

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	17APR2013 17:55:41
Data source version	GOMOS/6.01
Start time of products	28-08-2002 (28AUG2002 00:00:00)
Stop time of products	29-08-2002 (29AUG2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	108
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__2PRFIN20020828_000130_000000482009_00016_02575_2529.N1	28-AUG-2002 00:01:30	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	2575	No
2	GOM_NL__2PRFIN20020828_000343_000000482009_00016_02575_2530.N1	28-AUG-2002 00:03:43	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	2575	No
3	GOM_NL__2PRFIN20020828_000544_000000382009_00016_02575_2531.N1	28-AUG-2002 00:05:44	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	2575	No
4	GOM_NL__2PRFIN20020828_001024_000000982009_00016_02575_2532.N1	28-AUG-2002 00:10:24	Bright	98.000	73	57Gam1And	2.2600	13100.	196	2575	No
5	GOM_NL__2PRFIN20020828_001316_000000652009_00016_02575_2533.N1	28-AUG-2002 00:13:16	Bright	64.500	35	33Alp Per	1.7950	6250.0	129	2575	No
6	GOM_NL__2PRFIN20020828_001631_000002552009_00016_02575_2534.N1	28-AUG-2002 00:16:31	Twilight	255.000	173	4Bet Tri	3.0040	8900.0	510	2575	No
7	GOM_NL__2PRFIN20020828_002231_000000392009_00016_02575_2535.N1	28-AUG-2002 00:22:31	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	2575	No
8	GOM_NL__2PRFIN20020828_002459_000000662009_00016_02575_2536.N1	28-AUG-2002 00:24:59	Twilight	65.500	28	12Bet Tau	1.6500	15200.	131	2575	No
9	GOM_NL__2PRFIN20020828_002758_000000522009_00016_02575_2537.N1	28-AUG-2002 00:27:58	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	2575	No
10	GOM_NL__2PRFIN20020828_003005_000000472009_00016_02575_2538.N1	28-AUG-2002 00:30:05	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	2575	No
11	GOM_NL__2PRFIN20020828_003211_000000702009_00016_02575_2539.N1	28-AUG-2002 00:32:11	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2575	No
12	GOM_NL__2PRFIN20020828_003404_000000752009_00016_02575_2540.N1	28-AUG-2002 00:34:04	Dark	74.500	27	24Gam Ori	1.6360	26000.	149	2575	No
13	GOM_NL__2PRFIN20020828_003559_000000652009_00016_02575_2541.N1	28-AUG-2002 00:35:59	Dark	64.500	33	50Zet Ori	1.7660	30000.	129	2575	No
14	GOM_NL__2PRFIN20020828_003835_000000472009_00016_02575_2542.N1	28-AUG-2002 00:38:35	Dark	46.500	47	2Bet CMa	1.9760	28000.	93	2575	No
15	GOM_NL__2PRFIN20020828_004018_000000482009_00016_02575_2543.N1	28-AUG-2002 00:40:18	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	2575	No
16	GOM_NL__2PRFIN20020828_004209_000000402009_00016_02575_2544.N1	28-AUG-2002 00:42:09	Dark	40.000	70	Zet Pup	2.2460	39000.	80	2575	No
17	GOM_NL__2PRFIN20020828_004707_000000522009_00016_02575_2545.N1	28-AUG-2002 00:47:07	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	2575	No
18	GOM_NL__2PRFIN20020828_005027_000001192009_00017_02576_2515.N1	28-AUG-2002 00:50:27	Dark	119.000	165	34Gam Eri	2.9500	3200.0	238	2576	No
19	GOM_NL__2PRFIN20020828_005557_000000562009_00017_02576_2516.N1	28-AUG-2002 00:55:57	Dark	56.000	157	The1Eri	2.9060	9300.0	112	2576	No
20	GOM_NL__2PRFIN20020828_005831_000000492009_00017_02576_2517.N1	28-AUG-2002 00:58:31	Dark	48.500	9	Alp Eri	0.45300	24000.	97	2576	No
21	GOM_NL__2PRFIN20020828_010315_000000432009_00017_02576_2518.N1	28-AUG-2002 01:03:15	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	2576	No
22	GOM_NL__2PRFIN20020828_010523_000000392009_00017_02576_2519.N1	28-AUG-2002 01:05:23	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	2576	No
23	GOM_NL__2PRFIN20020828_010653_000000422009_00017_02576_2520.N1	28-AUG-2002 01:06:53	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	2576	No
24	GOM_NL__2PRFIN20020828_011055_000000532009_00017_02576_2521.N1	28-AUG-2002 01:10:55	Straylight	52.500	18	24Alp PsA	1.1660	9700.0	105	2576	No
25	GOM_NL__2PRFIN20020828_011342_000001162009_00017_02576_2522.N1	28-AUG-2002 01:13:42	Bright	116.000	52	16Bet Cet	2.0370	4500.0	232	2576	No
26	GOM_NL__2PRFIN20020828_011906_000000402009_00017_02576_2523.N1	28-AUG-2002 01:19:06	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2576	No
27	GOM_NL__2PRFIN20020828_012041_000000432009_00017_02576_2524.N1	28-AUG-2002 01:20:41	Bright	43.000	162	34Alp Aqr	2.9440	5350.0	86	2576	No
28	GOM_NL__2PRFIN20020828_012400_000000392009_00017_02576_2525.N1	28-AUG-2002 01:24:00	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	2576	No
29	GOM_NL__2PRFIN20020828_012710_000000542009_00017_02576_2526.N1	28-AUG-2002 01:27:10	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	2576	No
30	GOM_NL__2PRFIN20020828_013030_000000392009_00017_02576_2527.N1	28-AUG-2002 01:30:30	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	2576	No
31	GOM_NL__2PRFIN20020828_013218_000000362009_00017_02576_2528.N1	28-AUG-2002 01:32:18	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	2576	No
32	GOM_NL__2PRFIN20020828_013341_000000392009_00017_02576_2529.N1	28-AUG-2002 01:33:41	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	2576	No
33	GOM_NL__2PRFIN20020828_013634_000000742009_00017_02576_2530.N1	28-AUG-2002 01:36:34	Bright	74.000	58	21Alp And	2.0730	11000.	148	2576	No
34	GOM_NL__2PRFIN20020828_014206_000000472009_00017_02576_2531.N1	28-AUG-2002 01:42:06	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	2576	No
35	GOM_NL__2PRFIN20020828_014418_000000462009_00017_02576_2532.N1	28-AUG-2002 01:44:18	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	2576	No
36	GOM_NL__2PRFIN20020828_014619_000000372009_00017_02576_2533.N1	28-AUG-2002 01:46:19	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	2576	No
37	GOM_NL__2PRFIN20020828_015058_000000982009_00017_02576_2534.N1	28-AUG-2002 01:50:58	Bright	98.000	73	57Gam1And	2.2600	13100.	196	2576	No
38	GOM_NL__2PRFIN20020828_015351_000000672009_00017_02576_2535.N1	28-AUG-2002 01:53:51	Bright	66.500	35	33Alp Per	1.7950	6250.0	133	2576	No
39	GOM_NL__2PRFIN20020828_015704_000002552009_00017_02576_2536.N1	28-AUG-2002 01:57:04	Twilight	255.000	173	4Bet Tri	3.0040	8900.0	510	2576	No
40	GOM_NL__2PRFIN20020828_020307_000000402009_00017_02576_2537.N1	28-AUG-2002 02:03:07	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	2576	No
41	GOM_NL__2PRFIN20020828_020535_000000672009_00017_02576_2538.N1	28-AUG-2002 02:05:35	Twilight	66.500	28	12Bet Tau	1.6500	15200.	133	2576	No
42	GOM_NL__2PRFIN20020828_020833_000000542009_00017_02576_2539.N1	28-AUG-2002 02:08:33	Twilight	53.500	44	24Gam Gem	1.9280	11000.	107	2576	No

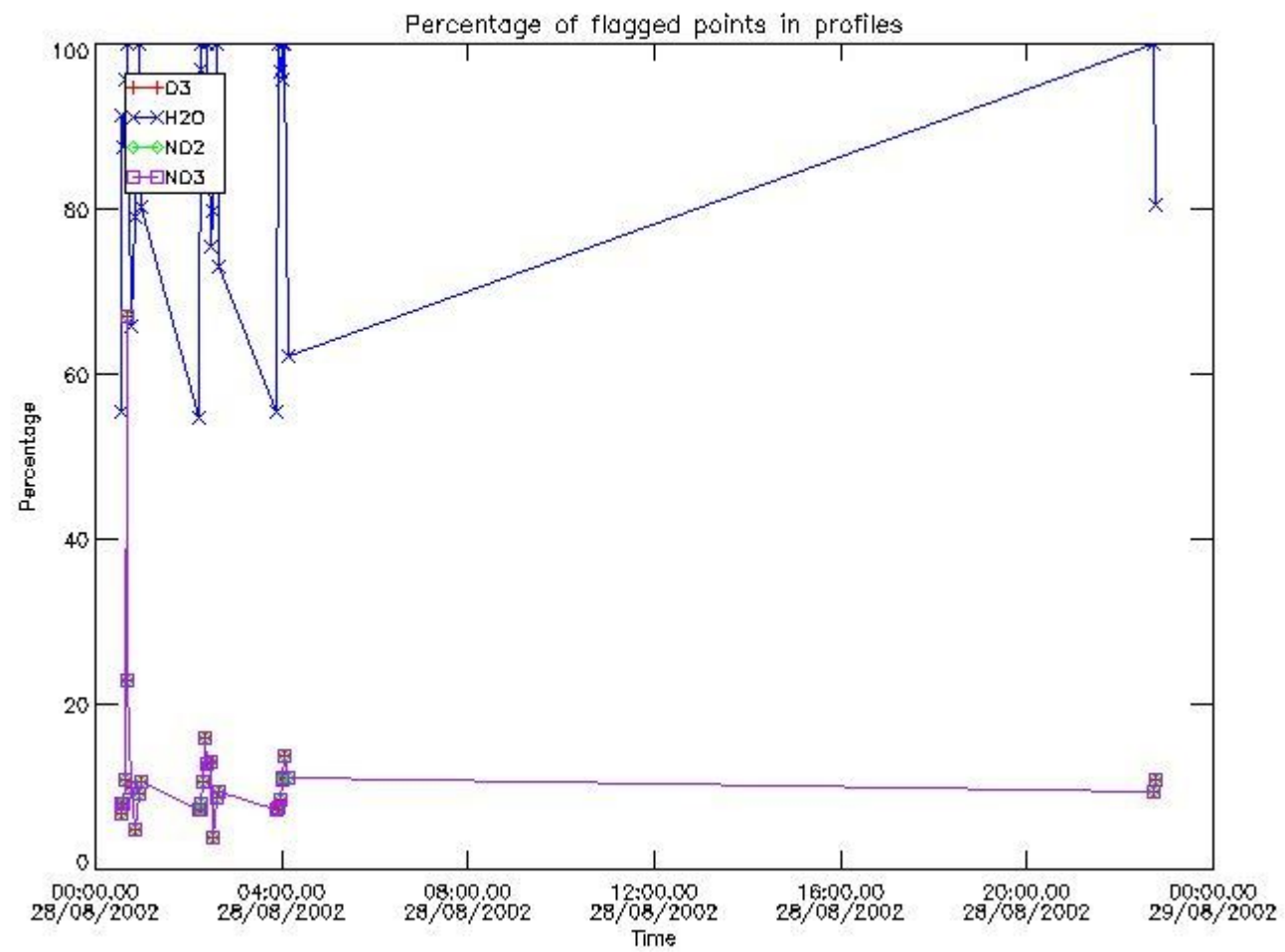
43	GOM_NL__2PRFIN20020828_021040_00000502009_00017_02576_2540.N1	28-AUG-2002 02:10:40	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	2576	No
44	GOM_NL__2PRFIN20020828_021247_00000702009_00017_02576_2541.N1	28-AUG-2002 02:12:47	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2576	No
45	GOM_NL__2PRFIN20020828_021441_00000702009_00017_02576_2542.N1	28-AUG-2002 02:14:41	Dark	70.000	27	24Gam Ori	1.6360	26000.	140	2576	No
46	GOM_NL__2PRFIN20020828_021636_00000642009_00017_02576_2543.N1	28-AUG-2002 02:16:36	Dark	63.500	33	50Zet Ori	1.7660	30000.	127	2576	No
47	GOM_NL__2PRFIN20020828_021911_00000482009_00017_02576_2544.N1	28-AUG-2002 02:19:11	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	2576	No
48	GOM_NL__2PRFIN20020828_022055_00000452009_00017_02576_2545.N1	28-AUG-2002 02:20:55	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	2576	No
49	GOM_NL__2PRFIN20020828_022245_00000402009_00017_02576_2546.N1	28-AUG-2002 02:22:45	Dark	40.000	70	Zet Pup	2.2460	39000.	80	2576	No
50	GOM_NL__2PRFIN20020828_022743_00000392009_00017_02576_2547.N1	28-AUG-2002 02:27:43	Dark	39.000	2	Alp Car	-0.73600	7000.0	78	2576	No
51	GOM_NL__2PRFIN20020828_023106_000001372009_00018_02577_2515.N1	28-AUG-2002 02:31:06	Dark	136.50	165	34Gam Eri	2.9500	3200.0	273	2577	No
52	GOM_NL__2PRFIN20020828_023633_00000592009_00018_02577_2516.N1	28-AUG-2002 02:36:33	Dark	58.500	157	The1Eri	2.9060	9300.0	117	2577	No
53	GOM_NL__2PRFIN20020828_023906_00000542009_00018_02577_2517.N1	28-AUG-2002 02:39:06	Dark	54.000	9	Alp Eri	0.45300	24000.	108	2577	No
54	GOM_NL__2PRFIN20020828_024351_00000442009_00018_02577_2518.N1	28-AUG-2002 02:43:51	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	2577	No
55	GOM_NL__2PRFIN20020828_024559_00000412009_00018_02577_2519.N1	28-AUG-2002 02:45:59	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	2577	No
56	GOM_NL__2PRFIN20020828_024729_00000432009_00018_02577_2520.N1	28-AUG-2002 02:47:29	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	2577	No
57	GOM_NL__2PRFIN20020828_025131_00000552009_00018_02577_2521.N1	28-AUG-2002 02:51:31	Straylight	55.000	18	24Alp PsA	1.1660	9700.0	110	2577	No
58	GOM_NL__2PRFIN20020828_025418_000001092009_00018_02577_2522.N1	28-AUG-2002 02:54:18	Bright	108.50	52	16Bet Cet	2.0370	4500.0	217	2577	No
59	GOM_NL__2PRFIN20020828_025942_00000412009_00018_02577_2523.N1	28-AUG-2002 02:59:42	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	2577	No
60	GOM_NL__2PRFIN20020828_030117_00000432009_00018_02577_2524.N1	28-AUG-2002 03:01:17	Bright	43.000	162	34Alp Aqr	2.9440	5350.0	86	2577	No
61	GOM_NL__2PRFIN20020828_030437_00000362009_00018_02577_2525.N1	28-AUG-2002 03:04:37	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	2577	No
62	GOM_NL__2PRFIN20020828_030745_00000532009_00018_02577_2526.N1	28-AUG-2002 03:07:45	Bright	52.500	90	54Alp Peg	2.4870	11000.	105	2577	No
63	GOM_NL__2PRFIN20020828_031105_00000382009_00018_02577_2527.N1	28-AUG-2002 03:11:05	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	2577	No
64	GOM_NL__2PRFIN20020828_031253_00000372009_00018_02577_2528.N1	28-AUG-2002 03:12:53	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	2577	No
65	GOM_NL__2PRFIN20020828_031417_00000392009_00018_02577_2529.N1	28-AUG-2002 03:14:17	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	2577	No
66	GOM_NL__2PRFIN20020828_031708_00000742009_00018_02577_2530.N1	28-AUG-2002 03:17:08	Bright	74.000	58	21Alp And	2.0730	11000.	148	2577	No
67	GOM_NL__2PRFIN20020828_032241_00000482009_00018_02577_2531.N1	28-AUG-2002 03:22:41	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	2577	No
68	GOM_NL__2PRFIN20020828_032453_00000492009_00018_02577_2532.N1	28-AUG-2002 03:24:53	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	2577	No
69	GOM_NL__2PRFIN20020828_032655_00000412009_00018_02577_2533.N1	28-AUG-2002 03:26:55	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	2577	No
70	GOM_NL__2PRFIN20020828_033133_000001002009_00018_02577_2534.N1	28-AUG-2002 03:31:33	Bright	99.500	73	57Gam1And	2.2600	13100.	199	2577	No
71	GOM_NL__2PRFIN20020828_033426_00000682009_00018_02577_2535.N1	28-AUG-2002 03:34:26	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	2577	No
72	GOM_NL__2PRFIN20020828_033737_000002552009_00018_02577_2536.N1	28-AUG-2002 03:37:37	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	2577	No
73	GOM_NL__2PRFIN20020828_034343_00000392009_00018_02577_2537.N1	28-AUG-2002 03:43:43	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	2577	No
74	GOM_NL__2PRFIN20020828_034612_00000672009_00018_02577_2538.N1	28-AUG-2002 03:46:12	Twilight	66.500	28	12Bet Tau	1.6500	15200.	133	2577	No
75	GOM_NL__2PRFIN20020828_034910_00000522009_00018_02577_2539.N1	28-AUG-2002 03:49:10	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	2577	No
76	GOM_NL__2PRFIN20020828_035117_00000462009_00018_02577_2540.N1	28-AUG-2002 03:51:17	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	2577	No
77	GOM_NL__2PRFIN20020828_035324_00000702009_00018_02577_2541.N1	28-AUG-2002 03:53:24	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2577	No
78	GOM_NL__2PRFIN20020828_035518_00000692009_00018_02577_2542.N1	28-AUG-2002 03:55:18	Dark	68.500	27	24Gam Ori	1.6360	26000.	137	2577	No
79	GOM_NL__2PRFIN20020828_035713_00000612009_00018_02577_2543.N1	28-AUG-2002 03:57:13	Dark	60.500	33	50Zet Ori	1.7660	30000.	121	2577	No
80	GOM_NL__2PRFIN20020828_035948_00000472009_00018_02577_2544.N1	28-AUG-2002 03:59:48	Dark	46.500	47	2Bet CMa	1.9760	28000.	93	2577	No
81	GOM_NL__2PRFIN20020828_040131_00000462009_00018_02577_2545.N1	28-AUG-2002 04:01:31	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	2577	No
82	GOM_NL__2PRFIN20020828_040321_00000412009_00018_02577_2546.N1	28-AUG-2002 04:03:21	Dark	40.500	70	Zet Pup	2.2460	39000.	81	2577	No
83	GOM_NL__2PRFIN20020828_040819_00000462009_00018_02577_2547.N1	28-AUG-2002 04:08:19	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	2577	No
84	GOM_NL__2PRFIN20020828_224400_00000542009_00030_02589_2515.N1	28-AUG-2002 22:44:00	Dark	54.000	157	The1Eri	2.9060	9300.0	108	2589	No
85	GOM_NL__2PRFIN20020828_224626_00000472009_00030_02589_2516.N1	28-AUG-2002 22:46:26	Dark	46.500	9	Alp Eri	0.45300	24000.	93	2589	No
86	GOM_NL__2PRFIN20020828_225223_00000572009_00030_02589_2517.N1	28-AUG-2002 22:52:23	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	2589	No
87	GOM_NL__2PRFIN20020828_225846_00000512009_00030_02589_2519.N1	28-AUG-2002 22:58:46	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	2589	No
88	GOM_NL__2PRFIN20020828_230132_00000962009_00030_02589_2520.N1	28-AUG-2002 23:01:32	Bright	96.000	52	16Bet Cet	2.0370	4500.0	192	2589	No
89	GOM_NL__2PRFIN20020828_230655_00000402009_00030_02589_2521.N1	28-AUG-2002 23:06:55	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2589	No
90	GOM_NL__2PRFIN20020828_230827_00000452009_00030_02589_2522.N1	28-AUG-2002 23:08:27	Bright	44.500	162	34Alp Aqr	2.9440	5350.0	89	2589	No
91	GOM_NL__2PRFIN20020828_231151_00000412009_00030_02589_2523.N1	28-AUG-2002 23:11:51	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	2589	No
92	GOM_NL__2PRFIN20020828_231447_00000542009_00030_02589_2524.N1	28-AUG-2002 23:14:47	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	2589	No
93	GOM_NL__2PRFIN20020828_231816_00000392009_00030_02589_2525.N1	28-AUG-2002 23:18:16	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	2589	No
94	GOM_NL__2PRFIN20020828_232006_00000382009_00030_02589_2526.N1	28-AUG-2002 23:20:06	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	2589	No
95	GOM_NL__2PRFIN20020828_232128_00000362009_00030_02589_2527.N1	28-AUG-2002 23:21:28	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	2589	No
96	GOM_NL__2PRFIN20020828_232359_00000752009_00030_02589_2528.N1	28-AUG-2002 23:23:59	Bright	74.500	58	21Alp And	2.0730	11000.	149	2589	No
97	GOM_NL__2PRFIN20020828_232631_00000402009_00030_02589_2529.N1	28-AUG-2002 23:26:31	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	2589	No
98	GOM_NL__2PRFIN20020828_232944_00000432009_00030_02589_2530.N1	28-AUG-2002 23:29:44	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	2589	No
99	GOM_NL__2PRFIN20020828_233153_00000512009_00030_02589_2531.N1	28-AUG-2002 23:31:53	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	2589	No
100	GOM_NL__2PRFIN20020828_233406_00000382009_00030_02589_2532.N1	28-AUG-2002 23:34:06	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	2589	No
101	GOM_NL__2PRFIN20020828_233822_00000992009_00030_02589_2533.N1	28-AUG-2002 23:38:22	Bright	99.000	73	57Gam1And	2.2600	13100.	198	2589	No

102	GOM_NL__2PRFIN20020828_234128_000000652009_00030_02589_2534.N1	28-AUG-2002 23:41:28	Bright	64.500	35	33Alp Per	1.7950	6250.0	129	2589	No
103	GOM_NL__2PRFIN20020828_234449_000000992009_00030_02589_2535.N1	28-AUG-2002 23:44:49	Bright	98.500	79	26Bet Per	2.3100	13100.	197	2589	No
104	GOM_NL__2PRFIN20020828_234733_000000742009_00030_02589_2536.N1	28-AUG-2002 23:47:33	Bright	73.500	149	45Eps Per	2.8880	30000.	147	2589	No
105	GOM_NL__2PRFIN20020828_235056_000000402009_00030_02589_2537.N1	28-AUG-2002 23:50:56	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	2589	No
106	GOM_NL__2PRFIN20020828_235325_000000652009_00030_02589_2538.N1	28-AUG-2002 23:53:25	Twilight	64.500	28	12Bet Tau	1.6500	15200.	129	2589	No
107	GOM_NL__2PRFIN20020828_235625_000000502009_00030_02589_2539.N1	28-AUG-2002 23:56:25	Twilight	50.000	44	24Gam Gem	1.9280	11000.	100	2589	No
108	GOM_NL__2PRFIN20020828_235831_000000522009_00030_02589_2540.N1	28-AUG-2002 23:58:31	Twilight	52.000	8	10Alp CMI	0.40000	6500.0	104	2589	No

3. Quality information per product

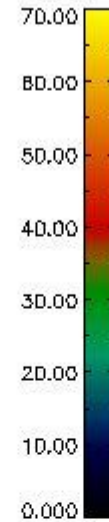
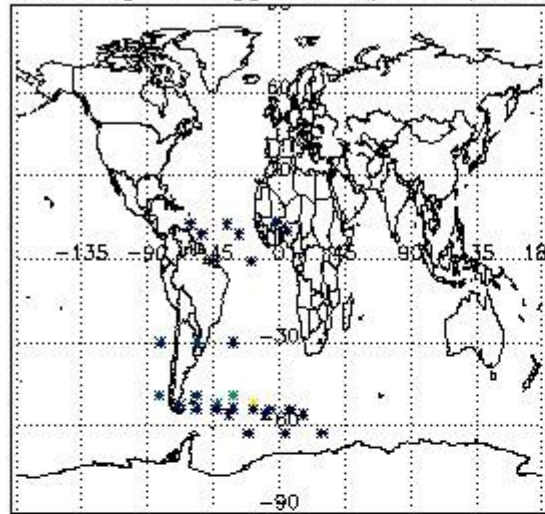
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

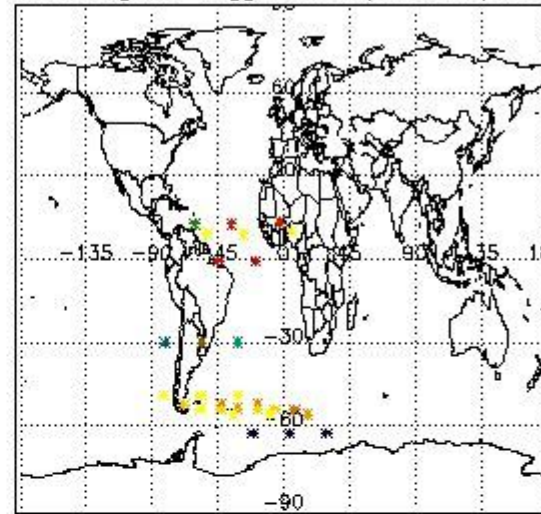


3.2 Plot quality information per product (world map)

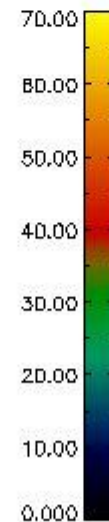
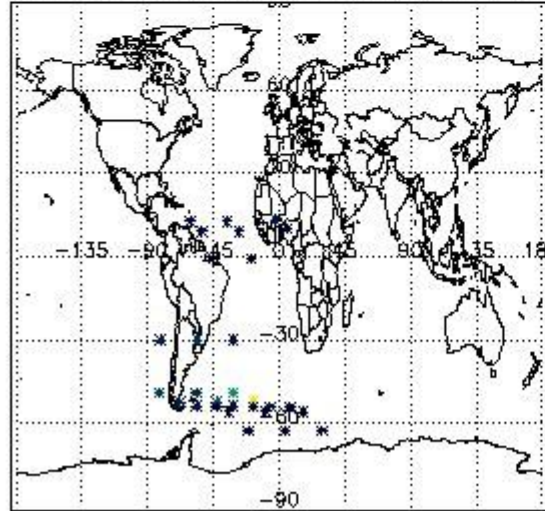
Percentage of flagged data per O3 profile



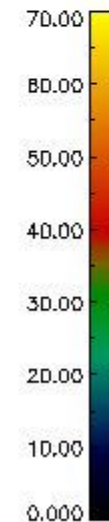
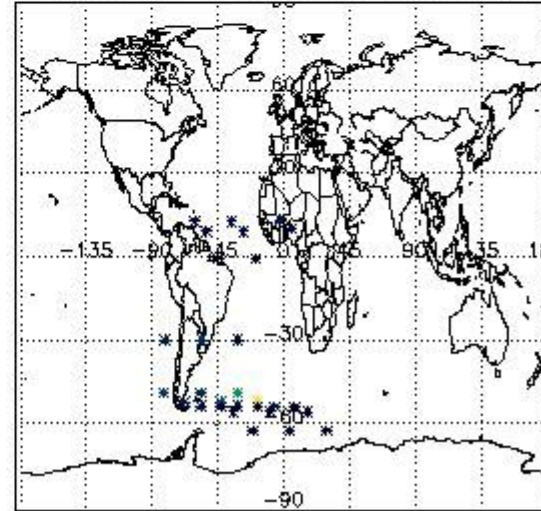
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

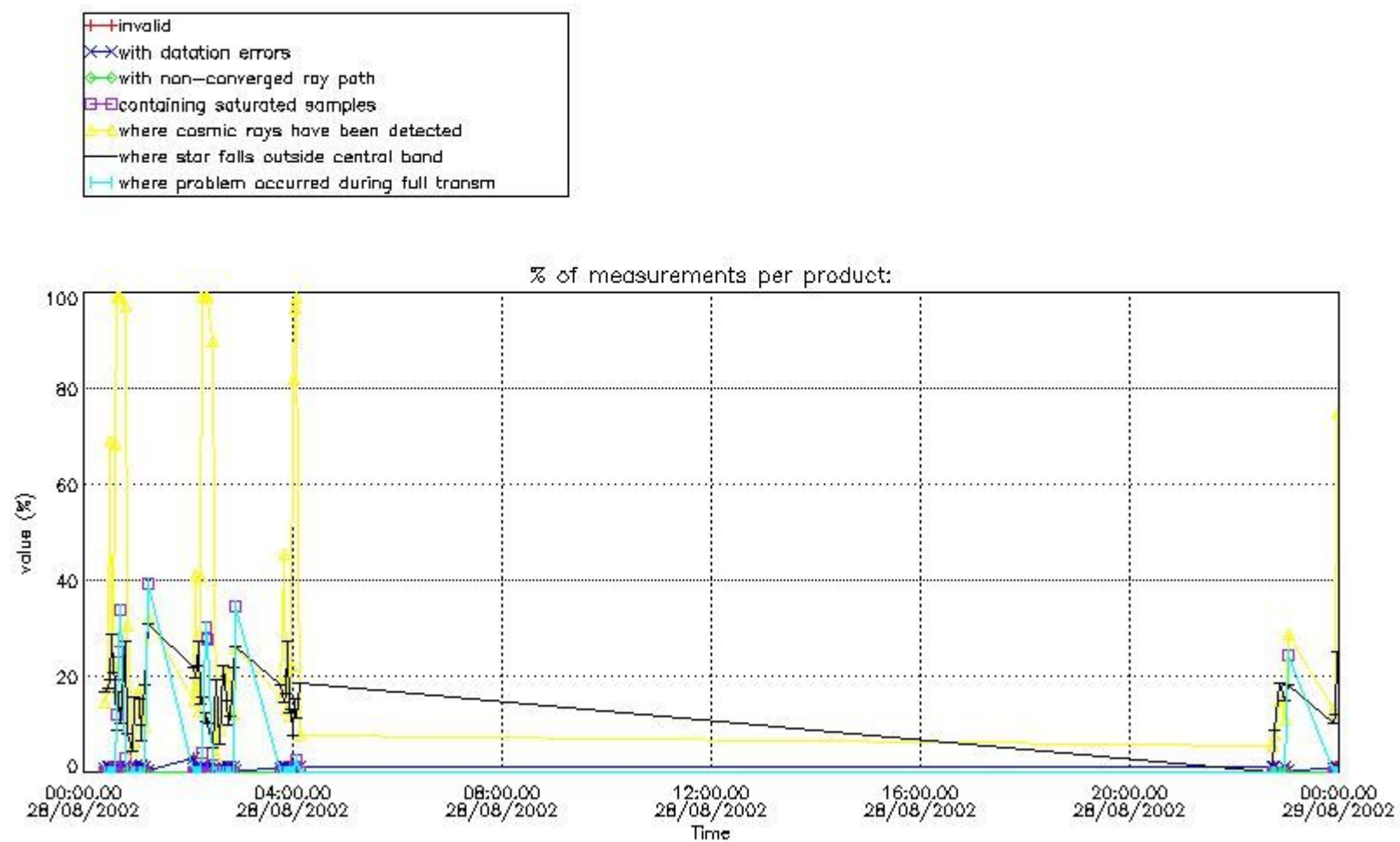


4. Level 1 quality information per product

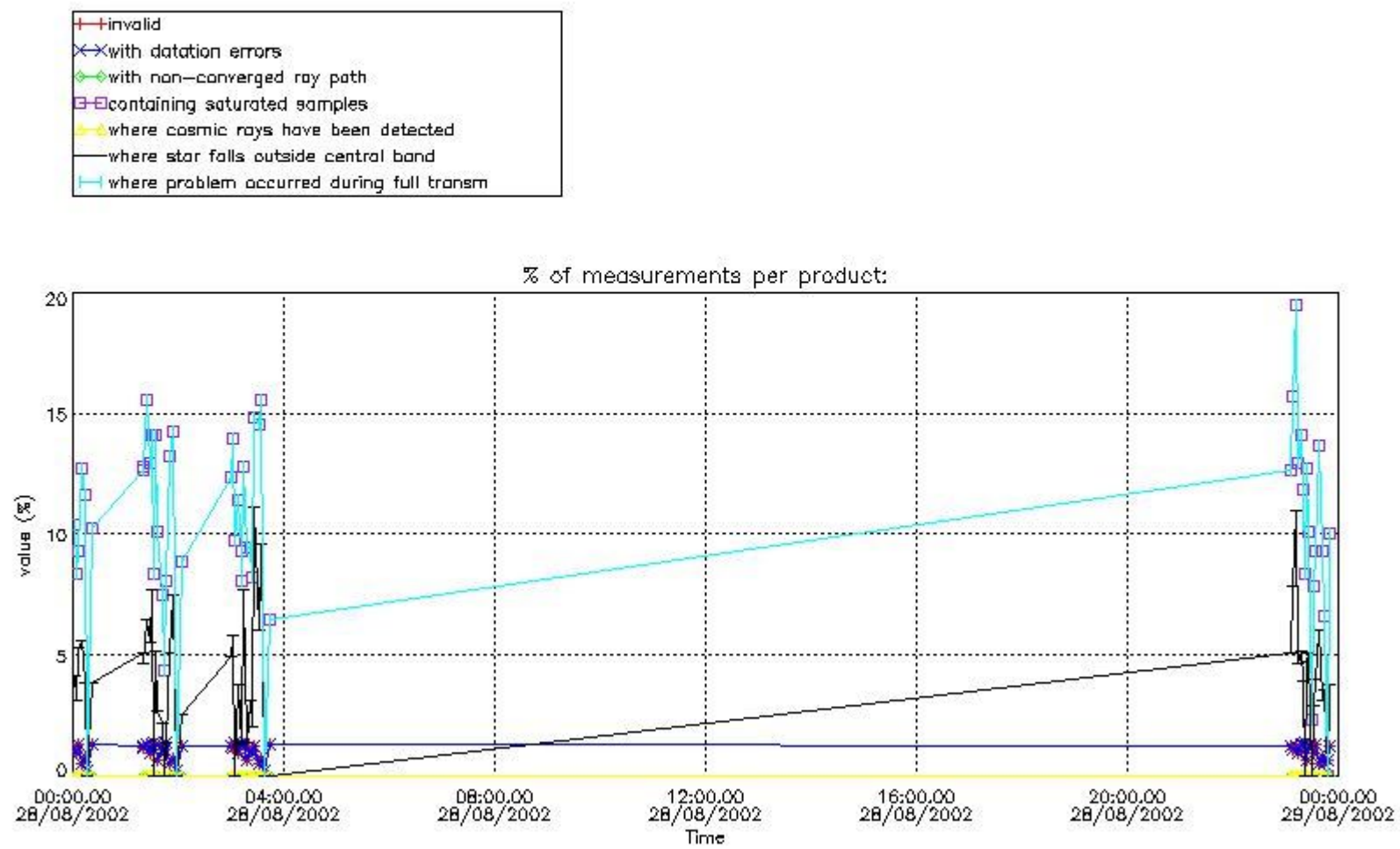
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



