

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 06:45:15
Data source version	GOMOS/6.01
Start time of products	20-12-2006 (20DEC2006 00:00:00)
Stop time of products	21-12-2006 (21DEC2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	326
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

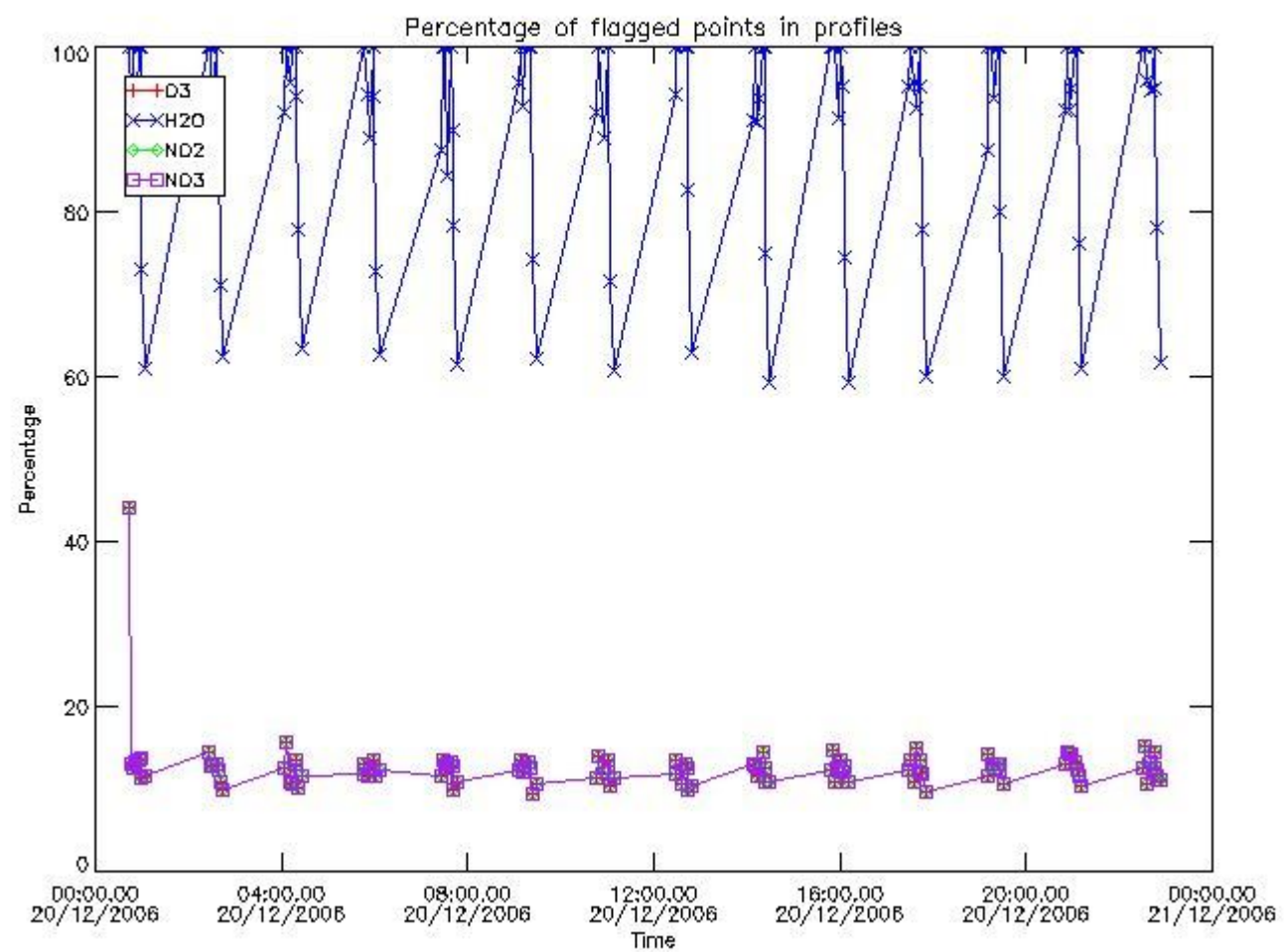
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061220_000539_000000342054_00016_25120_0636.N1	20-DEC-2006 00:05:39	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25120	No
2	GOM_NL__2PRFIN20061220_001019_000000372054_00016_25120_0637.N1	20-DEC-2006 00:10:19	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	25120	No
3	GOM_NL__2PRFIN20061220_001343_000000342054_00016_25120_0638.N1	20-DEC-2006 00:13:43	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	25120	No
4	GOM_NL__2PRFIN20061220_002059_000000262054_00016_25120_0639.N1	20-DEC-2006 00:20:59	Twilight	26.000	180	27Gam Boo	3.0400	8000.0	52	25120	No
5	GOM_NL__2PRFIN20061220_002417_000000372054_00016_25120_0640.N1	20-DEC-2006 00:24:17	Bright	37.000	83		2.3780	11000.0	74	25120	No
6	GOM_NL__2PRFIN20061220_002924_000000332054_00016_25120_0641.N1	20-DEC-2006 00:29:24	Bright	33.000	102	24Alp Ser	2.6000	4250.0	66	25120	No
7	GOM_NL__2PRFIN20061220_003627_000000352054_00016_25120_0642.N1	20-DEC-2006 00:36:27	Bright	35.000	122	9Alp2Lib	2.7470	9700.0	70	25120	No
8	GOM_NL__2PRFIN20061220_004258_000000462054_00016_25120_0643.N1	20-DEC-2006 00:42:58	Dark	46.000	54	5The Cen	2.0550	4500.0	92	25120	No
9	GOM_NL__2PRFIN20061220_004456_000000392054_00016_25120_0644.N1	20-DEC-2006 00:44:56	Dark	39.000	78	Alp Lup	2.3040	28000.0	78	25120	No
10	GOM_NL__2PRFIN20061220_004852_000000412054_00016_25120_0645.N1	20-DEC-2006 00:48:52	Dark	40.500	10	Bet Cen	0.61000	28000.0	81	25120	No
11	GOM_NL__2PRFIN20061220_005138_000000422054_00017_25121_0622.N1	20-DEC-2006 00:51:38	Dark	42.000	12	Alp1Cru	0.77500	30000.0	84	25121	No
12	GOM_NL__2PRFIN20061220_005636_000000382054_00017_25121_0623.N1	20-DEC-2006 00:56:36	Dark	38.000	159	Ups Car	2.9200	7200.0	76	25121	No
13	GOM_NL__2PRFIN20061220_005803_000000412054_00017_25121_0624.N1	20-DEC-2006 00:58:03	Dark	40.500	71	lot Car	2.2460	7700.0	81	25121	No
14	GOM_NL__2PRFIN20061220_005953_000000452054_00017_25121_0625.N1	20-DEC-2006 00:59:53	Dark	45.000	41	Eps Car	1.8600	4100.0	90	25121	No
15	GOM_NL__2PRFIN20061220_010437_000000442054_00017_25121_0626.N1	20-DEC-2006 01:04:37	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	25121	No
16	GOM_NL__2PRFIN20061220_011033_000000392054_00017_25121_0627.N1	20-DEC-2006 01:10:33	Straylight	39.000	108	Alp Col	2.6520	15200.0	78	25121	No
17	GOM_NL__2PRFIN20061220_011525_000000432054_00017_25121_0628.N1	20-DEC-2006 01:15:25	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	25121	No
18	GOM_NL__2PRFIN20061220_011825_000000442054_00017_25121_0629.N1	20-DEC-2006 01:18:25	Straylight	44.000	7	19Bet Ori	0.10000	14000.0	88	25121	No
19	GOM_NL__2PRFIN20061220_012541_000000522054_00017_25121_0630.N1	20-DEC-2006 01:25:41	Twilight	51.500	13	87Alp Tau	0.86700	3800.0	103	25121	No
20	GOM_NL__2PRFIN20061220_012800_000000352054_00017_25121_0631.N1	20-DEC-2006 01:28:00	Bright	35.000	146	25Eta Tau	2.8730	15200.0	70	25121	No
21	GOM_NL__2PRFIN20061220_013006_000000352054_00017_25121_0632.N1	20-DEC-2006 01:30:06	Bright	35.000	150	44Zet Per	2.8900	28000.0	70	25121	No
22	GOM_NL__2PRFIN20061220_013222_000000352054_00017_25121_0633.N1	20-DEC-2006 01:32:22	Bright	34.500	149	45Eps Per	2.8880	30000.0	69	25121	No
23	GOM_NL__2PRFIN20061220_013435_000000342054_00017_25121_0634.N1	20-DEC-2006 01:34:35	Bright	34.000	175	39Del Per	3.0100	19400.0	68	25121	No
24	GOM_NL__2PRFIN20061220_013627_000000352054_00017_25121_0635.N1	20-DEC-2006 01:36:27	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	25121	No
25	GOM_NL__2PRFIN20061220_014615_000000362054_00017_25121_0636.N1	20-DEC-2006 01:46:15	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25121	No
26	GOM_NL__2PRFIN20061220_015055_000000372054_00017_25121_0637.N1	20-DEC-2006 01:50:55	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	25121	No
27	GOM_NL__2PRFIN20061220_015420_000000352054_00017_25121_0638.N1	20-DEC-2006 01:54:20	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	25121	No
28	GOM_NL__2PRFIN20061220_020135_000000262054_00017_25121_0639.N1	20-DEC-2006 02:01:35	Twilight	26.000	180	27Gam Boo	3.0400	8000.0	52	25121	No
29	GOM_NL__2PRFIN20061220_020453_000000552054_00017_25121_0640.N1	20-DEC-2006 02:04:53	Bright	55.000	83		2.3780	11000.0	110	25121	No
30	GOM_NL__2PRFIN20061220_021000_000000332054_00017_25121_0641.N1	20-DEC-2006 02:10:00	Bright	32.500	102	24Alp Ser	2.6000	4250.0	65	25121	No
31	GOM_NL__2PRFIN20061220_021703_000000372054_00017_25121_0642.N1	20-DEC-2006 02:17:03	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	25121	No
32	GOM_NL__2PRFIN20061220_022532_000000392054_00017_25121_0643.N1	20-DEC-2006 02:25:32	Dark	39.000	78	Alp Lup	2.3040	28000.0	78	25121	No
33	GOM_NL__2PRFIN20061220_022928_000000402054_00017_25121_0644.N1	20-DEC-2006 02:29:28	Dark	40.000	10	Bet Cen	0.61000	28000.0	80	25121	No
34	GOM_NL__2PRFIN20061220_023214_000000402054_00018_25122_0622.N1	20-DEC-2006 02:32:14	Dark	40.000	12	Alp1Cru	0.77500	30000.0	80	25122	No
35	GOM_NL__2PRFIN20061220_023712_000000392054_00018_25122_0623.N1	20-DEC-2006 02:37:12	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25122	No
36	GOM_NL__2PRFIN20061220_023839_000000422054_00018_25122_0624.N1	20-DEC-2006 02:38:39	Dark	41.500	71	lot Car	2.2460	7700.0	83	25122	No
37	GOM_NL__2PRFIN20061220_024030_000000472054_00018_25122_0625.N1	20-DEC-2006 02:40:30	Dark	47.000	41	Eps Car	1.8600	4100.0	94	25122	No
38	GOM_NL__2PRFIN20061220_024513_000000512054_00018_25122_0626.N1	20-DEC-2006 02:45:13	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	25122	No
39	GOM_NL__2PRFIN20061220_025109_000000412054_00018_25122_0627.N1	20-DEC-2006 02:51:09	Straylight	41.000	108	Alp Col	2.6520	15200.0	82	25122	No
40	GOM_NL__2PRFIN20061220_025601_000000442054_00018_25122_0628.N1	20-DEC-2006 02:56:01	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	25122	No
41	GOM_NL__2PRFIN20061220_025901_000000502054_00018_25122_0629.N1	20-DEC-2006 02:59:01	Straylight	50.000	7	19Bet Ori	0.10000	14000.0	100	25122	No
42	GOM_NL__2PRFIN20061220_030617_000000512054_00018_25122_0630.N1	20-DEC-2006 03:06:17	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	25122	No

279	GOM_NL__2PRFIN20061220_203130_000000362054_00028_25132_0659.N1	20-DEC-2006 20:31:30	Bright	36.000	83		2.3780	11000.	72	25132	No
280	GOM_NL__2PRFIN20061220_203638_000000342054_00028_25132_0660.N1	20-DEC-2006 20:36:38	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25132	No
281	GOM_NL__2PRFIN20061220_204342_000000532054_00028_25132_0661.N1	20-DEC-2006 20:43:42	Bright	53.000	122	9Alp2Lib	2.7470	9700.0	106	25132	No
282	GOM_NL__2PRFIN20061220_205015_000000392054_00028_25132_0662.N1	20-DEC-2006 20:50:15	Dark	39.000	54	5The Cen	2.0550	4500.0	78	25132	No
283	GOM_NL__2PRFIN20061220_205210_000000362054_00028_25132_0663.N1	20-DEC-2006 20:52:10	Dark	35.500	78	Alp Lup	2.3040	28000.	71	25132	No
284	GOM_NL__2PRFIN20061220_205606_000000402054_00028_25132_0664.N1	20-DEC-2006 20:56:06	Dark	39.500	10	Bet Cen	0.61000	28000.	79	25132	No
285	GOM_NL__2PRFIN20061220_205854_000000402054_00029_25133_0662.N1	20-DEC-2006 20:58:54	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25133	No
286	GOM_NL__2PRFIN20061220_210353_000000392054_00029_25133_0663.N1	20-DEC-2006 21:03:53	Dark	38.500	159	Ups Car	2.9200	7200.0	77	25133	No
287	GOM_NL__2PRFIN20061220_210521_000000422054_00029_25133_0664.N1	20-DEC-2006 21:05:21	Dark	41.500	71	lot Car	2.2460	7700.0	83	25133	No
288	GOM_NL__2PRFIN20061220_210711_000000452054_00029_25133_0665.N1	20-DEC-2006 21:07:11	Dark	44.500	41	Eps Car	1.8600	4100.0	89	25133	No
289	GOM_NL__2PRFIN20061220_211152_000000492054_00029_25133_0666.N1	20-DEC-2006 21:11:52	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	25133	No
290	GOM_NL__2PRFIN20061220_211747_000000402054_00029_25133_0667.N1	20-DEC-2006 21:17:47	Straylight	40.000	108	Alp Col	2.6520	15200.	80	25133	No
291	GOM_NL__2PRFIN20061220_212238_000000422054_00029_25133_0668.N1	20-DEC-2006 21:22:38	Straylight	42.000	101	11Alp Lep	2.5820	7000.0	84	25133	No
292	GOM_NL__2PRFIN20061220_212537_000000472054_00029_25133_0669.N1	20-DEC-2006 21:25:37	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	25133	No
293	GOM_NL__2PRFIN20061220_213252_000000472054_00029_25133_0670.N1	20-DEC-2006 21:32:52	Tw_i_and_stray	46.500	13	87Alp Tau	0.86700	3800.0	93	25133	No
294	GOM_NL__2PRFIN20061220_213512_000000352054_00029_25133_0671.N1	20-DEC-2006 21:35:12	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	25133	No
295	GOM_NL__2PRFIN20061220_213719_000000372054_00029_25133_0672.N1	20-DEC-2006 21:37:19	Bright	36.500	150	44Zet Per	2.8900	28000.	73	25133	No
296	GOM_NL__2PRFIN20061220_213933_000000342054_00029_25133_0673.N1	20-DEC-2006 21:39:33	Bright	34.000	149	45Eps Per	2.8880	30000.	68	25133	No
297	GOM_NL__2PRFIN20061220_214147_000000342054_00029_25133_0674.N1	20-DEC-2006 21:41:47	Bright	34.000	175	39Del Per	3.0100	19400.	68	25133	No
298	GOM_NL__2PRFIN20061220_214340_000000352054_00029_25133_0675.N1	20-DEC-2006 21:43:40	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	25133	No
299	GOM_NL__2PRFIN20061220_215326_000000342054_00029_25133_0676.N1	20-DEC-2006 21:53:26	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25133	No
300	GOM_NL__2PRFIN20061220_215806_000000352054_00029_25133_0677.N1	20-DEC-2006 21:58:06	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	25133	No
301	GOM_NL__2PRFIN20061220_220132_000000362054_00029_25133_0678.N1	20-DEC-2006 22:01:32	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	25133	No
302	GOM_NL__2PRFIN20061220_221206_000000552054_00029_25133_0679.N1	20-DEC-2006 22:12:06	Bright	55.000	83		2.3780	11000.	110	25133	No
303	GOM_NL__2PRFIN20061220_221714_000000342054_00029_25133_0680.N1	20-DEC-2006 22:17:14	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25133	No
304	GOM_NL__2PRFIN20061220_222419_000000362054_00029_25133_0681.N1	20-DEC-2006 22:24:19	Bright	35.500	122	9Alp2Lib	2.7470	9700.0	71	25133	No
305	GOM_NL__2PRFIN20061220_223051_000000412054_00029_25133_0682.N1	20-DEC-2006 22:30:51	Dark	41.000	54	5The Cen	2.0550	4500.0	82	25133	No
306	GOM_NL__2PRFIN20061220_223247_000000372054_00029_25133_0683.N1	20-DEC-2006 22:32:47	Dark	37.000	78	Alp Lup	2.3040	28000.	74	25133	No
307	GOM_NL__2PRFIN20061220_223642_000000482054_00029_25133_0684.N1	20-DEC-2006 22:36:42	Dark	48.000	10	Bet Cen	0.61000	28000.	96	25133	No
308	GOM_NL__2PRFIN20061220_223930_000000392054_00030_25134_0662.N1	20-DEC-2006 22:39:30	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	25134	No
309	GOM_NL__2PRFIN20061220_224429_000000392054_00030_25134_0663.N1	20-DEC-2006 22:44:29	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25134	No
310	GOM_NL__2PRFIN20061220_224557_000000412054_00030_25134_0664.N1	20-DEC-2006 22:45:57	Dark	40.500	71	lot Car	2.2460	7700.0	81	25134	No
311	GOM_NL__2PRFIN20061220_224747_000000442054_00030_25134_0665.N1	20-DEC-2006 22:47:47	Dark	44.000	41	Eps Car	1.8600	4100.0	88	25134	No
312	GOM_NL__2PRFIN20061220_225229_000000462054_00030_25134_0666.N1	20-DEC-2006 22:52:29	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	25134	No
313	GOM_NL__2PRFIN20061220_225823_000000392054_00030_25134_0667.N1	20-DEC-2006 22:58:23	Straylight	39.000	108	Alp Col	2.6520	15200.	78	25134	No
314	GOM_NL__2PRFIN20061220_230314_000000412054_00030_25134_0668.N1	20-DEC-2006 23:03:14	Straylight	41.000	101	11Alp Lep	2.5820	7000.0	82	25134	No
315	GOM_NL__2PRFIN20061220_230613_000000522054_00030_25134_0669.N1	20-DEC-2006 23:06:13	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	25134	No
316	GOM_NL__2PRFIN20061220_231328_000000492054_00030_25134_0670.N1	20-DEC-2006 23:13:28	Tw_i_and_stray	48.500	13	87Alp Tau	0.86700	3800.0	97	25134	No
317	GOM_NL__2PRFIN20061220_231548_000000352054_00030_25134_0671.N1	20-DEC-2006 23:15:48	Bright	34.500	146	25Eta Tau	2.8730	15200.	69	25134	No
318	GOM_NL__2PRFIN20061220_231754_000000352054_00030_25134_0672.N1	20-DEC-2006 23:17:54	Bright	34.500	150	44Zet Per	2.8900	28000.	69	25134	No
319	GOM_NL__2PRFIN20061220_232009_000000342054_00030_25134_0673.N1	20-DEC-2006 23:20:09	Bright	33.500	149	45Eps Per	2.8880	30000.	67	25134	No
320	GOM_NL__2PRFIN20061220_232223_000000342054_00030_25134_0674.N1	20-DEC-2006 23:22:23	Bright	34.000	175	39Del Per	3.0100	19400.	68	25134	No
321	GOM_NL__2PRFIN20061220_232416_000000352054_00030_25134_0675.N1	20-DEC-2006 23:24:16	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	25134	No
322	GOM_NL__2PRFIN20061220_233401_000000352054_00030_25134_0676.N1	20-DEC-2006 23:34:01	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25134	No
323	GOM_NL__2PRFIN20061220_233842_000000382054_00030_25134_0677.N1	20-DEC-2006 23:38:42	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25134	No
324	GOM_NL__2PRFIN20061220_234208_000000362054_00030_25134_0678.N1	20-DEC-2006 23:42:08	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	25134	No
325	GOM_NL__2PRFIN20061220_235242_000000382054_00030_25134_0679.N1	20-DEC-2006 23:52:42	Bright	37.500	83		2.3780	11000.	75	25134	No
326	GOM_NL__2PRFIN20061220_235750_000000342054_00030_25134_0680.N1	20-DEC-2006 23:57:50	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25134	No

3. Quality information per product

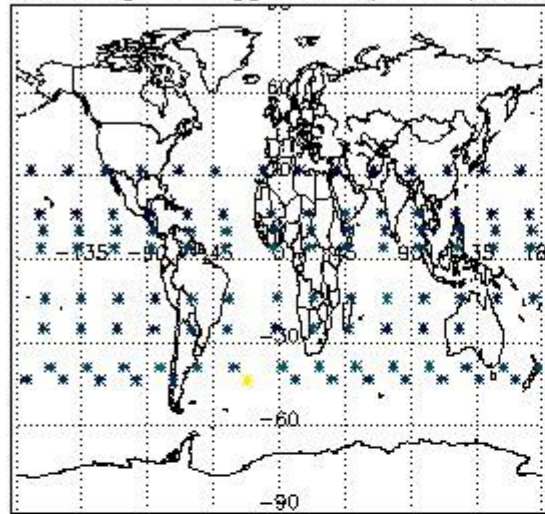
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

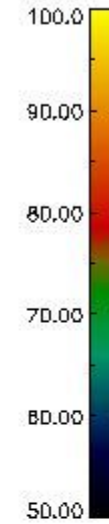
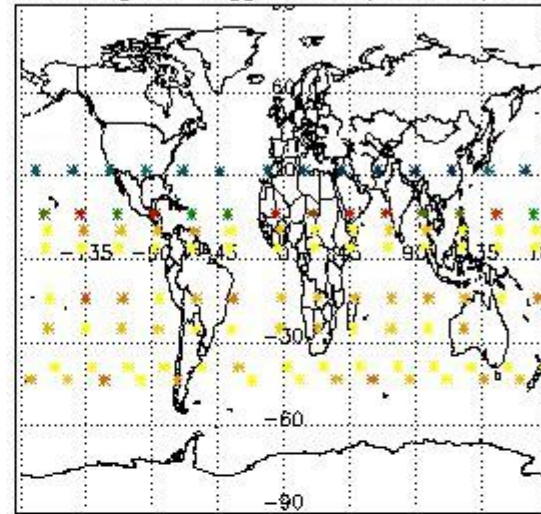


3.2 Plot quality information per product (world map)

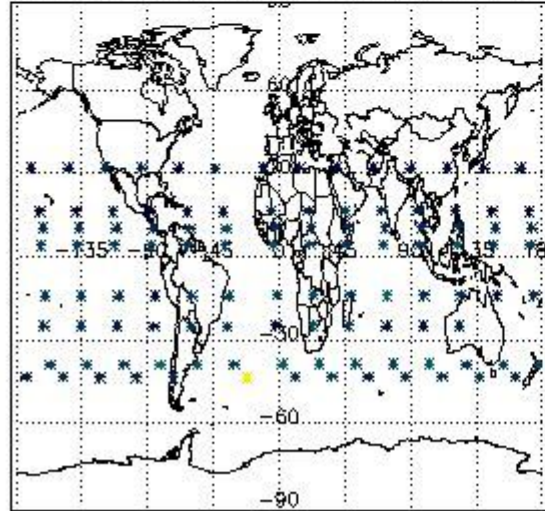
Percentage of flagged data per O3 profile



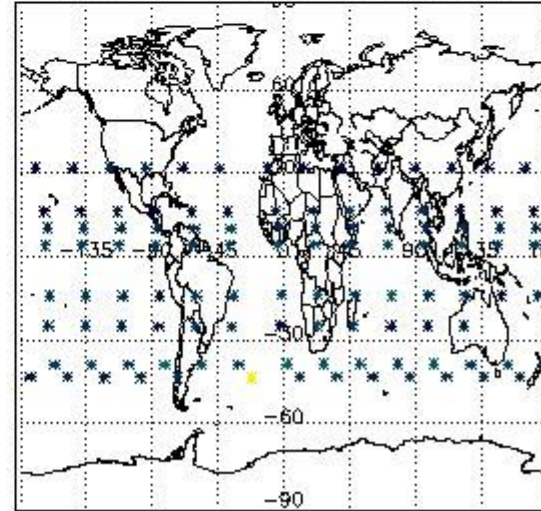
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

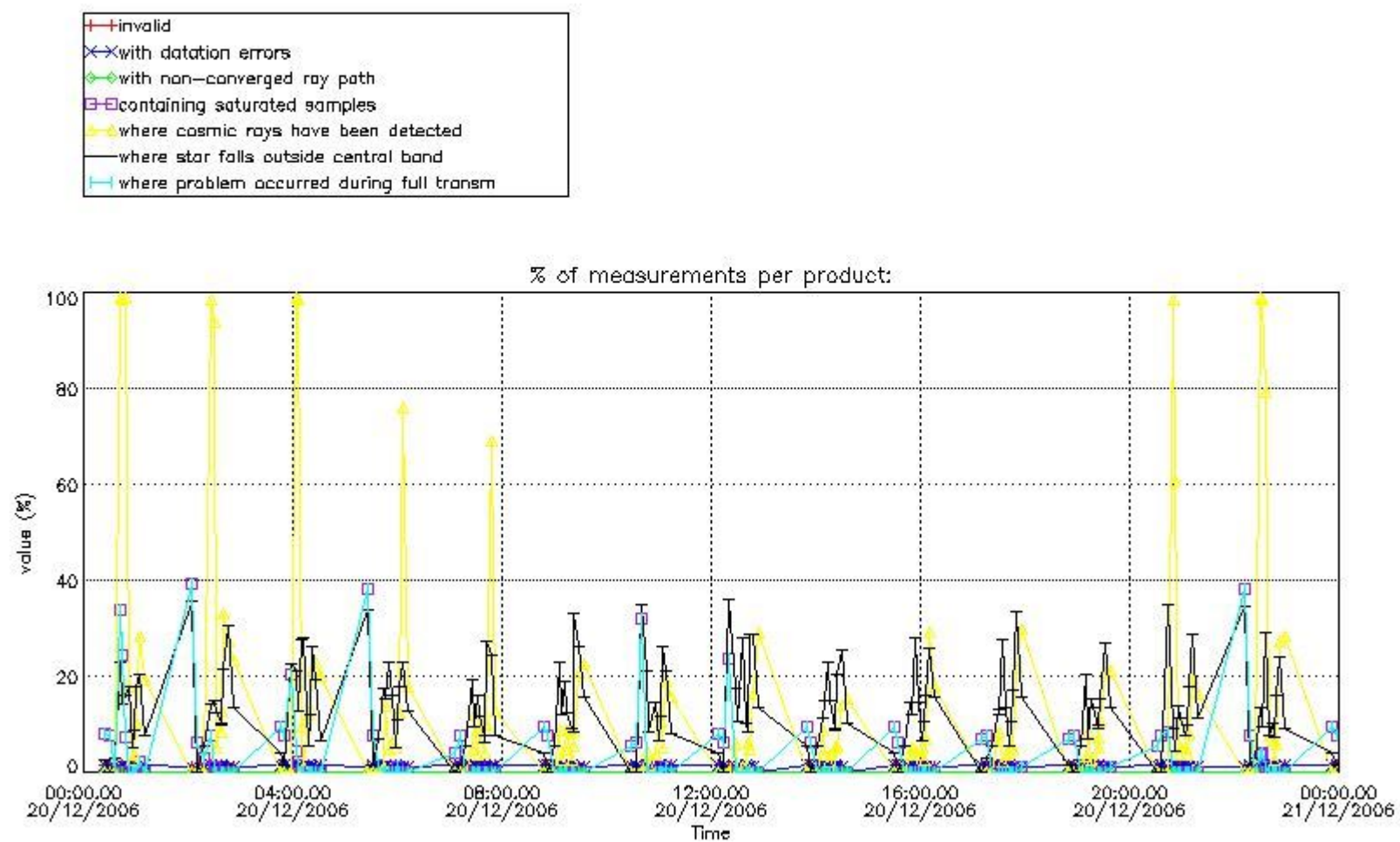


4. Level 1 quality information per product

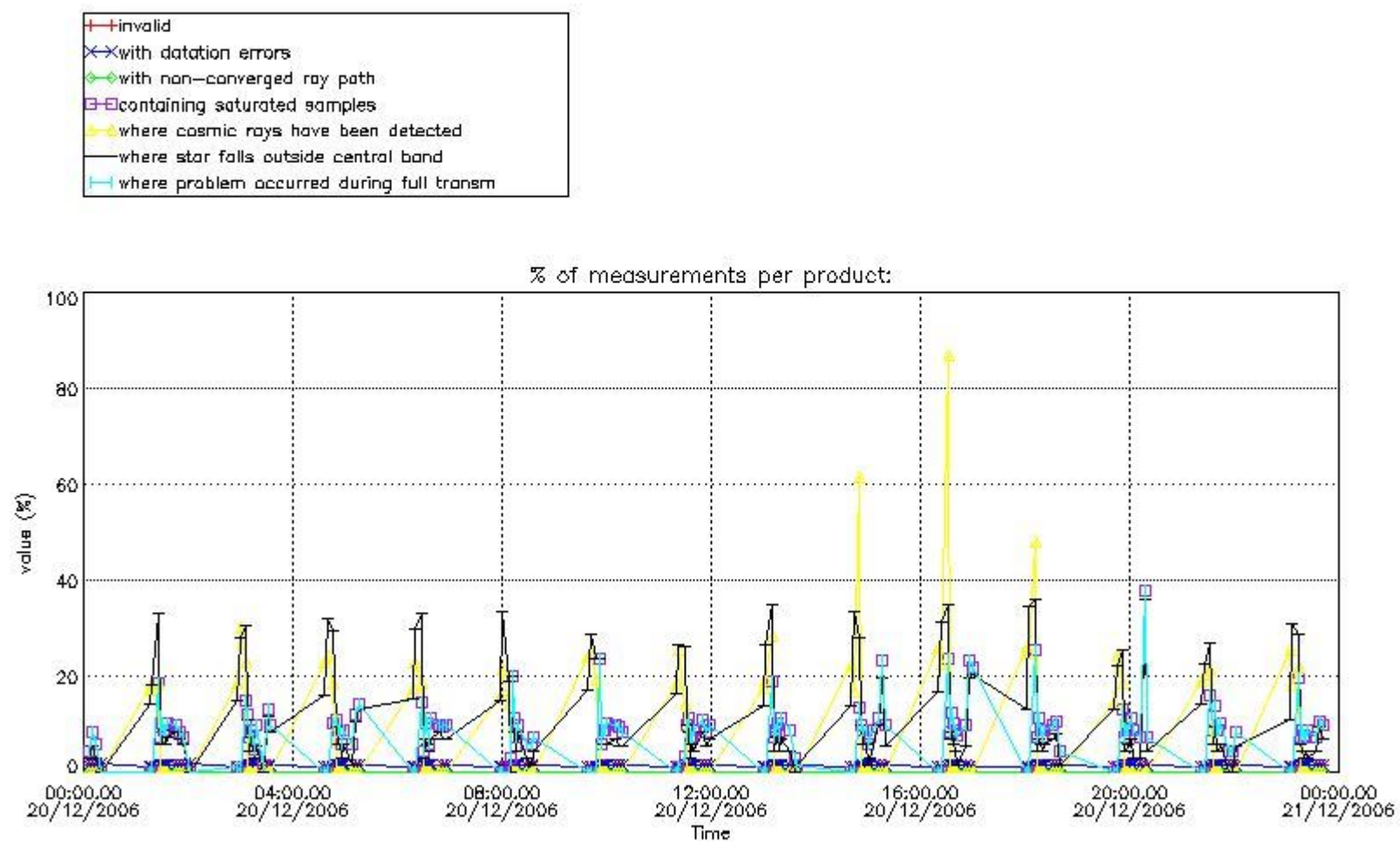
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

