

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	29APR2013 14:21:15
Data source version	GOMOS/6.01
Start time of products	18-08-2010 (18AUG2010 00:00:00)
Stop time of products	19-08-2010 (19AUG2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	321
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

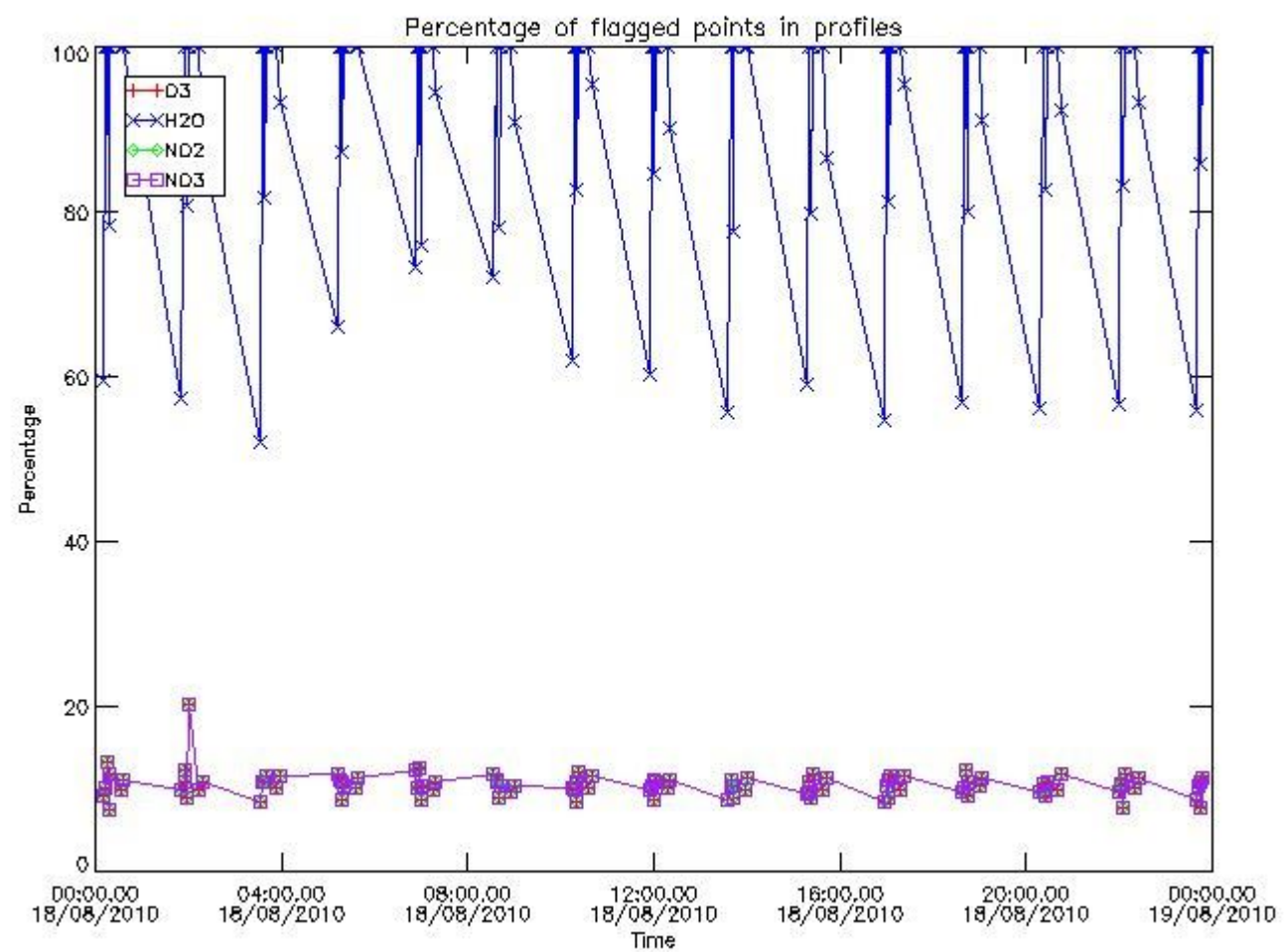
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100818_000102_000000592092_00116_44258_6264.N1	18-AUG-2010 00:01:02	Bright	59.000	107	37The Aur	2.6490	11000.	118	44258	No
2	GOM_NL__2PRFIN20100818_000412_000000542092_00116_44258_6265.N1	18-AUG-2010 00:04:12	Twilight	53.500	28	12Bet Tau	1.6500	15200.	107	44258	No
3	GOM_NL__2PRFIN20100818_000701_000000422092_00116_44258_6266.N1	18-AUG-2010 00:07:01	Twilight	42.000	44	24Gam Gem	1.9280	11000.	84	44258	No
4	GOM_NL__2PRFIN20100818_001036_000000612092_00116_44258_6267.N1	18-AUG-2010 00:10:36	Dark	61.000	14	58Alp Ori	0.87000	3000.0	122	44258	No
5	GOM_NL__2PRFIN20100818_001352_000000512092_00116_44258_6268.N1	18-AUG-2010 00:13:52	Dark	50.500	30	46Eps Ori	1.6940	30000.	101	44258	No
6	GOM_NL__2PRFIN20100818_001518_000000462092_00116_44258_6269.N1	18-AUG-2010 00:15:18	Dark	46.000	125	44lot Ori	2.7700	30000.	92	44258	No
7	GOM_NL__2PRFIN20100818_001656_000000682092_00116_44258_6270.N1	18-AUG-2010 00:16:56	Dark	67.500	7	19Bet Ori	0.10000	14000.	135	44258	No
8	GOM_NL__2PRFIN20100818_001845_000000442092_00116_44258_6271.N1	18-AUG-2010 00:18:45	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	44258	No
9	GOM_NL__2PRFIN20100818_003248_000000522092_00117_44259_6264.N1	18-AUG-2010 00:32:48	Dark	52.000	157	The1Eri	2.9060	9300.0	104	44259	No
10	GOM_NL__2PRFIN20100818_003642_000000462092_00117_44259_6265.N1	18-AUG-2010 00:36:42	Dark	46.000	9	Alp Eri	0.45300	24000.	92	44259	No
11	GOM_NL__2PRFIN20100818_004230_000000632092_00117_44259_6266.N1	18-AUG-2010 00:42:30	Straylight	62.500	84	Alp Phe	2.3970	4500.0	125	44259	No
12	GOM_NL__2PRFIN20100818_004553_000000412092_00117_44259_6267.N1	18-AUG-2010 00:45:53	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	44259	No
13	GOM_NL__2PRFIN20100818_004951_000000562092_00117_44259_6268.N1	18-AUG-2010 00:49:51	Twilight	55.500	18	24Alp PsA	1.1660	9700.0	111	44259	No
14	GOM_NL__2PRFIN20100818_005524_000000432092_00117_44259_6269.N1	18-AUG-2010 00:55:24	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	44259	No
15	GOM_NL__2PRFIN20100818_005849_000000422092_00117_44259_6270.N1	18-AUG-2010 00:58:49	Bright	41.500	154	22Bet Aqr	2.8990	5700.0	83	44259	No
16	GOM_NL__2PRFIN20100818_010047_000000492092_00117_44259_6271.N1	18-AUG-2010 01:00:47	Bright	48.500	162	34Alp Aqr	2.9440	5350.0	97	44259	No
17	GOM_NL__2PRFIN20100818_010356_000000472092_00117_44259_6272.N1	18-AUG-2010 01:03:56	Bright	47.000	61	8Eps Peg	2.1000	3900.0	94	44259	No
18	GOM_NL__2PRFIN20100818_011028_000000392092_00117_44259_6273.N1	18-AUG-2010 01:10:28	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	44259	No
19	GOM_NL__2PRFIN20100818_011205_000000392092_00117_44259_6274.N1	18-AUG-2010 01:12:05	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	44259	No
20	GOM_NL__2PRFIN20100818_011340_000000412092_00117_44259_6275.N1	18-AUG-2010 01:13:40	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	44259	No
21	GOM_NL__2PRFIN20100818_011900_000000392092_00117_44259_6276.N1	18-AUG-2010 01:19:00	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	44259	No
22	GOM_NL__2PRFIN20100818_013841_000000632092_00117_44259_6277.N1	18-AUG-2010 01:38:41	Bright	63.000	6	13Alp Aur	0.080000	3400.0	126	44259	No
23	GOM_NL__2PRFIN20100818_014138_000000592092_00117_44259_6278.N1	18-AUG-2010 01:41:38	Bright	59.000	107	37The Aur	2.6490	11000.	118	44259	No
24	GOM_NL__2PRFIN20100818_014448_000000542092_00117_44259_6279.N1	18-AUG-2010 01:44:48	Twilight	54.000	28	12Bet Tau	1.6500	15200.	108	44259	No
25	GOM_NL__2PRFIN20100818_014737_000000432092_00117_44259_6280.N1	18-AUG-2010 01:47:37	Twilight	42.500	44	24Gam Gem	1.9280	11000.	85	44259	No
26	GOM_NL__2PRFIN20100818_015112_000000522092_00117_44259_6281.N1	18-AUG-2010 01:51:12	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	44259	No
27	GOM_NL__2PRFIN20100818_015428_000000522092_00117_44259_6282.N1	18-AUG-2010 01:54:28	Dark	52.000	30	46Eps Ori	1.6940	30000.	104	44259	No
28	GOM_NL__2PRFIN20100818_015555_000000462092_00117_44259_6283.N1	18-AUG-2010 01:55:55	Dark	45.500	125	44lot Ori	2.7700	30000.	91	44259	No
29	GOM_NL__2PRFIN20100818_015732_000000582092_00117_44259_6284.N1	18-AUG-2010 01:57:32	Dark	57.500	7	19Bet Ori	0.10000	14000.	115	44259	No
30	GOM_NL__2PRFIN20100818_015921_000000482092_00117_44259_6285.N1	18-AUG-2010 01:59:21	Dark	47.500	101	11Alp Lep	2.5820	7000.0	95	44259	No
31	GOM_NL__2PRFIN20100818_021325_000000512092_00118_44260_6274.N1	18-AUG-2010 02:13:25	Dark	51.000	157	The1Eri	2.9060	9300.0	102	44260	No
32	GOM_NL__2PRFIN20100818_021719_000000472092_00118_44260_6275.N1	18-AUG-2010 02:17:19	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44260	No
33	GOM_NL__2PRFIN20100818_022306_000000582092_00118_44260_6276.N1	18-AUG-2010 02:23:06	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	44260	No
34	GOM_NL__2PRFIN20100818_022629_000000422092_00118_44260_6277.N1	18-AUG-2010 02:26:29	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	44260	No
35	GOM_NL__2PRFIN20100818_023028_000000552092_00118_44260_6278.N1	18-AUG-2010 02:30:28	Twilight	55.000	18	24Alp PsA	1.1660	9700.0	110	44260	No
36	GOM_NL__2PRFIN20100818_023600_000000442092_00118_44260_6279.N1	18-AUG-2010 02:36:00	Bright	44.000	142	49Del Cap	2.8500	8900.0	88	44260	No
37	GOM_NL__2PRFIN20100818_023925_000000432092_00118_44260_6280.N1	18-AUG-2010 02:39:25	Bright	42.500	154	22Bet Aqr	2.8990	5700.0	85	44260	No
38	GOM_NL__2PRFIN20100818_024123_000000492092_00118_44260_6281.N1	18-AUG-2010 02:41:23	Bright	48.500	162	34Alp Aqr	2.9440	5350.0	97	44260	No
39	GOM_NL__2PRFIN20100818_024432_000000452092_00118_44260_6282.N1	18-AUG-2010 02:44:32	Bright	44.500	61	8Eps Peg	2.1000	3900.0	89	44260	No
40	GOM_NL__2PRFIN20100818_025104_000000372092_00118_44260_6283.N1	18-AUG-2010 02:51:04	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	44260	No
41	GOM_NL__2PRFIN20100818_025241_000000352092_00118_44260_6284.N1	18-AUG-2010 02:52:41	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	44260	No
42	GOM_NL__2PRFIN20100818_025416_000000392092_00118_44260_6285.N1	18-AUG-2010 02:54:16	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	44260	No

279	GOM_NL__2PRFIN20100818_205309_000000432092_00129_44271_6608.N1	18-AUG-2010 20:53:09	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	44271	No
280	GOM_NL__2PRFIN20100818_205707_000000552092_00129_44271_6609.N1	18-AUG-2010 20:57:07	Twilight_stray	55.000	18	24Alp PsA	1.1660	9700.0	110	44271	No
281	GOM_NL__2PRFIN20100818_210237_000000592092_00129_44271_6610.N1	18-AUG-2010 21:02:37	Bright	59.000	142	49Del Cap	2.8500	8900.0	118	44271	No
282	GOM_NL__2PRFIN20100818_210600_000000422092_00129_44271_6611.N1	18-AUG-2010 21:06:00	Bright	42.000	154	22Bet Aqr	2.8990	5700.0	84	44271	No
283	GOM_NL__2PRFIN20100818_210756_000000492092_00129_44271_6612.N1	18-AUG-2010 21:07:56	Bright	49.000	162	34Alp Aqr	2.9440	5350.0	98	44271	No
284	GOM_NL__2PRFIN20100818_211104_000000452092_00129_44271_6613.N1	18-AUG-2010 21:11:04	Bright	44.500	61	8Eps Peg	2.1000	3900.0	89	44271	No
285	GOM_NL__2PRFIN20100818_211737_000000372092_00129_44271_6614.N1	18-AUG-2010 21:17:37	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	44271	No
286	GOM_NL__2PRFIN20100818_211916_000000342092_00129_44271_6615.N1	18-AUG-2010 21:19:16	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	44271	No
287	GOM_NL__2PRFIN20100818_212050_000000382092_00129_44271_6616.N1	18-AUG-2010 21:20:50	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	44271	No
288	GOM_NL__2PRFIN20100818_212608_000000382092_00129_44271_6617.N1	18-AUG-2010 21:26:08	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	44271	No
289	GOM_NL__2PRFIN20100818_213039_000000292092_00129_44271_6618.N1	18-AUG-2010 21:30:39	Twilight_stray	29.000	74	11Bet Cas	2.2680	6600.0	58	44271	No
290	GOM_NL__2PRFIN20100818_214551_000000492092_00129_44271_6619.N1	18-AUG-2010 21:45:51	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	44271	No
291	GOM_NL__2PRFIN20100818_214851_000000412092_00129_44271_6620.N1	18-AUG-2010 21:48:51	Bright	41.000	107	37The Aur	2.6490	11000.	82	44271	No
292	GOM_NL__2PRFIN20100818_215201_000000522092_00129_44271_6621.N1	18-AUG-2010 21:52:01	Twilight_stray	51.500	28	12Bet Tau	1.6500	15200.	103	44271	No
293	GOM_NL__2PRFIN20100818_215452_000000442092_00129_44271_6622.N1	18-AUG-2010 21:54:52	Twilight_stray	44.000	44	24Gam Gem	1.9280	11000.	88	44271	No
294	GOM_NL__2PRFIN20100818_215829_000000542092_00129_44271_6623.N1	18-AUG-2010 21:58:29	Dark	53.500	14	58Alp Ori	0.87000	3000.0	107	44271	No
295	GOM_NL__2PRFIN20100818_220147_000000482092_00129_44271_6624.N1	18-AUG-2010 22:01:47	Dark	48.000	30	46Eps Ori	1.6940	30000.	96	44271	No
296	GOM_NL__2PRFIN20100818_220314_000000492092_00129_44271_6625.N1	18-AUG-2010 22:03:14	Dark	49.000	125	44lot Ori	2.7700	30000.	98	44271	No
297	GOM_NL__2PRFIN20100818_220454_000000662092_00129_44271_6626.N1	18-AUG-2010 22:04:54	Dark	66.000	7	19Bet Ori	0.10000	14000.	132	44271	No
298	GOM_NL__2PRFIN20100818_220642_000000442092_00129_44271_6627.N1	18-AUG-2010 22:06:42	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	44271	No
299	GOM_NL__2PRFIN20100818_222050_000000512092_00130_44272_6621.N1	18-AUG-2010 22:20:50	Dark	50.500	157	The1Eri	2.9060	9300.0	101	44272	No
300	GOM_NL__2PRFIN20100818_222438_000000452092_00130_44272_6622.N1	18-AUG-2010 22:24:38	Dark	45.000	9	Alp Eri	0.45300	24000.	90	44272	No
301	GOM_NL__2PRFIN20100818_223028_000000602092_00130_44272_6623.N1	18-AUG-2010 22:30:28	Straylight	60.000	84	Alp Phe	2.3970	4500.0	120	44272	No
302	GOM_NL__2PRFIN20100818_223345_000000412092_00130_44272_6624.N1	18-AUG-2010 22:33:45	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	44272	No
303	GOM_NL__2PRFIN20100818_223744_000000562092_00130_44272_6625.N1	18-AUG-2010 22:37:44	Twilight_stray	55.500	18	24Alp PsA	1.1660	9700.0	111	44272	No
304	GOM_NL__2PRFIN20100818_224313_000000462092_00130_44272_6626.N1	18-AUG-2010 22:43:13	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	44272	No
305	GOM_NL__2PRFIN20100818_224636_000000422092_00130_44272_6627.N1	18-AUG-2010 22:46:36	Bright	41.500	154	22Bet Aqr	2.8990	5700.0	83	44272	No
306	GOM_NL__2PRFIN20100818_224832_000000472092_00130_44272_6628.N1	18-AUG-2010 22:48:32	Bright	47.000	162	34Alp Aqr	2.9440	5350.0	94	44272	No
307	GOM_NL__2PRFIN20100818_225140_000000472092_00130_44272_6629.N1	18-AUG-2010 22:51:40	Bright	46.500	61	8Eps Peg	2.1000	3900.0	93	44272	No
308	GOM_NL__2PRFIN20100818_225813_000000362092_00130_44272_6630.N1	18-AUG-2010 22:58:13	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	44272	No
309	GOM_NL__2PRFIN20100818_225951_000000392092_00130_44272_6631.N1	18-AUG-2010 22:59:51	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	44272	No
310	GOM_NL__2PRFIN20100818_230125_000000372092_00130_44272_6632.N1	18-AUG-2010 23:01:25	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	44272	No
311	GOM_NL__2PRFIN20100818_230644_000000402092_00130_44272_6633.N1	18-AUG-2010 23:06:44	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	44272	No
312	GOM_NL__2PRFIN20100818_231114_000000312092_00130_44272_6634.N1	18-AUG-2010 23:11:14	Twilight_stray	31.000	74	11Bet Cas	2.2680	6600.0	62	44272	No
313	GOM_NL__2PRFIN20100818_232627_000000492092_00130_44272_6635.N1	18-AUG-2010 23:26:27	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	44272	No
314	GOM_NL__2PRFIN20100818_232926_000000432092_00130_44272_6636.N1	18-AUG-2010 23:29:26	Bright	42.500	107	37The Aur	2.6490	11000.	85	44272	No
315	GOM_NL__2PRFIN20100818_233237_000000542092_00130_44272_6637.N1	18-AUG-2010 23:32:37	Twilight_stray	53.500	28	12Bet Tau	1.6500	15200.	107	44272	No
316	GOM_NL__2PRFIN20100818_233528_000000432092_00130_44272_6638.N1	18-AUG-2010 23:35:28	Twilight_stray	42.500	44	24Gam Gem	1.9280	11000.	85	44272	No
317	GOM_NL__2PRFIN20100818_233906_000000602092_00130_44272_6639.N1	18-AUG-2010 23:39:06	Dark	59.500	14	58Alp Ori	0.87000	3000.0	119	44272	No
318	GOM_NL__2PRFIN20100818_234224_000000502092_00130_44272_6640.N1	18-AUG-2010 23:42:24	Dark	49.500	30	46Eps Ori	1.6940	30000.	99	44272	No
319	GOM_NL__2PRFIN20100818_234350_000000472092_00130_44272_6641.N1	18-AUG-2010 23:43:50	Dark	46.500	125	44lot Ori	2.7700	30000.	93	44272	No
320	GOM_NL__2PRFIN20100818_234531_000000672092_00130_44272_6642.N1	18-AUG-2010 23:45:31	Dark	67.000	7	19Bet Ori	0.10000	14000.	134	44272	No
321	GOM_NL__2PRFIN20100818_234718_000000452092_00130_44272_6643.N1	18-AUG-2010 23:47:18	Dark	45.000	101	11Alp Lep	2.5820	7000.0	90	44272	No

3. Quality information per product

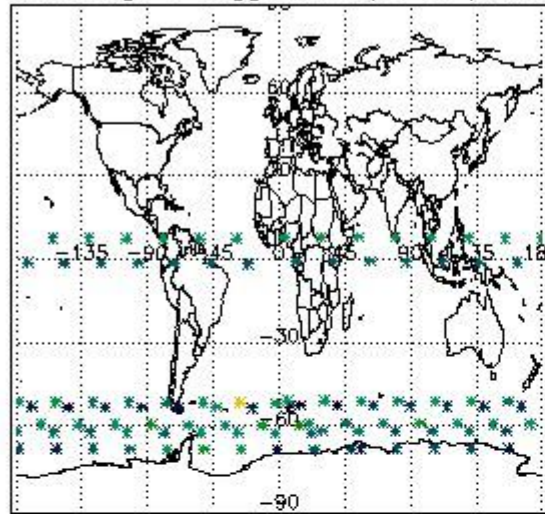
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

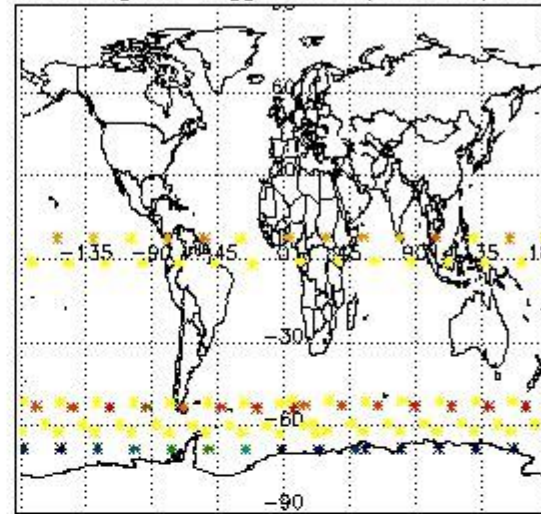


3.2 Plot quality information per product (world map)

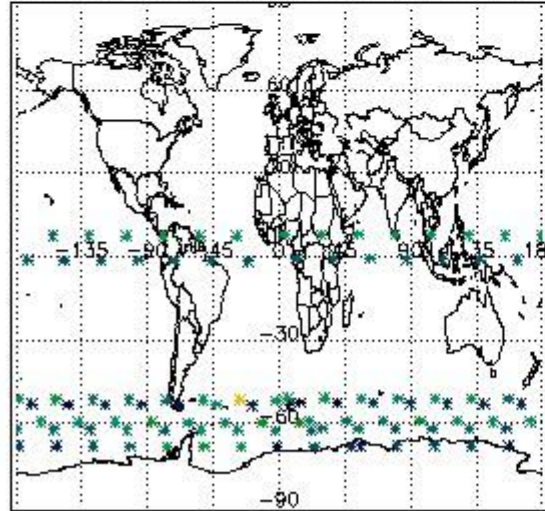
Percentage of flagged data per O3 profile



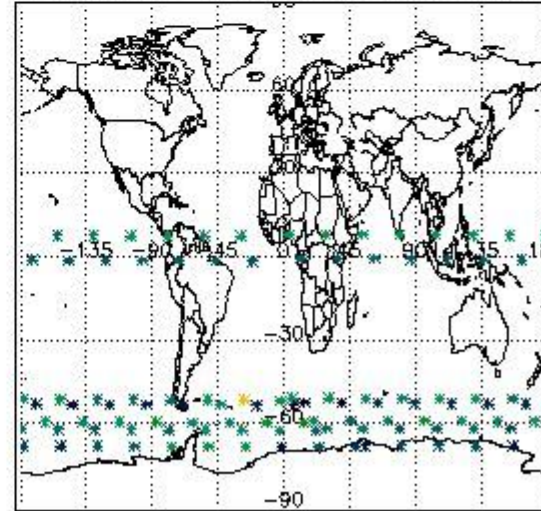
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

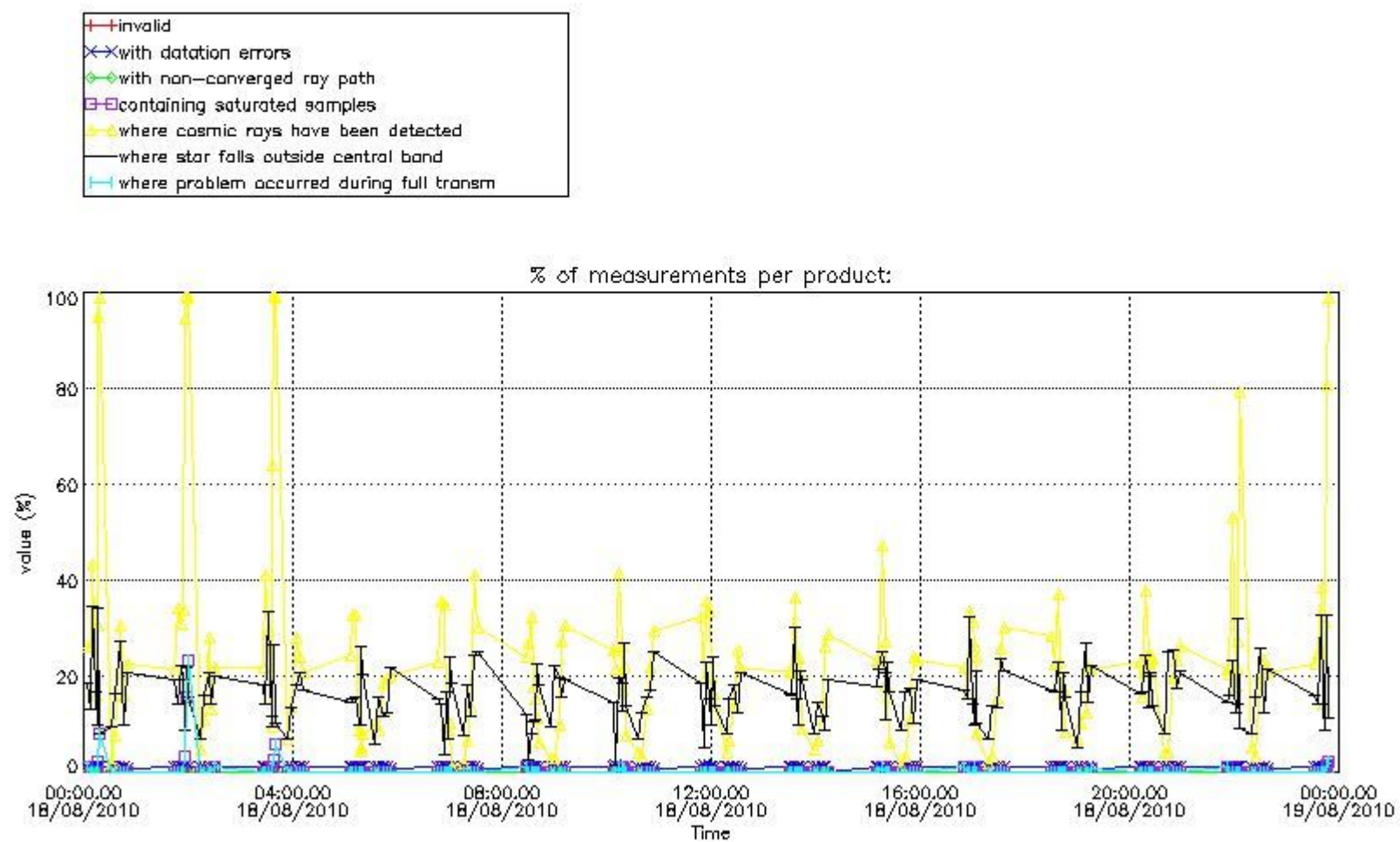


4. Level 1 quality information per product

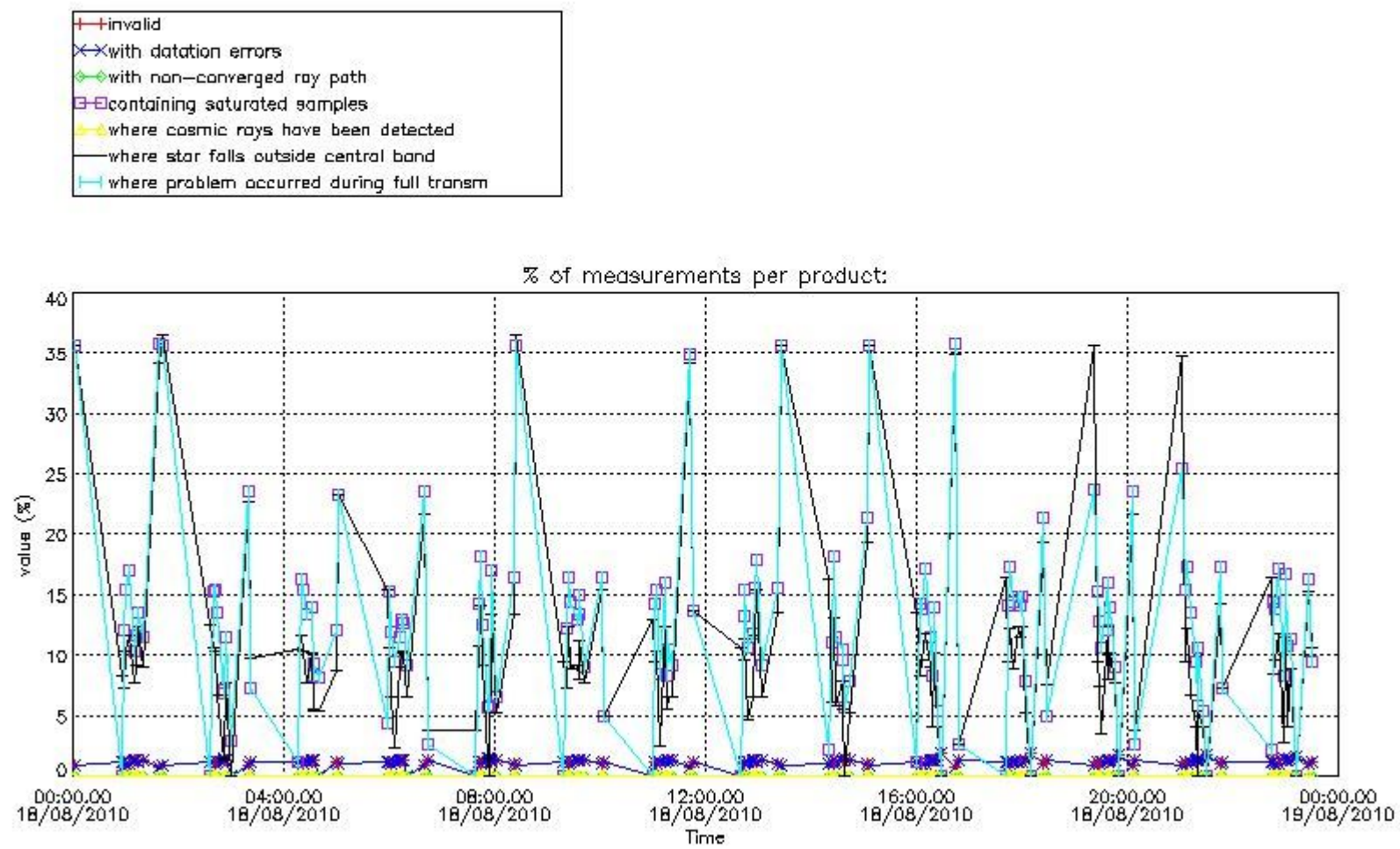
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