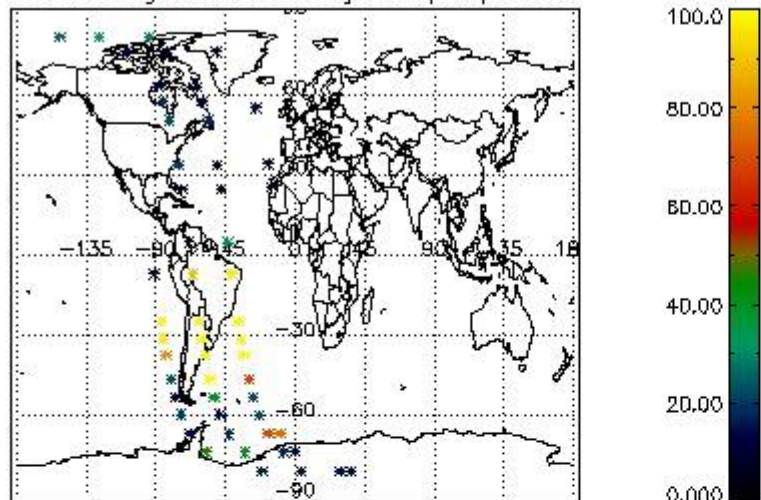
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



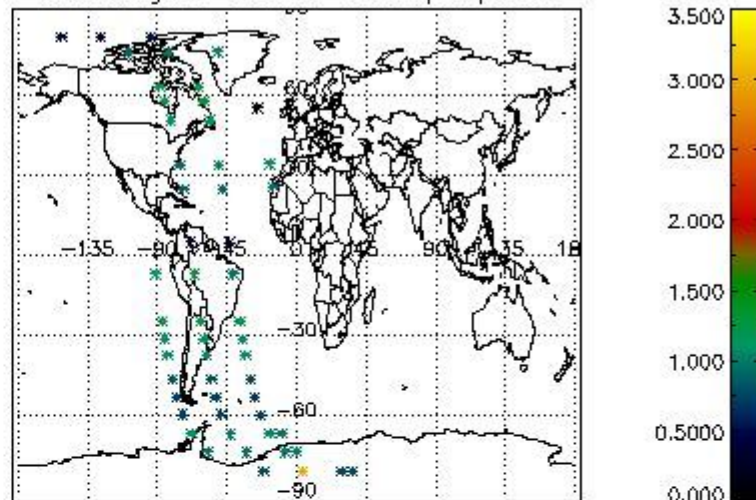
4.2 Plot quality information per product coming from level 1b processing (world map)

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

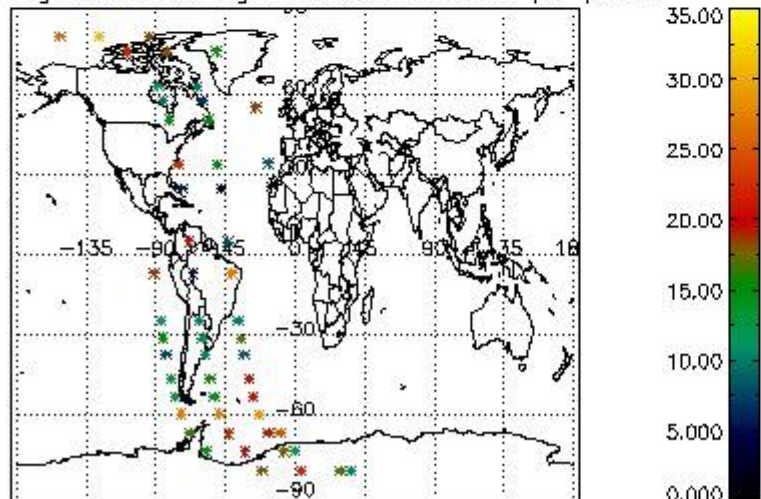
Percentage of cosmic ray hits per profile



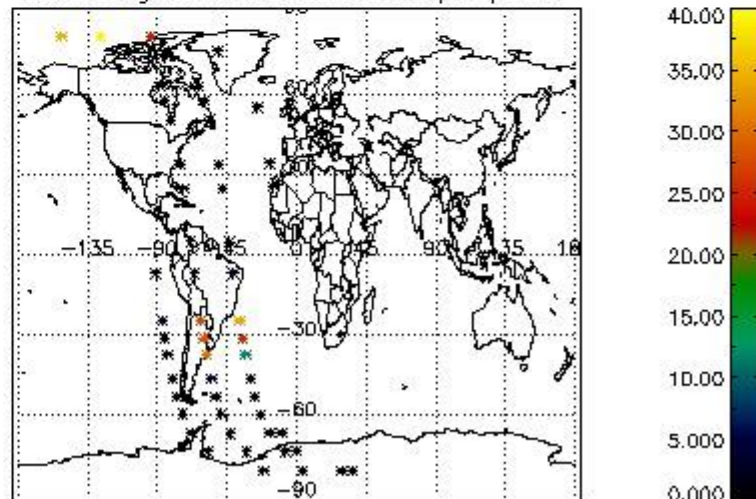
Percentage of datation errors per profile



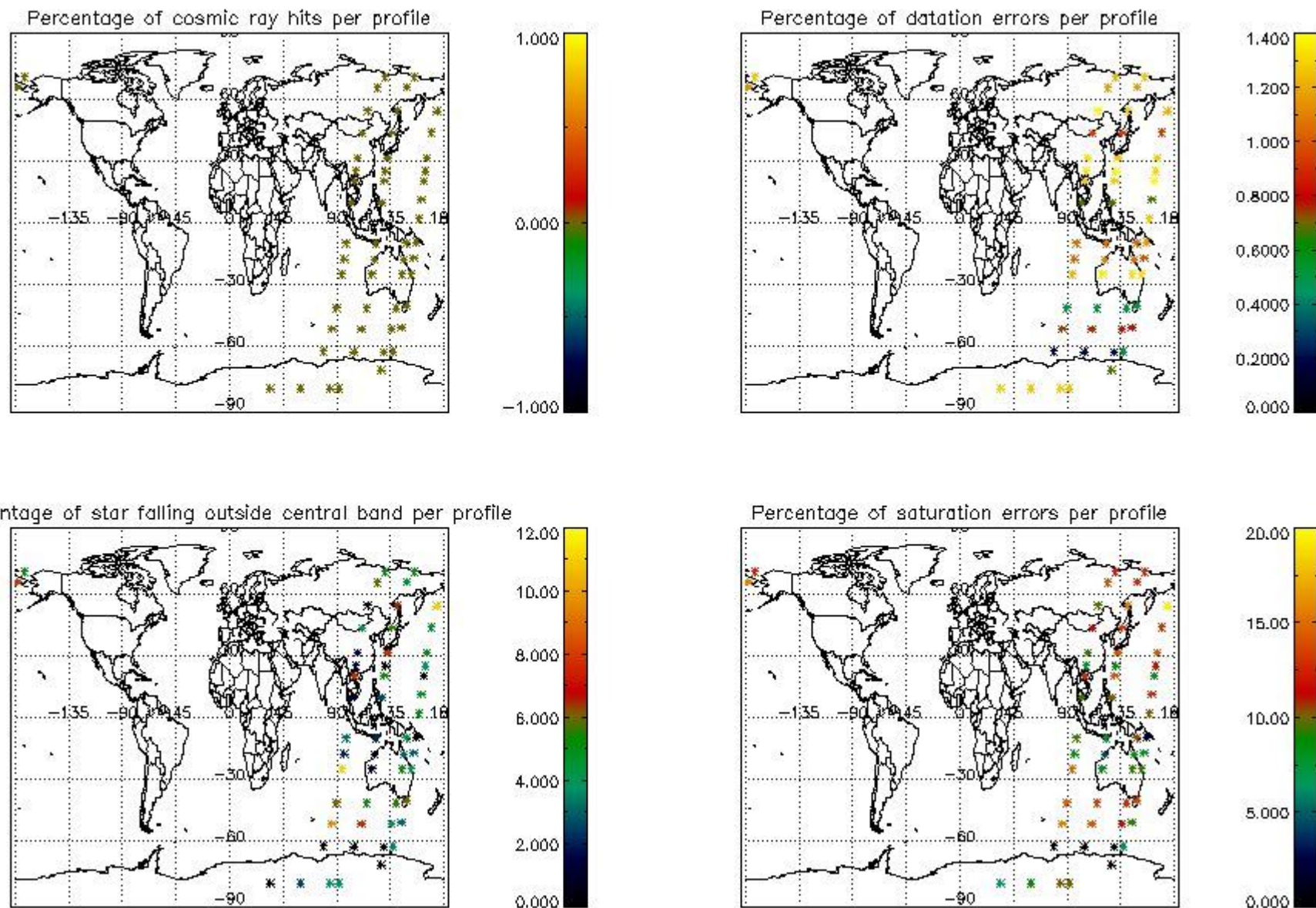
Percentage of star falling outside central band per profile



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

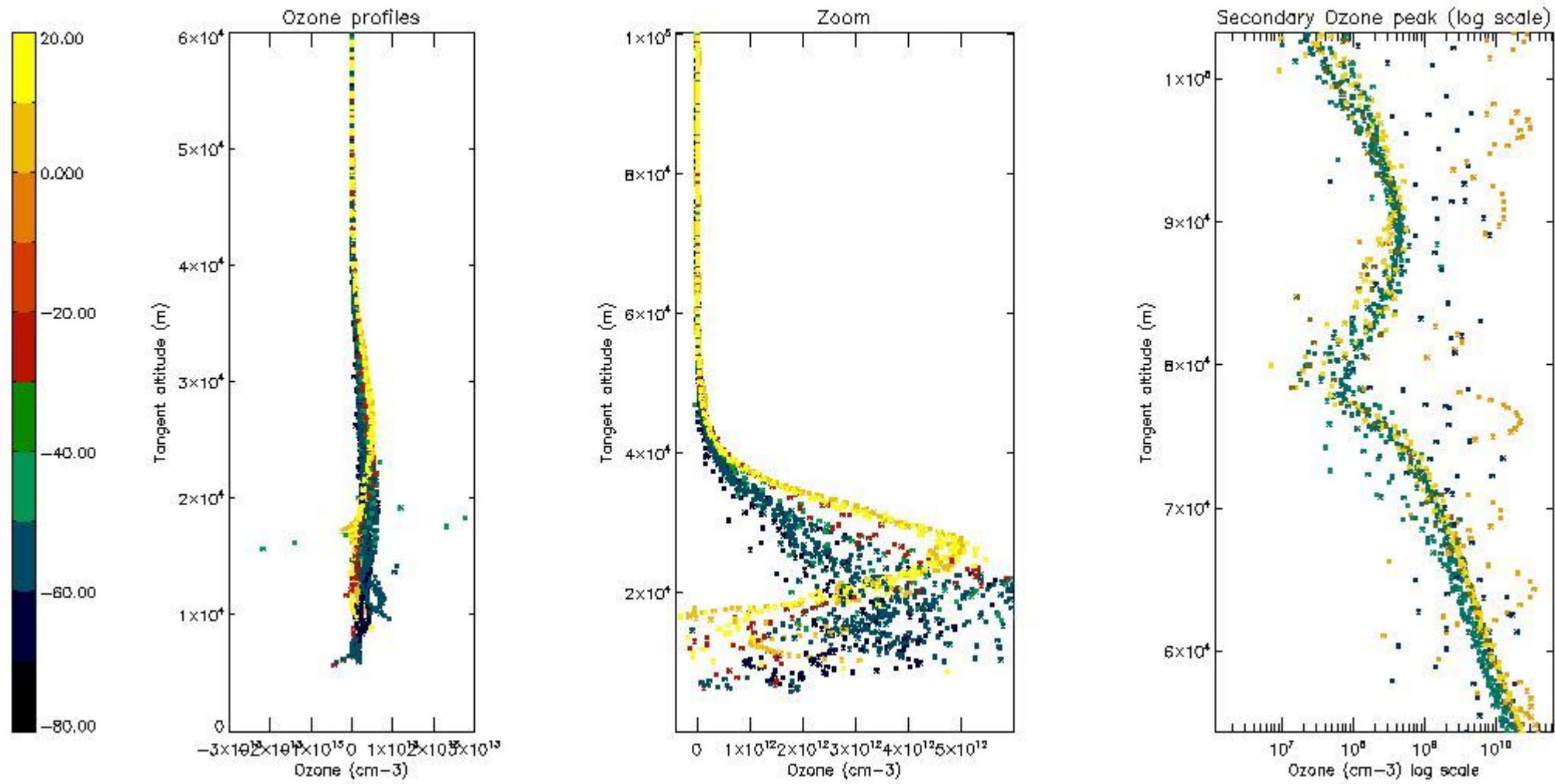
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	16

STD < 10	13
STD < 5	10

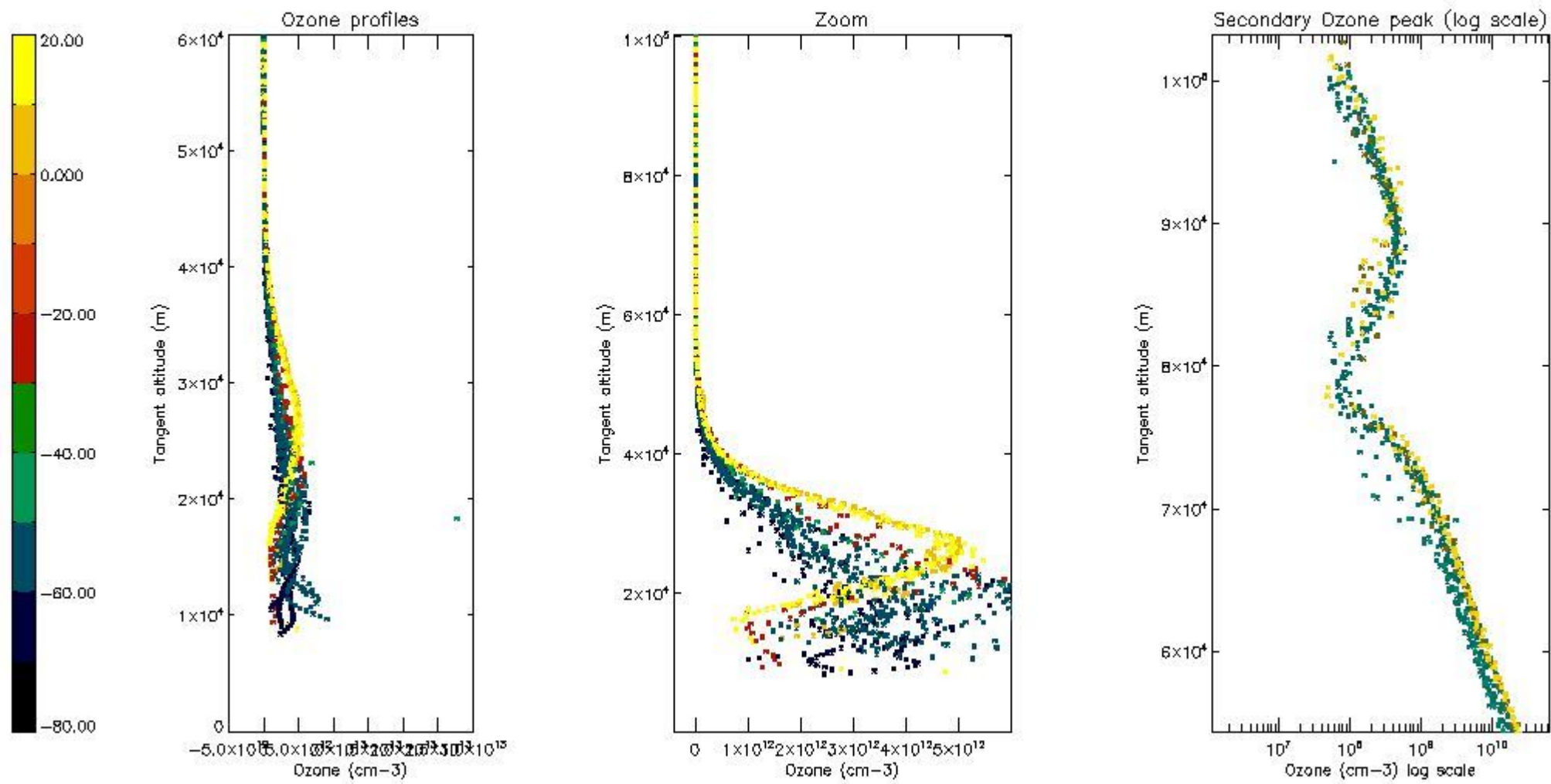
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



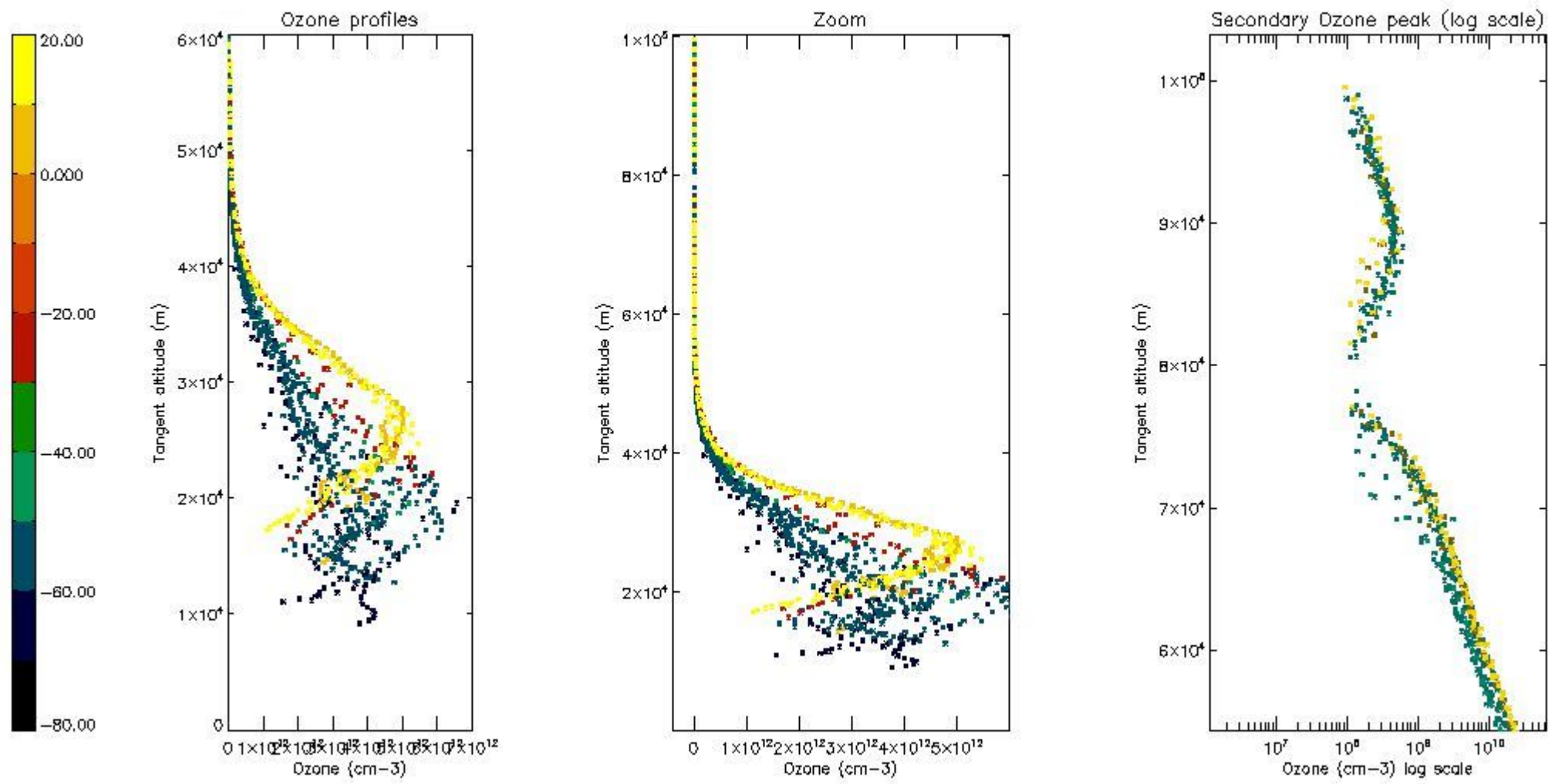
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



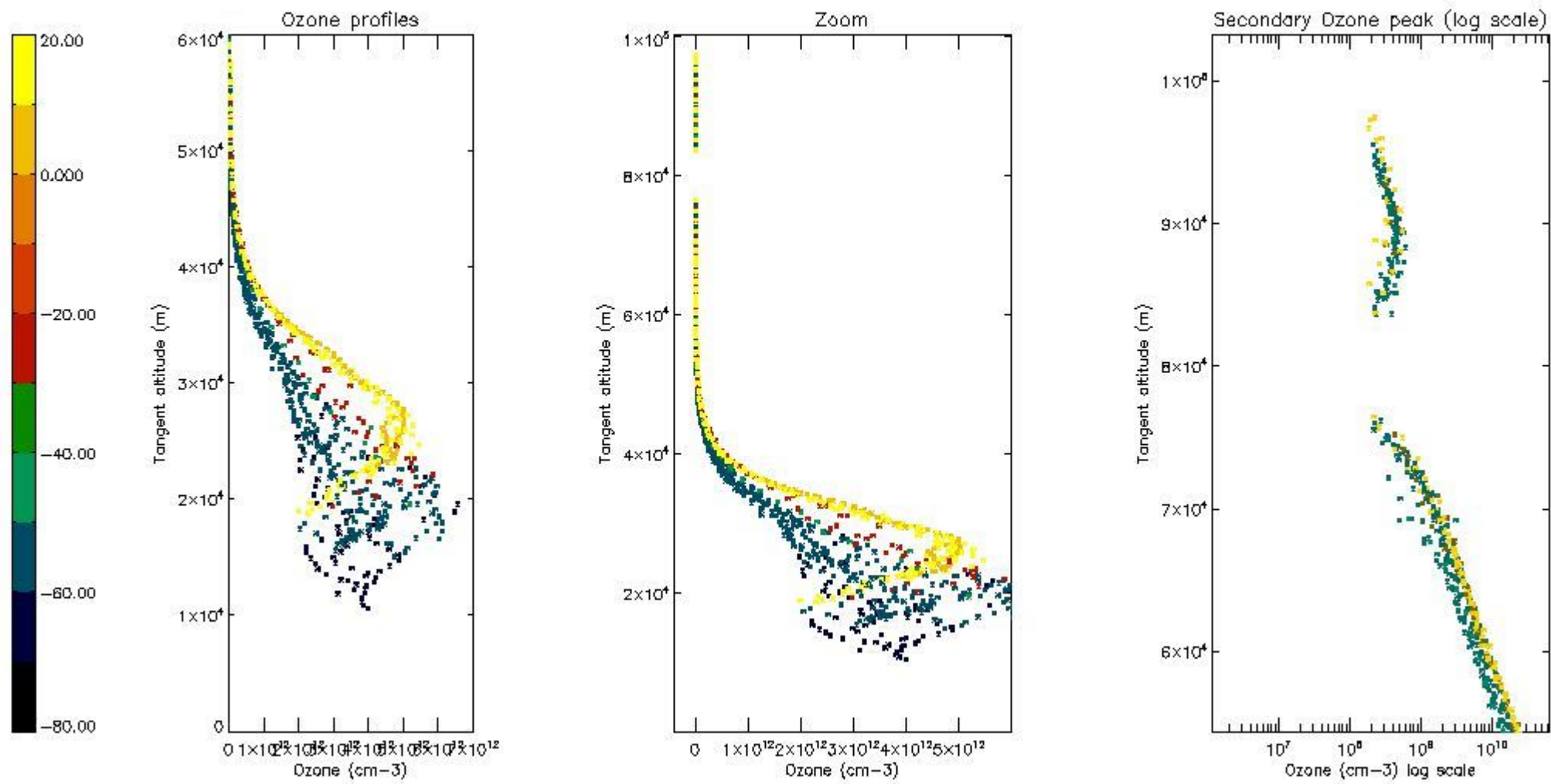
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



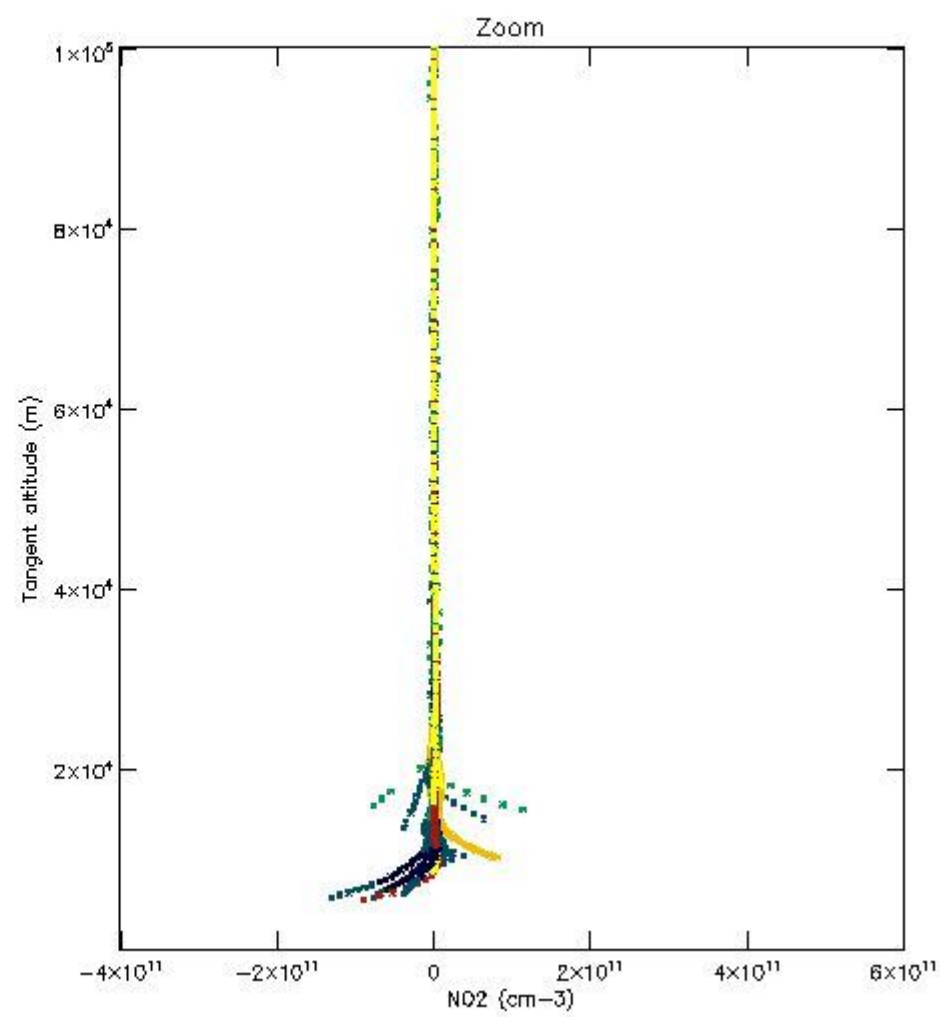
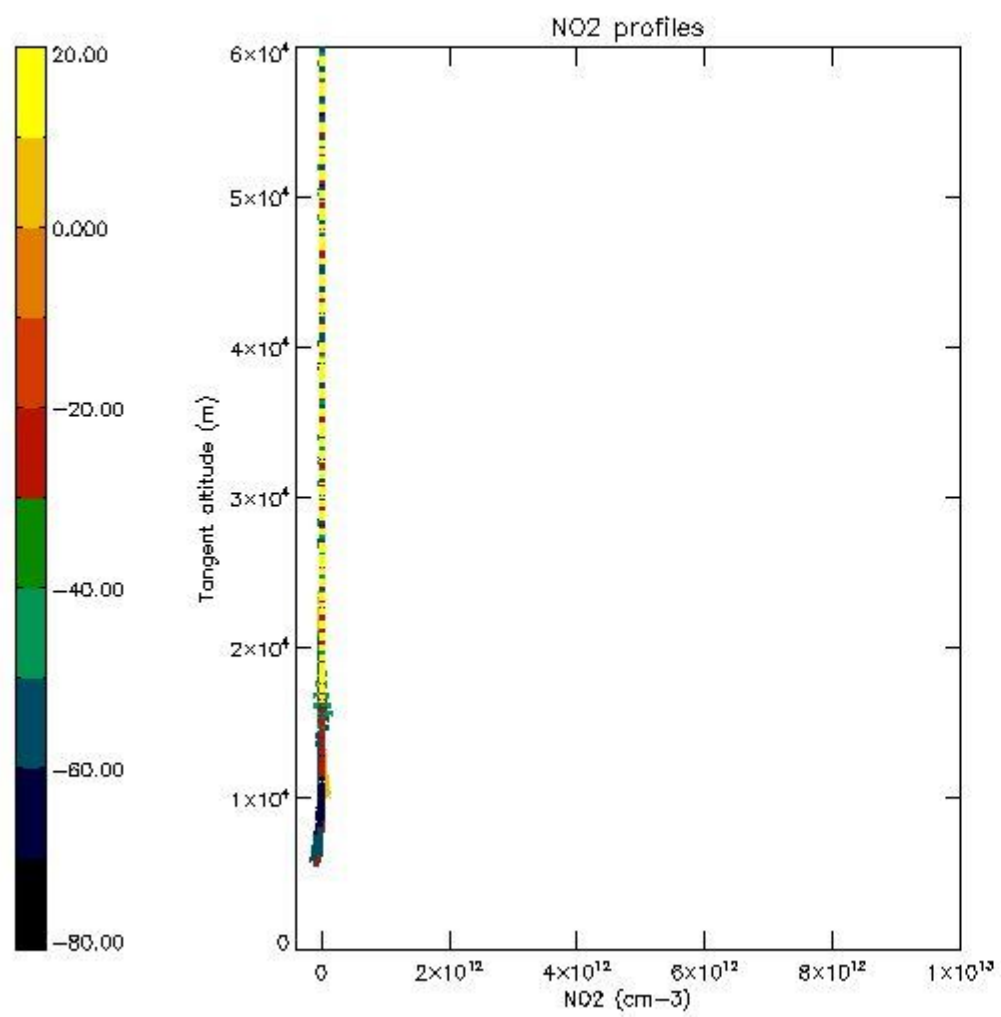
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



