

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	17APR2013 18:42:26
Data source version	GOMOS/6.01
Start time of products	22-09-2002 (22SEP2002 00:00:00)
Stop time of products	23-09-2002 (23SEP2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	442
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

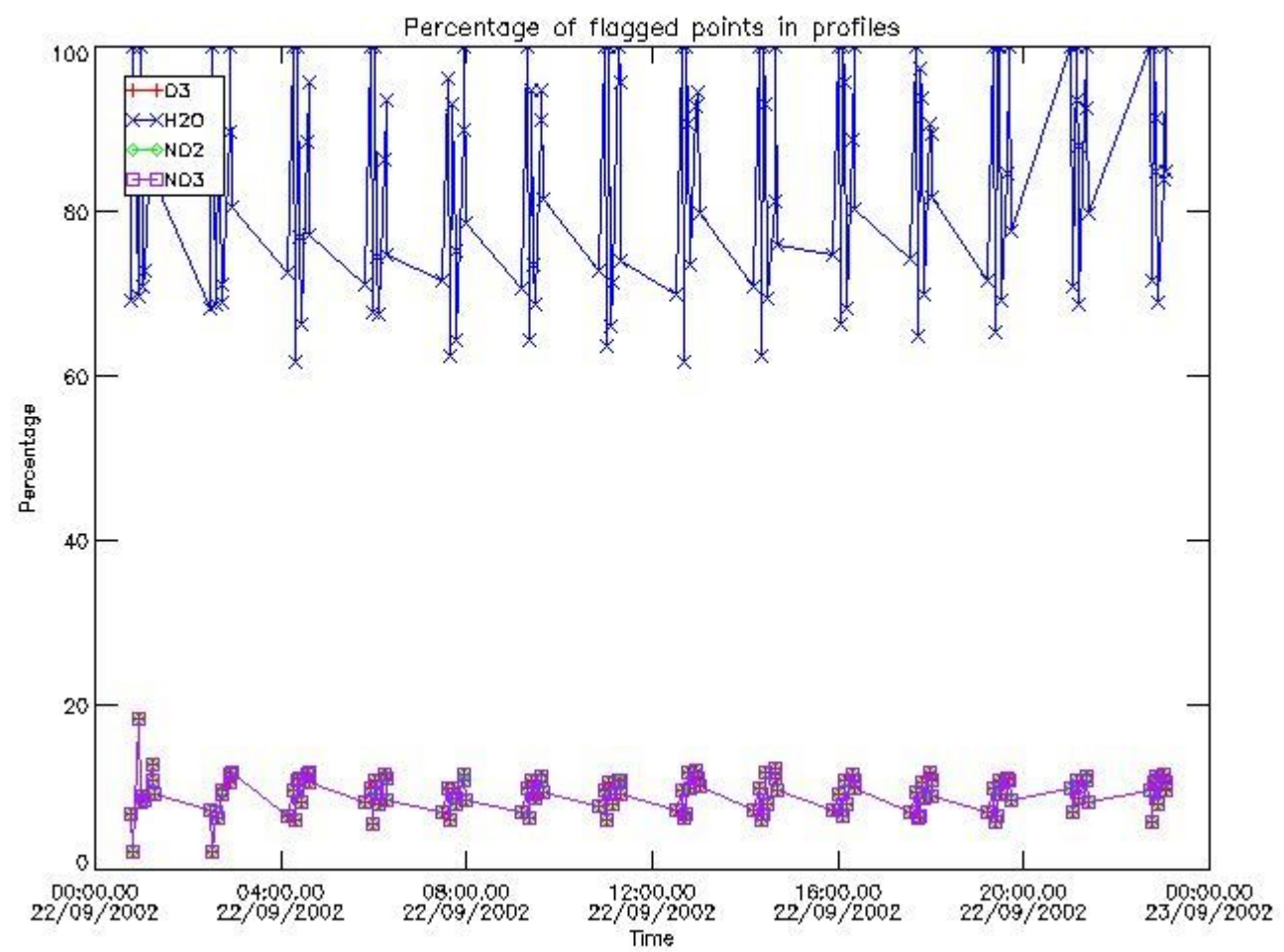
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020922_000240_000000472009_00374_02933_3023.N1	22-SEP-2002 00:02:40	Bright	47.000	93	53Bet Peg	2.5200	3100.0	94	2933	No
2	GOM_NL__2PRFIN20020922_000411_000000532009_00374_02933_3024.N1	22-SEP-2002 00:04:11	Bright	52.500	58	21Alp And	2.0730	11000.	105	2933	No
3	GOM_NL__2PRFIN20020922_000820_000000412009_00374_02933_3025.N1	22-SEP-2002 00:08:20	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	2933	No
4	GOM_NL__2PRFIN20020922_001224_000000452009_00374_02933_3026.N1	22-SEP-2002 00:12:24	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	2933	No
5	GOM_NL__2PRFIN20020922_001415_000000502009_00374_02933_3027.N1	22-SEP-2002 00:14:15	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	2933	No
6	GOM_NL__2PRFIN20020922_001956_000000412009_00374_02933_3028.N1	22-SEP-2002 00:19:56	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	2933	No
7	GOM_NL__2PRFIN20020922_002258_000000832009_00374_02933_3029.N1	22-SEP-2002 00:22:58	Bright	82.500	175	39Del Per	3.0100	19400.	165	2933	No
8	GOM_NL__2PRFIN20020922_002733_000000442009_00374_02933_3030.N1	22-SEP-2002 00:27:33	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2933	No
9	GOM_NL__2PRFIN20020922_002900_000000422009_00374_02933_3031.N1	22-SEP-2002 00:29:00	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	2933	No
10	GOM_NL__2PRFIN20020922_003137_000000722009_00374_02933_3032.N1	22-SEP-2002 00:31:37	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2933	No
11	GOM_NL__2PRFIN20020922_003525_000000862009_00374_02933_3033.N1	22-SEP-2002 00:35:25	Bright	86.000	107	37The Aur	2.6490	11000.	172	2933	No
12	GOM_NL__2PRFIN20020922_003809_000002552009_00374_02933_3034.N1	22-SEP-2002 00:38:09	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	2933	No
13	GOM_NL__2PRFIN20020922_004321_000001082009_00374_02933_3035.N1	22-SEP-2002 00:43:21	Straylight	108.00	151	13Mu Gem	2.8900	3000.0	216	2933	No
14	GOM_NL__2PRFIN20020922_004656_000000772009_00374_02933_3036.N1	22-SEP-2002 00:46:56	Dark	76.500	8	10Alp CMi	0.40000	6500.0	153	2933	No
15	GOM_NL__2PRFIN20020922_004919_000002552009_00374_02933_3037.N1	22-SEP-2002 00:49:19	Dark	255.00	176	23Zet Tau	3.0200	22000.	510	2933	No
16	GOM_NL__2PRFIN20020922_005652_000000832009_00374_02933_3038.N1	22-SEP-2002 00:56:52	Dark	83.000	1	9Alp CMa	-1.4400	11000.	166	2933	No
17	GOM_NL__2PRFIN20020922_005907_000000762009_00374_02933_3039.N1	22-SEP-2002 00:59:07	Dark	75.500	47	2Bet CMa	1.9760	28000.	151	2933	No
18	GOM_NL__2PRFIN20020922_010238_000000572009_00374_02933_3040.N1	22-SEP-2002 01:02:38	Dark	57.000	41	Eps Car	1.8600	4100.0	114	2933	No
19	GOM_NL__2PRFIN20020922_010438_000000612009_00375_02934_3010.N1	22-SEP-2002 01:04:38	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	2934	No
20	GOM_NL__2PRFIN20020922_011307_000000442009_00375_02934_3011.N1	22-SEP-2002 01:13:07	Dark	44.000	135	Bet Hyi	2.8200	5800.0	88	2934	No
21	GOM_NL__2PRFIN20020922_011439_000000472009_00375_02934_3012.N1	22-SEP-2002 01:14:39	Dark	47.000	143	Alp Hyi	2.8570	7200.0	94	2934	No
22	GOM_NL__2PRFIN20020922_011605_000000622009_00375_02934_3013.N1	22-SEP-2002 01:16:05	Dark	61.500	9	Alp Eri	0.45300	24000.	123	2934	No
23	GOM_NL__2PRFIN20020922_011836_000000462009_00375_02934_3014.N1	22-SEP-2002 01:18:36	Straylight	46.000	148	Alp Tuc	2.8780	4100.0	92	2934	No
24	GOM_NL__2PRFIN20020922_012141_000000482009_00375_02934_3015.N1	22-SEP-2002 01:21:41	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	2934	No
25	GOM_NL__2PRFIN20020922_012510_000000452009_00375_02934_3016.N1	22-SEP-2002 01:25:10	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	2934	No
26	GOM_NL__2PRFIN20020922_012639_000000482009_00375_02934_3017.N1	22-SEP-2002 01:26:39	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	2934	No
27	GOM_NL__2PRFIN20020922_012859_000000632009_00375_02934_3018.N1	22-SEP-2002 01:28:59	Twilight	63.000	52	16Bet Cet	2.0370	4500.0	126	2934	No
28	GOM_NL__2PRFIN20020922_013109_000000462009_00375_02934_3019.N1	22-SEP-2002 01:31:09	Twilight	45.500	142	49Del Cap	2.8500	8900.0	91	2934	No
29	GOM_NL__2PRFIN20020922_013519_000000452009_00375_02934_3020.N1	22-SEP-2002 01:35:19	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	2934	No
30	GOM_NL__2PRFIN20020922_013822_000000452009_00375_02934_3021.N1	22-SEP-2002 01:38:22	Bright	45.000	61	8Eps Peg	2.1000	3900.0	90	2934	No
31	GOM_NL__2PRFIN20020922_014026_000000542009_00375_02934_3022.N1	22-SEP-2002 01:40:26	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	2934	No
32	GOM_NL__2PRFIN20020922_014316_000000462009_00375_02934_3023.N1	22-SEP-2002 01:43:16	Bright	45.500	93	53Bet Peg	2.5200	3100.0	91	2934	No
33	GOM_NL__2PRFIN20020922_014446_000000532009_00375_02934_3024.N1	22-SEP-2002 01:44:46	Bright	53.000	58	21Alp And	2.0730	11000.	106	2934	No
34	GOM_NL__2PRFIN20020922_014856_000000472009_00375_02934_3025.N1	22-SEP-2002 01:48:56	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	2934	No
35	GOM_NL__2PRFIN20020922_015300_000000442009_00375_02934_3026.N1	22-SEP-2002 01:53:00	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	2934	No
36	GOM_NL__2PRFIN20020922_015450_000000502009_00375_02934_3027.N1	22-SEP-2002 01:54:50	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	2934	No
37	GOM_NL__2PRFIN20020922_020031_000000422009_00375_02934_3028.N1	22-SEP-2002 02:00:31	Bright	41.500	49	1Alp UMi	1.9900	6300.0	83	2934	No
38	GOM_NL__2PRFIN20020922_020333_000000792009_00375_02934_3029.N1	22-SEP-2002 02:03:33	Bright	79.000	175	39Del Per	3.0100	19400.	158	2934	No
39	GOM_NL__2PRFIN20020922_020808_000000442009_00375_02934_3030.N1	22-SEP-2002 02:08:08	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2934	No
40	GOM_NL__2PRFIN20020922_020936_000000432009_00375_02934_3031.N1	22-SEP-2002 02:09:36	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	2934	No
41	GOM_NL__2PRFIN20020922_021212_000000722009_00375_02934_3032.N1	22-SEP-2002 02:12:12	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2934	No
42	GOM_NL__2PRFIN20020922_021600_000000802009_00375_02934_3033.N1	22-SEP-2002 02:16:00	Bright	79.500	107	37The Aur	2.6490	11000.	159	2934	No

397	GOM_NL__2PRFIN20020922_213352_000000502009_00387_02946_3187.N1	22-SEP-2002 21:33:52	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	2946	No
398	GOM_NL__2PRFIN20020922_213611_000000652009_00387_02946_3188.N1	22-SEP-2002 21:36:11	Twl_and_stray	65.000	52	16Bet Cet	2.0370	4500.0	130	2946	No
399	GOM_NL__2PRFIN20020922_213823_000000472009_00387_02946_3189.N1	22-SEP-2002 21:38:23	Twl_and_stray	46.500	142	49Del Cap	2.8500	8900.0	93	2946	No
400	GOM_NL__2PRFIN20020922_214232_000000452009_00387_02946_3190.N1	22-SEP-2002 21:42:32	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	2946	No
401	GOM_NL__2PRFIN20020922_214535_000000462009_00387_02946_3191.N1	22-SEP-2002 21:45:35	Bright	45.500	61	8Eps Peg	2.1000	3900.0	91	2946	No
402	GOM_NL__2PRFIN20020922_214731_000000552009_00387_02946_3192.N1	22-SEP-2002 21:47:31	Bright	55.000	140	88Gam Peg	2.8340	26000.	110	2946	No
403	GOM_NL__2PRFIN20020922_215024_000000472009_00387_02946_3193.N1	22-SEP-2002 21:50:24	Bright	47.000	93	53Bet Peg	2.5200	3100.0	94	2946	No
404	GOM_NL__2PRFIN20020922_215309_000000462009_00387_02946_3194.N1	22-SEP-2002 21:53:09	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	2946	No
405	GOM_NL__2PRFIN20020922_215611_000000462009_00387_02946_3195.N1	22-SEP-2002 21:56:11	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	2946	No
406	GOM_NL__2PRFIN20020922_220012_000000462009_00387_02946_3196.N1	22-SEP-2002 22:00:12	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	2946	No
407	GOM_NL__2PRFIN20020922_220155_000000512009_00387_02946_3197.N1	22-SEP-2002 22:01:55	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	2946	No
408	GOM_NL__2PRFIN20020922_220741_000000432009_00387_02946_3198.N1	22-SEP-2002 22:07:41	Bright	43.000	49	1Alp UMi	1.9900	6300.0	86	2946	No
409	GOM_NL__2PRFIN20020922_220910_000000422009_00387_02946_3199.N1	22-SEP-2002 22:09:10	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	2946	No
410	GOM_NL__2PRFIN20020922_221522_000000452009_00387_02946_3200.N1	22-SEP-2002 22:15:22	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	2946	No
411	GOM_NL__2PRFIN20020922_221650_000000442009_00387_02946_3201.N1	22-SEP-2002 22:16:50	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	2946	No
412	GOM_NL__2PRFIN20020922_221918_000000722009_00387_02946_3202.N1	22-SEP-2002 22:19:18	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2946	No
413	GOM_NL__2PRFIN20020922_222525_000000612009_00387_02946_3203.N1	22-SEP-2002 22:25:25	Bright	60.500	24	66Alp Gem	1.5800	10200.	121	2946	No
414	GOM_NL__2PRFIN20020922_223022_000002552009_00387_02946_3204.N1	22-SEP-2002 22:30:22	Straylight	255.00	28	12Bet Tau	1.6500	15200.	510	2946	No
415	GOM_NL__2PRFIN20020922_224212_000000532009_00387_02946_3205.N1	22-SEP-2002 22:42:12	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	2946	No
416	GOM_NL__2PRFIN20020922_224456_000000882009_00387_02946_3206.N1	22-SEP-2002 22:44:56	Dark	88.000	1	9Alp CMa	-1.4400	11000.	176	2946	No
417	GOM_NL__2PRFIN20020922_224750_000000492009_00387_02946_3207.N1	22-SEP-2002 22:47:50	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	2946	No
418	GOM_NL__2PRFIN20020922_224943_000000472009_00387_02946_3208.N1	22-SEP-2002 22:49:43	Dark	46.500	71	lot Car	2.2460	7700.0	93	2946	No
419	GOM_NL__2PRFIN20020922_225111_000000502009_00387_02946_3209.N1	22-SEP-2002 22:51:11	Dark	49.500	161	Tau Pup	2.9310	4500.0	99	2946	No
420	GOM_NL__2PRFIN20020922_225233_000000652009_00388_02947_3048.N1	22-SEP-2002 22:52:33	Dark	65.000	2	Alp Car	-0.73600	7000.0	130	2947	No
421	GOM_NL__2PRFIN20020922_230056_000000442009_00388_02947_3049.N1	22-SEP-2002 23:00:56	Dark	44.000	135	Bet Hyi	2.8200	5800.0	88	2947	No
422	GOM_NL__2PRFIN20020922_230231_000000482009_00388_02947_3050.N1	22-SEP-2002 23:02:31	Dark	48.000	143	Alp Hyi	2.8570	7200.0	96	2947	No
423	GOM_NL__2PRFIN20020922_230357_000000532009_00388_02947_3051.N1	22-SEP-2002 23:03:57	Dark	53.000	9	Alp Eri	0.45300	24000.	106	2947	No
424	GOM_NL__2PRFIN20020922_230624_000000462009_00388_02947_3052.N1	22-SEP-2002 23:06:24	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	2947	No
425	GOM_NL__2PRFIN20020922_230953_000000542009_00388_02947_3053.N1	22-SEP-2002 23:09:53	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	2947	No
426	GOM_NL__2PRFIN20020922_231259_000000472009_00388_02947_3054.N1	22-SEP-2002 23:12:59	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	2947	No
427	GOM_NL__2PRFIN20020922_231428_000000502009_00388_02947_3055.N1	22-SEP-2002 23:14:28	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	2947	No
428	GOM_NL__2PRFIN20020922_231647_000000632009_00388_02947_3056.N1	22-SEP-2002 23:16:47	Twl_and_stray	63.000	52	16Bet Cet	2.0370	4500.0	126	2947	No
429	GOM_NL__2PRFIN20020922_231859_000000452009_00388_02947_3057.N1	22-SEP-2002 23:18:59	Twl_and_stray	45.000	142	49Del Cap	2.8500	8900.0	90	2947	No
430	GOM_NL__2PRFIN20020922_232308_000000442009_00388_02947_3058.N1	22-SEP-2002 23:23:08	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	2947	No
431	GOM_NL__2PRFIN20020922_232611_000000462009_00388_02947_3059.N1	22-SEP-2002 23:26:11	Bright	46.000	61	8Eps Peg	2.1000	3900.0	92	2947	No
432	GOM_NL__2PRFIN20020922_232807_000000522009_00388_02947_3060.N1	22-SEP-2002 23:28:07	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	2947	No
433	GOM_NL__2PRFIN20020922_233101_000000462009_00388_02947_3061.N1	22-SEP-2002 23:31:01	Bright	46.000	93	53Bet Peg	2.5200	3100.0	92	2947	No
434	GOM_NL__2PRFIN20020922_233346_000000432009_00388_02947_3062.N1	22-SEP-2002 23:33:46	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	2947	No
435	GOM_NL__2PRFIN20020922_233647_000000442009_00388_02947_3063.N1	22-SEP-2002 23:36:47	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	2947	No
436	GOM_NL__2PRFIN20020922_234048_000000442009_00388_02947_3064.N1	22-SEP-2002 23:40:48	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	2947	No
437	GOM_NL__2PRFIN20020922_234231_000000472009_00388_02947_3065.N1	22-SEP-2002 23:42:31	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	2947	No
438	GOM_NL__2PRFIN20020922_234818_000000462009_00388_02947_3066.N1	22-SEP-2002 23:48:18	Bright	45.500	49	1Alp UMi	1.9900	6300.0	91	2947	No
439	GOM_NL__2PRFIN20020922_234946_000000452009_00388_02947_3067.N1	22-SEP-2002 23:49:46	Bright	44.500	60	7Bet UMi	2.0810	3950.0	89	2947	No
440	GOM_NL__2PRFIN20020922_235558_000000442009_00388_02947_3068.N1	22-SEP-2002 23:55:58	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2947	No
441	GOM_NL__2PRFIN20020922_235726_000000442009_00388_02947_3069.N1	22-SEP-2002 23:57:26	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	2947	No
442	GOM_NL__2PRFIN20020922_235954_000000742009_00388_02947_3070.N1	22-SEP-2002 23:59:54	Bright	74.000	42	34Bet Aur	1.9000	10200.	148	2947	No

3. Quality information per product

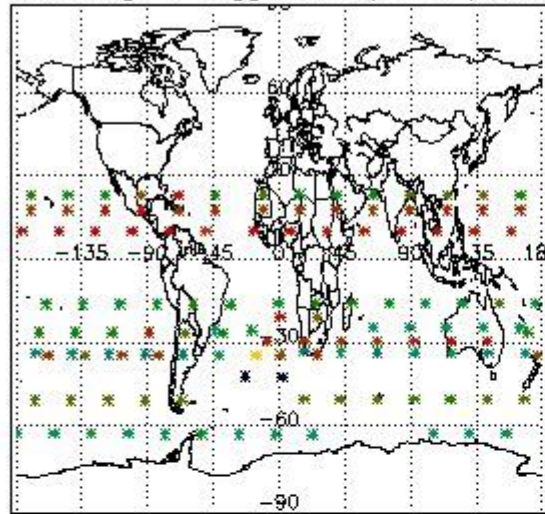
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

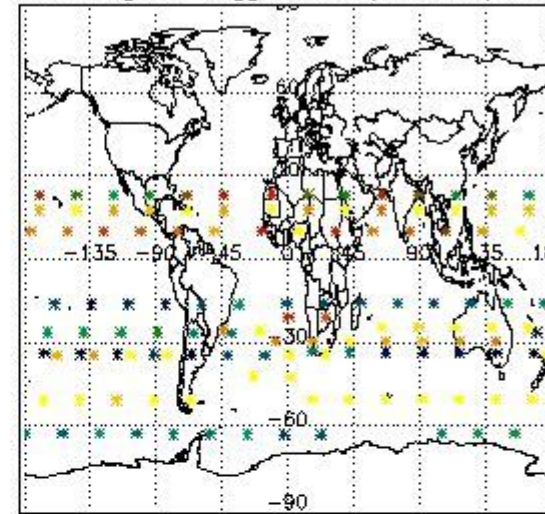


3.2 Plot quality information per product (world map)

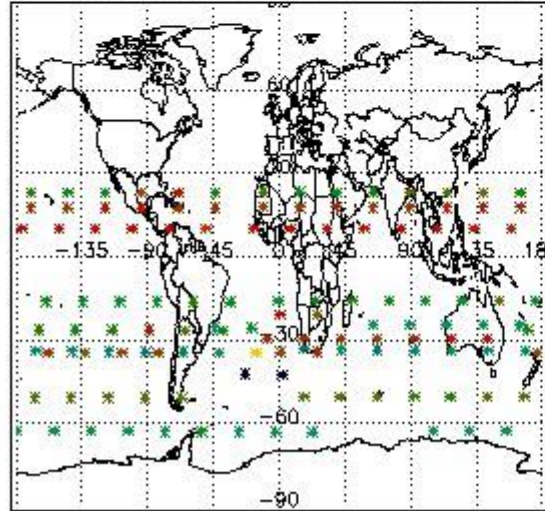
Percentage of flagged data per O3 profile



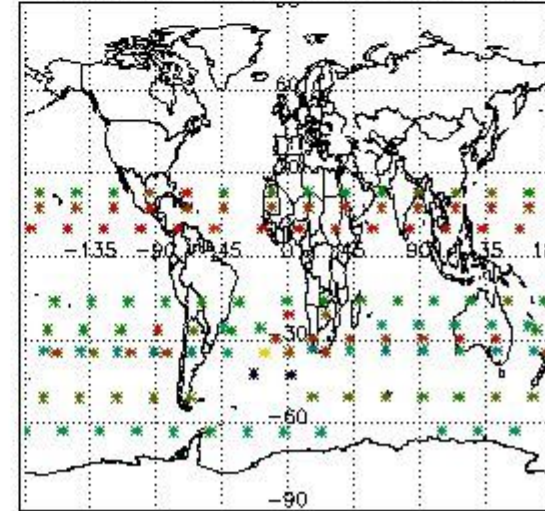
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

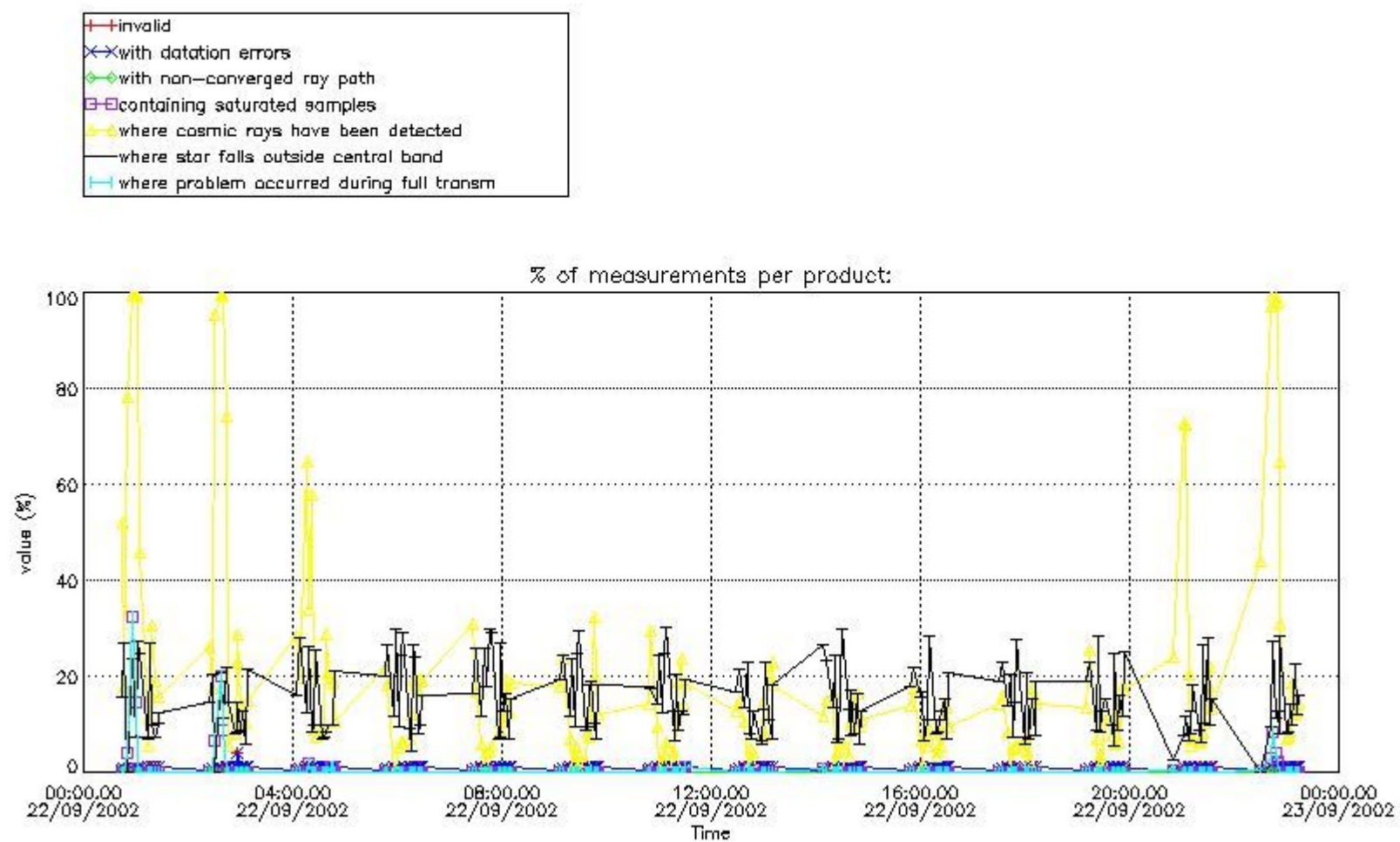


4. Level 1 quality information per product

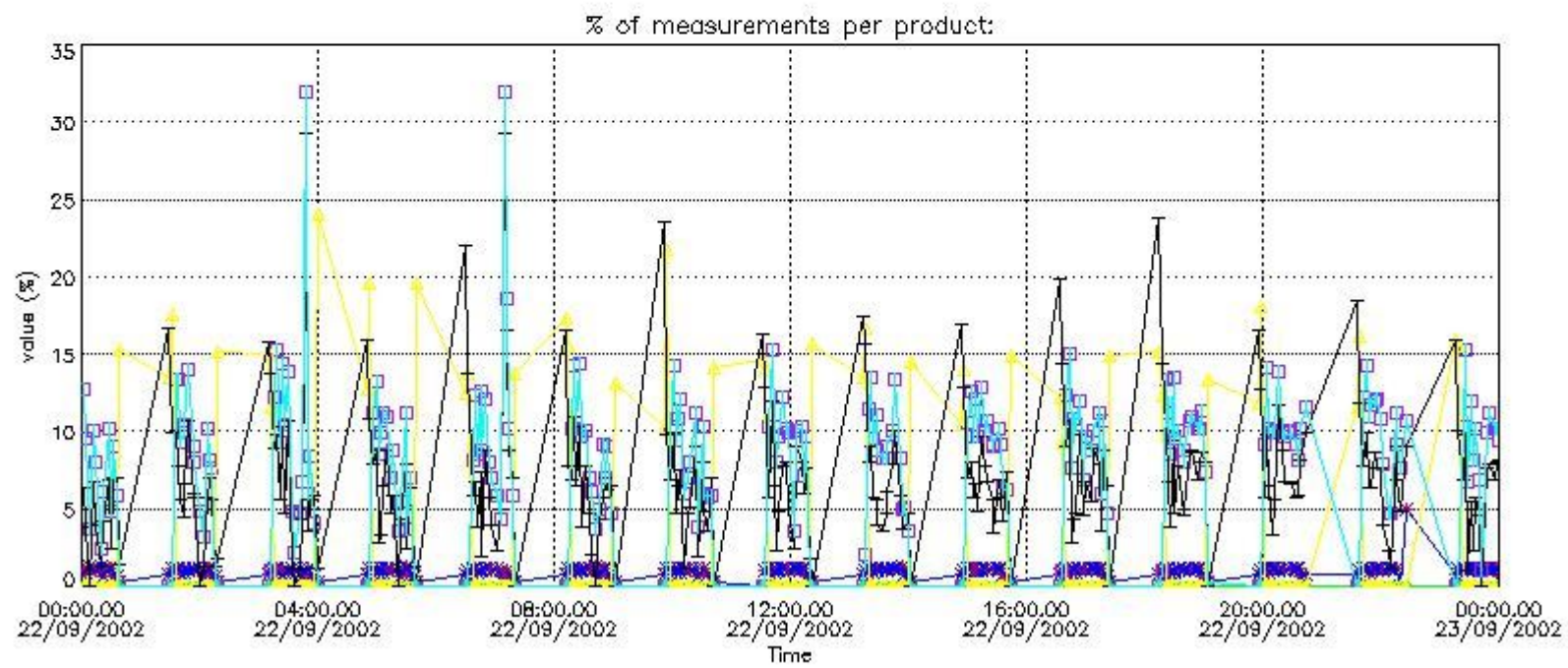
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