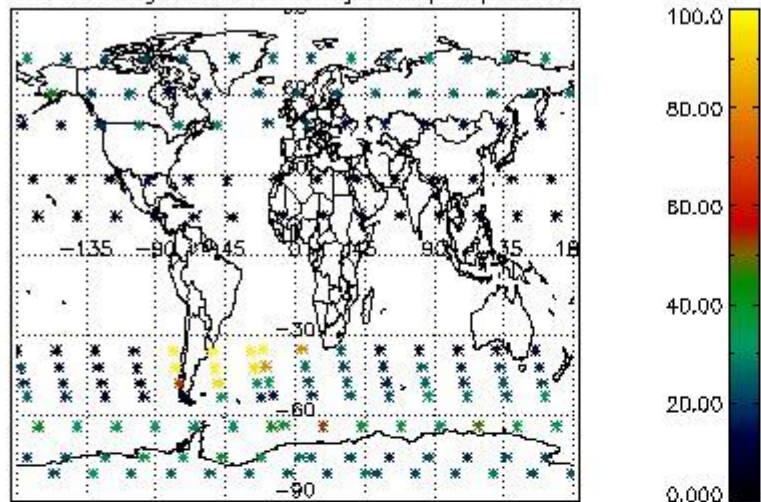
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



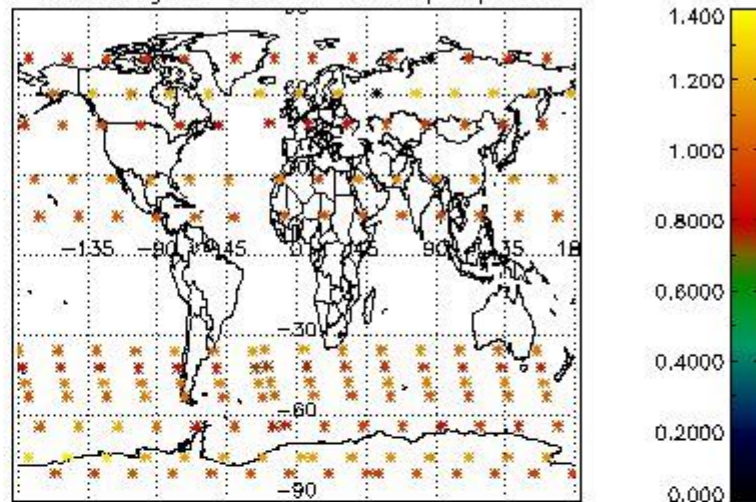
4.2 Plot quality information per product coming from level 1b processing (world map)

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

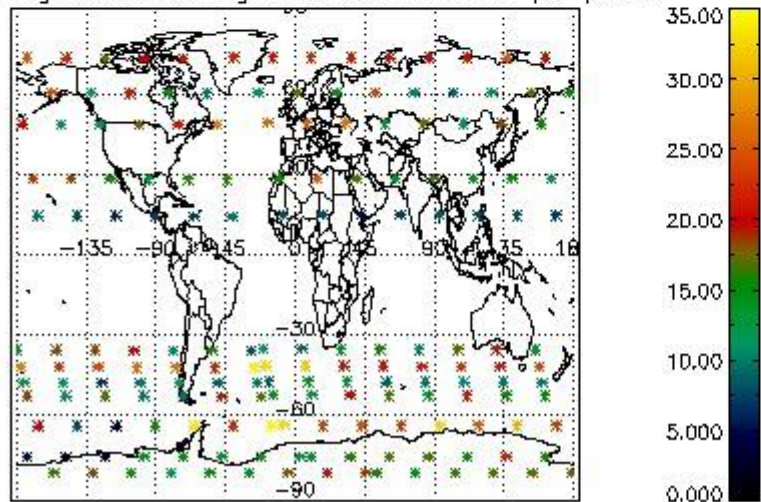
Percentage of cosmic ray hits per profile



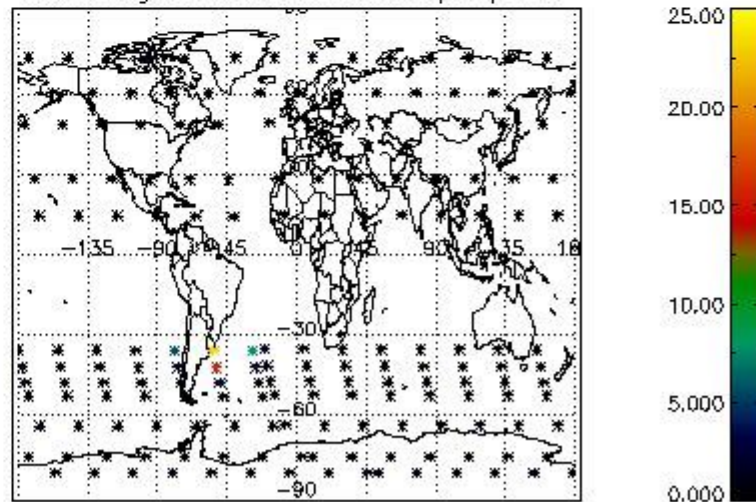
Percentage of datation errors per profile



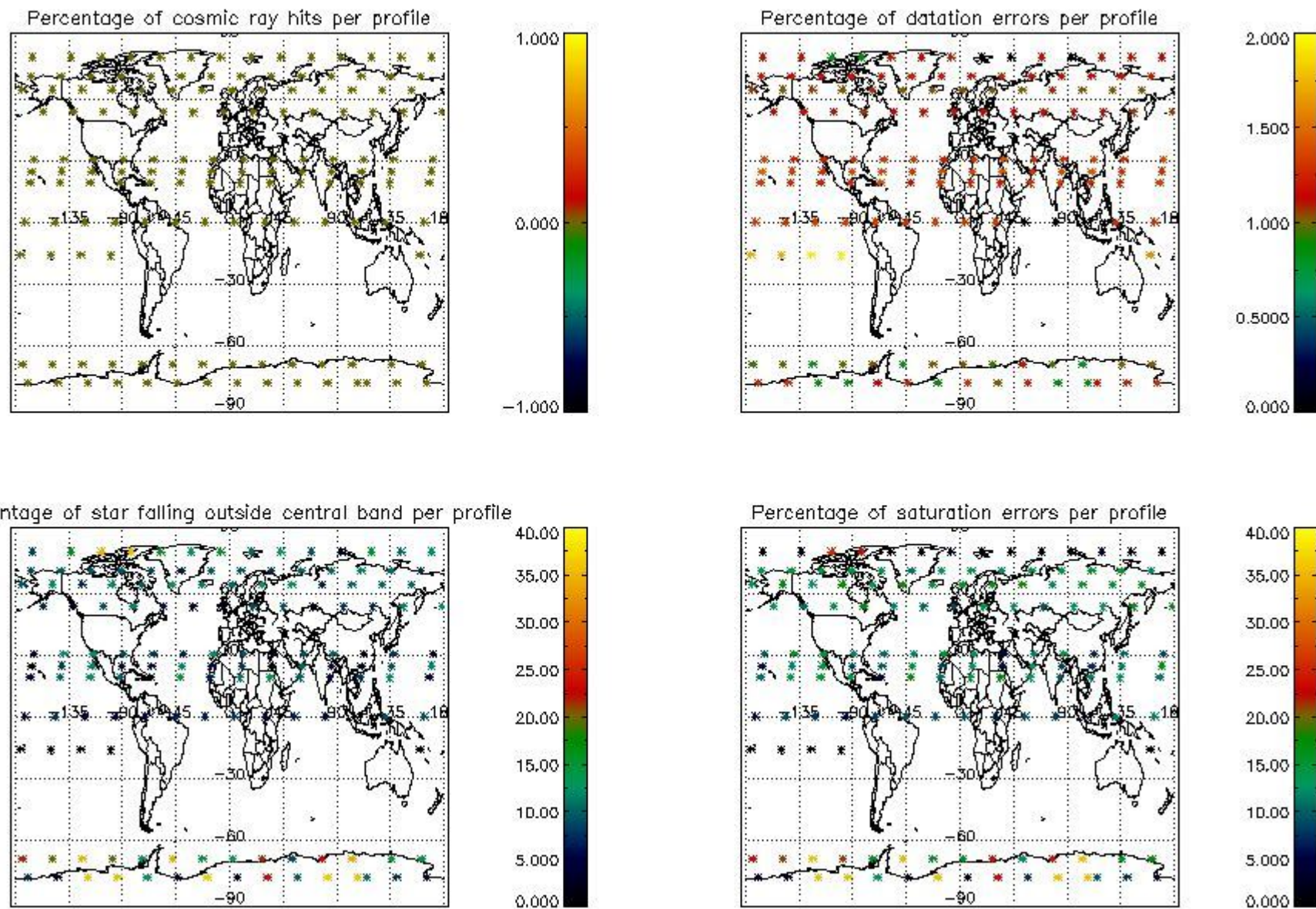
Percentage of star falling outside central band per profile



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

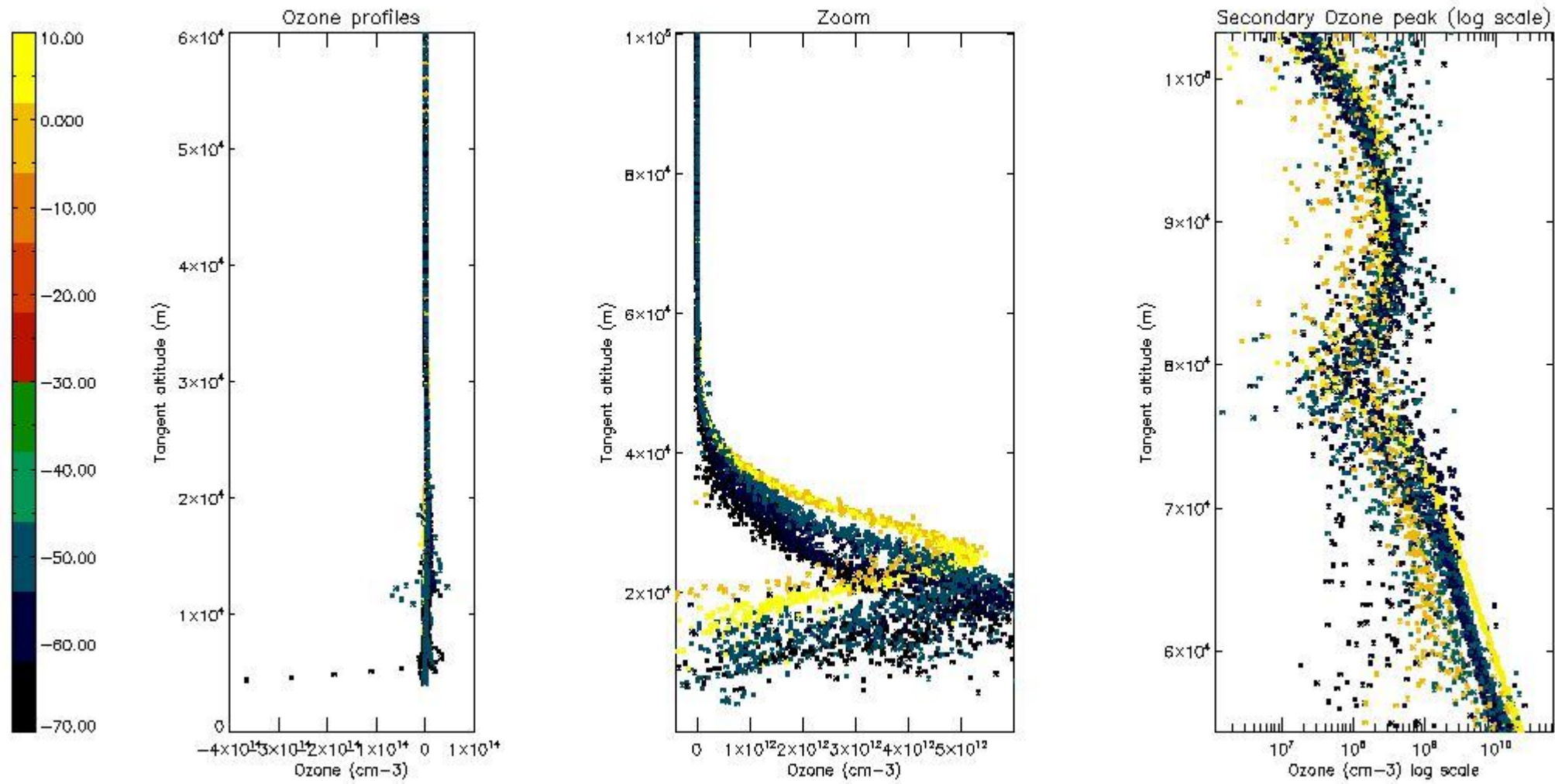
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

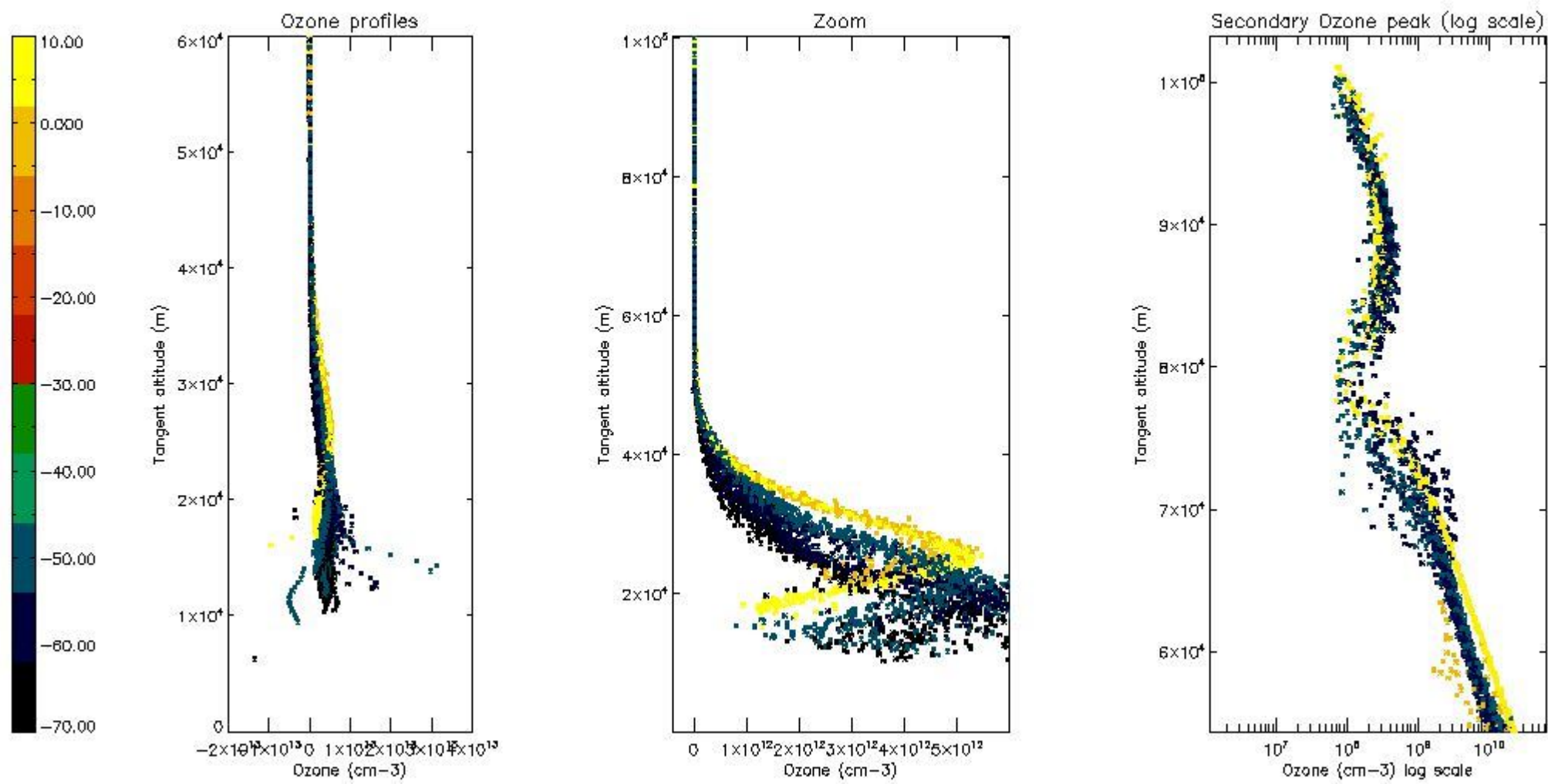
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



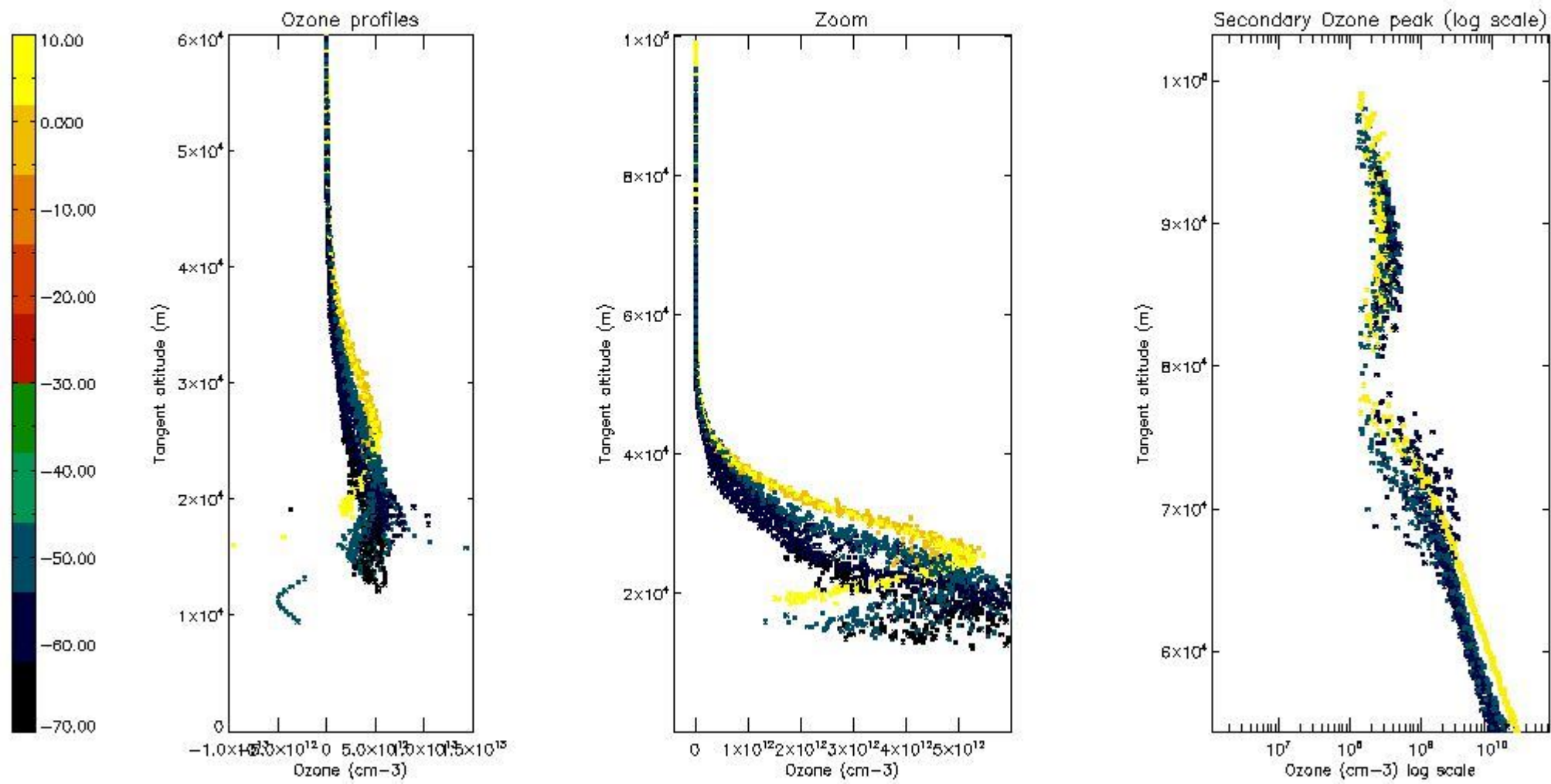
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



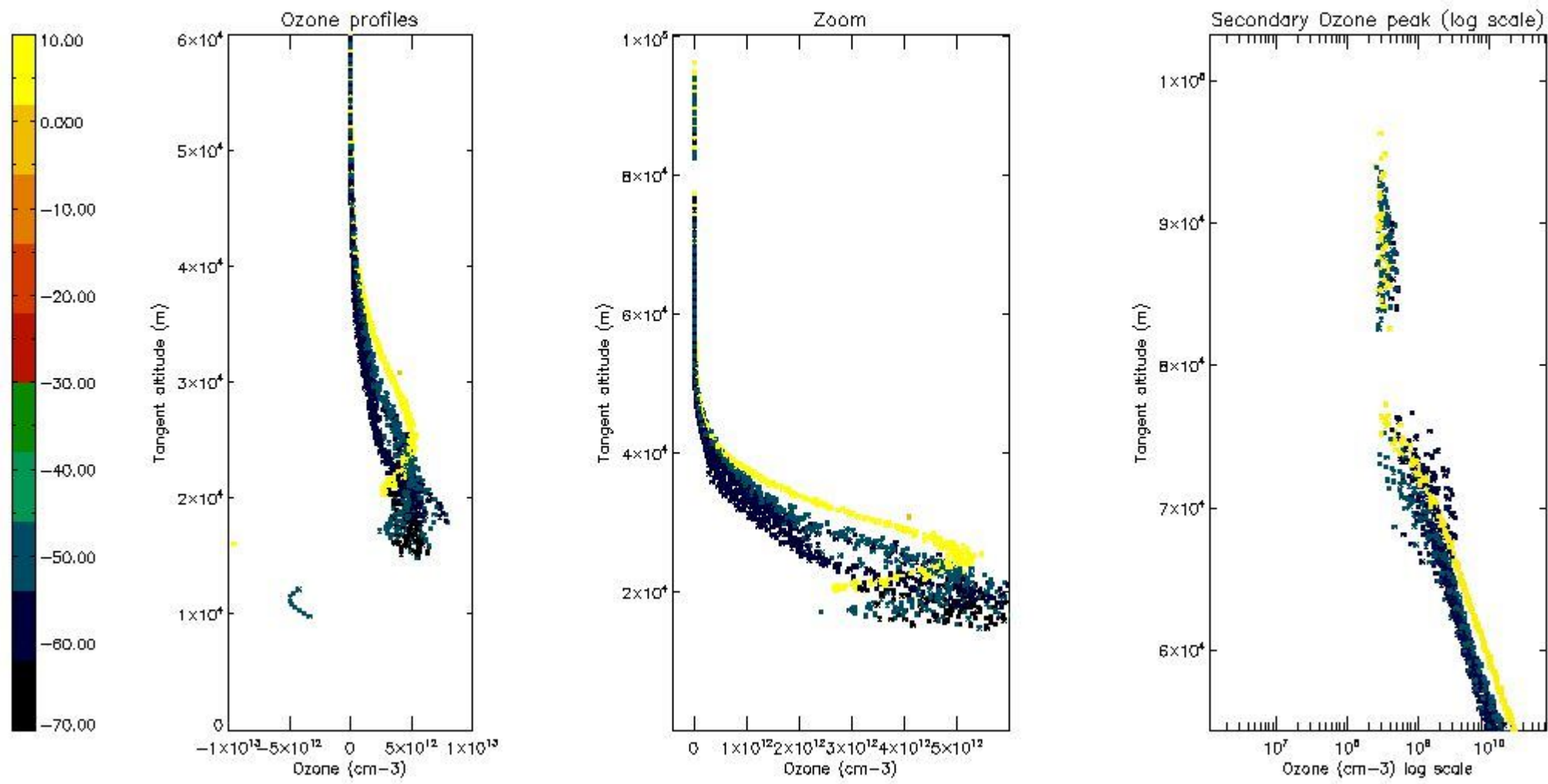
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