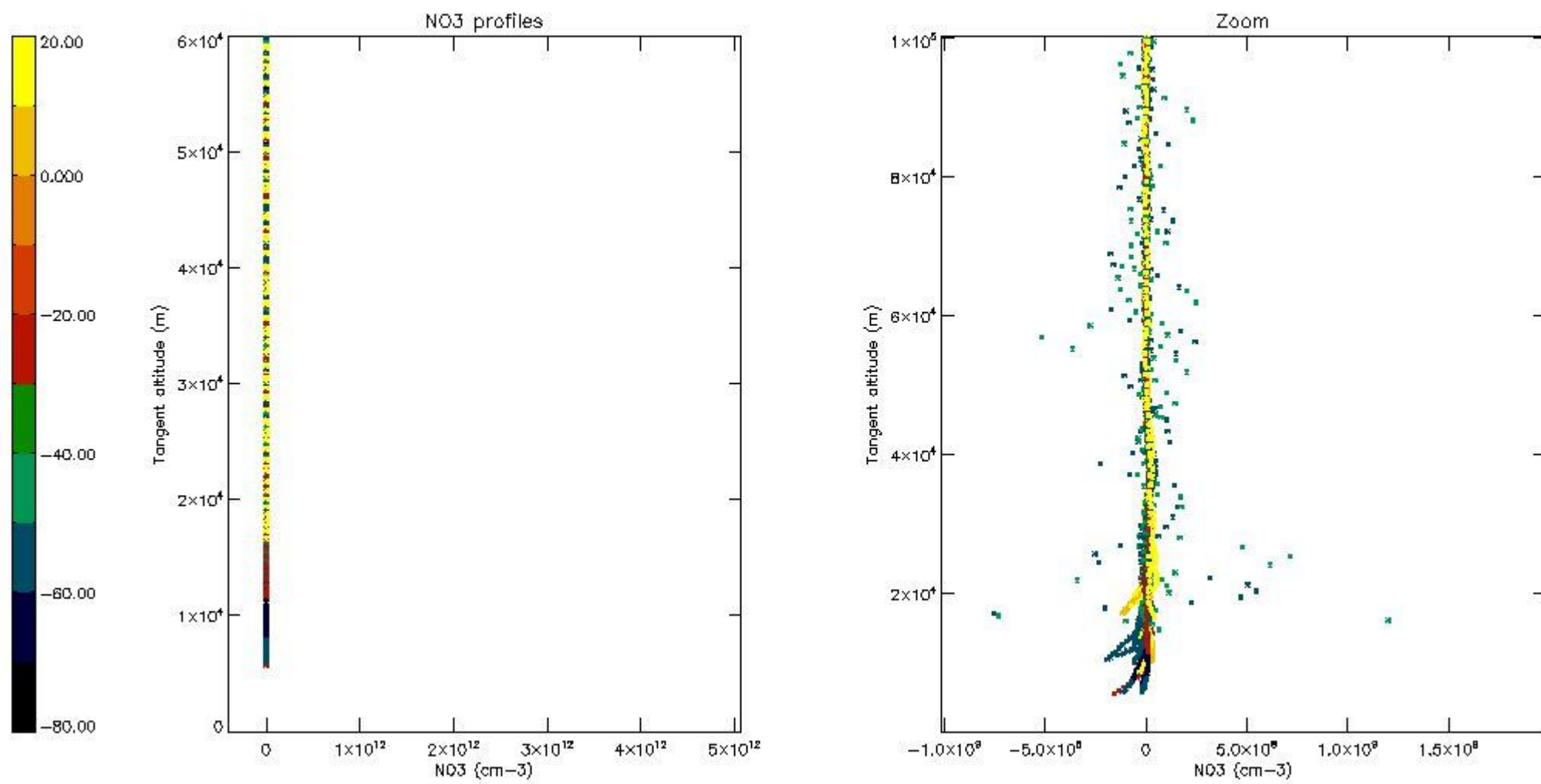
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



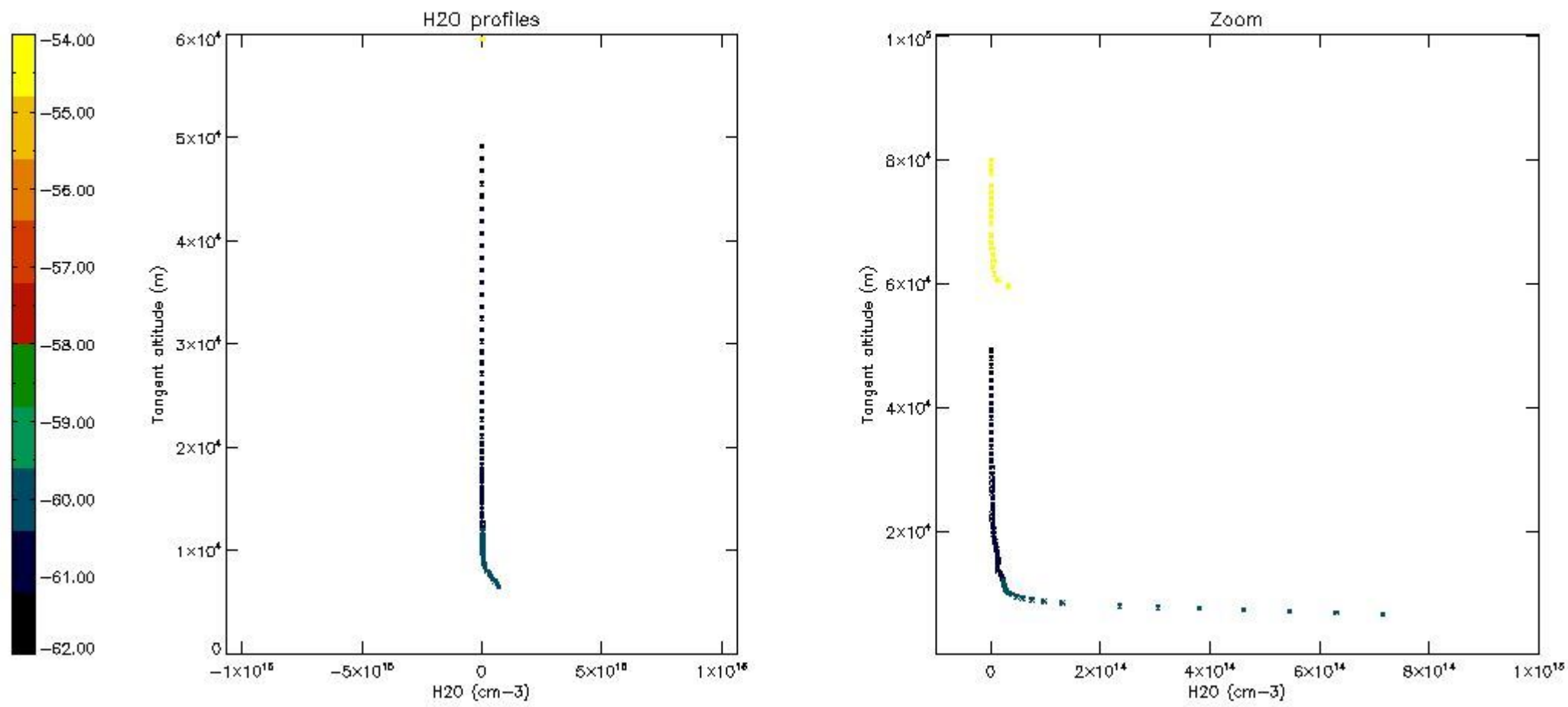
5.7 Plot NO3 profiles for all STD (dark without errors)

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	28-AUG-2002 00:01:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-AUG-2002 00:01:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-AUG-2002 00:01:30

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	17APR2013 17:55:41
Data source version	GOMOS/6.01
Start time of products	28-08-2002 (28AUG2002 00:00:00)
Stop time of products	29-08-2002 (29AUG2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	108
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__2PRFIN20020828_000130_000000482009_00016_02575_2529.N1	28-AUG-2002 00:01:30	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	2575	No
2	GOM_NL__2PRFIN20020828_000343_000000482009_00016_02575_2530.N1	28-AUG-2002 00:03:43	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	2575	No
3	GOM_NL__2PRFIN20020828_000544_000000382009_00016_02575_2531.N1	28-AUG-2002 00:05:44	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	2575	No
4	GOM_NL__2PRFIN20020828_001024_000000982009_00016_02575_2532.N1	28-AUG-2002 00:10:24	Bright	98.000	73	57Gam1And	2.2600	13100.	196	2575	No
5	GOM_NL__2PRFIN20020828_001316_000000652009_00016_02575_2533.N1	28-AUG-2002 00:13:16	Bright	64.500	35	33Alp Per	1.7950	6250.0	129	2575	No
6	GOM_NL__2PRFIN20020828_001631_000002552009_00016_02575_2534.N1	28-AUG-2002 00:16:31	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	2575	No
7	GOM_NL__2PRFIN20020828_002231_000000392009_00016_02575_2535.N1	28-AUG-2002 00:22:31	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	2575	No
8	GOM_NL__2PRFIN20020828_002459_000000662009_00016_02575_2536.N1	28-AUG-2002 00:24:59	Twilight	65.500	28	12Bet Tau	1.6500	15200.	131	2575	No
9	GOM_NL__2PRFIN20020828_002758_000000522009_00016_02575_2537.N1	28-AUG-2002 00:27:58	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	2575	No
10	GOM_NL__2PRFIN20020828_003005_000000472009_00016_02575_2538.N1	28-AUG-2002 00:30:05	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	2575	No
11	GOM_NL__2PRFIN20020828_003211_000000702009_00016_02575_2539.N1	28-AUG-2002 00:32:11	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2575	No
12	GOM_NL__2PRFIN20020828_003404_000000752009_00016_02575_2540.N1	28-AUG-2002 00:34:04	Dark	74.500	27	24Gam Ori	1.6360	26000.	149	2575	No
13	GOM_NL__2PRFIN20020828_003559_000000652009_00016_02575_2541.N1	28-AUG-2002 00:35:59	Dark	64.500	33	50Zet Ori	1.7660	30000.	129	2575	No
14	GOM_NL__2PRFIN20020828_003835_000000472009_00016_02575_2542.N1	28-AUG-2002 00:38:35	Dark	46.500	47	2Bet CMa	1.9760	28000.	93	2575	No
15	GOM_NL__2PRFIN20020828_004018_000000482009_00016_02575_2543.N1	28-AUG-2002 00:40:18	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	2575	No
16	GOM_NL__2PRFIN20020828_004209_000000402009_00016_02575_2544.N1	28-AUG-2002 00:42:09	Dark	40.000	70	Zet Pup	2.2460	39000.	80	2575	No
17	GOM_NL__2PRFIN20020828_004707_000000522009_00016_02575_2545.N1	28-AUG-2002 00:47:07	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	2575	No
18	GOM_NL__2PRFIN20020828_005027_000001192009_00017_02576_2515.N1	28-AUG-2002 00:50:27	Dark	119.00	165	34Gam Eri	2.9500	3200.0	238	2576	No
19	GOM_NL__2PRFIN20020828_005557_000000562009_00017_02576_2516.N1	28-AUG-2002 00:55:57	Dark	56.000	157	The1Eri	2.9060	9300.0	112	2576	No
20	GOM_NL__2PRFIN20020828_005831_000000492009_00017_02576_2517.N1	28-AUG-2002 00:58:31	Dark	48.500	9	Alp Eri	0.45300	24000.	97	2576	No
21	GOM_NL__2PRFIN20020828_010315_000000432009_00017_02576_2518.N1	28-AUG-2002 01:03:15	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	2576	No
22	GOM_NL__2PRFIN20020828_010523_000000392009_00017_02576_2519.N1	28-AUG-2002 01:05:23	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	2576	No
23	GOM_NL__2PRFIN20020828_010653_000000422009_00017_02576_2520.N1	28-AUG-2002 01:06:53	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	2576	No
24	GOM_NL__2PRFIN20020828_011055_000000532009_00017_02576_2521.N1	28-AUG-2002 01:10:55	Straylight	52.500	18	24Alp PsA	1.1660	9700.0	105	2576	No
25	GOM_NL__2PRFIN20020828_011342_000001162009_00017_02576_2522.N1	28-AUG-2002 01:13:42	Bright	116.00	52	16Bet Cet	2.0370	4500.0	232	2576	No
26	GOM_NL__2PRFIN20020828_011906_000000402009_00017_02576_2523.N1	28-AUG-2002 01:19:06	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2576	No
27	GOM_NL__2PRFIN20020828_012041_000000432009_00017_02576_2524.N1	28-AUG-2002 01:20:41	Bright	43.000	162	34Alp Aqr	2.9440	5350.0	86	2576	No
28	GOM_NL__2PRFIN20020828_012400_000000392009_00017_02576_2525.N1	28-AUG-2002 01:24:00	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	2576	No
29	GOM_NL__2PRFIN20020828_012710_000000542009_00017_02576_2526.N1	28-AUG-2002 01:27:10	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	2576	No
30	GOM_NL__2PRFIN20020828_013030_000000392009_00017_02576_2527.N1	28-AUG-2002 01:30:30	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	2576	No
31	GOM_NL__2PRFIN20020828_013218_000000362009_00017_02576_2528.N1	28-AUG-2002 01:32:18	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	2576	No
32	GOM_NL__2PRFIN20020828_013341_000000392009_00017_02576_2529.N1	28-AUG-2002 01:33:41	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	2576	No
33	GOM_NL__2PRFIN20020828_013634_000000742009_00017_02576_2530.N1	28-AUG-2002 01:36:34	Bright	74.000	58	21Alp And	2.0730	11000.	148	2576	No
34	GOM_NL__2PRFIN20020828_014206_000000472009_00017_02576_2531.N1	28-AUG-2002 01:42:06	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	2576	No
35	GOM_NL__2PRFIN20020828_014418_000000462009_00017_02576_2532.N1	28-AUG-2002 01:44:18	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	2576	No
36	GOM_NL__2PRFIN20020828_014619_000000372009_00017_02576_2533.N1	28-AUG-2002 01:46:19	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	2576	No
37	GOM_NL__2PRFIN20020828_015058_000000982009_00017_02576_2534.N1	28-AUG-2002 01:50:58	Bright	98.000	73	57Gam1And	2.2600	13100.	196	2576	No
38	GOM_NL__2PRFIN20020828_015351_000000672009_00017_02576_2535.N1	28-AUG-2002 01:53:51	Bright	66.500	35	33Alp Per	1.7950	6250.0	133	2576	No
39	GOM_NL__2PRFIN20020828_015704_000002552009_00017_02576_2536.N1	28-AUG-2002 01:57:04	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	2576	No
40	GOM_NL__2PRFIN20020828_020307_000000402009_00017_02576_2537.N1	28-AUG-2002 02:03:07	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	2576	No
41	GOM_NL__2PRFIN20020828_020535_000000672009_00017_02576_2538.N1	28-AUG-2002 02:05:35	Twilight	66.500	28	12Bet Tau	1.6500	15200.	133	2576	No
42	GOM_NL__2PRFIN20020828_020833_000000542009_00017_02576_2539.N1	28-AUG-2002 02:08:33	Twilight	53.500	44	24Gam Gem	1.9280	11000.	107	2576	No

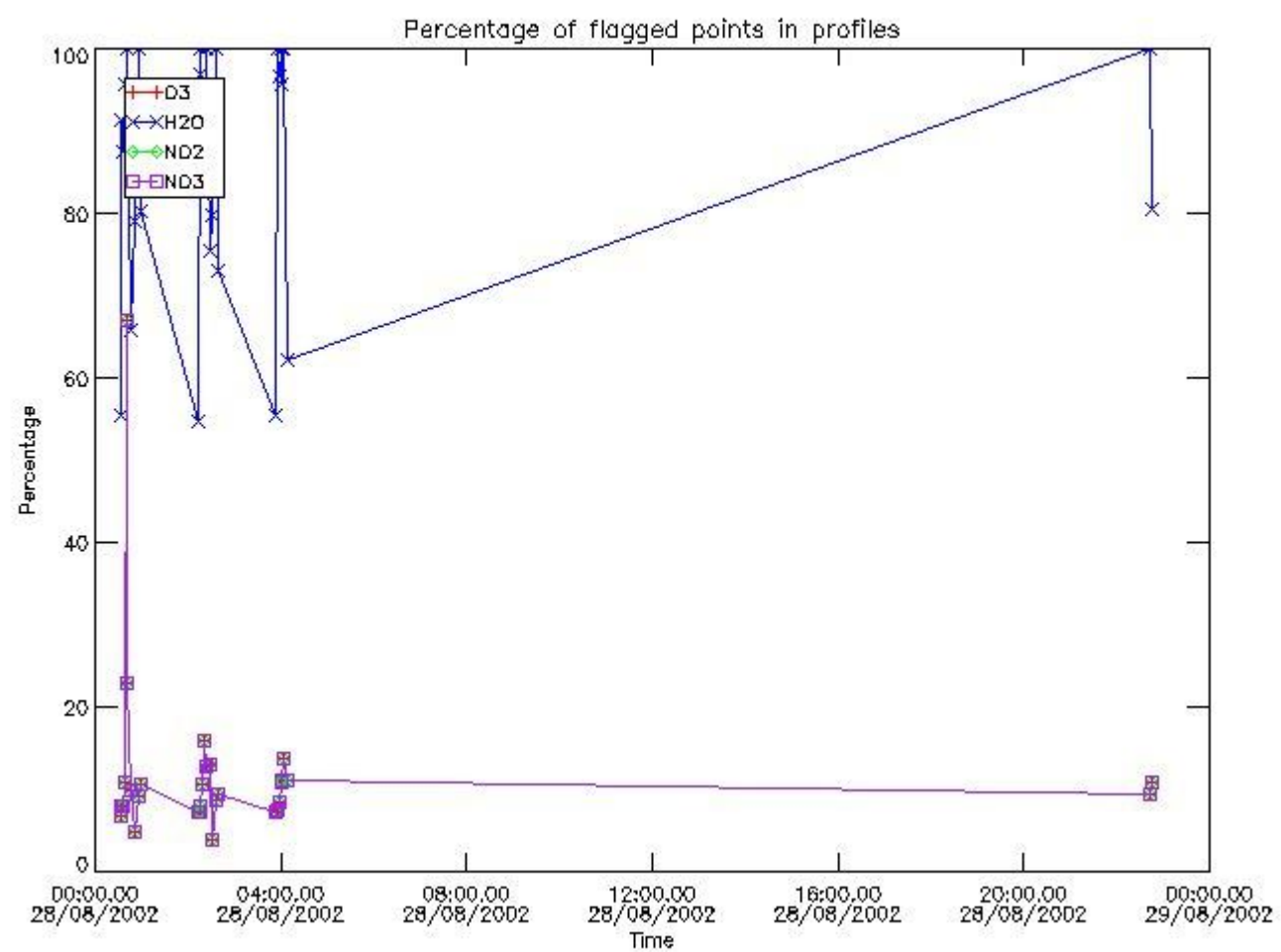
43	GOM_NL__2PRFIN20020828_021040_000000502009_00017_02576_2540.N1	28-AUG-2002 02: 10: 40	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	2576	No
44	GOM_NL__2PRFIN20020828_021247_000000702009_00017_02576_2541.N1	28-AUG-2002 02: 12: 47	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2576	No
45	GOM_NL__2PRFIN20020828_021441_000000702009_00017_02576_2542.N1	28-AUG-2002 02: 14: 41	Dark	70.000	27	24Gam Ori	1.6360	26000.	140	2576	No
46	GOM_NL__2PRFIN20020828_021636_000000642009_00017_02576_2543.N1	28-AUG-2002 02: 16: 36	Dark	63.500	33	50Zet Ori	1.7660	30000.	127	2576	No
47	GOM_NL__2PRFIN20020828_021911_000000482009_00017_02576_2544.N1	28-AUG-2002 02: 19: 11	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	2576	No
48	GOM_NL__2PRFIN20020828_022055_000000452009_00017_02576_2545.N1	28-AUG-2002 02: 20: 55	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	2576	No
49	GOM_NL__2PRFIN20020828_022245_000000402009_00017_02576_2546.N1	28-AUG-2002 02: 22: 45	Dark	40.000	70	Zet Pup	2.2460	39000.	80	2576	No
50	GOM_NL__2PRFIN20020828_022743_000000392009_00017_02576_2547.N1	28-AUG-2002 02: 27: 43	Dark	39.000	2	Alp Car	-0.73600	7000.0	78	2576	No
51	GOM_NL__2PRFIN20020828_023106_000001372009_00018_02577_2515.N1	28-AUG-2002 02: 31: 06	Dark	136.50	165	34Gam Eri	2.9500	3200.0	273	2577	No
52	GOM_NL__2PRFIN20020828_023633_000000592009_00018_02577_2516.N1	28-AUG-2002 02: 36: 33	Dark	58.500	157	The1Eri	2.9060	9300.0	117	2577	No
53	GOM_NL__2PRFIN20020828_023906_000000542009_00018_02577_2517.N1	28-AUG-2002 02: 39: 06	Dark	54.000	9	Alp Eri	0.45300	24000.	108	2577	No
54	GOM_NL__2PRFIN20020828_024351_000000442009_00018_02577_2518.N1	28-AUG-2002 02: 43: 51	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	2577	No
55	GOM_NL__2PRFIN20020828_024559_000000412009_00018_02577_2519.N1	28-AUG-2002 02: 45: 59	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	2577	No
56	GOM_NL__2PRFIN20020828_024729_000000432009_00018_02577_2520.N1	28-AUG-2002 02: 47: 29	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	2577	No
57	GOM_NL__2PRFIN20020828_025131_000000552009_00018_02577_2521.N1	28-AUG-2002 02: 51: 31	Straylight	55.000	18	24Alp PsA	1.1660	9700.0	110	2577	No
58	GOM_NL__2PRFIN20020828_025418_000001092009_00018_02577_2522.N1	28-AUG-2002 02: 54: 18	Bright	108.50	52	16Bet Cet	2.0370	4500.0	217	2577	No
59	GOM_NL__2PRFIN20020828_025942_000000412009_00018_02577_2523.N1	28-AUG-2002 02: 59: 42	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	2577	No
60	GOM_NL__2PRFIN20020828_030117_000000432009_00018_02577_2524.N1	28-AUG-2002 03: 01: 17	Bright	43.000	162	34Alp Aqr	2.9440	5350.0	86	2577	No
61	GOM_NL__2PRFIN20020828_030437_000000362009_00018_02577_2525.N1	28-AUG-2002 03: 04: 37	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	2577	No
62	GOM_NL__2PRFIN20020828_030745_000000532009_00018_02577_2526.N1	28-AUG-2002 03: 07: 45	Bright	52.500	90	54Alp Peg	2.4870	11000.	105	2577	No
63	GOM_NL__2PRFIN20020828_031105_000000382009_00018_02577_2527.N1	28-AUG-2002 03: 11: 05	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	2577	No
64	GOM_NL__2PRFIN20020828_031253_000000372009_00018_02577_2528.N1	28-AUG-2002 03: 12: 53	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	2577	No
65	GOM_NL__2PRFIN20020828_031417_000000392009_00018_02577_2529.N1	28-AUG-2002 03: 14: 17	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	2577	No
66	GOM_NL__2PRFIN20020828_031708_000000742009_00018_02577_2530.N1	28-AUG-2002 03: 17: 08	Bright	74.000	58	21Alp And	2.0730	11000.	148	2577	No
67	GOM_NL__2PRFIN20020828_032241_000000482009_00018_02577_2531.N1	28-AUG-2002 03: 22: 41	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	2577	No
68	GOM_NL__2PRFIN20020828_032453_000000492009_00018_02577_2532.N1	28-AUG-2002 03: 24: 53	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	2577	No
69	GOM_NL__2PRFIN20020828_032655_000000412009_00018_02577_2533.N1	28-AUG-2002 03: 26: 55	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	2577	No
70	GOM_NL__2PRFIN20020828_033133_000001002009_00018_02577_2534.N1	28-AUG-2002 03: 31: 33	Bright	99.500	73	57Gam1And	2.2600	13100.	199	2577	No
71	GOM_NL__2PRFIN20020828_033426_000000682009_00018_02577_2535.N1	28-AUG-2002 03: 34: 26	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	2577	No
72	GOM_NL__2PRFIN20020828_033737_000002552009_00018_02577_2536.N1	28-AUG-2002 03: 37: 37	Twilight	255.00	173	4Bet Tri	3.0040	8900.0	510	2577	No
73	GOM_NL__2PRFIN20020828_034343_000000392009_00018_02577_2537.N1	28-AUG-2002 03: 43: 43	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	2577	No
74	GOM_NL__2PRFIN20020828_034612_000000672009_00018_02577_2538.N1	28-AUG-2002 03: 46: 12	Twilight	66.500	28	12Bet Tau	1.6500	15200.	133	2577	No
75	GOM_NL__2PRFIN20020828_034910_000000522009_00018_02577_2539.N1	28-AUG-2002 03: 49: 10	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	2577	No
76	GOM_NL__2PRFIN20020828_035117_000000462009_00018_02577_2540.N1	28-AUG-2002 03: 51: 17	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	2577	No
77	GOM_NL__2PRFIN20020828_035324_000000702009_00018_02577_2541.N1	28-AUG-2002 03: 53: 24	Dark	70.000	14	58Alp Ori	0.87000	3000.0	140	2577	No
78	GOM_NL__2PRFIN20020828_035518_000000692009_00018_02577_2542.N1	28-AUG-2002 03: 55: 18	Dark	68.500	27	24Gam Ori	1.6360	26000.	137	2577	No
79	GOM_NL__2PRFIN20020828_035713_000000612009_00018_02577_2543.N1	28-AUG-2002 03: 57: 13	Dark	60.500	33	50Zet Ori	1.7660	30000.	121	2577	No
80	GOM_NL__2PRFIN20020828_035948_000000472009_00018_02577_2544.N1	28-AUG-2002 03: 59: 48	Dark	46.500	47	2Bet CMa	1.9760	28000.	93	2577	No
81	GOM_NL__2PRFIN20020828_040131_000000462009_00018_02577_2545.N1	28-AUG-2002 04: 01: 31	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	2577	No
82	GOM_NL__2PRFIN20020828_040321_000000412009_00018_02577_2546.N1	28-AUG-2002 04: 03: 21	Dark	40.500	70	Zet Pup	2.2460	39000.	81	2577	No
83	GOM_NL__2PRFIN20020828_040819_000000462009_00018_02577_2547.N1	28-AUG-2002 04: 08: 19	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	2577	No
84	GOM_NL__2PRFIN20020828_224400_000000542009_00030_02589_2515.N1	28-AUG-2002 22: 44: 00	Dark	54.000	157	The1Eri	2.9060	9300.0	108	2589	No
85	GOM_NL__2PRFIN20020828_224626_000000472009_00030_02589_2516.N1	28-AUG-2002 22: 46: 26	Dark	46.500	9	Alp Eri	0.45300	24000.	93	2589	No
86	GOM_NL__2PRFIN20020828_225223_000000572009_00030_02589_2517.N1	28-AUG-2002 22: 52: 23	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	2589	No
87	GOM_NL__2PRFIN20020828_225846_000000512009_00030_02589_2519.N1	28-AUG-2002 22: 58: 46	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	2589	No
88	GOM_NL__2PRFIN20020828_230132_000000962009_00030_02589_2520.N1	28-AUG-2002 23: 01: 32	Bright	96.000	52	16Bet Cet	2.0370	4500.0	192	2589	No
89	GOM_NL__2PRFIN20020828_230655_000000402009_00030_02589_2521.N1	28-AUG-2002 23: 06: 55	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2589	No
90	GOM_NL__2PRFIN20020828_230827_000000452009_00030_02589_2522.N1	28-AUG-2002 23: 08: 27	Bright	44.500	162	34Alp Aqr	2.9440	5350.0	89	2589	No
91	GOM_NL__2PRFIN20020828_231151_000000412009_00030_02589_2523.N1	28-AUG-2002 23: 11: 51	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	2589	No
92	GOM_NL__2PRFIN20020828_231447_000000542009_00030_02589_2524.N1	28-AUG-2002 23: 14: 47	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	2589	No
93	GOM_NL__2PRFIN20020828_231816_000000392009_00030_02589_2525.N1	28-AUG-2002 23: 18: 16	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	2589	No
94	GOM_NL__2PRFIN20020828_232006_000000382009_00030_02589_2526.N1	28-AUG-2002 23: 20: 06	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	2589	No
95	GOM_NL__2PRFIN20020828_232128_000000362009_00030_02589_2527.N1	28-AUG-2002 23: 21: 28	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	2589	No
96	GOM_NL__2PRFIN20020828_232359_000000752009_00030_02589_2528.N1	28-AUG-2002 23: 23: 59	Bright	74.500	58	21Alp And	2.0730	11000.	149	2589	No
97	GOM_NL__2PRFIN20020828_232631_000000402009_00030_02589_2529.N1	28-AUG-2002 23: 26: 31	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	2589	No
98	GOM_NL__2PRFIN20020828_232944_000000432009_00030_02589_2530.N1	28-AUG-2002 23: 29: 44	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	2589	No
99	GOM_NL__2PRFIN20020828_233153_000000512009_00030_02589_2531.N1	28-AUG-2002 23: 31: 53	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	2589	No
100	GOM_NL__2PRFIN20020828_233406_000000382009_00030_02589_2532.N1	28-AUG-2002 23: 34: 06	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	2589	No
101	GOM_NL__2PRFIN20020828_233822_000000992009_00030_02589_2533.N1	28-AUG-2002 23: 38: 22	Bright	99.000	73	57Gam1And	2.2600	13100.	198	2589	No

