

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 19:34:50
Data source version	GOMOS/6.01
Start time of products	20-10-2002 (20OCT2002 00:00:00)
Stop time of products	21-10-2002 (21OCT2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	122
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__2PRFIN20021020_012955_000000582010_00275_03335_9093.N1	20-OCT-2002 01:29:55	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	3335	No
2	GOM_NL__2PRFIN20021020_013251_000002252010_00275_03335_9094.N1	20-OCT-2002 01:32:51	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3335	No
3	GOM_NL__2PRFIN20021020_013837_000000502010_00275_03335_9095.N1	20-OCT-2002 01:38:37	Dark	49.500	9	Alp Eri	0.45300	24000.	99	3335	No
4	GOM_NL__2PRFIN20021020_014123_000000522010_00275_03335_9096.N1	20-OCT-2002 01:41:23	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	3335	No
5	GOM_NL__2PRFIN20021020_014333_000000442010_00275_03335_9097.N1	20-OCT-2002 01:43:33	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	3335	No
6	GOM_NL__2PRFIN20021020_015007_000000512010_00275_03335_9098.N1	20-OCT-2002 01:50:07	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3335	No
7	GOM_NL__2PRFIN20021020_015940_000000432010_00275_03335_9099.N1	20-OCT-2002 01:59:40	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	3335	No
8	GOM_NL__2PRFIN20021020_020212_000000532010_00275_03335_9100.N1	20-OCT-2002 02:02:12	Bright	53.000	105	6Bet Ari	2.6450	8900.0	106	3335	No
9	GOM_NL__2PRFIN20021020_020455_000000442010_00275_03335_9101.N1	20-OCT-2002 02:04:55	Bright	44.000	164	44Eta Peg	2.9480	5400.0	88	3335	No
10	GOM_NL__2PRFIN20021020_020705_000000512010_00275_03335_9102.N1	20-OCT-2002 02:07:05	Bright	51.000	173	4Bet Tri	3.0040	8900.0	102	3335	No
11	GOM_NL__2PRFIN20021020_020900_000000512010_00275_03335_9103.N1	20-OCT-2002 02:09:00	Bright	51.000	73	57Gam1And	2.2600	13100.	102	3335	No
12	GOM_NL__2PRFIN20021020_021128_000000432010_00275_03335_9104.N1	20-OCT-2002 02:11:28	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	3335	No
13	GOM_NL__2PRFIN20021020_021247_000000432010_00275_03335_9105.N1	20-OCT-2002 02:12:47	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	3335	No
14	GOM_NL__2PRFIN20021020_021448_000000442010_00275_03335_9106.N1	20-OCT-2002 02:14:48	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3335	No
15	GOM_NL__2PRFIN20021020_022036_000000422010_00275_03335_9107.N1	20-OCT-2002 02:20:36	Bright	42.000	49	1Alp UMi	1.9900	6300.0	84	3335	No
16	GOM_NL__2PRFIN20021020_022349_000000462010_00275_03335_9108.N1	20-OCT-2002 02:23:49	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3335	No
17	GOM_NL__2PRFIN20021020_022849_000000482010_00275_03335_9109.N1	20-OCT-2002 02:28:49	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	3335	No
18	GOM_NL__2PRFIN20021020_023023_000000262010_00275_03335_9110.N1	20-OCT-2002 02:30:23	Twilight_stray	26.000	82	48Bet UMa	2.3650	10600.	52	3335	No
19	GOM_NL__2PRFIN20021020_040111_000000412010_00276_03336_9190.N1	20-OCT-2002 04:01:11	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	3336	No
20	GOM_NL__2PRFIN20021020_040426_000000462010_00276_03336_9191.N1	20-OCT-2002 04:04:26	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3336	No
21	GOM_NL__2PRFIN20021020_040926_000000472010_00276_03336_9192.N1	20-OCT-2002 04:09:26	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3336	No
22	GOM_NL__2PRFIN20021020_041100_000000502010_00276_03336_9193.N1	20-OCT-2002 04:11:00	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	3336	No
23	GOM_NL__2PRFIN20021020_041427_000000432010_00276_03336_9194.N1	20-OCT-2002 04:14:27	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3336	No
24	GOM_NL__2PRFIN20021020_042235_000001472010_00276_03336_9195.N1	20-OCT-2002 04:22:35	Twilight_stray	147.00	17	78Bet Gem	1.1610	4500.0	294	3336	No
25	GOM_NL__2PRFIN20021020_043243_000000662010_00276_03336_9196.N1	20-OCT-2002 04:32:43	Dark	65.500	48	30Alp Hya	1.9770	4100.0	131	3336	No
26	GOM_NL__2PRFIN20021020_044012_000002522010_00276_03336_9197.N1	20-OCT-2002 04:40:12	Dark	252.00	8	10Alp CMi	0.40000	6500.0	504	3336	No
27	GOM_NL__2PRFIN20021020_044529_000000532010_00277_03337_9198.N1	20-OCT-2002 04:45:29	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	3337	No
28	GOM_NL__2PRFIN20021020_045108_000000572010_00277_03337_9199.N1	20-OCT-2002 04:51:08	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	3337	No
29	GOM_NL__2PRFIN20021020_045411_000002252010_00277_03337_9200.N1	20-OCT-2002 04:54:11	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3337	No
30	GOM_NL__2PRFIN20021020_045949_000000522010_00277_03337_9201.N1	20-OCT-2002 04:59:49	Dark	52.000	9	Alp Eri	0.45300	24000.	104	3337	No
31	GOM_NL__2PRFIN20021020_050235_000000542010_00277_03337_9202.N1	20-OCT-2002 05:02:35	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	3337	No
32	GOM_NL__2PRFIN20021020_050445_000000462010_00277_03337_9203.N1	20-OCT-2002 05:04:45	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	3337	No
33	GOM_NL__2PRFIN20021020_051119_000000492010_00277_03337_9204.N1	20-OCT-2002 05:11:19	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	3337	No
34	GOM_NL__2PRFIN20021020_052052_000000432010_00277_03337_9205.N1	20-OCT-2002 05:20:52	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	3337	No
35	GOM_NL__2PRFIN20021020_052323_000000532010_00277_03337_9206.N1	20-OCT-2002 05:23:23	Bright	52.500	105	6Bet Ari	2.6450	8900.0	105	3337	No
36	GOM_NL__2PRFIN20021020_052608_000000452010_00277_03337_9207.N1	20-OCT-2002 05:26:08	Bright	45.000	164	44Eta Peg	2.9480	5400.0	90	3337	No
37	GOM_NL__2PRFIN20021020_052815_000000532010_00277_03337_9208.N1	20-OCT-2002 05:28:15	Bright	53.000	173	4Bet Tri	3.0040	8900.0	106	3337	No
38	GOM_NL__2PRFIN20021020_053011_000000532010_00277_03337_9209.N1	20-OCT-2002 05:30:11	Bright	52.500	73	57Gam1And	2.2600	13100.	105	3337	No
39	GOM_NL__2PRFIN20021020_053239_000000462010_00277_03337_9210.N1	20-OCT-2002 05:32:39	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	3337	No
40	GOM_NL__2PRFIN20021020_053358_000000462010_00277_03337_9211.N1	20-OCT-2002 05:33:58	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	3337	No
41	GOM_NL__2PRFIN20021020_053600_000000442010_00277_03337_9212.N1	20-OCT-2002 05:36:00	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	3337	No
42	GOM_NL__2PRFIN20021020_054148_000000172010_00277_03337_9213.N1	20-OCT-2002 05:41:48	Straylight	17.000	49	1Alp UMi	1.9900	6300.0	34	3337	No

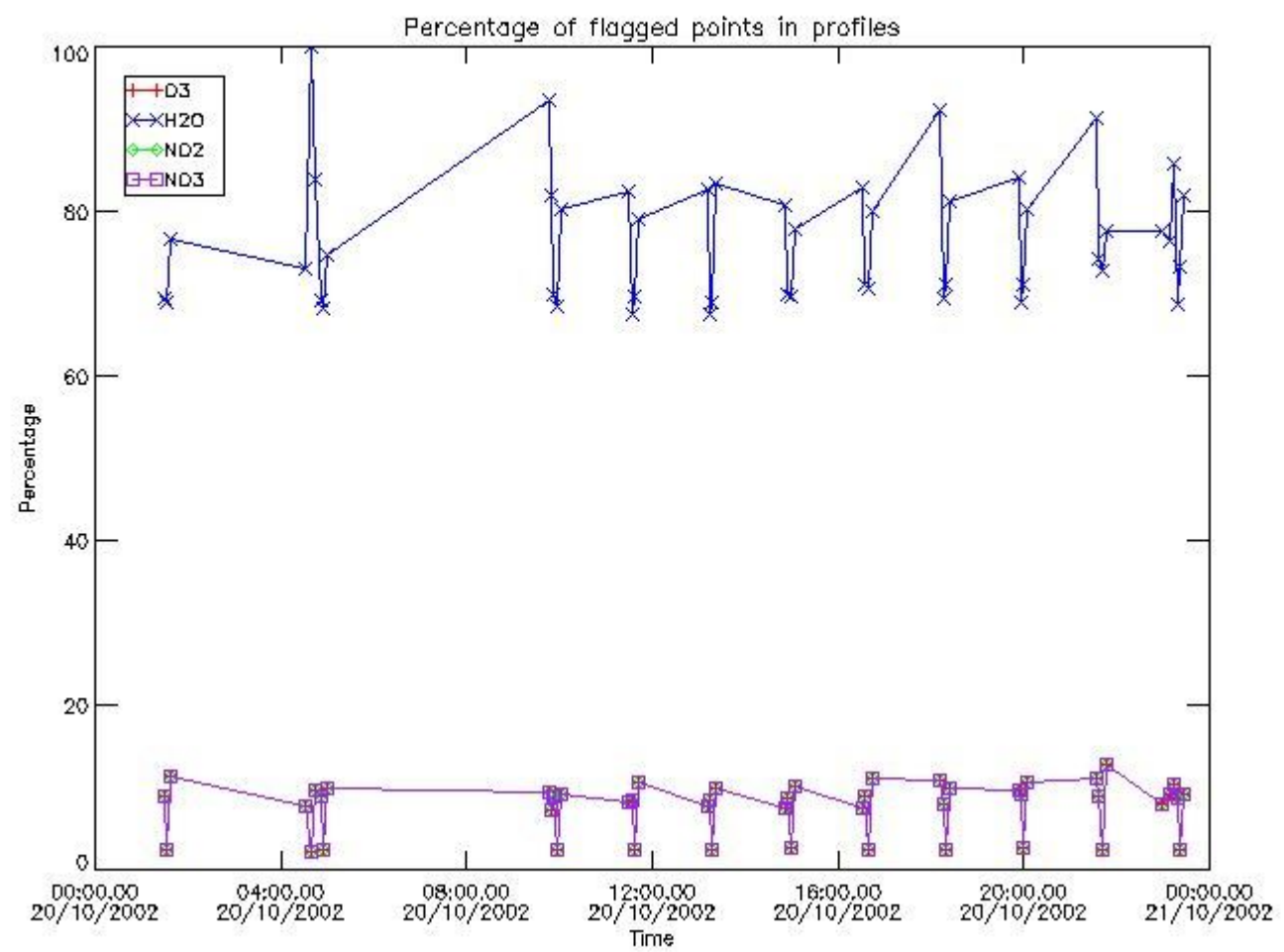
43	GOM_NL__2PRFIN20021020_094720_000000552010_00280_03340_9131.N1	20-OCT-2002 09:47:20	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	3340	No
44	GOM_NL__2PRFIN20021020_094941_000000702010_00280_03340_9132.N1	20-OCT-2002 09:49:41	Dark	69.500	117	Pi Pup	2.7060	3800.0	139	3340	No
45	GOM_NL__2PRFIN20021020_095258_000000572010_00280_03340_9133.N1	20-OCT-2002 09:52:58	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	3340	No
46	GOM_NL__2PRFIN20021020_095609_000002252010_00280_03340_9134.N1	20-OCT-2002 09:56:09	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3340	No
47	GOM_NL__2PRFIN20021020_100138_000000562010_00280_03340_9135.N1	20-OCT-2002 10:01:38	Dark	56.000	9	Alp Eri	0.45300	24000.	112	3340	No
48	GOM_NL__2PRFIN20021020_100424_000000542010_00280_03340_9136.N1	20-OCT-2002 10:04:24	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	3340	No
49	GOM_NL__2PRFIN20021020_100634_000000472010_00280_03340_9137.N1	20-OCT-2002 10:06:34	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	3340	No
50	GOM_NL__2PRFIN20021020_101307_000000502010_00280_03340_9138.N1	20-OCT-2002 10:13:07	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	3340	No
51	GOM_NL__2PRFIN20021020_113018_000000692010_00281_03341_9131.N1	20-OCT-2002 11:30:18	Dark	68.500	117	Pi Pup	2.7060	3800.0	137	3341	No
52	GOM_NL__2PRFIN20021020_113335_000000612010_00281_03341_9132.N1	20-OCT-2002 11:33:35	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3341	No
53	GOM_NL__2PRFIN20021020_113649_000002252010_00281_03341_9133.N1	20-OCT-2002 11:36:49	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3341	No
54	GOM_NL__2PRFIN20021020_114214_000000482010_00281_03341_9134.N1	20-OCT-2002 11:42:14	Dark	48.000	9	Alp Eri	0.45300	24000.	96	3341	No
55	GOM_NL__2PRFIN20021020_114501_000000512010_00281_03341_9135.N1	20-OCT-2002 11:45:01	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	3341	No
56	GOM_NL__2PRFIN20021020_114710_000000482010_00281_03341_9136.N1	20-OCT-2002 11:47:10	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	3341	No
57	GOM_NL__2PRFIN20021020_131056_000000672010_00282_03342_9131.N1	20-OCT-2002 13:10:56	Dark	66.500	117	Pi Pup	2.7060	3800.0	133	3342	No
58	GOM_NL__2PRFIN20021020_131413_000000612010_00282_03342_9132.N1	20-OCT-2002 13:14:13	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3342	No
59	GOM_NL__2PRFIN20021020_131729_000002252010_00282_03342_9133.N1	20-OCT-2002 13:17:29	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3342	No
60	GOM_NL__2PRFIN20021020_132251_000000522010_00282_03342_9134.N1	20-OCT-2002 13:22:51	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3342	No
61	GOM_NL__2PRFIN20021020_132538_000000532010_00282_03342_9135.N1	20-OCT-2002 13:25:38	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	3342	No
62	GOM_NL__2PRFIN20021020_132746_000000512010_00282_03342_9136.N1	20-OCT-2002 13:27:46	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	3342	No
63	GOM_NL__2PRFIN20021020_145131_000000682010_00283_03343_9131.N1	20-OCT-2002 14:51:31	Dark	67.500	117	Pi Pup	2.7060	3800.0	135	3343	No
64	GOM_NL__2PRFIN20021020_145448_000000592010_00283_03343_9132.N1	20-OCT-2002 14:54:48	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	3343	No
65	GOM_NL__2PRFIN20021020_145809_000002252010_00283_03343_9133.N1	20-OCT-2002 14:58:09	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3343	No
66	GOM_NL__2PRFIN20021020_150326_000000502010_00283_03343_9134.N1	20-OCT-2002 15:03:26	Dark	50.000	9	Alp Eri	0.45300	24000.	100	3343	No
67	GOM_NL__2PRFIN20021020_150613_000000552010_00283_03343_9135.N1	20-OCT-2002 15:06:13	Straylight	55.000	157	The1Eri	2.9060	9300.0	110	3343	No
68	GOM_NL__2PRFIN20021020_150822_000000502010_00283_03343_9136.N1	20-OCT-2002 15:08:22	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	3343	No
69	GOM_NL__2PRFIN20021020_163208_000000682010_00284_03344_9151.N1	20-OCT-2002 16:32:08	Dark	68.000	117	Pi Pup	2.7060	3800.0	136	3344	No
70	GOM_NL__2PRFIN20021020_163524_000000582010_00284_03344_9152.N1	20-OCT-2002 16:35:24	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	3344	No
71	GOM_NL__2PRFIN20021020_163849_000002252010_00284_03344_9153.N1	20-OCT-2002 16:38:49	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3344	No
72	GOM_NL__2PRFIN20021020_164402_000000462010_00284_03344_9154.N1	20-OCT-2002 16:44:02	Dark	45.500	9	Alp Eri	0.45300	24000.	91	3344	No
73	GOM_NL__2PRFIN20021020_164649_000000562010_00284_03344_9155.N1	20-OCT-2002 16:46:49	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	3344	No
74	GOM_NL__2PRFIN20021020_164858_000000472010_00284_03344_9156.N1	20-OCT-2002 16:48:58	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	3344	No
75	GOM_NL__2PRFIN20021020_181210_000000472010_00285_03345_9151.N1	20-OCT-2002 18:12:10	Dark	46.500	29	Bet Car	1.6720	10200.	93	3345	No
76	GOM_NL__2PRFIN20021020_181602_000000642010_00285_03345_9152.N1	20-OCT-2002 18:16:02	Dark	64.000	2	Alp Car	-0.73600	7000.0	128	3345	No
77	GOM_NL__2PRFIN20021020_181928_000002242010_00285_03345_9153.N1	20-OCT-2002 18:19:28	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3345	No
78	GOM_NL__2PRFIN20021020_182439_000000572010_00285_03345_9154.N1	20-OCT-2002 18:24:39	Dark	56.500	9	Alp Eri	0.45300	24000.	113	3345	No
79	GOM_NL__2PRFIN20021020_182726_000000522010_00285_03345_9155.N1	20-OCT-2002 18:27:26	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	3345	No
80	GOM_NL__2PRFIN20021020_182934_000000502010_00285_03345_9156.N1	20-OCT-2002 18:29:34	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3345	No
81	GOM_NL__2PRFIN20021020_195246_000000542010_00286_03346_9151.N1	20-OCT-2002 19:52:46	Dark	53.500	29	Bet Car	1.6720	10200.	107	3346	No
82	GOM_NL__2PRFIN20021020_195638_000000622010_00286_03346_9152.N1	20-OCT-2002 19:56:38	Dark	61.500	2	Alp Car	-0.73600	7000.0	123	3346	No
83	GOM_NL__2PRFIN20021020_200008_000002242010_00286_03346_9153.N1	20-OCT-2002 20:00:08	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3346	No
84	GOM_NL__2PRFIN20021020_200515_000000492010_00286_03346_9154.N1	20-OCT-2002 20:05:15	Dark	48.500	9	Alp Eri	0.45300	24000.	97	3346	No
85	GOM_NL__2PRFIN20021020_200802_000000522010_00286_03346_9155.N1	20-OCT-2002 20:08:02	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	3346	No
86	GOM_NL__2PRFIN20021020_201010_000000502010_00286_03346_9156.N1	20-OCT-2002 20:10:10	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3346	No
87	GOM_NL__2PRFIN20021020_213322_000000462010_00287_03347_9151.N1	20-OCT-2002 21:33:22	Dark	46.000	29	Bet Car	1.6720	10200.	92	3347	No
88	GOM_NL__2PRFIN20021020_213715_000000572010_00287_03347_9152.N1	20-OCT-2002 21:37:15	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	3347	No
89	GOM_NL__2PRFIN20021020_214048_000002242010_00287_03347_9153.N1	20-OCT-2002 21:40:48	Dark	223.50	1	9Alp CMa	-1.4400	11000.	447	3347	No
90	GOM_NL__2PRFIN20021020_214551_000000522010_00287_03347_2791.N1	20-OCT-2002 21:45:51	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3347	No
91	GOM_NL__2PRFIN20021020_214839_000000522010_00287_03347_2792.N1	20-OCT-2002 21:48:39	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	3347	No
92	GOM_NL__2PRFIN20021020_215047_000000502010_00287_03347_2793.N1	20-OCT-2002 21:50:47	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3347	No
93	GOM_NL__2PRFIN20021020_215719_000000492010_00287_03347_2794.N1	20-OCT-2002 21:57:19	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	3347	No
94	GOM_NL__2PRFIN20021020_220652_000000442010_00287_03347_2795.N1	20-OCT-2002 22:06:52	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3347	No
95	GOM_NL__2PRFIN20021020_220918_000000522010_00287_03347_2796.N1	20-OCT-2002 22:09:18	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	3347	No
96	GOM_NL__2PRFIN20021020_221111_000000442010_00287_03347_2797.N1	20-OCT-2002 22:11:11	Bright	44.000	93	53Bet Peg	2.5200	3100.0	88	3347	No
97	GOM_NL__2PRFIN20021020_221256_000000482010_00287_03347_2798.N1	20-OCT-2002 22:12:56	Bright	47.500	53	43Bet And	2.0480	3300.0	95	3347	No
98	GOM_NL__2PRFIN20021020_221605_000000492010_00287_03347_2799.N1	20-OCT-2002 22:16:05	Bright	49.000	73	57Gam1And	2.2600	13100.	98	3347	No
99	GOM_NL__2PRFIN20021020_221837_000000472010_00287_03347_2800.N1	20-OCT-2002 22:18:37	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	3347	No
100	GOM_NL__2PRFIN20021020_221956_000000452010_00287_03347_2801.N1	20-OCT-2002 22:19:56	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	3347	No
101	GOM_NL__2PRFIN20021020_222203_000000442010_00287_03347_2802.N1	20-OCT-2002 22:22:03	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3347	No

102	GOM_NL__2PRFIN20021020_222747_000000452010_00287_03347_2803.N1	20-OCT-2002 22:27:47	Bright	45.000	49	1Alp UMi	1.9900	6300.0	90	3347	No
103	GOM_NL__2PRFIN20021020_223104_000000402010_00287_03347_2804.N1	20-OCT-2002 22:31:04	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	3347	No
104	GOM_NL__2PRFIN20021020_223601_000000442010_00287_03347_2805.N1	20-OCT-2002 22:36:01	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	3347	No
105	GOM_NL__2PRFIN20021020_223735_000000452010_00287_03347_2806.N1	20-OCT-2002 22:37:35	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	3347	No
106	GOM_NL__2PRFIN20021020_224102_000000462010_00287_03347_2807.N1	20-OCT-2002 22:41:02	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	3347	No
107	GOM_NL__2PRFIN20021020_224918_000001562010_00287_03347_2808.N1	20-OCT-2002 22:49:18	Twilight	156.00	17	78Bet Gem	1.1610	4500.0	312	3347	No
108	GOM_NL__2PRFIN20021020_225927_000000652010_00287_03347_2809.N1	20-OCT-2002 22:59:27	Dark	65.000	48	30Alp Hya	1.9770	4100.0	130	3347	No
109	GOM_NL__2PRFIN20021020_230853_000000562010_00287_03347_2810.N1	20-OCT-2002 23:08:53	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	3347	No
110	GOM_NL__2PRFIN20021020_231358_000000502010_00288_03348_2790.N1	20-OCT-2002 23:13:58	Dark	49.500	29	Bet Car	1.6720	10200.	99	3348	No
111	GOM_NL__2PRFIN20021020_231752_000000602010_00288_03348_2791.N1	20-OCT-2002 23:17:52	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	3348	No
112	GOM_NL__2PRFIN20021020_232128_000002242010_00288_03348_2792.N1	20-OCT-2002 23:21:28	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3348	No
113	GOM_NL__2PRFIN20021020_232627_000000562010_00288_03348_2793.N1	20-OCT-2002 23:26:27	Dark	56.000	9	Alp Eri	0.45300	24000.	112	3348	No
114	GOM_NL__2PRFIN20021020_232915_000000572010_00288_03348_2794.N1	20-OCT-2002 23:29:15	Straylight	56.500	157	The1Eri	2.9060	9300.0	113	3348	No
115	GOM_NL__2PRFIN20021020_233123_000000492010_00288_03348_2795.N1	20-OCT-2002 23:31:23	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	3348	No
116	GOM_NL__2PRFIN20021020_233756_000000512010_00288_03348_2796.N1	20-OCT-2002 23:37:56	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3348	No
117	GOM_NL__2PRFIN20021020_234728_000000442010_00288_03348_2797.N1	20-OCT-2002 23:47:28	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	3348	No
118	GOM_NL__2PRFIN20021020_234954_000000522010_00288_03348_2798.N1	20-OCT-2002 23:49:54	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	3348	No
119	GOM_NL__2PRFIN20021020_235148_000000452010_00288_03348_2799.N1	20-OCT-2002 23:51:48	Bright	45.000	93	53Bet Peg	2.5200	3100.0	90	3348	No
120	GOM_NL__2PRFIN20021020_235332_000000492010_00288_03348_2800.N1	20-OCT-2002 23:53:32	Bright	48.500	53	43Bet And	2.0480	3300.0	97	3348	No
121	GOM_NL__2PRFIN20021020_235641_000000492010_00288_03348_2801.N1	20-OCT-2002 23:56:41	Bright	49.000	73	57Gam1And	2.2600	13100.	98	3348	No
122	GOM_NL__2PRFIN20021020_235913_000000442010_00288_03348_2802.N1	20-OCT-2002 23:59:13	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	3348	No

3. Quality information per product

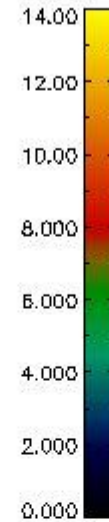
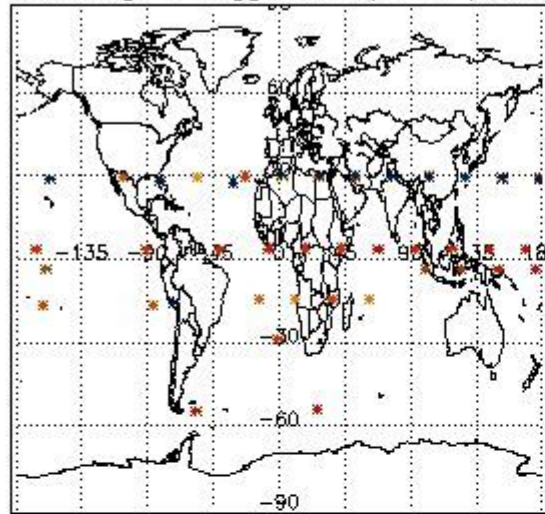
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

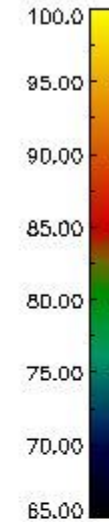
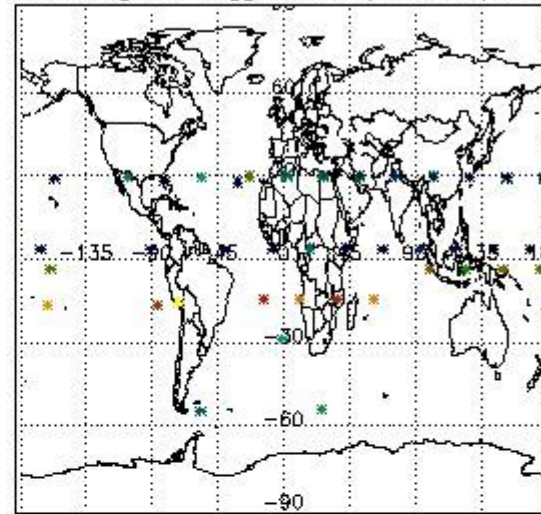


3.2 Plot quality information per product (world map)

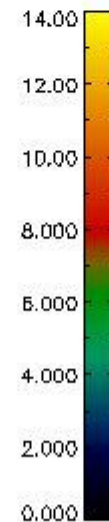
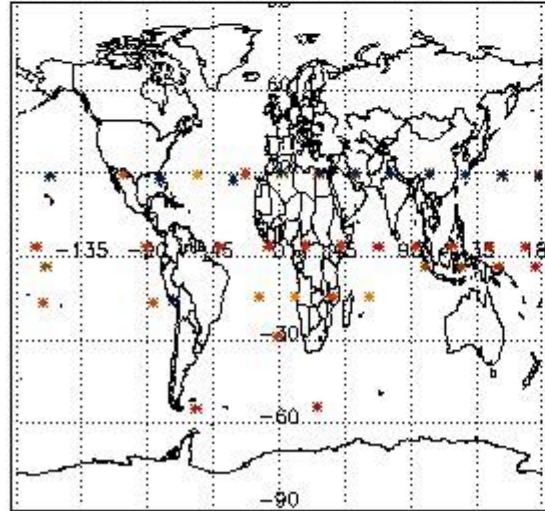
Percentage of flagged data per O3 profile



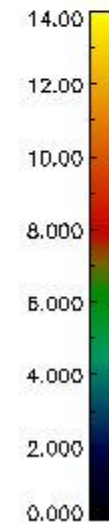
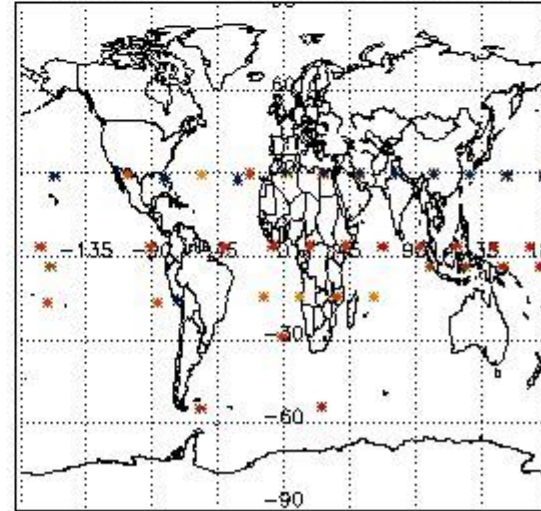
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