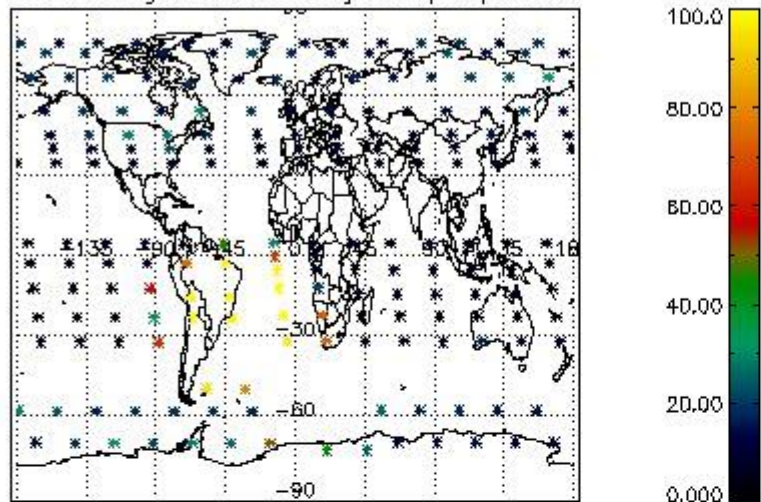
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



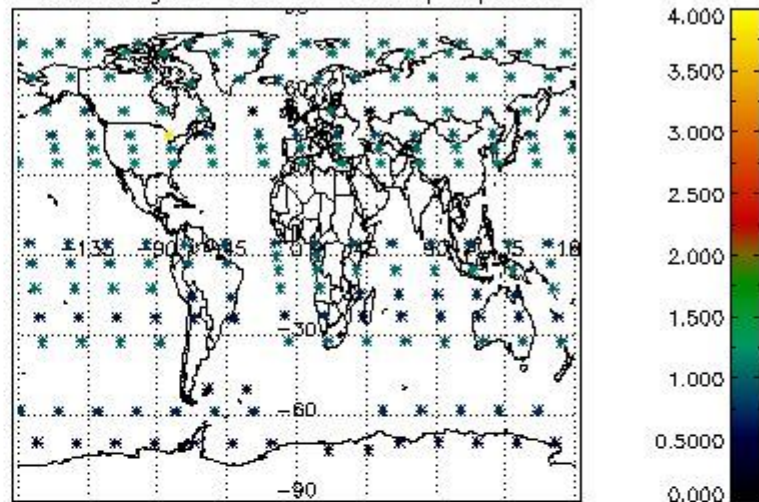
4.2 Plot quality information per product coming from level 1b processing (world map)

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

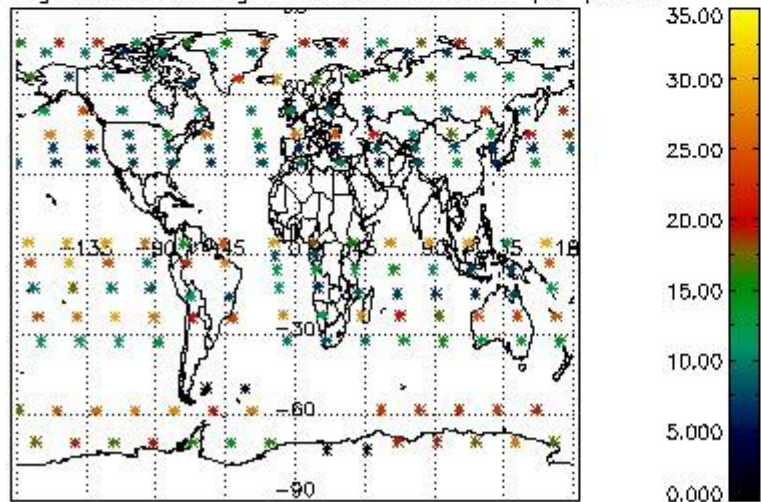
Percentage of cosmic ray hits per profile



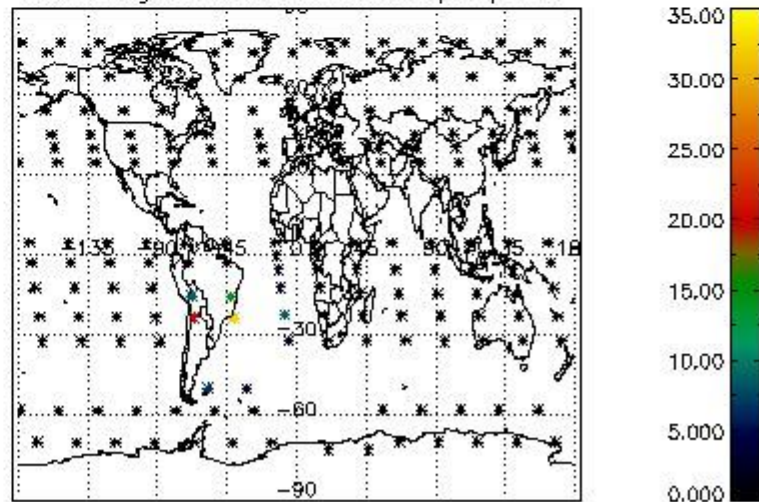
Percentage of datation errors per profile



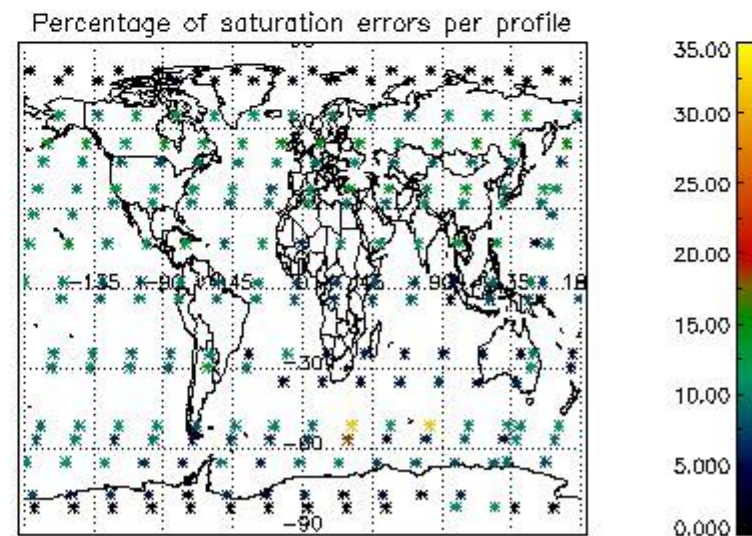
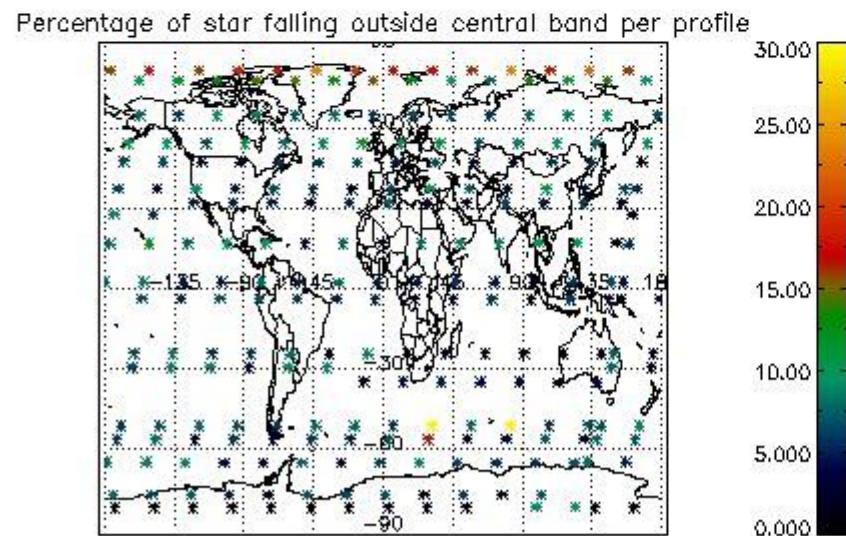
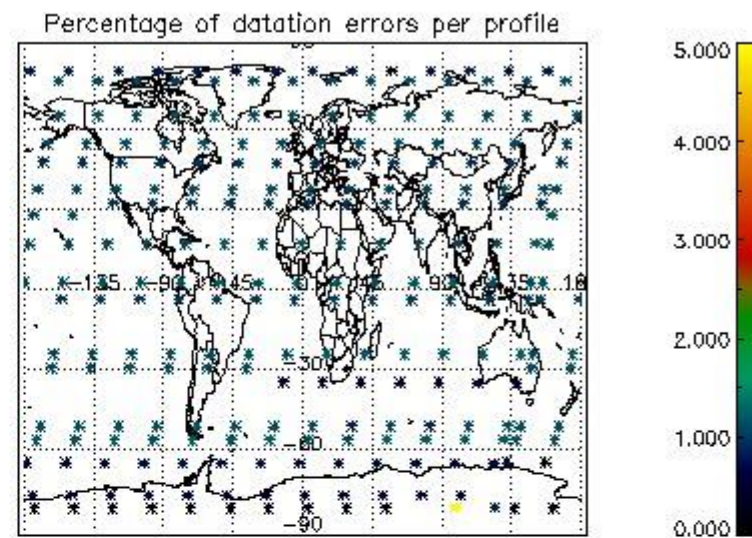
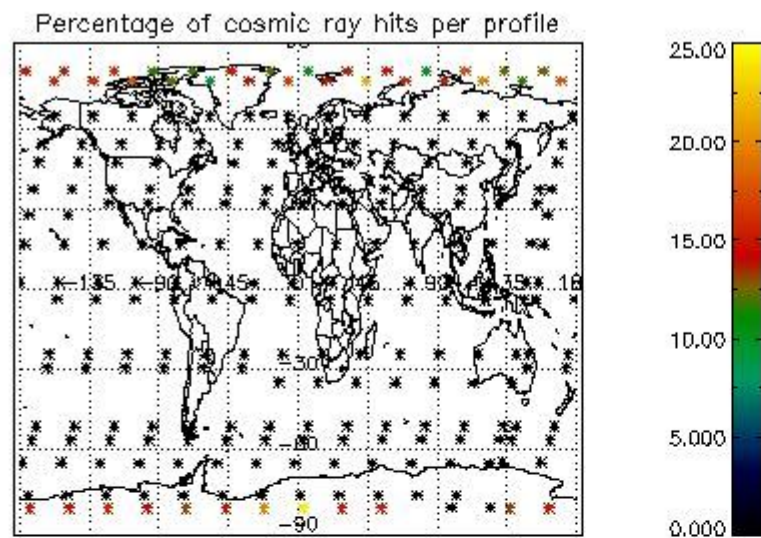
Percentage of star falling outside central band per profile



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

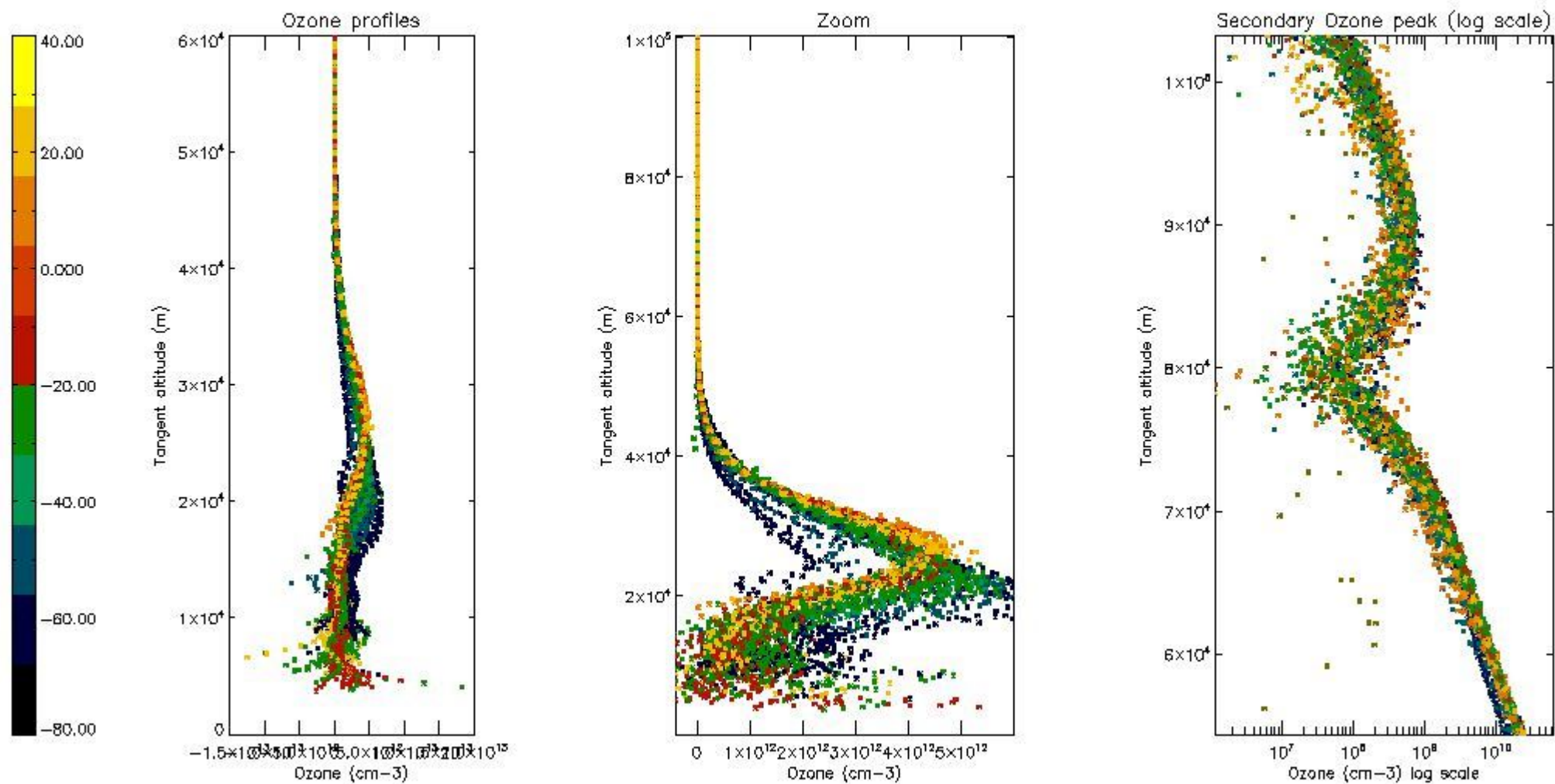
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	14
STD < 5	10

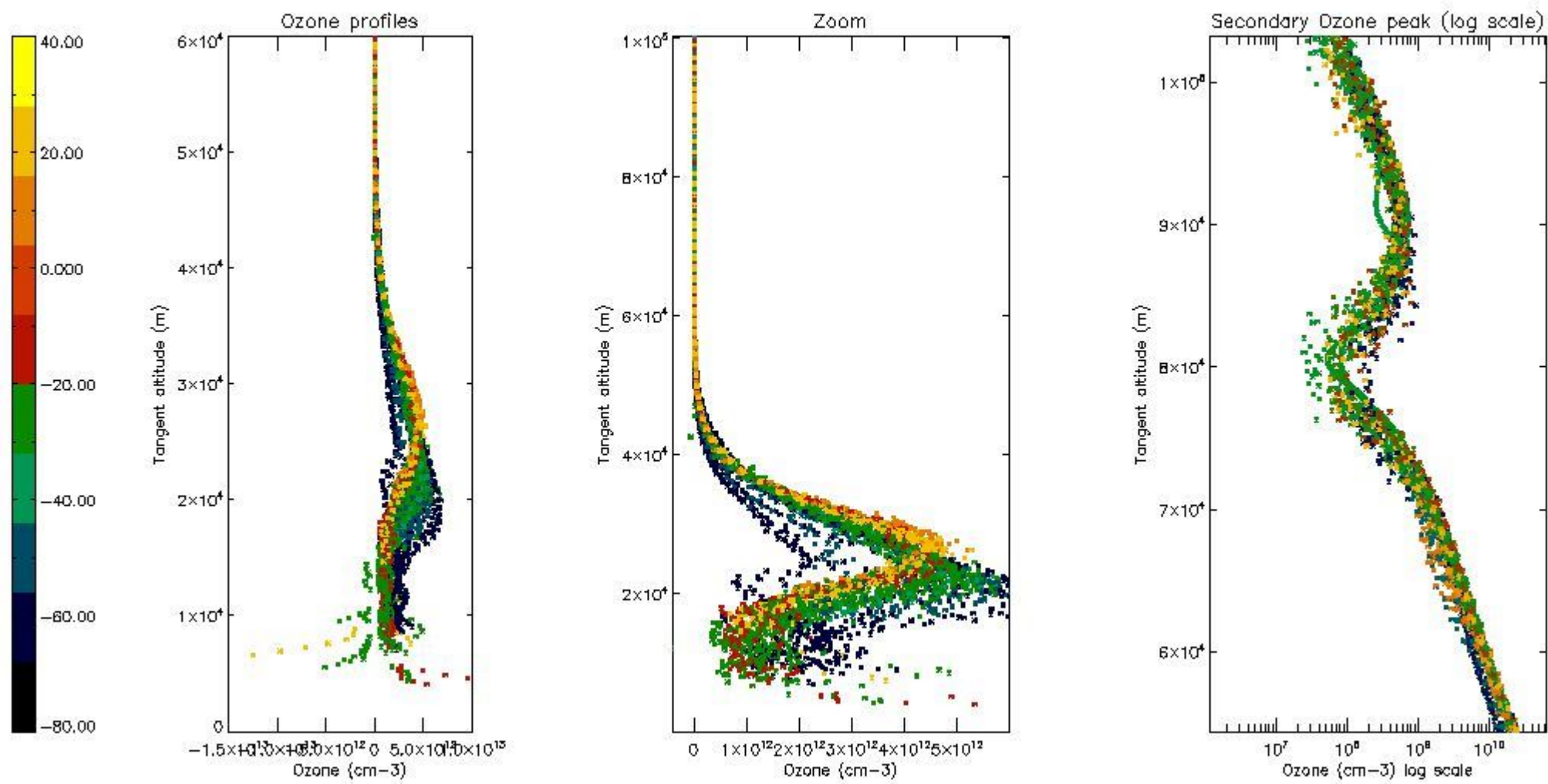
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



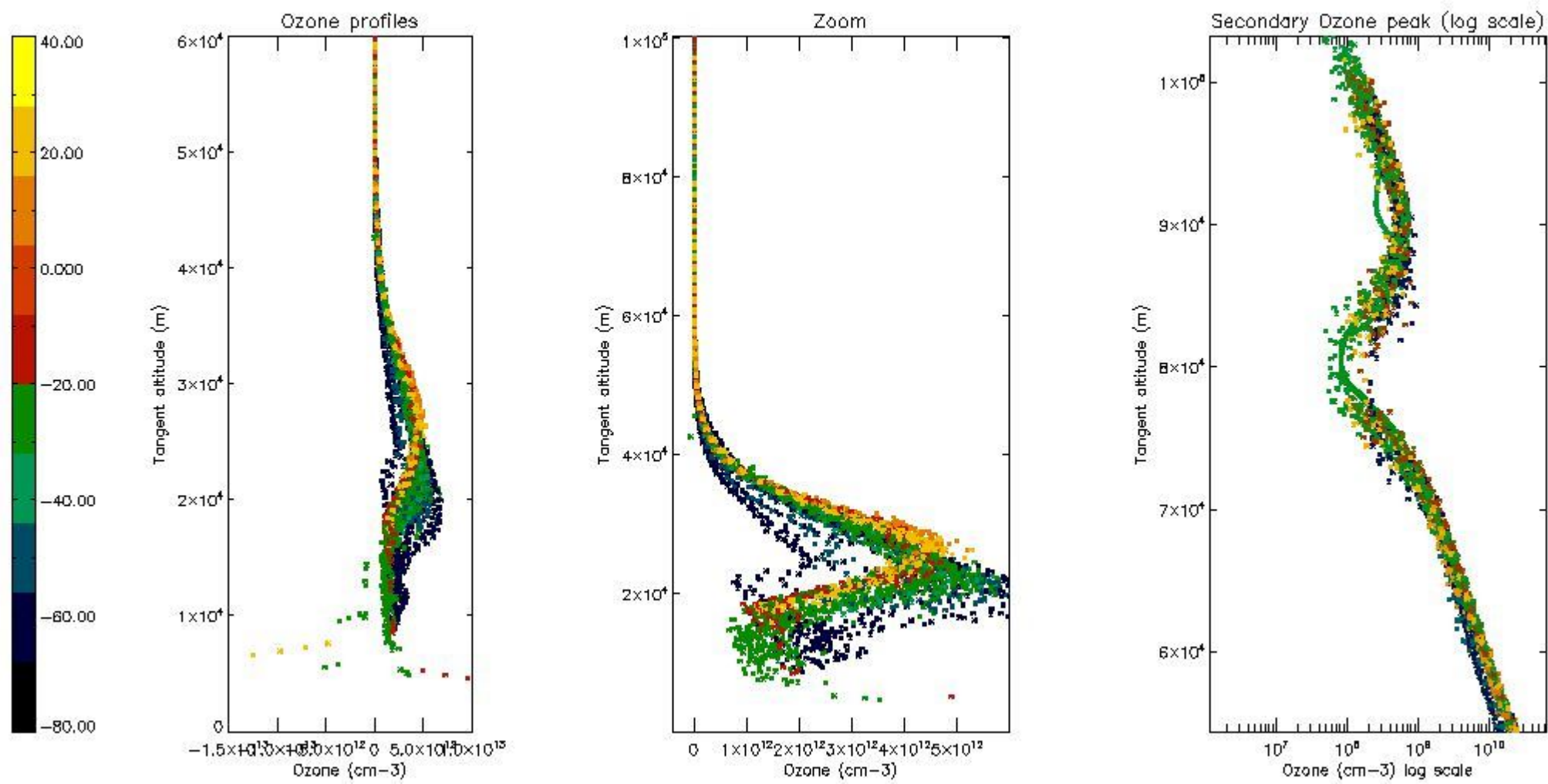
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



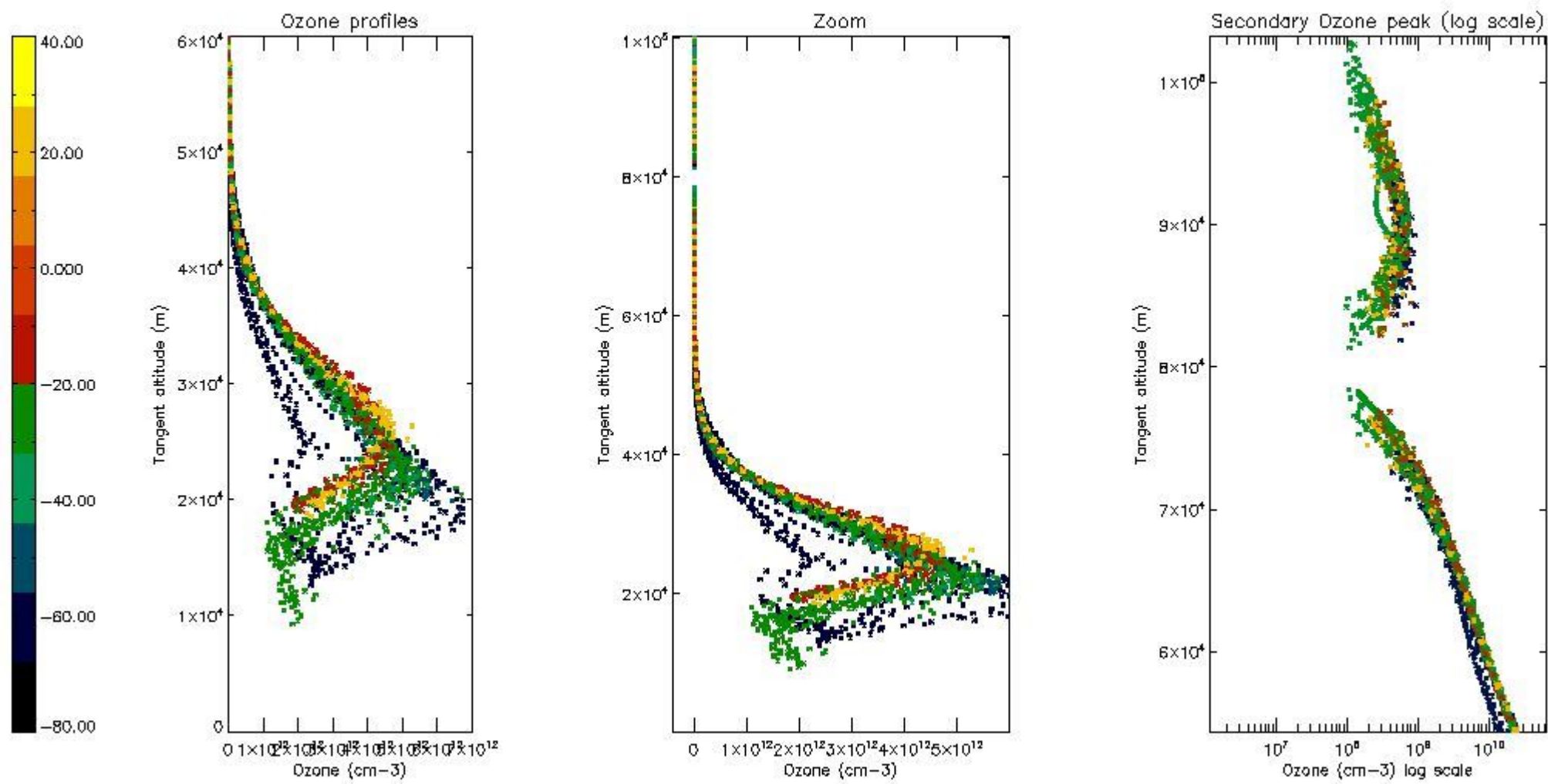
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



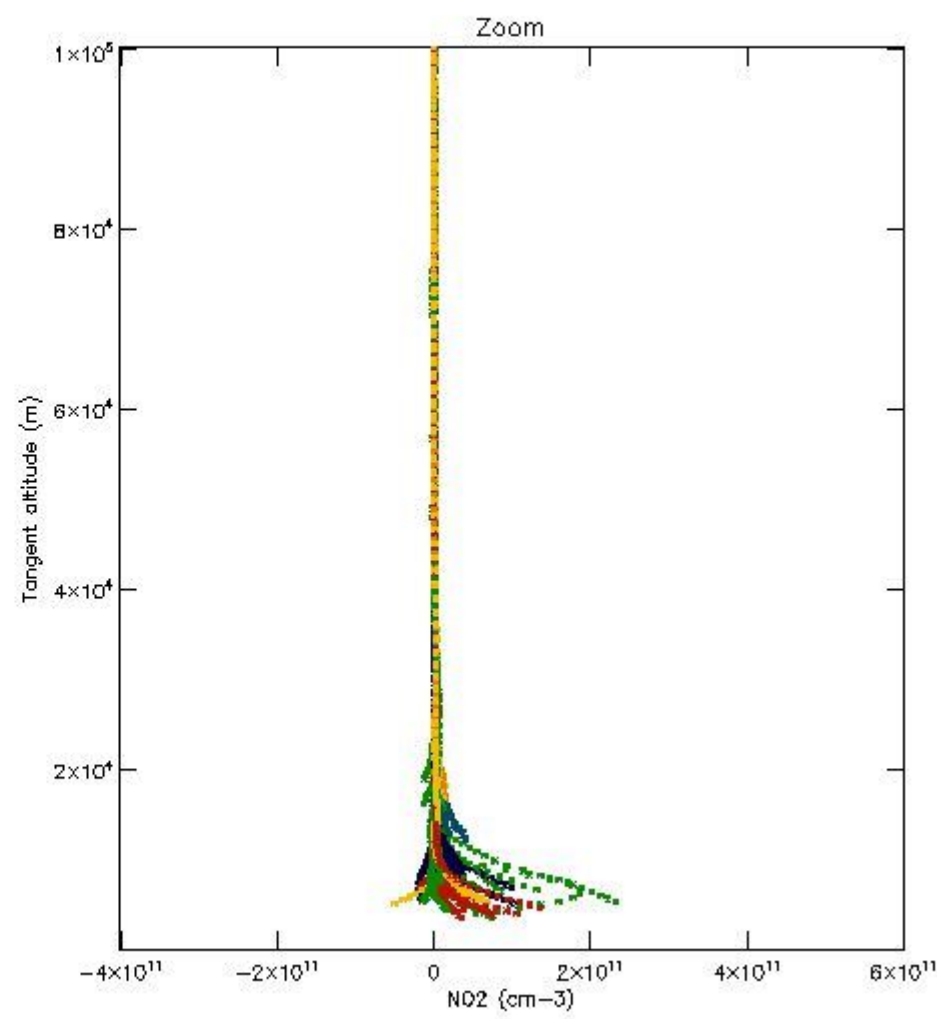
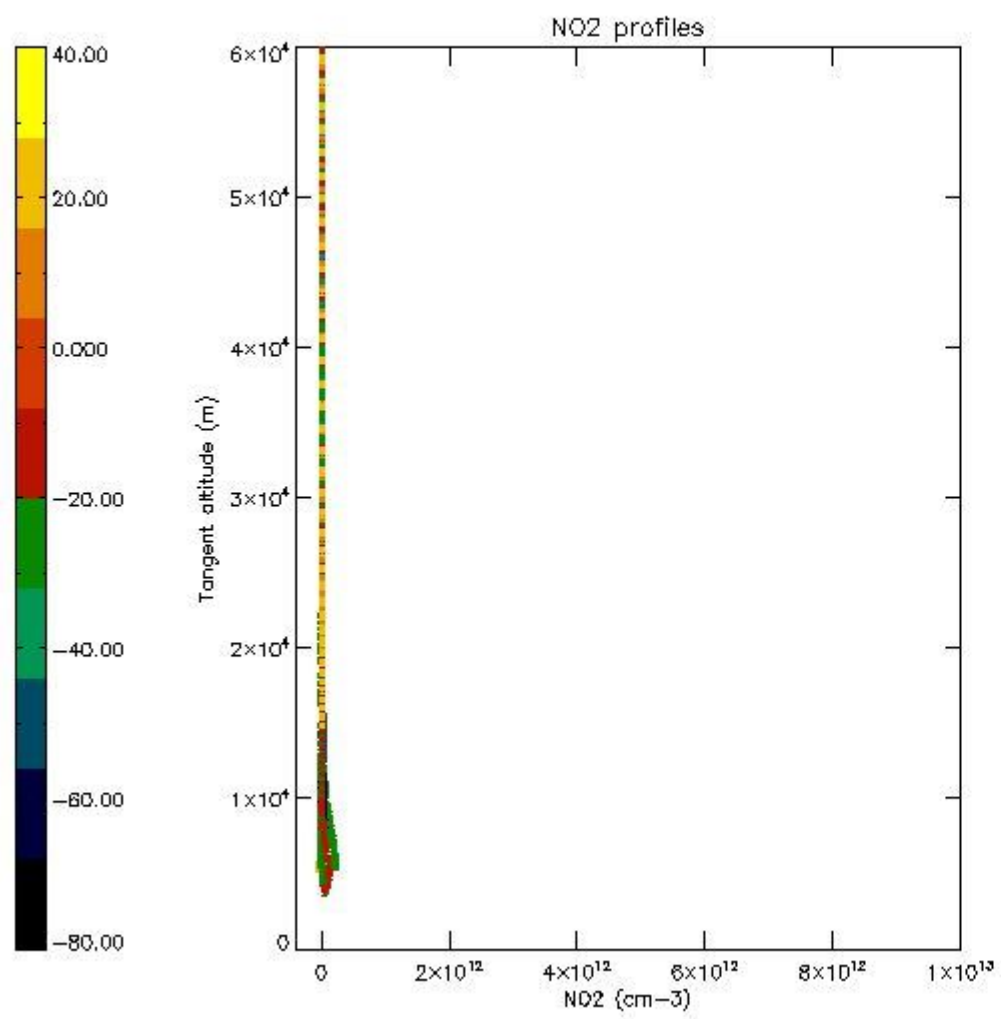
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