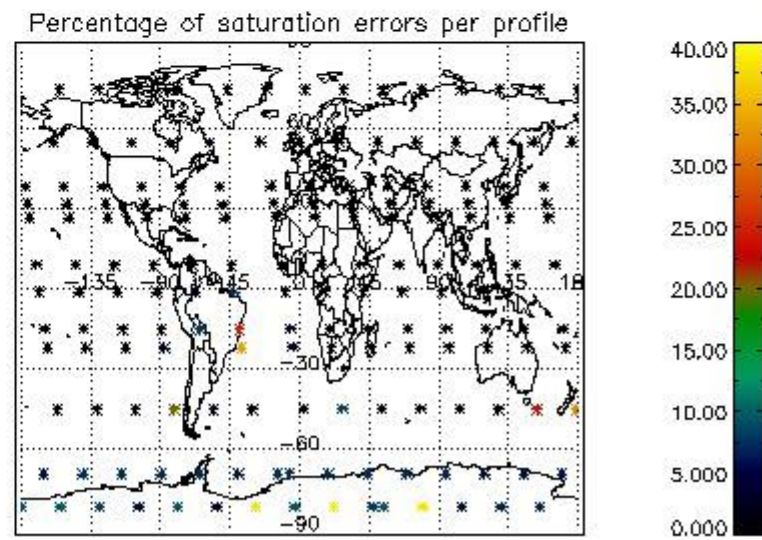
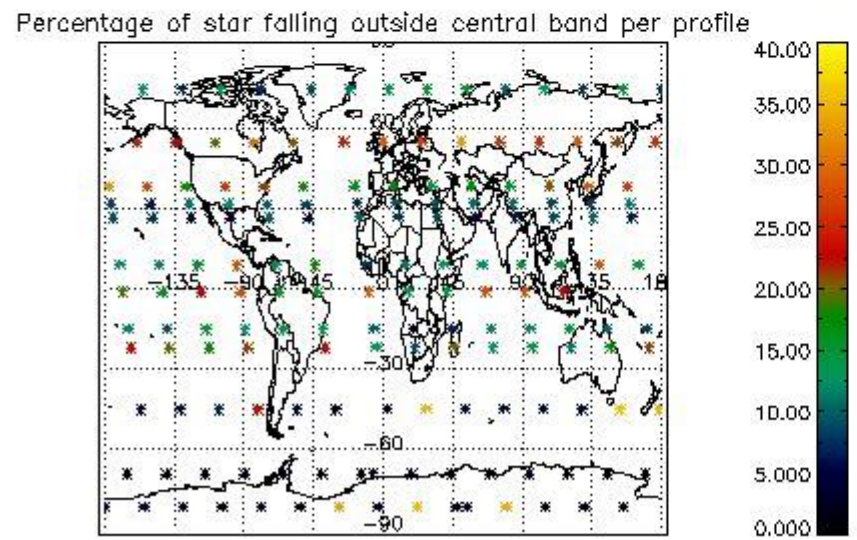
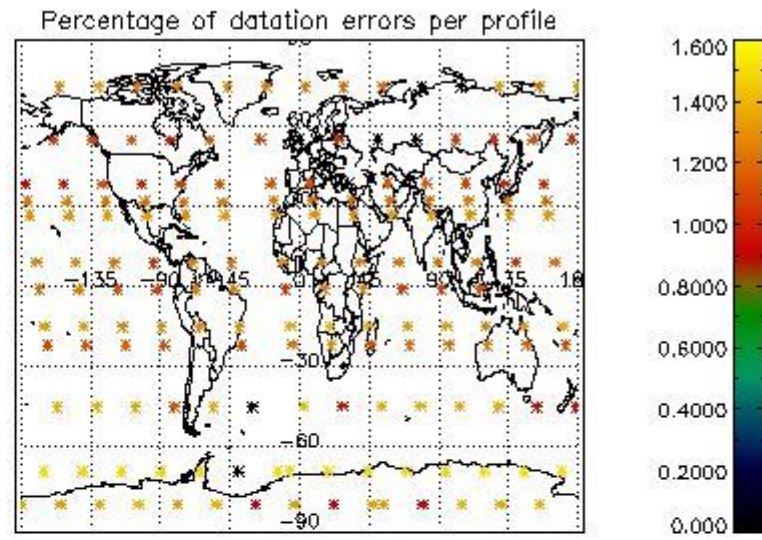
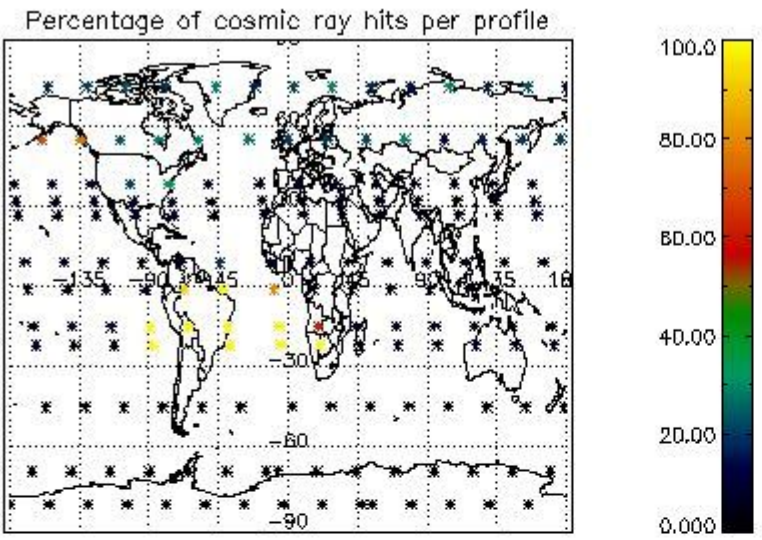


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

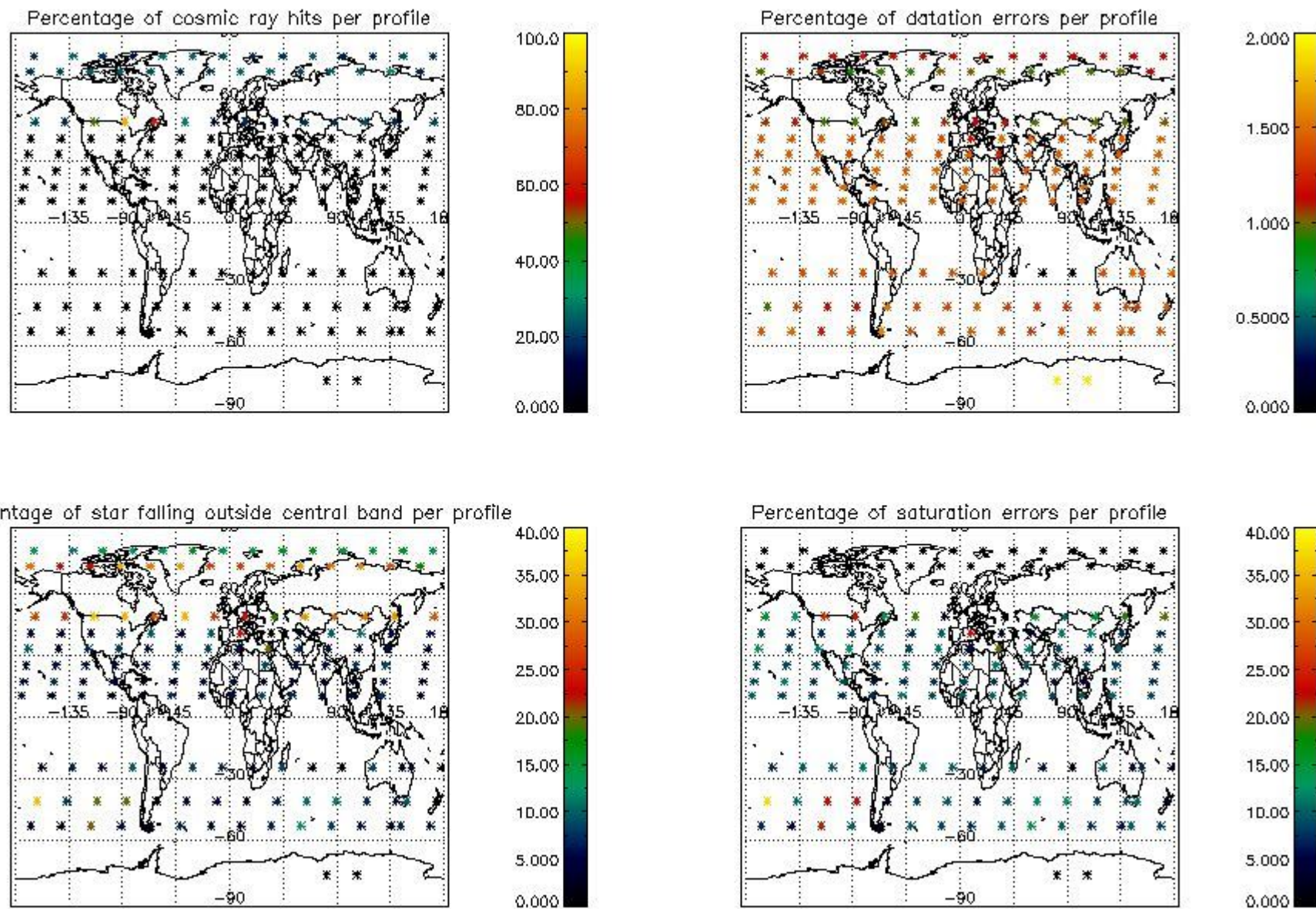


4.2 Plot quality information per product coming from level 1b processing (world map)

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

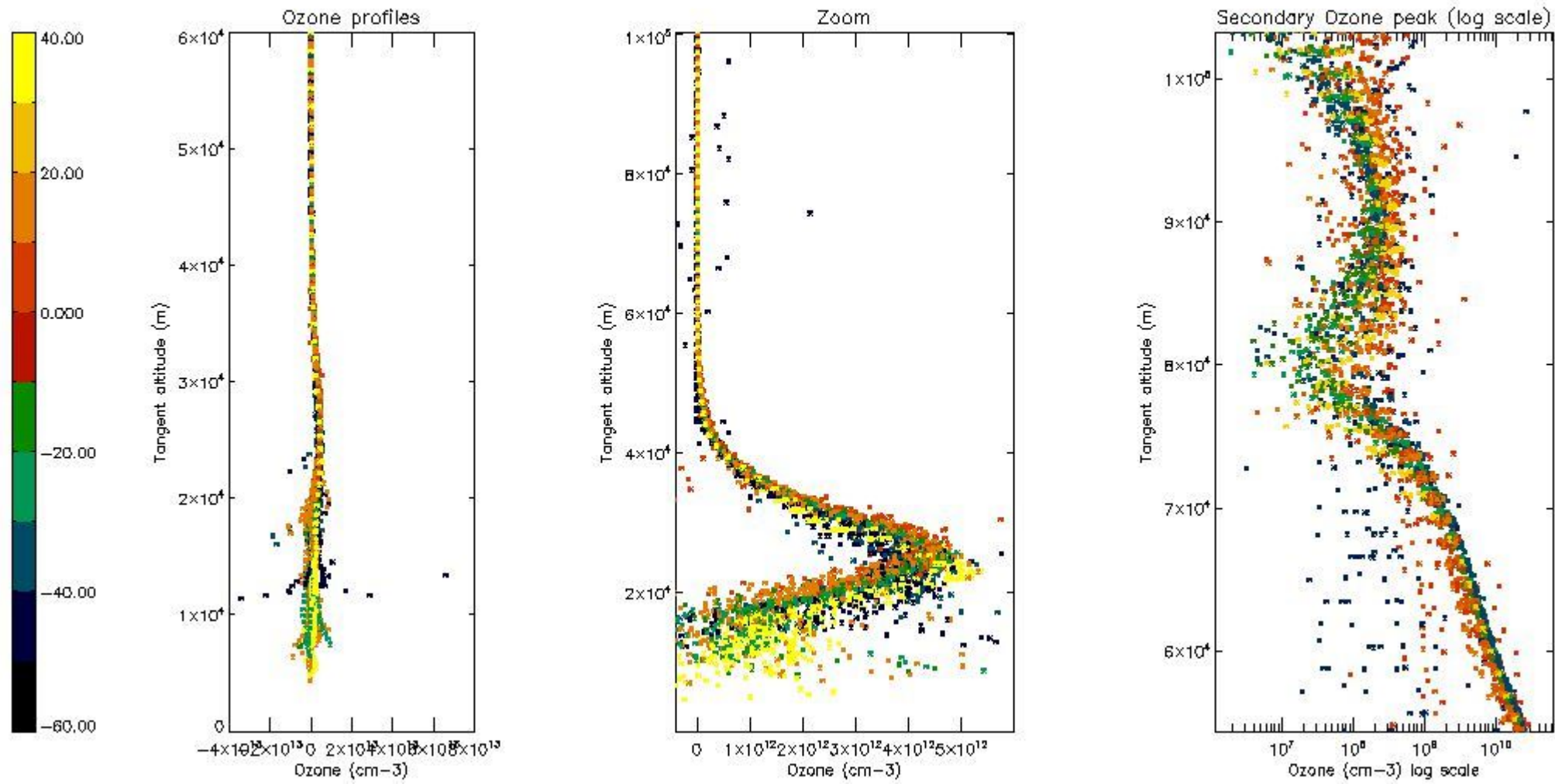
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	21

STD < 10	16
STD < 5	9

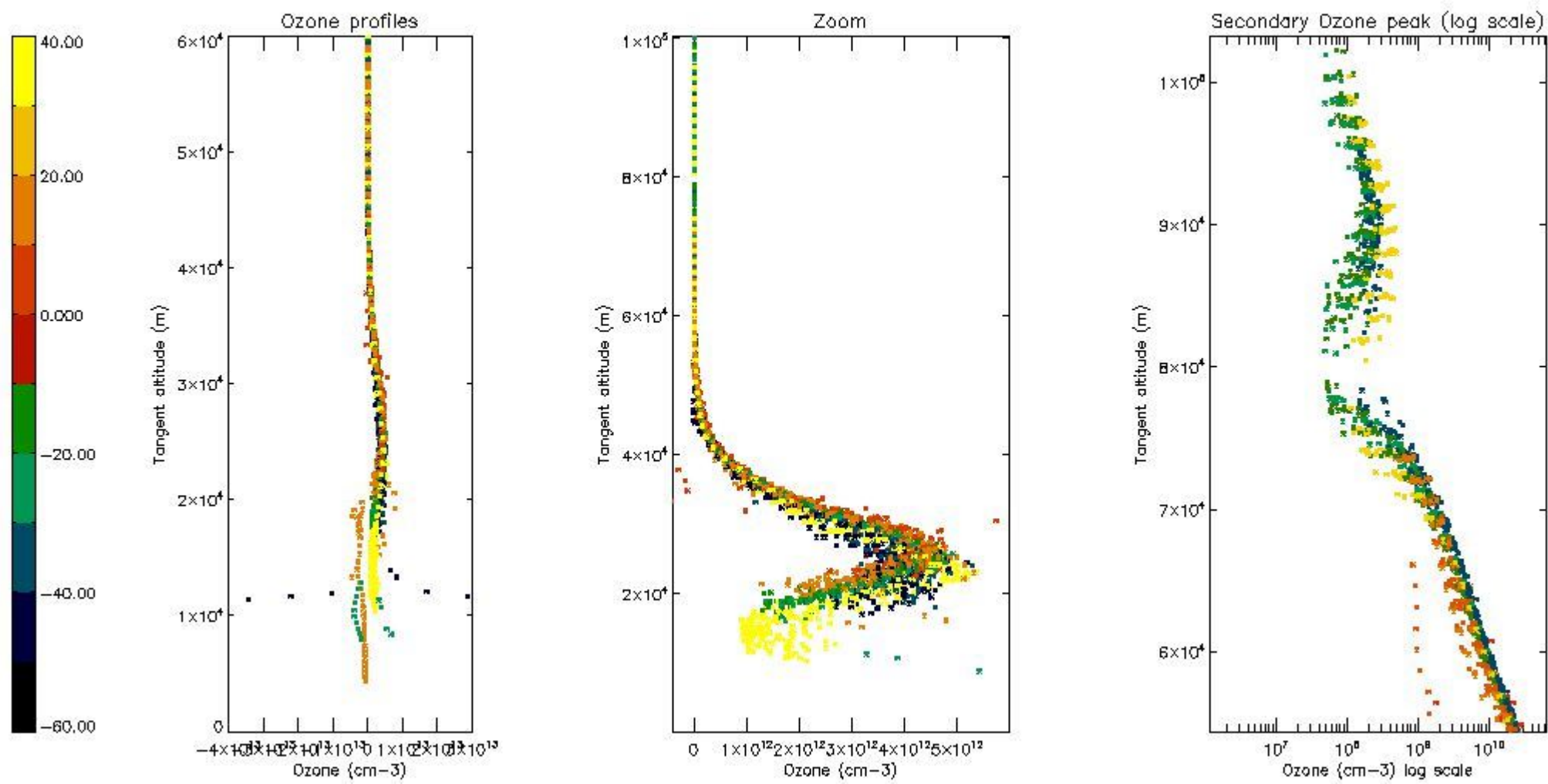
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



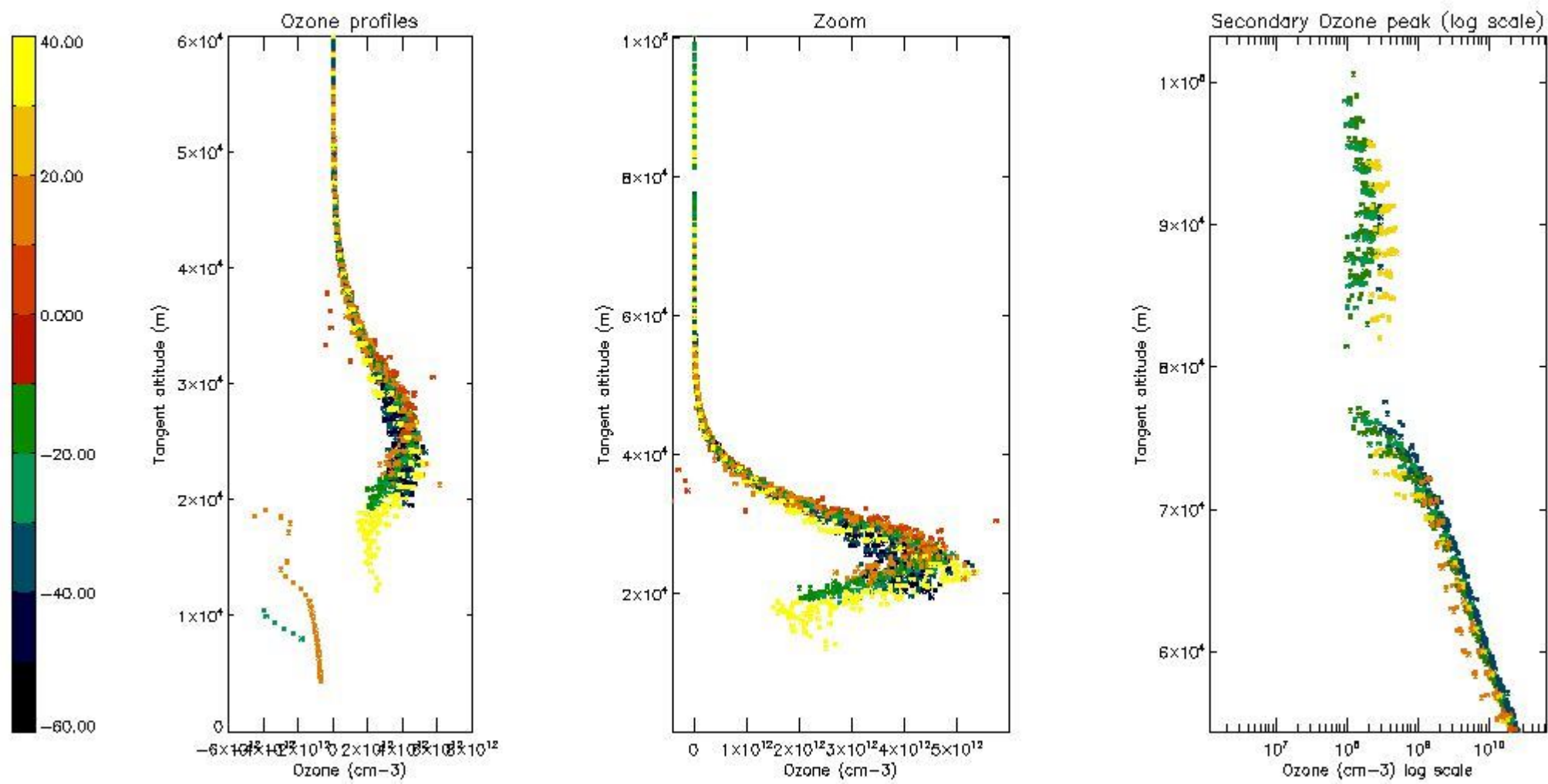
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



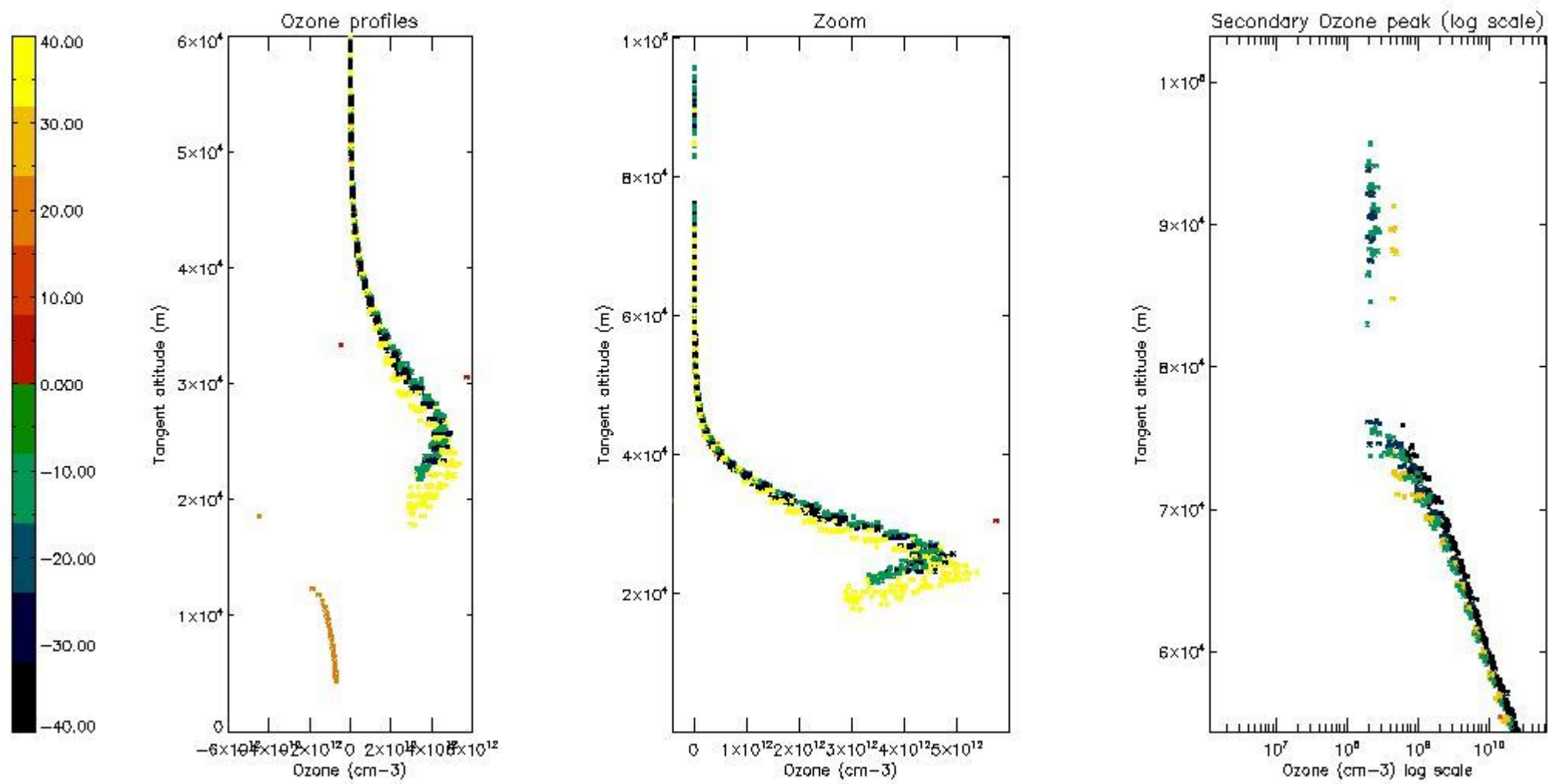
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