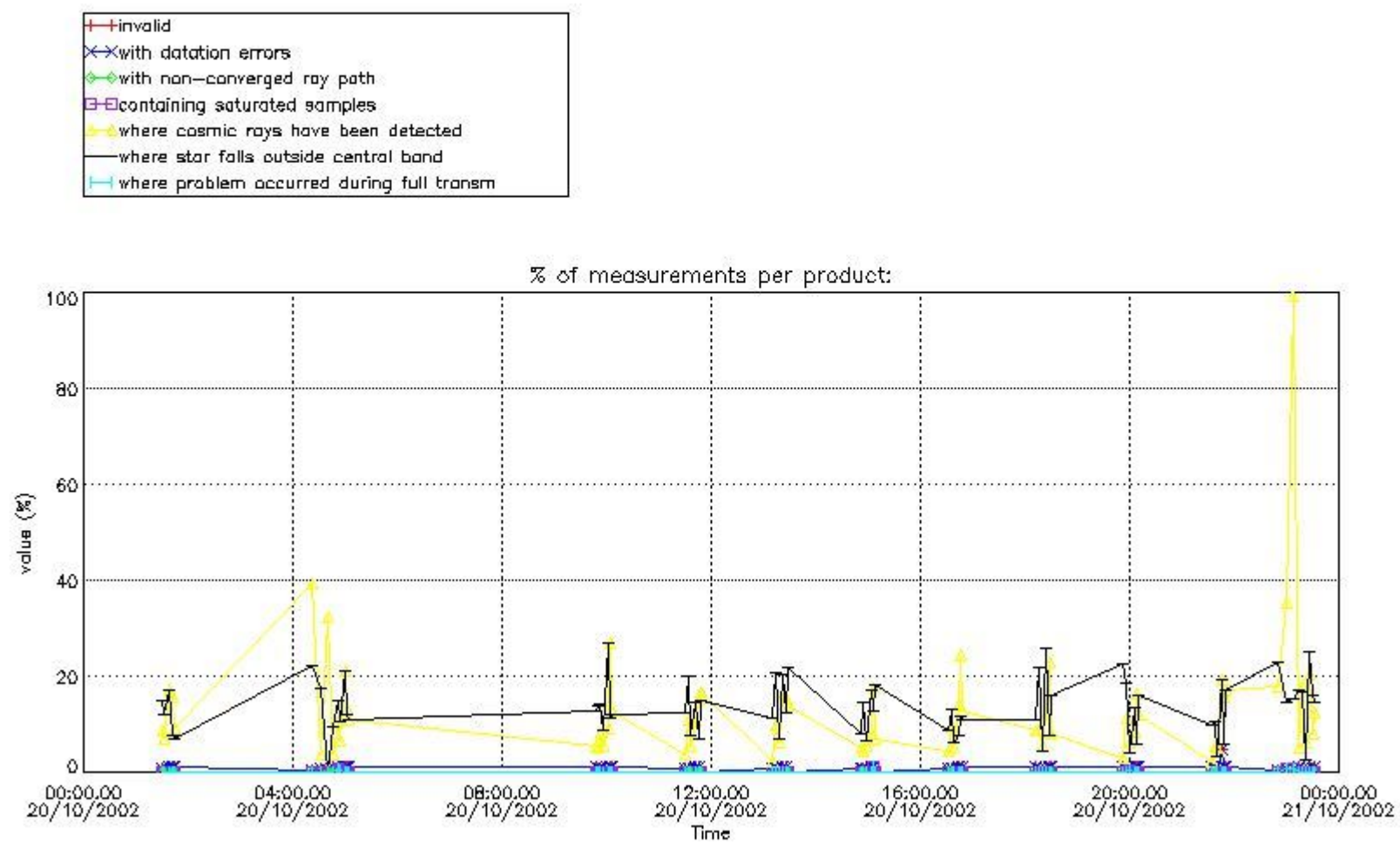


4. Level 1 quality information per product

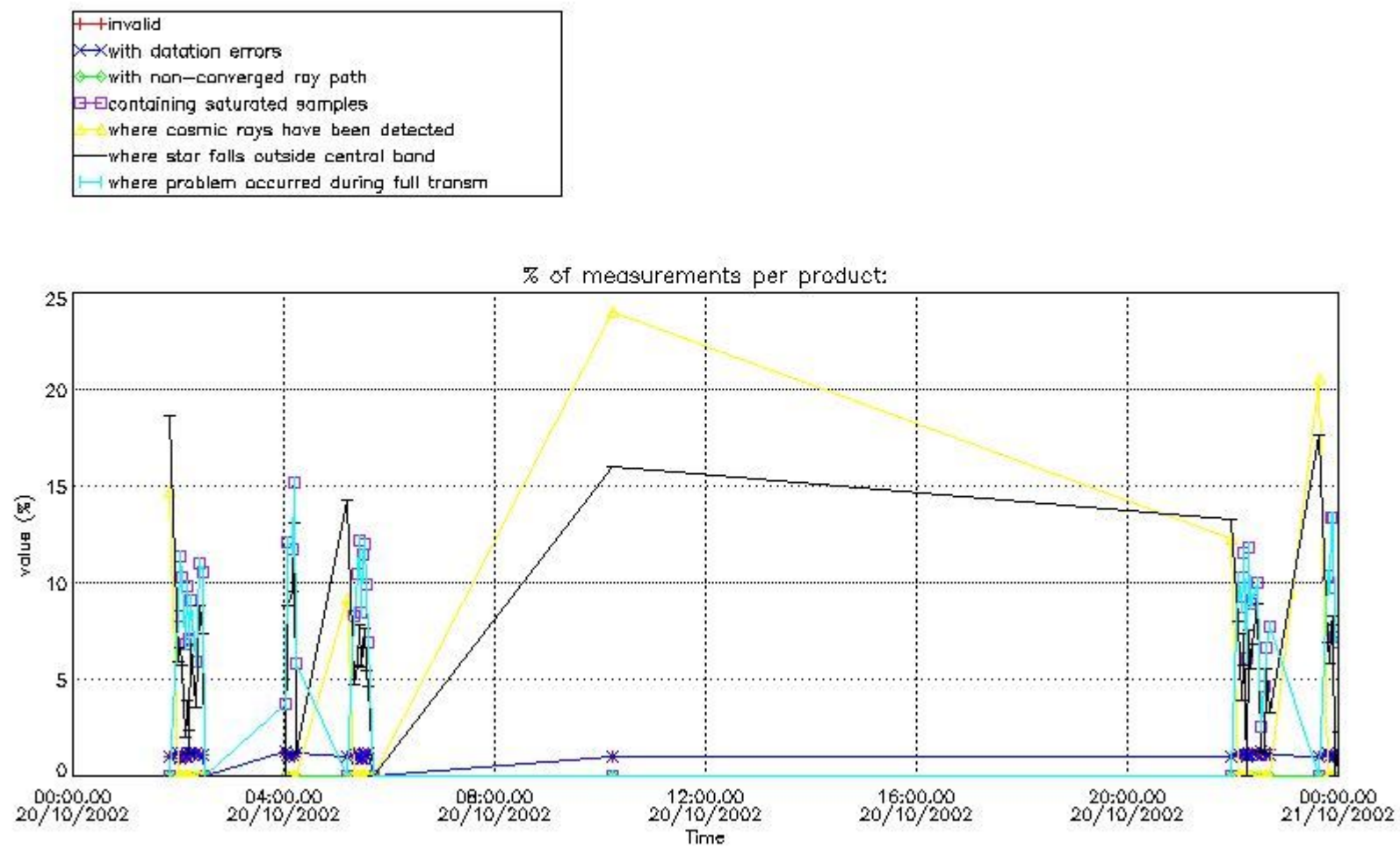
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



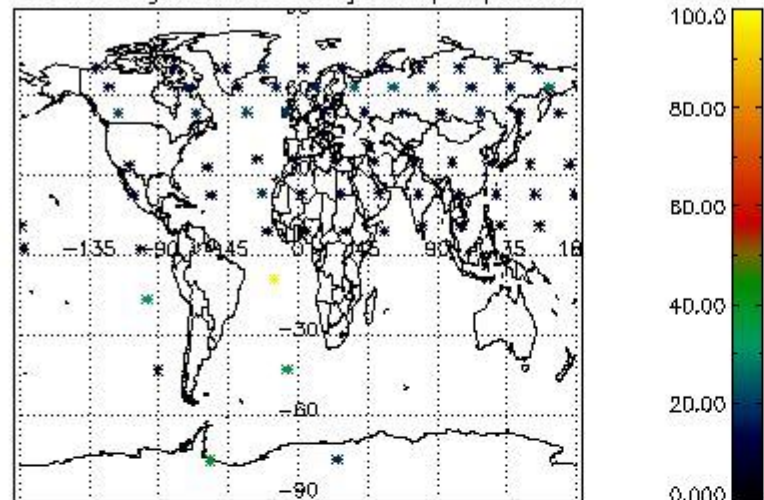
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



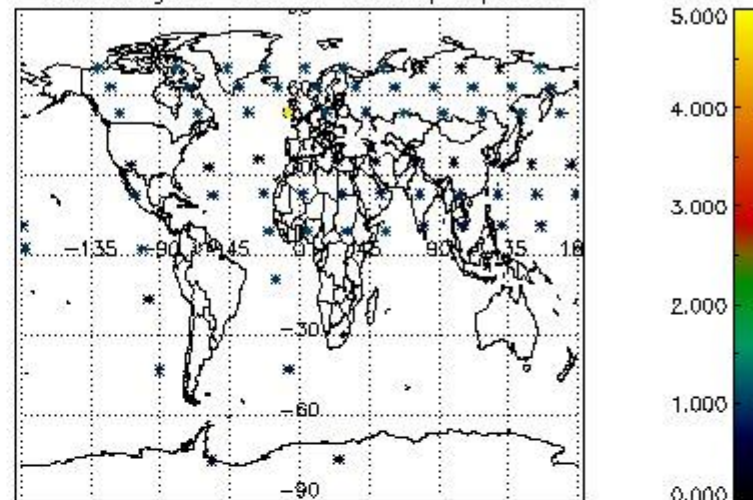
4.2 Plot quality information per product coming from level 1b processing (world map)

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

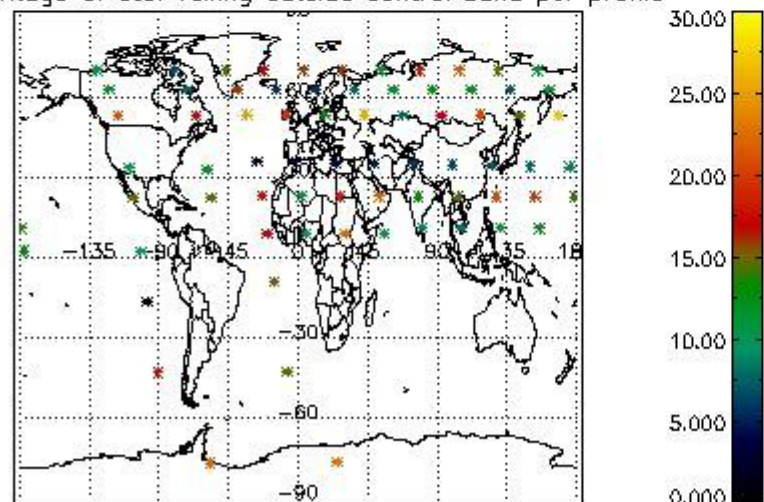
Percentage of cosmic ray hits per profile



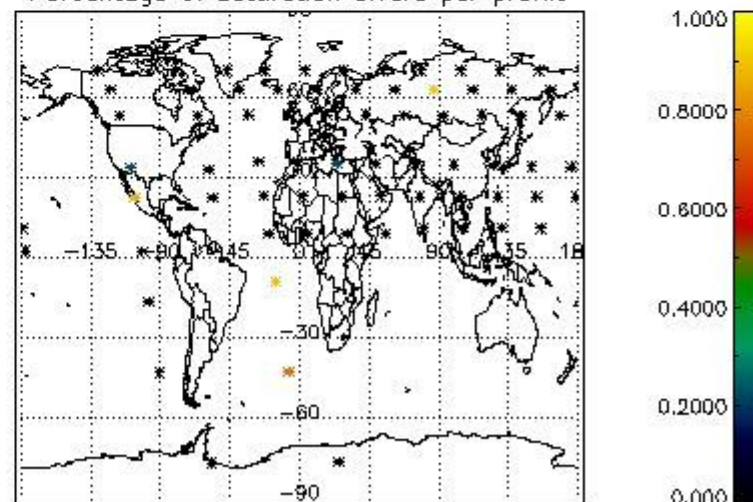
Percentage of datation errors per profile



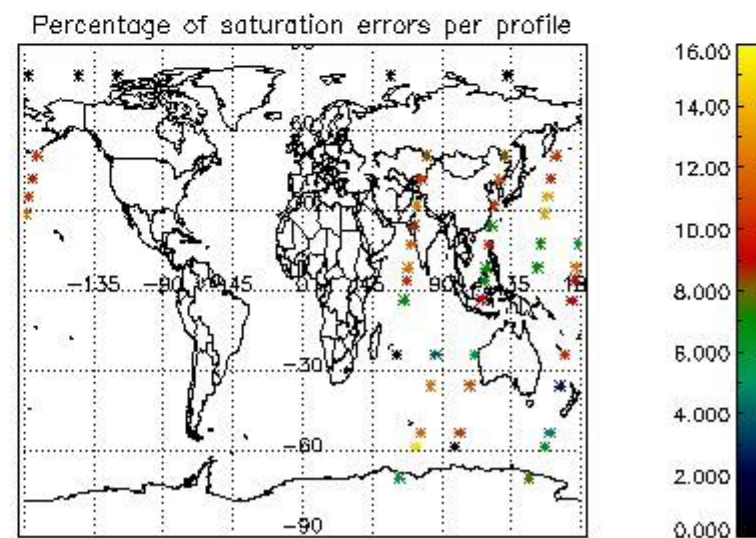
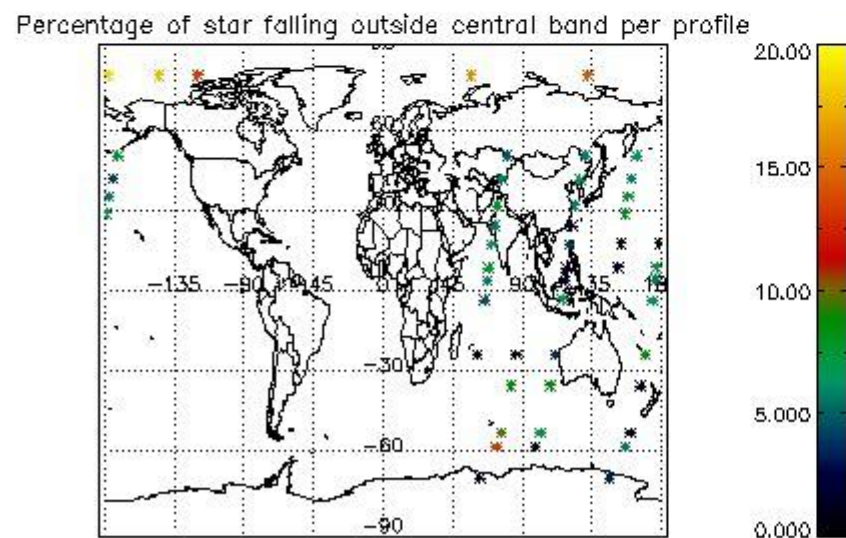
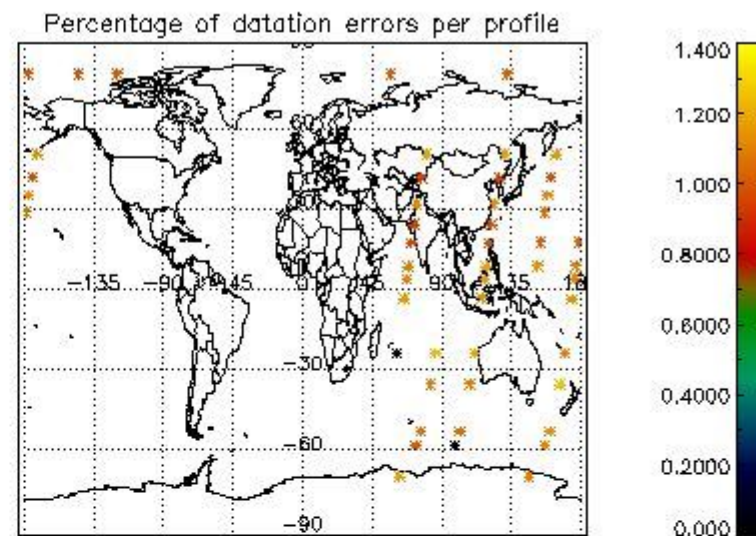
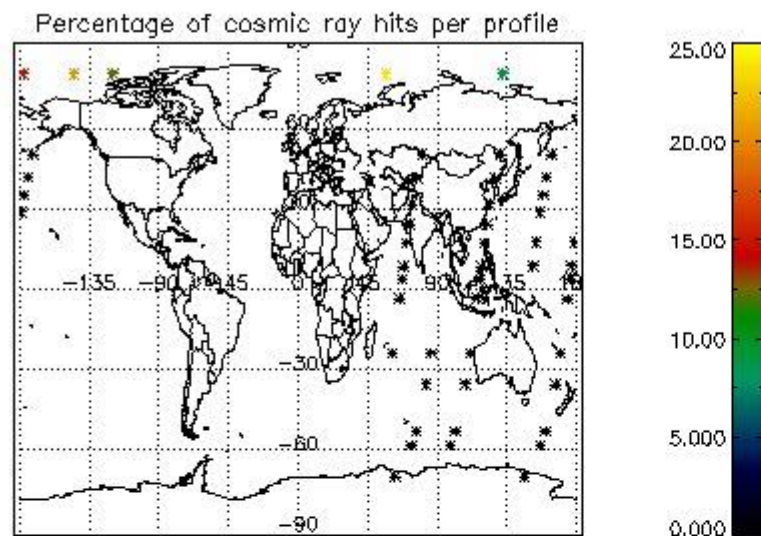
Percentage of star falling outside central band per profile



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

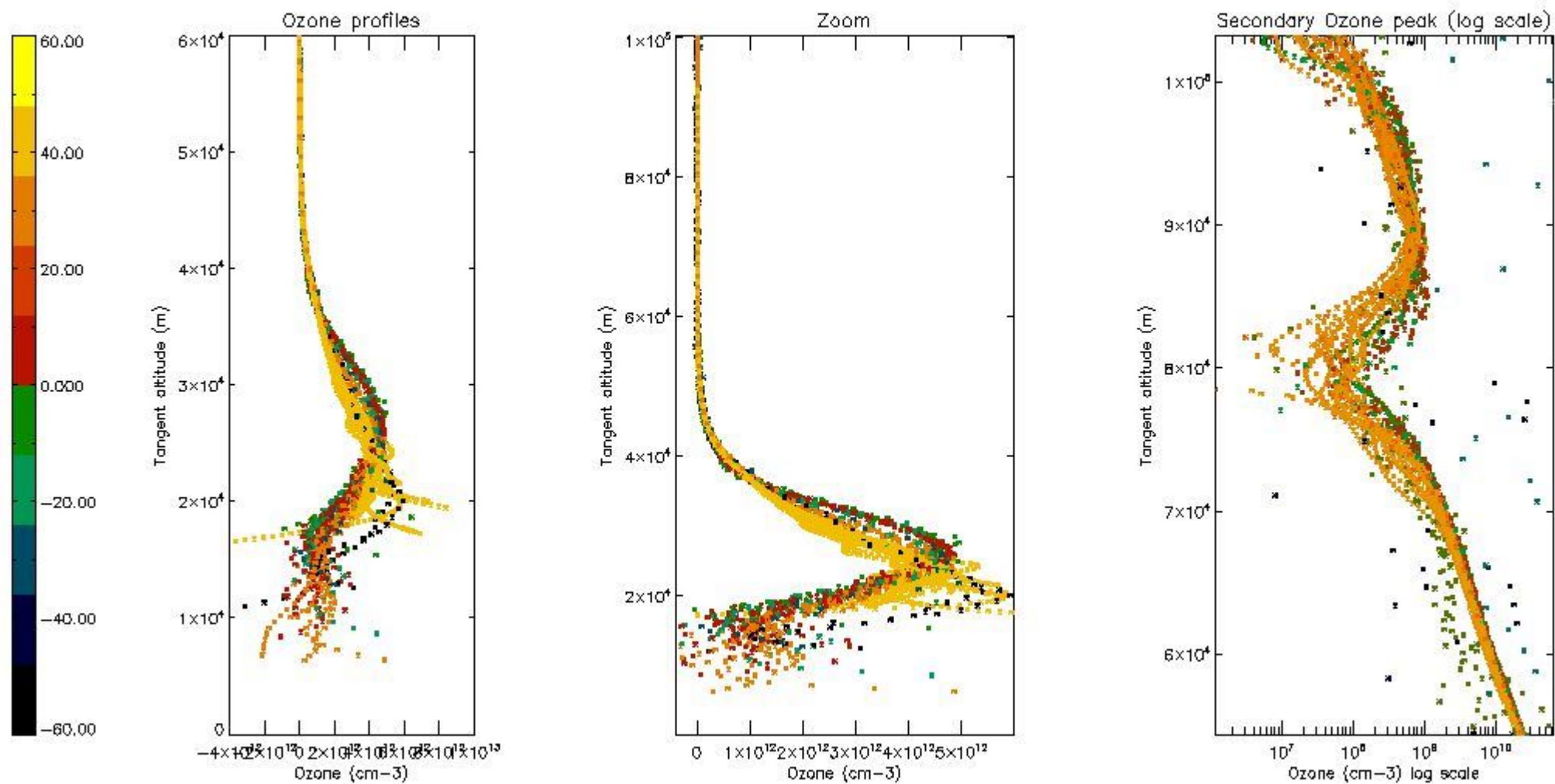
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	58
STD < 20	37

STD < 10	35
STD < 5	32

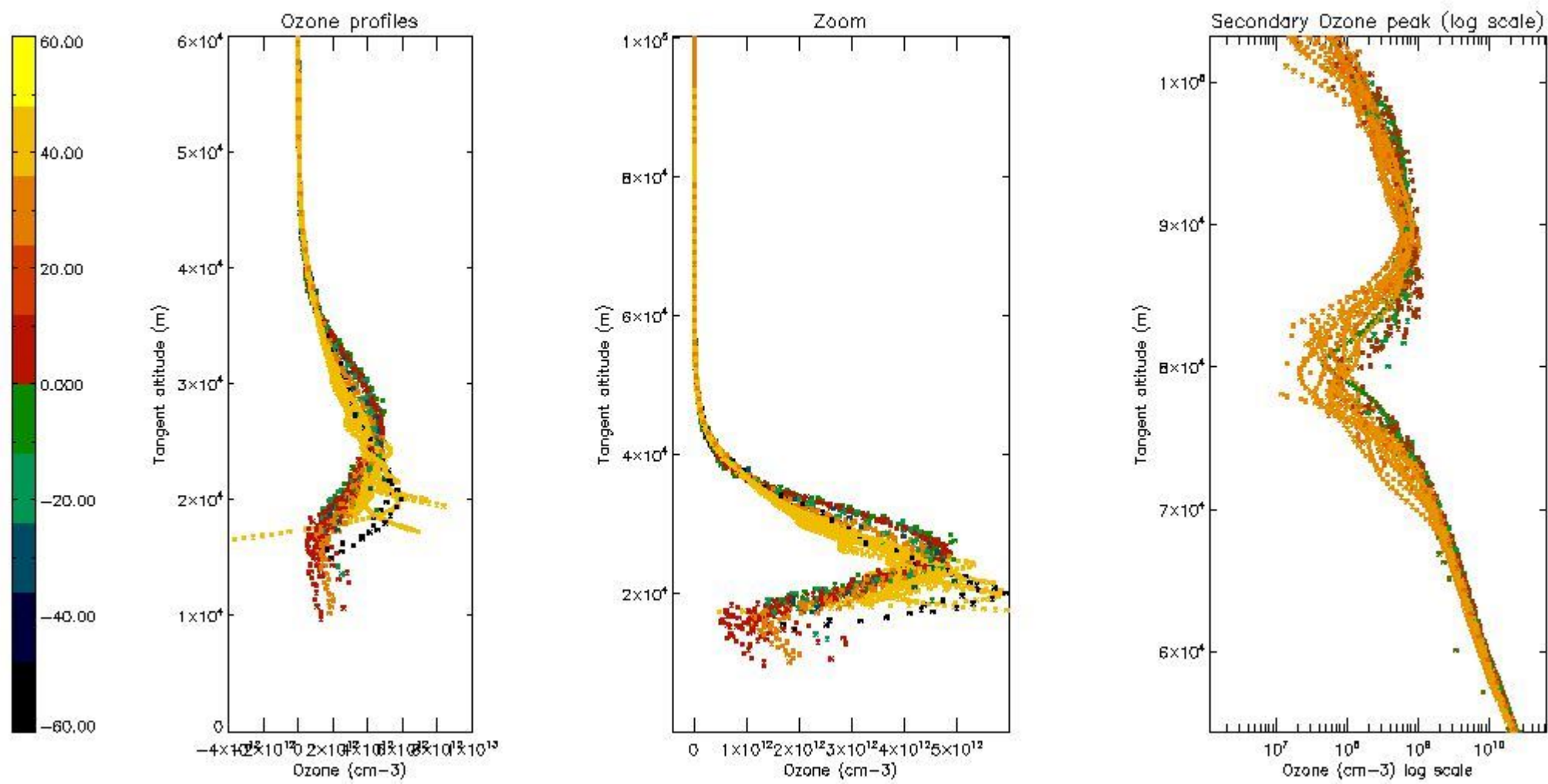
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



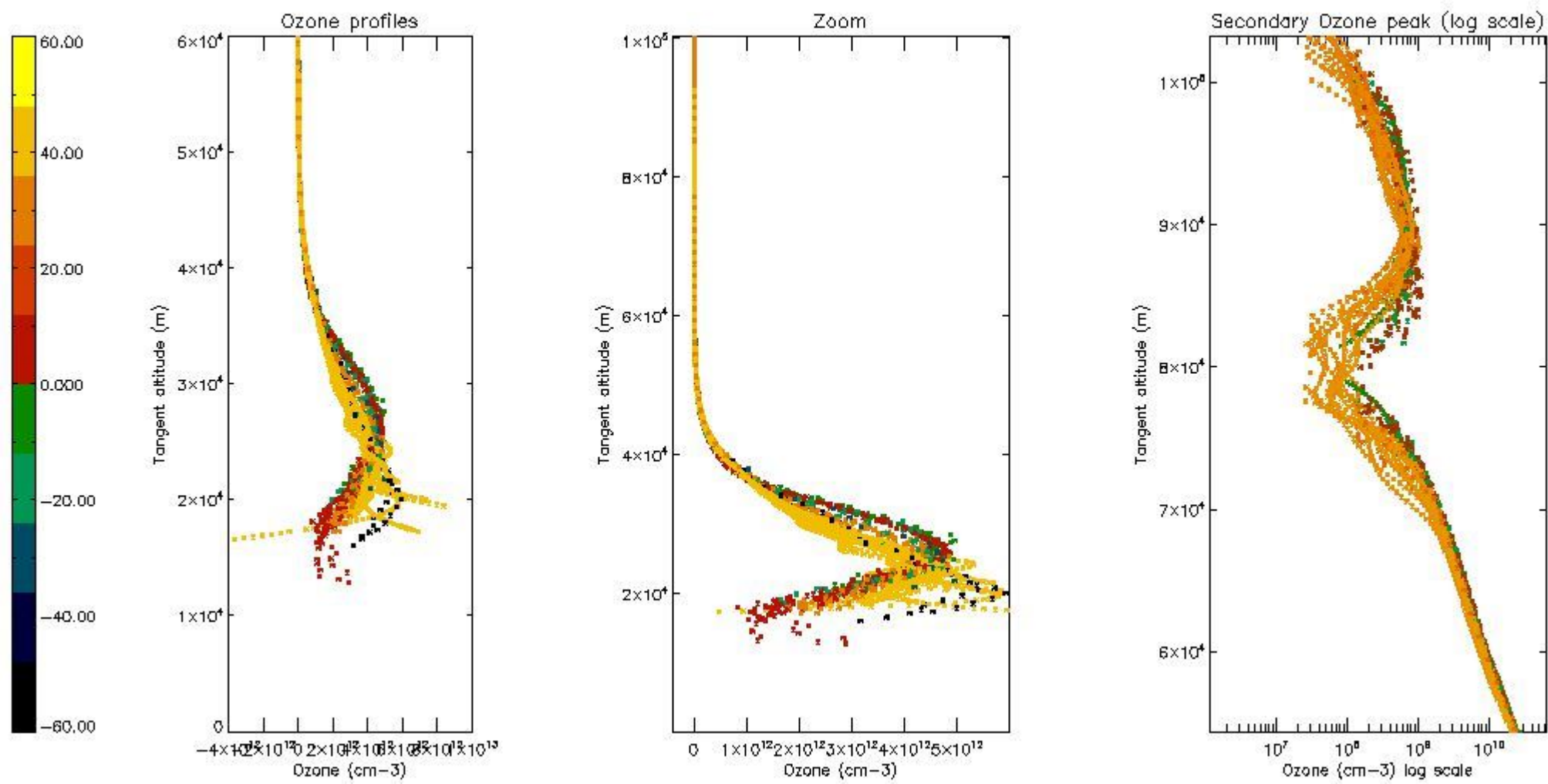
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



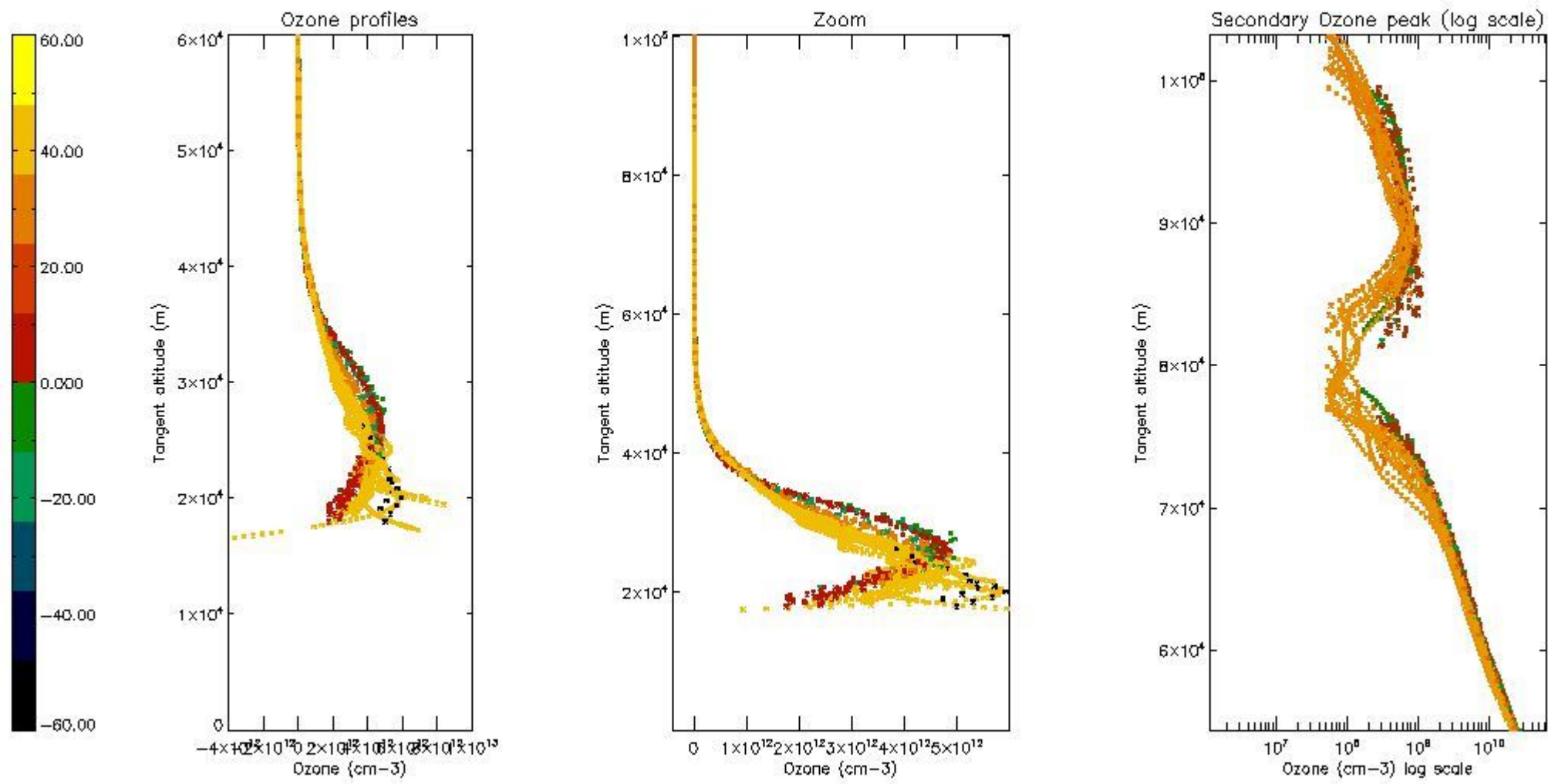
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



