

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	26APR2013 16:09:03
Data source version	GOMOS/6.01
Start time of products	08-01-2010 (08JAN2010 00:00:00)
Stop time of products	09-01-2010 (09JAN2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	381
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

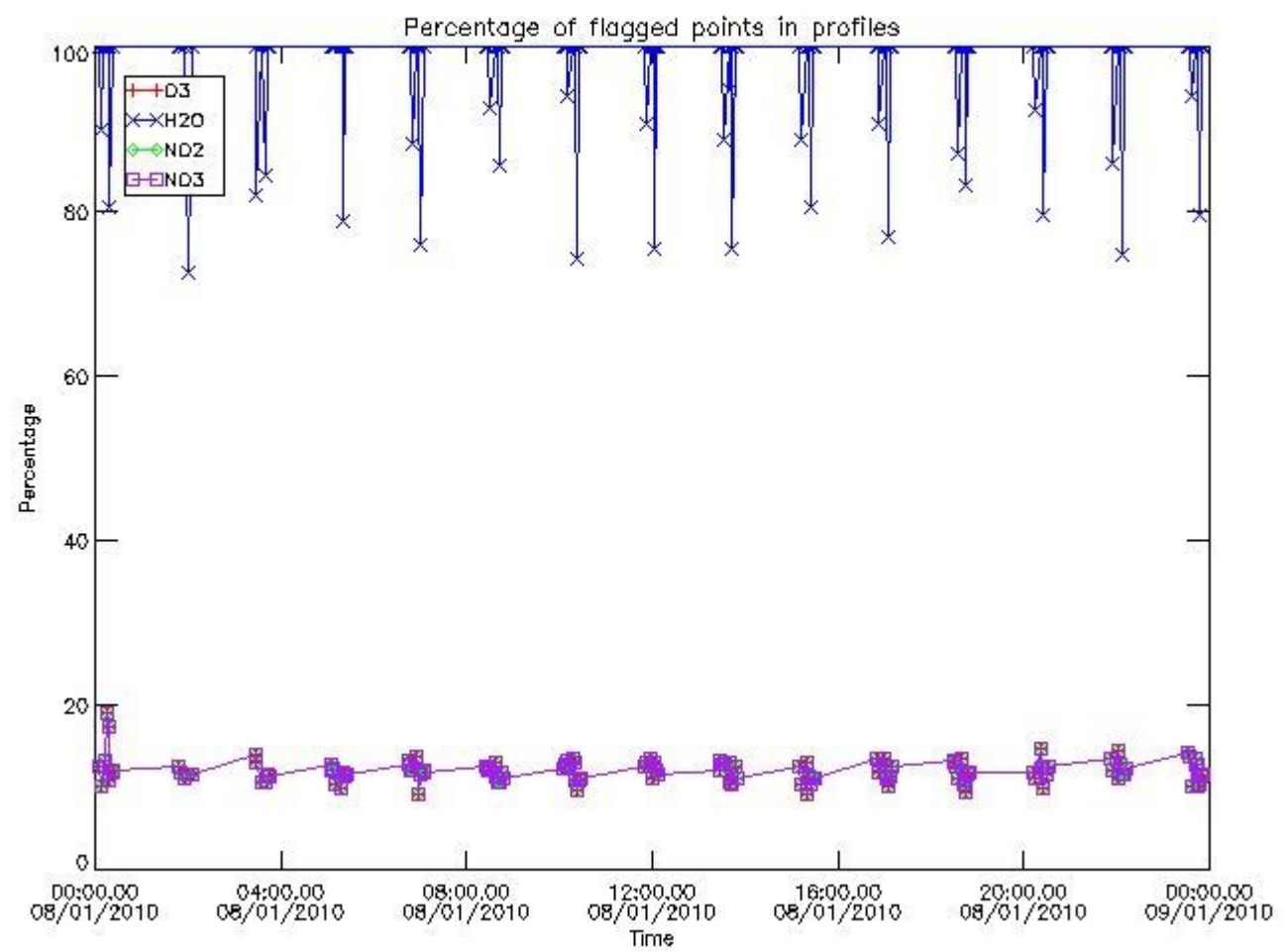
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100108_000514_000000412085_00445_41080_9061.N1	08-JAN-2010 00:05:14	Dark	41.000	95	Zet Cen	2.5450	26000.	82	41080	No
2	GOM_NL__2PRFIN20100108_000714_000000502085_00446_41081_9044.N1	08-JAN-2010 00:07:14	Dark	50.000	10	Bet Cen	0.61000	28000.	100	41081	No
3	GOM_NL__2PRFIN20100108_000935_000000412085_00446_41081_9045.N1	08-JAN-2010 00:09:35	Dark	40.500	20	Bet Cru	1.2530	30000.	81	41081	No
4	GOM_NL__2PRFIN20100108_001353_000000392085_00446_41081_9046.N1	08-JAN-2010 00:13:53	Dark	38.500	124	The Car	2.7640	30000.	77	41081	No
5	GOM_NL__2PRFIN20100108_001526_000000402085_00446_41081_9047.N1	08-JAN-2010 00:15:26	Dark	40.000	159	Ups Car	2.9200	7200.0	80	41081	No
6	GOM_NL__2PRFIN20100108_001714_000000442085_00446_41081_9048.N1	08-JAN-2010 00:17:14	Dark	44.000	71	lot Car	2.2460	7700.0	88	41081	No
7	GOM_NL__2PRFIN20100108_001839_000000472085_00446_41081_9049.N1	08-JAN-2010 00:18:39	Dark	46.500	41	Eps Car	1.8600	4100.0	93	41081	No
8	GOM_NL__2PRFIN20100108_002155_000000432085_00446_41081_9050.N1	08-JAN-2010 00:21:55	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	41081	No
9	GOM_NL__2PRFIN20100108_002406_000000422085_00446_41081_9051.N1	08-JAN-2010 00:24:06	Dark	42.000	70	Zet Pup	2.2460	39000.	84	41081	No
10	GOM_NL__2PRFIN20100108_002558_000000462085_00446_41081_9052.N1	08-JAN-2010 00:25:58	Straylight	46.000	117	Pi Pup	2.7060	3800.0	92	41081	No
11	GOM_NL__2PRFIN20100108_002838_000000442085_00446_41081_9053.N1	08-JAN-2010 00:28:38	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41081	No
12	GOM_NL__2PRFIN20100108_003006_000000422085_00446_41081_9054.N1	08-JAN-2010 00:30:06	Straylight	42.000	179	24Omi2CMa	3.0320	24000.	84	41081	No
13	GOM_NL__2PRFIN20100108_003225_000000462085_00446_41081_9055.N1	08-JAN-2010 00:32:25	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	41081	No
14	GOM_NL__2PRFIN20100108_003943_000000532085_00446_41081_9056.N1	08-JAN-2010 00:39:43	Twi_and_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	41081	No
15	GOM_NL__2PRFIN20100108_004234_000000482085_00446_41081_9057.N1	08-JAN-2010 00:42:34	Twi_and_stray	47.500	44	24Gam Gem	1.9280	11000.	95	41081	No
16	GOM_NL__2PRFIN20100108_004415_000000452085_00446_41081_9058.N1	08-JAN-2010 00:44:15	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	41081	No
17	GOM_NL__2PRFIN20100108_004547_000000392085_00446_41081_9059.N1	08-JAN-2010 00:45:47	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	41081	No
18	GOM_NL__2PRFIN20100108_005032_000000392085_00446_41081_9060.N1	08-JAN-2010 00:50:32	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	41081	No
19	GOM_NL__2PRFIN20100108_010256_000000332085_00446_41081_9061.N1	08-JAN-2010 01:02:56	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41081	No
20	GOM_NL__2PRFIN20100108_012756_000000572085_00446_41081_9062.N1	08-JAN-2010 01:27:56	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	41081	No
21	GOM_NL__2PRFIN20100108_013010_000000532085_00446_41081_9063.N1	08-JAN-2010 01:30:10	Bright	52.500	120	1Del Oph	2.7340	3200.0	105	41081	No
22	GOM_NL__2PRFIN20100108_013538_000000422085_00446_41081_9064.N1	08-JAN-2010 01:35:38	Twi_and_stray	41.500	80	7Del Sco	2.3160	30000.	83	41081	No
23	GOM_NL__2PRFIN20100108_014750_000000412085_00447_41082_9053.N1	08-JAN-2010 01:47:50	Dark	40.500	10	Bet Cen	0.61000	28000.	81	41082	No
24	GOM_NL__2PRFIN20100108_015011_000000432085_00447_41082_9054.N1	08-JAN-2010 01:50:11	Dark	43.000	20	Bet Cru	1.2530	30000.	86	41082	No
25	GOM_NL__2PRFIN20100108_015552_000000462085_00447_41082_9055.N1	08-JAN-2010 01:55:52	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	41082	No
26	GOM_NL__2PRFIN20100108_015916_000000442085_00447_41082_9056.N1	08-JAN-2010 01:59:16	Dark	44.000	41	Eps Car	1.8600	4100.0	88	41082	No
27	GOM_NL__2PRFIN20100108_020442_000000452085_00447_41082_9057.N1	08-JAN-2010 02:04:42	Dark	44.500	70	Zet Pup	2.2460	39000.	89	41082	No
28	GOM_NL__2PRFIN20100108_020634_000000462085_00447_41082_9058.N1	08-JAN-2010 02:06:34	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	41082	No
29	GOM_NL__2PRFIN20100108_020914_000000452085_00447_41082_9059.N1	08-JAN-2010 02:09:14	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	41082	No
30	GOM_NL__2PRFIN20100108_021042_000000412085_00447_41082_9060.N1	08-JAN-2010 02:10:42	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	41082	No
31	GOM_NL__2PRFIN20100108_021301_000000482085_00447_41082_9061.N1	08-JAN-2010 02:13:01	Straylight	47.500	1	9Alp CMa	-1.4400	11000.	95	41082	No
32	GOM_NL__2PRFIN20100108_022019_000000492085_00447_41082_9062.N1	08-JAN-2010 02:20:19	Twi_and_stray	48.500	14	58Alp Ori	0.87000	3000.0	97	41082	No
33	GOM_NL__2PRFIN20100108_022310_000000472085_00447_41082_9063.N1	08-JAN-2010 02:23:10	Twi_and_stray	47.000	44	24Gam Gem	1.9280	11000.	94	41082	No
34	GOM_NL__2PRFIN20100108_022451_000000452085_00447_41082_9064.N1	08-JAN-2010 02:24:51	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	41082	No
35	GOM_NL__2PRFIN20100108_022623_000000392085_00447_41082_9065.N1	08-JAN-2010 02:26:23	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	41082	No
36	GOM_NL__2PRFIN20100108_023108_000000372085_00447_41082_9066.N1	08-JAN-2010 02:31:08	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	41082	No
37	GOM_NL__2PRFIN20100108_024331_000000332085_00447_41082_9067.N1	08-JAN-2010 02:43:31	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41082	No
38	GOM_NL__2PRFIN20100108_030025_000000522085_00447_41082_9068.N1	08-JAN-2010 03:00:25	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	41082	No
39	GOM_NL__2PRFIN20100108_030233_000000382085_00447_41082_9069.N1	08-JAN-2010 03:02:33	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	41082	No
40	GOM_NL__2PRFIN20100108_030832_000000572085_00447_41082_9070.N1	08-JAN-2010 03:08:32	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	41082	No
41	GOM_NL__2PRFIN20100108_031046_000000532085_00447_41082_9071.N1	08-JAN-2010 03:10:46	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	41082	No
42	GOM_NL__2PRFIN20100108_031354_000000472085_00447_41082_9072.N1	08-JAN-2010 03:13:54	Bright	47.000	104	27Bet Lib	2.6140	13100.	94	41082	No

338	GOM_NL__2PRFIN20100108_212703_000000432085_00458_41093_9200.N1	08-JAN-2010 21:27:03	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	41093	No
339	GOM_NL__2PRFIN20100108_212910_000000592085_00458_41093_9201.N1	08-JAN-2010 21:29:10	Bright	59.000	67	5Alp CrB	2.2210	11000.	118	41093	No
340	GOM_NL__2PRFIN20100108_213512_000000572085_00458_41093_9202.N1	08-JAN-2010 21:35:12	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	41093	No
341	GOM_NL__2PRFIN20100108_214037_000000462085_00458_41093_9203.N1	08-JAN-2010 21:40:37	Twi_and_stray	45.500	104	27Bet Lib	2.6140	13100.	91	41093	No
342	GOM_NL__2PRFIN20100108_214253_000000442085_00458_41093_9204.N1	08-JAN-2010 21:42:53	Twi_and_stray	44.000	80	7Del Sco	2.3160	30000.	88	41093	No
343	GOM_NL__2PRFIN20100108_215124_000000382085_00458_41093_9205.N1	08-JAN-2010 21:51:24	Dark	37.500	78	Alp Lup	2.3040	28000.	75	41093	No
344	GOM_NL__2PRFIN20100108_215311_000000432085_00458_41093_9206.N1	08-JAN-2010 21:53:11	Dark	42.500	95	Zet Cen	2.5450	26000.	85	41093	No
345	GOM_NL__2PRFIN20100108_215507_000000432085_00459_41094_9189.N1	08-JAN-2010 21:55:07	Dark	42.500	10	Bet Cen	0.61000	28000.	85	41094	No
346	GOM_NL__2PRFIN20100108_220147_000000392085_00459_41094_9190.N1	08-JAN-2010 22:01:47	Dark	39.000	124	The Car	2.7640	30000.	78	41094	No
347	GOM_NL__2PRFIN20100108_220313_000000502085_00459_41094_9191.N1	08-JAN-2010 22:03:13	Dark	50.000	113	Mu Vel	2.6920	5000.0	100	41094	No
348	GOM_NL__2PRFIN20100108_220507_000000402085_00459_41094_9192.N1	08-JAN-2010 22:05:07	Dark	40.000	71	lot Car	2.2460	7700.0	80	41094	No
349	GOM_NL__2PRFIN20100108_220632_000000442085_00459_41094_9193.N1	08-JAN-2010 22:06:32	Dark	44.000	41	Eps Car	1.8600	4100.0	88	41094	No
350	GOM_NL__2PRFIN20100108_220948_000000442085_00459_41094_9194.N1	08-JAN-2010 22:09:48	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	41094	No
351	GOM_NL__2PRFIN20100108_221159_000000462085_00459_41094_9195.N1	08-JAN-2010 22:11:59	Dark	46.000	70	Zet Pup	2.2460	39000.	92	41094	No
352	GOM_NL__2PRFIN20100108_221349_000000452085_00459_41094_9196.N1	08-JAN-2010 22:13:49	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	41094	No
353	GOM_NL__2PRFIN20100108_221628_000000442085_00459_41094_9197.N1	08-JAN-2010 22:16:28	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41094	No
354	GOM_NL__2PRFIN20100108_221756_000000432085_00459_41094_9198.N1	08-JAN-2010 22:17:56	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	41094	No
355	GOM_NL__2PRFIN20100108_222014_000000432085_00459_41094_9199.N1	08-JAN-2010 22:20:14	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	41094	No
356	GOM_NL__2PRFIN20100108_222731_000000472085_00459_41094_9200.N1	08-JAN-2010 22:27:31	Twi_and_stray	46.500	14	58Alp Ori	0.87000	3000.0	93	41094	No
357	GOM_NL__2PRFIN20100108_223019_000000442085_00459_41094_9201.N1	08-JAN-2010 22:30:19	Twi_and_stray	43.500	44	24Gam Gem	1.9280	11000.	87	41094	No
358	GOM_NL__2PRFIN20100108_223200_000000452085_00459_41094_9202.N1	08-JAN-2010 22:32:00	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	41094	No
359	GOM_NL__2PRFIN20100108_223334_000000382085_00459_41094_9203.N1	08-JAN-2010 22:33:34	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	41094	No
360	GOM_NL__2PRFIN20100108_223605_000000362085_00459_41094_9204.N1	08-JAN-2010 22:36:05	Bright	36.000	107	37The Aur	2.6490	11000.	72	41094	No
361	GOM_NL__2PRFIN20100108_223818_000000382085_00459_41094_9205.N1	08-JAN-2010 22:38:18	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	41094	No
362	GOM_NL__2PRFIN20100108_225043_000000372085_00459_41094_9206.N1	08-JAN-2010 22:50:43	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	41094	No
363	GOM_NL__2PRFIN20100108_225456_000000362085_00459_41094_9207.N1	08-JAN-2010 22:54:56	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	41094	No
364	GOM_NL__2PRFIN20100108_225903_000000382085_00459_41094_9208.N1	08-JAN-2010 22:59:03	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	41094	No
365	GOM_NL__2PRFIN20100108_230738_000000362085_00459_41094_9209.N1	08-JAN-2010 23:07:38	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	41094	No
366	GOM_NL__2PRFIN20100108_231548_000000572085_00459_41094_9210.N1	08-JAN-2010 23:15:48	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	41094	No
367	GOM_NL__2PRFIN20100108_231801_000000532085_00459_41094_9211.N1	08-JAN-2010 23:18:01	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	41094	No
368	GOM_NL__2PRFIN20100108_232113_000000442085_00459_41094_9212.N1	08-JAN-2010 23:21:13	Twi_and_stray	44.000	104	27Bet Lib	2.6140	13100.	88	41094	No
369	GOM_NL__2PRFIN20100108_232330_000000422085_00459_41094_9213.N1	08-JAN-2010 23:23:30	Twi_and_stray	42.000	80	7Del Sco	2.3160	30000.	84	41094	No
370	GOM_NL__2PRFIN20100108_233200_000000402085_00459_41094_9214.N1	08-JAN-2010 23:32:00	Dark	39.500	78	Alp Lup	2.3040	28000.	79	41094	No
371	GOM_NL__2PRFIN20100108_233347_000000412085_00459_41094_9215.N1	08-JAN-2010 23:33:47	Dark	40.500	95	Zet Cen	2.5450	26000.	81	41094	No
372	GOM_NL__2PRFIN20100108_233543_000000512085_00460_41095_9198.N1	08-JAN-2010 23:35:43	Dark	50.500	10	Bet Cen	0.61000	28000.	101	41095	No
373	GOM_NL__2PRFIN20100108_234223_000000382085_00460_41095_9199.N1	08-JAN-2010 23:42:23	Dark	38.000	124	The Car	2.7640	30000.	76	41095	No
374	GOM_NL__2PRFIN20100108_234350_000000512085_00460_41095_9200.N1	08-JAN-2010 23:43:50	Dark	50.500	113	Mu Vel	2.6920	5000.0	101	41095	No
375	GOM_NL__2PRFIN20100108_234544_000000402085_00460_41095_9201.N1	08-JAN-2010 23:45:44	Dark	40.000	71	lot Car	2.2460	7700.0	80	41095	No
376	GOM_NL__2PRFIN20100108_234708_000000492085_00460_41095_9202.N1	08-JAN-2010 23:47:08	Dark	49.000	41	Eps Car	1.8600	4100.0	98	41095	No
377	GOM_NL__2PRFIN20100108_235025_000000452085_00460_41095_9203.N1	08-JAN-2010 23:50:25	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	41095	No
378	GOM_NL__2PRFIN20100108_235235_000000442085_00460_41095_9204.N1	08-JAN-2010 23:52:35	Dark	44.000	70	Zet Pup	2.2460	39000.	88	41095	No
379	GOM_NL__2PRFIN20100108_235425_000000442085_00460_41095_9205.N1	08-JAN-2010 23:54:25	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	41095	No
380	GOM_NL__2PRFIN20100108_235704_000000442085_00460_41095_9206.N1	08-JAN-2010 23:57:04	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41095	No
381	GOM_NL__2PRFIN20100108_235832_000000432085_00460_41095_9207.N1	08-JAN-2010 23:58:32	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	41095	No

3. Quality information per product

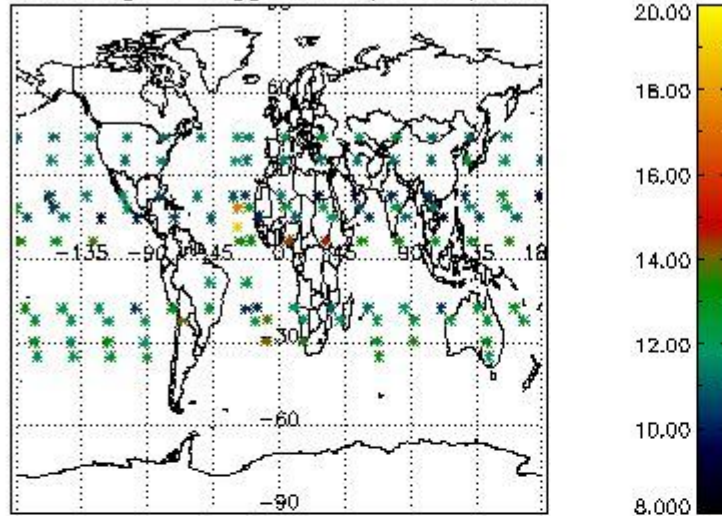
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

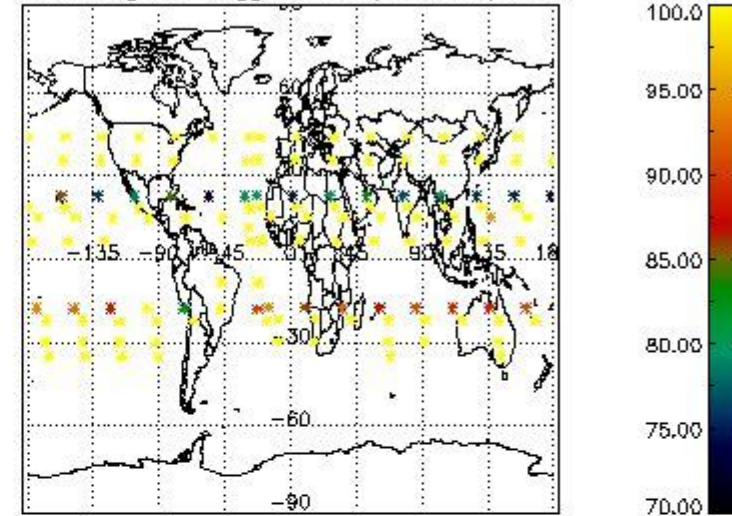


3.2 Plot quality information per product (world map)

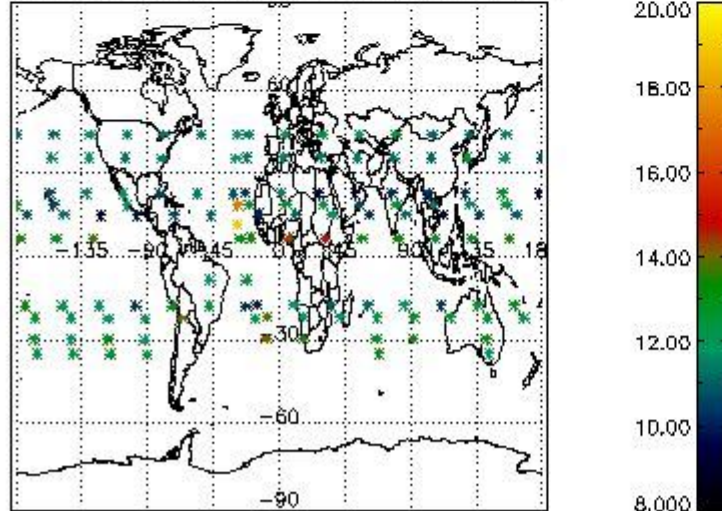
Percentage of flagged data per O3 profile



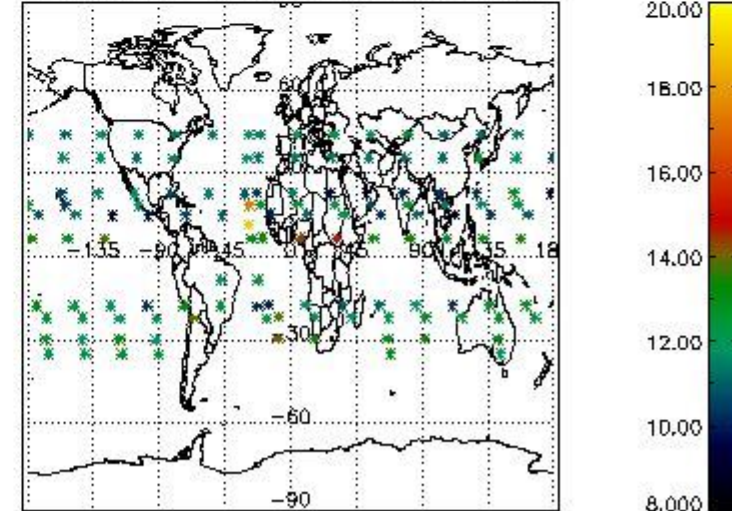
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

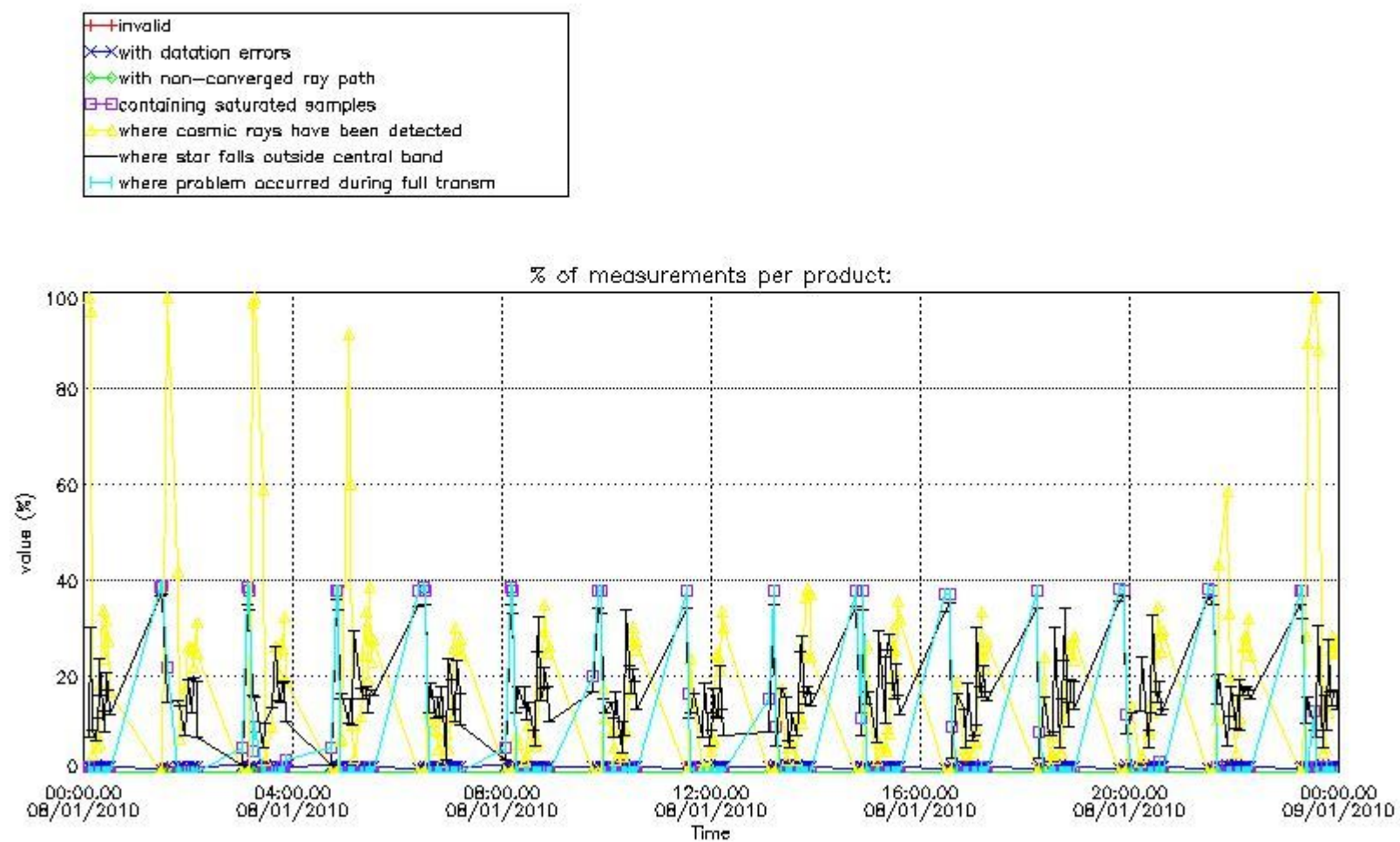


4. Level 1 quality information per product

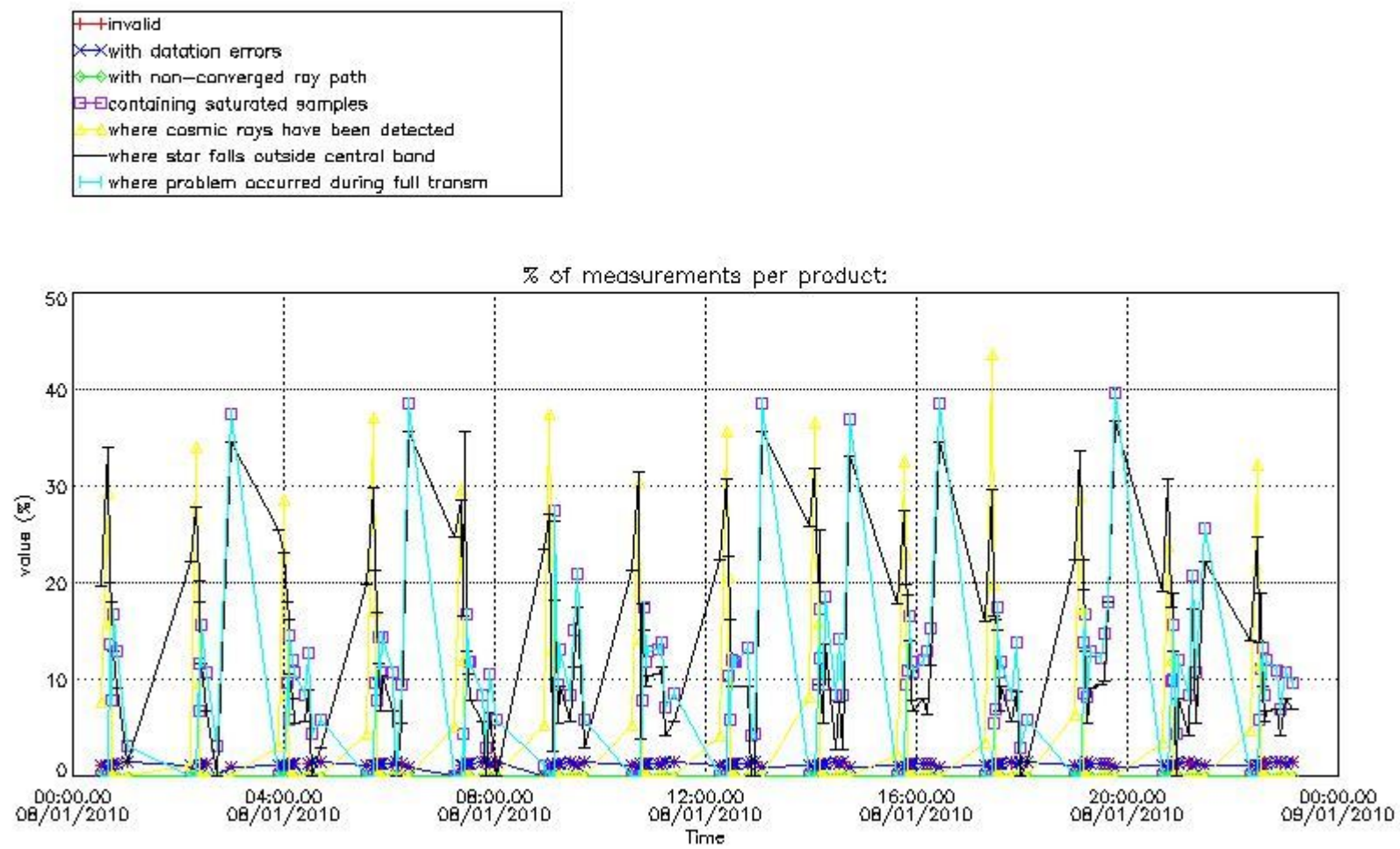
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