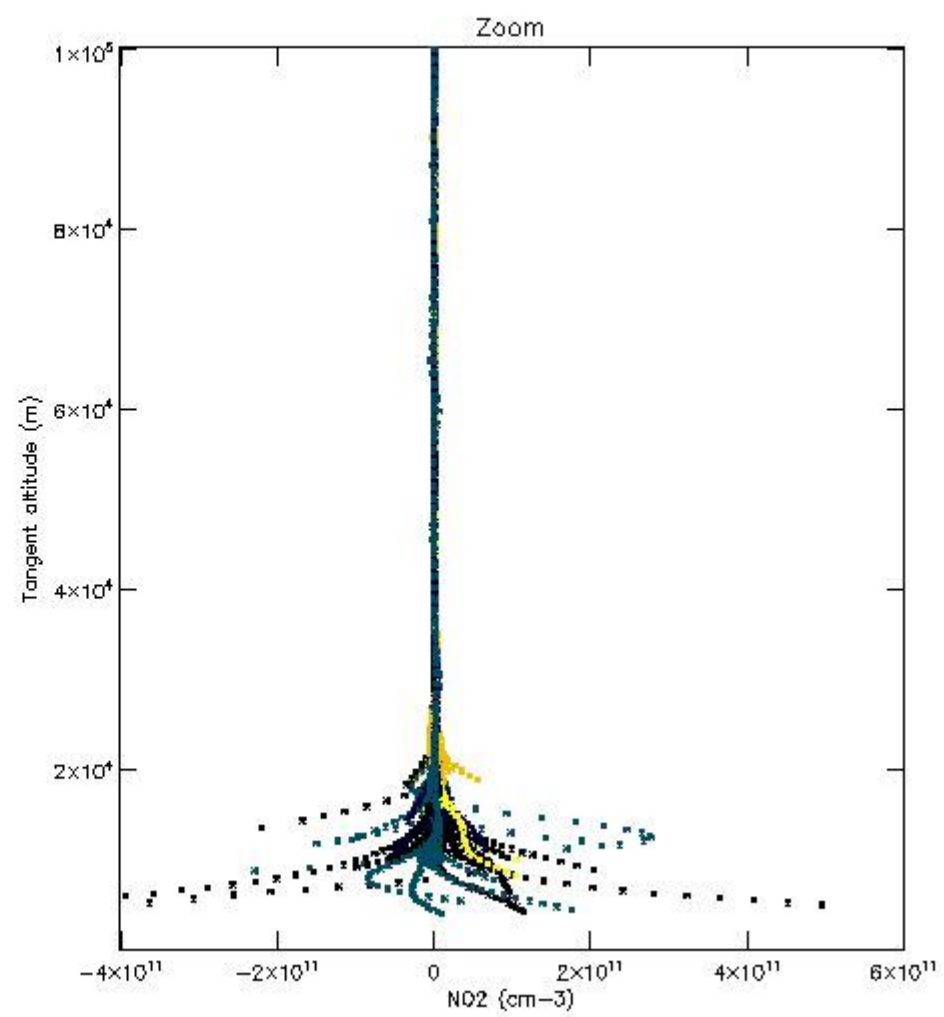
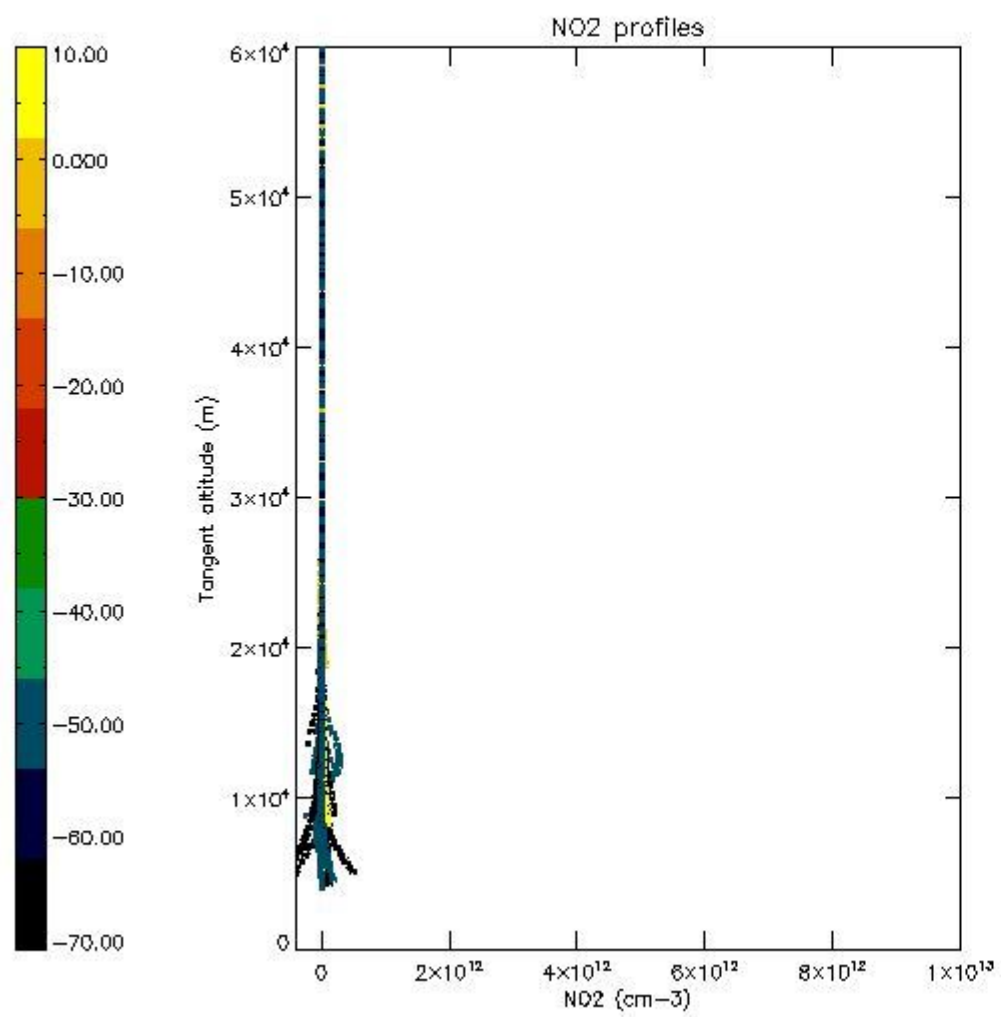
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



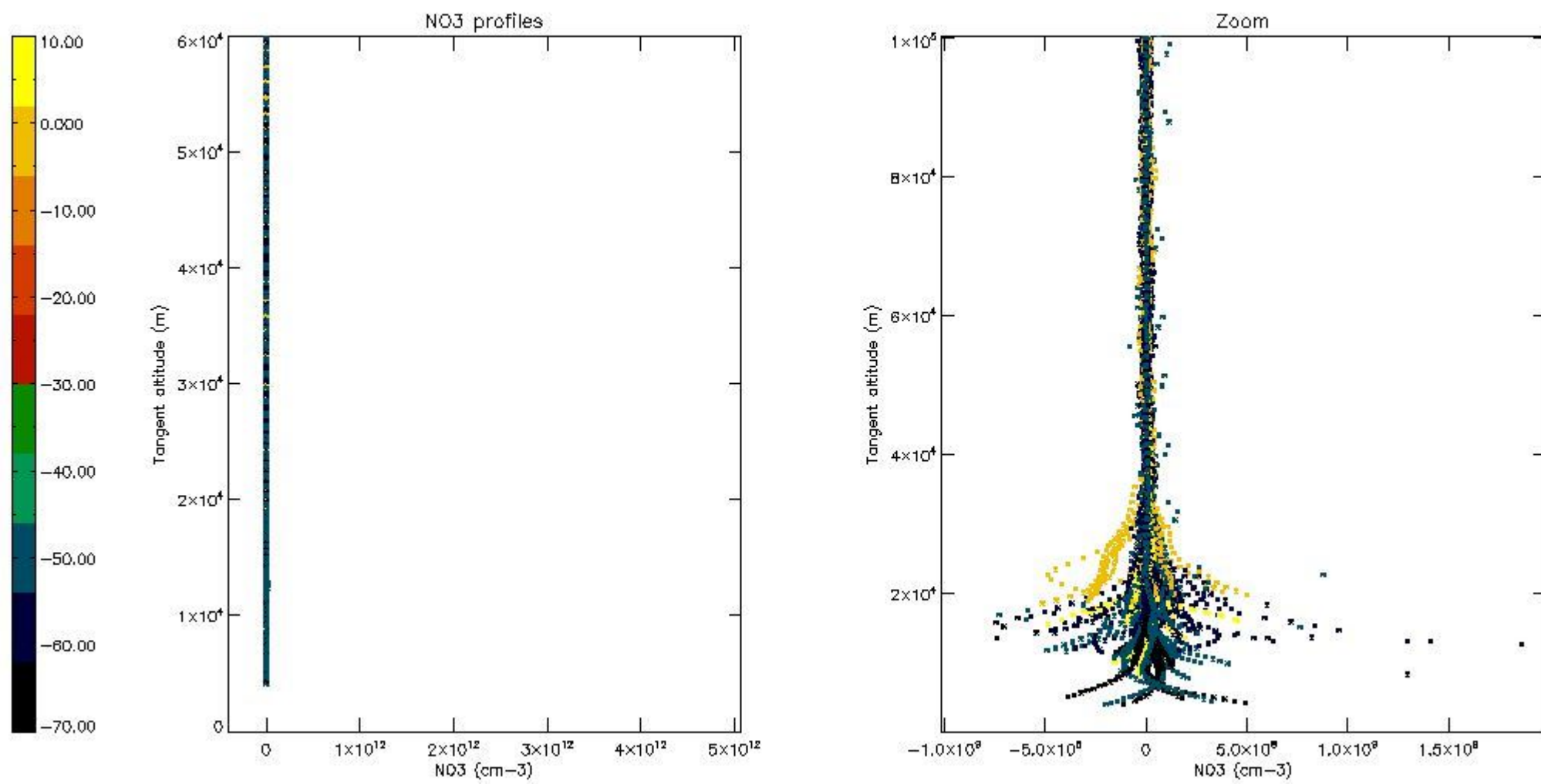
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



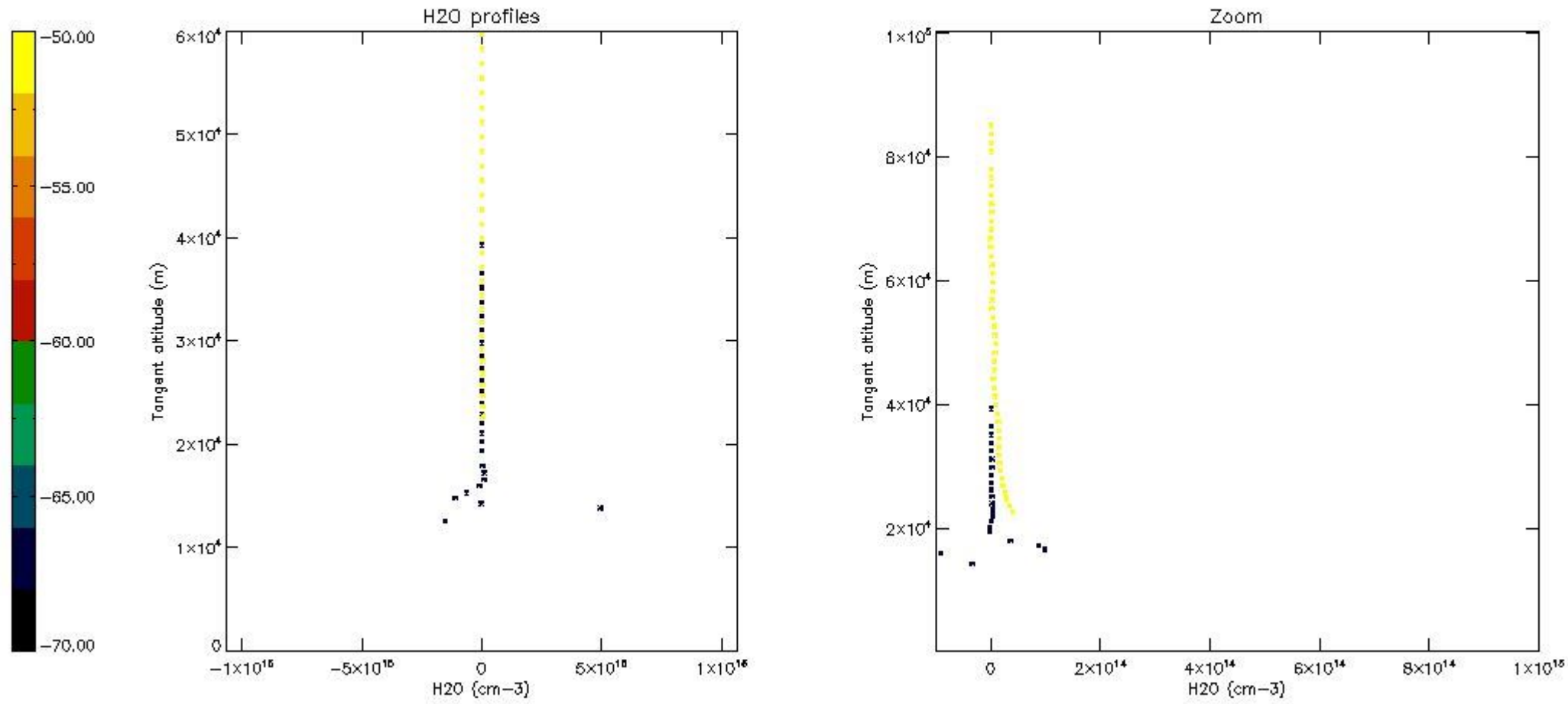
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-AUG-2010 00:01:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-AUG-2010 00:01:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-AUG-2010 00:01:02

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

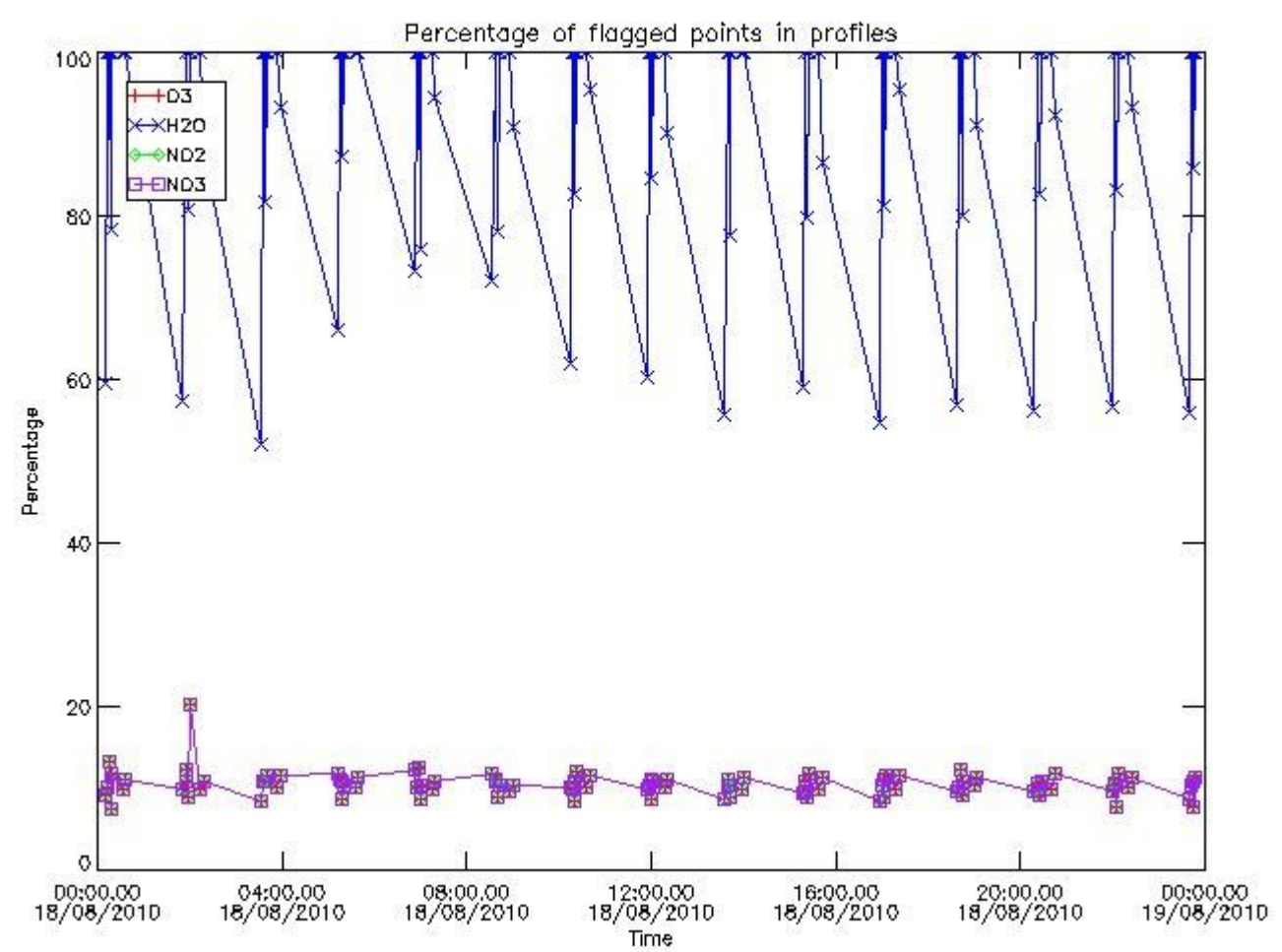
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

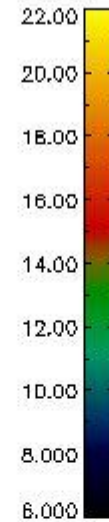
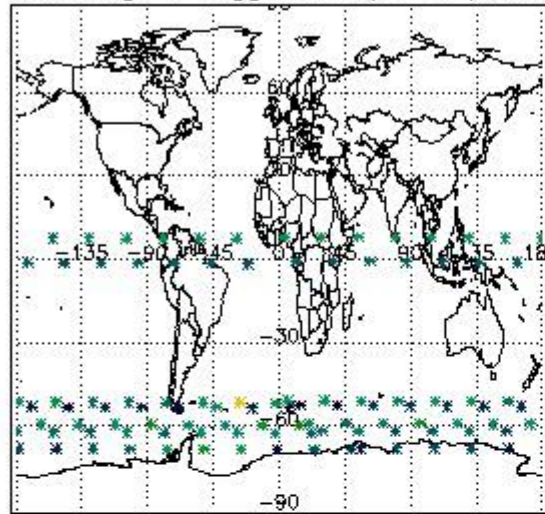
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

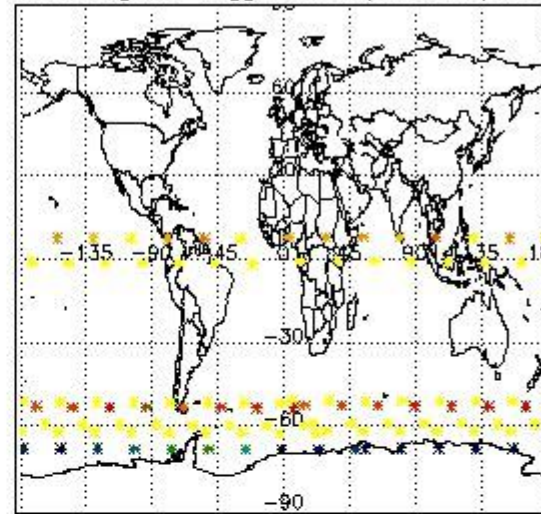


3.2 Plot quality information per product (world map)

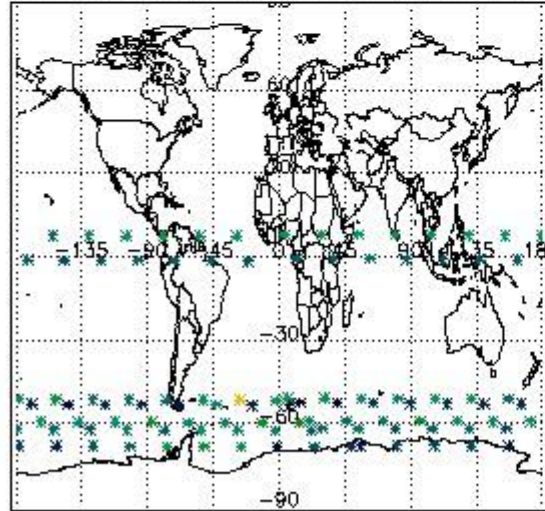
Percentage of flagged data per O3 profile



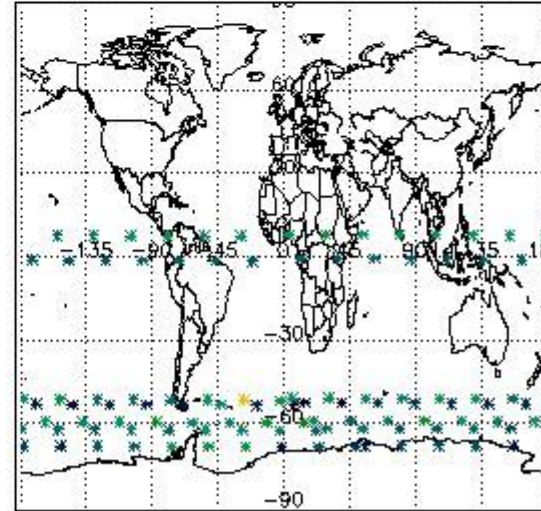
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

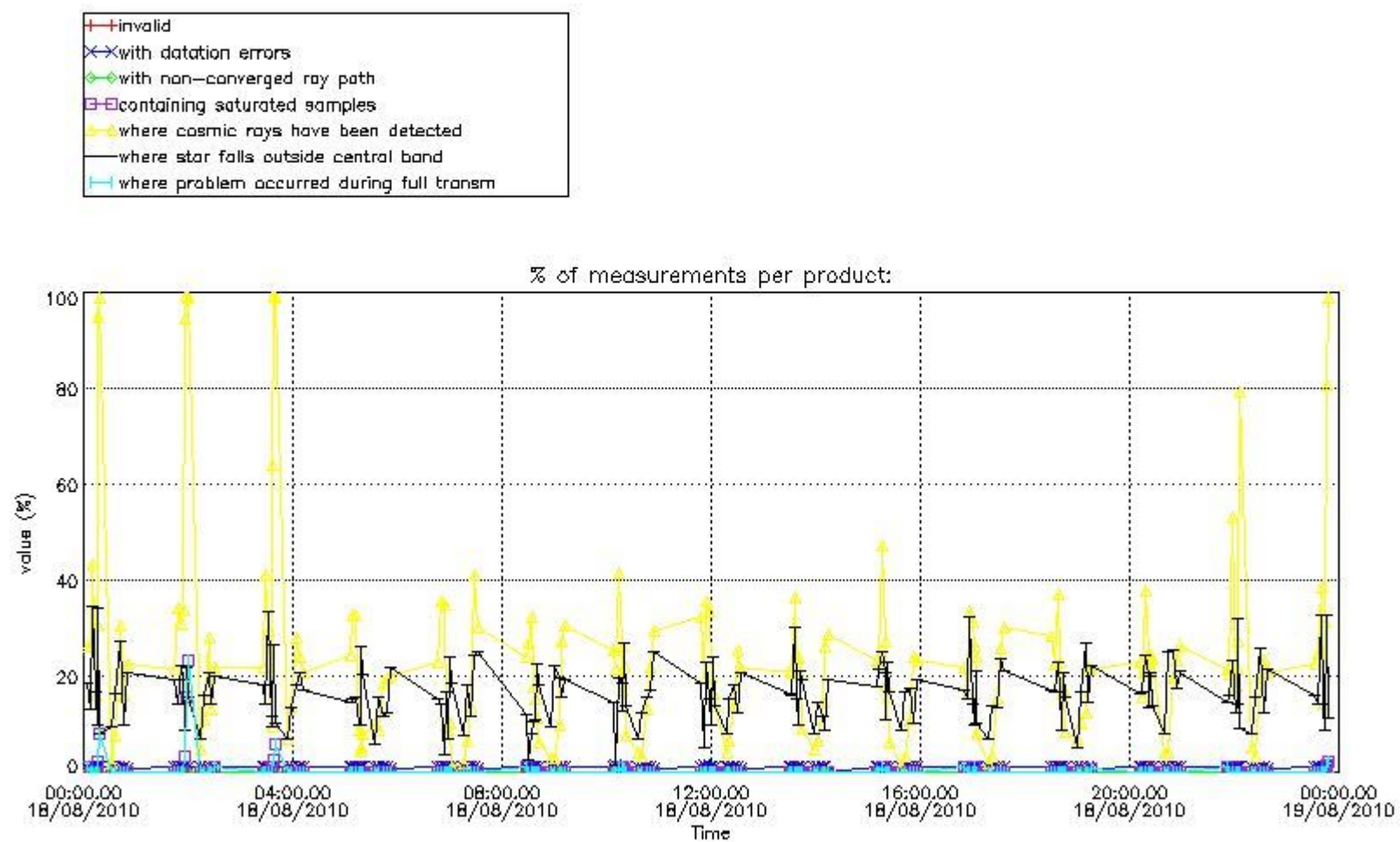


4. Level 1 quality information per product

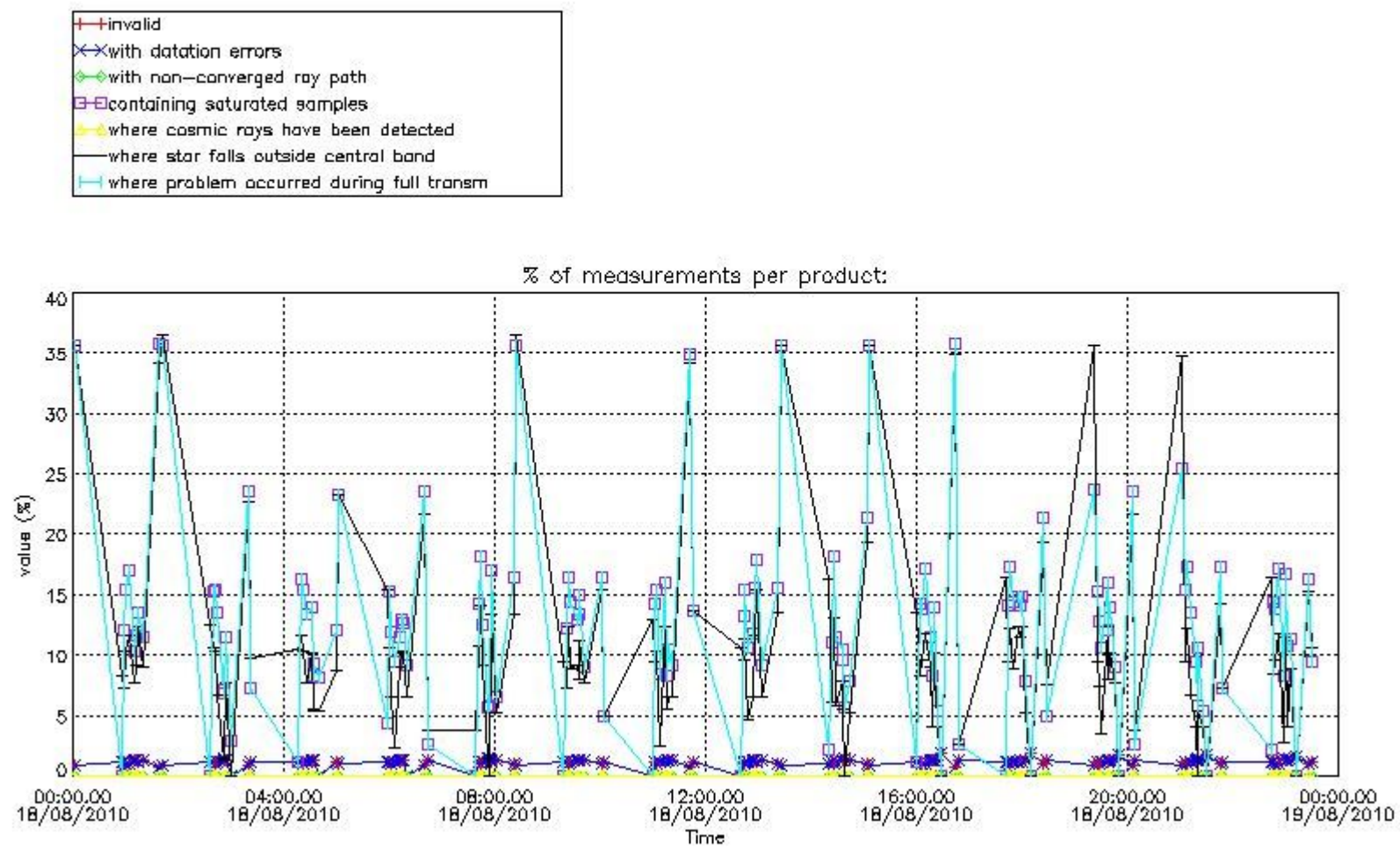
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



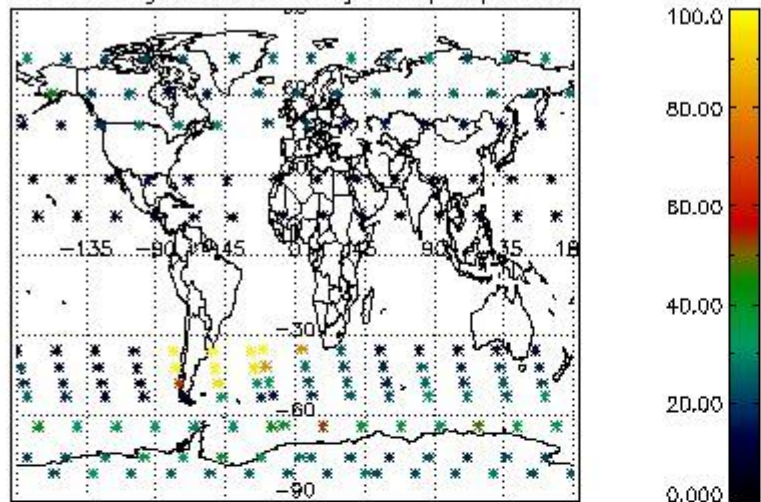
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