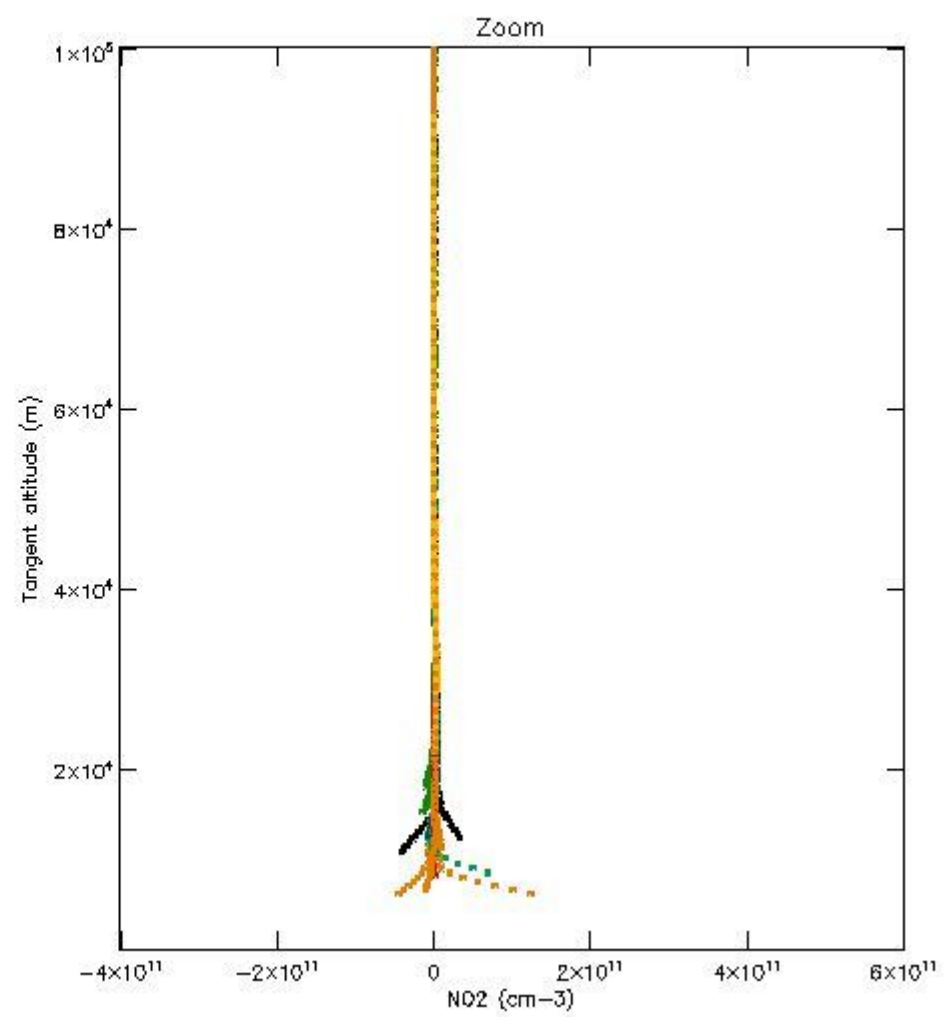
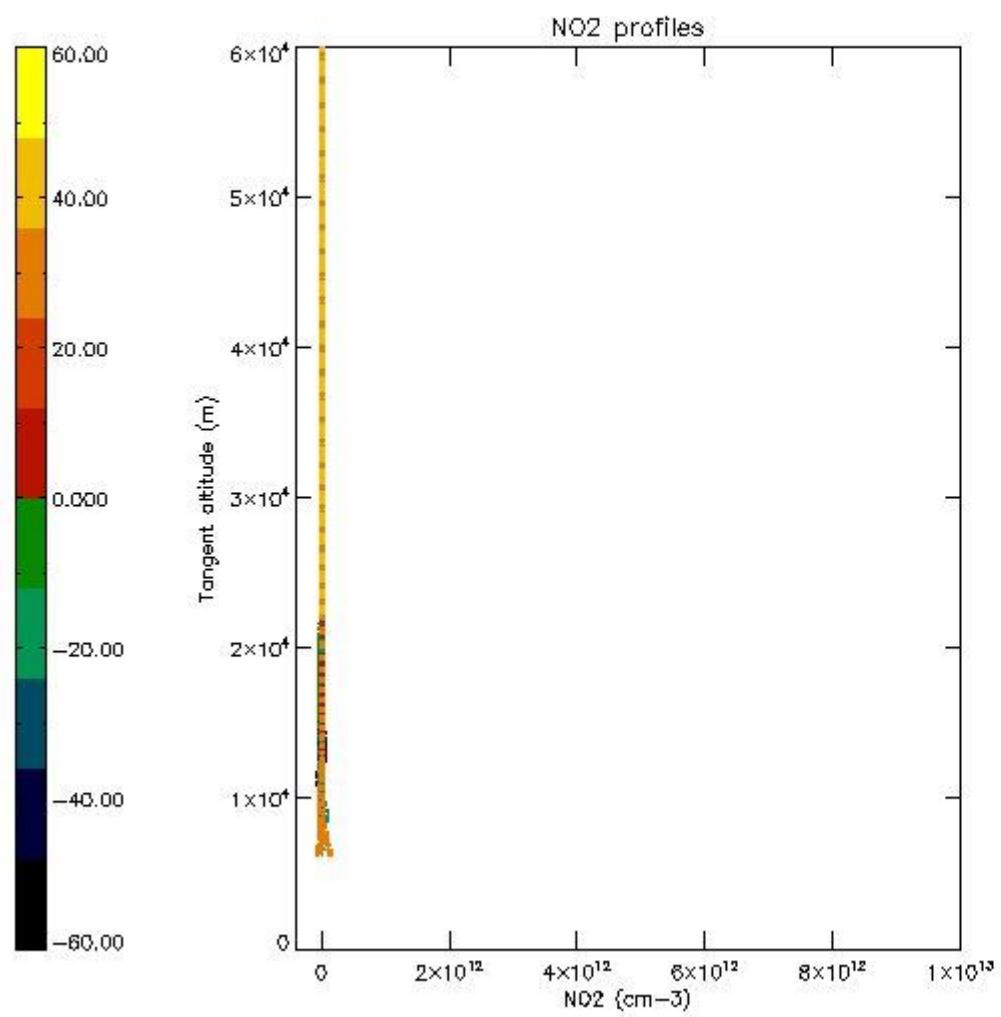
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



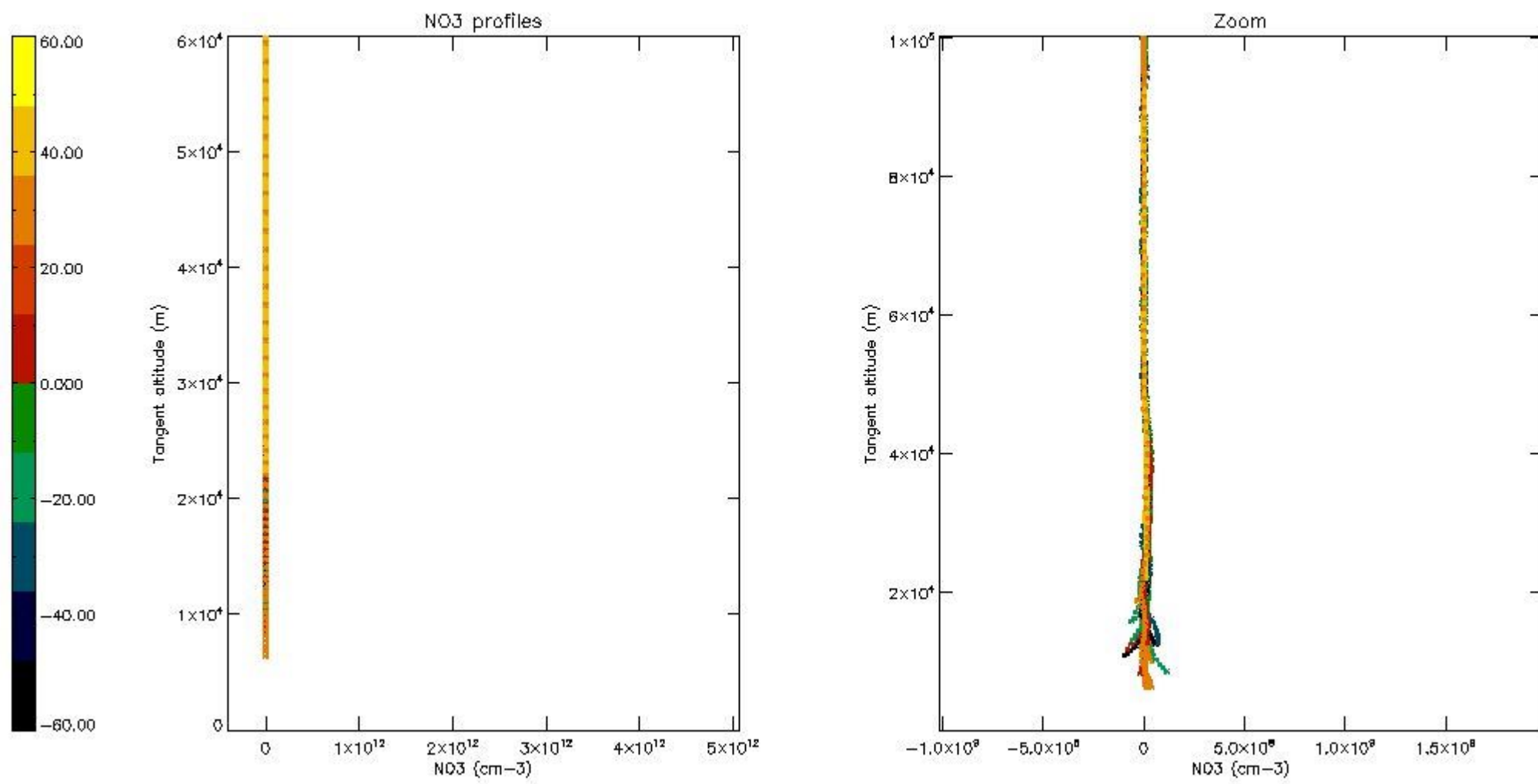
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



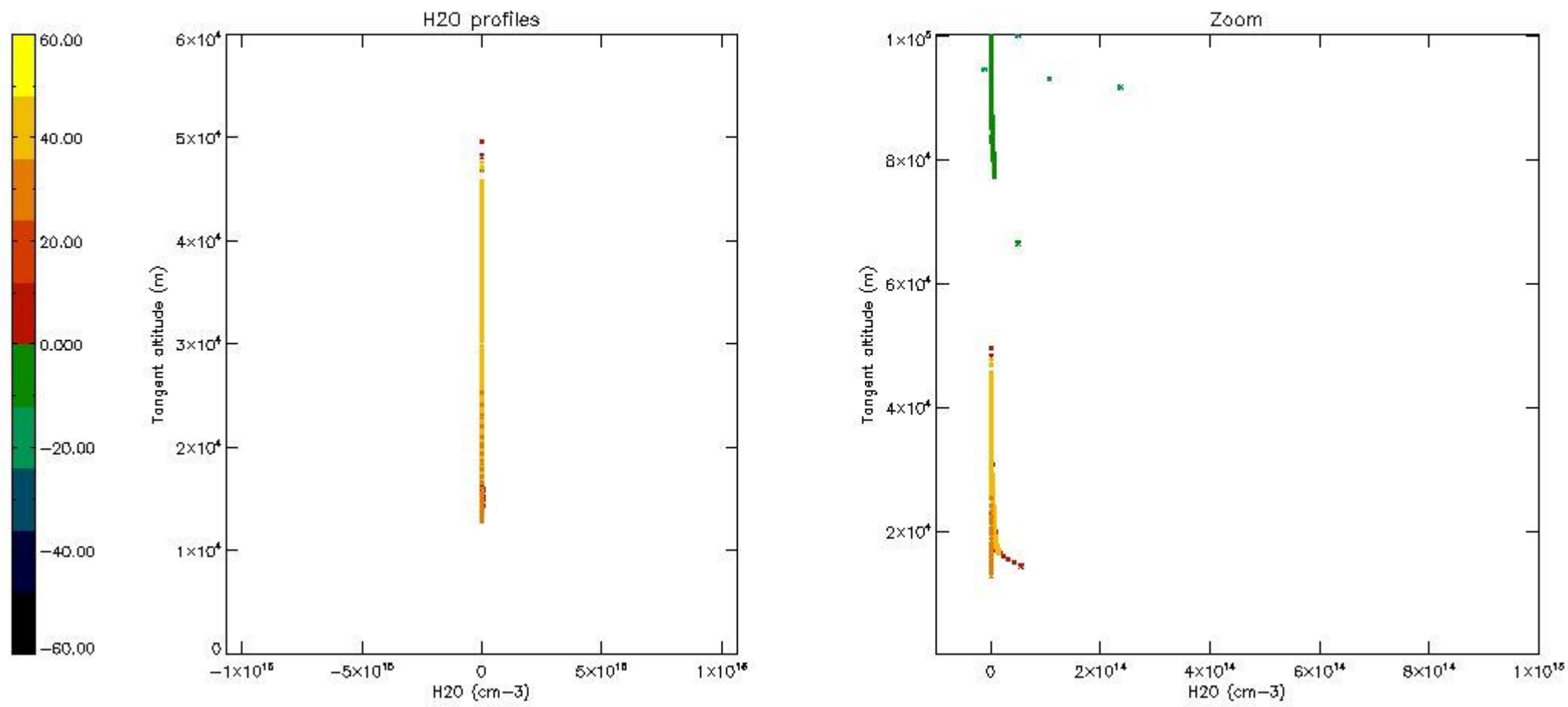
5.7 Plot NO3 profiles for all STD (dark without errors)

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	20-OCT-2002 01:29:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-OCT-2002 01:29:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-OCT-2002 01:29:55

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 19:34:50
Data source version	GOMOS/6.01
Start time of products	20-10-2002 (20OCT2002 00:00:00)
Stop time of products	21-10-2002 (21OCT2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	122
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__2PRFIN20021020_012955_000000582010_00275_03335_9093.N1	20-OCT-2002 01:29:55	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	3335	No
2	GOM_NL__2PRFIN20021020_013251_000002252010_00275_03335_9094.N1	20-OCT-2002 01:32:51	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3335	No
3	GOM_NL__2PRFIN20021020_013837_000000502010_00275_03335_9095.N1	20-OCT-2002 01:38:37	Dark	49.500	9	Alp Eri	0.45300	24000.	99	3335	No
4	GOM_NL__2PRFIN20021020_014123_000000522010_00275_03335_9096.N1	20-OCT-2002 01:41:23	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	3335	No
5	GOM_NL__2PRFIN20021020_014333_000000442010_00275_03335_9097.N1	20-OCT-2002 01:43:33	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	3335	No
6	GOM_NL__2PRFIN20021020_015007_000000512010_00275_03335_9098.N1	20-OCT-2002 01:50:07	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3335	No
7	GOM_NL__2PRFIN20021020_015940_000000432010_00275_03335_9099.N1	20-OCT-2002 01:59:40	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	3335	No
8	GOM_NL__2PRFIN20021020_020212_000000532010_00275_03335_9100.N1	20-OCT-2002 02:02:12	Bright	53.000	105	6Bet Ari	2.6450	8900.0	106	3335	No
9	GOM_NL__2PRFIN20021020_020455_000000442010_00275_03335_9101.N1	20-OCT-2002 02:04:55	Bright	44.000	164	44Eta Peg	2.9480	5400.0	88	3335	No
10	GOM_NL__2PRFIN20021020_020705_000000512010_00275_03335_9102.N1	20-OCT-2002 02:07:05	Bright	51.000	173	4Bet Tri	3.0040	8900.0	102	3335	No
11	GOM_NL__2PRFIN20021020_020900_000000512010_00275_03335_9103.N1	20-OCT-2002 02:09:00	Bright	51.000	73	57Gam1And	2.2600	13100.	102	3335	No
12	GOM_NL__2PRFIN20021020_021128_000000432010_00275_03335_9104.N1	20-OCT-2002 02:11:28	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	3335	No
13	GOM_NL__2PRFIN20021020_021247_000000432010_00275_03335_9105.N1	20-OCT-2002 02:12:47	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	3335	No
14	GOM_NL__2PRFIN20021020_021448_000000442010_00275_03335_9106.N1	20-OCT-2002 02:14:48	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3335	No
15	GOM_NL__2PRFIN20021020_022036_000000422010_00275_03335_9107.N1	20-OCT-2002 02:20:36	Bright	42.000	49	1Alp UMi	1.9900	6300.0	84	3335	No
16	GOM_NL__2PRFIN20021020_022349_000000462010_00275_03335_9108.N1	20-OCT-2002 02:23:49	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3335	No
17	GOM_NL__2PRFIN20021020_022849_000000482010_00275_03335_9109.N1	20-OCT-2002 02:28:49	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	3335	No
18	GOM_NL__2PRFIN20021020_023023_000000262010_00275_03335_9110.N1	20-OCT-2002 02:30:23	Twilight_stray	26.000	82	48Bet UMa	2.3650	10600.	52	3335	No
19	GOM_NL__2PRFIN20021020_040111_000000412010_00276_03336_9190.N1	20-OCT-2002 04:01:11	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	3336	No
20	GOM_NL__2PRFIN20021020_040426_000000462010_00276_03336_9191.N1	20-OCT-2002 04:04:26	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3336	No
21	GOM_NL__2PRFIN20021020_040926_000000472010_00276_03336_9192.N1	20-OCT-2002 04:09:26	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3336	No
22	GOM_NL__2PRFIN20021020_041100_000000502010_00276_03336_9193.N1	20-OCT-2002 04:11:00	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	3336	No
23	GOM_NL__2PRFIN20021020_041427_000000432010_00276_03336_9194.N1	20-OCT-2002 04:14:27	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3336	No
24	GOM_NL__2PRFIN20021020_042235_000001472010_00276_03336_9195.N1	20-OCT-2002 04:22:35	Twilight_stray	147.00	17	78Bet Gem	1.1610	4500.0	294	3336	No
25	GOM_NL__2PRFIN20021020_043243_000000662010_00276_03336_9196.N1	20-OCT-2002 04:32:43	Dark	65.500	48	30Alp Hya	1.9770	4100.0	131	3336	No
26	GOM_NL__2PRFIN20021020_044012_000002522010_00276_03336_9197.N1	20-OCT-2002 04:40:12	Dark	252.00	8	10Alp CMi	0.40000	6500.0	504	3336	No
27	GOM_NL__2PRFIN20021020_044529_000000532010_00277_03337_9198.N1	20-OCT-2002 04:45:29	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	3337	No
28	GOM_NL__2PRFIN20021020_045108_000000572010_00277_03337_9199.N1	20-OCT-2002 04:51:08	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	3337	No
29	GOM_NL__2PRFIN20021020_045411_000002252010_00277_03337_9200.N1	20-OCT-2002 04:54:11	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3337	No
30	GOM_NL__2PRFIN20021020_045949_000000522010_00277_03337_9201.N1	20-OCT-2002 04:59:49	Dark	52.000	9	Alp Eri	0.45300	24000.	104	3337	No
31	GOM_NL__2PRFIN20021020_050235_000000542010_00277_03337_9202.N1	20-OCT-2002 05:02:35	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	3337	No
32	GOM_NL__2PRFIN20021020_050445_000000462010_00277_03337_9203.N1	20-OCT-2002 05:04:45	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	3337	No
33	GOM_NL__2PRFIN20021020_051119_000000492010_00277_03337_9204.N1	20-OCT-2002 05:11:19	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	3337	No
34	GOM_NL__2PRFIN20021020_052052_000000432010_00277_03337_9205.N1	20-OCT-2002 05:20:52	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	3337	No
35	GOM_NL__2PRFIN20021020_052323_000000532010_00277_03337_9206.N1	20-OCT-2002 05:23:23	Bright	52.500	105	6Bet Ari	2.6450	8900.0	105	3337	No
36	GOM_NL__2PRFIN20021020_052608_000000452010_00277_03337_9207.N1	20-OCT-2002 05:26:08	Bright	45.000	164	44Eta Peg	2.9480	5400.0	90	3337	No
37	GOM_NL__2PRFIN20021020_052815_000000532010_00277_03337_9208.N1	20-OCT-2002 05:28:15	Bright	53.000	173	4Bet Tri	3.0040	8900.0	106	3337	No
38	GOM_NL__2PRFIN20021020_053011_000000532010_00277_03337_9209.N1	20-OCT-2002 05:30:11	Bright	52.500	73	57Gam1And	2.2600	13100.	105	3337	No
39	GOM_NL__2PRFIN20021020_053239_000000462010_00277_03337_9210.N1	20-OCT-2002 05:32:39	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	3337	No
40	GOM_NL__2PRFIN20021020_053358_000000462010_00277_03337_9211.N1	20-OCT-2002 05:33:58	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	3337	No
41	GOM_NL__2PRFIN20021020_053600_000000442010_00277_03337_9212.N1	20-OCT-2002 05:36:00	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	3337	No
42	GOM_NL__2PRFIN20021020_054148_000000172010_00277_03337_9213.N1	20-OCT-2002 05:41:48	Straylight	17.000	49	1Alp UMi	1.9900	6300.0	34	3337	No

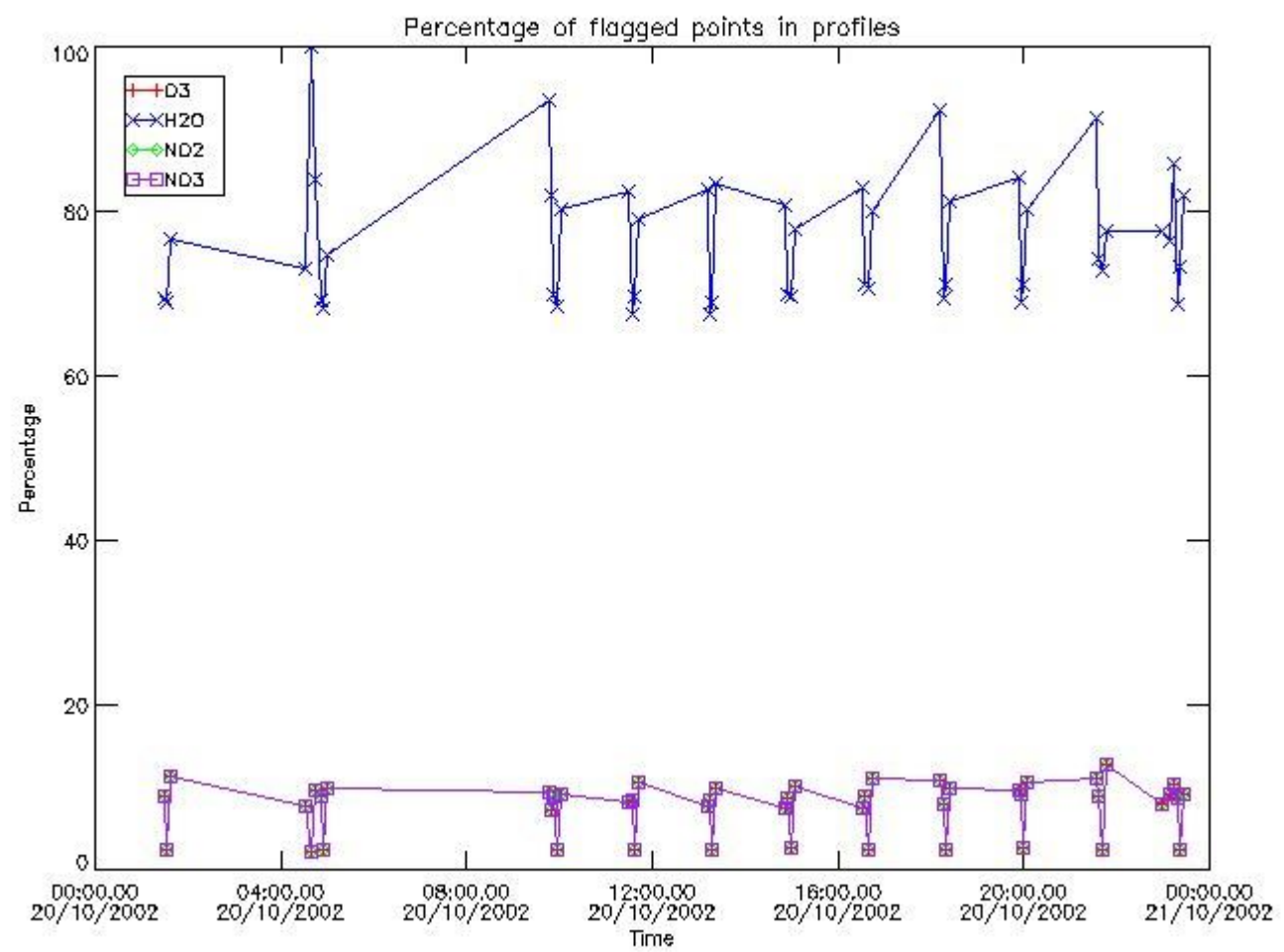
43	GOM_NL__2PRFIN20021020_094720_000000552010_00280_03340_9131.N1	20-OCT-2002 09:47:20	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	3340	No
44	GOM_NL__2PRFIN20021020_094941_000000702010_00280_03340_9132.N1	20-OCT-2002 09:49:41	Dark	69.500	117	Pi Pup	2.7060	3800.0	139	3340	No
45	GOM_NL__2PRFIN20021020_095258_000000572010_00280_03340_9133.N1	20-OCT-2002 09:52:58	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	3340	No
46	GOM_NL__2PRFIN20021020_095609_000002252010_00280_03340_9134.N1	20-OCT-2002 09:56:09	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3340	No
47	GOM_NL__2PRFIN20021020_100138_000000562010_00280_03340_9135.N1	20-OCT-2002 10:01:38	Dark	56.000	9	Alp Eri	0.45300	24000.	112	3340	No
48	GOM_NL__2PRFIN20021020_100424_000000542010_00280_03340_9136.N1	20-OCT-2002 10:04:24	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	3340	No
49	GOM_NL__2PRFIN20021020_100634_000000472010_00280_03340_9137.N1	20-OCT-2002 10:06:34	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	3340	No
50	GOM_NL__2PRFIN20021020_101307_000000502010_00280_03340_9138.N1	20-OCT-2002 10:13:07	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	3340	No
51	GOM_NL__2PRFIN20021020_113018_000000692010_00281_03341_9131.N1	20-OCT-2002 11:30:18	Dark	68.500	117	Pi Pup	2.7060	3800.0	137	3341	No
52	GOM_NL__2PRFIN20021020_113335_000000612010_00281_03341_9132.N1	20-OCT-2002 11:33:35	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3341	No
53	GOM_NL__2PRFIN20021020_113649_000002252010_00281_03341_9133.N1	20-OCT-2002 11:36:49	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3341	No
54	GOM_NL__2PRFIN20021020_114214_000000482010_00281_03341_9134.N1	20-OCT-2002 11:42:14	Dark	48.000	9	Alp Eri	0.45300	24000.	96	3341	No
55	GOM_NL__2PRFIN20021020_114501_000000512010_00281_03341_9135.N1	20-OCT-2002 11:45:01	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	3341	No
56	GOM_NL__2PRFIN20021020_114710_000000482010_00281_03341_9136.N1	20-OCT-2002 11:47:10	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	3341	No
57	GOM_NL__2PRFIN20021020_131056_000000672010_00282_03342_9131.N1	20-OCT-2002 13:10:56	Dark	66.500	117	Pi Pup	2.7060	3800.0	133	3342	No
58	GOM_NL__2PRFIN20021020_131413_000000612010_00282_03342_9132.N1	20-OCT-2002 13:14:13	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3342	No
59	GOM_NL__2PRFIN20021020_131729_000002252010_00282_03342_9133.N1	20-OCT-2002 13:17:29	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3342	No
60	GOM_NL__2PRFIN20021020_132251_000000522010_00282_03342_9134.N1	20-OCT-2002 13:22:51	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3342	No
61	GOM_NL__2PRFIN20021020_132538_000000532010_00282_03342_9135.N1	20-OCT-2002 13:25:38	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	3342	No
62	GOM_NL__2PRFIN20021020_132746_000000512010_00282_03342_9136.N1	20-OCT-2002 13:27:46	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	3342	No
63	GOM_NL__2PRFIN20021020_145131_000000682010_00283_03343_9131.N1	20-OCT-2002 14:51:31	Dark	67.500	117	Pi Pup	2.7060	3800.0	135	3343	No
64	GOM_NL__2PRFIN20021020_145448_000000592010_00283_03343_9132.N1	20-OCT-2002 14:54:48	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	3343	No
65	GOM_NL__2PRFIN20021020_145809_000002252010_00283_03343_9133.N1	20-OCT-2002 14:58:09	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3343	No
66	GOM_NL__2PRFIN20021020_150326_000000502010_00283_03343_9134.N1	20-OCT-2002 15:03:26	Dark	50.000	9	Alp Eri	0.45300	24000.	100	3343	No
67	GOM_NL__2PRFIN20021020_150613_000000552010_00283_03343_9135.N1	20-OCT-2002 15:06:13	Straylight	55.000	157	The1Eri	2.9060	9300.0	110	3343	No
68	GOM_NL__2PRFIN20021020_150822_000000502010_00283_03343_9136.N1	20-OCT-2002 15:08:22	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	3343	No
69	GOM_NL__2PRFIN20021020_163208_000000682010_00284_03344_9151.N1	20-OCT-2002 16:32:08	Dark	68.000	117	Pi Pup	2.7060	3800.0	136	3344	No
70	GOM_NL__2PRFIN20021020_163524_000000582010_00284_03344_9152.N1	20-OCT-2002 16:35:24	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	3344	No
71	GOM_NL__2PRFIN20021020_163849_000002252010_00284_03344_9153.N1	20-OCT-2002 16:38:49	Dark	225.00	1	9Alp CMa	-1.4400	11000.	450	3344	No
72	GOM_NL__2PRFIN20021020_164402_000000462010_00284_03344_9154.N1	20-OCT-2002 16:44:02	Dark	45.500	9	Alp Eri	0.45300	24000.	91	3344	No
73	GOM_NL__2PRFIN20021020_164649_000000562010_00284_03344_9155.N1	20-OCT-2002 16:46:49	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	3344	No
74	GOM_NL__2PRFIN20021020_164858_000000472010_00284_03344_9156.N1	20-OCT-2002 16:48:58	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	3344	No
75	GOM_NL__2PRFIN20021020_181210_000000472010_00285_03345_9151.N1	20-OCT-2002 18:12:10	Dark	46.500	29	Bet Car	1.6720	10200.	93	3345	No
76	GOM_NL__2PRFIN20021020_181602_000000642010_00285_03345_9152.N1	20-OCT-2002 18:16:02	Dark	64.000	2	Alp Car	-0.73600	7000.0	128	3345	No
77	GOM_NL__2PRFIN20021020_181928_000002242010_00285_03345_9153.N1	20-OCT-2002 18:19:28	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3345	No
78	GOM_NL__2PRFIN20021020_182439_000000572010_00285_03345_9154.N1	20-OCT-2002 18:24:39	Dark	56.500	9	Alp Eri	0.45300	24000.	113	3345	No
79	GOM_NL__2PRFIN20021020_182726_000000522010_00285_03345_9155.N1	20-OCT-2002 18:27:26	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	3345	No
80	GOM_NL__2PRFIN20021020_182934_000000502010_00285_03345_9156.N1	20-OCT-2002 18:29:34	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3345	No
81	GOM_NL__2PRFIN20021020_195246_000000542010_00286_03346_9151.N1	20-OCT-2002 19:52:46	Dark	53.500	29	Bet Car	1.6720	10200.	107	3346	No
82	GOM_NL__2PRFIN20021020_195638_000000622010_00286_03346_9152.N1	20-OCT-2002 19:56:38	Dark	61.500	2	Alp Car	-0.73600	7000.0	123	3346	No
83	GOM_NL__2PRFIN20021020_200008_000002242010_00286_03346_9153.N1	20-OCT-2002 20:00:08	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3346	No
84	GOM_NL__2PRFIN20021020_200515_000000492010_00286_03346_9154.N1	20-OCT-2002 20:05:15	Dark	48.500	9	Alp Eri	0.45300	24000.	97	3346	No
85	GOM_NL__2PRFIN20021020_200802_000000522010_00286_03346_9155.N1	20-OCT-2002 20:08:02	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	3346	No
86	GOM_NL__2PRFIN20021020_201010_000000502010_00286_03346_9156.N1	20-OCT-2002 20:10:10	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3346	No
87	GOM_NL__2PRFIN20021020_213322_000000462010_00287_03347_9151.N1	20-OCT-2002 21:33:22	Dark	46.000	29	Bet Car	1.6720	10200.	92	3347	No
88	GOM_NL__2PRFIN20021020_213715_000000572010_00287_03347_9152.N1	20-OCT-2002 21:37:15	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	3347	No
89	GOM_NL__2PRFIN20021020_214048_000002242010_00287_03347_9153.N1	20-OCT-2002 21:40:48	Dark	223.50	1	9Alp CMa	-1.4400	11000.	447	3347	No
90	GOM_NL__2PRFIN20021020_214551_000000522010_00287_03347_2791.N1	20-OCT-2002 21:45:51	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3347	No
91	GOM_NL__2PRFIN20021020_214839_000000522010_00287_03347_2792.N1	20-OCT-2002 21:48:39	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	3347	No
92	GOM_NL__2PRFIN20021020_215047_000000502010_00287_03347_2793.N1	20-OCT-2002 21:50:47	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3347	No
93	GOM_NL__2PRFIN20021020_215719_000000492010_00287_03347_2794.N1	20-OCT-2002 21:57:19	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	3347	No
94	GOM_NL__2PRFIN20021020_220652_000000442010_00287_03347_2795.N1	20-OCT-2002 22:06:52	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3347	No
95	GOM_NL__2PRFIN20021020_220918_000000522010_00287_03347_2796.N1	20-OCT-2002 22:09:18	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	3347	No
96	GOM_NL__2PRFIN20021020_221111_000000442010_00287_03347_2797.N1	20-OCT-2002 22:11:11	Bright	44.000	93	53Bet Peg	2.5200	3100.0	88	3347	No
97	GOM_NL__2PRFIN20021020_221256_000000482010_00287_03347_2798.N1	20-OCT-2002 22:12:56	Bright	47.500	53	43Bet And	2.0480	3300.0	95	3347	No
98	GOM_NL__2PRFIN20021020_221605_000000492010_00287_03347_2799.N1	20-OCT-2002 22:16:05	Bright	49.000	73	57Gam1And	2.2600	13100.	98	3347	No
99	GOM_NL__2PRFIN20021020_221837_000000472010_00287_03347_2800.N1	20-OCT-2002 22:18:37	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	3347	No
100	GOM_NL__2PRFIN20021020_221956_000000452010_00287_03347_2801.N1	20-OCT-2002 22:19:56	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	3347	No
101	GOM_NL__2PRFIN20021020_222203_000000442010_00287_03347_2802.N1	20-OCT-2002 22:22:03	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3347	No