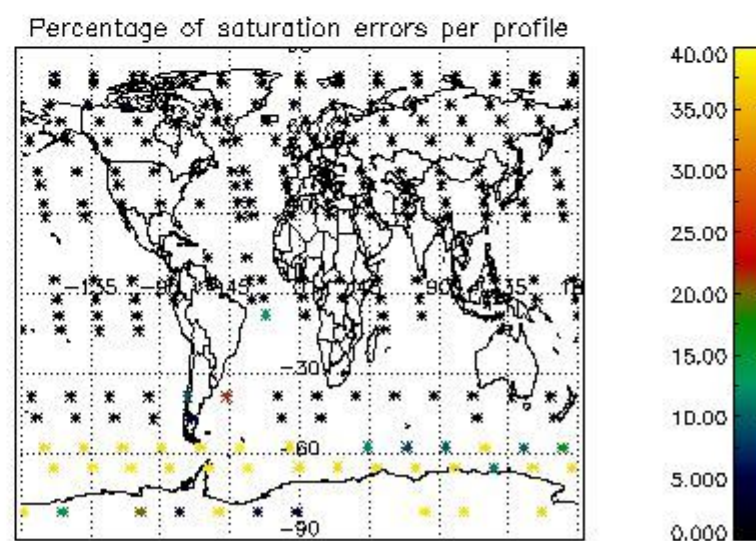
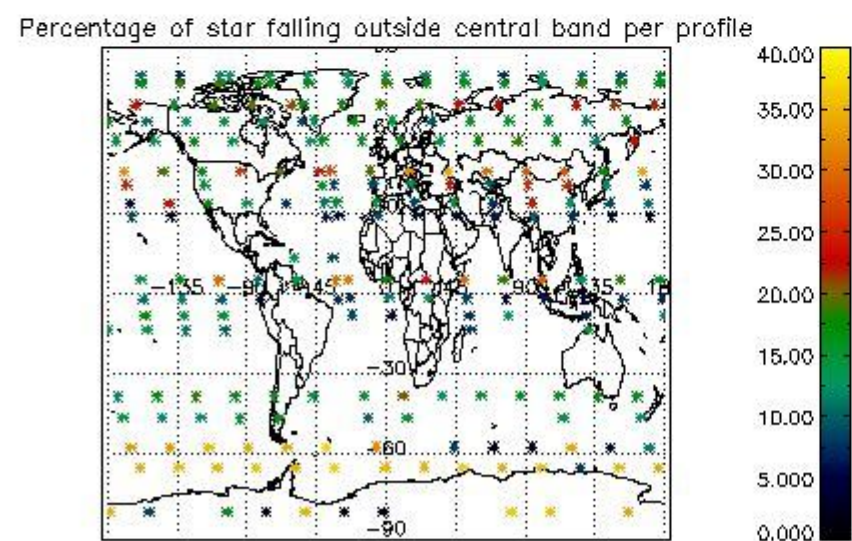
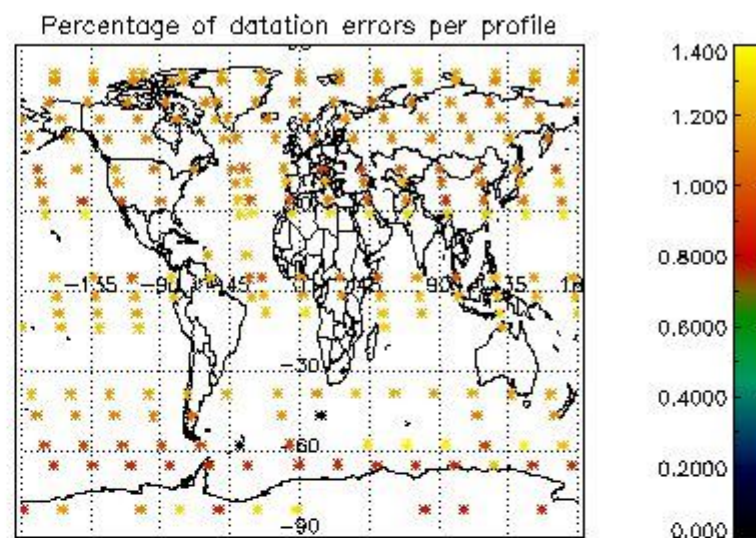
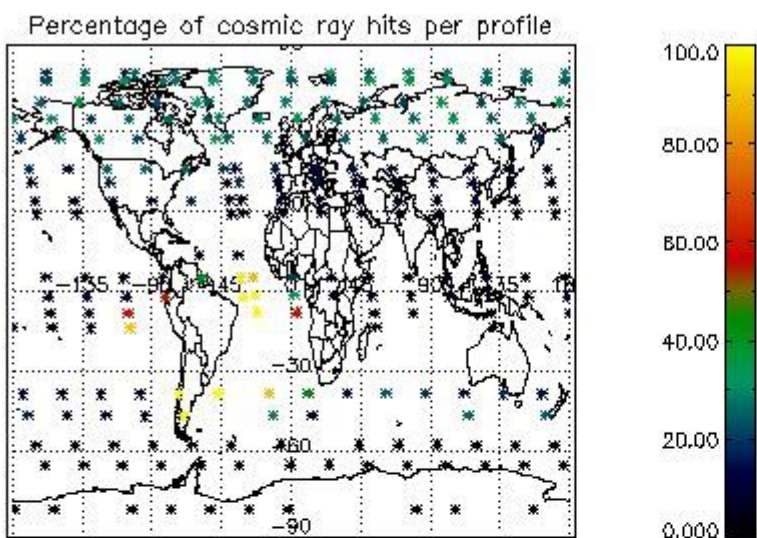


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

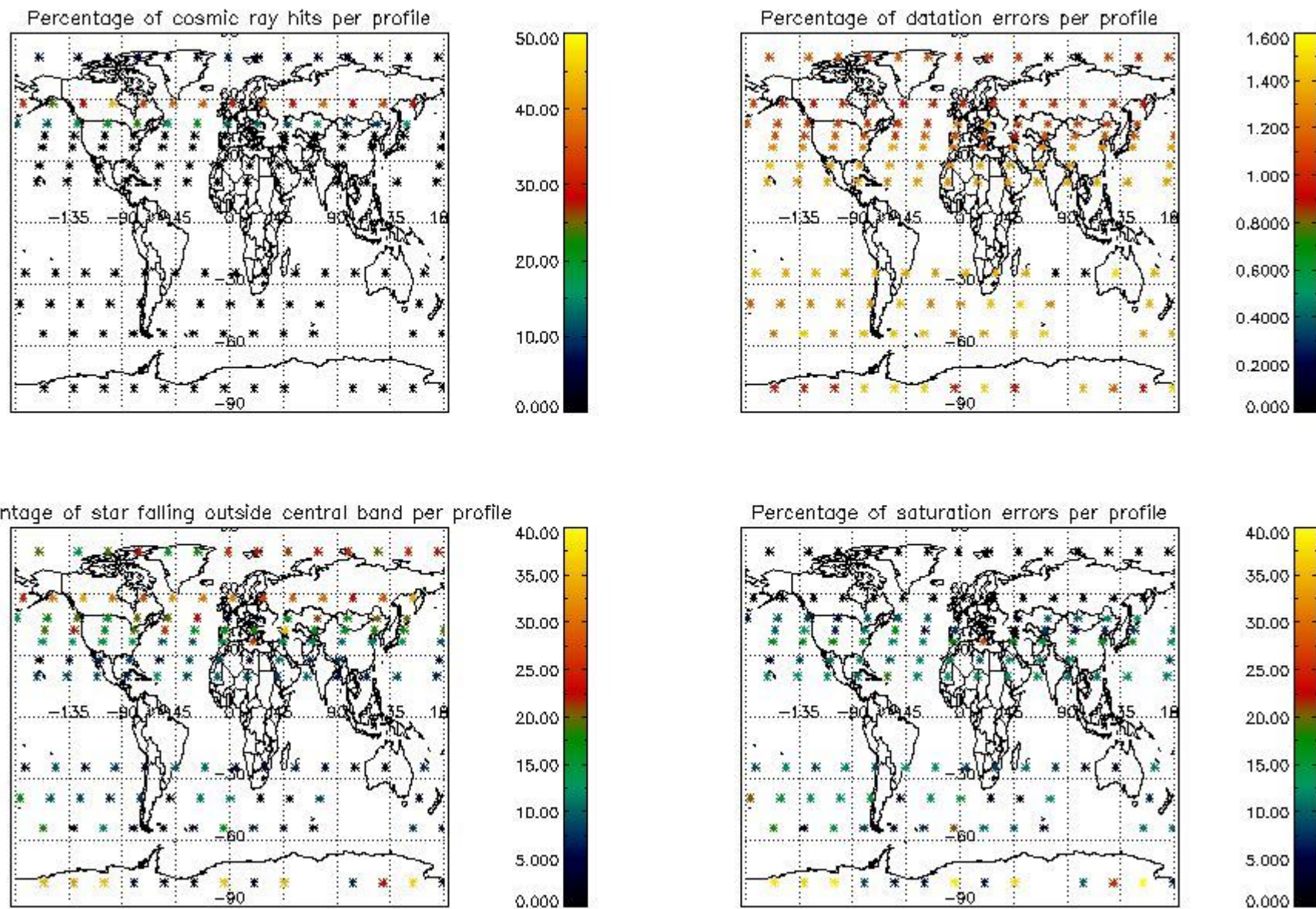


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

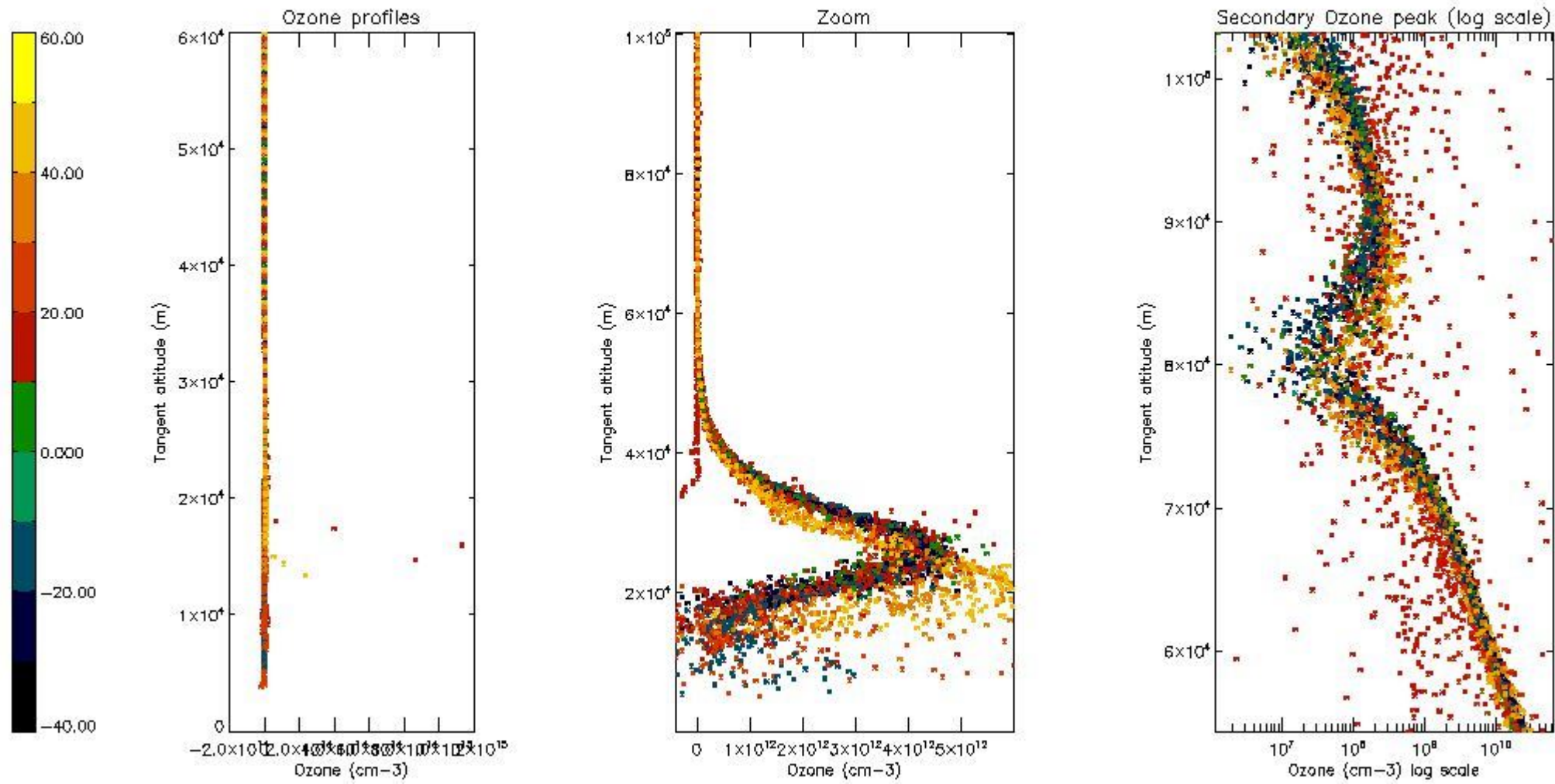
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	19

STD < 10	15
STD < 5	10

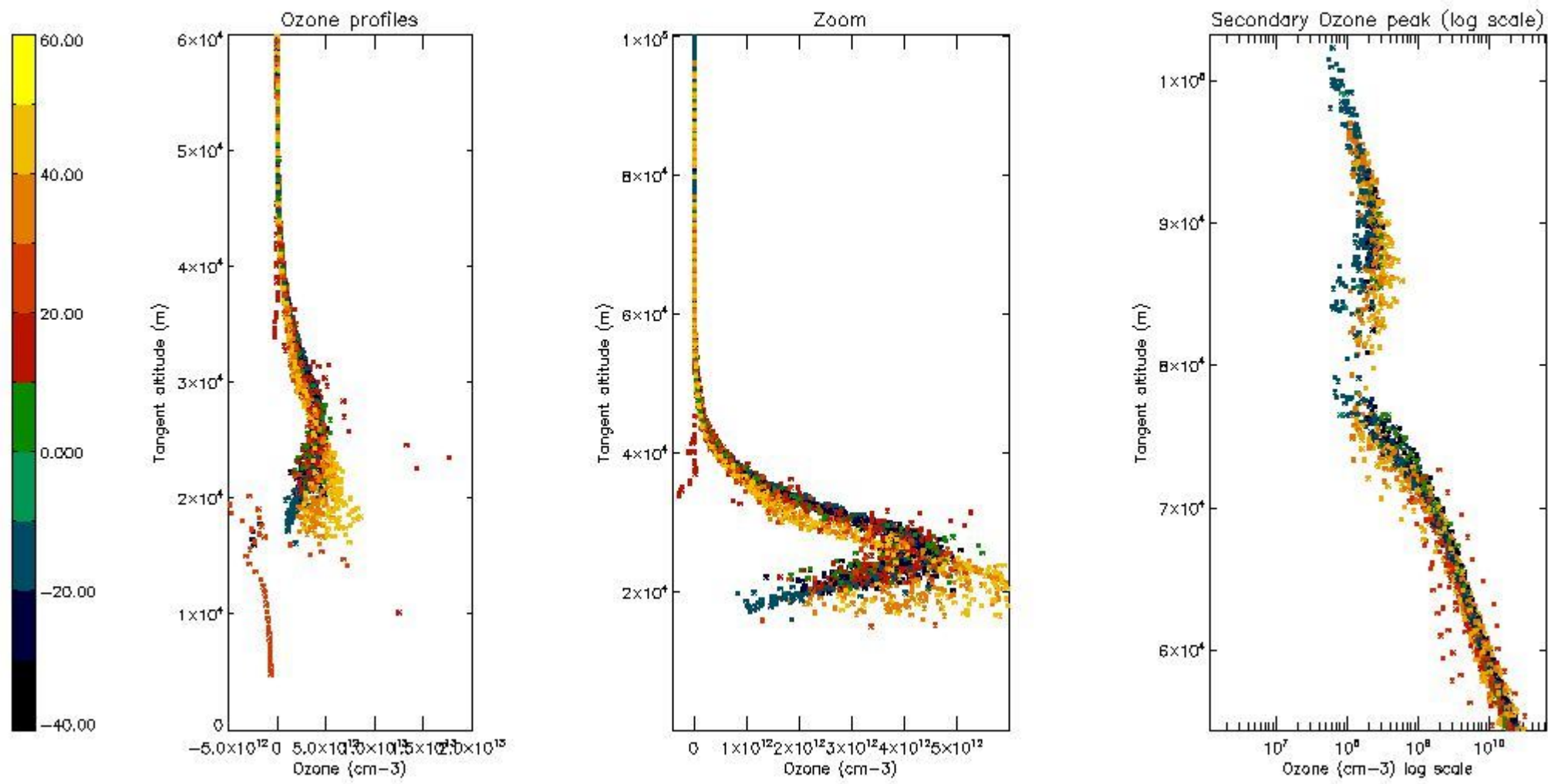
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



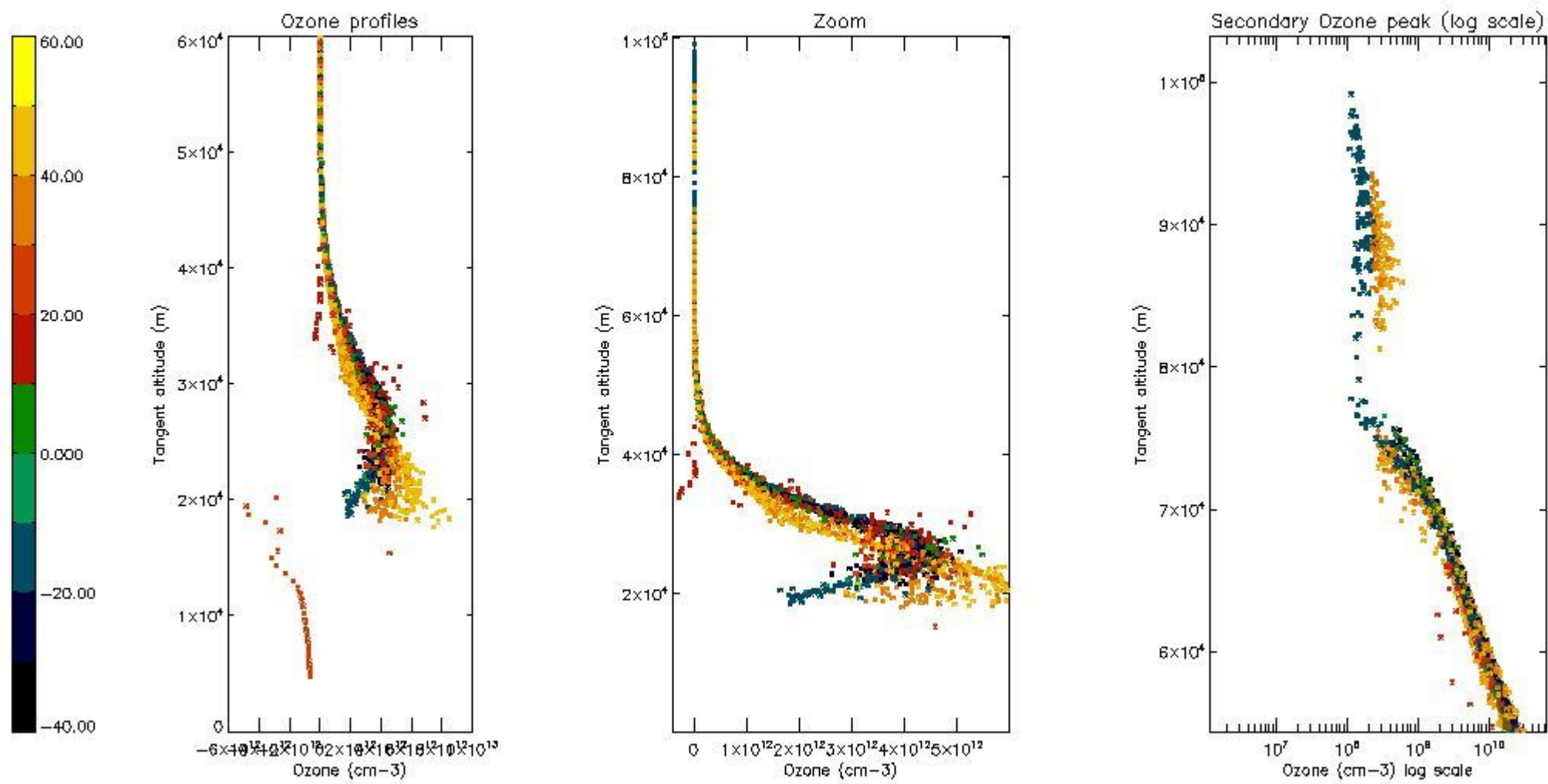
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



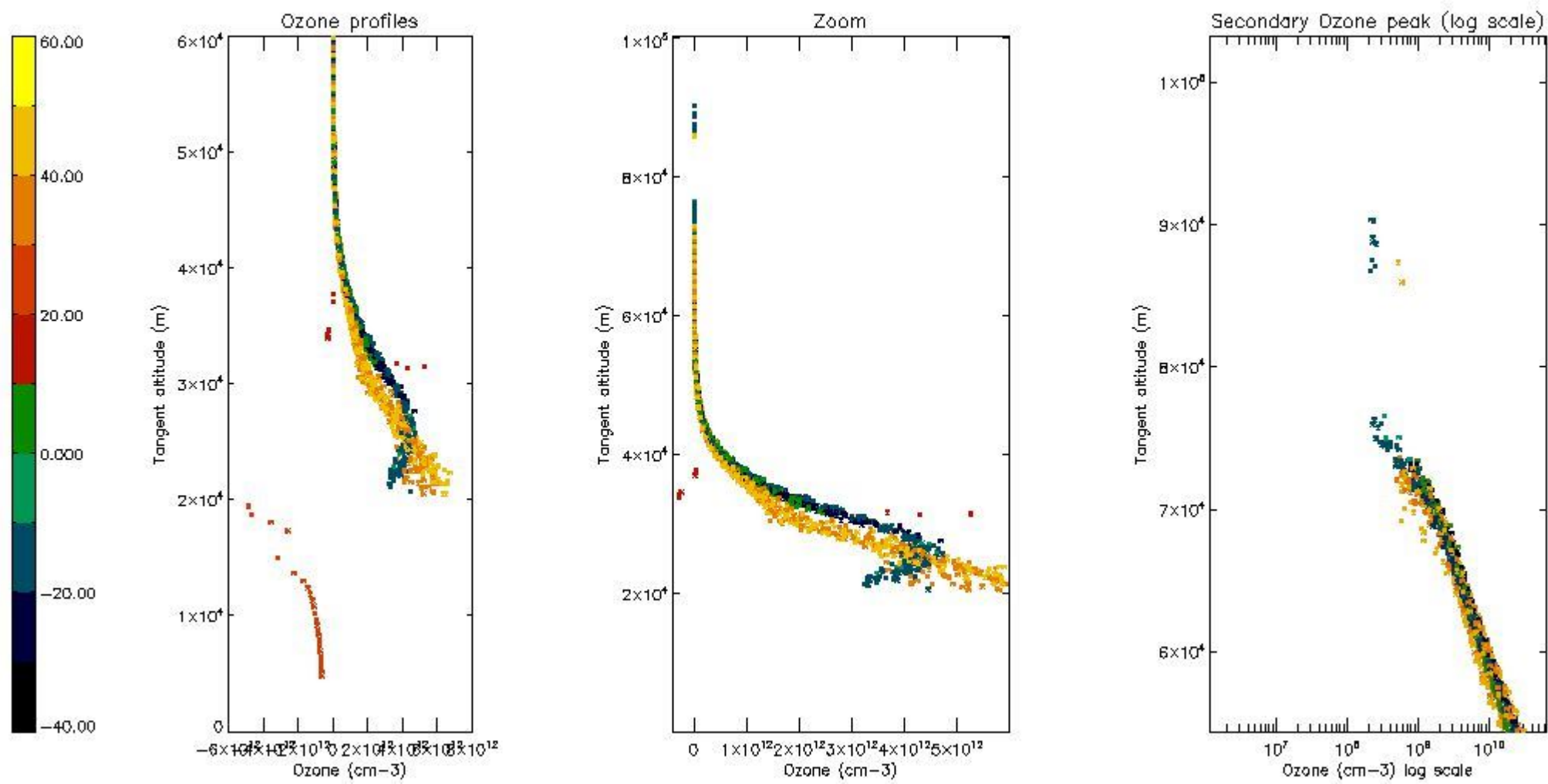
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



