

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 13:40:47
Data source version	GOMOS/6.01
Start time of products	16-05-2011 (16MAY2011 00:00:00)
Stop time of products	17-05-2011 (17MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

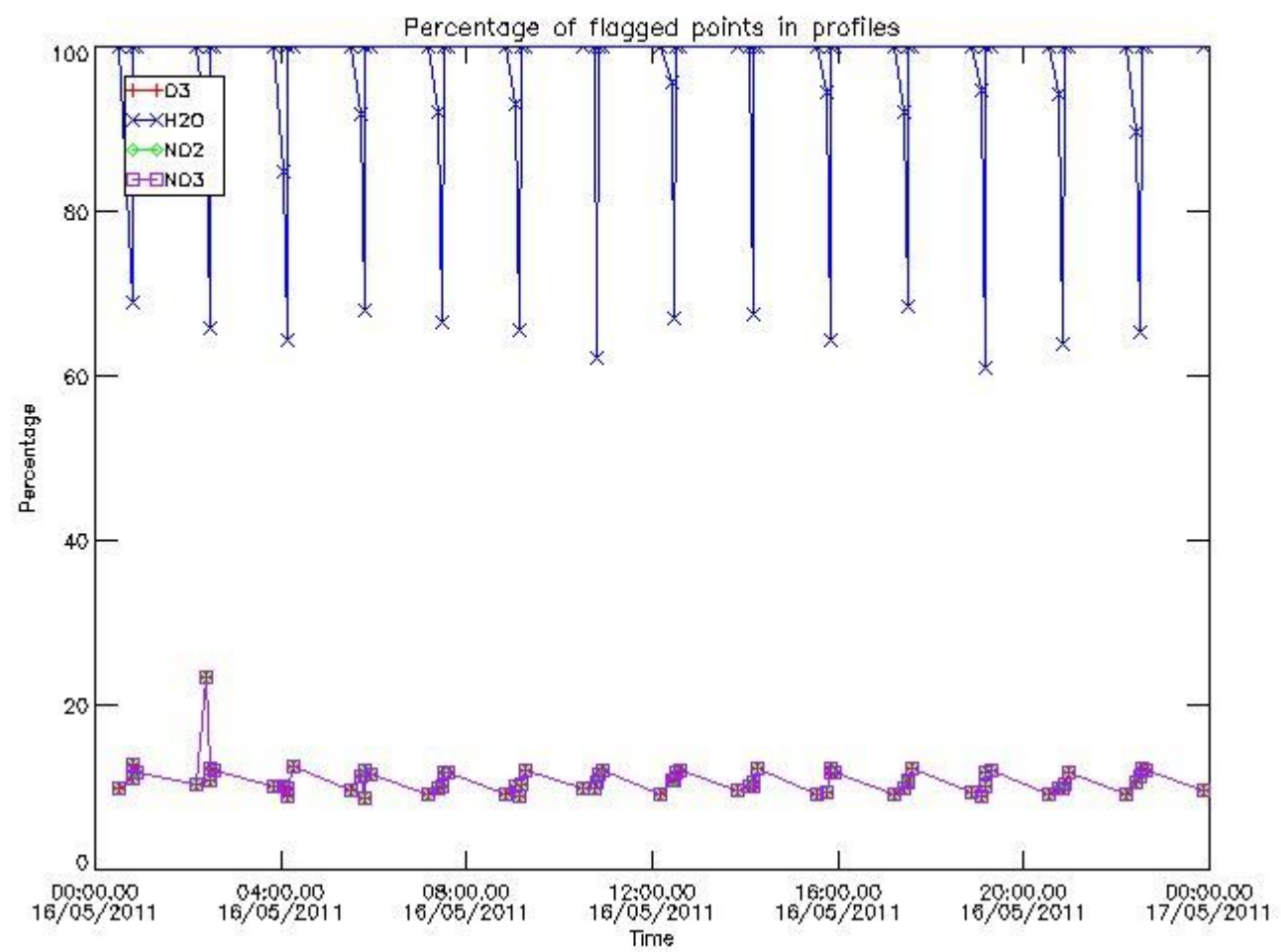
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110516_000132_000000383102_00289_48148_7912.N1	16-MAY-2011 00:01:32	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	48148	No
2	GOM_NL__2PRFIN20110516_001051_000000463102_00289_48148_7913.N1	16-MAY-2011 00:10:51	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48148	No
3	GOM_NL__2PRFIN20110516_001428_000000393102_00289_48148_7914.N1	16-MAY-2011 00:14:28	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	48148	No
4	GOM_NL__2PRFIN20110516_002445_000000683102_00289_48148_7915.N1	16-MAY-2011 00:24:45	Twilight	67.500	93	53Bet Peg	2.5200	3100.0	135	48148	No
5	GOM_NL__2PRFIN20110516_002751_000000453102_00289_48148_7916.N1	16-MAY-2011 00:27:51	Twilight	44.500	140	88Gam Peg	2.8340	26000.0	89	48148	No
6	GOM_NL__2PRFIN20110516_002929_000000513102_00289_48148_7917.N1	16-MAY-2011 00:29:29	Dark	50.500	90	54Alp Peg	2.4870	11000.0	101	48148	No
7	GOM_NL__2PRFIN20110516_004727_000000463102_00289_48148_7918.N1	16-MAY-2011 00:47:27	Dark	45.500	63	Bet Gru	2.1500	2800.0	91	48148	No
8	GOM_NL__2PRFIN20110516_004856_000000443102_00289_48148_7919.N1	16-MAY-2011 00:48:56	Dark	43.500	31	Alp Gru	1.7340	15200.0	87	48148	No
9	GOM_NL__2PRFIN20110516_005428_000000433102_00290_48149_7906.N1	16-MAY-2011 00:54:28	Dark	43.000	45	Alp Pav	1.9400	26000.0	86	48149	No
10	GOM_NL__2PRFIN20110516_010136_000000443102_00290_48149_7907.N1	16-MAY-2011 01:01:36	Straylight	44.000	141	Bet Ara	2.8400	4600.0	88	48149	No
11	GOM_NL__2PRFIN20110516_010410_000000493102_00290_48149_7908.N1	16-MAY-2011 01:04:10	Straylight	48.500	40	The Sco	1.8590	7100.0	97	48149	No
12	GOM_NL__2PRFIN20110516_010601_000000543102_00290_48149_7909.N1	16-MAY-2011 01:06:01	Straylight	53.500	25	35Lam Sco	1.6200	28000.0	107	48149	No
13	GOM_NL__2PRFIN20110516_010820_000000533102_00290_48149_7910.N1	16-MAY-2011 01:08:20	Twilight	53.000	75	26Eps Sco	2.2910	4250.0	106	48149	No
14	GOM_NL__2PRFIN20110516_011124_000000653102_00290_48149_7911.N1	16-MAY-2011 01:11:24	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	48149	No
15	GOM_NL__2PRFIN20110516_011358_000000453102_00290_48149_7912.N1	16-MAY-2011 01:13:58	Bright	44.500	97	8Bet1Sco	2.5610	30000.0	89	48149	No
16	GOM_NL__2PRFIN20110516_011547_000000383102_00290_48149_7913.N1	16-MAY-2011 01:15:47	Bright	37.500	122	9Alp2Lib	2.7470	9700.0	75	48149	No
17	GOM_NL__2PRFIN20110516_011737_000000403102_00290_48149_7914.N1	16-MAY-2011 01:17:37	Bright	39.500	104	27Bet Lib	2.6140	13100.0	79	48149	No
18	GOM_NL__2PRFIN20110516_011942_000000503102_00290_48149_7915.N1	16-MAY-2011 01:19:42	Bright	50.000	120	1Del Oph	2.7340	3200.0	100	48149	No
19	GOM_NL__2PRFIN20110516_012252_000000443102_00290_48149_7916.N1	16-MAY-2011 01:22:52	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	48149	No
20	GOM_NL__2PRFIN20110516_012828_000000413102_00290_48149_7917.N1	16-MAY-2011 01:28:28	Bright	41.000	83		2.3780	11000.0	82	48149	No
21	GOM_NL__2PRFIN20110516_013136_000000403102_00290_48149_7918.N1	16-MAY-2011 01:31:36	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	48149	No
22	GOM_NL__2PRFIN20110516_014011_000000423102_00290_48149_7919.N1	16-MAY-2011 01:40:11	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	48149	No
23	GOM_NL__2PRFIN20110516_014146_000000393102_00290_48149_7920.N1	16-MAY-2011 01:41:46	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	48149	No
24	GOM_NL__2PRFIN20110516_015105_000000453102_00290_48149_7921.N1	16-MAY-2011 01:51:05	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48149	No
25	GOM_NL__2PRFIN20110516_015442_000000553102_00290_48149_7922.N1	16-MAY-2011 01:54:42	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	48149	No
26	GOM_NL__2PRFIN20110516_020459_000000653102_00290_48149_7923.N1	16-MAY-2011 02:04:59	Twilight	64.500	93	53Bet Peg	2.5200	3100.0	129	48149	No
27	GOM_NL__2PRFIN20110516_020805_000000423102_00290_48149_7924.N1	16-MAY-2011 02:08:05	Twilight	41.500	140	88Gam Peg	2.8340	26000.0	83	48149	No
28	GOM_NL__2PRFIN20110516_020944_000000543102_00290_48149_7925.N1	16-MAY-2011 02:09:44	Dark	53.500	90	54Alp Peg	2.4870	11000.0	107	48149	No
29	GOM_NL__2PRFIN20110516_022323_000000503102_00290_48149_7926.N1	16-MAY-2011 02:23:23	Dark	50.000	18	24Alp PsA	1.1660	9700.0	100	48149	No
30	GOM_NL__2PRFIN20110516_022741_000000583102_00290_48149_7927.N1	16-MAY-2011 02:27:41	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	48149	No
31	GOM_NL__2PRFIN20110516_022911_000000473102_00290_48149_7928.N1	16-MAY-2011 02:29:11	Dark	46.500	31	Alp Gru	1.7340	15200.0	93	48149	No
32	GOM_NL__2PRFIN20110516_023443_000000433102_00291_48150_8577.N1	16-MAY-2011 02:34:43	Dark	42.500	45	Alp Pav	1.9400	26000.0	85	48150	No
33	GOM_NL__2PRFIN20110516_024151_000000473102_00291_48150_8578.N1	16-MAY-2011 02:41:51	Straylight	47.000	141	Bet Ara	2.8400	4600.0	94	48150	No
34	GOM_NL__2PRFIN20110516_024425_000000543102_00291_48150_8579.N1	16-MAY-2011 02:44:25	Straylight	53.500	40	The Sco	1.8590	7100.0	107	48150	No
35	GOM_NL__2PRFIN20110516_024616_000000543102_00291_48150_8580.N1	16-MAY-2011 02:46:16	Straylight	53.500	25	35Lam Sco	1.6200	28000.0	107	48150	No
36	GOM_NL__2PRFIN20110516_024834_000000553102_00291_48150_8581.N1	16-MAY-2011 02:48:34	Twilight	55.000	75	26Eps Sco	2.2910	4250.0	110	48150	No
37	GOM_NL__2PRFIN20110516_025138_000000623102_00291_48150_8582.N1	16-MAY-2011 02:51:38	Twilight	61.500	16	21Alp Sco	1.0200	3000.0	123	48150	No
38	GOM_NL__2PRFIN20110516_025413_000000453102_00291_48150_8583.N1	16-MAY-2011 02:54:13	Bright	44.500	97	8Bet1Sco	2.5610	30000.0	89	48150	No
39	GOM_NL__2PRFIN20110516_025601_000000393102_00291_48150_8584.N1	16-MAY-2011 02:56:01	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	48150	No
40	GOM_NL__2PRFIN20110516_025751_000000403102_00291_48150_8585.N1	16-MAY-2011 02:57:51	Bright	39.500	104	27Bet Lib	2.6140	13100.0	79	48150	No
41	GOM_NL__2PRFIN20110516_025956_000000503102_00291_48150_8586.N1	16-MAY-2011 02:59:56	Bright	49.500	120	1Del Oph	2.7340	3200.0	99	48150	No
42	GOM_NL__2PRFIN20110516_030306_000000453102_00291_48150_8587.N1	16-MAY-2011 03:03:06	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	48150	No

279	GOM_NL_2PRFIN20110516_204606_000000523102_00301_48160_8618.N1	16-MAY-2011 20:46:06	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	48160	No
280	GOM_NL_2PRFIN20110516_205023_000000523102_00301_48160_8619.N1	16-MAY-2011 20:50:23	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	48160	No
281	GOM_NL_2PRFIN20110516_205153_000000503102_00301_48160_8597.N1	16-MAY-2011 20:51:53	Dark	49.500	31	Alp Gru	1.7340	15200.	99	48160	No
282	GOM_NL_2PRFIN20110516_205724_000000433102_00302_48161_8598.N1	16-MAY-2011 20:57:24	Dark	43.000	45	Alp Pav	1.9400	26000.	86	48161	No
283	GOM_NL_2PRFIN20110516_210430_000000463102_00302_48161_8599.N1	16-MAY-2011 21:04:30	Straylight	46.000	141	Bet Ara	2.8400	4600.0	92	48161	No
284	GOM_NL_2PRFIN20110516_210706_000000503102_00302_48161_8600.N1	16-MAY-2011 21:07:06	Straylight	50.000	40	The Sco	1.8590	7100.0	100	48161	No
285	GOM_NL_2PRFIN20110516_210857_000000553102_00302_48161_8601.N1	16-MAY-2011 21:08:57	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	48161	No
286	GOM_NL_2PRFIN20110516_211113_000000523102_00302_48161_8602.N1	16-MAY-2011 21:11:13	Twi_and_stray	52.000	75	26Eps Sco	2.2910	4250.0	104	48161	No
287	GOM_NL_2PRFIN20110516_211416_000000573102_00302_48161_8603.N1	16-MAY-2011 21:14:16	Twi_and_stray	56.500	16	21Alp Sco	1.0200	3000.0	113	48161	No
288	GOM_NL_2PRFIN20110516_211649_000000453102_00302_48161_8604.N1	16-MAY-2011 21:16:49	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	48161	No
289	GOM_NL_2PRFIN20110516_212026_000000413102_00302_48161_8605.N1	16-MAY-2011 21:20:26	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	48161	No
290	GOM_NL_2PRFIN20110516_212228_000000493102_00302_48161_8606.N1	16-MAY-2011 21:22:28	Bright	48.500	120	1Del Oph	2.7340	3200.0	97	48161	No
291	GOM_NL_2PRFIN20110516_212537_000000433102_00302_48161_8607.N1	16-MAY-2011 21:25:37	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	48161	No
292	GOM_NL_2PRFIN20110516_213114_000000383102_00302_48161_8608.N1	16-MAY-2011 21:31:14	Bright	38.000	83		2.3780	11000.	76	48161	No
293	GOM_NL_2PRFIN20110516_213422_000000373102_00302_48161_8609.N1	16-MAY-2011 21:34:22	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	48161	No
294	GOM_NL_2PRFIN20110516_214254_000000433102_00302_48161_8610.N1	16-MAY-2011 21:42:54	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	48161	No
295	GOM_NL_2PRFIN20110516_214433_000000403102_00302_48161_8611.N1	16-MAY-2011 21:44:33	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	48161	No
296	GOM_NL_2PRFIN20110516_215347_000000443102_00302_48161_8612.N1	16-MAY-2011 21:53:47	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	48161	No
297	GOM_NL_2PRFIN20110516_215707_000000383102_00302_48161_8613.N1	16-MAY-2011 21:57:07	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	48161	No
298	GOM_NL_2PRFIN20110516_215821_000000383102_00302_48161_8614.N1	16-MAY-2011 21:58:21	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	48161	No
299	GOM_NL_2PRFIN20110516_220645_000000483102_00302_48161_8615.N1	16-MAY-2011 22:06:45	Bright	47.500	58	21Alp And	2.0730	11000.	95	48161	No
300	GOM_NL_2PRFIN20110516_221056_000000433102_00302_48161_8616.N1	16-MAY-2011 22:10:56	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	48161	No
301	GOM_NL_2PRFIN20110516_221238_000000553102_00302_48161_8617.N1	16-MAY-2011 22:12:38	Dark	54.500	90	54Alp Peg	2.4870	11000.	109	48161	No
302	GOM_NL_2PRFIN20110516_222621_000000493102_00302_48161_8618.N1	16-MAY-2011 22:26:21	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	48161	No
303	GOM_NL_2PRFIN20110516_223037_000000583102_00302_48161_8619.N1	16-MAY-2011 22:30:37	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	48161	No
304	GOM_NL_2PRFIN20110516_223208_000000423102_00302_48161_8597.N1	16-MAY-2011 22:32:08	Dark	41.500	31	Alp Gru	1.7340	15200.	83	48161	No
305	GOM_NL_2PRFIN20110516_223739_000000423102_00303_48162_8598.N1	16-MAY-2011 22:37:39	Dark	42.000	45	Alp Pav	1.9400	26000.	84	48162	No
306	GOM_NL_2PRFIN20110516_224445_000000483102_00303_48162_8599.N1	16-MAY-2011 22:44:45	Straylight	48.000	141	Bet Ara	2.8400	4600.0	96	48162	No
307	GOM_NL_2PRFIN20110516_224720_000000513102_00303_48162_8600.N1	16-MAY-2011 22:47:20	Straylight	50.500	40	The Sco	1.8590	7100.0	101	48162	No
308	GOM_NL_2PRFIN20110516_224912_000000523102_00303_48162_8601.N1	16-MAY-2011 22:49:12	Straylight	51.500	25	35Lam Sco	1.6200	28000.	103	48162	No
309	GOM_NL_2PRFIN20110516_225128_000000543102_00303_48162_8602.N1	16-MAY-2011 22:51:28	Twi_and_stray	54.000	75	26Eps Sco	2.2910	4250.0	108	48162	No
310	GOM_NL_2PRFIN20110516_225430_000000603102_00303_48162_8603.N1	16-MAY-2011 22:54:30	Twi_and_stray	59.500	16	21Alp Sco	1.0200	3000.0	119	48162	No
311	GOM_NL_2PRFIN20110516_225703_000000453102_00303_48162_8604.N1	16-MAY-2011 22:57:03	Bright	45.000	97	8Bet1Sco	2.5610	30000.	90	48162	No
312	GOM_NL_2PRFIN20110516_230040_000000413102_00303_48162_8605.N1	16-MAY-2011 23:00:40	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	48162	No
313	GOM_NL_2PRFIN20110516_230242_000000493102_00303_48162_8606.N1	16-MAY-2011 23:02:42	Bright	48.500	120	1Del Oph	2.7340	3200.0	97	48162	No
314	GOM_NL_2PRFIN20110516_230551_000000433102_00303_48162_8607.N1	16-MAY-2011 23:05:51	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	48162	No
315	GOM_NL_2PRFIN20110516_231128_000000393102_00303_48162_8608.N1	16-MAY-2011 23:11:28	Bright	38.500	83		2.3780	11000.	77	48162	No
316	GOM_NL_2PRFIN20110516_231436_000000383102_00303_48162_8609.N1	16-MAY-2011 23:14:36	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	48162	No
317	GOM_NL_2PRFIN20110516_232307_000000423102_00303_48162_8610.N1	16-MAY-2011 23:23:07	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	48162	No
318	GOM_NL_2PRFIN20110516_232447_000000353102_00303_48162_8611.N1	16-MAY-2011 23:24:47	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	48162	No
319	GOM_NL_2PRFIN20110516_233401_000000453102_00303_48162_8612.N1	16-MAY-2011 23:34:01	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48162	No
320	GOM_NL_2PRFIN20110516_233721_000000363102_00303_48162_8613.N1	16-MAY-2011 23:37:21	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	48162	No
321	GOM_NL_2PRFIN20110516_233834_000000413102_00303_48162_8614.N1	16-MAY-2011 23:38:34	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	48162	No
322	GOM_NL_2PRFIN20110516_234659_000000473102_00303_48162_8615.N1	16-MAY-2011 23:46:59	Bright	46.500	58	21Alp And	2.0730	11000.	93	48162	No
323	GOM_NL_2PRFIN20110516_235111_000000443102_00303_48162_8616.N1	16-MAY-2011 23:51:11	Twilight	43.500	140	88Gam Peg	2.8340	26000.	87	48162	No
324	GOM_NL_2PRFIN20110516_235253_000000523102_00303_48162_8617.N1	16-MAY-2011 23:52:53	Dark	52.000	90	54Alp Peg	2.4870	11000.	104	48162	No

3. Quality information per product

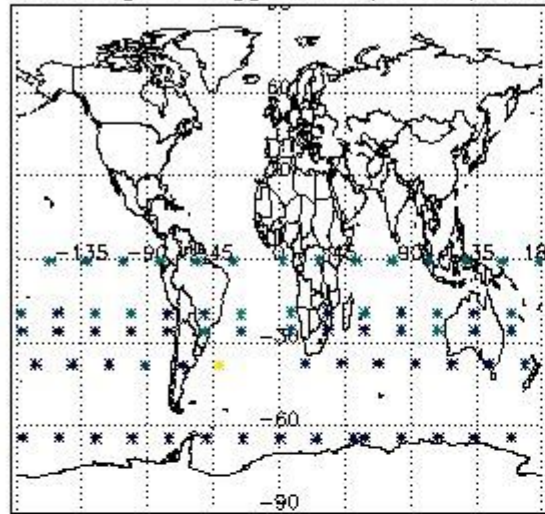
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

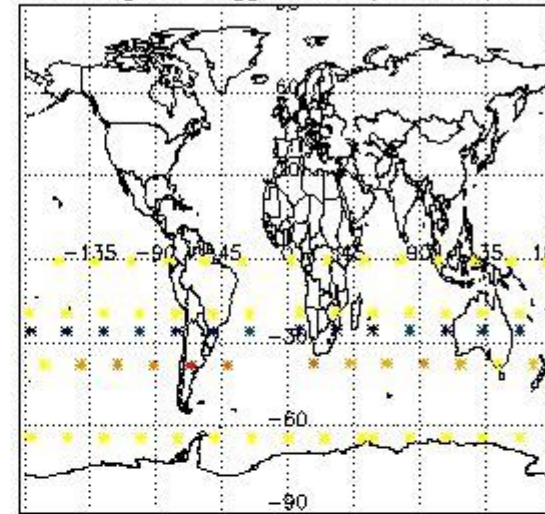


3.2 Plot quality information per product (world map)

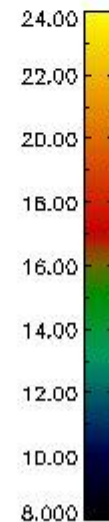
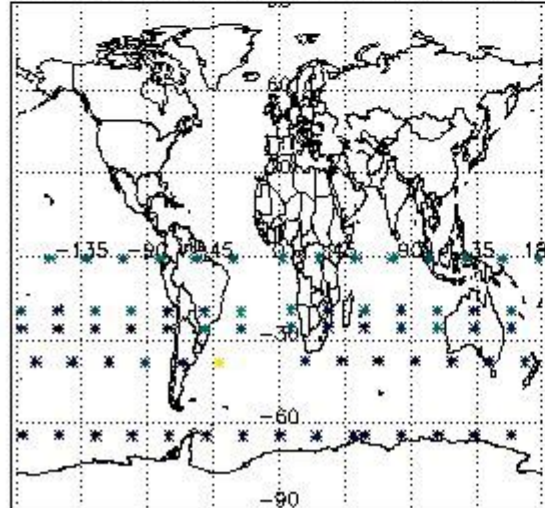
Percentage of flagged data per O3 profile



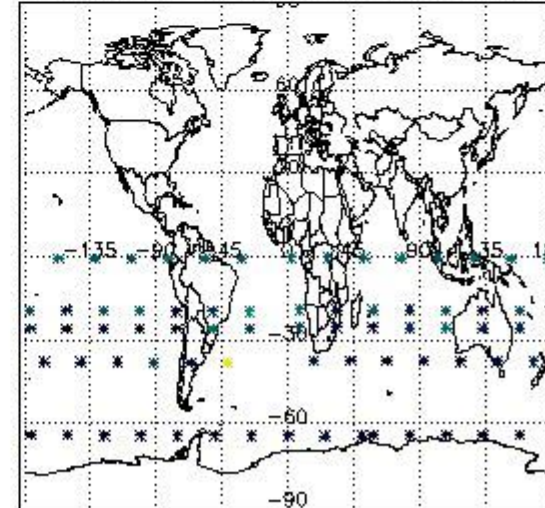
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

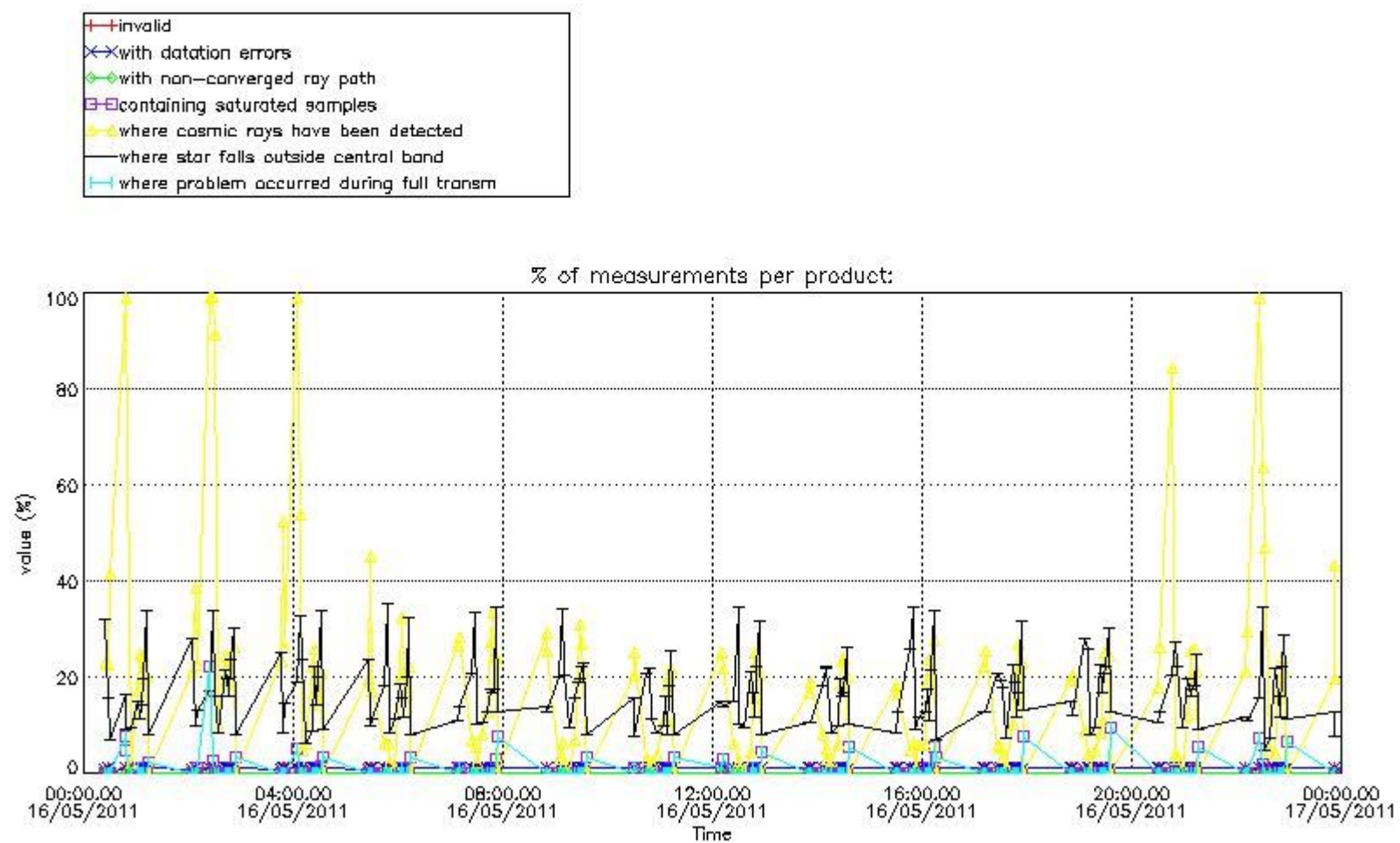


4. Level 1 quality information per product

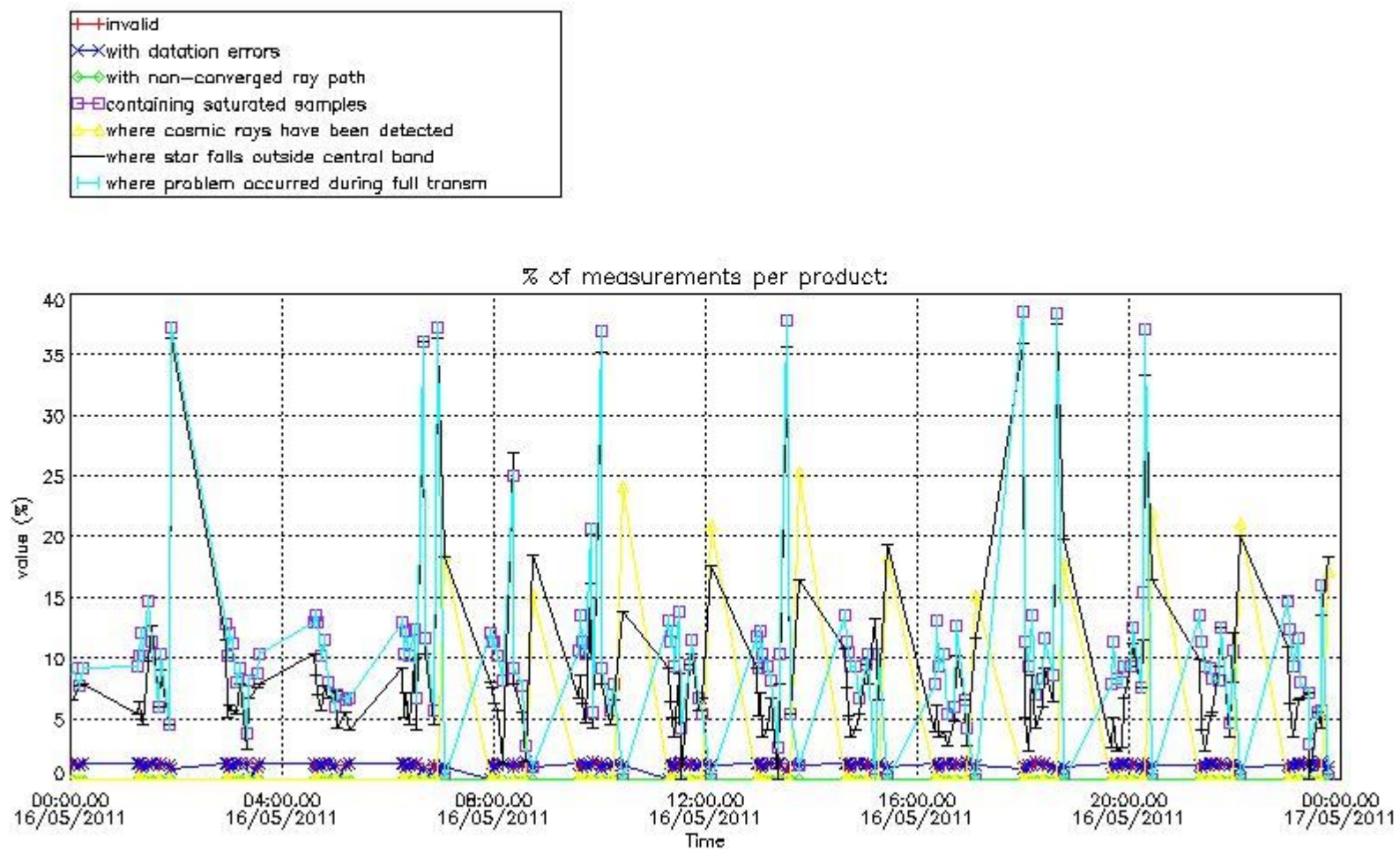
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