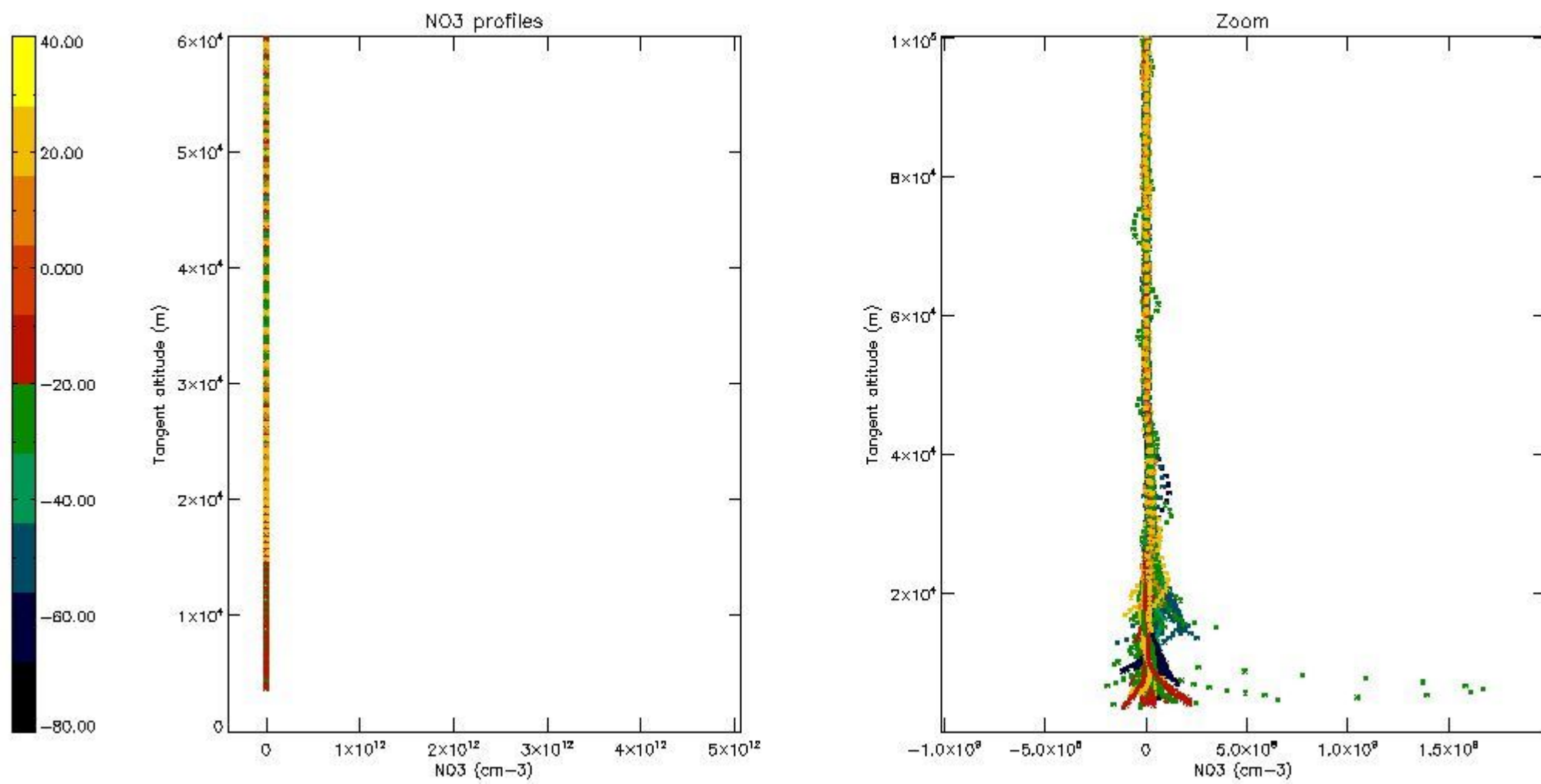
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



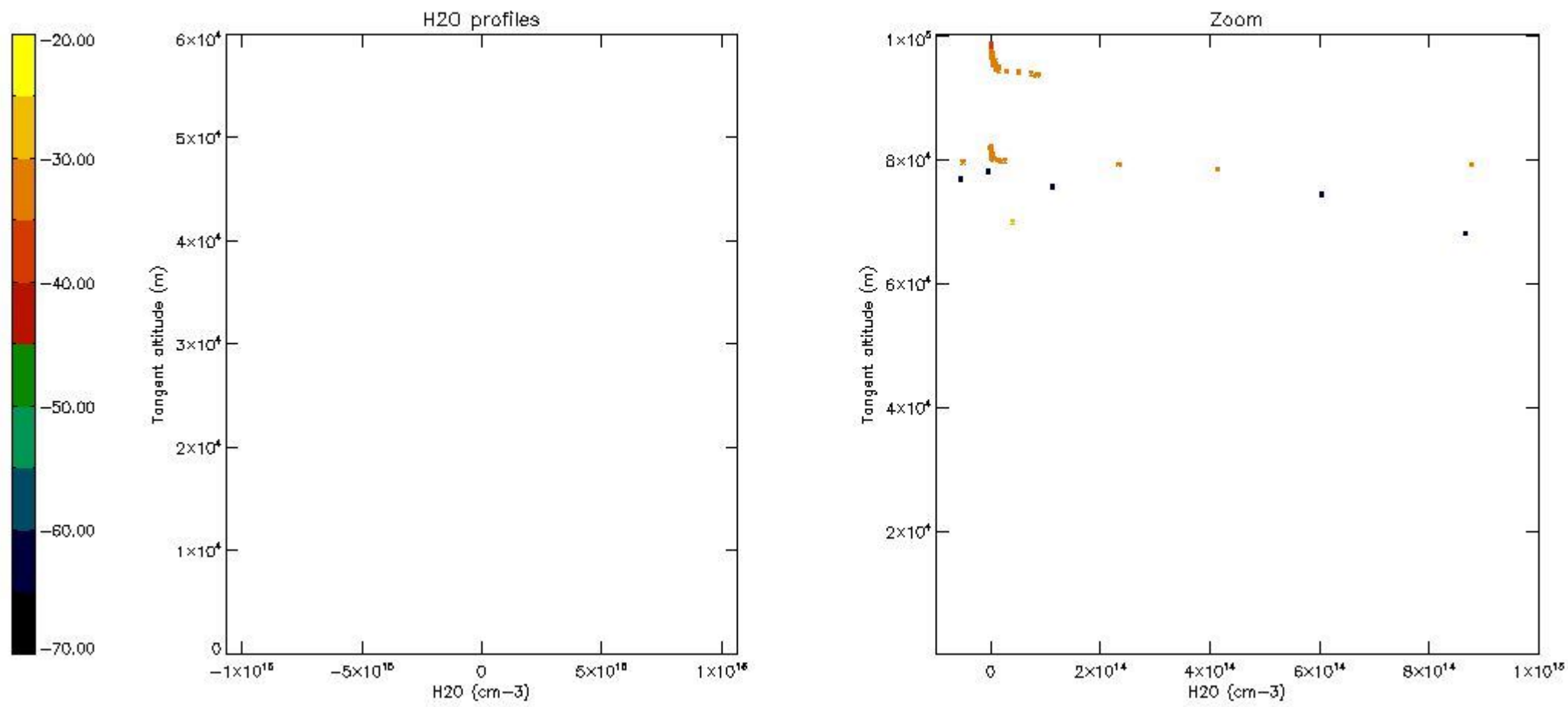
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	22-SEP-2002 00:02:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2002 00:02:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2002 00:02:40

GOMOS Level 2 Daily Report

SUMMARY

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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 \(dark without errors\)](#)

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

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

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[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	17APR2013 18:42:26
Data source version	GOMOS/6.01
Start time of products	22-09-2002 (22SEP2002 00:00:00)
Stop time of products	23-09-2002 (23SEP2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	442
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

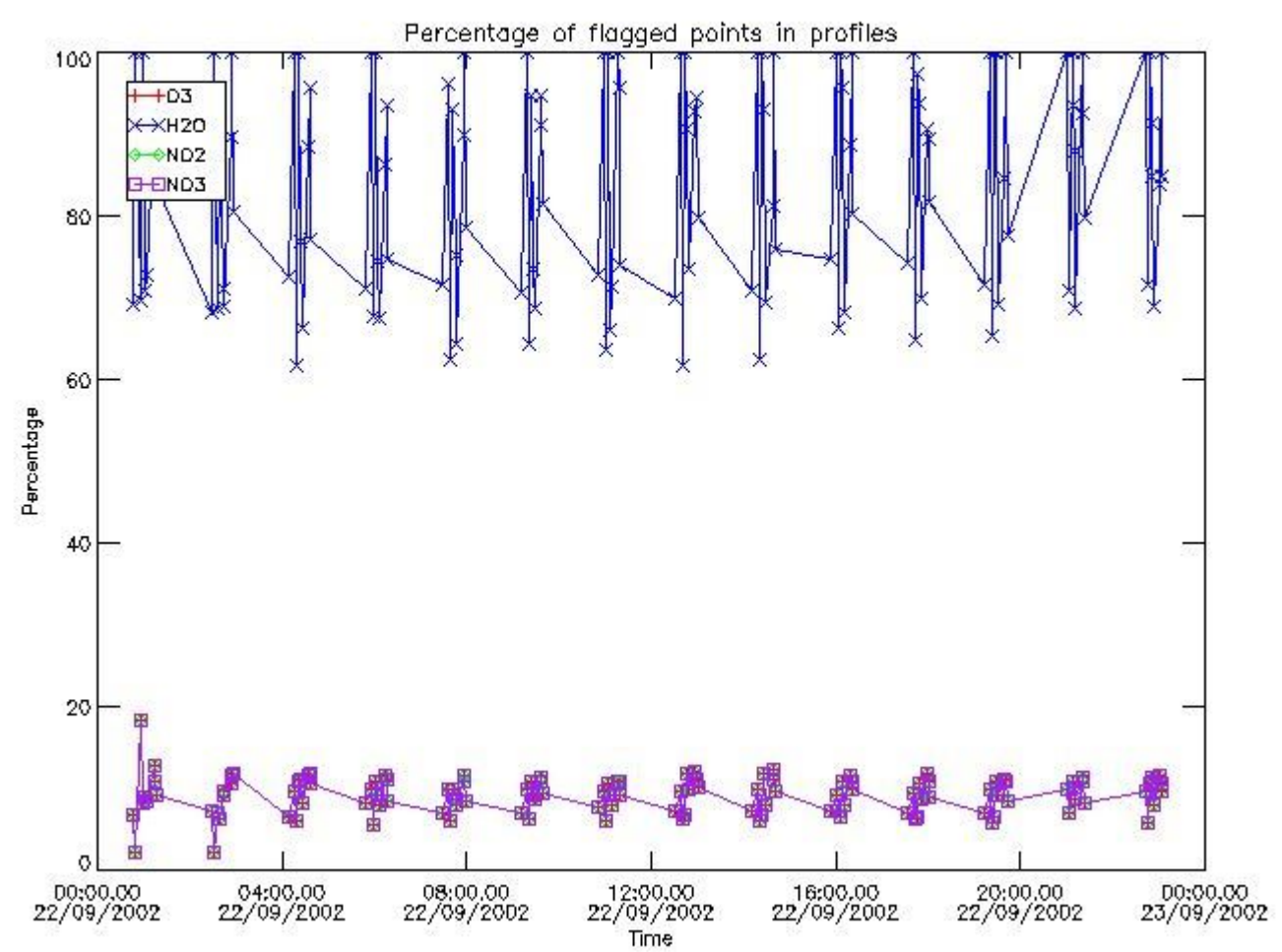
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020922_000240_000000472009_00374_02933_3023.N1	22-SEP-2002 00:02:40	Bright	47.000	93	53Bet Peg	2.5200	3100.0	94	2933	No
2	GOM_NL__2PRFIN20020922_000411_000000532009_00374_02933_3024.N1	22-SEP-2002 00:04:11	Bright	52.500	58	21Alp And	2.0730	11000.	105	2933	No
3	GOM_NL__2PRFIN20020922_000820_000000412009_00374_02933_3025.N1	22-SEP-2002 00:08:20	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	2933	No
4	GOM_NL__2PRFIN20020922_001224_000000452009_00374_02933_3026.N1	22-SEP-2002 00:12:24	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	2933	No
5	GOM_NL__2PRFIN20020922_001415_000000502009_00374_02933_3027.N1	22-SEP-2002 00:14:15	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	2933	No
6	GOM_NL__2PRFIN20020922_001956_000000412009_00374_02933_3028.N1	22-SEP-2002 00:19:56	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	2933	No
7	GOM_NL__2PRFIN20020922_002258_000000832009_00374_02933_3029.N1	22-SEP-2002 00:22:58	Bright	82.500	175	39Del Per	3.0100	19400.	165	2933	No
8	GOM_NL__2PRFIN20020922_002733_000000442009_00374_02933_3030.N1	22-SEP-2002 00:27:33	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2933	No
9	GOM_NL__2PRFIN20020922_002900_000000422009_00374_02933_3031.N1	22-SEP-2002 00:29:00	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	2933	No
10	GOM_NL__2PRFIN20020922_003137_000000722009_00374_02933_3032.N1	22-SEP-2002 00:31:37	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2933	No
11	GOM_NL__2PRFIN20020922_003525_000000862009_00374_02933_3033.N1	22-SEP-2002 00:35:25	Bright	86.000	107	37The Aur	2.6490	11000.	172	2933	No
12	GOM_NL__2PRFIN20020922_003809_000002552009_00374_02933_3034.N1	22-SEP-2002 00:38:09	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	2933	No
13	GOM_NL__2PRFIN20020922_004321_000001082009_00374_02933_3035.N1	22-SEP-2002 00:43:21	Straylight	108.00	151	13Mu Gem	2.8900	3000.0	216	2933	No
14	GOM_NL__2PRFIN20020922_004656_000000772009_00374_02933_3036.N1	22-SEP-2002 00:46:56	Dark	76.500	8	10Alp CMi	0.40000	6500.0	153	2933	No
15	GOM_NL__2PRFIN20020922_004919_000002552009_00374_02933_3037.N1	22-SEP-2002 00:49:19	Dark	255.00	176	23Zet Tau	3.0200	22000.	510	2933	No
16	GOM_NL__2PRFIN20020922_005652_000000832009_00374_02933_3038.N1	22-SEP-2002 00:56:52	Dark	83.000	1	9Alp CMa	-1.4400	11000.	166	2933	No
17	GOM_NL__2PRFIN20020922_005907_000000762009_00374_02933_3039.N1	22-SEP-2002 00:59:07	Dark	75.500	47	2Bet CMa	1.9760	28000.	151	2933	No
18	GOM_NL__2PRFIN20020922_010238_000000572009_00374_02933_3040.N1	22-SEP-2002 01:02:38	Dark	57.000	41	Eps Car	1.8600	4100.0	114	2933	No
19	GOM_NL__2PRFIN20020922_010438_000000612009_00375_02934_3010.N1	22-SEP-2002 01:04:38	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	2934	No
20	GOM_NL__2PRFIN20020922_011307_000000442009_00375_02934_3011.N1	22-SEP-2002 01:13:07	Dark	44.000	135	Bet Hyi	2.8200	5800.0	88	2934	No
21	GOM_NL__2PRFIN20020922_011439_000000472009_00375_02934_3012.N1	22-SEP-2002 01:14:39	Dark	47.000	143	Alp Hyi	2.8570	7200.0	94	2934	No
22	GOM_NL__2PRFIN20020922_011605_000000622009_00375_02934_3013.N1	22-SEP-2002 01:16:05	Dark	61.500	9	Alp Eri	0.45300	24000.	123	2934	No
23	GOM_NL__2PRFIN20020922_011836_000000462009_00375_02934_3014.N1	22-SEP-2002 01:18:36	Straylight	46.000	148	Alp Tuc	2.8780	4100.0	92	2934	No
24	GOM_NL__2PRFIN20020922_012141_000000482009_00375_02934_3015.N1	22-SEP-2002 01:21:41	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	2934	No
25	GOM_NL__2PRFIN20020922_012510_000000452009_00375_02934_3016.N1	22-SEP-2002 01:25:10	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	2934	No
26	GOM_NL__2PRFIN20020922_012639_000000482009_00375_02934_3017.N1	22-SEP-2002 01:26:39	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	2934	No
27	GOM_NL__2PRFIN20020922_012859_000000632009_00375_02934_3018.N1	22-SEP-2002 01:28:59	Twilight	63.000	52	16Bet Cet	2.0370	4500.0	126	2934	No
28	GOM_NL__2PRFIN20020922_013109_000000462009_00375_02934_3019.N1	22-SEP-2002 01:31:09	Twilight	45.500	142	49Del Cap	2.8500	8900.0	91	2934	No
29	GOM_NL__2PRFIN20020922_013519_000000452009_00375_02934_3020.N1	22-SEP-2002 01:35:19	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	2934	No
30	GOM_NL__2PRFIN20020922_013822_000000452009_00375_02934_3021.N1	22-SEP-2002 01:38:22	Bright	45.000	61	8Eps Peg	2.1000	3900.0	90	2934	No
31	GOM_NL__2PRFIN20020922_014026_000000542009_00375_02934_3022.N1	22-SEP-2002 01:40:26	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	2934	No
32	GOM_NL__2PRFIN20020922_014316_000000462009_00375_02934_3023.N1	22-SEP-2002 01:43:16	Bright	45.500	93	53Bet Peg	2.5200	3100.0	91	2934	No
33	GOM_NL__2PRFIN20020922_014446_000000532009_00375_02934_3024.N1	22-SEP-2002 01:44:46	Bright	53.000	58	21Alp And	2.0730	11000.	106	2934	No
34	GOM_NL__2PRFIN20020922_014856_000000472009_00375_02934_3025.N1	22-SEP-2002 01:48:56	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	2934	No
35	GOM_NL__2PRFIN20020922_015300_000000442009_00375_02934_3026.N1	22-SEP-2002 01:53:00	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	2934	No
36	GOM_NL__2PRFIN20020922_015450_000000502009_00375_02934_3027.N1	22-SEP-2002 01:54:50	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	2934	No
37	GOM_NL__2PRFIN20020922_020031_000000422009_00375_02934_3028.N1	22-SEP-2002 02:00:31	Bright	41.500	49	1Alp UMi	1.9900	6300.0	83	2934	No
38	GOM_NL__2PRFIN20020922_020333_000000792009_00375_02934_3029.N1	22-SEP-2002 02:03:33	Bright	79.000	175	39Del Per	3.0100	19400.	158	2934	No
39	GOM_NL__2PRFIN20020922_020808_000000442009_00375_02934_3030.N1	22-SEP-2002 02:08:08	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2934	No
40	GOM_NL__2PRFIN20020922_020936_000000432009_00375_02934_3031.N1	22-SEP-2002 02:09:36	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	2934	No
41	GOM_NL__2PRFIN20020922_021212_000000722009_00375_02934_3032.N1	22-SEP-2002 02:12:12	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2934	No
42	GOM_NL__2PRFIN20020922_021600_000000802009_00375_02934_3033.N1	22-SEP-2002 02:16:00	Bright	79.500	107	37The Aur	2.6490	11000.	159	2934	No

397	GOM_NL__2PRFIN20020922_213352_000000502009_00387_02946_3187.N1	22-SEP-2002 21:33:52	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	2946	No
398	GOM_NL__2PRFIN20020922_213611_000000652009_00387_02946_3188.N1	22-SEP-2002 21:36:11	Twl_and_stray	65.000	52	16Bet Cet	2.0370	4500.0	130	2946	No
399	GOM_NL__2PRFIN20020922_213823_000000472009_00387_02946_3189.N1	22-SEP-2002 21:38:23	Twl_and_stray	46.500	142	49Del Cap	2.8500	8900.0	93	2946	No
400	GOM_NL__2PRFIN20020922_214232_000000452009_00387_02946_3190.N1	22-SEP-2002 21:42:32	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	2946	No
401	GOM_NL__2PRFIN20020922_214535_000000462009_00387_02946_3191.N1	22-SEP-2002 21:45:35	Bright	45.500	61	8Eps Peg	2.1000	3900.0	91	2946	No
402	GOM_NL__2PRFIN20020922_214731_000000552009_00387_02946_3192.N1	22-SEP-2002 21:47:31	Bright	55.000	140	88Gam Peg	2.8340	26000.	110	2946	No
403	GOM_NL__2PRFIN20020922_215024_000000472009_00387_02946_3193.N1	22-SEP-2002 21:50:24	Bright	47.000	93	53Bet Peg	2.5200	3100.0	94	2946	No
404	GOM_NL__2PRFIN20020922_215309_000000462009_00387_02946_3194.N1	22-SEP-2002 21:53:09	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	2946	No
405	GOM_NL__2PRFIN20020922_215611_000000462009_00387_02946_3195.N1	22-SEP-2002 21:56:11	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	2946	No
406	GOM_NL__2PRFIN20020922_220012_000000462009_00387_02946_3196.N1	22-SEP-2002 22:00:12	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	2946	No
407	GOM_NL__2PRFIN20020922_220155_000000512009_00387_02946_3197.N1	22-SEP-2002 22:01:55	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	2946	No
408	GOM_NL__2PRFIN20020922_220741_000000432009_00387_02946_3198.N1	22-SEP-2002 22:07:41	Bright	43.000	49	1Alp UMi	1.9900	6300.0	86	2946	No
409	GOM_NL__2PRFIN20020922_220910_000000422009_00387_02946_3199.N1	22-SEP-2002 22:09:10	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	2946	No
410	GOM_NL__2PRFIN20020922_221522_000000452009_00387_02946_3200.N1	22-SEP-2002 22:15:22	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	2946	No
411	GOM_NL__2PRFIN20020922_221650_000000442009_00387_02946_3201.N1	22-SEP-2002 22:16:50	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	2946	No
412	GOM_NL__2PRFIN20020922_221918_000000722009_00387_02946_3202.N1	22-SEP-2002 22:19:18	Bright	72.000	42	34Bet Aur	1.9000	10200.	144	2946	No
413	GOM_NL__2PRFIN20020922_222525_000000612009_00387_02946_3203.N1	22-SEP-2002 22:25:25	Bright	60.500	24	66Alp Gem	1.5800	10200.	121	2946	No
414	GOM_NL__2PRFIN20020922_223022_000002552009_00387_02946_3204.N1	22-SEP-2002 22:30:22	Straylight	255.00	28	12Bet Tau	1.6500	15200.	510	2946	No
415	GOM_NL__2PRFIN20020922_224212_000000532009_00387_02946_3205.N1	22-SEP-2002 22:42:12	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	2946	No
416	GOM_NL__2PRFIN20020922_224456_000000882009_00387_02946_3206.N1	22-SEP-2002 22:44:56	Dark	88.000	1	9Alp CMa	-1.4400	11000.	176	2946	No
417	GOM_NL__2PRFIN20020922_224750_000000492009_00387_02946_3207.N1	22-SEP-2002 22:47:50	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	2946	No
418	GOM_NL__2PRFIN20020922_224943_000000472009_00387_02946_3208.N1	22-SEP-2002 22:49:43	Dark	46.500	71	lot Car	2.2460	7700.0	93	2946	No
419	GOM_NL__2PRFIN20020922_225111_000000502009_00387_02946_3209.N1	22-SEP-2002 22:51:11	Dark	49.500	161	Tau Pup	2.9310	4500.0	99	2946	No
420	GOM_NL__2PRFIN20020922_225233_000000652009_00388_02947_3048.N1	22-SEP-2002 22:52:33	Dark	65.000	2	Alp Car	-0.73600	7000.0	130	2947	No
421	GOM_NL__2PRFIN20020922_230056_000000442009_00388_02947_3049.N1	22-SEP-2002 23:00:56	Dark	44.000	135	Bet Hyi	2.8200	5800.0	88	2947	No
422	GOM_NL__2PRFIN20020922_230231_000000482009_00388_02947_3050.N1	22-SEP-2002 23:02:31	Dark	48.000	143	Alp Hyi	2.8570	7200.0	96	2947	No
423	GOM_NL__2PRFIN20020922_230357_000000532009_00388_02947_3051.N1	22-SEP-2002 23:03:57	Dark	53.000	9	Alp Eri	0.45300	24000.	106	2947	No
424	GOM_NL__2PRFIN20020922_230624_000000462009_00388_02947_3052.N1	22-SEP-2002 23:06:24	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	2947	No
425	GOM_NL__2PRFIN20020922_230953_000000542009_00388_02947_3053.N1	22-SEP-2002 23:09:53	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	2947	No
426	GOM_NL__2PRFIN20020922_231259_000000472009_00388_02947_3054.N1	22-SEP-2002 23:12:59	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	2947	No
427	GOM_NL__2PRFIN20020922_231428_000000502009_00388_02947_3055.N1	22-SEP-2002 23:14:28	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	2947	No
428	GOM_NL__2PRFIN20020922_231647_000000632009_00388_02947_3056.N1	22-SEP-2002 23:16:47	Twl_and_stray	63.000	52	16Bet Cet	2.0370	4500.0	126	2947	No
429	GOM_NL__2PRFIN20020922_231859_000000452009_00388_02947_3057.N1	22-SEP-2002 23:18:59	Twl_and_stray	45.000	142	49Del Cap	2.8500	8900.0	90	2947	No
430	GOM_NL__2PRFIN20020922_232308_000000442009_00388_02947_3058.N1	22-SEP-2002 23:23:08	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	2947	No
431	GOM_NL__2PRFIN20020922_232611_000000462009_00388_02947_3059.N1	22-SEP-2002 23:26:11	Bright	46.000	61	8Eps Peg	2.1000	3900.0	92	2947	No
432	GOM_NL__2PRFIN20020922_232807_000000522009_00388_02947_3060.N1	22-SEP-2002 23:28:07	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	2947	No
433	GOM_NL__2PRFIN20020922_233101_000000462009_00388_02947_3061.N1	22-SEP-2002 23:31:01	Bright	46.000	93	53Bet Peg	2.5200	3100.0	92	2947	No
434	GOM_NL__2PRFIN20020922_233346_000000432009_00388_02947_3062.N1	22-SEP-2002 23:33:46	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	2947	No
435	GOM_NL__2PRFIN20020922_233647_000000442009_00388_02947_3063.N1	22-SEP-2002 23:36:47	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	2947	No
436	GOM_NL__2PRFIN20020922_234048_000000442009_00388_02947_3064.N1	22-SEP-2002 23:40:48	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	2947	No
437	GOM_NL__2PRFIN20020922_234231_000000472009_00388_02947_3065.N1	22-SEP-2002 23:42:31	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	2947	No
438	GOM_NL__2PRFIN20020922_234818_000000462009_00388_02947_3066.N1	22-SEP-2002 23:48:18	Bright	45.500	49	1Alp UMi	1.9900	6300.0	91	2947	No
439	GOM_NL__2PRFIN20020922_234946_000000452009_00388_02947_3067.N1	22-SEP-2002 23:49:46	Bright	44.500	60	7Bet UMi	2.0810	3950.0	89	2947	No
440	GOM_NL__2PRFIN20020922_235558_000000442009_00388_02947_3068.N1	22-SEP-2002 23:55:58	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	2947	No
441	GOM_NL__2PRFIN20020922_235726_000000442009_00388_02947_3069.N1	22-SEP-2002 23:57:26	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	2947	No
442	GOM_NL__2PRFIN20020922_235954_000000742009_00388_02947_3070.N1	22-SEP-2002 23:59:54	Bright	74.000	42	34Bet Aur	1.9000	10200.	148	2947	No

3. Quality information per product

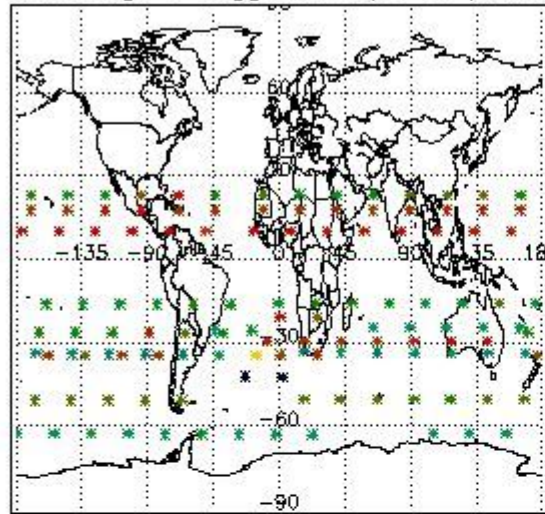
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