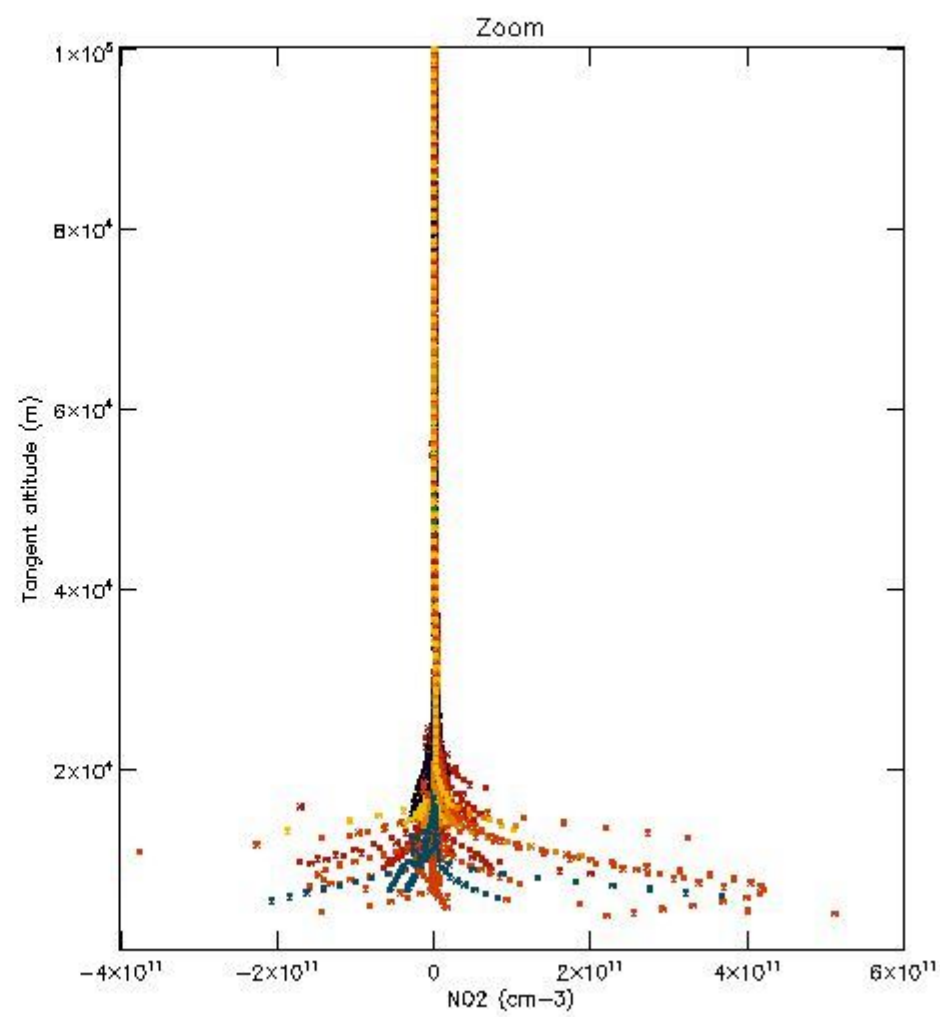
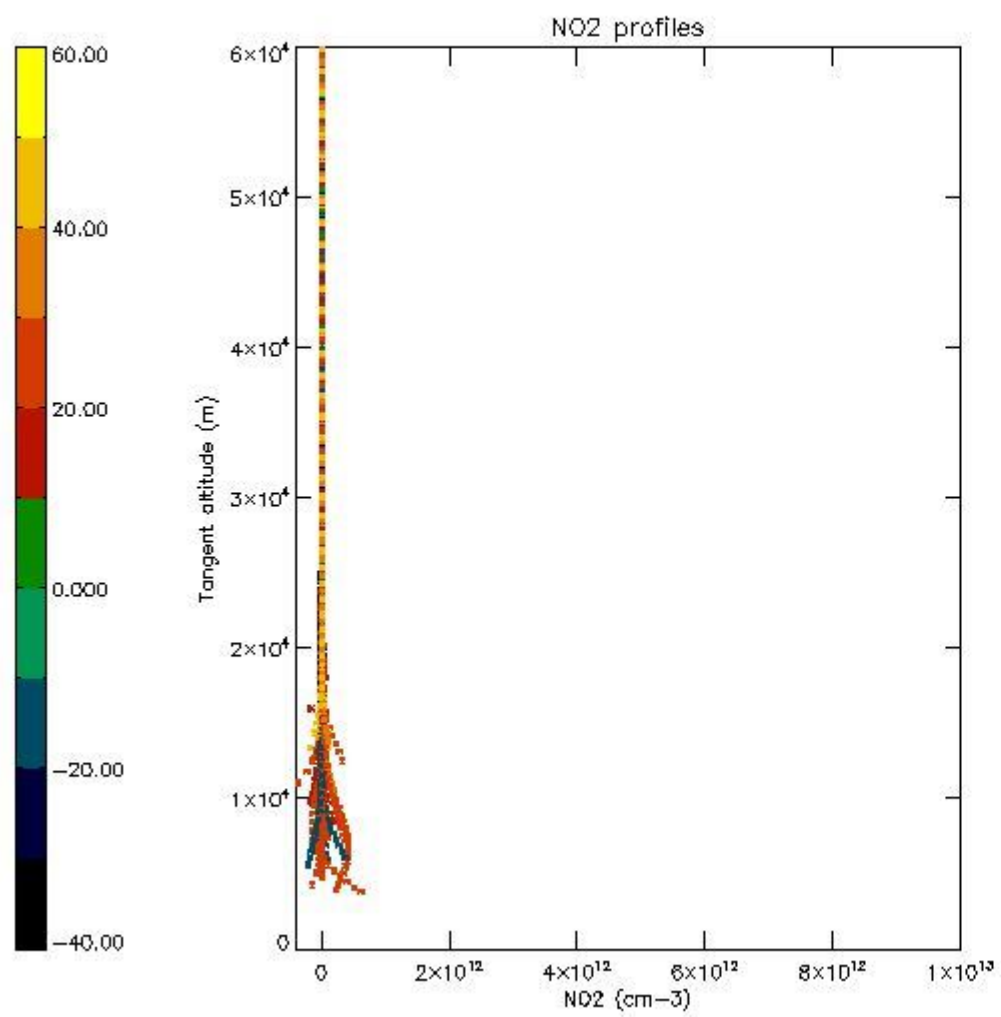
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



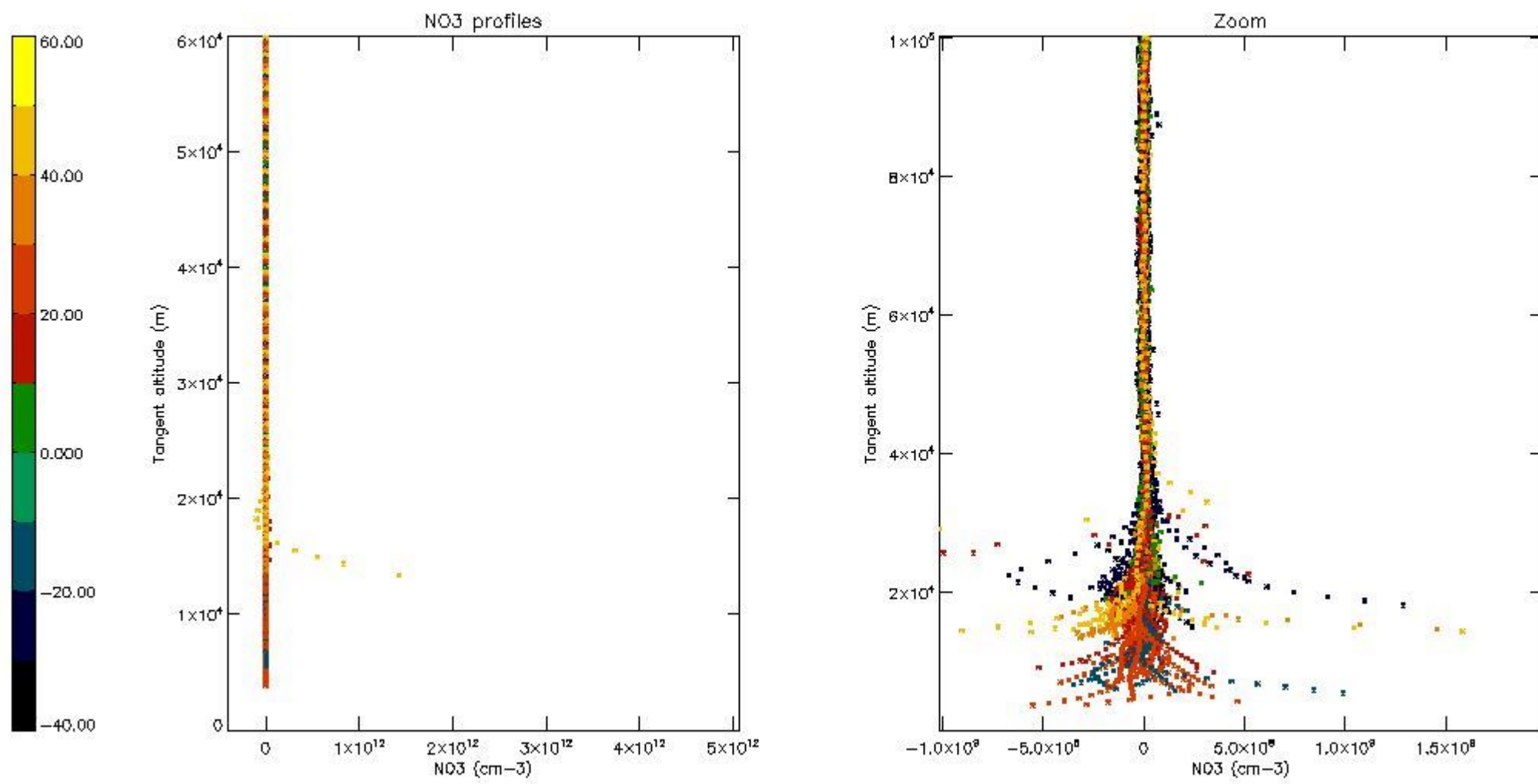
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



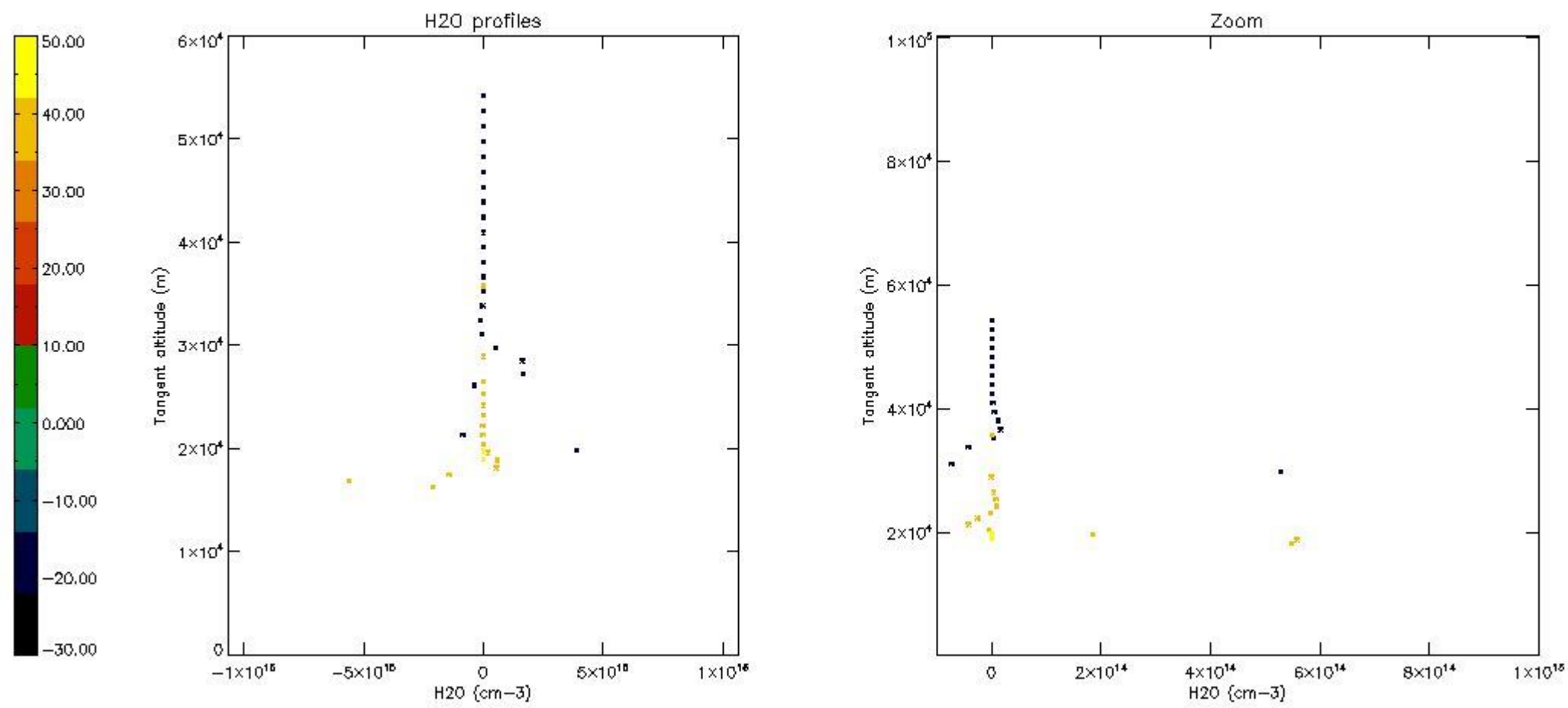
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-JAN-2010 00:05:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2010 00:05:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2010 00:05:14

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

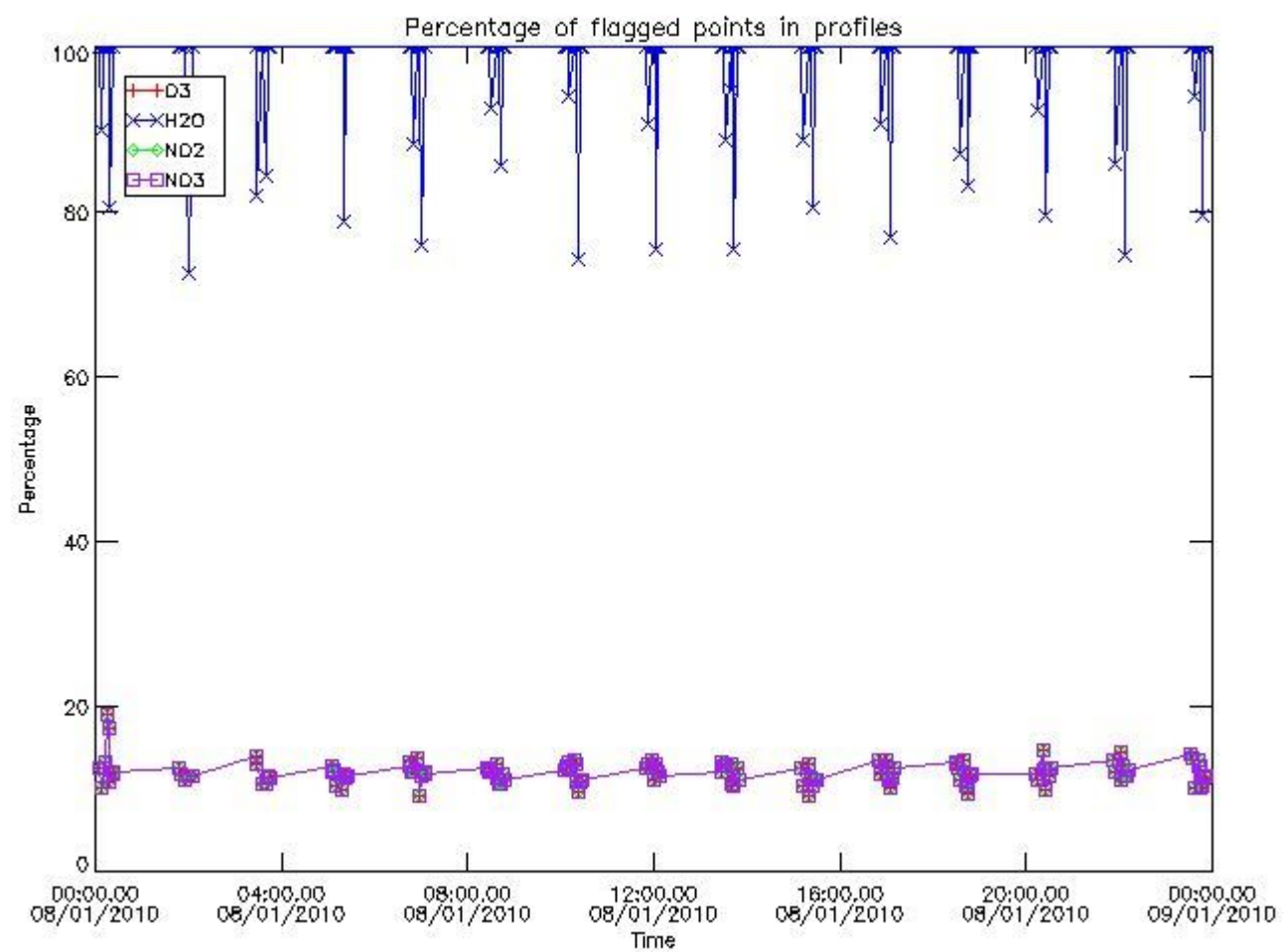
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

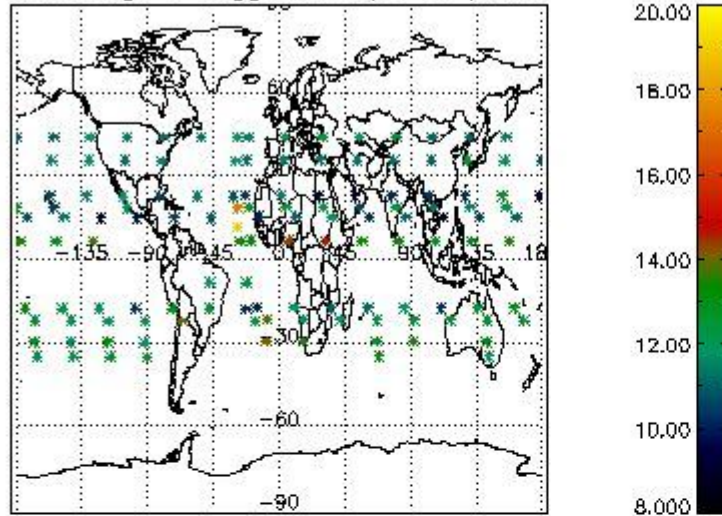
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

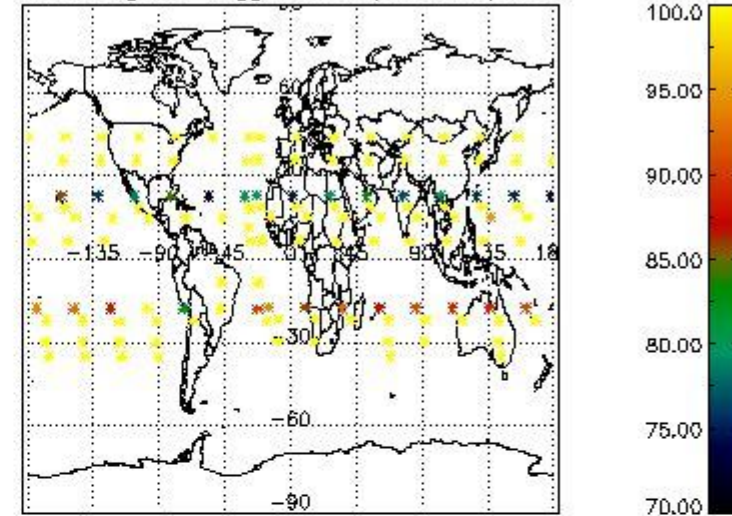


3.2 Plot quality information per product (world map)

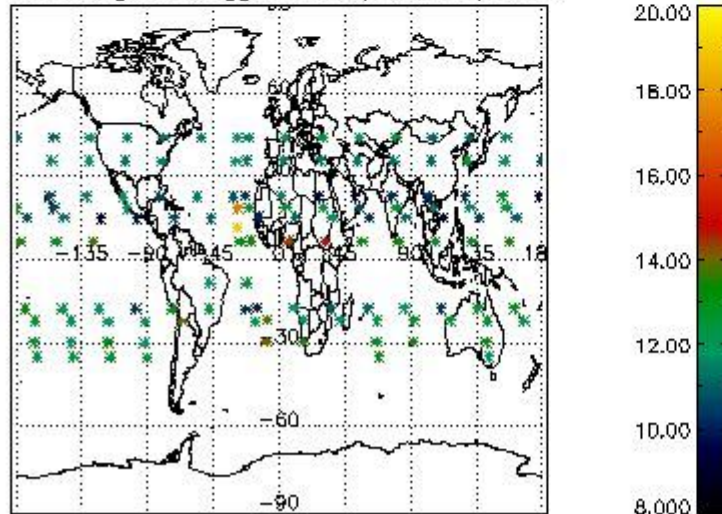
Percentage of flagged data per O3 profile



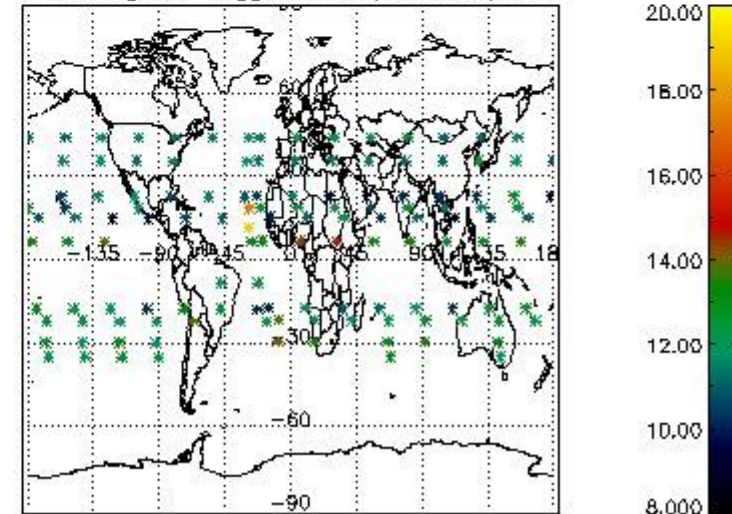
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

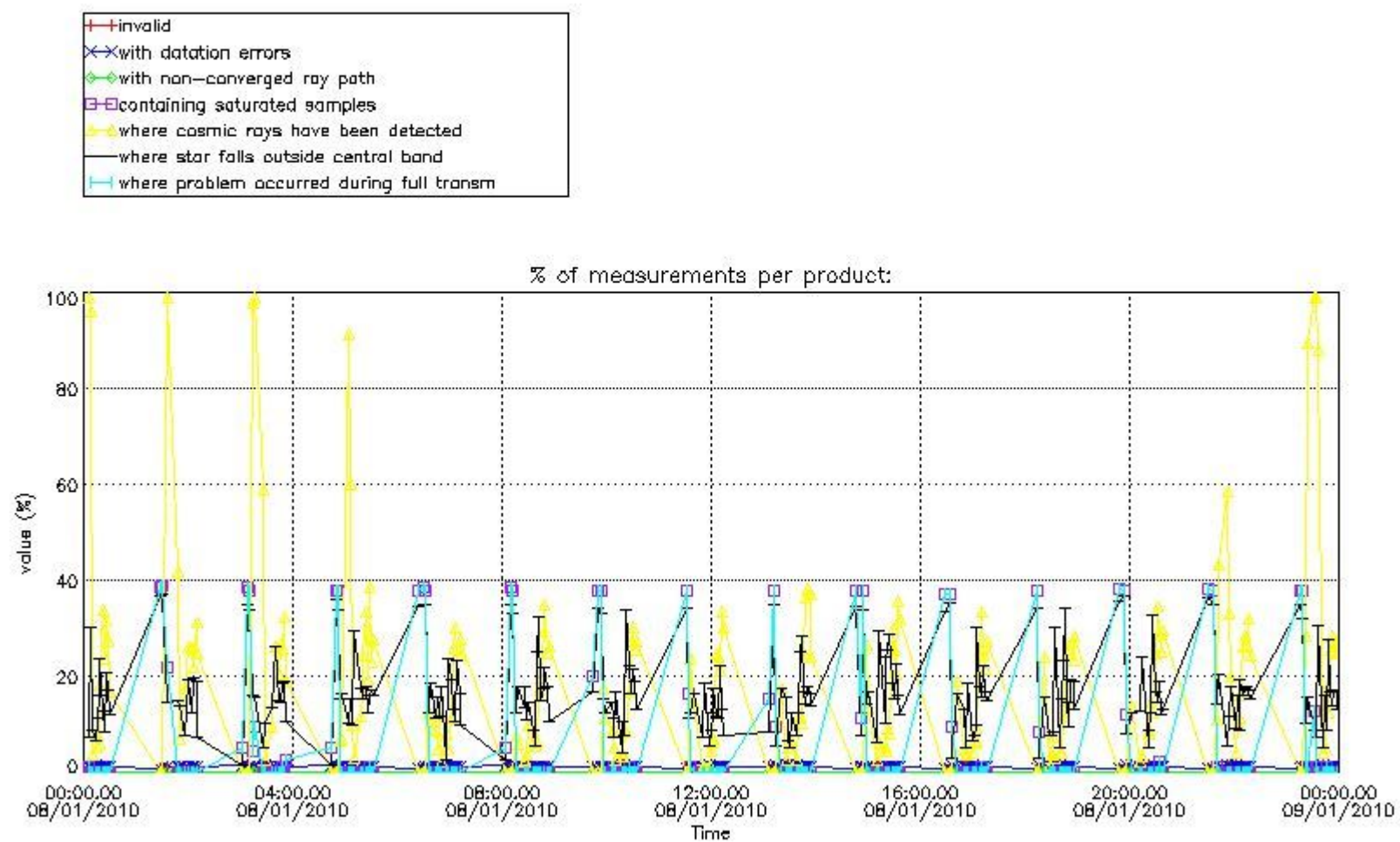


4. Level 1 quality information per product

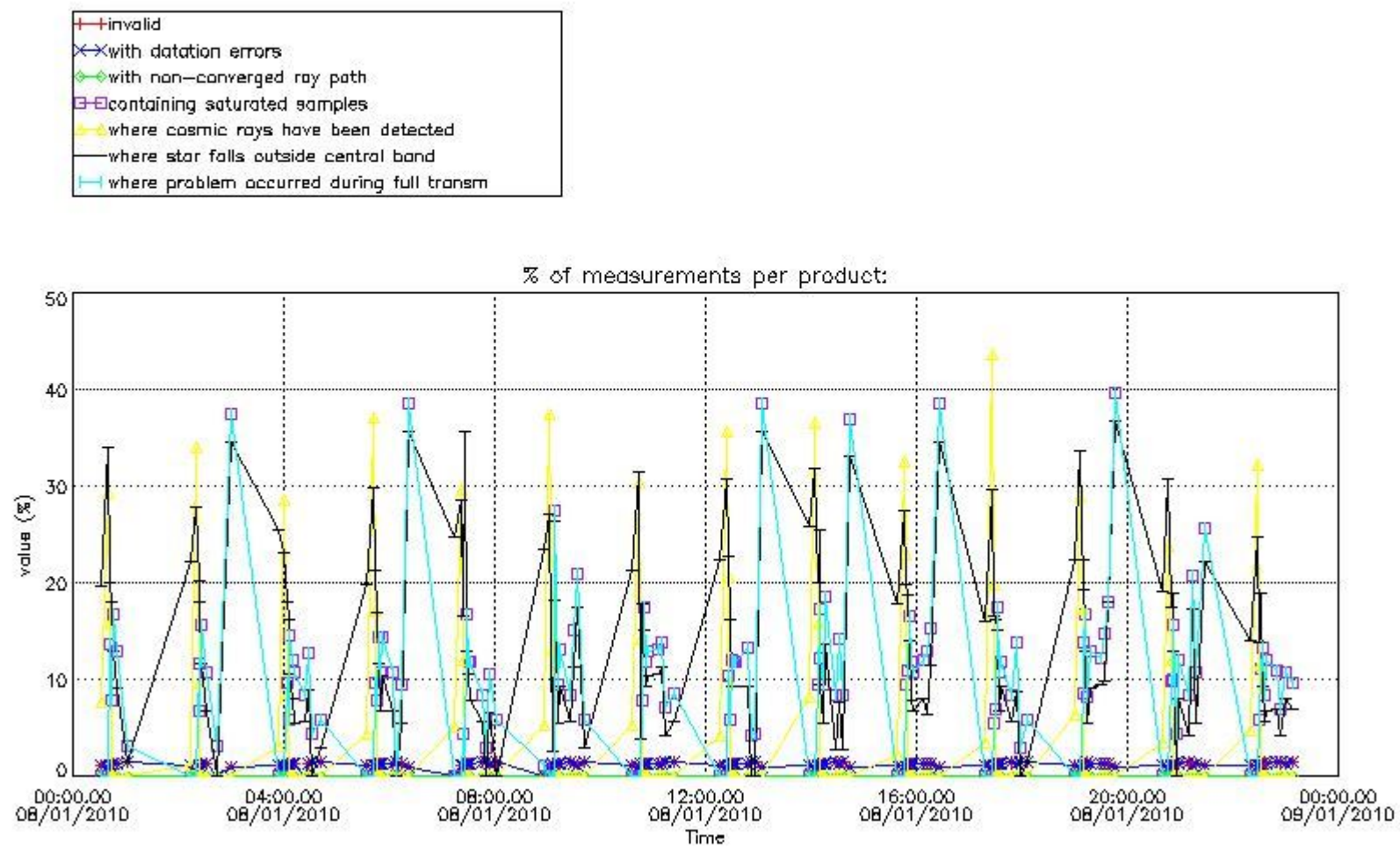
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