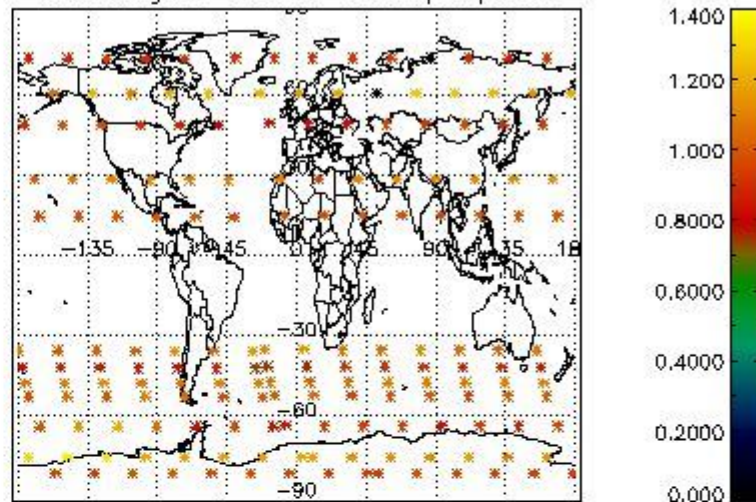
4.2 Plot quality information per product coming from level 1b processing (world map)

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

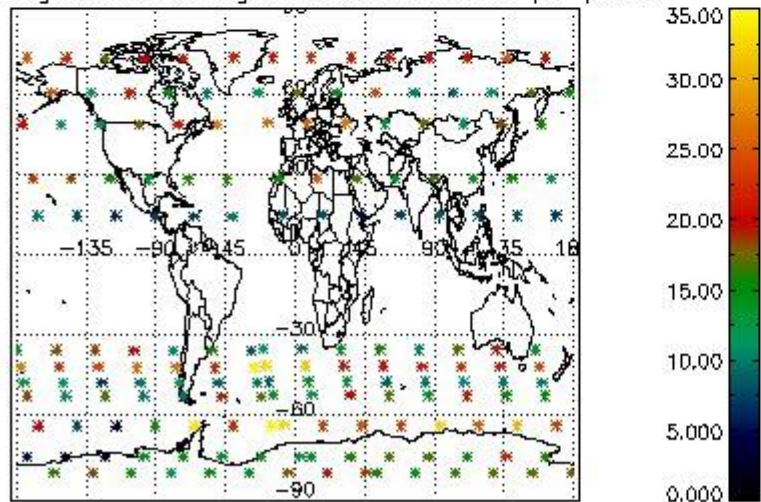
Percentage of cosmic ray hits per profile



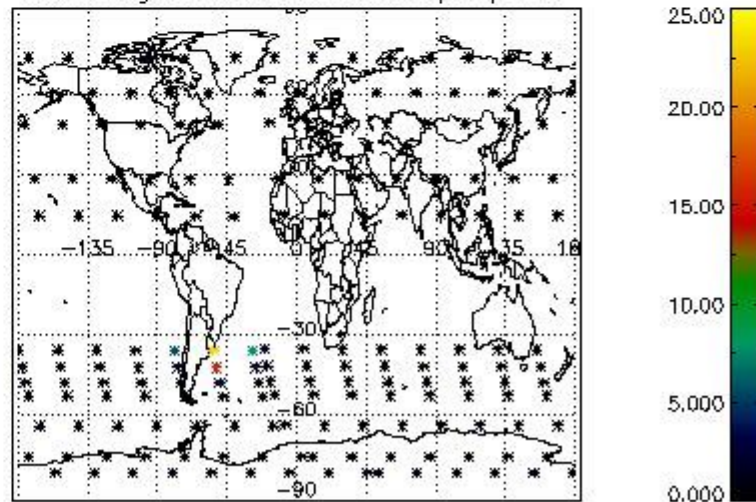
Percentage of datation errors per profile



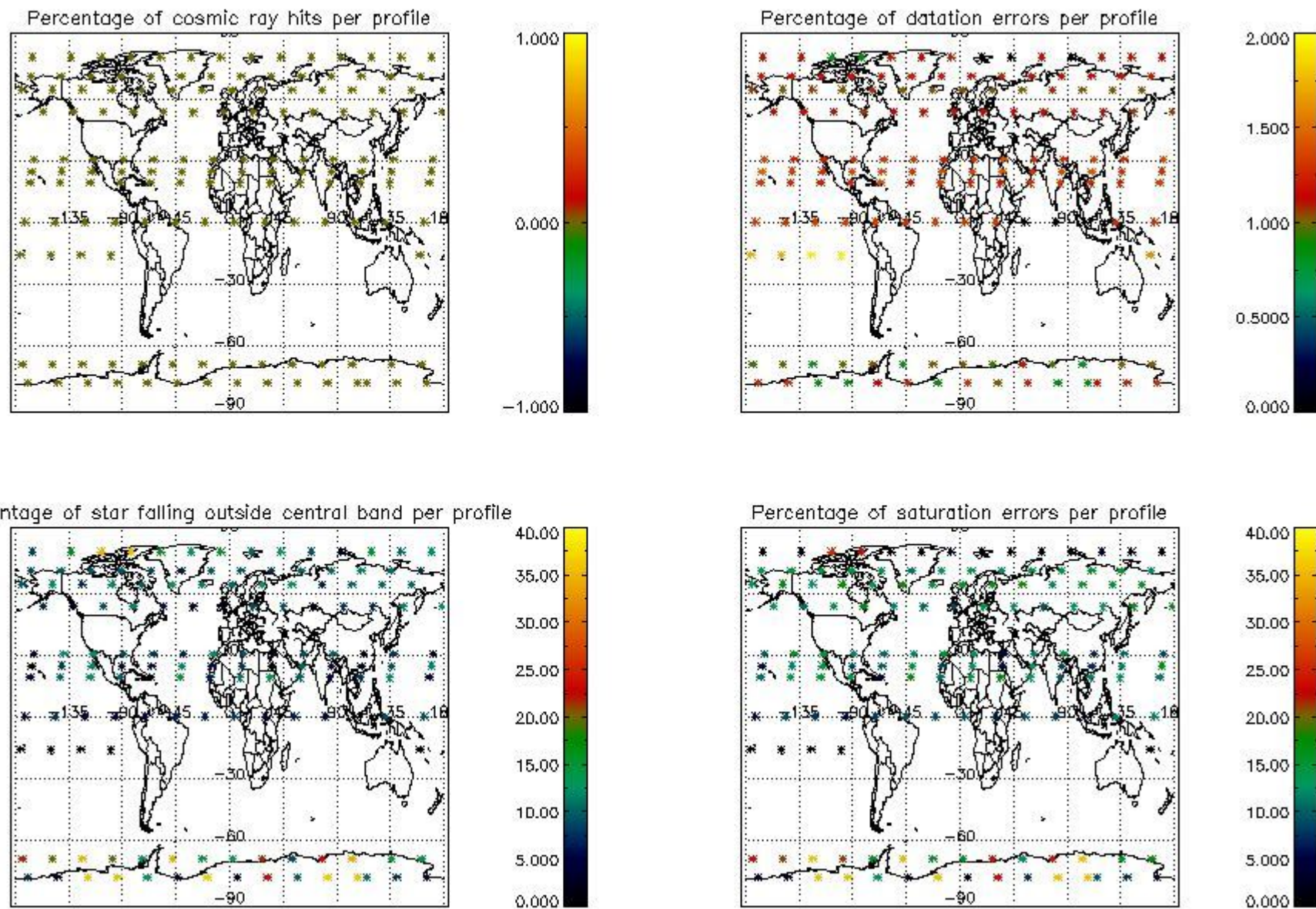
Percentage of star falling outside central band per profile



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

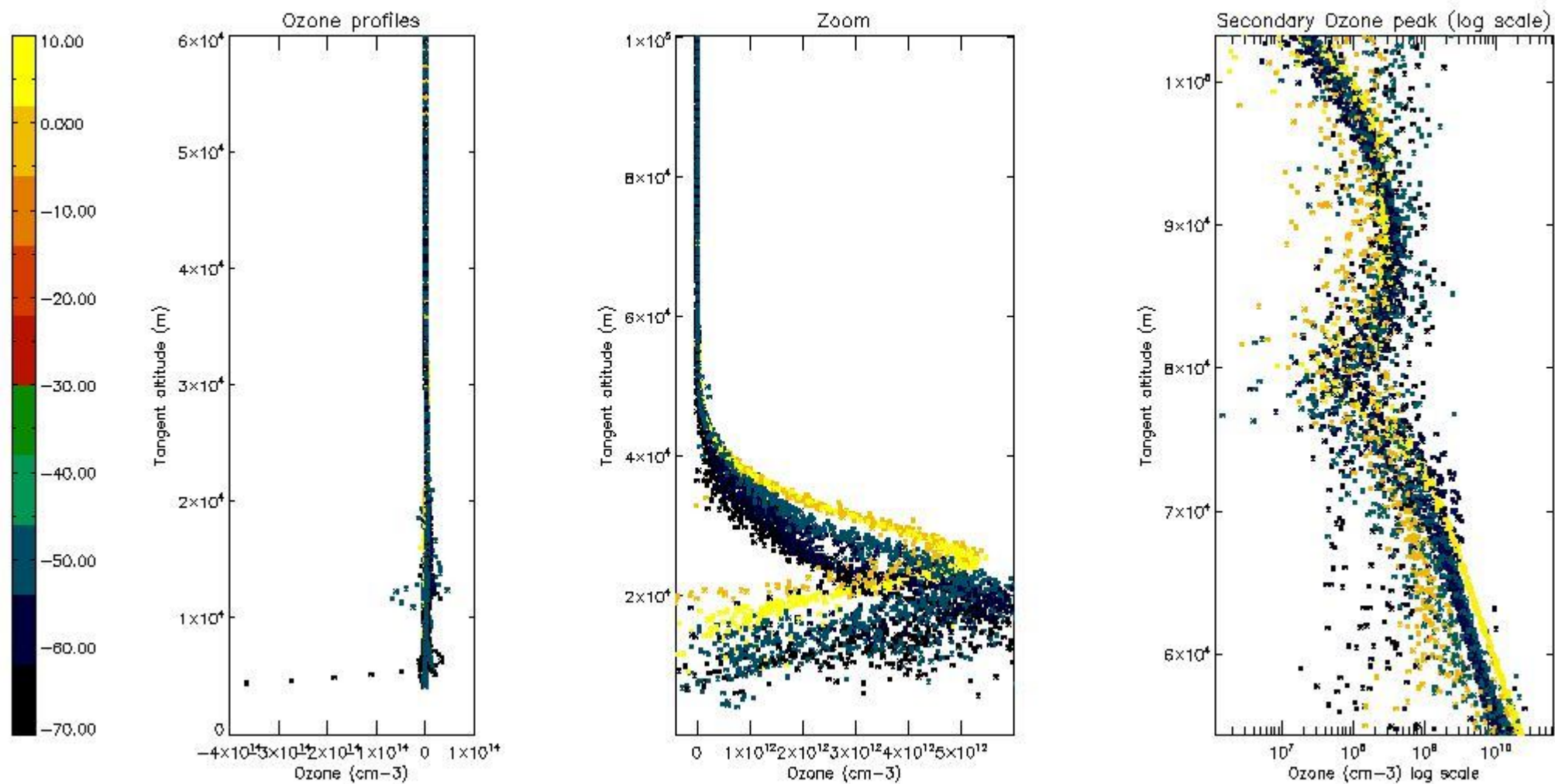
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

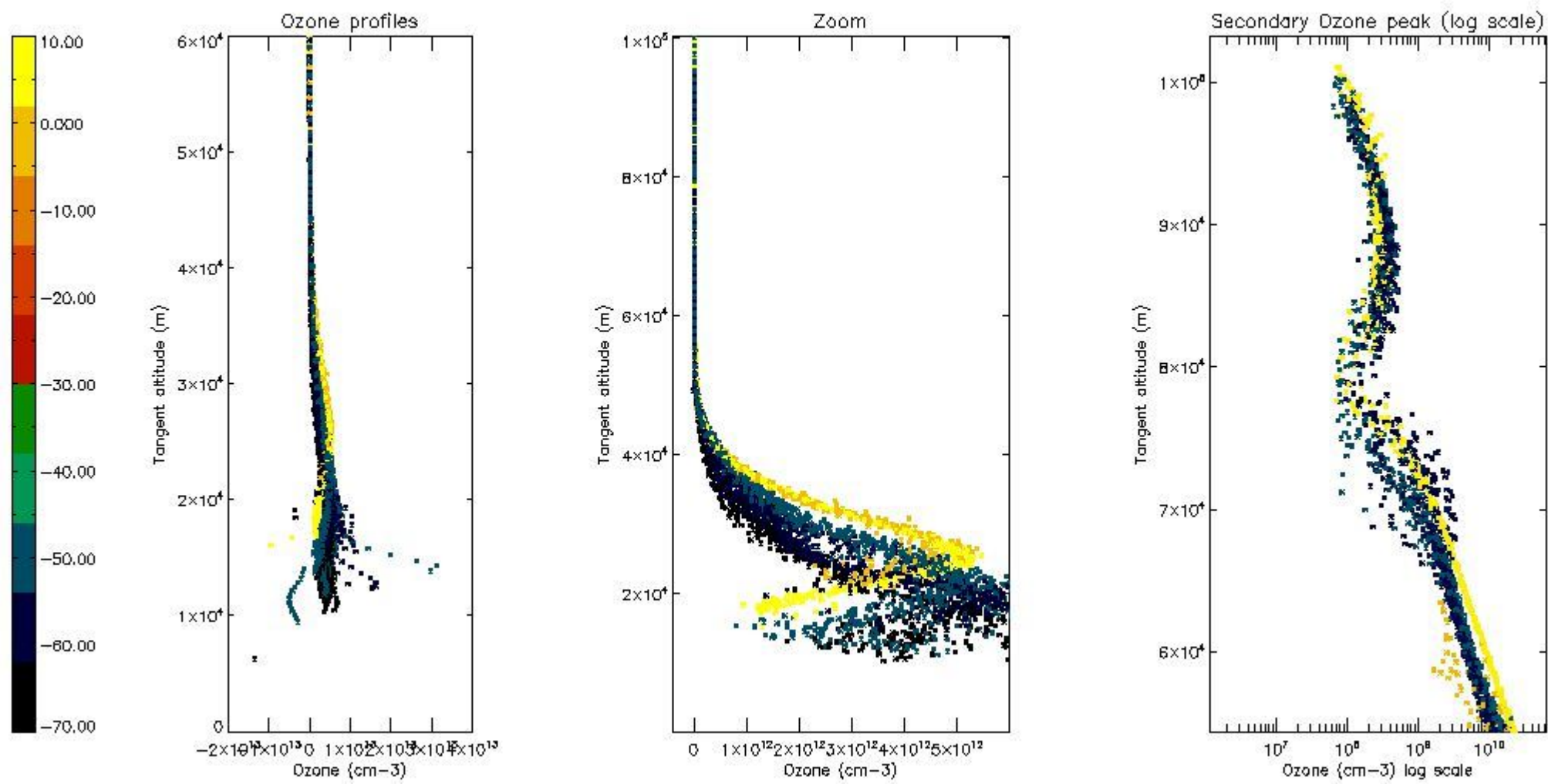
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



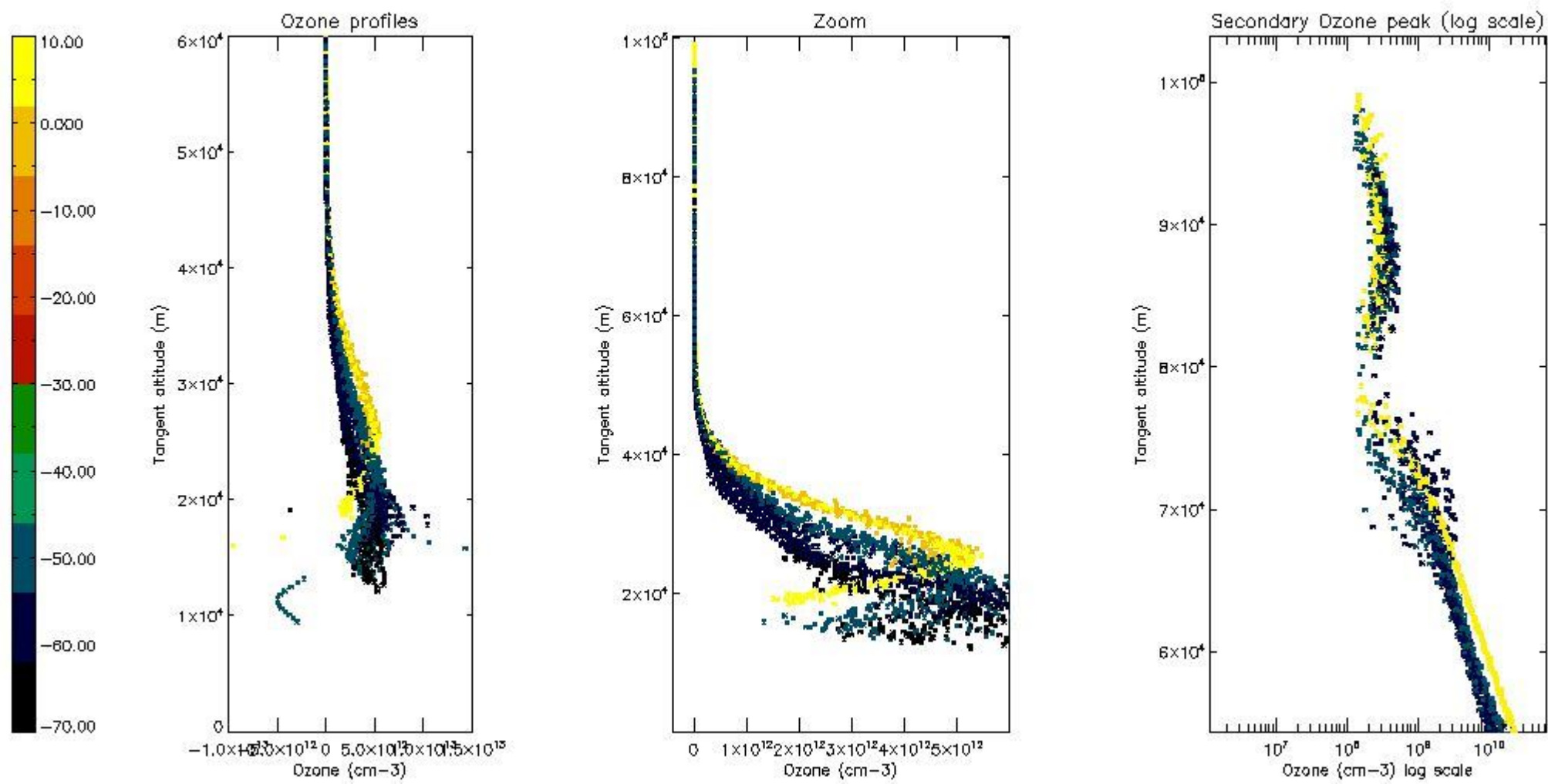
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



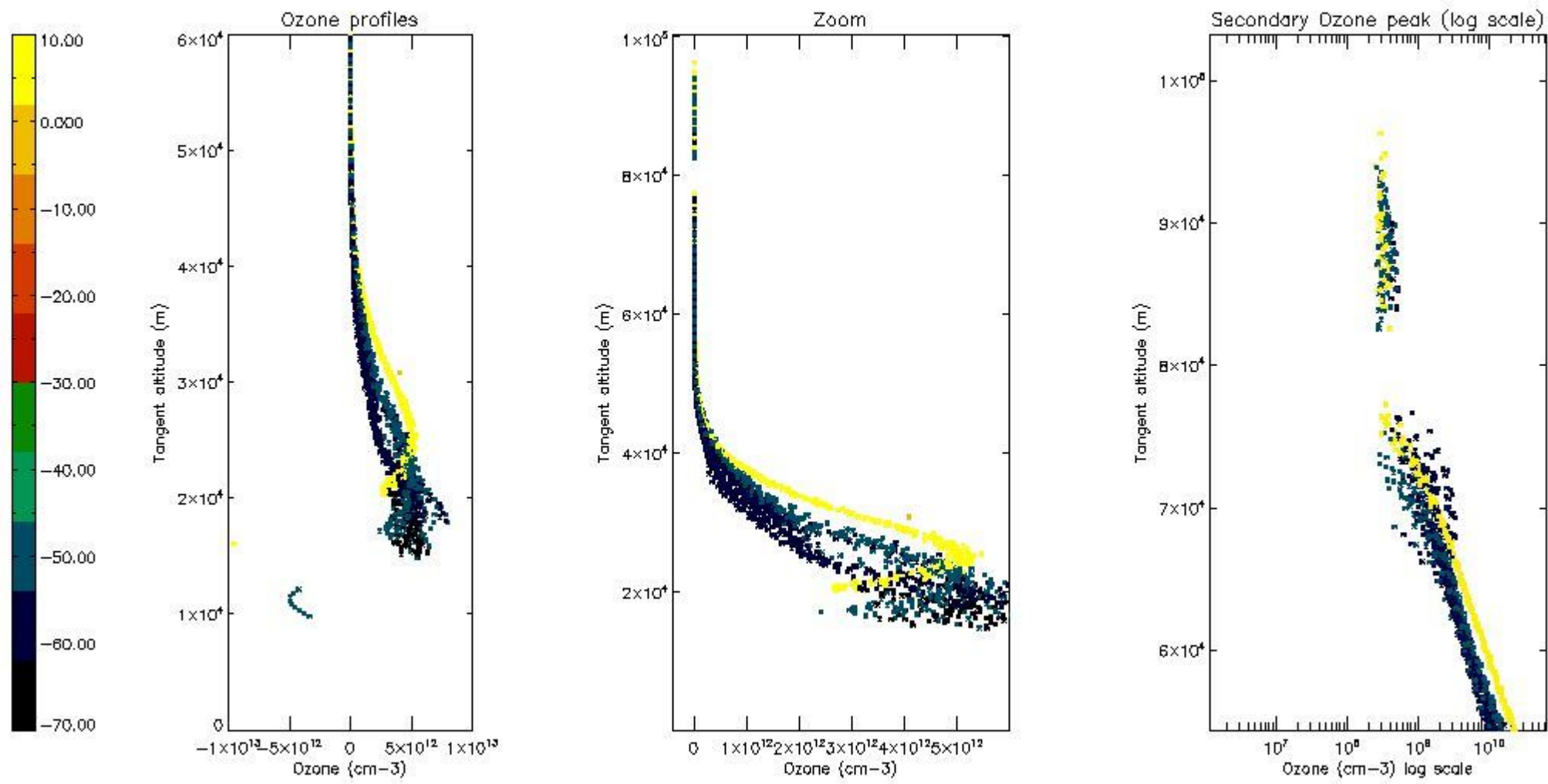
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



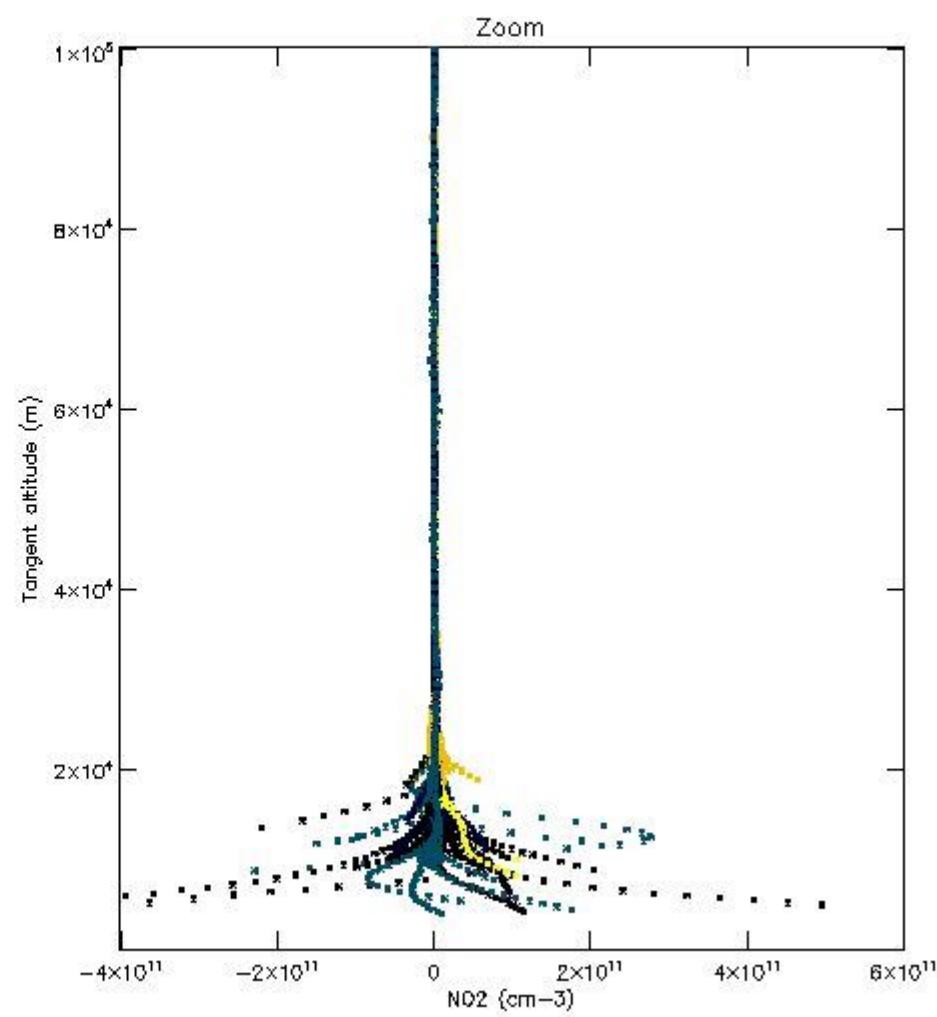
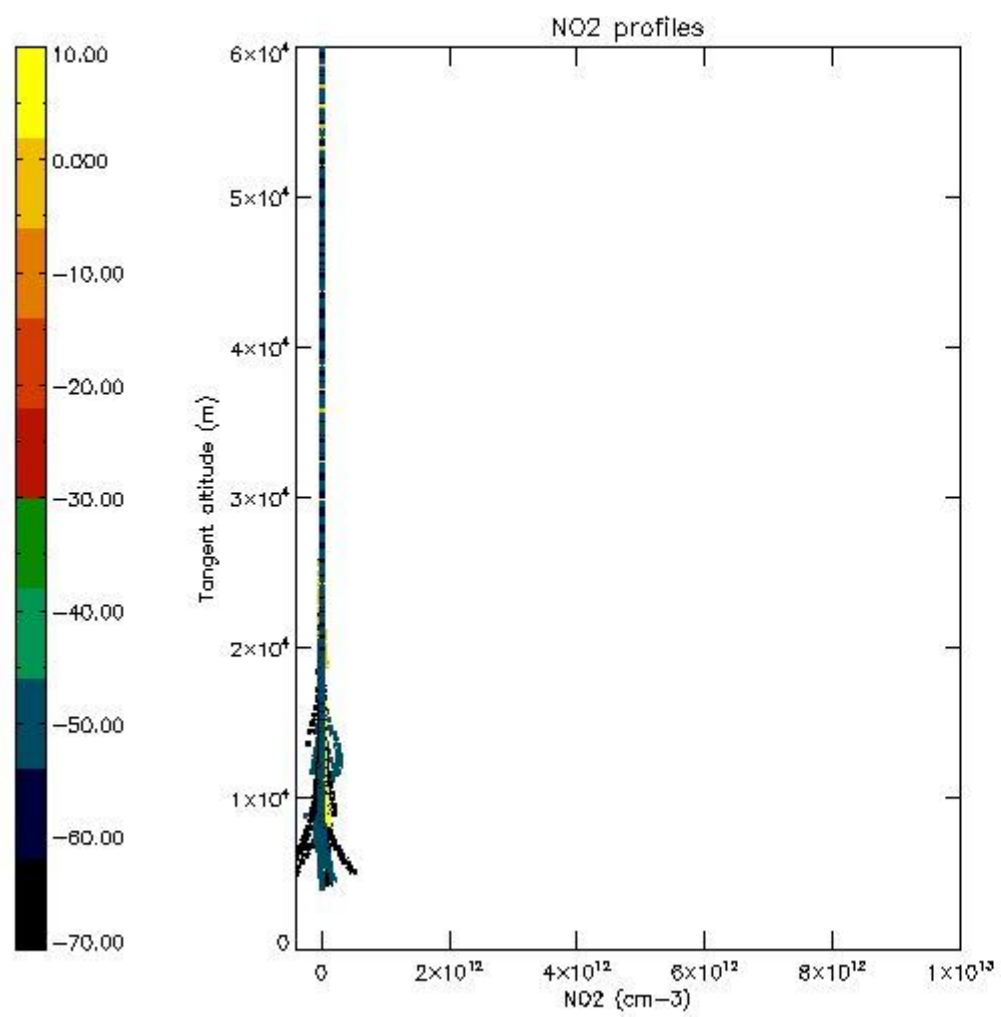
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