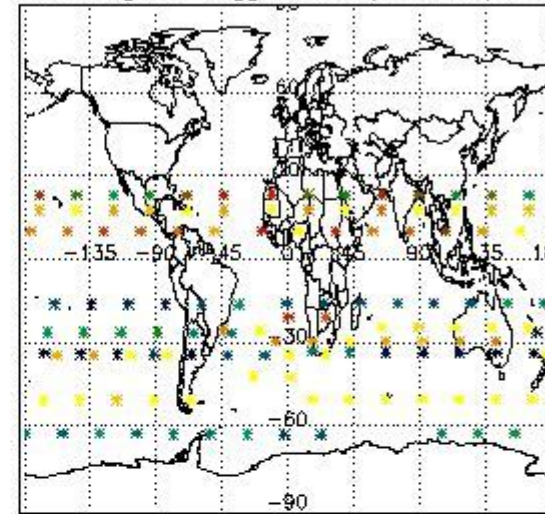


3.2 Plot quality information per product (world map)

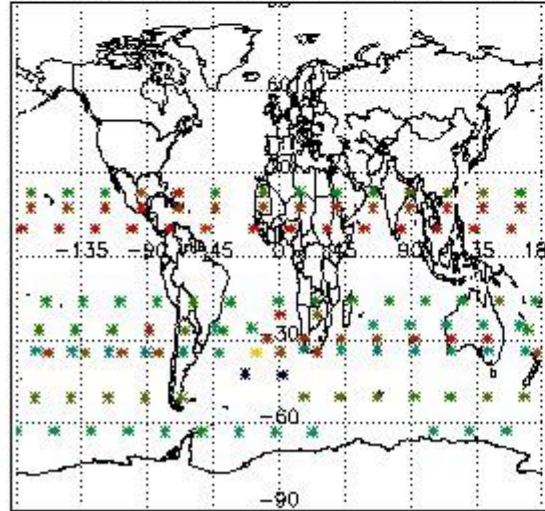
Percentage of flagged data per O3 profile



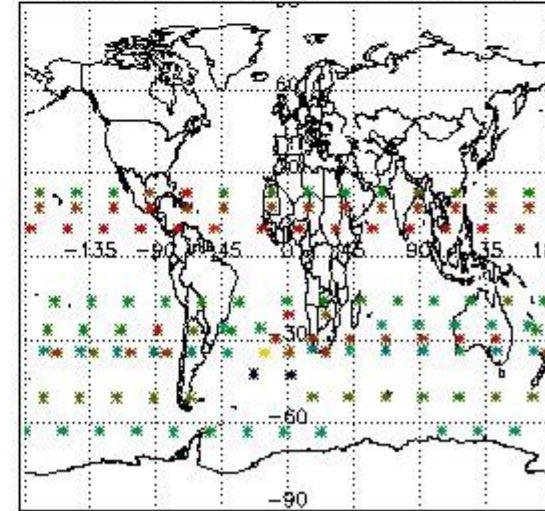
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

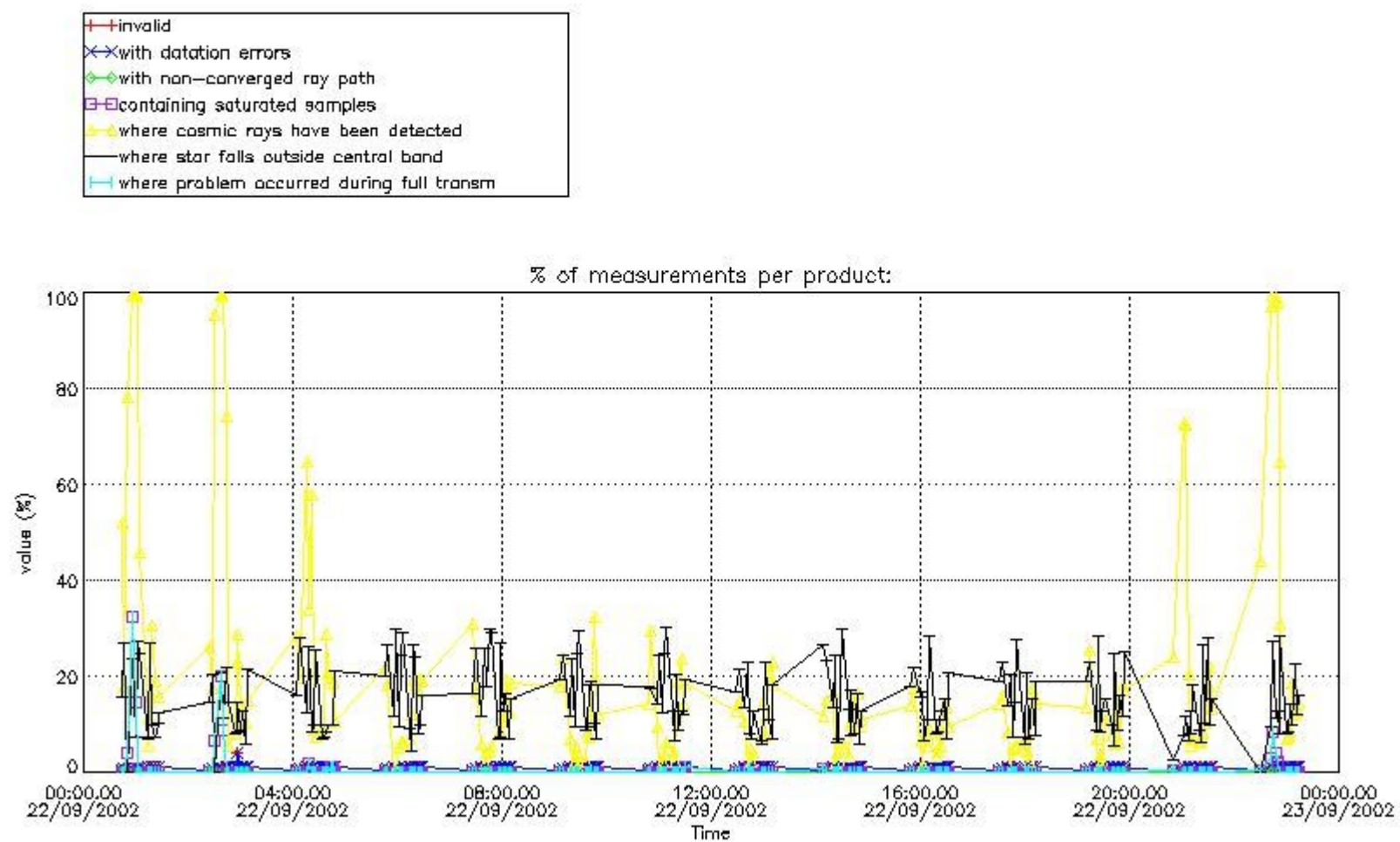


4. Level 1 quality information per product

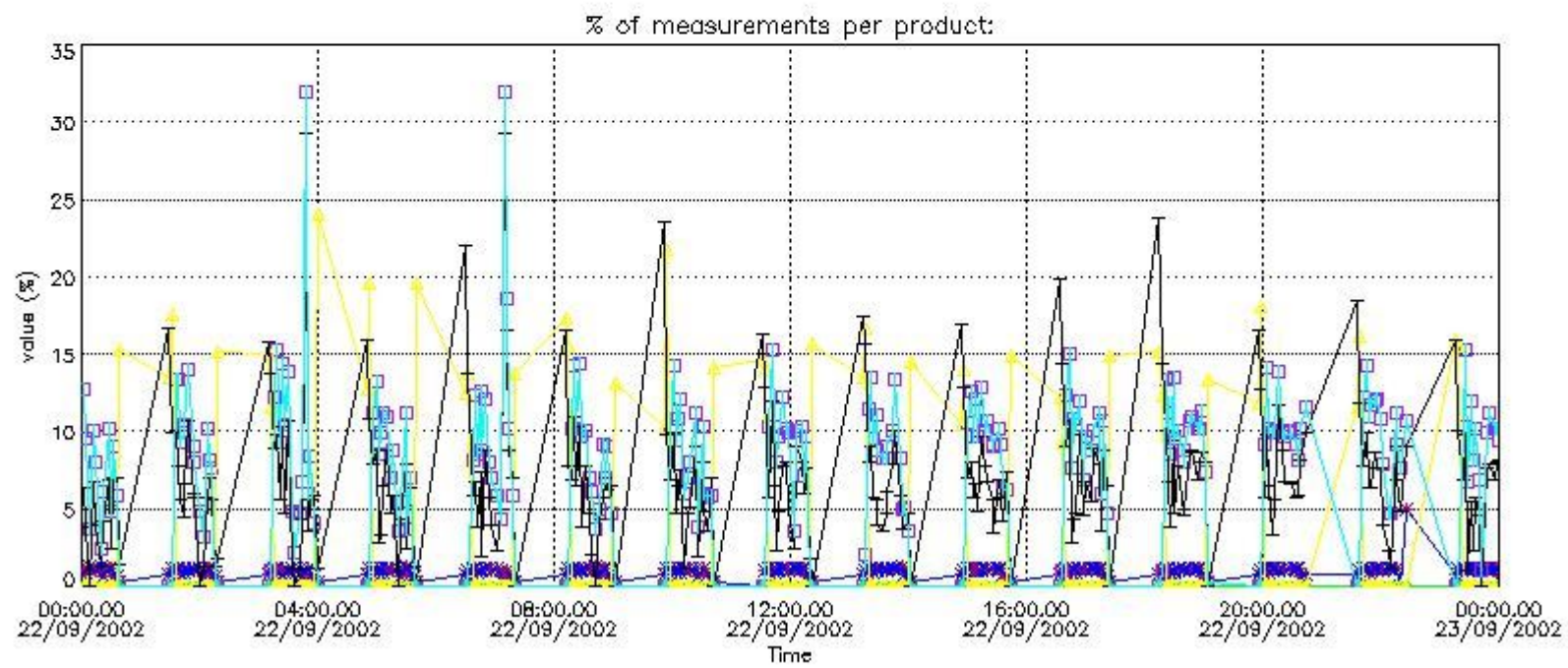
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



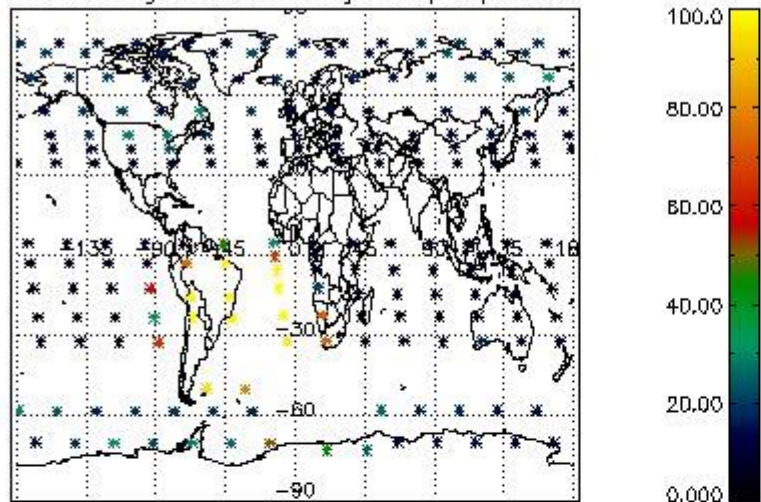
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



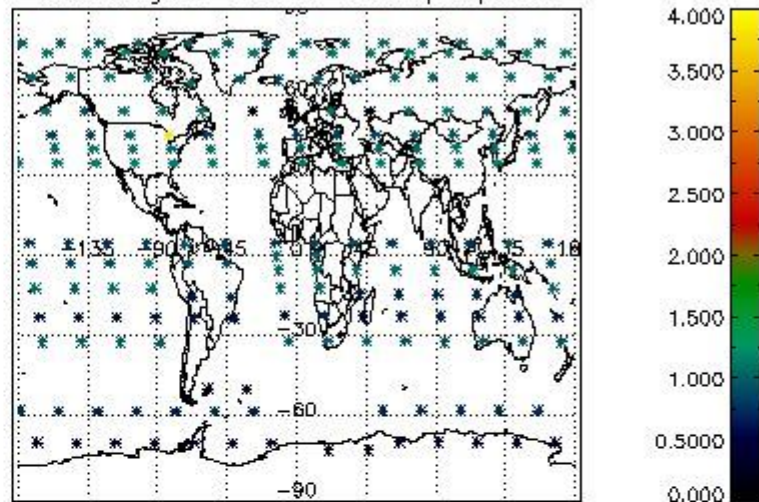
4.2 Plot quality information per product coming from level 1b processing (world map)

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

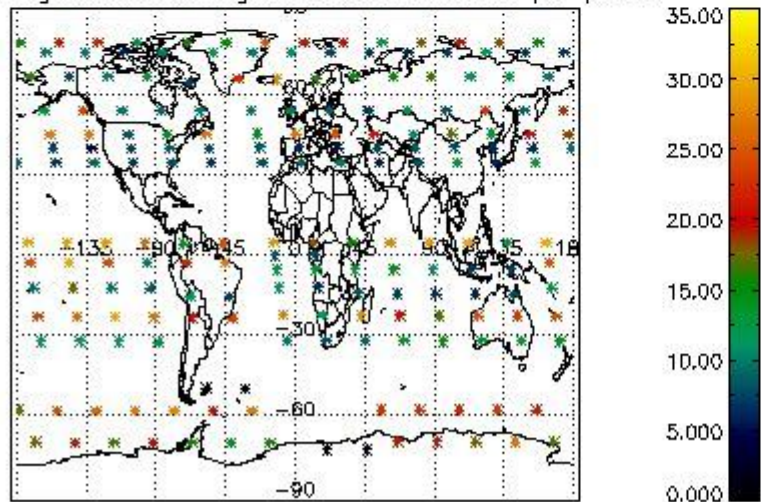
Percentage of cosmic ray hits per profile



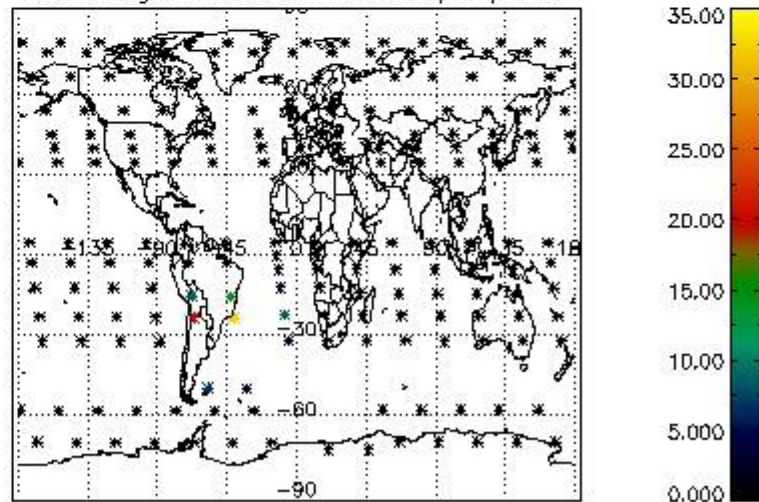
Percentage of datation errors per profile



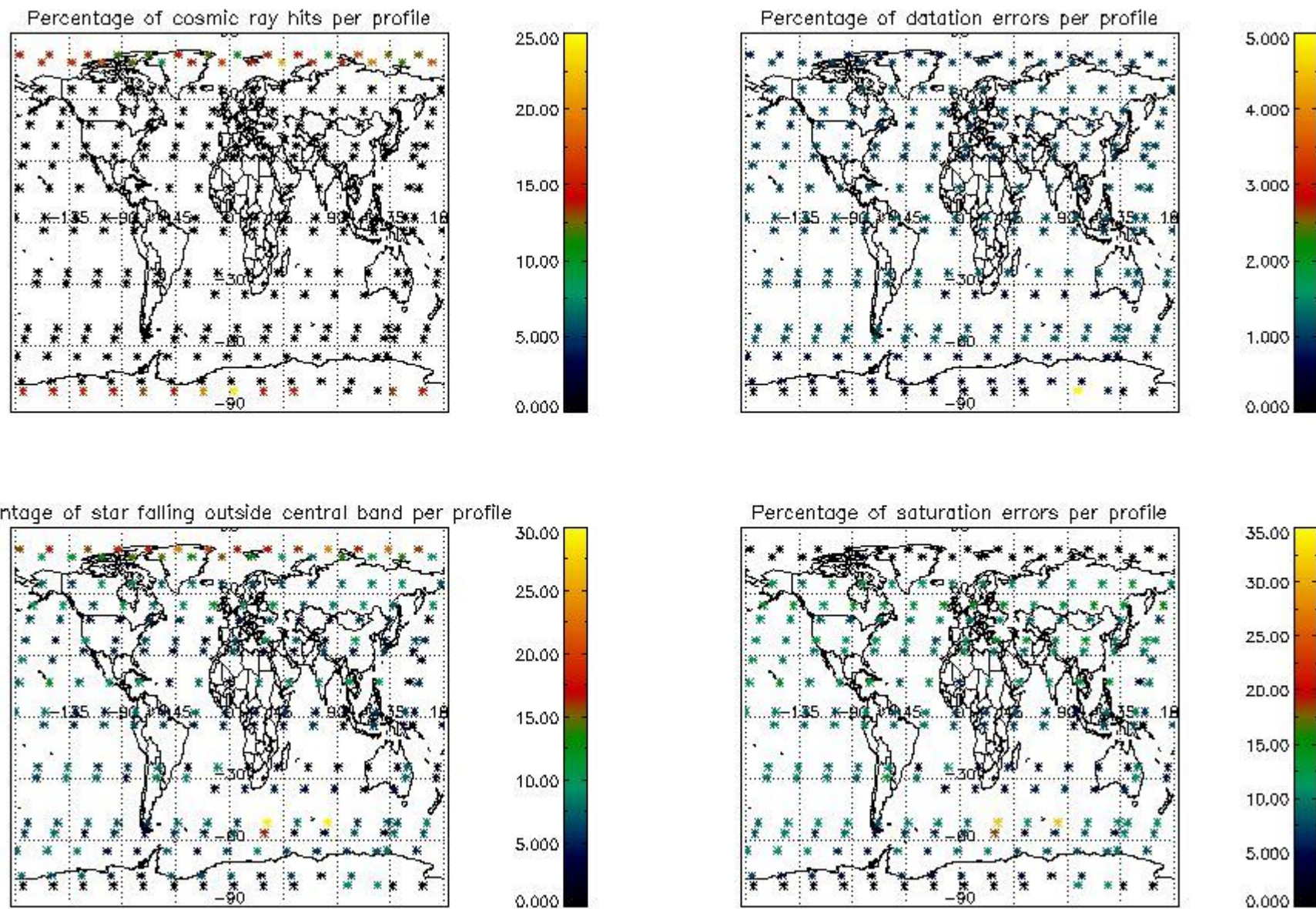
Percentage of star falling outside central band per profile



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

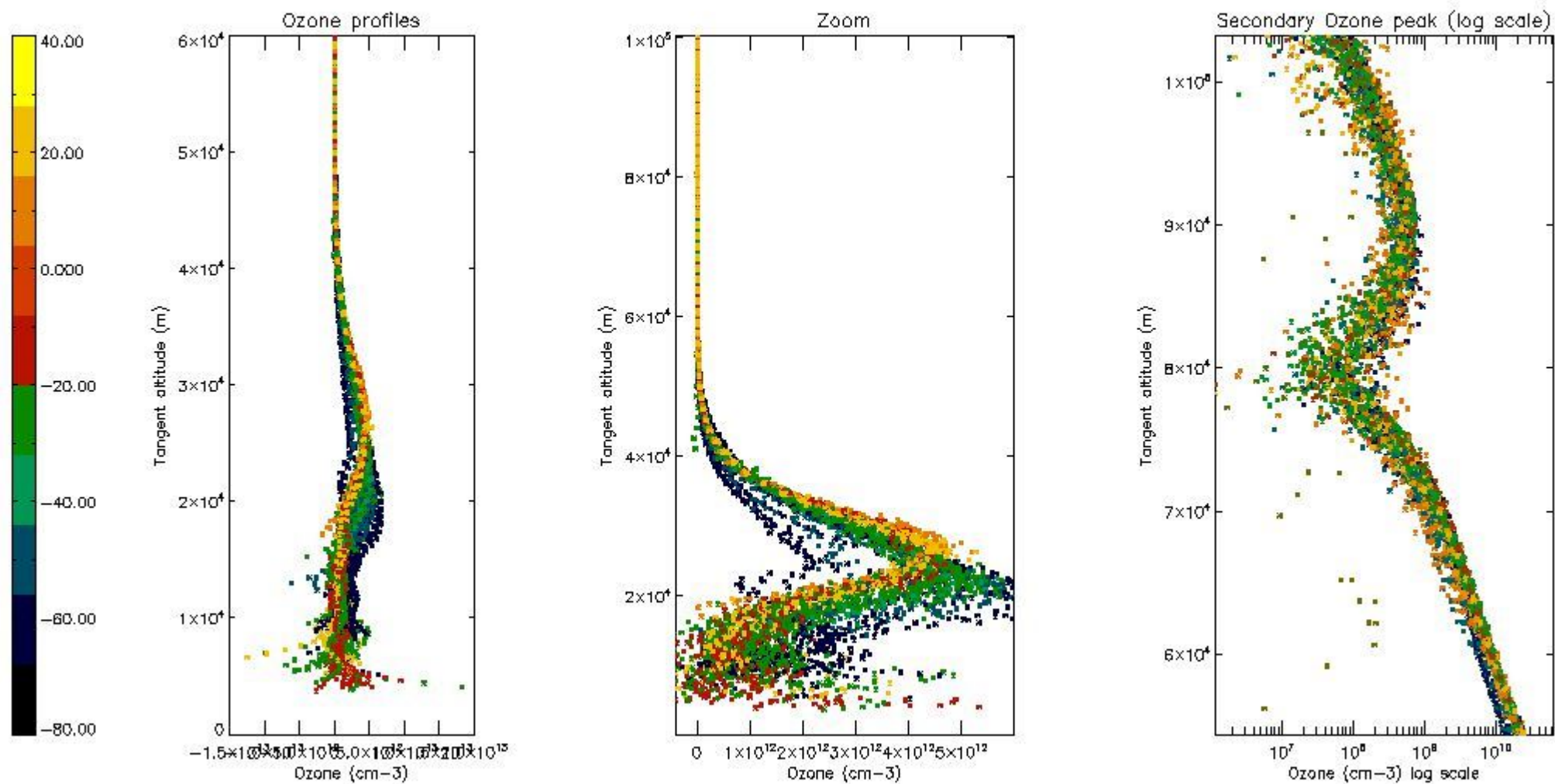
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	14
STD < 5	10

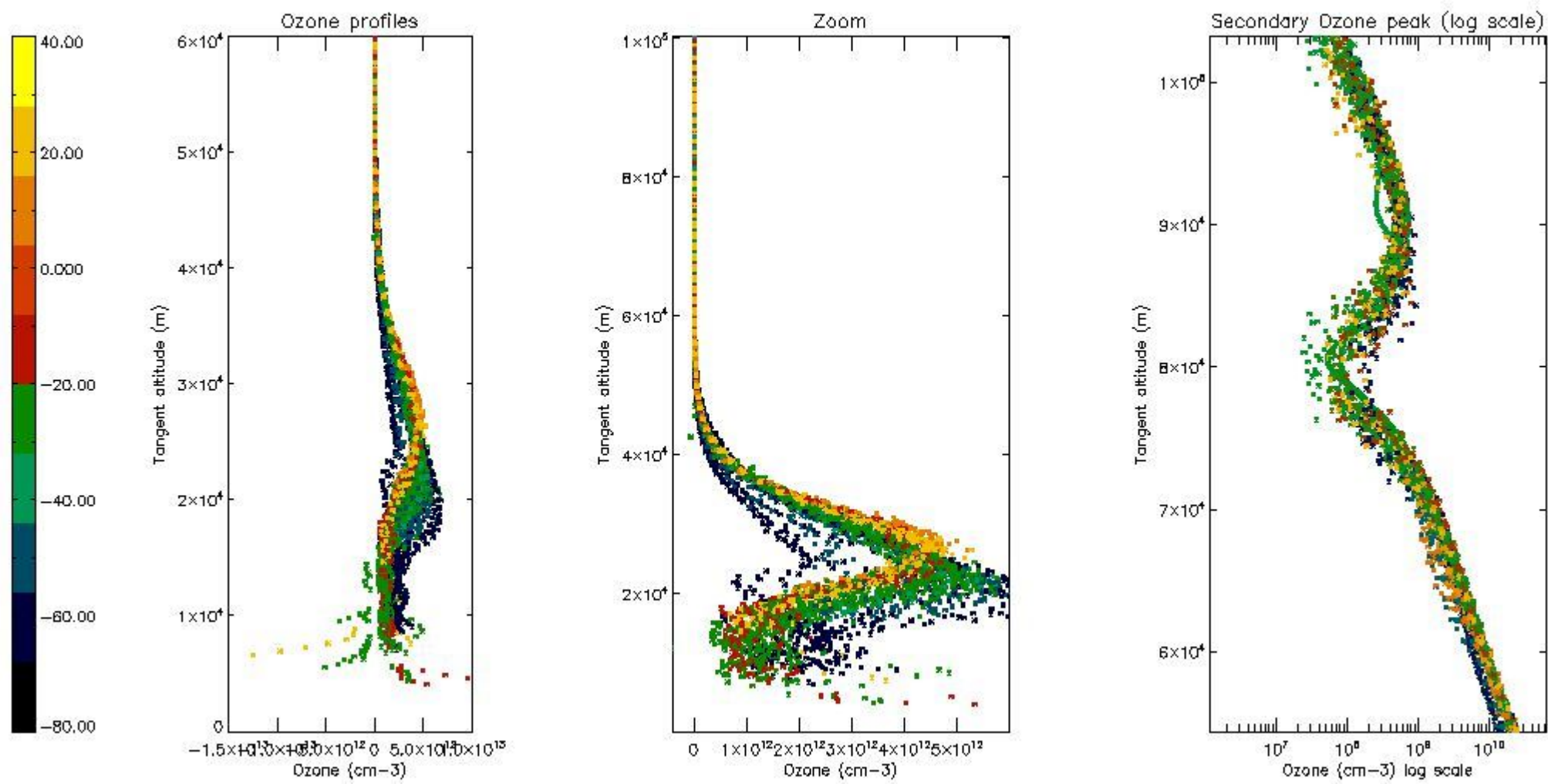
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



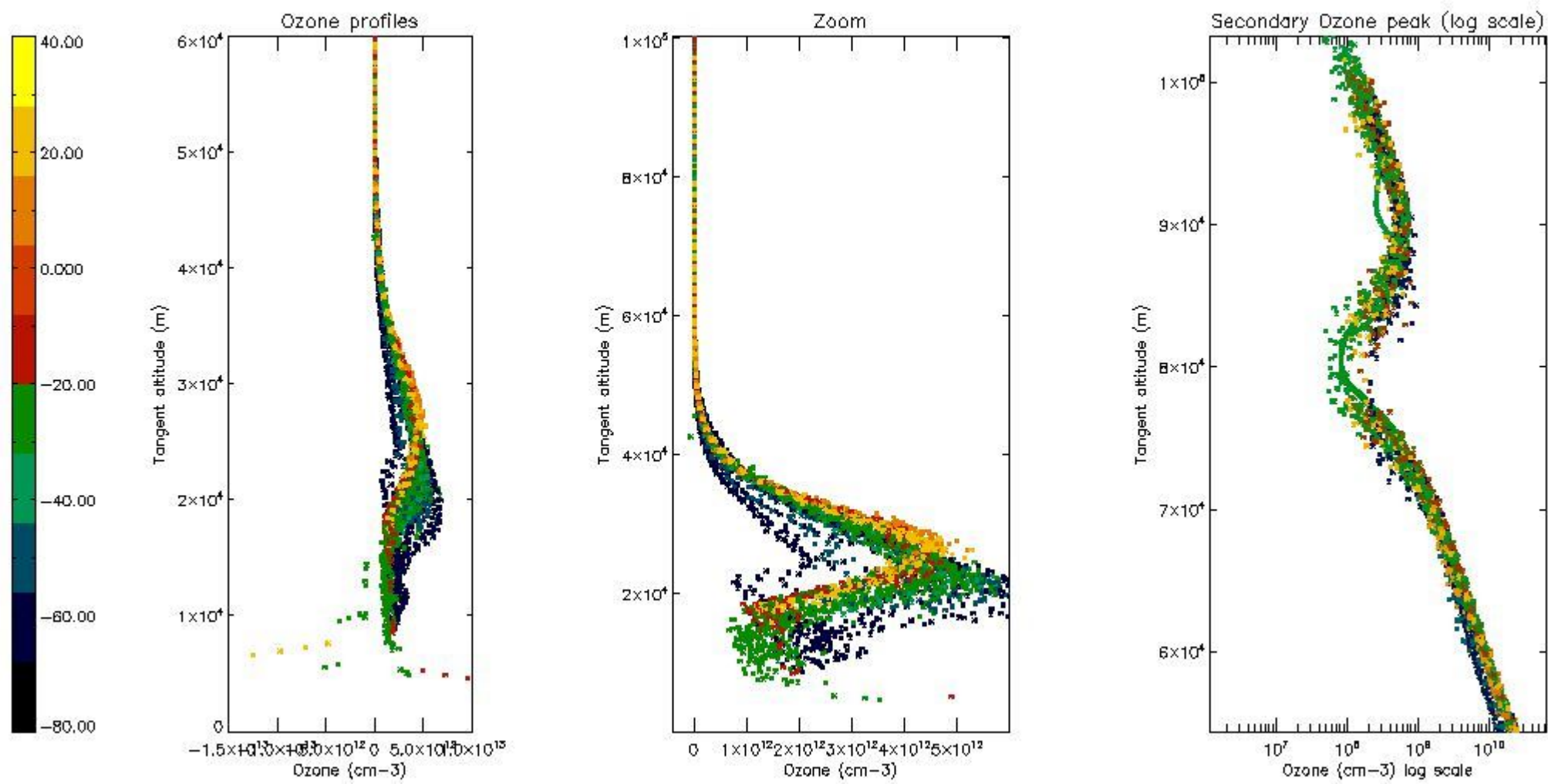
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