102	GOM_NL__2PRFIN20020828_234128_000000652009_00030_02589_2534.N1	28-AUG-2002 23:41:28	Bright	64.500	35	33Alp Per	1.7950	6250.0	129	2589	No
103	GOM_NL__2PRFIN20020828_234449_000000992009_00030_02589_2535.N1	28-AUG-2002 23:44:49	Bright	98.500	79	26Bet Per	2.3100	13100.	197	2589	No
104	GOM_NL__2PRFIN20020828_234733_000000742009_00030_02589_2536.N1	28-AUG-2002 23:47:33	Bright	73.500	149	45Eps Per	2.8880	30000.	147	2589	No
105	GOM_NL__2PRFIN20020828_235056_000000402009_00030_02589_2537.N1	28-AUG-2002 23:50:56	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	2589	No
106	GOM_NL__2PRFIN20020828_235325_000000652009_00030_02589_2538.N1	28-AUG-2002 23:53:25	Twilight	64.500	28	12Bet Tau	1.6500	15200.	129	2589	No
107	GOM_NL__2PRFIN20020828_235625_000000502009_00030_02589_2539.N1	28-AUG-2002 23:56:25	Twilight	50.000	44	24Gam Gem	1.9280	11000.	100	2589	No
108	GOM_NL__2PRFIN20020828_235831_000000522009_00030_02589_2540.N1	28-AUG-2002 23:58:31	Twilight	52.000	8	10Alp CMI	0.40000	6500.0	104	2589	No

3. Quality information per product

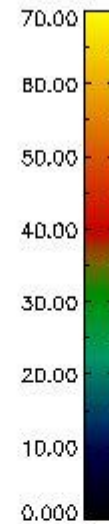
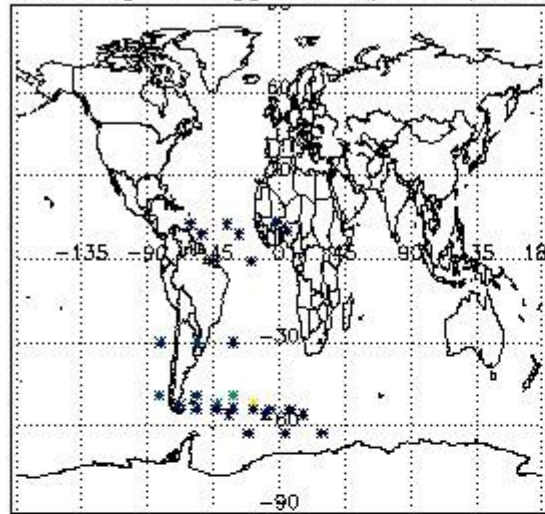
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

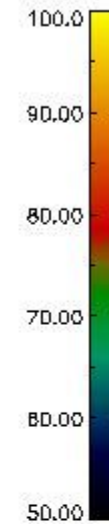
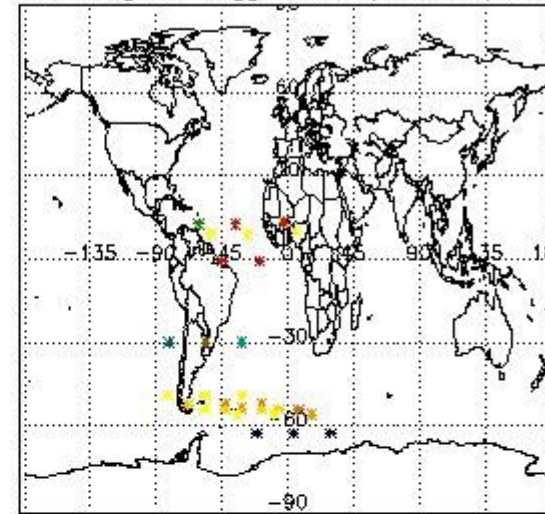


3.2 Plot quality information per product (world map)

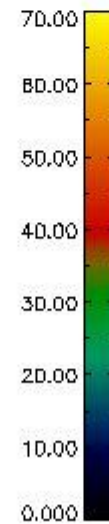
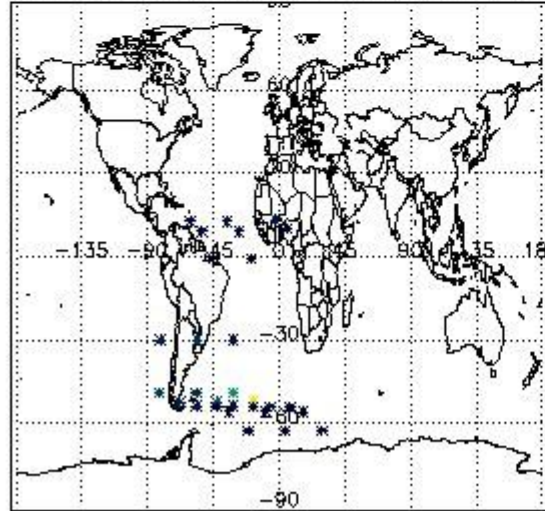
Percentage of flagged data per O3 profile



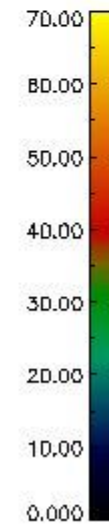
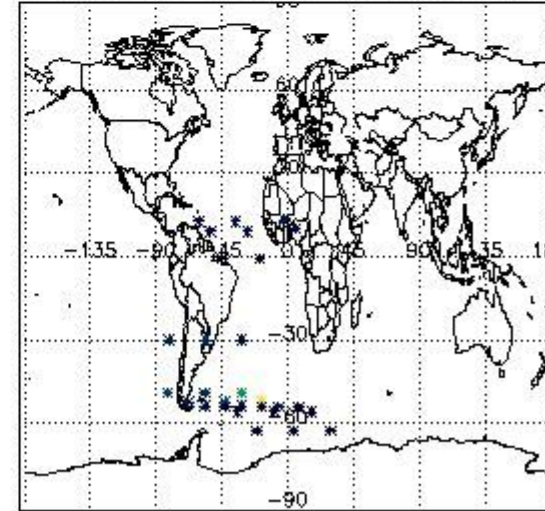
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

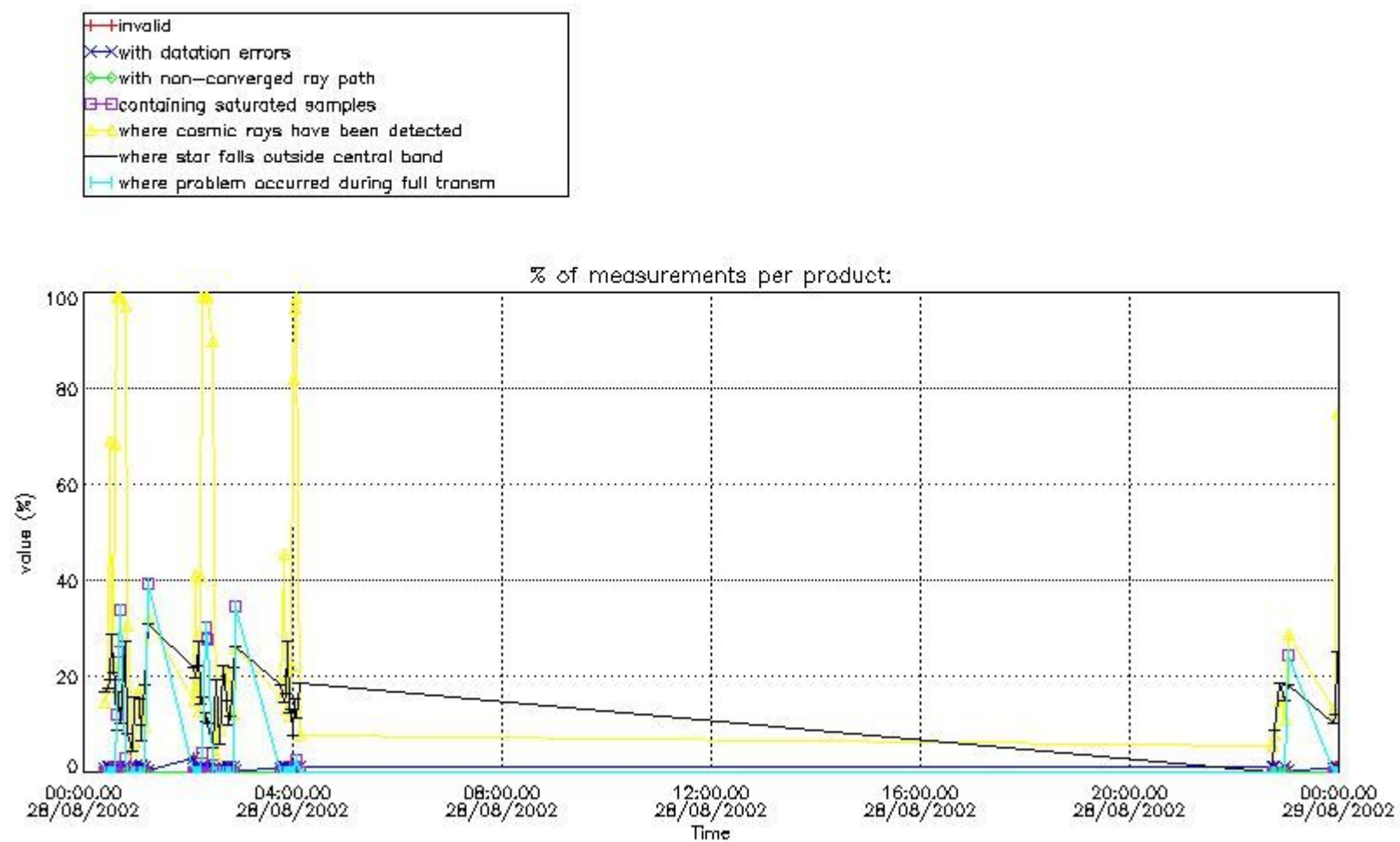


4. Level 1 quality information per product

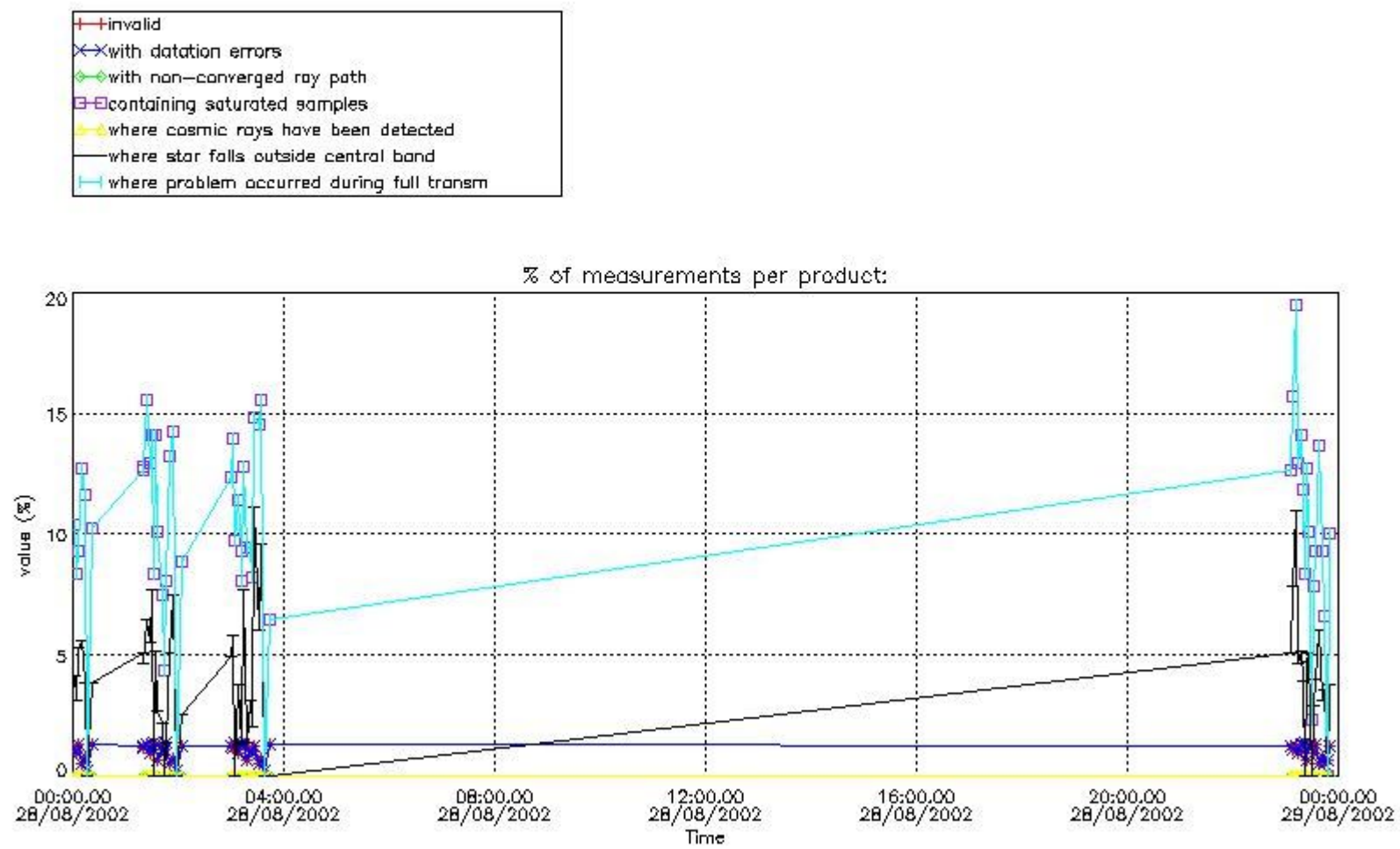
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



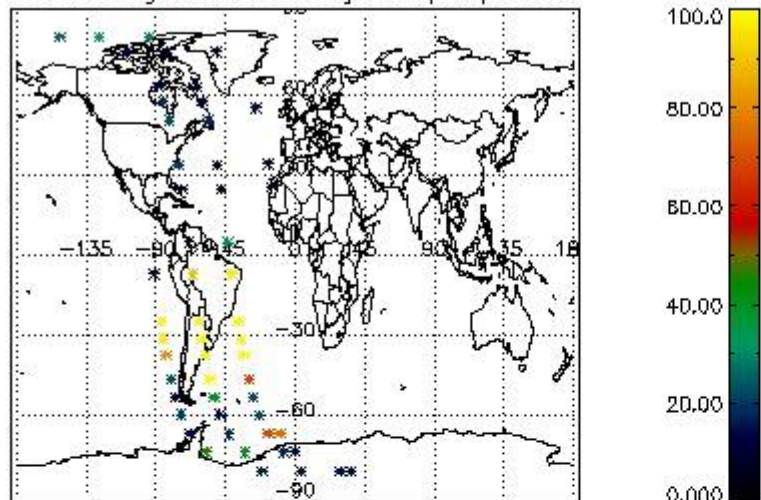
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



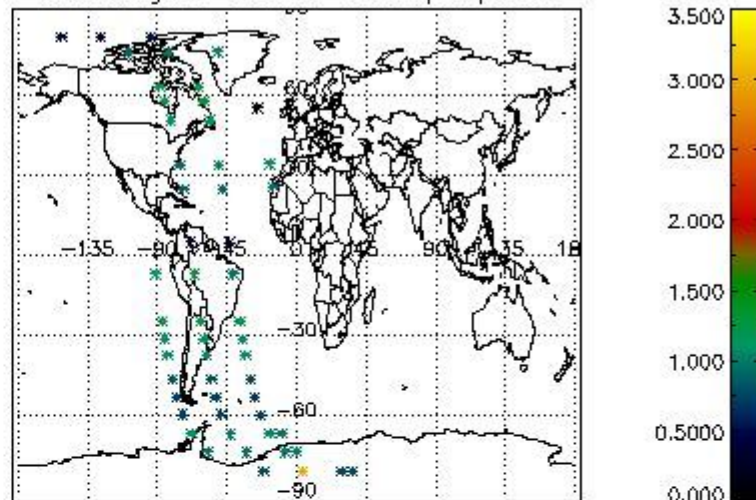
4.2 Plot quality information per product coming from level 1b processing (world map)

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

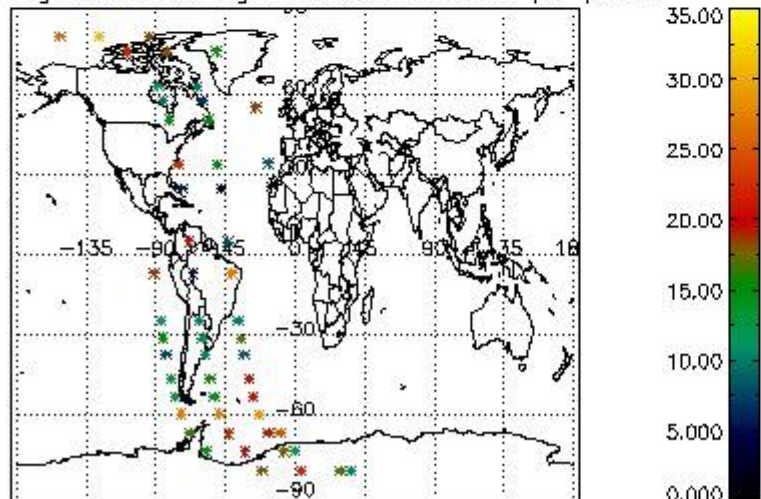
Percentage of cosmic ray hits per profile



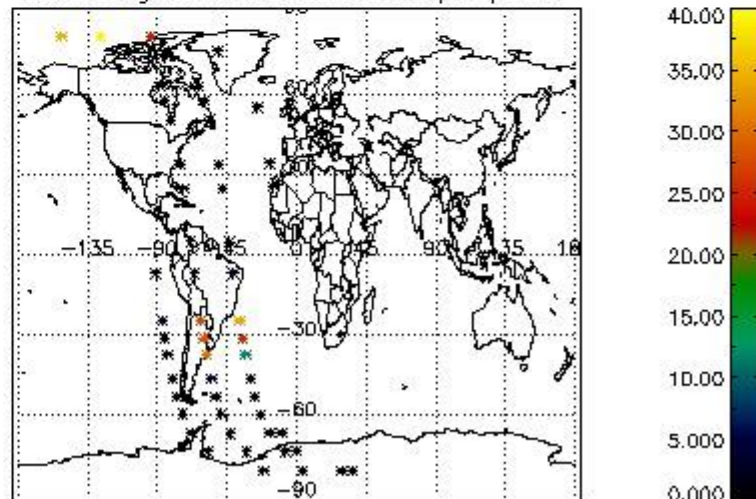
Percentage of datation errors per profile



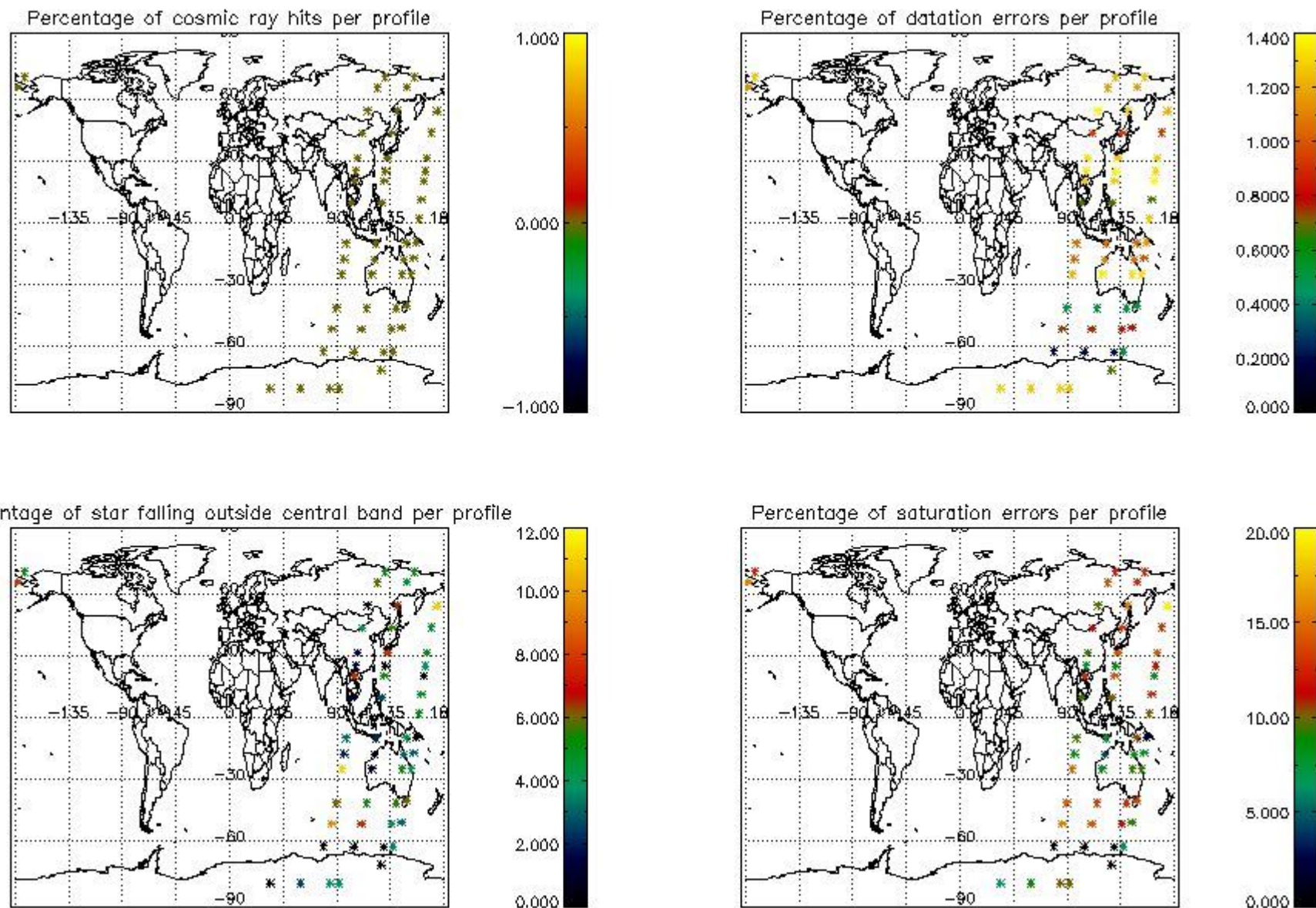
Percentage of star falling outside central band per profile



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

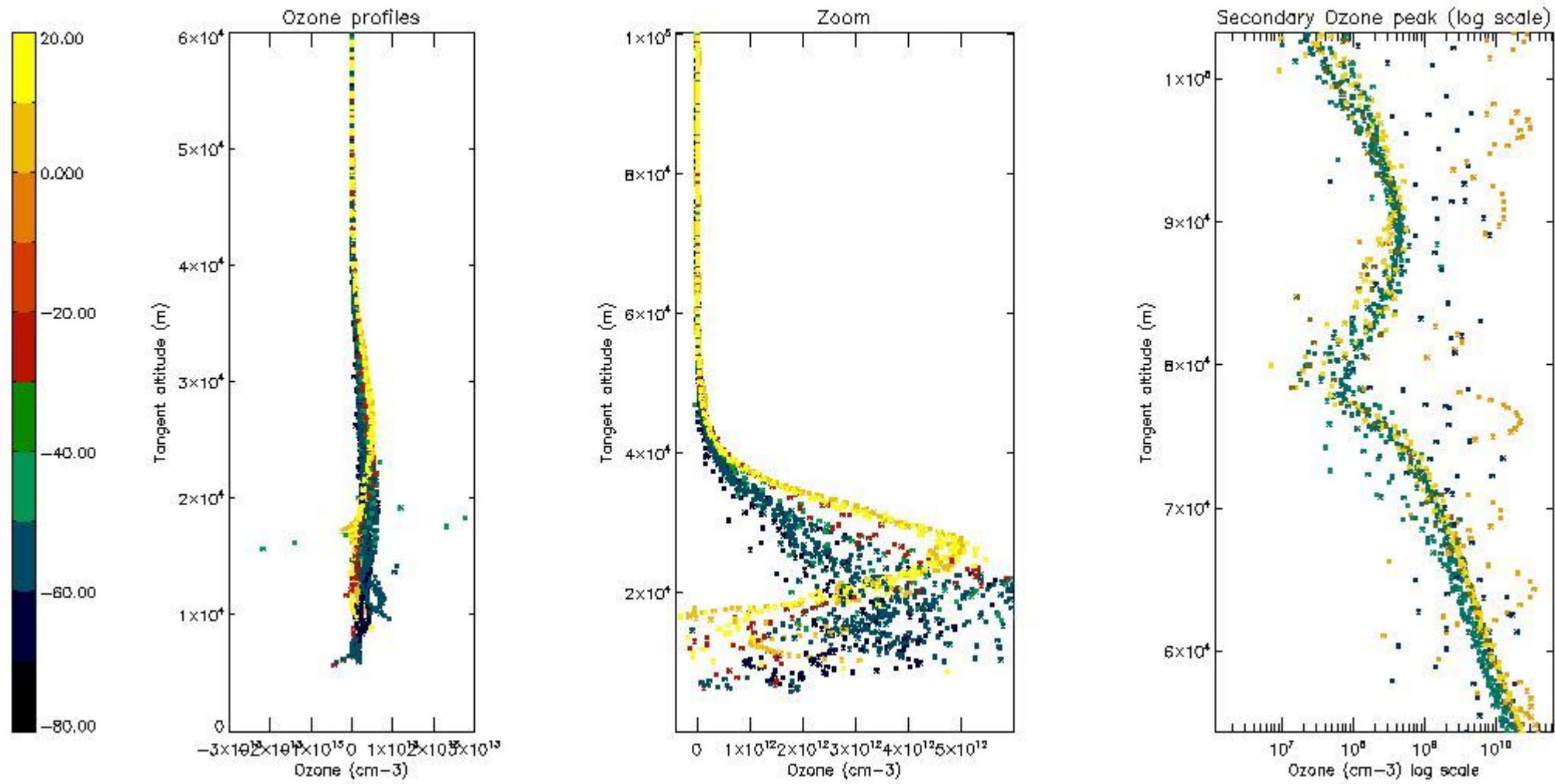
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	16

STD < 10	13
STD < 5	10

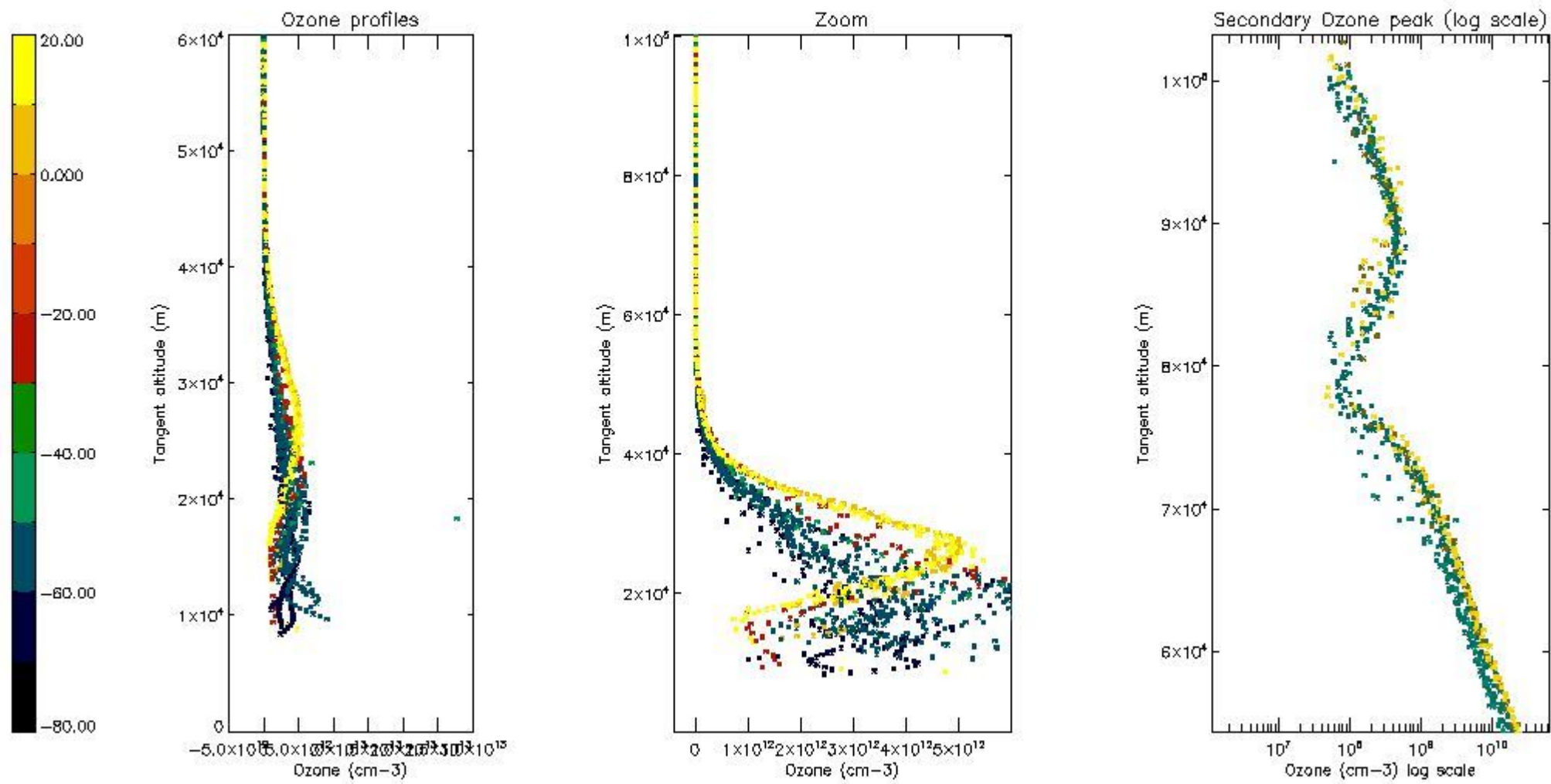
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