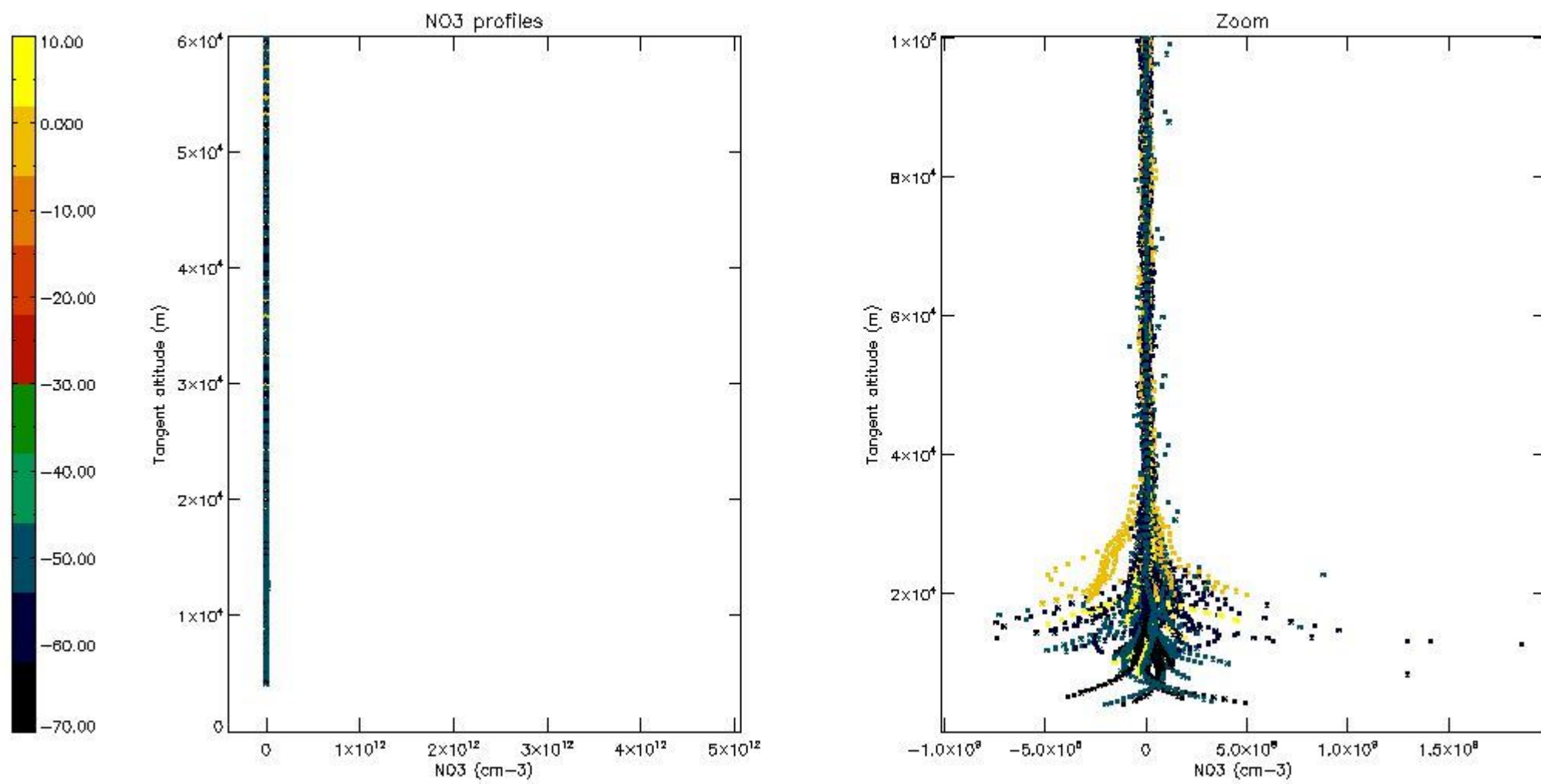
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



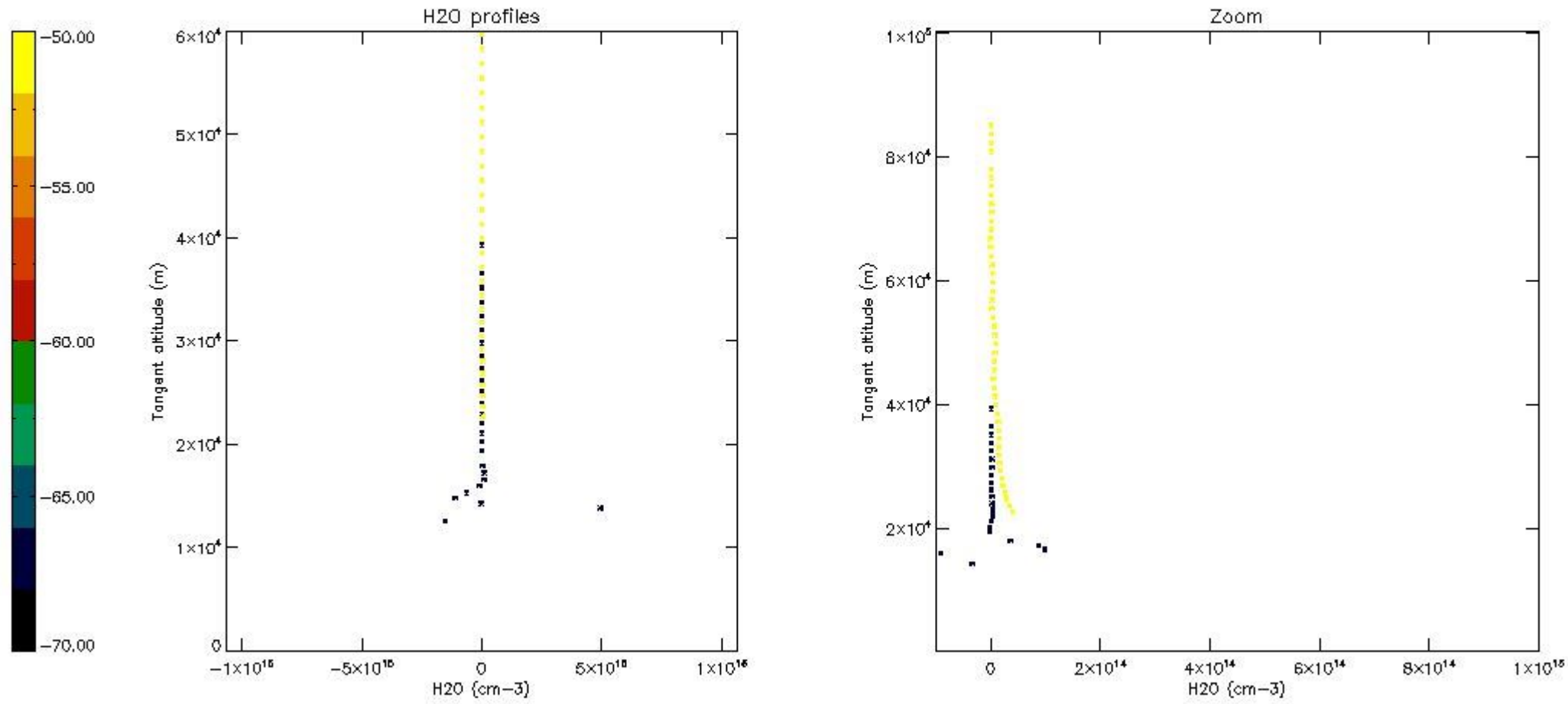
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

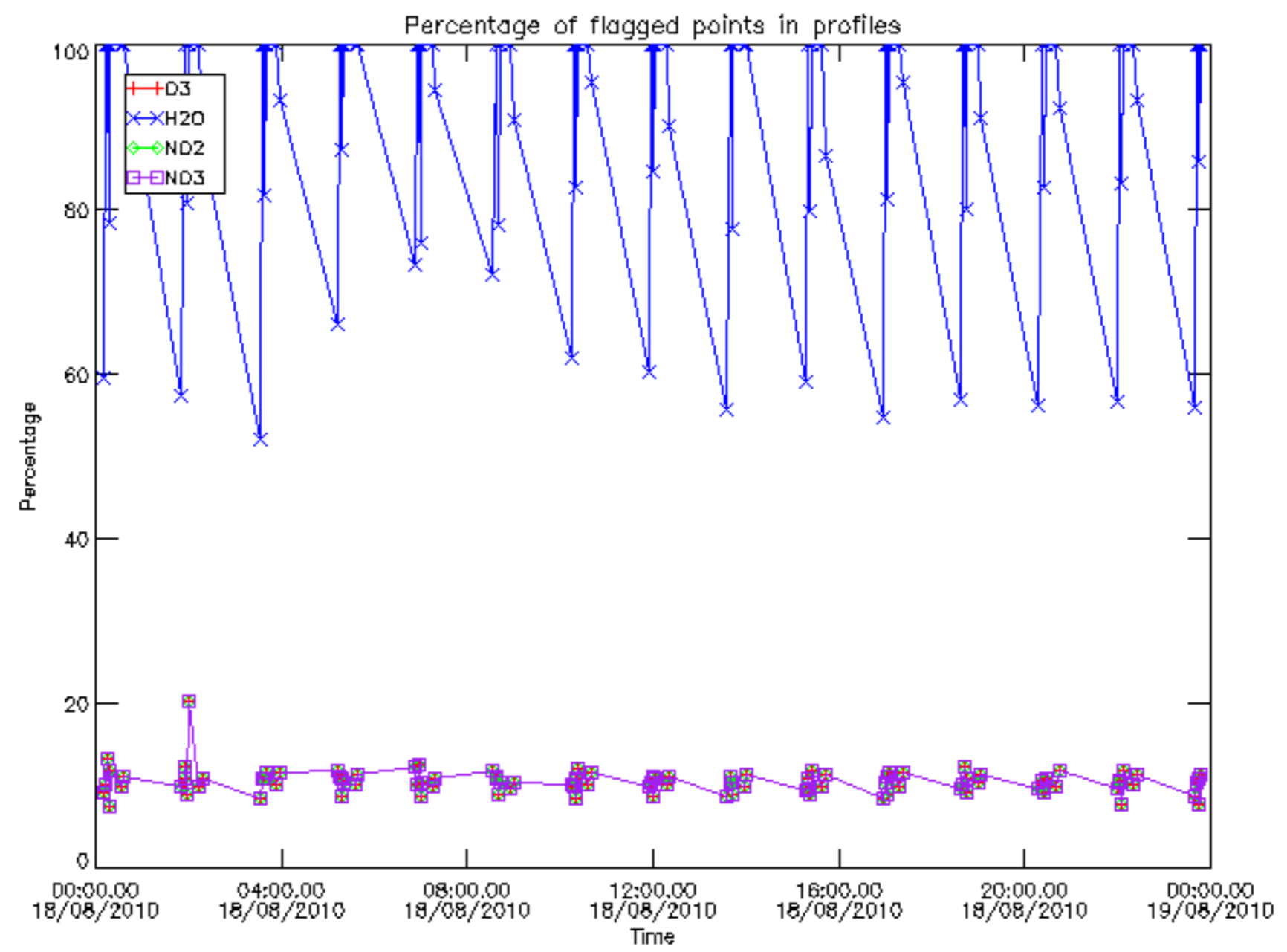
The colorbar represents the latitude.



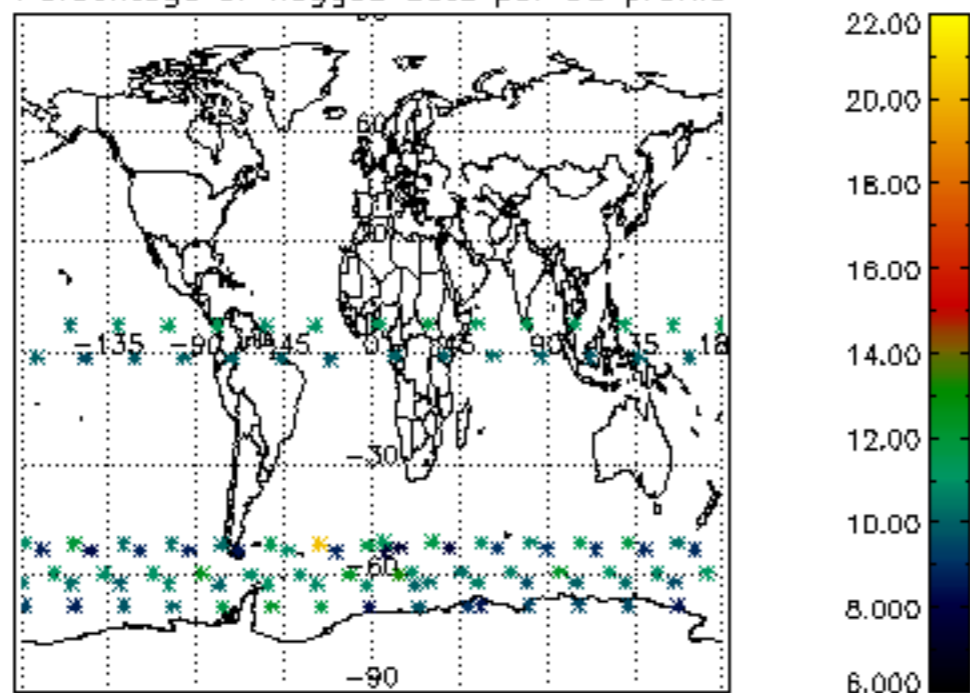
6. Auxiliary Data Files used for the production reported in section 2

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

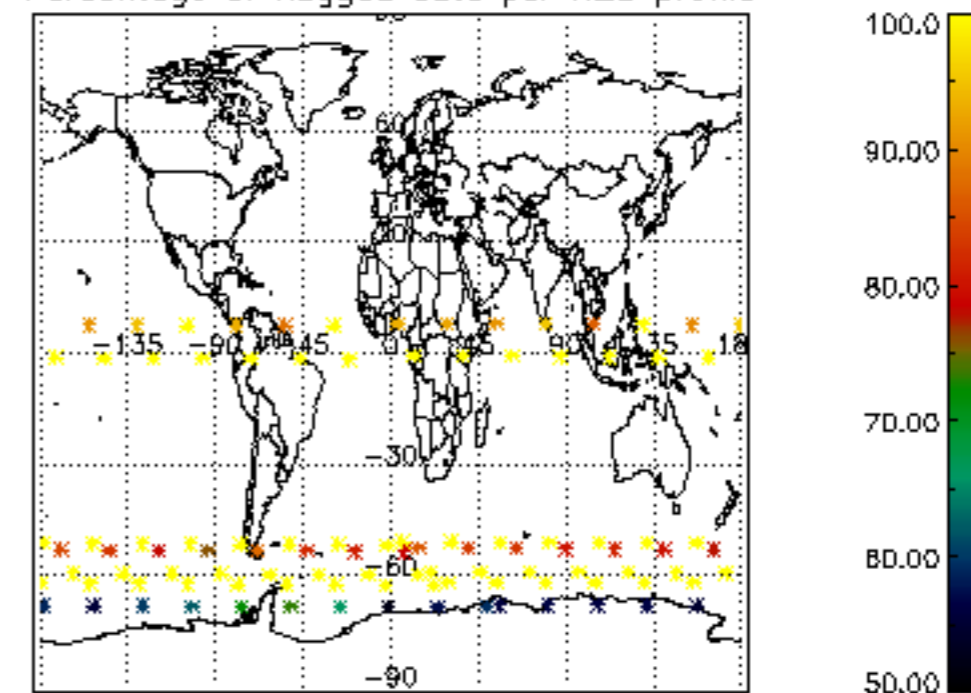
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-AUG-2010 00:01:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-AUG-2010 00:01:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-AUG-2010 00:01:02



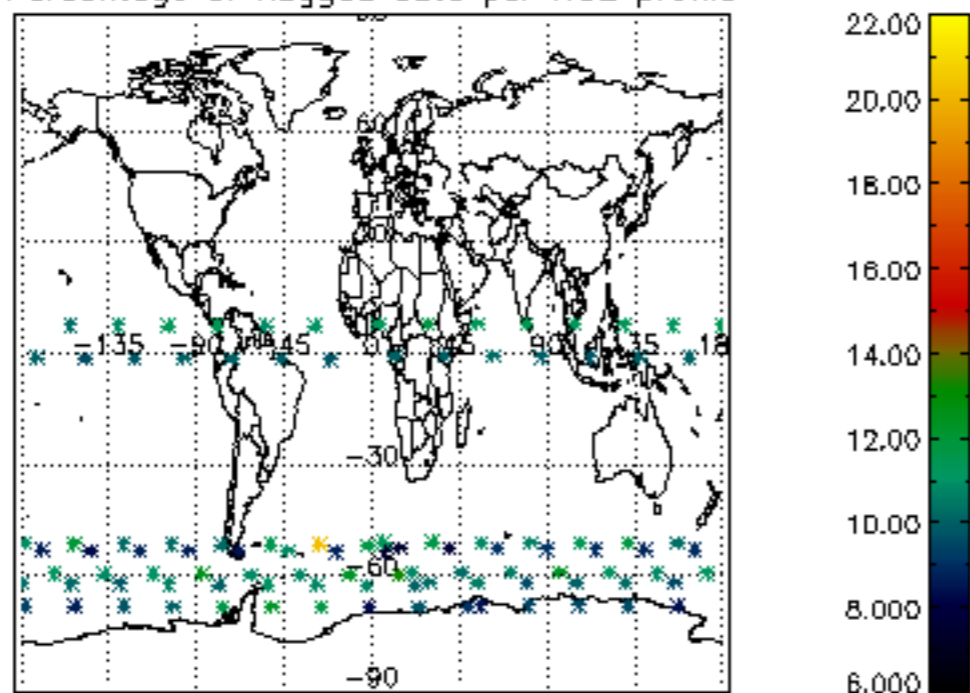
Percentage of flagged data per D3 profile



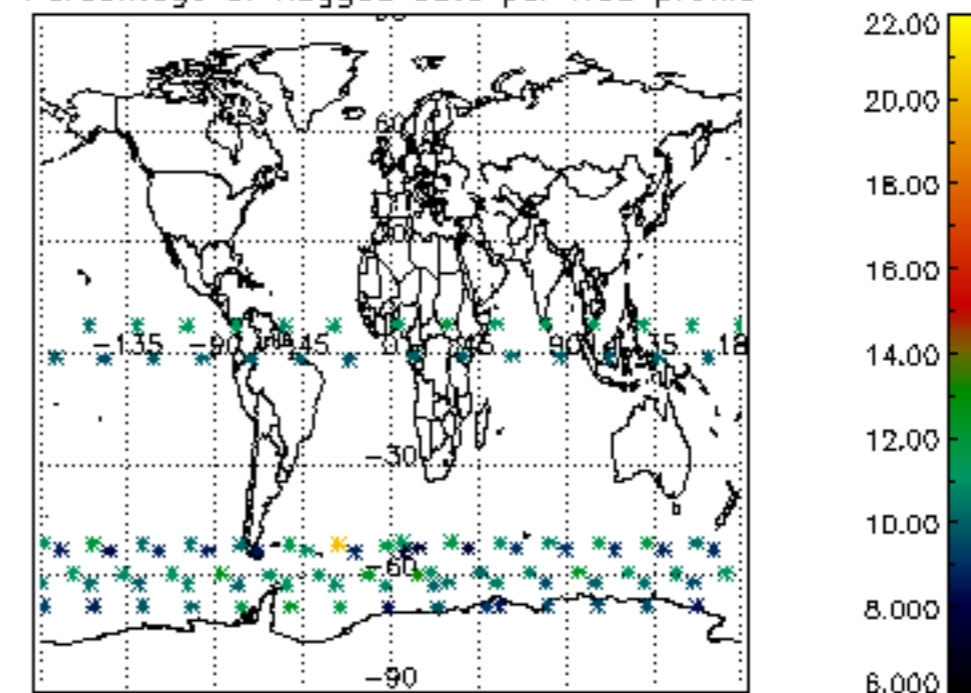
Percentage of flagged data per H2O profile

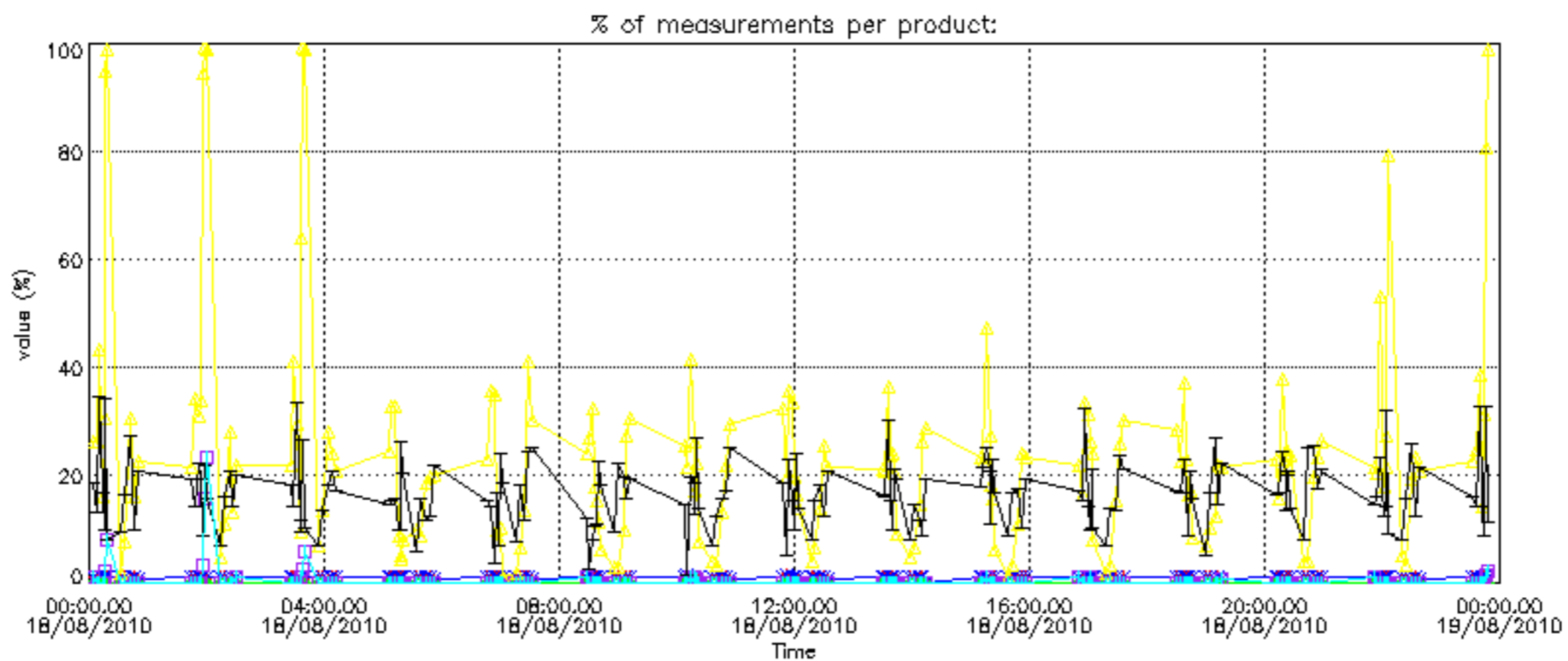


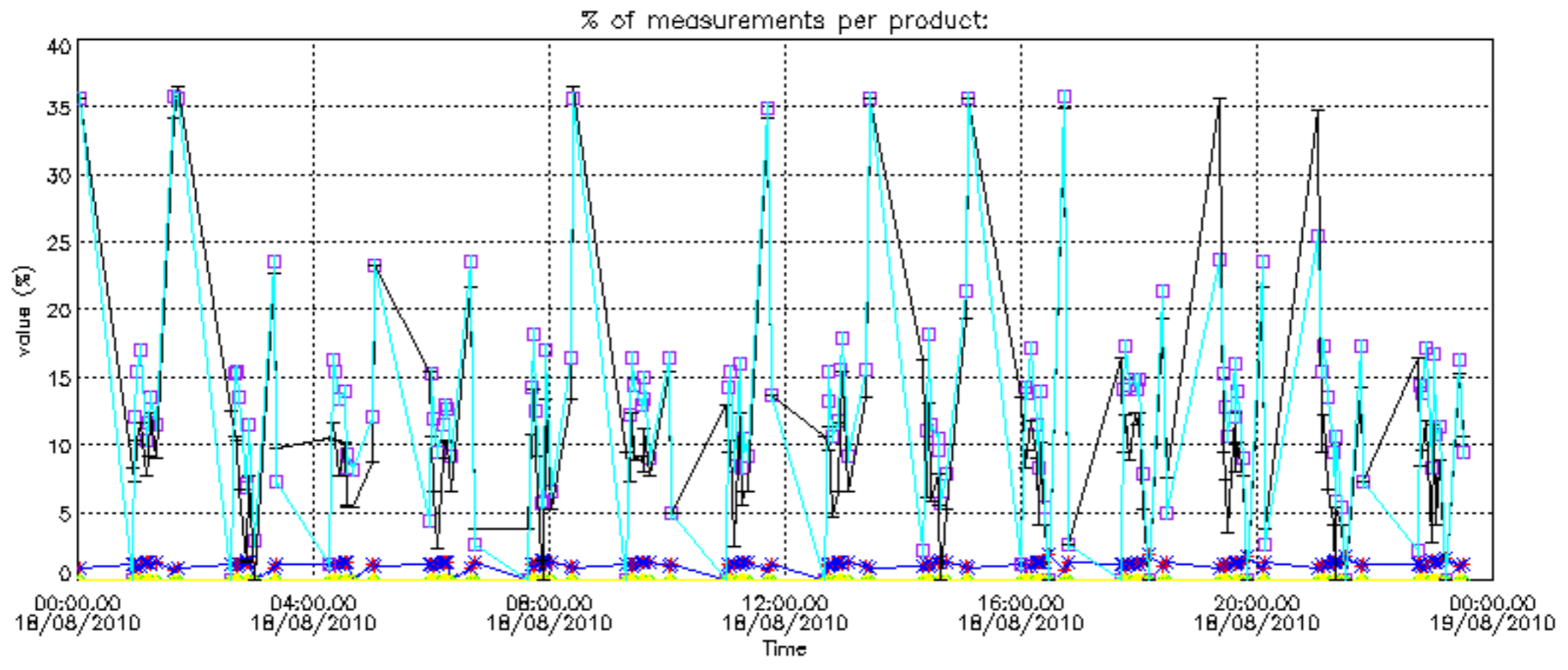
Percentage of flagged data per NO2 profile



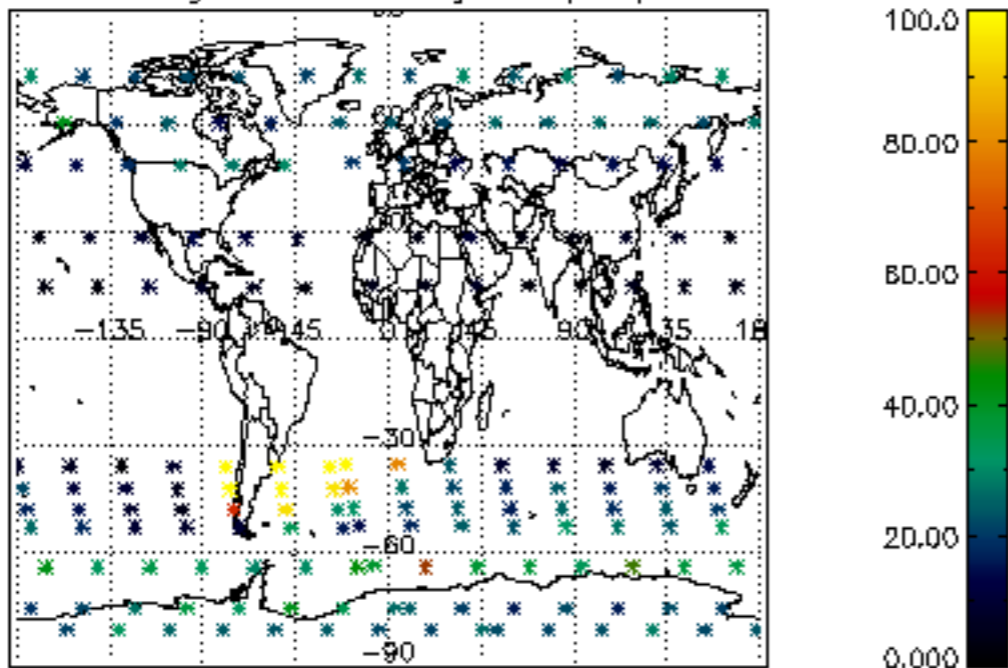
Percentage of flagged data per NO3 profile