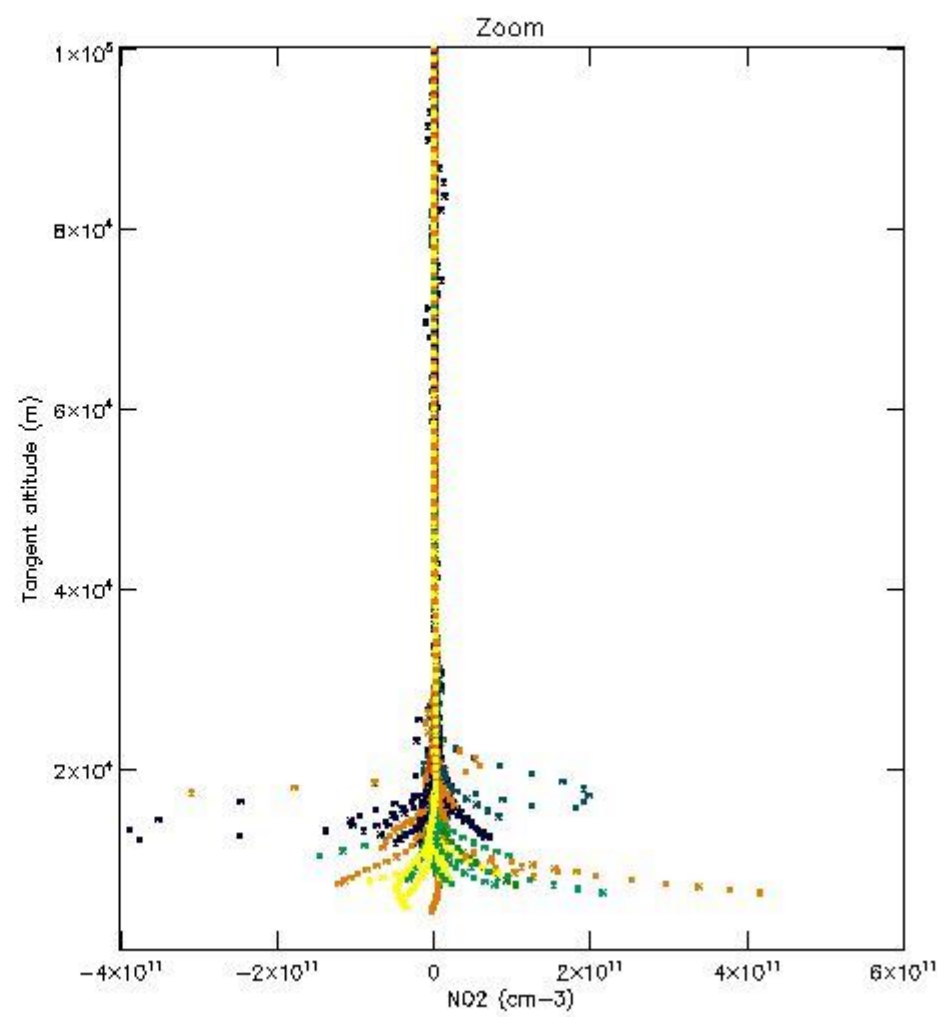
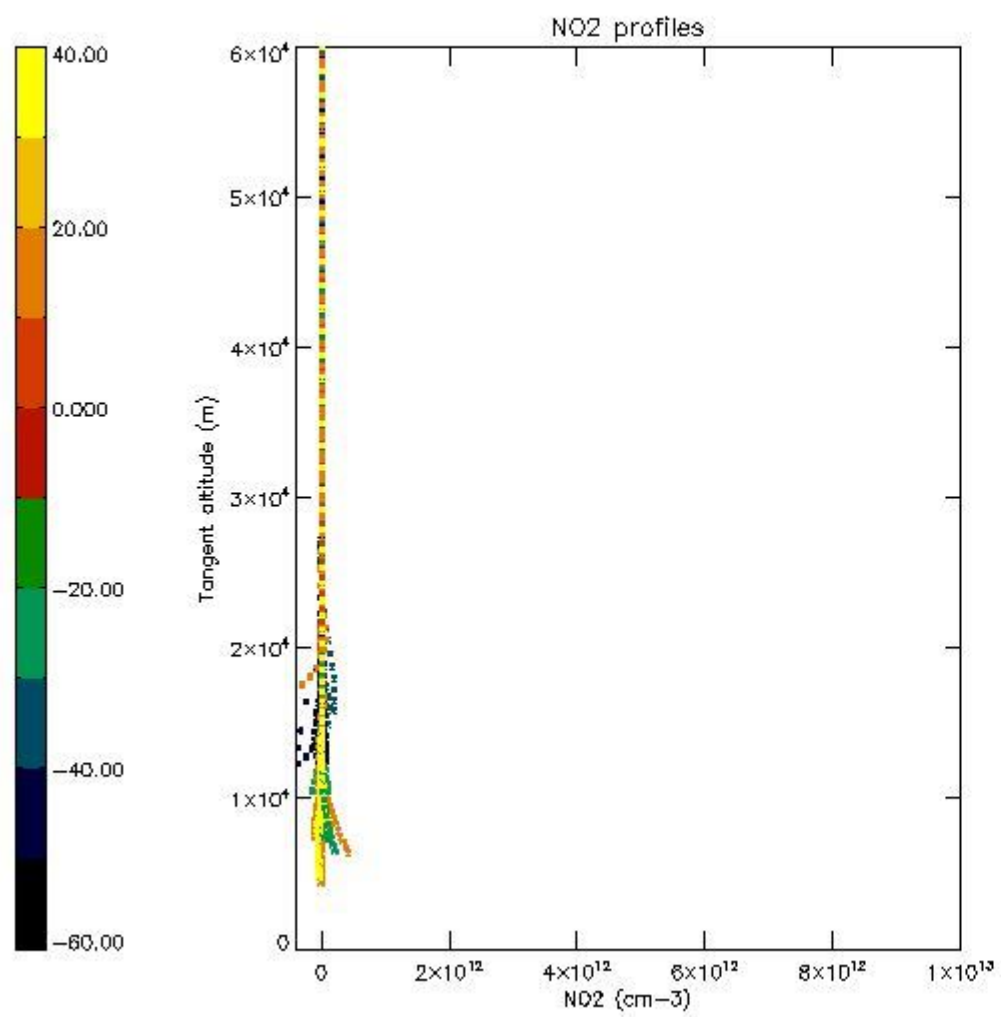
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



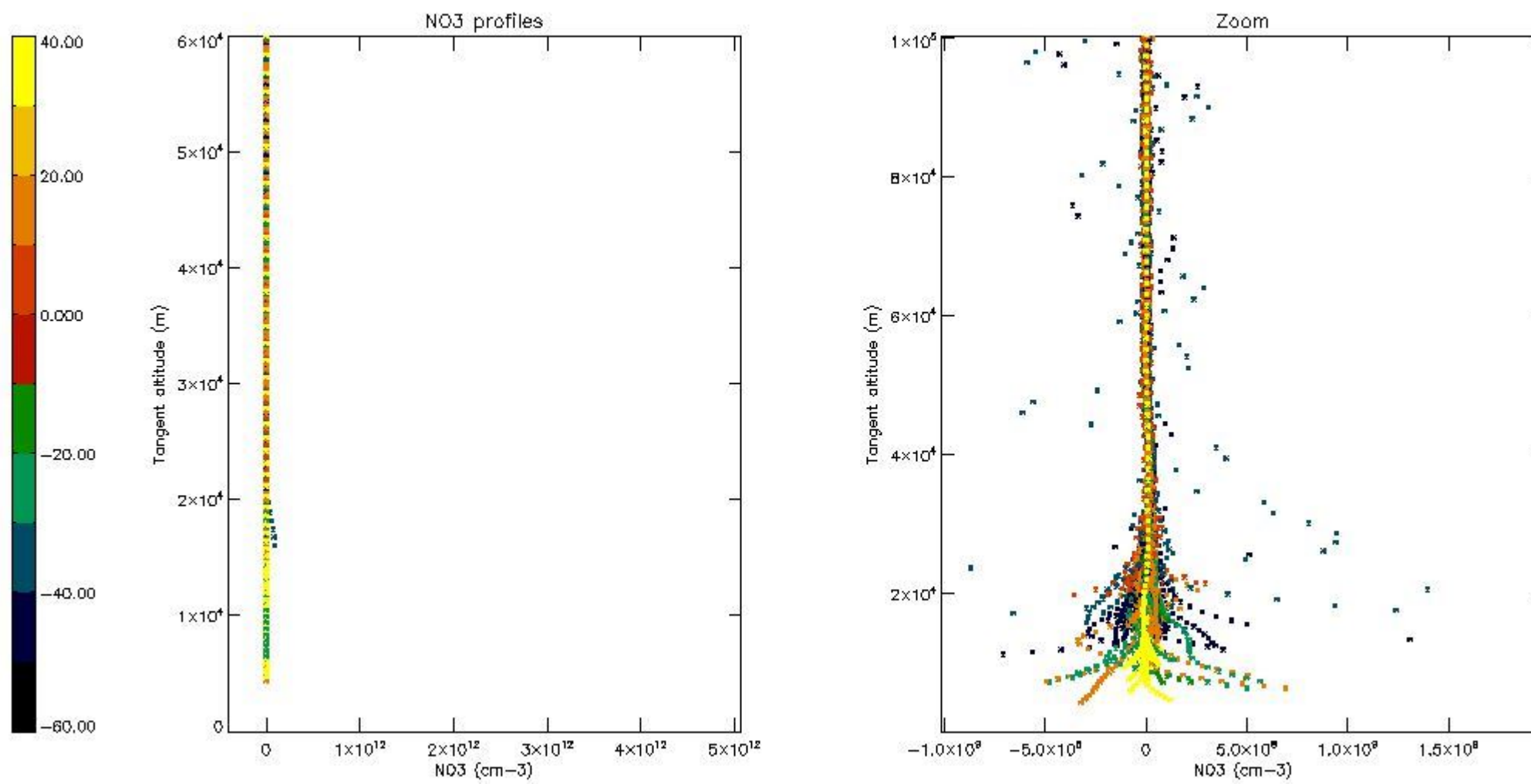
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



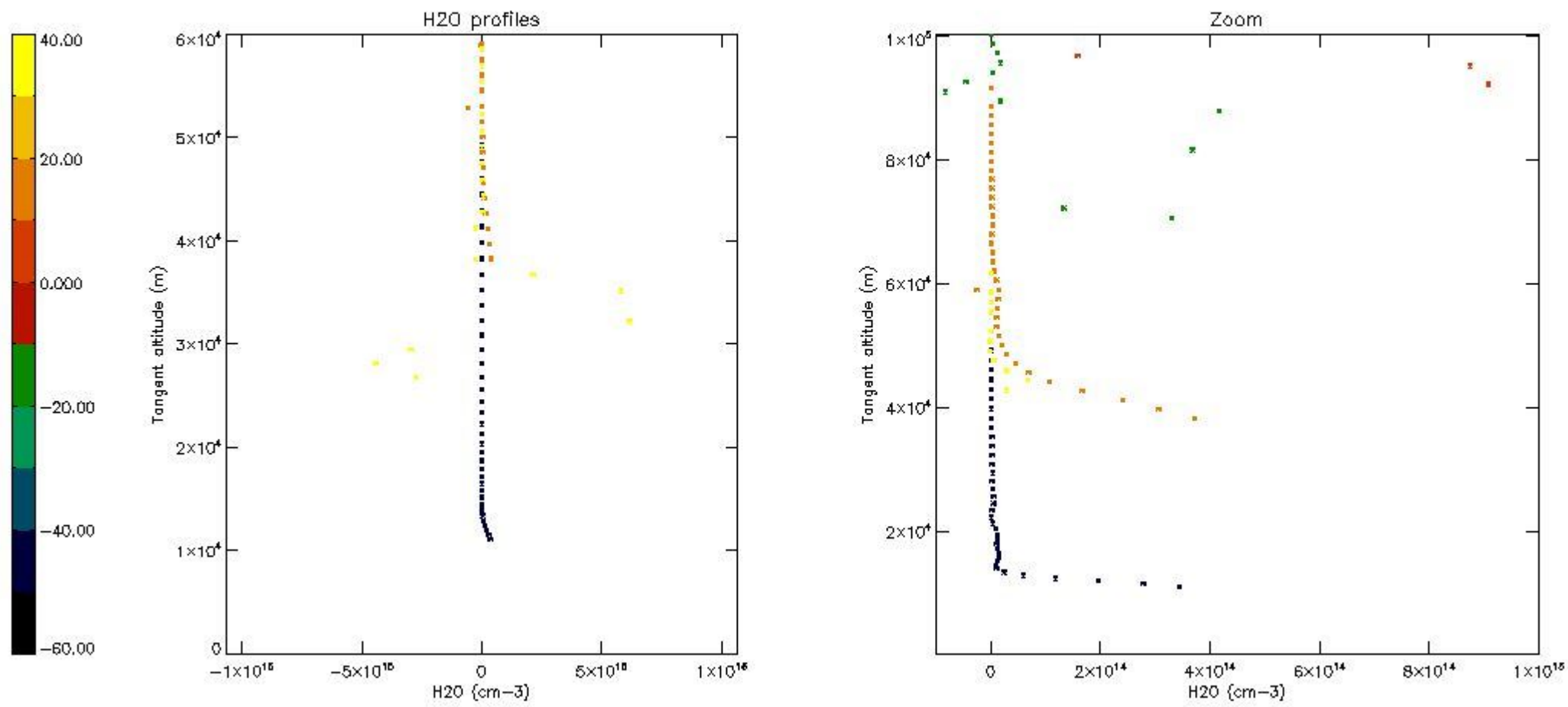
5.7 Plot NO3 profiles for all STD (dark without errors)

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	20-DEC-2006 00:05:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-DEC-2006 00:05:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-DEC-2006 00:05:39

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](#)

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

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

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

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

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

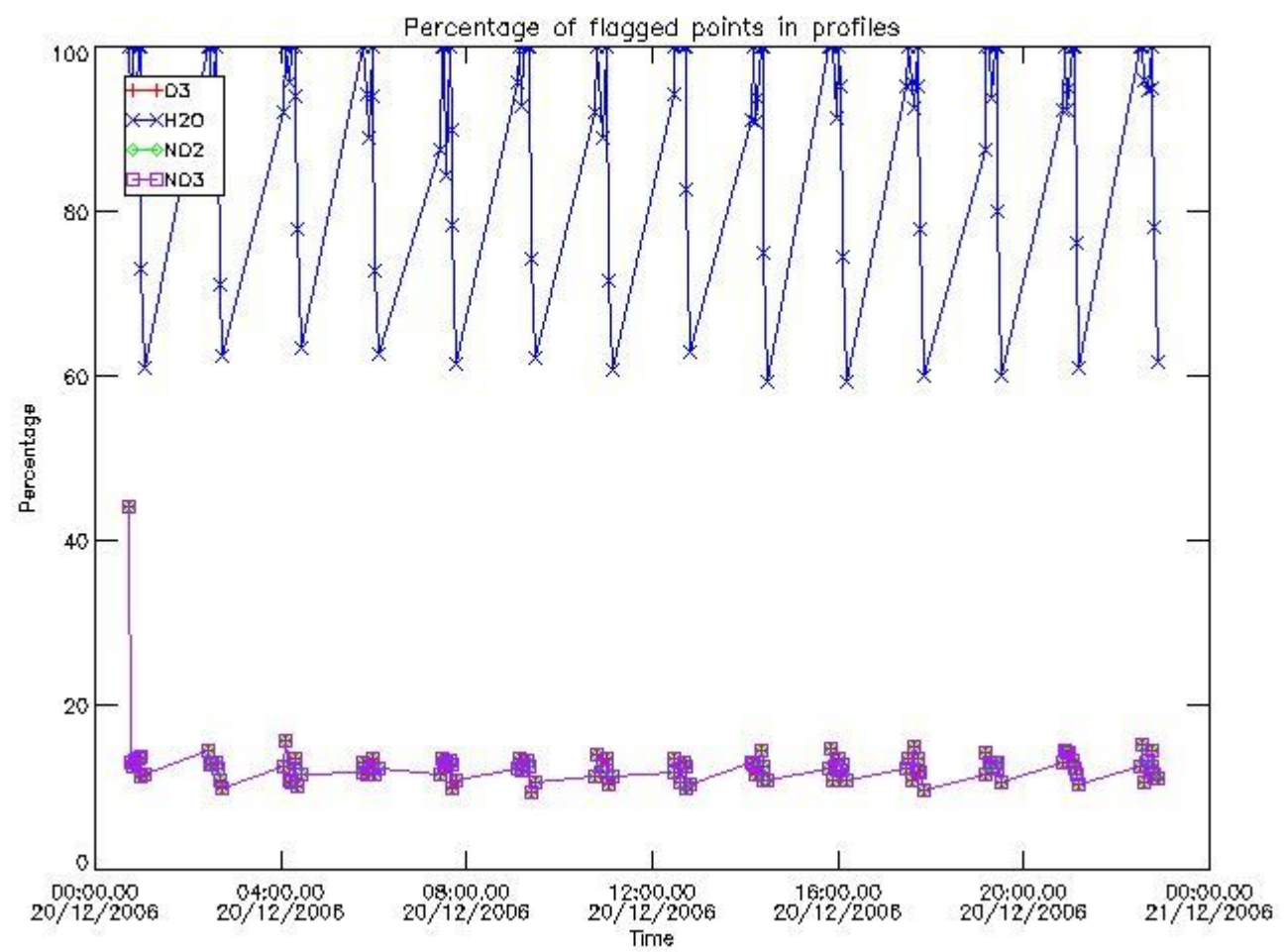
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

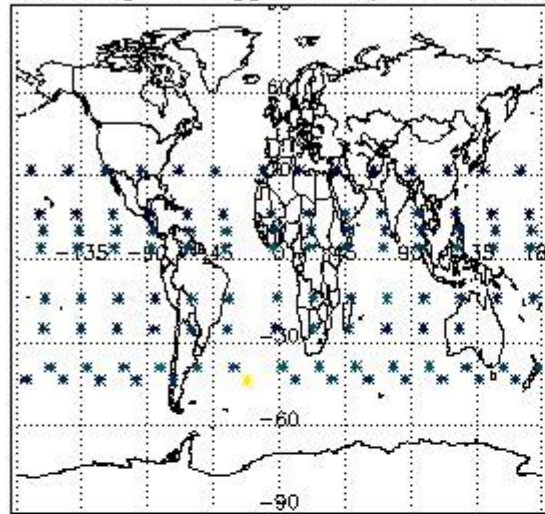
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

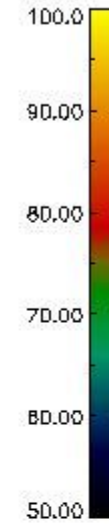
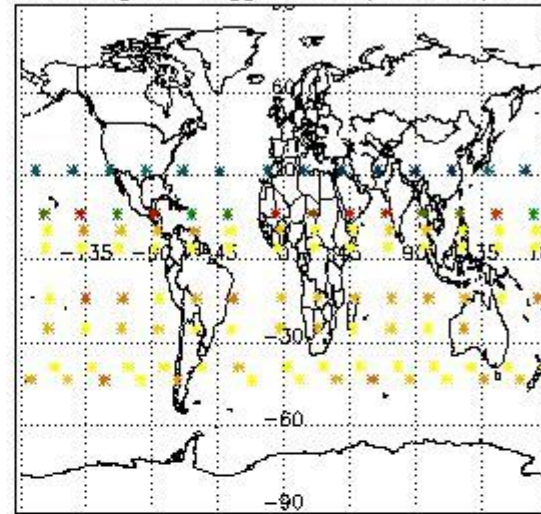


3.2 Plot quality information per product (world map)

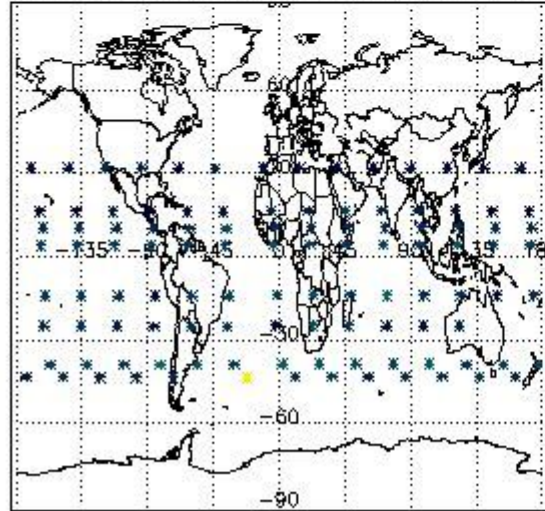
Percentage of flagged data per O3 profile



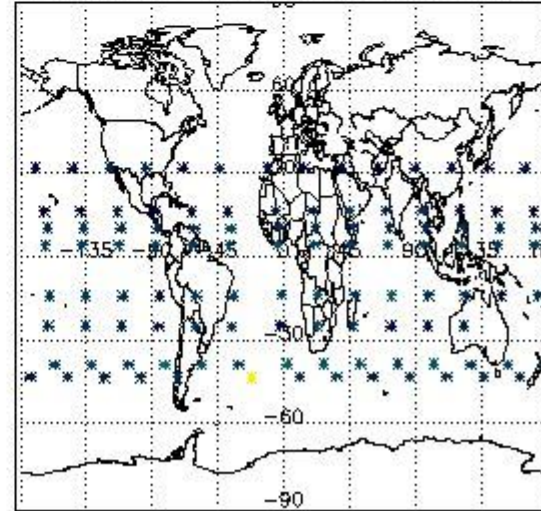
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

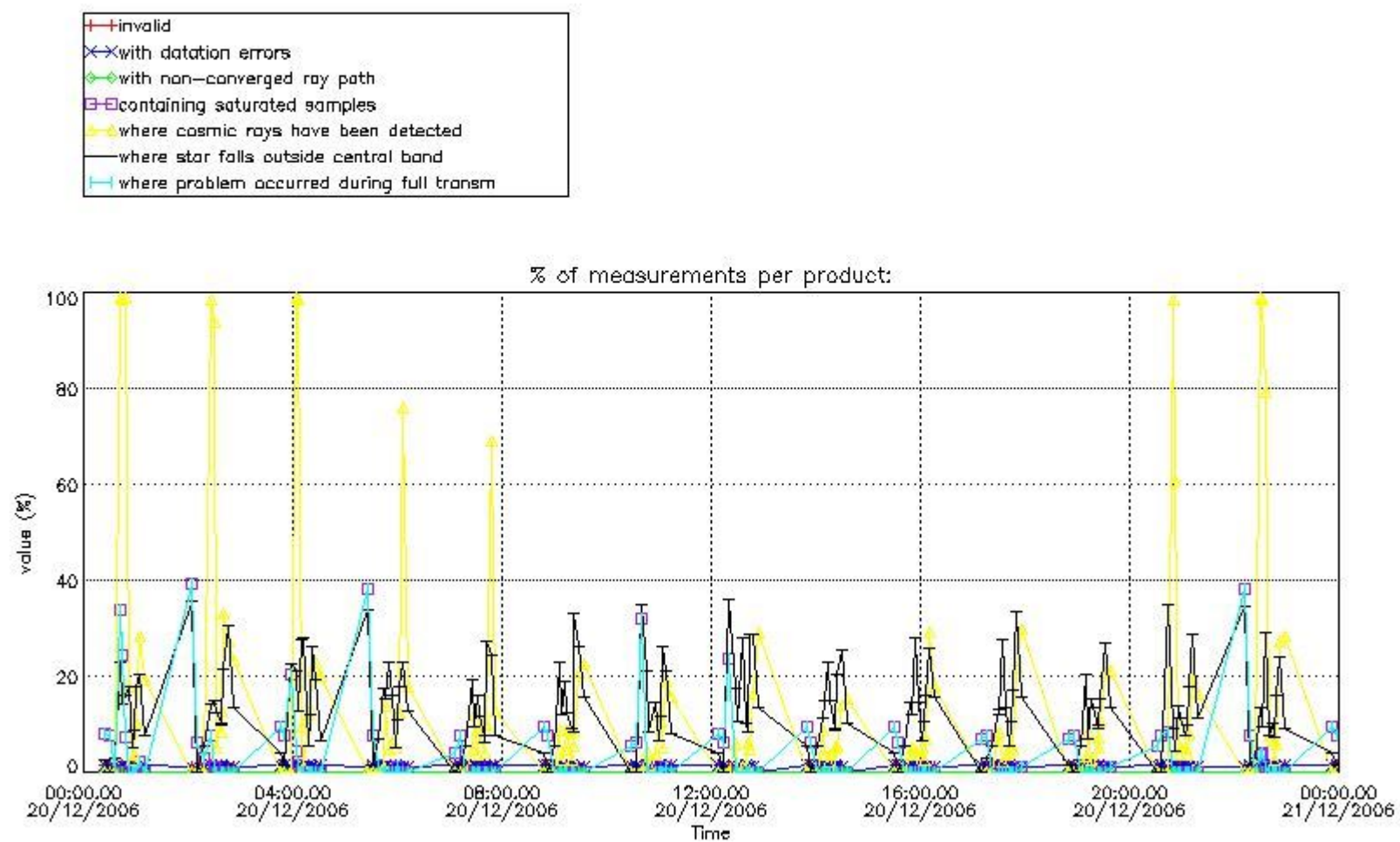


4. Level 1 quality information per product

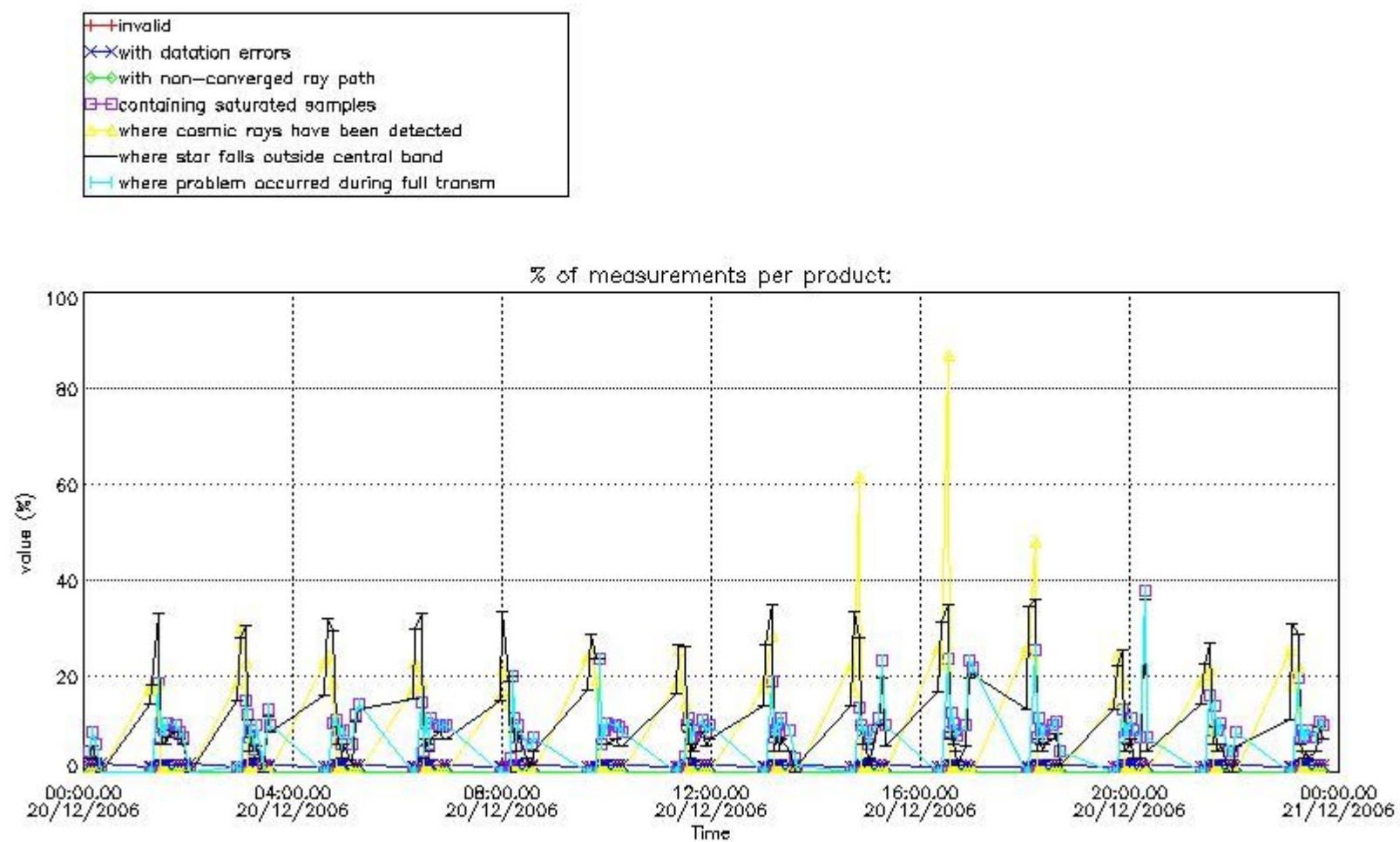
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