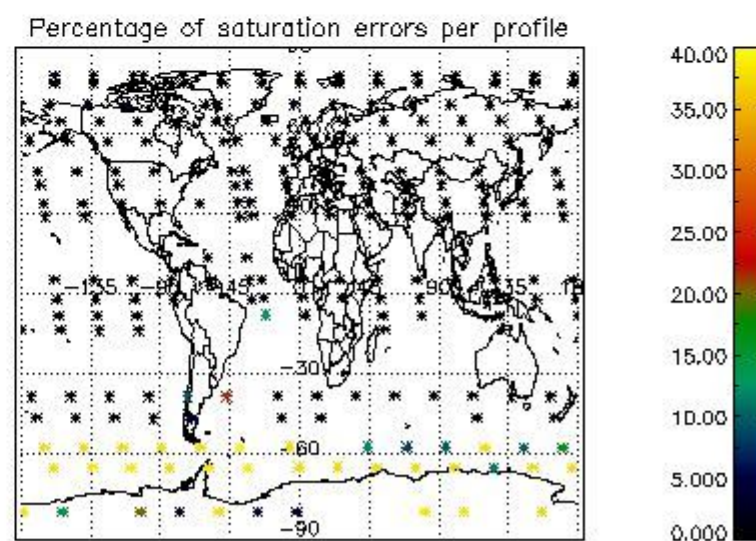
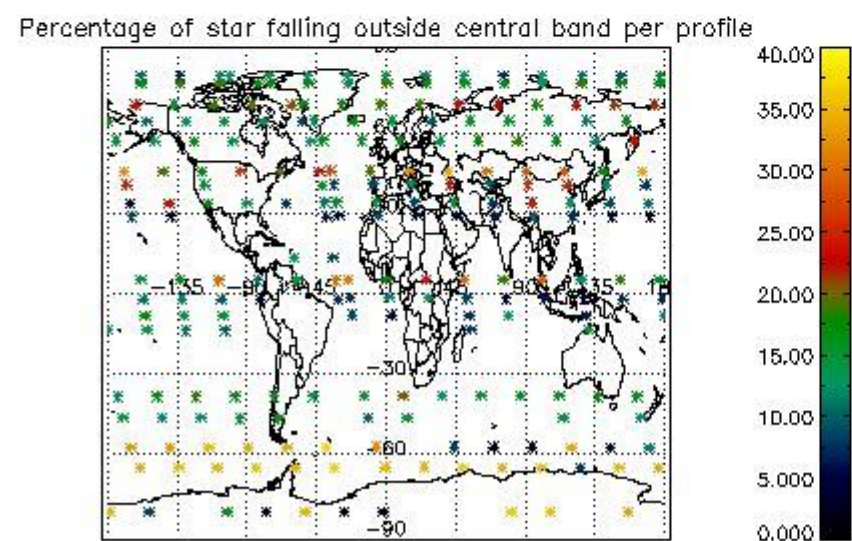
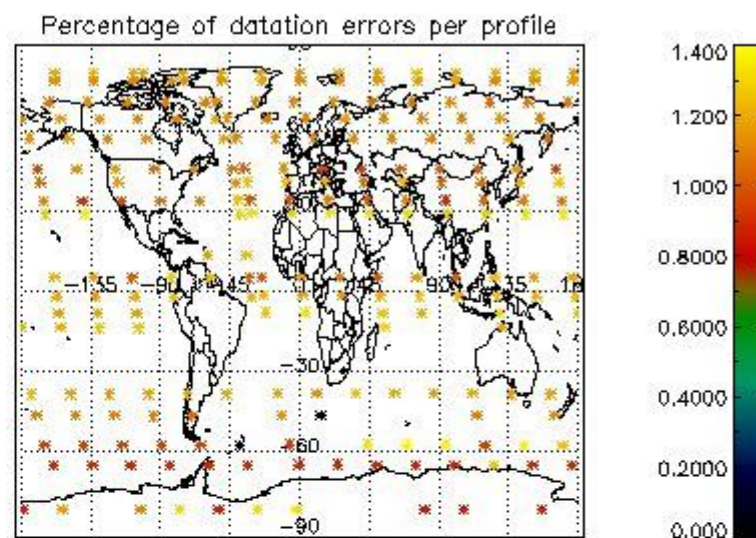
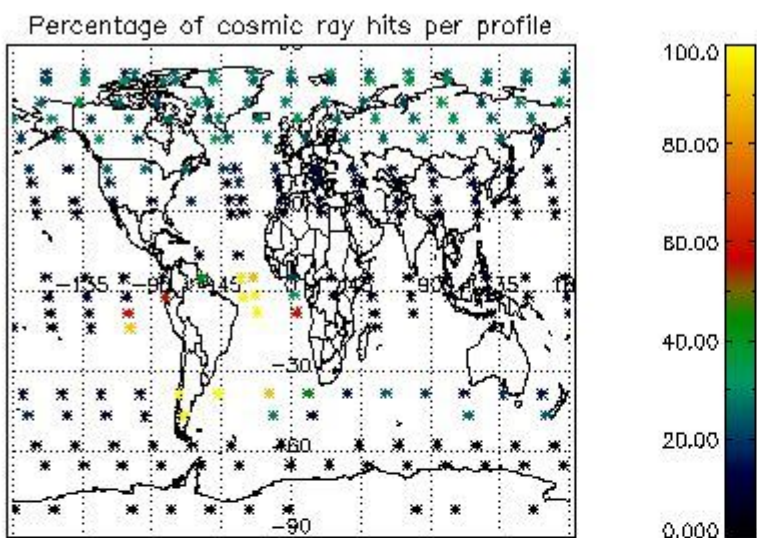


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

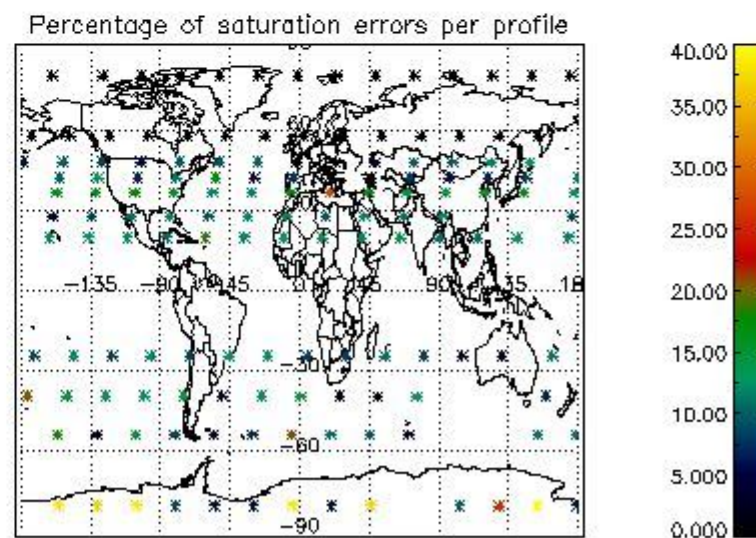
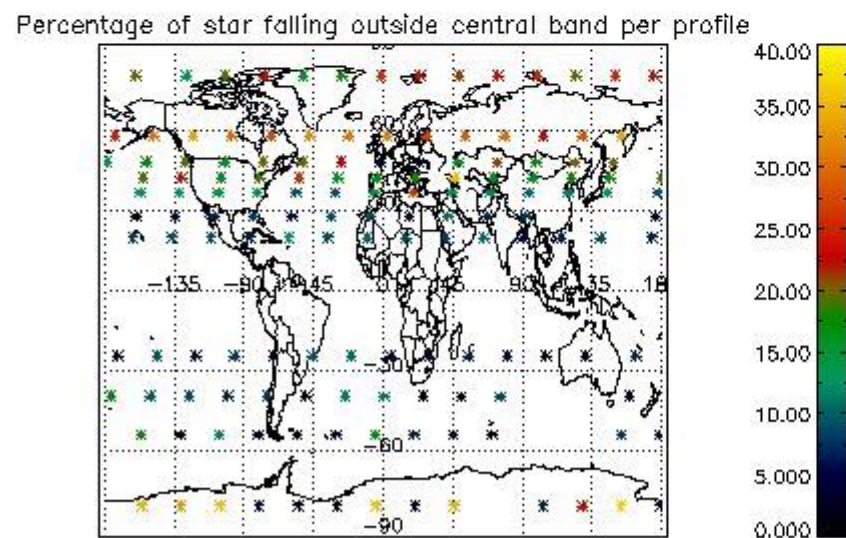
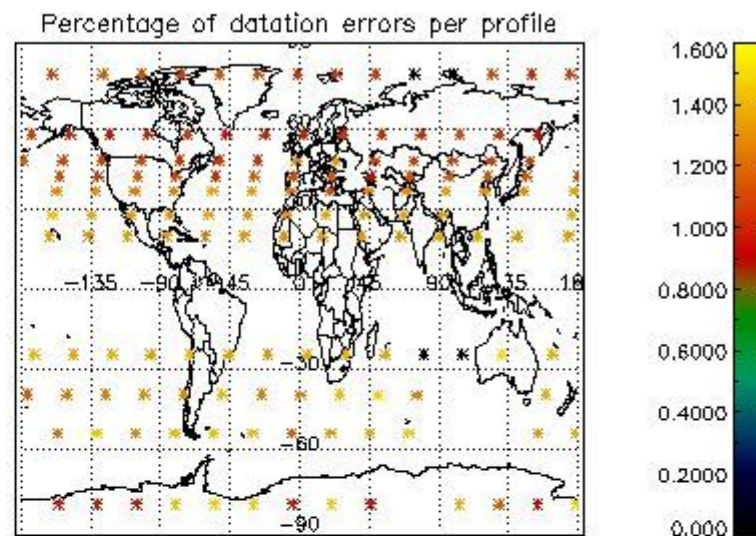
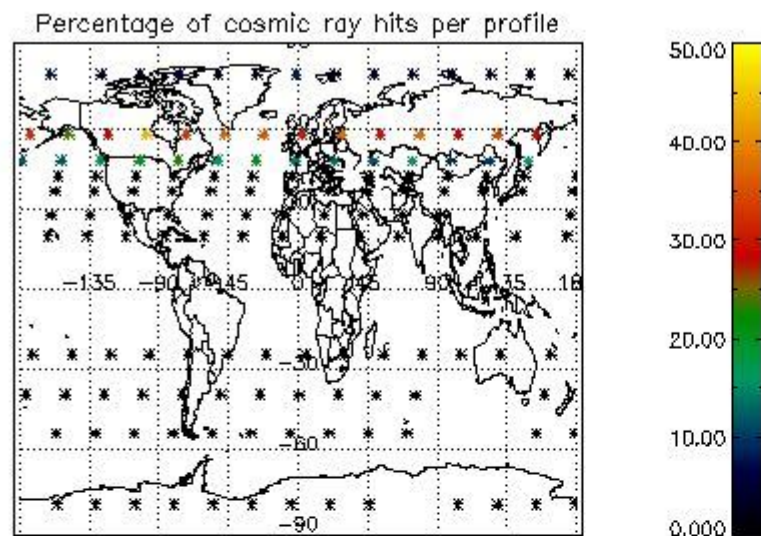


4.2 Plot quality information per product coming from level 1b processing (world map)

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

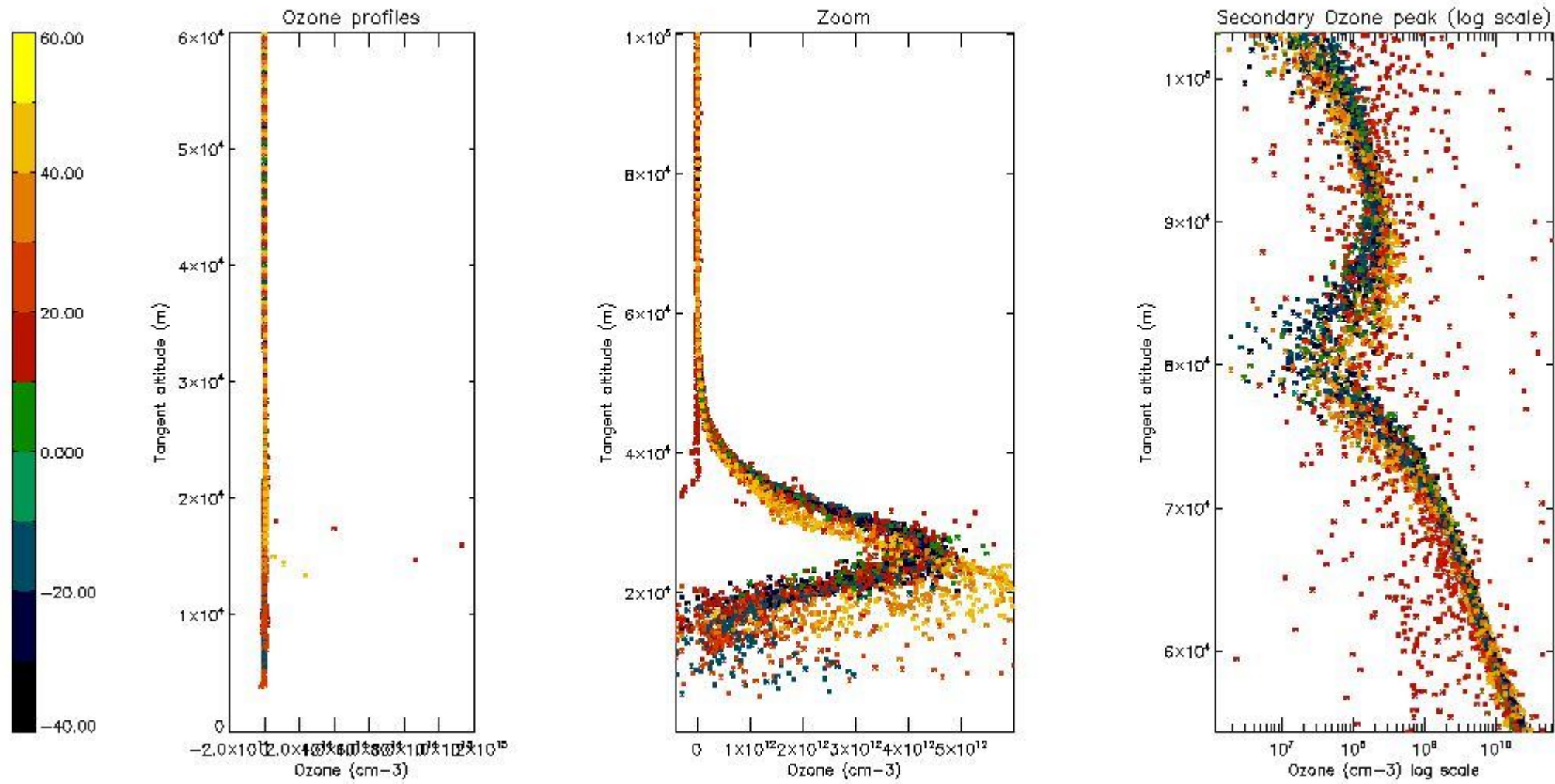
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	19

STD < 10	15
STD < 5	10

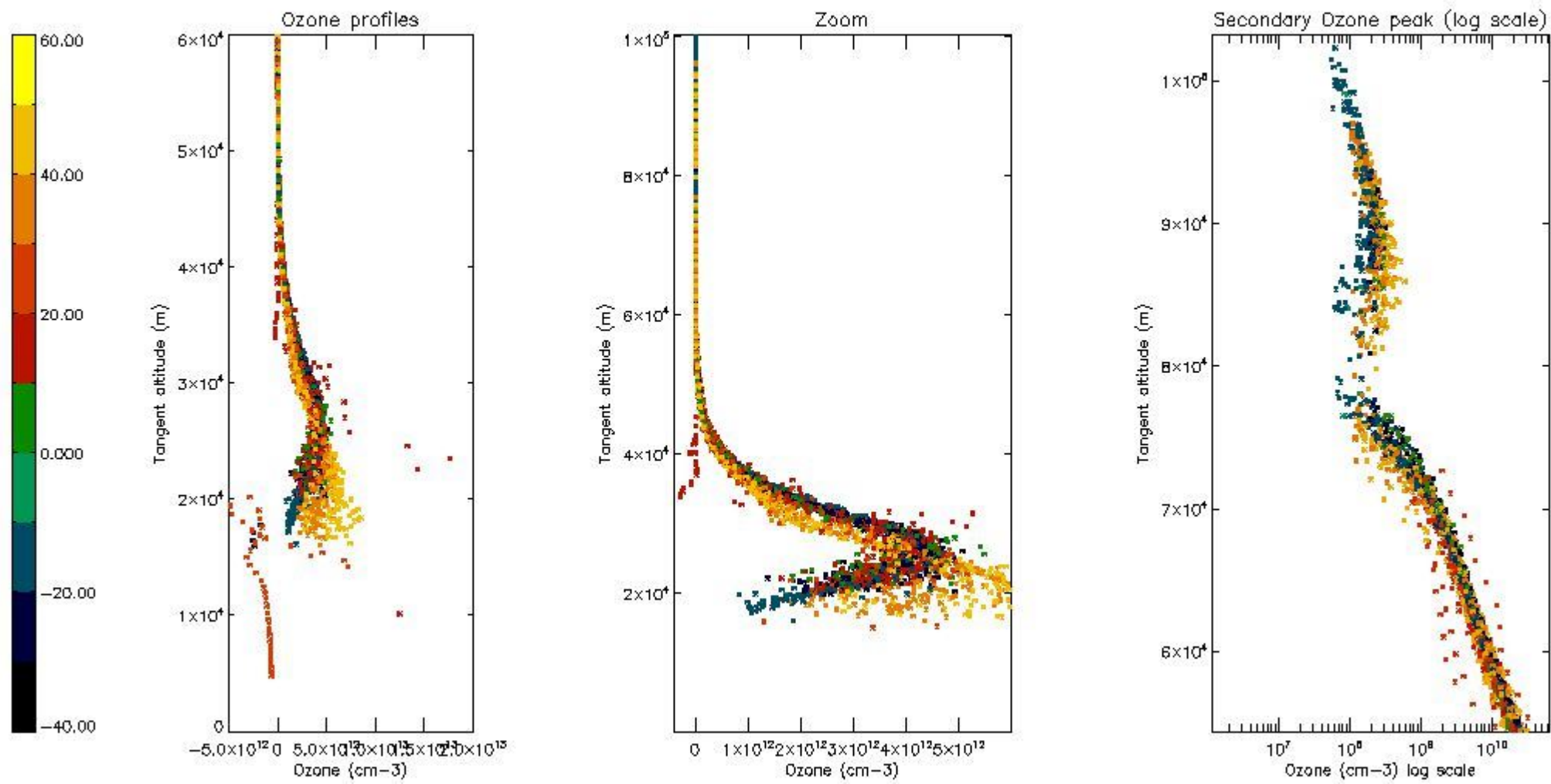
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



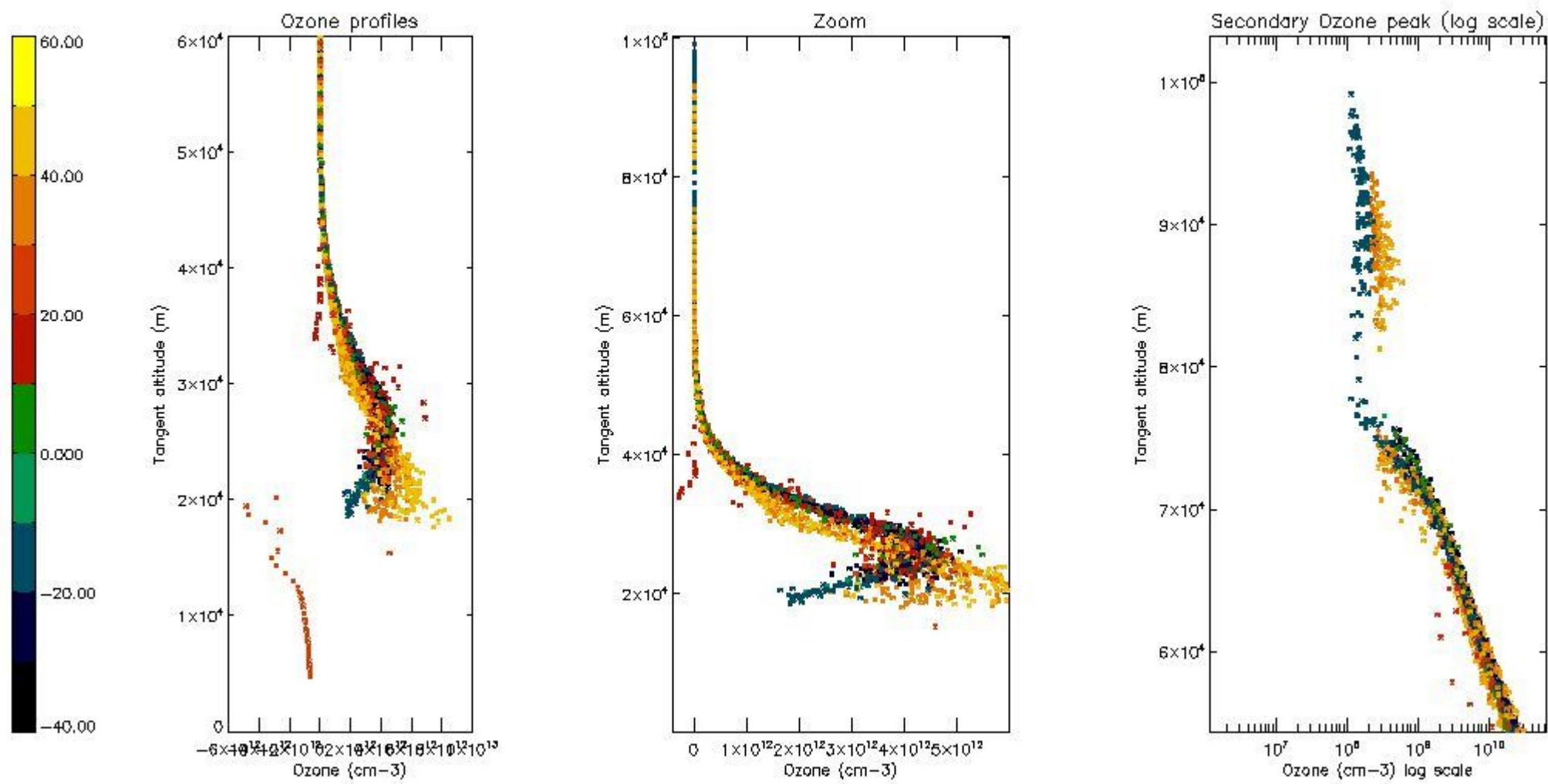
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



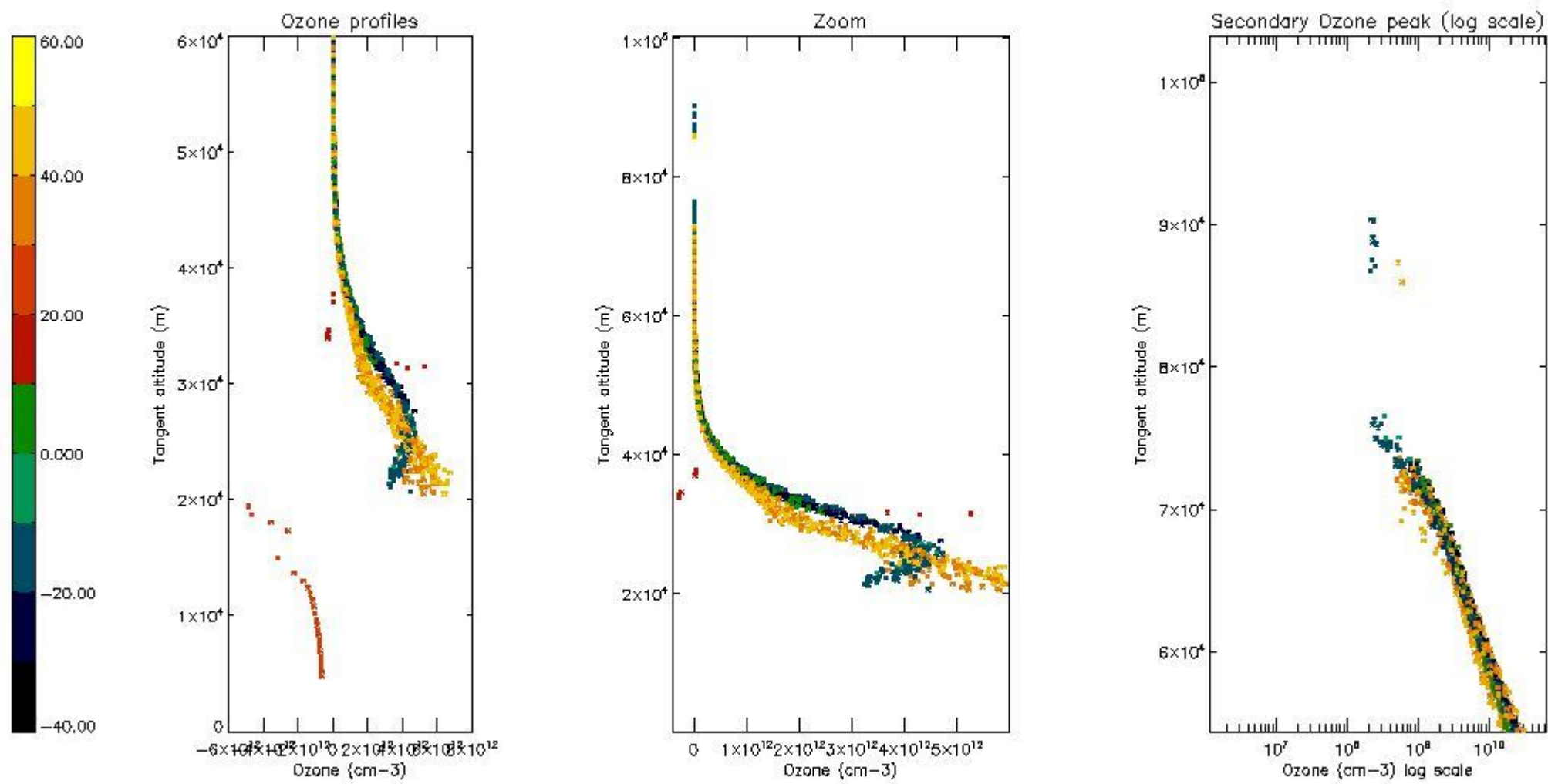
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



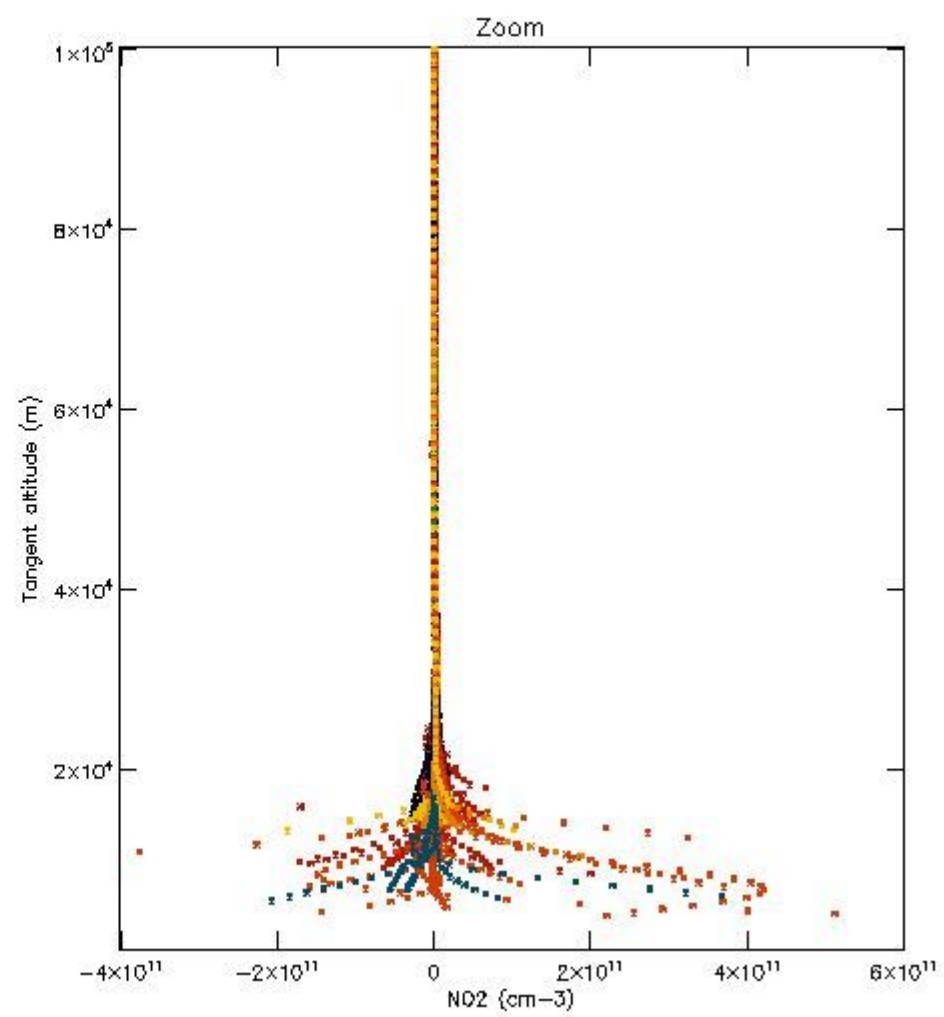
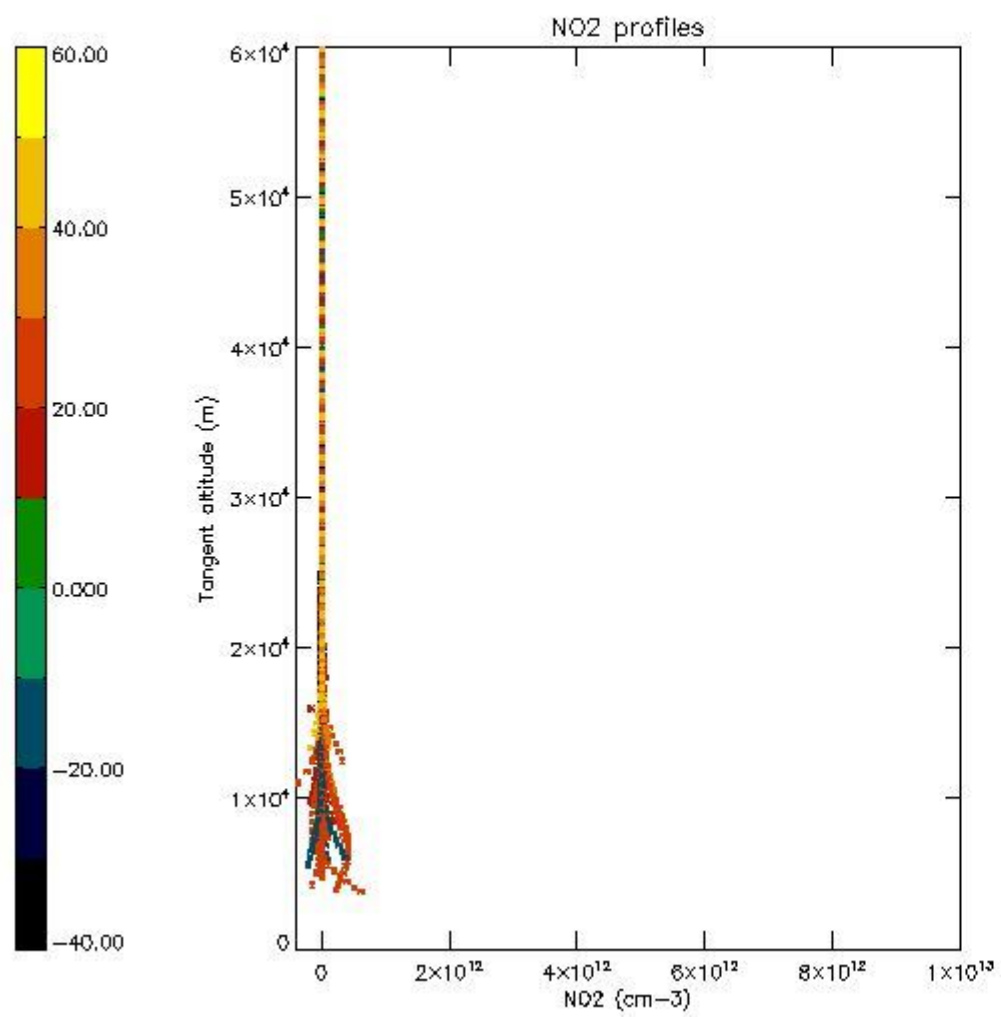
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