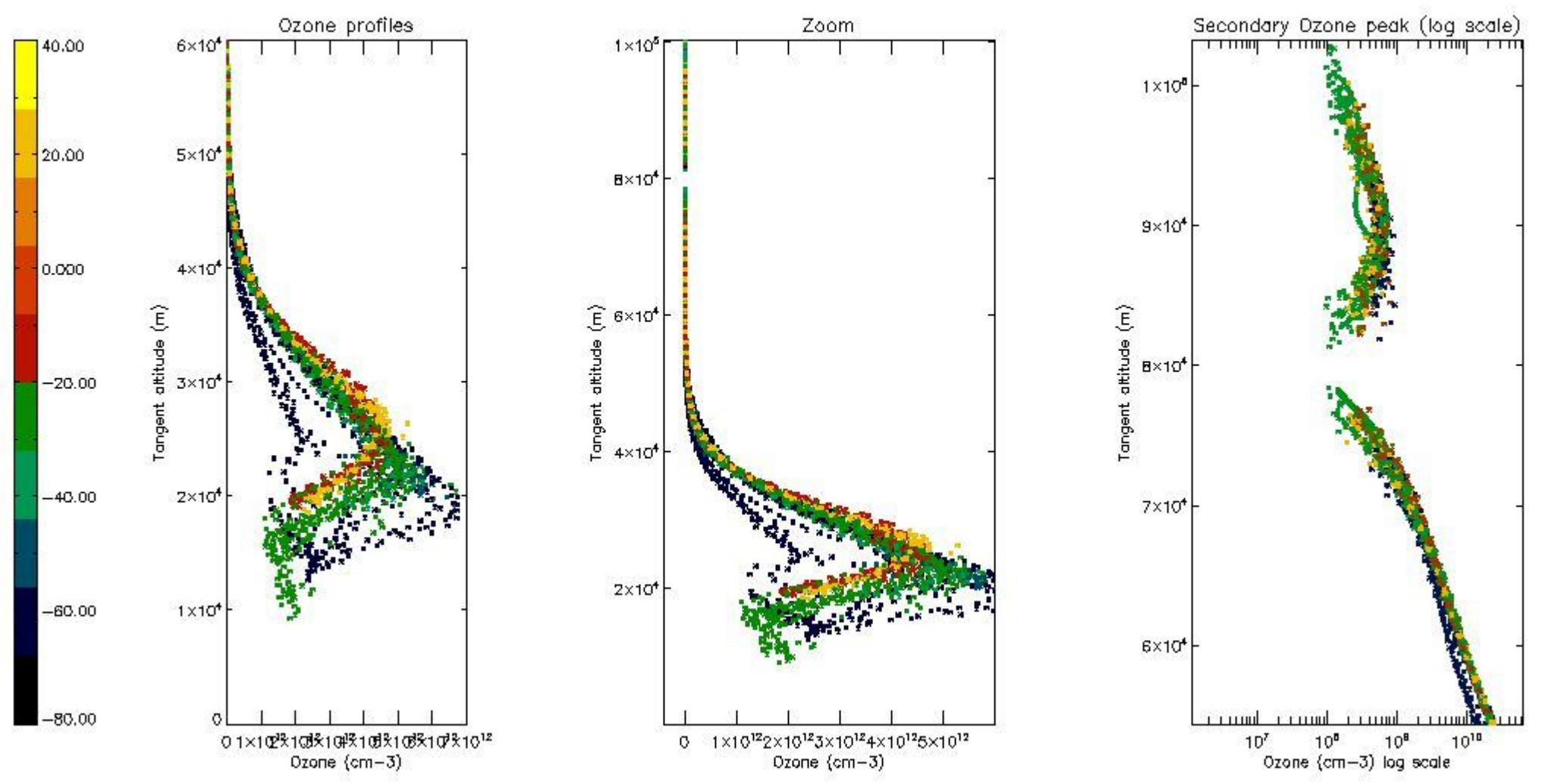
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



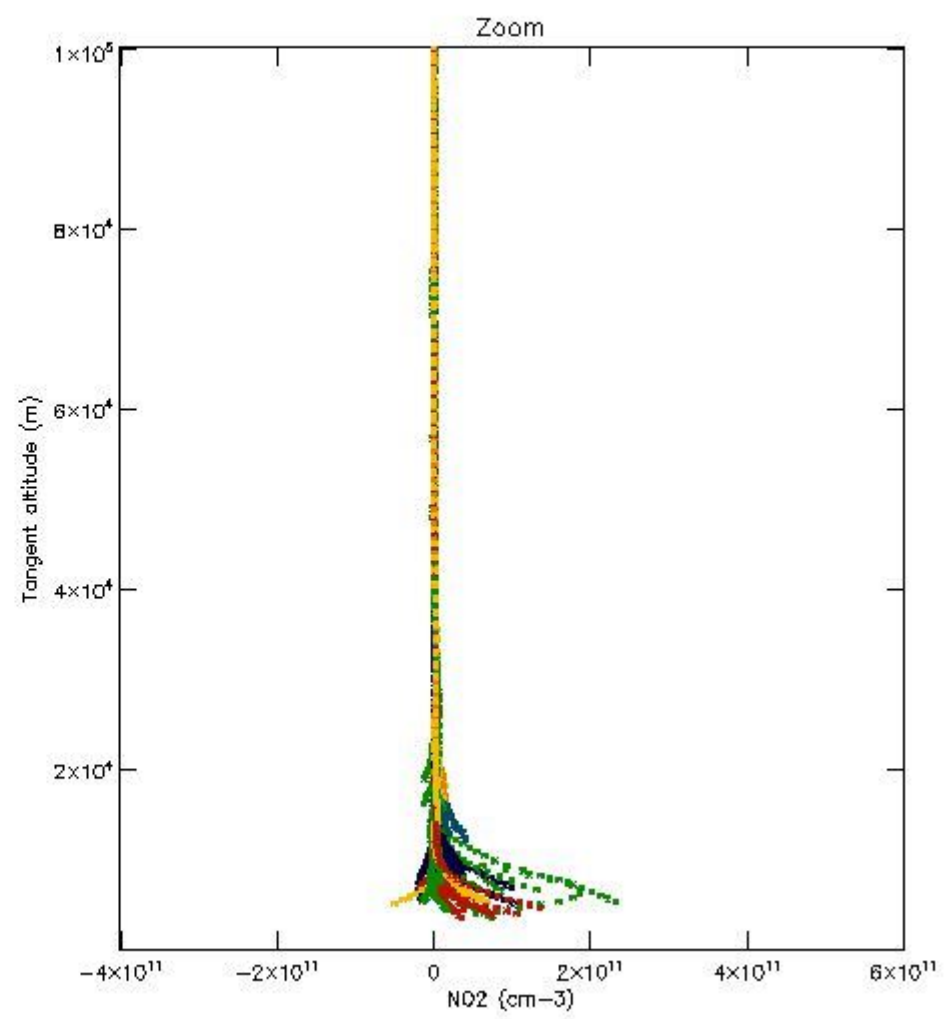
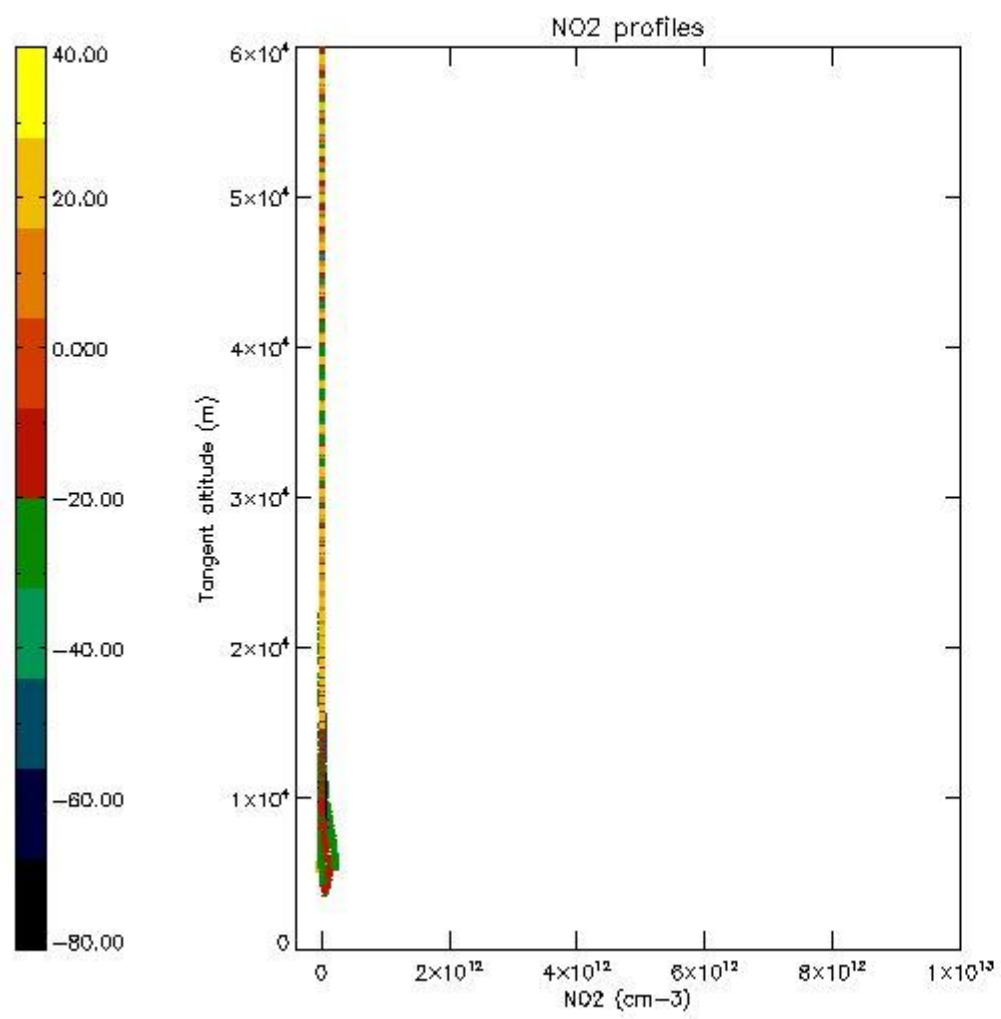
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



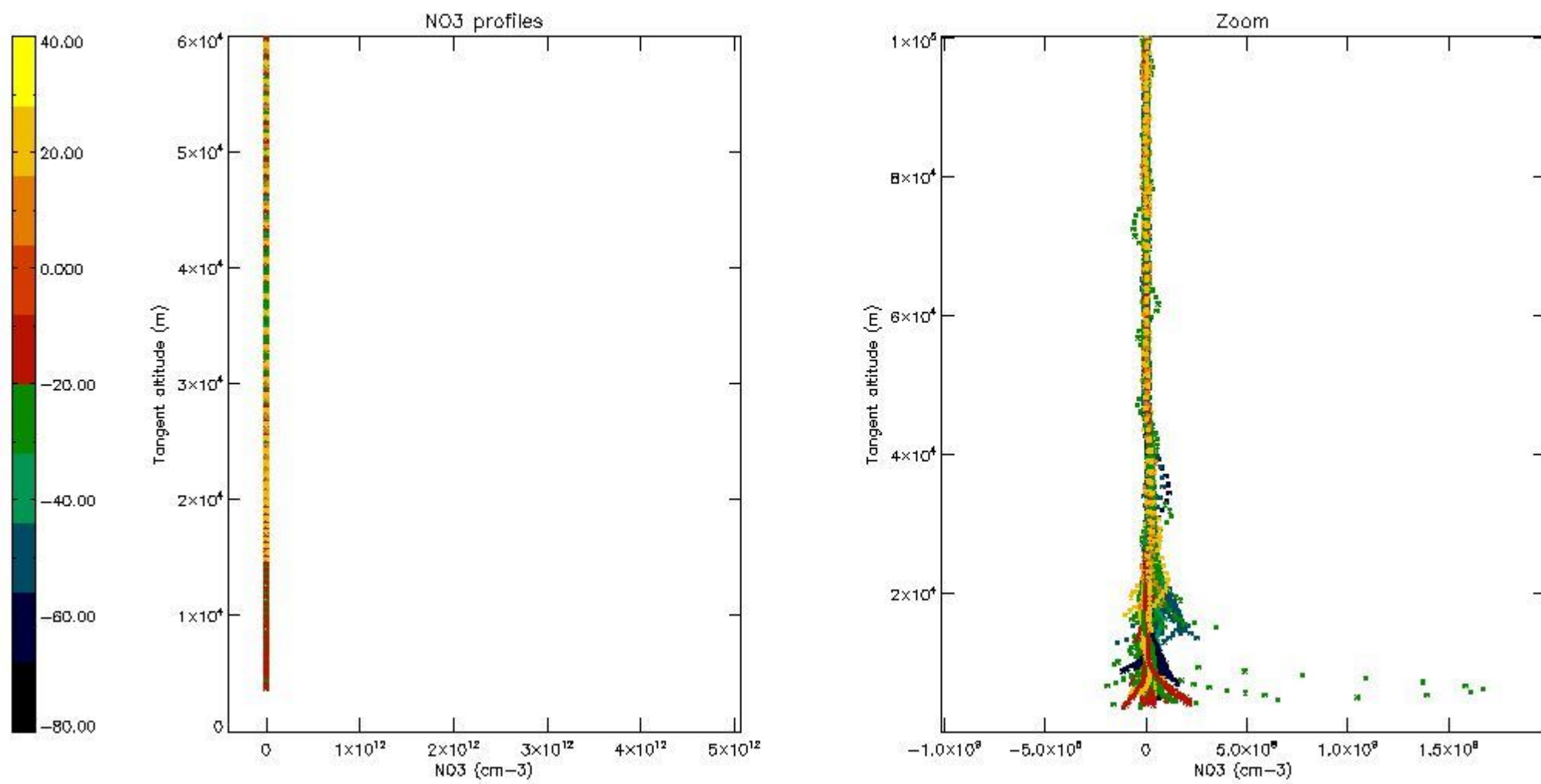
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



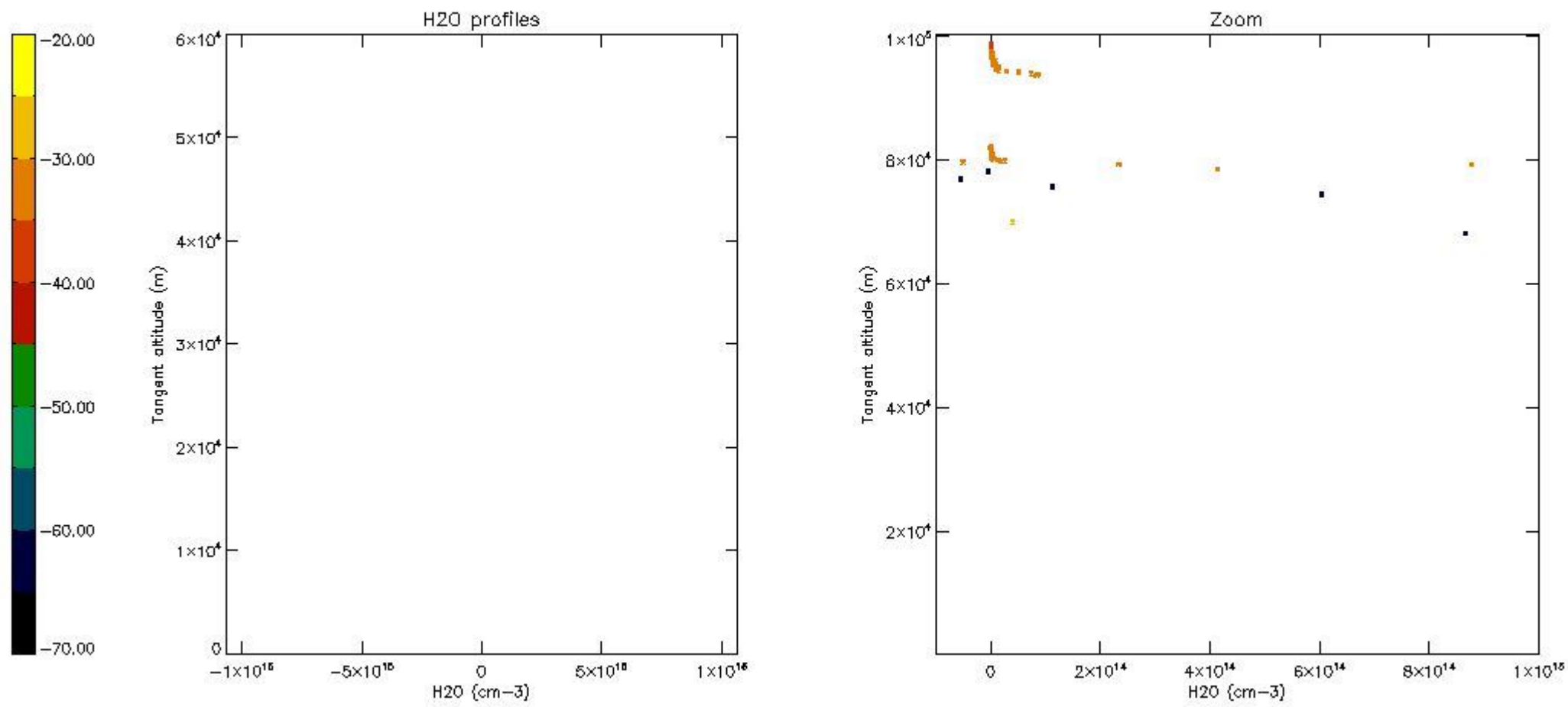
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

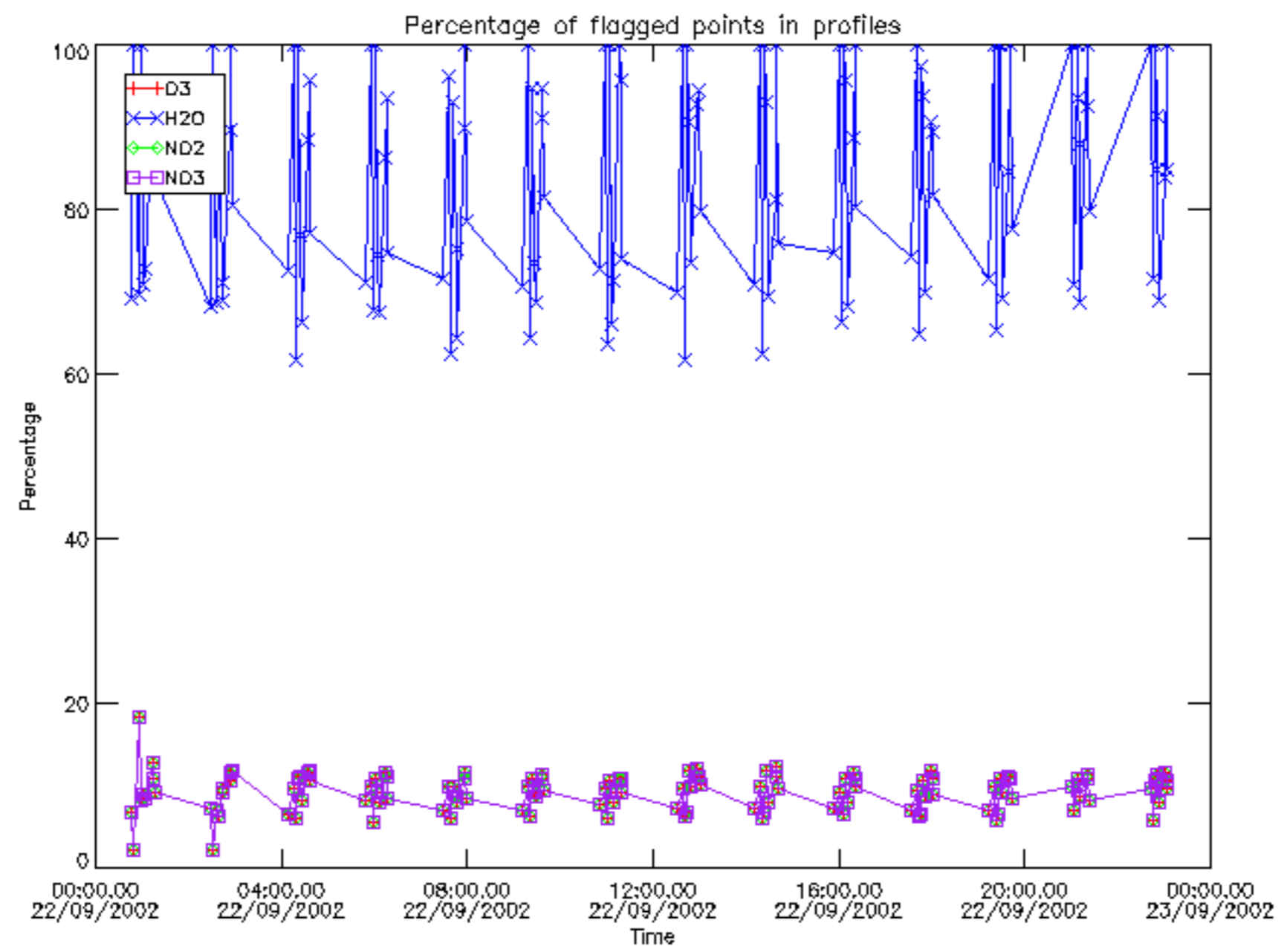
The colorbar represents the latitude.



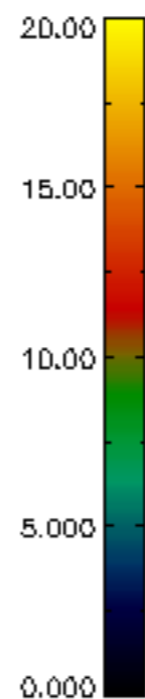
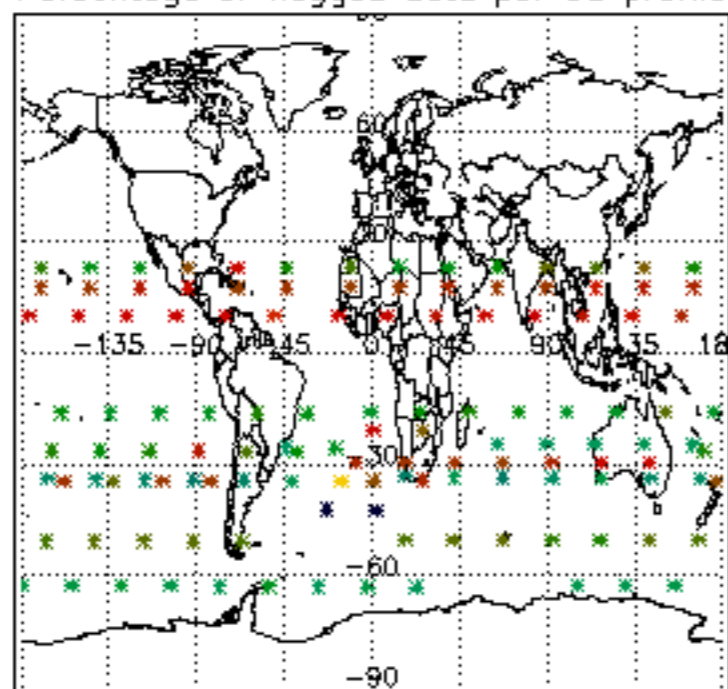
6. Auxiliary Data Files used for the production reported in section 2

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

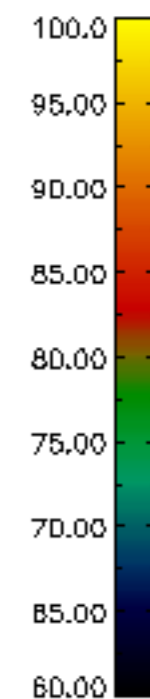
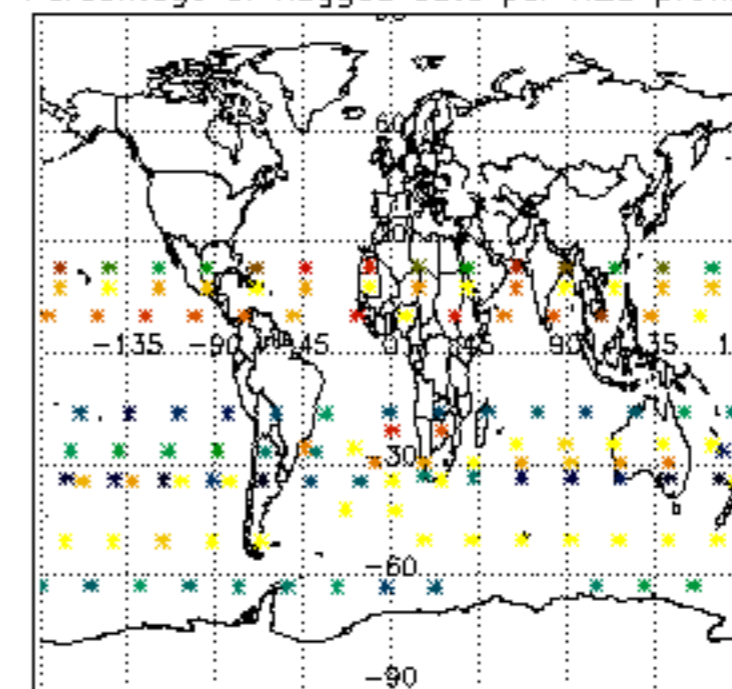
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	22-SEP-2002 00:02:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2002 00:02:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2002 00:02:40



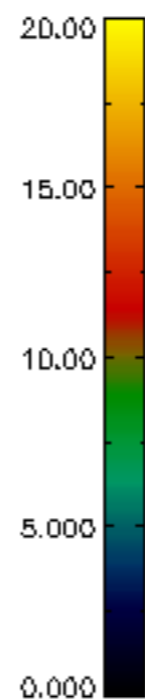
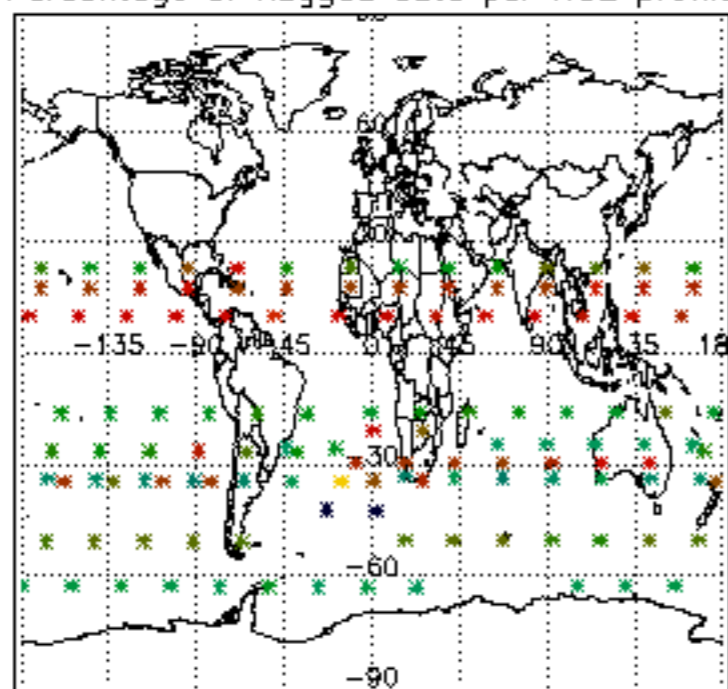
Percentage of flagged data per D3 profile



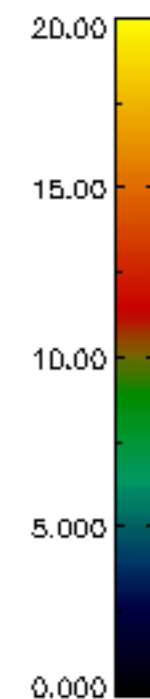
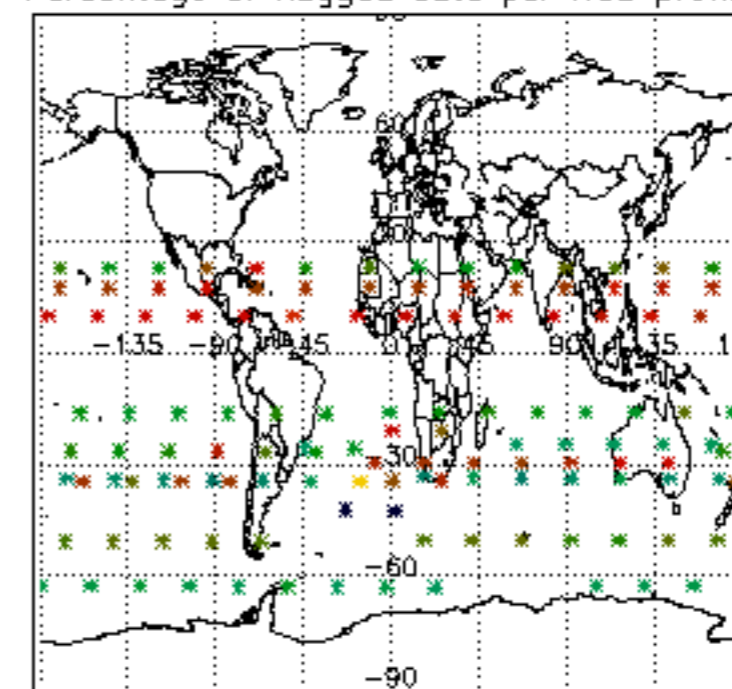
Percentage of flagged data per H2O profile