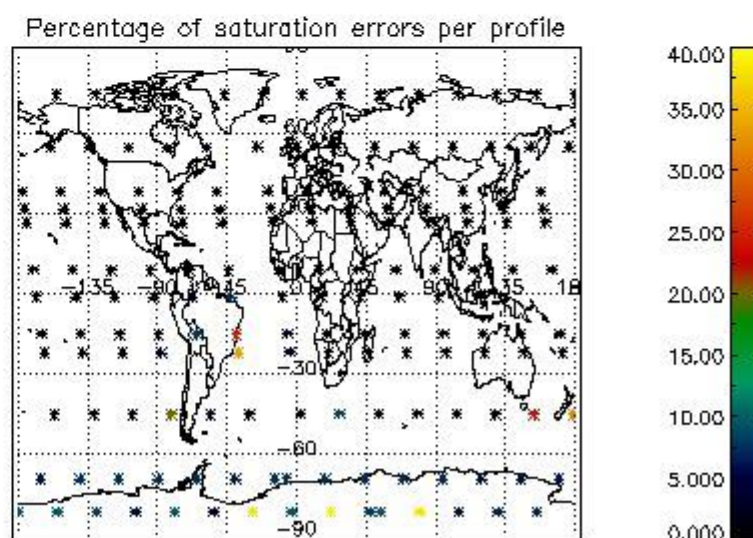
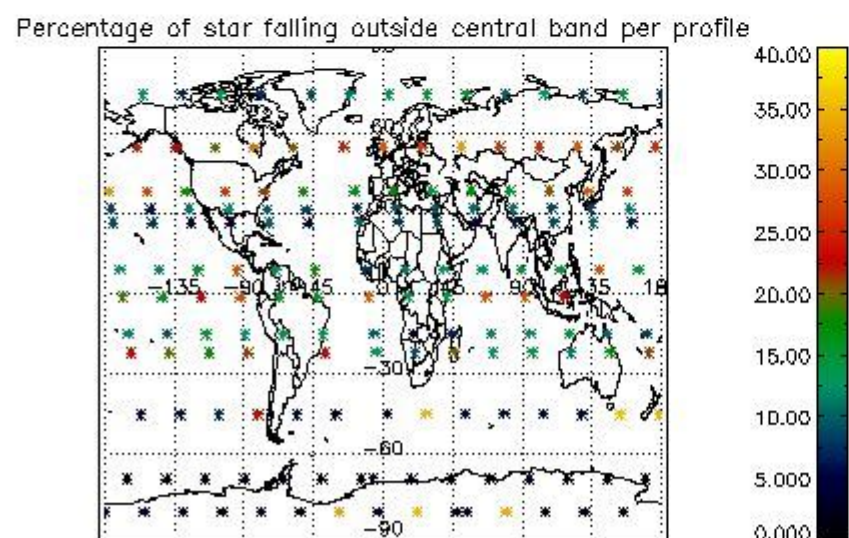
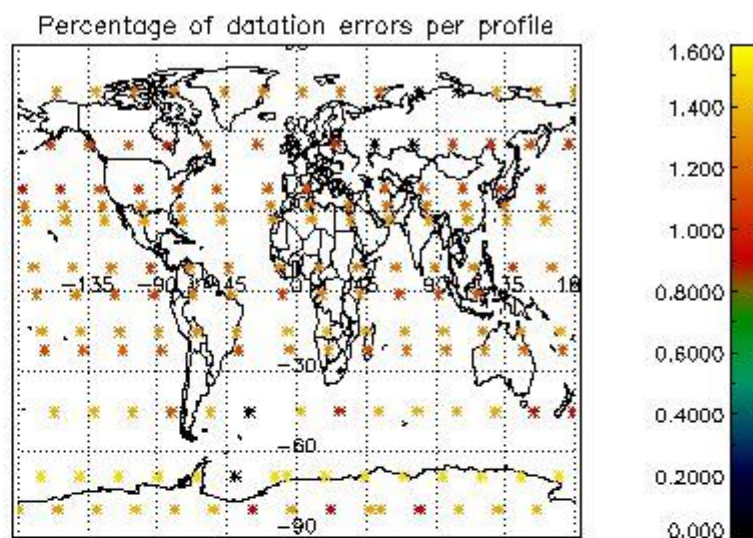
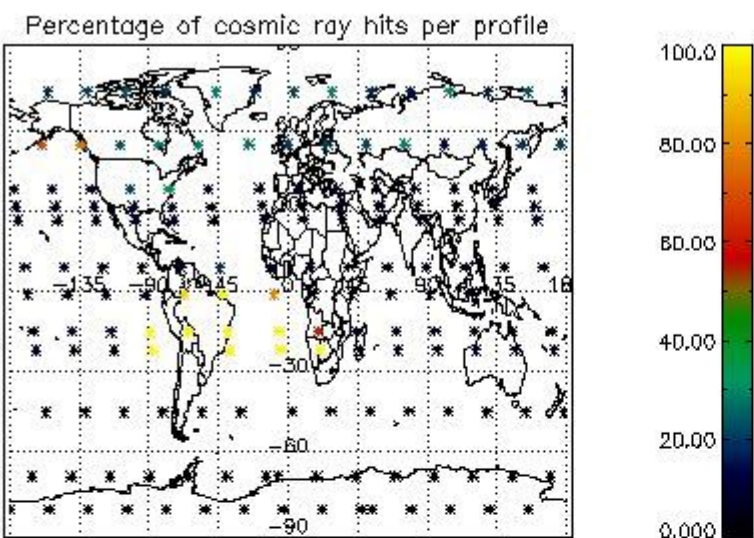


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

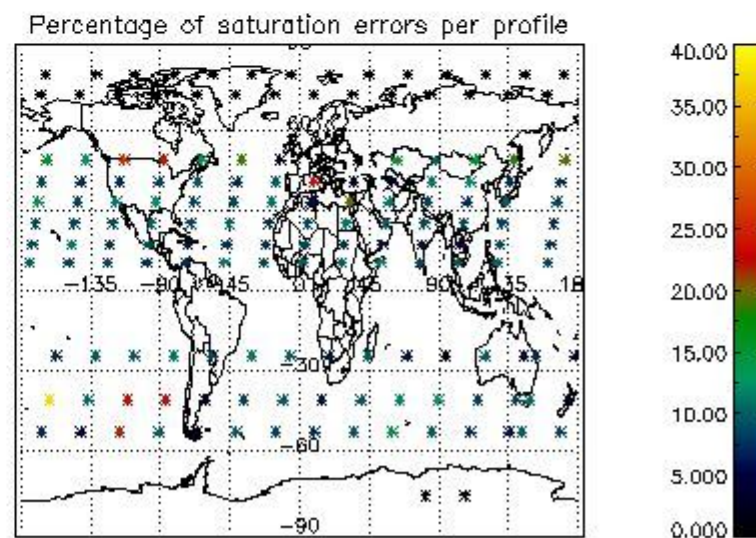
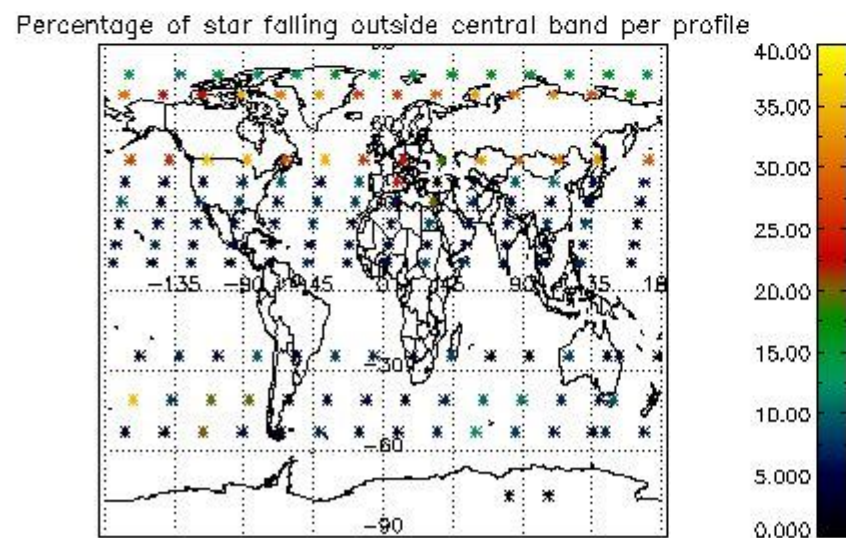
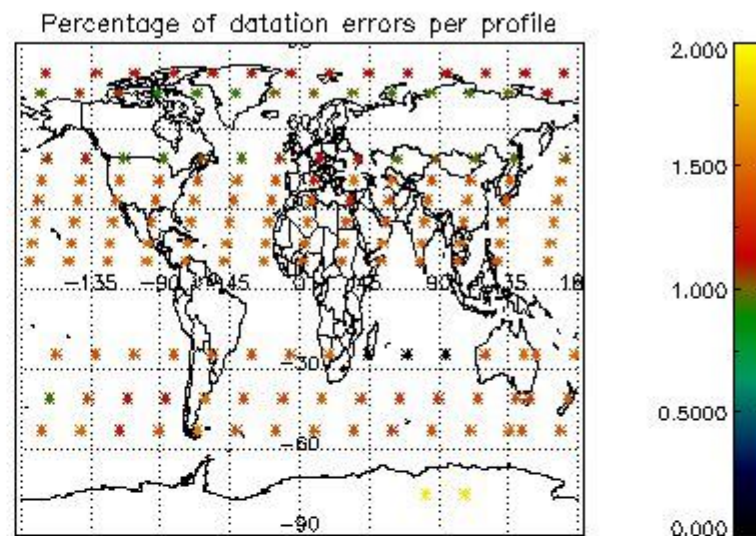
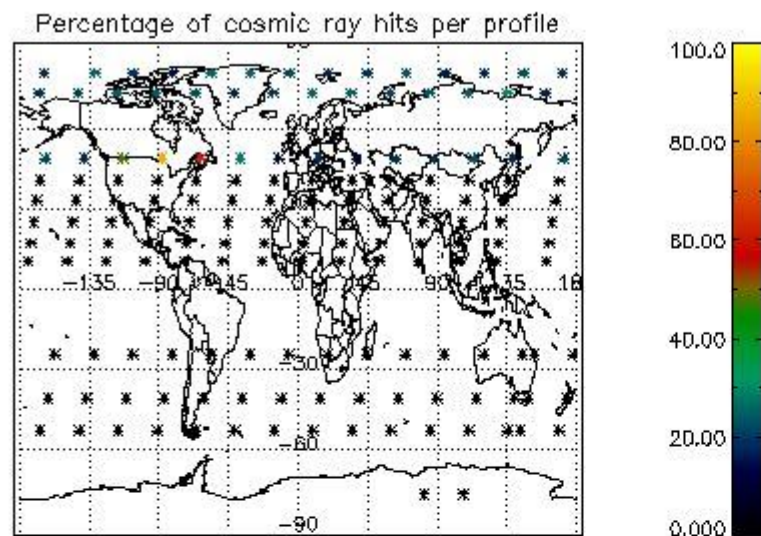


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

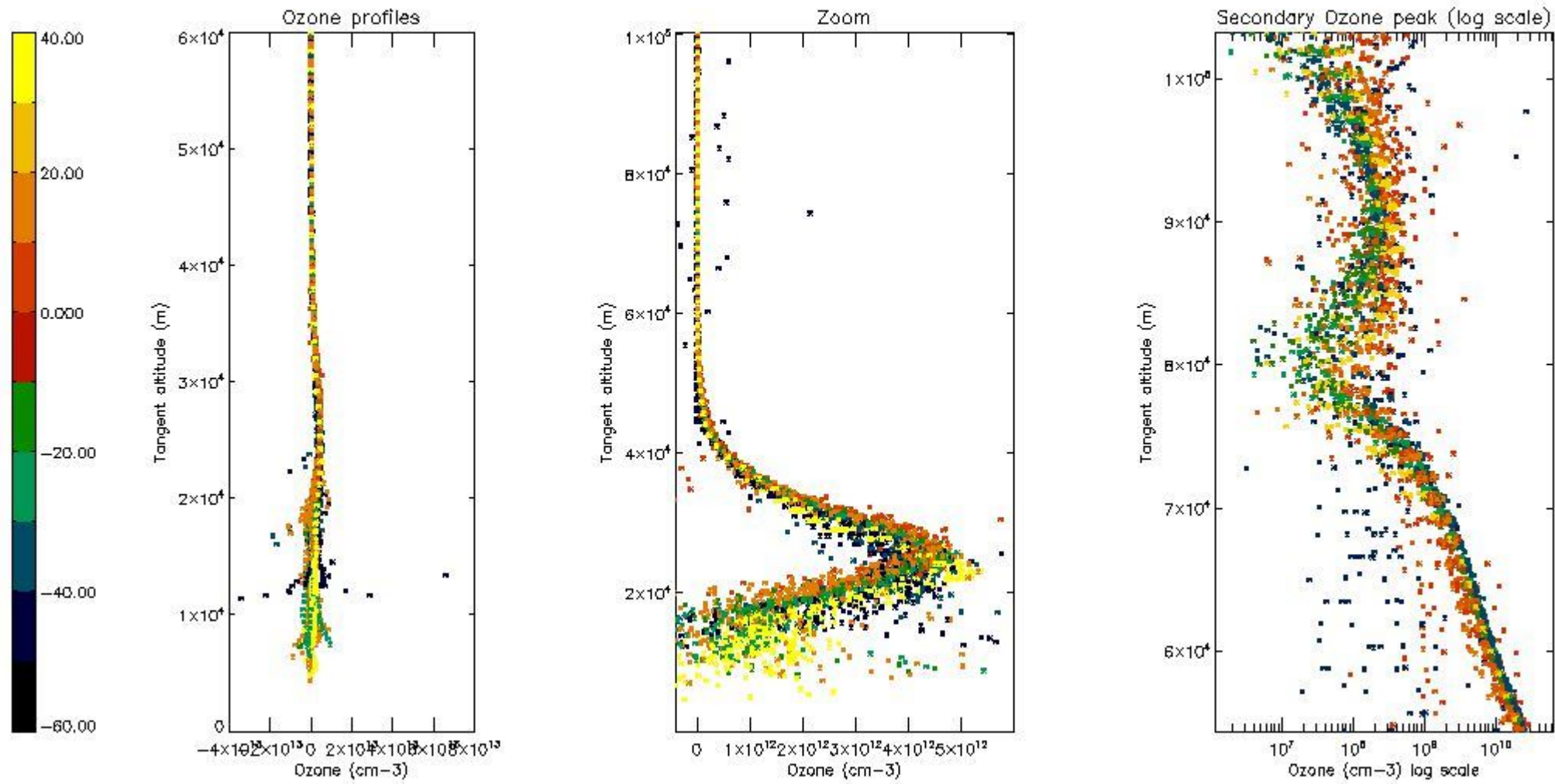
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	21

STD < 10	16
STD < 5	9

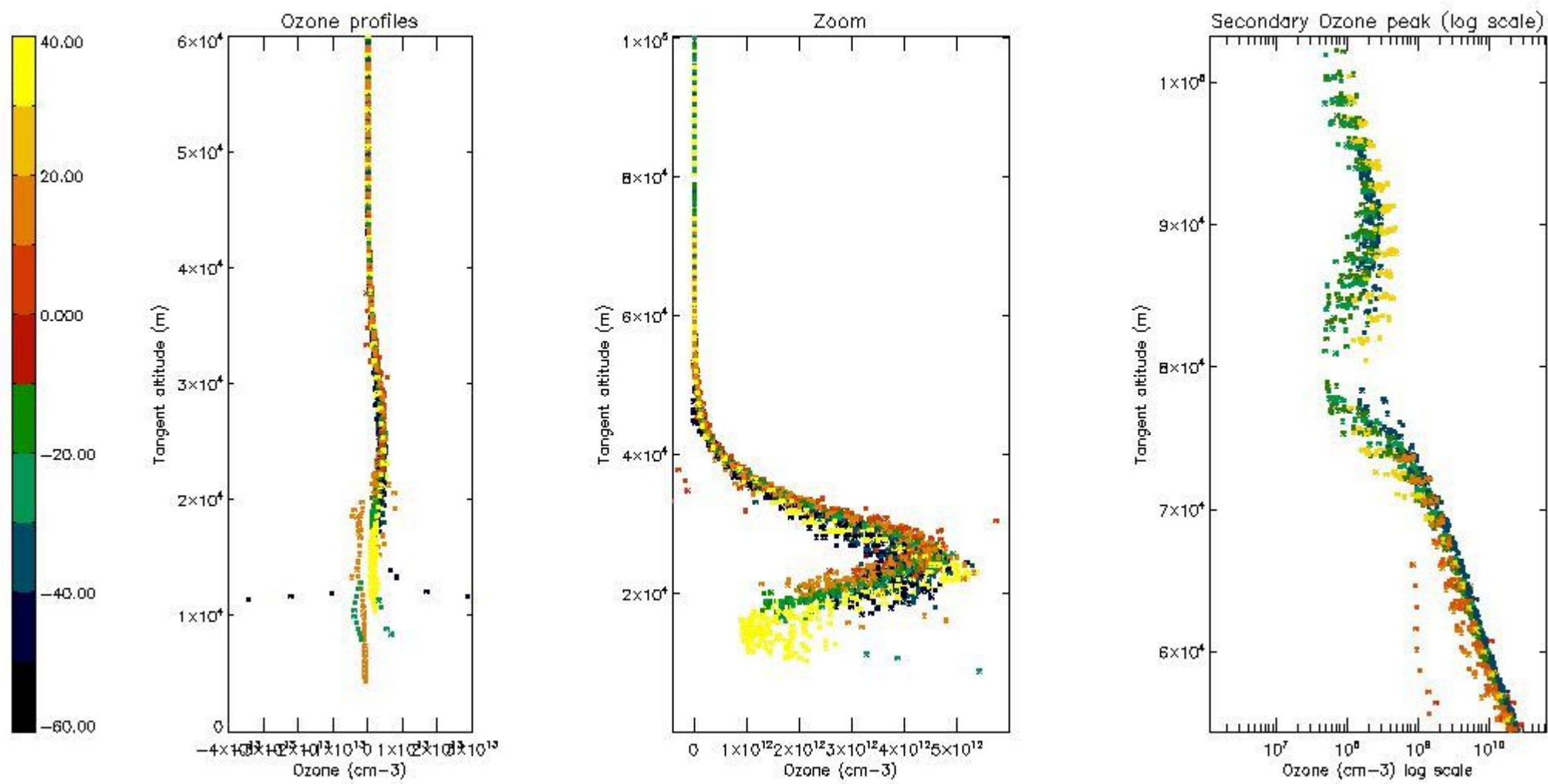
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



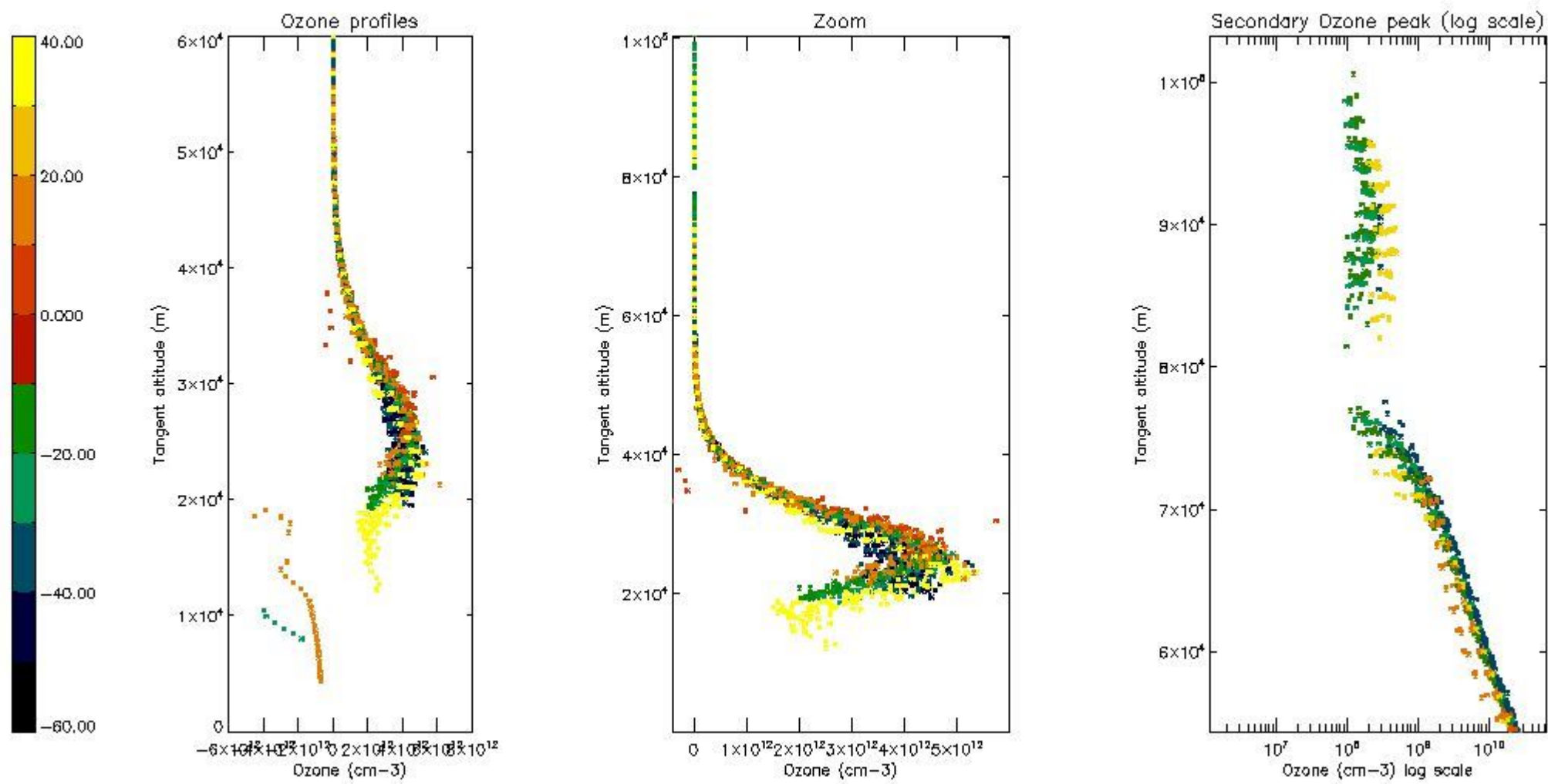
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



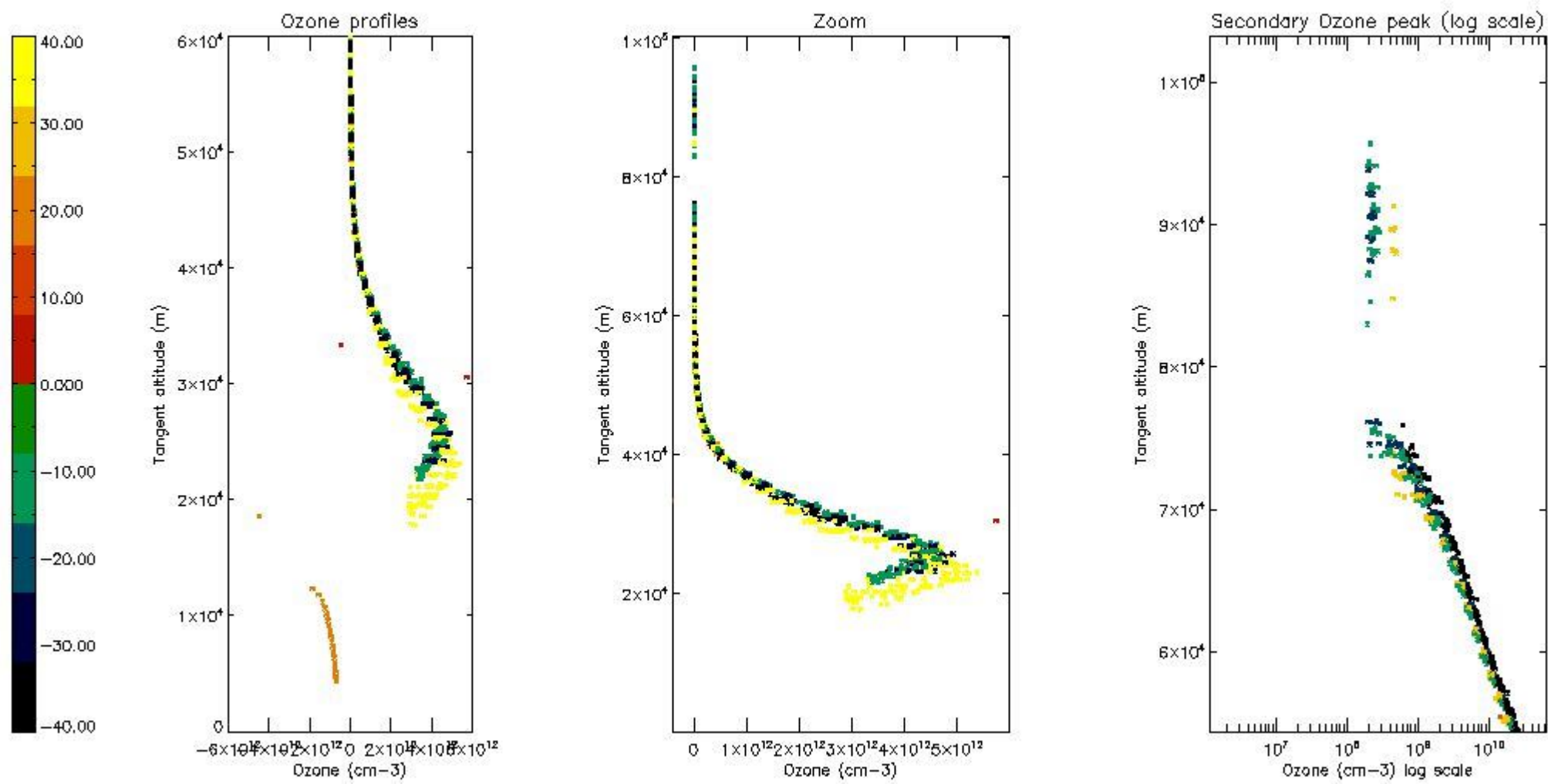
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



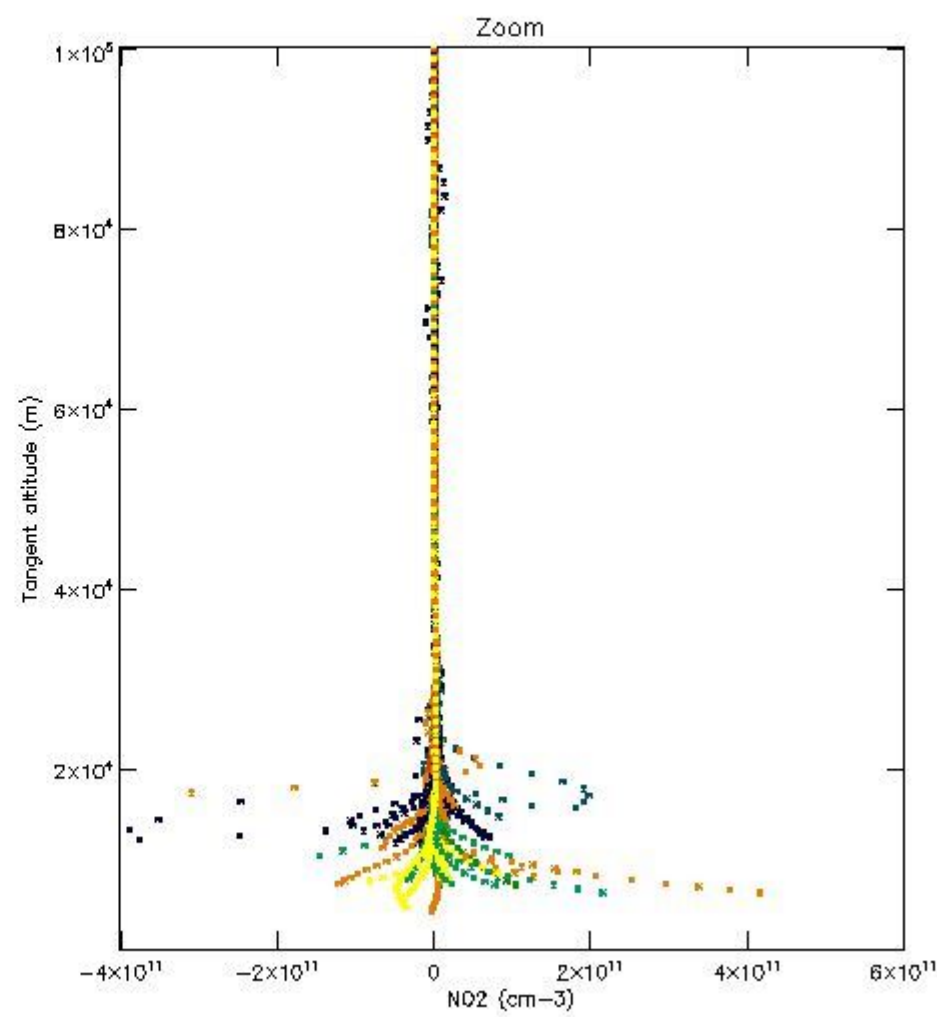
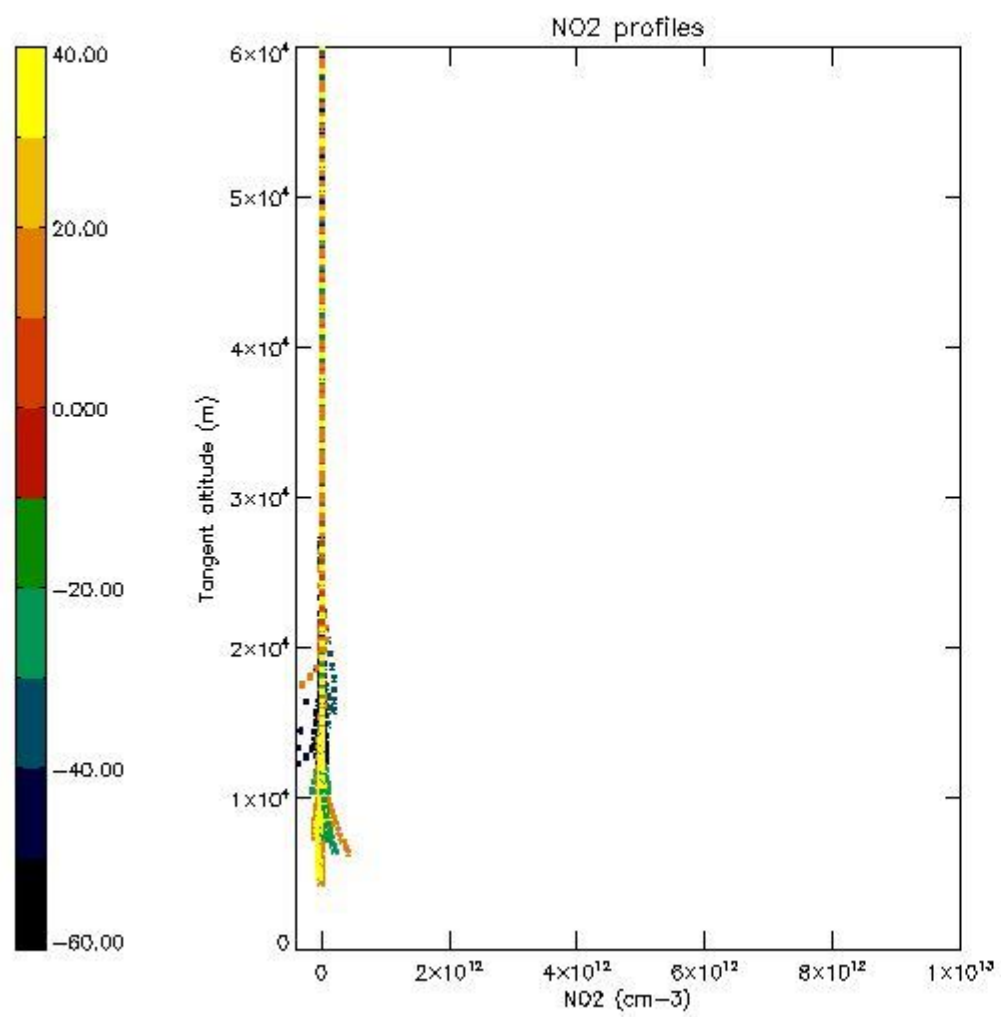
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