102	GOM_NL__2PRFIN20021020_222747_000000452010_00287_03347_2803.N1	20-OCT-2002 22:27:47	Bright	45.000	49	1Alp UMi	1.9900	6300.0	90	3347	No
103	GOM_NL__2PRFIN20021020_223104_000000402010_00287_03347_2804.N1	20-OCT-2002 22:31:04	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	3347	No
104	GOM_NL__2PRFIN20021020_223601_000000442010_00287_03347_2805.N1	20-OCT-2002 22:36:01	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	3347	No
105	GOM_NL__2PRFIN20021020_223735_000000452010_00287_03347_2806.N1	20-OCT-2002 22:37:35	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	3347	No
106	GOM_NL__2PRFIN20021020_224102_000000462010_00287_03347_2807.N1	20-OCT-2002 22:41:02	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	3347	No
107	GOM_NL__2PRFIN20021020_224918_000001562010_00287_03347_2808.N1	20-OCT-2002 22:49:18	Twilight	156.00	17	78Bet Gem	1.1610	4500.0	312	3347	No
108	GOM_NL__2PRFIN20021020_225927_000000652010_00287_03347_2809.N1	20-OCT-2002 22:59:27	Dark	65.000	48	30Alp Hya	1.9770	4100.0	130	3347	No
109	GOM_NL__2PRFIN20021020_230853_000000562010_00287_03347_2810.N1	20-OCT-2002 23:08:53	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	3347	No
110	GOM_NL__2PRFIN20021020_231358_000000502010_00288_03348_2790.N1	20-OCT-2002 23:13:58	Dark	49.500	29	Bet Car	1.6720	10200.	99	3348	No
111	GOM_NL__2PRFIN20021020_231752_000000602010_00288_03348_2791.N1	20-OCT-2002 23:17:52	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	3348	No
112	GOM_NL__2PRFIN20021020_232128_000002242010_00288_03348_2792.N1	20-OCT-2002 23:21:28	Dark	224.00	1	9Alp CMa	-1.4400	11000.	448	3348	No
113	GOM_NL__2PRFIN20021020_232627_000000562010_00288_03348_2793.N1	20-OCT-2002 23:26:27	Dark	56.000	9	Alp Eri	0.45300	24000.	112	3348	No
114	GOM_NL__2PRFIN20021020_232915_000000572010_00288_03348_2794.N1	20-OCT-2002 23:29:15	Straylight	56.500	157	The1Eri	2.9060	9300.0	113	3348	No
115	GOM_NL__2PRFIN20021020_233123_000000492010_00288_03348_2795.N1	20-OCT-2002 23:31:23	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	3348	No
116	GOM_NL__2PRFIN20021020_233756_000000512010_00288_03348_2796.N1	20-OCT-2002 23:37:56	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3348	No
117	GOM_NL__2PRFIN20021020_234728_000000442010_00288_03348_2797.N1	20-OCT-2002 23:47:28	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	3348	No
118	GOM_NL__2PRFIN20021020_234954_000000522010_00288_03348_2798.N1	20-OCT-2002 23:49:54	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	3348	No
119	GOM_NL__2PRFIN20021020_235148_000000452010_00288_03348_2799.N1	20-OCT-2002 23:51:48	Bright	45.000	93	53Bet Peg	2.5200	3100.0	90	3348	No
120	GOM_NL__2PRFIN20021020_235332_000000492010_00288_03348_2800.N1	20-OCT-2002 23:53:32	Bright	48.500	53	43Bet And	2.0480	3300.0	97	3348	No
121	GOM_NL__2PRFIN20021020_235641_000000492010_00288_03348_2801.N1	20-OCT-2002 23:56:41	Bright	49.000	73	57Gam1And	2.2600	13100.	98	3348	No
122	GOM_NL__2PRFIN20021020_235913_000000442010_00288_03348_2802.N1	20-OCT-2002 23:59:13	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	3348	No

3. Quality information per product

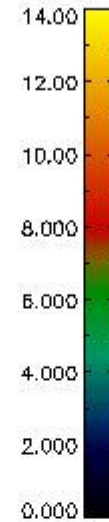
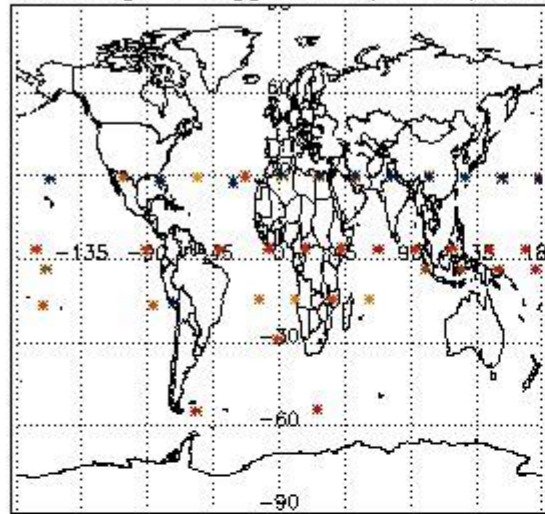
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

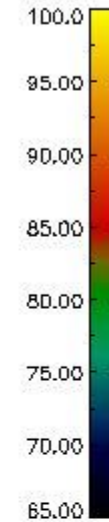
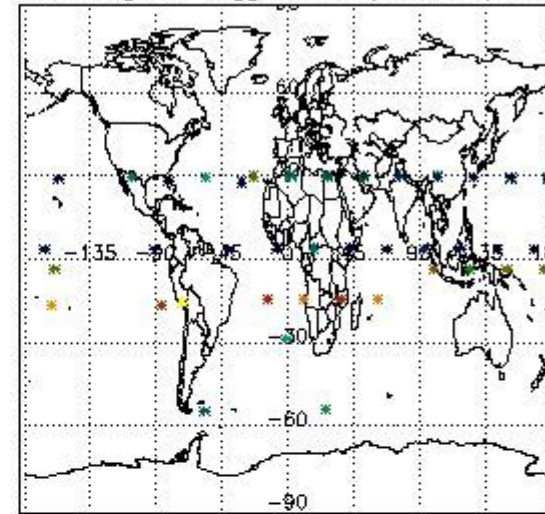


3.2 Plot quality information per product (world map)

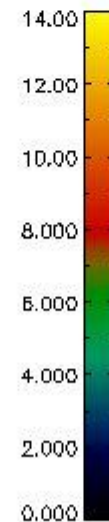
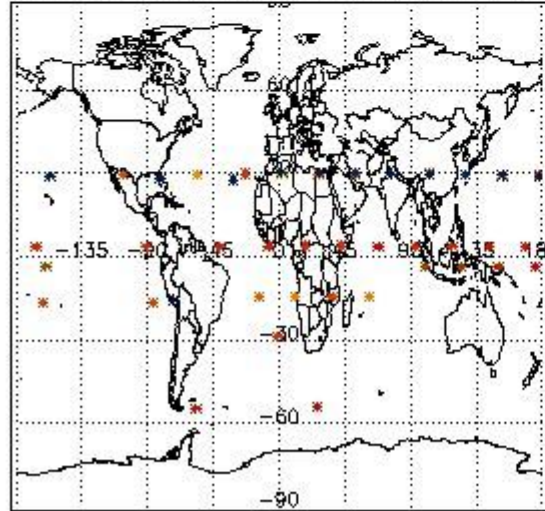
Percentage of flagged data per O3 profile



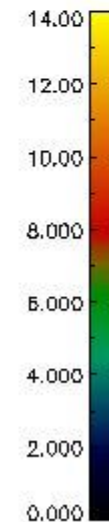
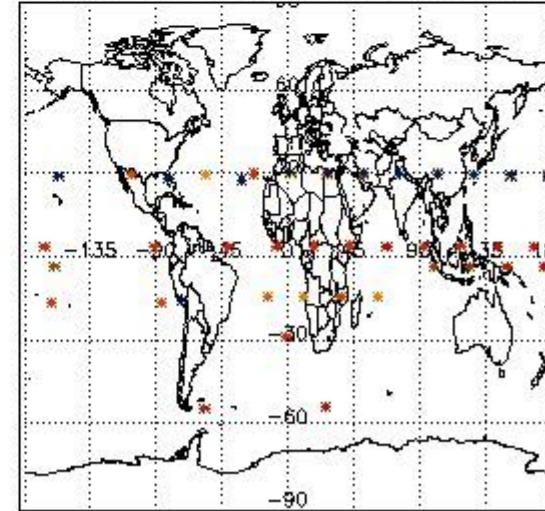
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

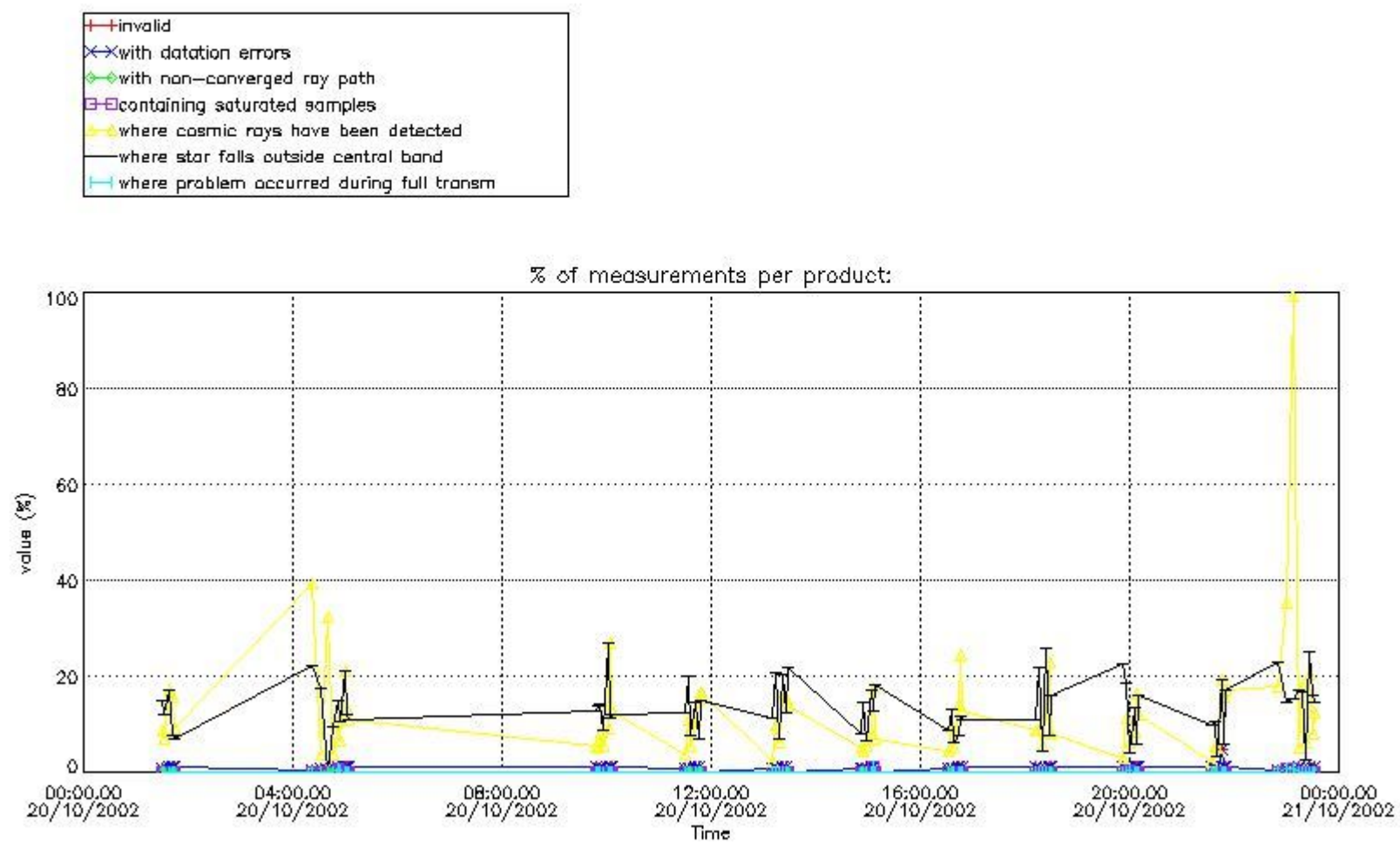


4. Level 1 quality information per product

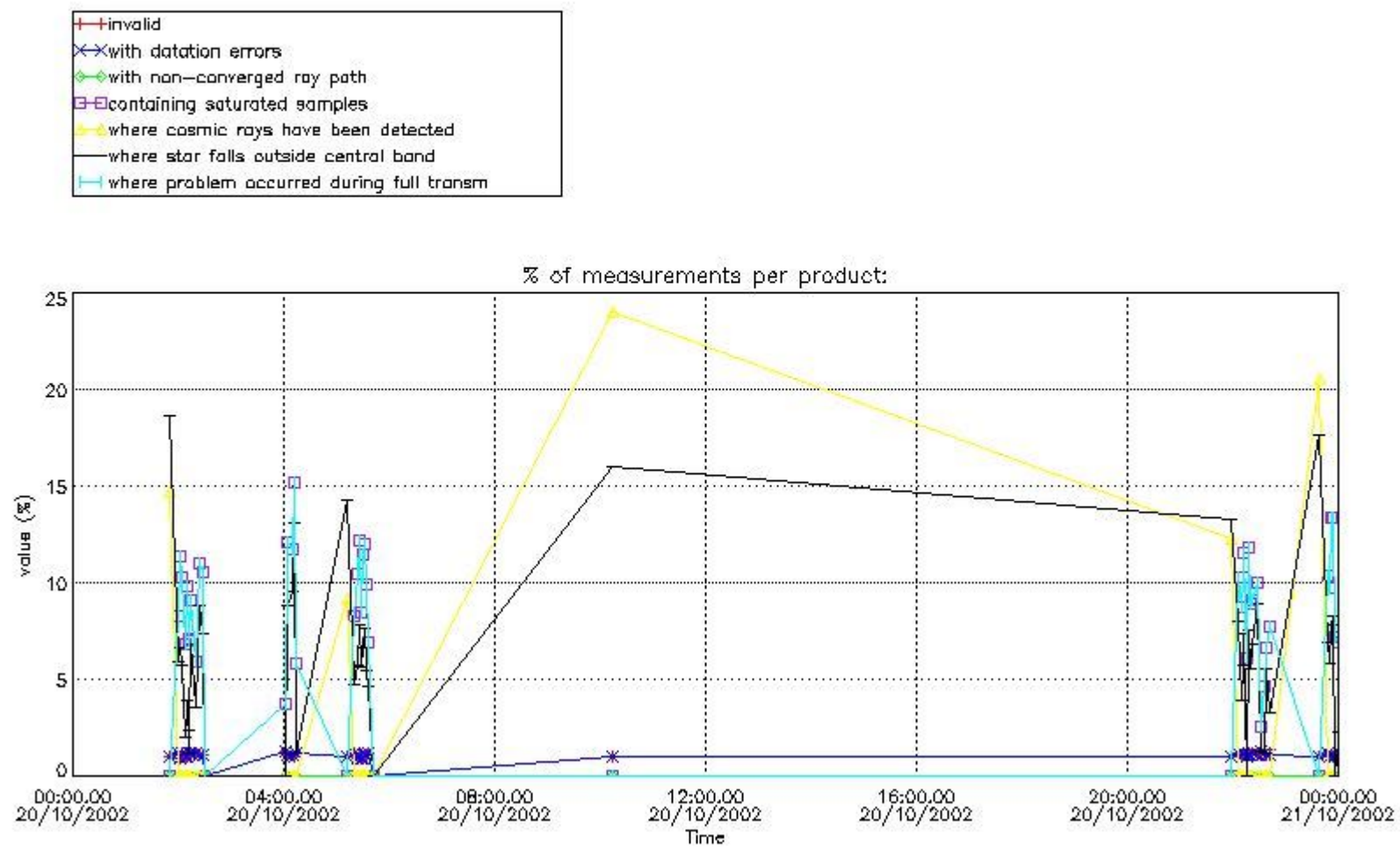
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



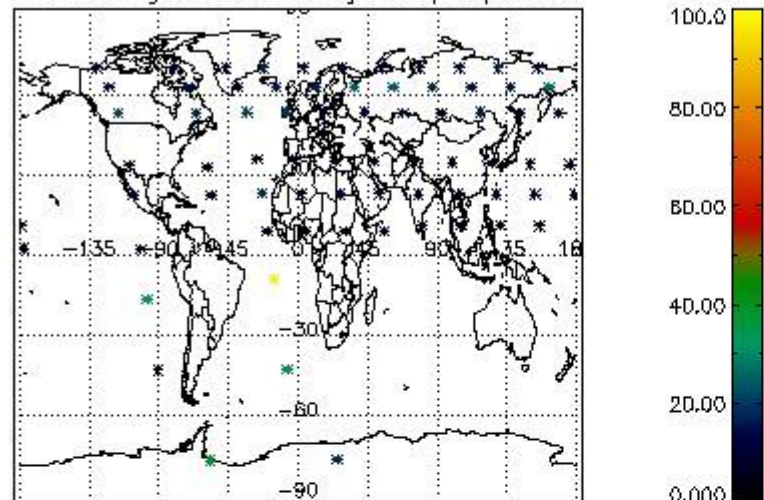
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



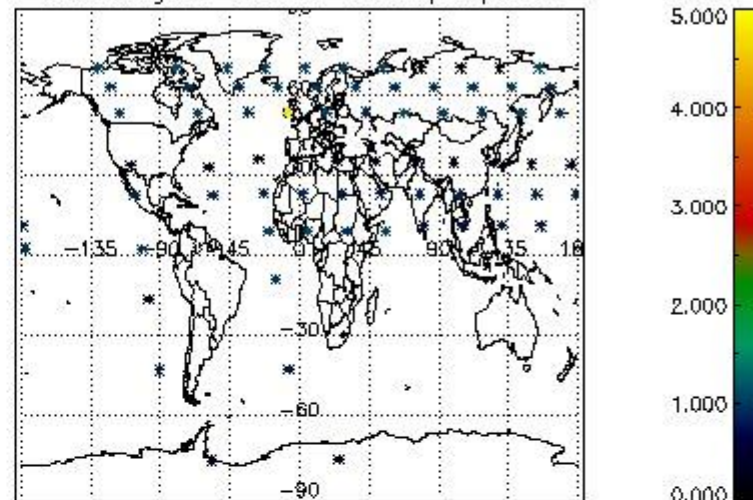
4.2 Plot quality information per product coming from level 1b processing (world map)

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

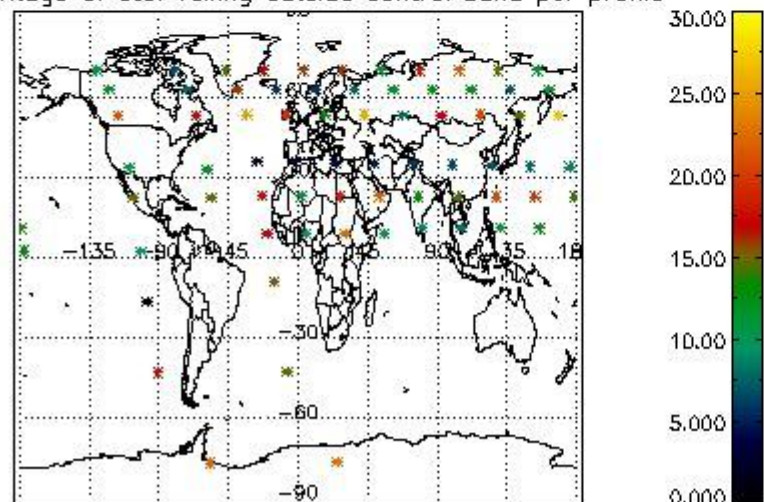
Percentage of cosmic ray hits per profile



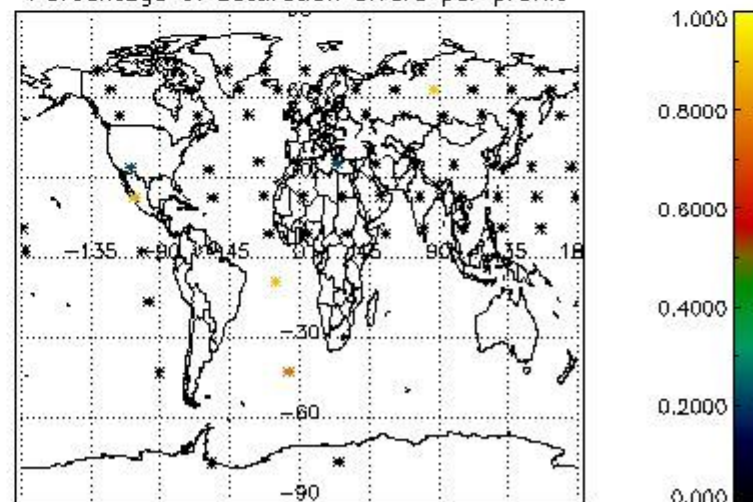
Percentage of datation errors per profile



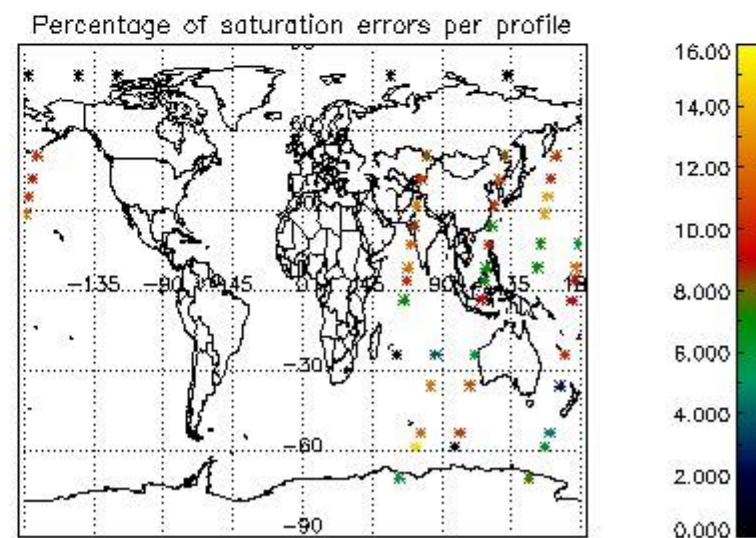
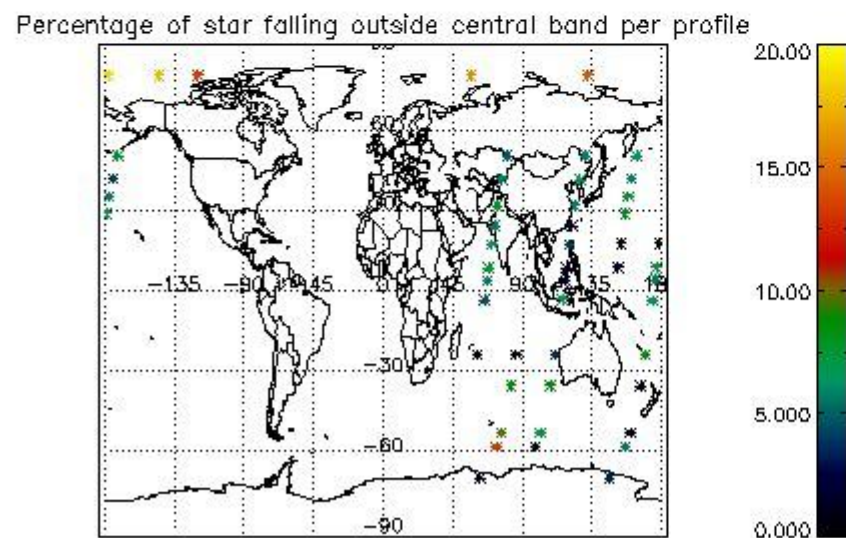
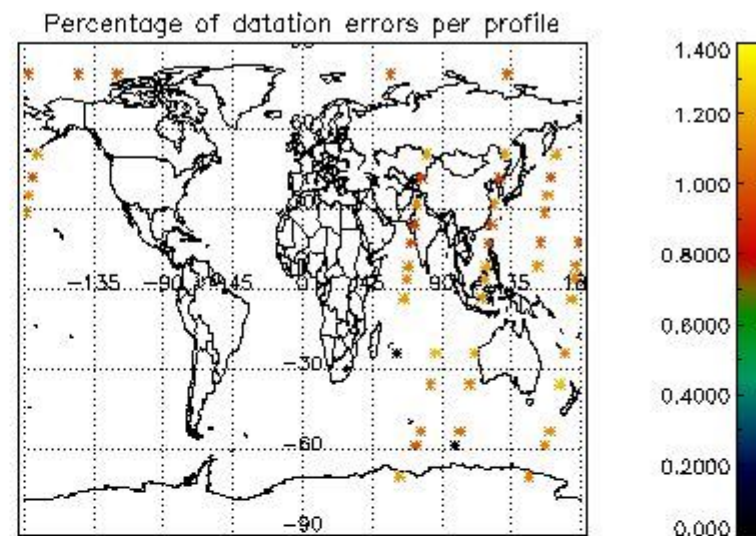
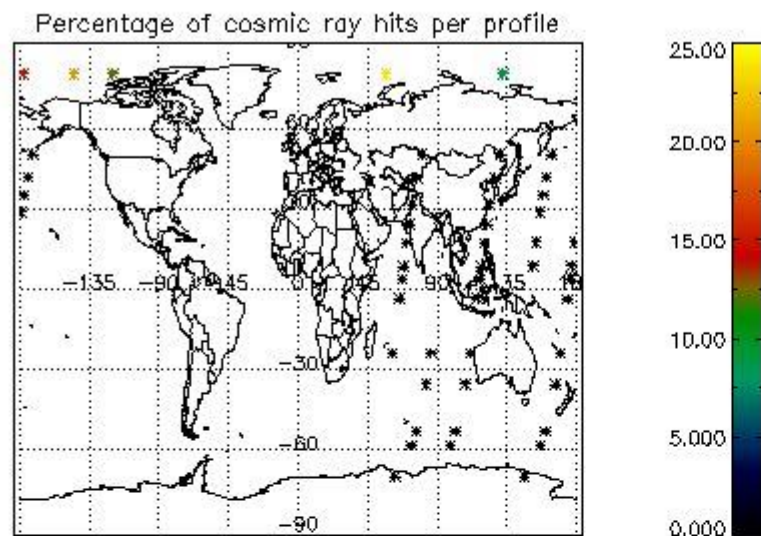
Percentage of star falling outside central band per profile



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

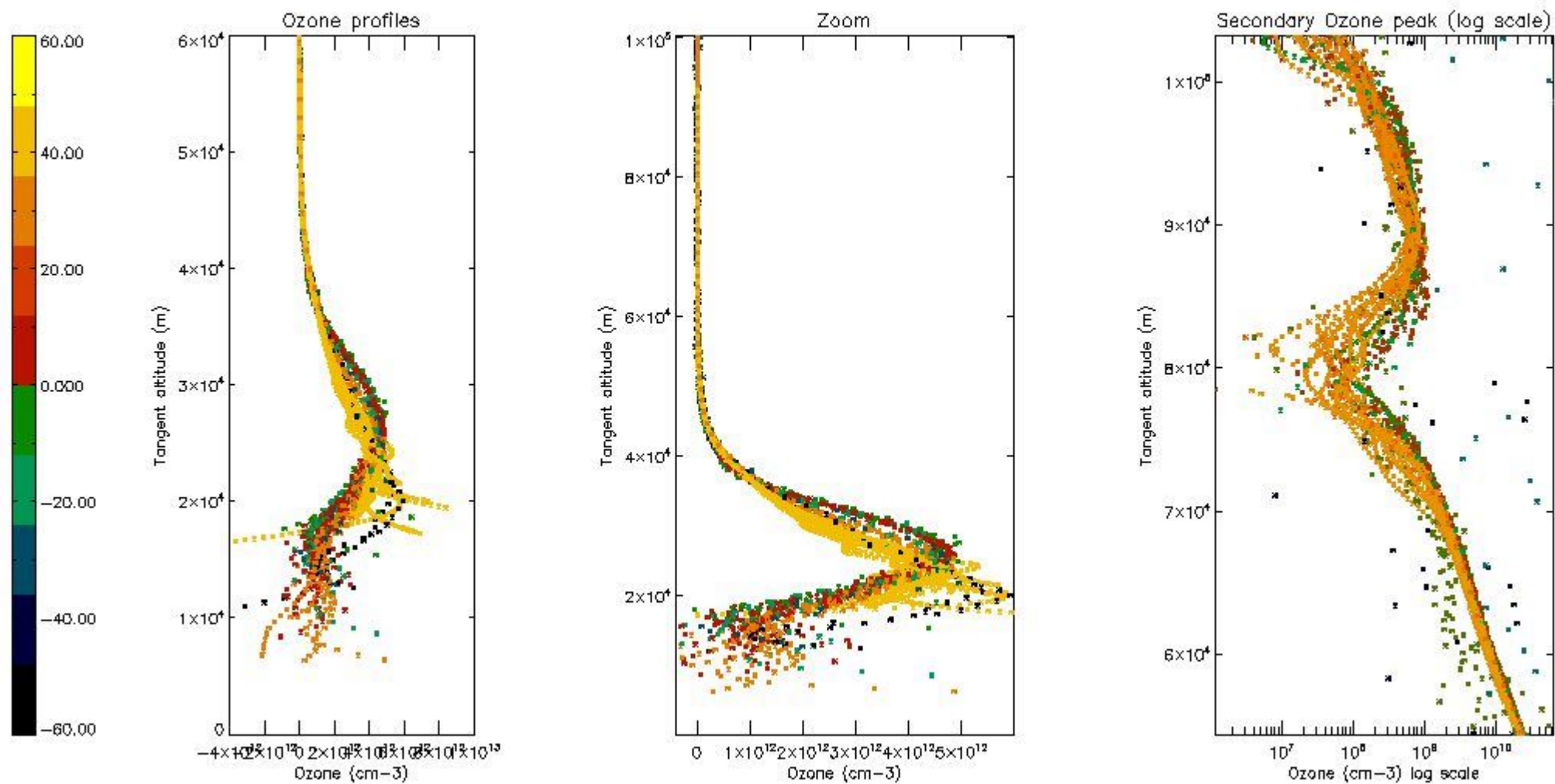
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	58
STD < 20	37

STD < 10	35
STD < 5	32

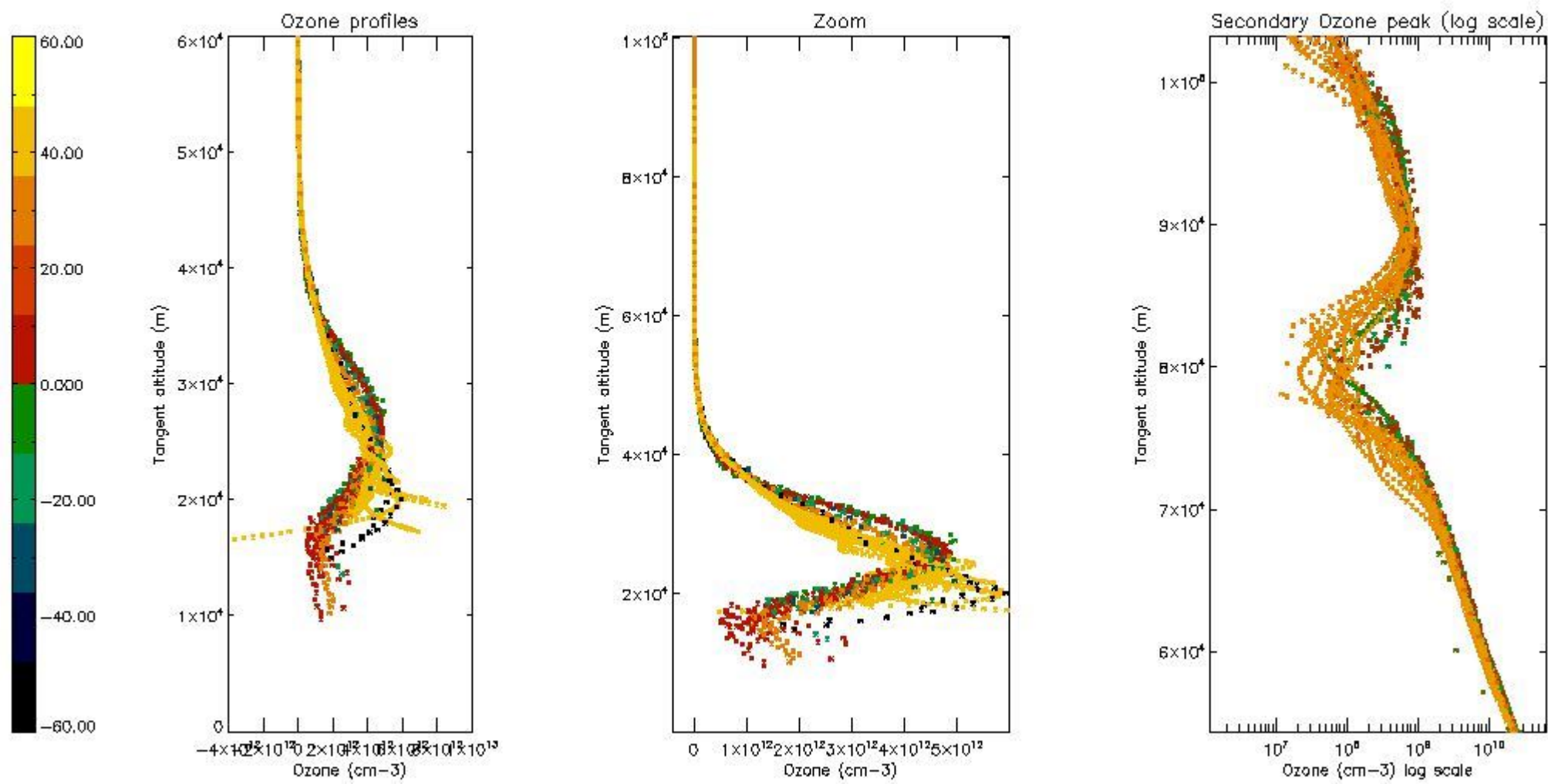
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