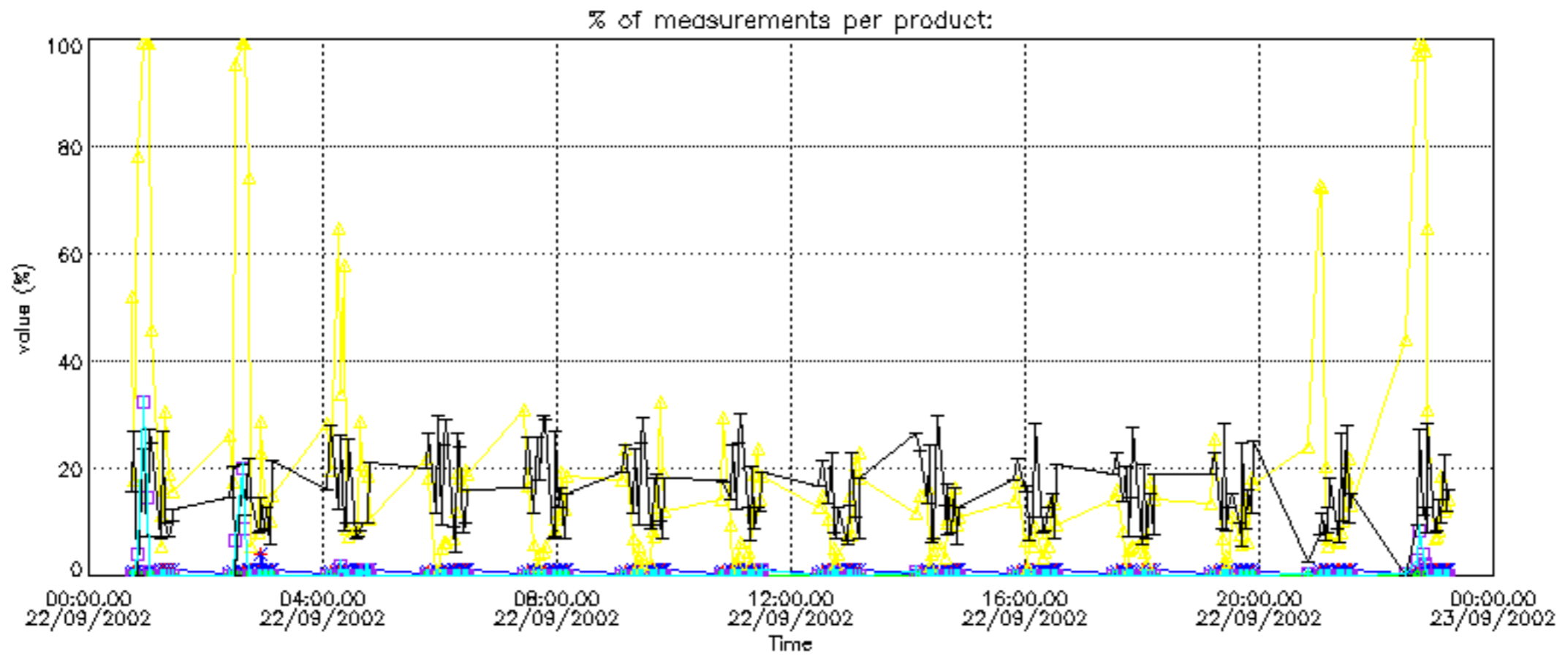


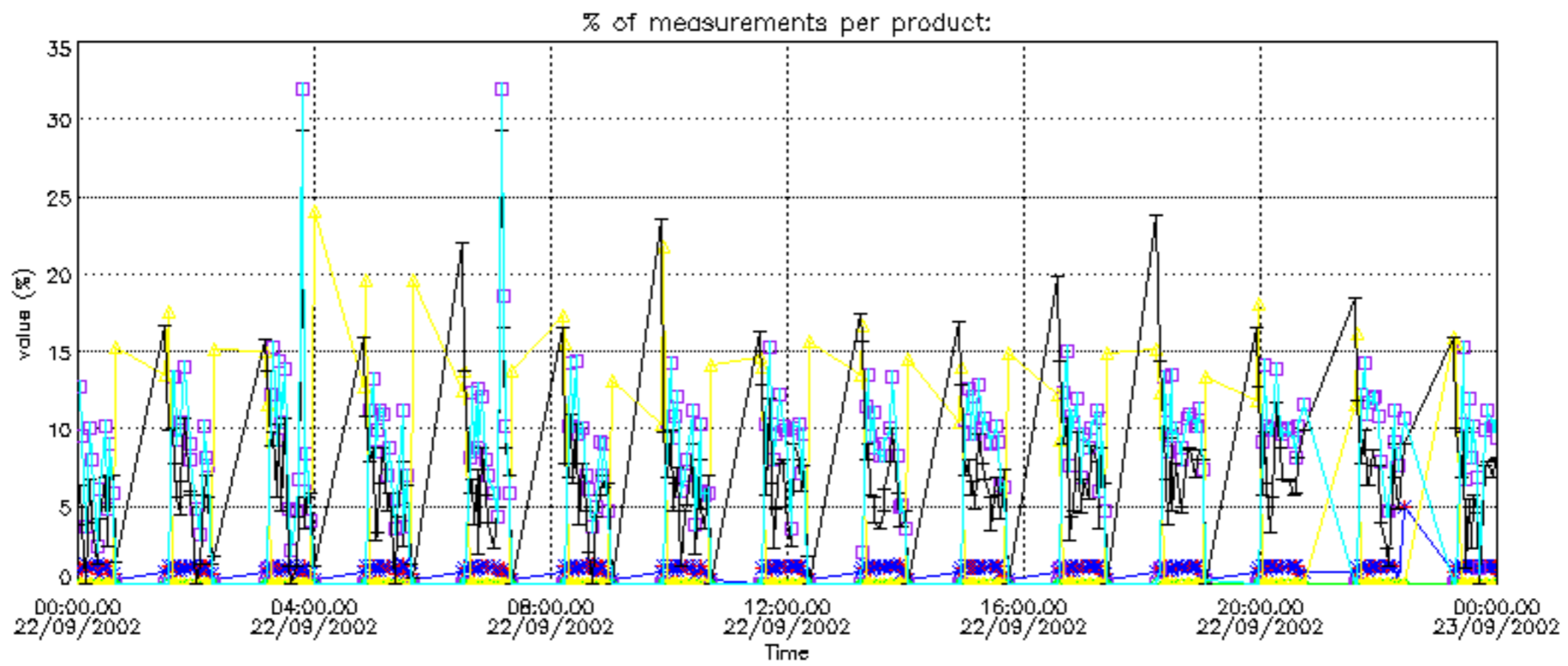
Percentage of flagged data per NO2 profile



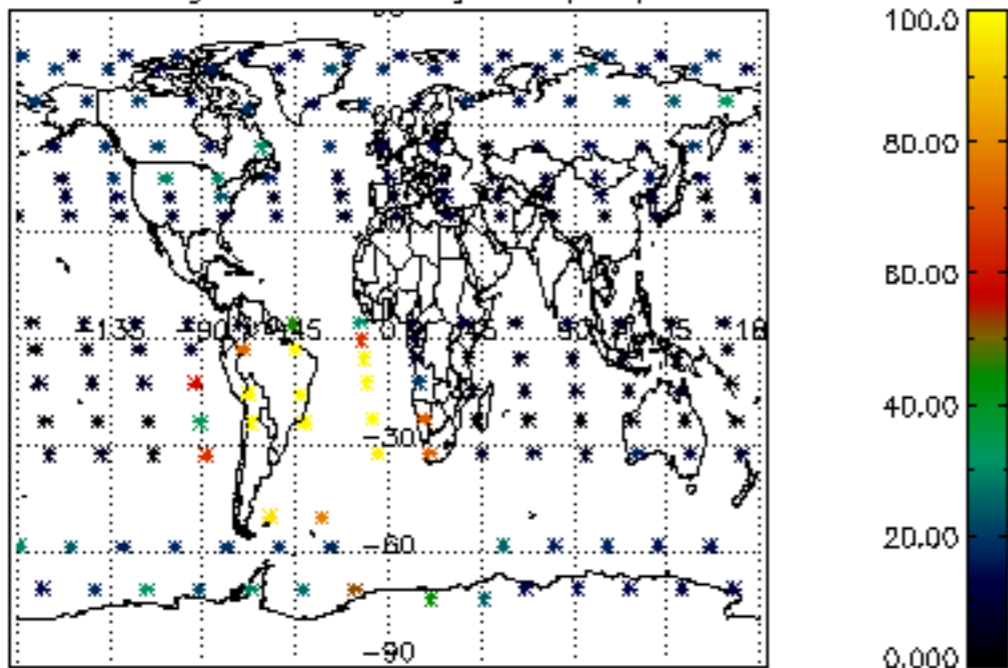
Percentage of flagged data per NO3 profile



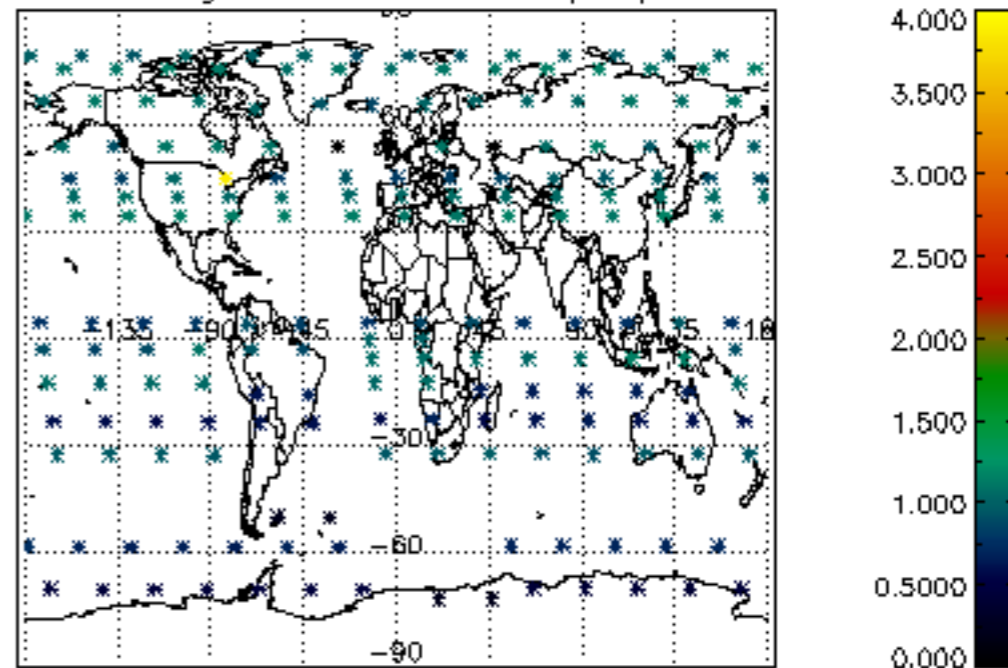




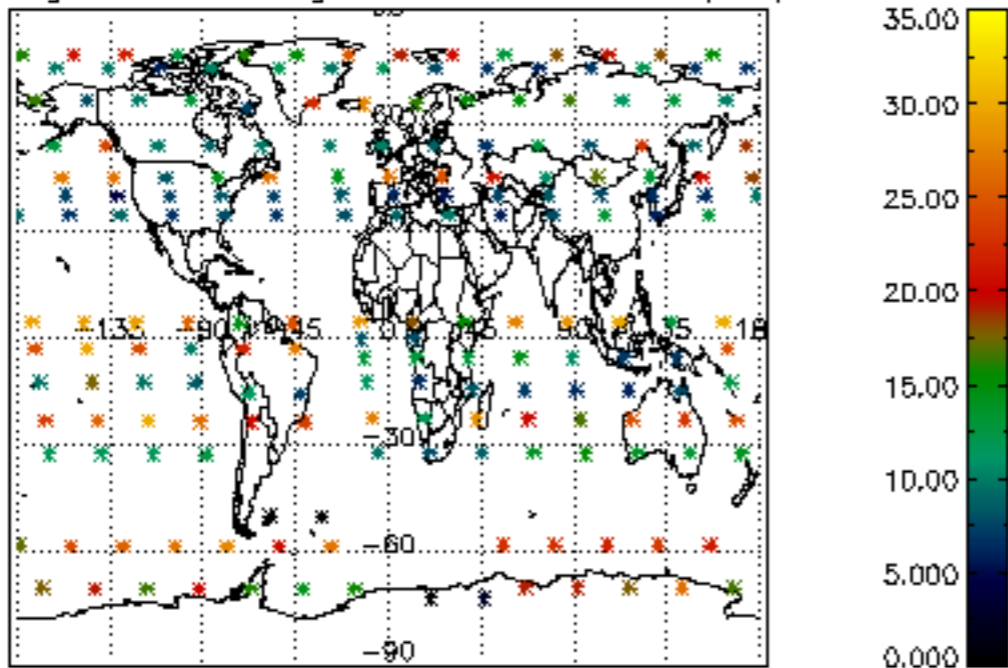
Percentage of cosmic ray hits per profile



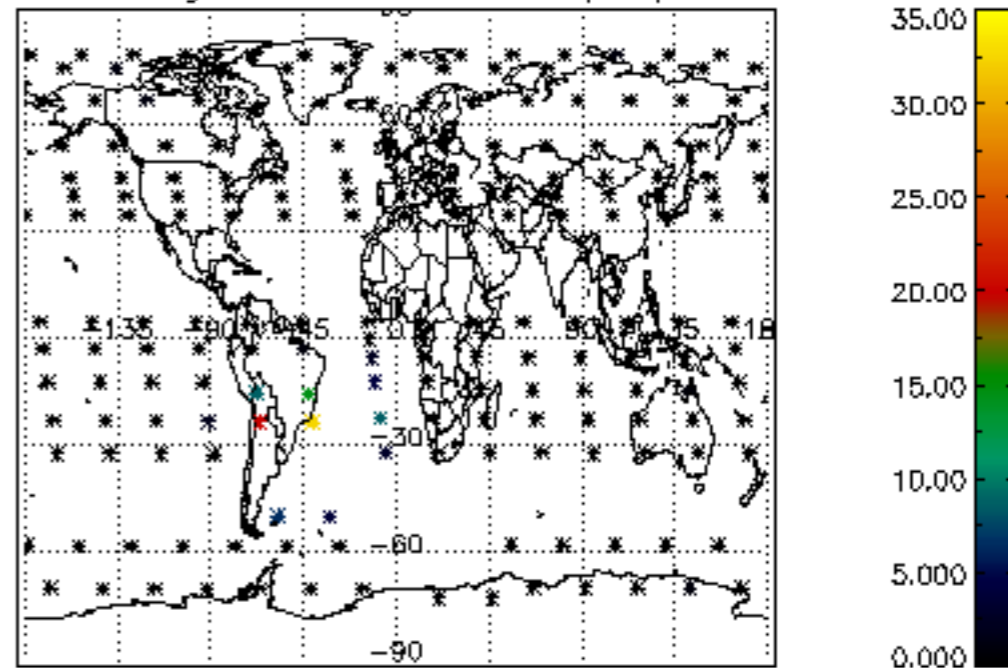
Percentage of datation errors per profile



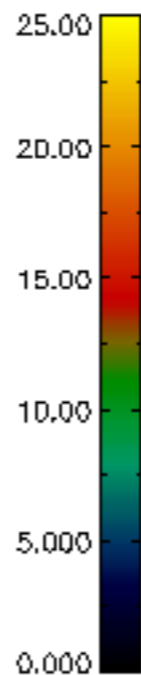
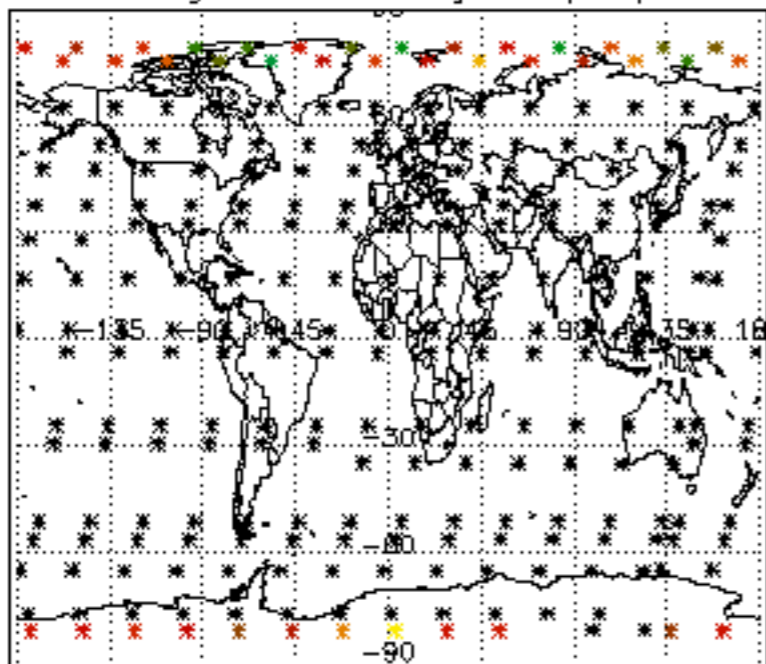
Percentage of star falling outside central band per profile



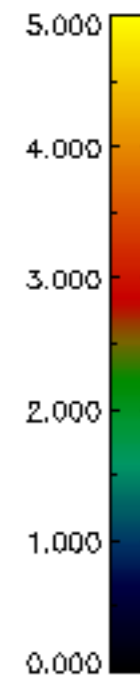
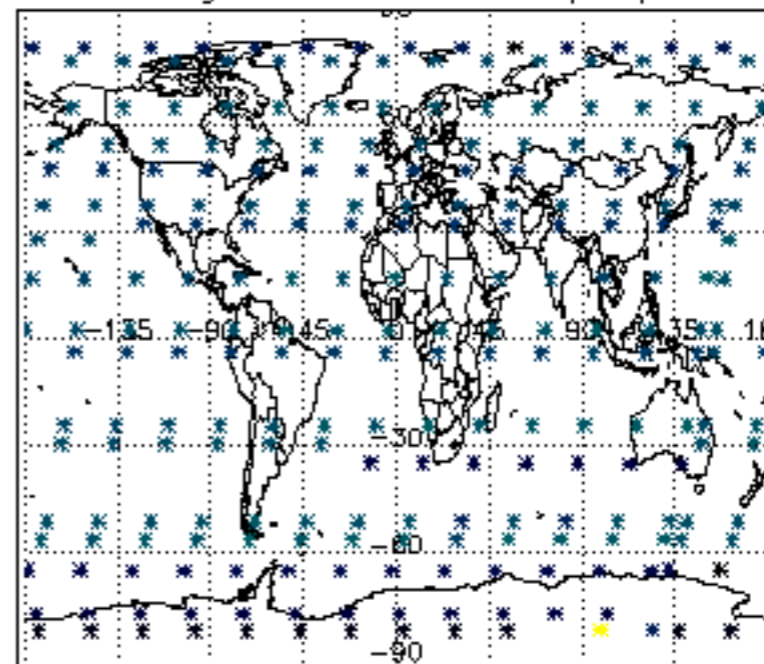
Percentage of saturation errors per profile



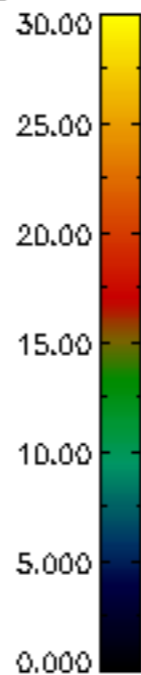
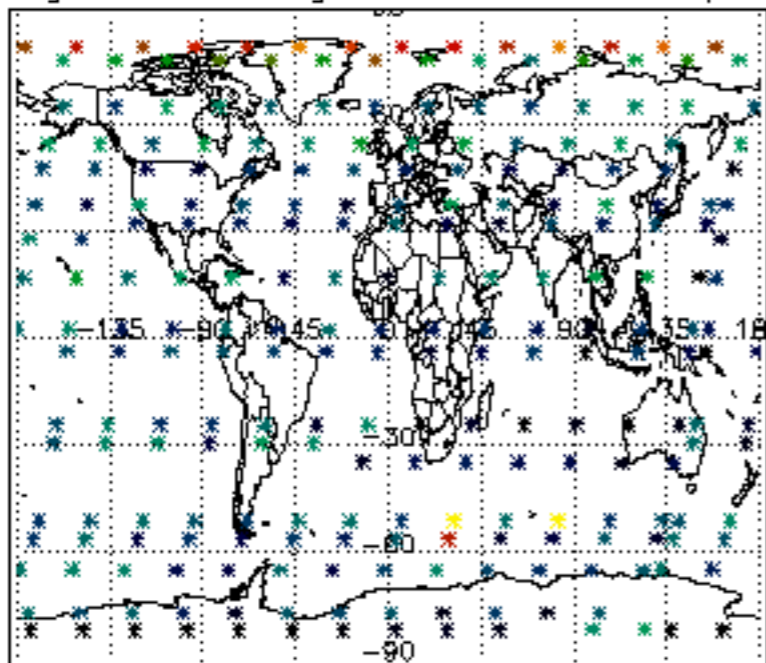
Percentage of cosmic ray hits per profile



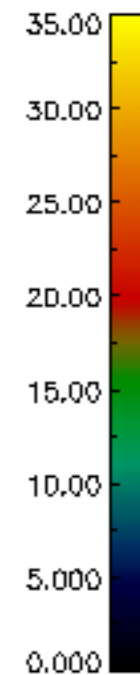
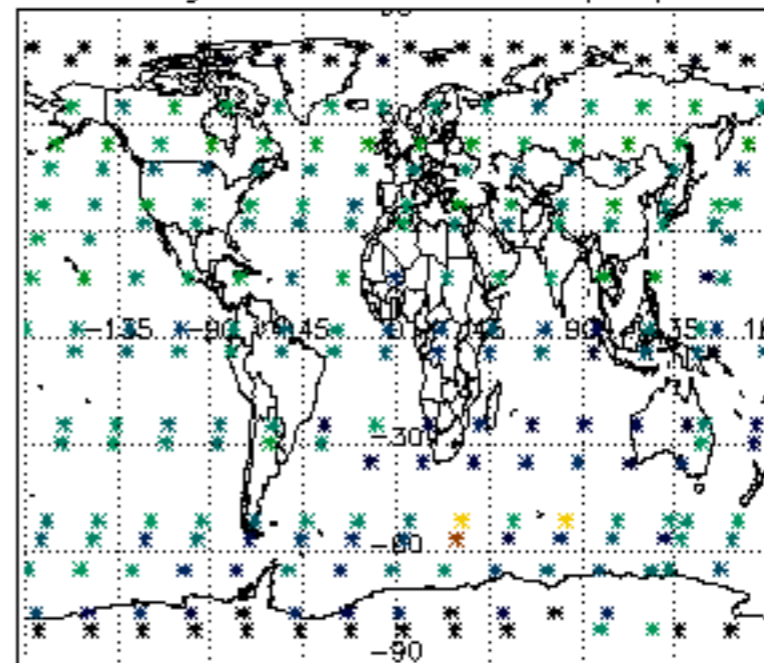
Percentage of datation errors per profile

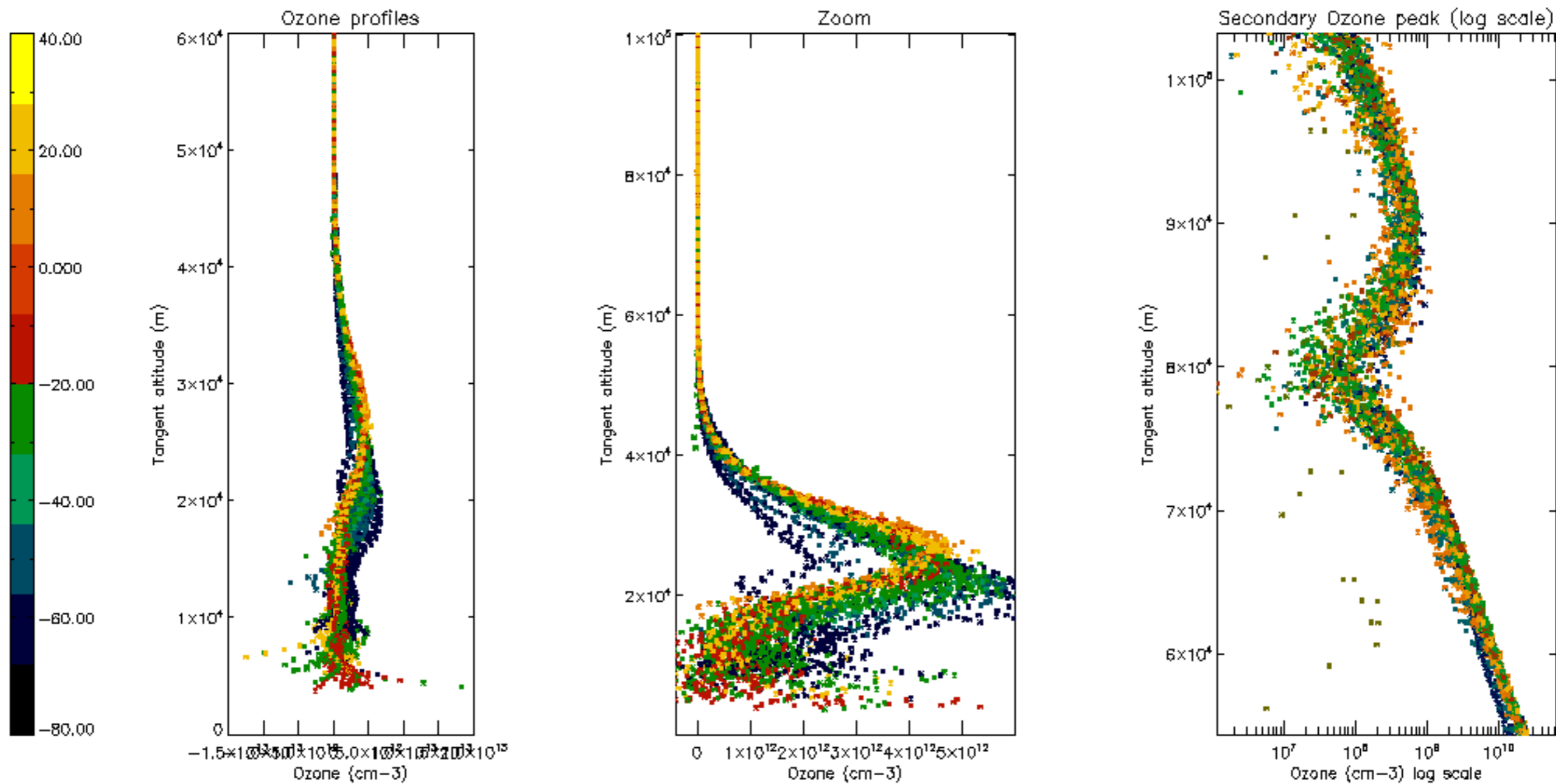


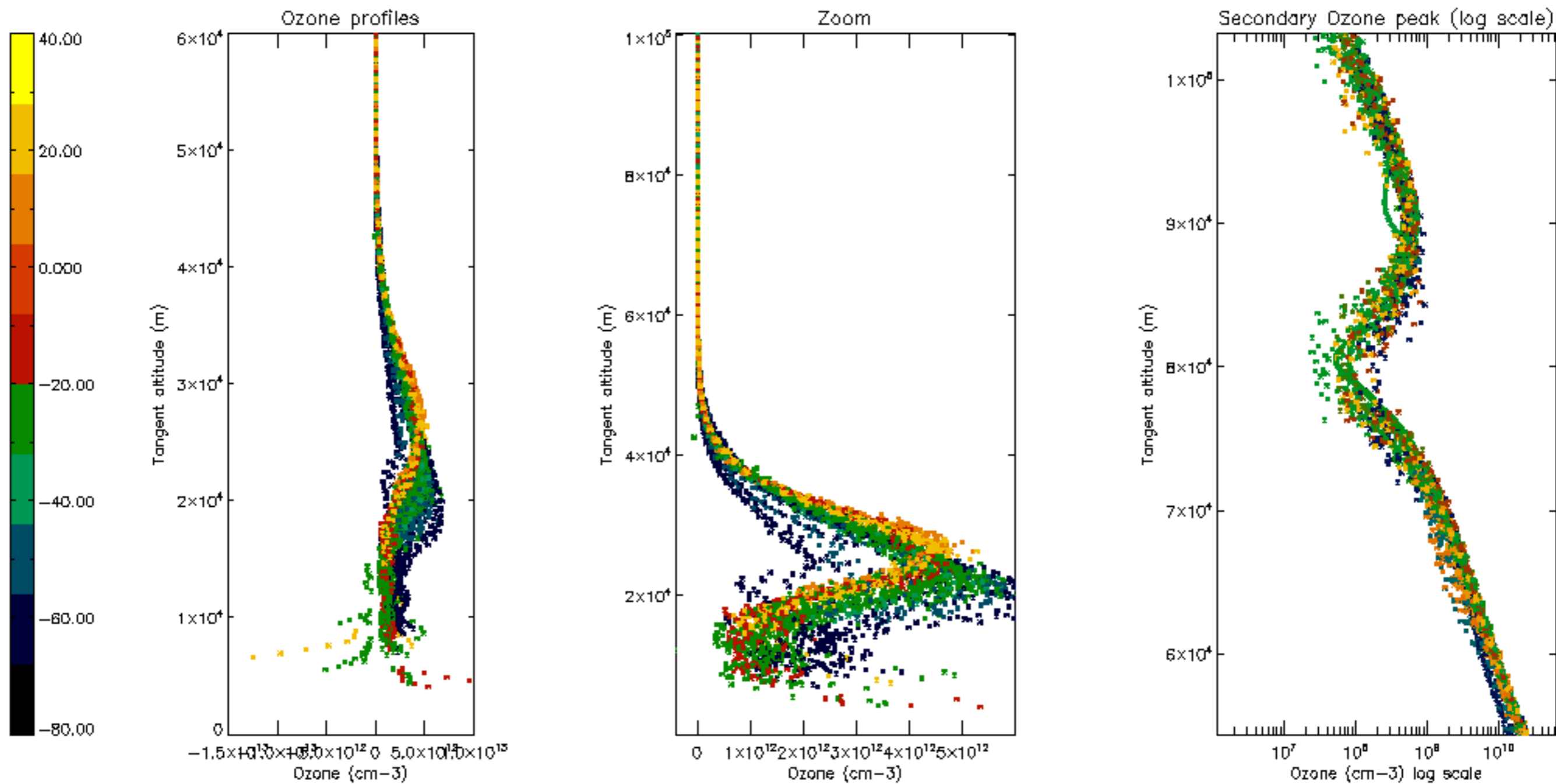
Percentage of star falling outside central band per profile