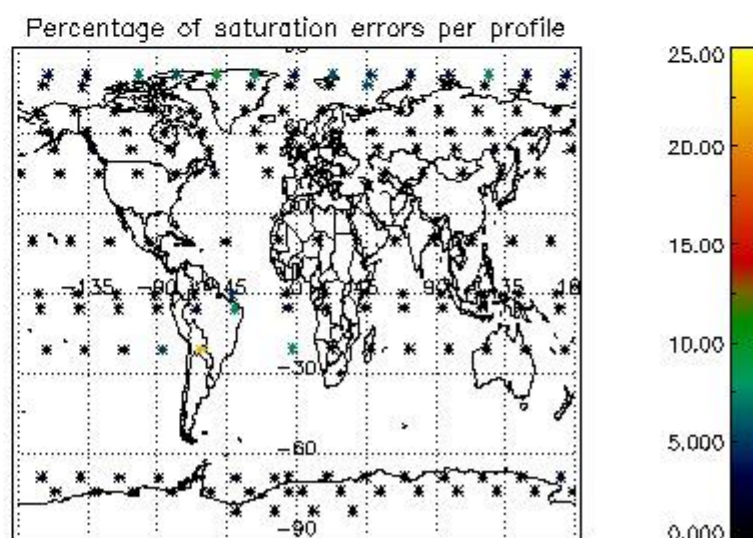
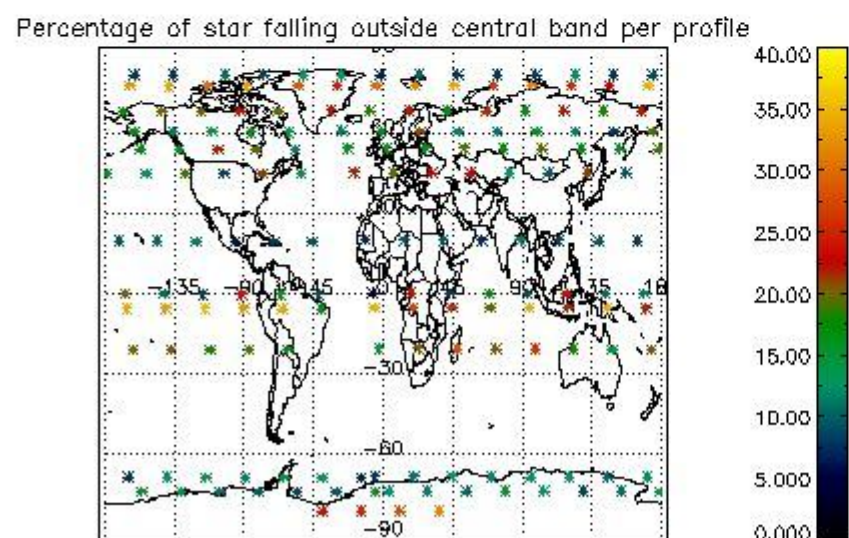
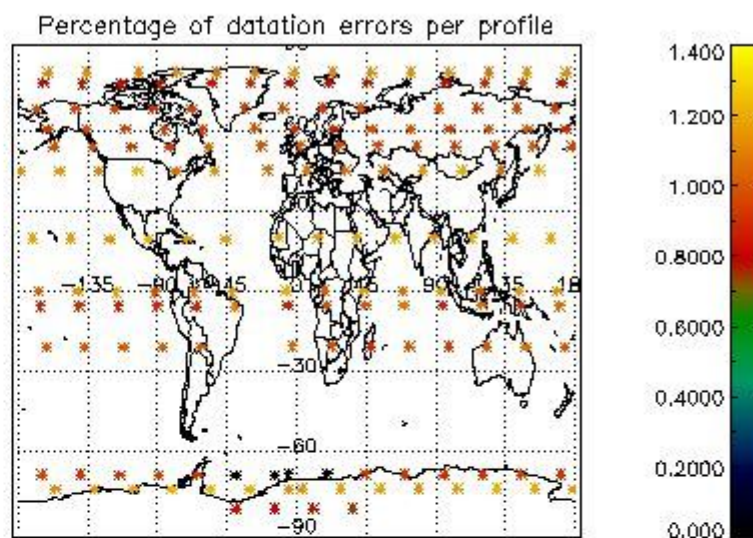
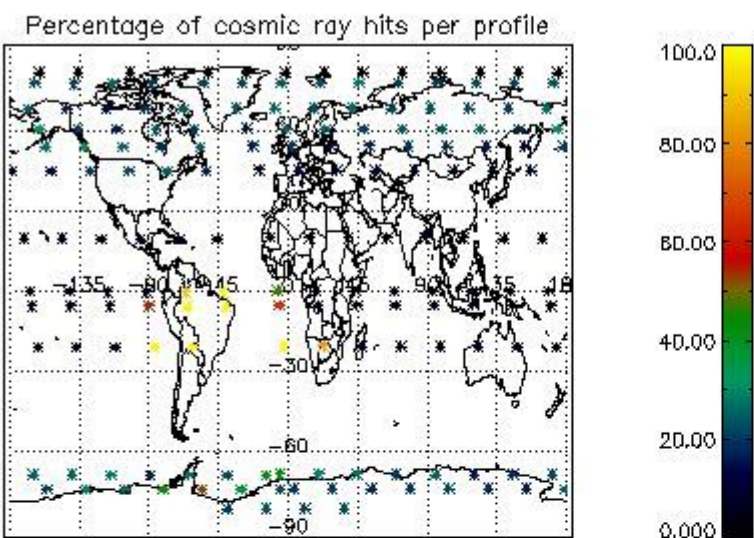


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

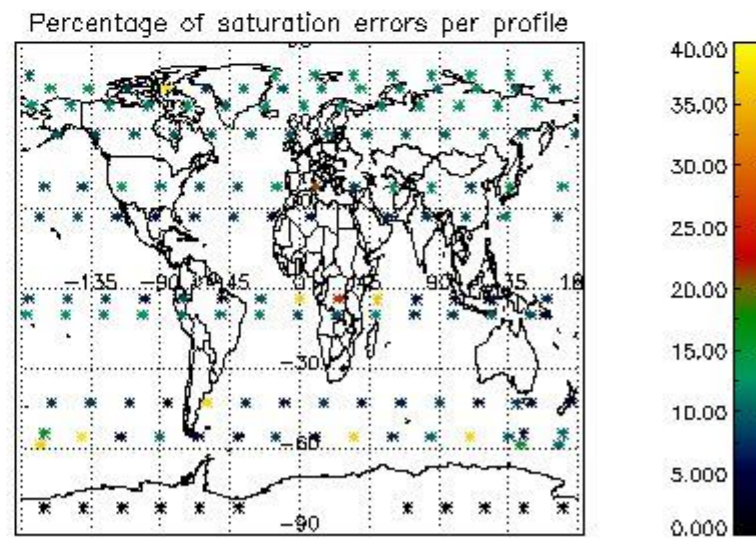
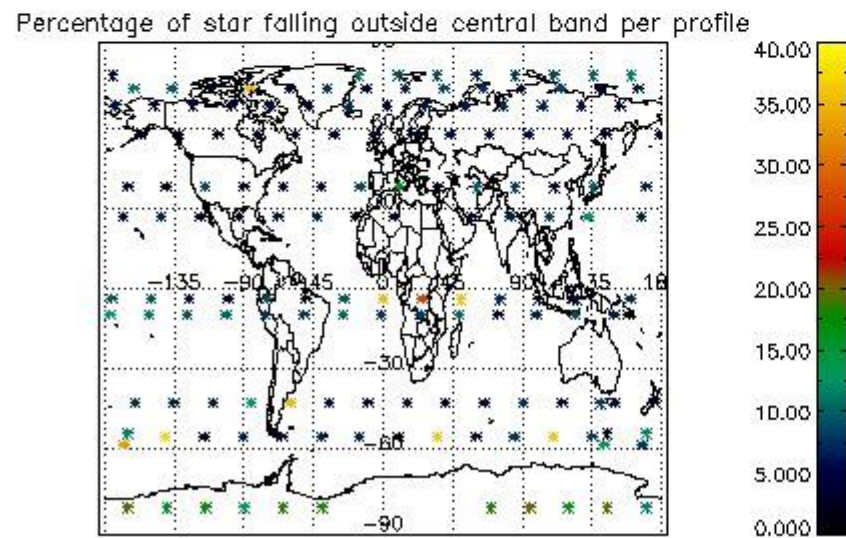
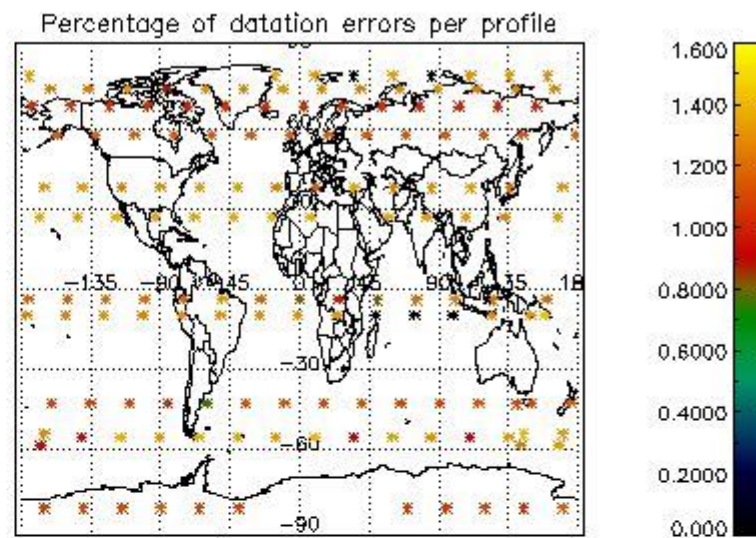
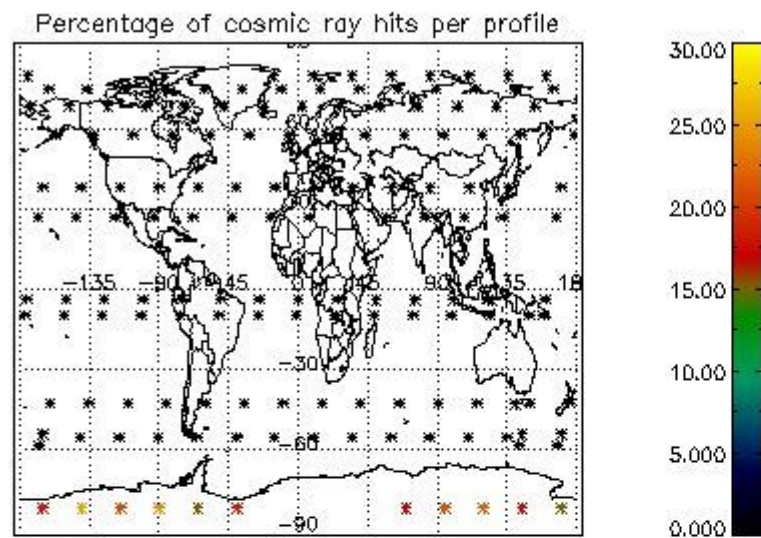


4.2 Plot quality information per product coming from level 1b processing (world map)

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

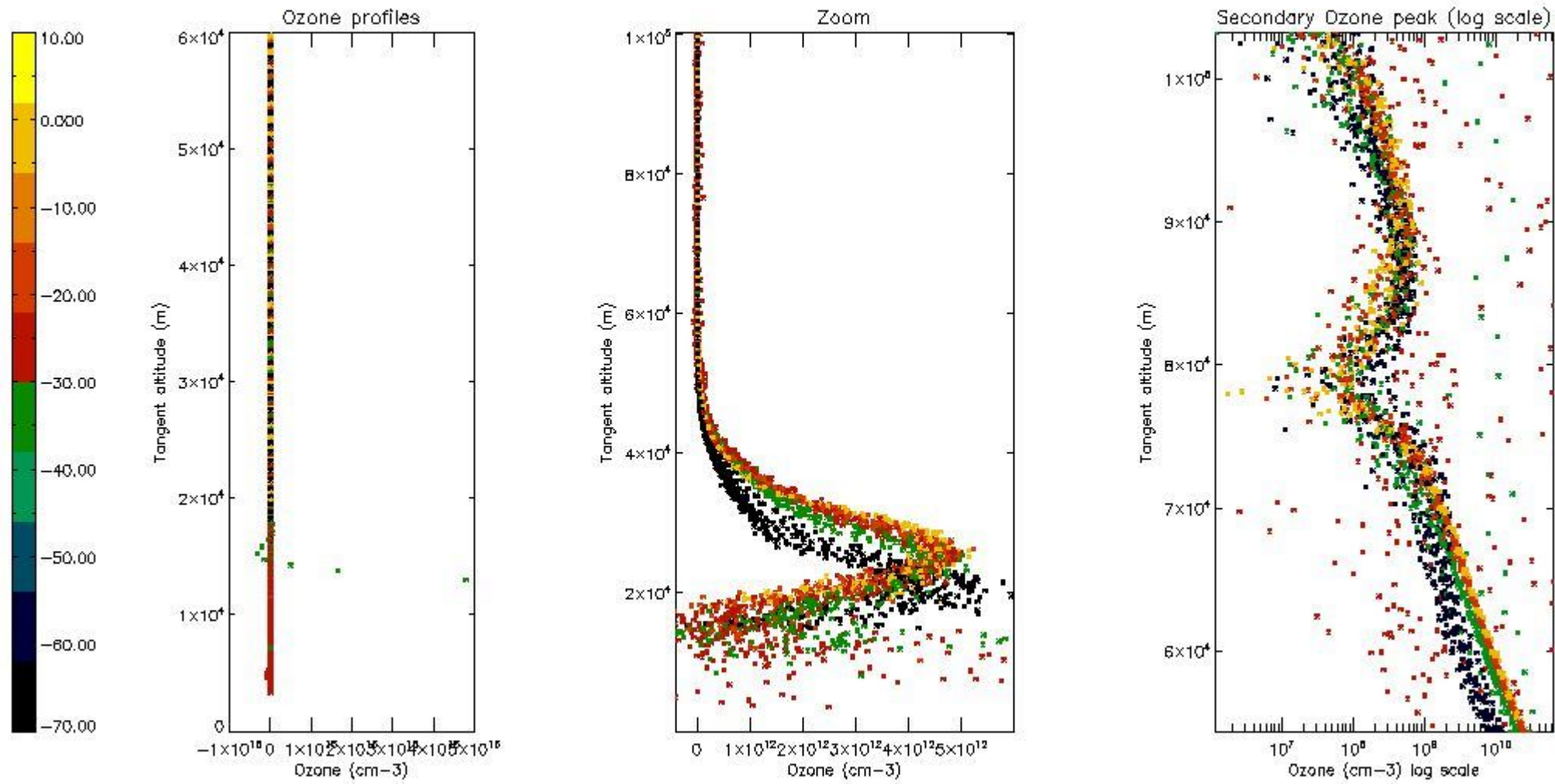
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	12

STD < 10	9
STD < 5	5

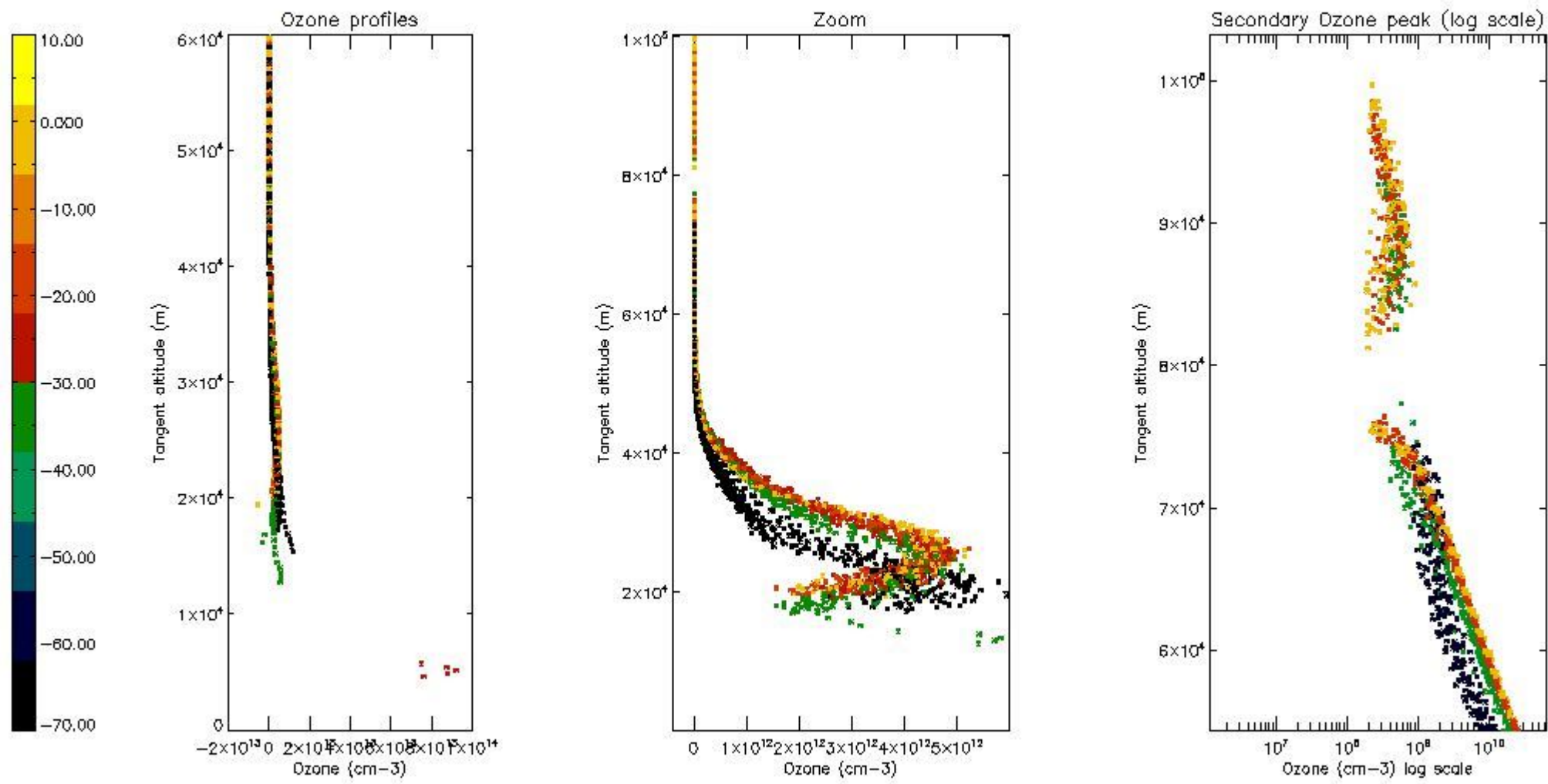
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



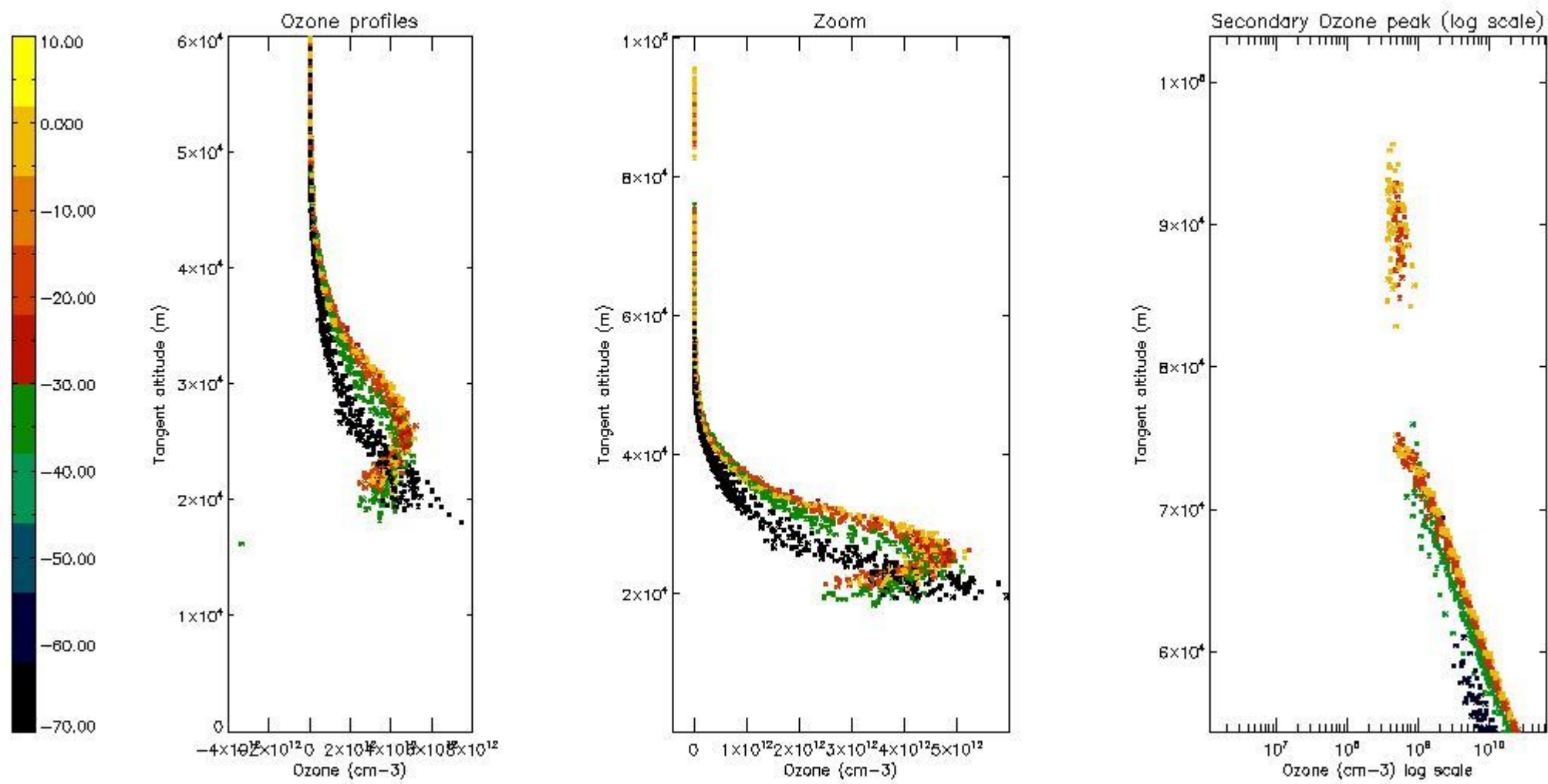
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



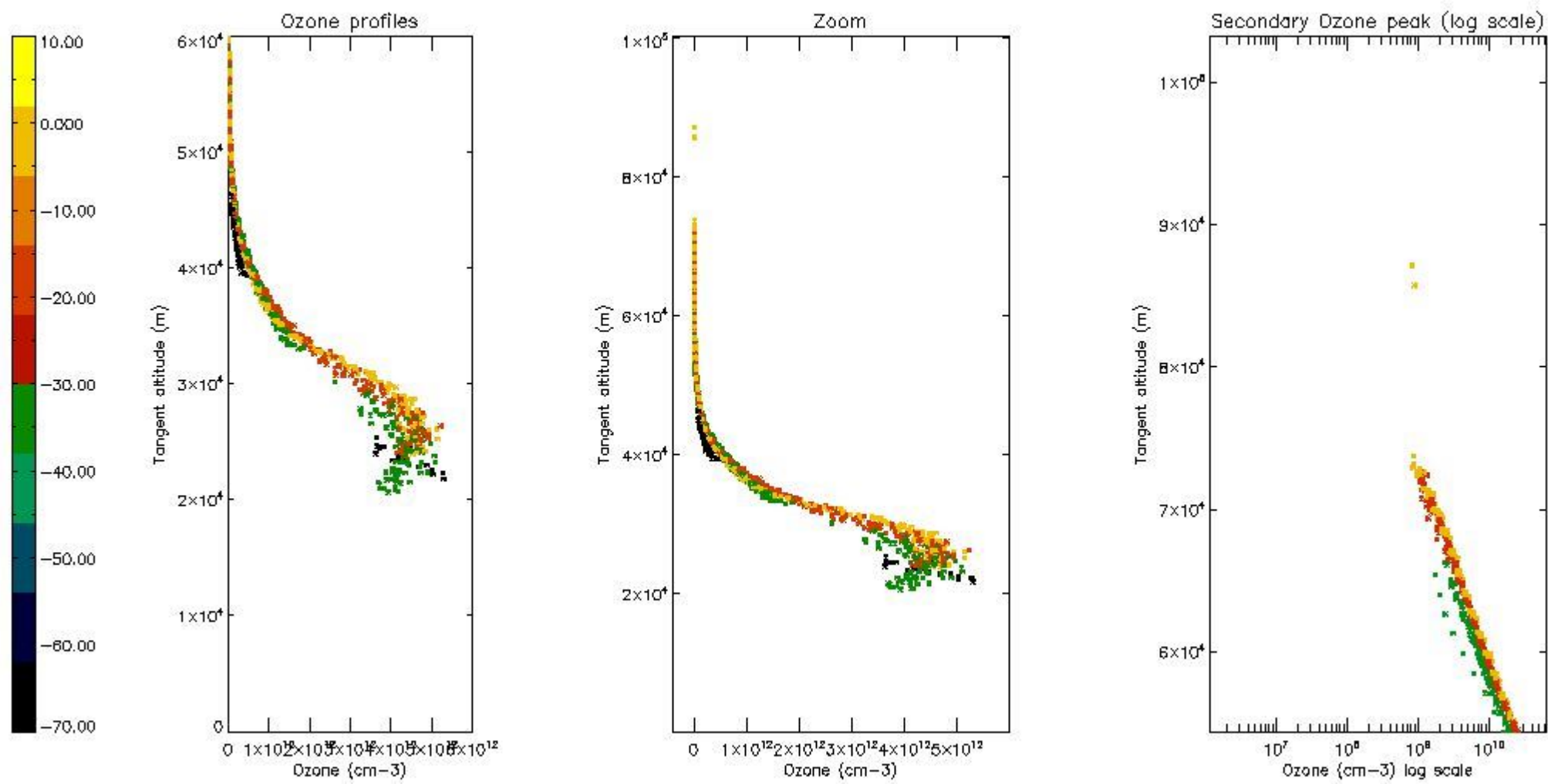
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