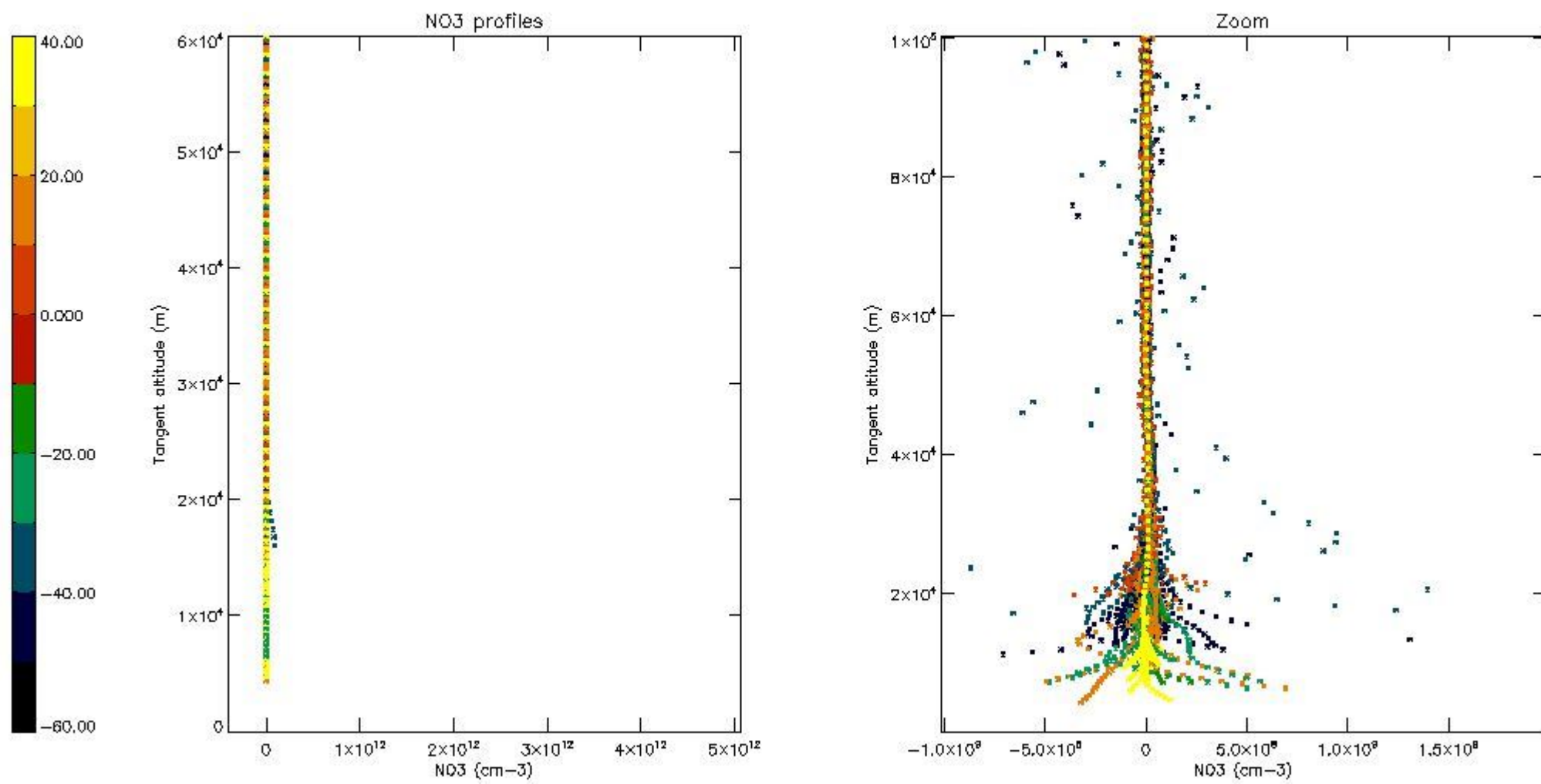
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



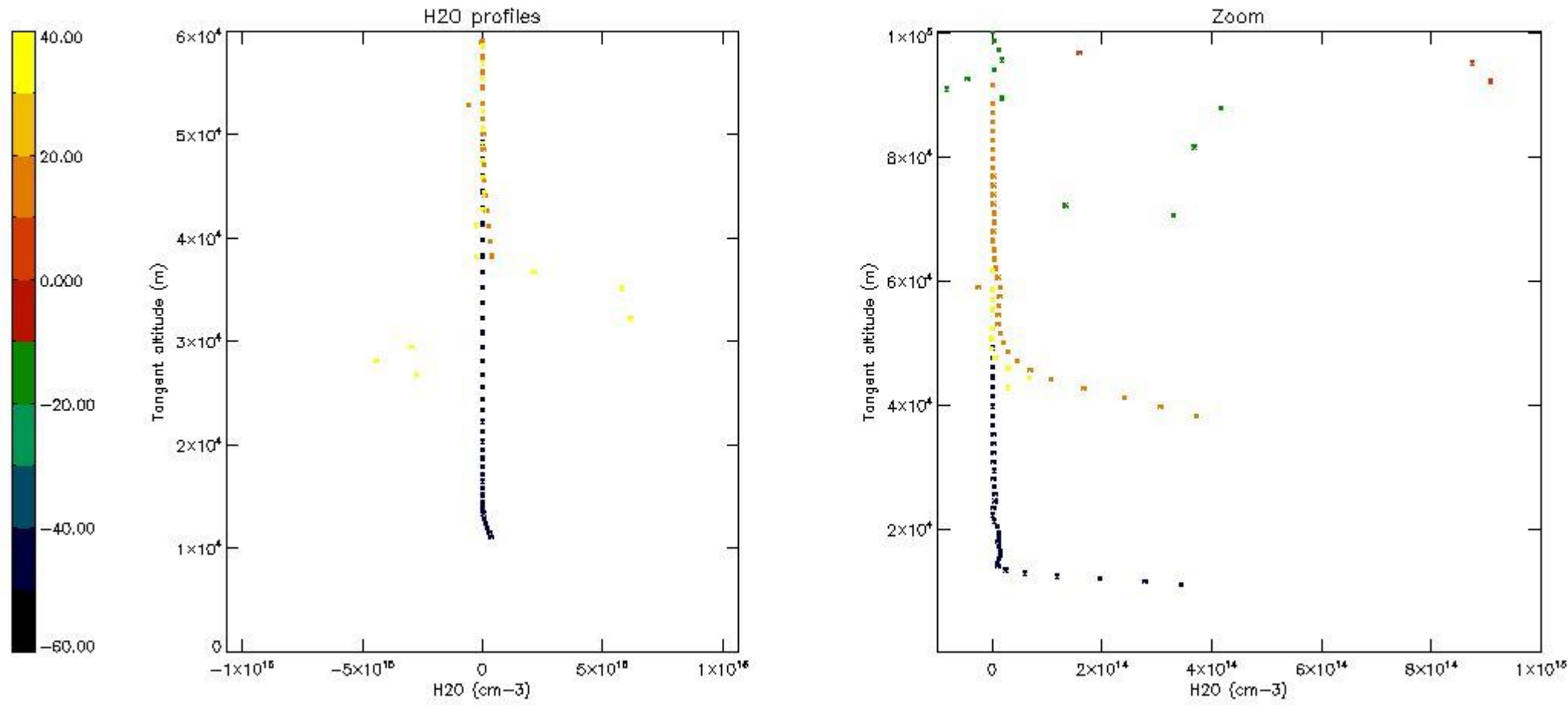
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

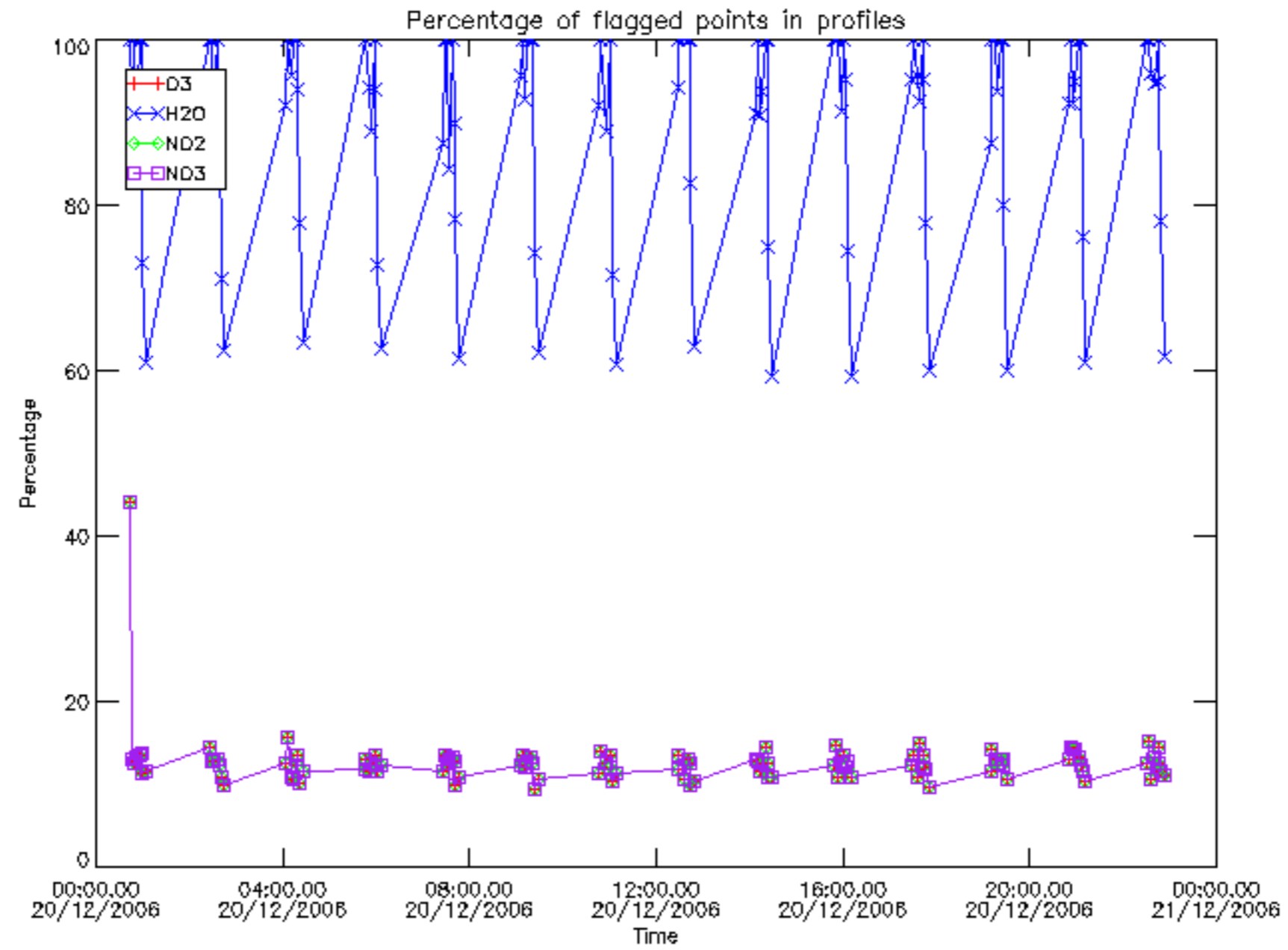
The colorbar represents the latitude.



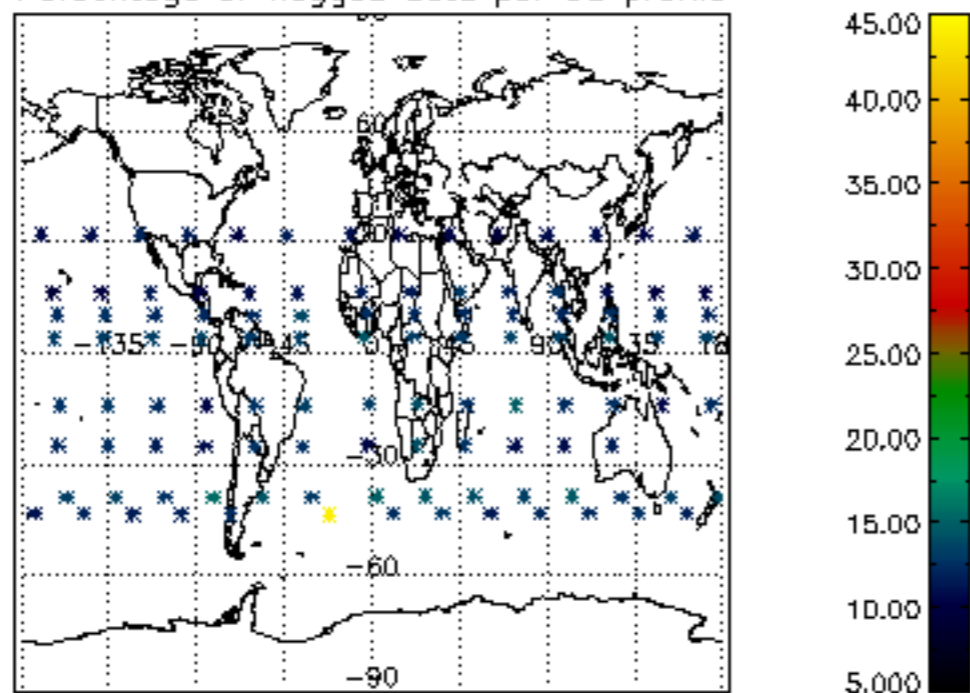
6. Auxiliary Data Files used for the production reported in section 2

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.

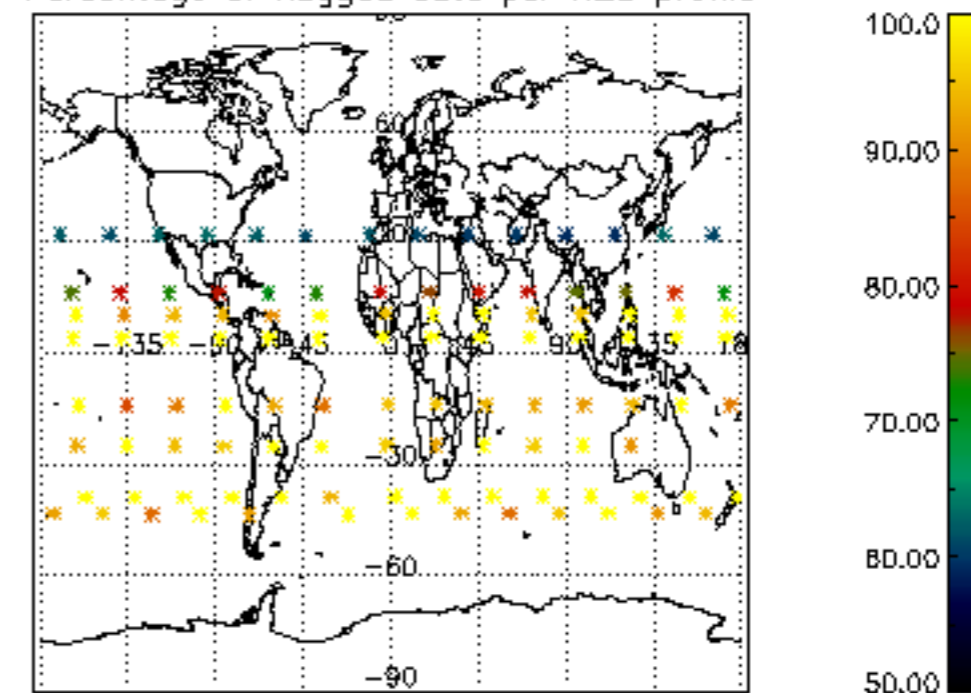
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-DEC-2006 00:05:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-DEC-2006 00:05:39
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-DEC-2006 00:05:39



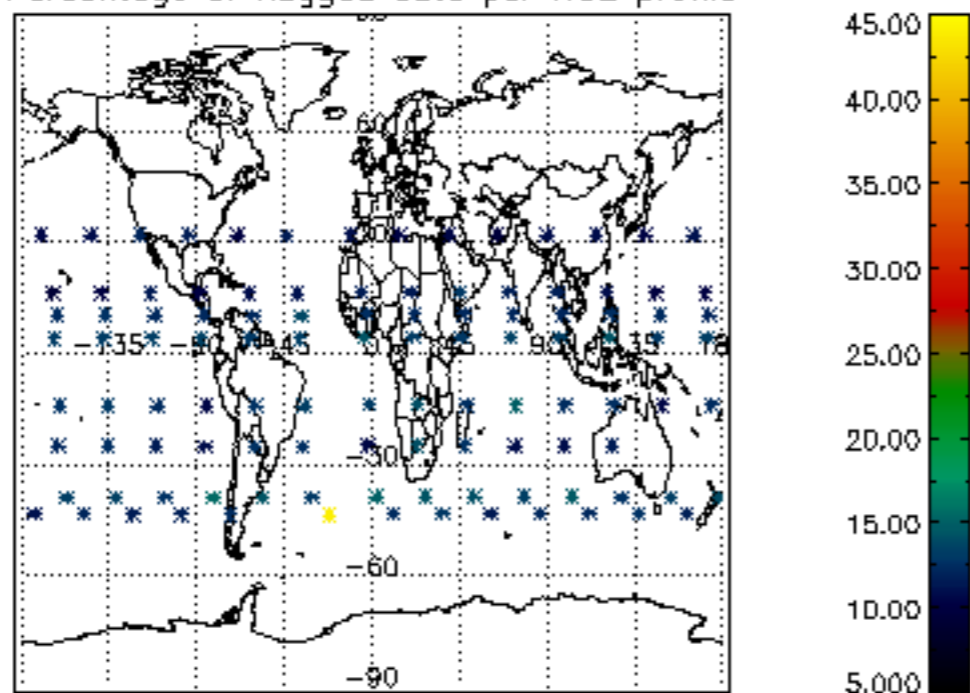
Percentage of flagged data per D3 profile



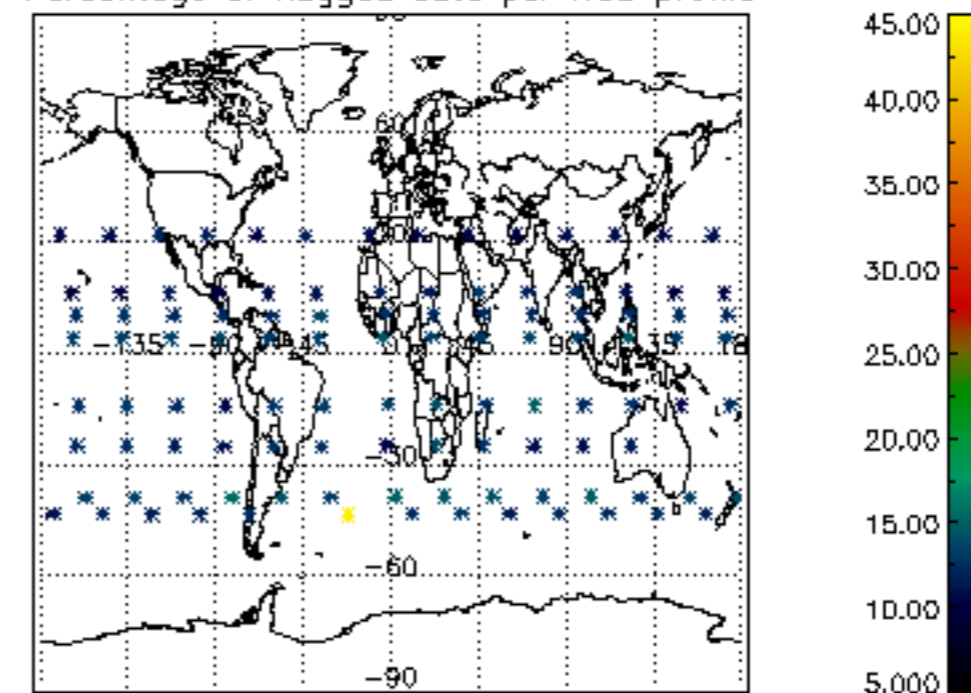
Percentage of flagged data per H2O profile

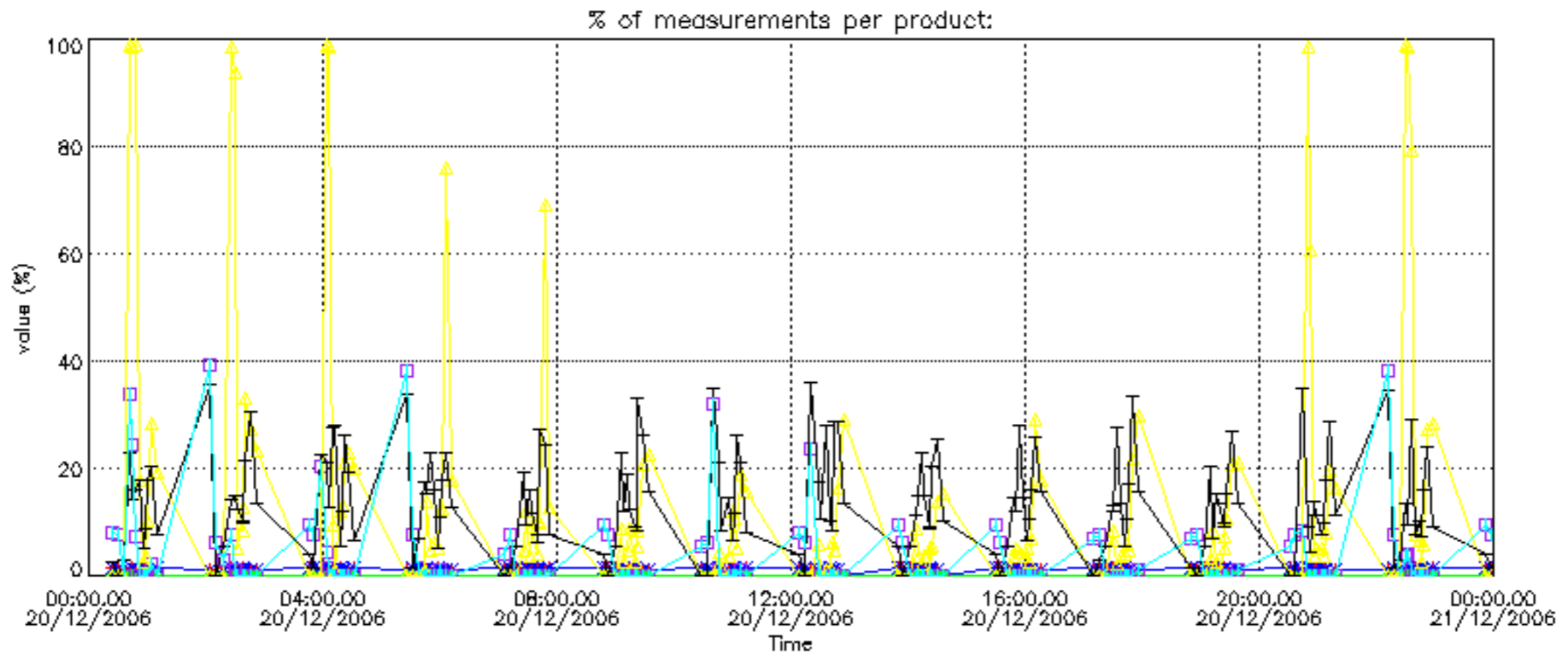


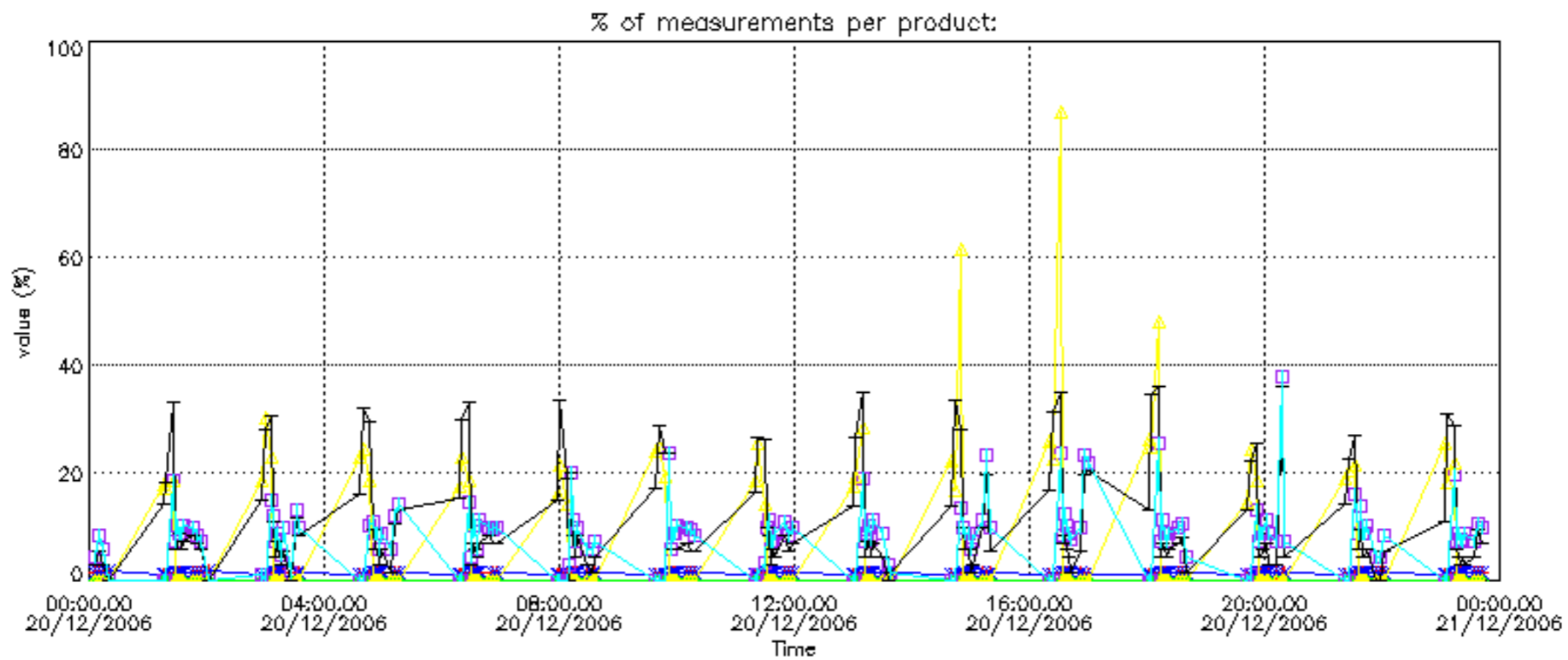
Percentage of flagged data per NO2 profile