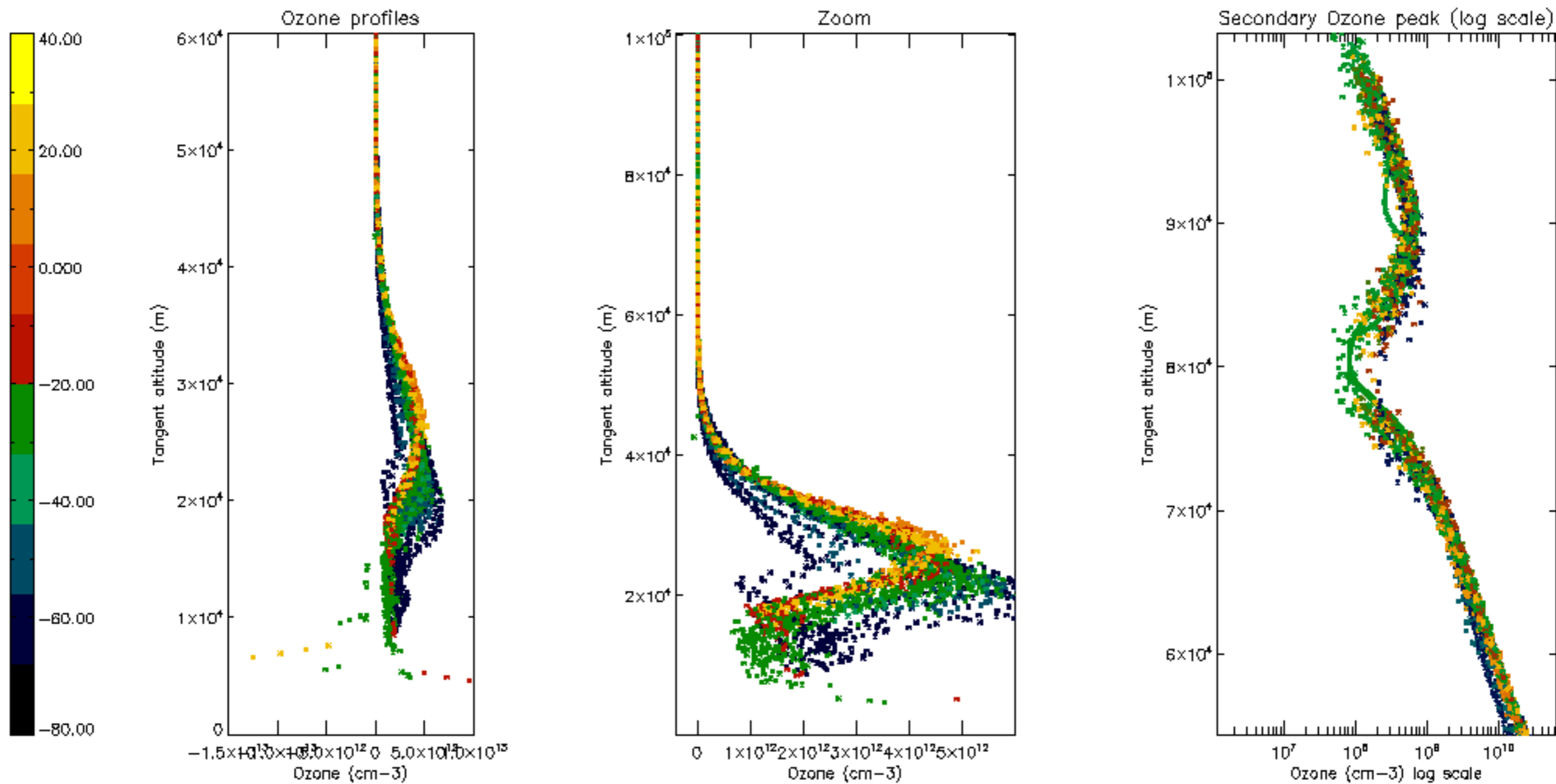


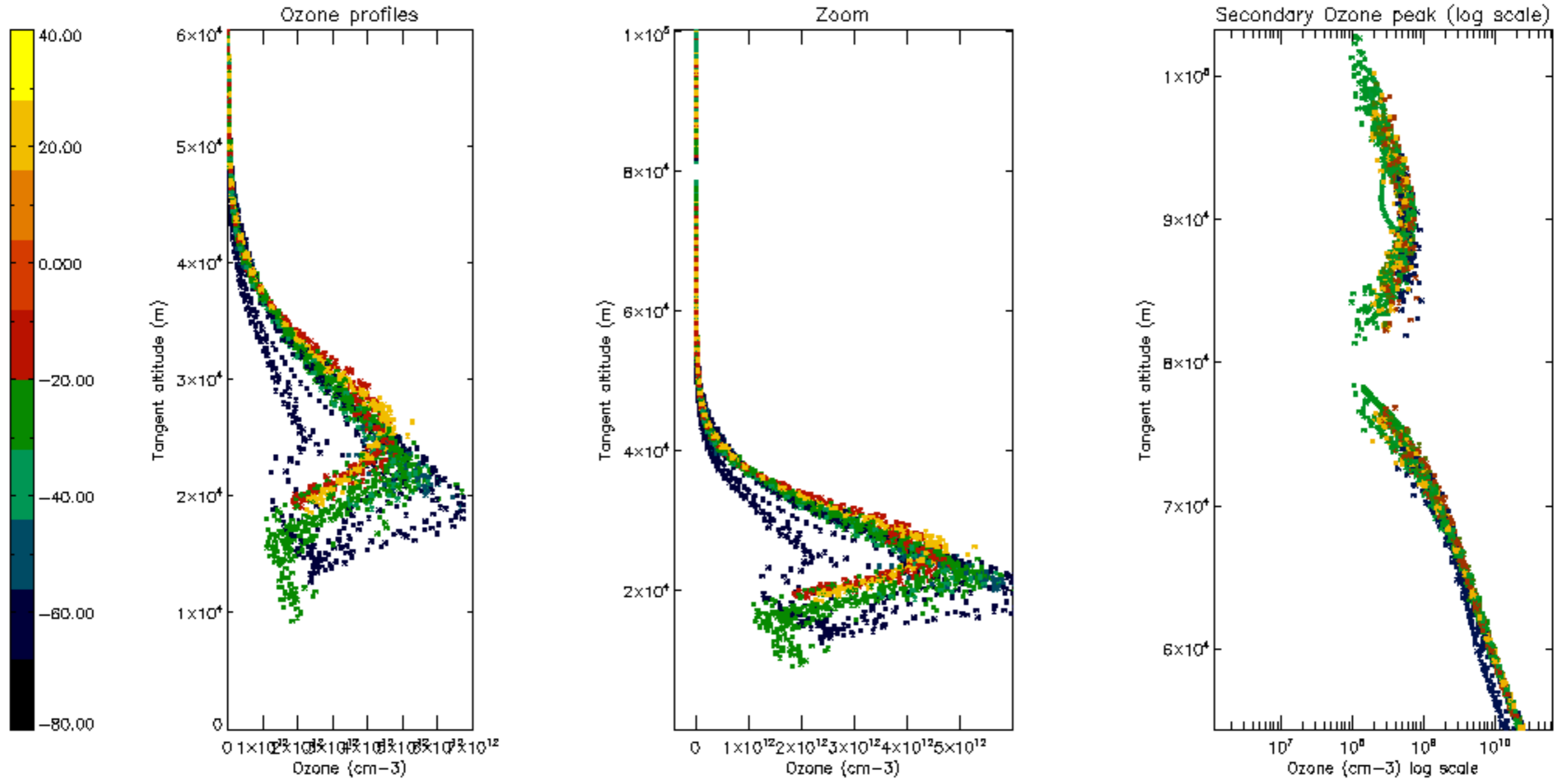
Percentage of saturation errors per profile

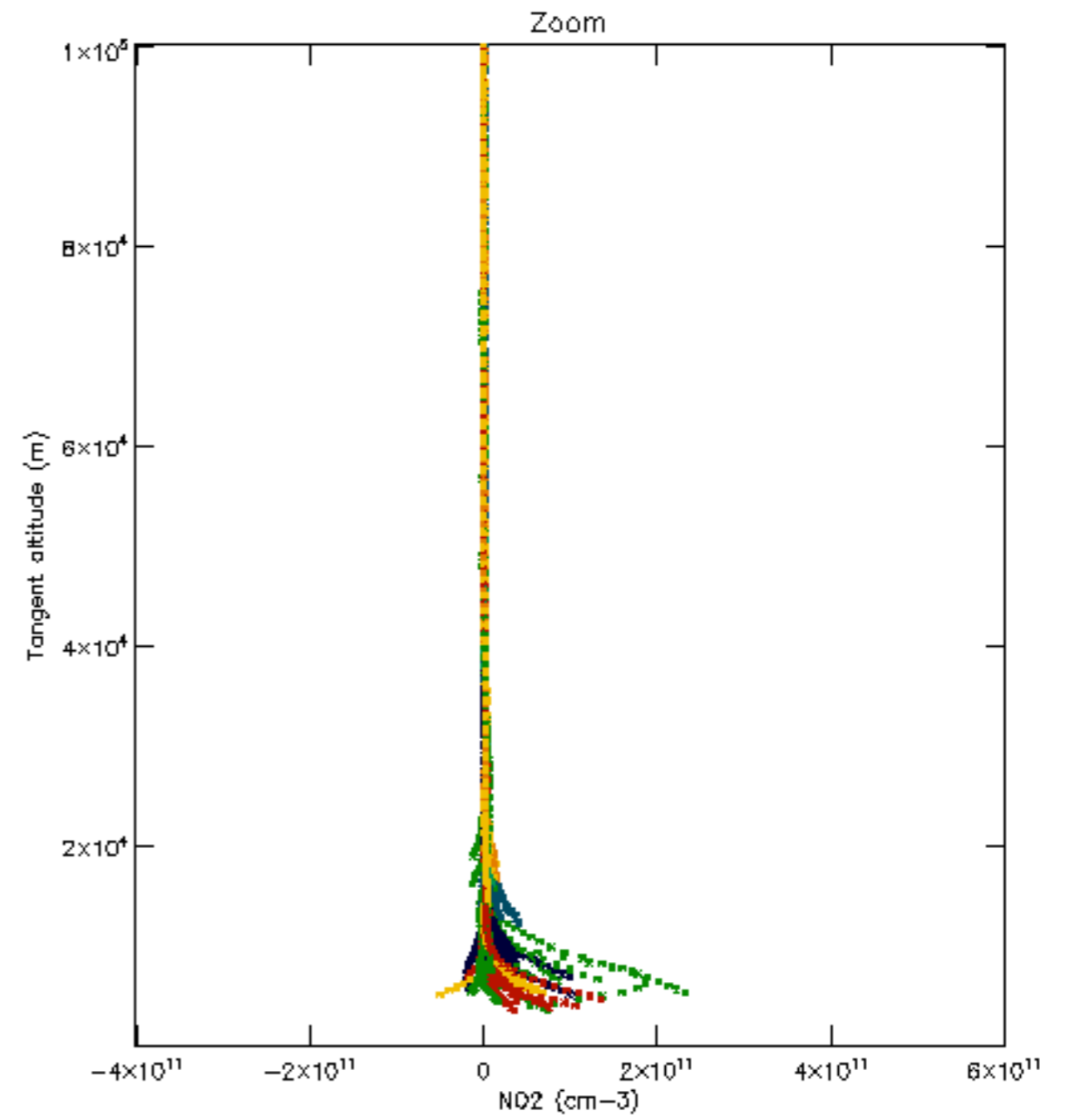
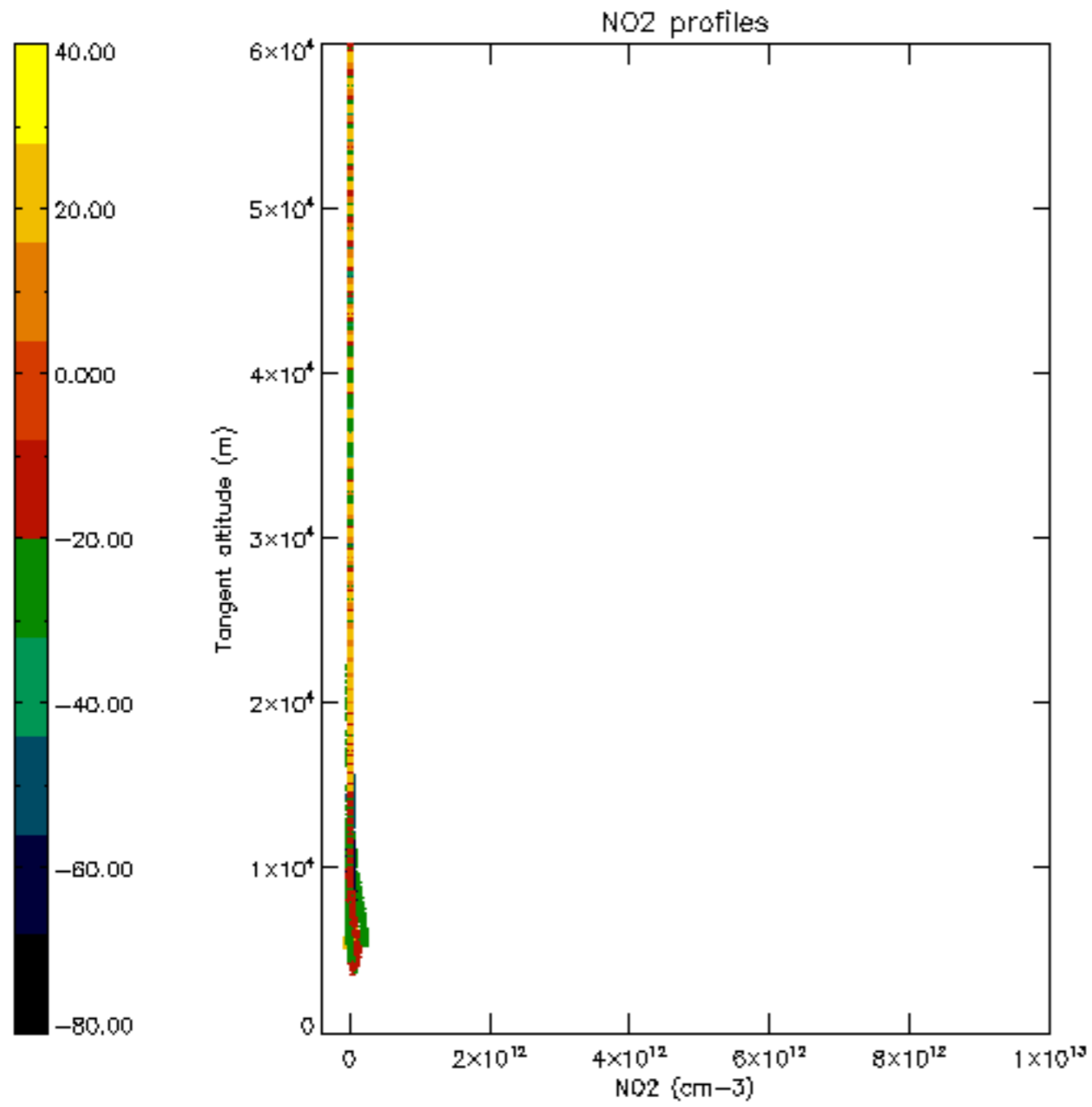


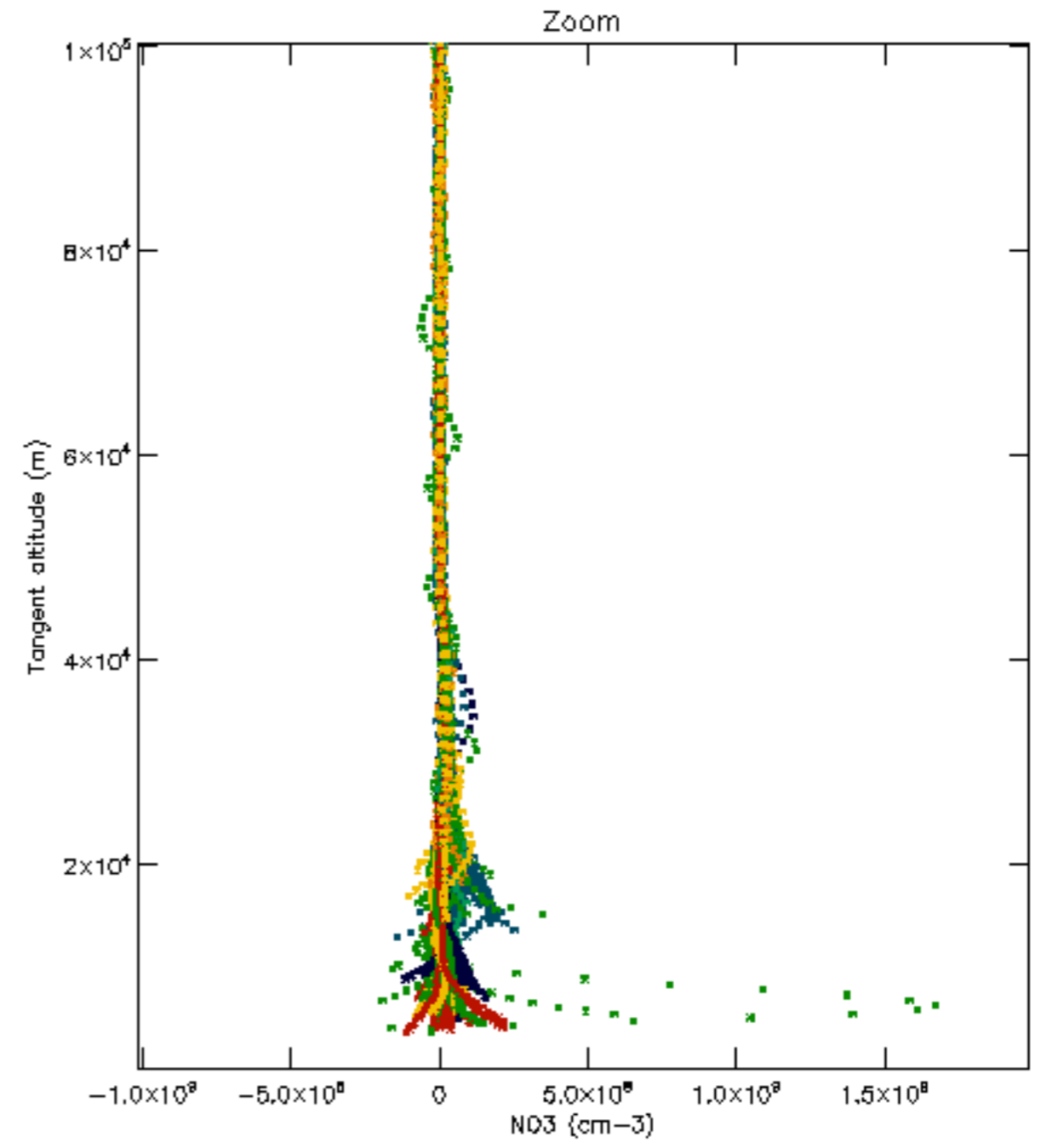
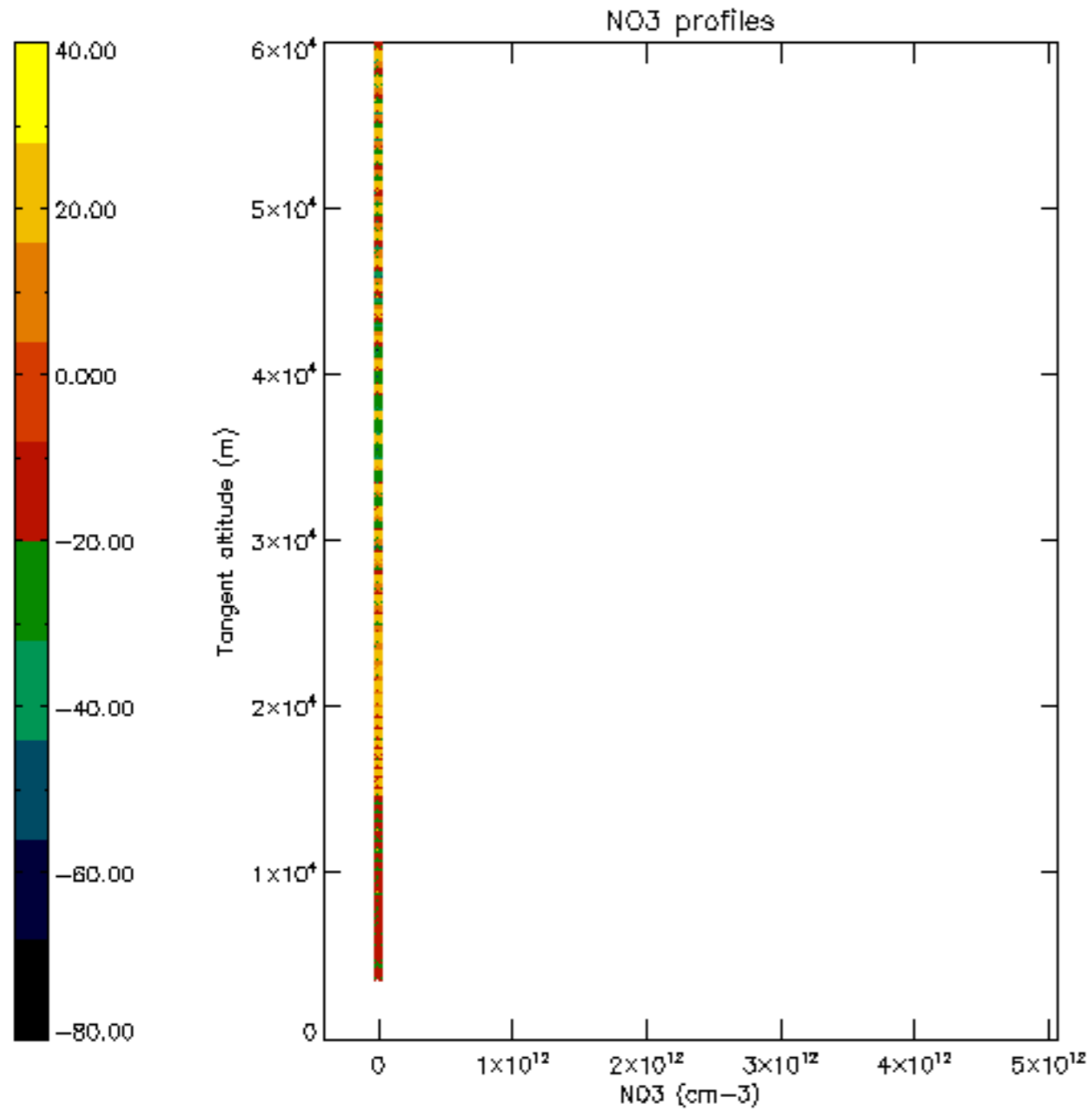


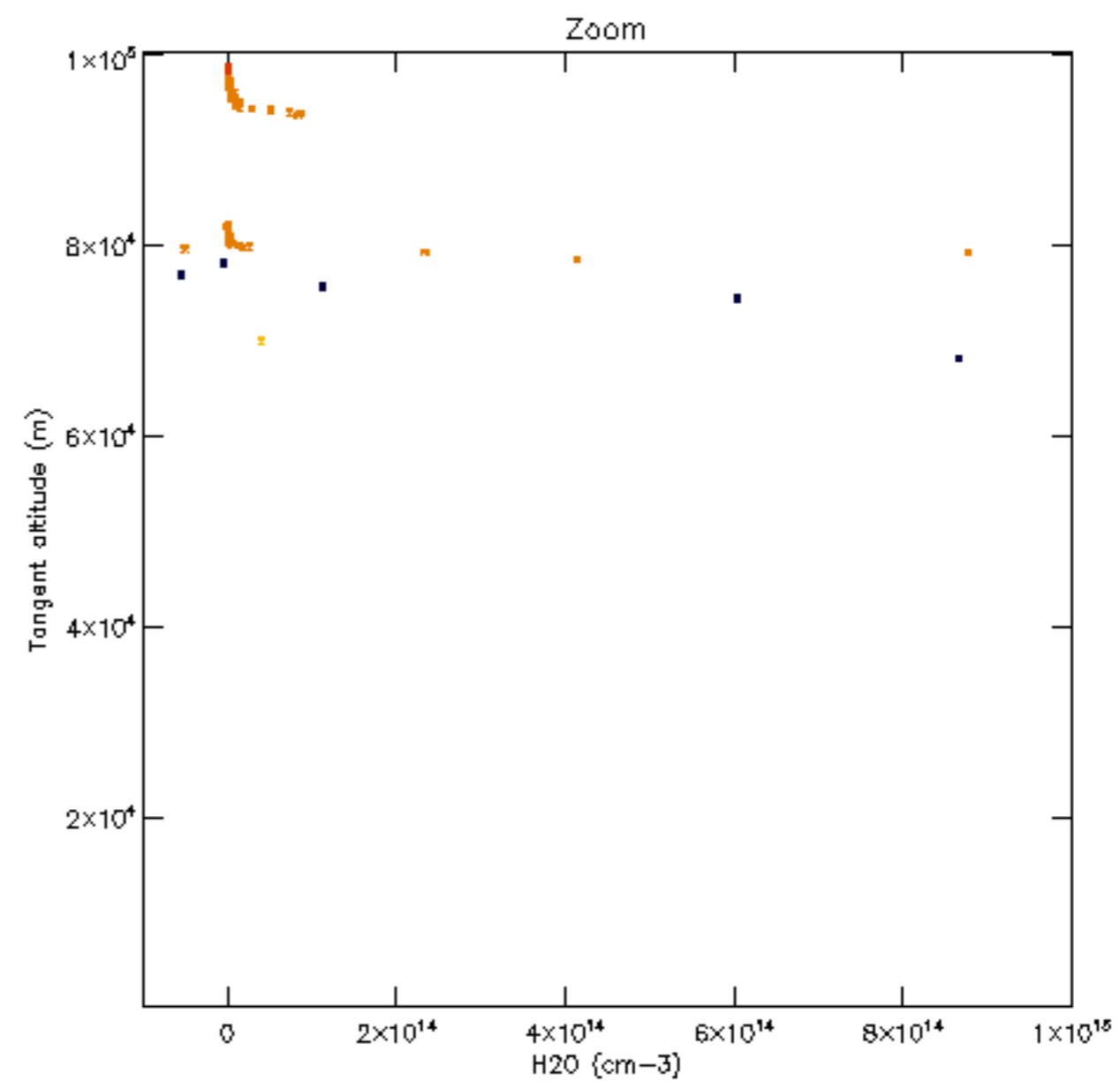
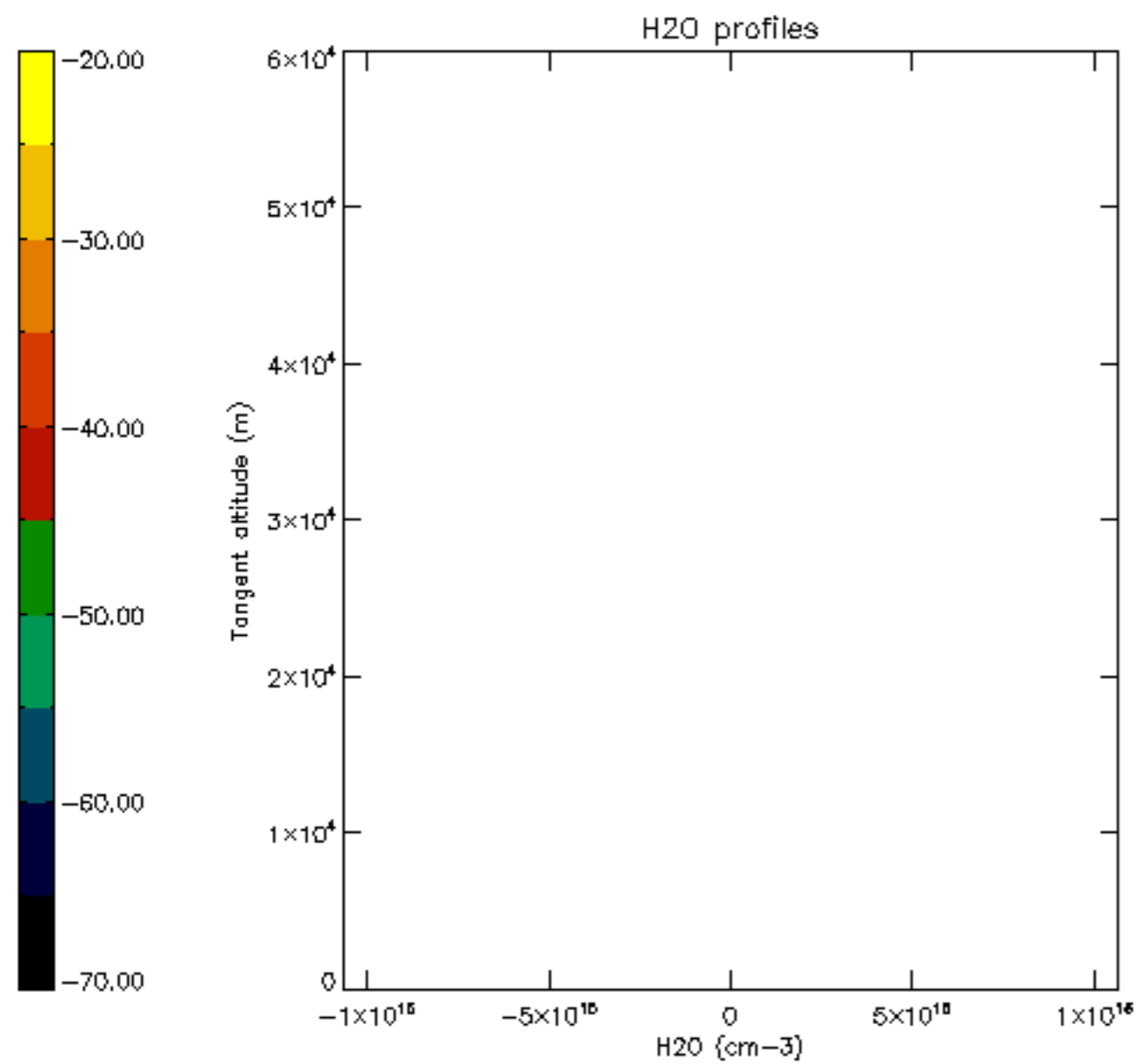