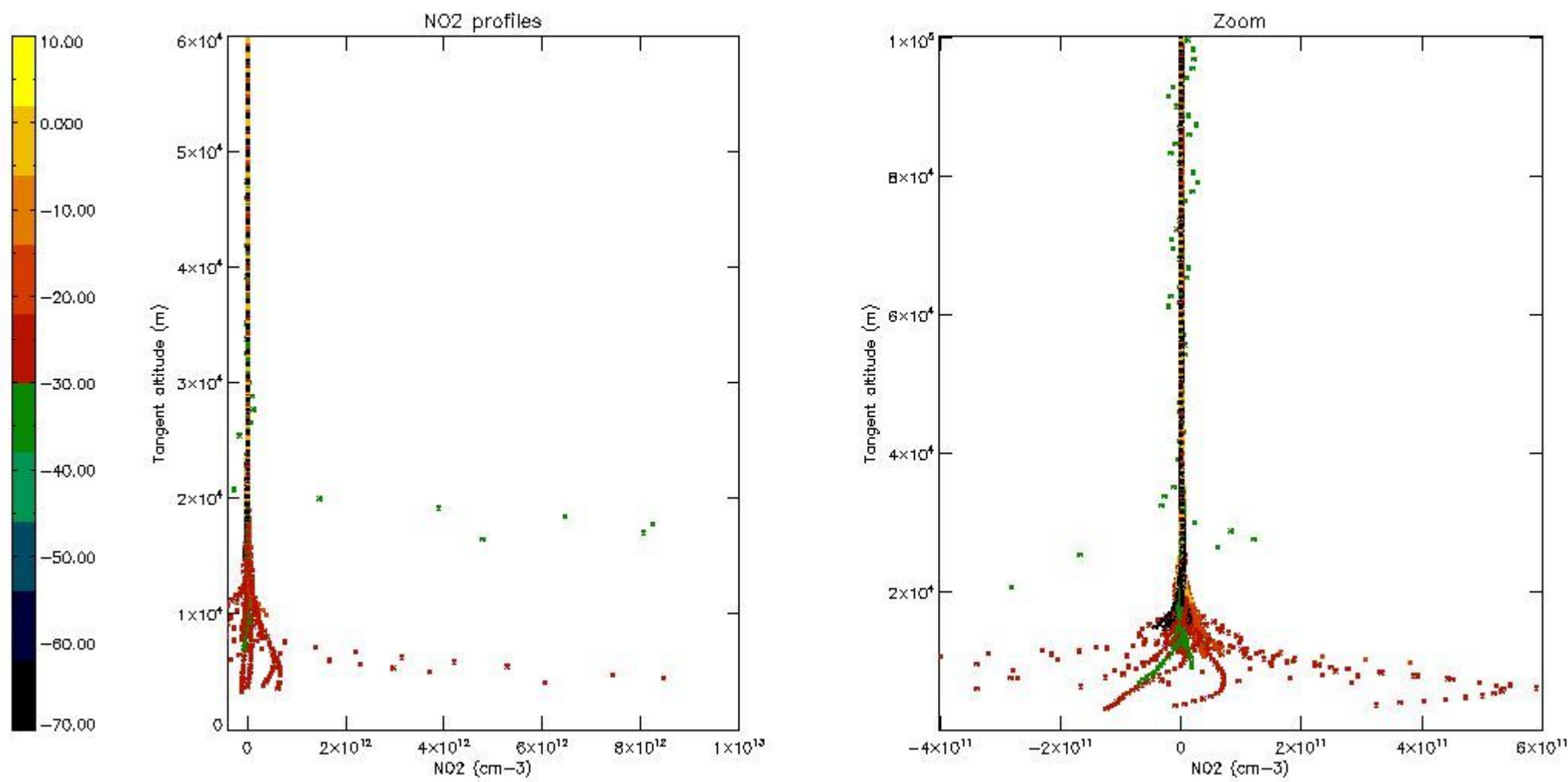
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



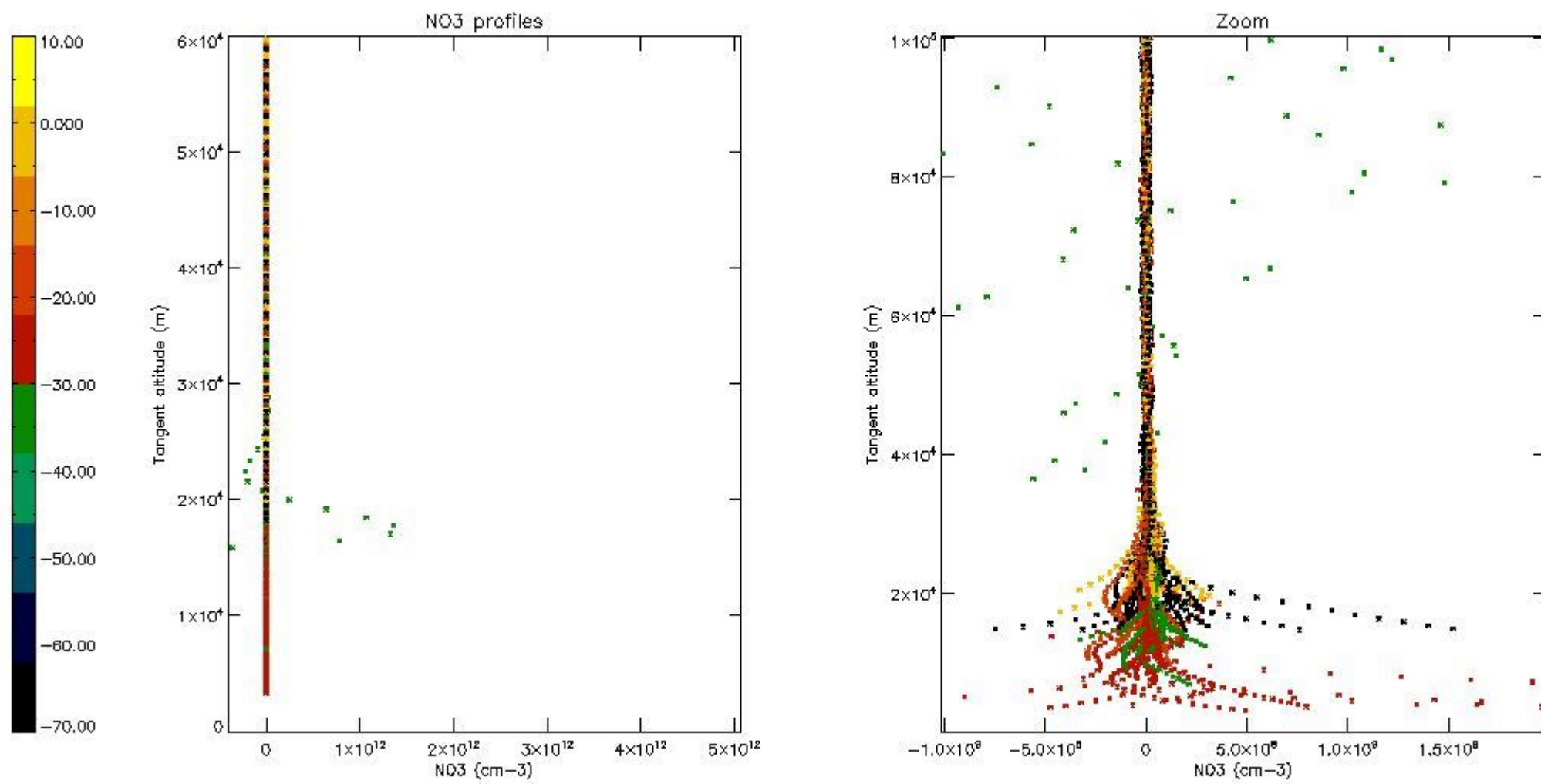
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



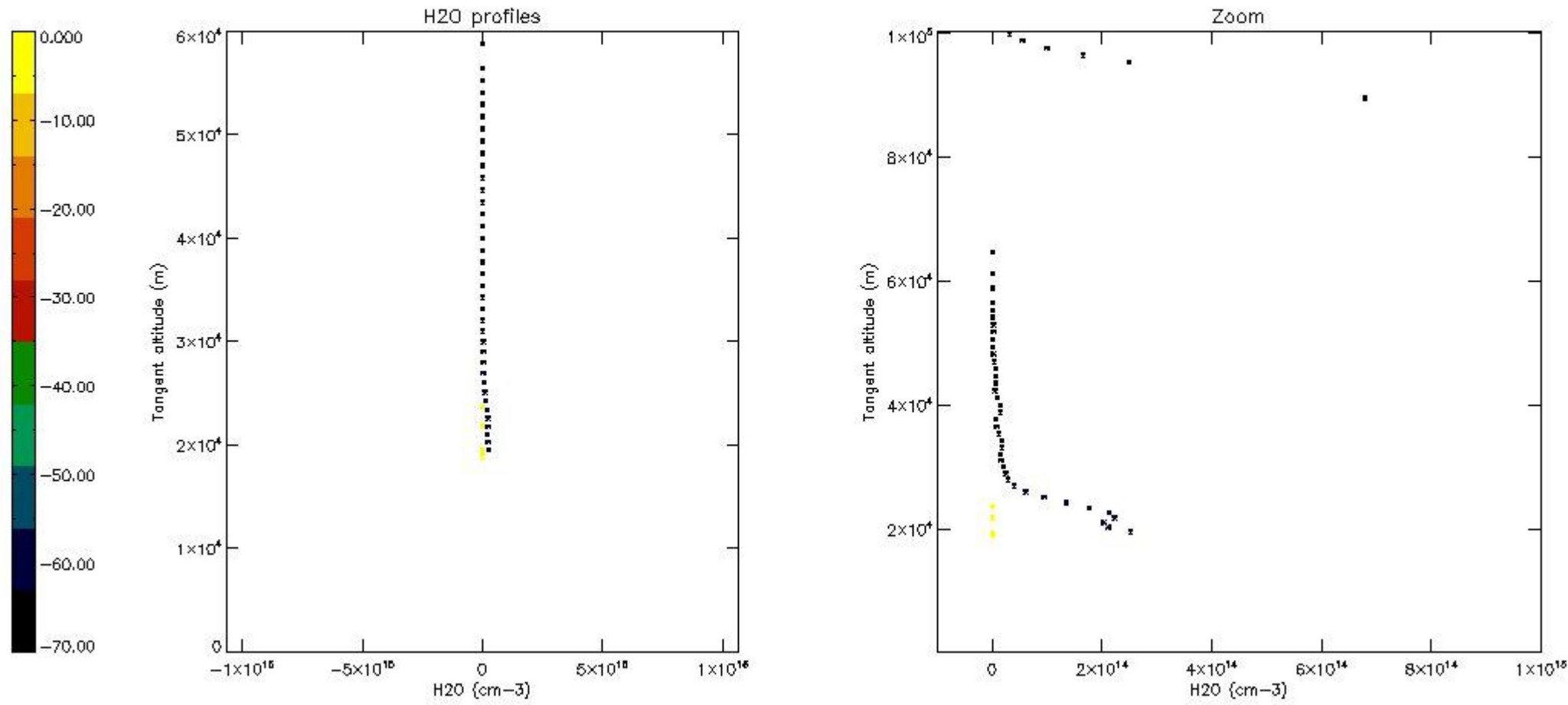
5.7 Plot NO3 profiles for all STD (dark without errors)

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	16-MAY-2011 00:01:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-MAY-2011 00:01:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-MAY-2011 00:01:32

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

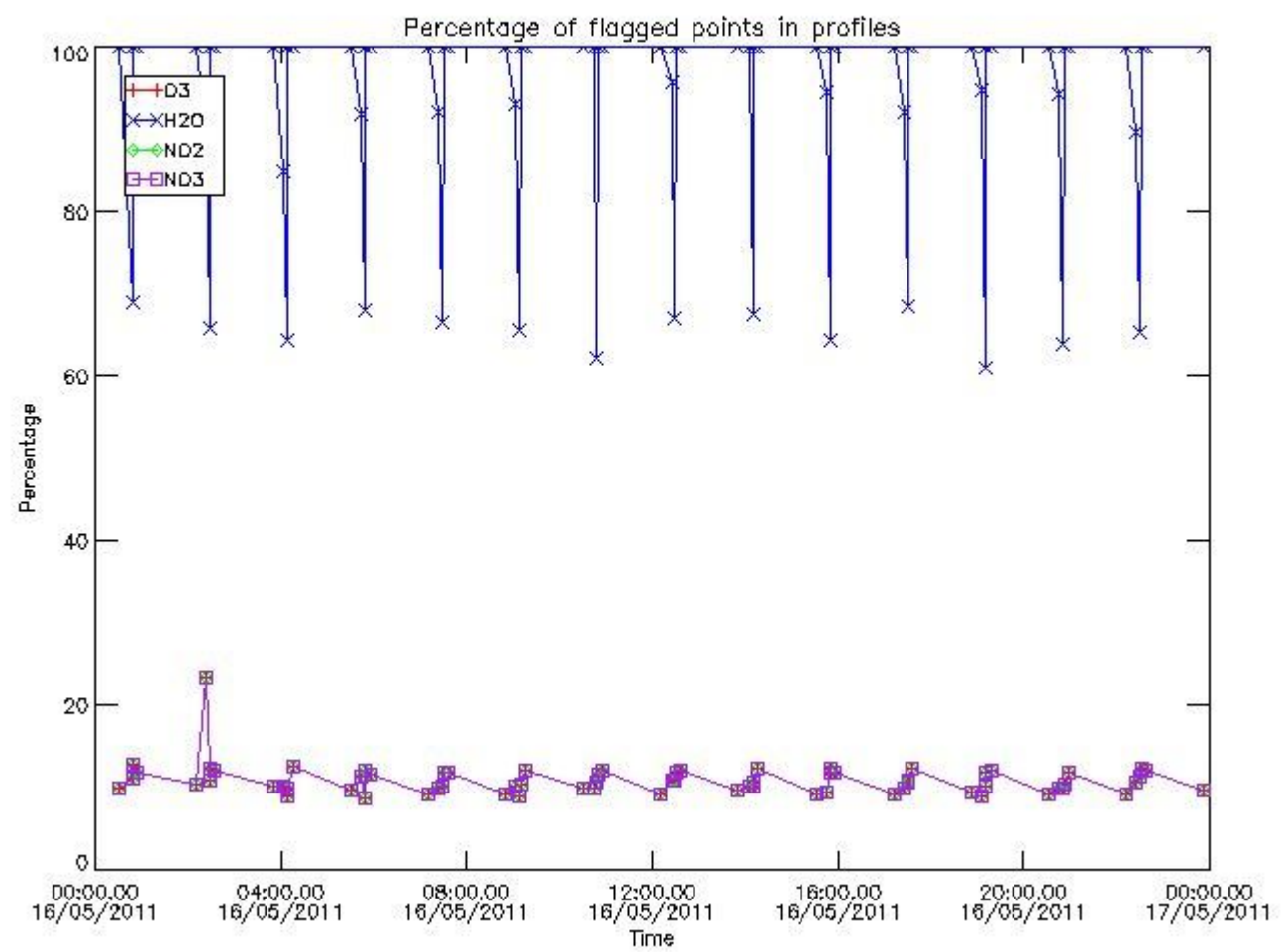
[6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	24APR2013 13:40:47
Data source version	GOMOS/6.01
Start time of products	16-05-2011 (16MAY2011 00:00:00)
Stop time of products	17-05-2011 (17MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
Nb of prods with errors	0

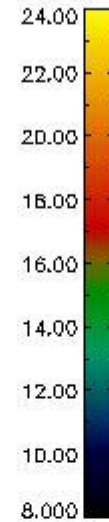
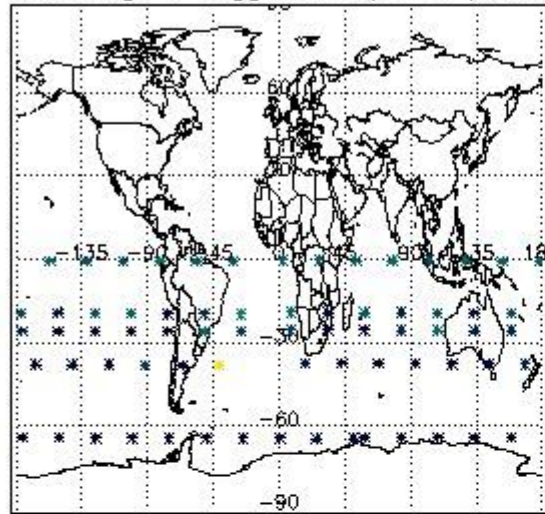
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110516_000132_000000383102_00289_48148_7912.N1	16-MAY-2011 00:01:32	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	48148	No
2	GOM_NL__2PRFIN20110516_001051_000000463102_00289_48148_7913.N1	16-MAY-2011 00:10:51	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48148	No
3	GOM_NL__2PRFIN20110516_001428_000000393102_00289_48148_7914.N1	16-MAY-2011 00:14:28	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	48148	No
4	GOM_NL__2PRFIN20110516_002445_000000683102_00289_48148_7915.N1	16-MAY-2011 00:24:45	Twilight	67.500	93	53Bet Peg	2.5200	3100.0	135	48148	No
5	GOM_NL__2PRFIN20110516_002751_000000453102_00289_48148_7916.N1	16-MAY-2011 00:27:51	Twilight	44.500	140	88Gam Peg	2.8340	26000.	89	48148	No
6	GOM_NL__2PRFIN20110516_002929_000000513102_00289_48148_7917.N1	16-MAY-2011 00:29:29	Dark	50.500	90	54Alp Peg	2.4870	11000.	101	48148	No
7	GOM_NL__2PRFIN20110516_004727_000000463102_00289_48148_7918.N1	16-MAY-2011 00:47:27	Dark	45.500	63	Bet Gru	2.1500	2800.0	91	48148	No
8	GOM_NL__2PRFIN20110516_004856_000000443102_00289_48148_7919.N1	16-MAY-2011 00:48:56	Dark	43.500	31	Alp Gru	1.7340	15200.	87	48148	No
9	GOM_NL__2PRFIN20110516_005428_000000433102_00290_48149_7906.N1	16-MAY-2011 00:54:28	Dark	43.000	45	Alp Pav	1.9400	26000.	86	48149	No
10	GOM_NL__2PRFIN20110516_010136_000000443102_00290_48149_7907.N1	16-MAY-2011 01:01:36	Straylight	44.000	141	Bet Ara	2.8400	4600.0	88	48149	No
11	GOM_NL__2PRFIN20110516_010410_000000493102_00290_48149_7908.N1	16-MAY-2011 01:04:10	Straylight	48.500	40	The Sco	1.8590	7100.0	97	48149	No
12	GOM_NL__2PRFIN20110516_010601_000000543102_00290_48149_7909.N1	16-MAY-2011 01:06:01	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	48149	No
13	GOM_NL__2PRFIN20110516_010820_000000533102_00290_48149_7910.N1	16-MAY-2011 01:08:20	Twilight	53.000	75	26Eps Sco	2.2910	4250.0	106	48149	No
14	GOM_NL__2PRFIN20110516_011124_000000653102_00290_48149_7911.N1	16-MAY-2011 01:11:24	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	48149	No
15	GOM_NL__2PRFIN20110516_011358_000000453102_00290_48149_7912.N1	16-MAY-2011 01:13:58	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	48149	No
16	GOM_NL__2PRFIN20110516_011547_000000383102_00290_48149_7913.N1	16-MAY-2011 01:15:47	Bright	37.500	122	9Alp2Lib	2.7470	9700.0	75	48149	No
17	GOM_NL__2PRFIN20110516_011737_000000403102_00290_48149_7914.N1	16-MAY-2011 01:17:37	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	48149	No
18	GOM_NL__2PRFIN20110516_011942_000000503102_00290_48149_7915.N1	16-MAY-2011 01:19:42	Bright	50.000	120	1Del Oph	2.7340	3200.0	100	48149	No
19	GOM_NL__2PRFIN20110516_012252_000000443102_00290_48149_7916.N1	16-MAY-2011 01:22:52	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	48149	No
20	GOM_NL__2PRFIN20110516_012828_000000413102_00290_48149_7917.N1	16-MAY-2011 01:28:28	Bright	41.000	83		2.3780	11000.	82	48149	No
21	GOM_NL__2PRFIN20110516_013136_000000403102_00290_48149_7918.N1	16-MAY-2011 01:31:36	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	48149	No
22	GOM_NL__2PRFIN20110516_014011_000000423102_00290_48149_7919.N1	16-MAY-2011 01:40:11	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	48149	No
23	GOM_NL__2PRFIN20110516_014146_000000393102_00290_48149_7920.N1	16-MAY-2011 01:41:46	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	48149	No
24	GOM_NL__2PRFIN20110516_015105_000000453102_00290_48149_7921.N1	16-MAY-2011 01:51:05	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48149	No
25	GOM_NL__2PRFIN20110516_015442_000000553102_00290_48149_7922.N1	16-MAY-2011 01:54:42	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	48149	No
26	GOM_NL__2PRFIN20110516_020459_000000653102_00290_48149_7923.N1	16-MAY-2011 02:04:59	Twilight	64.500	93	53Bet Peg	2.5200	3100.0	129	48149	No
27	GOM_NL__2PRFIN20110516_020805_000000423102_00290_48149_7924.N1	16-MAY-2011 02:08:05	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	48149	No
28	GOM_NL__2PRFIN20110516_020944_000000543102_00290_48149_7925.N1	16-MAY-2011 02:09:44	Dark	53.500	90	54Alp Peg	2.4870	11000.	107	48149	No
29	GOM_NL__2PRFIN20110516_022323_000000503102_00290_48149_7926.N1	16-MAY-2011 02:23:23	Dark	50.000	18	24Alp PsA	1.1660	9700.0	100	48149	No
30	GOM_NL__2PRFIN20110516_022741_000000583102_00290_48149_7927.N1	16-MAY-2011 02:27:41	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	48149	No
31	GOM_NL__2PRFIN20110516_022911_000000473102_00290_48149_7928.N1	16-MAY-2011 02:29:11	Dark	46.500	31	Alp Gru	1.7340	15200.	93	48149	No
32	GOM_NL__2PRFIN20110516_023443_000000433102_00291_48150_8577.N1	16-MAY-2011 02:34:43	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48150	No
33	GOM_NL__2PRFIN20110516_024151_000000473102_00291_48150_8578.N1	16-MAY-2011 02:41:51	Straylight	47.000	141	Bet Ara	2.8400	4600.0	94	48150	No
34	GOM_NL__2PRFIN20110516_024425_000000543102_00291_48150_8579.N1	16-MAY-2011 02:44:25	Straylight	53.500	40	The Sco	1.8590	7100.0	107	48150	No
35	GOM_NL__2PRFIN20110516_024616_000000543102_00291_48150_8580.N1	16-MAY-2011 02:46:16	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	48150	No
36	GOM_NL__2PRFIN20110516_024834_000000553102_00291_48150_8581.N1	16-MAY-2011 02:48:34	Twilight	55.000	75	26Eps Sco	2.2910	4250.0	110	48150	No
37	GOM_NL__2PRFIN20110516_025138_000000623102_00291_48150_8582.N1	16-MAY-2011 02:51:38	Twilight	61.500	16	21Alp Sco	1.0200	3000.0	123	48150	No
38	GOM_NL__2PRFIN20110516_025413_000000453102_00291_48150_8583.N1	16-MAY-2011 02:54:13	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	48150	No
39	GOM_NL__2PRFIN20110516_025601_000000393102_00291_48150_8584.N1	16-MAY-2011 02:56:01	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	48150	No
40	GOM_NL__2PRFIN20110516_025751_000000403102_00291_48150_8585.N1	16-MAY-2011 02:57:51	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	48150	No
41	GOM_NL__2PRFIN20110516_025956_000000503102_00291_48150_8586.N1	16-MAY-2011 02:59:56	Bright	49.500	120	1Del Oph	2.7340	3200.0	99	48150	No
42	GOM_NL__2PRFIN20110516_030306_000000453102_00291_48150_8587.N1	16-MAY-2011 03:03:06	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	48150	No

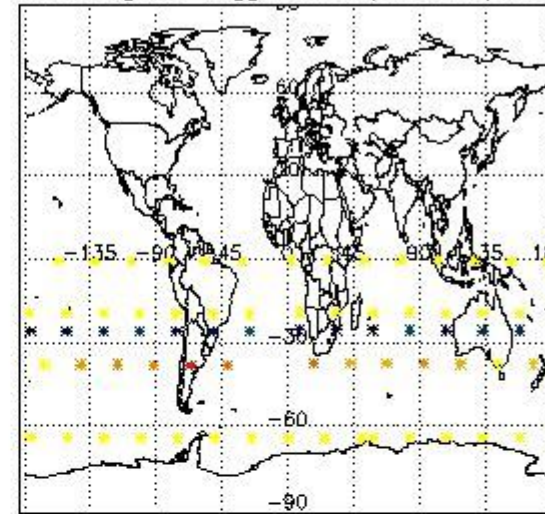


3.2 Plot quality information per product (world map)

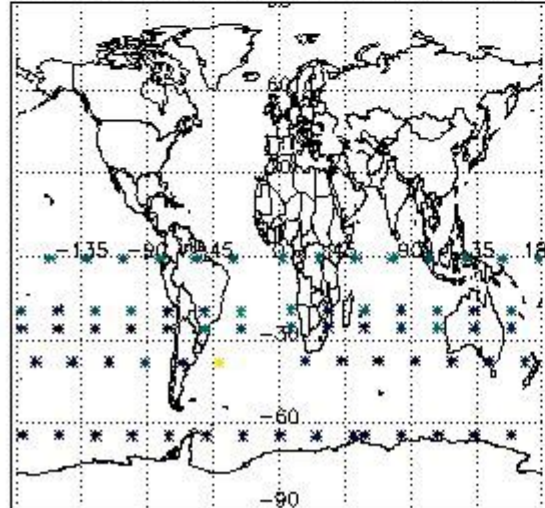
Percentage of flagged data per O3 profile



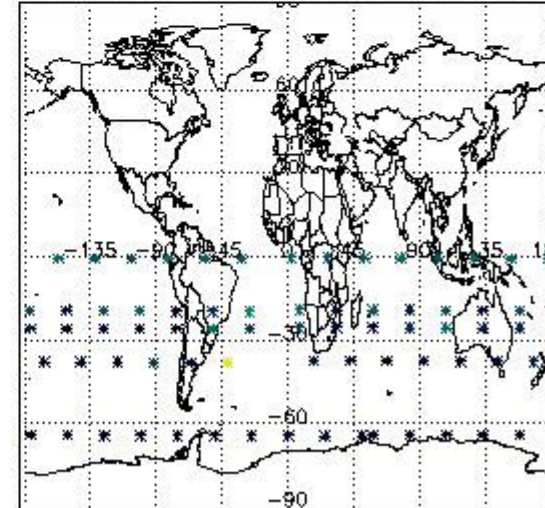
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

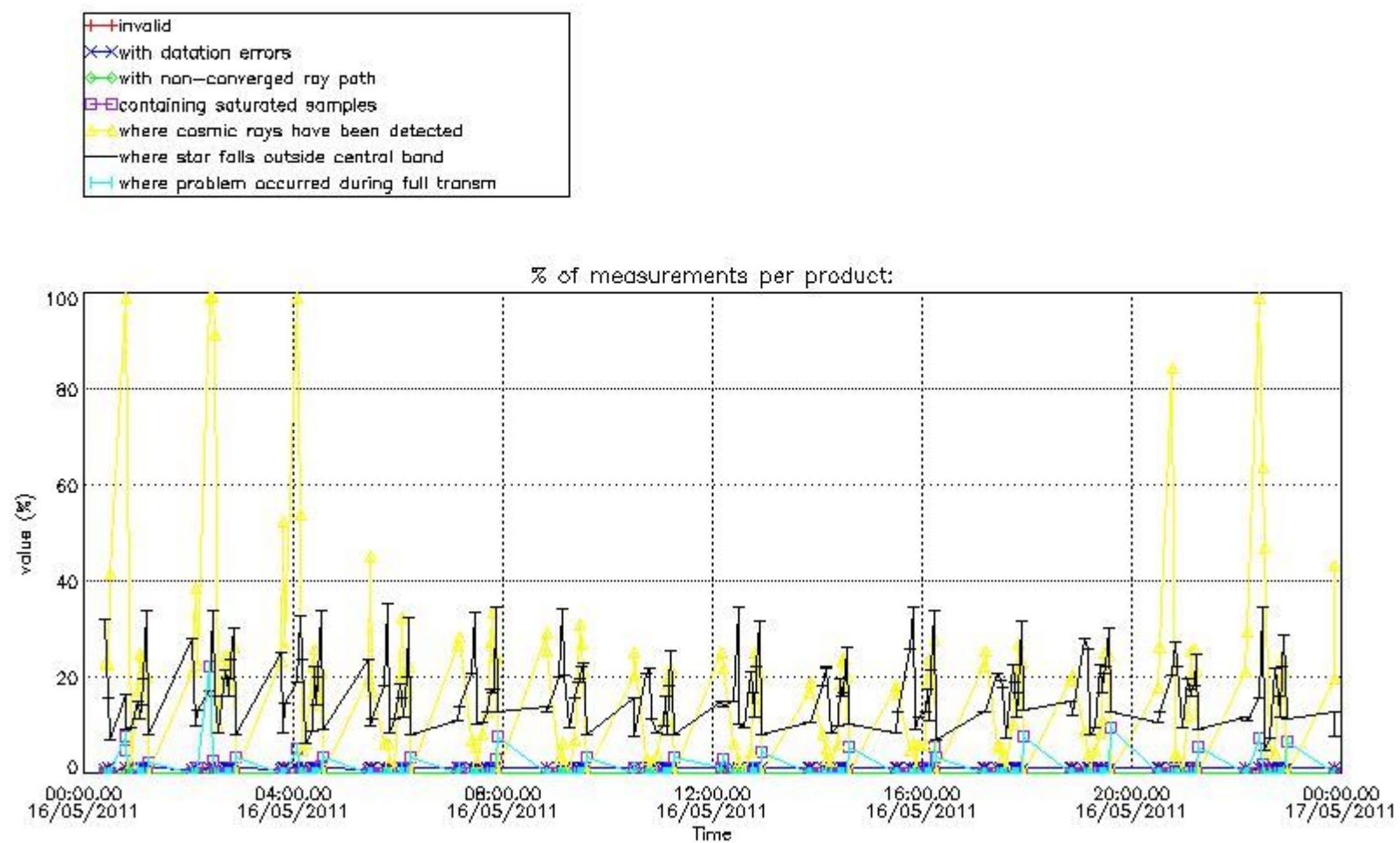


4. Level 1 quality information per product

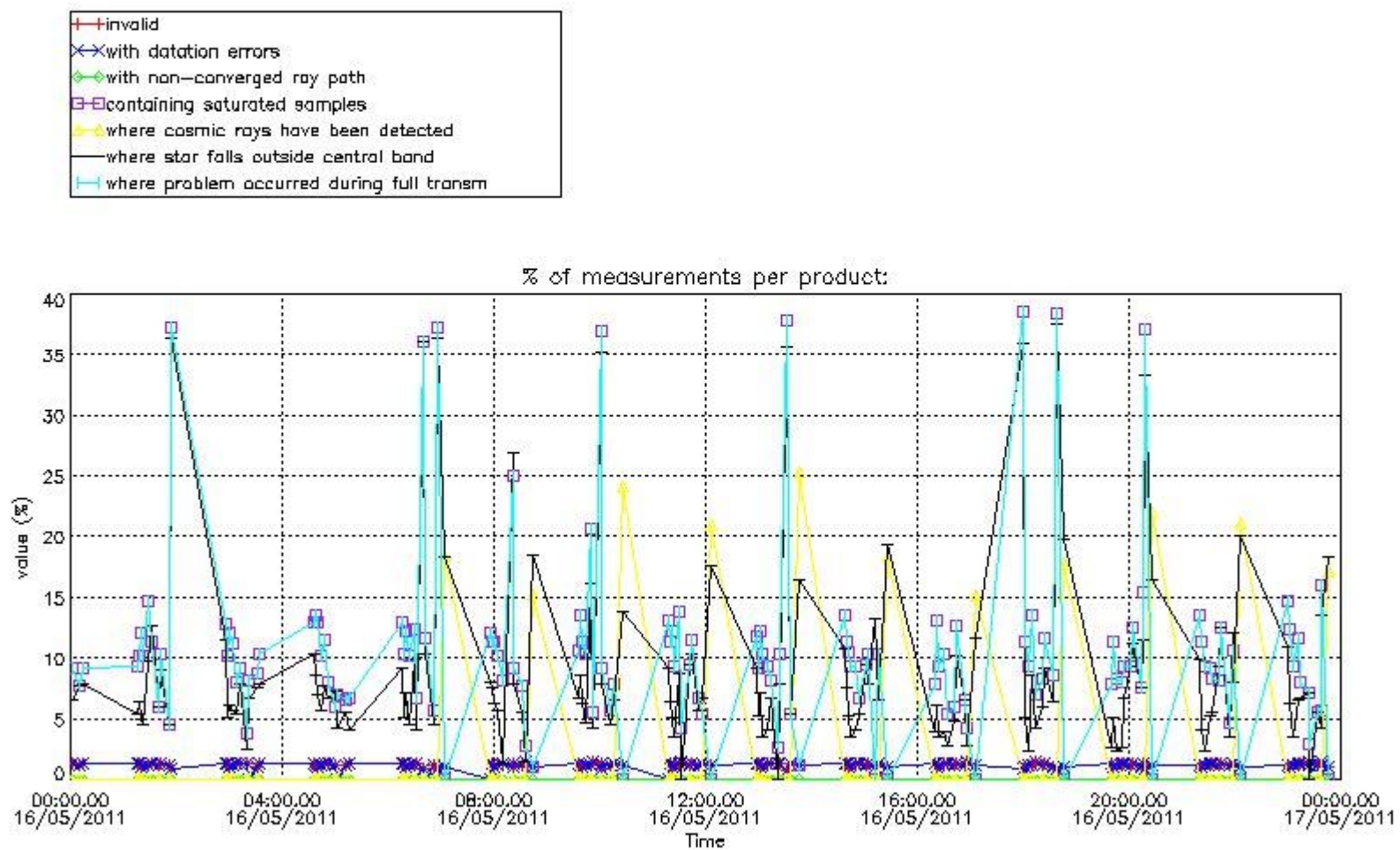
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