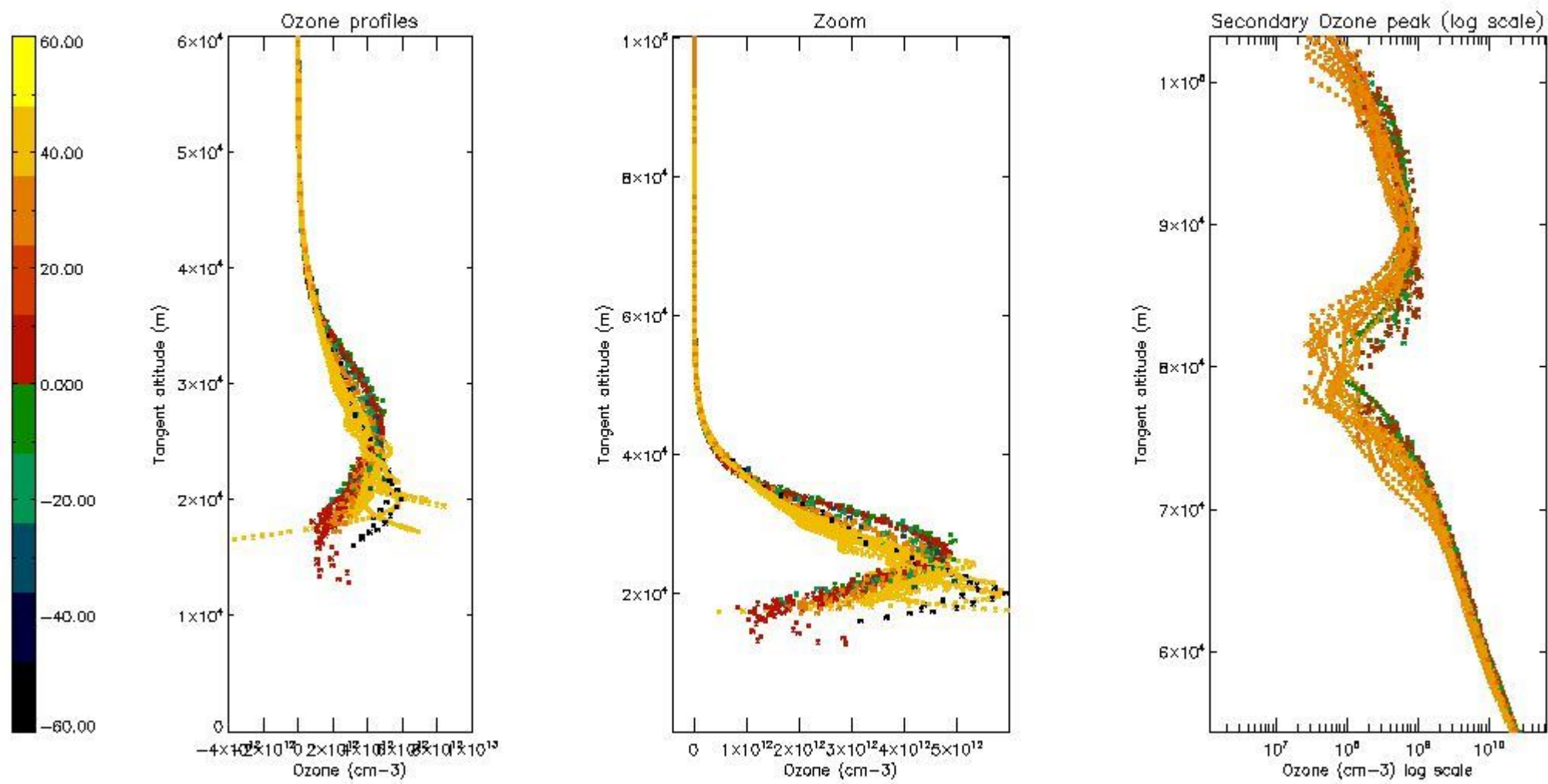
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



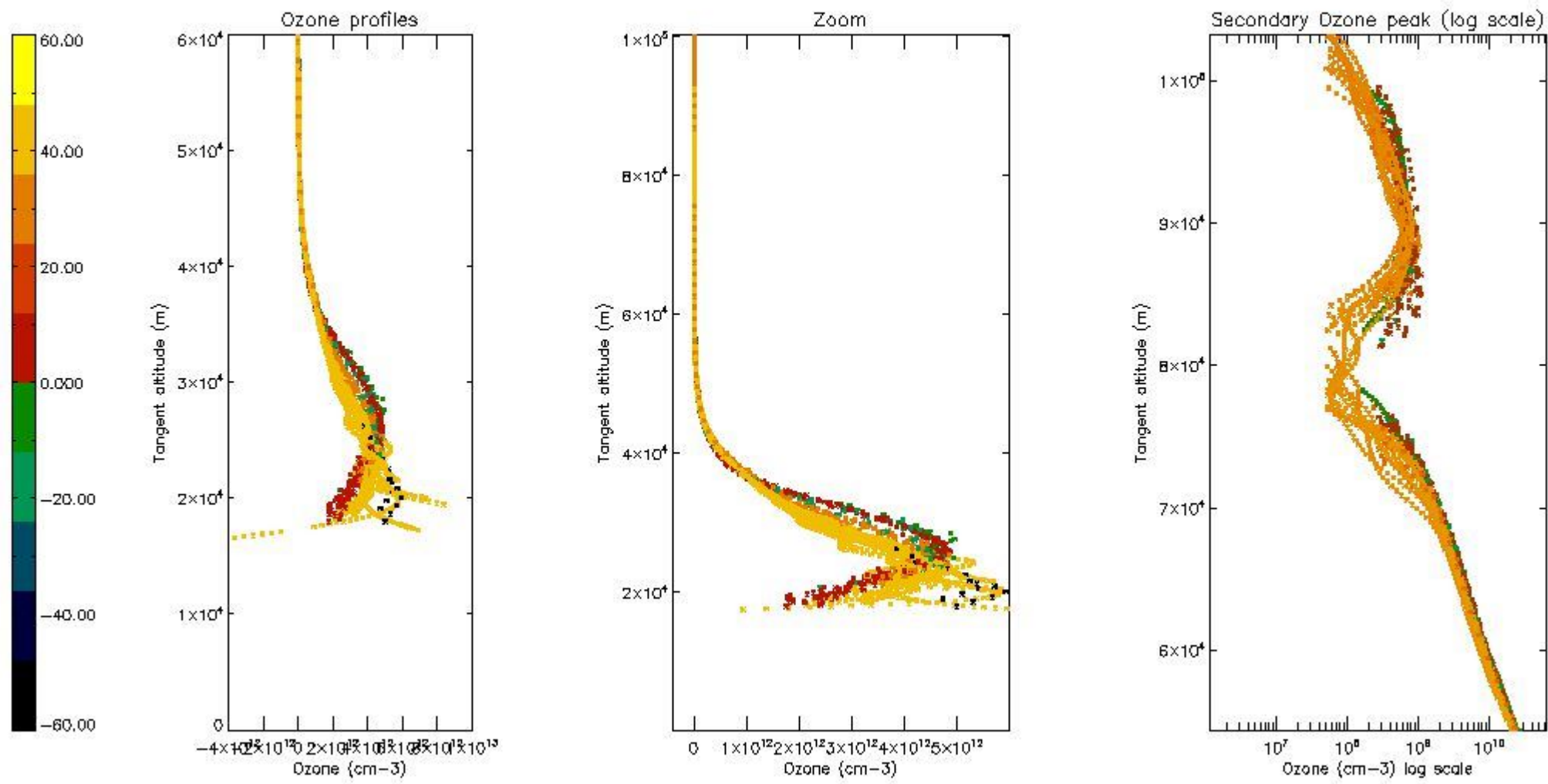
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



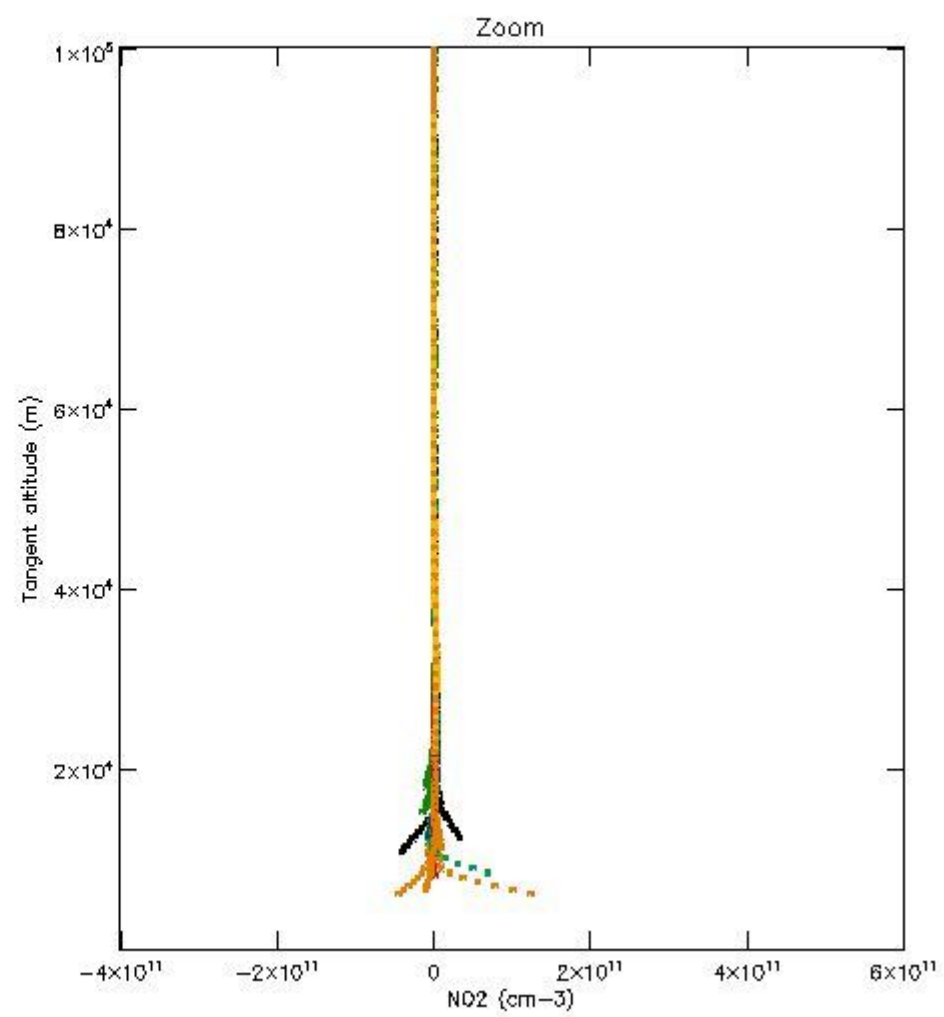
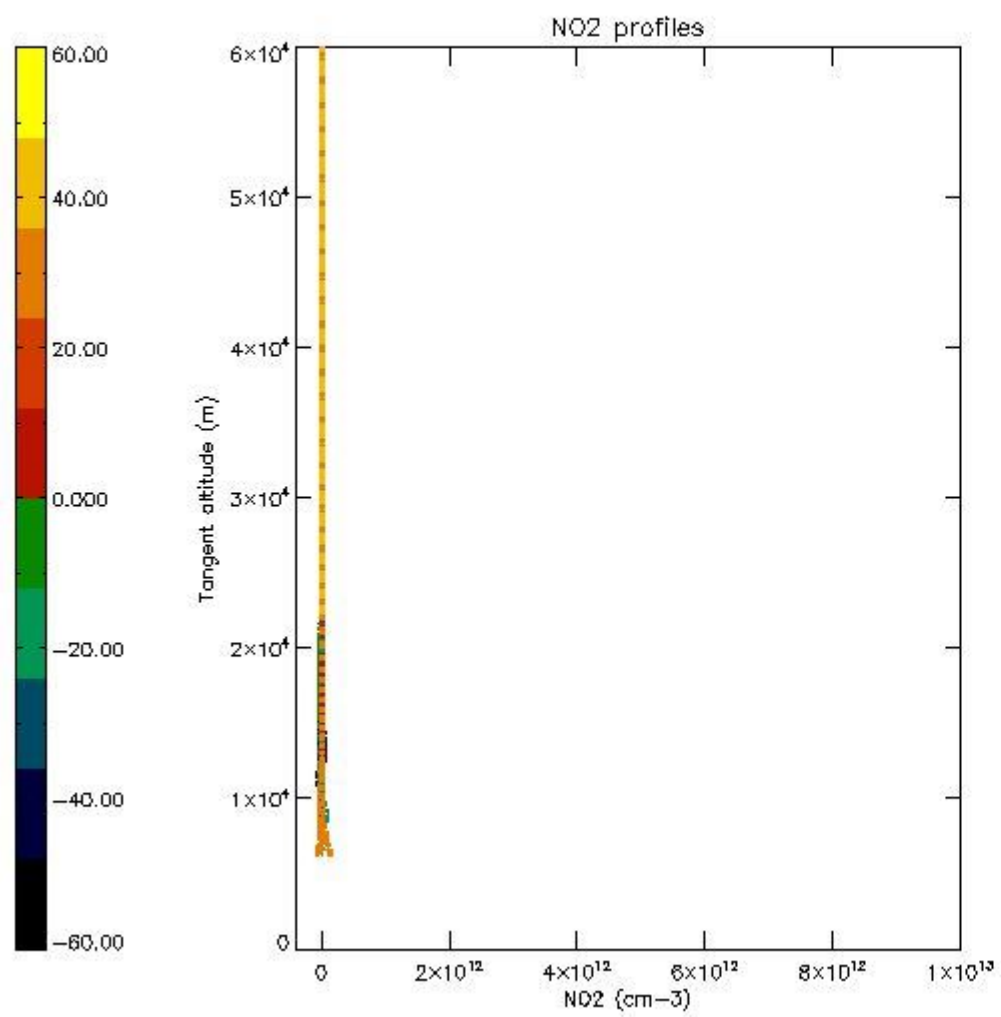
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



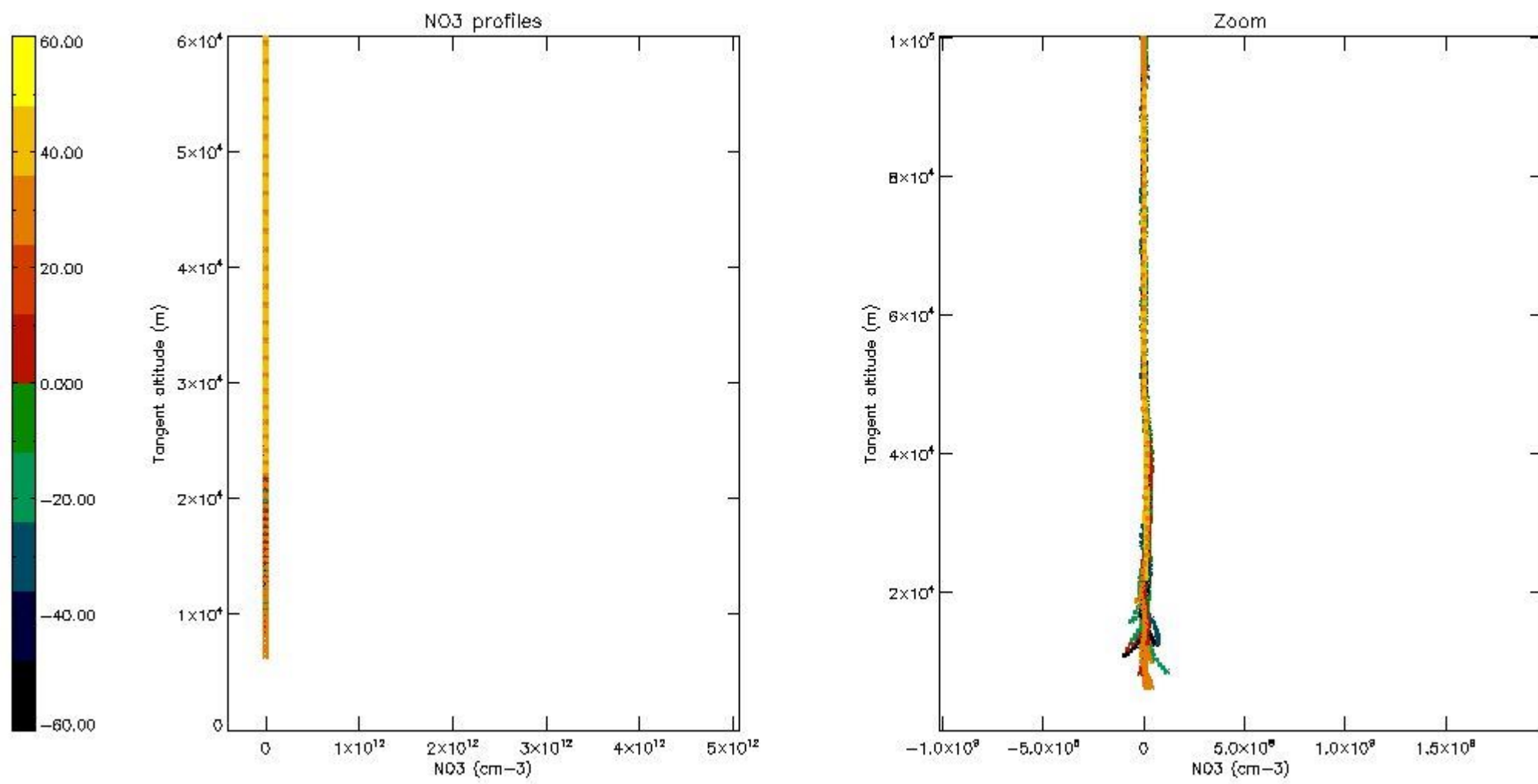
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



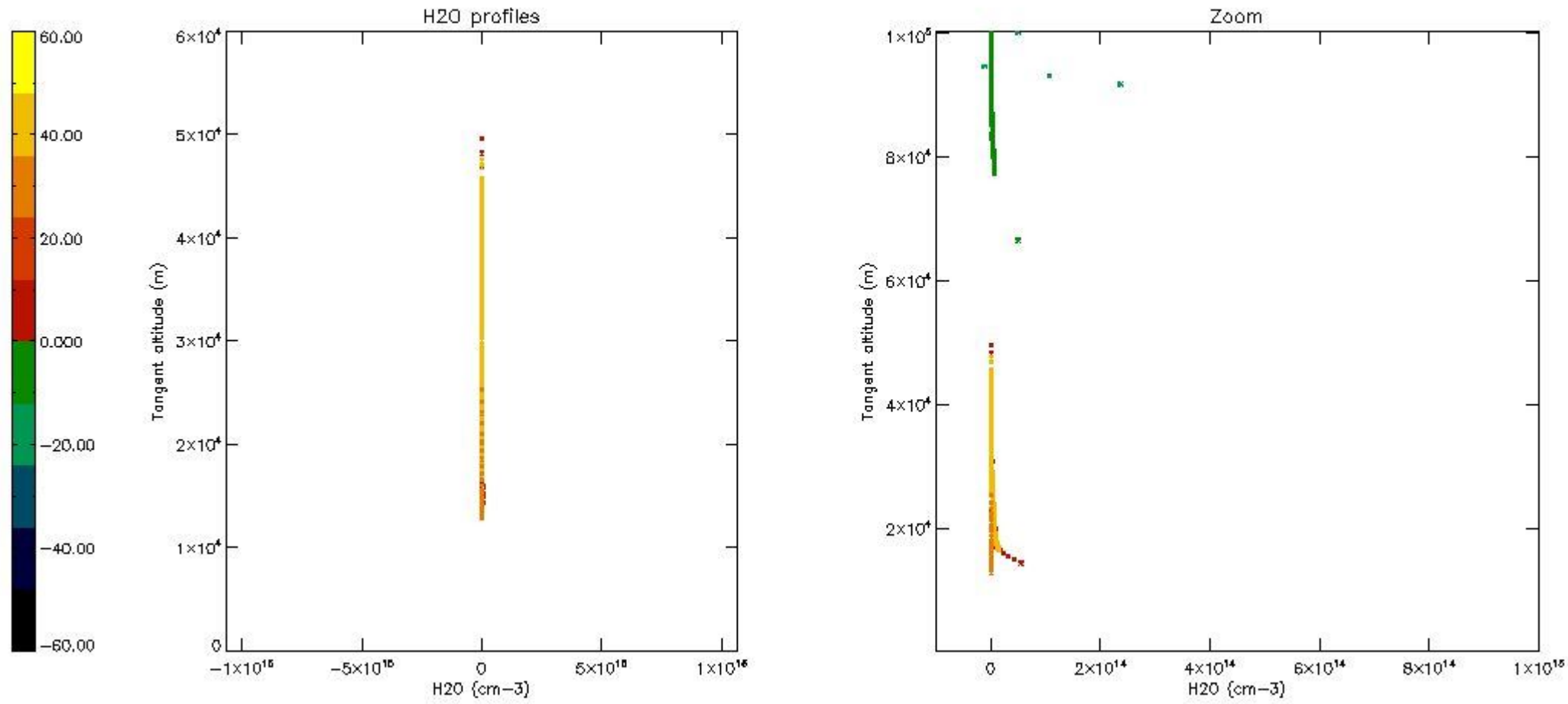
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

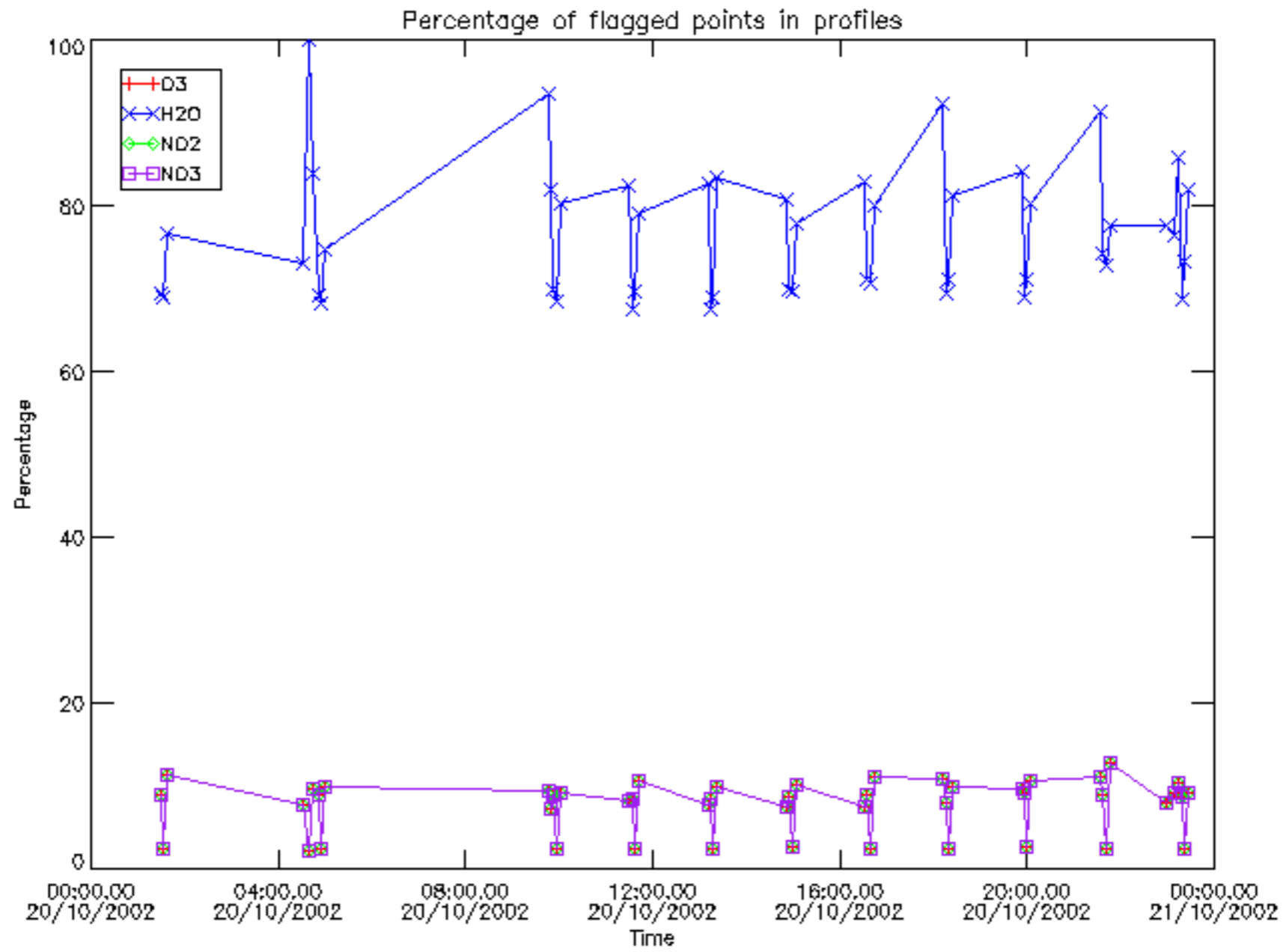
The colorbar represents the latitude.



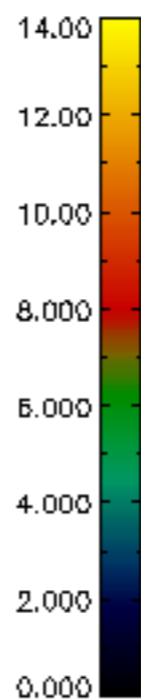
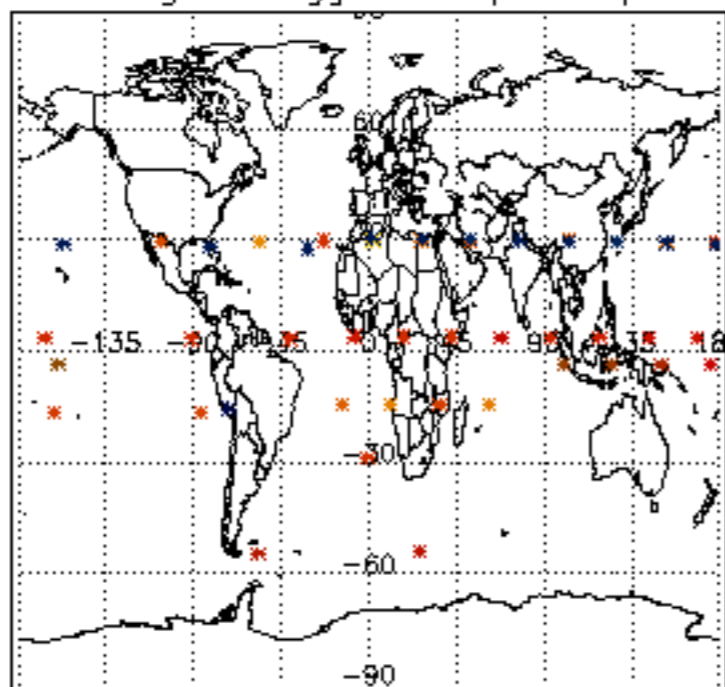
6. Auxiliary Data Files used for the production reported in section 2

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.

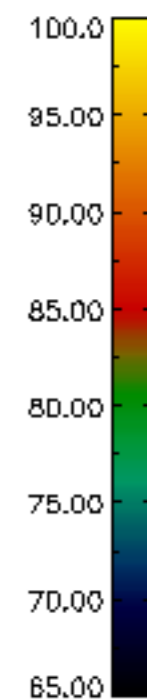
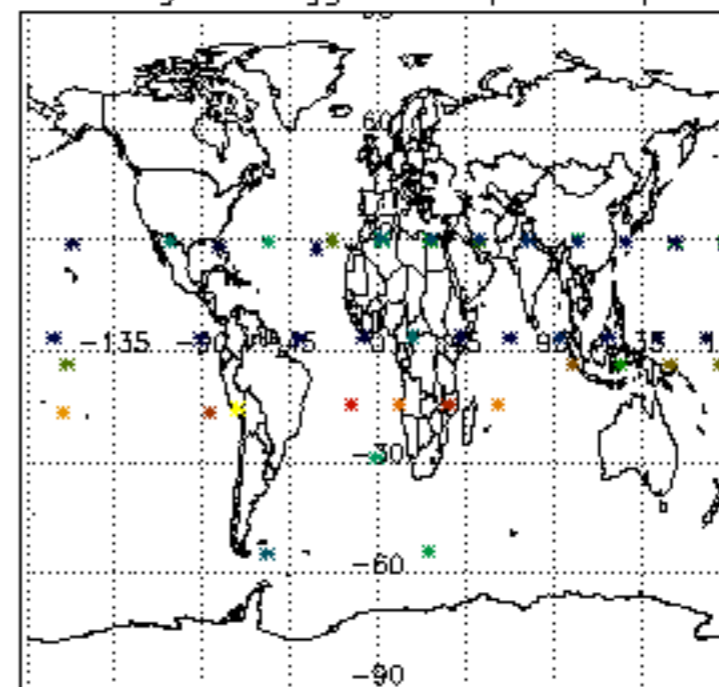
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	20-OCT-2002 01:29:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-OCT-2002 01:29:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-OCT-2002 01:29:55



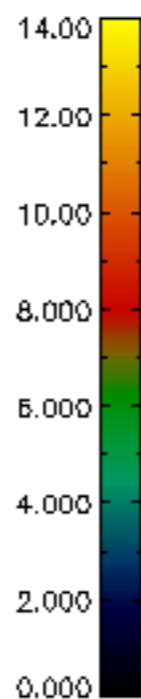
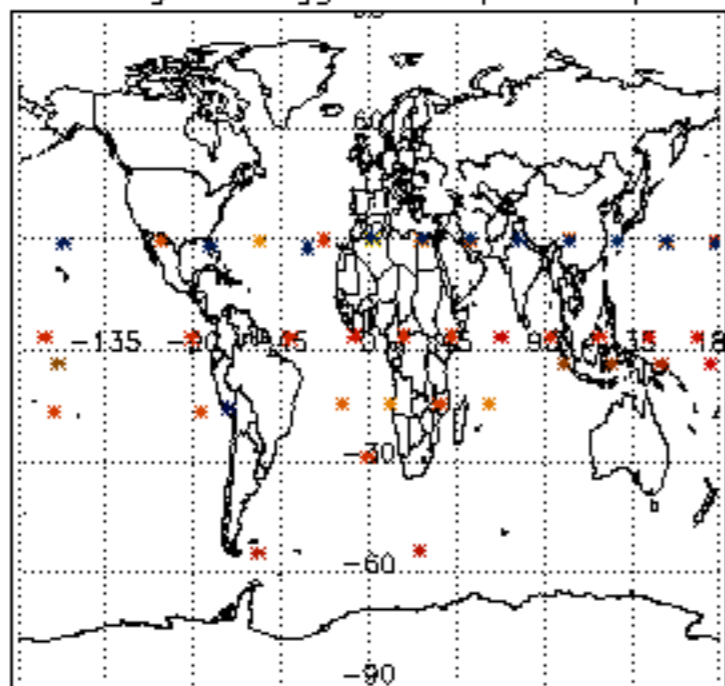
Percentage of flagged data per D3 profile



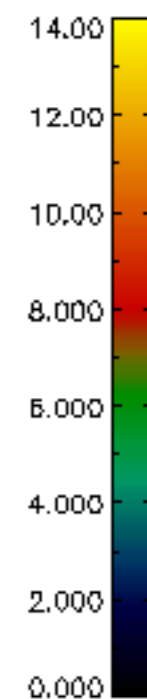
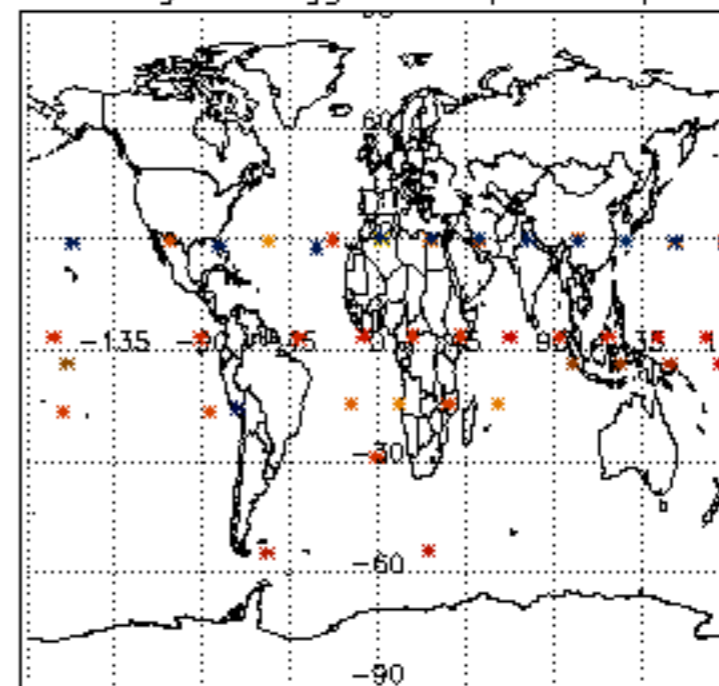
Percentage of flagged data per H2O profile