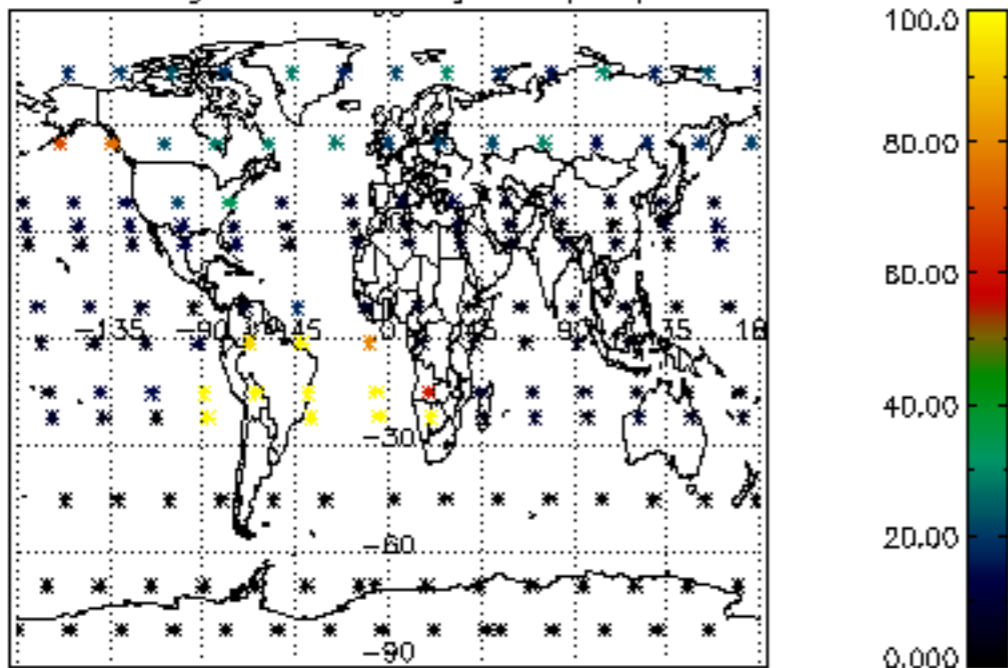
Percentage of flagged data per NO3 profile



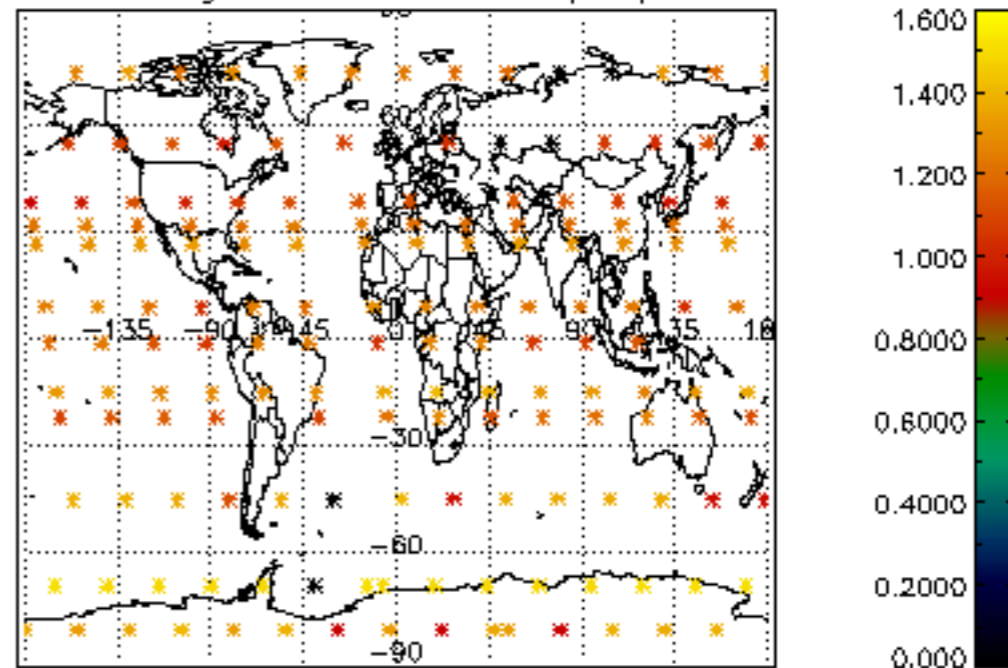




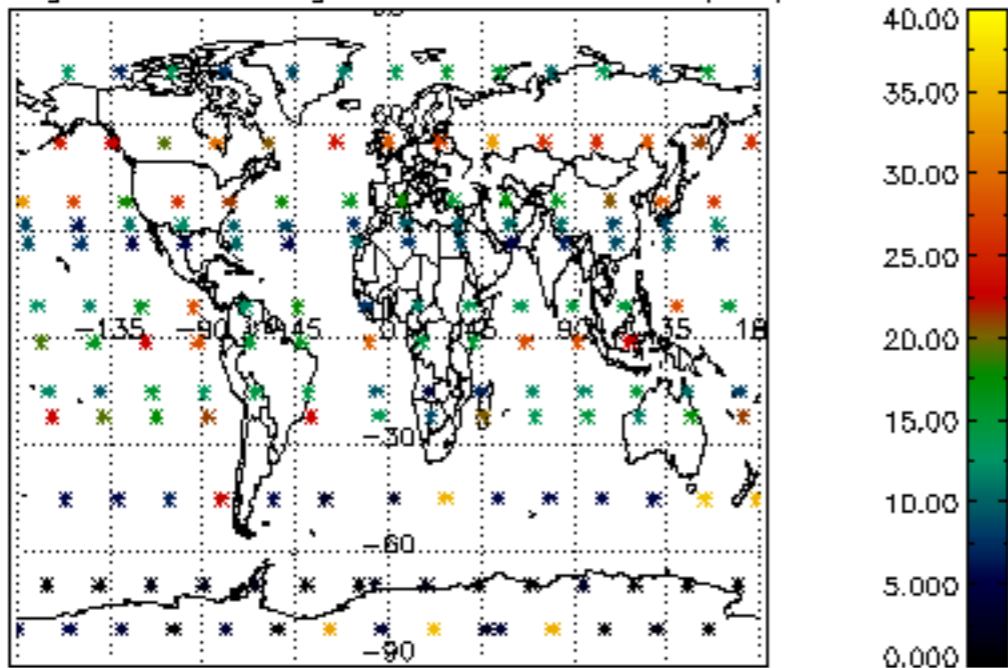
Percentage of cosmic ray hits per profile



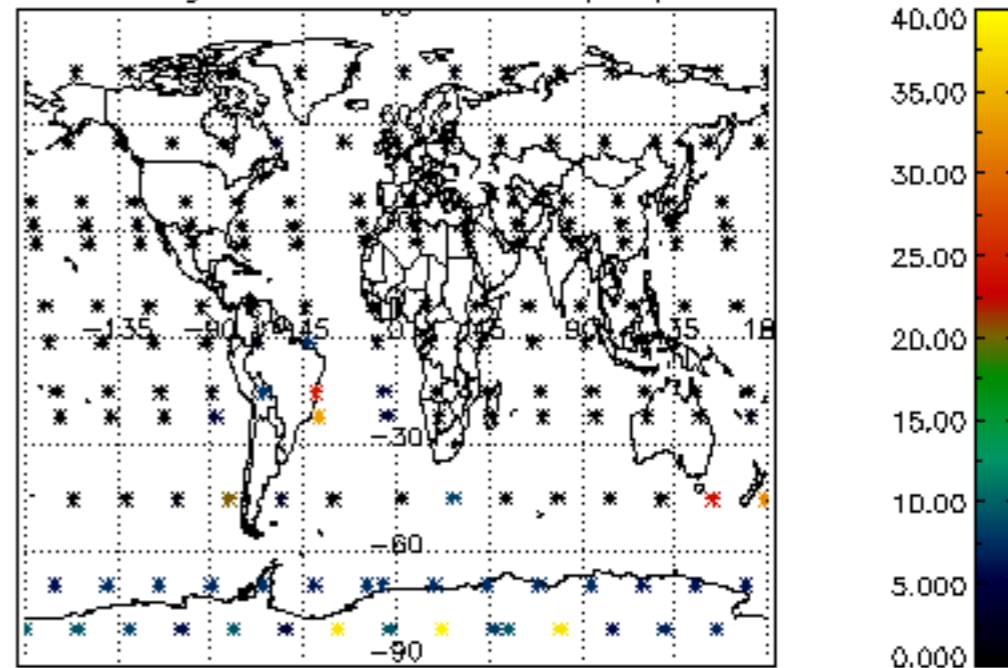
Percentage of datation errors per profile



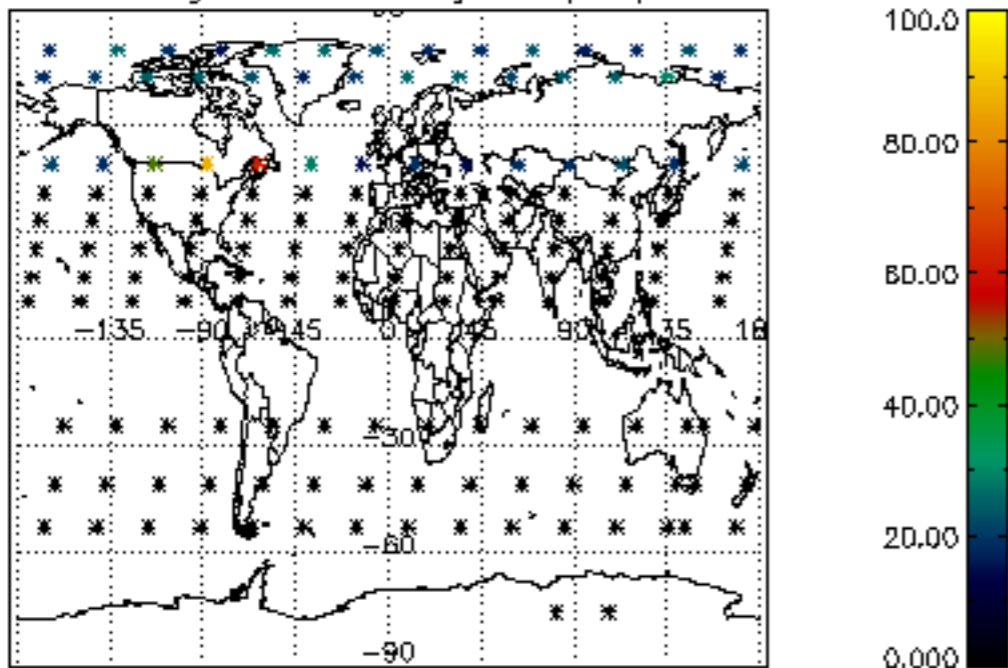
Percentage of star falling outside central band per profile



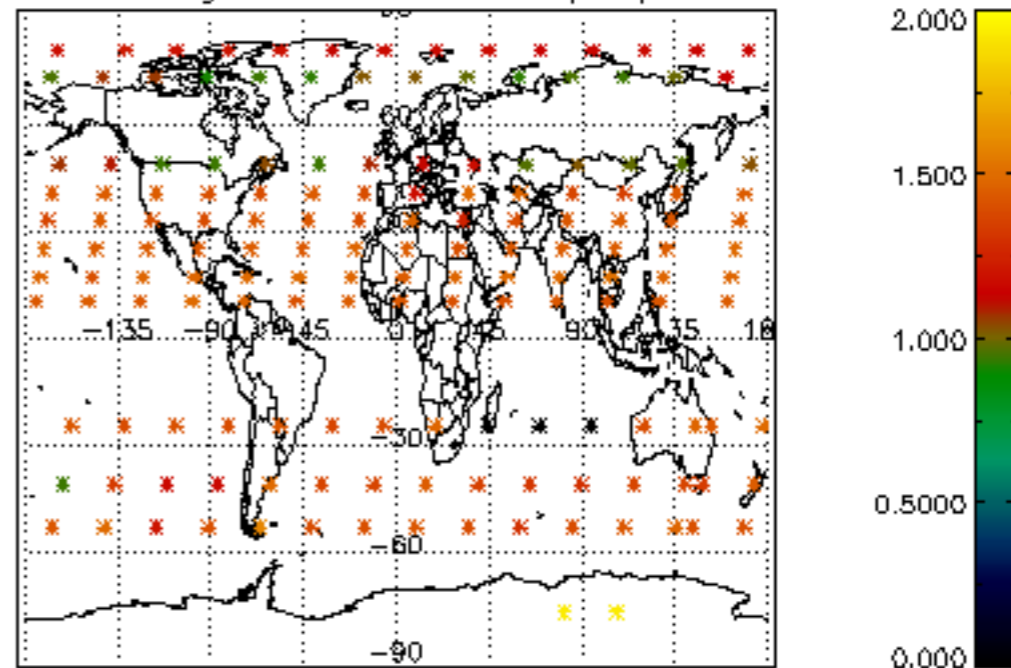
Percentage of saturation errors per profile



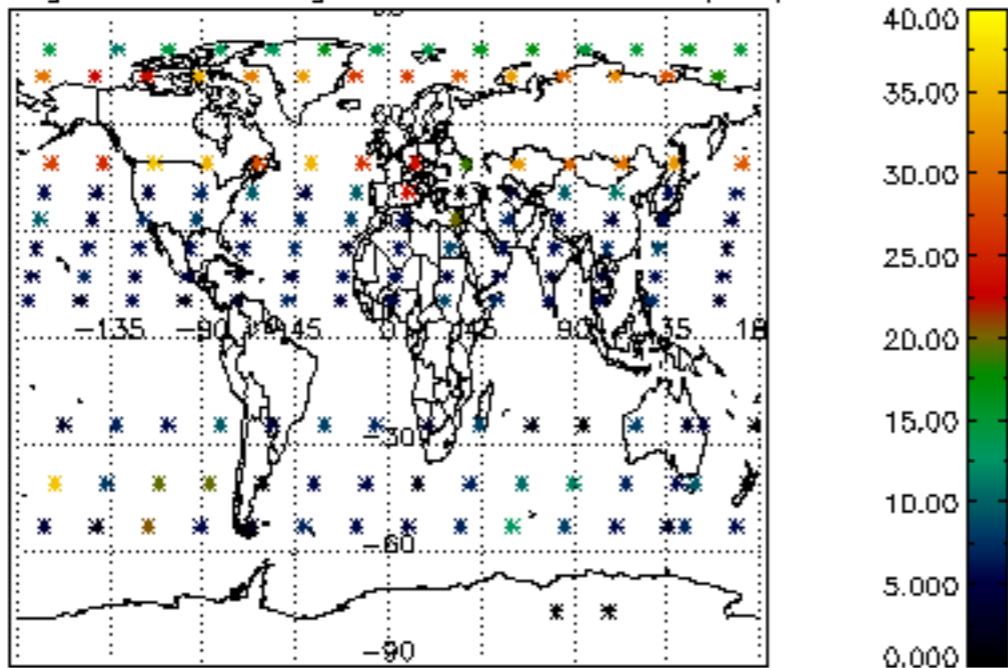
Percentage of cosmic ray hits per profile



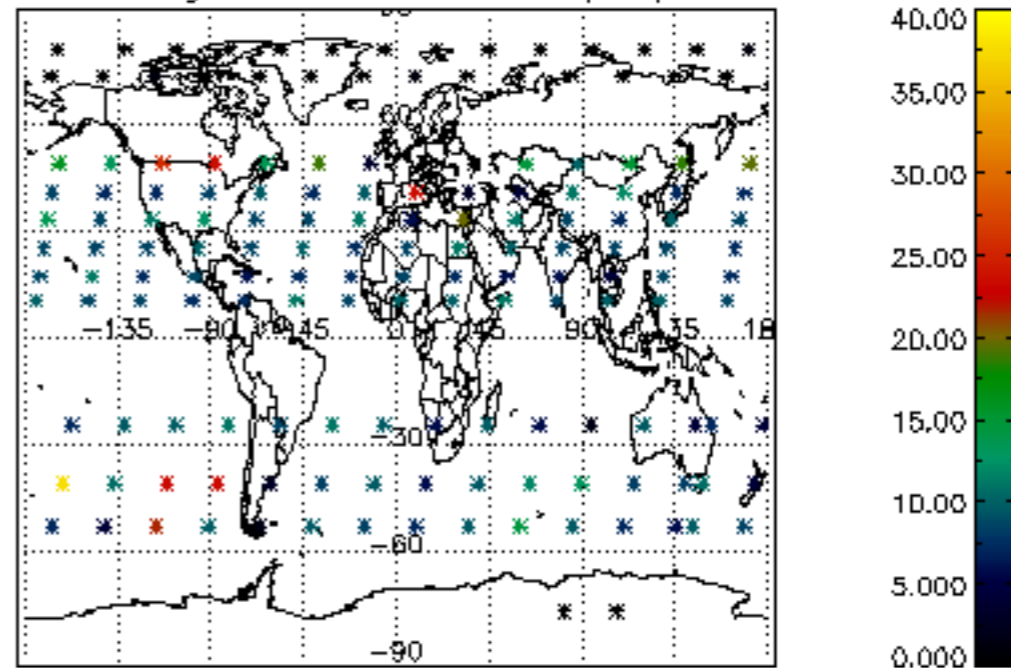
Percentage of datation errors per profile

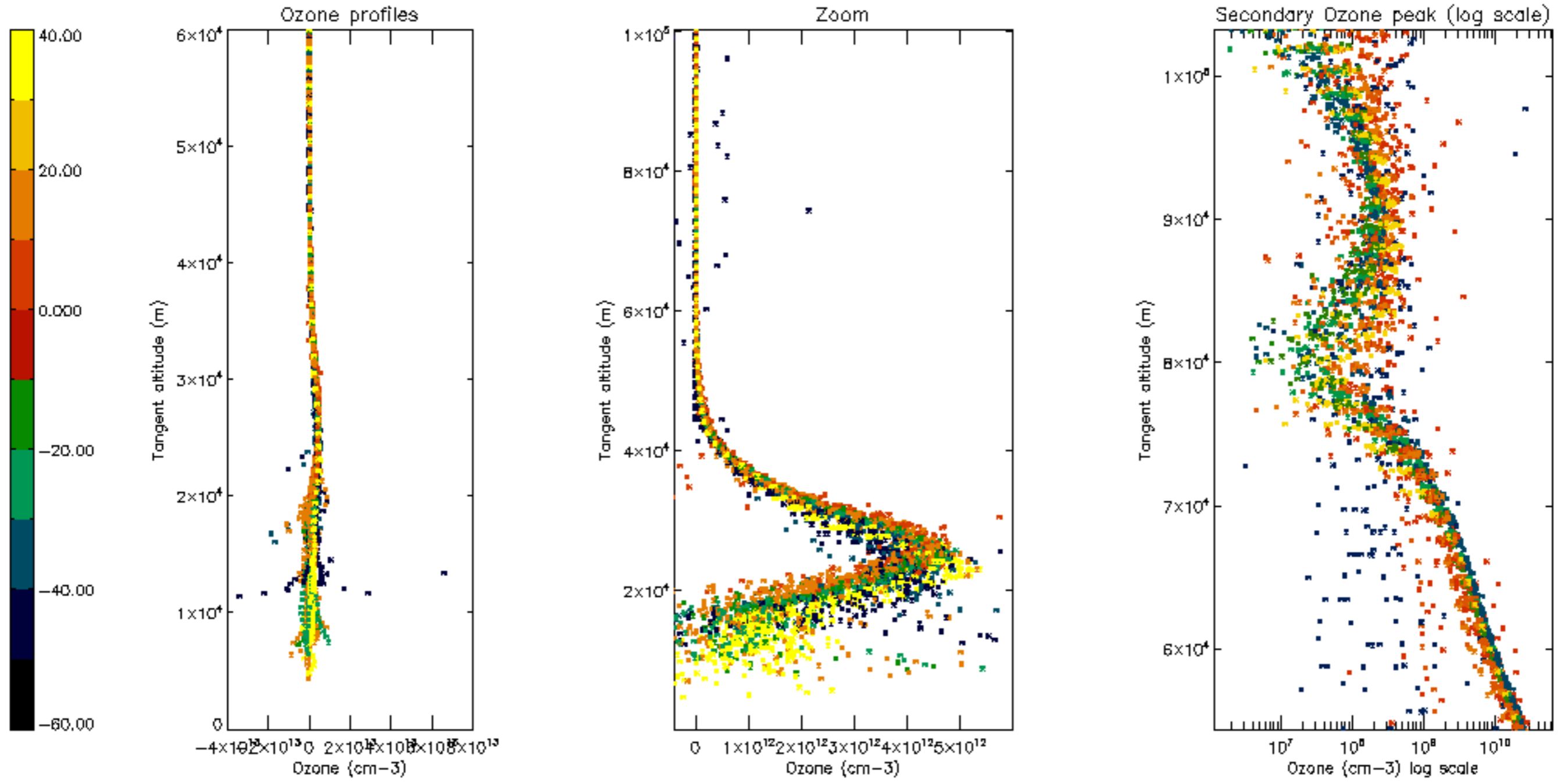


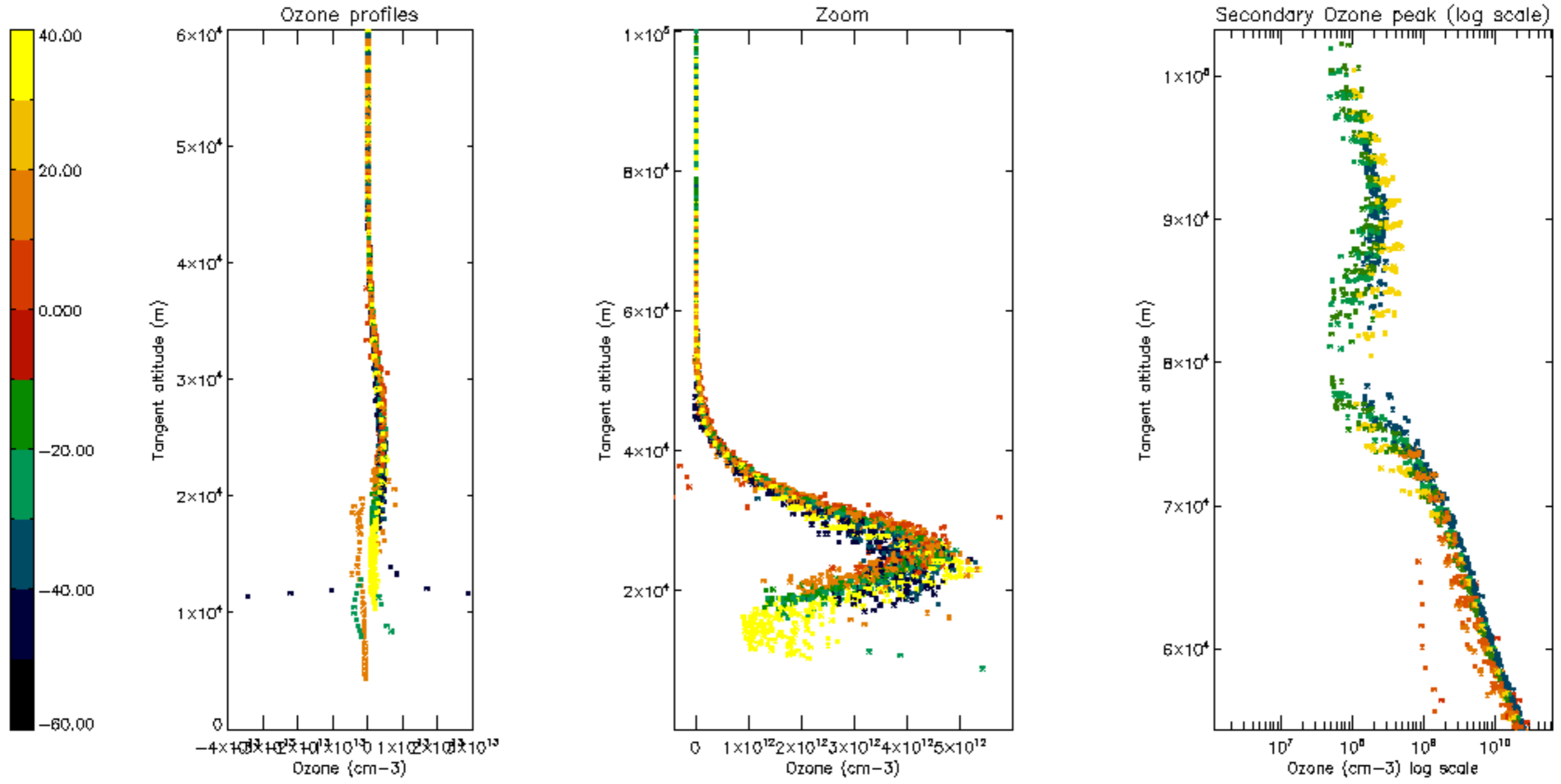
Percentage of star falling outside central band per profile

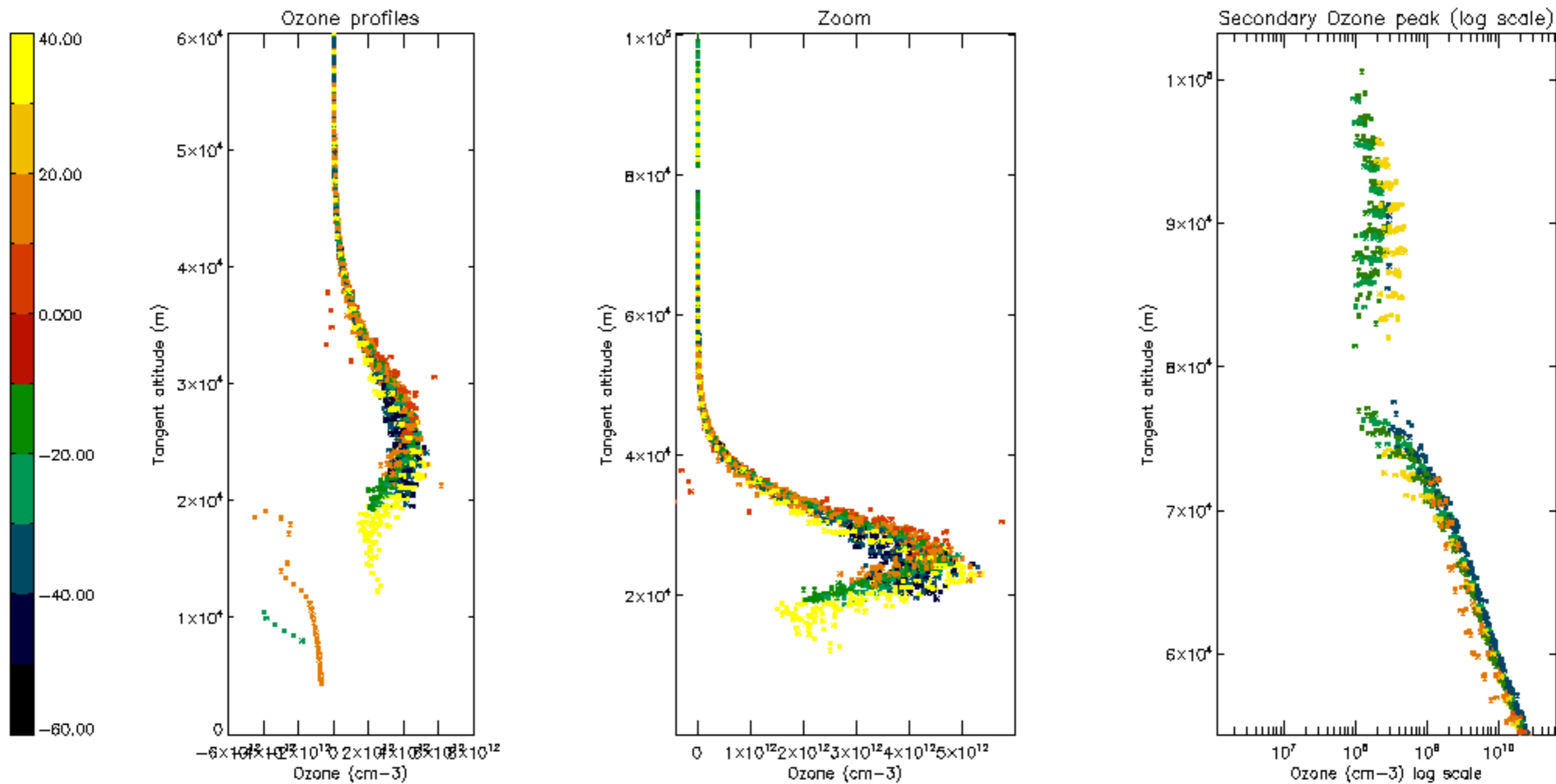


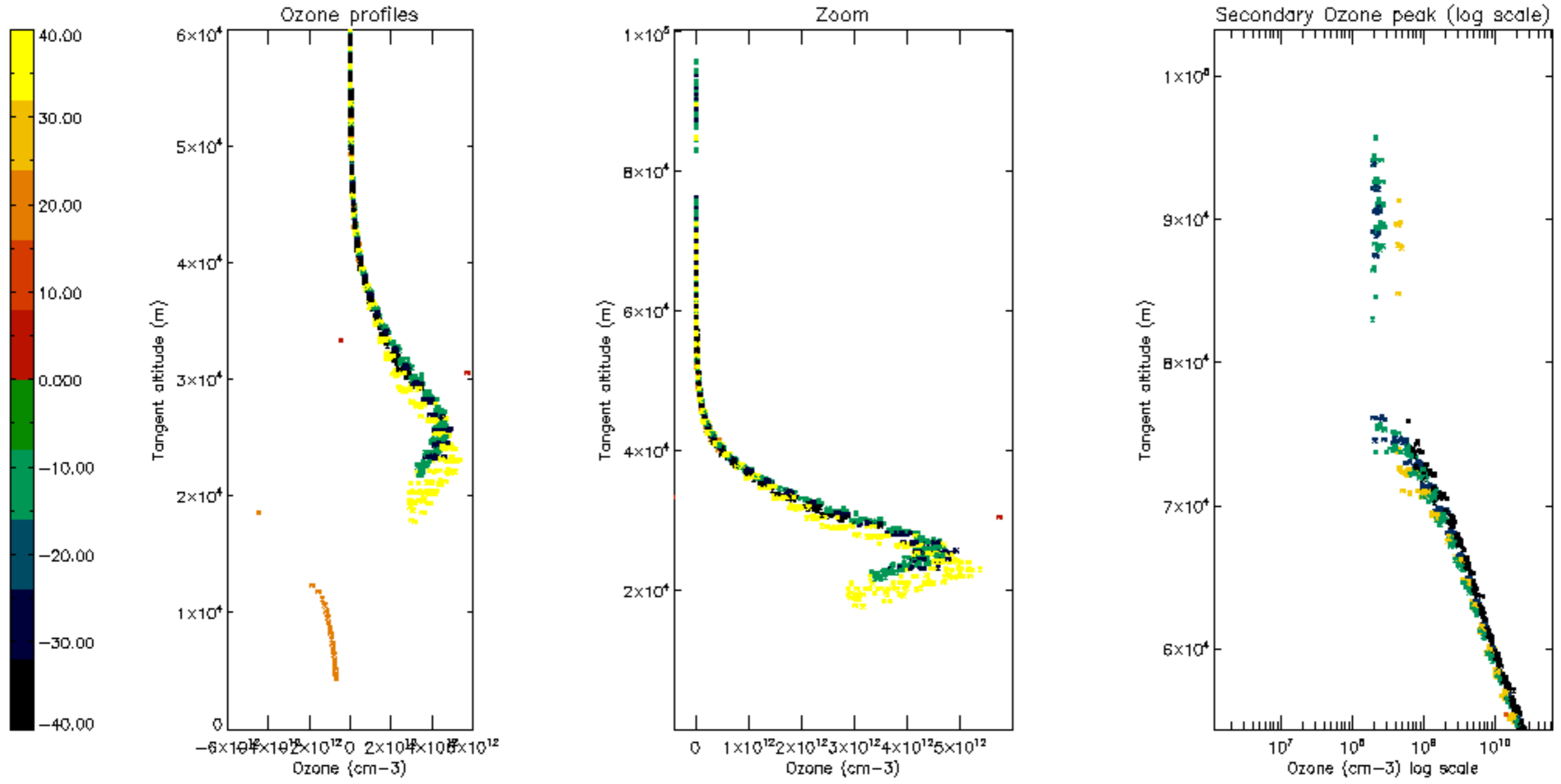
Percentage of saturation errors per profile