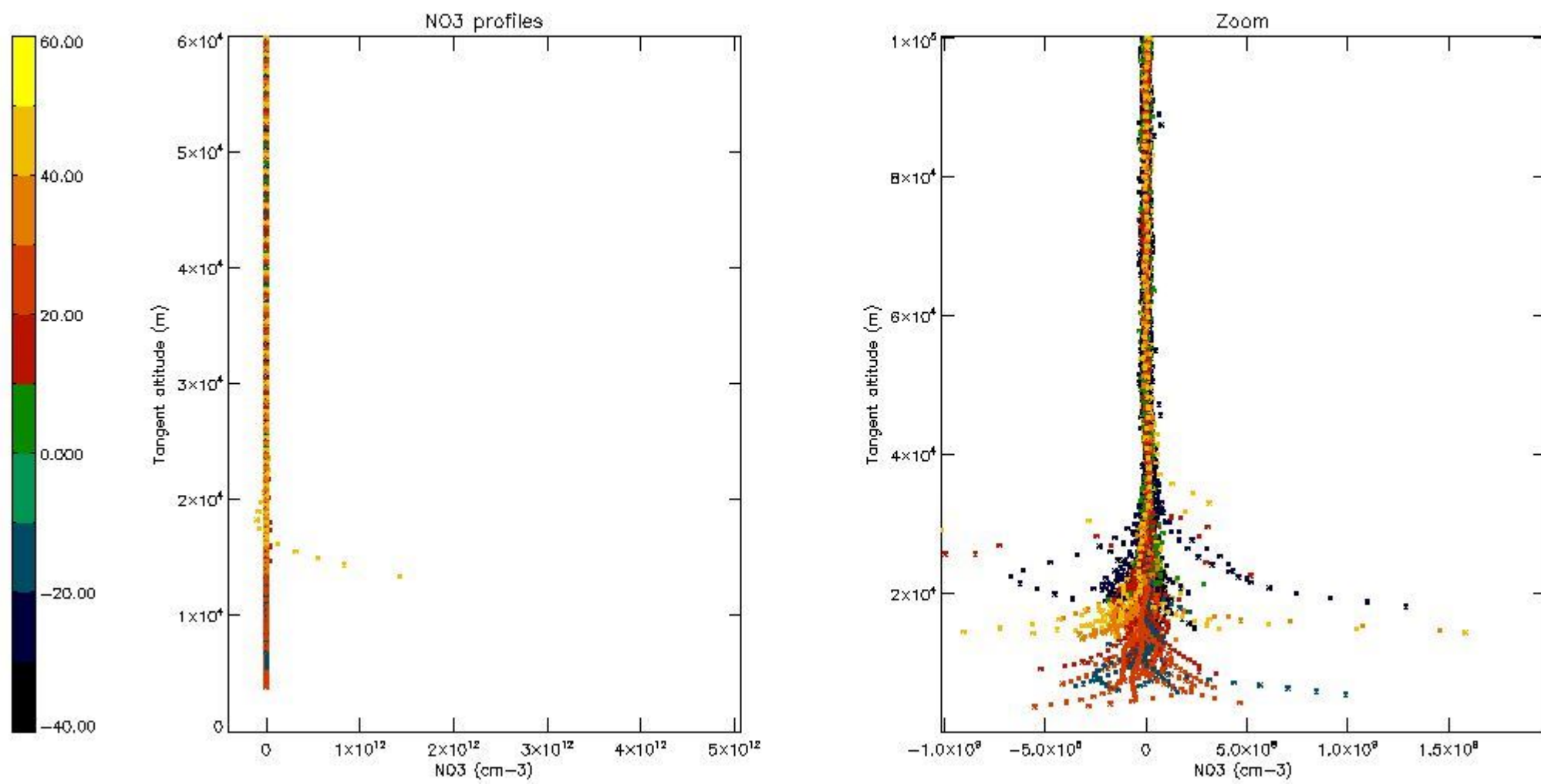
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



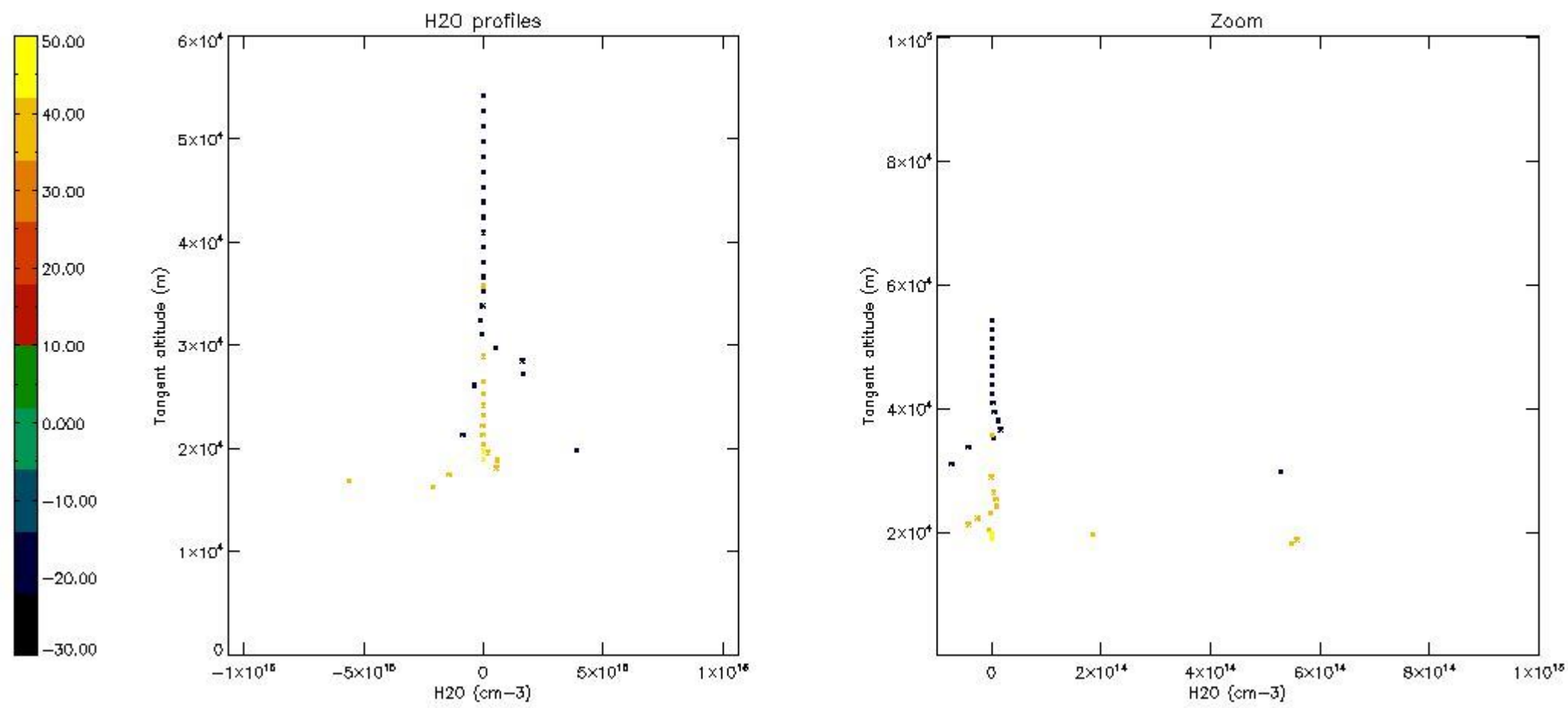
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

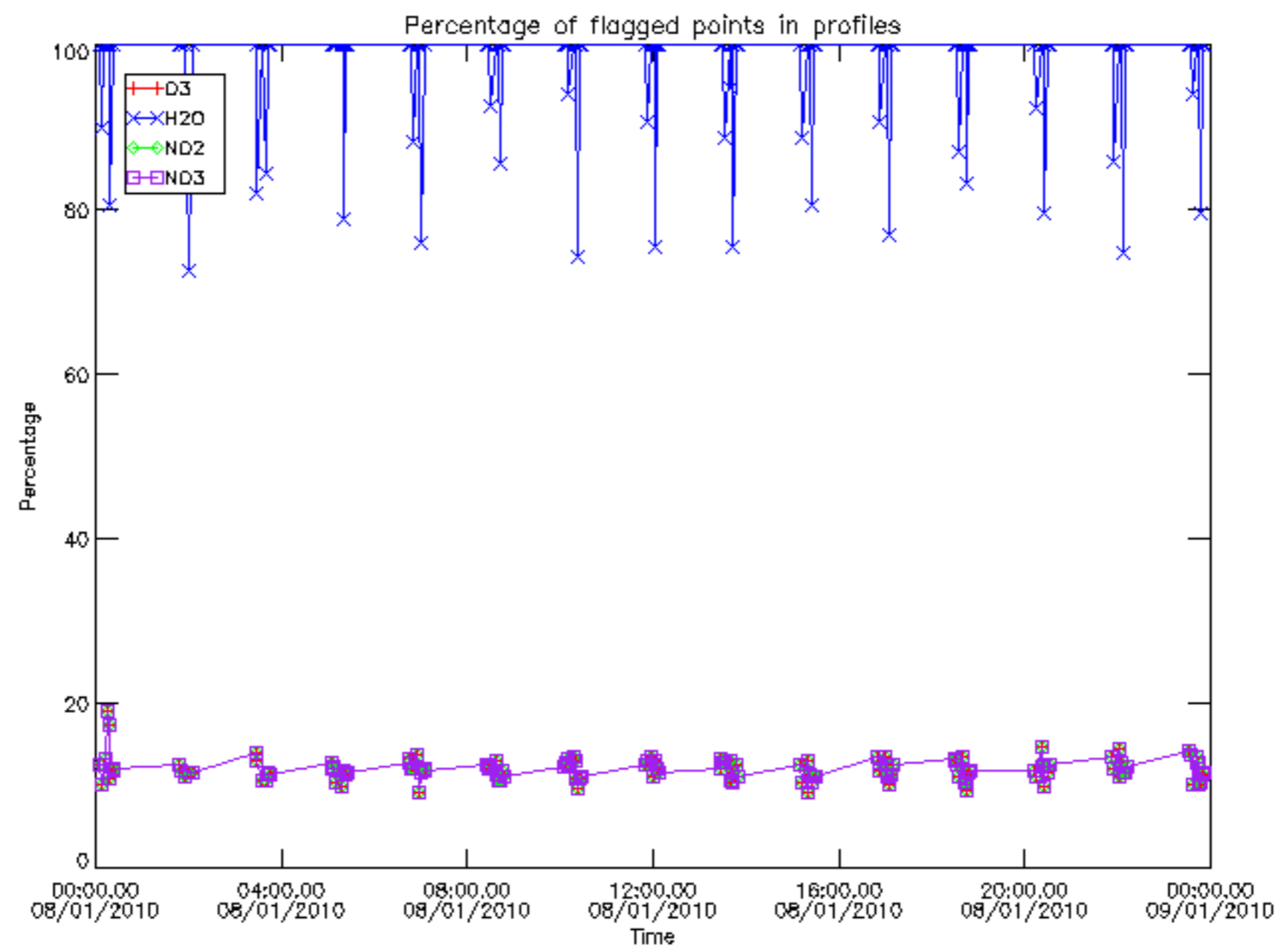
The colorbar represents the latitude.



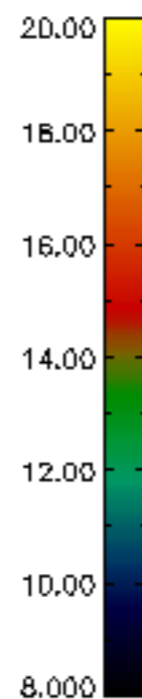
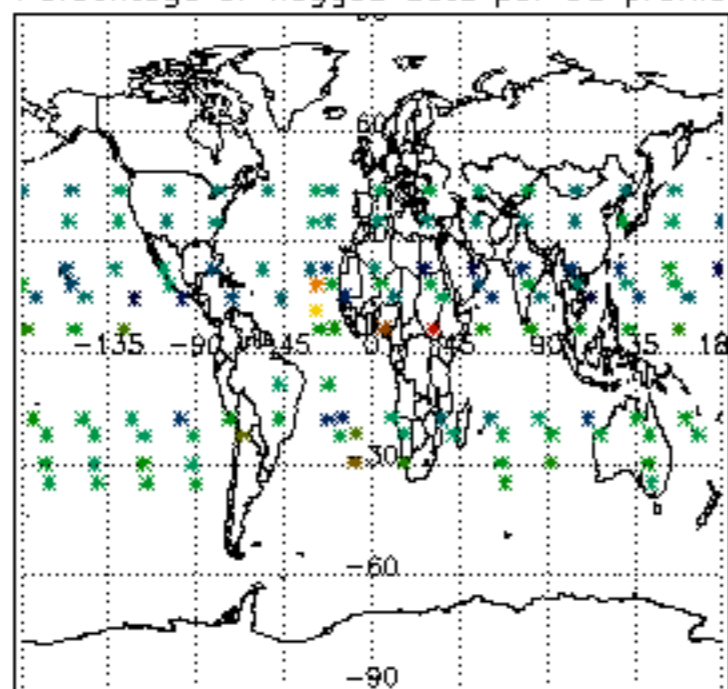
6. Auxiliary Data Files used for the production reported in section 2

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

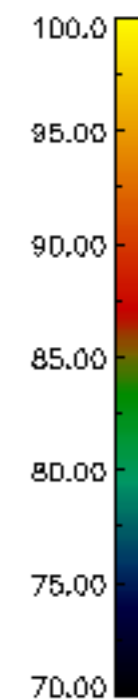
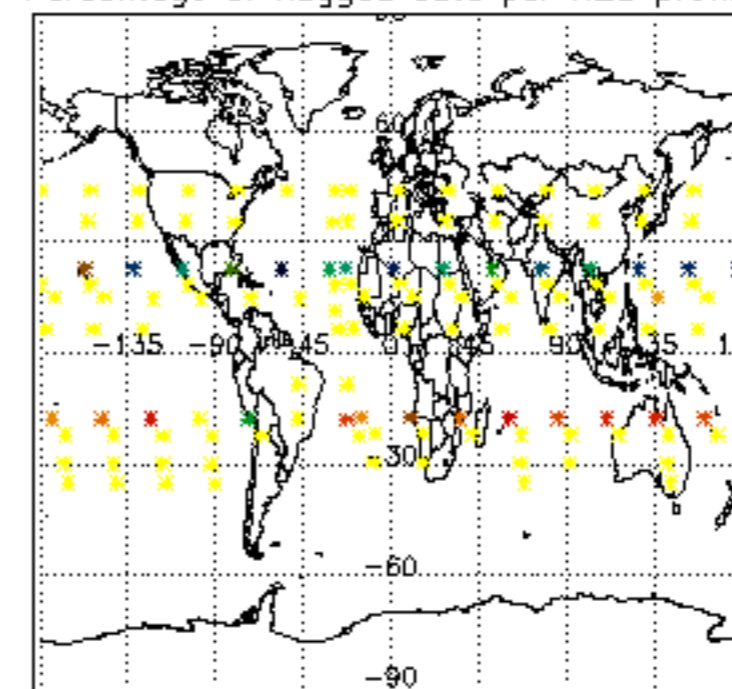
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-JAN-2010 00:05:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2010 00:05:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2010 00:05:14



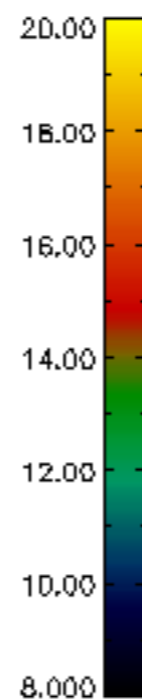
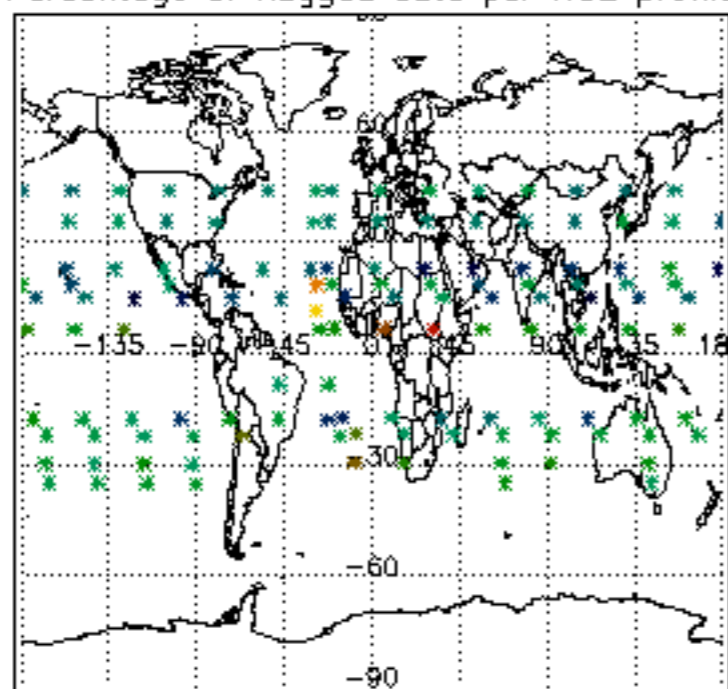
Percentage of flagged data per D3 profile



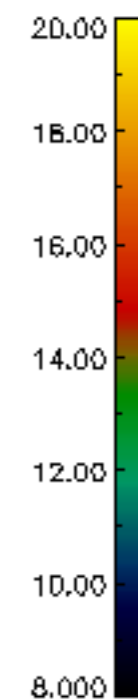
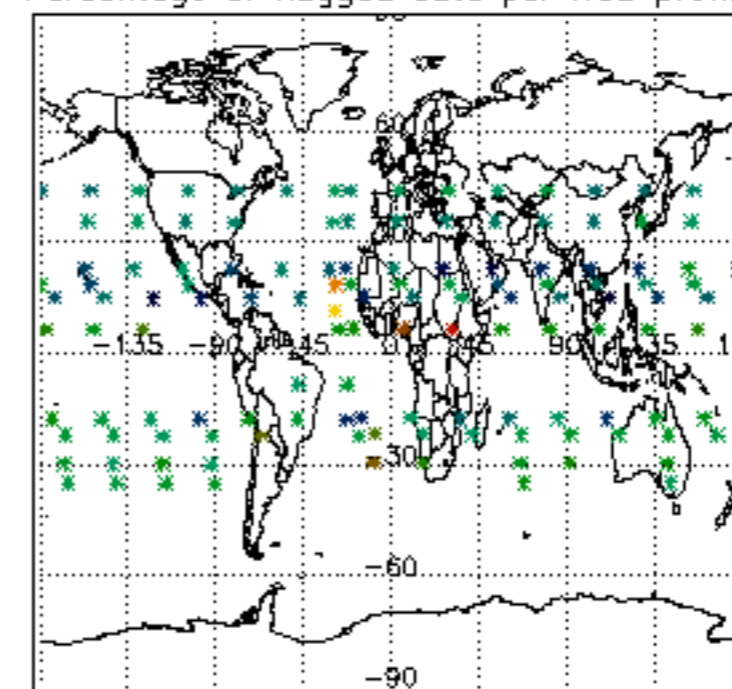
Percentage of flagged data per H2O profile

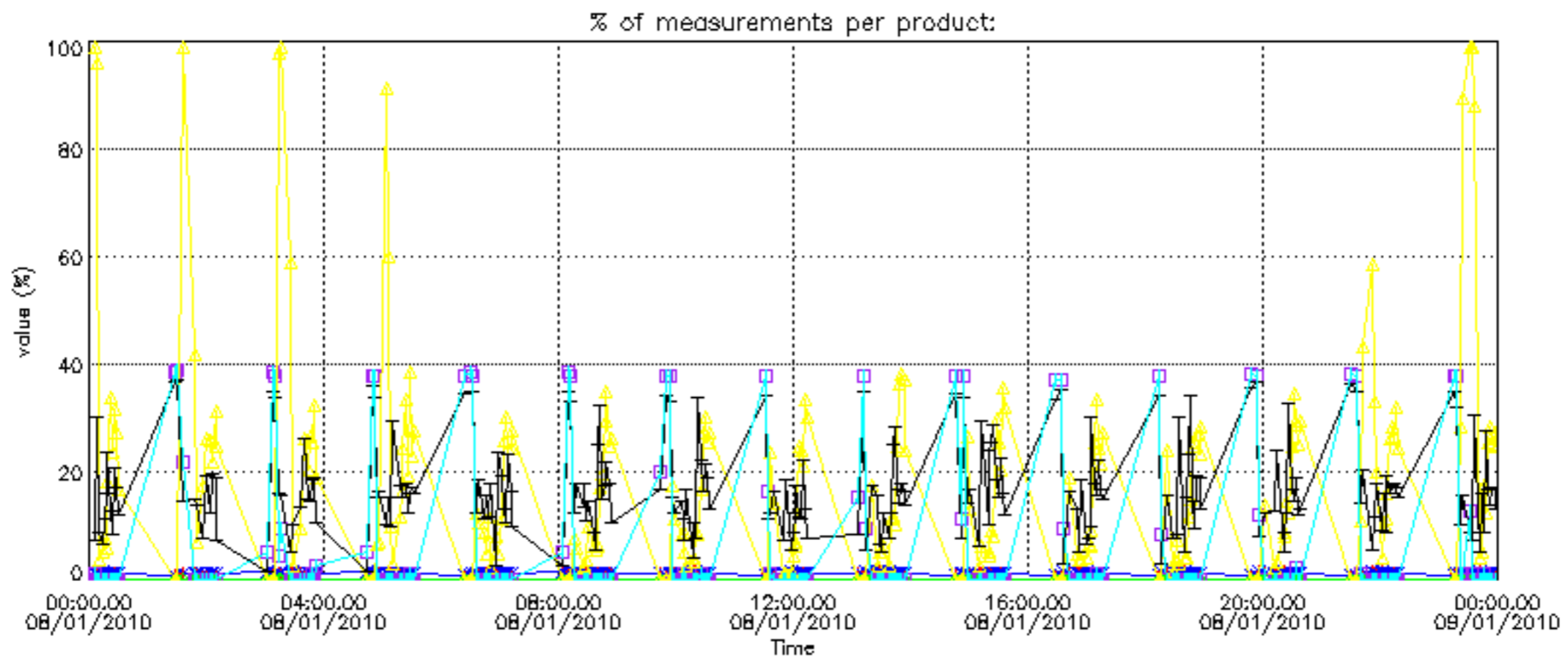
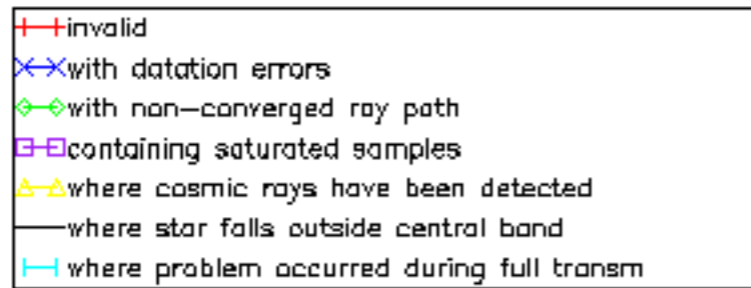


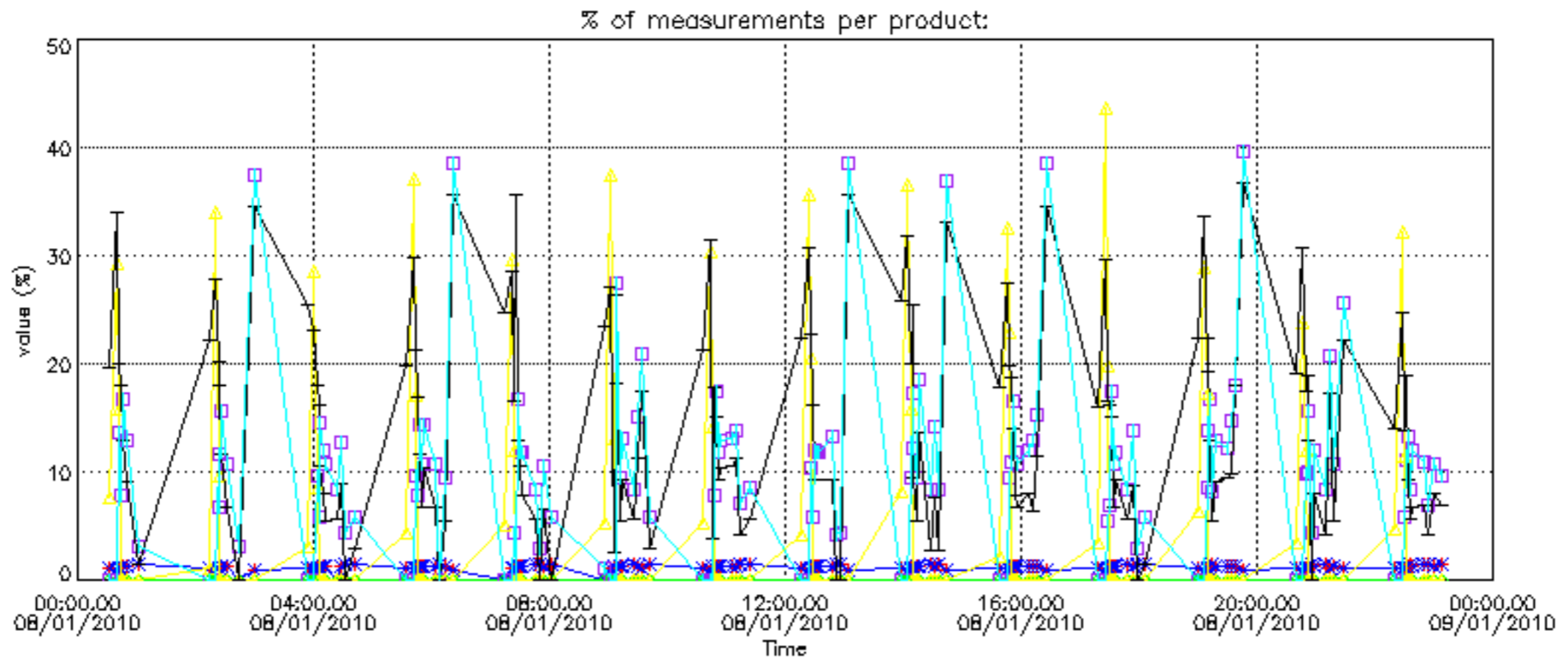
Percentage of flagged data per NO2 profile