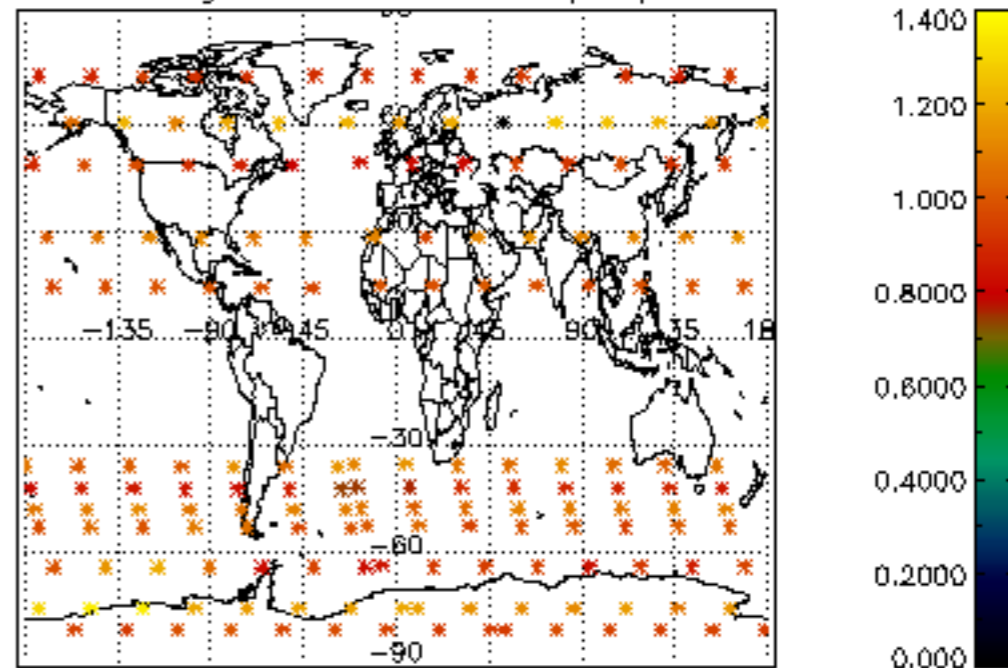




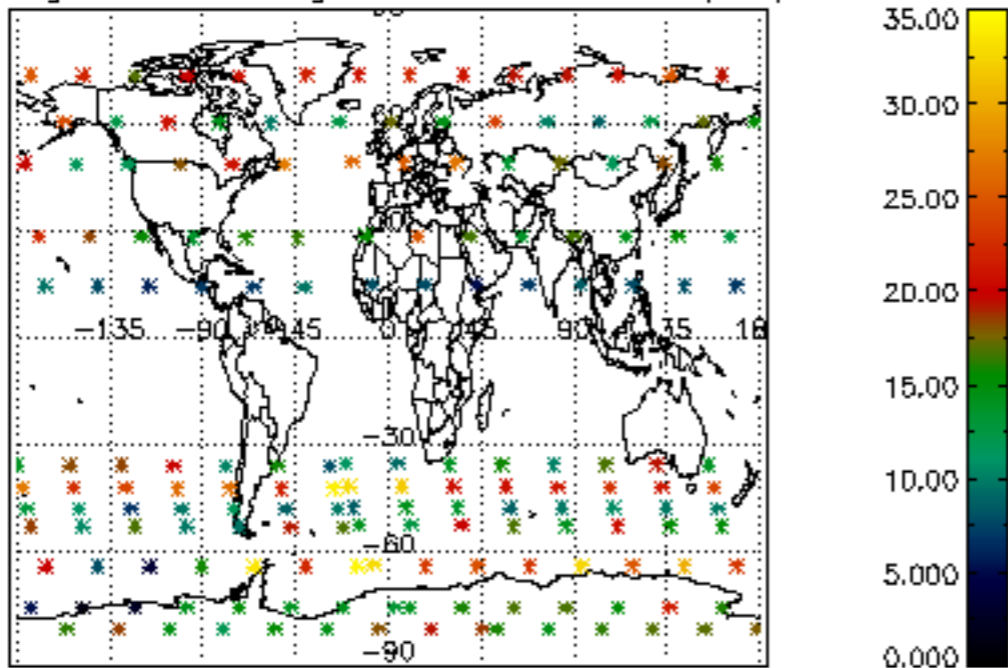
Percentage of cosmic ray hits per profile



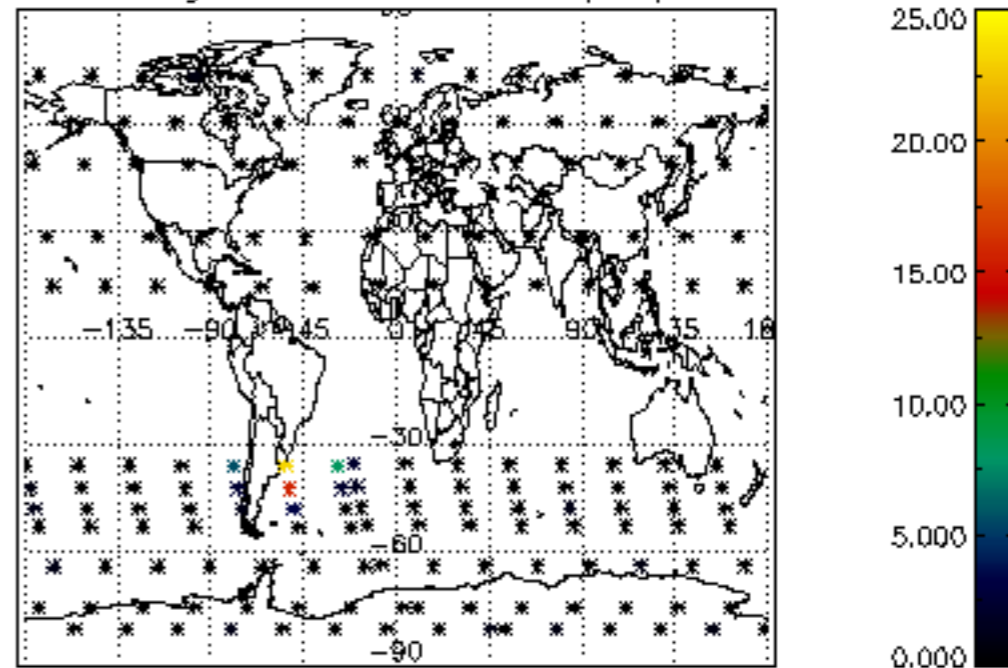
Percentage of datation errors per profile



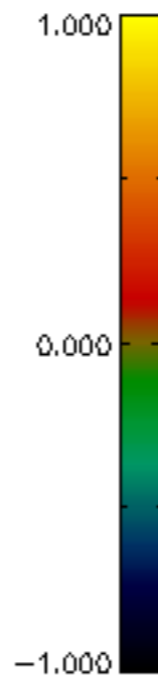
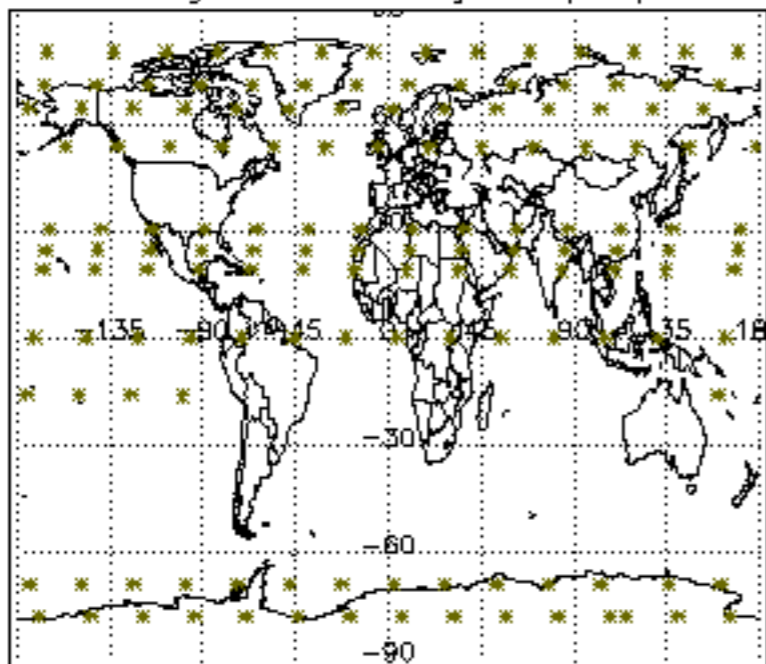
Percentage of star falling outside central band per profile



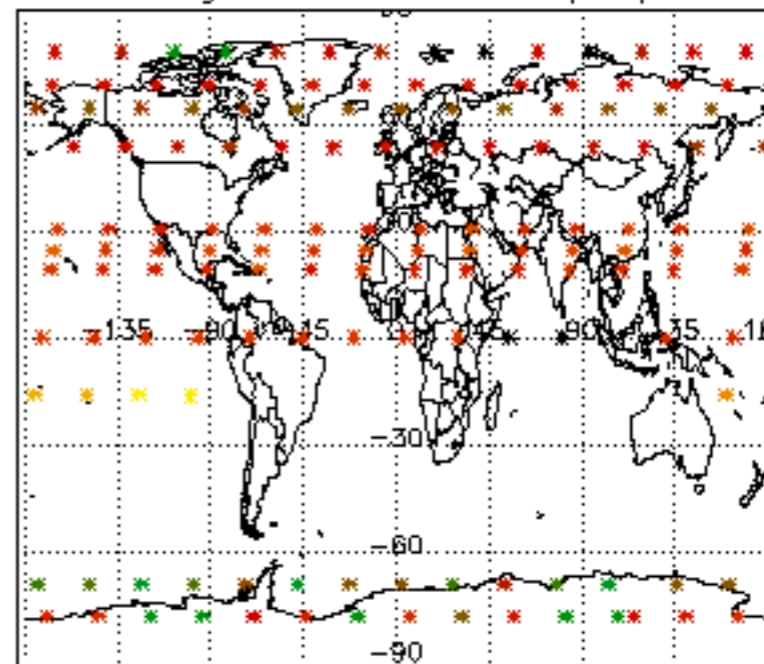
Percentage of saturation errors per profile



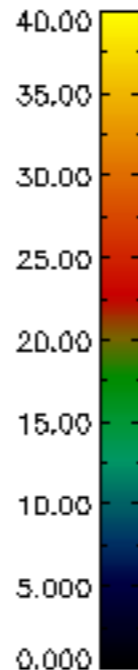
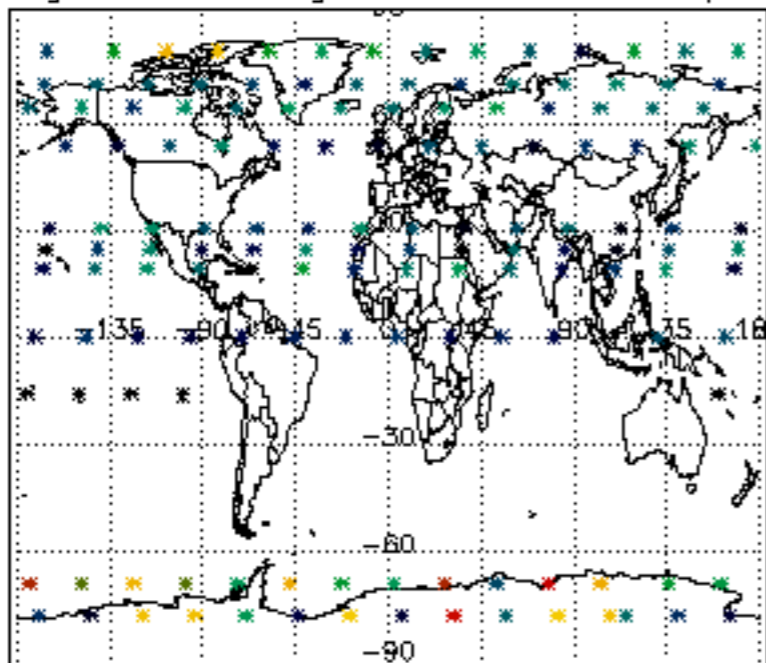
Percentage of cosmic ray hits per profile



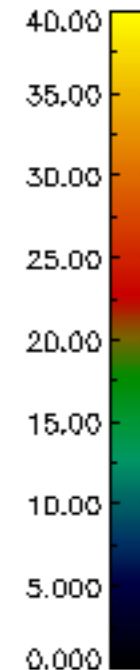
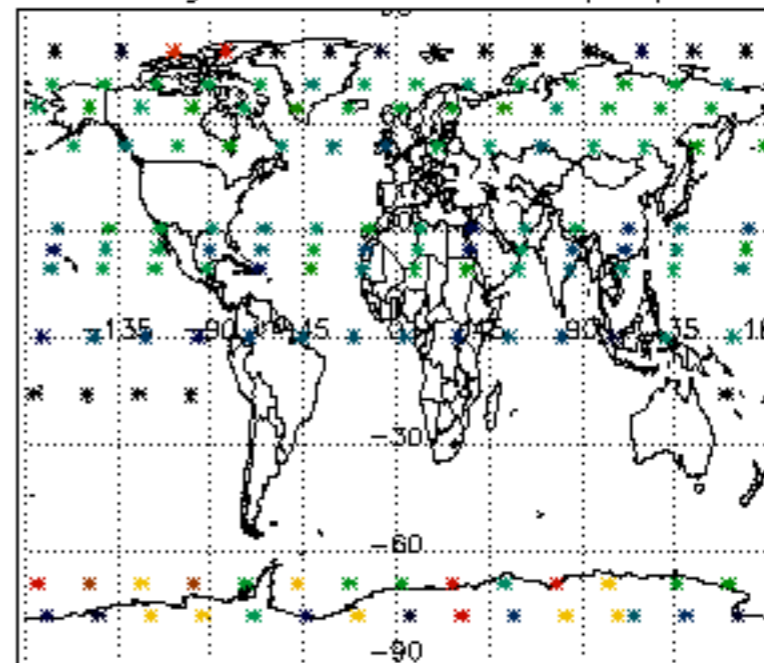
Percentage of datation errors per profile

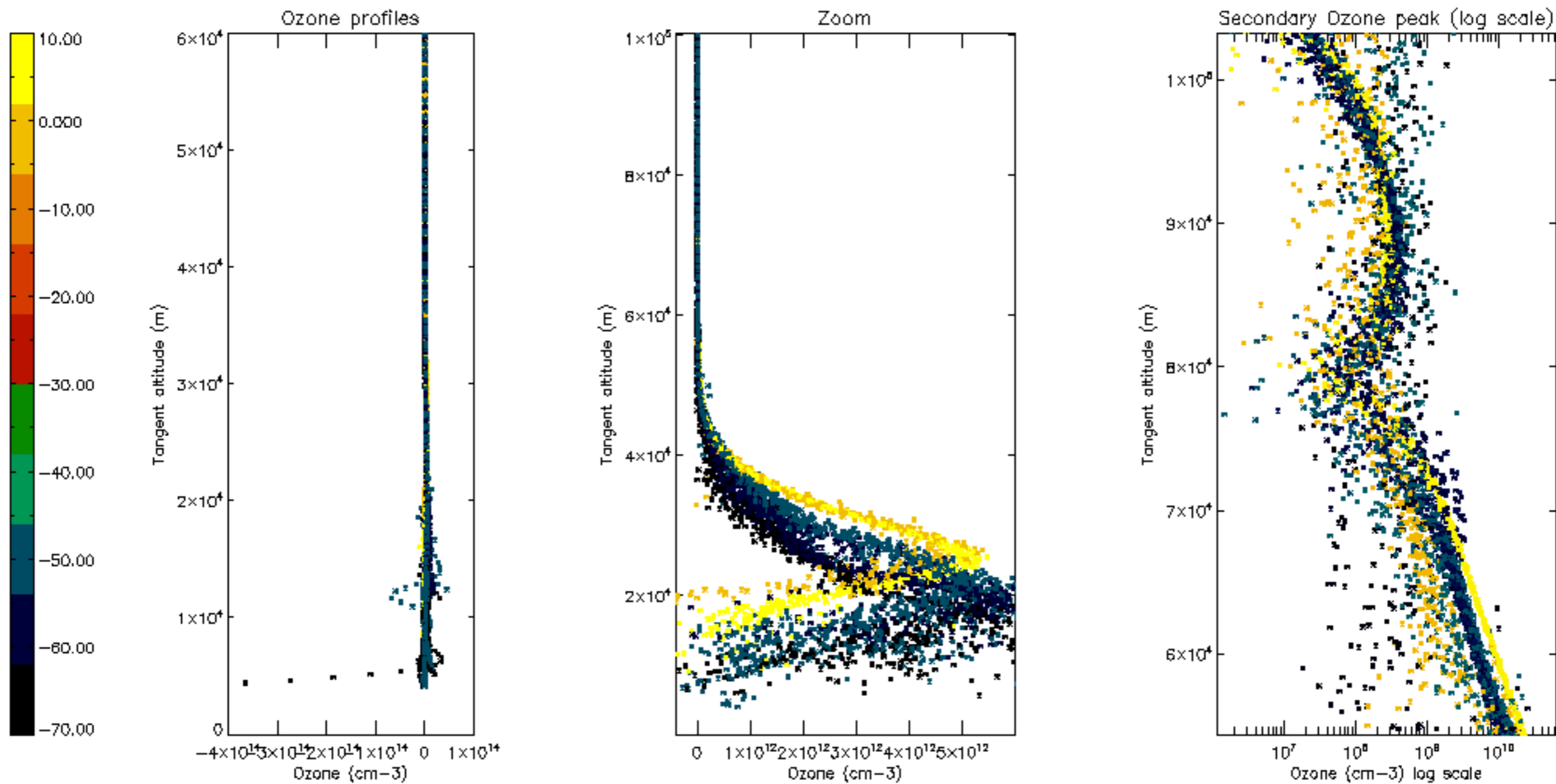


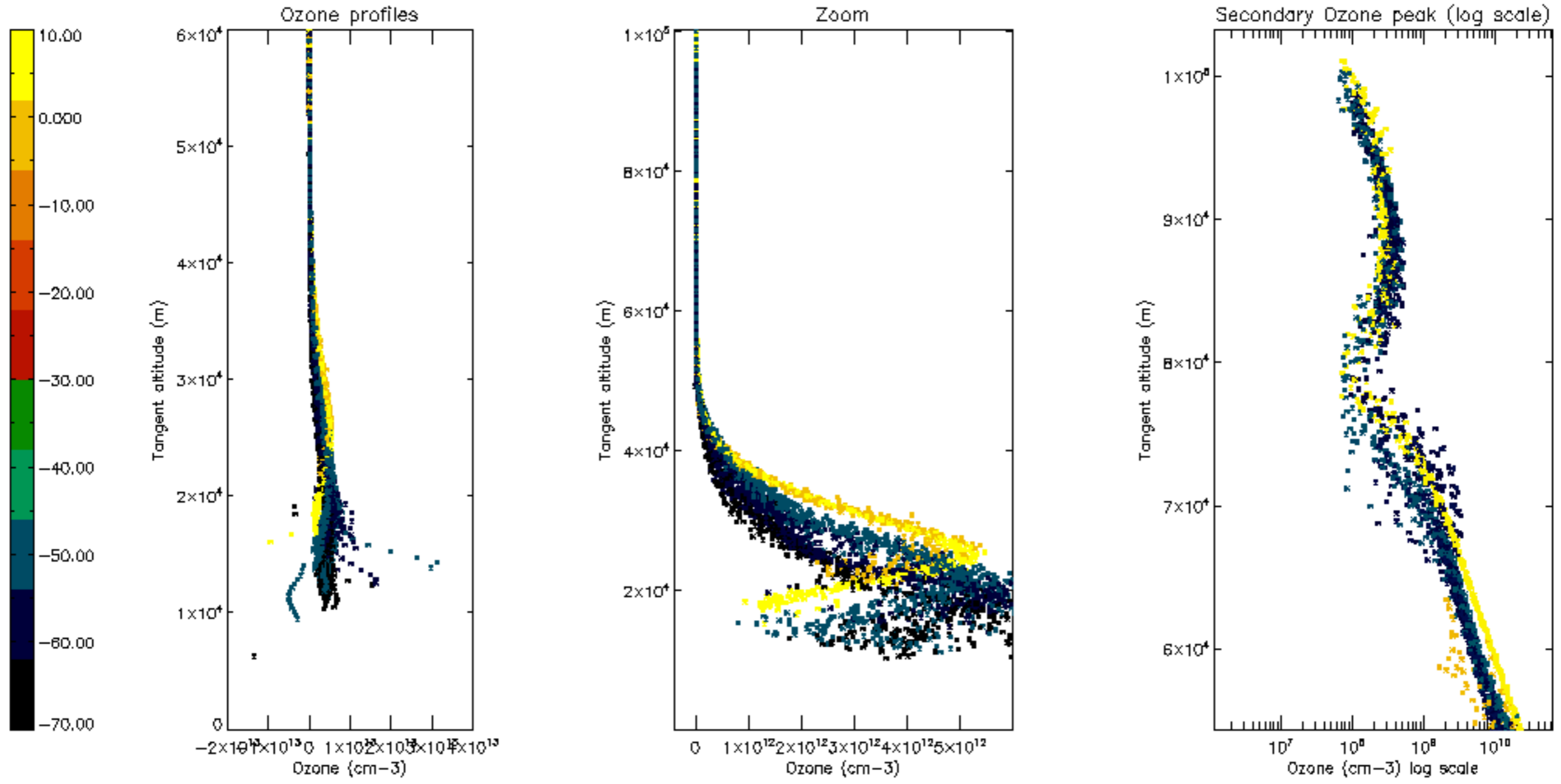
Percentage of star falling outside central band per profile

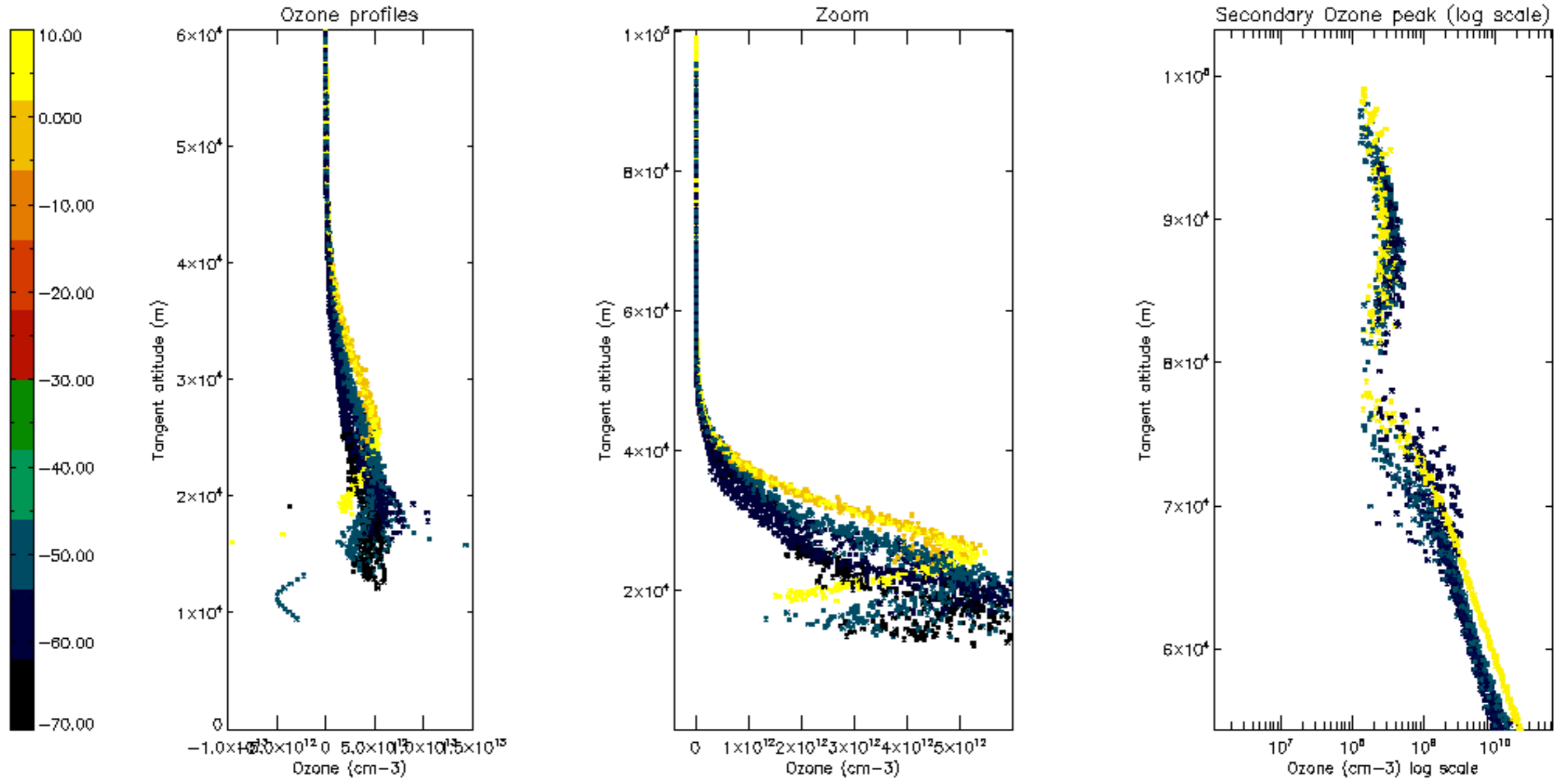


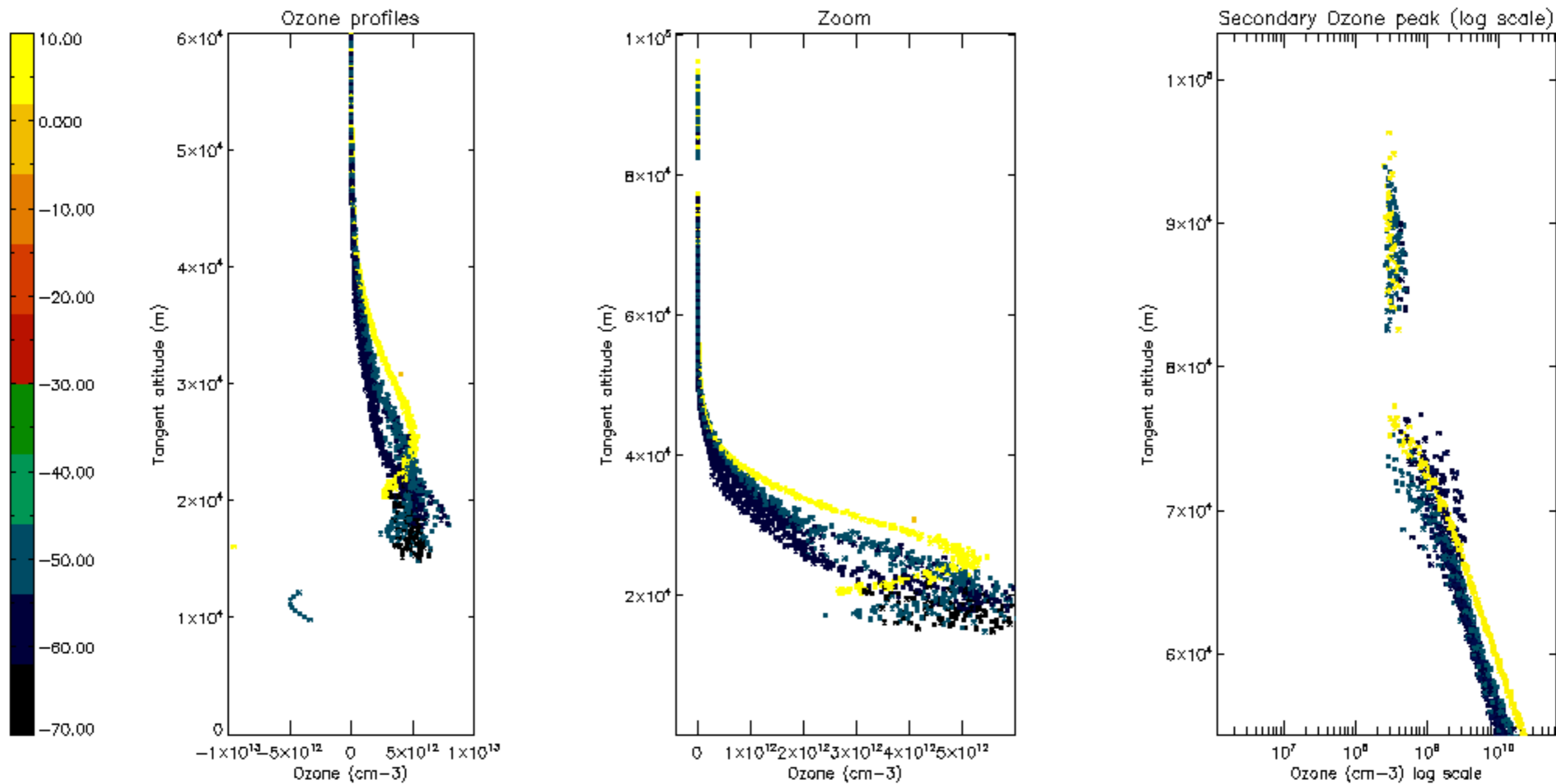
Percentage of saturation errors per profile