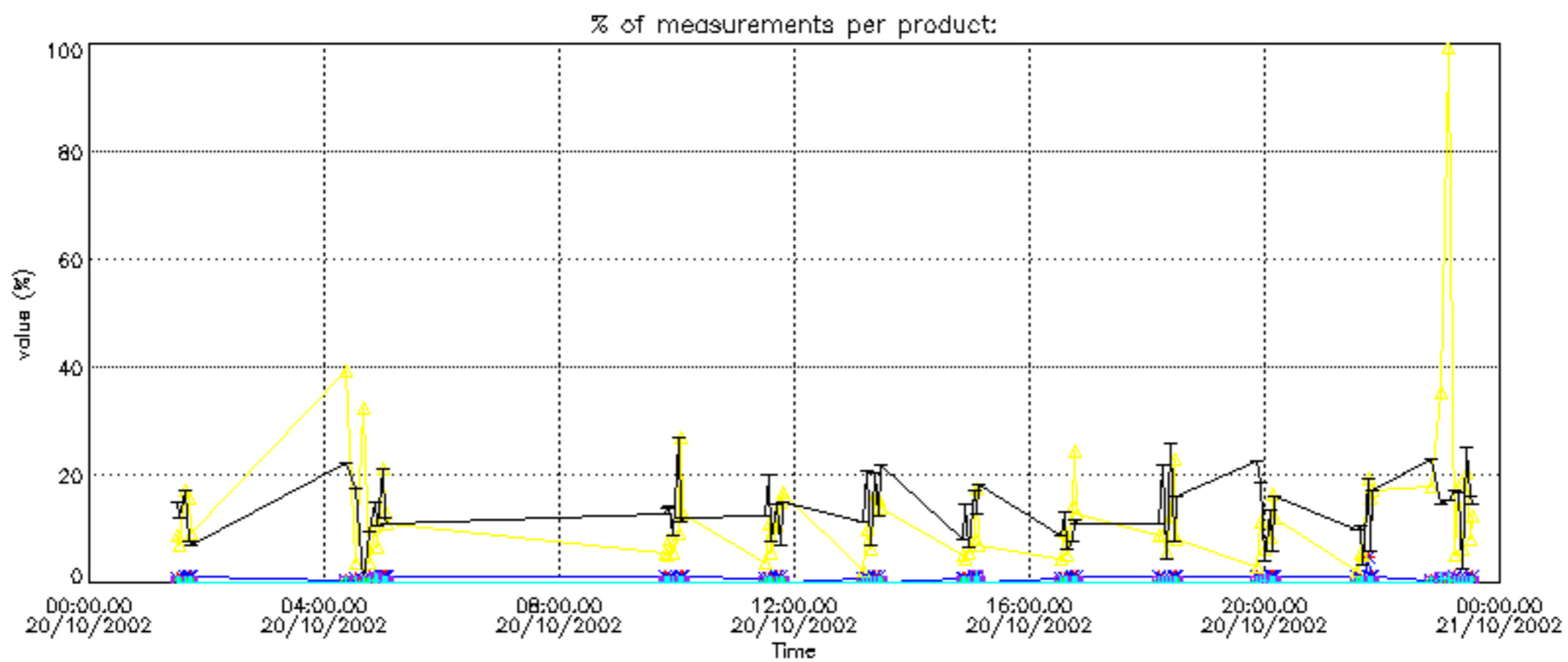
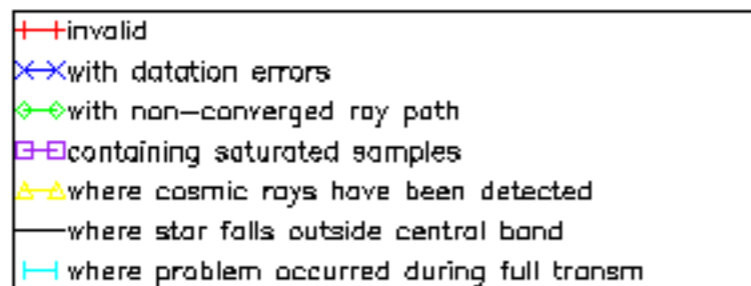


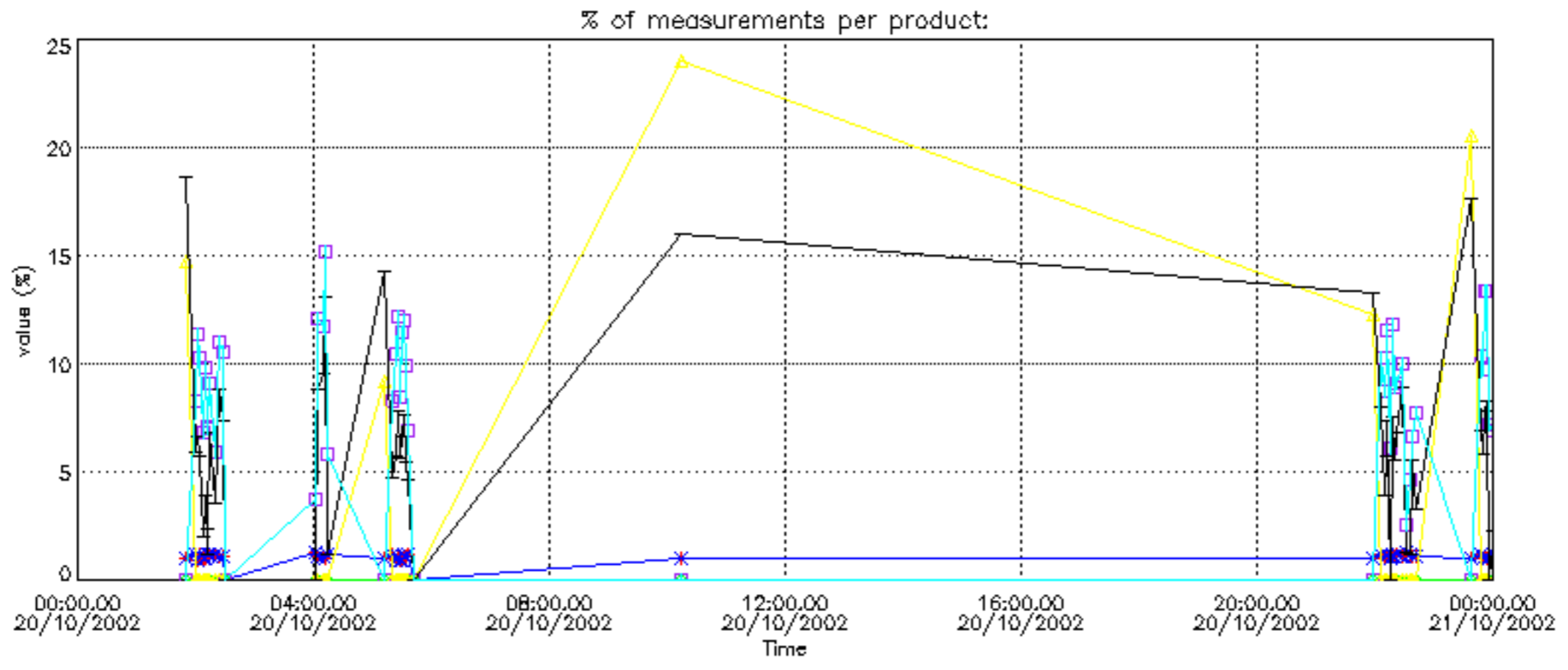
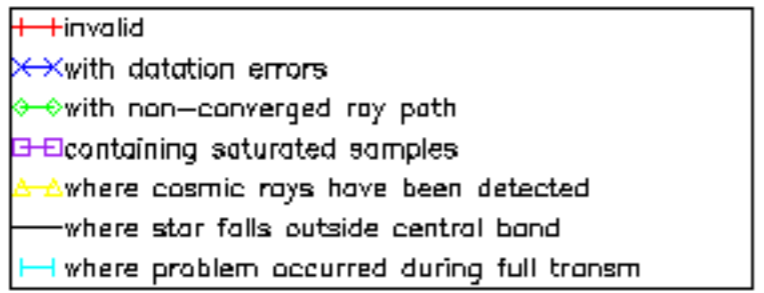
Percentage of flagged data per NO2 profile



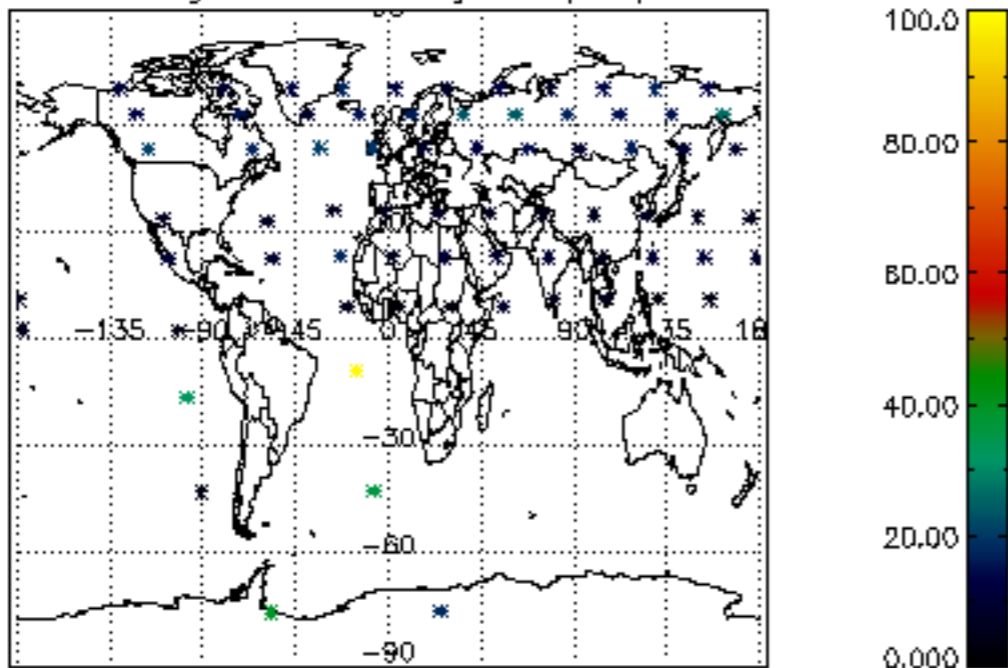
Percentage of flagged data per NO3 profile



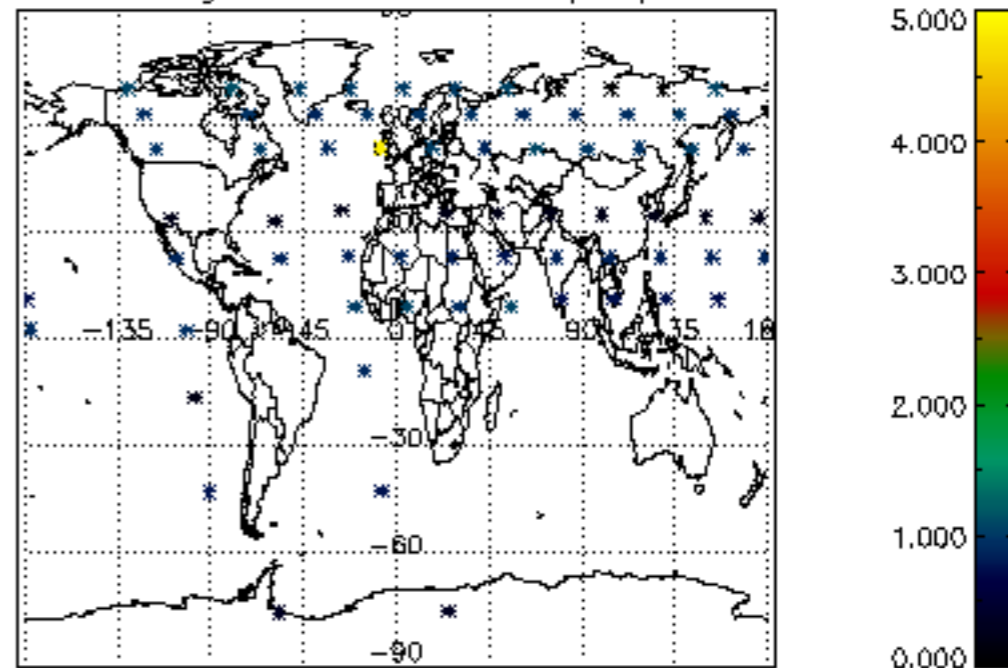




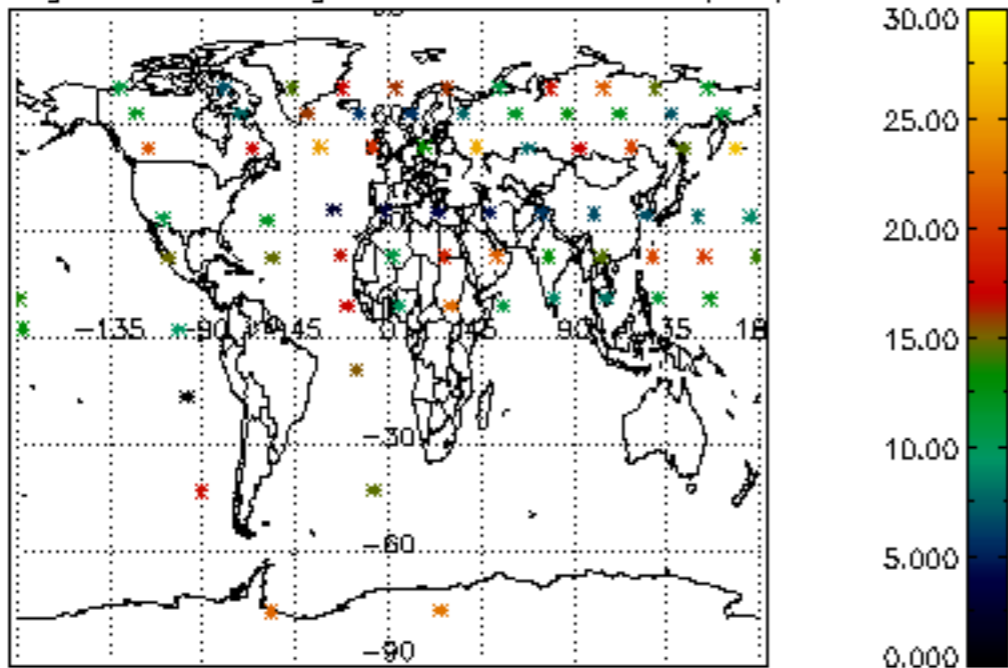
Percentage of cosmic ray hits per profile



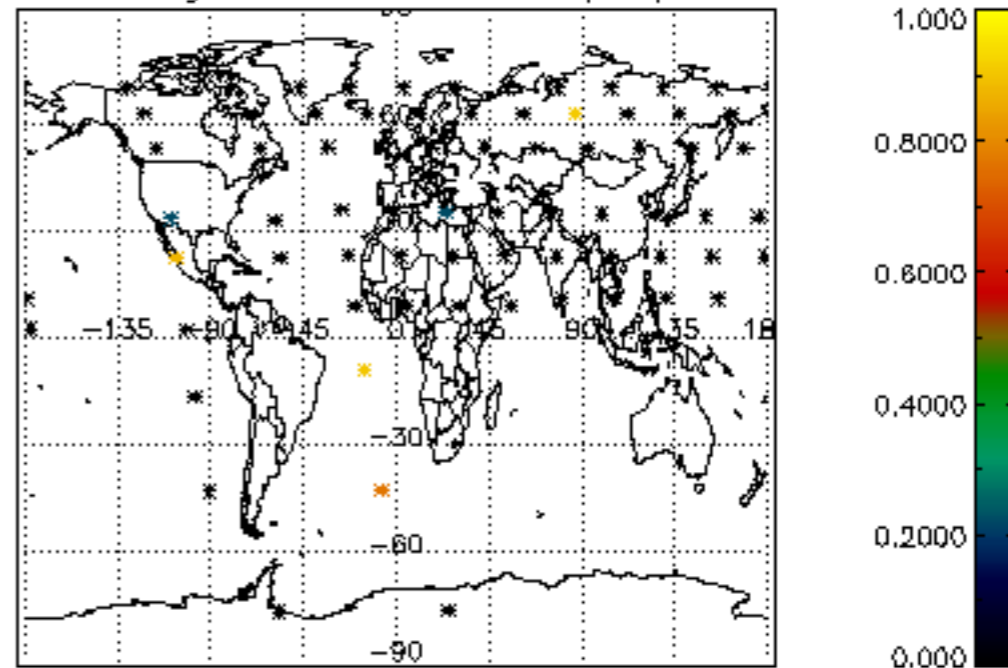
Percentage of datation errors per profile



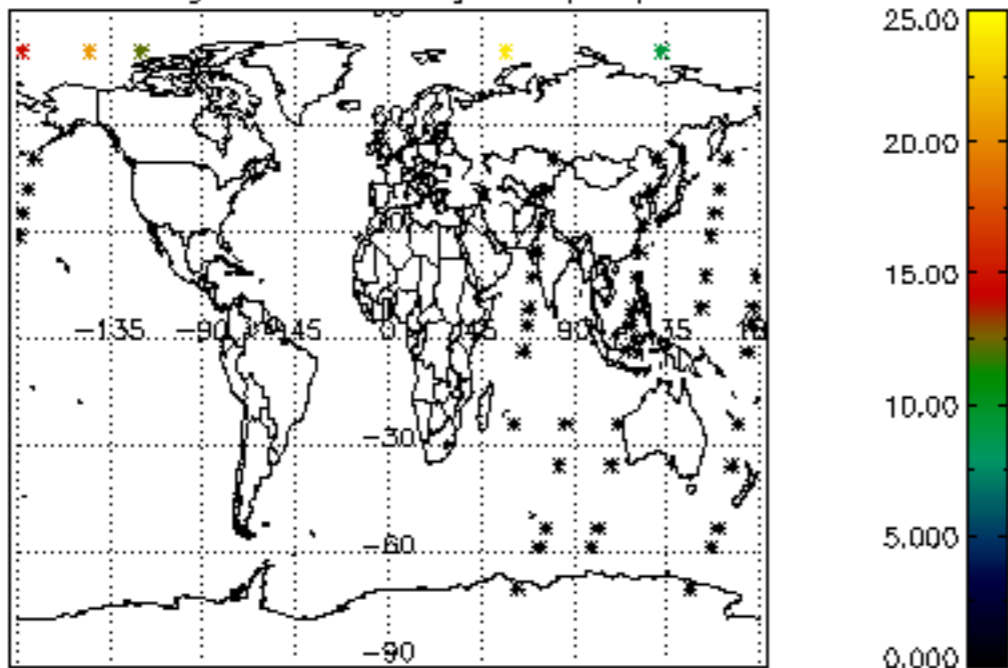
Percentage of star falling outside central band per profile



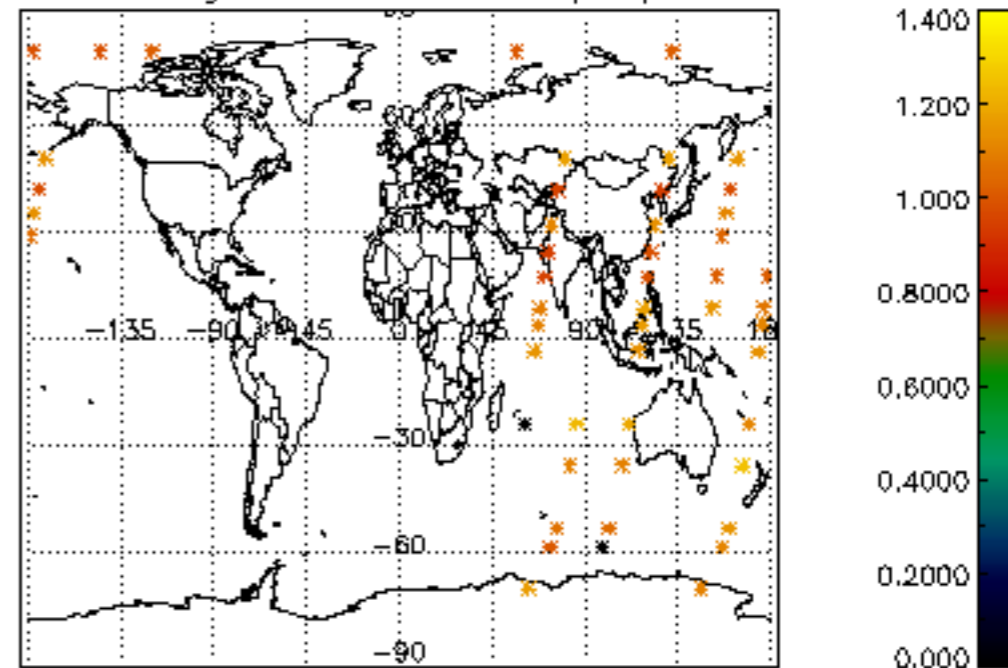
Percentage of saturation errors per profile



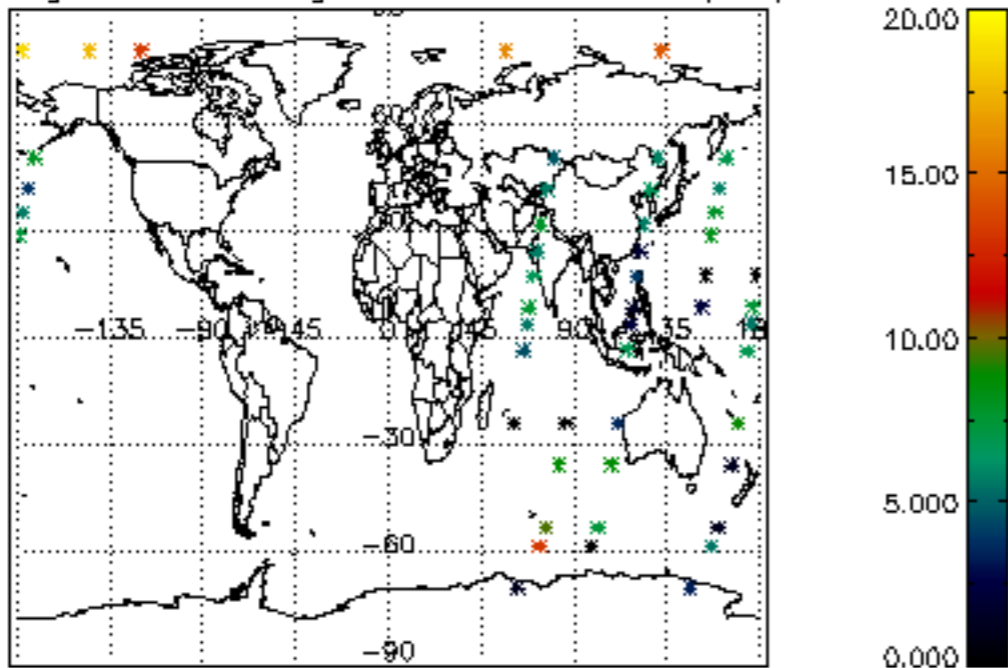
Percentage of cosmic ray hits per profile



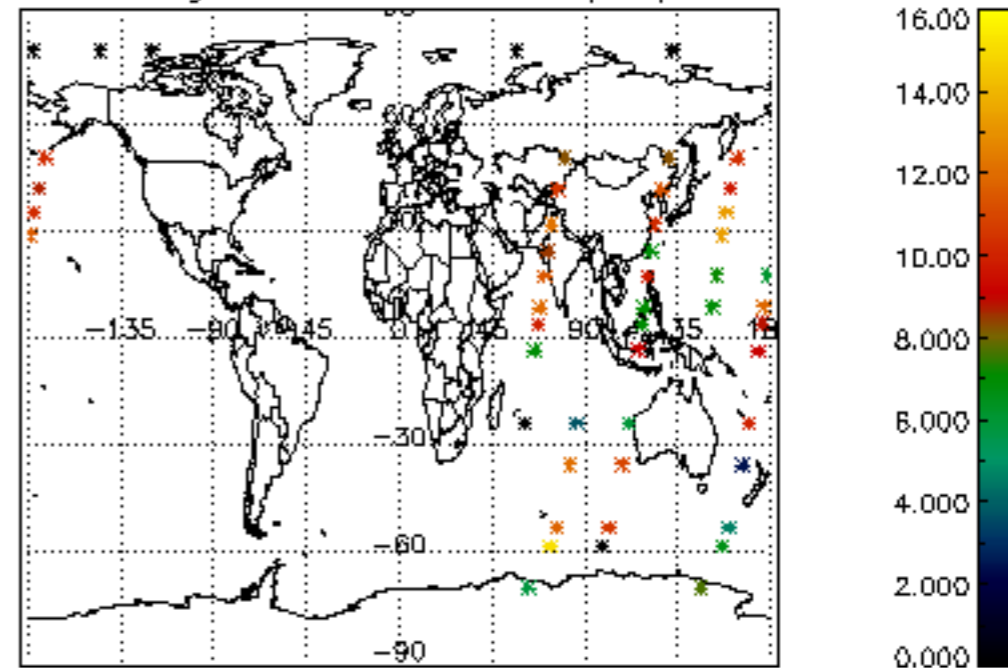
Percentage of datation errors per profile

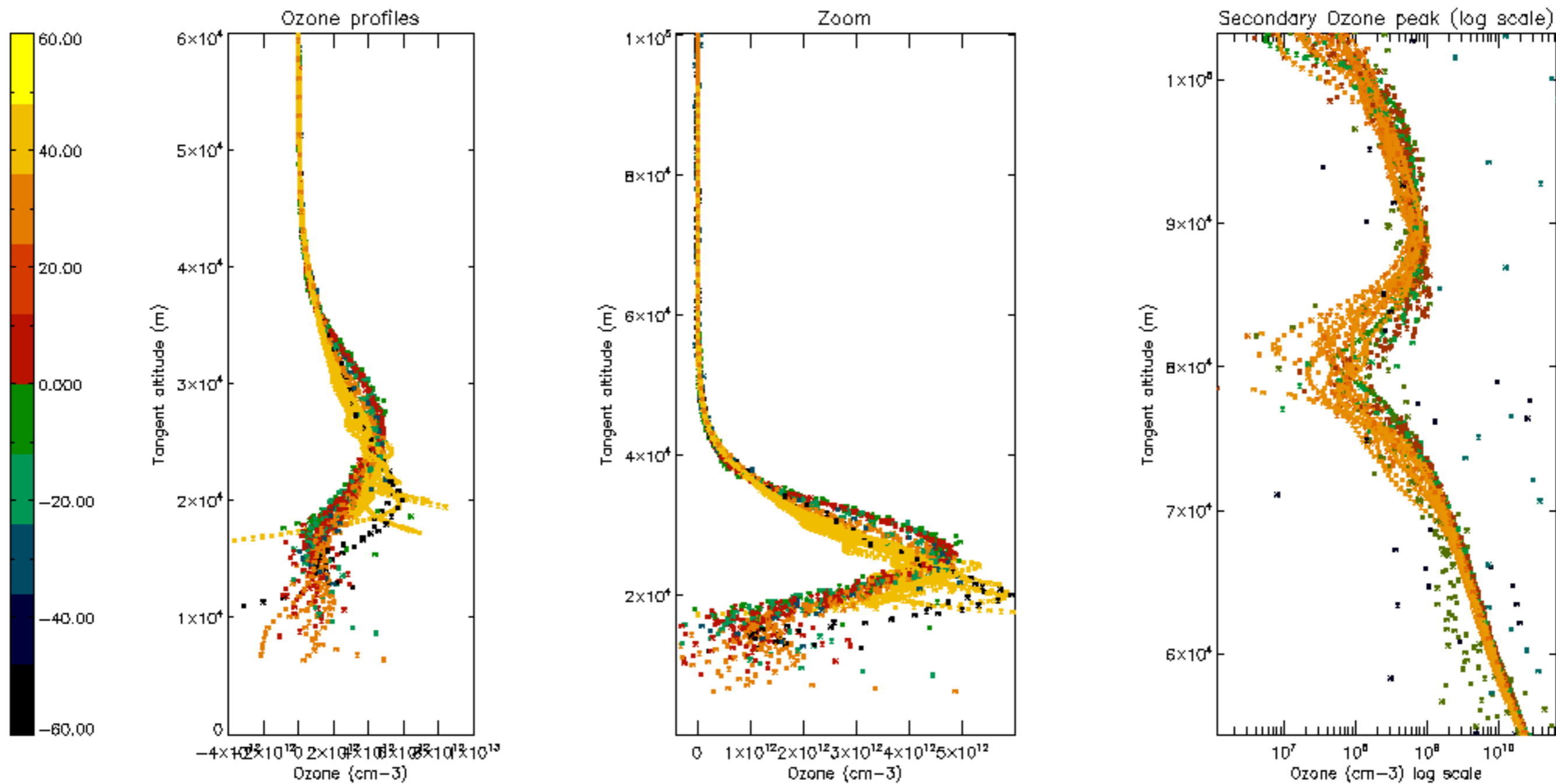


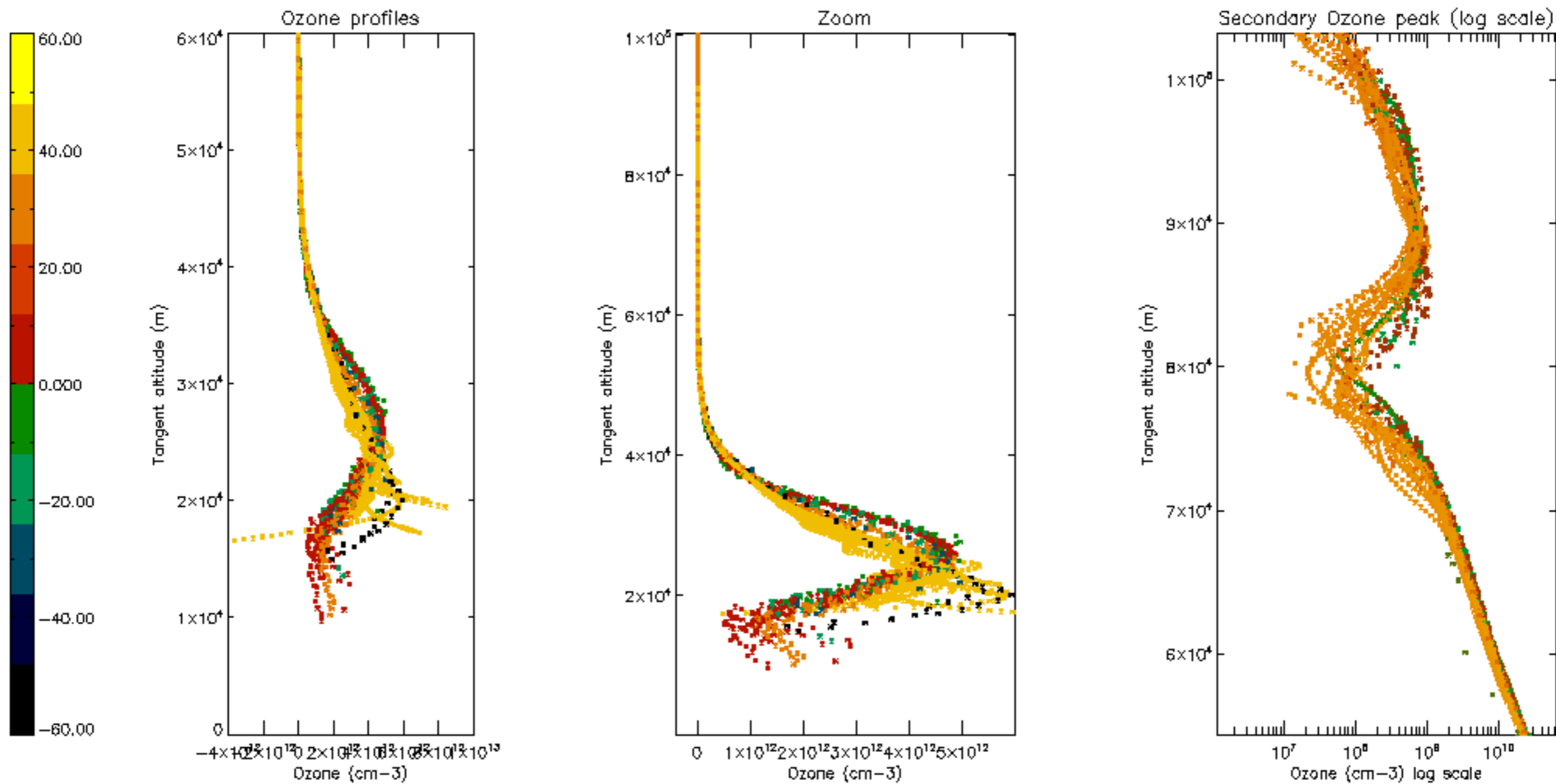
Percentage of star falling outside central band per profile