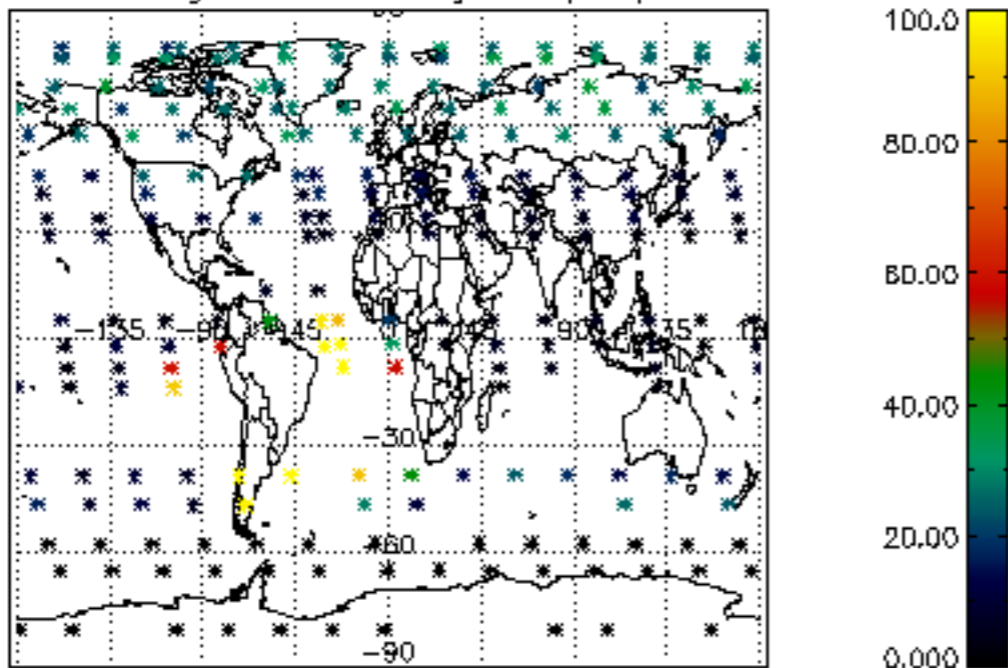
Percentage of flagged data per NO3 profile



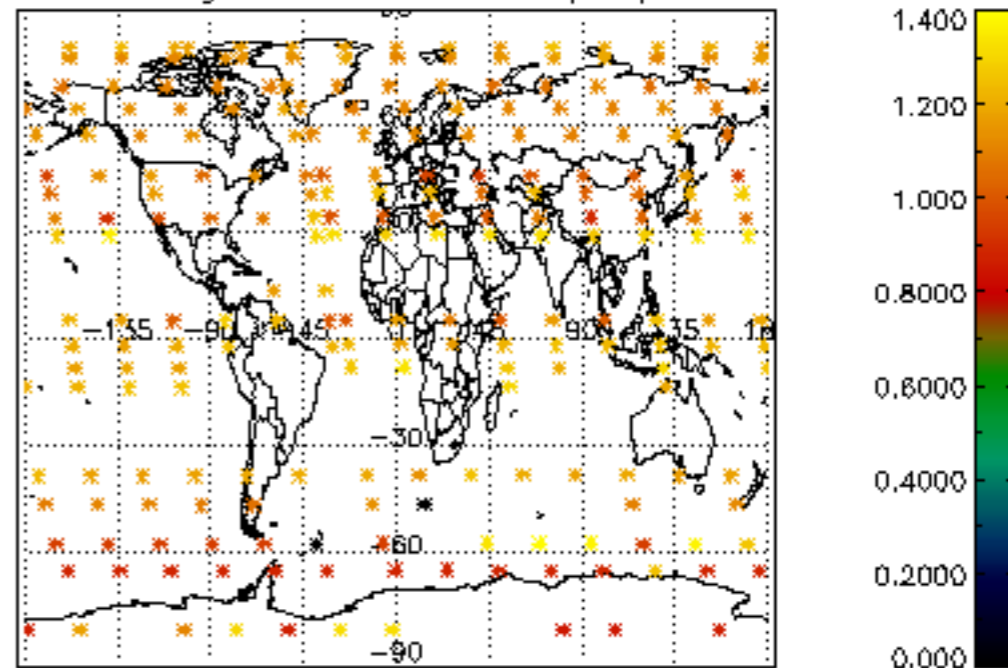




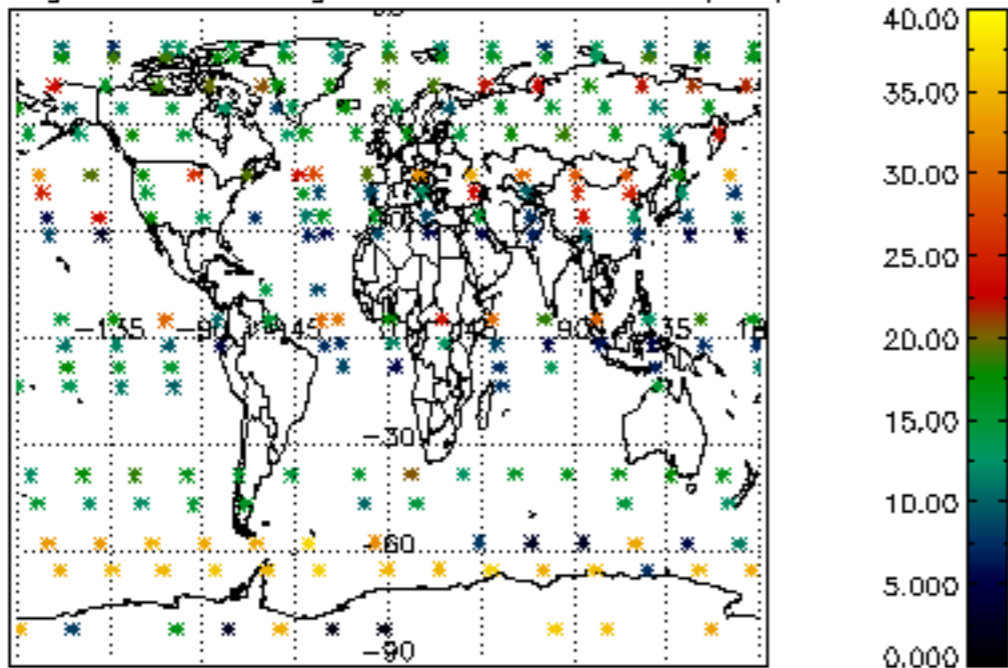
Percentage of cosmic ray hits per profile



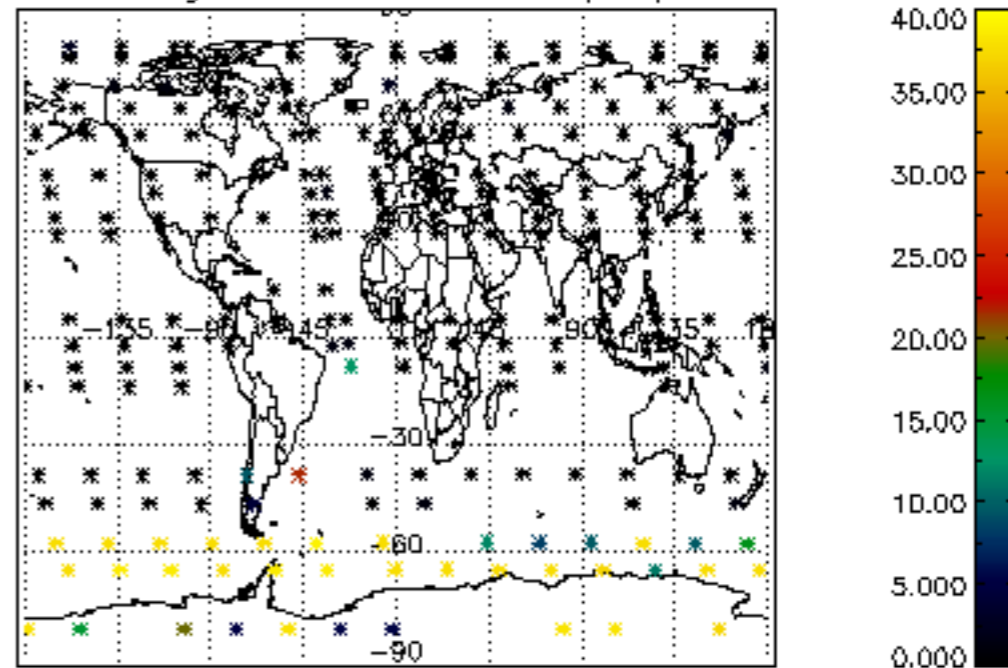
Percentage of datation errors per profile



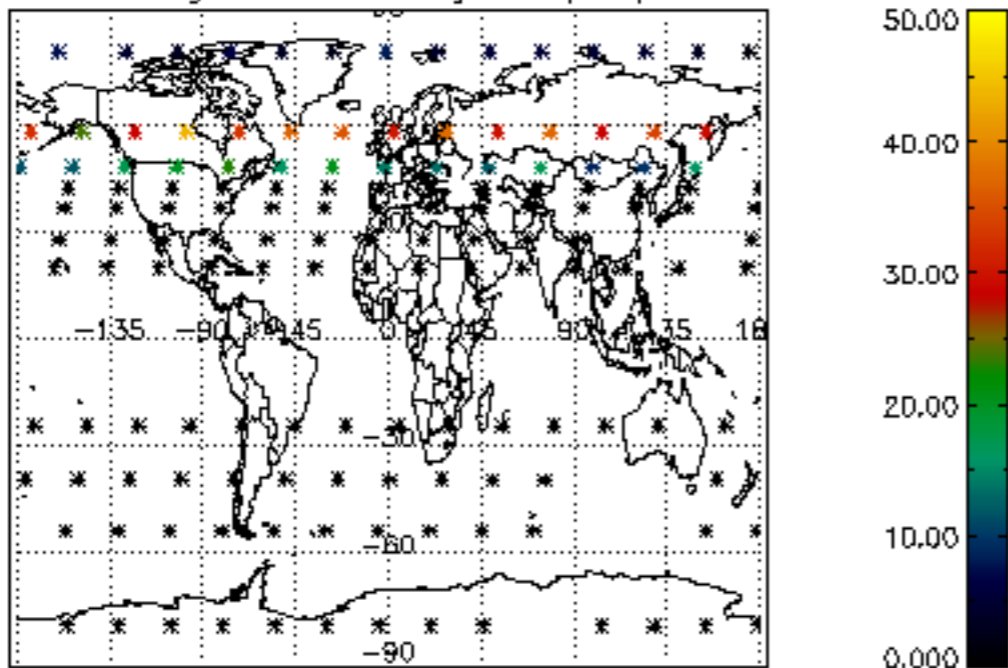
Percentage of star falling outside central band per profile



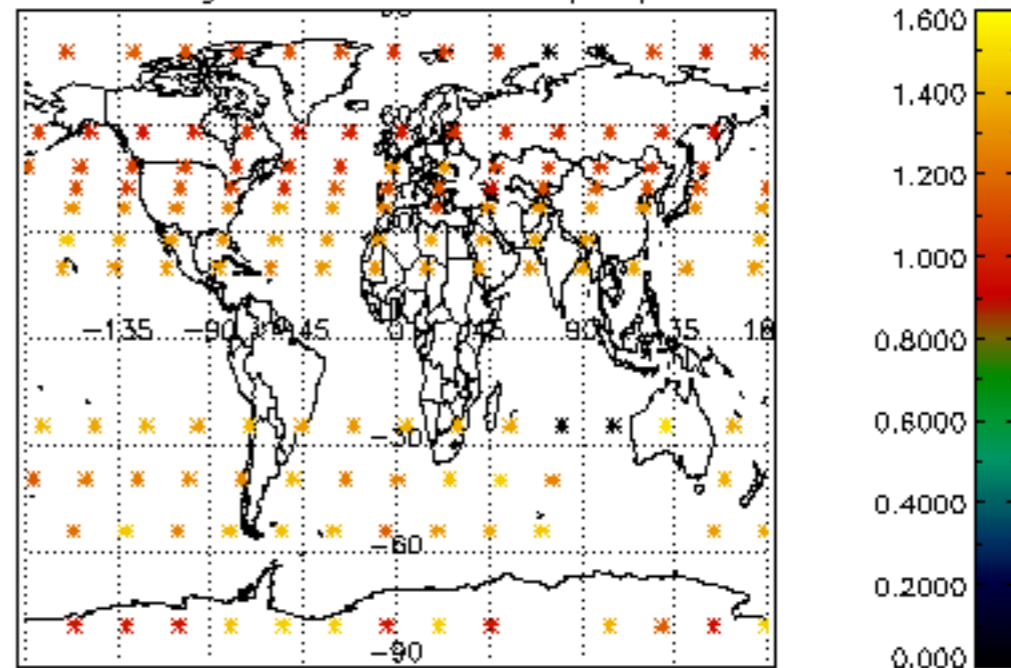
Percentage of saturation errors per profile



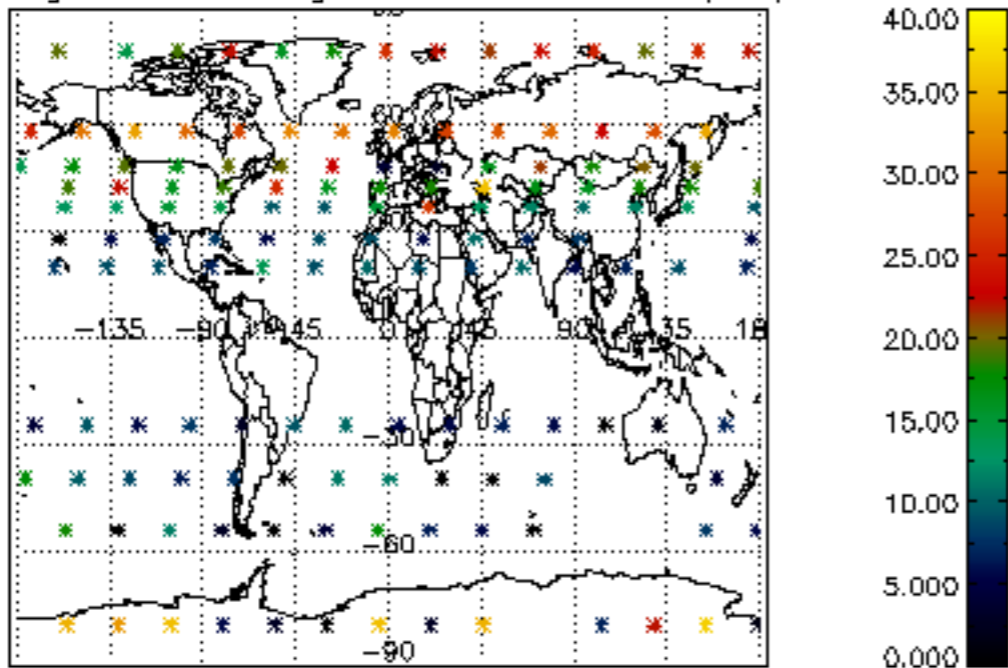
Percentage of cosmic ray hits per profile



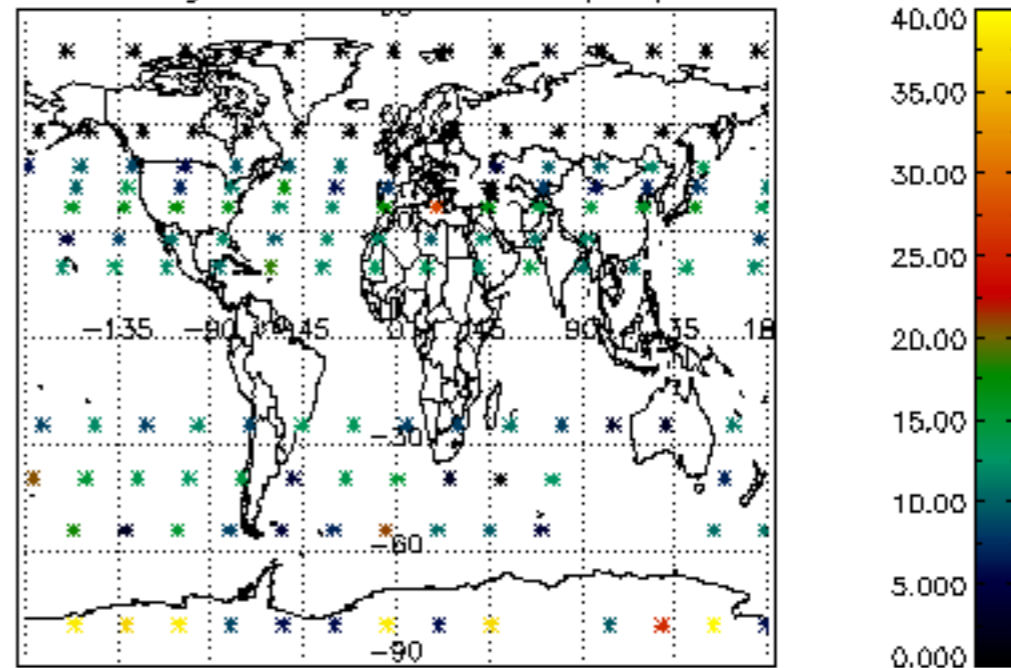
Percentage of datation errors per profile

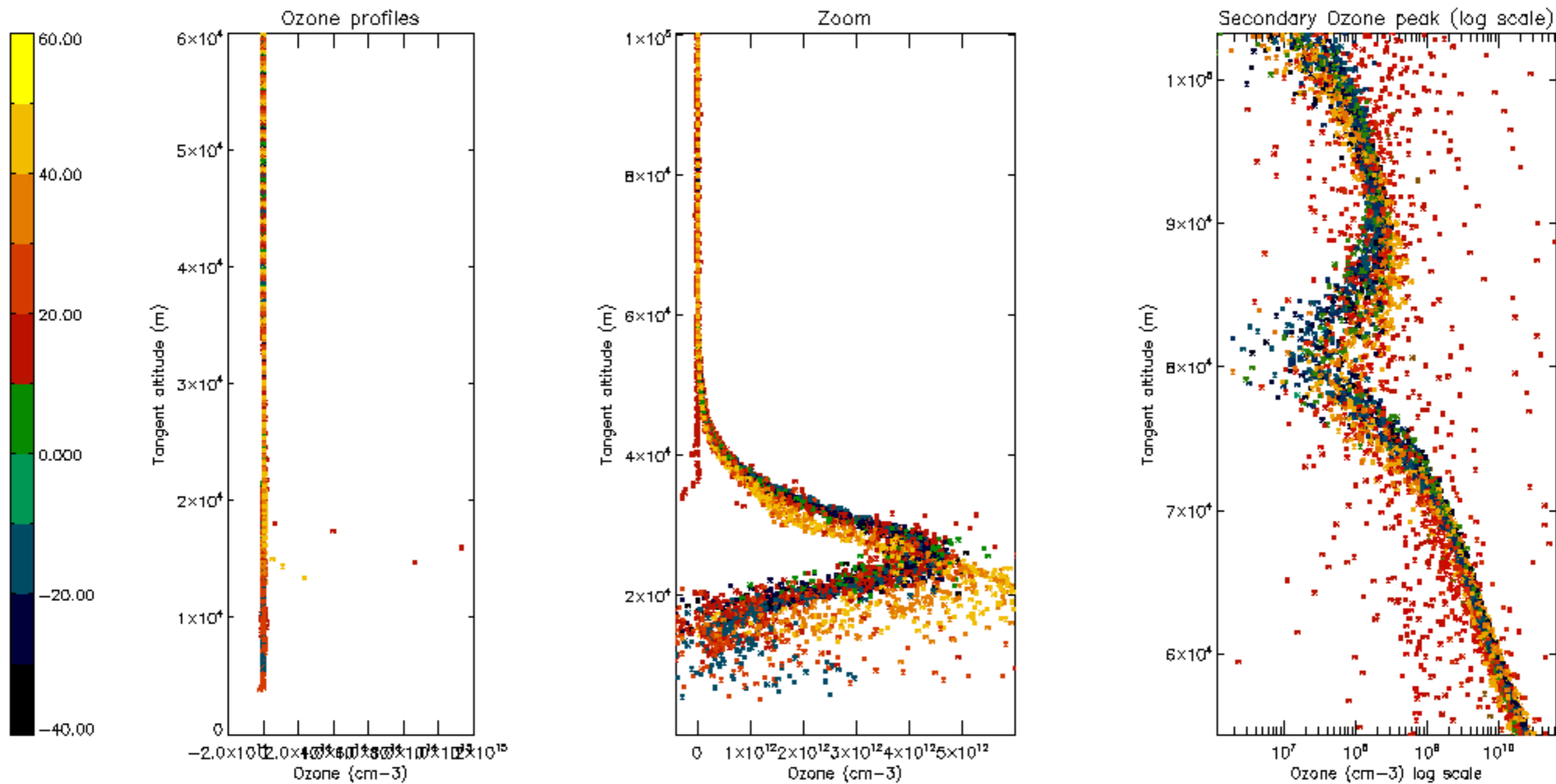


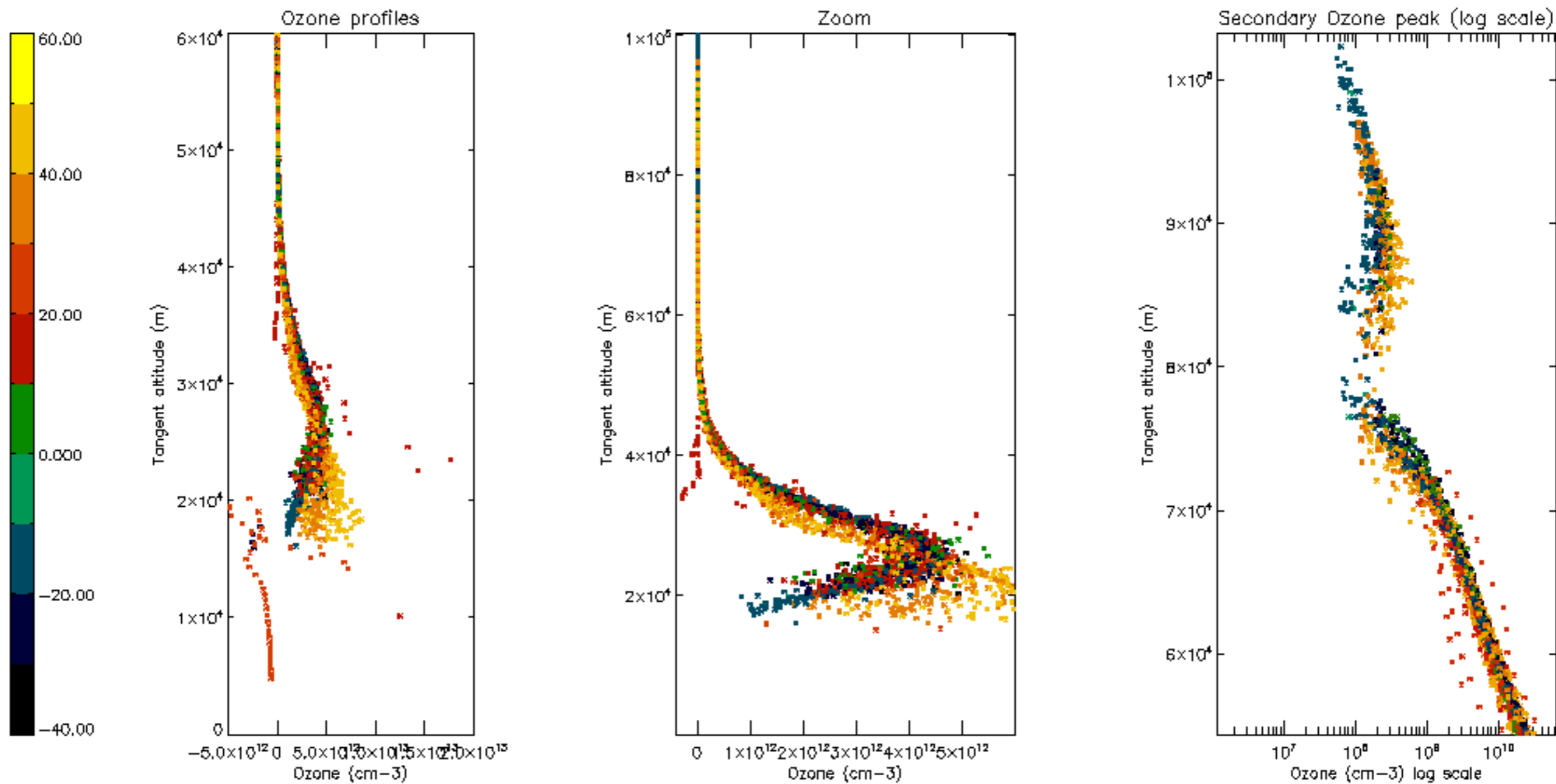
Percentage of star falling outside central band per profile

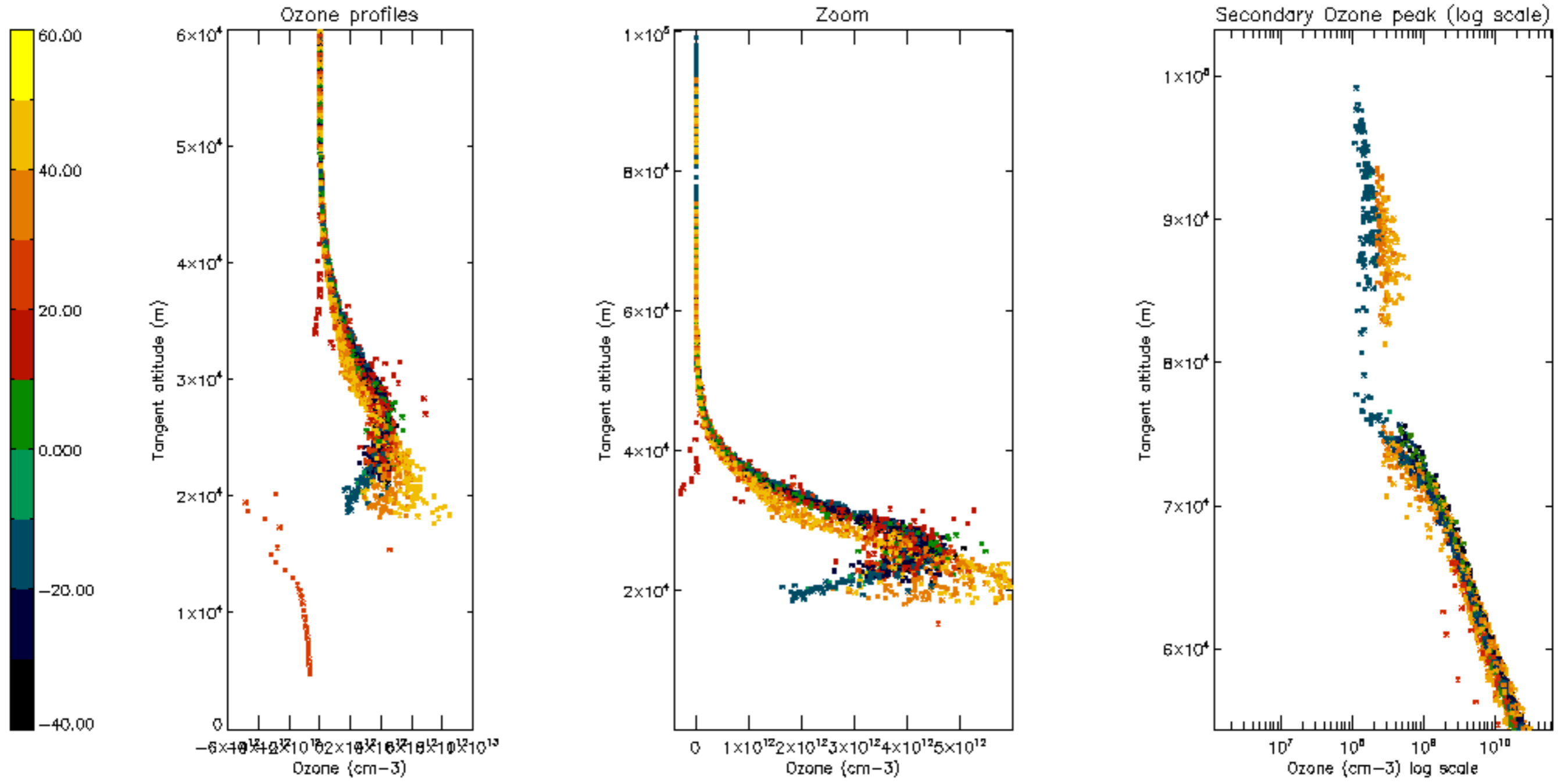


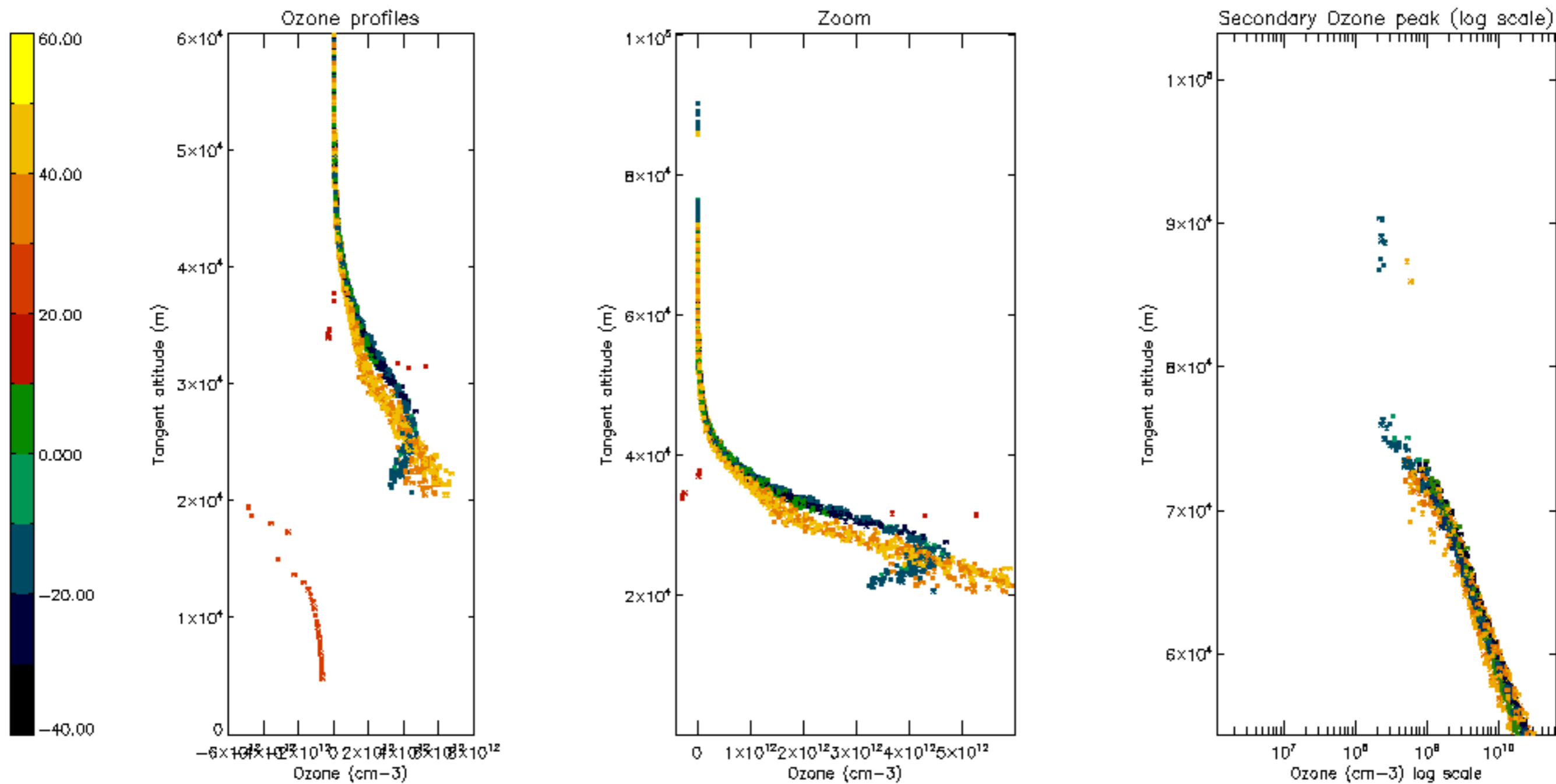
Percentage of saturation errors per profile