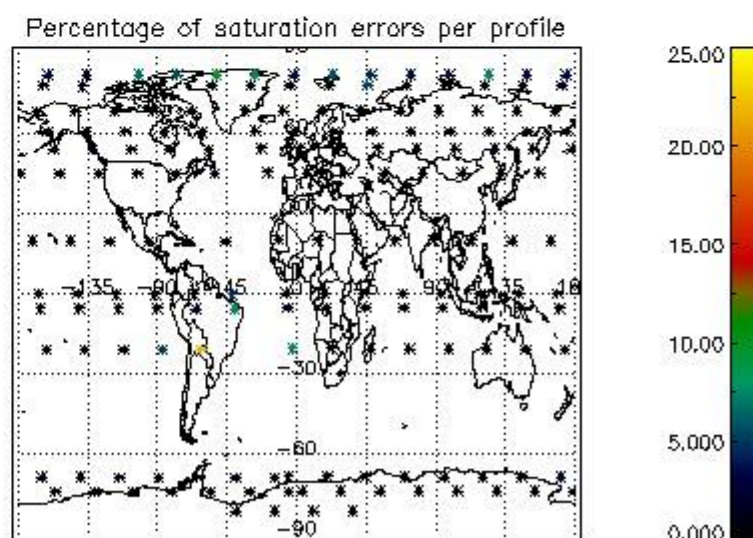
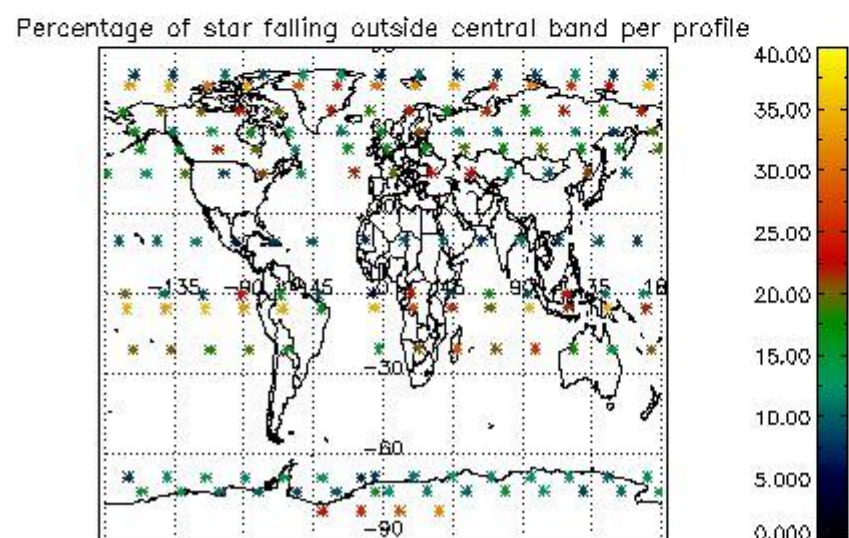
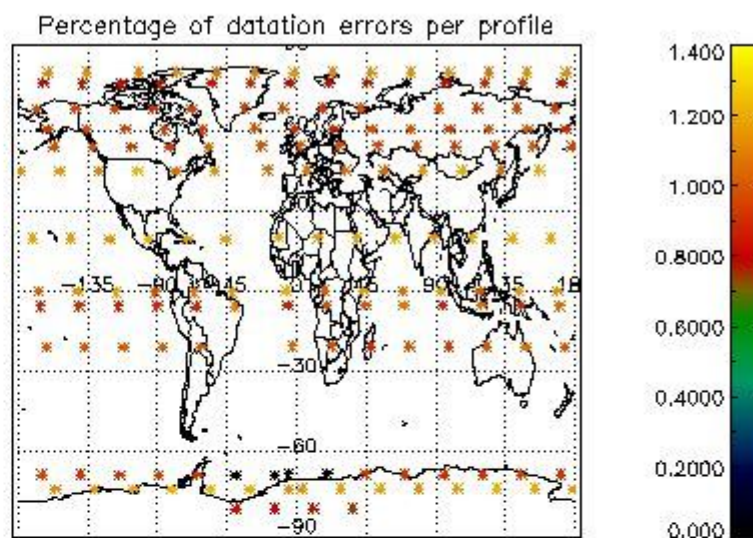
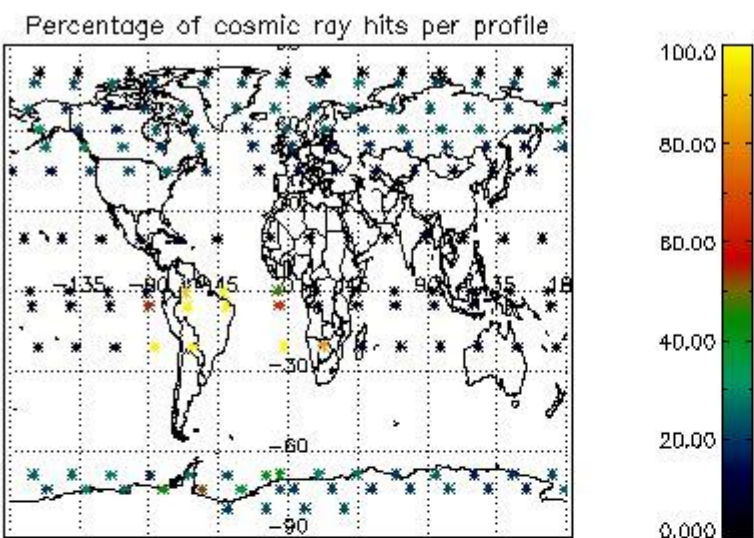


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

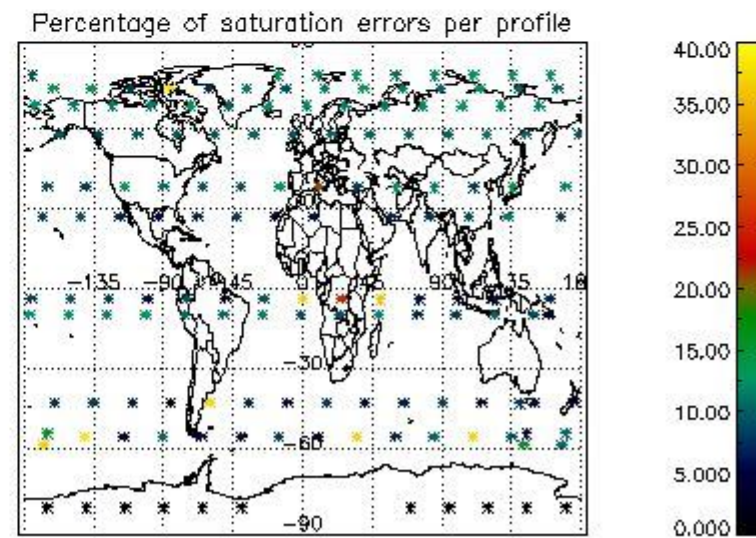
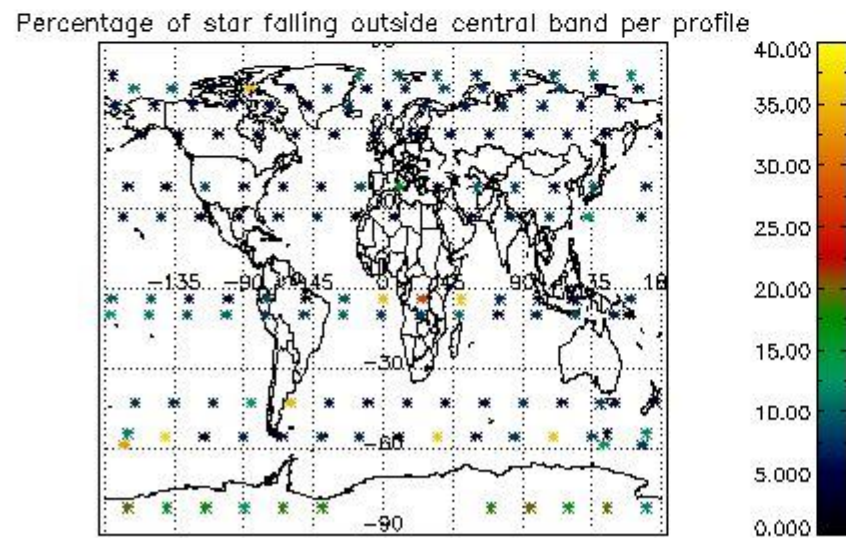
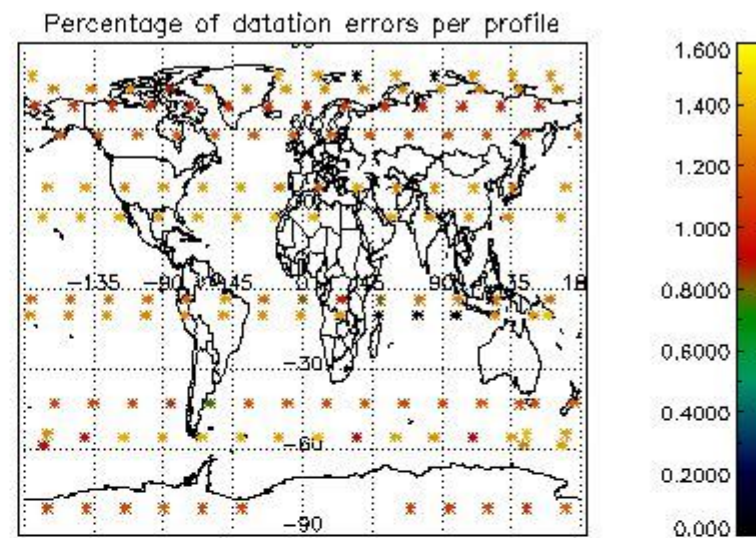
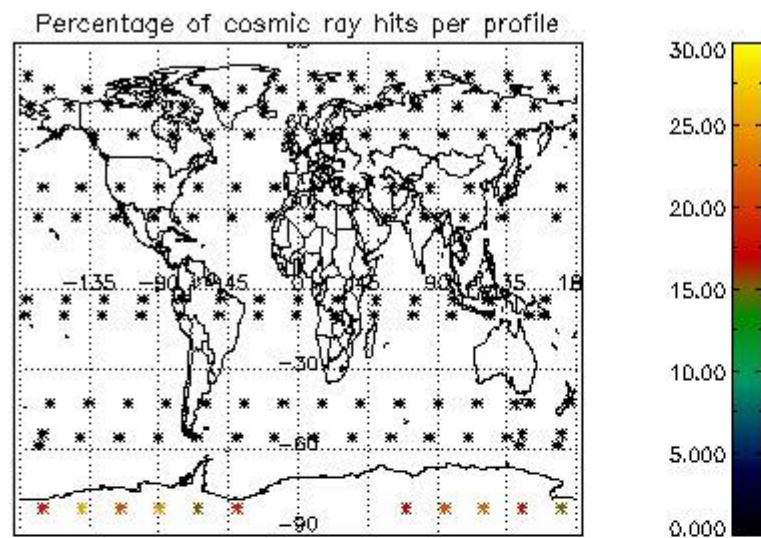


4.2 Plot quality information per product coming from level 1b processing (world map)

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

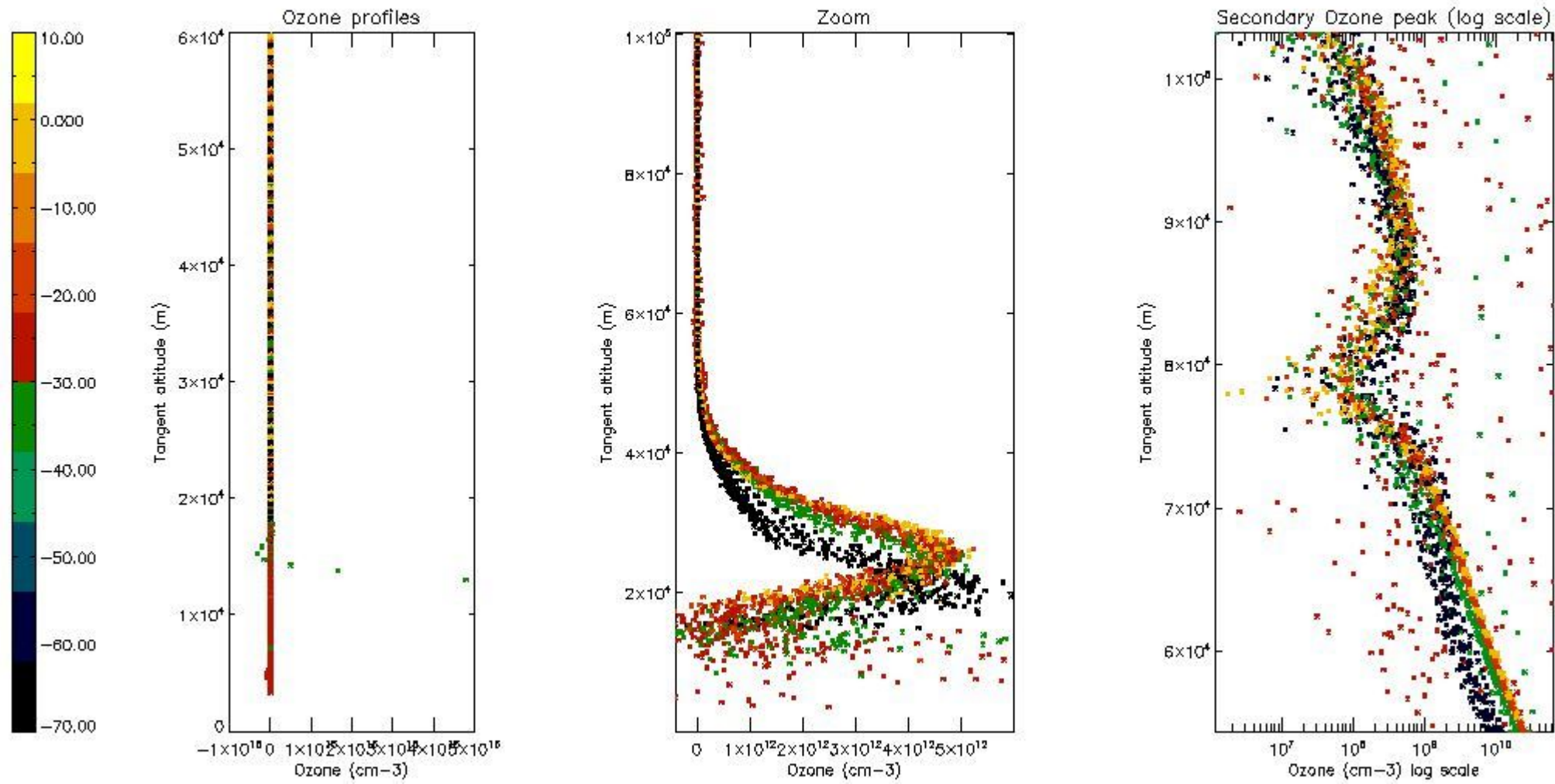
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	12

STD < 10	9
STD < 5	5

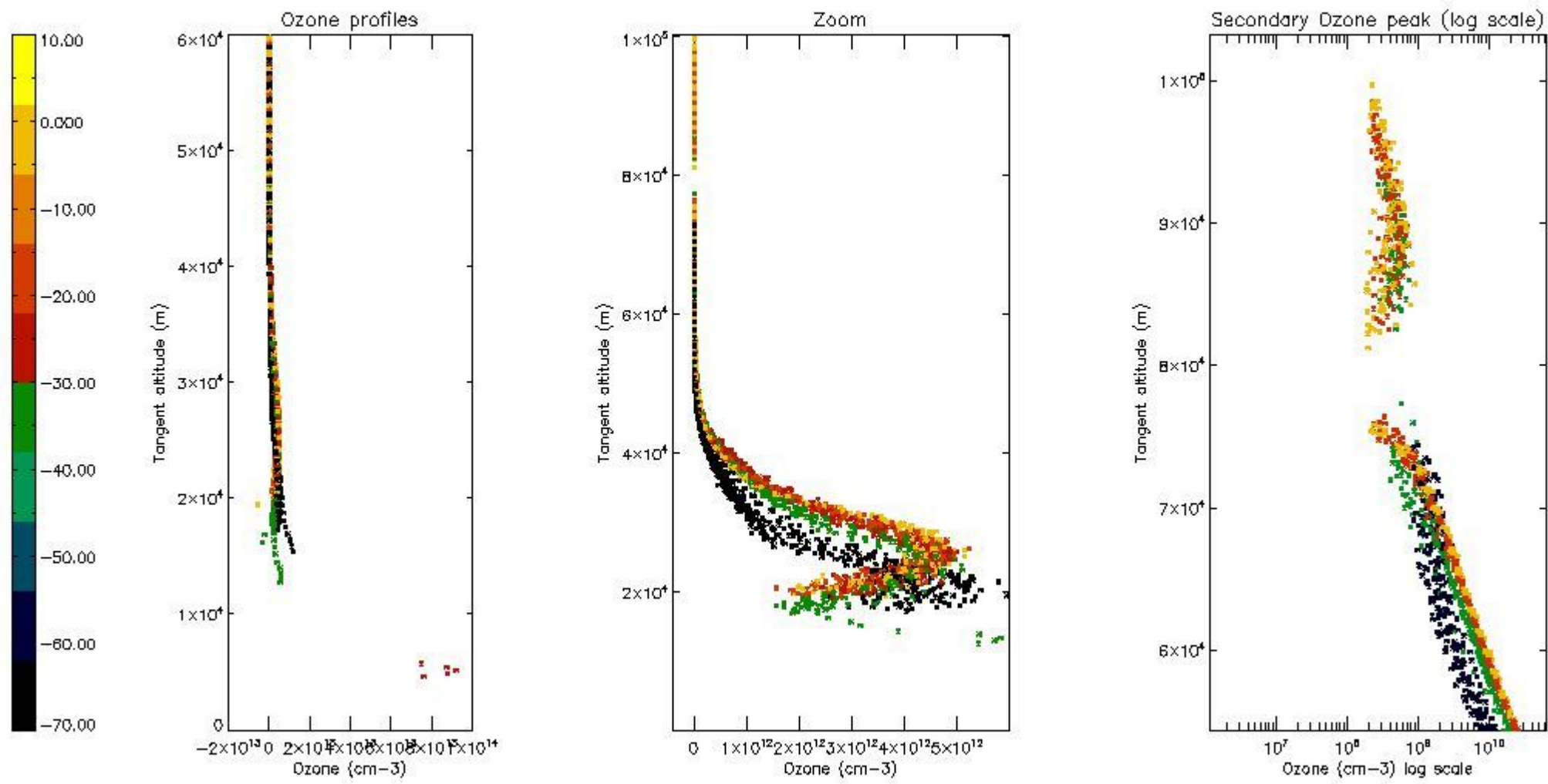
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



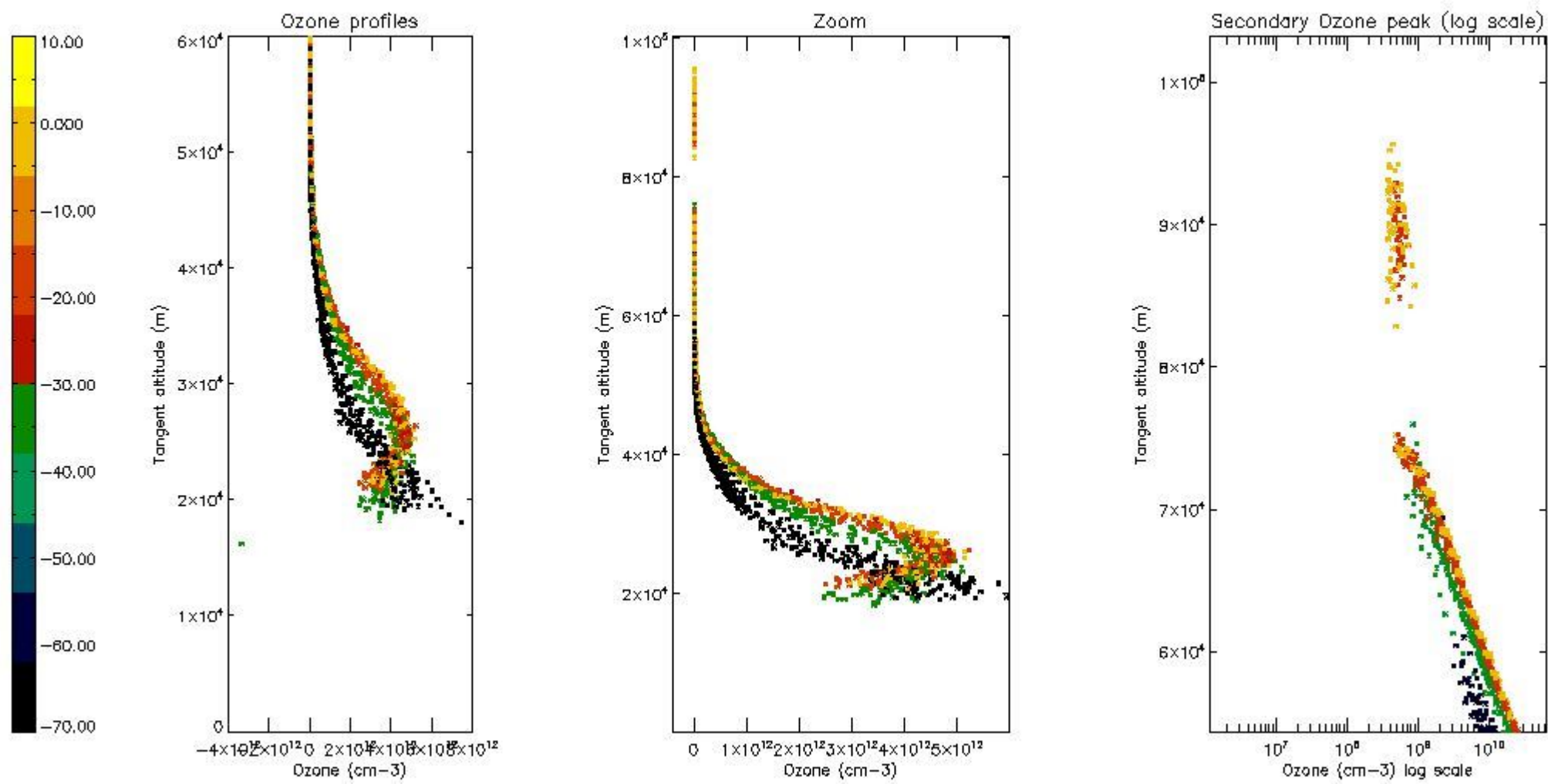
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



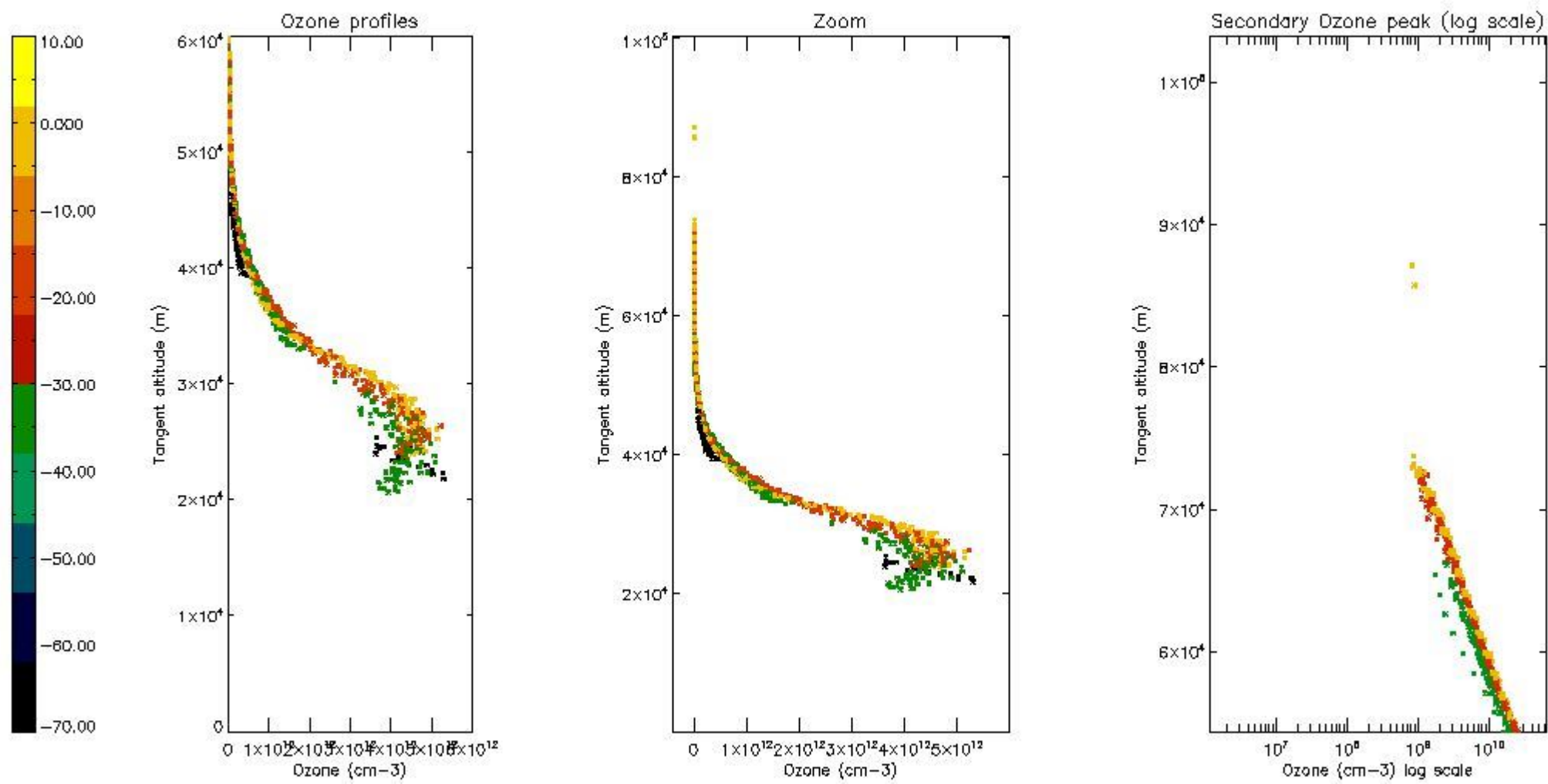
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