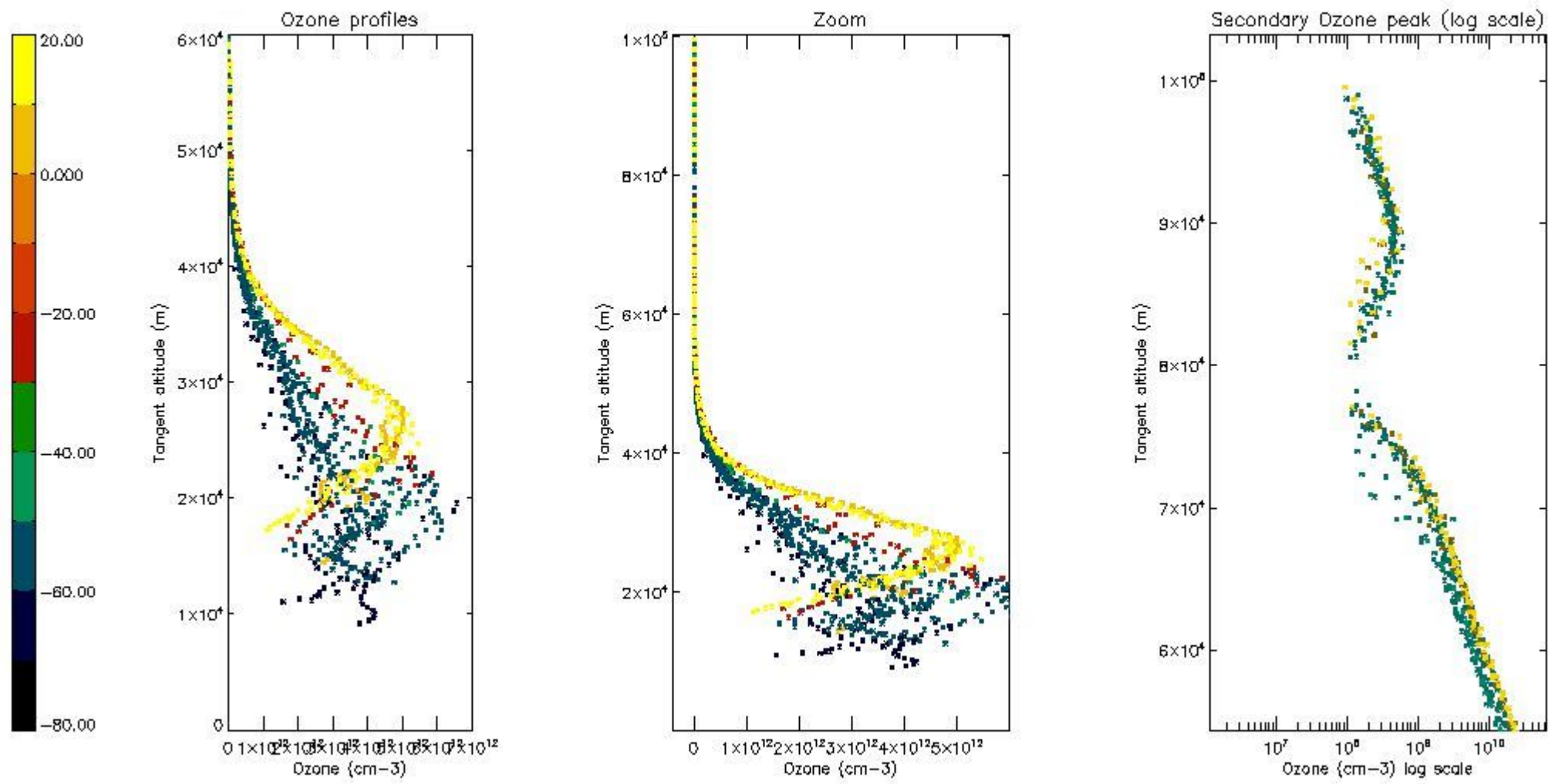
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



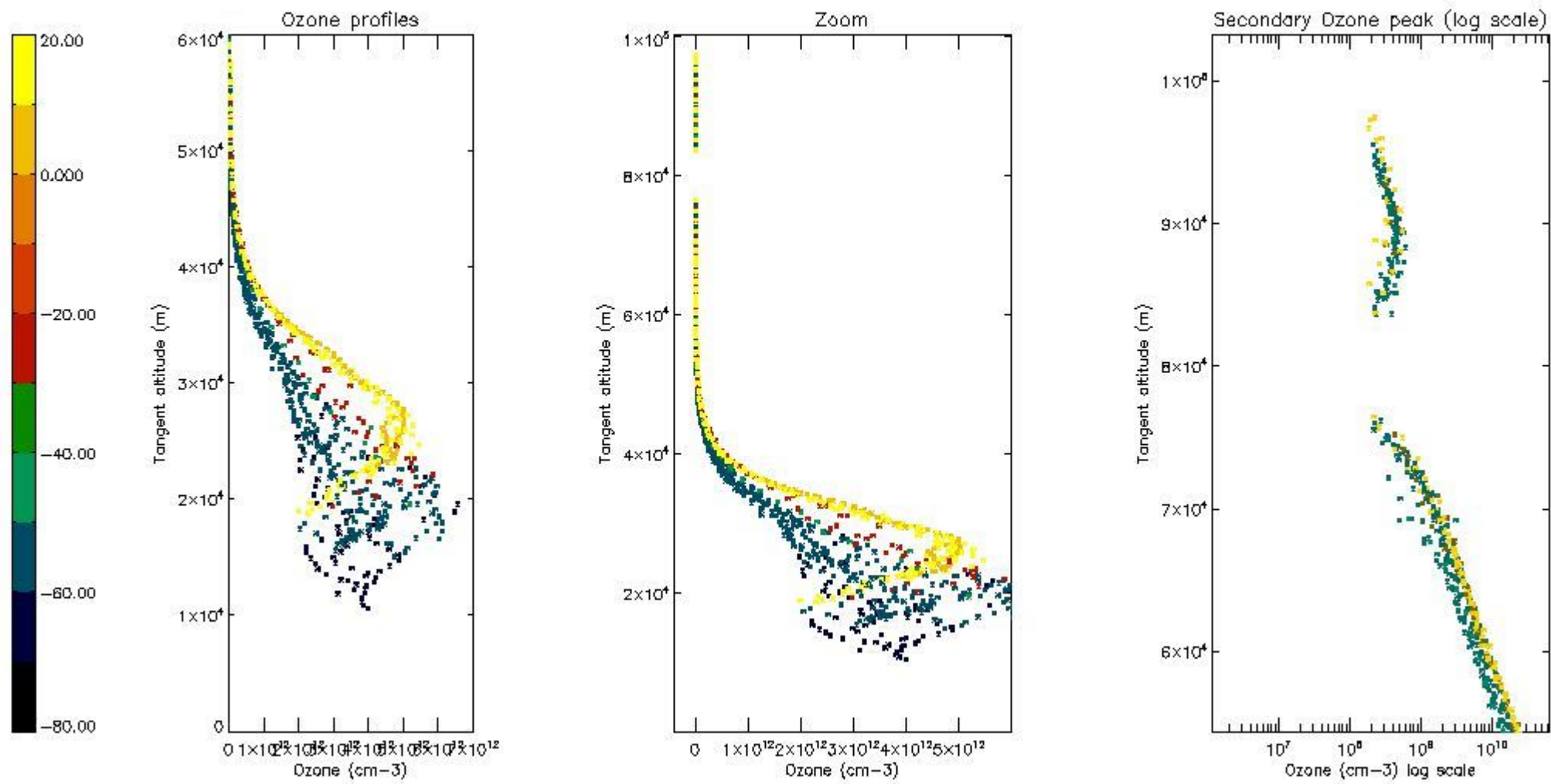
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



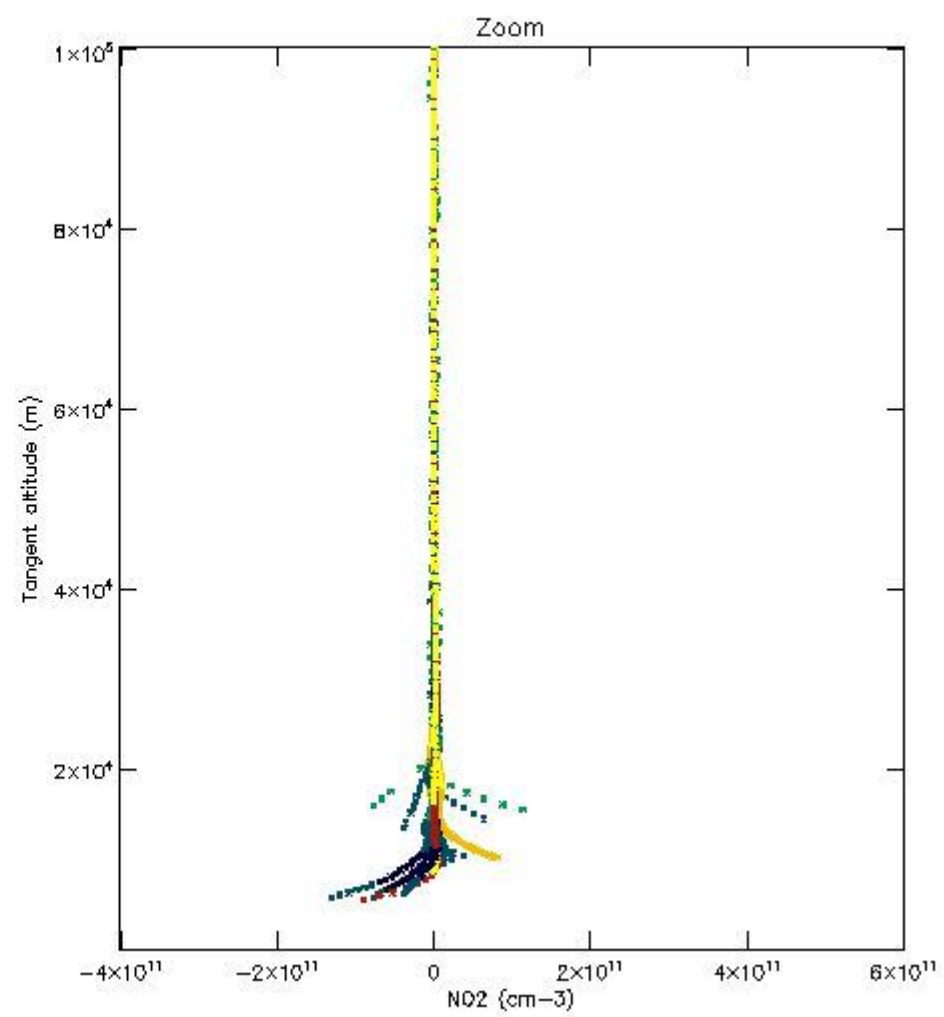
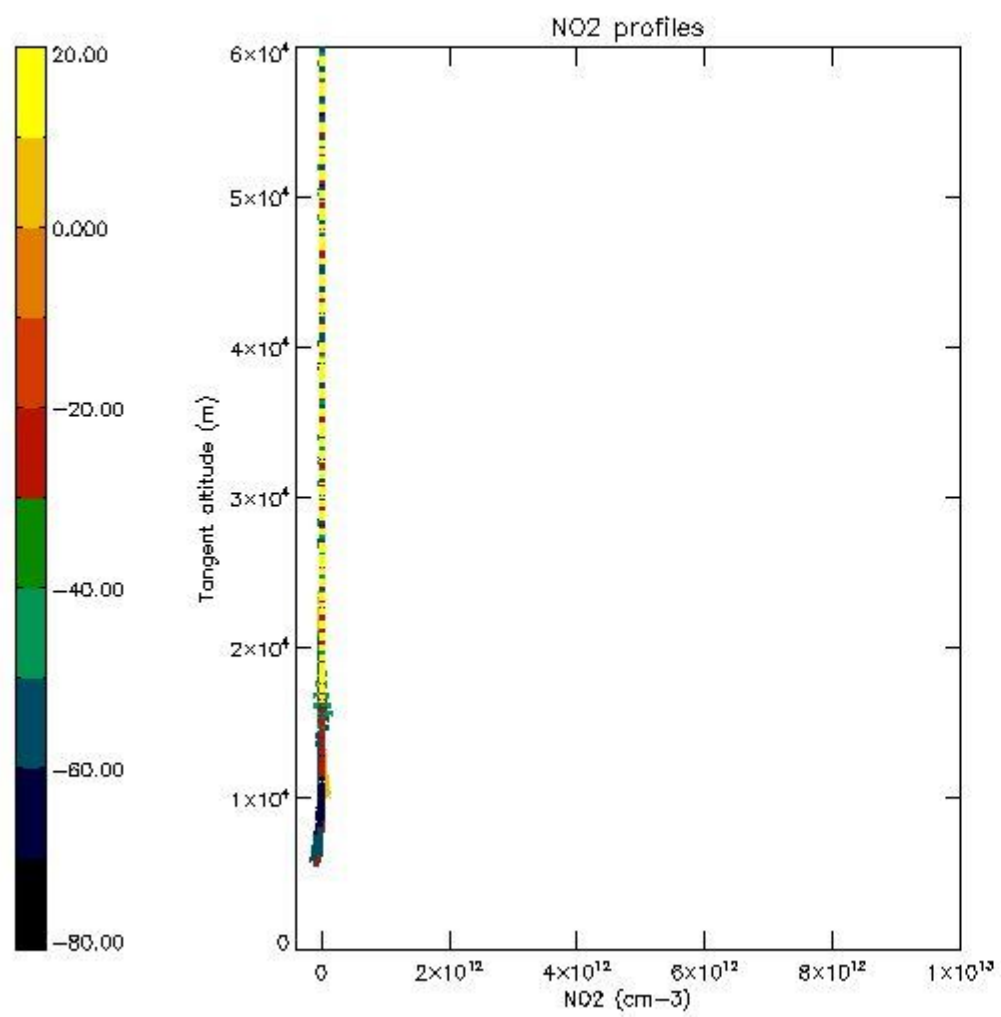
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



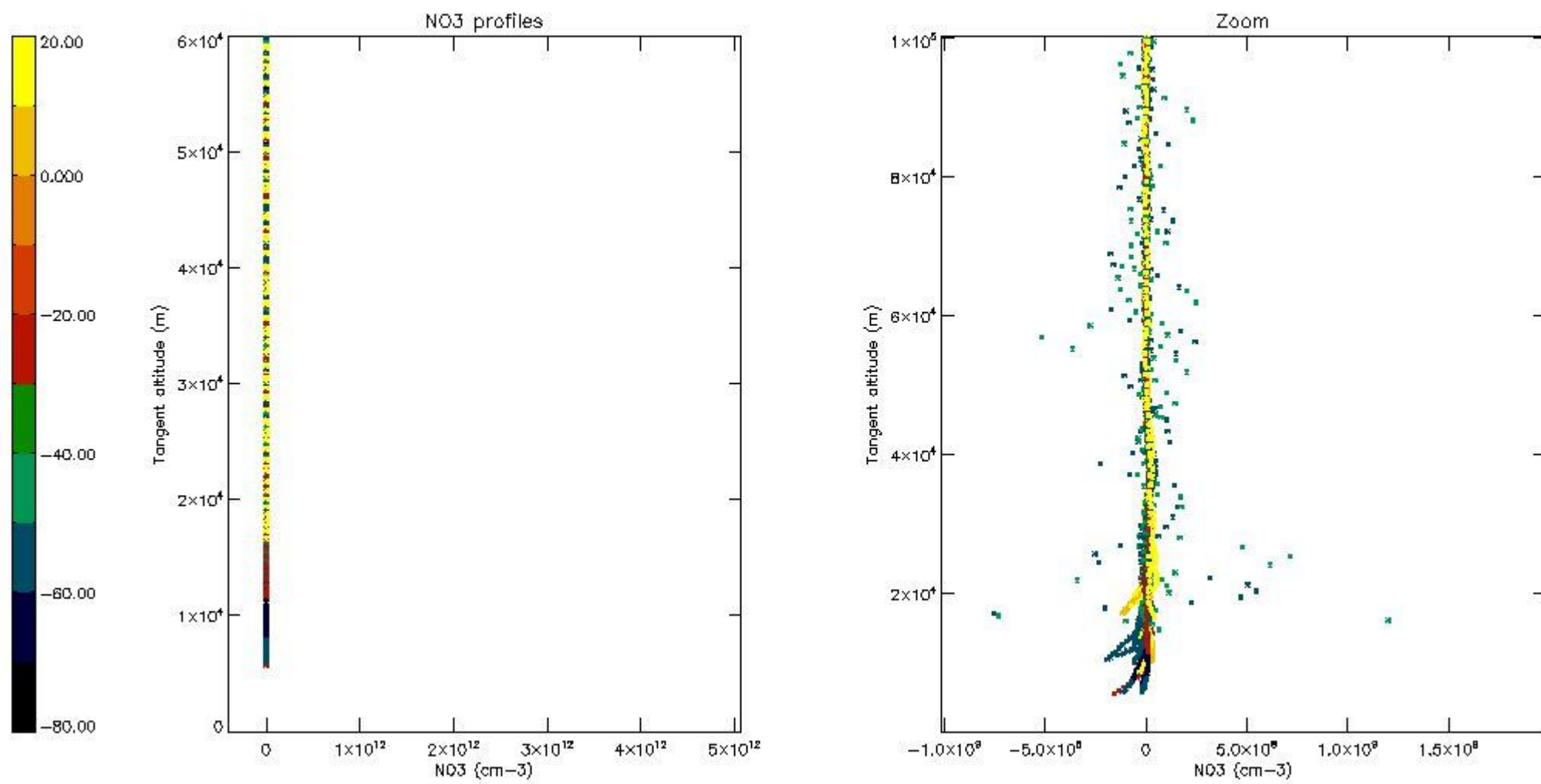
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



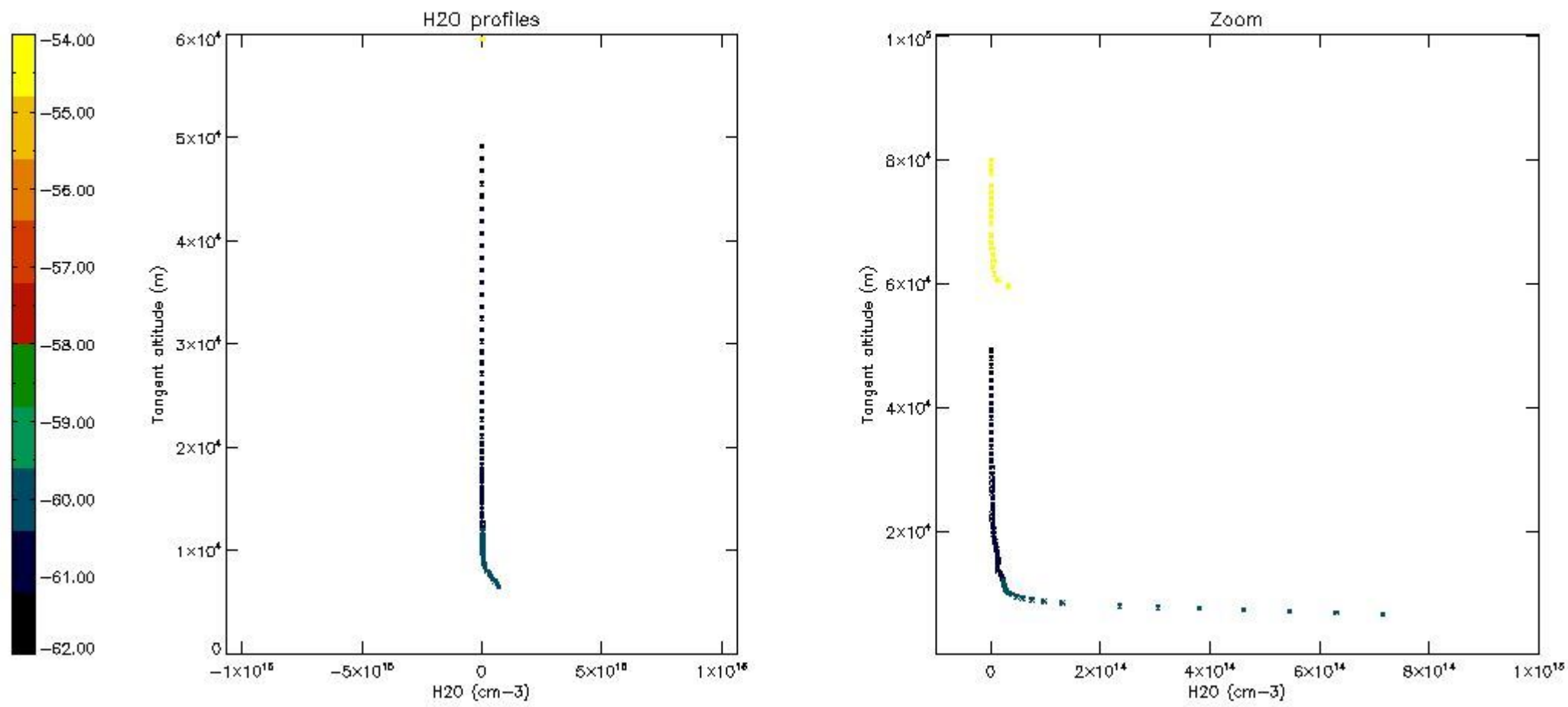
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

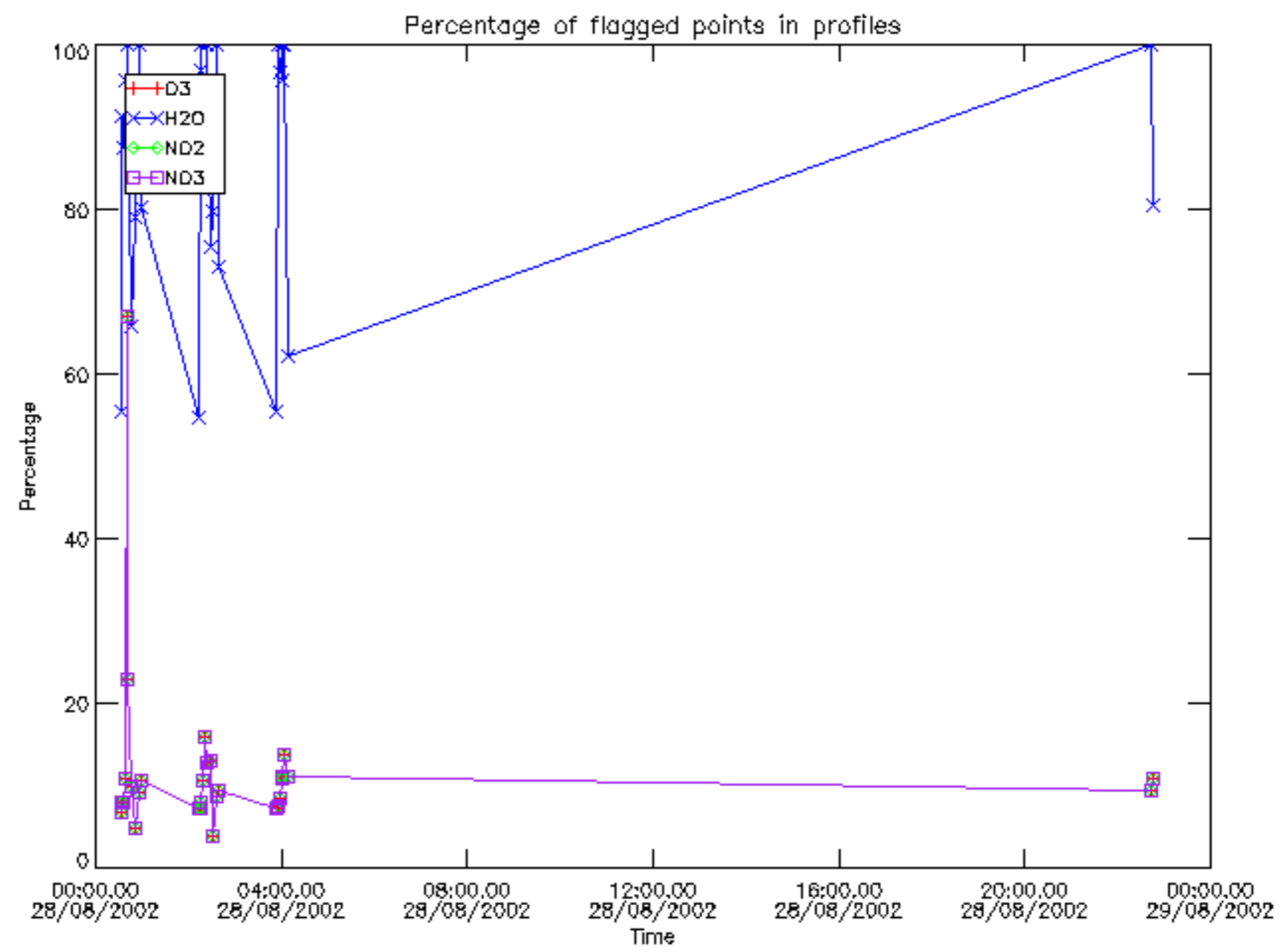
The colorbar represents the latitude.



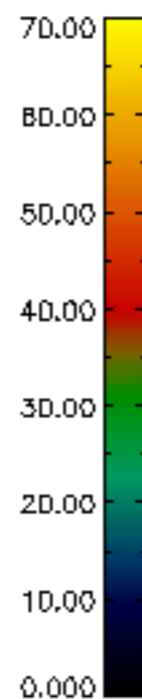
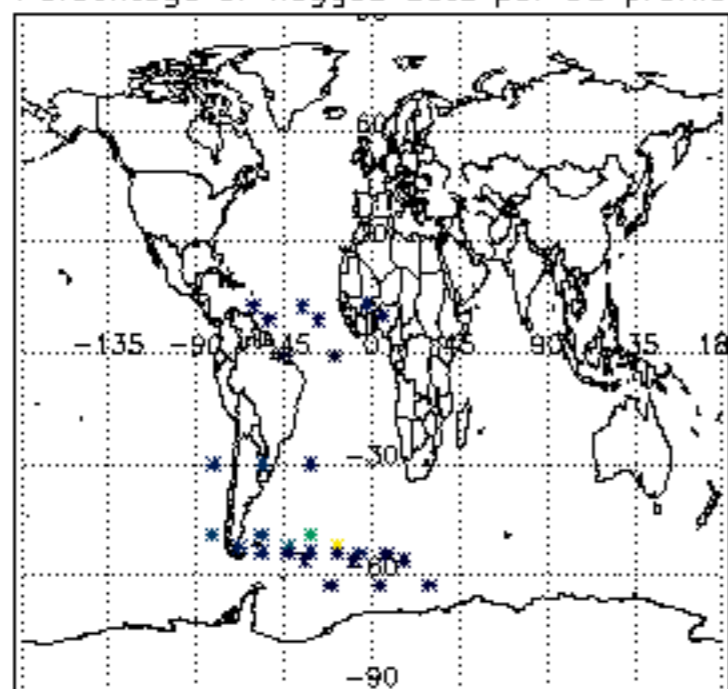
6. Auxiliary Data Files used for the production reported in section 2

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.

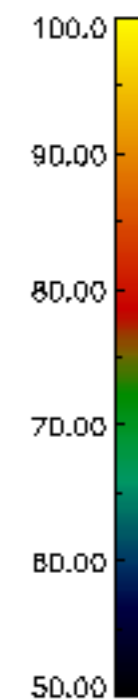
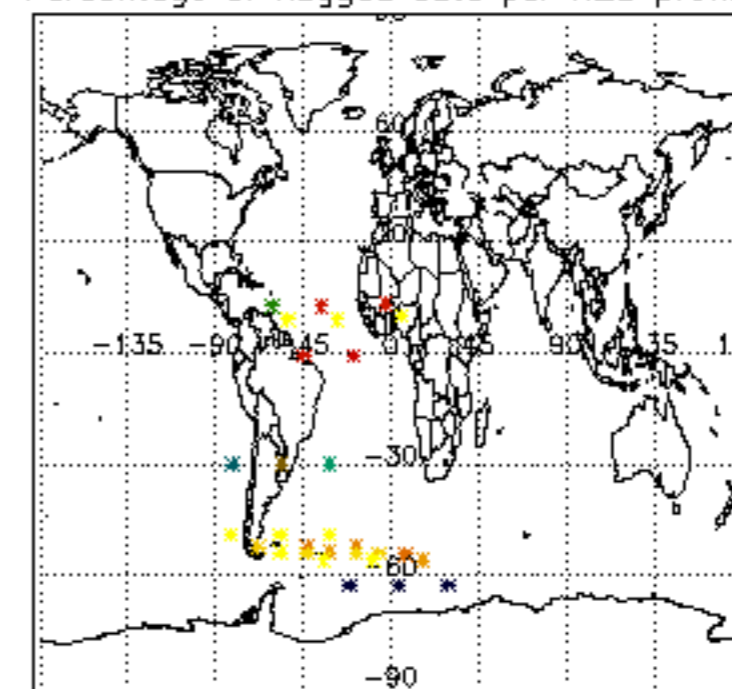
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	28-AUG-2002 00:01:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-AUG-2002 00:01:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-AUG-2002 00:01:30



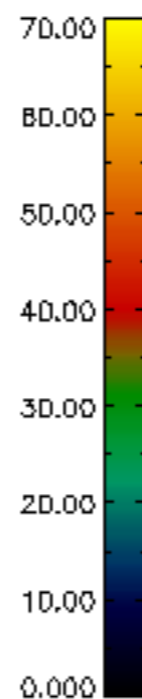
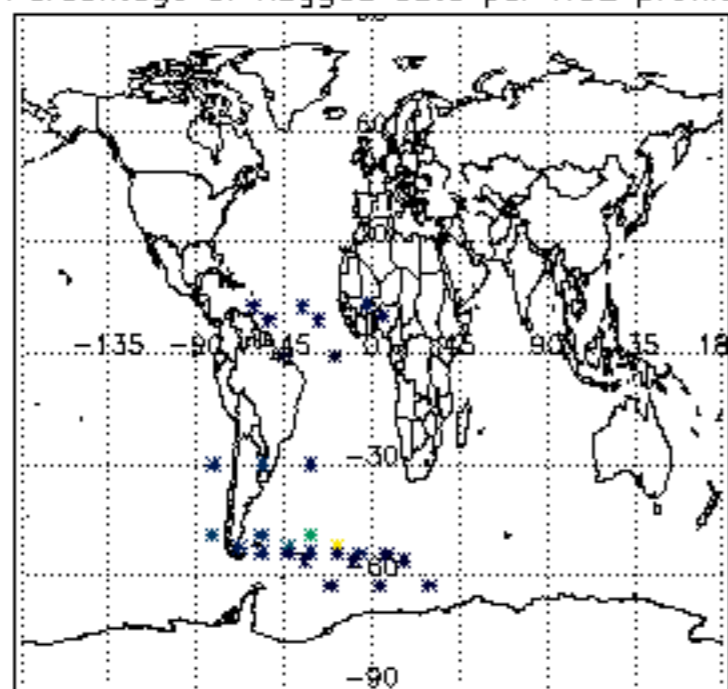
Percentage of flagged data per D3 profile



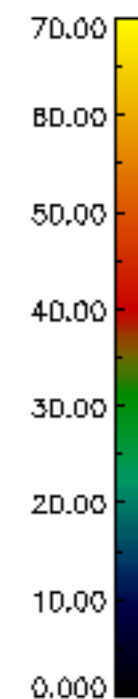
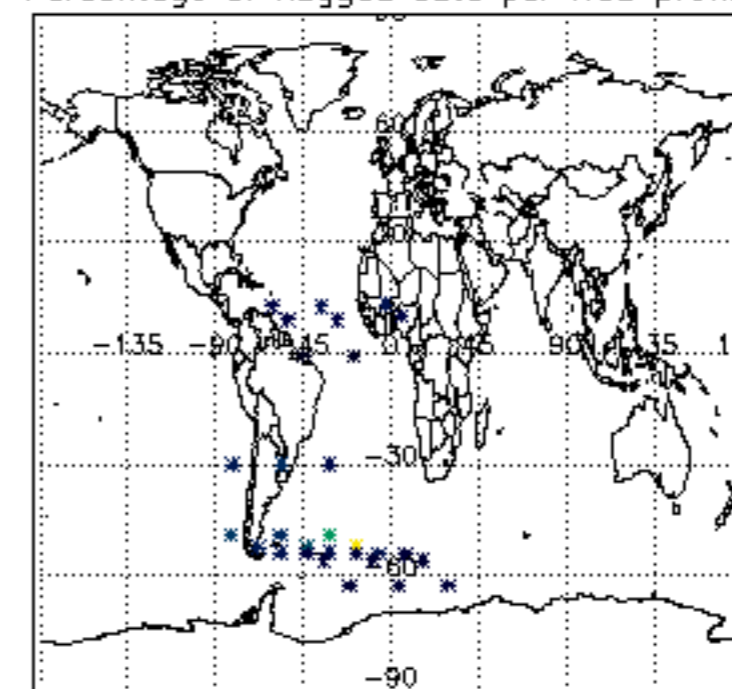
Percentage of flagged data per H2O profile