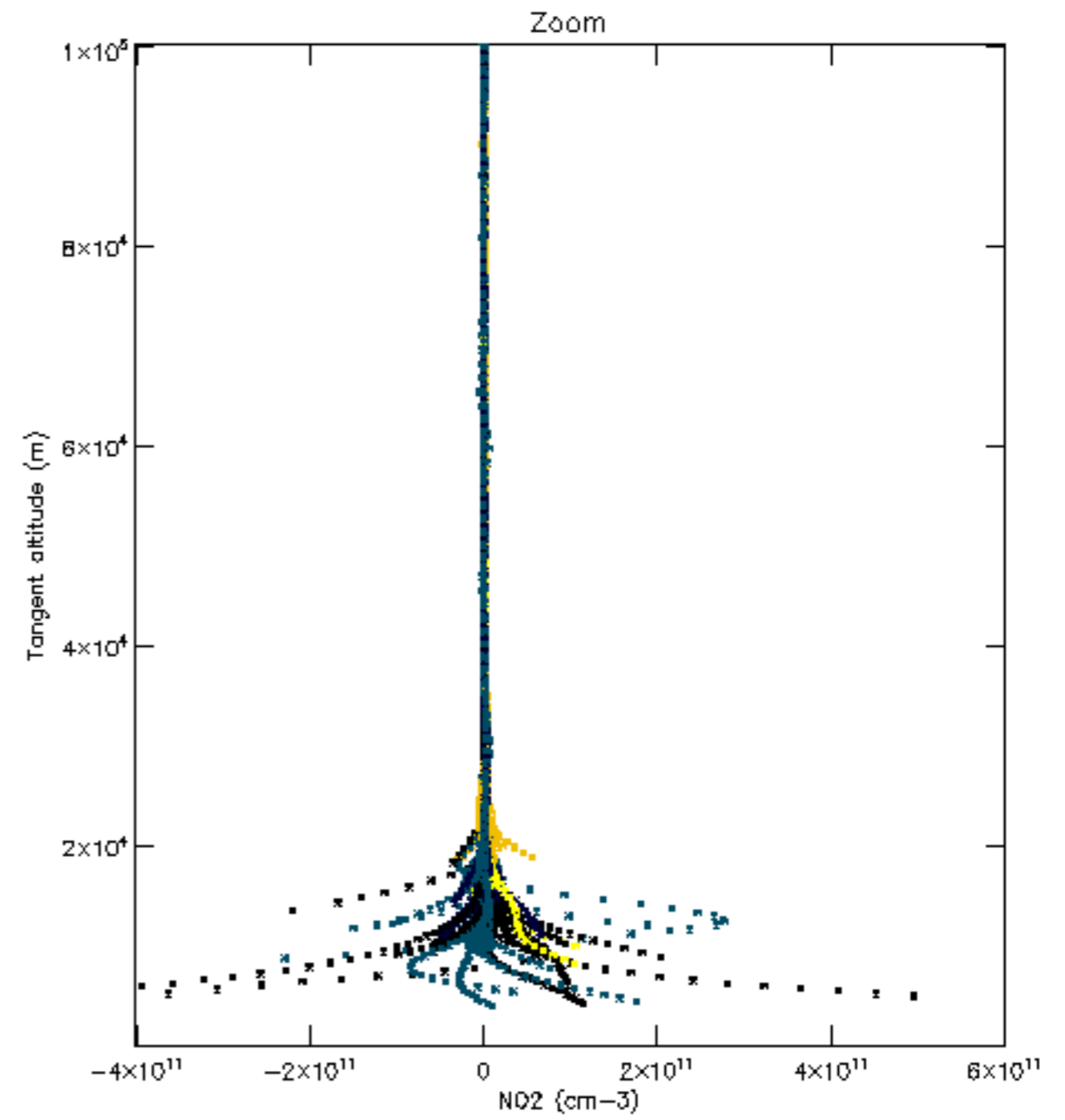
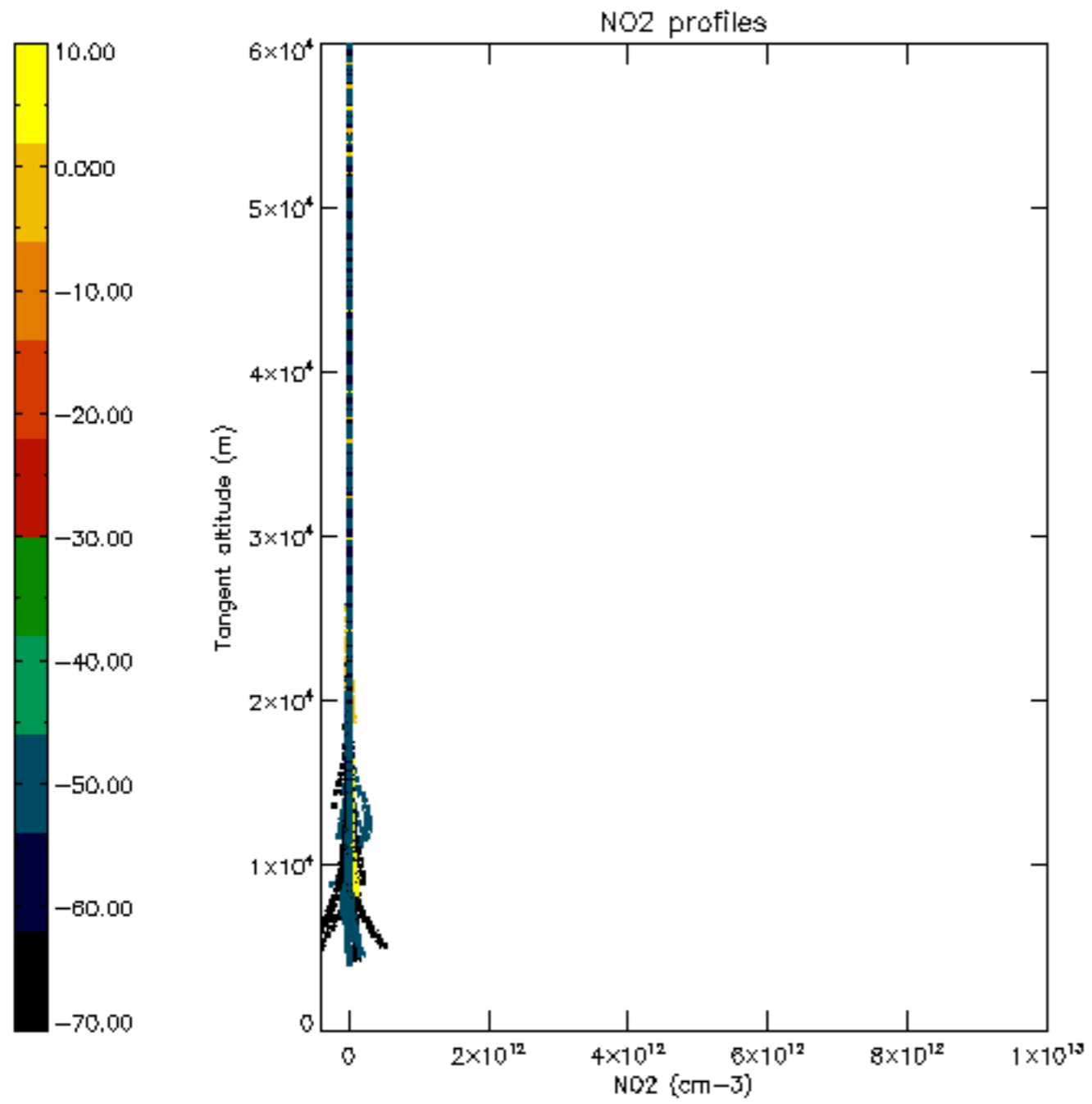


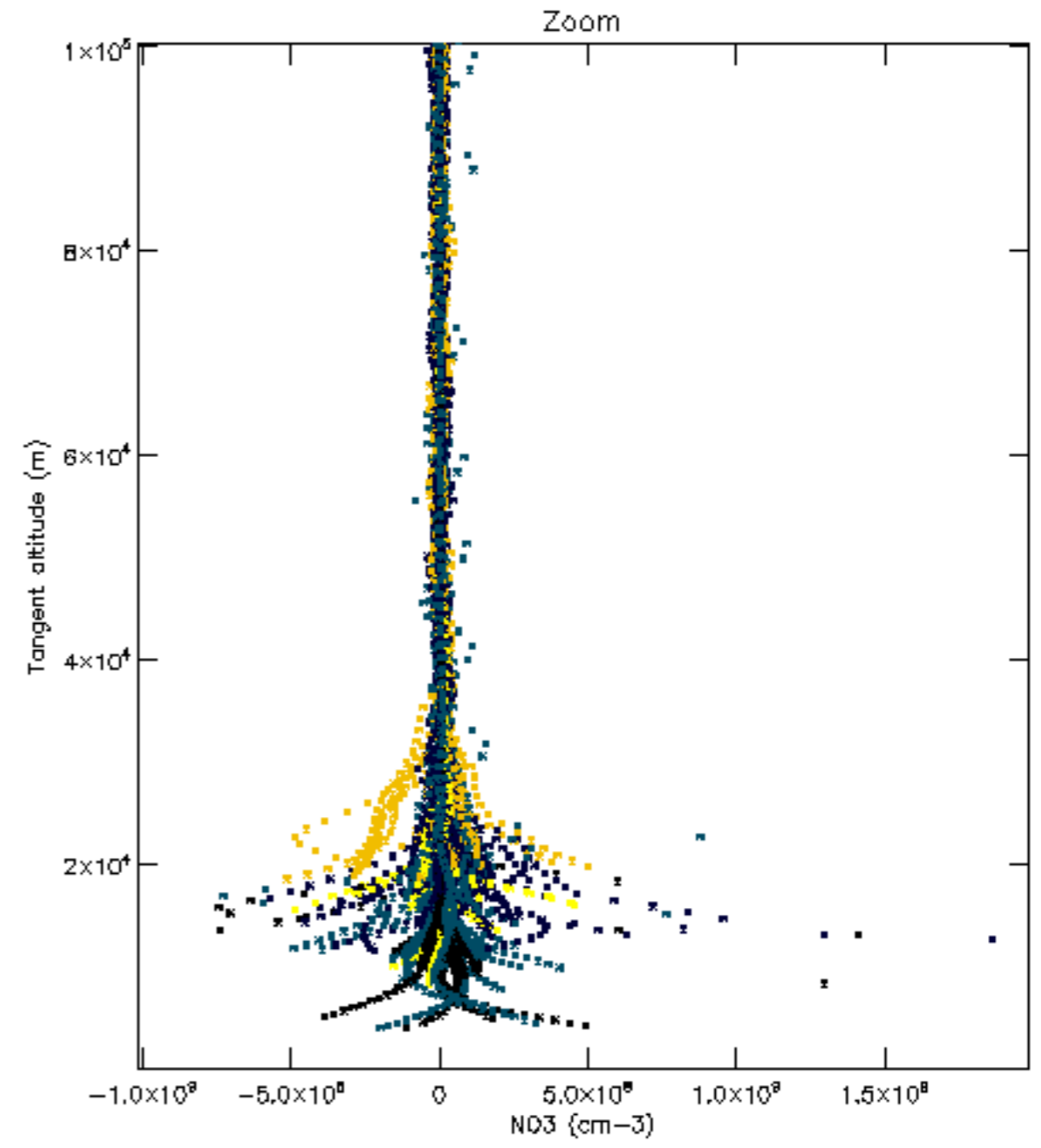
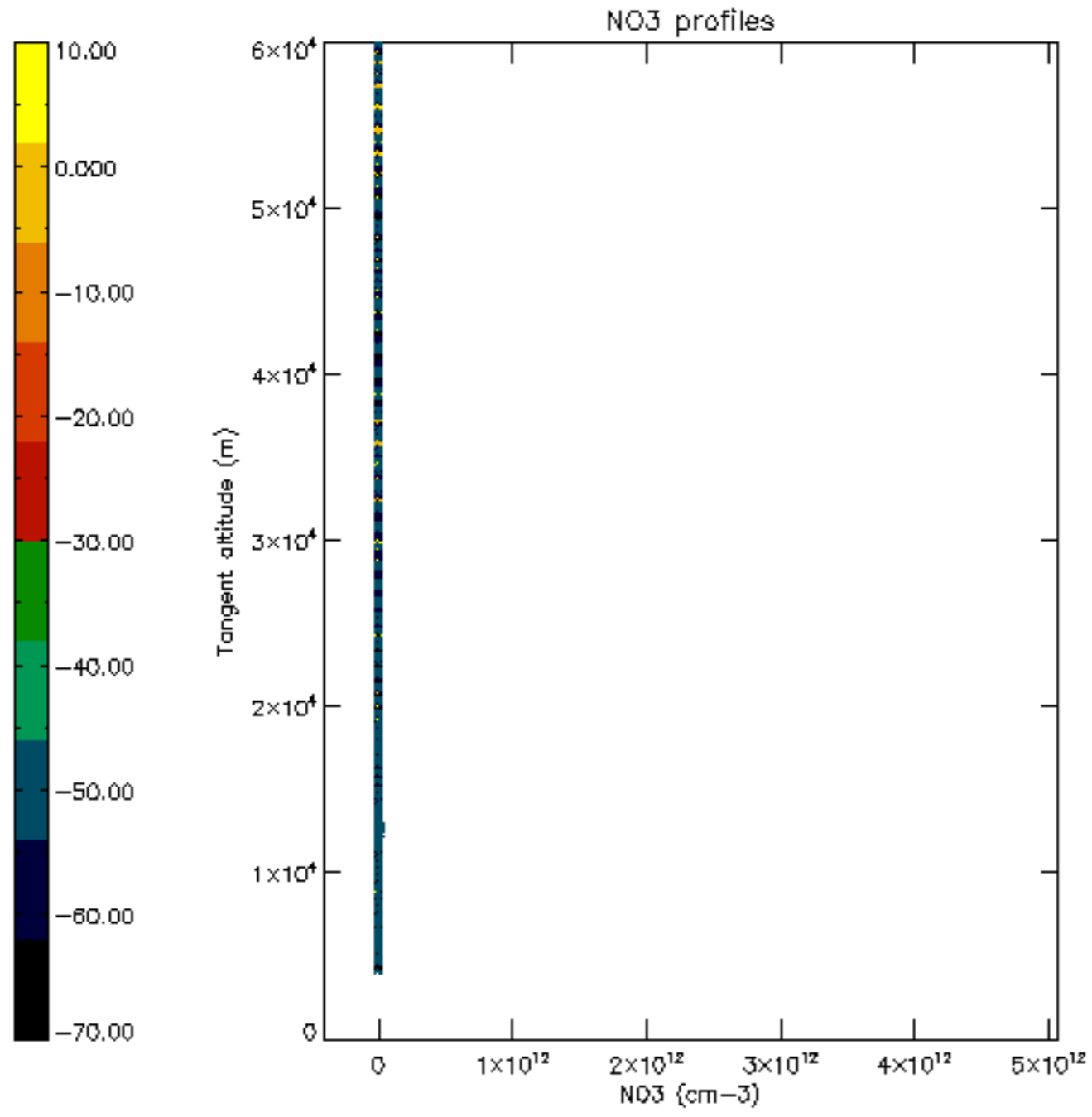


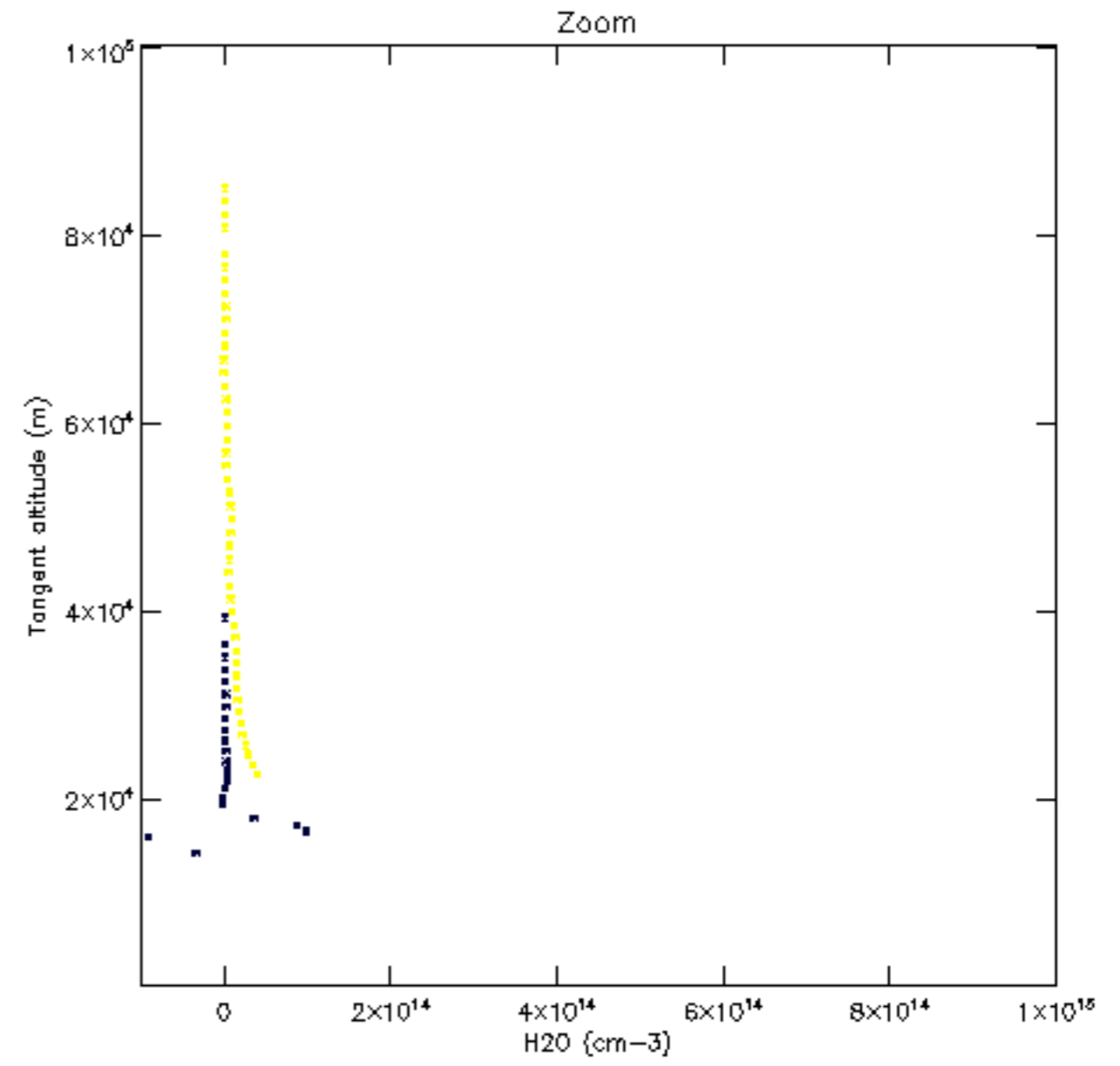
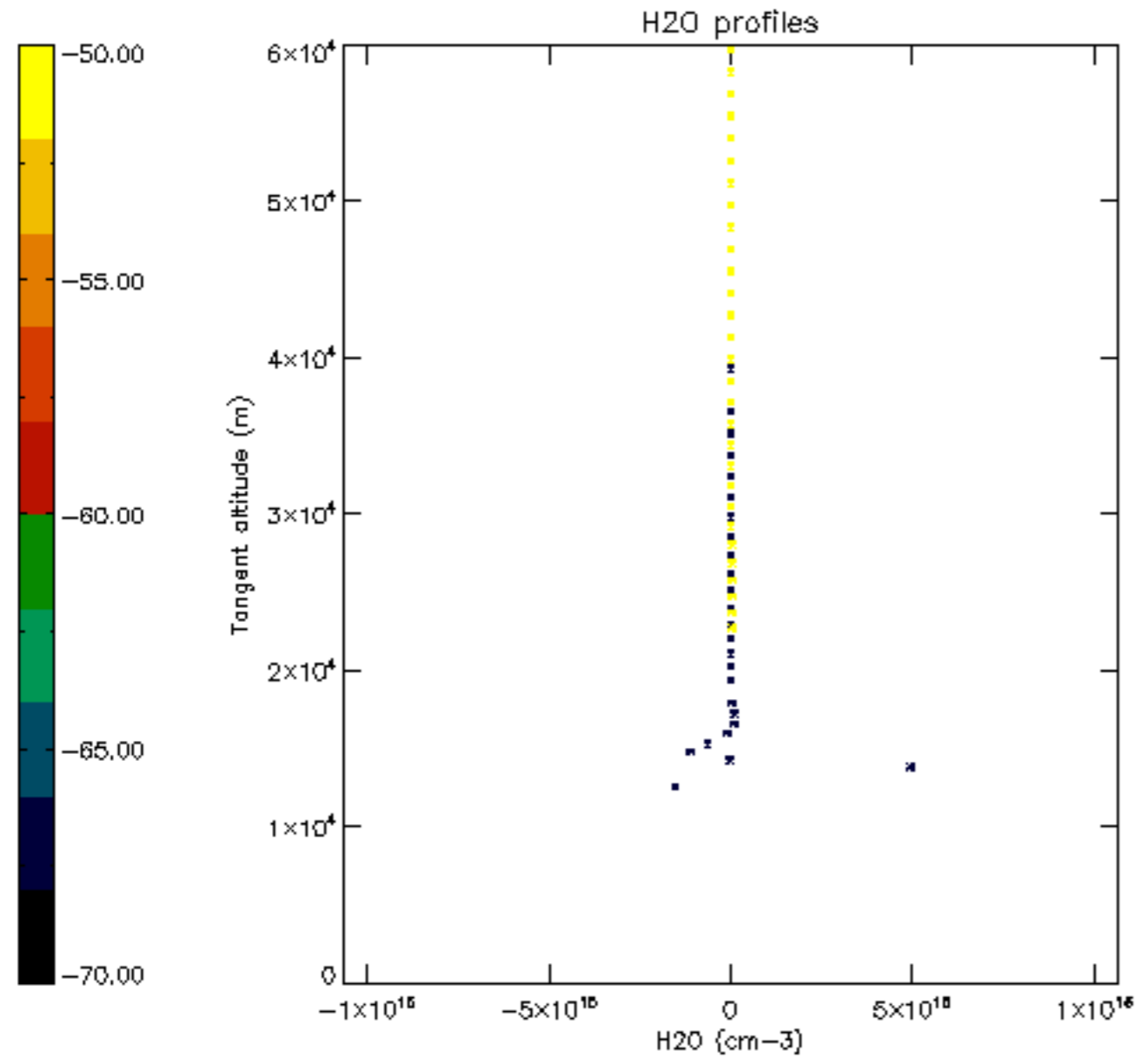