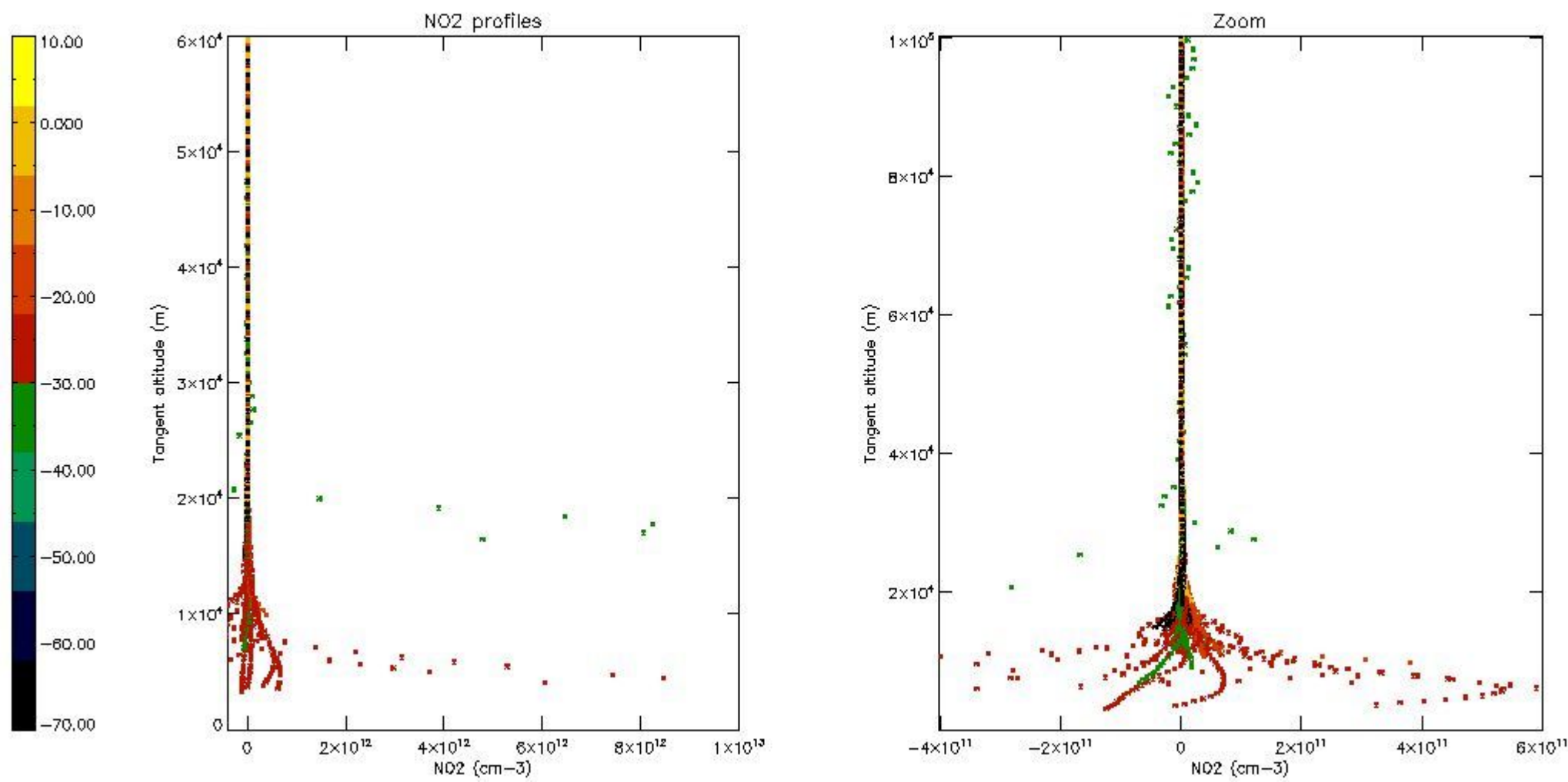
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



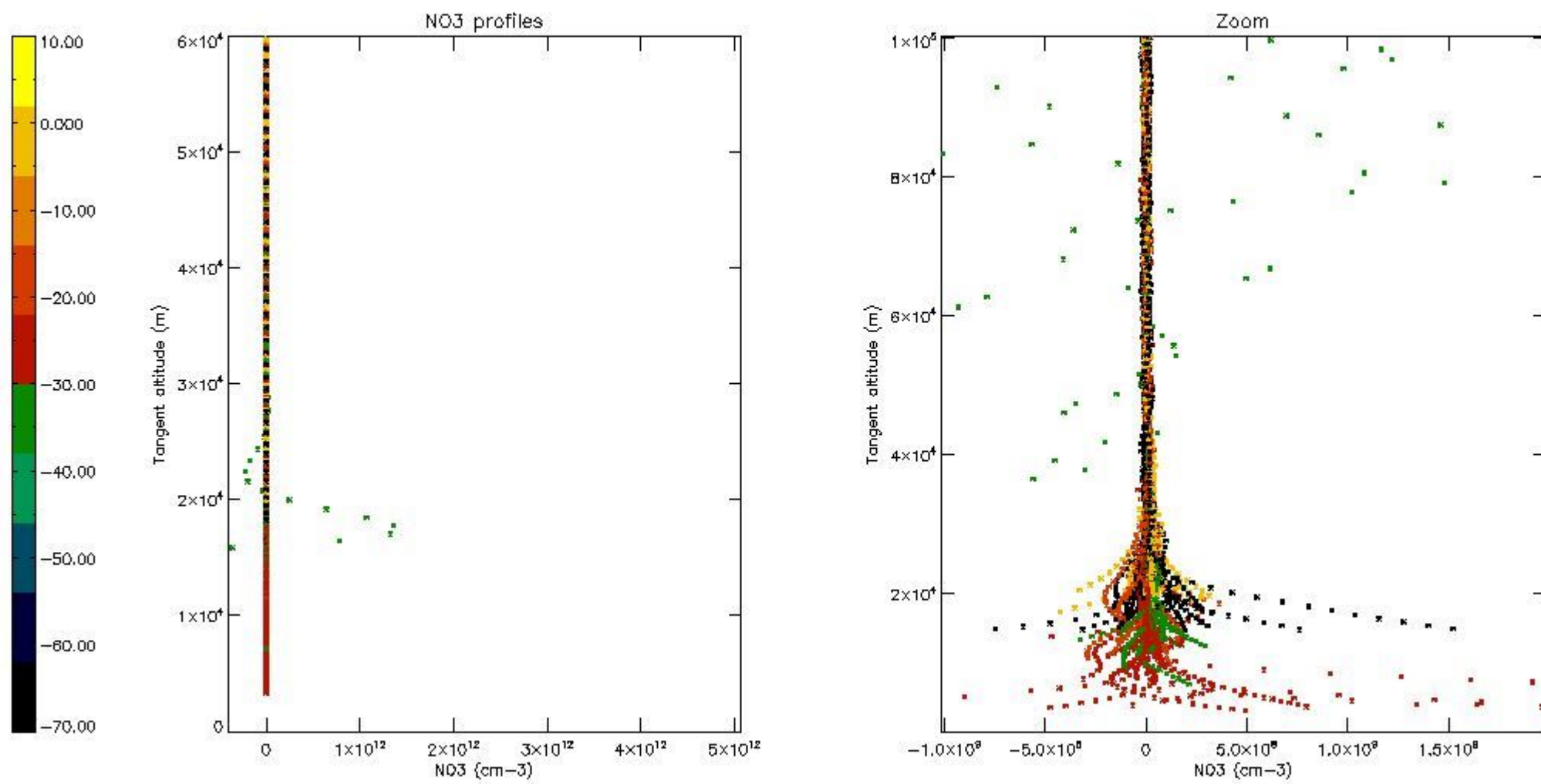
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



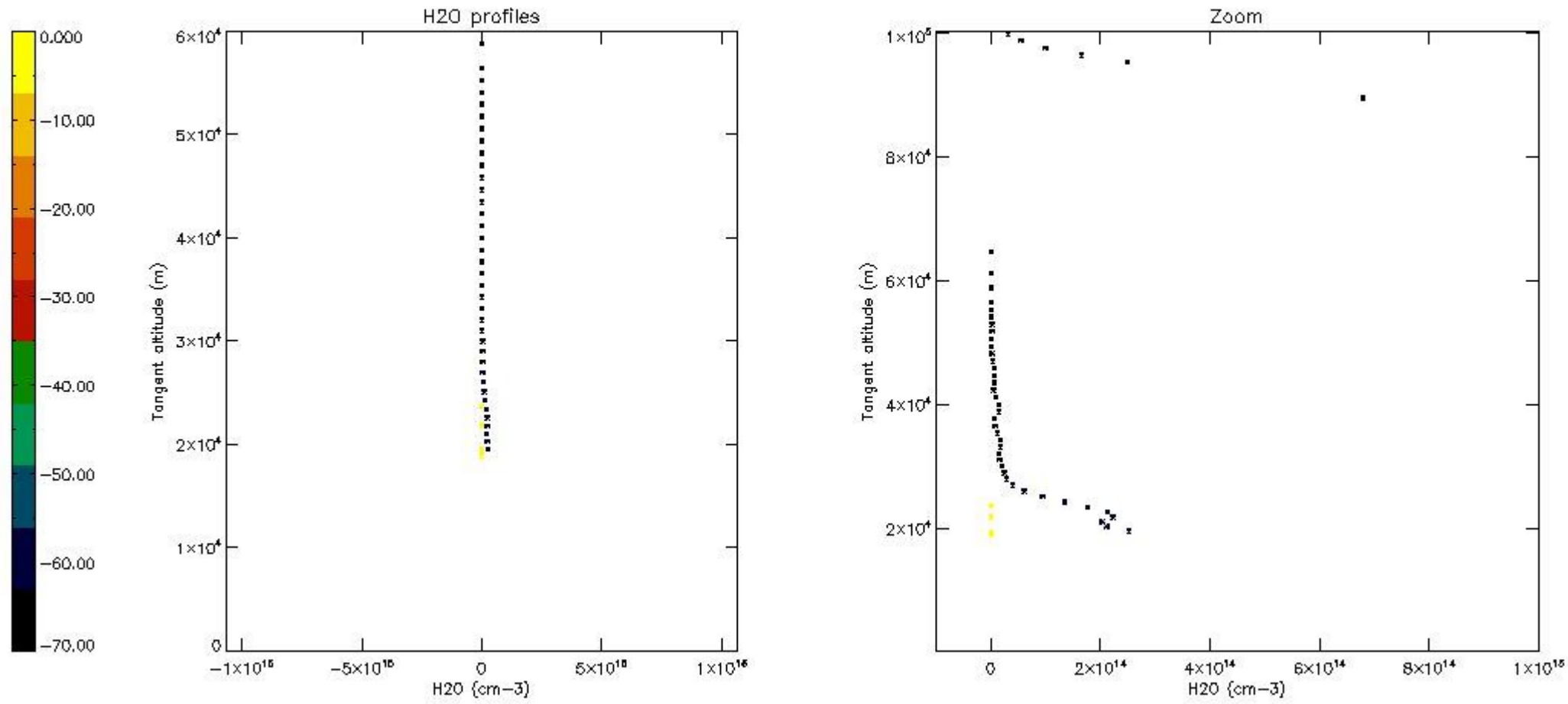
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

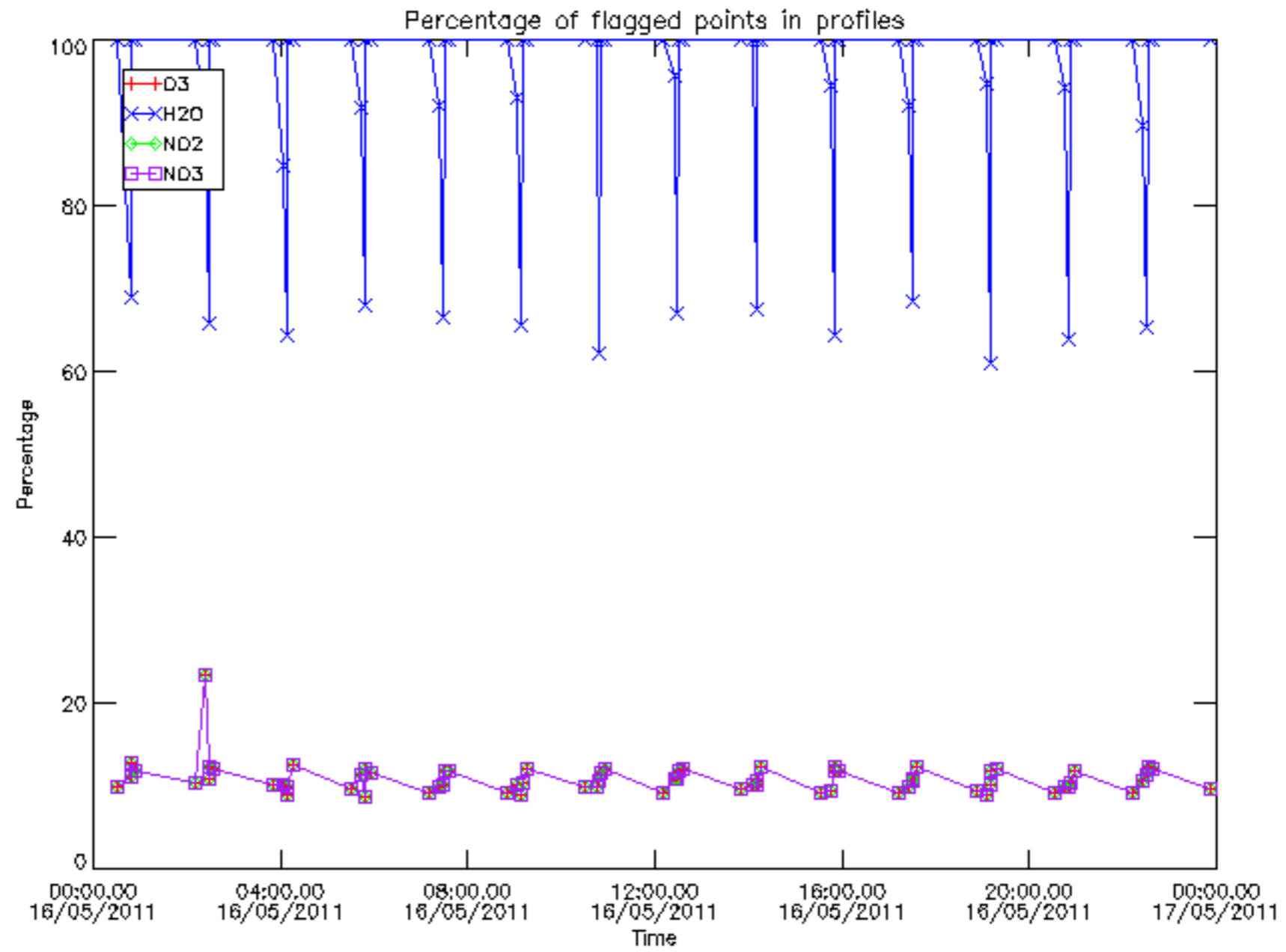
The colorbar represents the latitude.



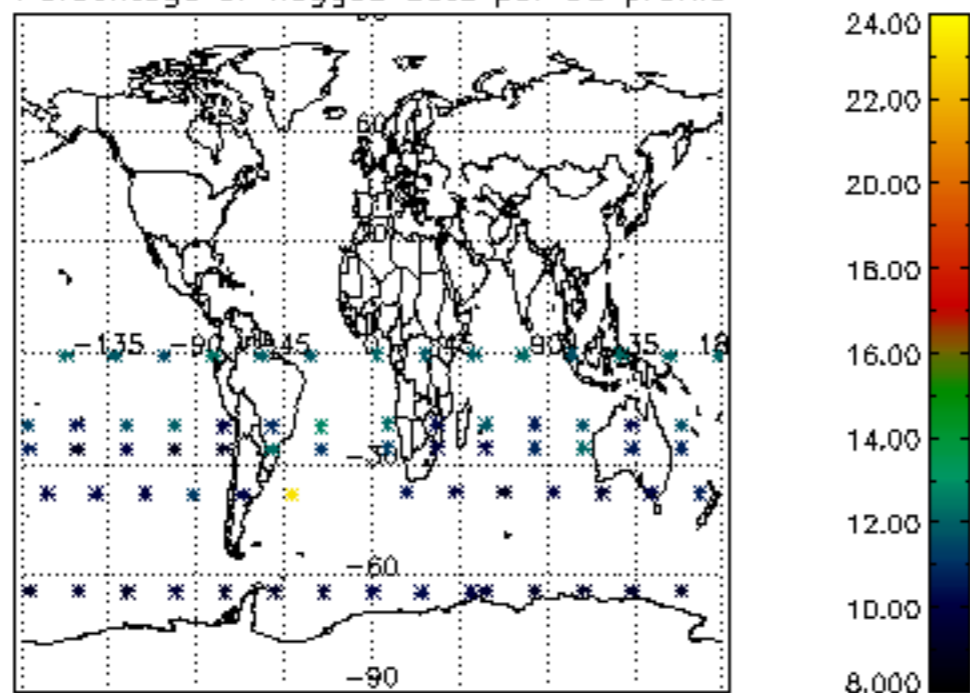
6. Auxiliary Data Files used for the production reported in section 2

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.

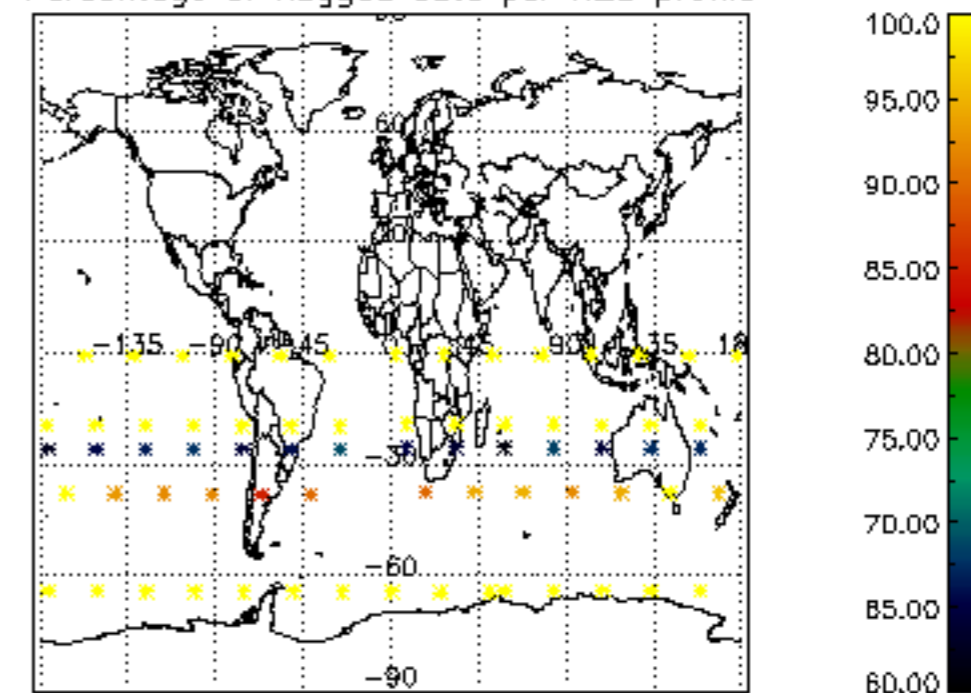
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-MAY-2011 00:01:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-MAY-2011 00:01:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-MAY-2011 00:01:32



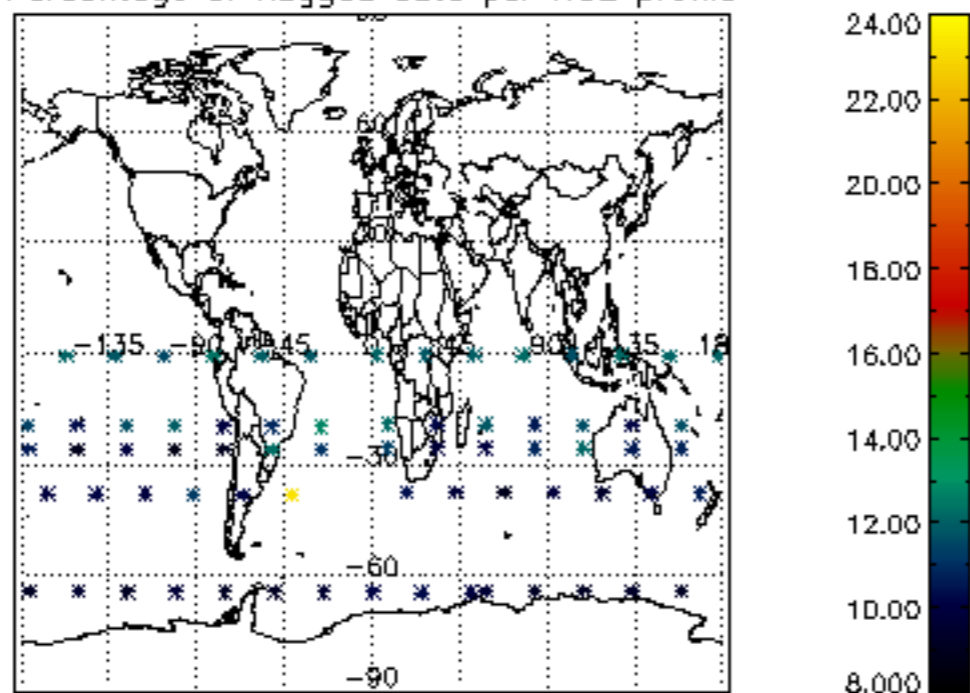
Percentage of flagged data per D3 profile



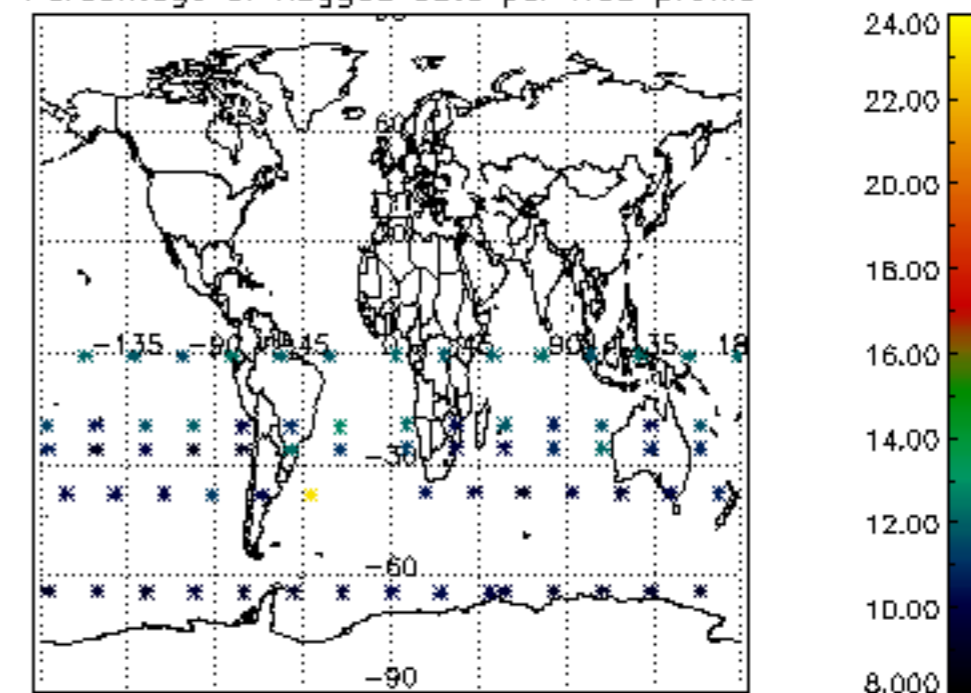
Percentage of flagged data per H2O profile

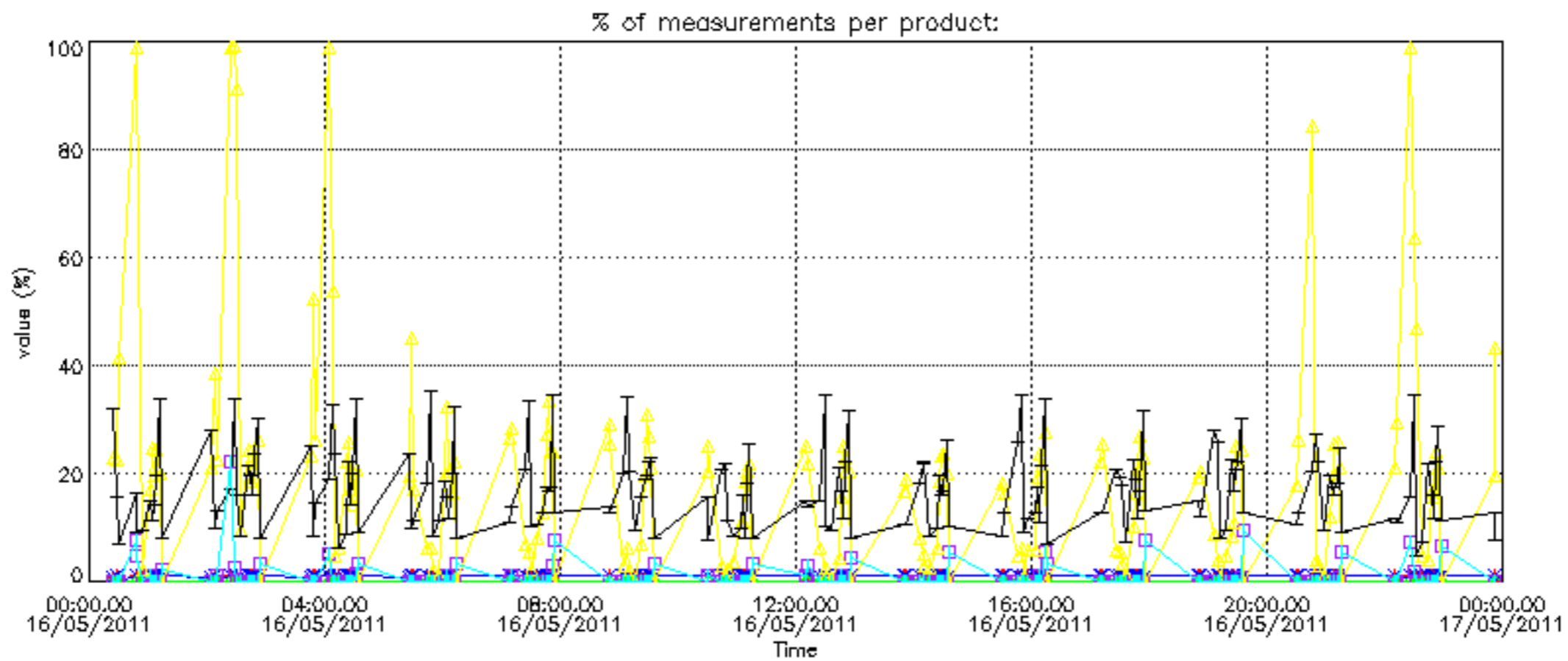


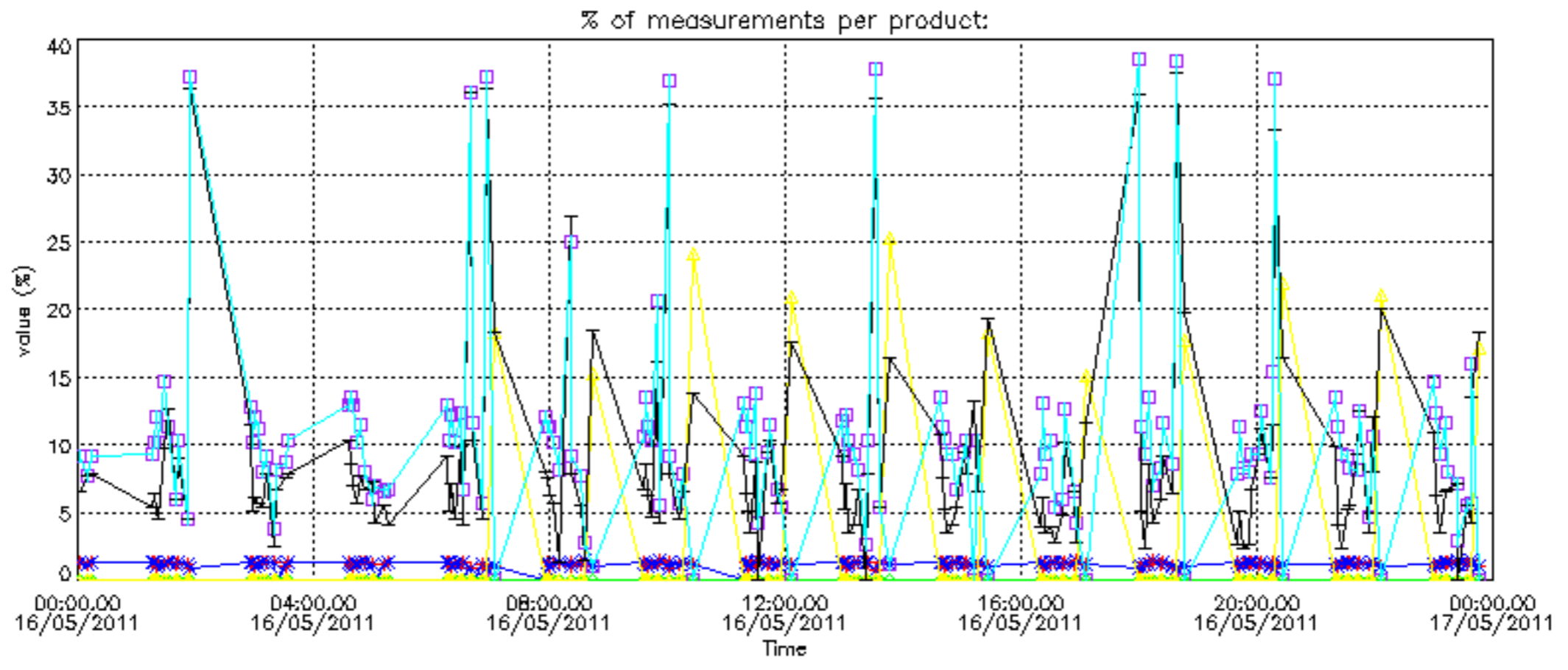
Percentage of flagged data per NO2 profile