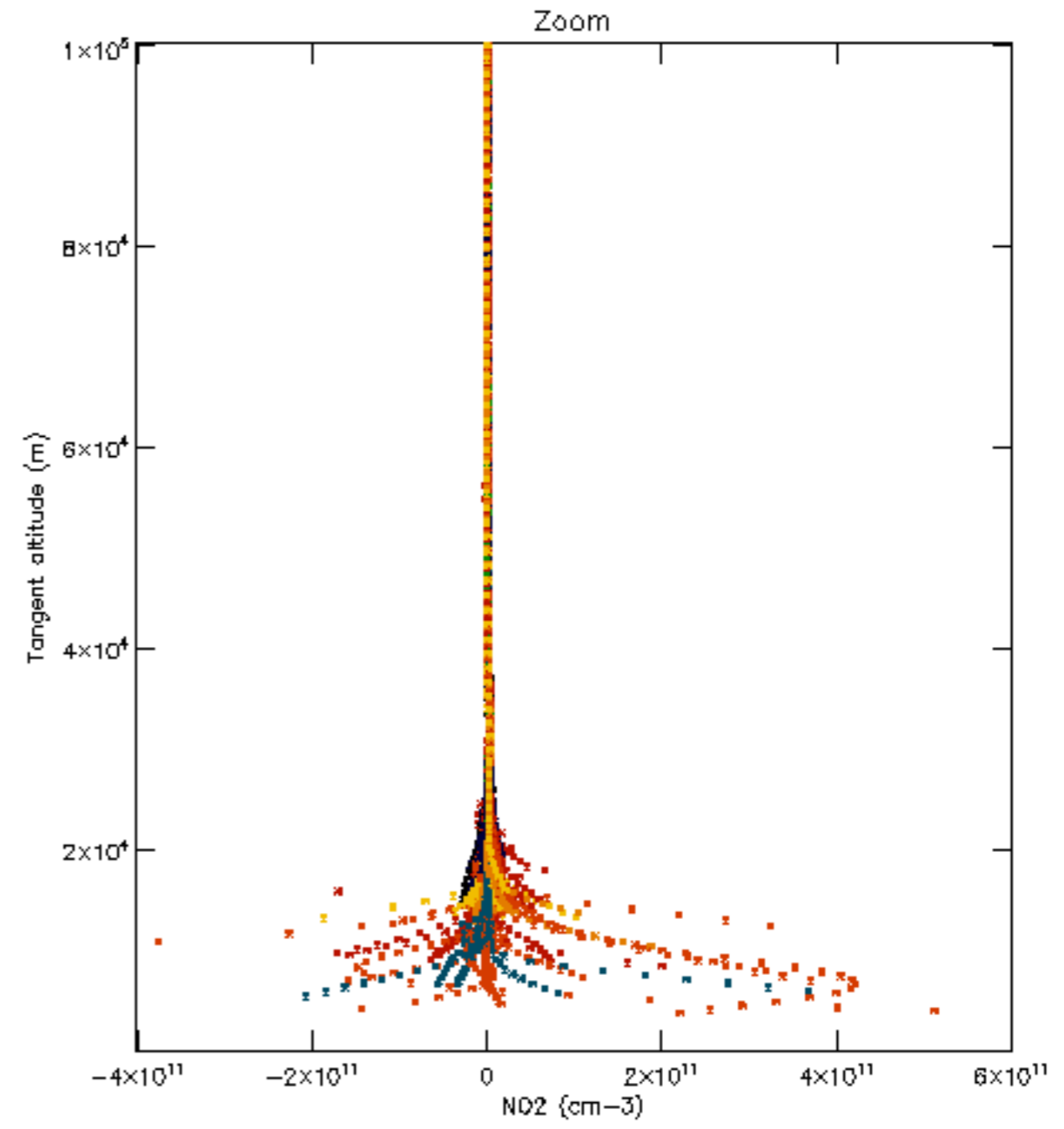
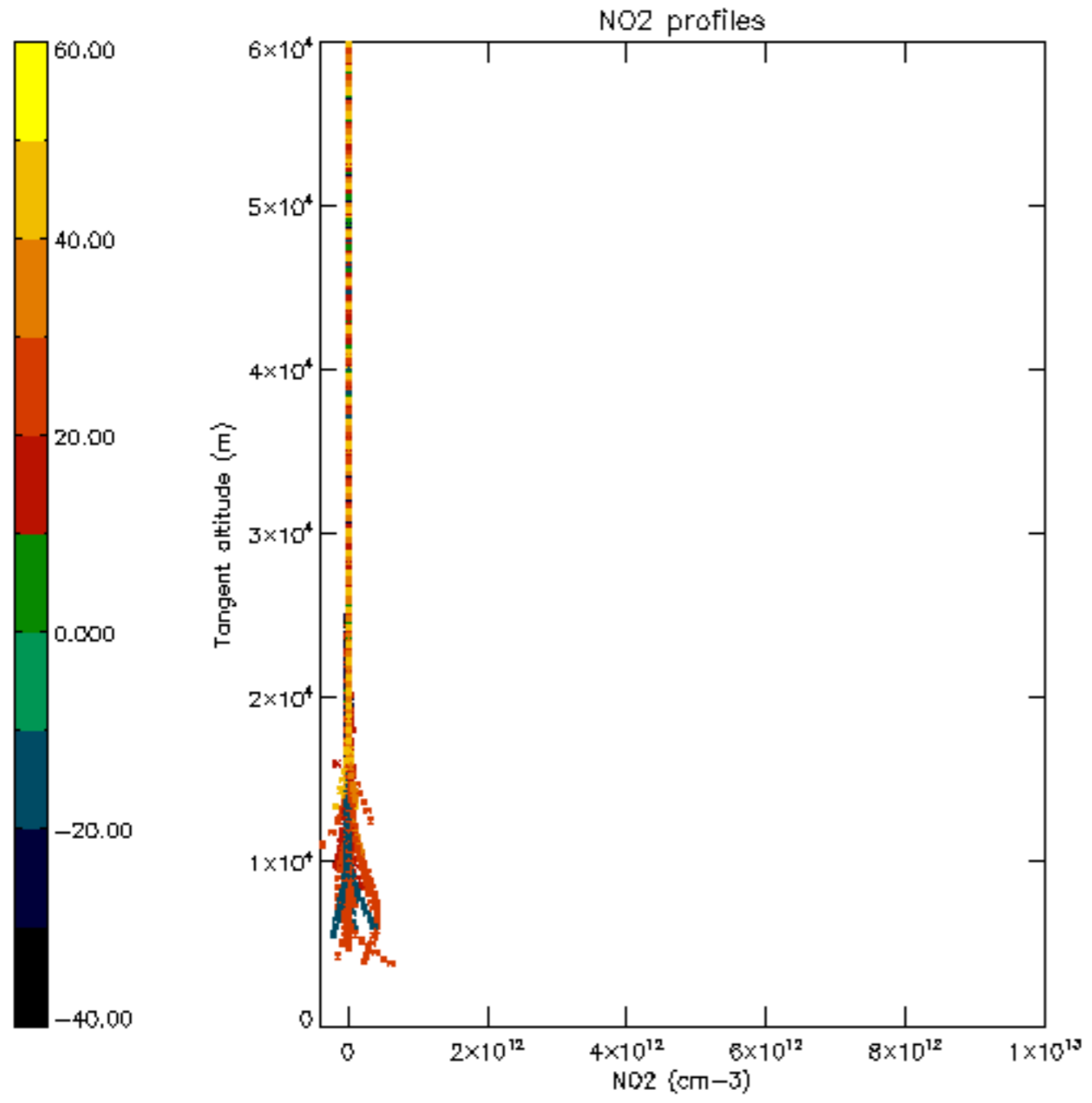


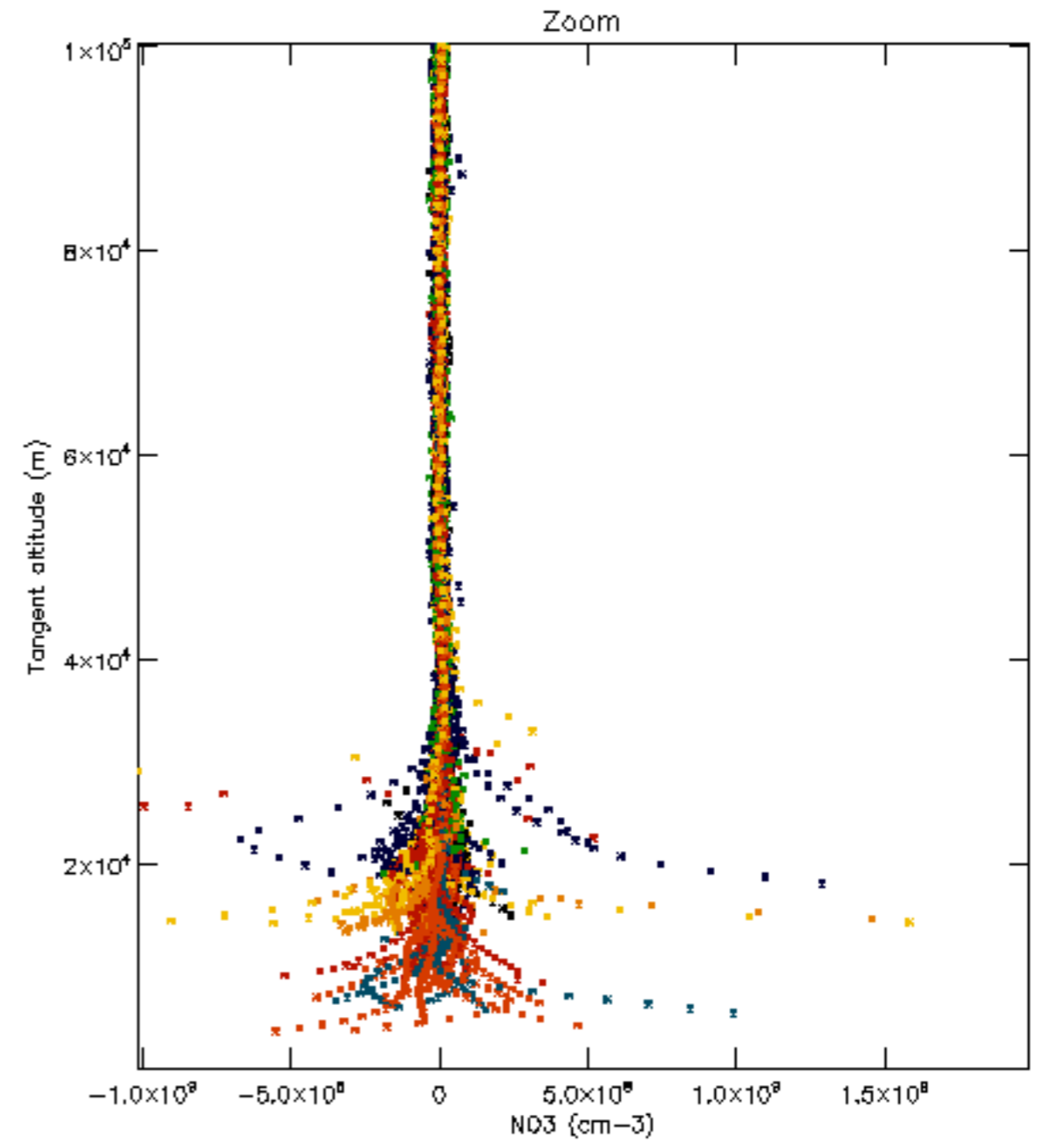
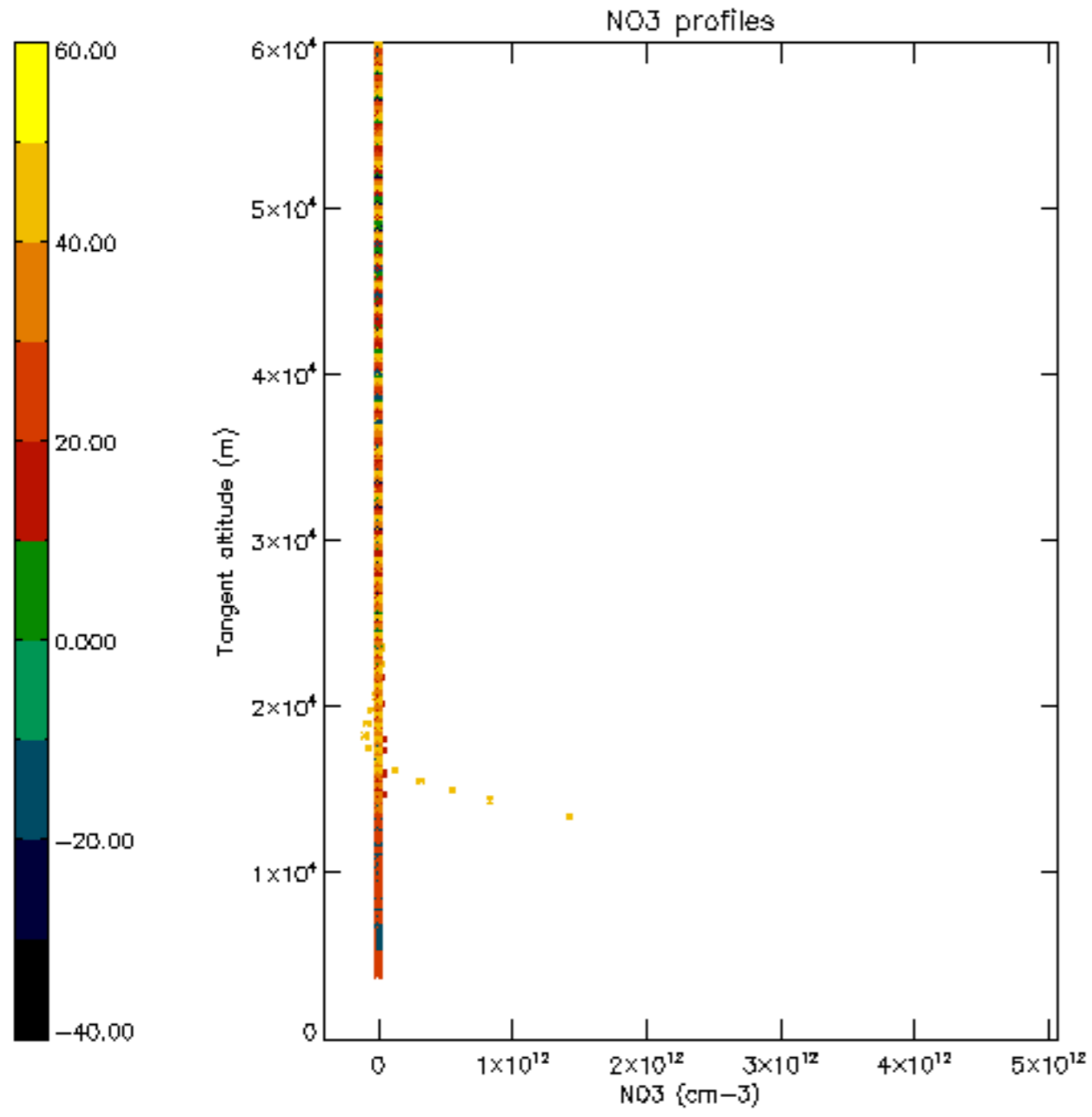


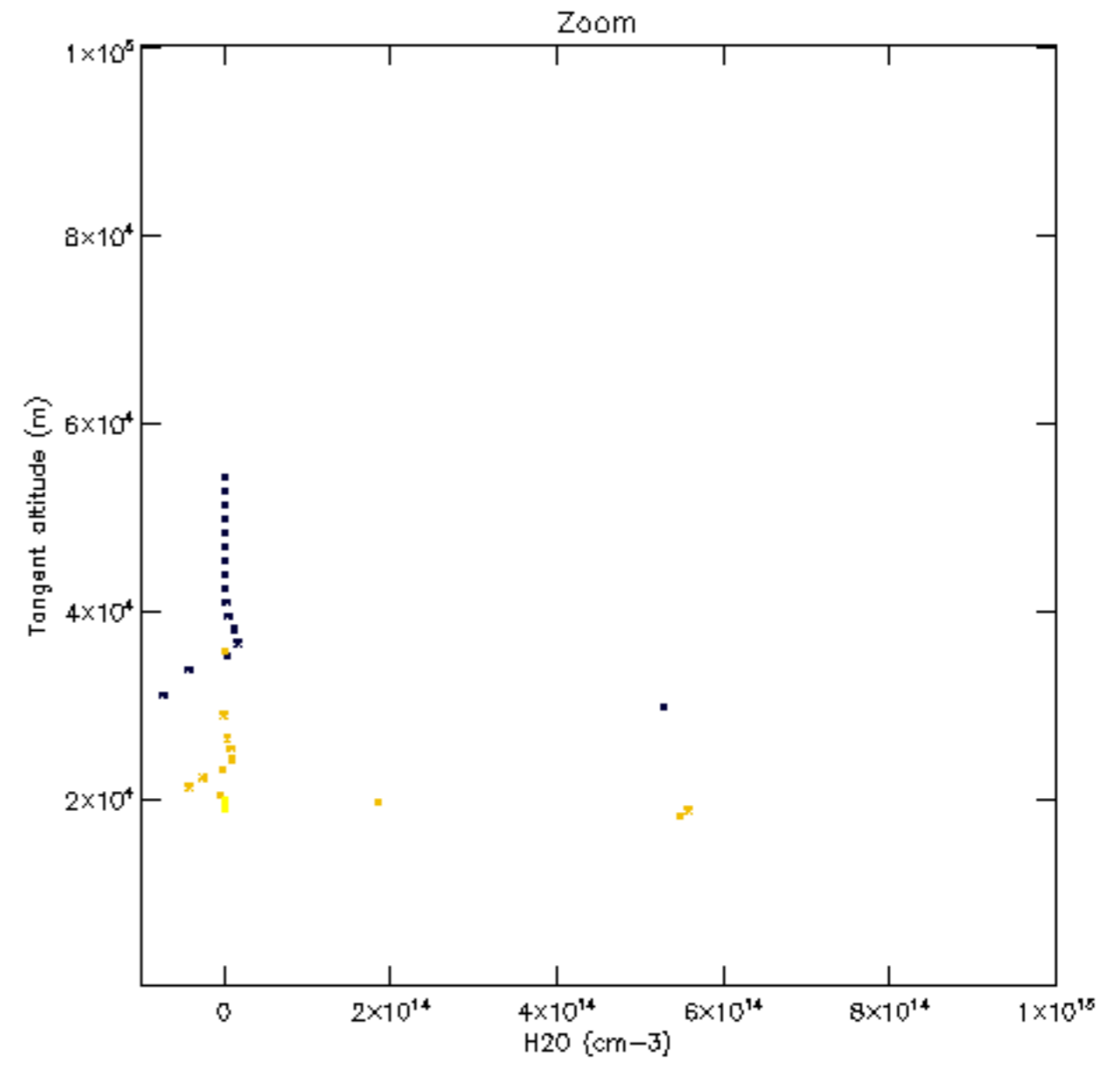
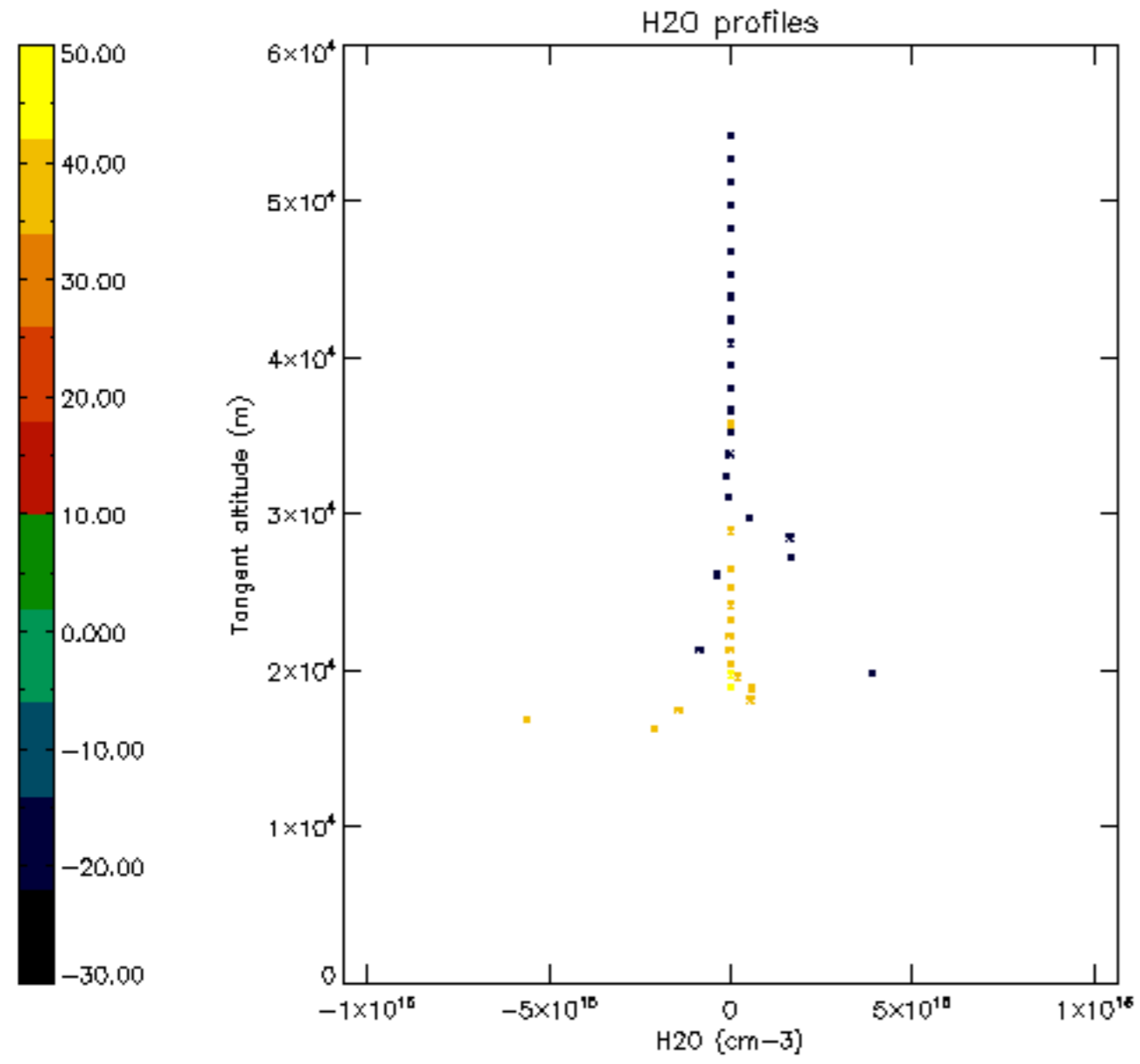


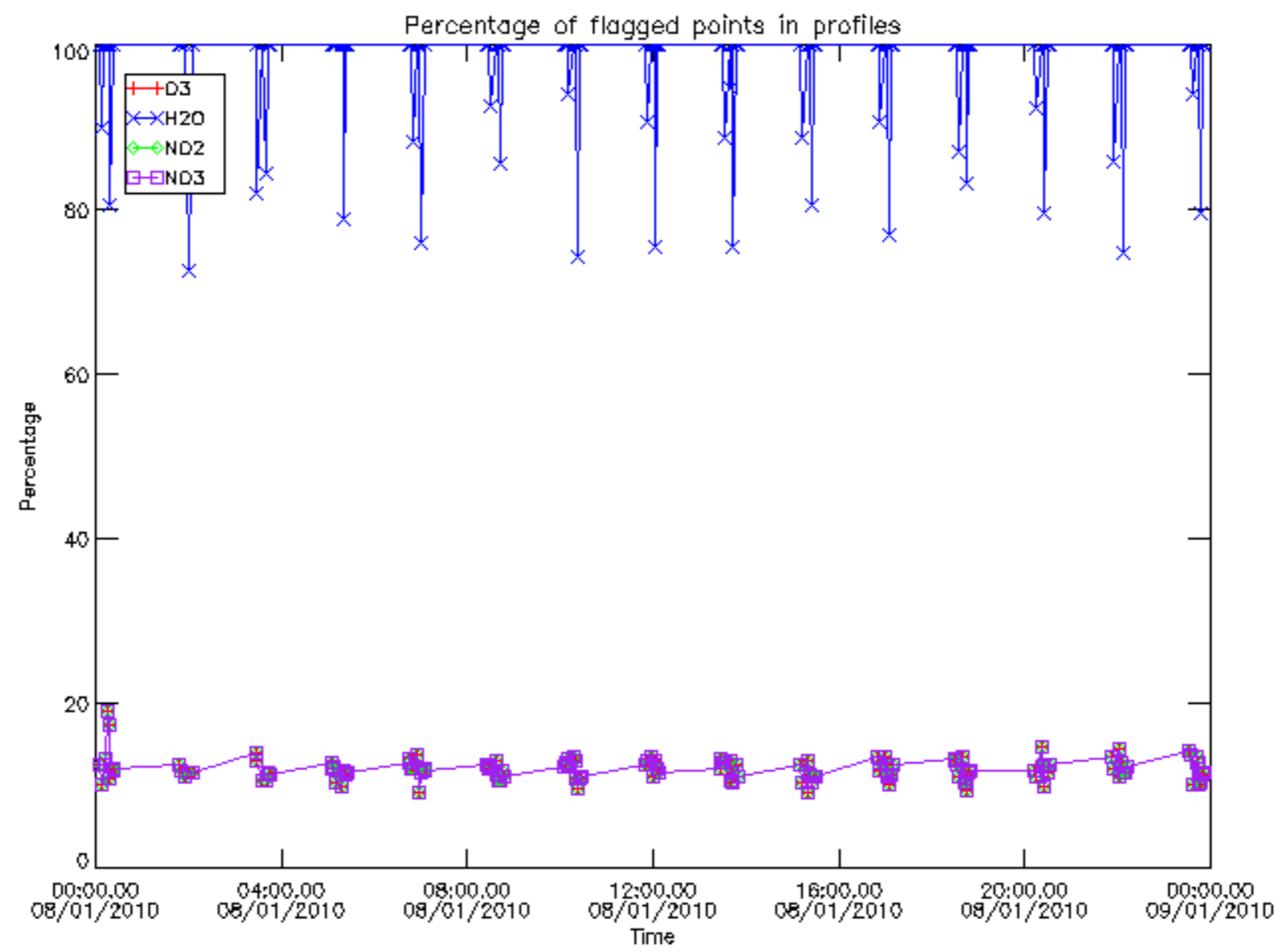




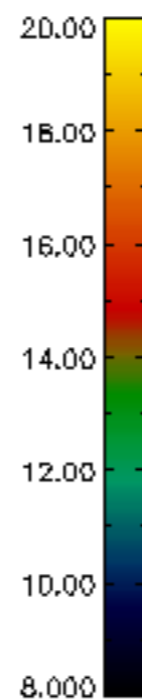
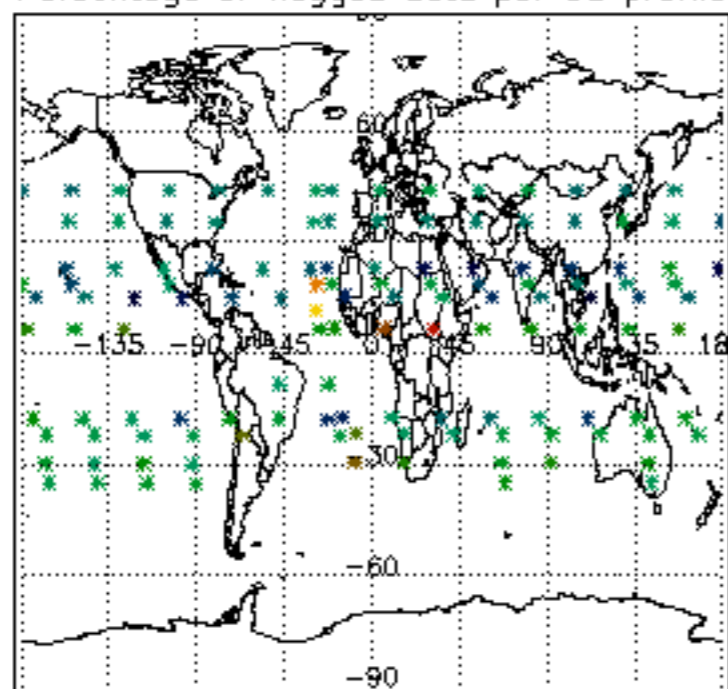