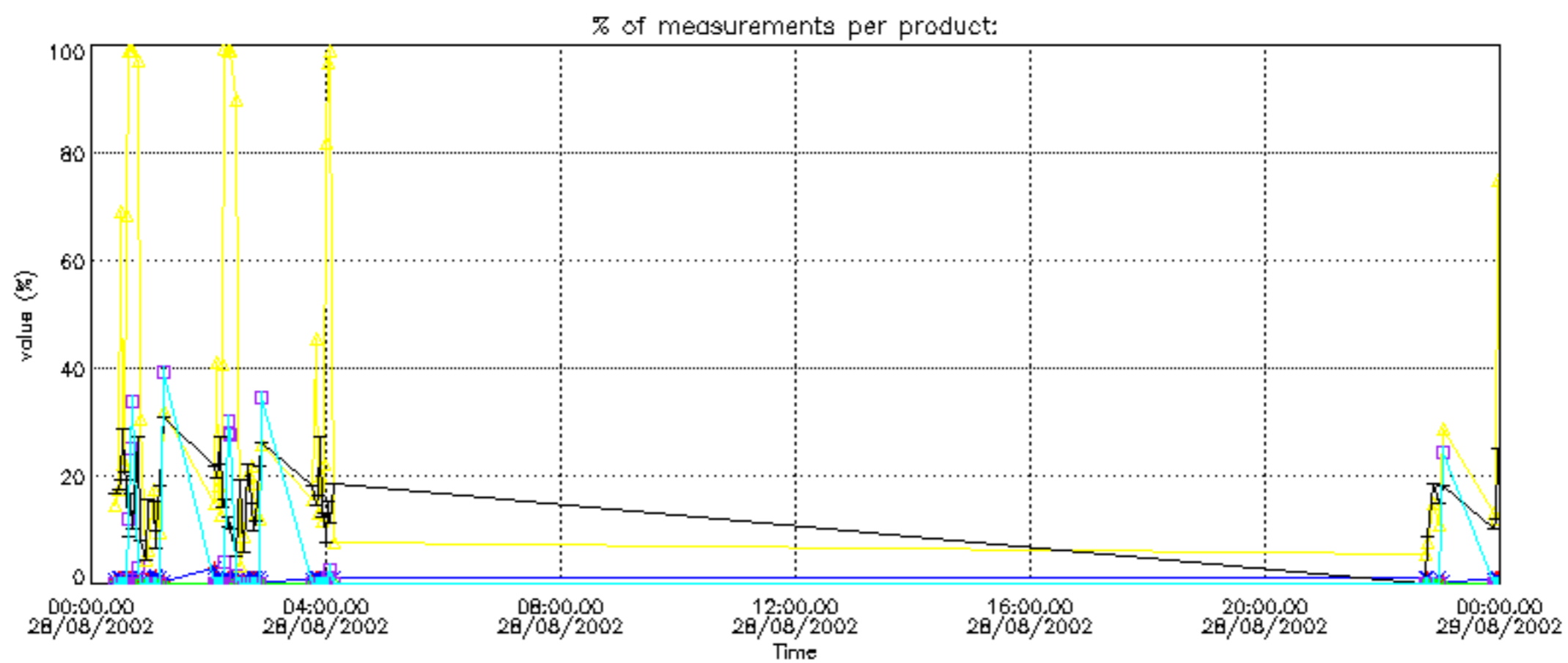
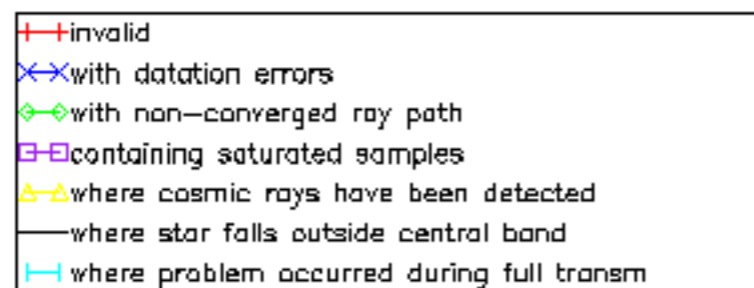


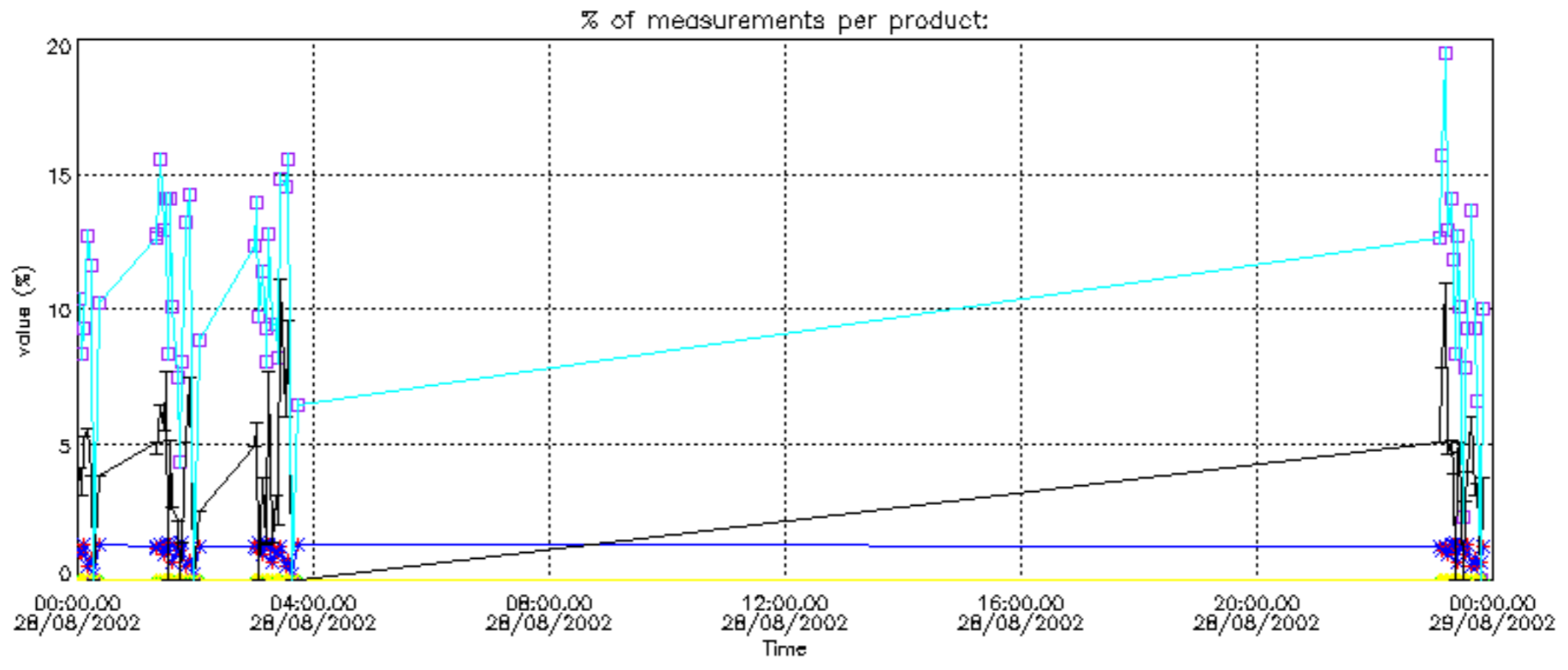
Percentage of flagged data per NO2 profile



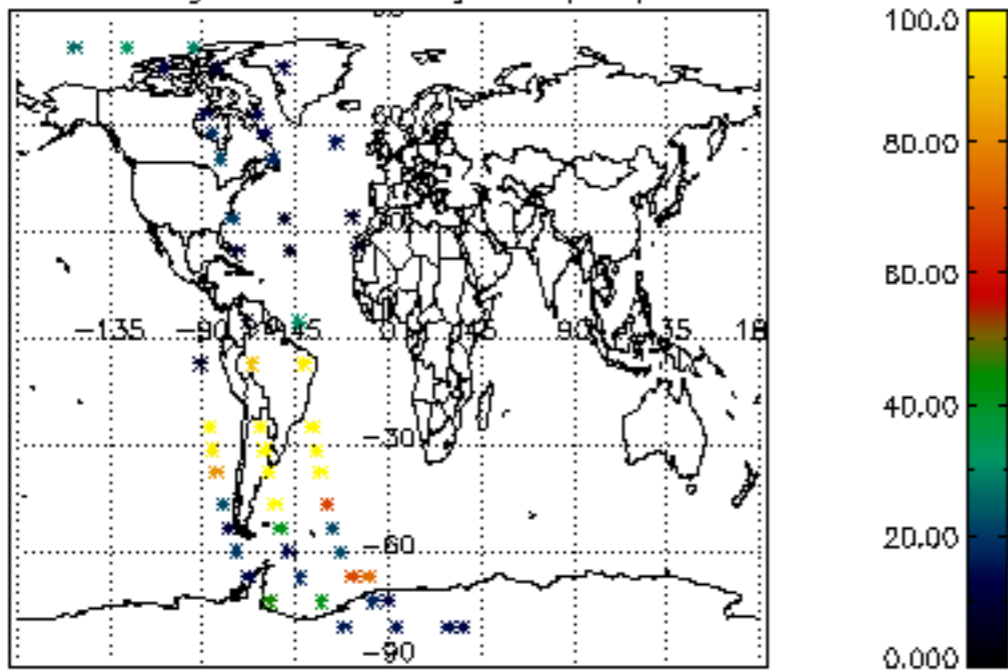
Percentage of flagged data per NO3 profile



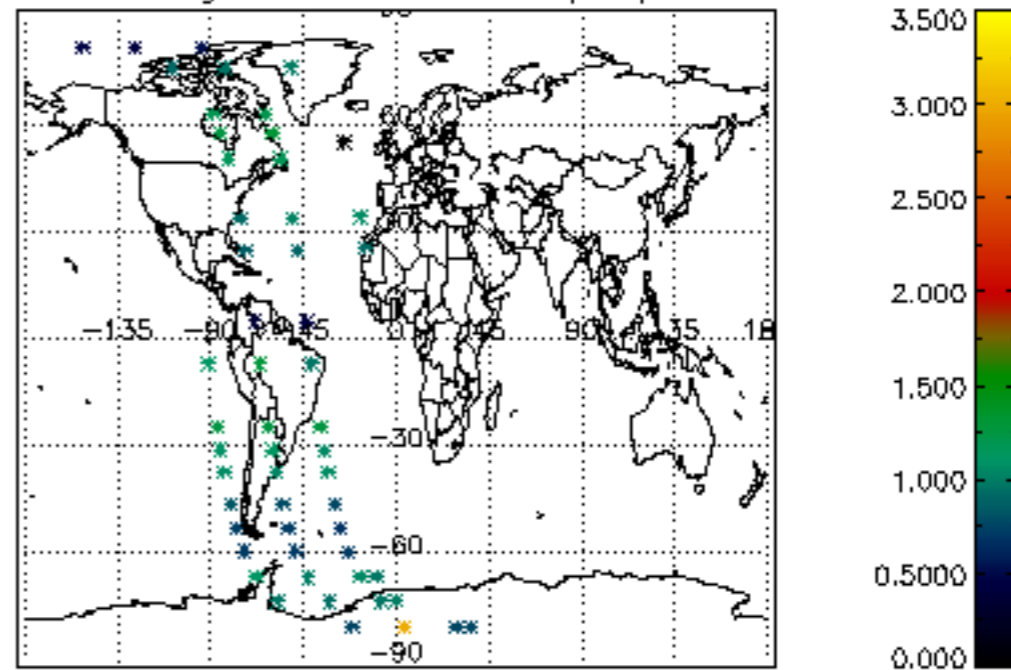




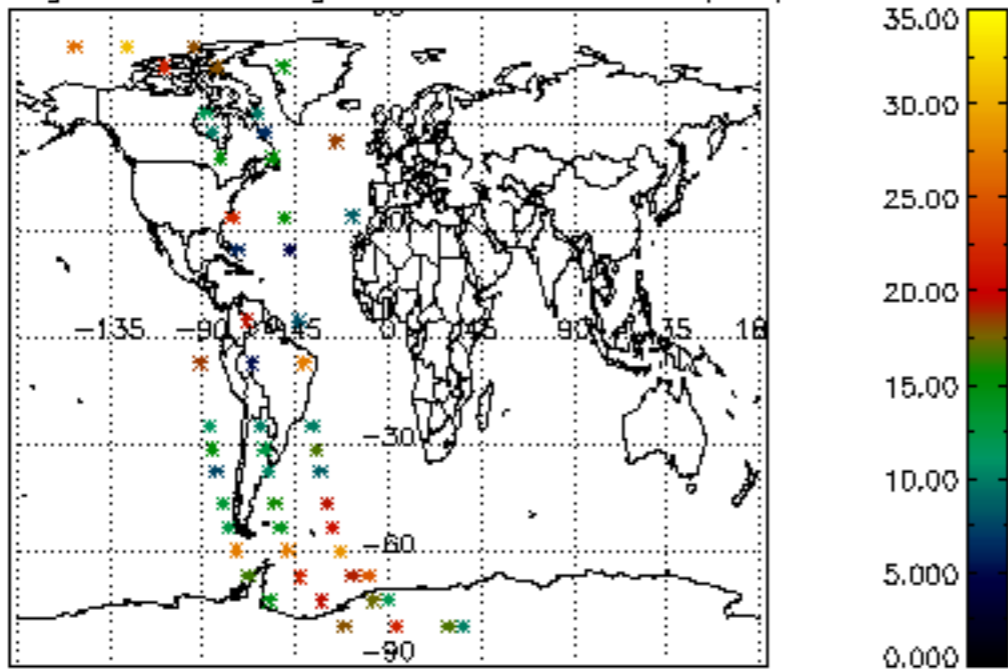
Percentage of cosmic ray hits per profile



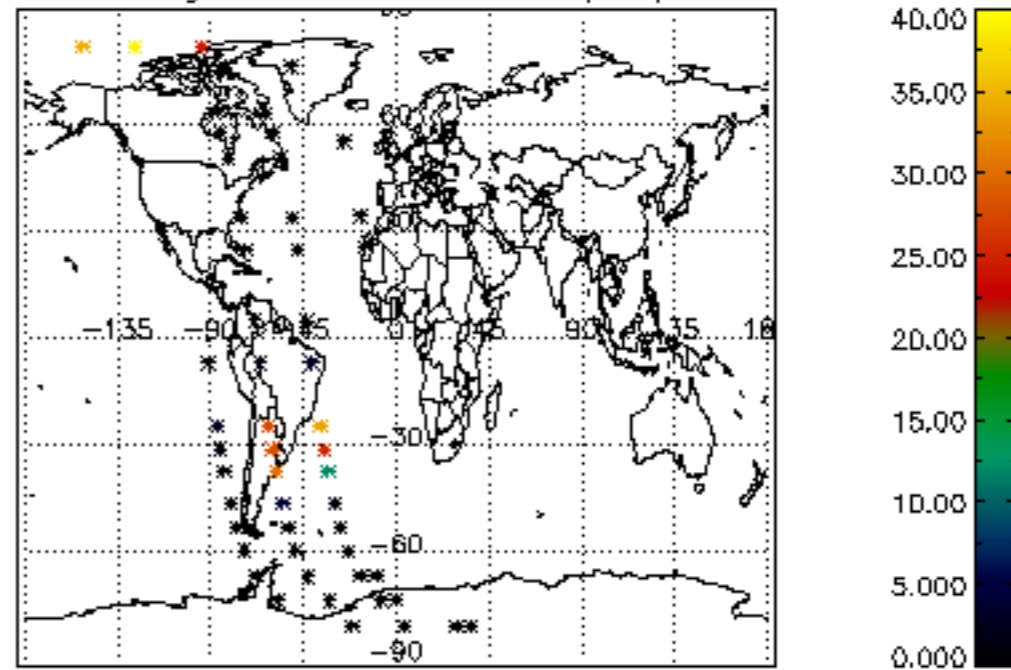
Percentage of datation errors per profile



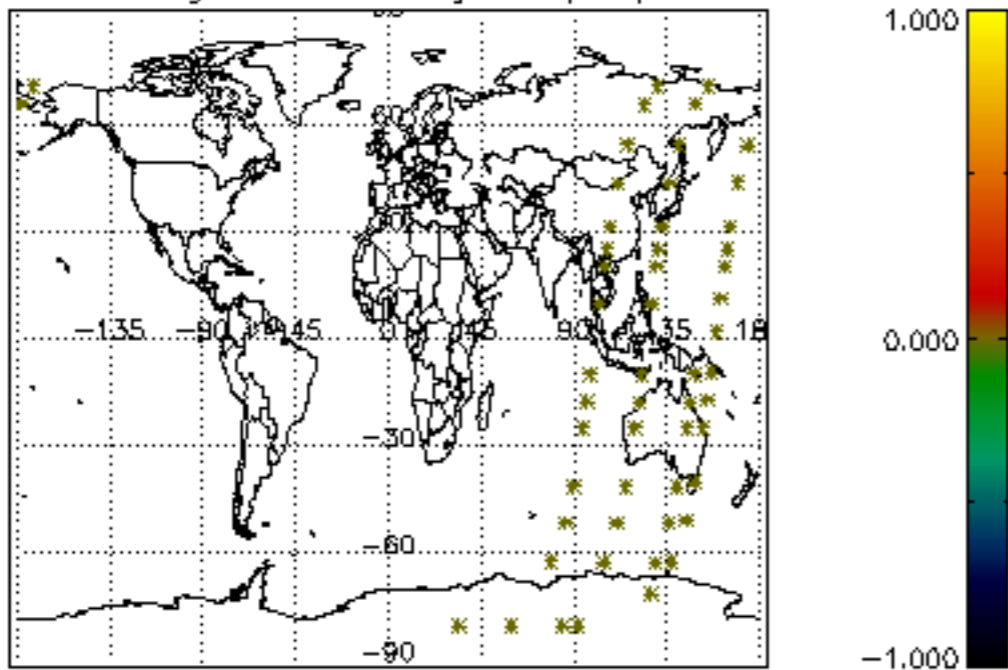
Percentage of star falling outside central band per profile



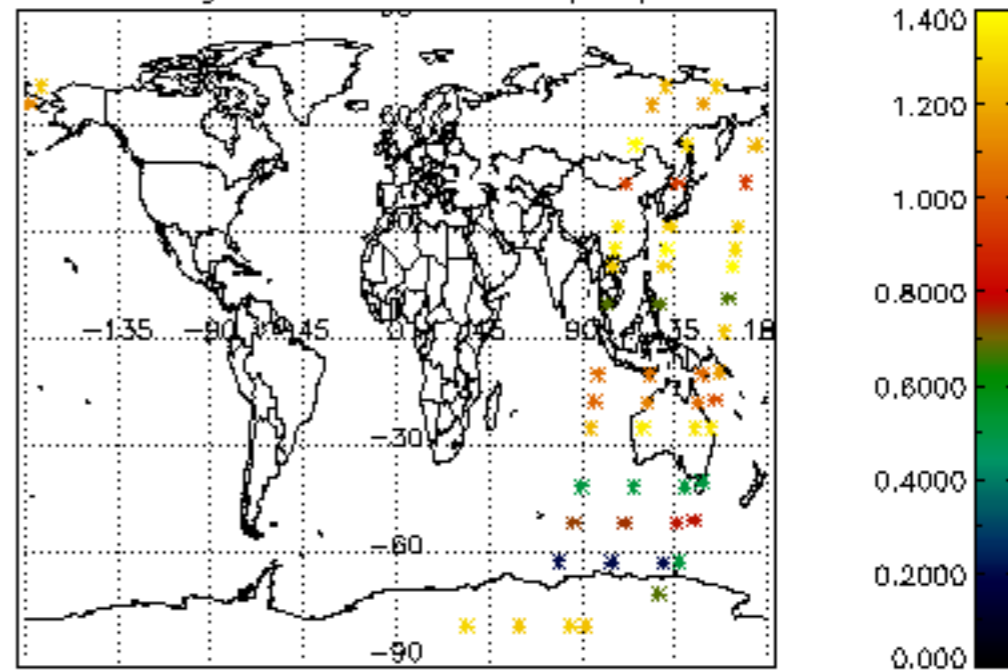
Percentage of saturation errors per profile



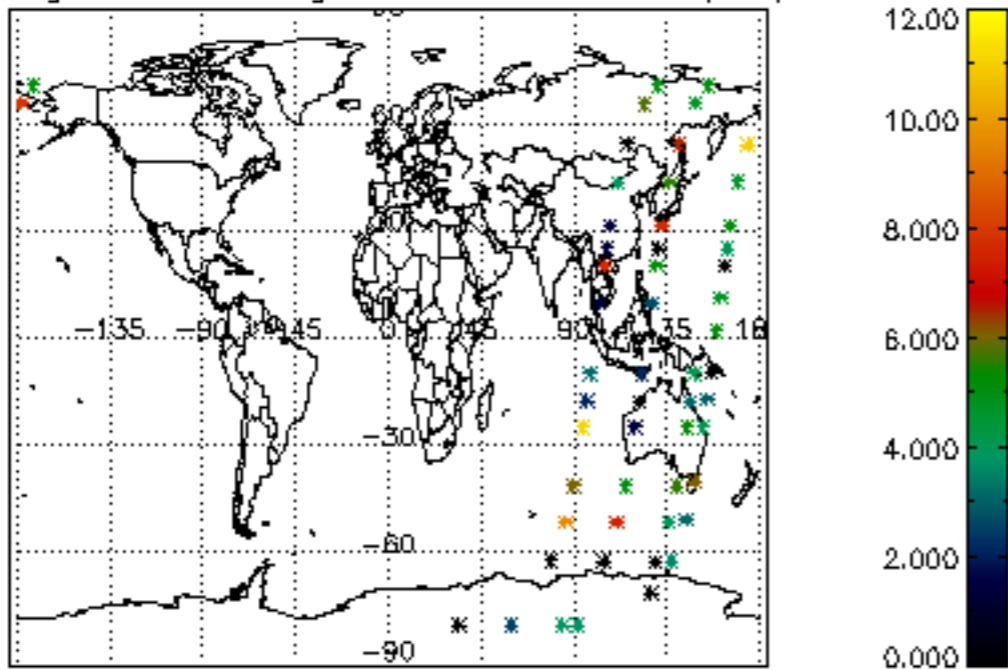
Percentage of cosmic ray hits per profile



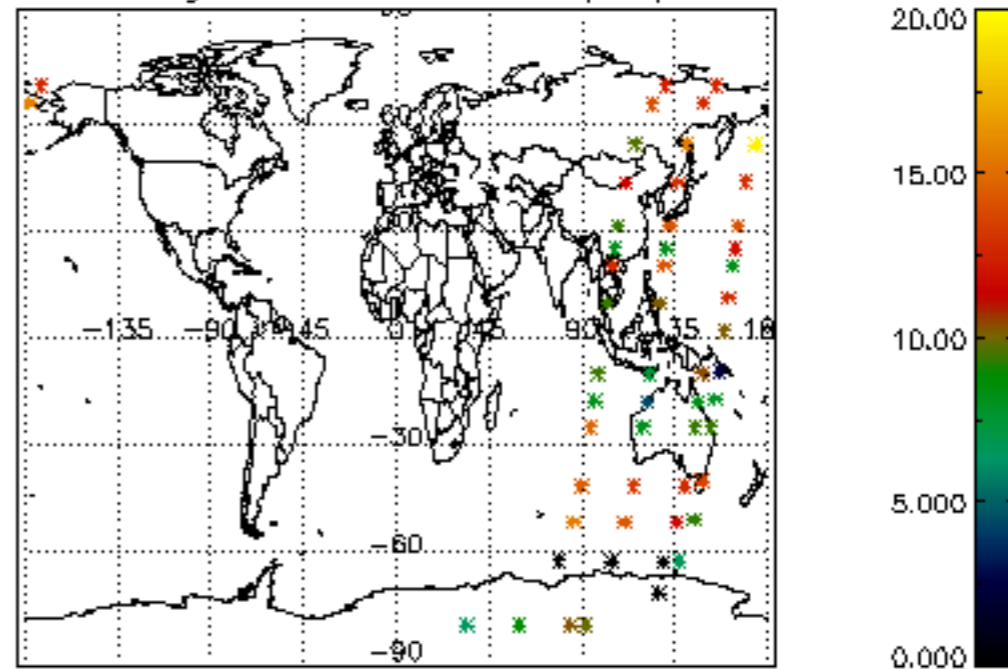
Percentage of datation errors per profile

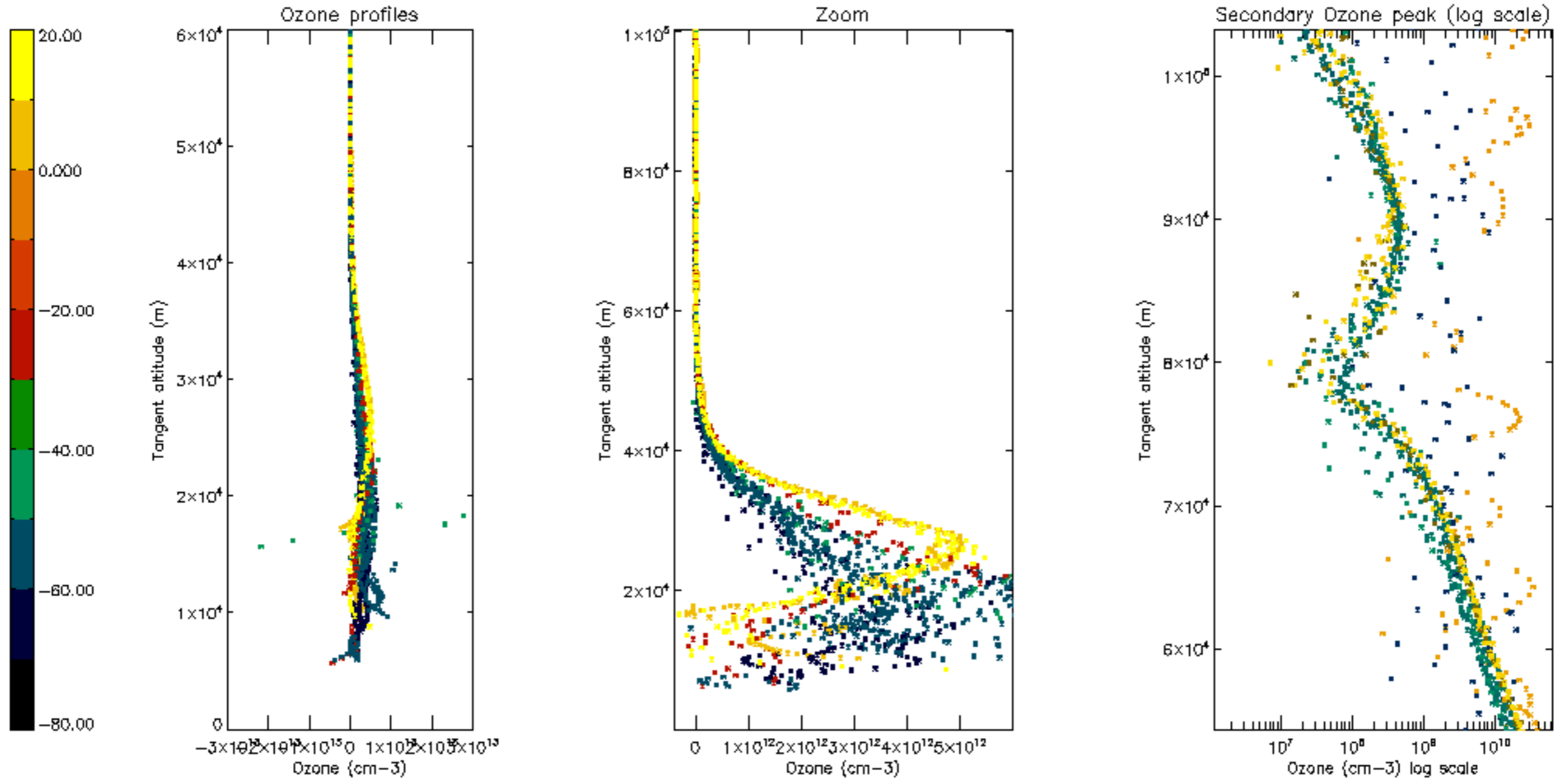


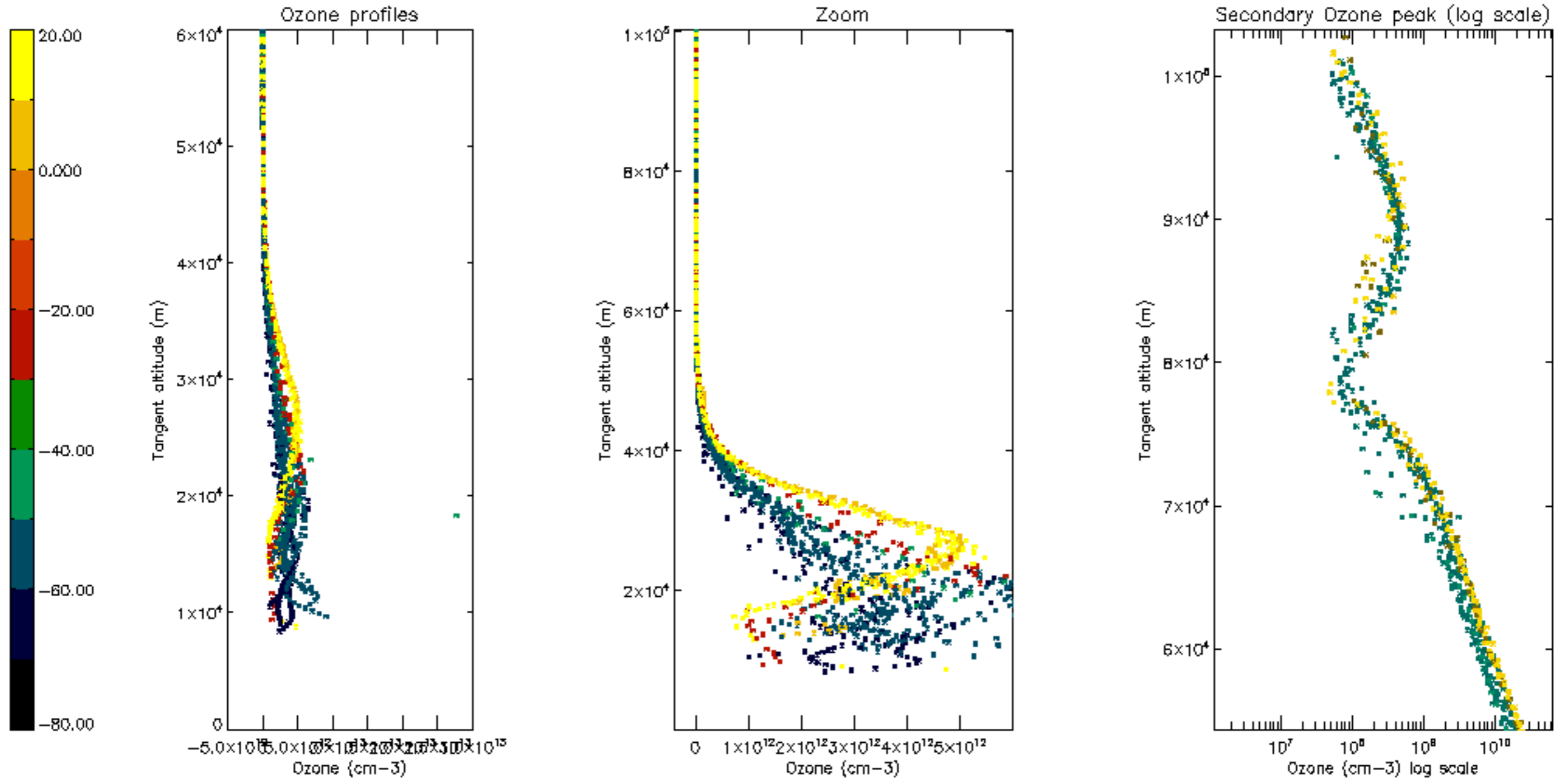
Percentage of star falling outside central band per profile