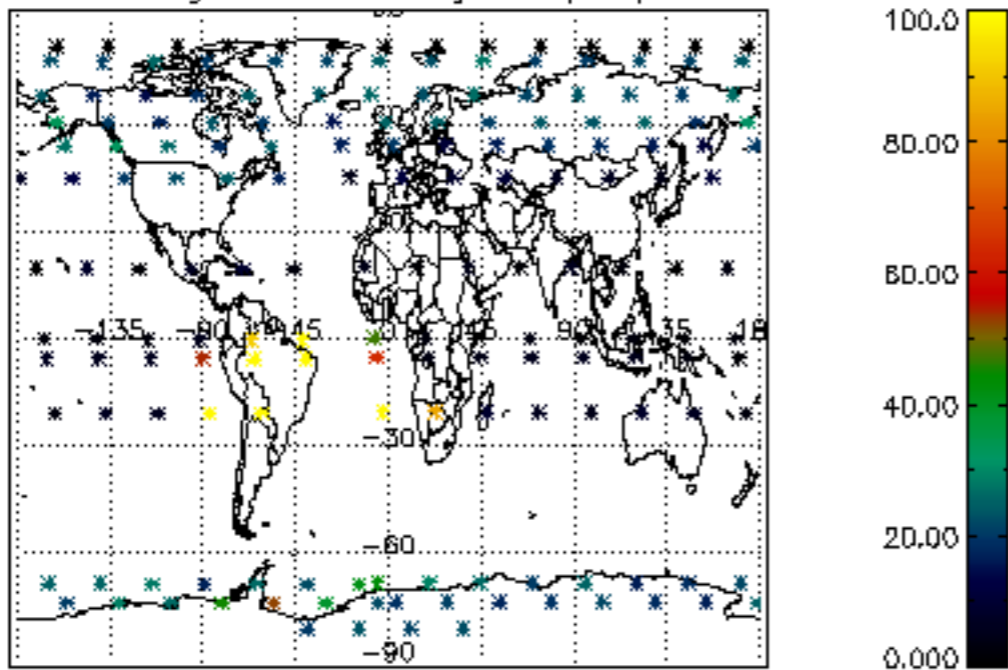
Percentage of flagged data per NO3 profile



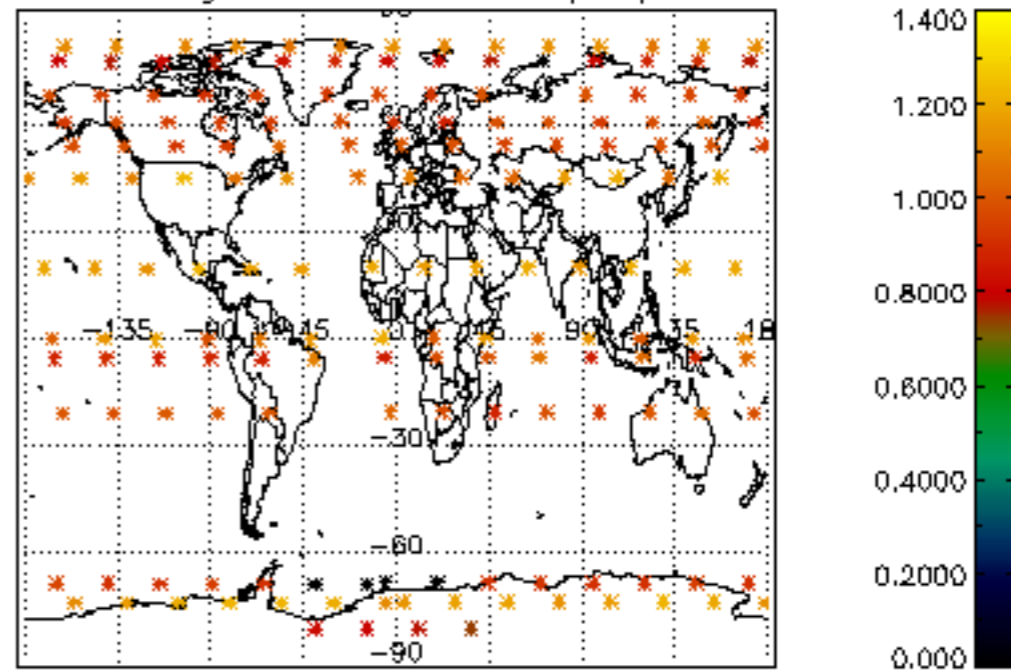




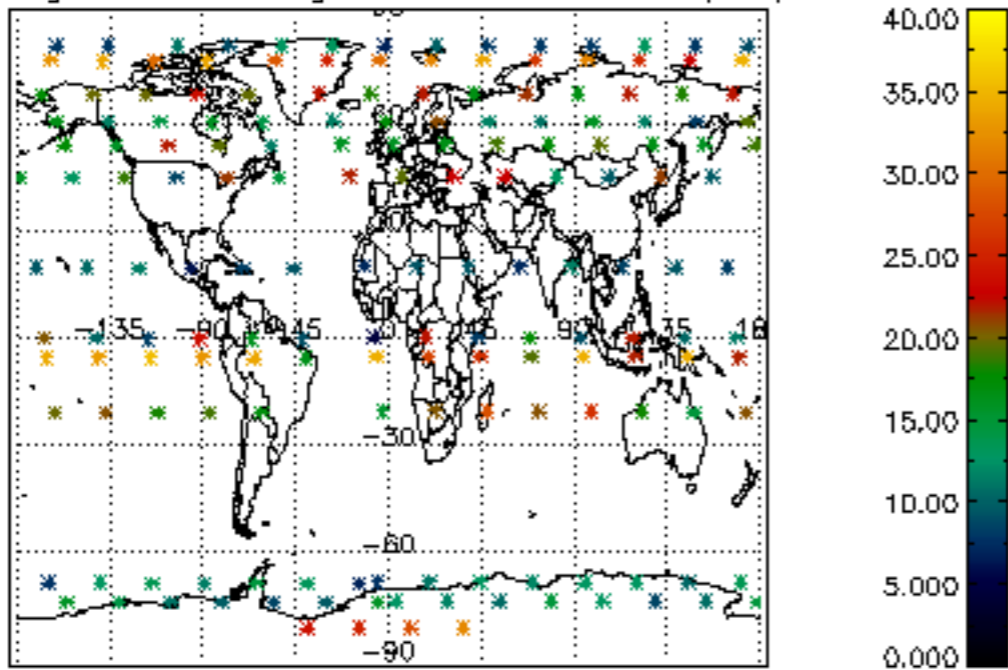
Percentage of cosmic ray hits per profile



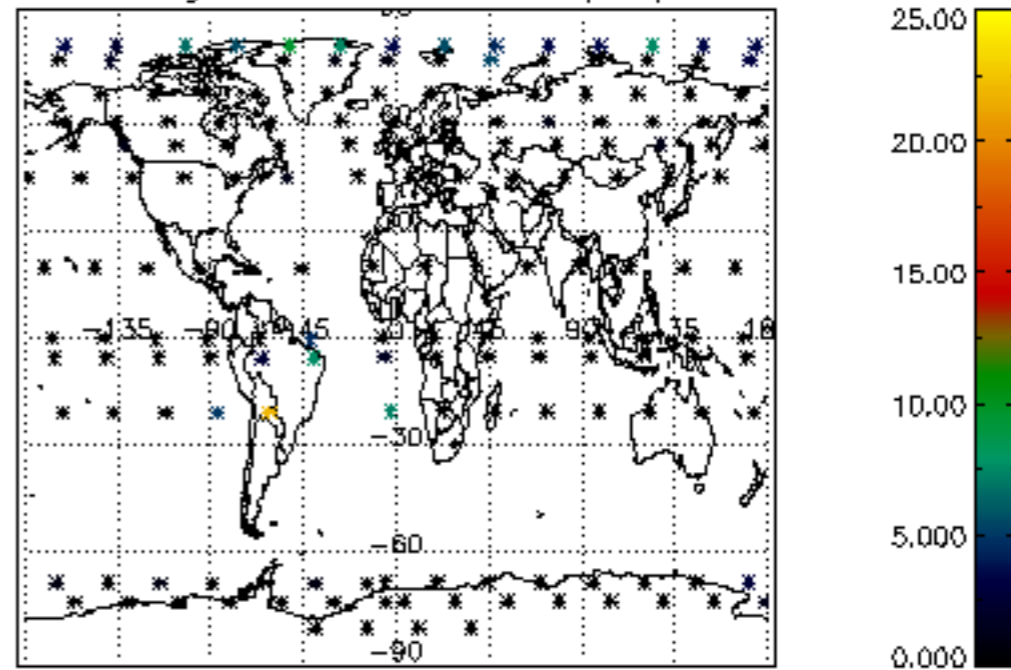
Percentage of datation errors per profile



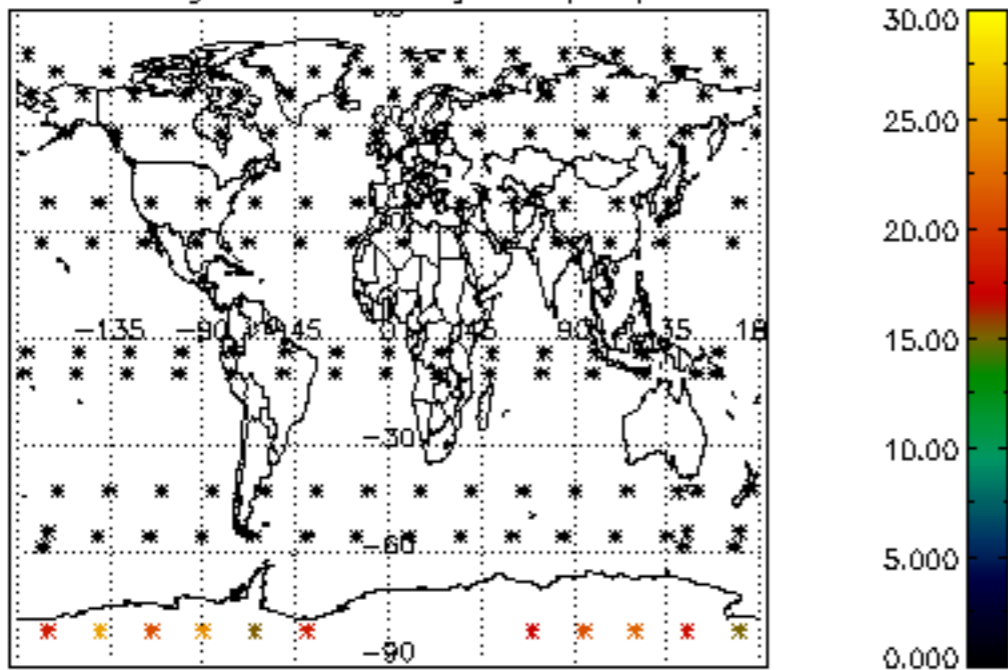
Percentage of star falling outside central band per profile



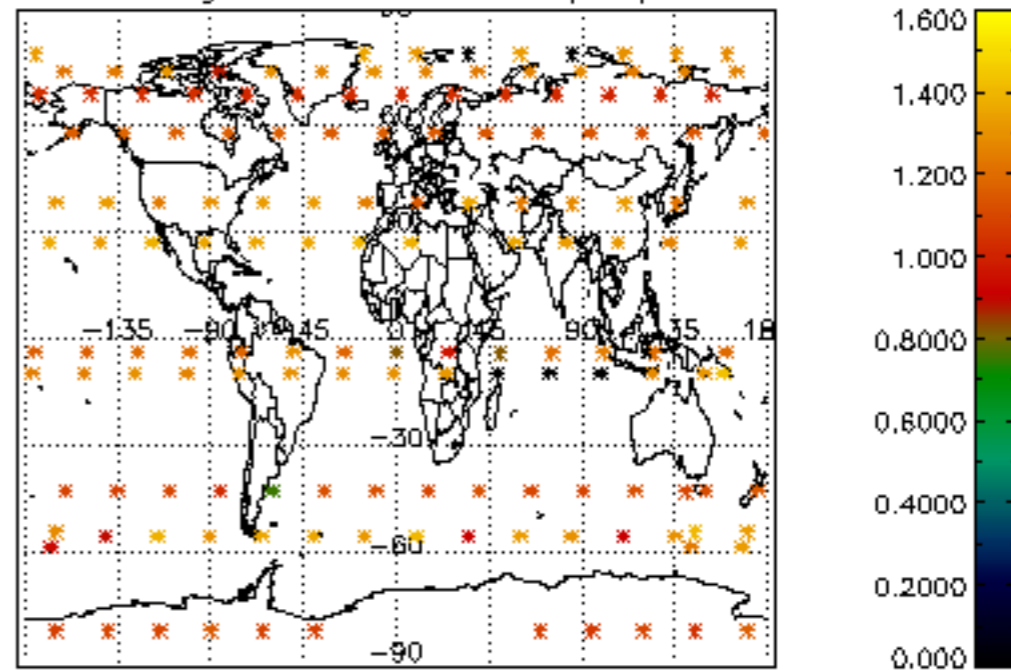
Percentage of saturation errors per profile



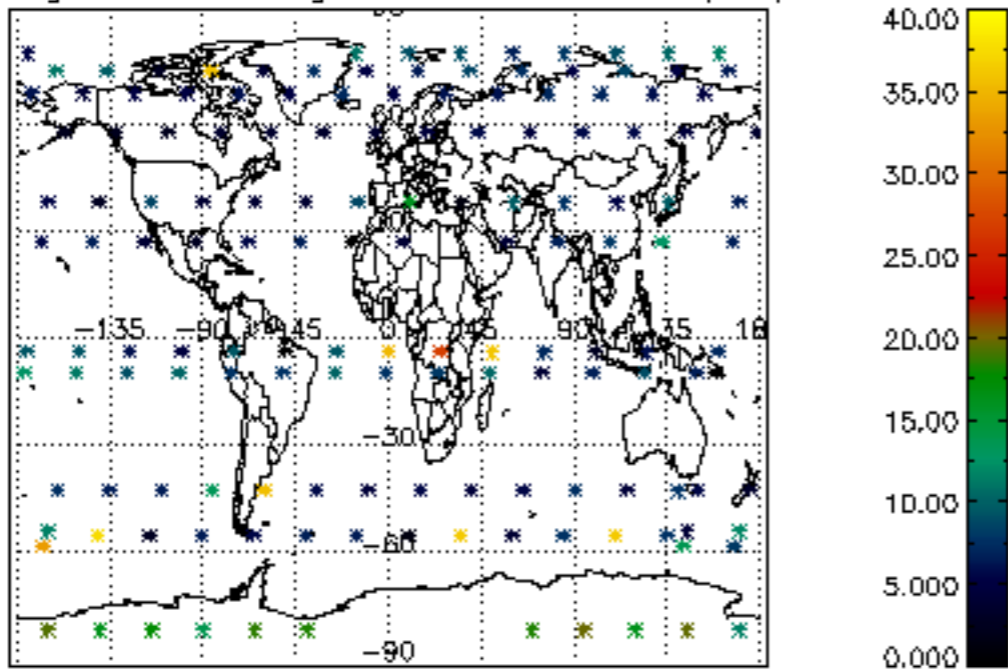
Percentage of cosmic ray hits per profile



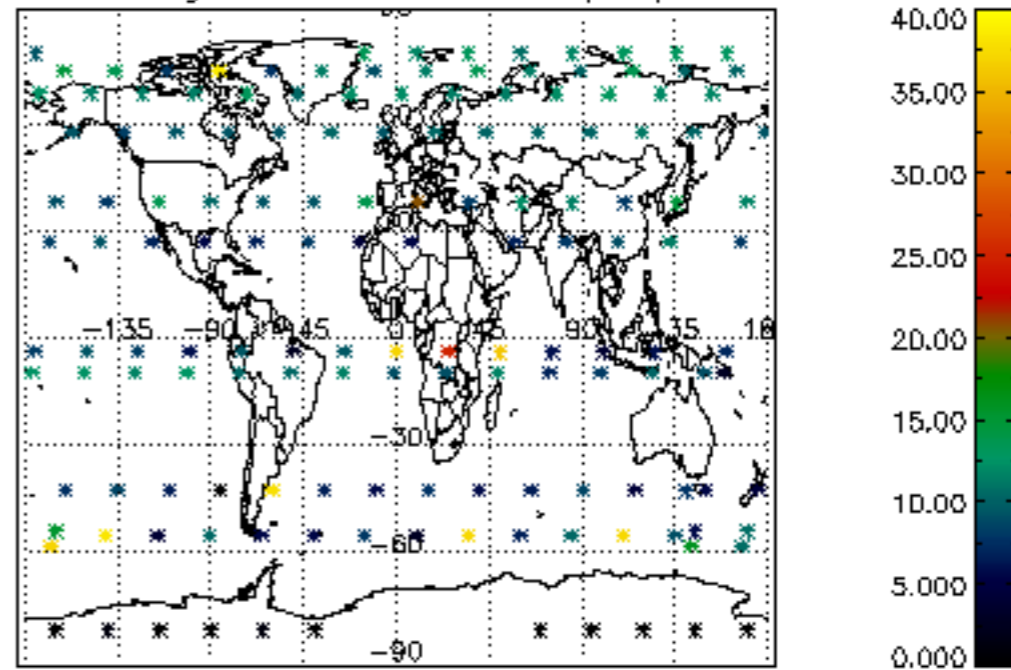
Percentage of datation errors per profile

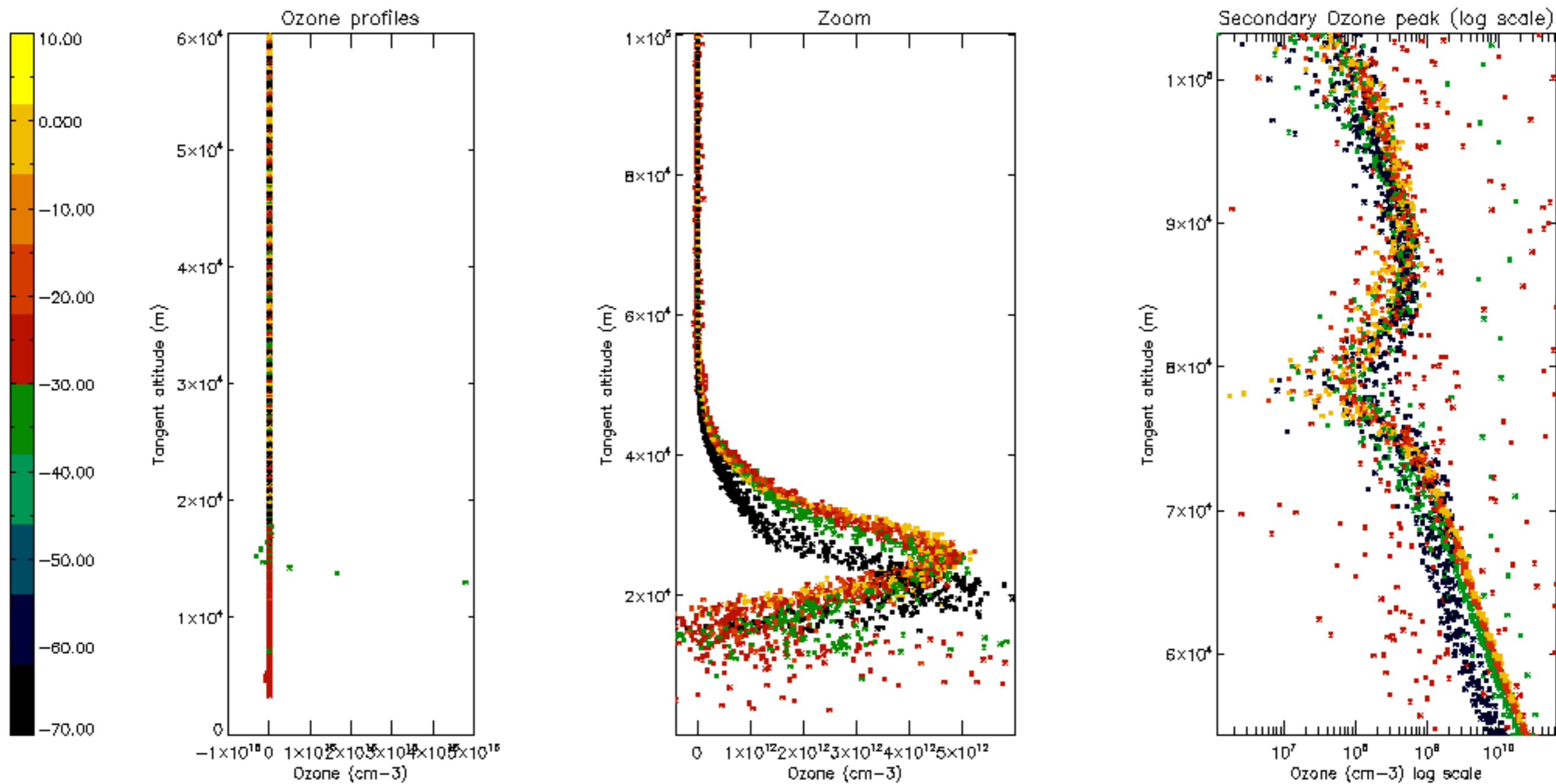


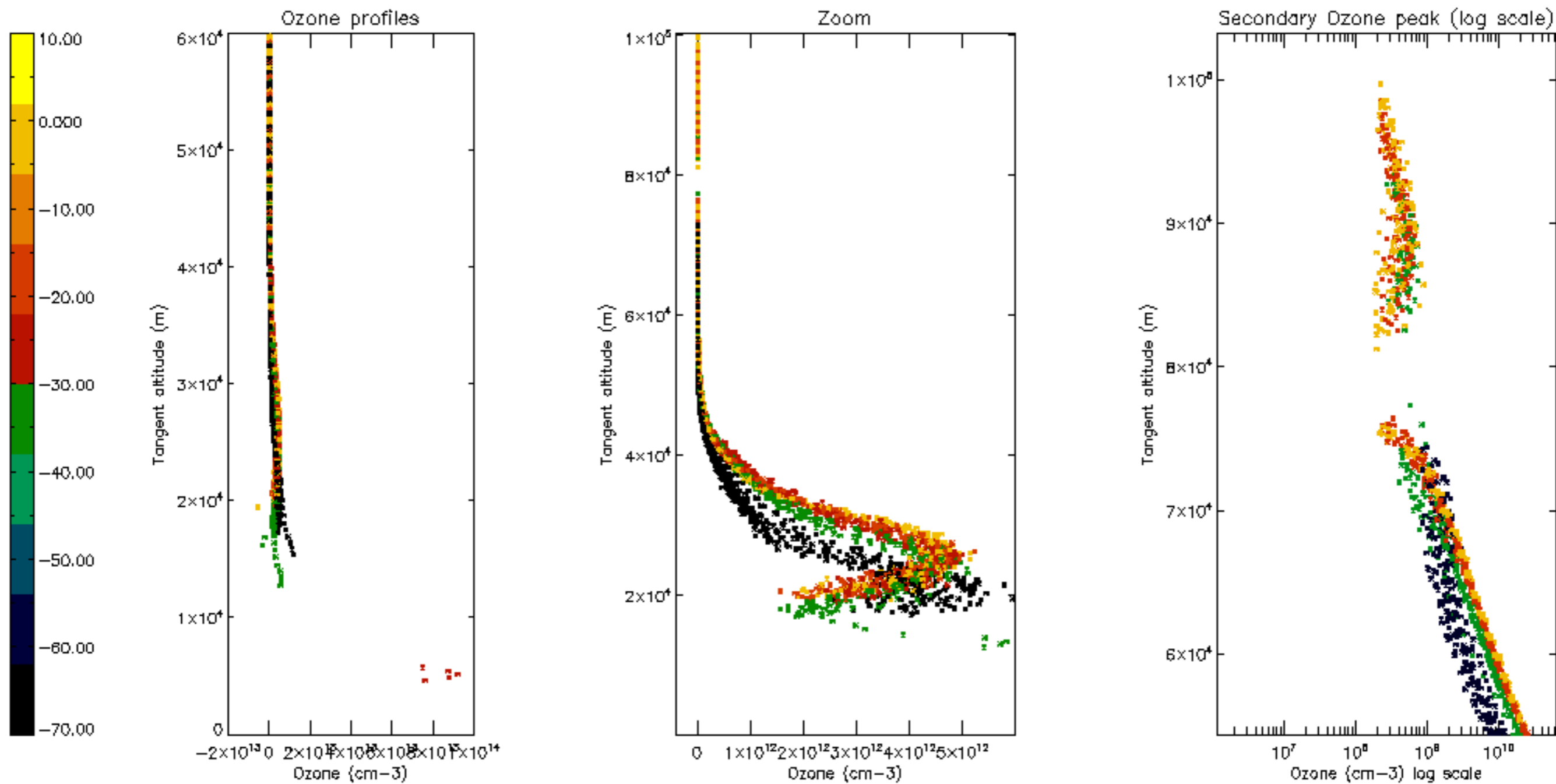
Percentage of star falling outside central band per profile

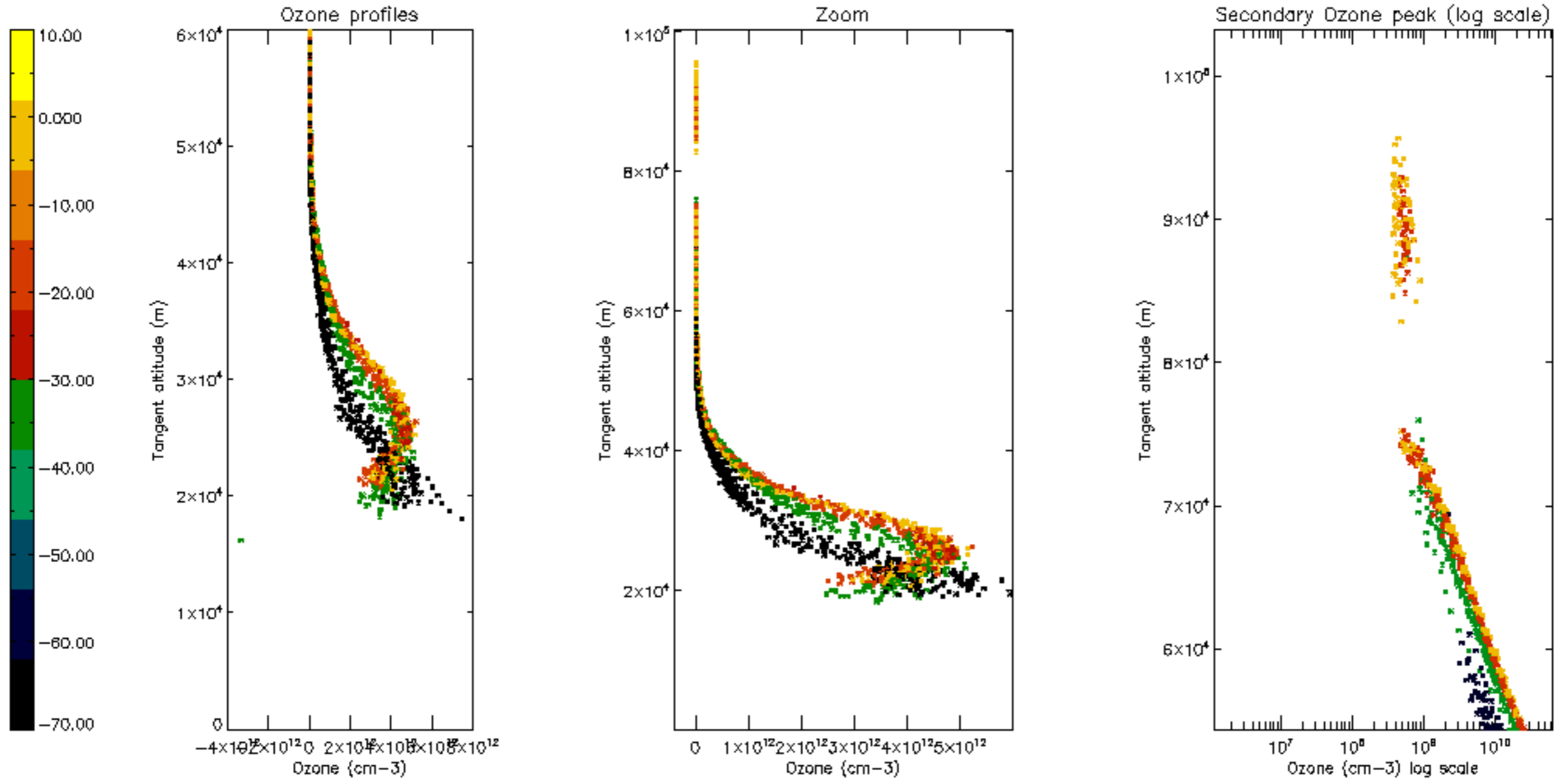


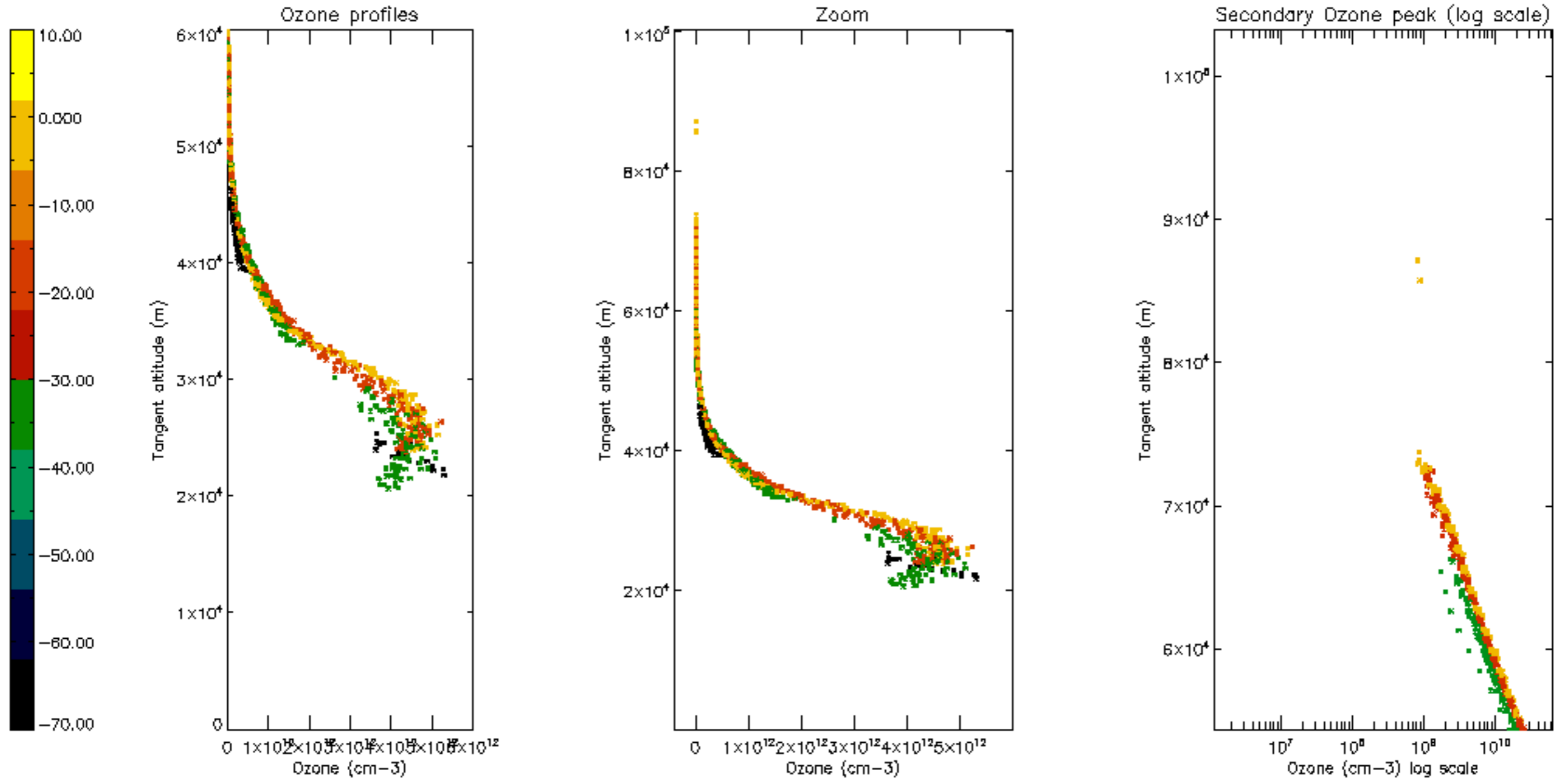
Percentage of saturation errors per profile