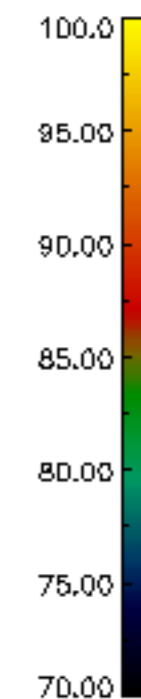
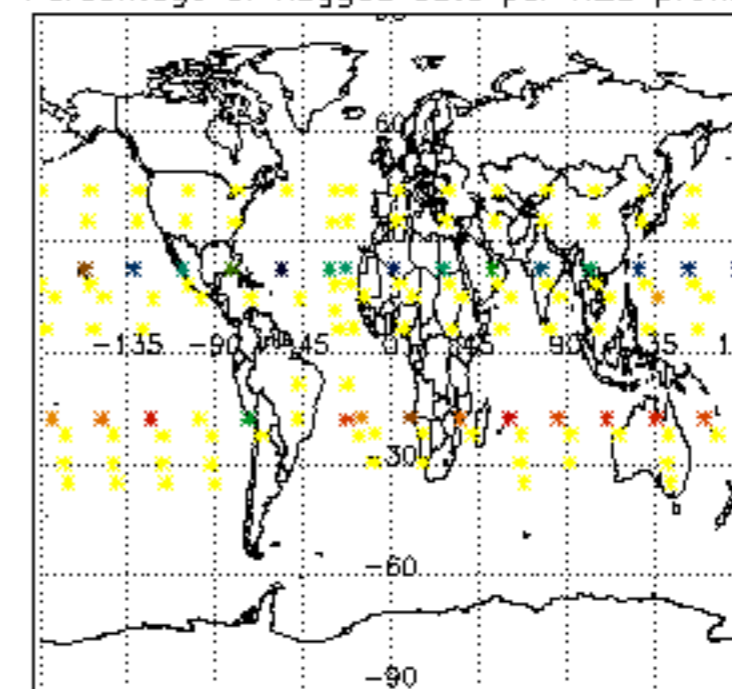




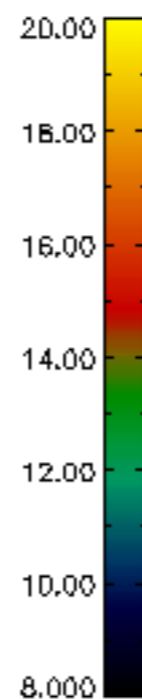
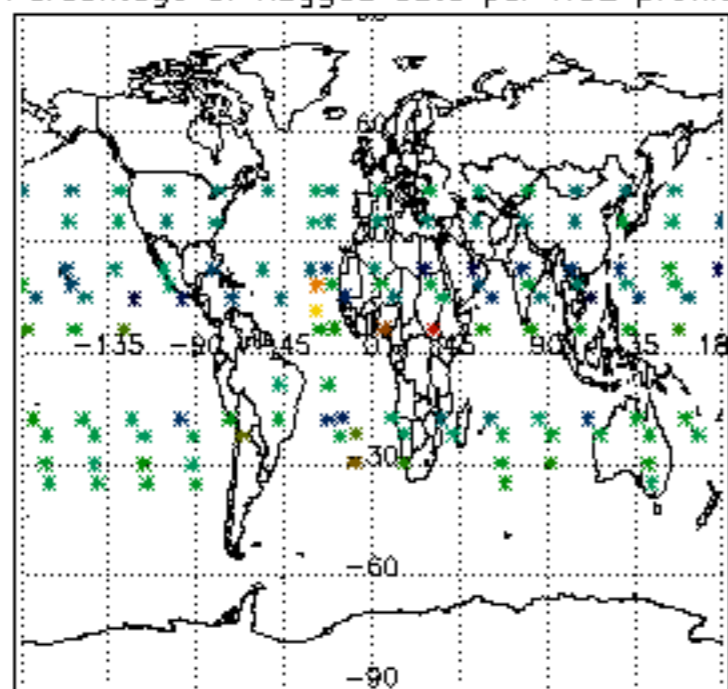
Percentage of flagged data per D3 profile



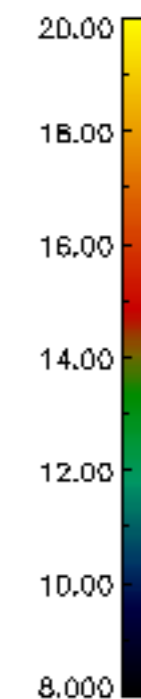
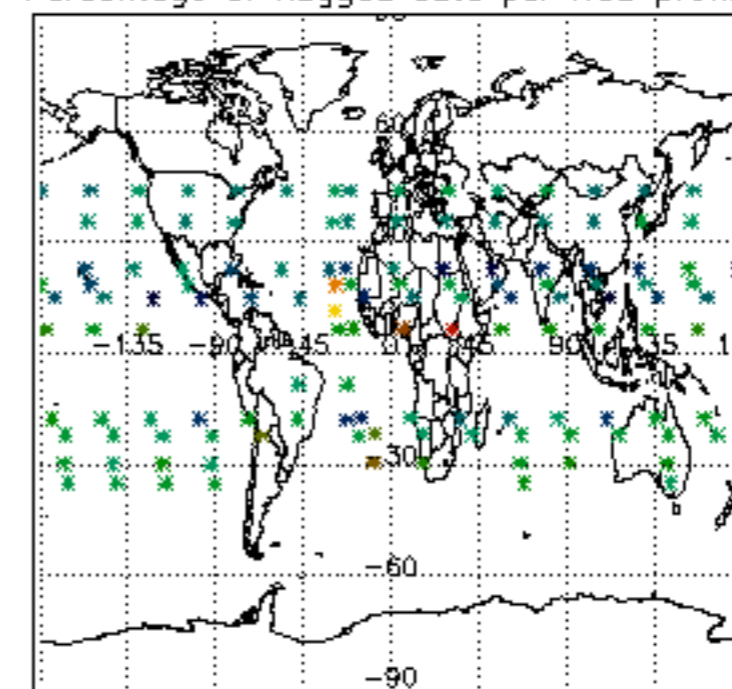
Percentage of flagged data per H2O profile

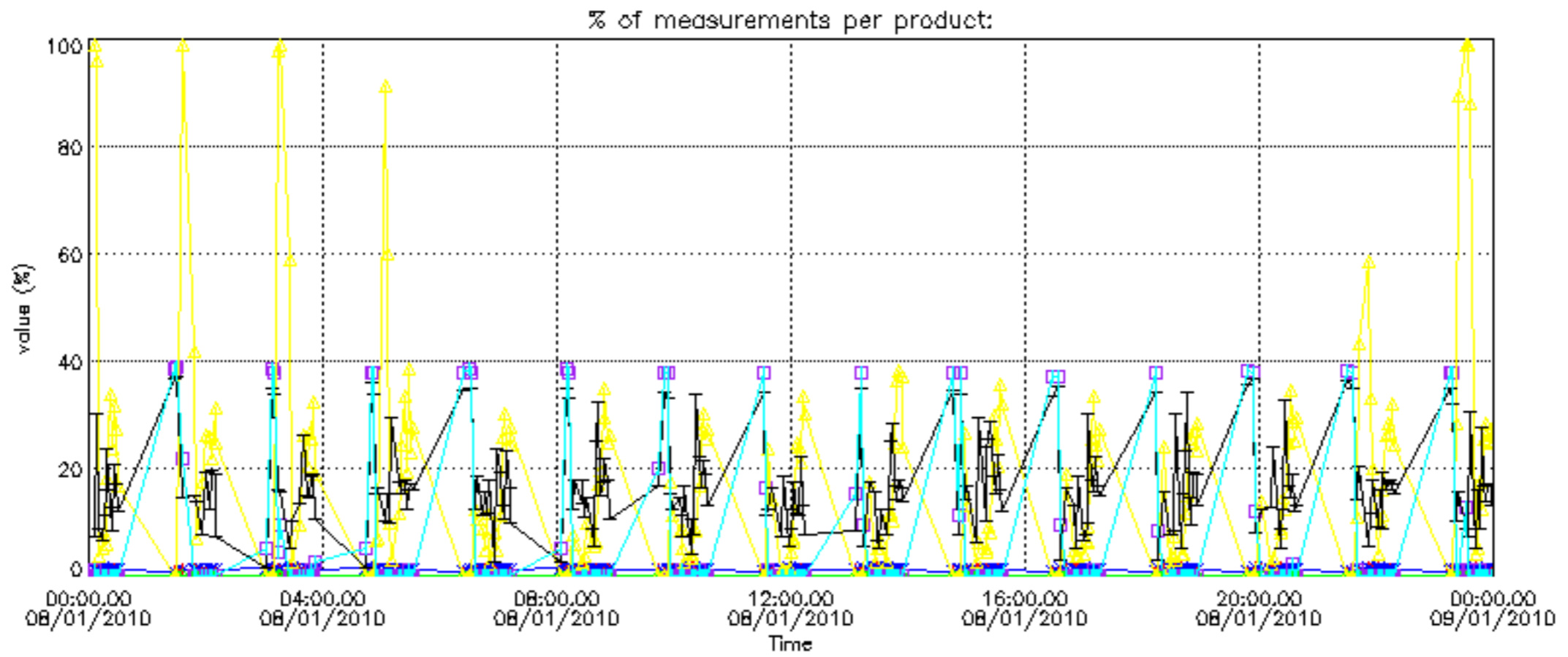


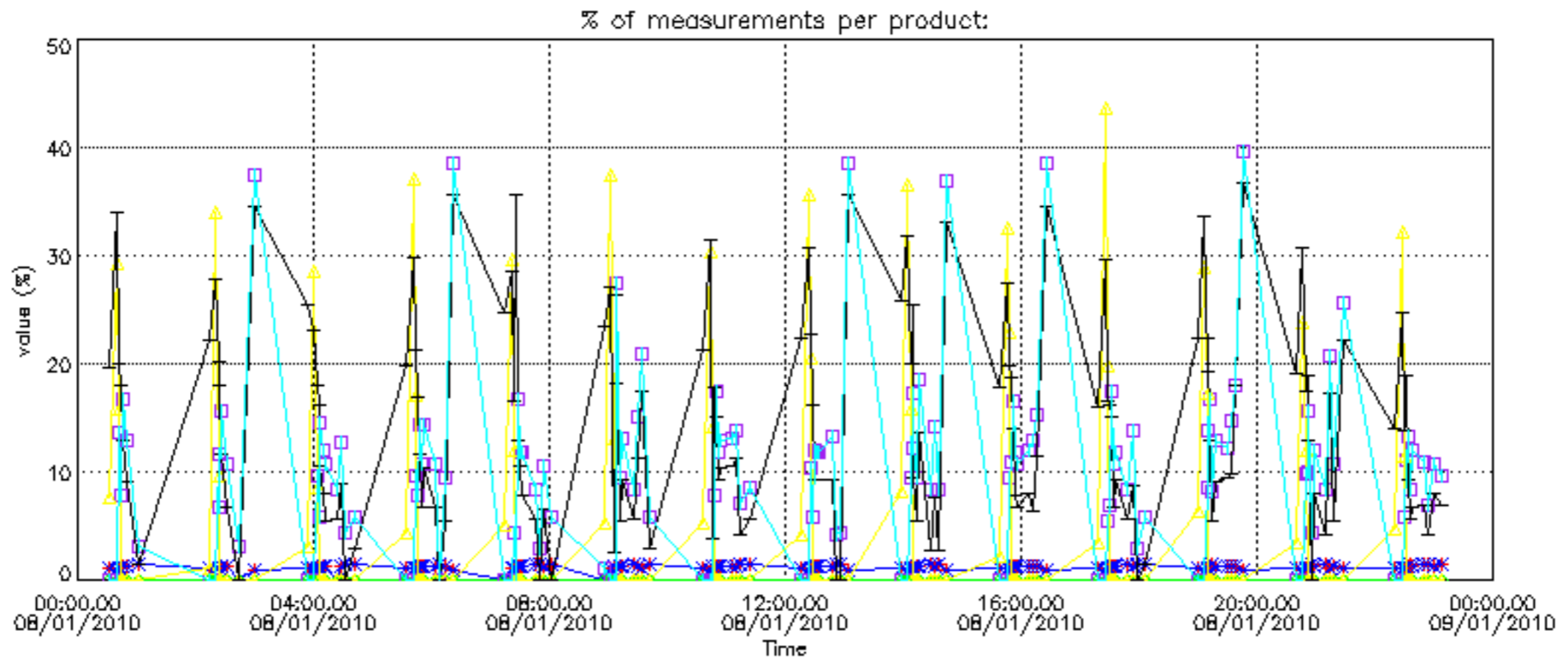
Percentage of flagged data per NO2 profile



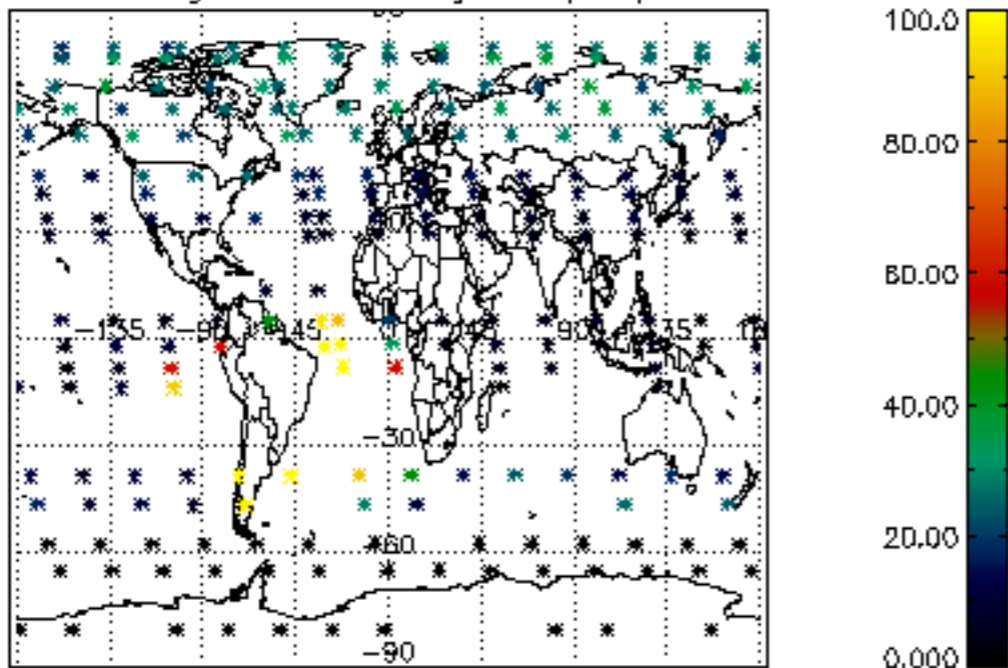
Percentage of flagged data per NO3 profile



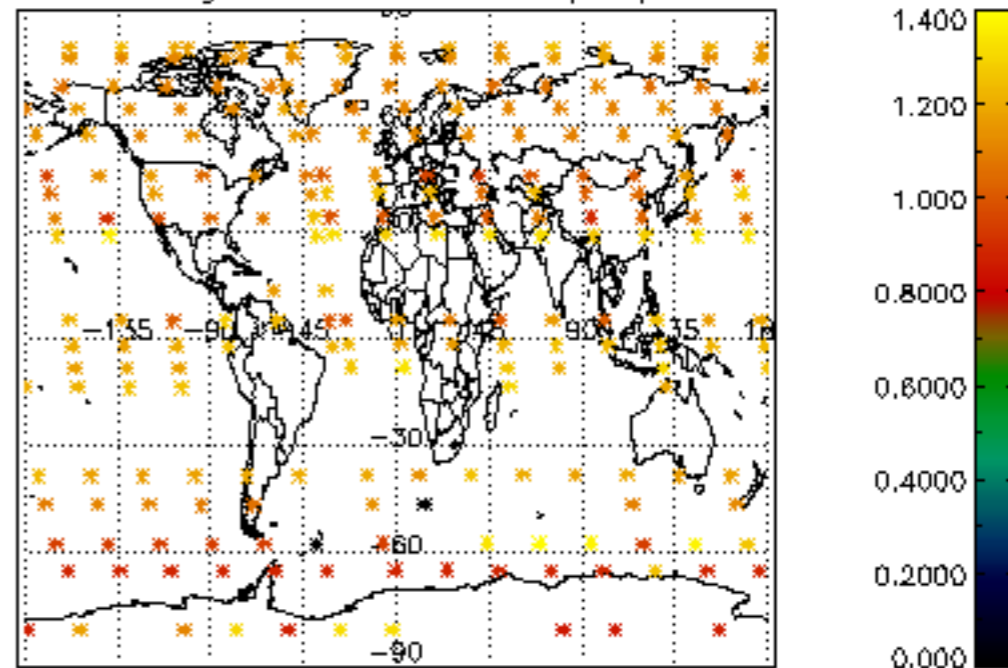




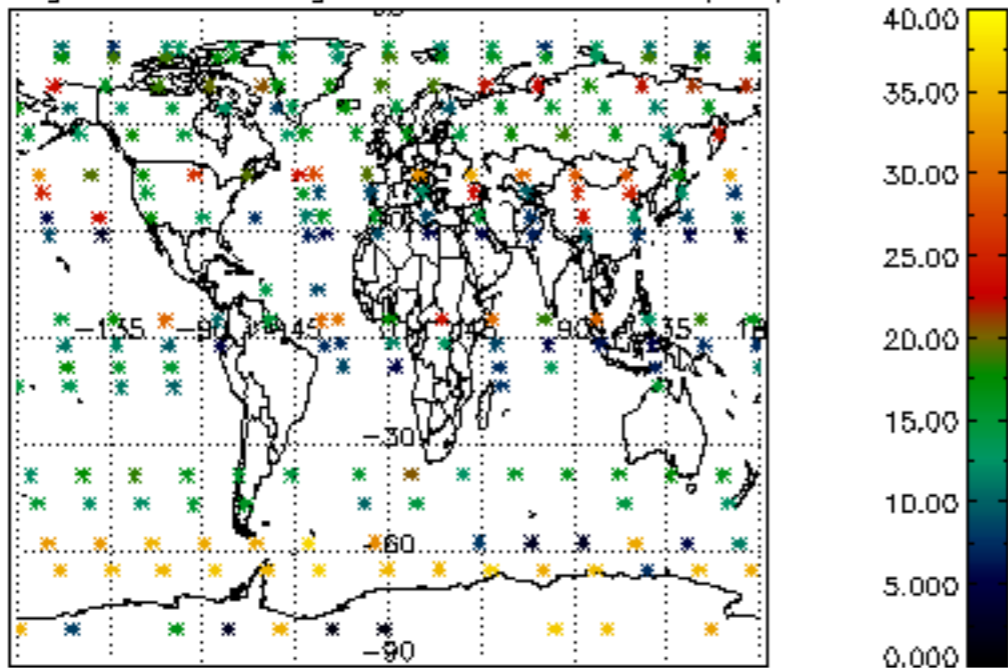
Percentage of cosmic ray hits per profile



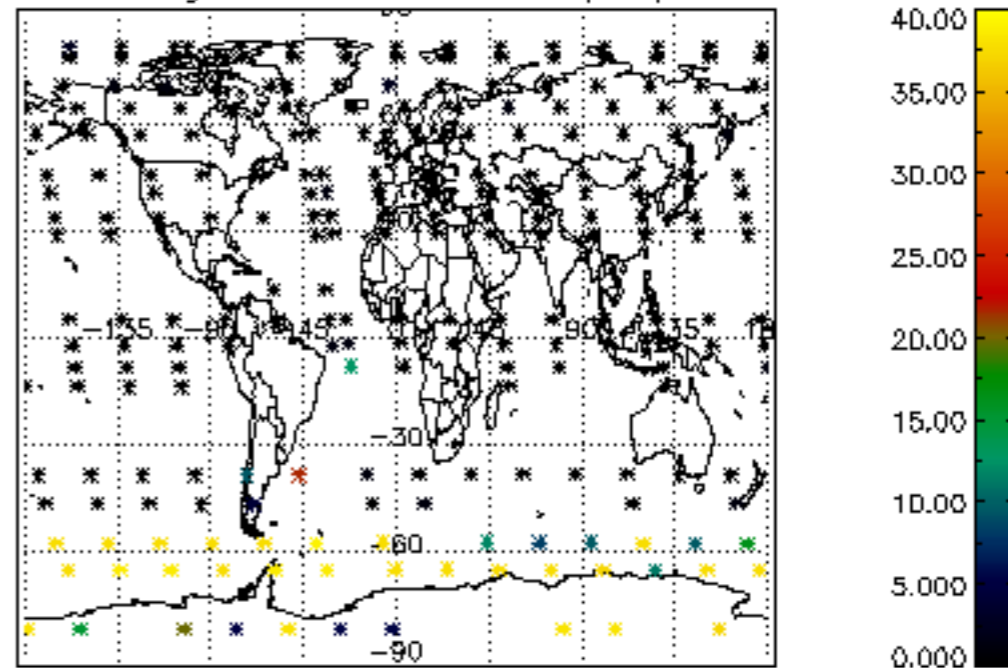
Percentage of datation errors per profile



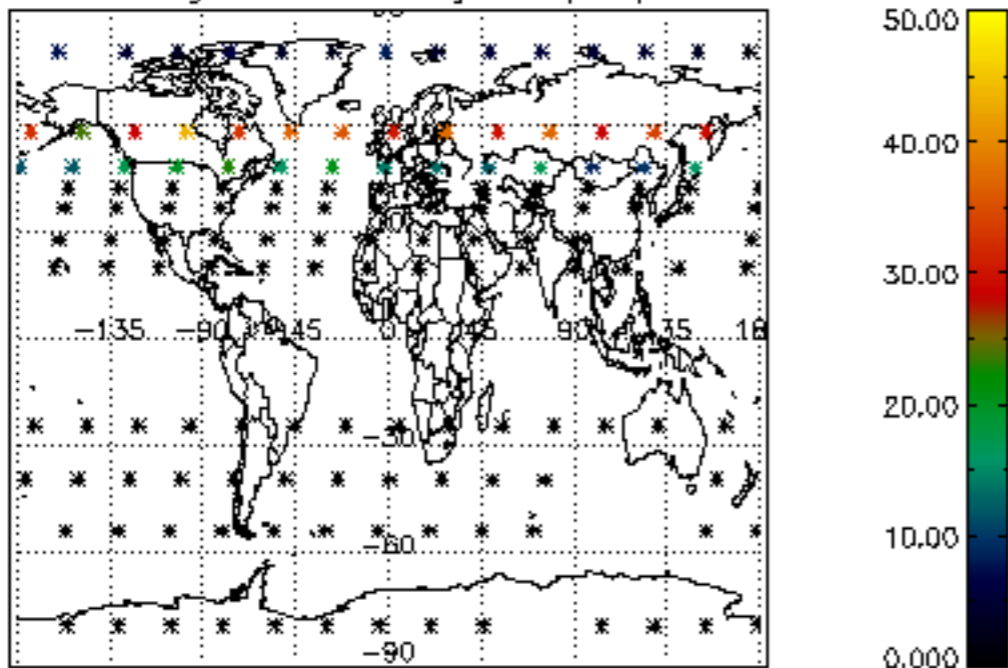
Percentage of star falling outside central band per profile



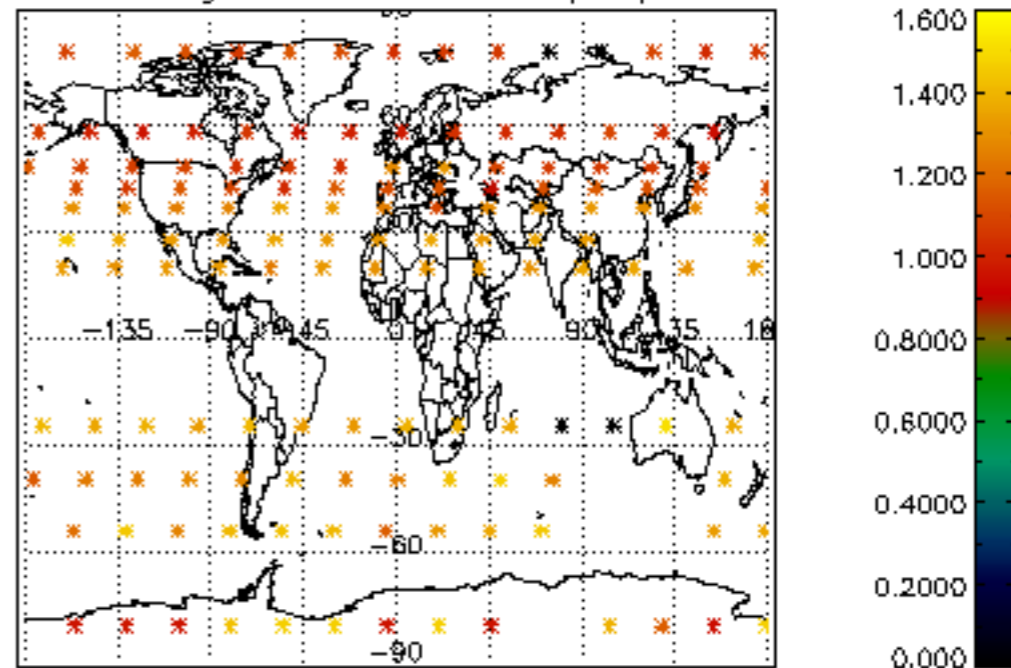
Percentage of saturation errors per profile



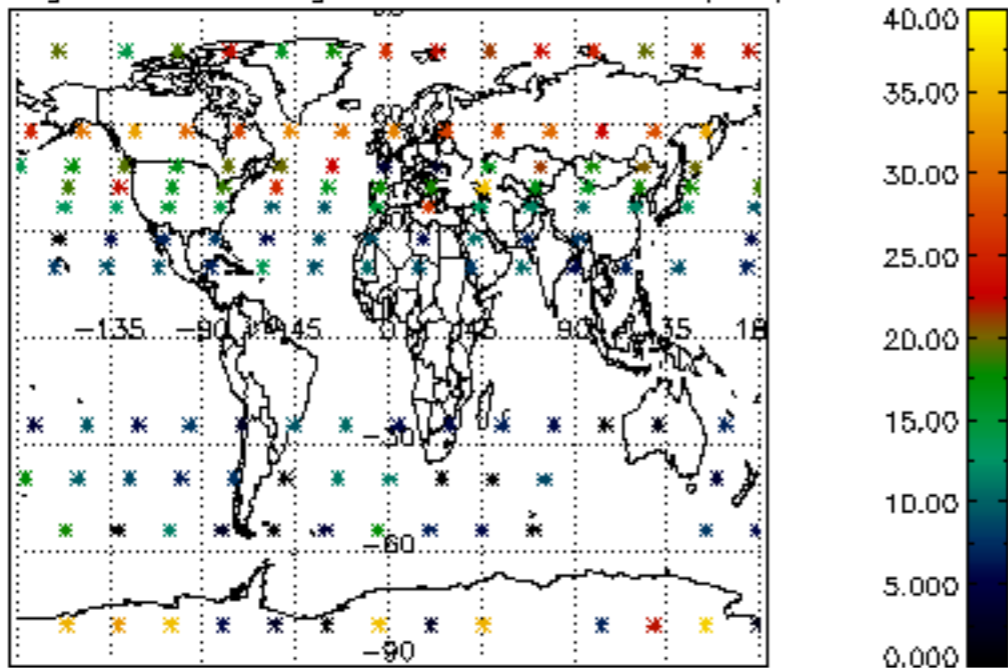
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