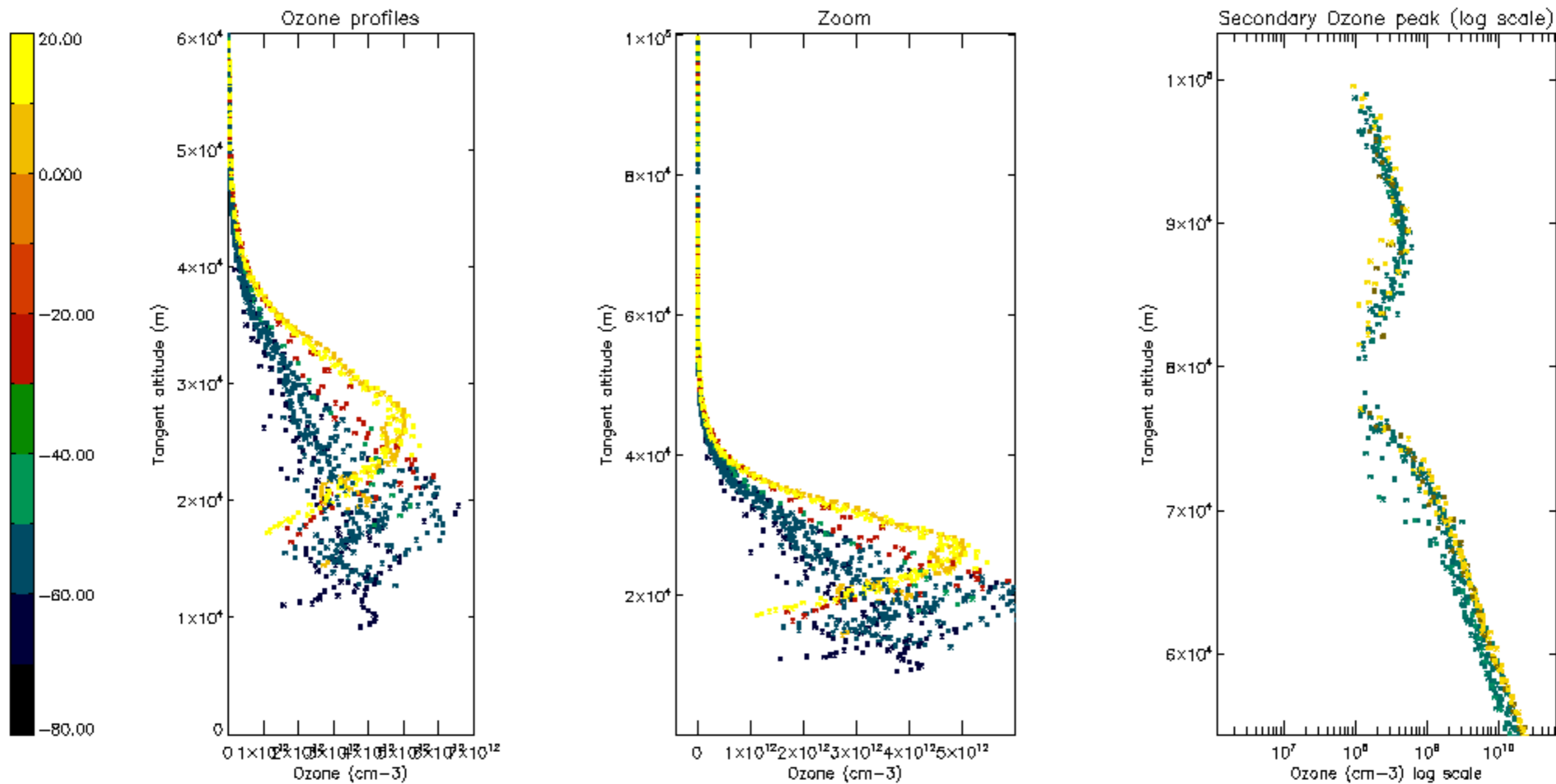


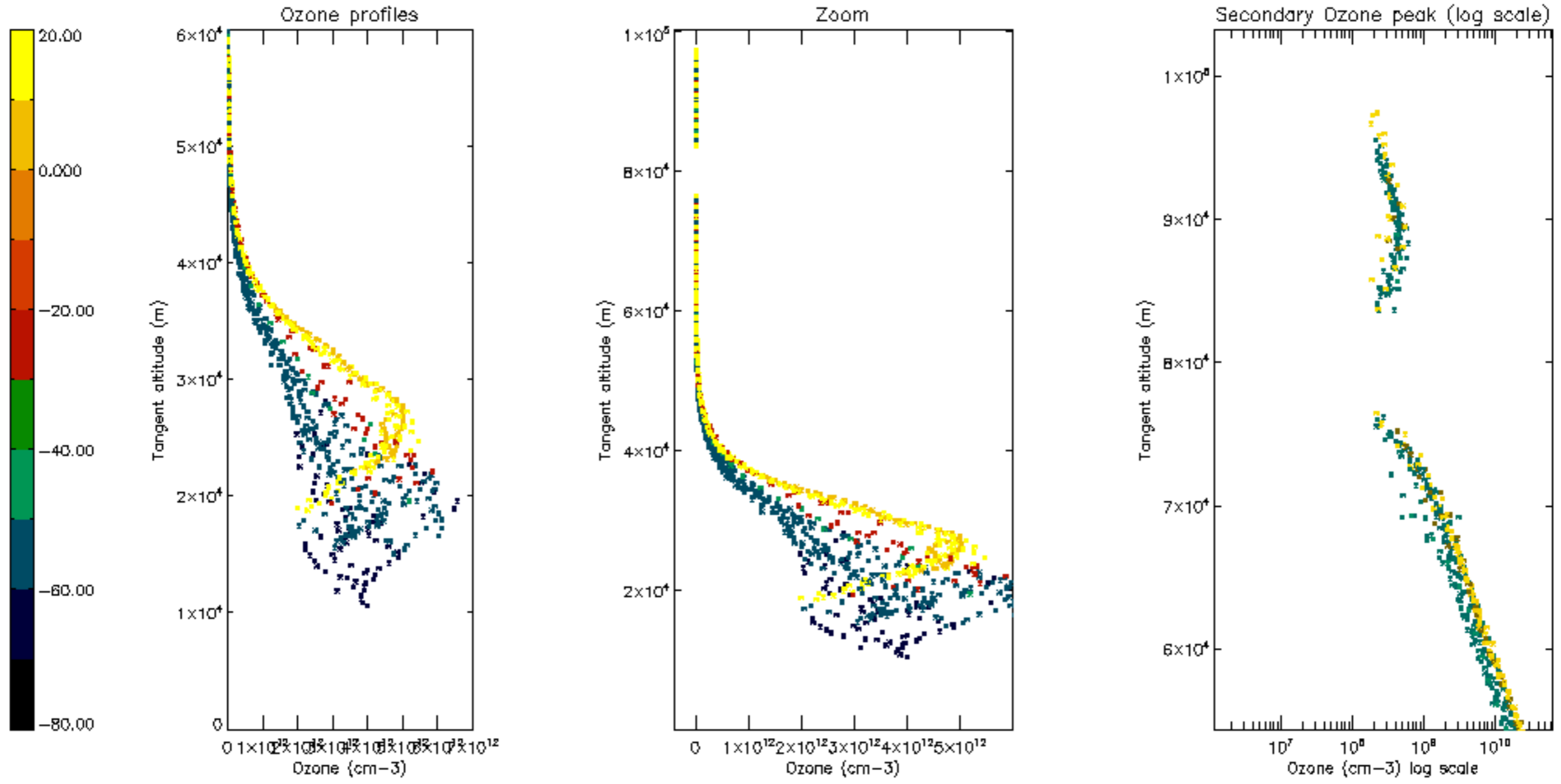
Percentage of saturation errors per profile

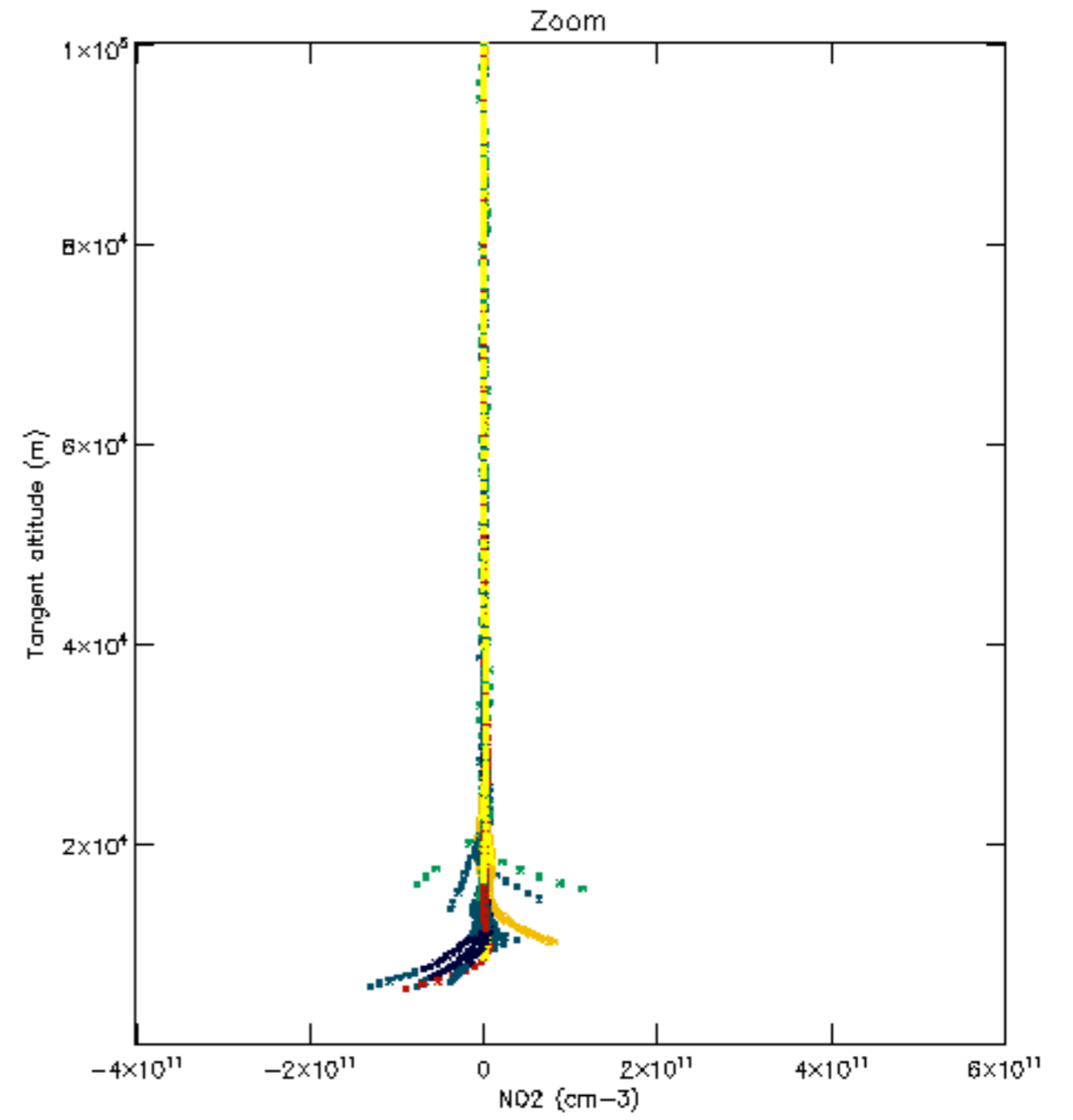
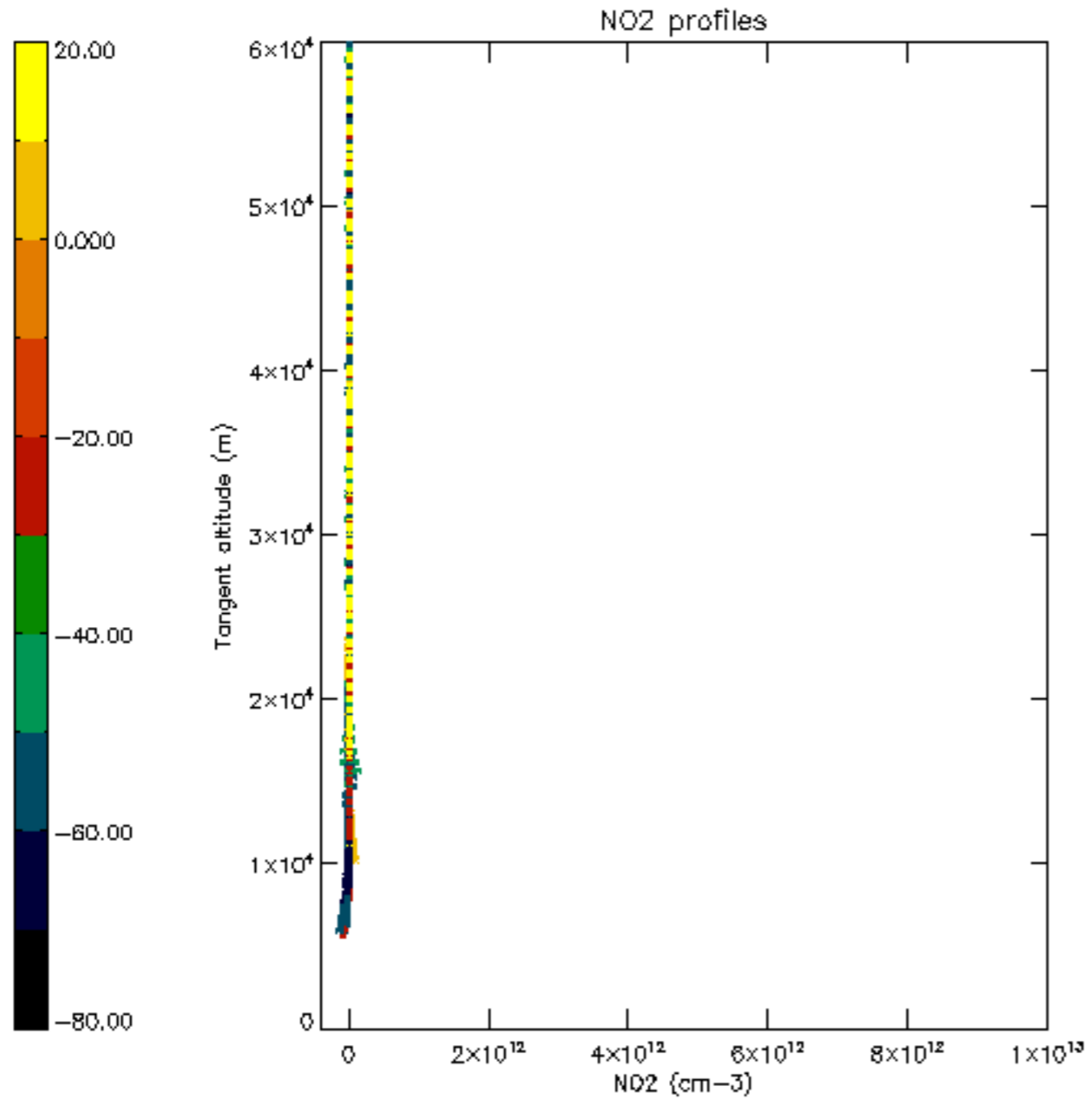


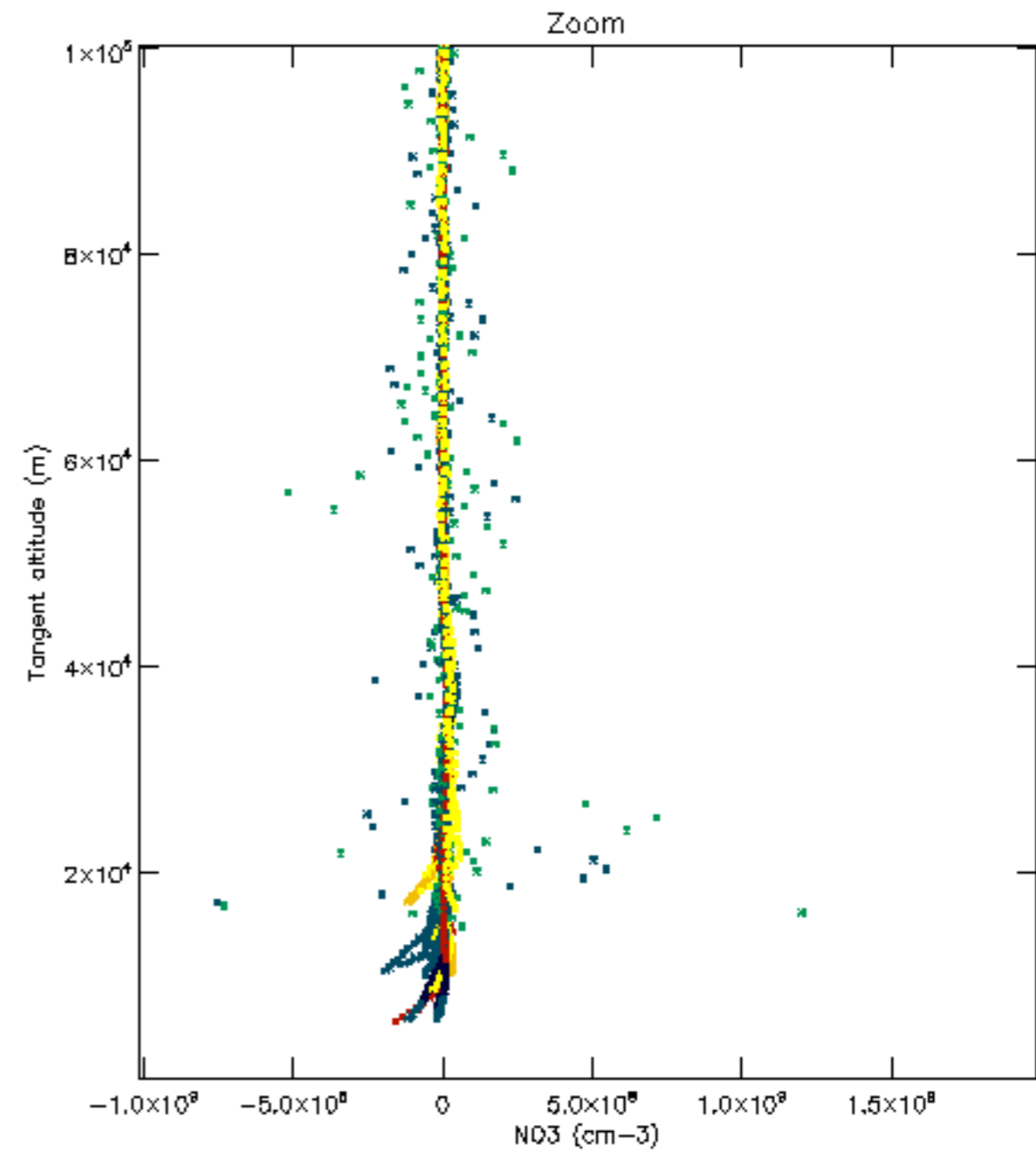
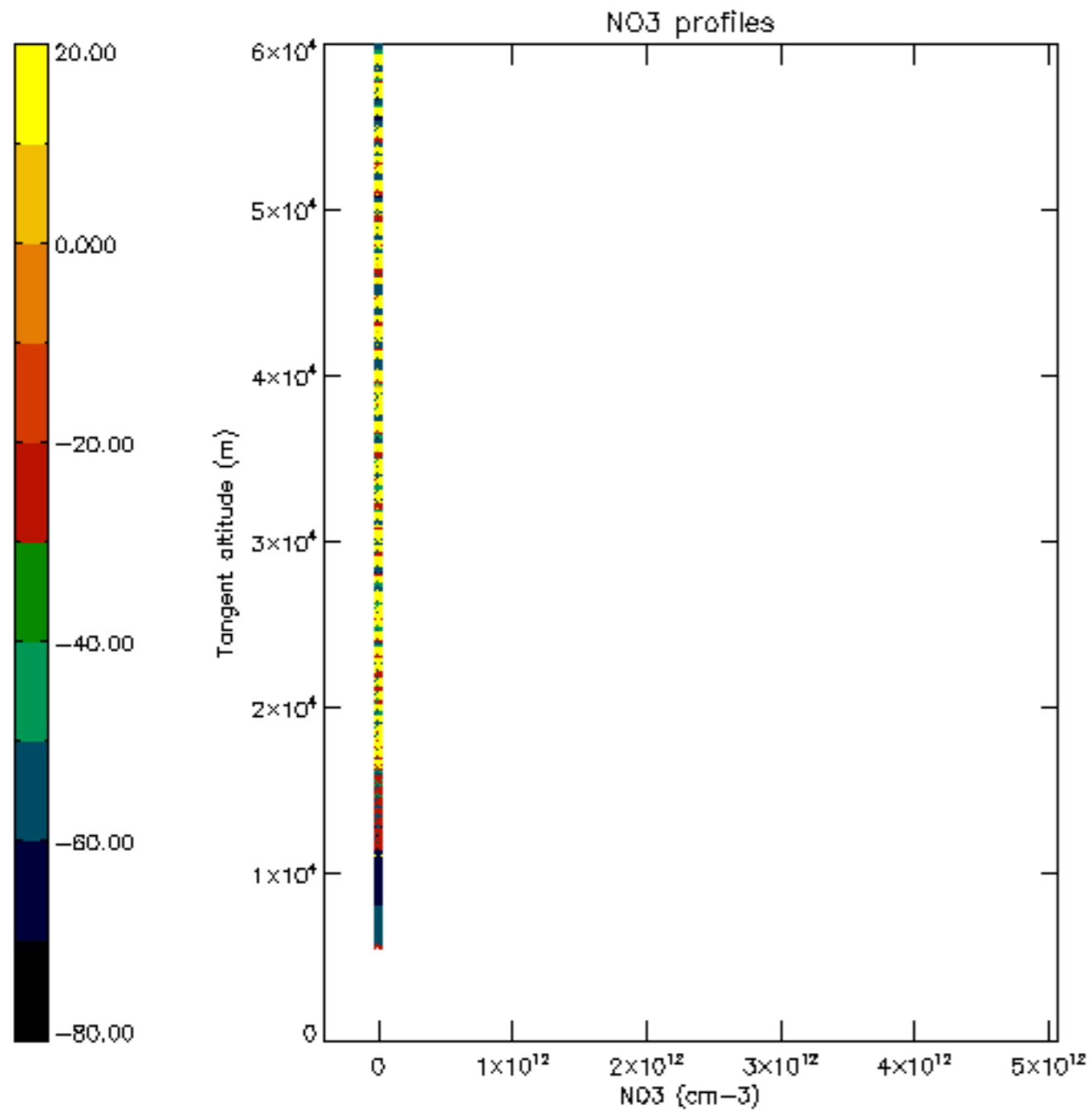


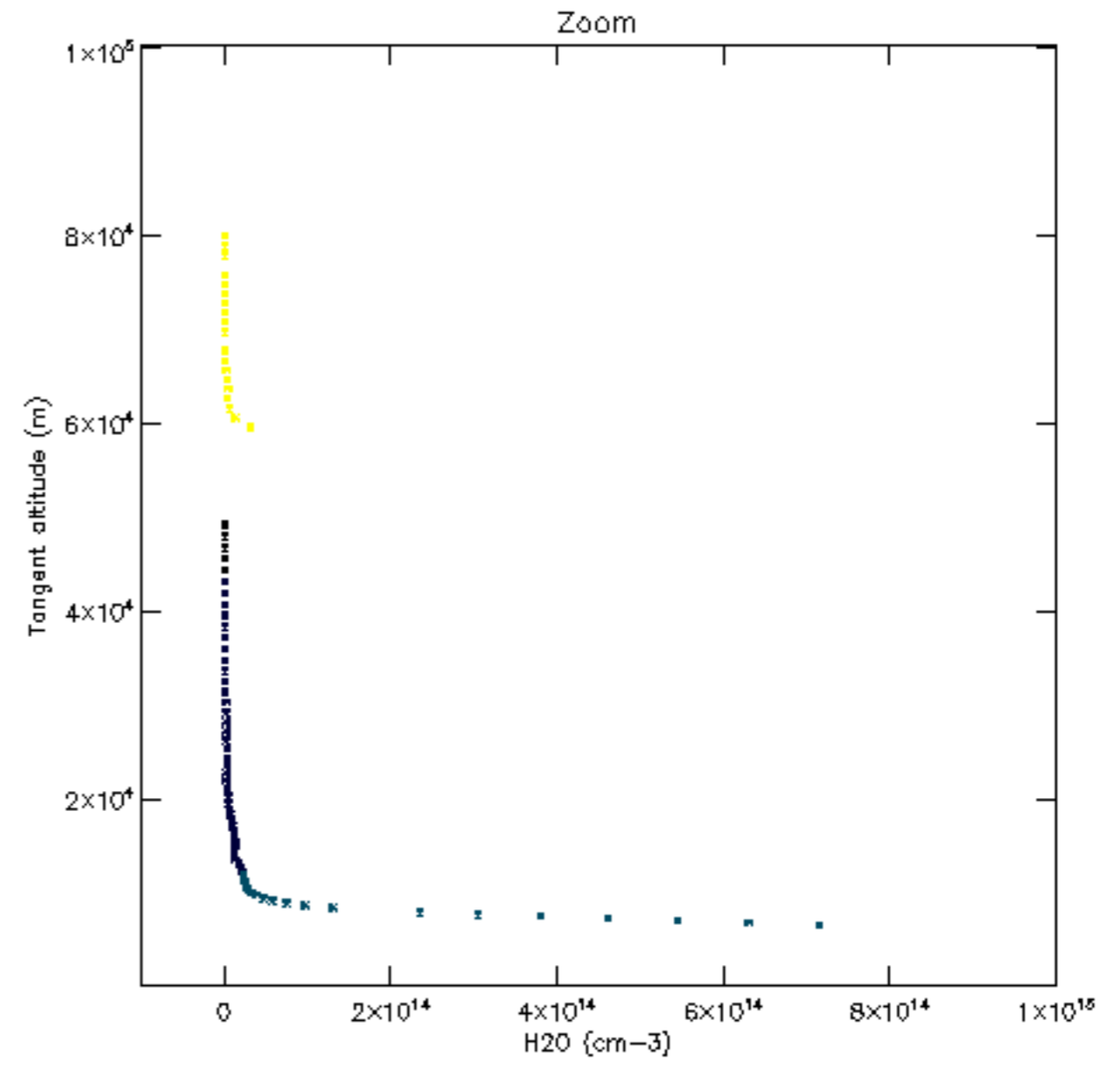
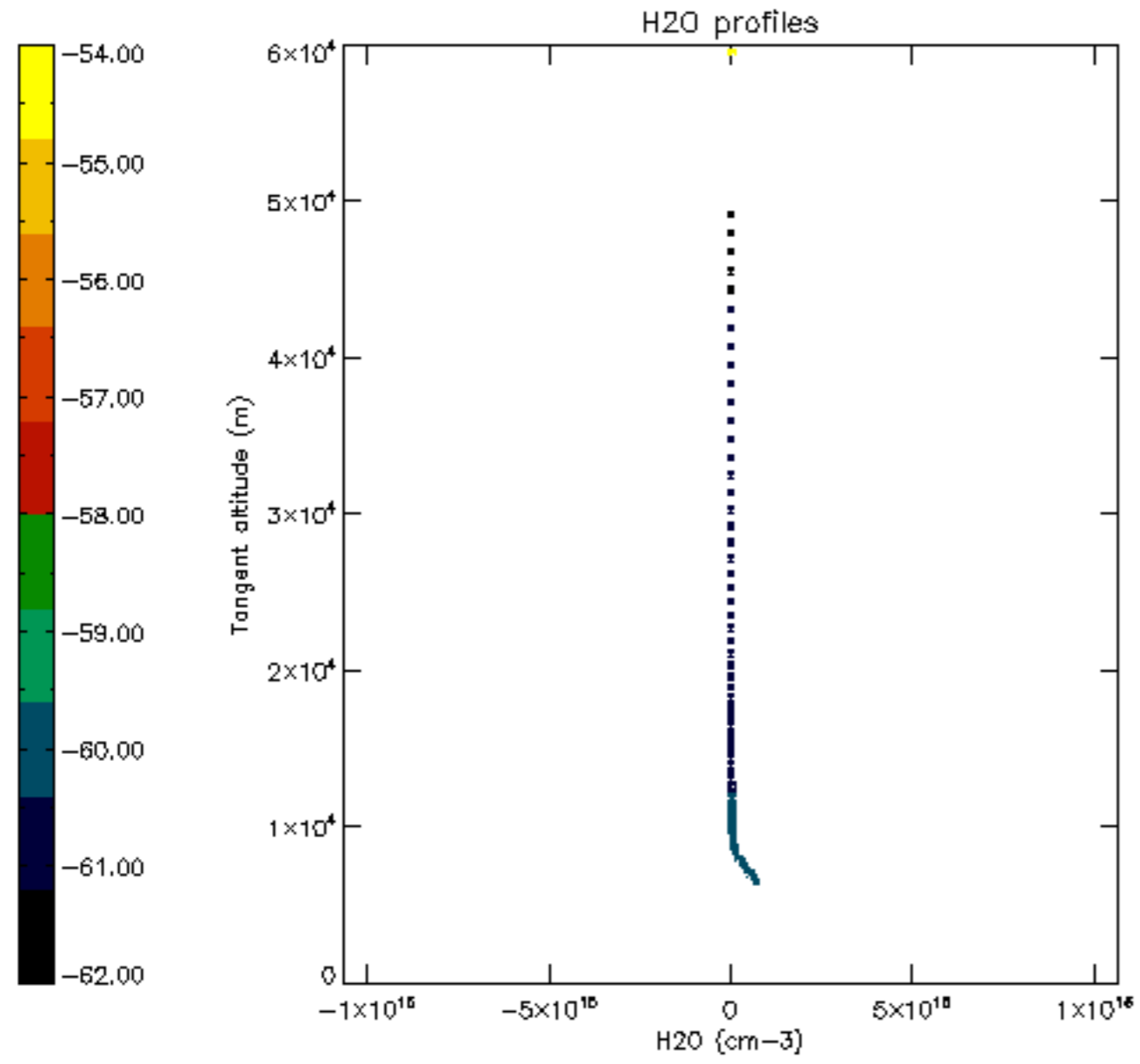