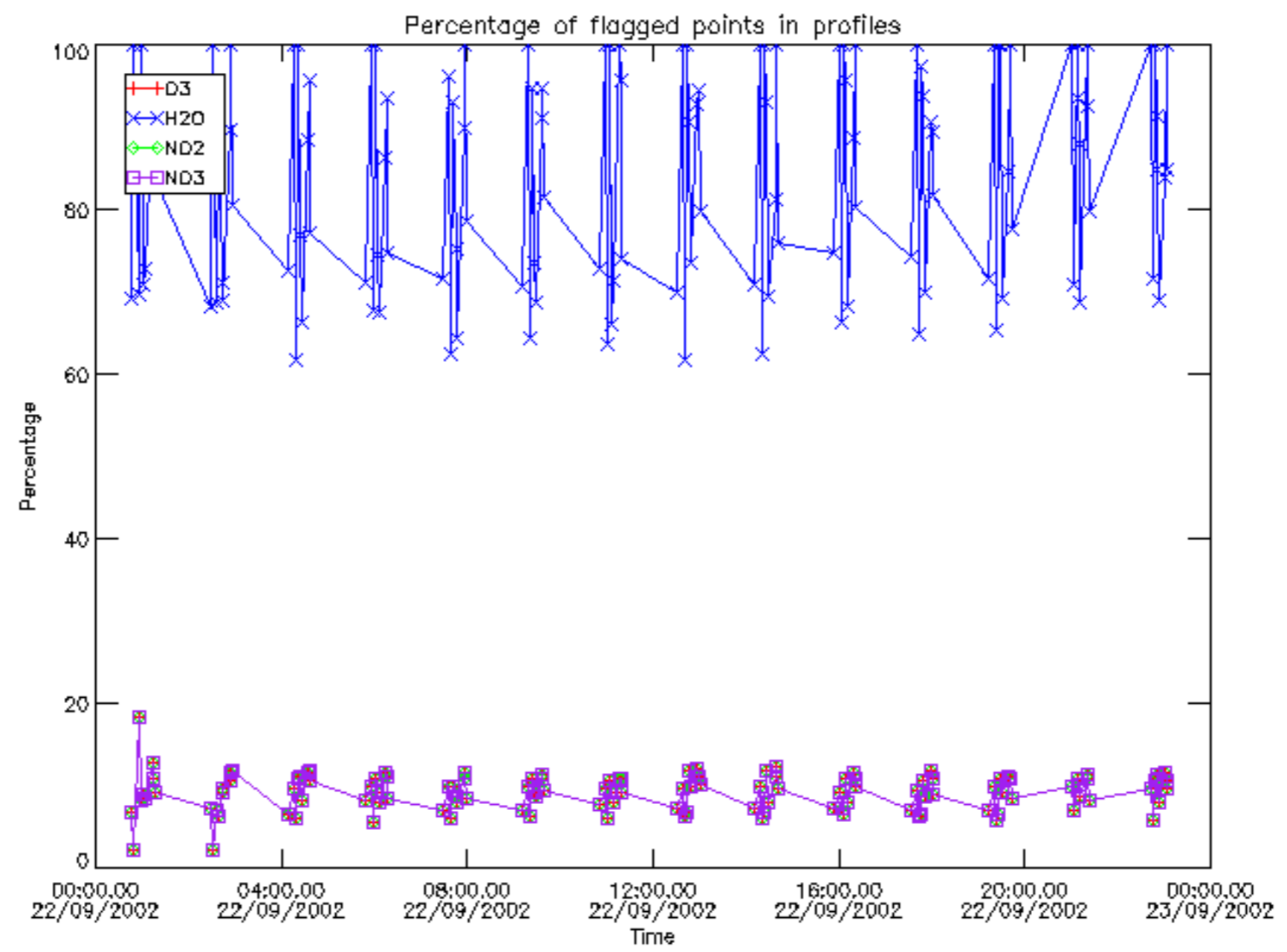




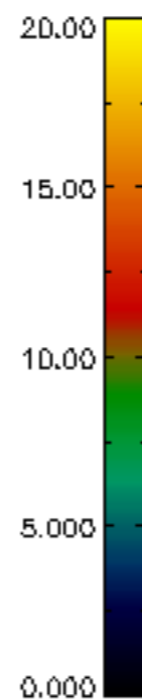
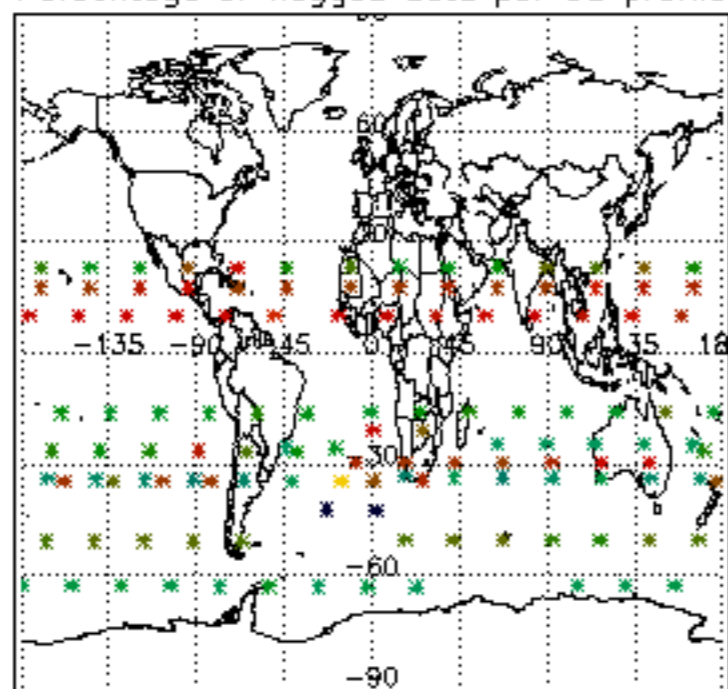




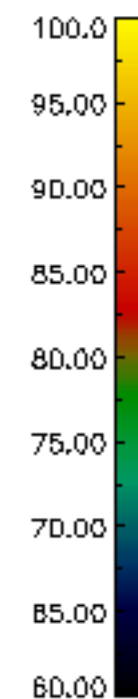
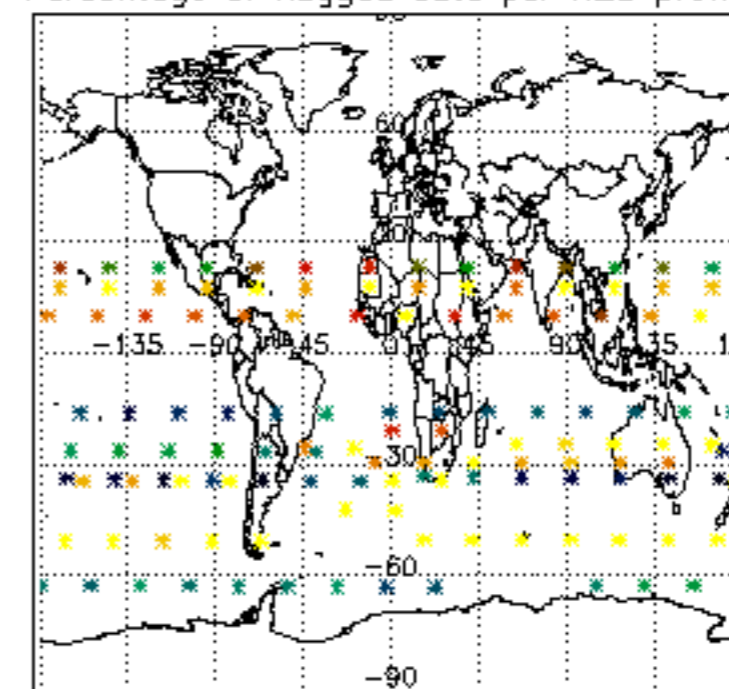




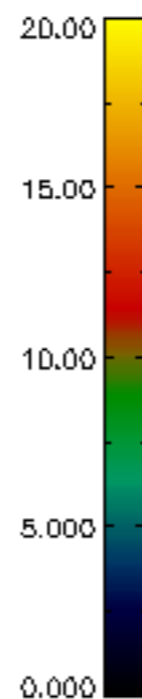
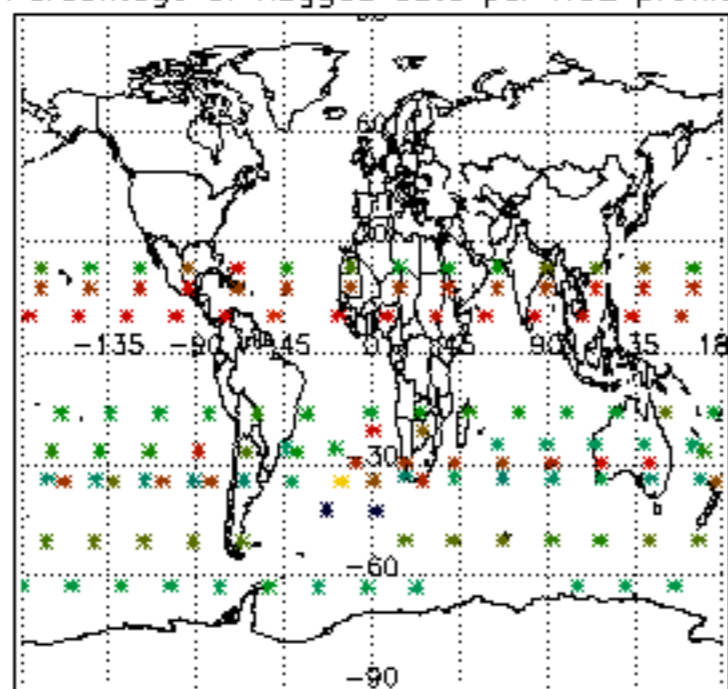
Percentage of flagged data per D3 profile



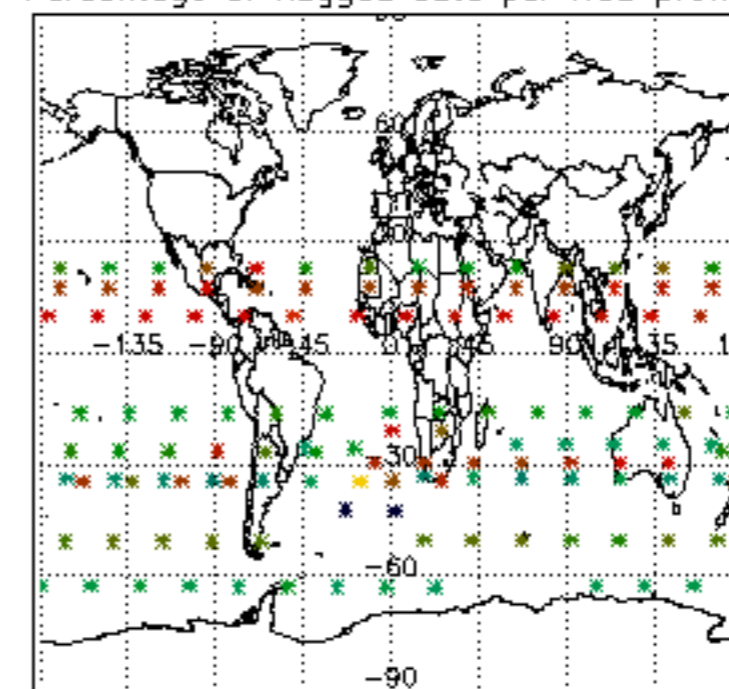
Percentage of flagged data per H2O profile

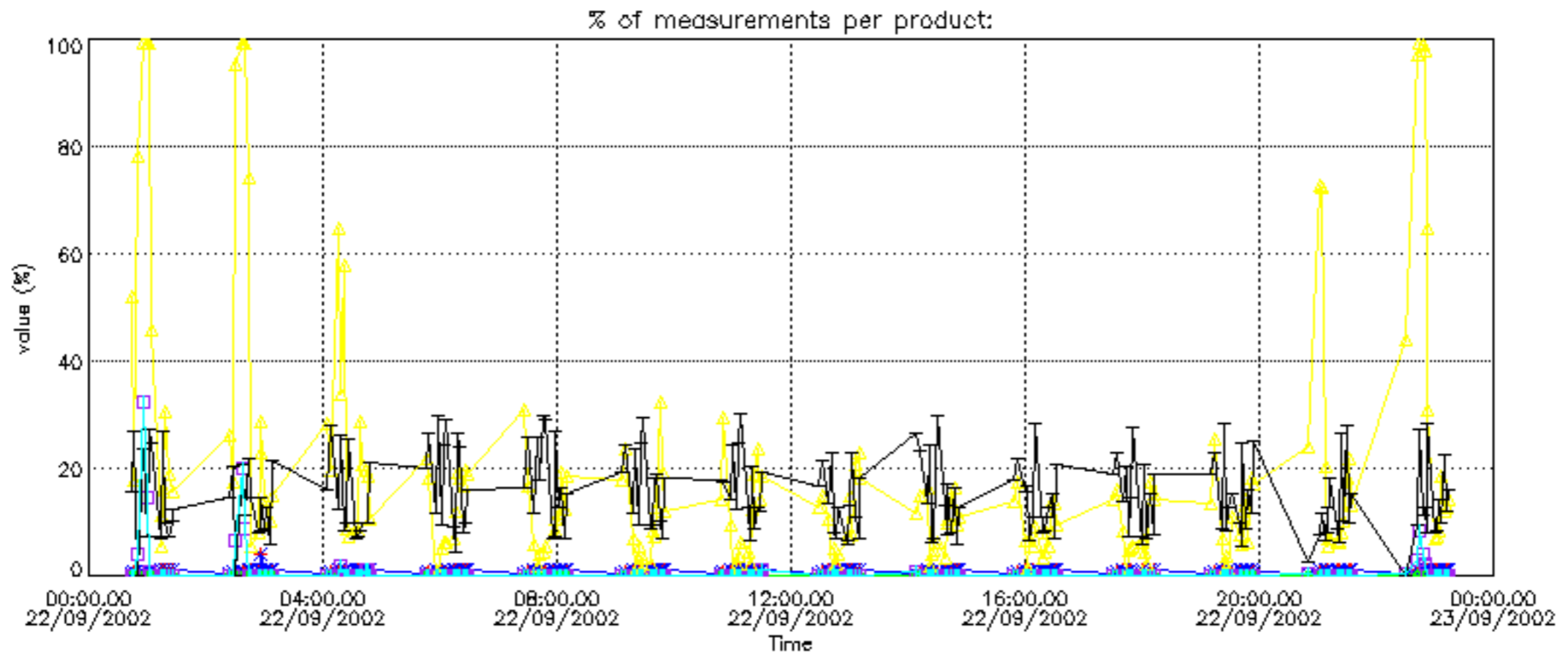


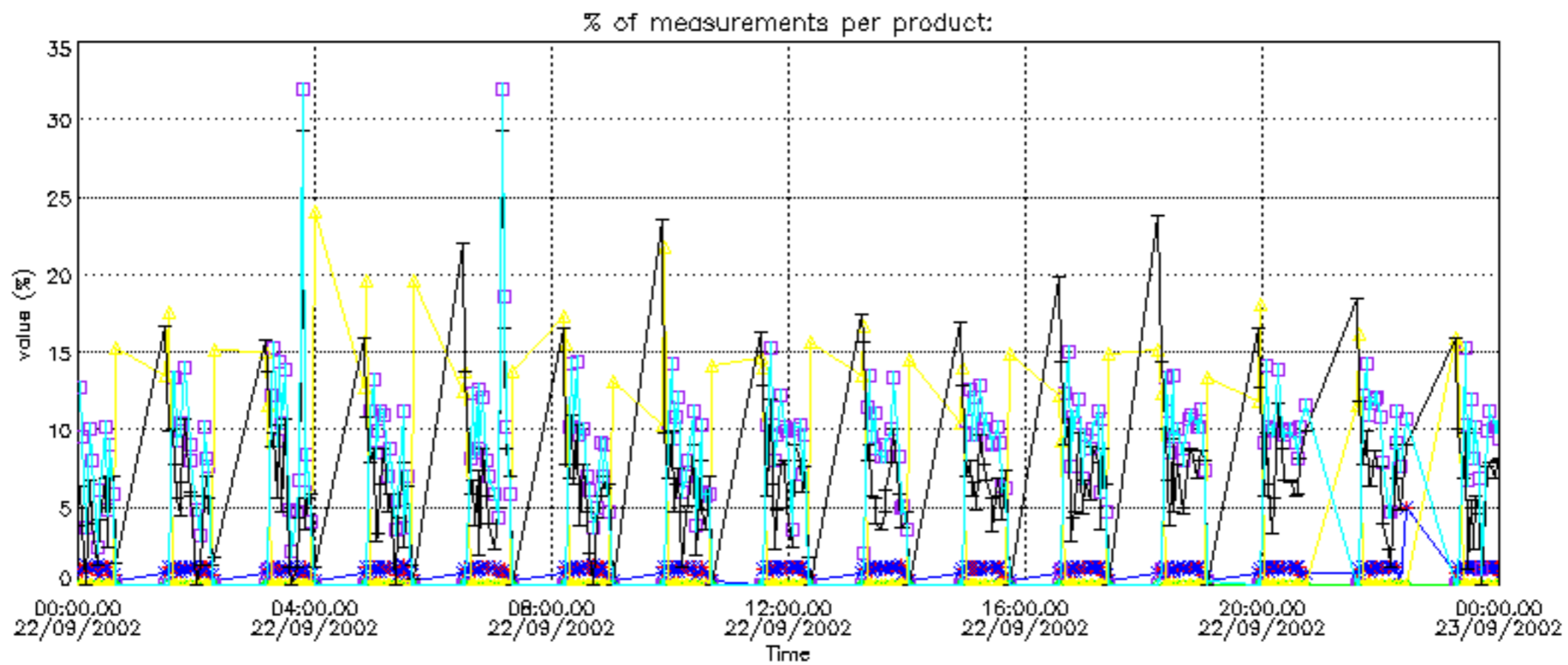
Percentage of flagged data per NO2 profile



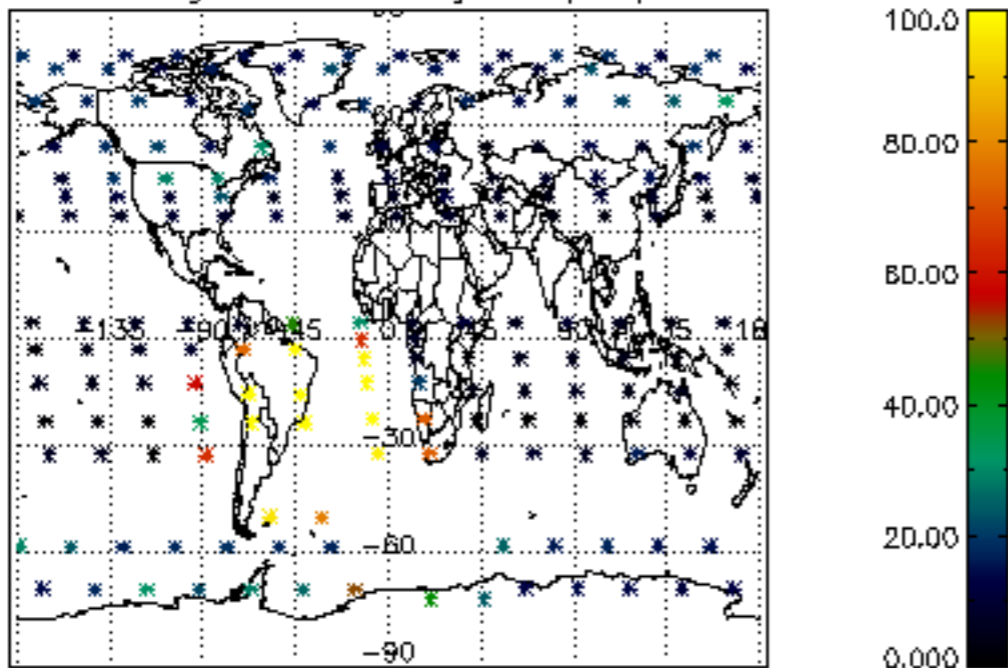
Percentage of flagged data per NO3 profile



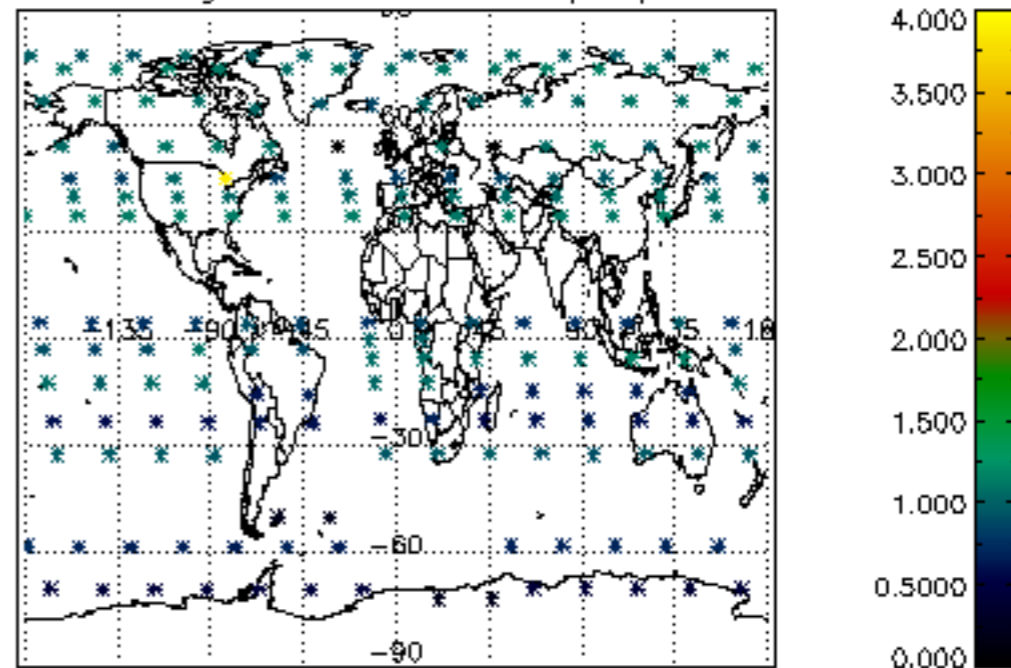




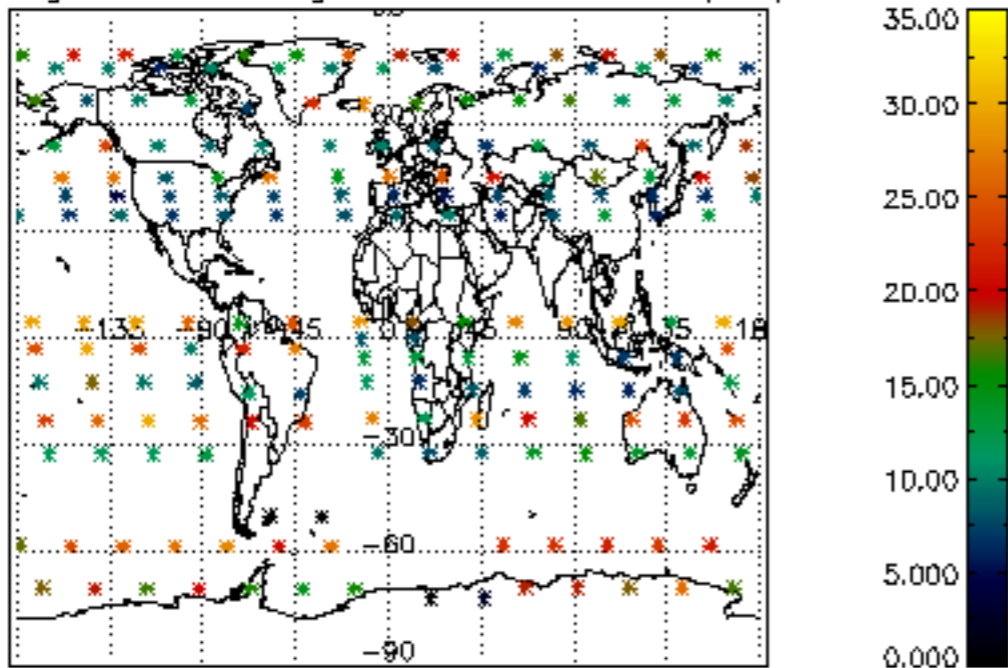
Percentage of cosmic ray hits per profile



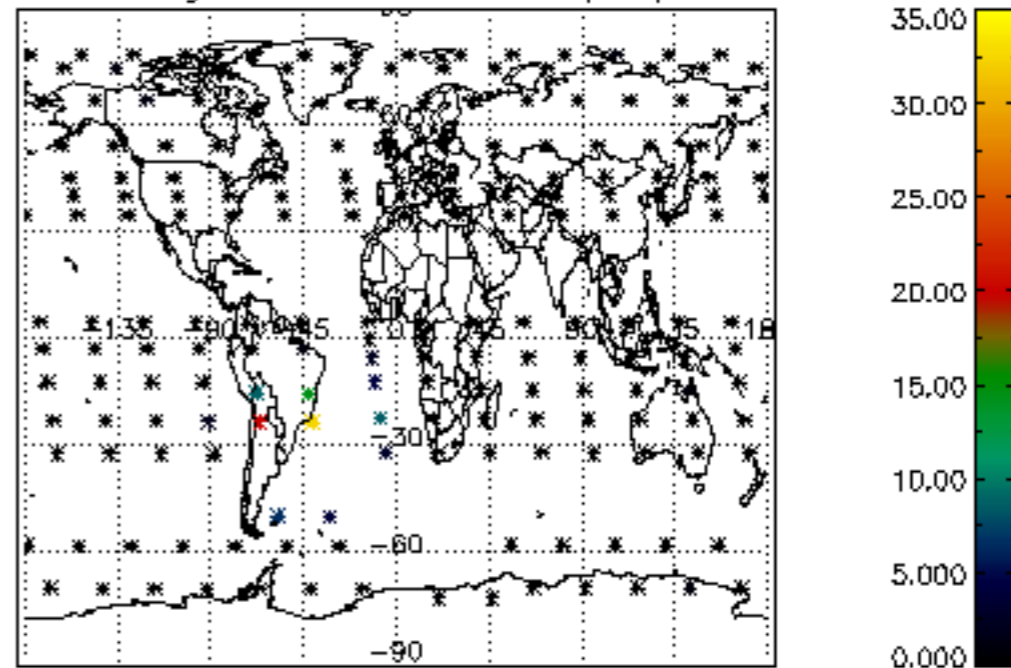
Percentage of datation errors per profile



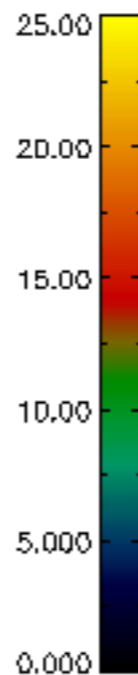
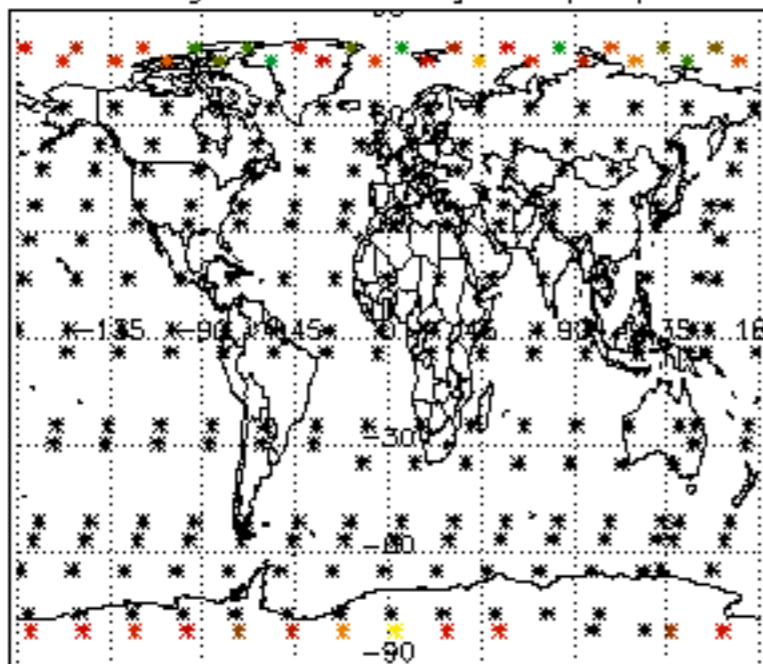
Percentage of star falling outside central band per profile



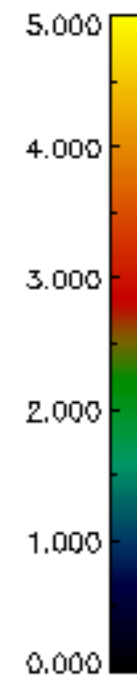
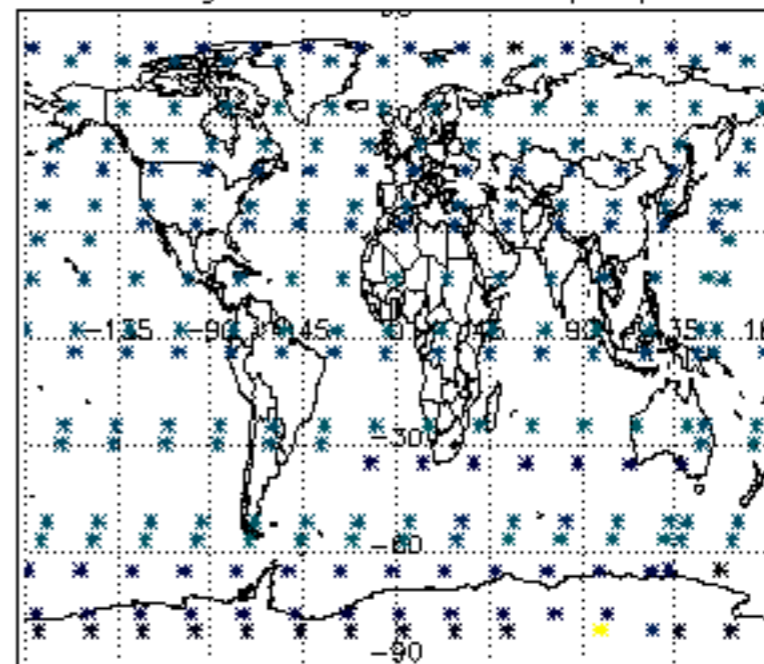
Percentage of saturation errors per profile



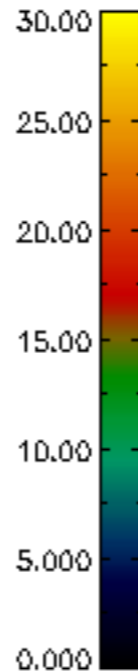
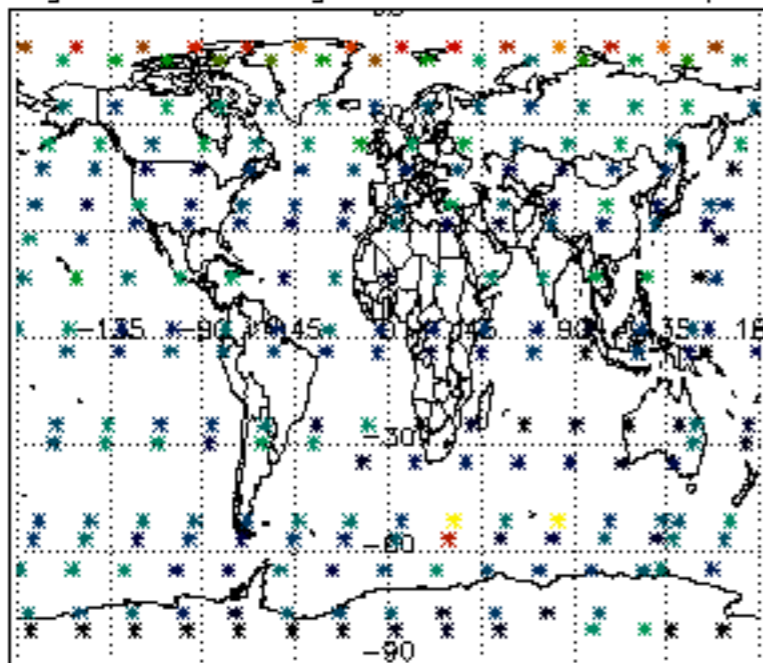
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