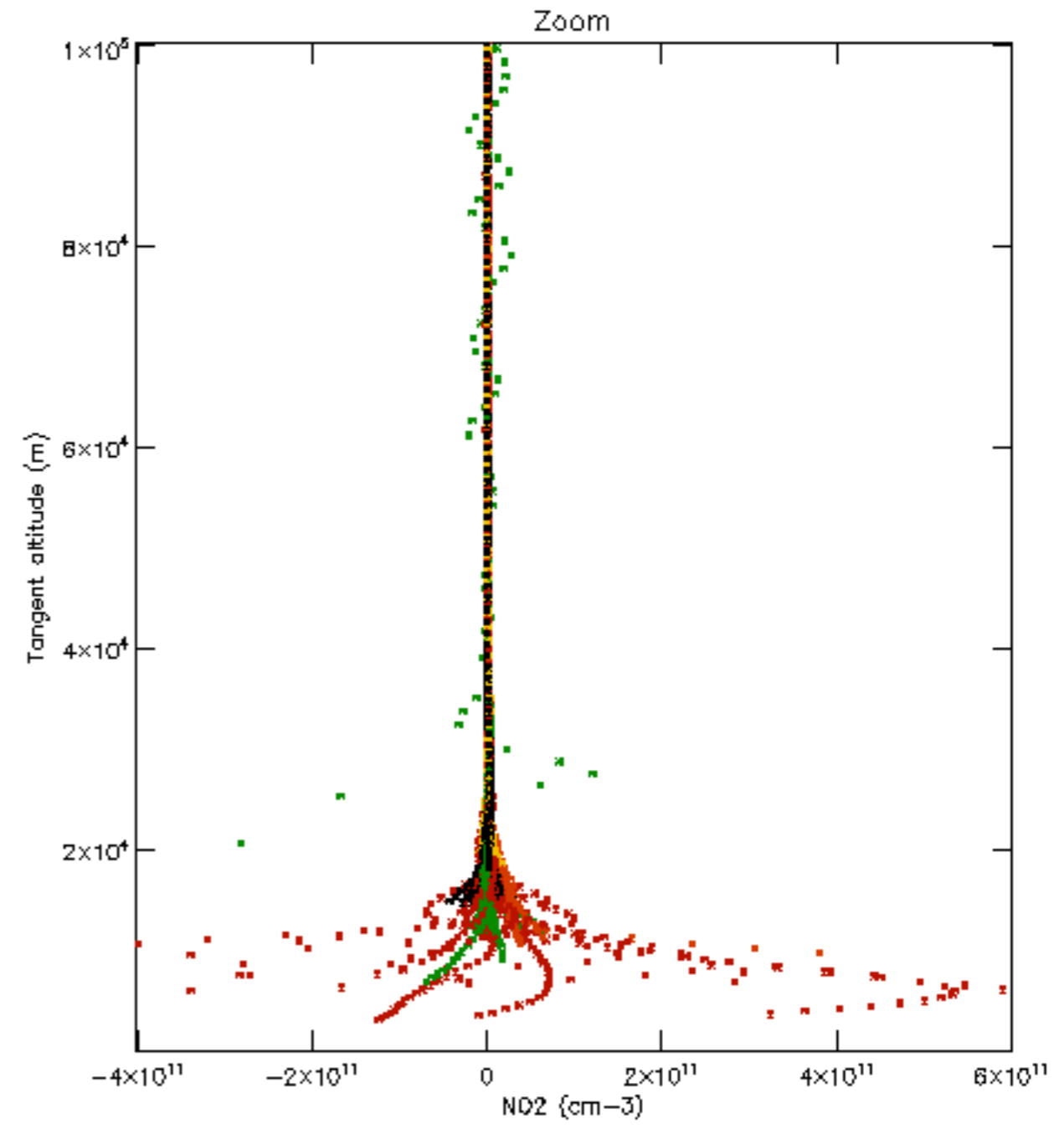
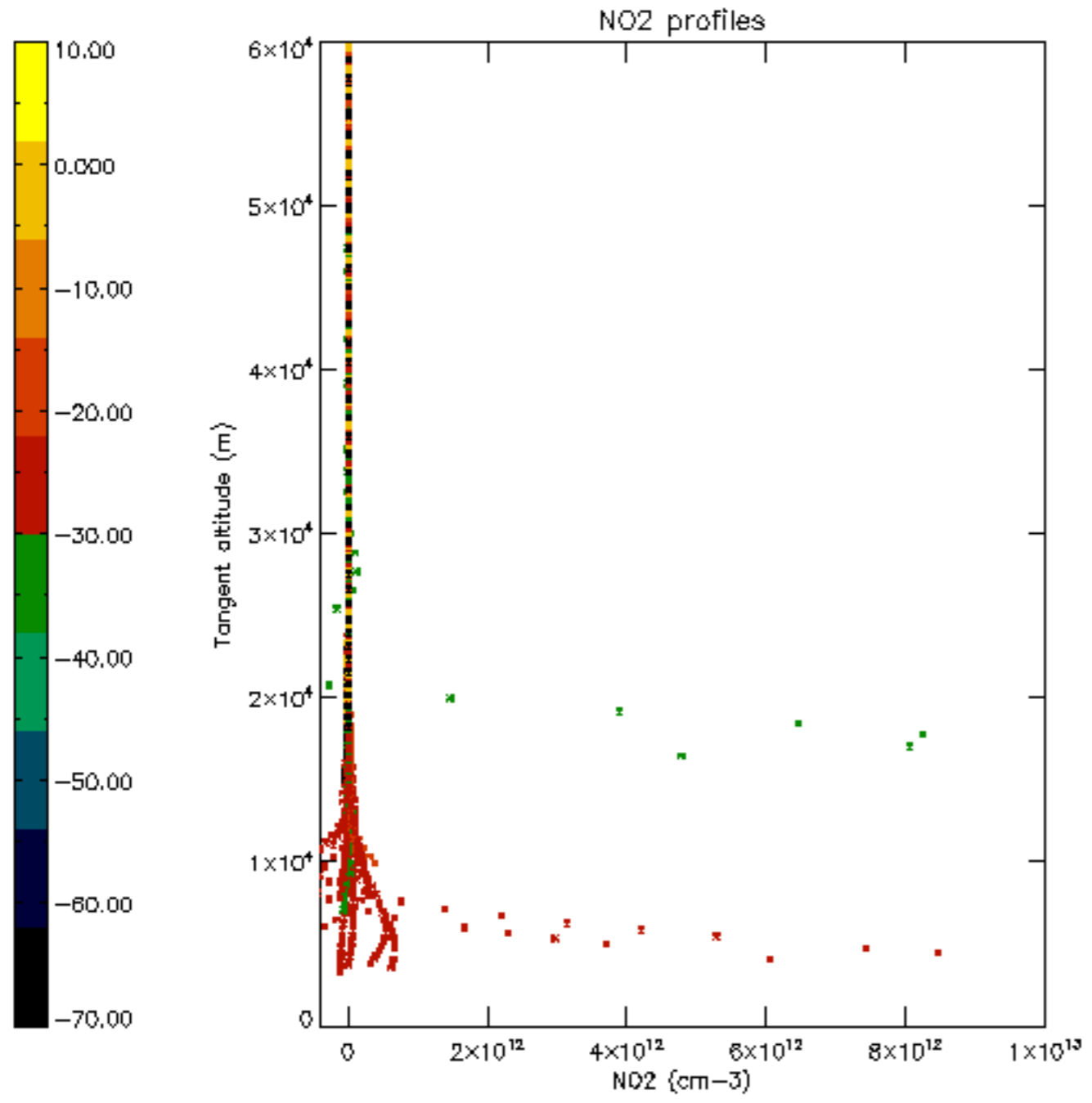


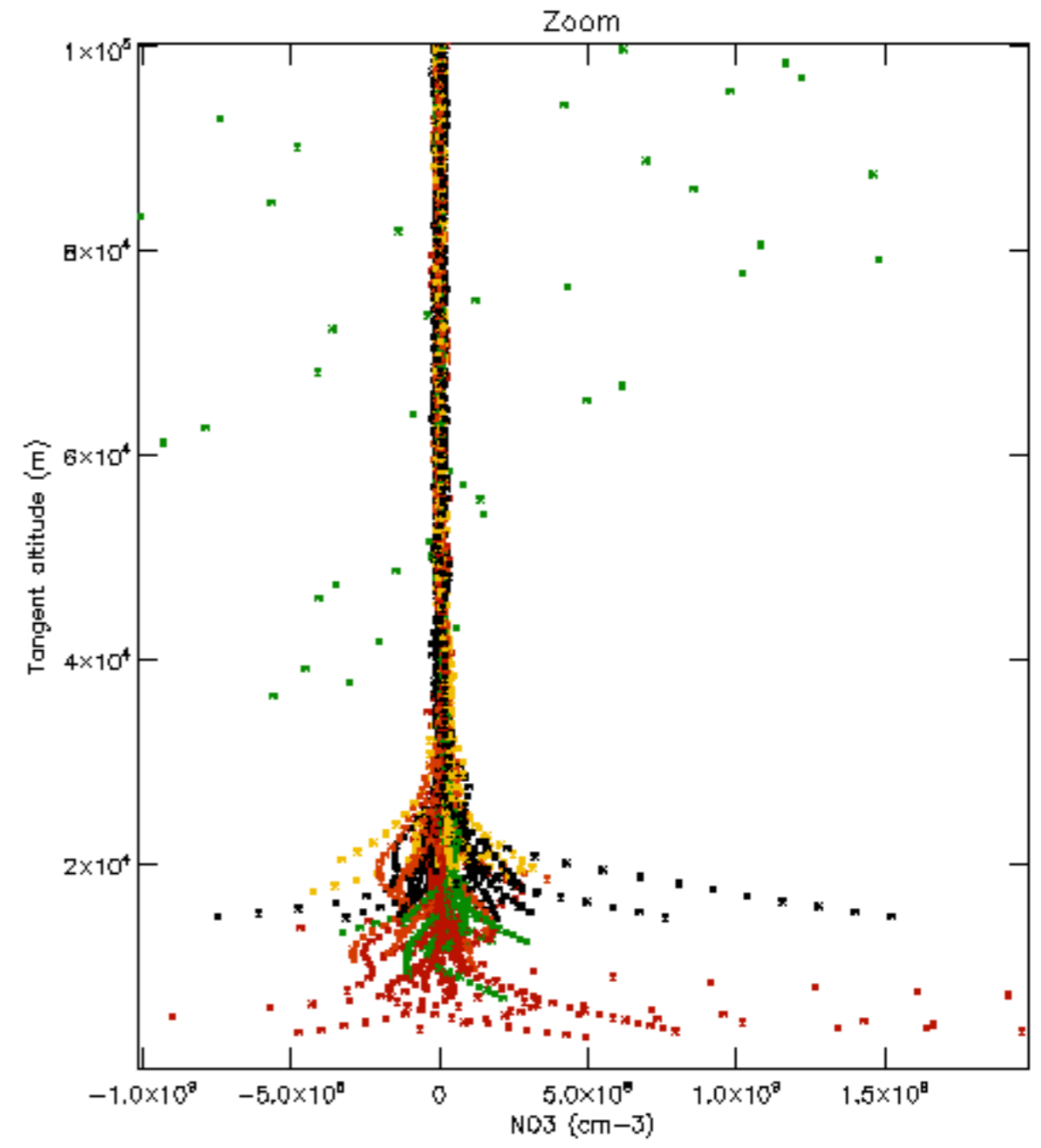
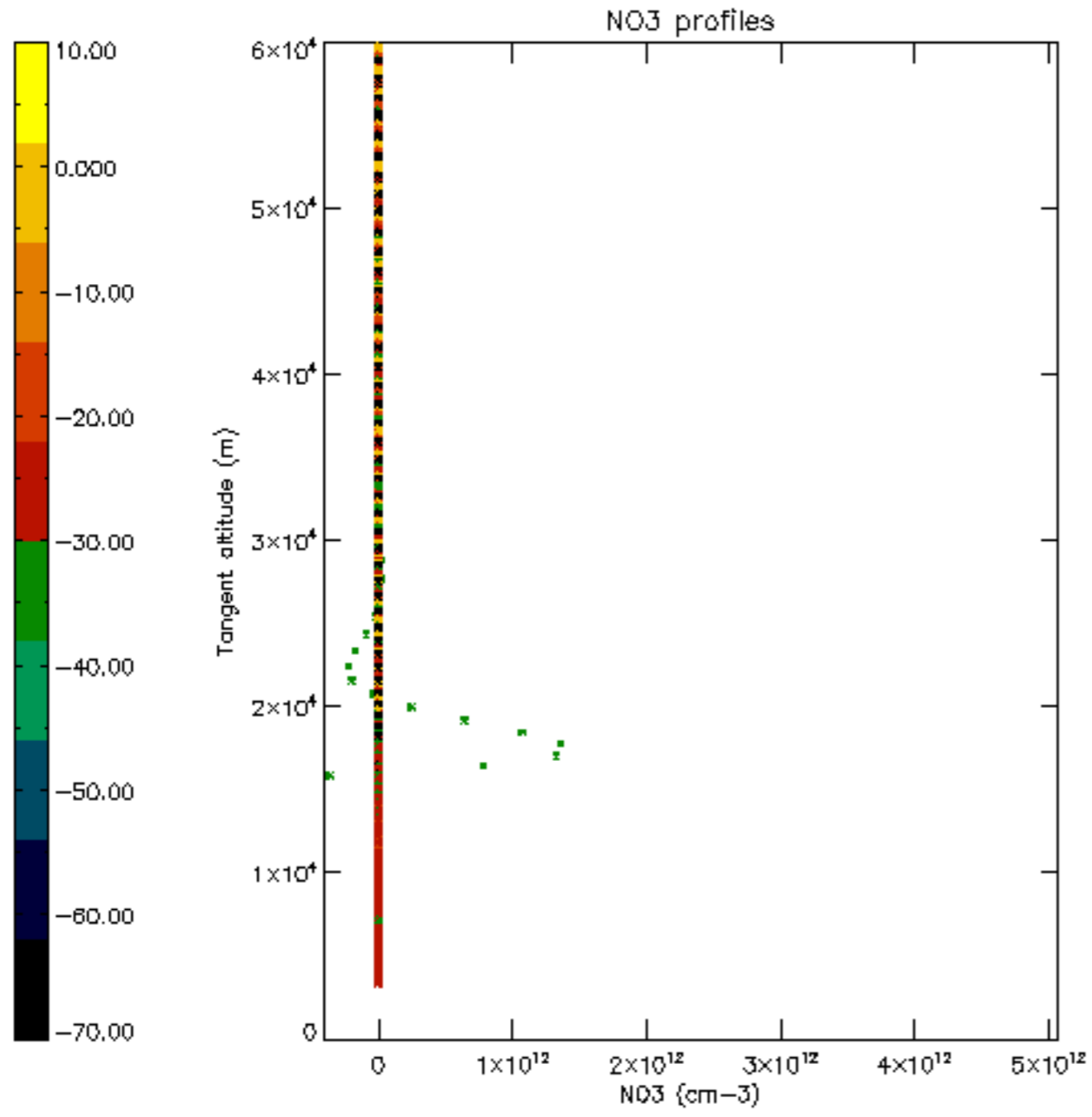


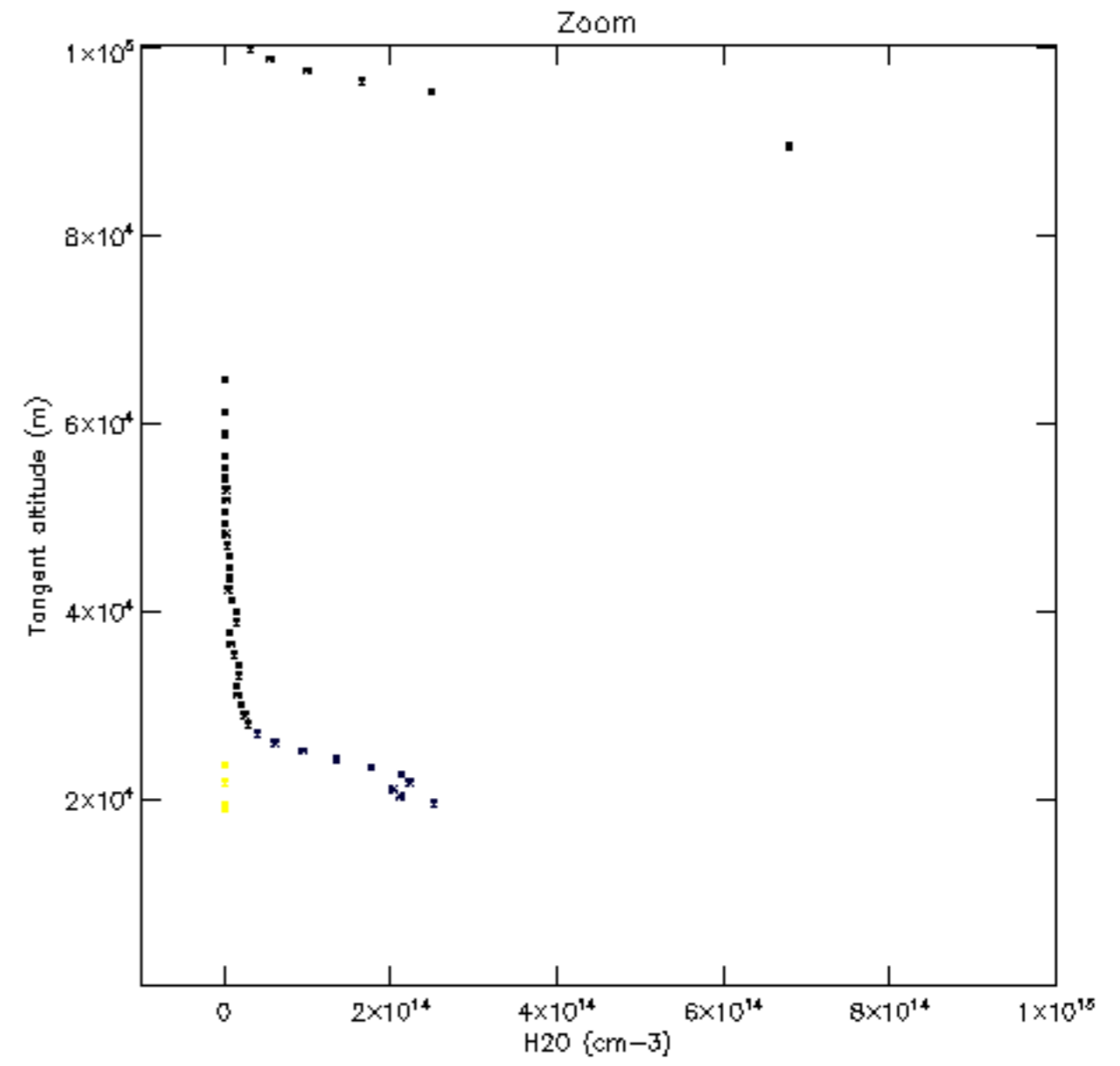
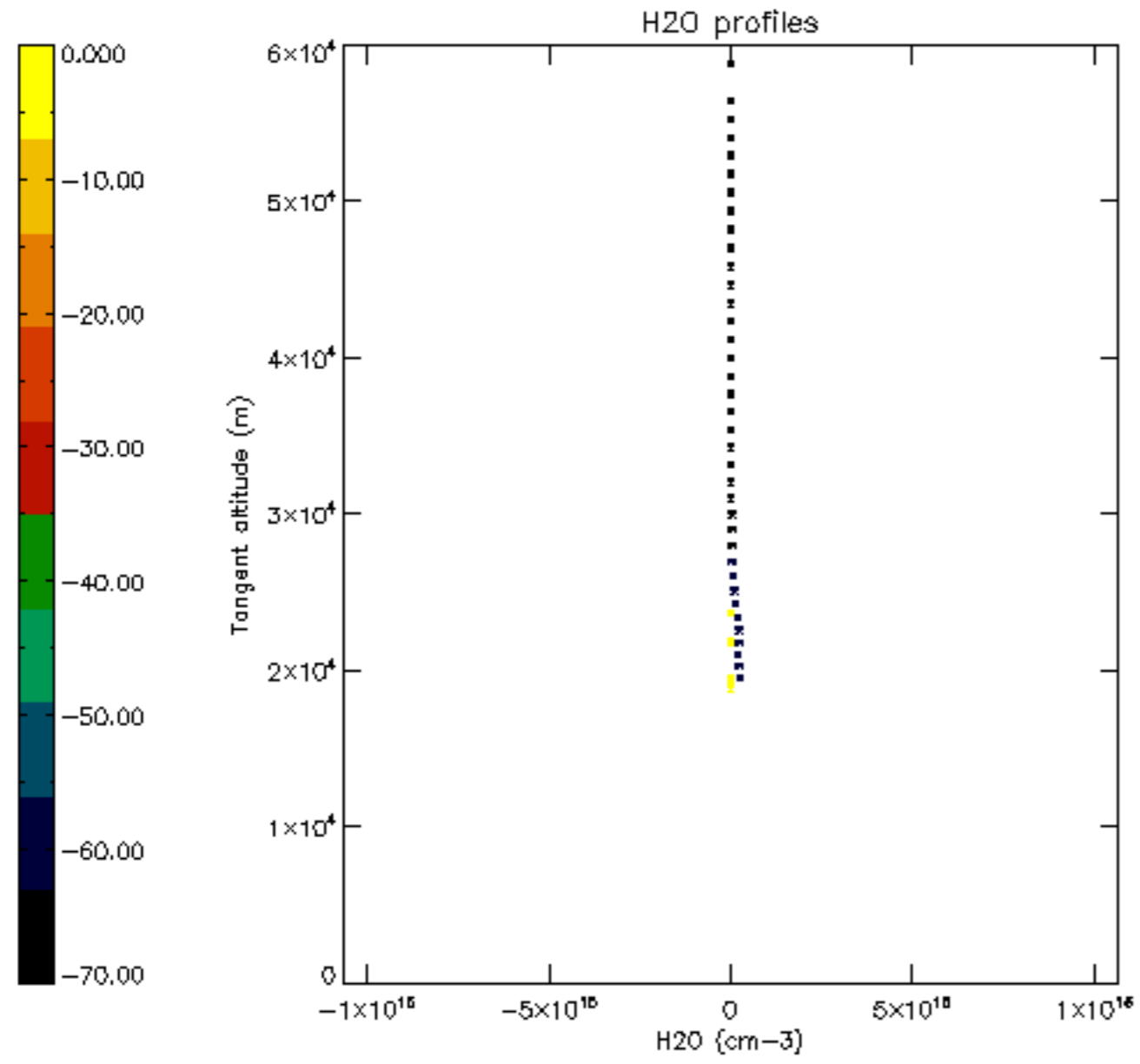