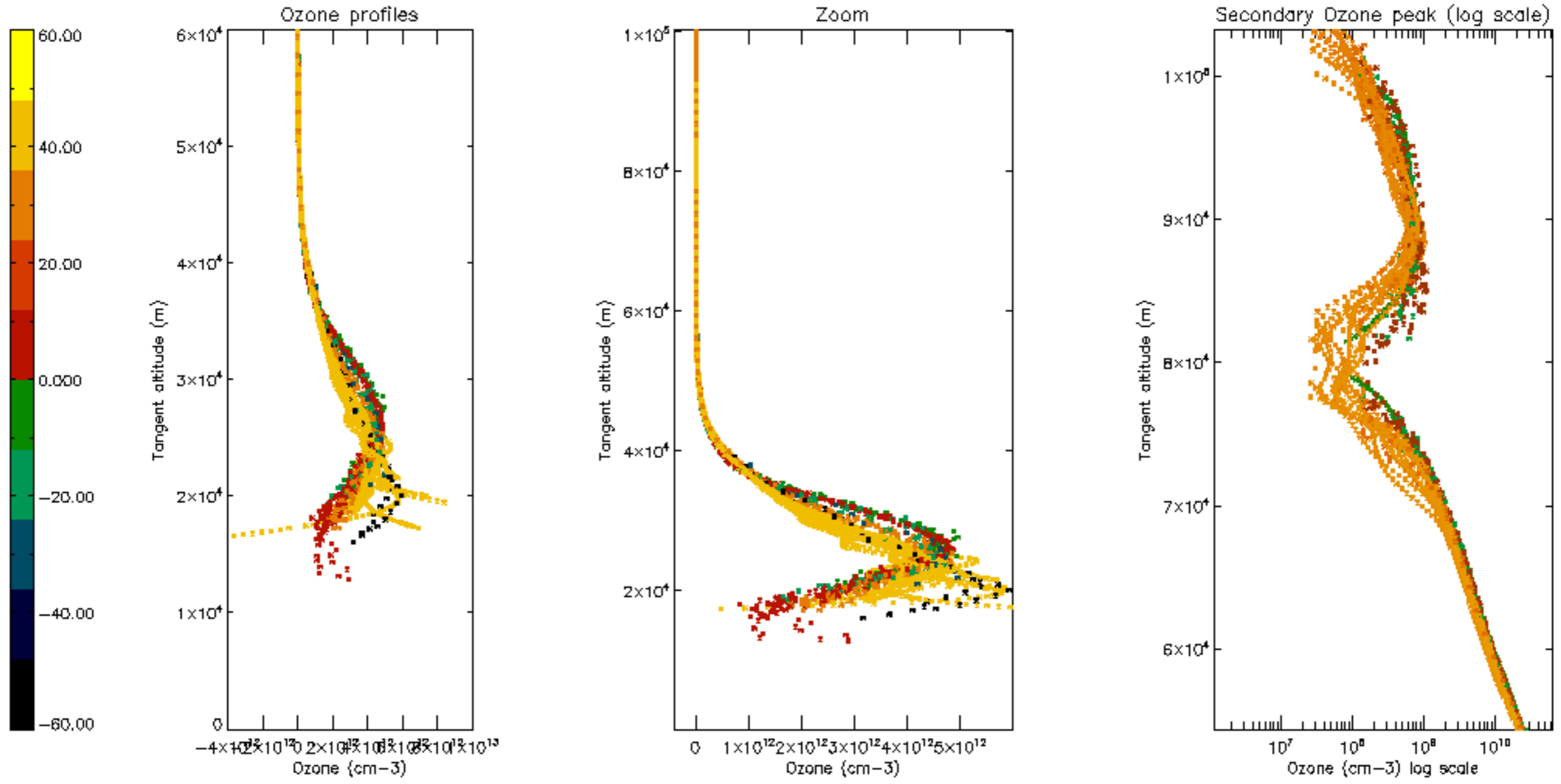


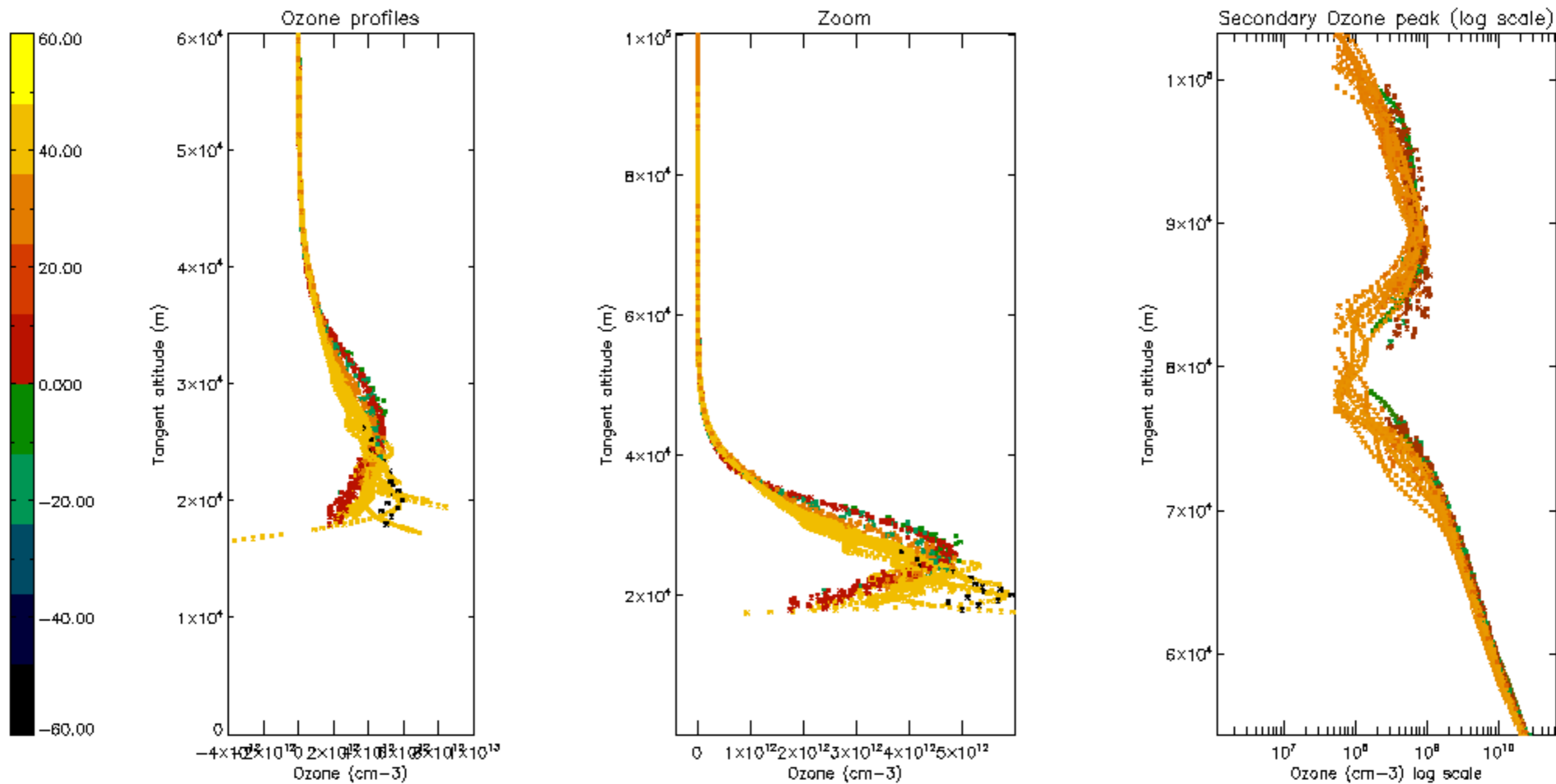
Percentage of saturation errors per profile

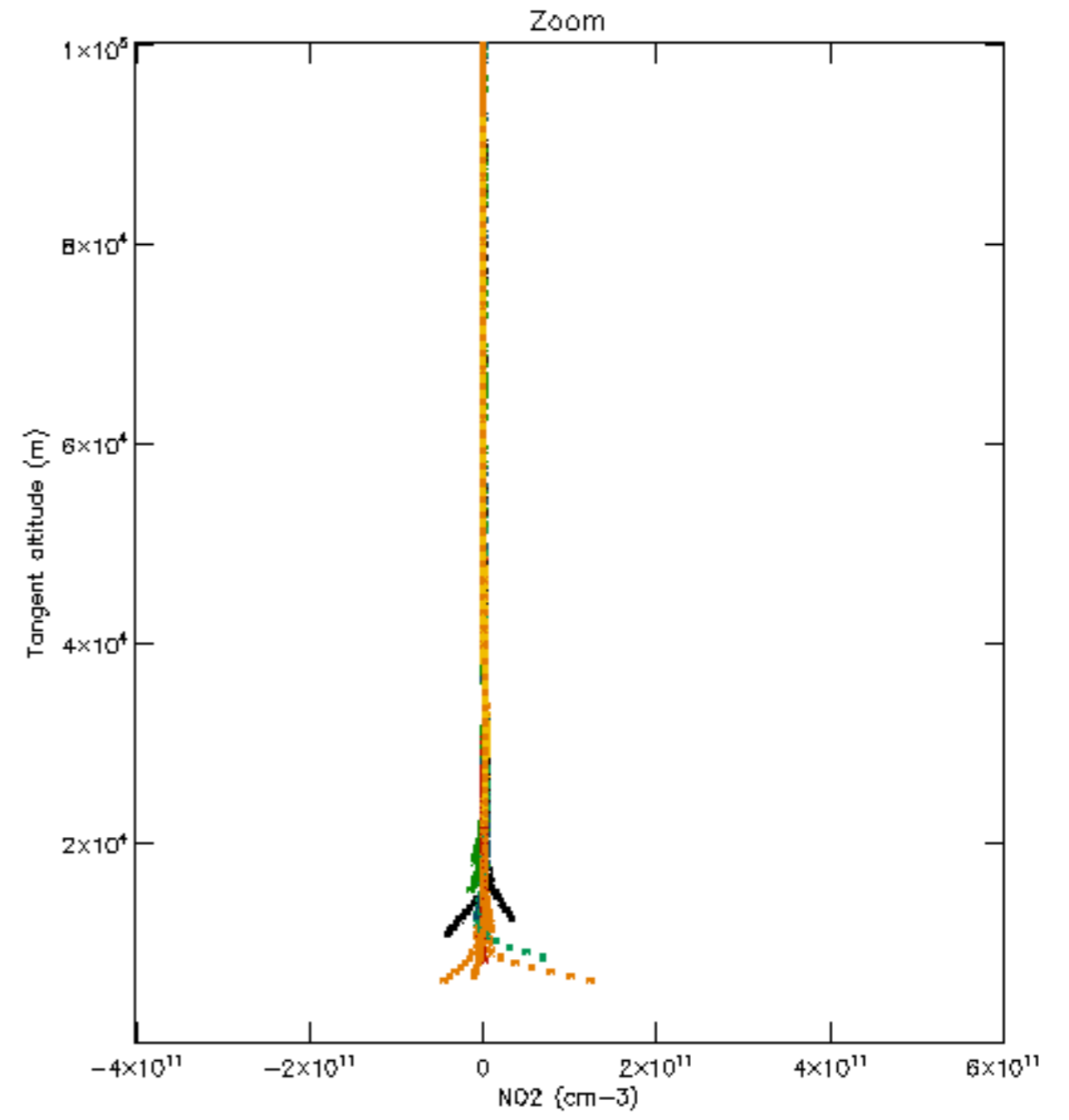
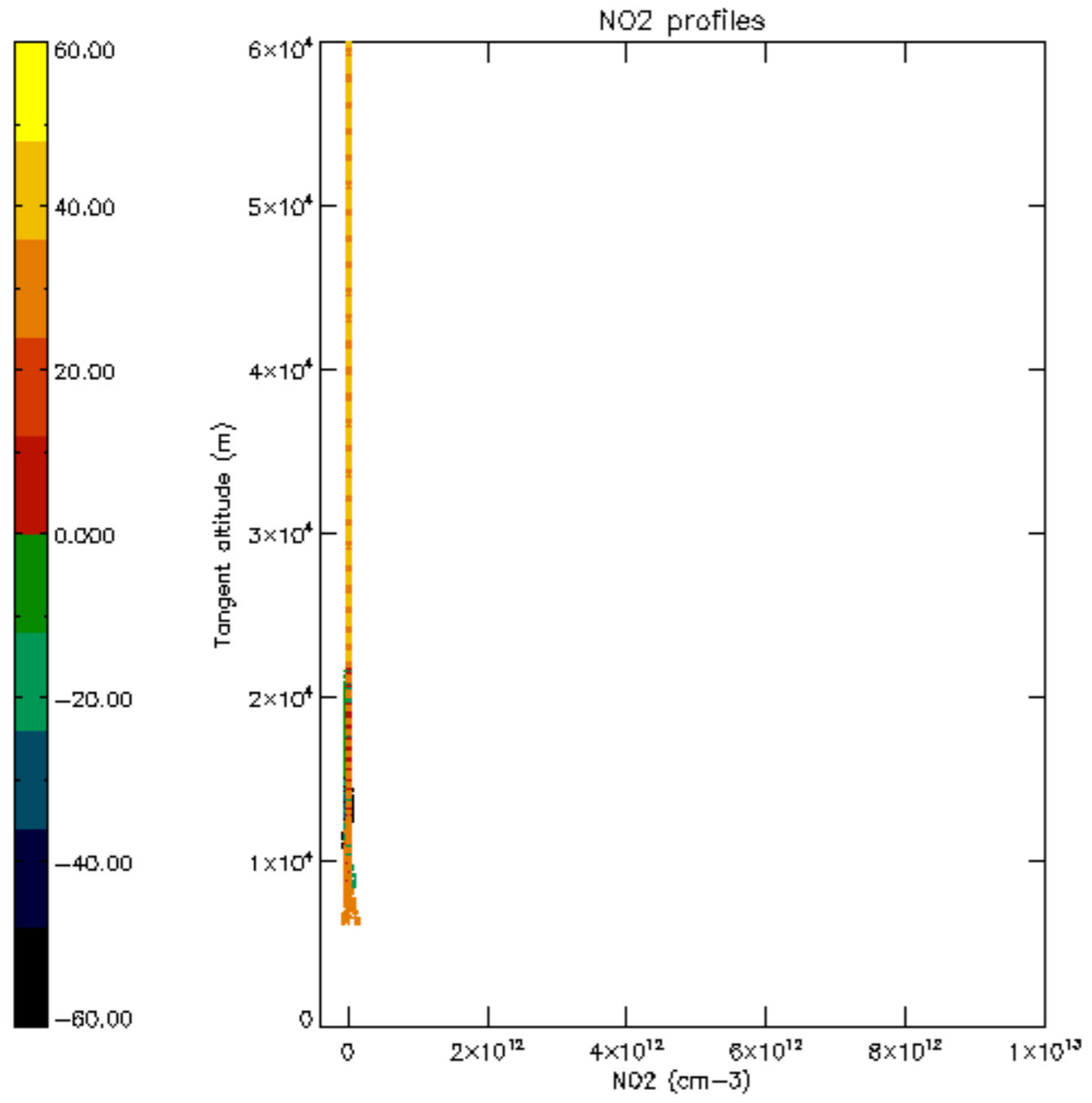


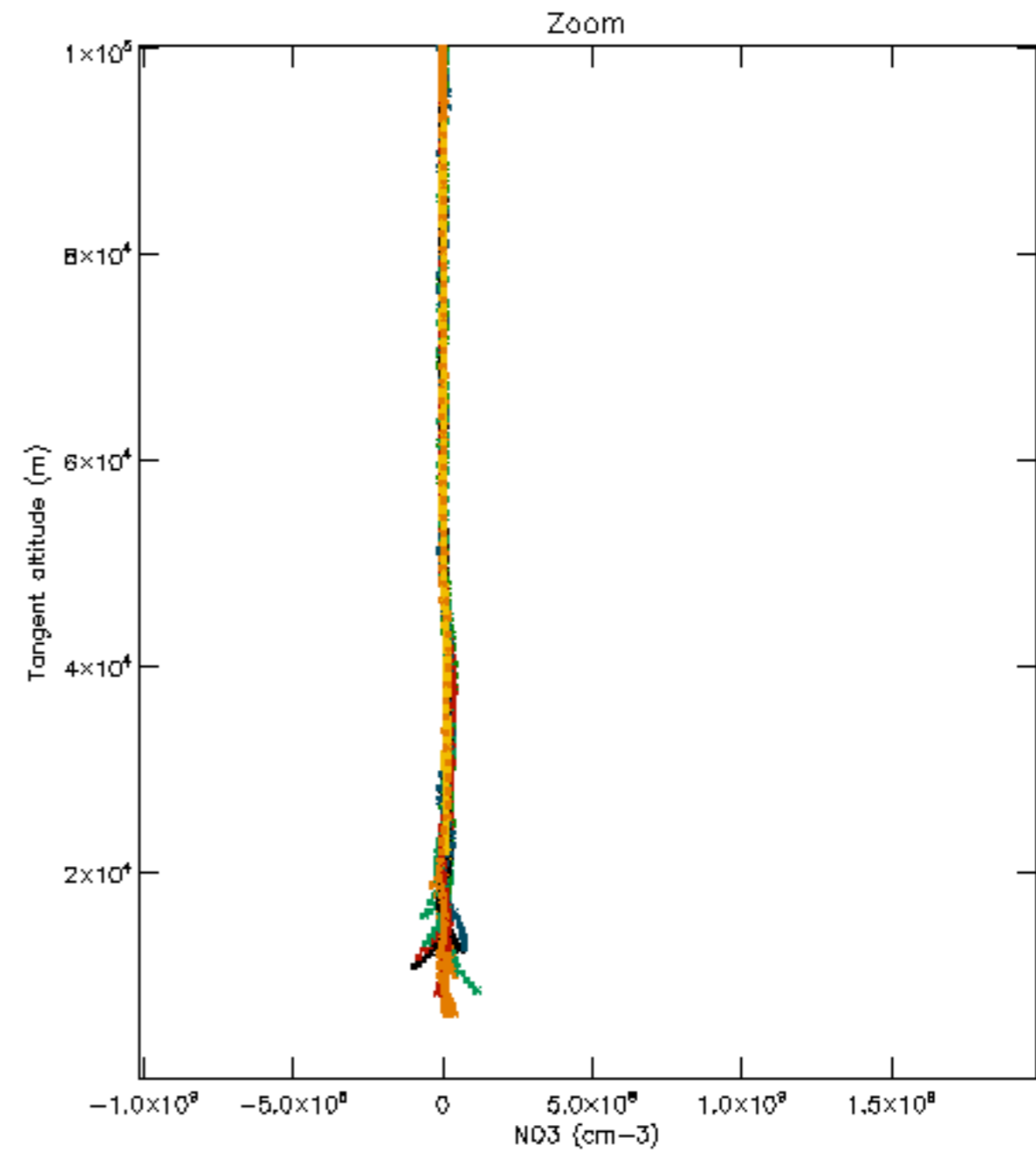
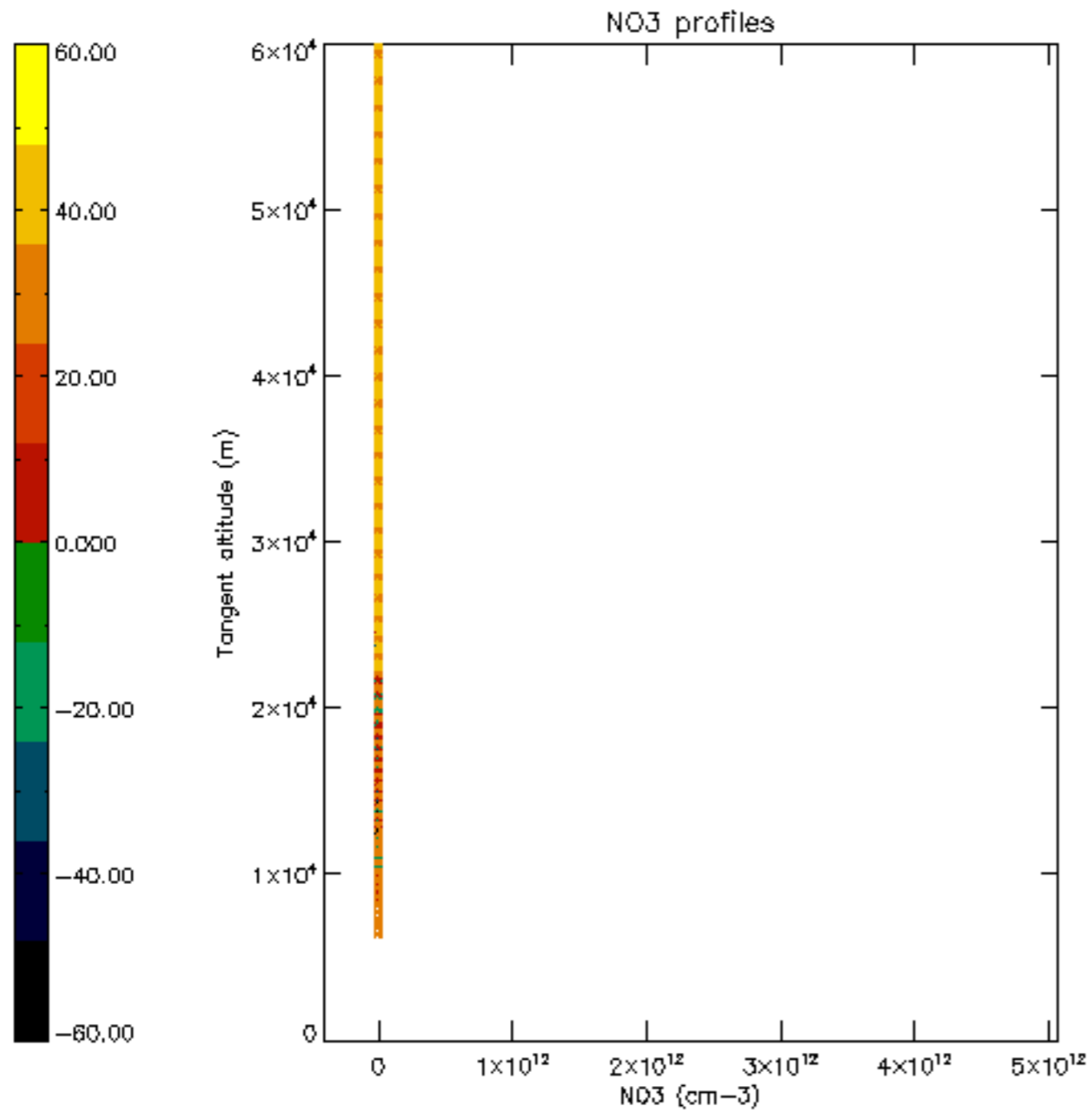


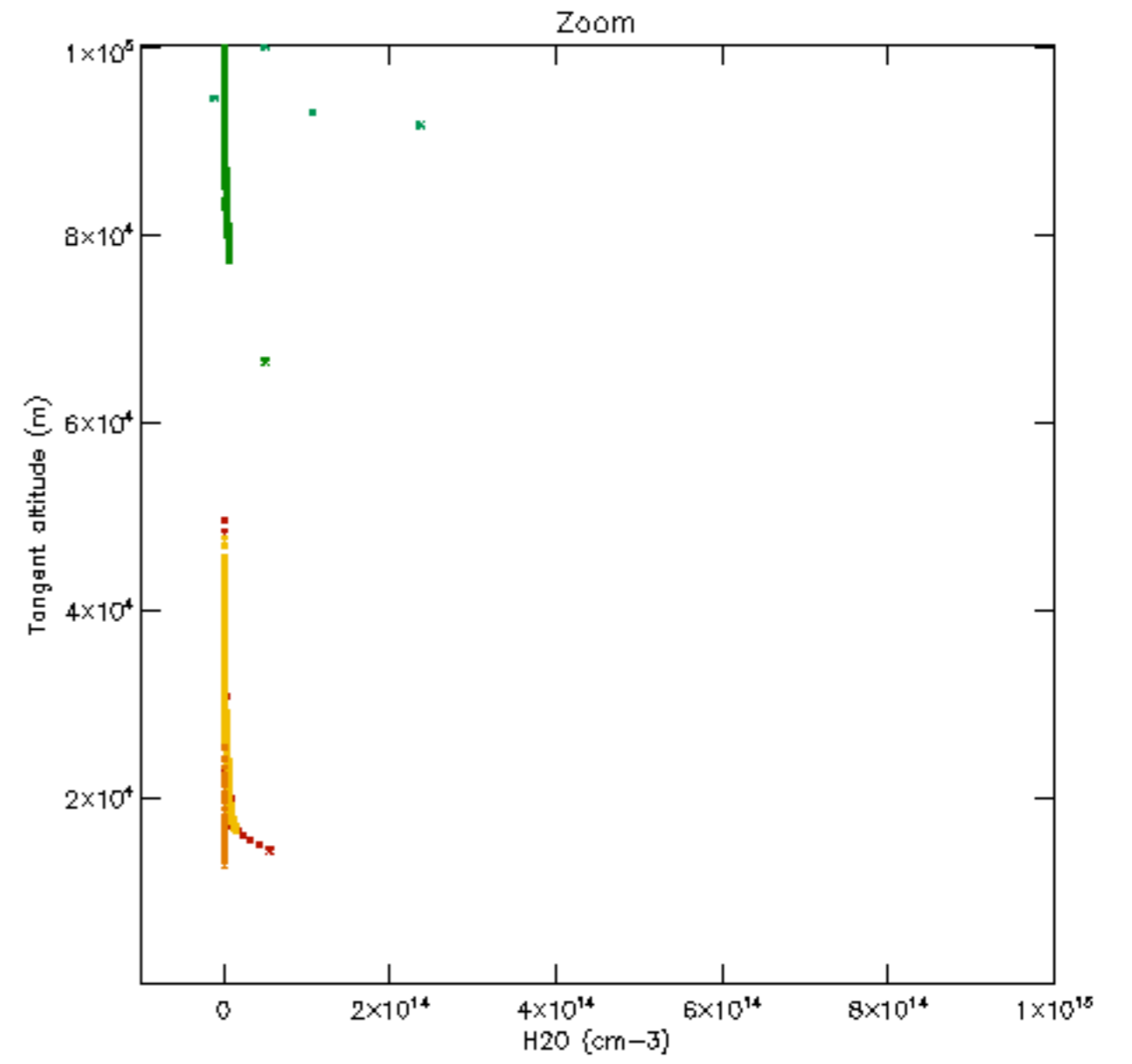
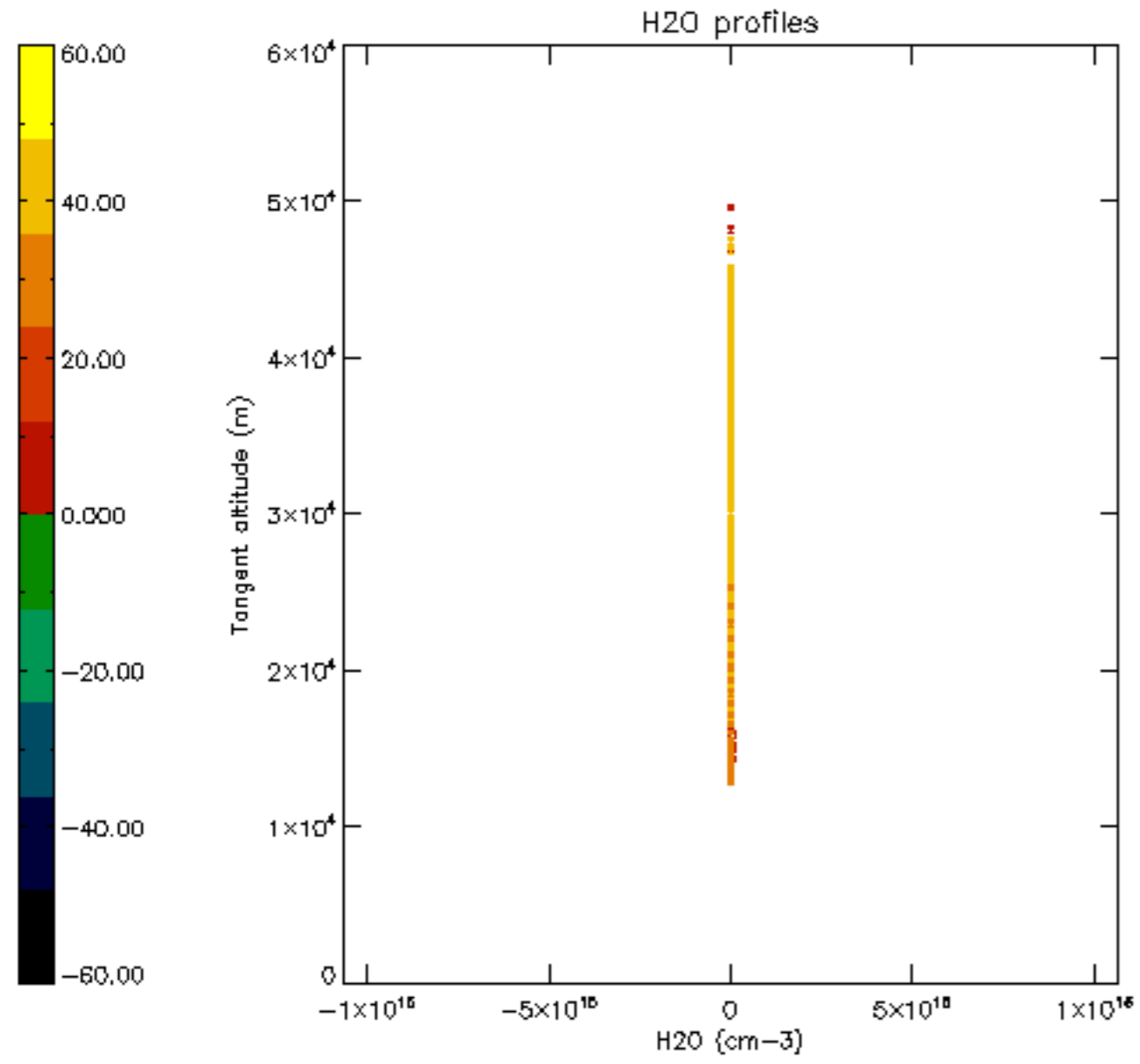