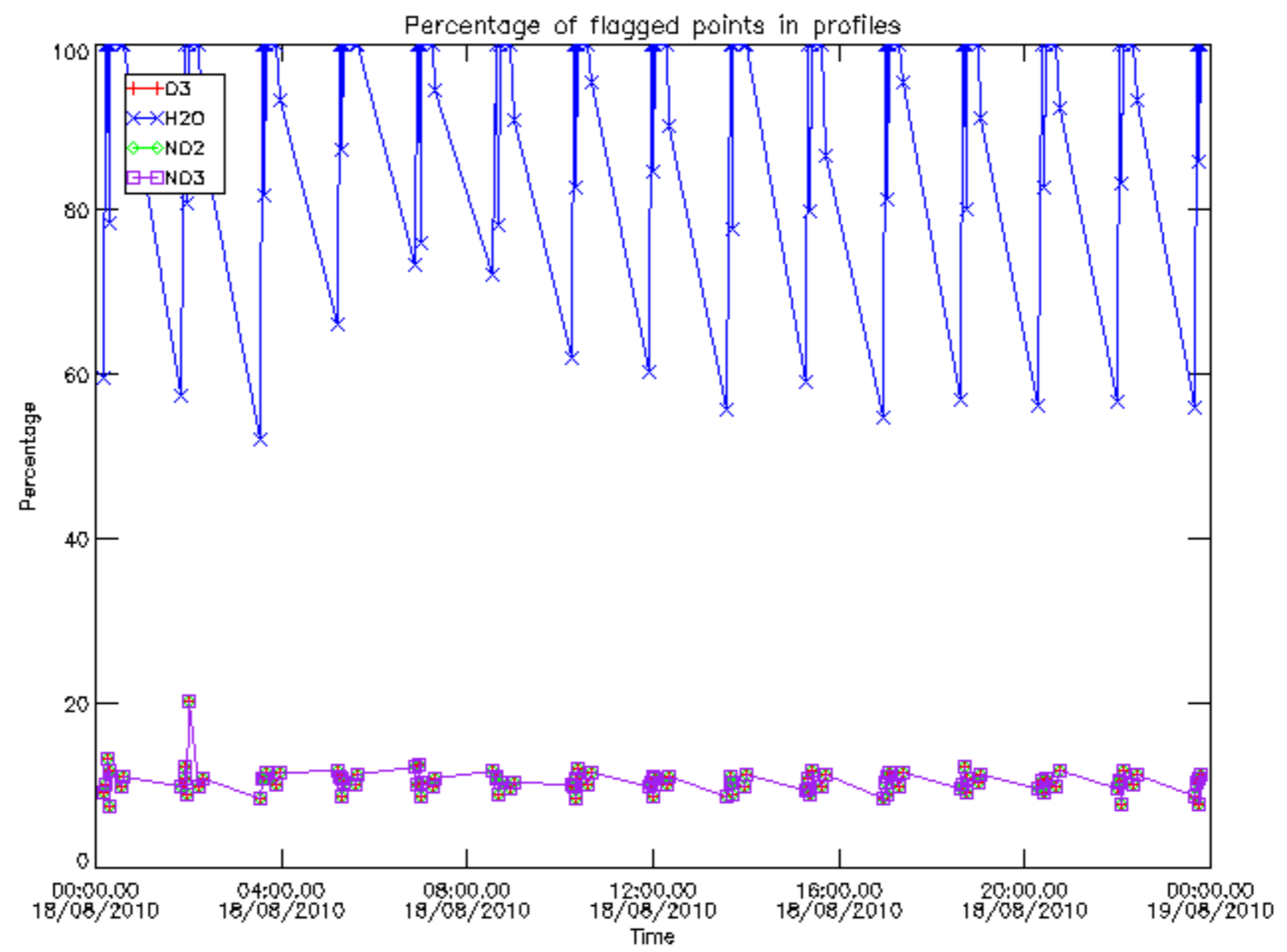




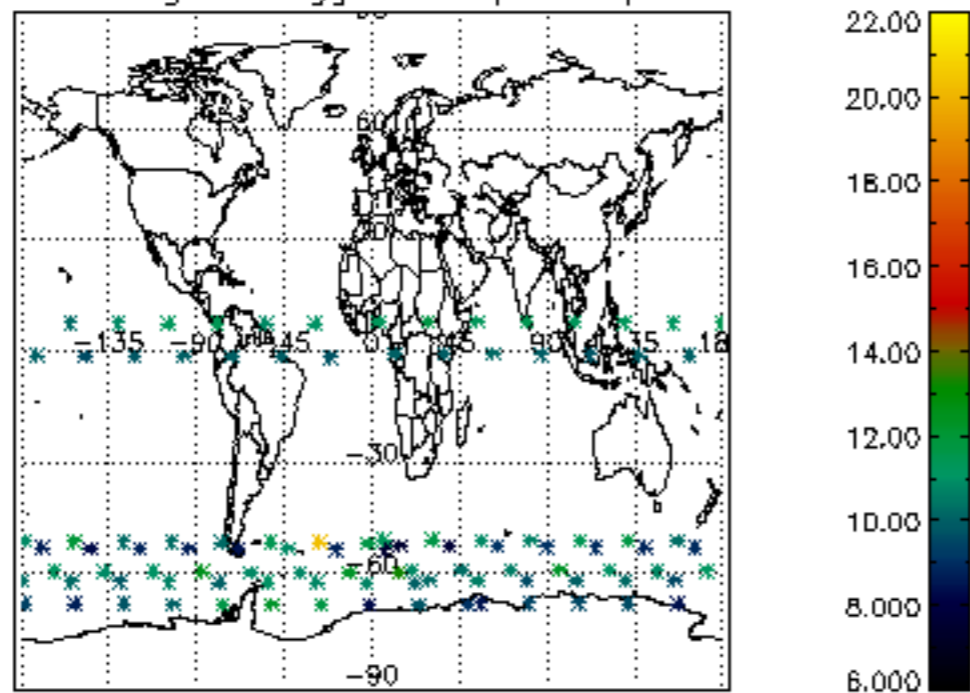




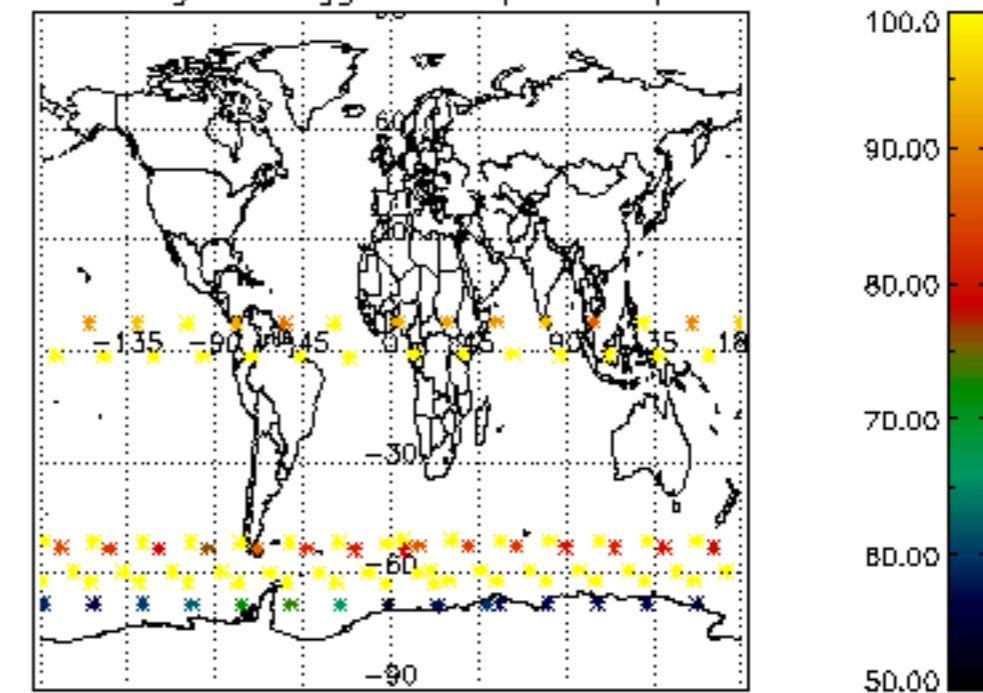




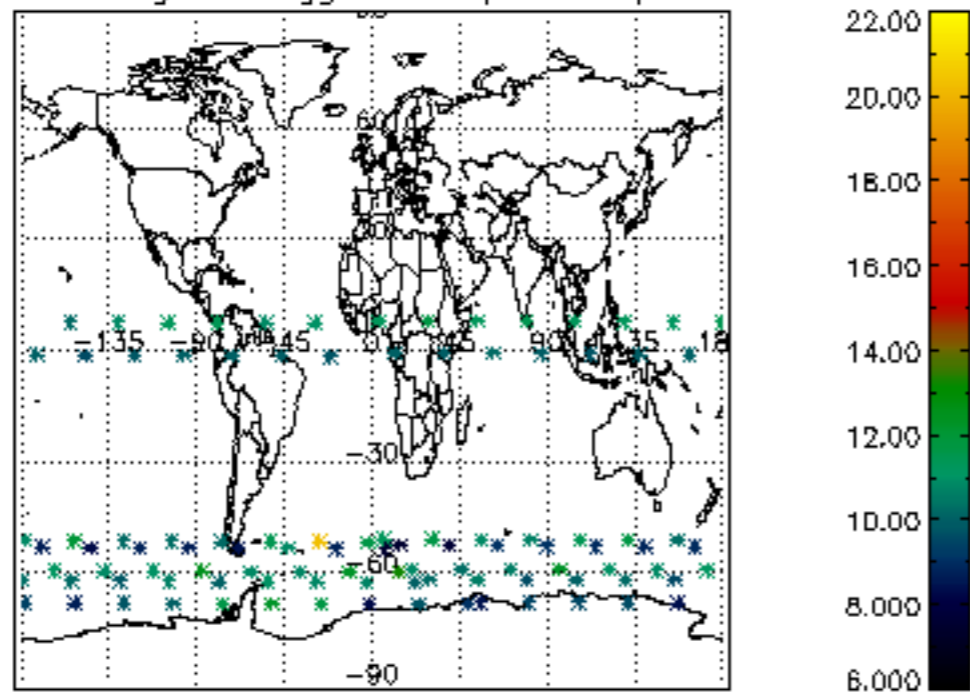
Percentage of flagged data per D3 profile



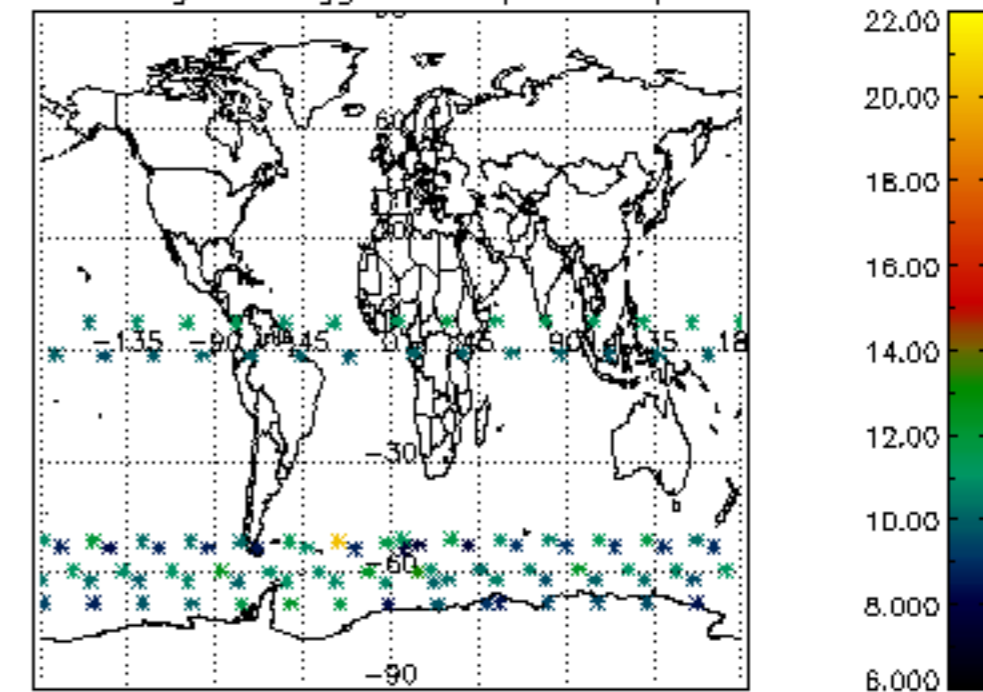
Percentage of flagged data per H2O profile

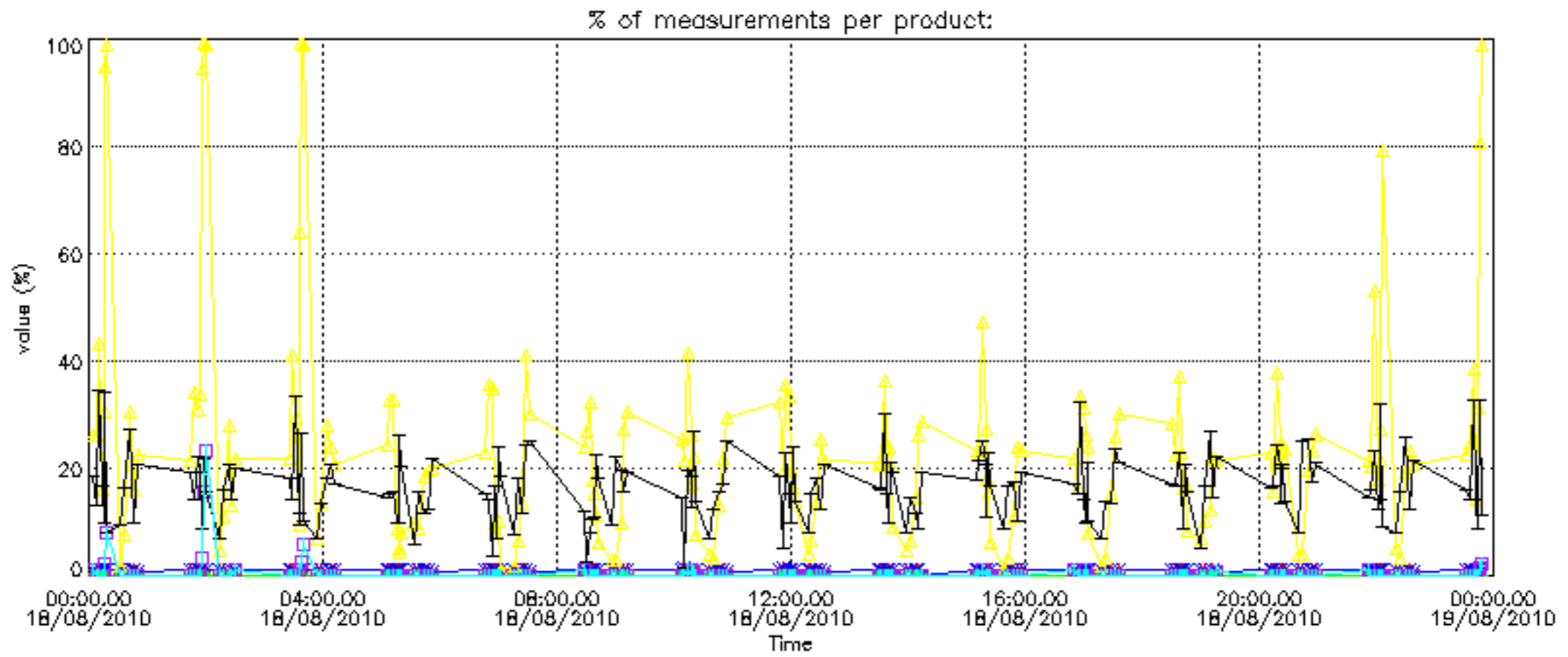


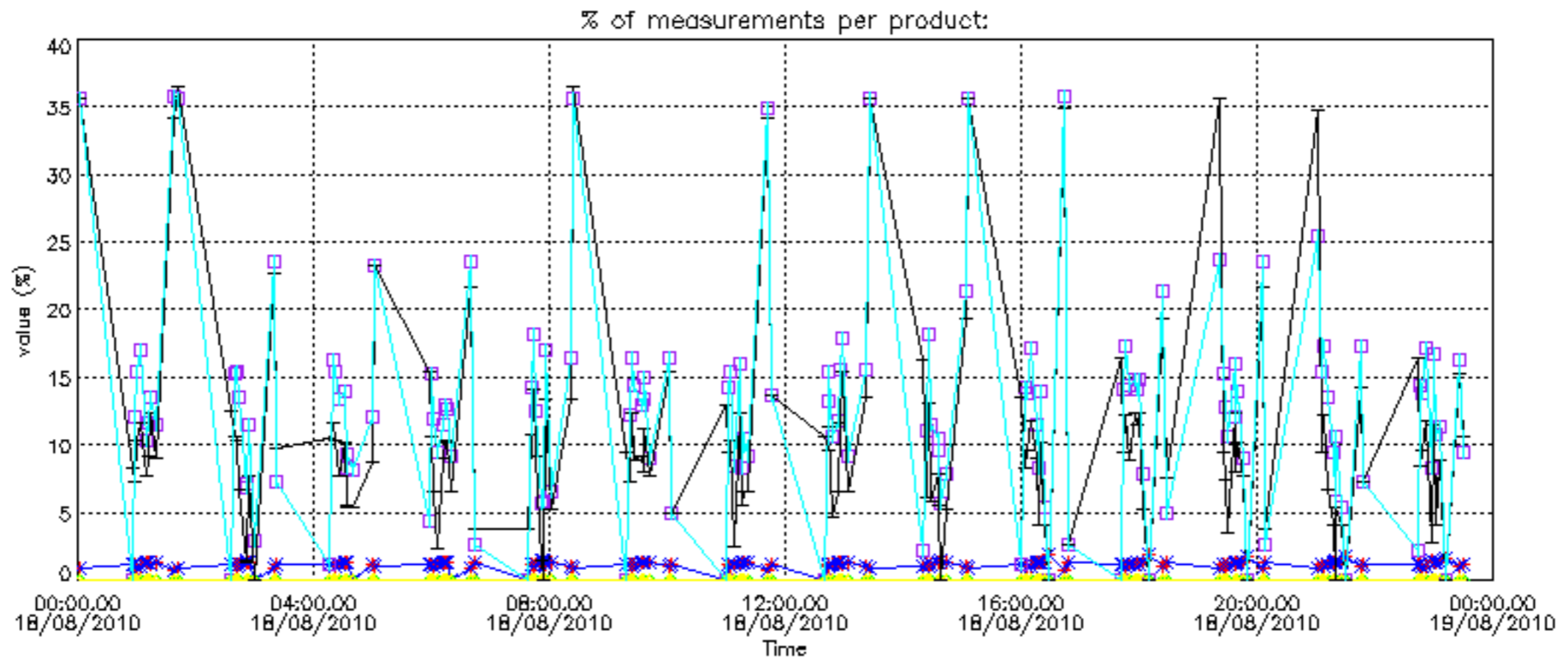
Percentage of flagged data per NO2 profile



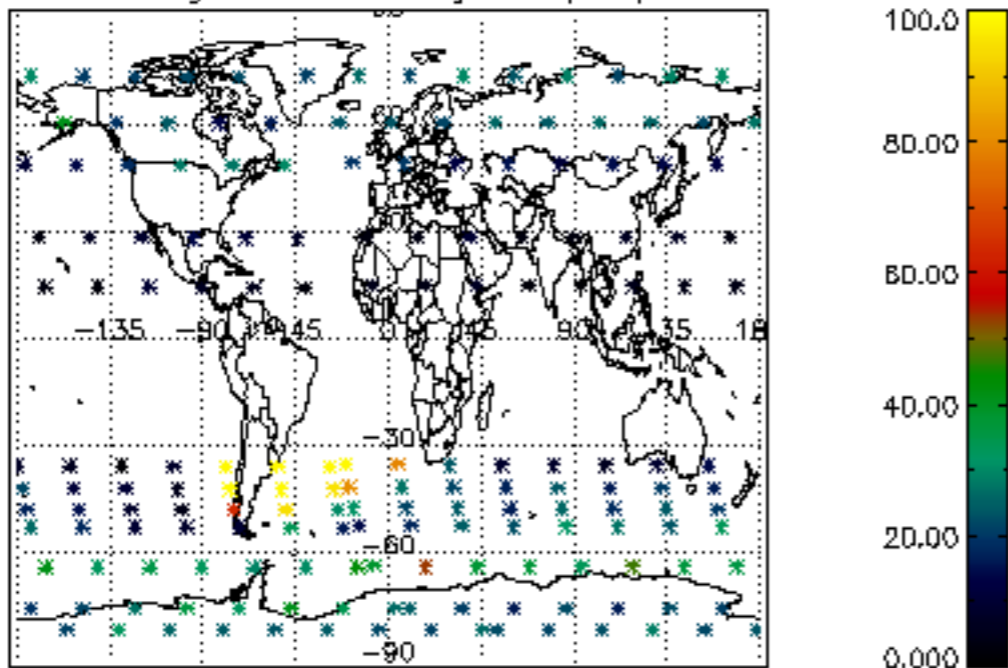
Percentage of flagged data per NO3 profile



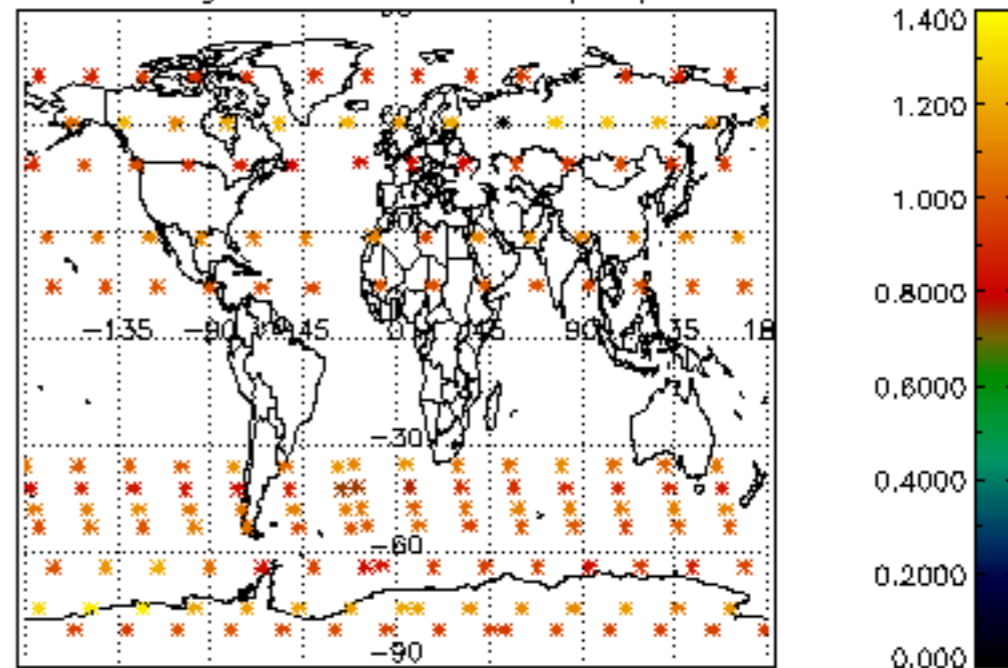




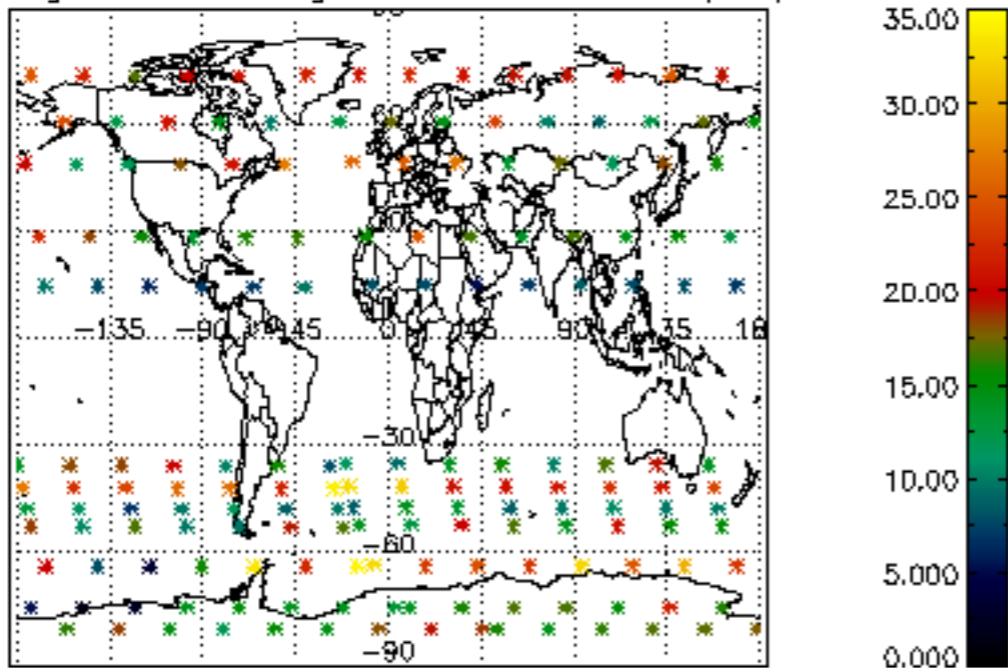
Percentage of cosmic ray hits per profile



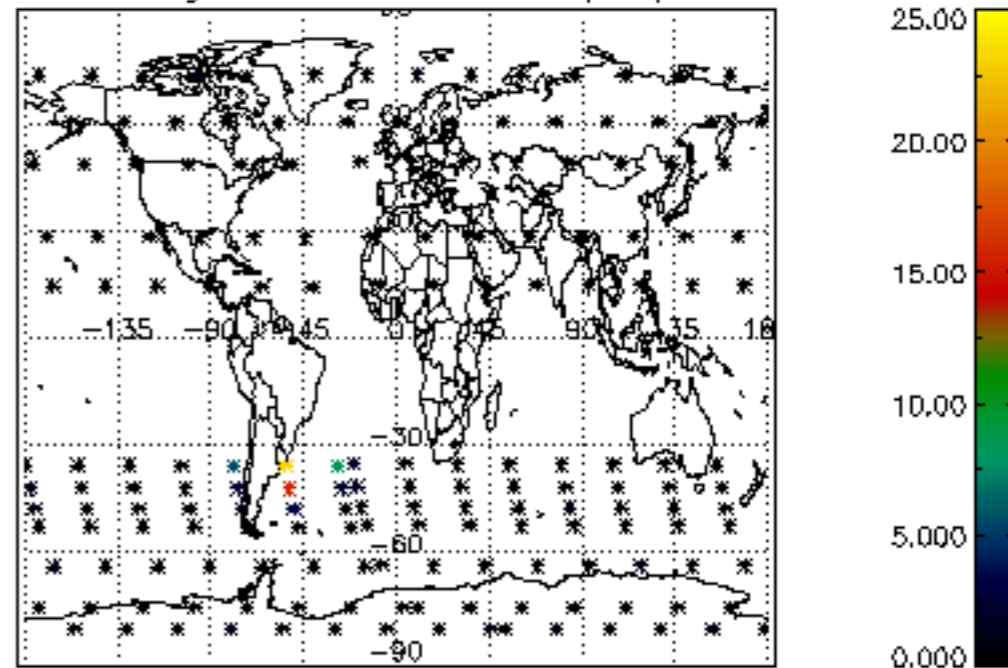
Percentage of datation errors per profile



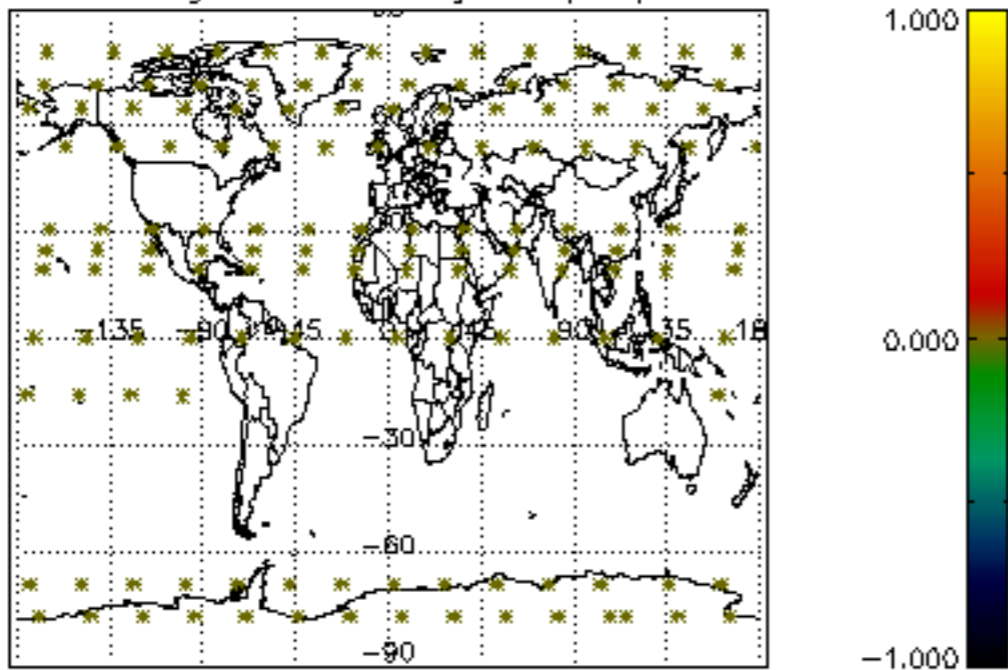
Percentage of star falling outside central band per profile



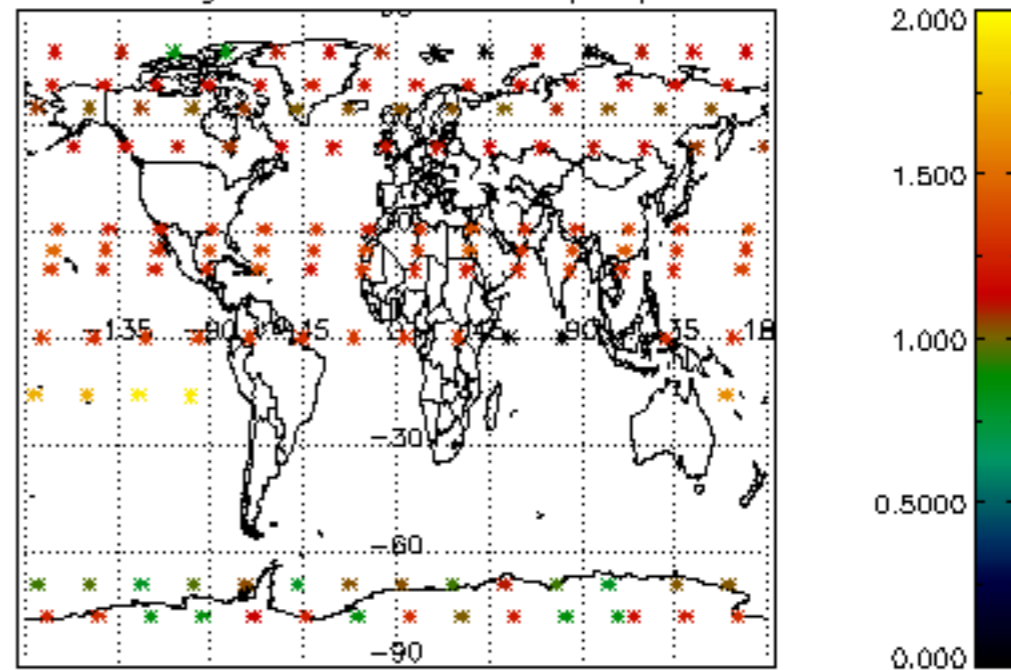
Percentage of saturation errors per profile



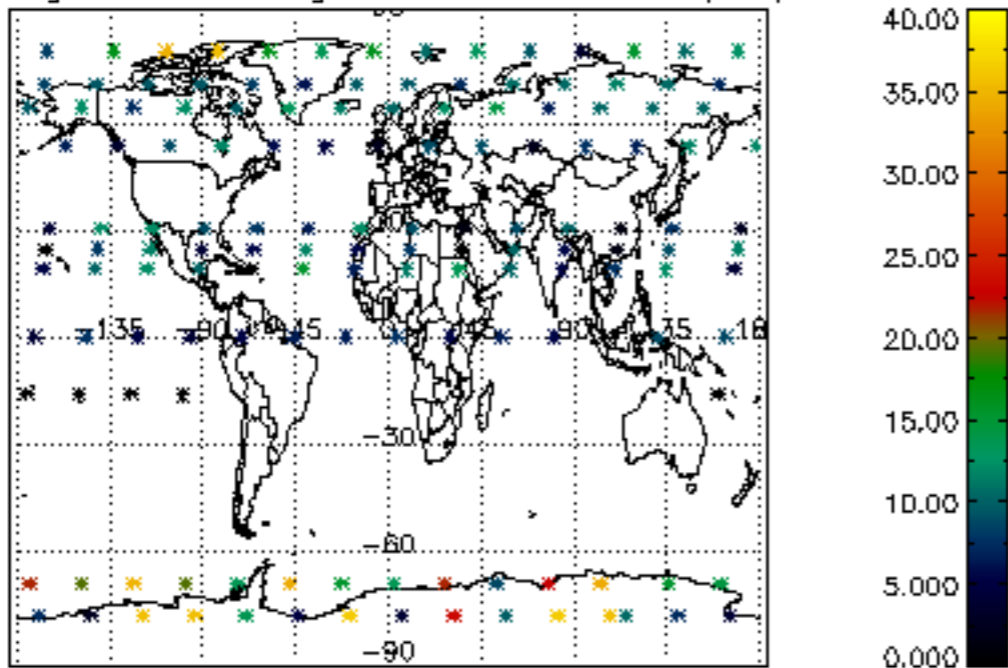
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