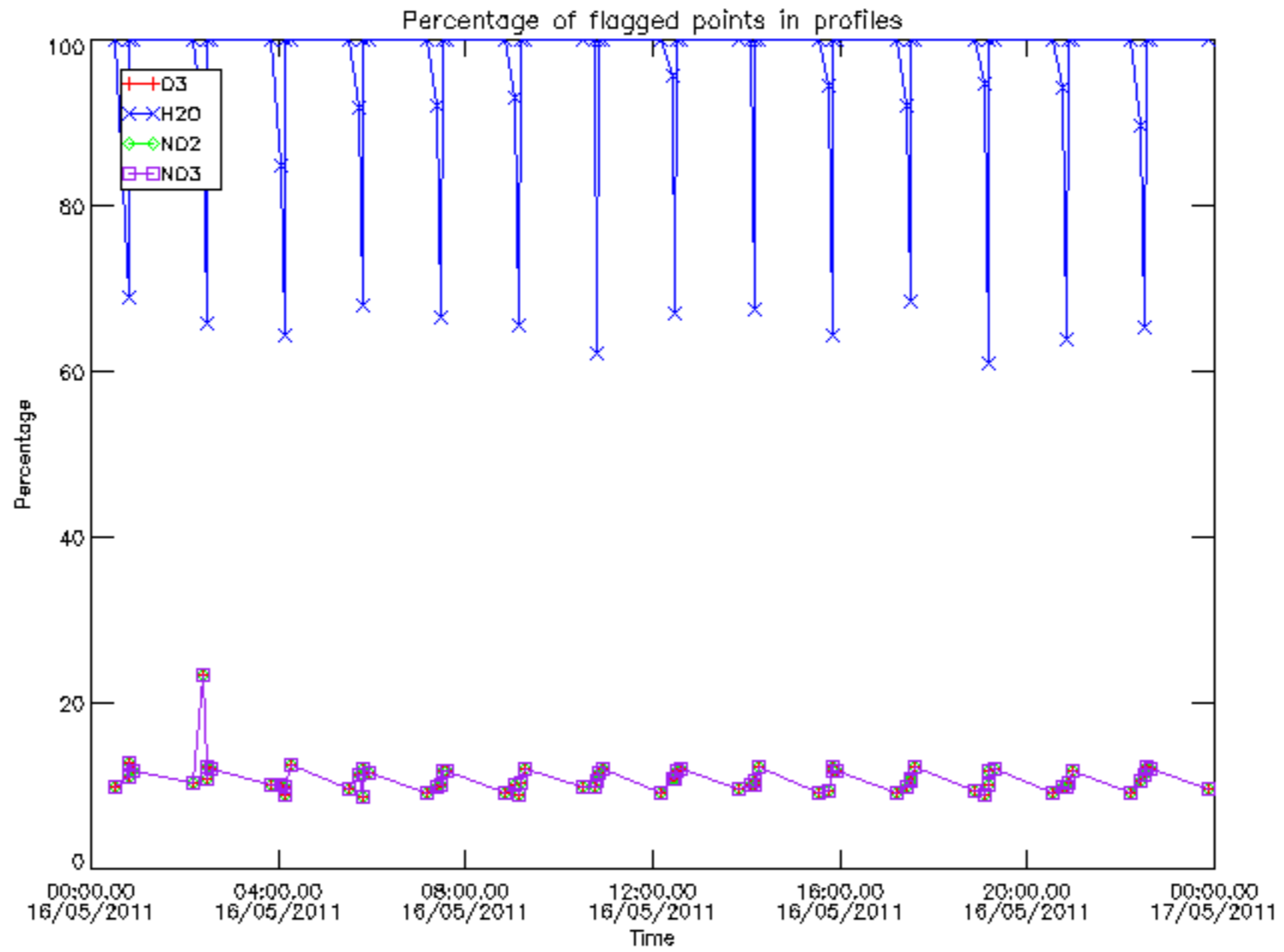




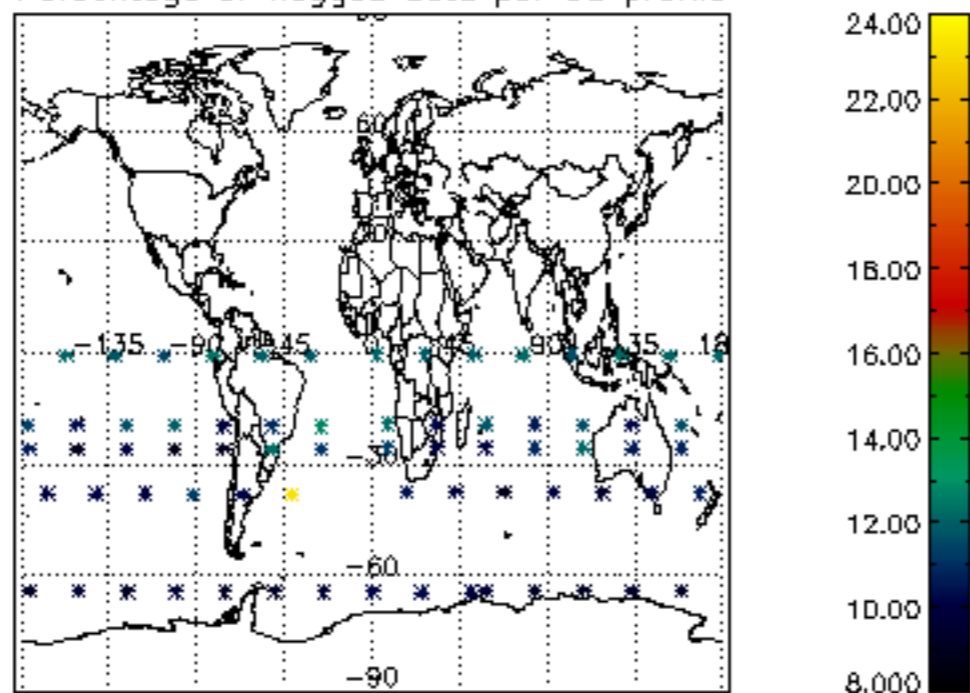




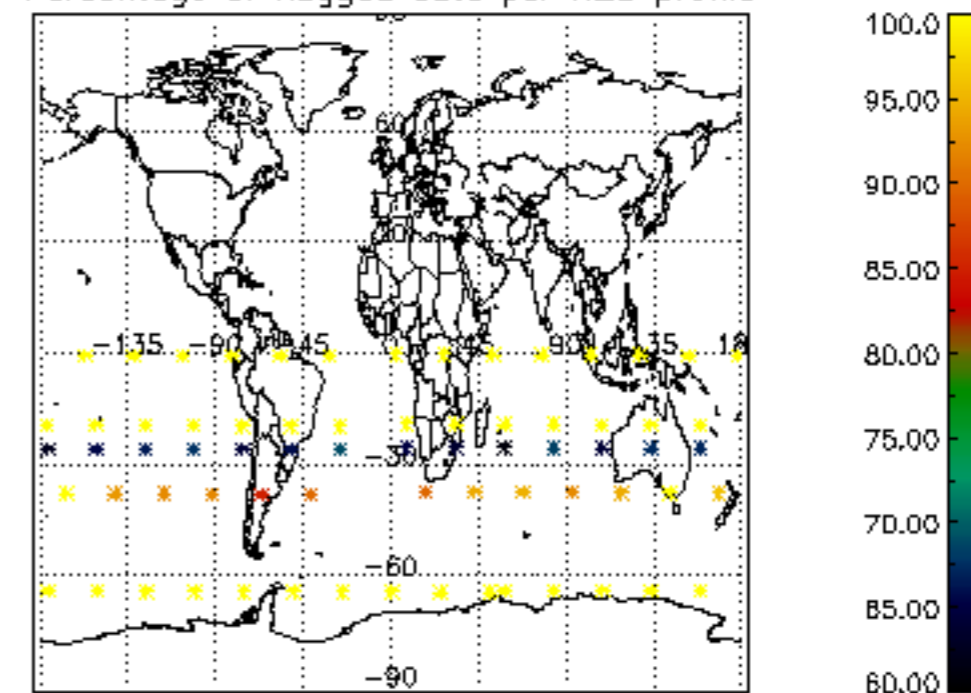




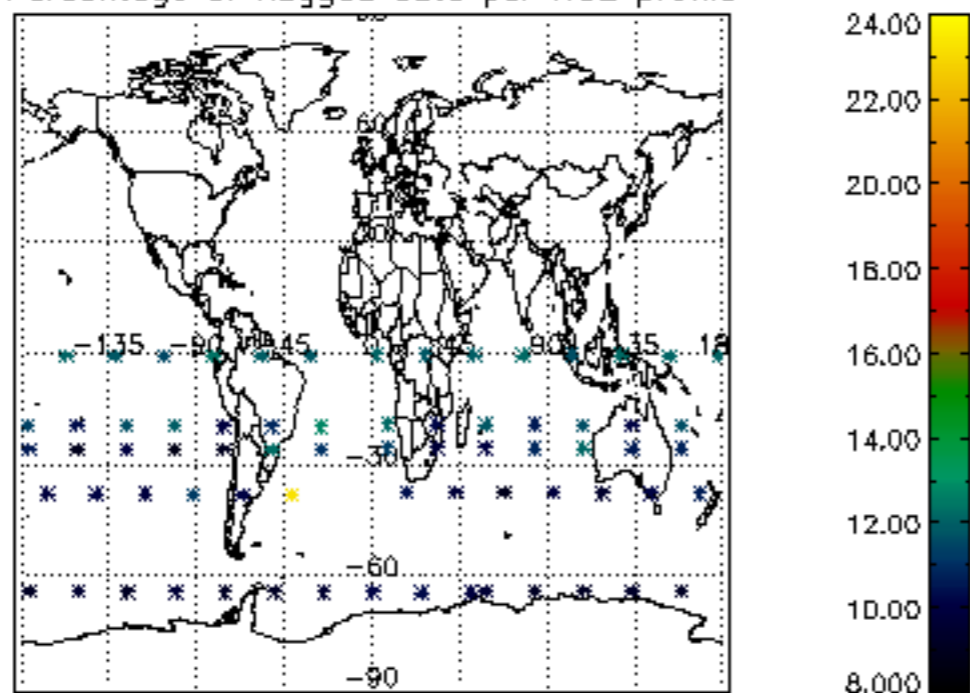
Percentage of flagged data per D3 profile



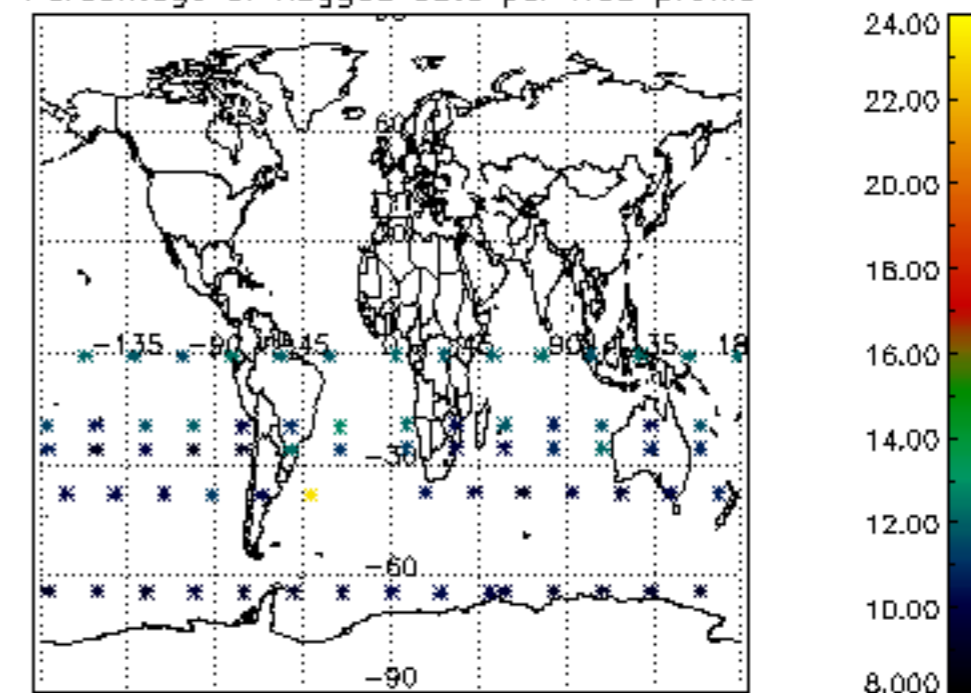
Percentage of flagged data per H2O profile

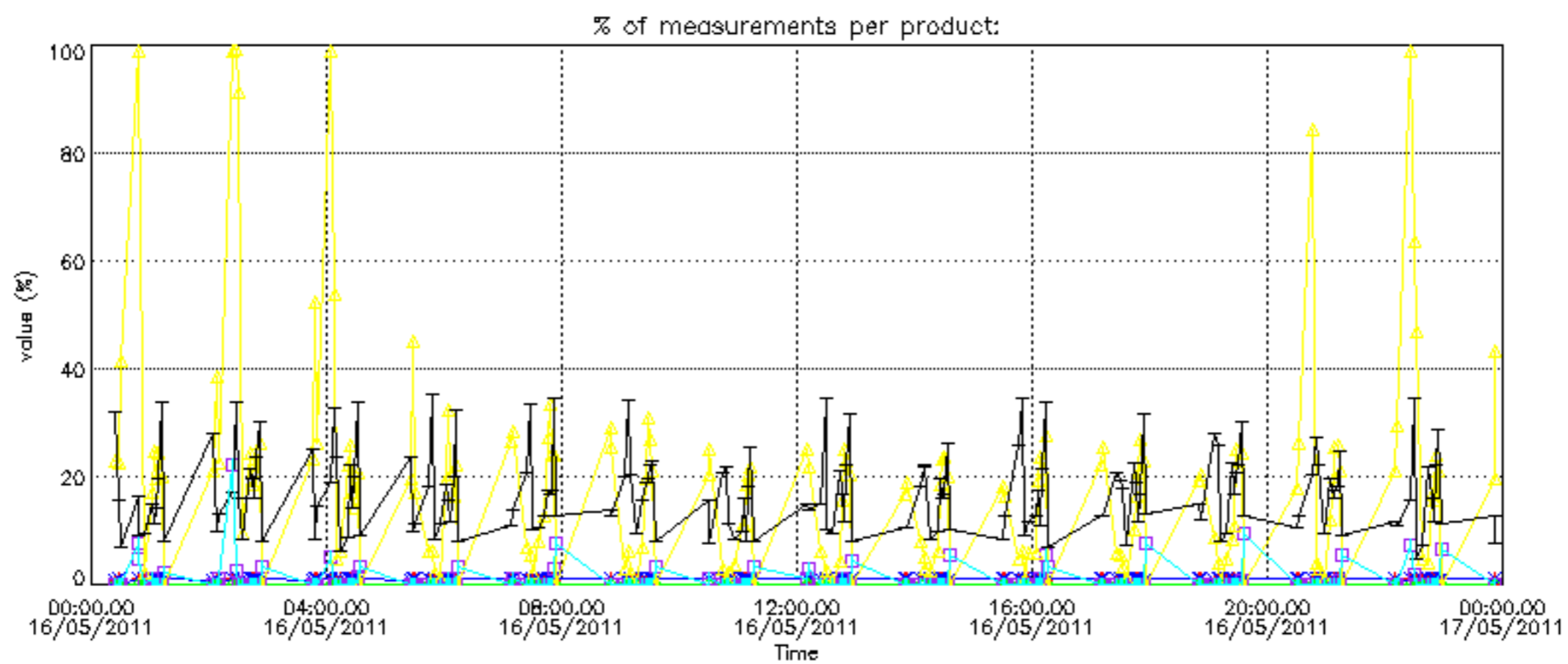
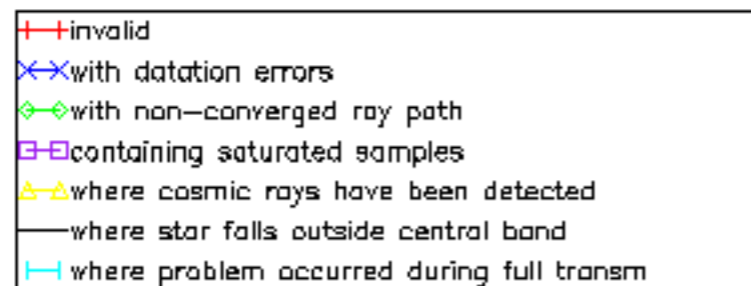


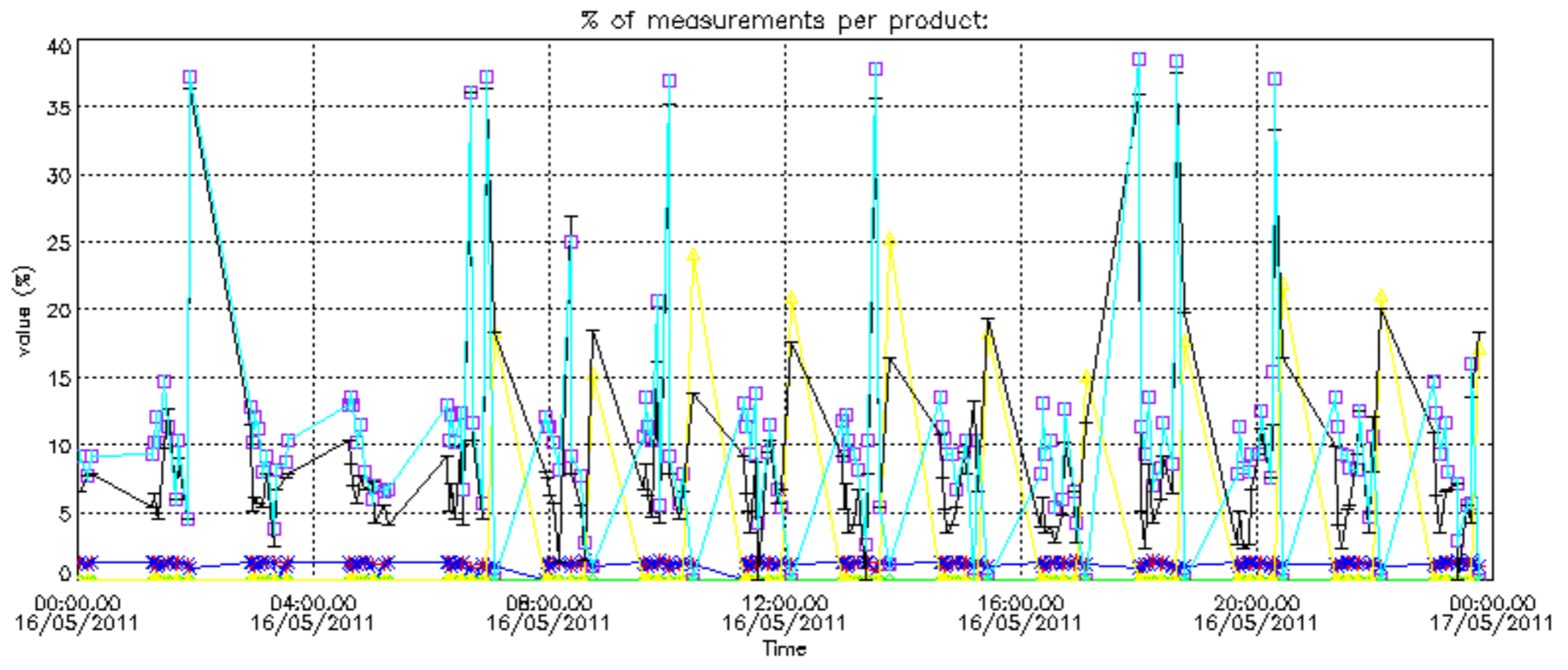
Percentage of flagged data per NO2 profile



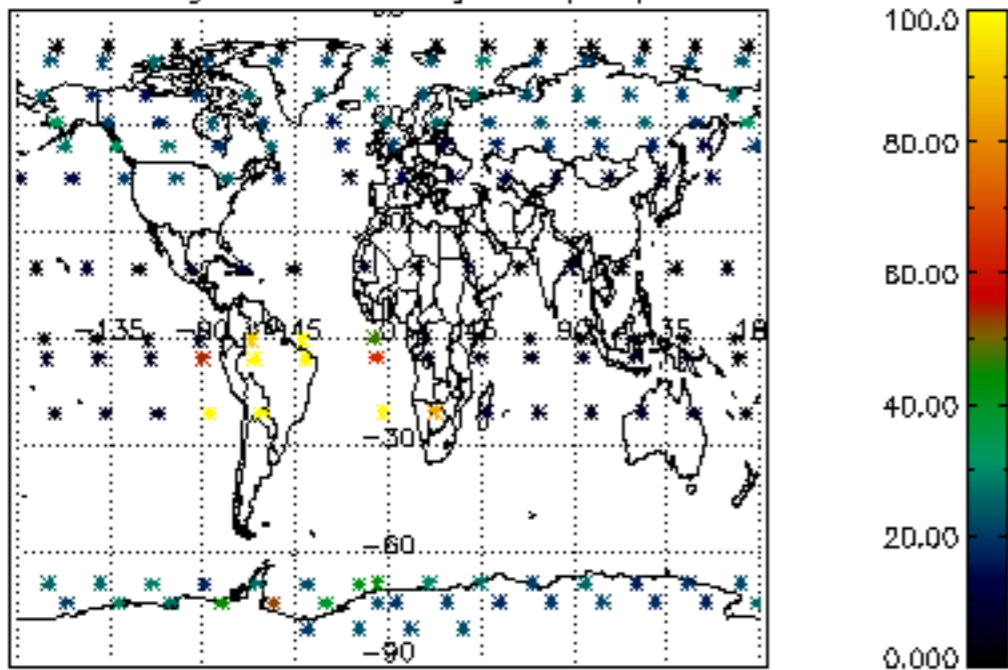
Percentage of flagged data per NO3 profile



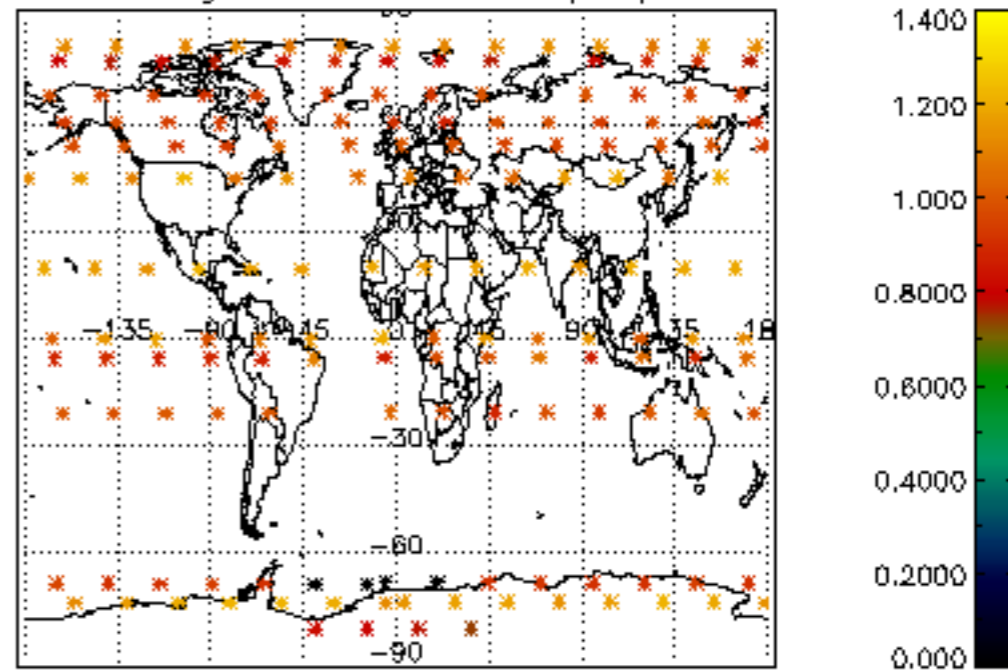




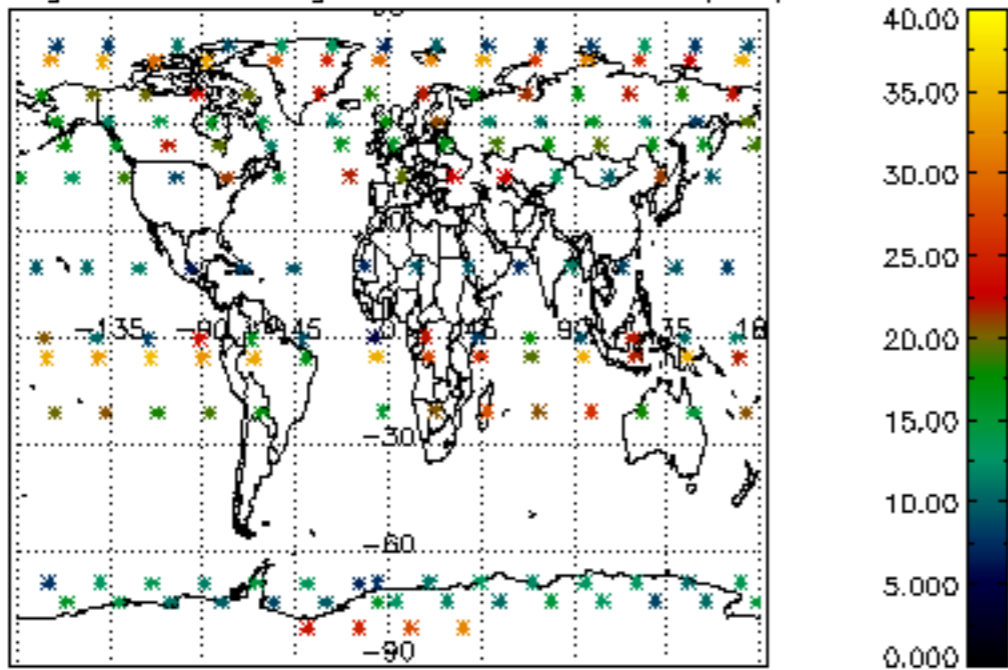
Percentage of cosmic ray hits per profile



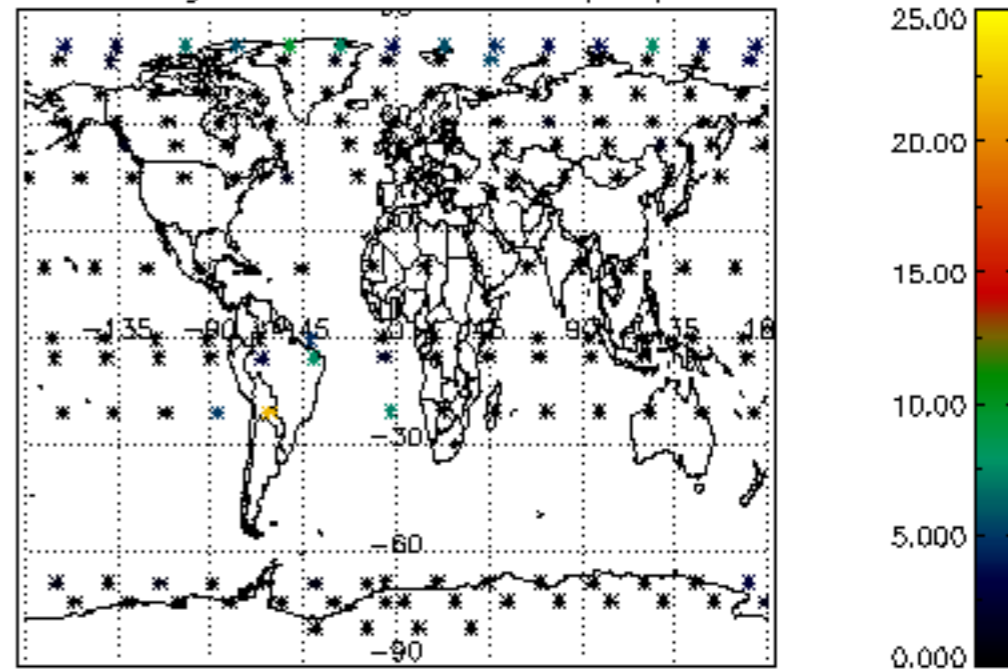
Percentage of datation errors per profile



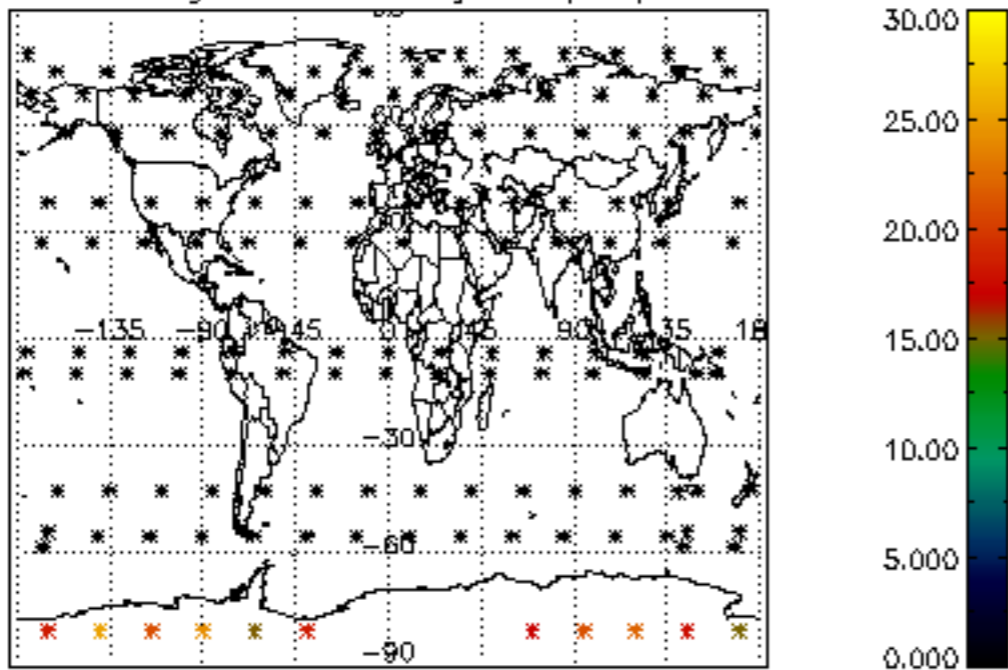
Percentage of star falling outside central band per profile



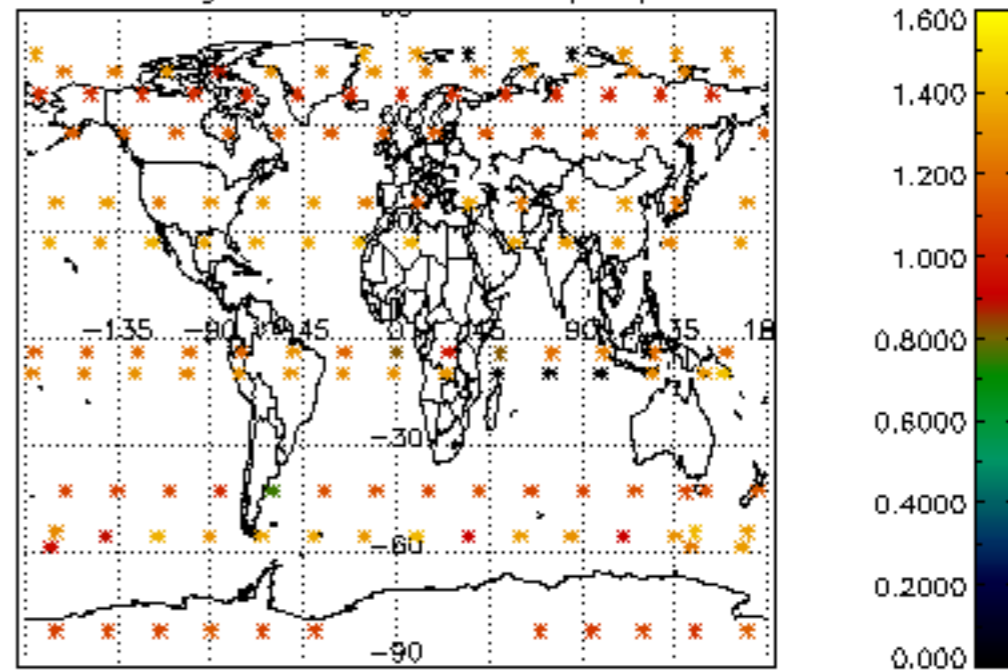
Percentage of saturation errors per profile



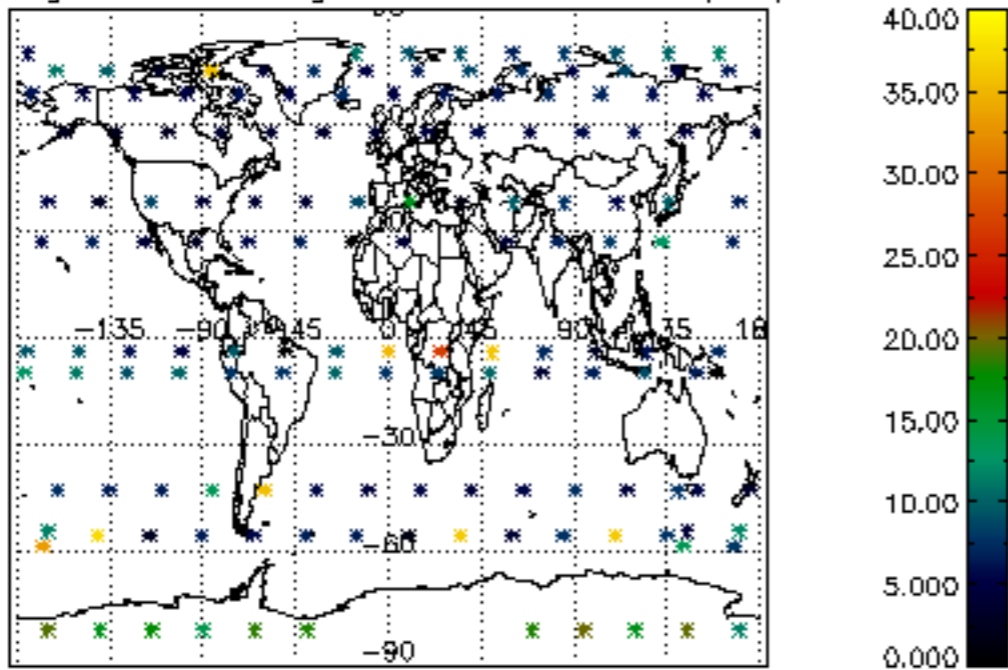
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