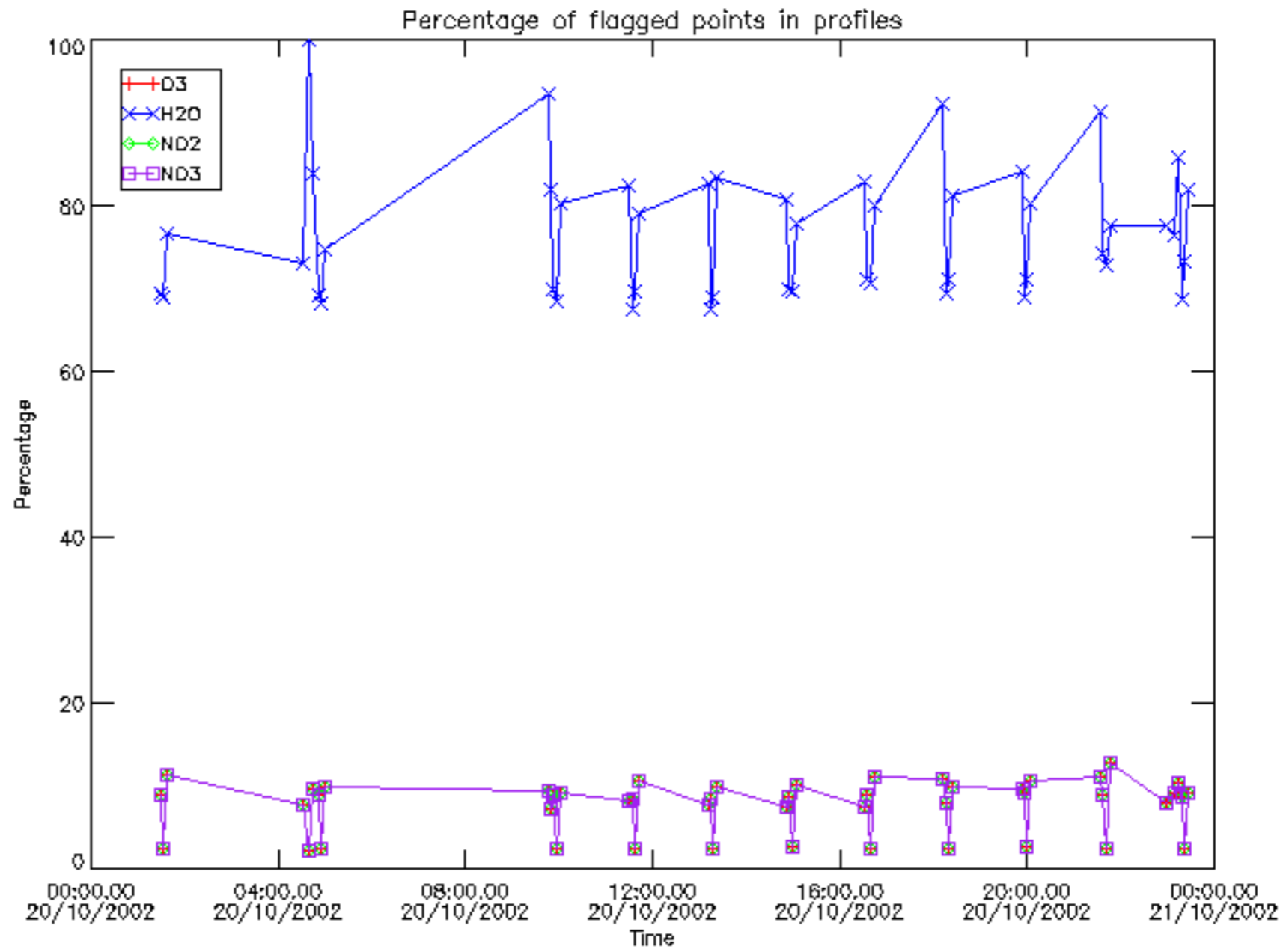




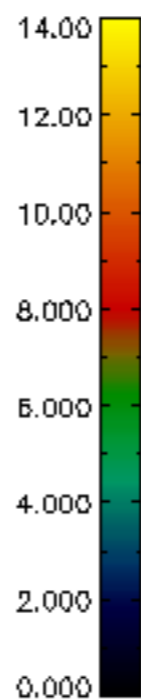
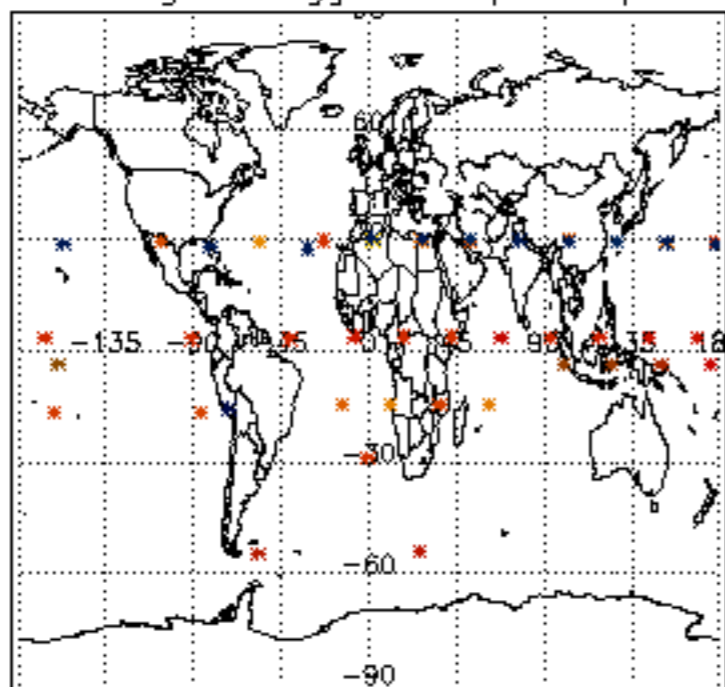




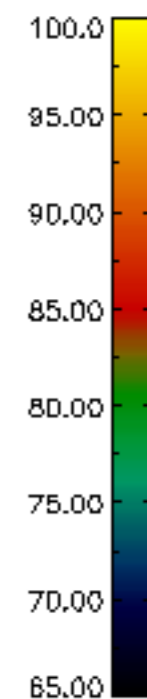
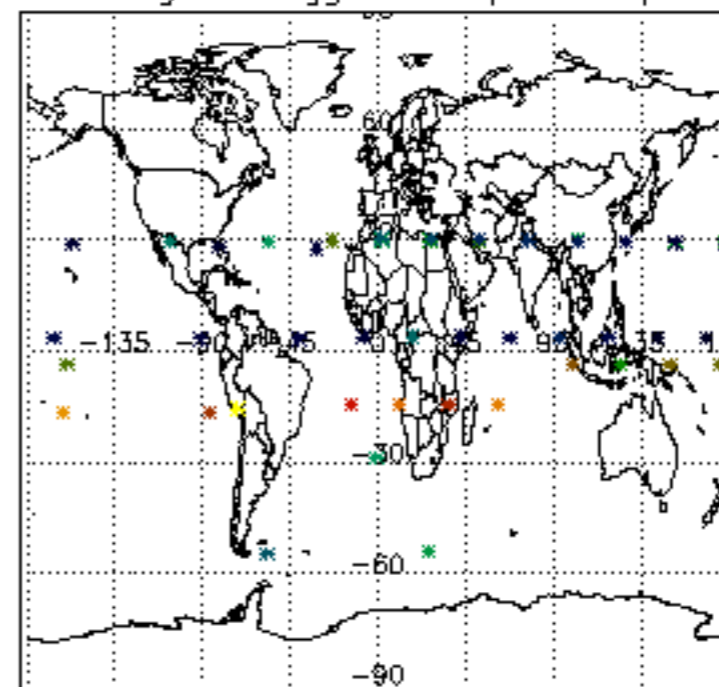




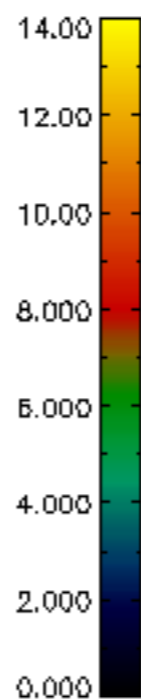
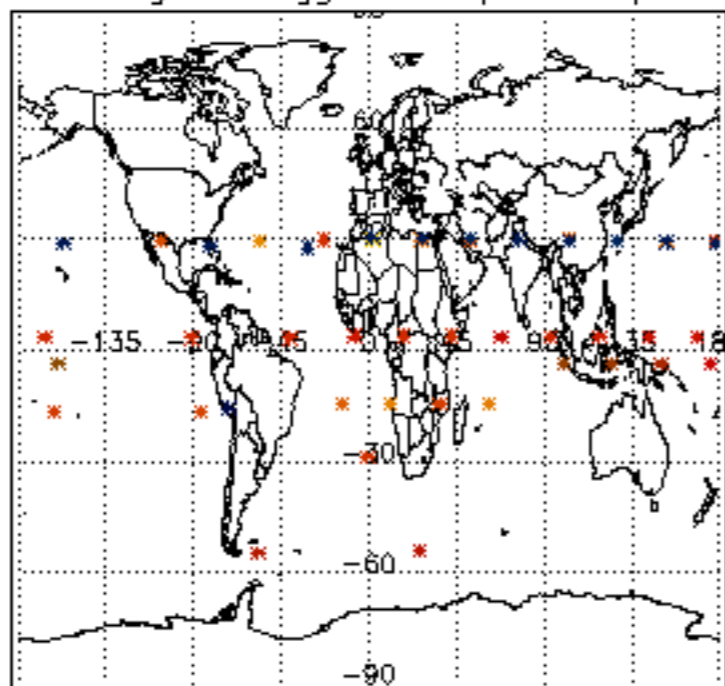
Percentage of flagged data per D3 profile



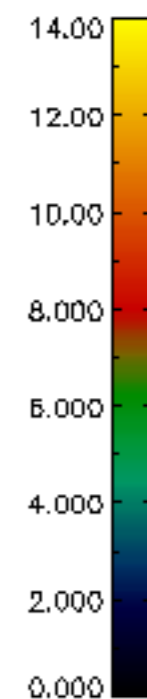
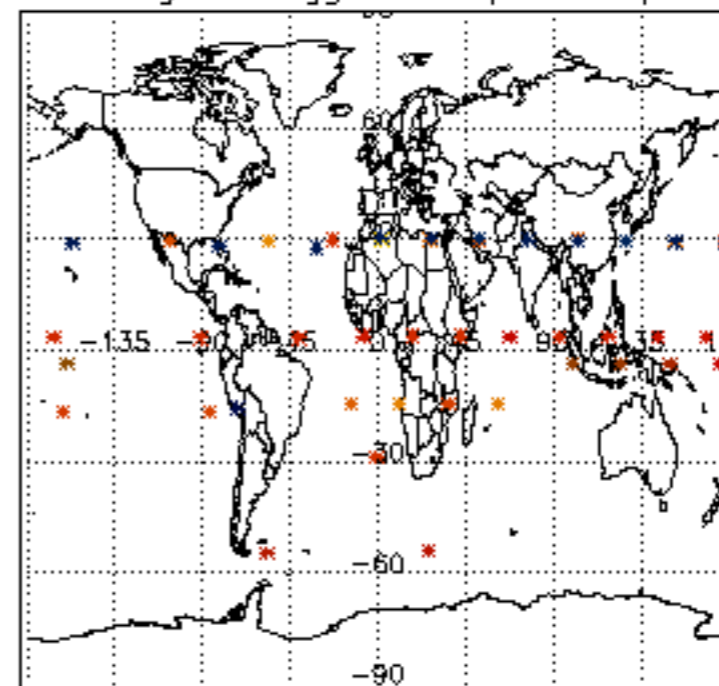
Percentage of flagged data per H2O profile

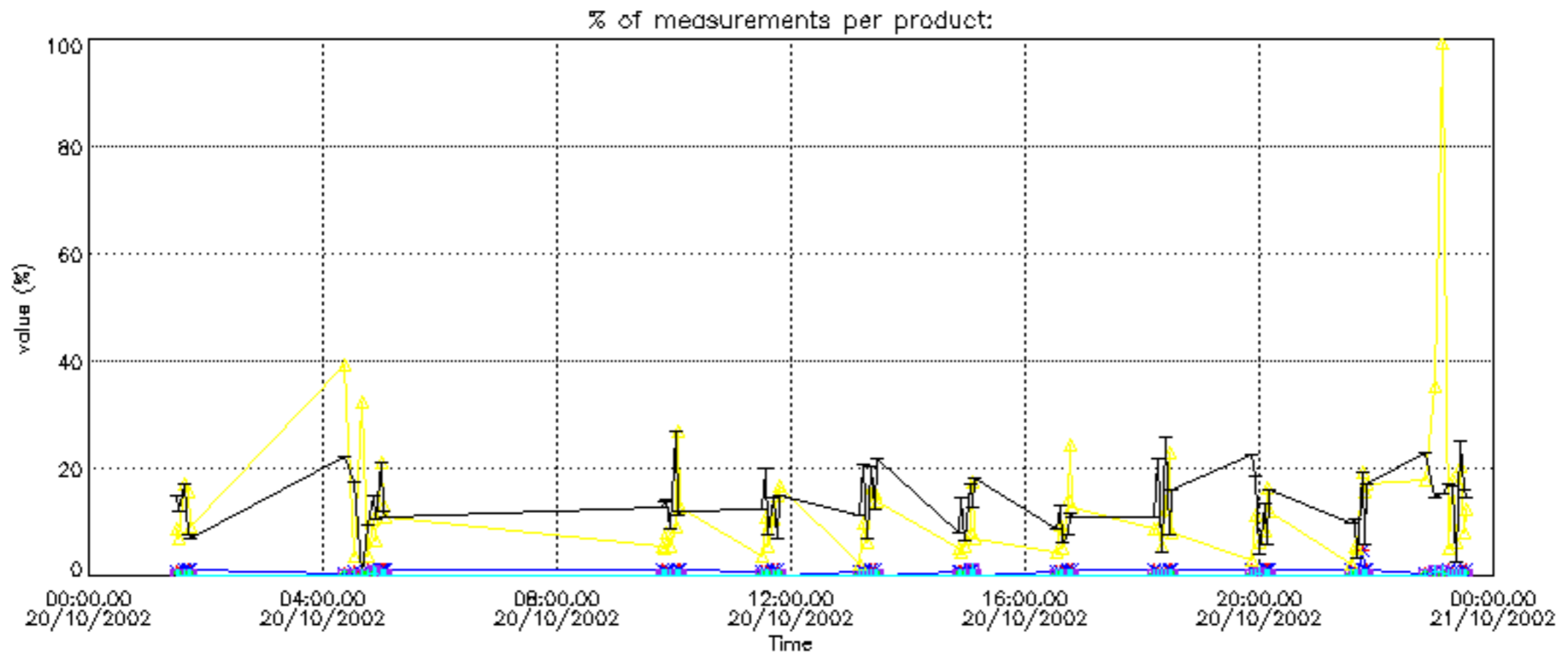
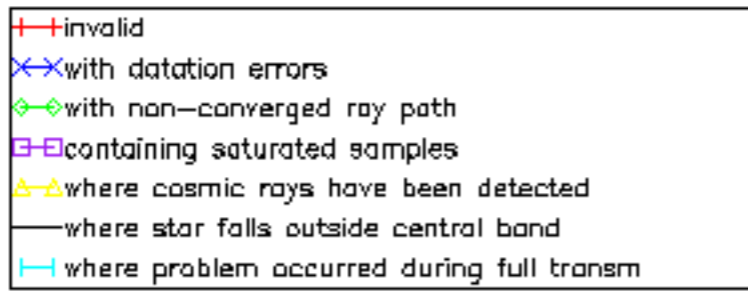


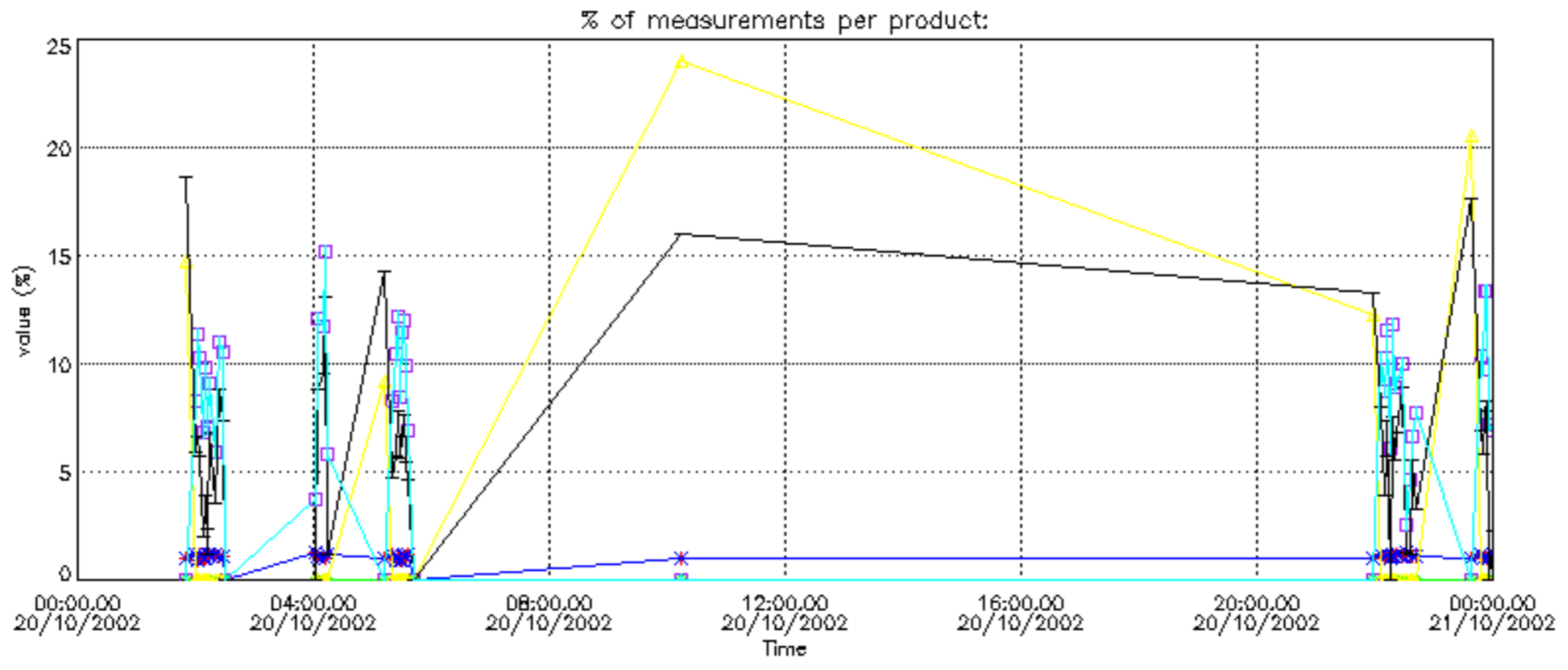
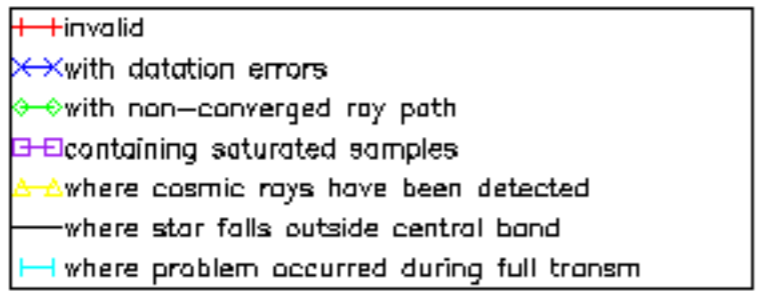
Percentage of flagged data per NO2 profile



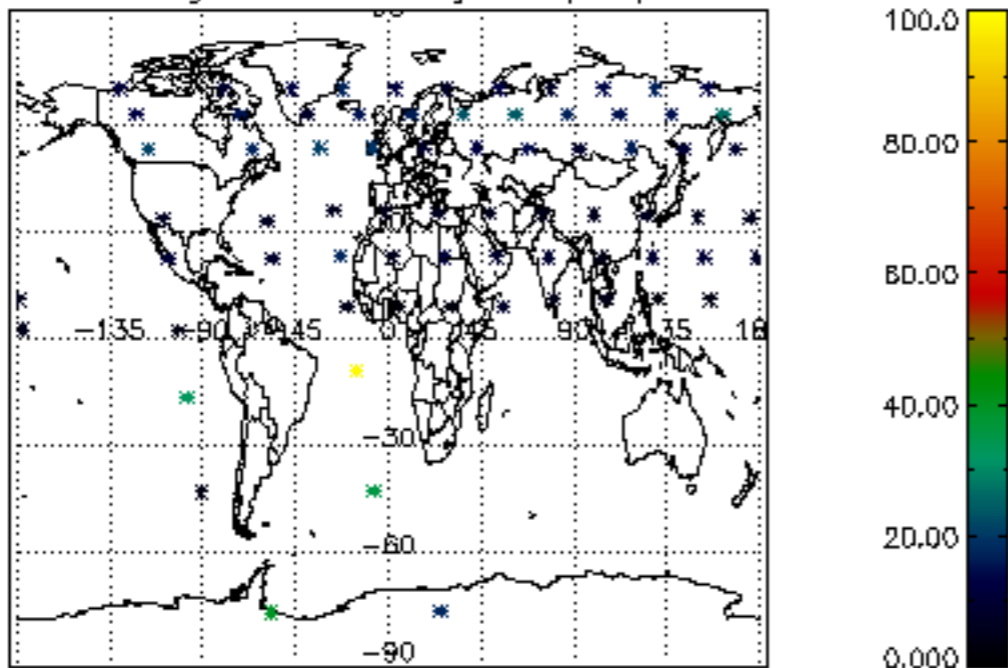
Percentage of flagged data per NO3 profile



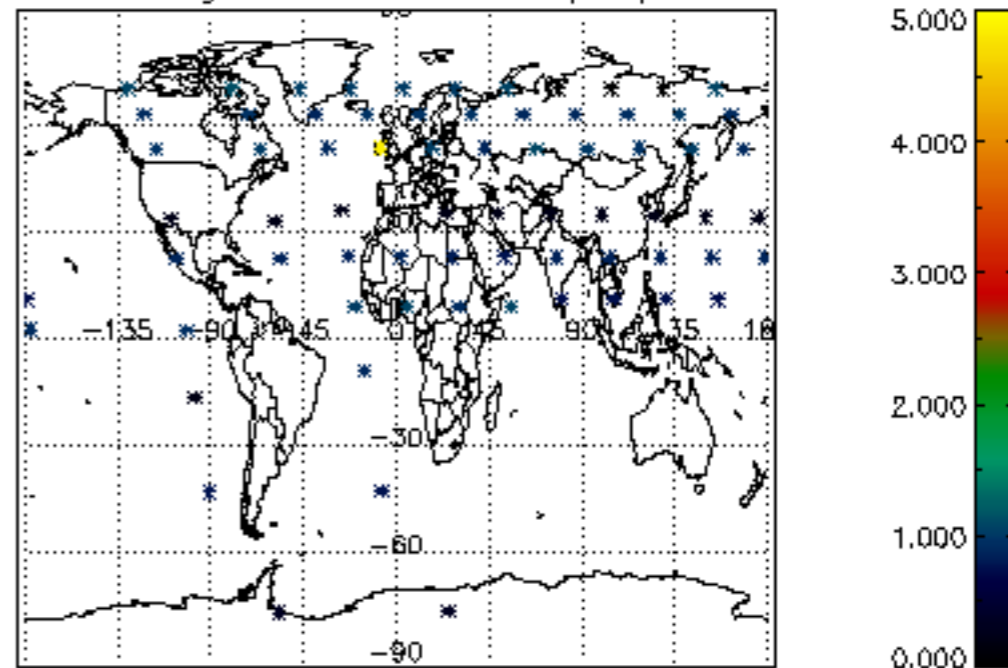




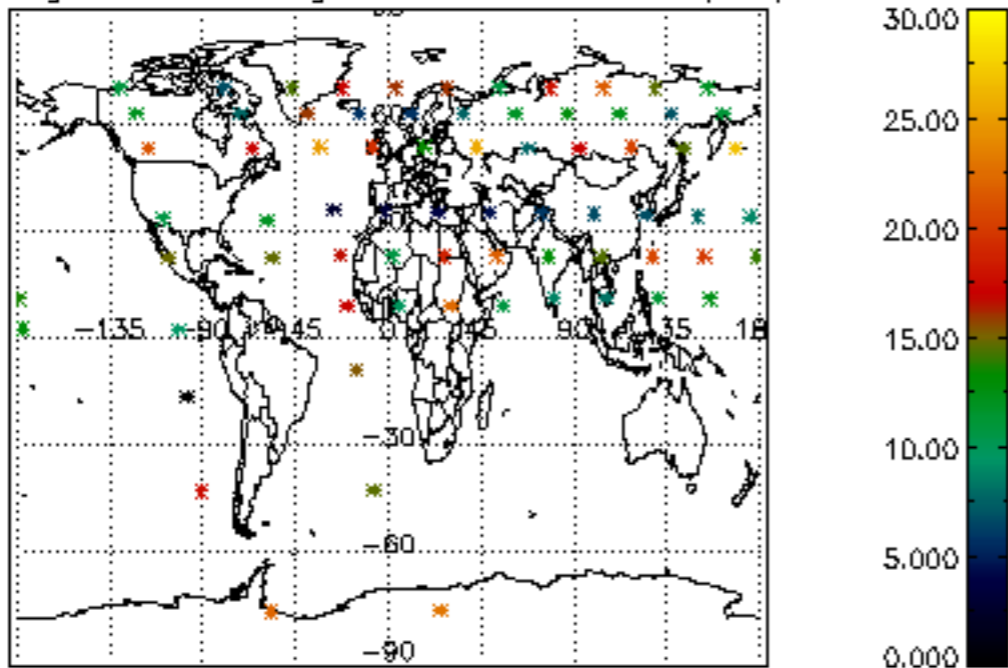
Percentage of cosmic ray hits per profile



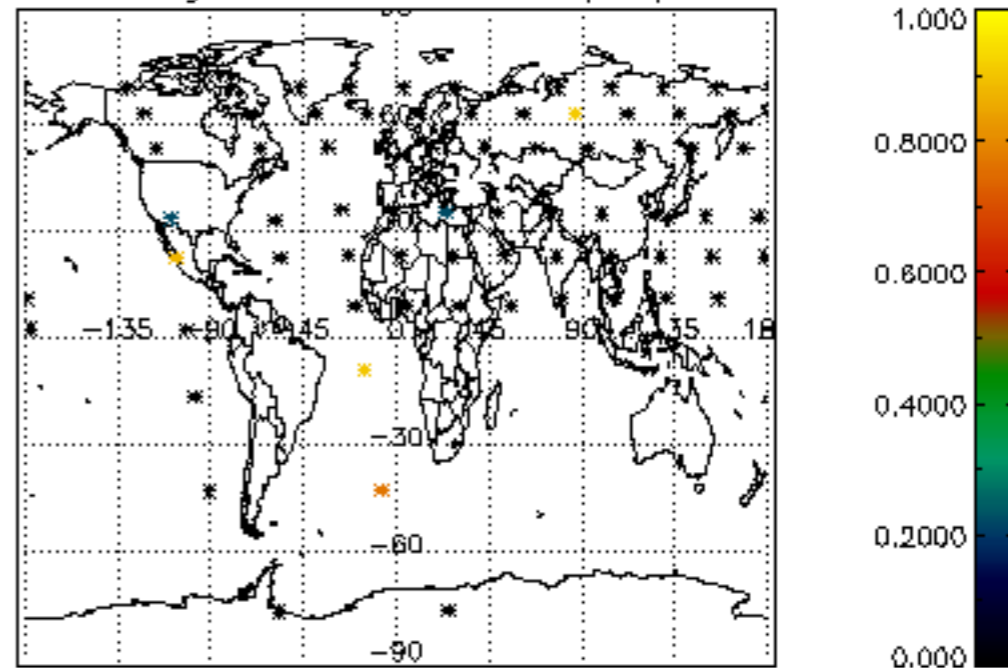
Percentage of datation errors per profile



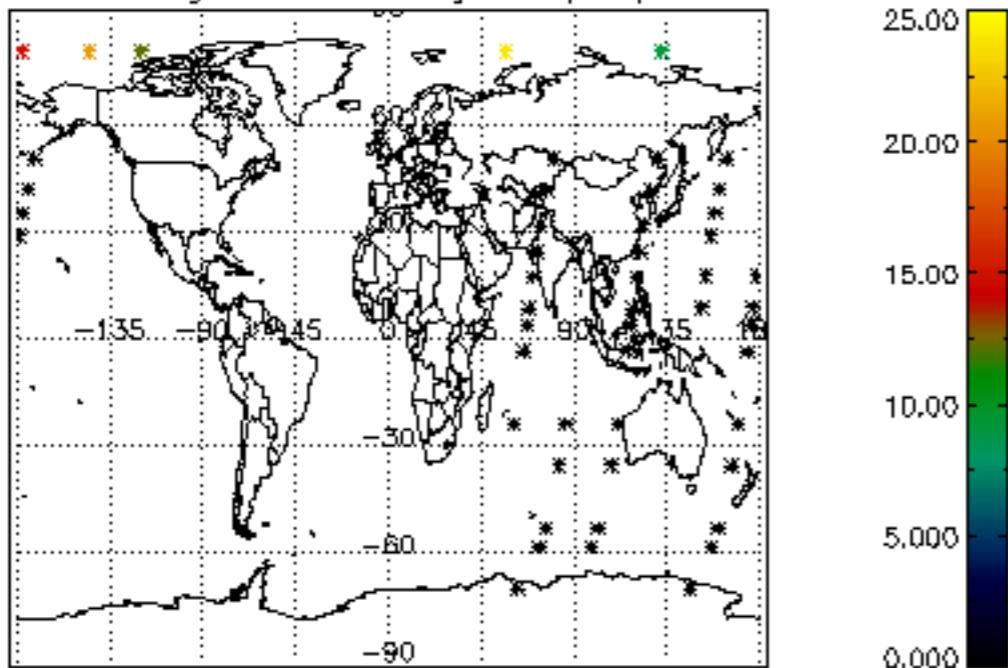
Percentage of star falling outside central band per profile



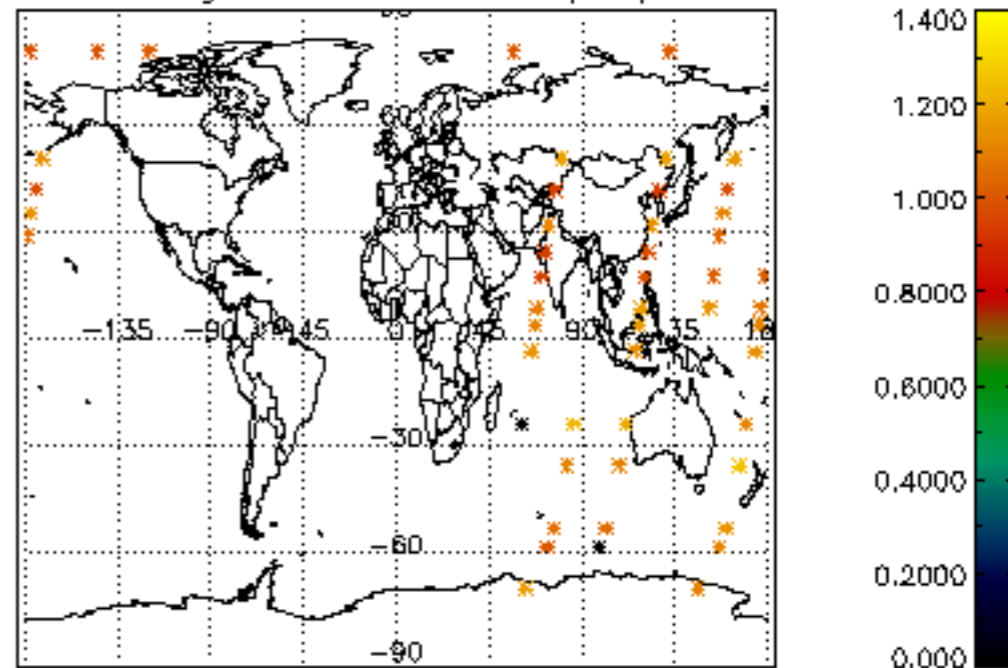
Percentage of saturation errors per profile



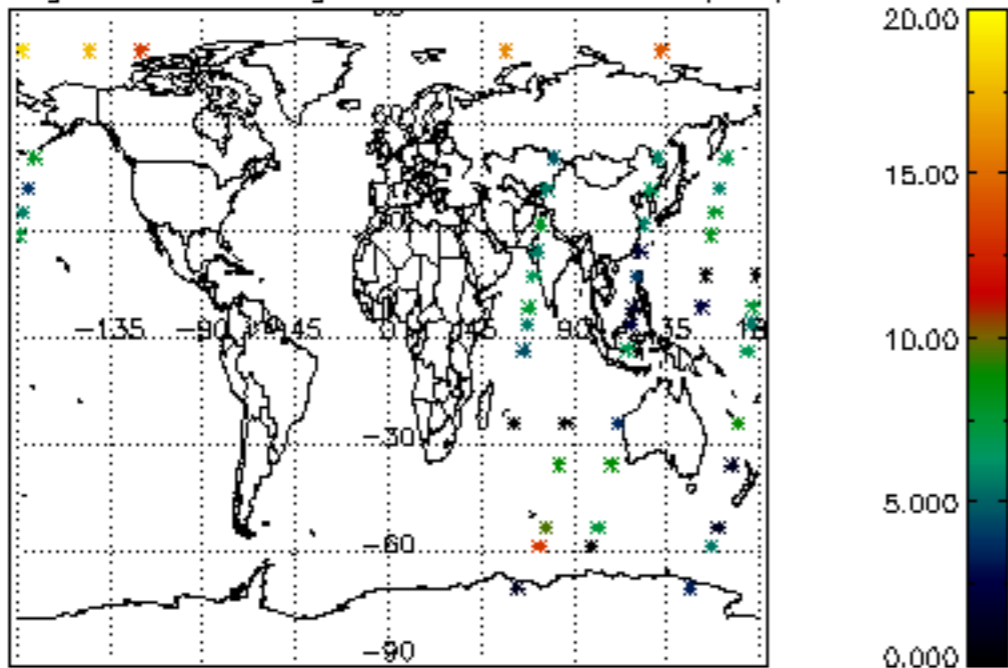
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