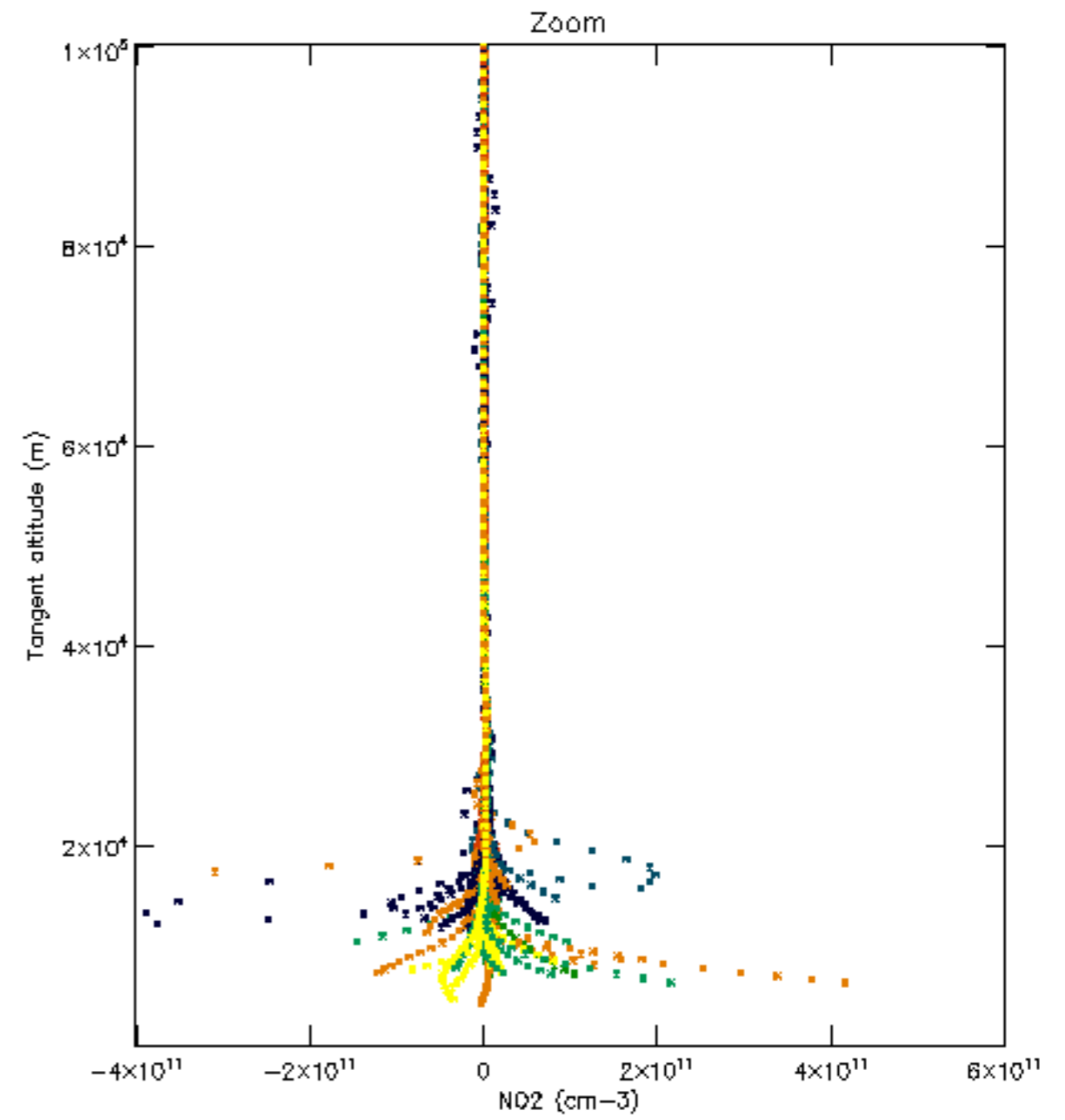
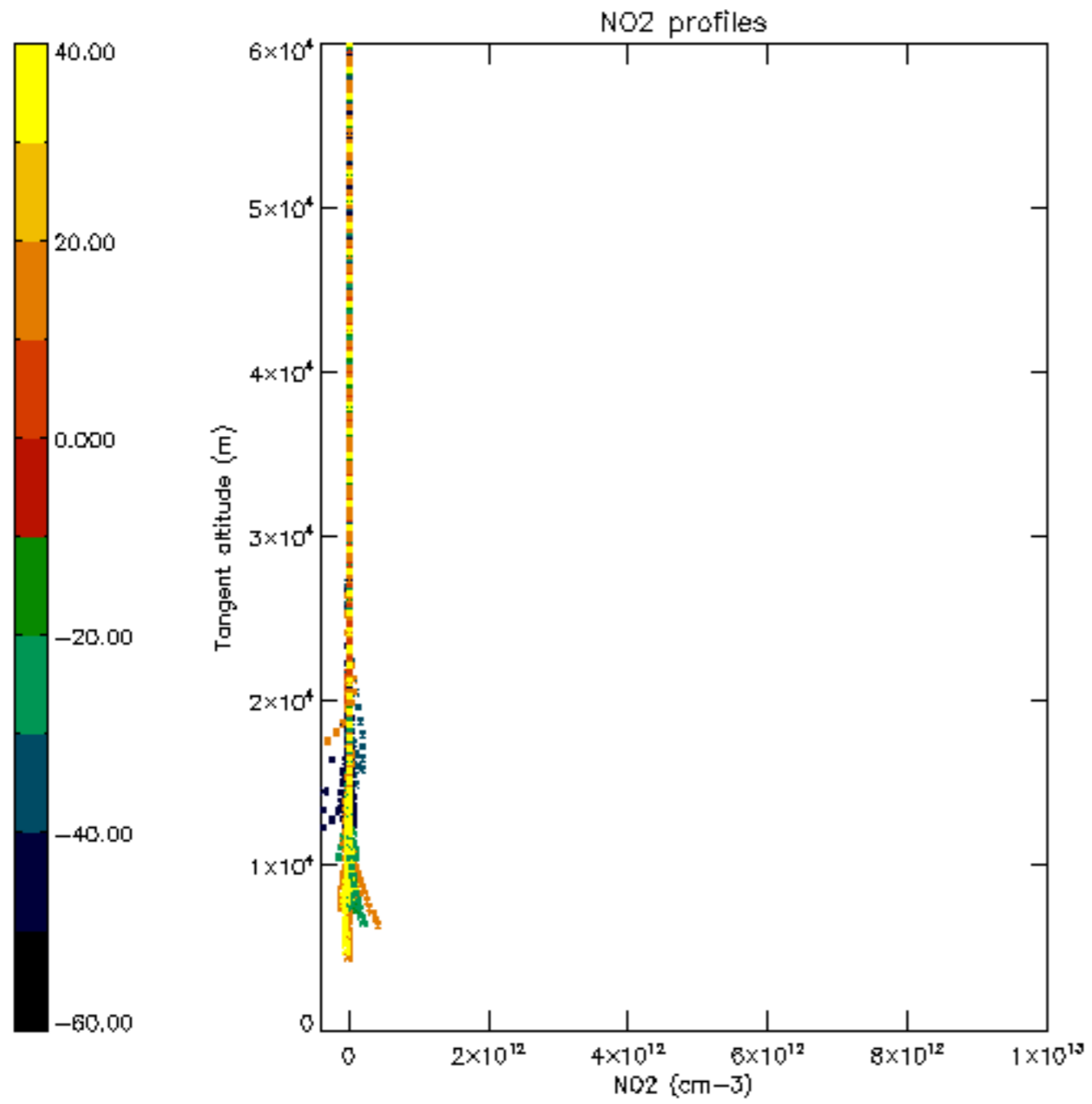


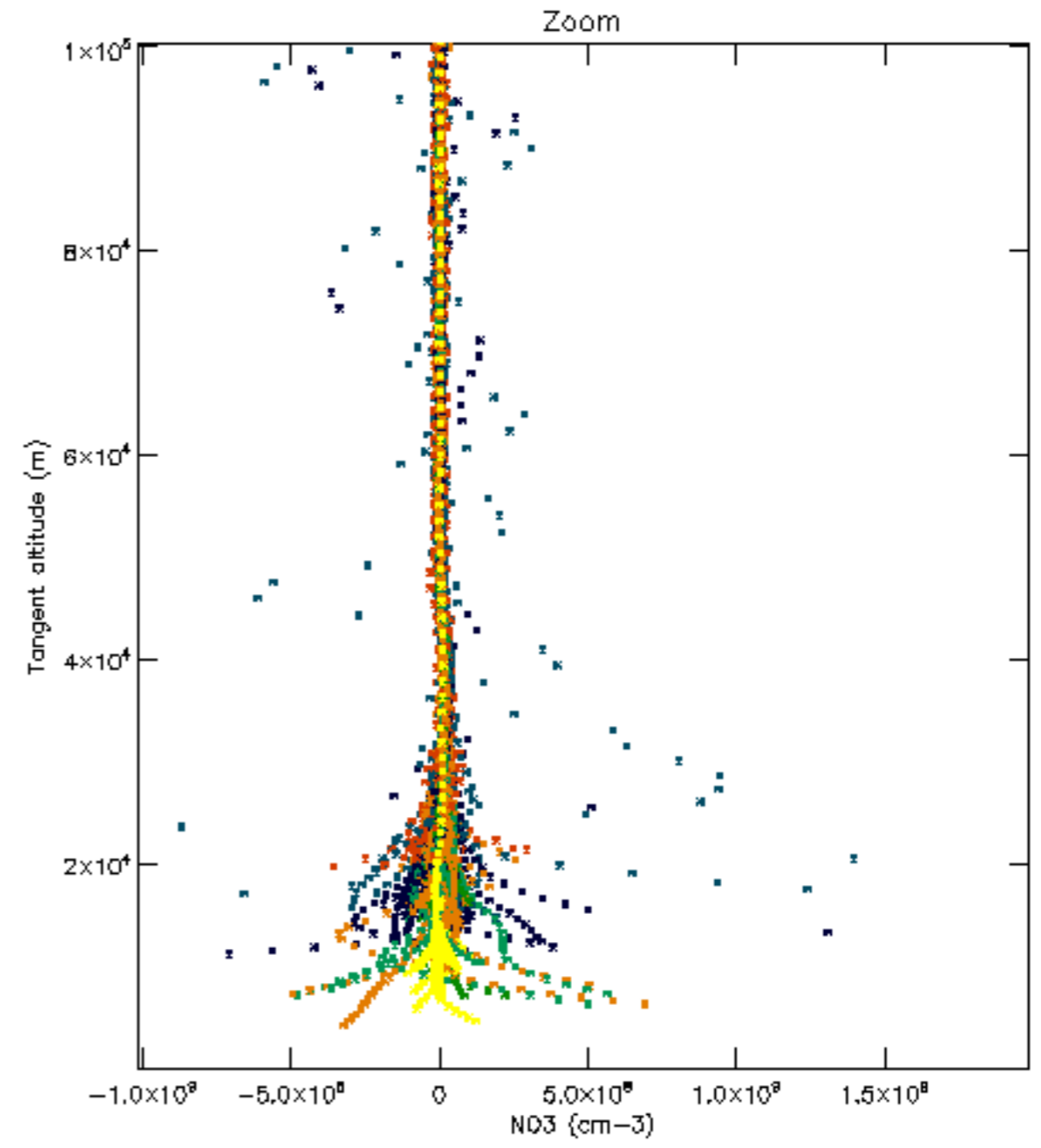
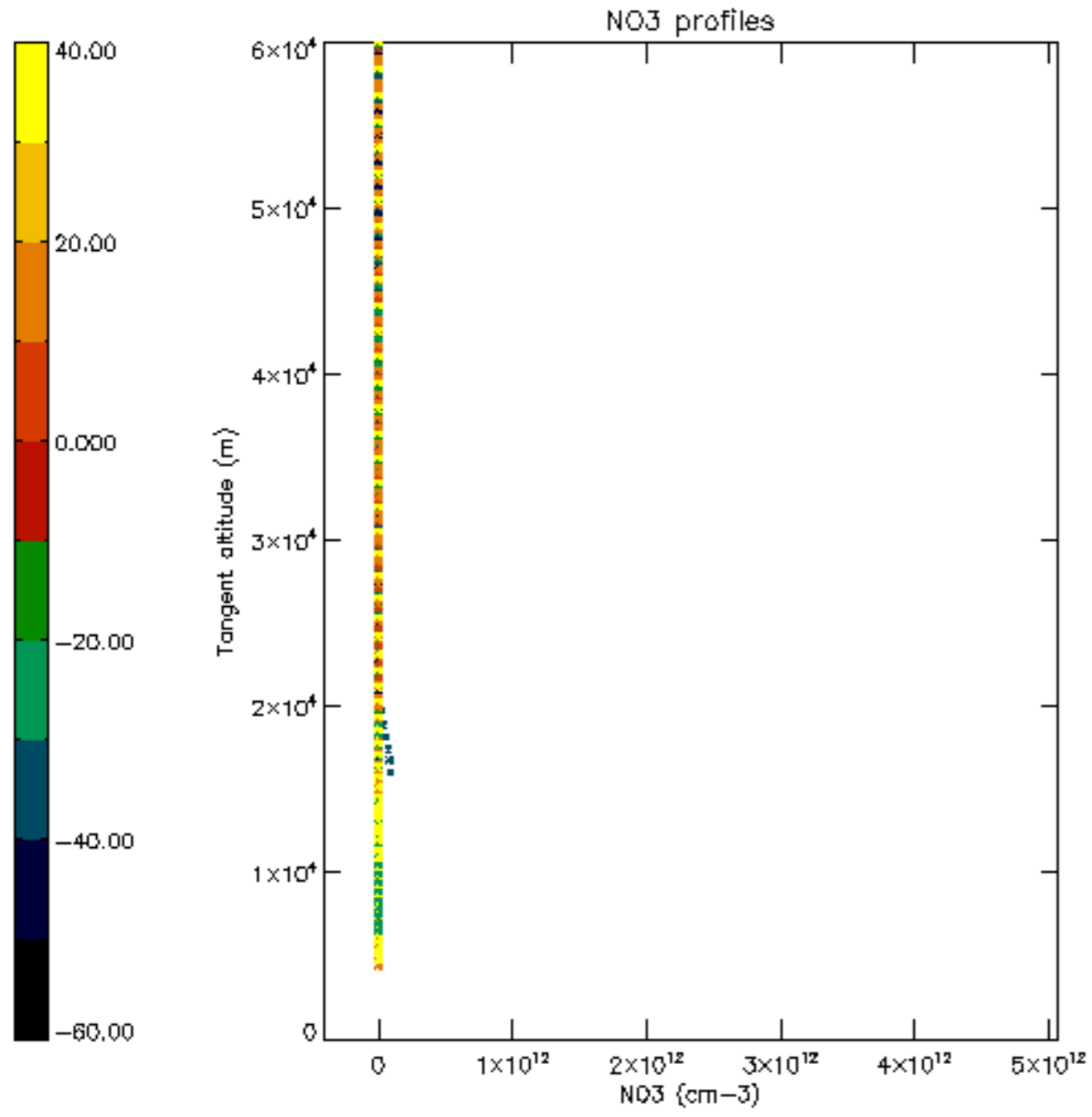


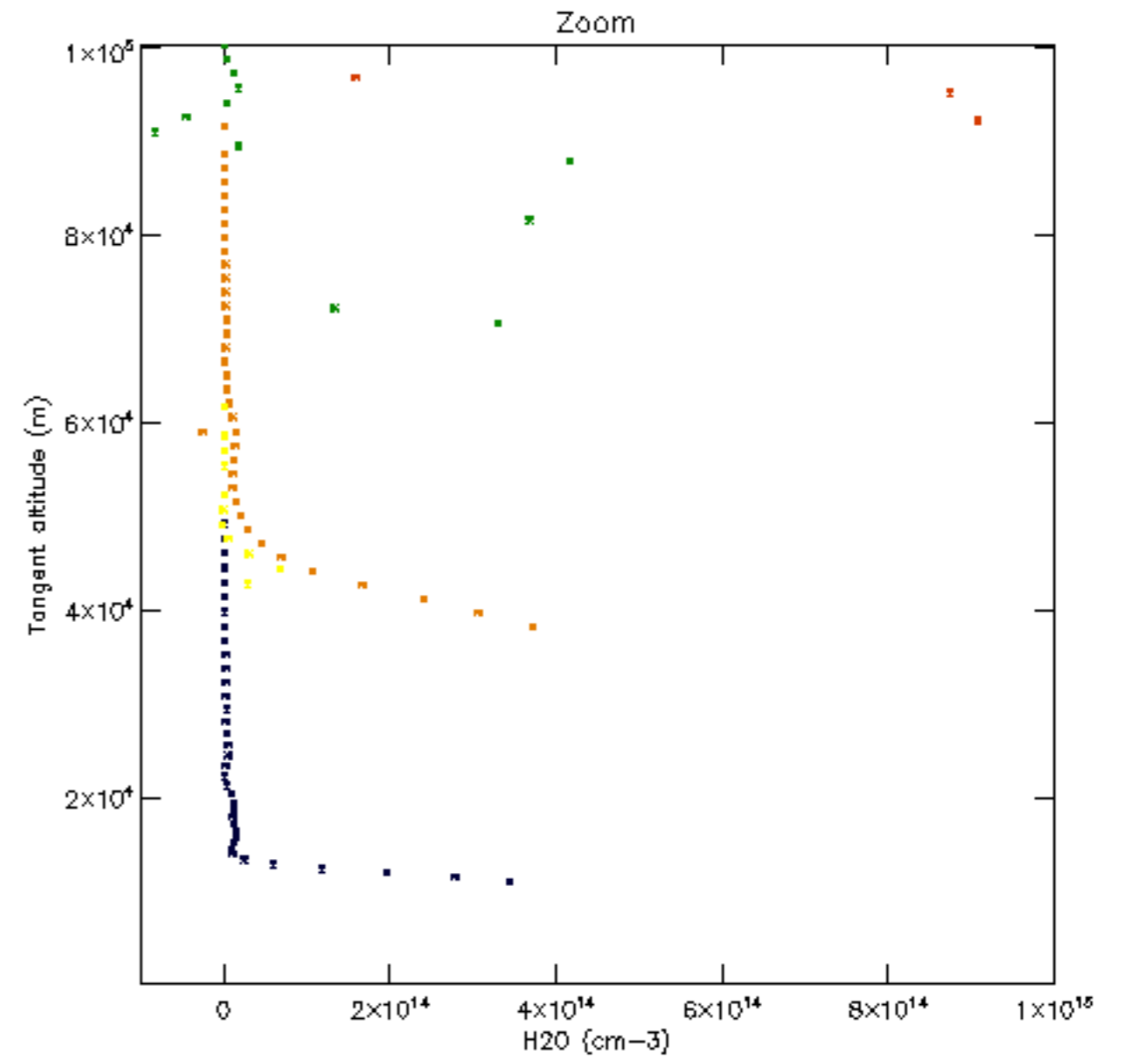
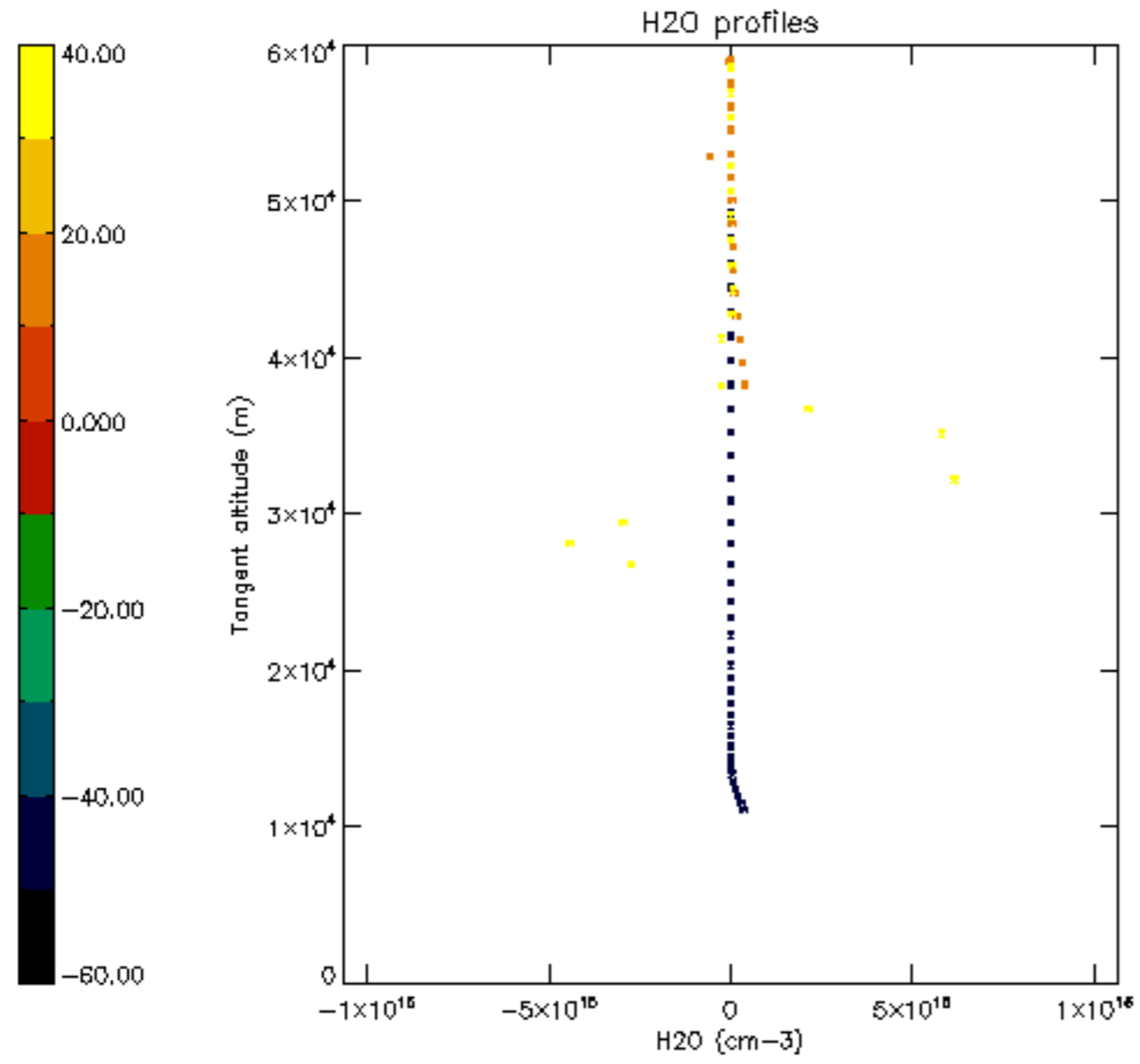


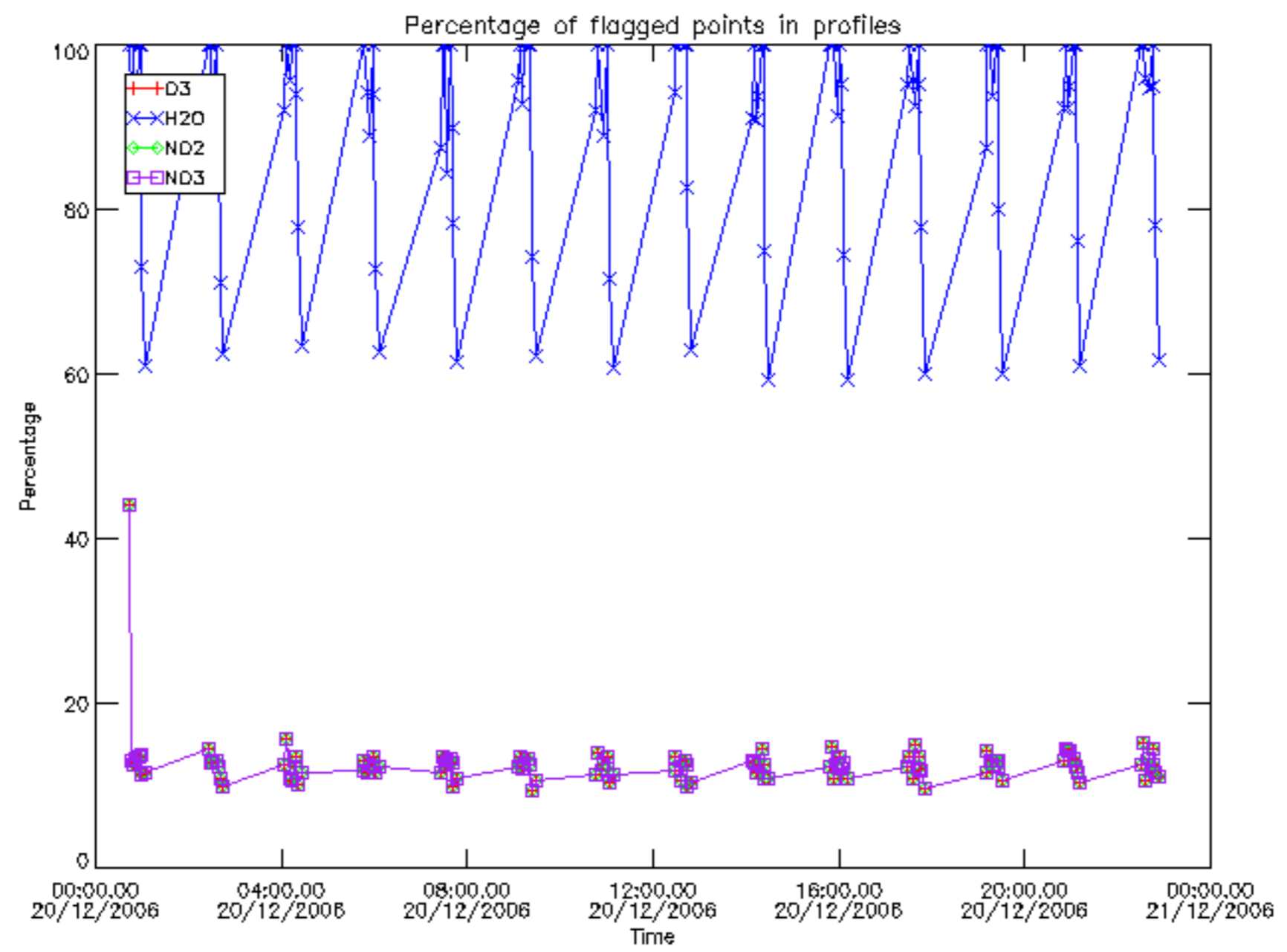




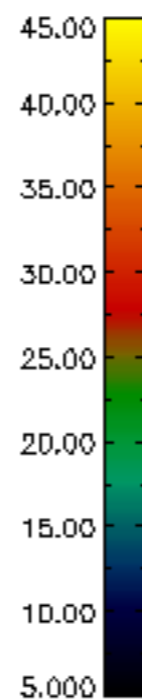
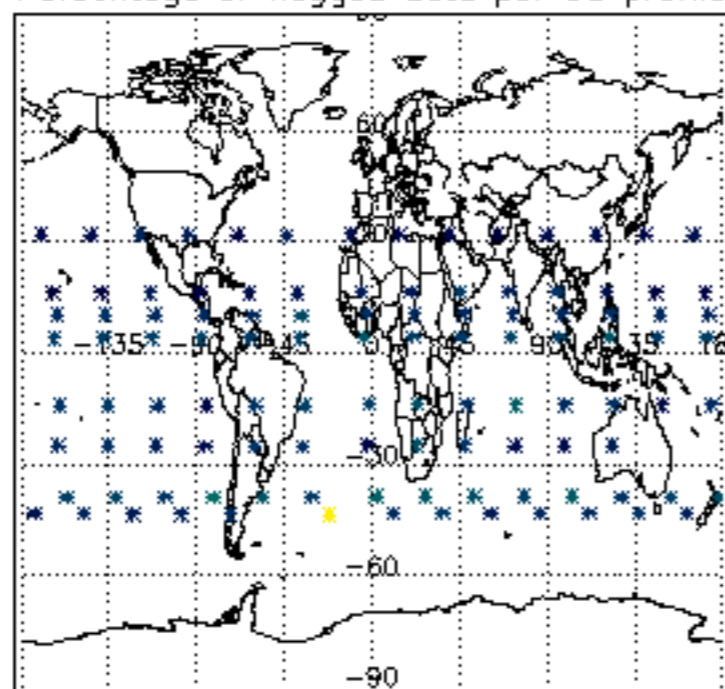