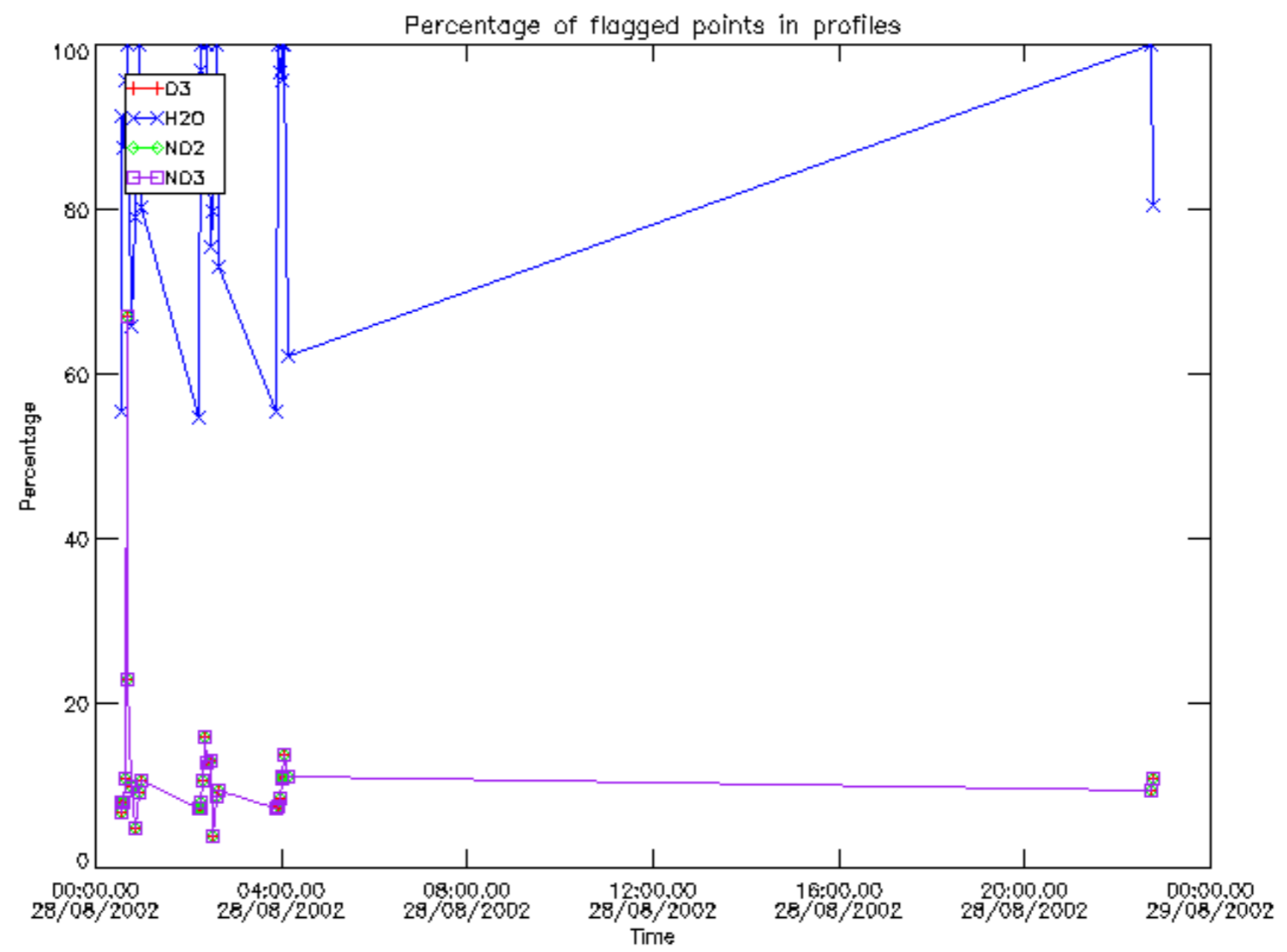




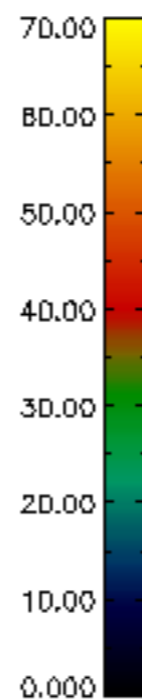
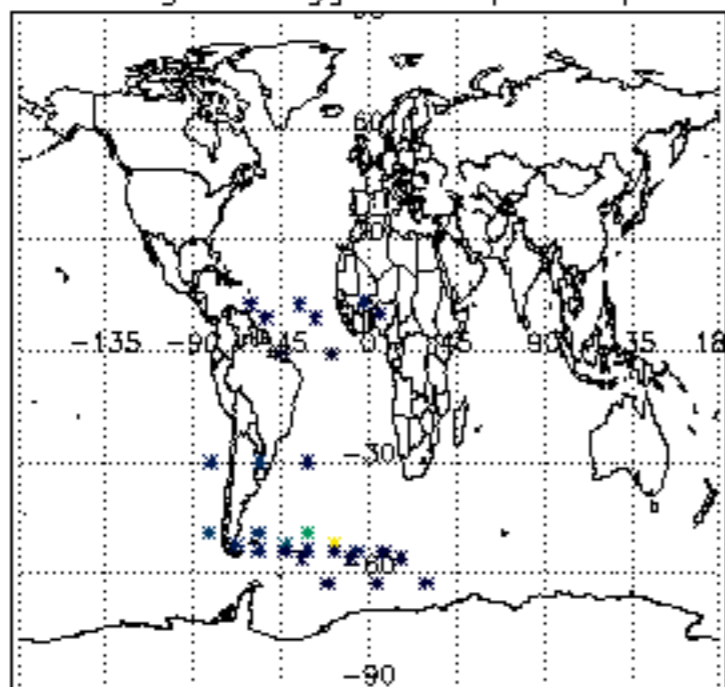




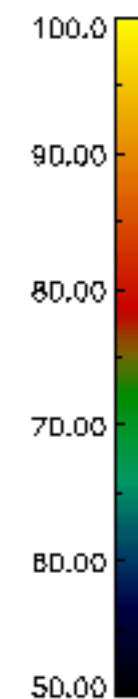
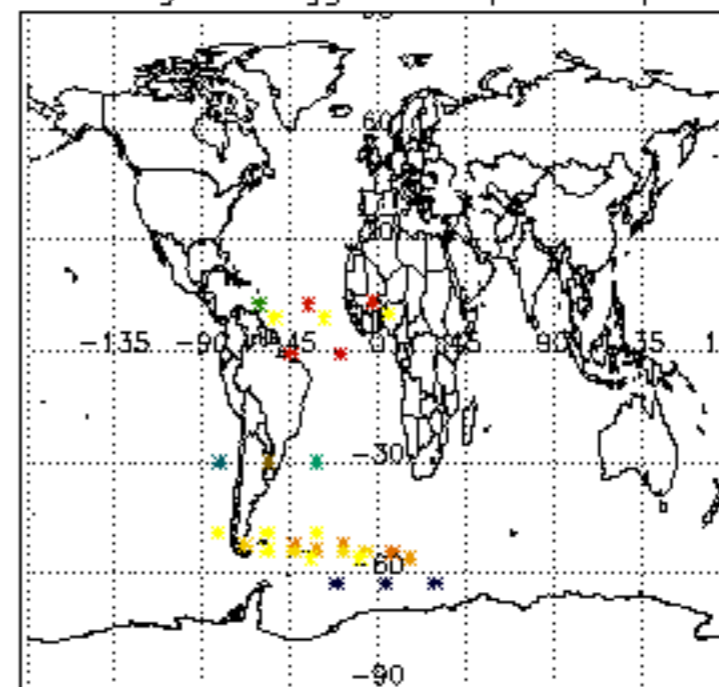




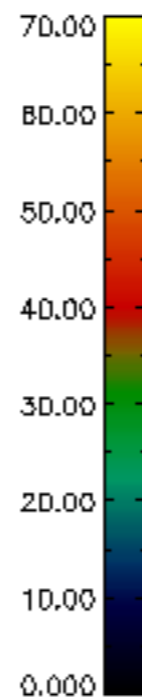
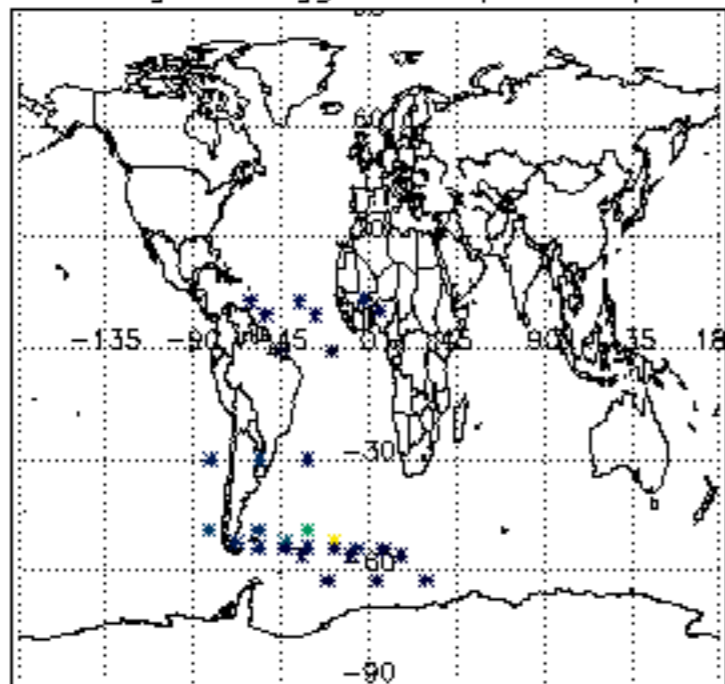
Percentage of flagged data per D3 profile



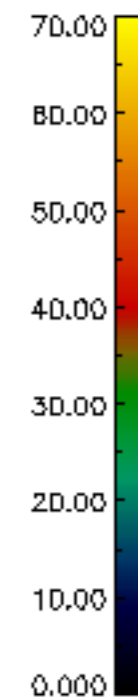
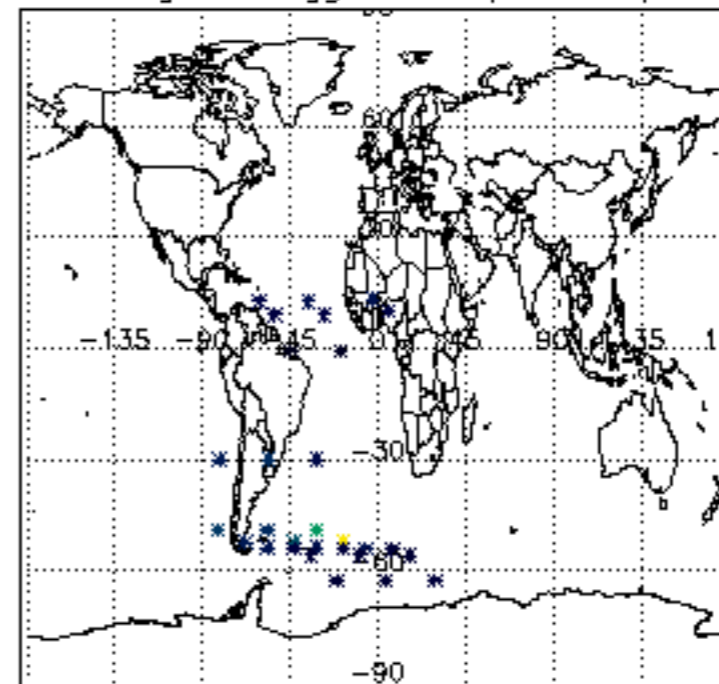
Percentage of flagged data per H2O profile

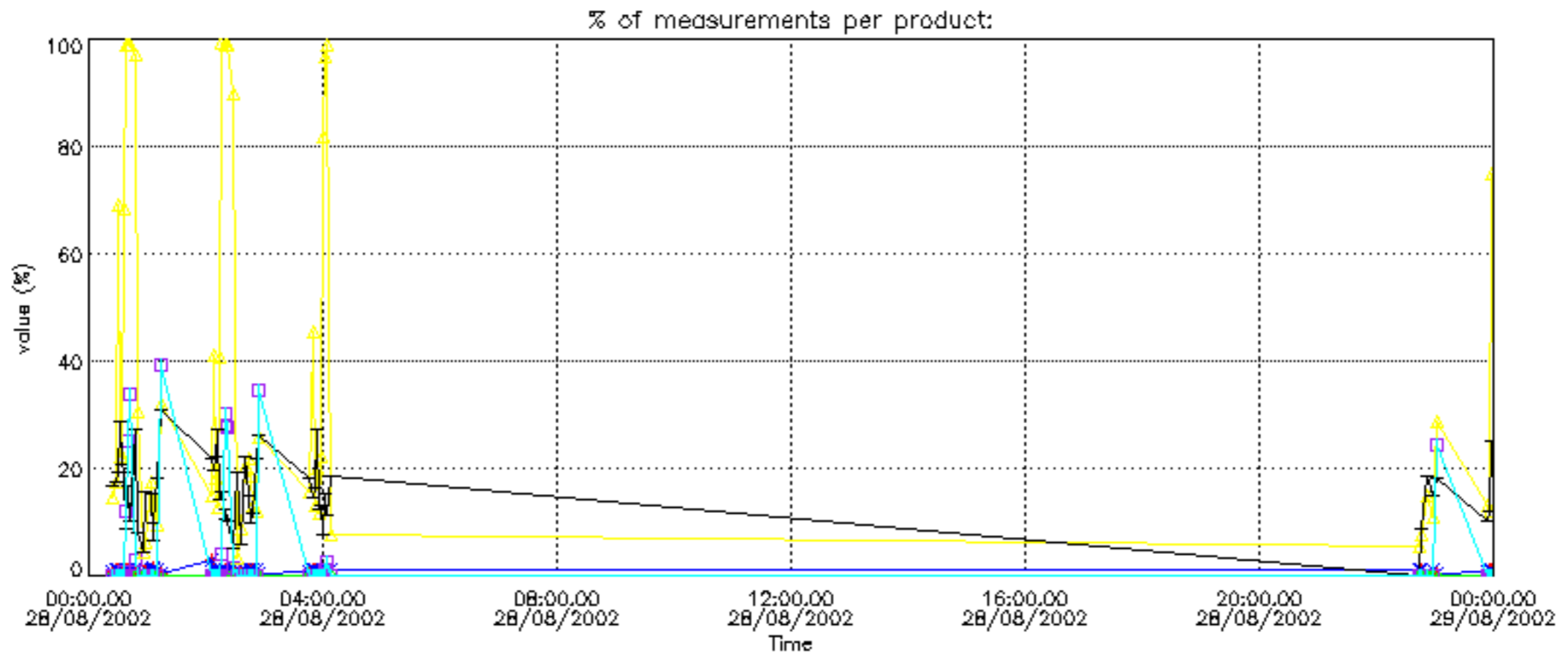


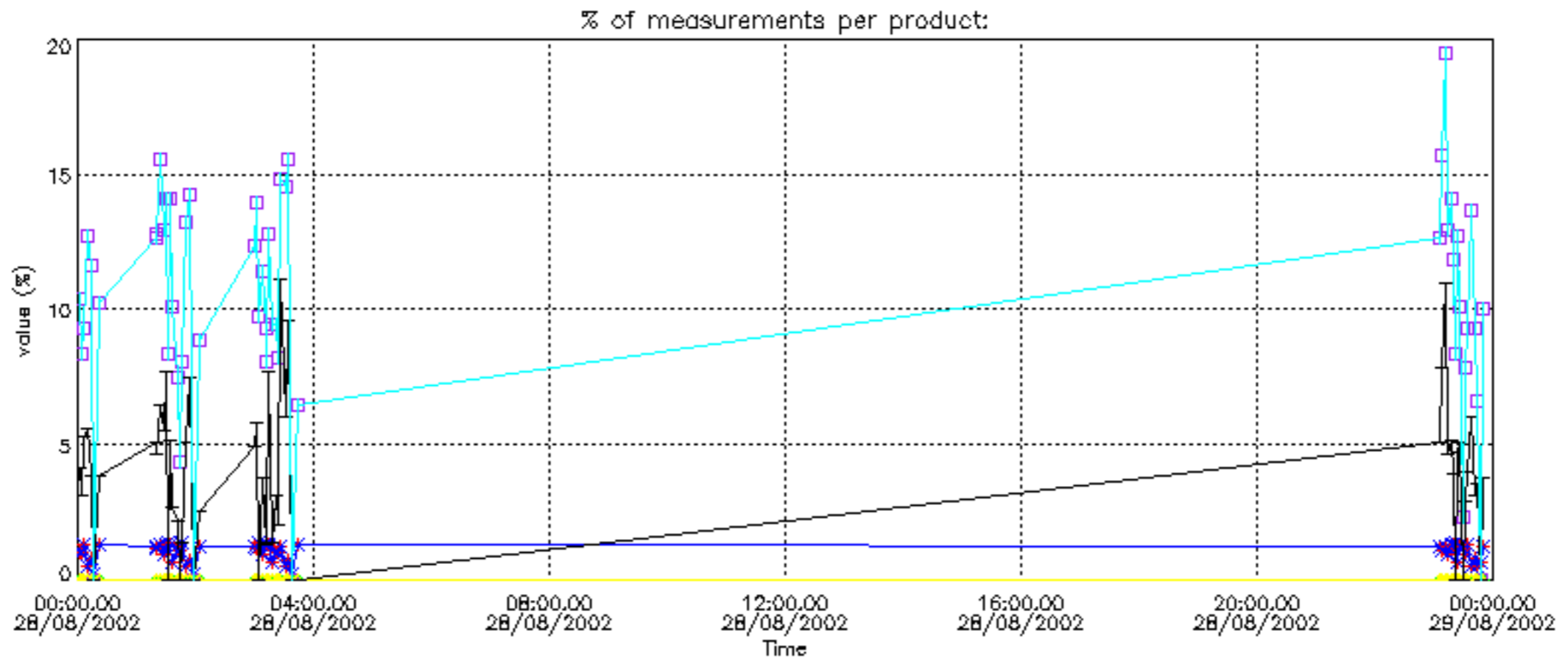
Percentage of flagged data per NO2 profile



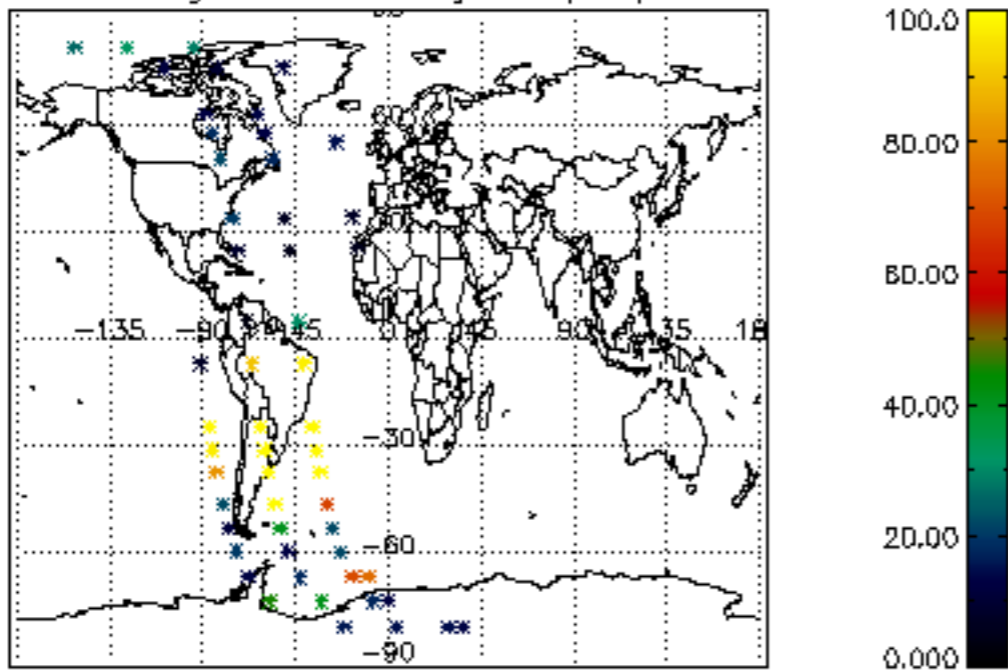
Percentage of flagged data per NO3 profile



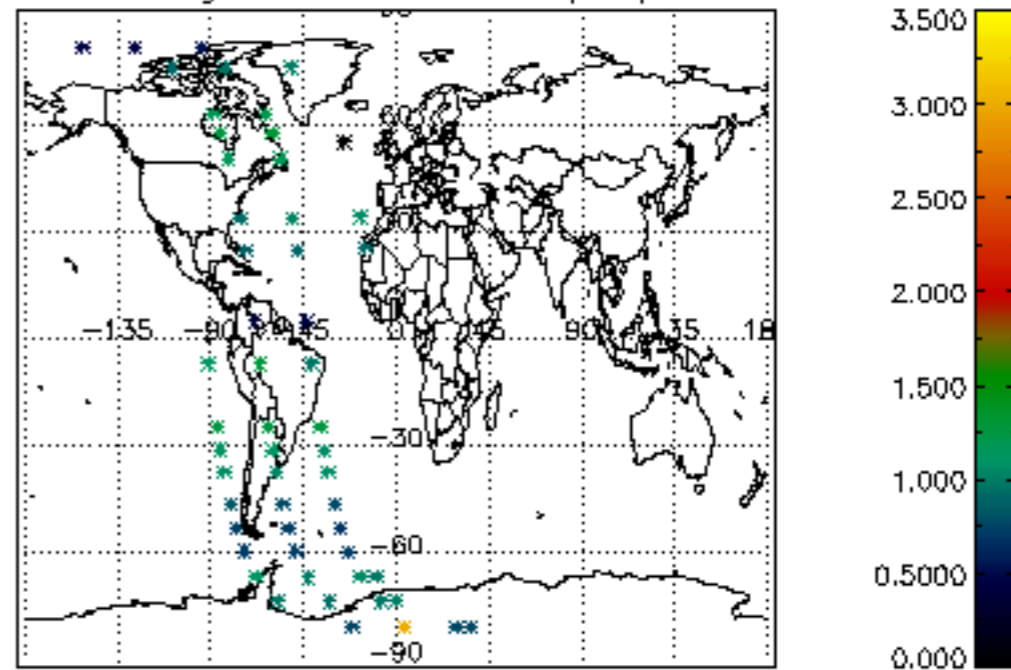




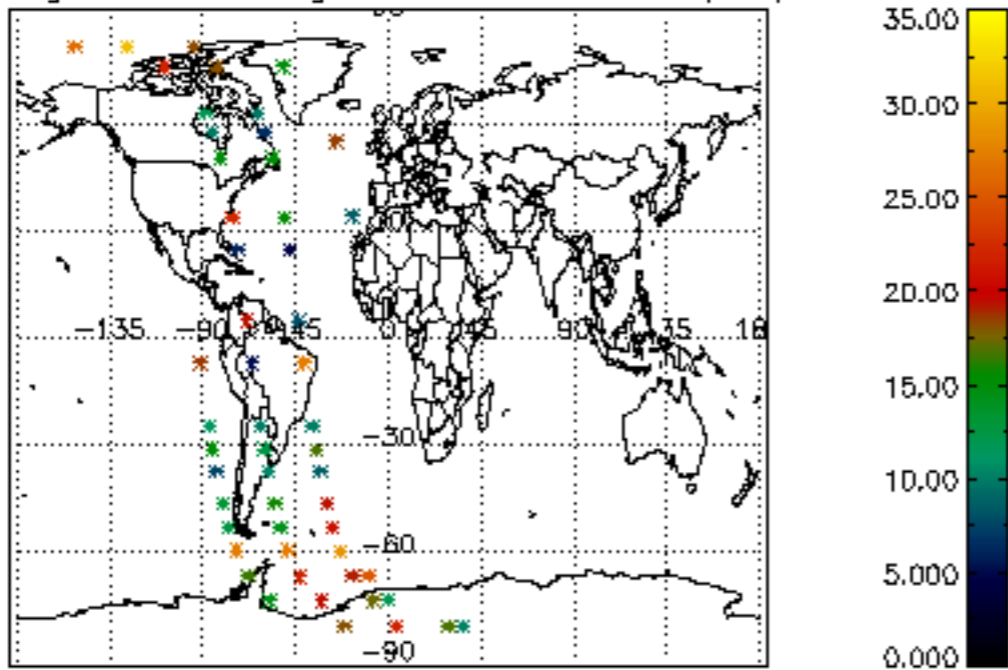
Percentage of cosmic ray hits per profile



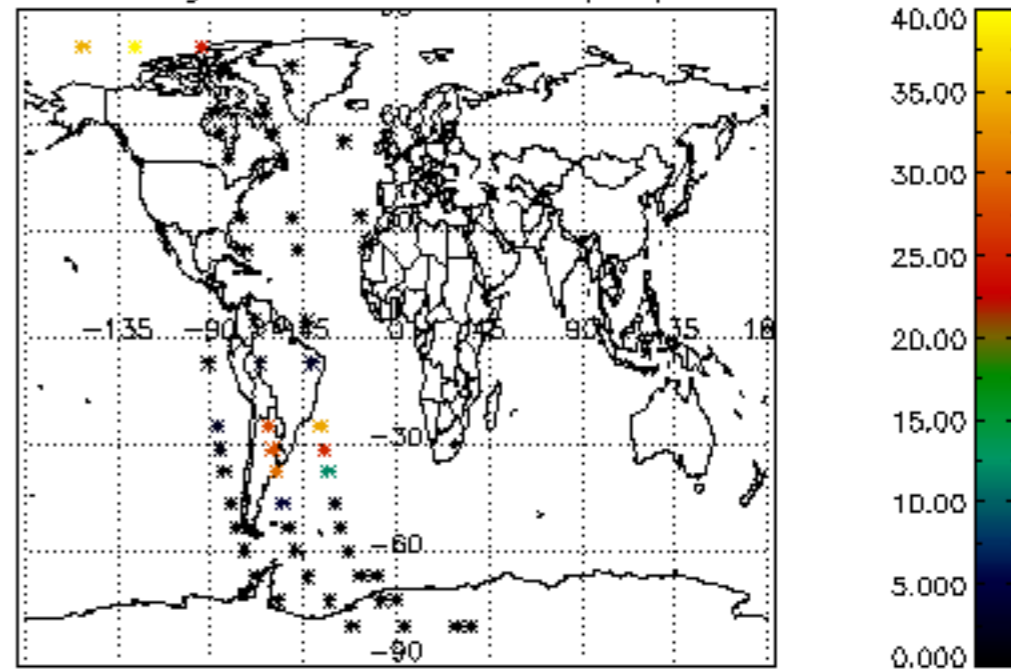
Percentage of datation errors per profile



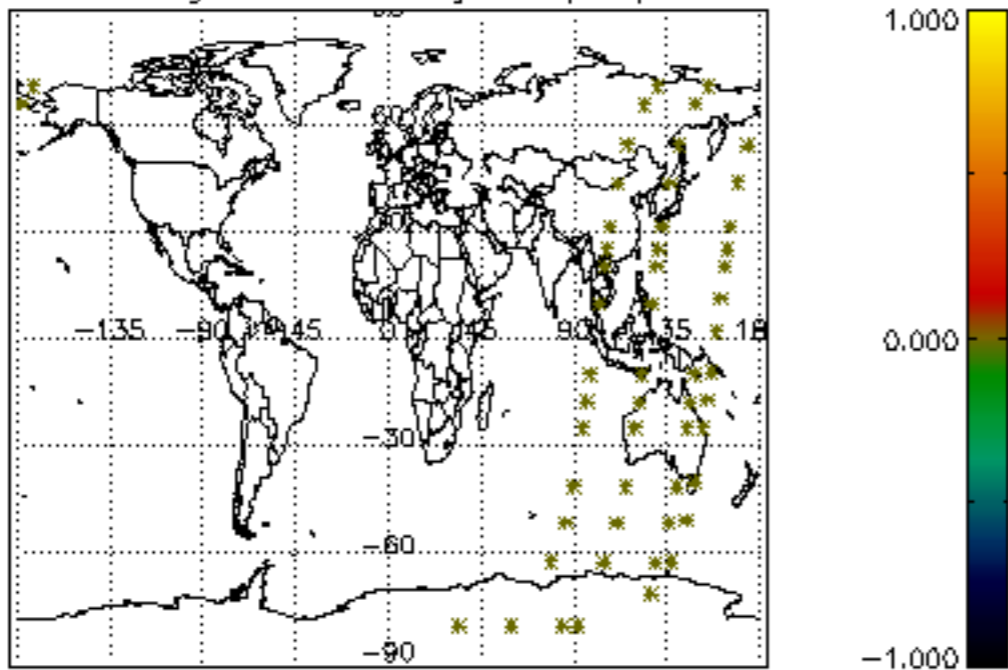
Percentage of star falling outside central band per profile



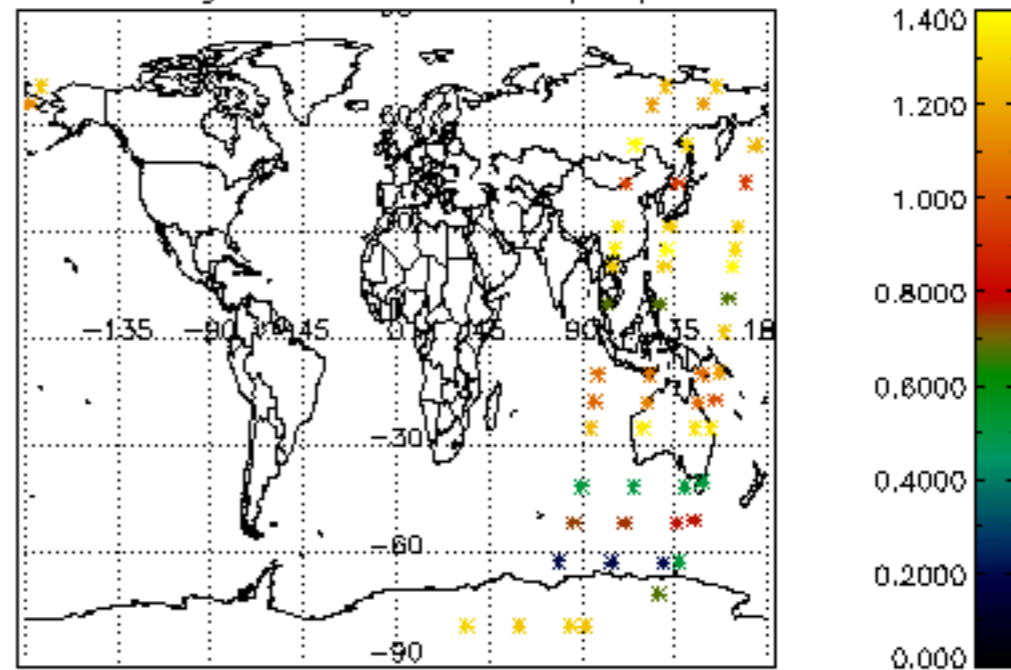
Percentage of saturation errors per profile



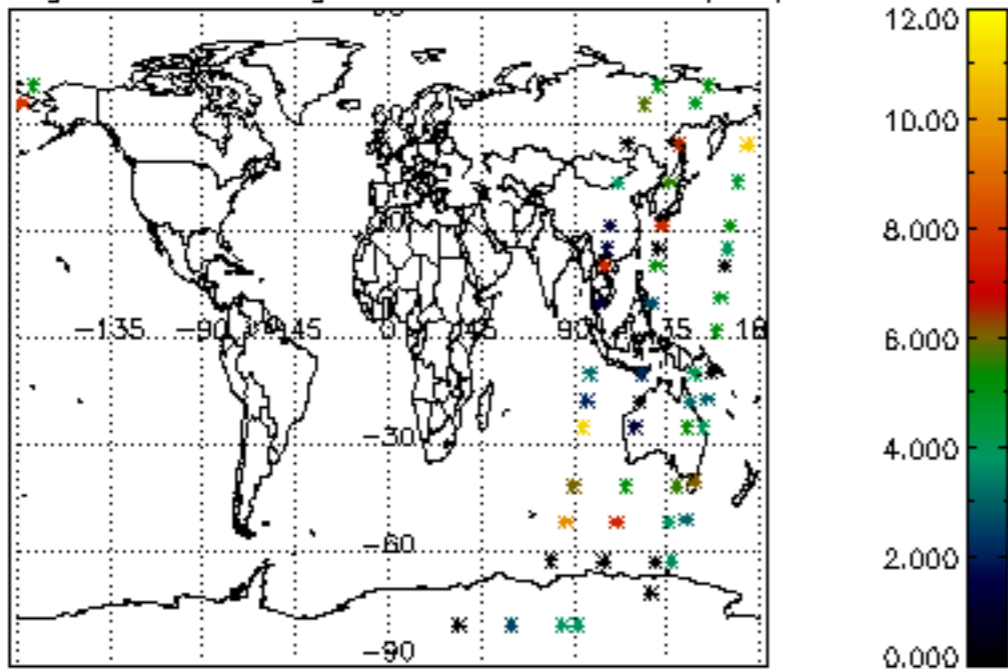
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