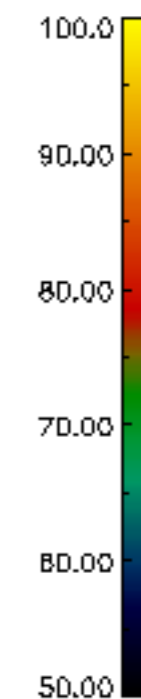
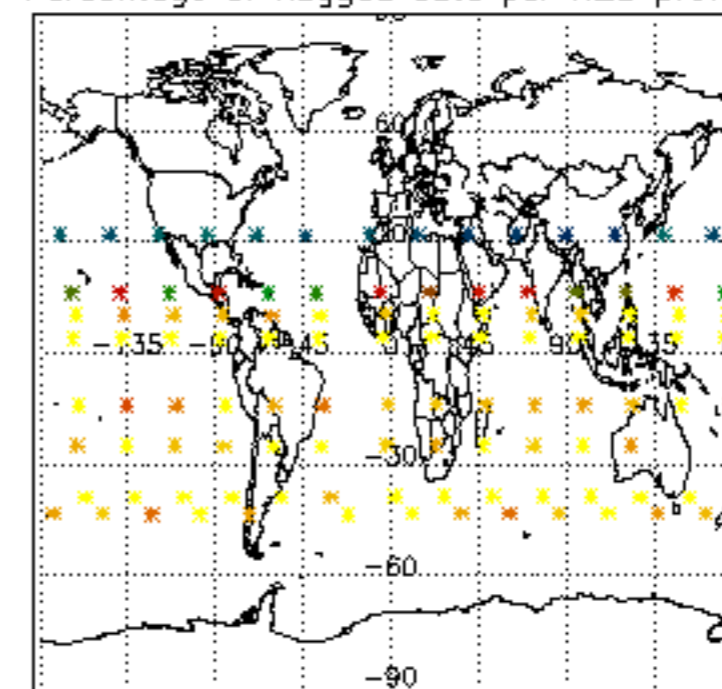




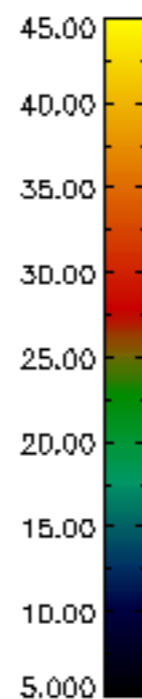
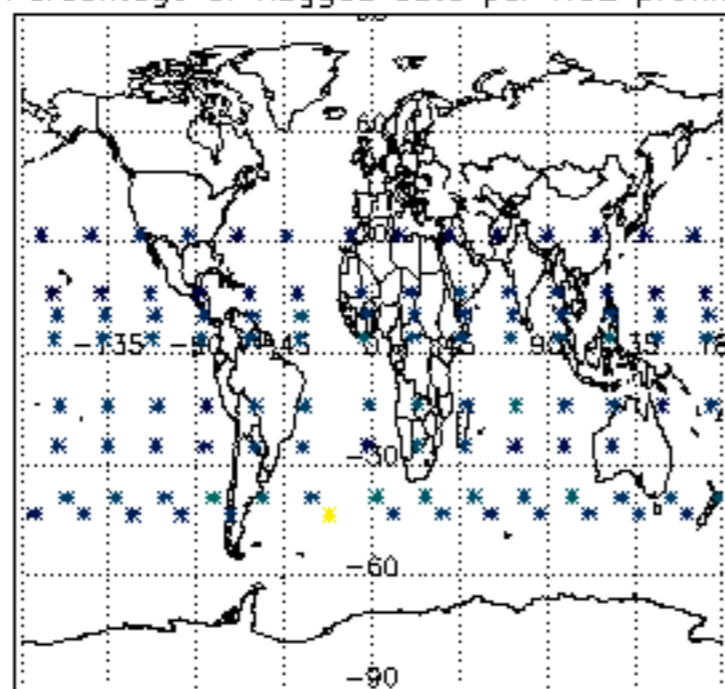
Percentage of flagged data per D3 profile



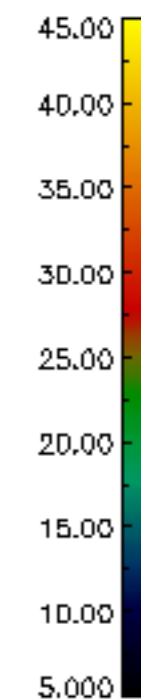
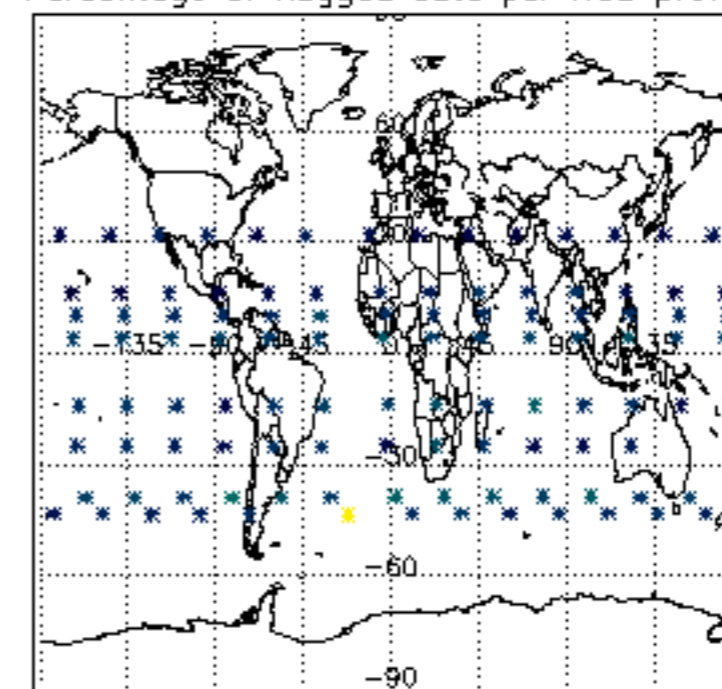
Percentage of flagged data per H2O profile

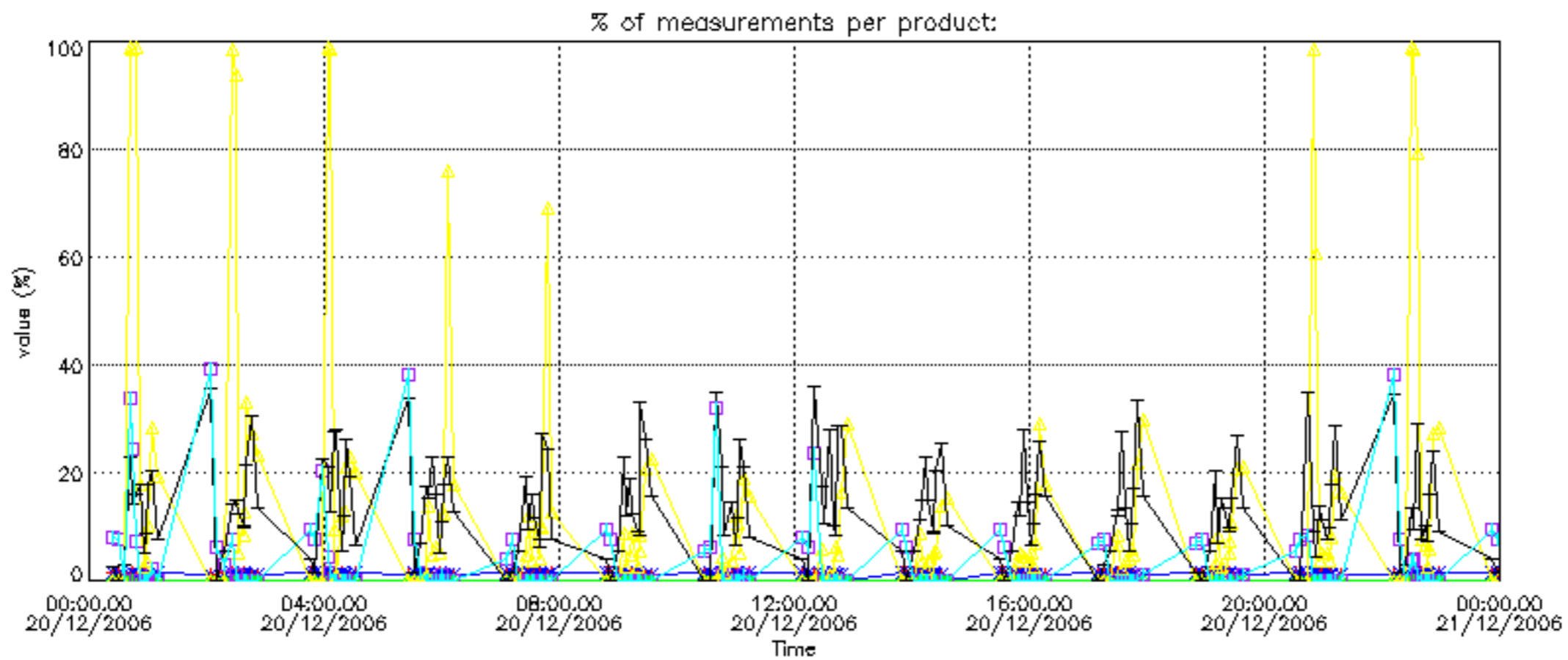


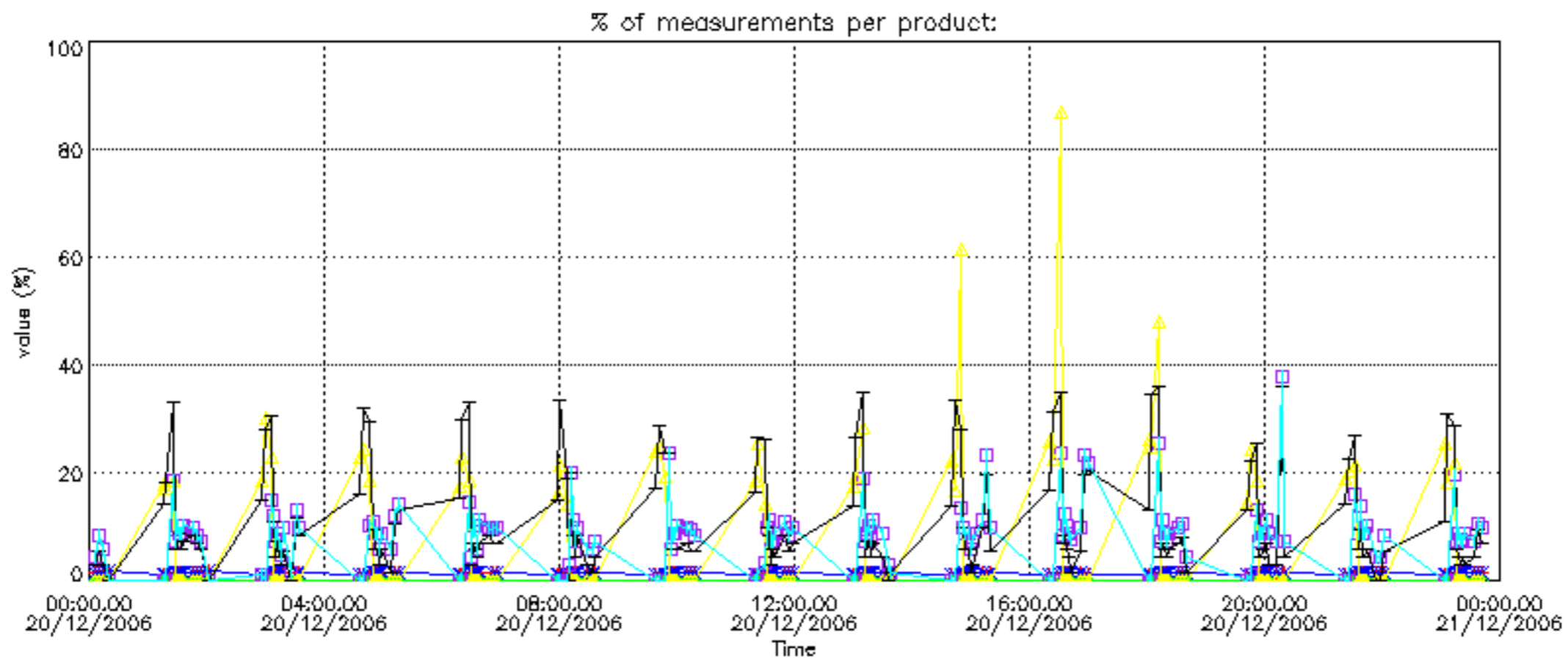
Percentage of flagged data per NO2 profile



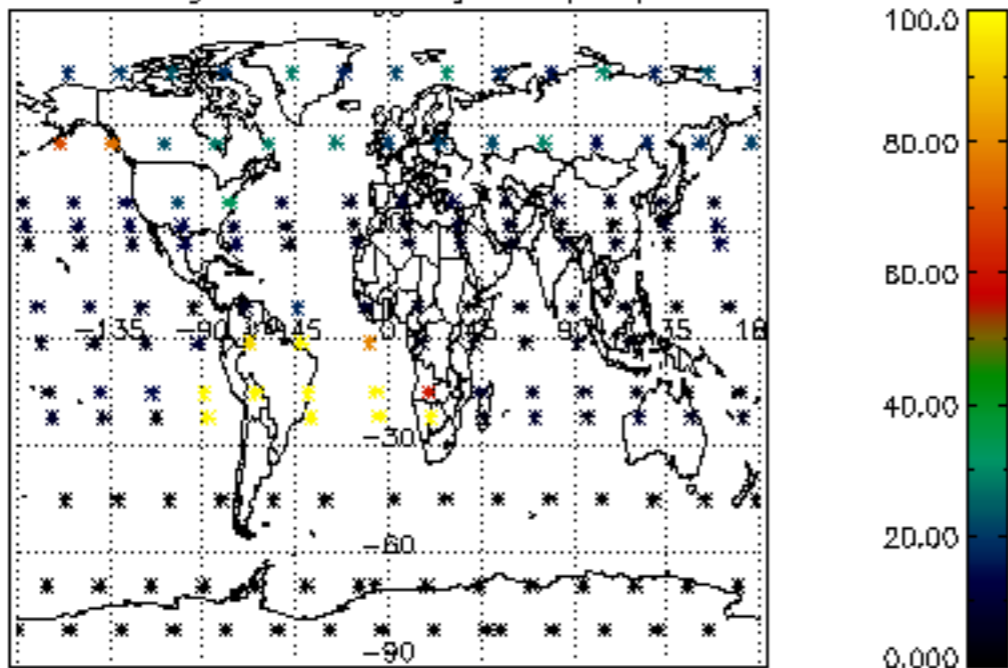
Percentage of flagged data per NO3 profile



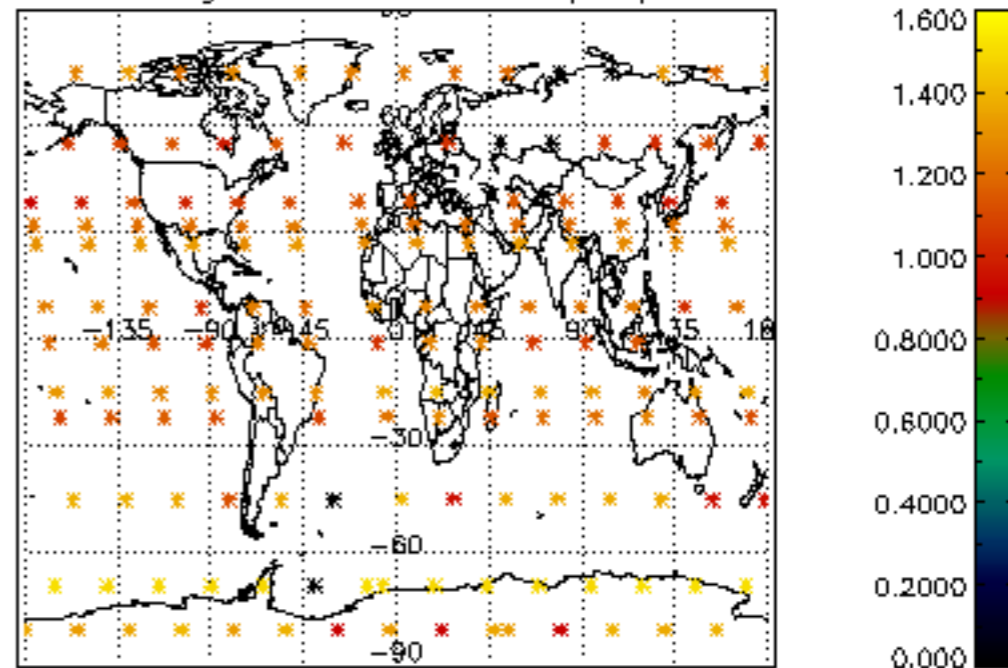




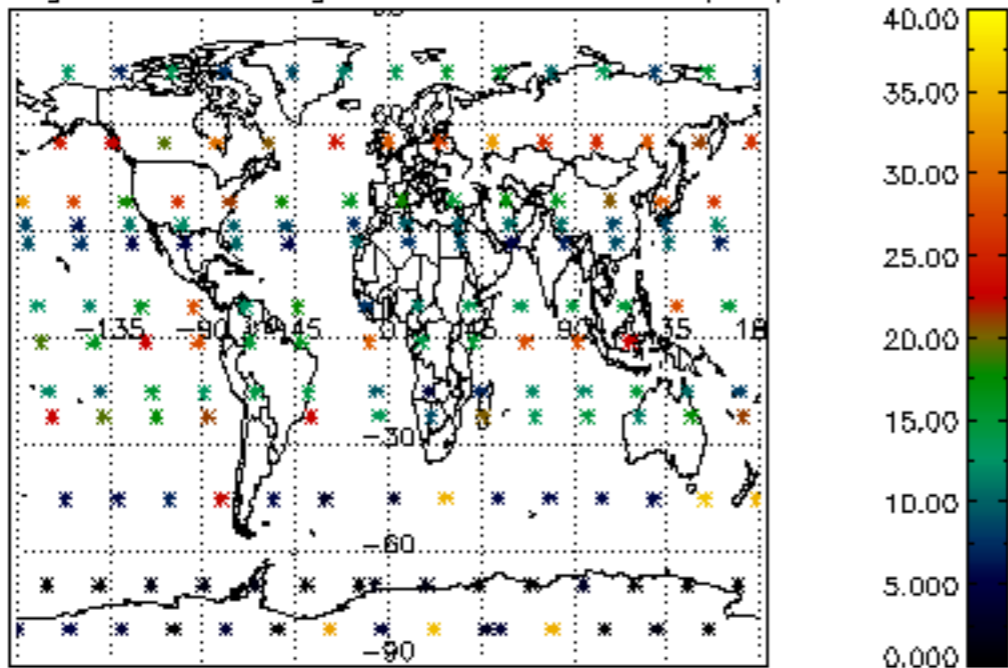
Percentage of cosmic ray hits per profile



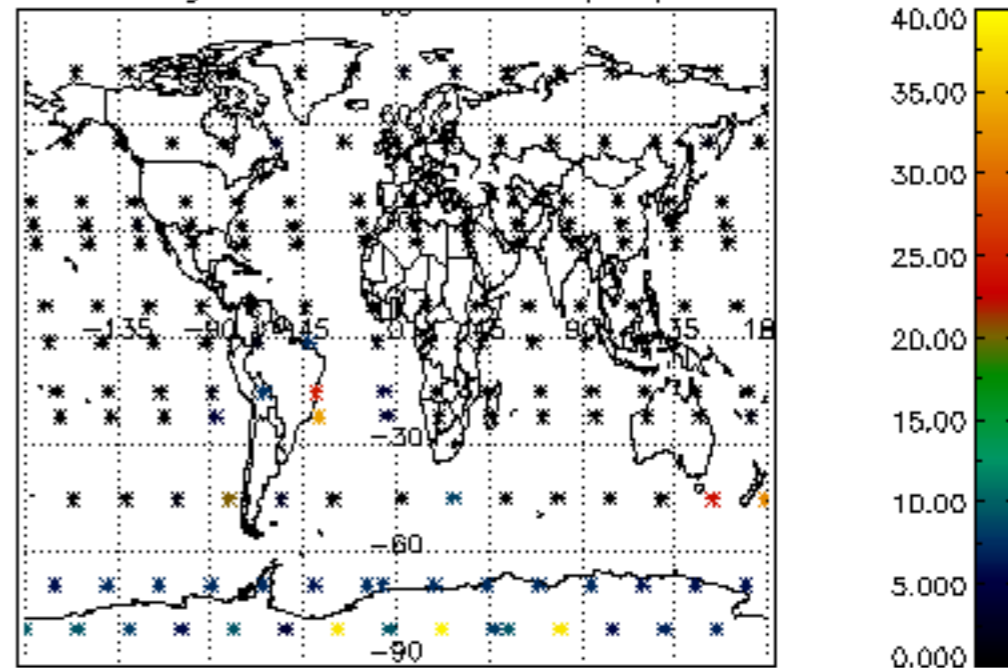
Percentage of datation errors per profile



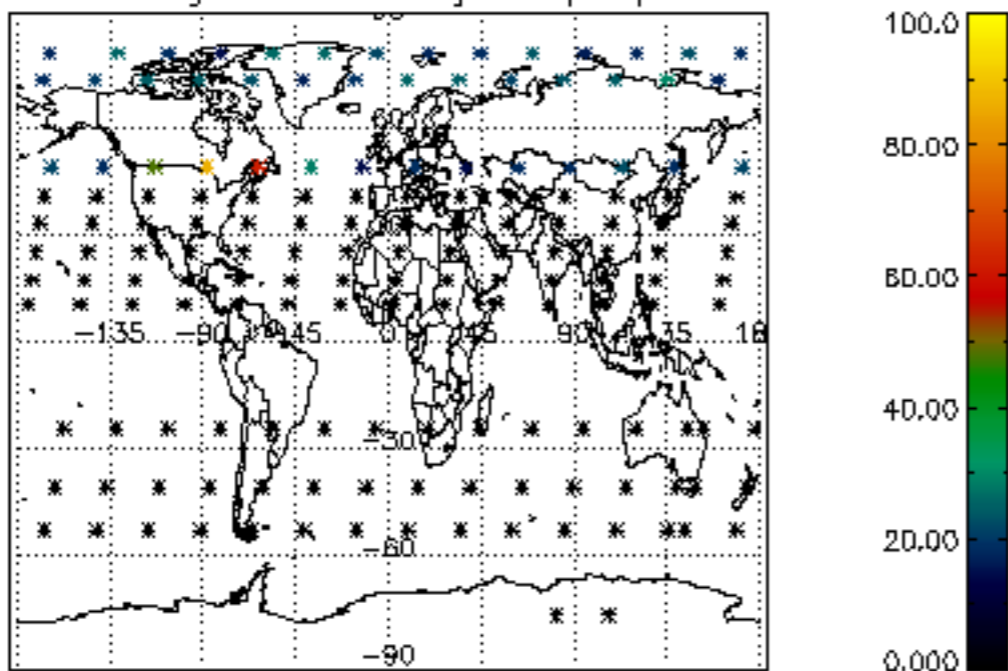
Percentage of star falling outside central band per profile



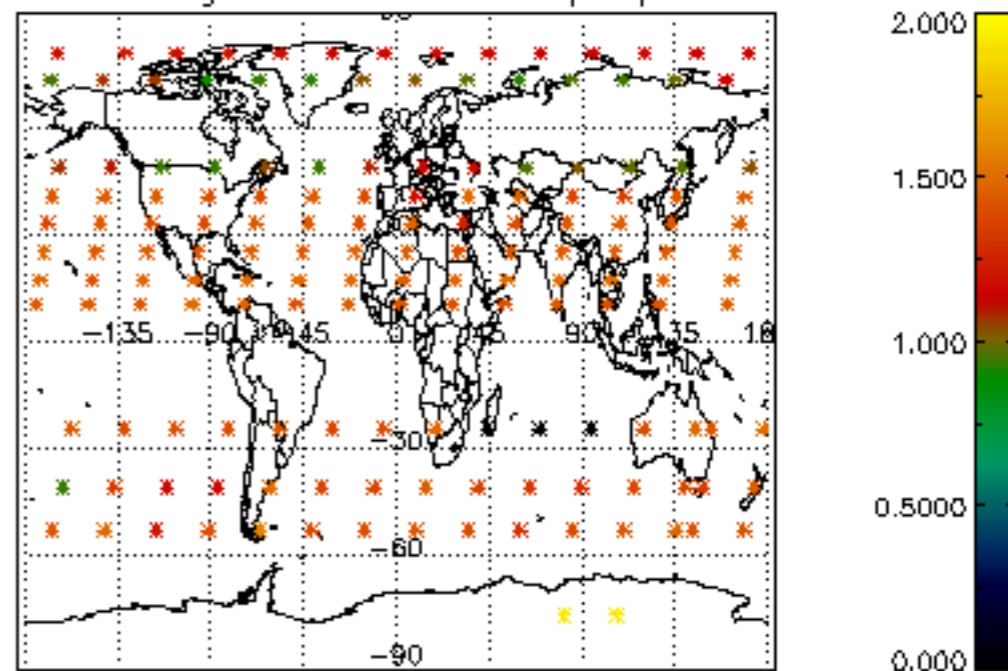
Percentage of saturation errors per profile



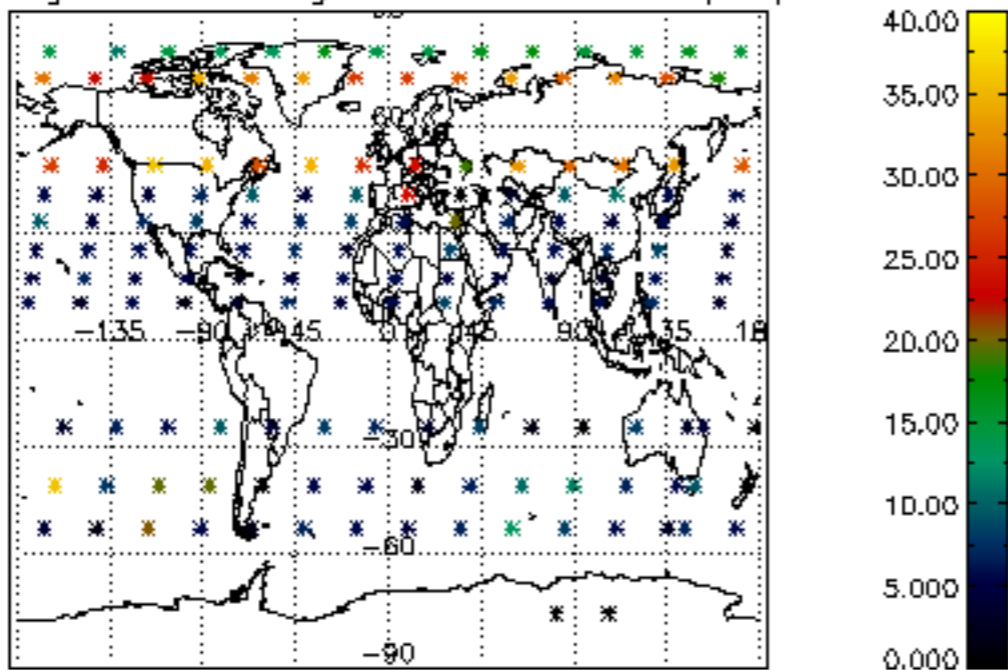
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

