

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	19APR2013 20:06:42
Data source version	GOMOS/6.01
Start time of products	13-09-2003 (13SEP2003 00:00:00)
Stop time of products	14-09-2003 (14SEP2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	128
Nb of prods with errors	4

## 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__2PRFIN20030913_012433_000000412019_00461_08030_8761.N1	13-SEP-2003 01:24:33	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	8030	No
2	GOM_NL__2PRFIN20030913_012648_000000512019_00461_08030_8762.N1	13-SEP-2003 01:26:48	Dark	51.000	9	Alp Eri	0.45300	24000.	102	8030	No
3	GOM_NL__2PRFIN20030913_013007_000000422019_00461_08030_8763.N1	13-SEP-2003 01:30:07	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	8030	No
4	GOM_NL__2PRFIN20030913_013349_000000432019_00461_08030_8764.N1	13-SEP-2003 01:33:49	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	8030	No
5	GOM_NL__2PRFIN20030913_013636_000000402019_00461_08030_8765.N1	13-SEP-2003 01:36:36	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	8030	No
6	GOM_NL__2PRFIN20030913_013759_000000452019_00461_08030_8766.N1	13-SEP-2003 01:37:59	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	8030	No
7	GOM_NL__2PRFIN20030913_014208_000000472019_00461_08030_8767.N1	13-SEP-2003 01:42:08	Dark	46.500	1014	Mars	0.0000	0.0000	93	8030	Yes
8	GOM_NL__2PRFIN20030913_014649_000000402019_00461_08030_8768.N1	13-SEP-2003 01:46:49	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	8030	No
9	GOM_NL__2PRFIN20030913_014948_000000402019_00461_08030_8769.N1	13-SEP-2003 01:49:48	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	8030	No
10	GOM_NL__2PRFIN20030913_015138_000000422019_00461_08030_8770.N1	13-SEP-2003 01:51:38	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	8030	No
11	GOM_NL__2PRFIN20030913_015331_000000532019_00461_08030_8771.N1	13-SEP-2003 01:53:31	Bright	53.000	140	88Gam Peg	2.8340	26000.	106	8030	No
12	GOM_NL__2PRFIN20030913_015552_000000432019_00461_08030_8772.N1	13-SEP-2003 01:55:52	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	8030	No
13	GOM_NL__2PRFIN20030913_015905_000000362019_00461_08030_8773.N1	13-SEP-2003 01:59:05	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	8030	No
14	GOM_NL__2PRFIN20030913_020108_000000362019_00461_08030_8774.N1	13-SEP-2003 02:01:08	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	8030	No
15	GOM_NL__2PRFIN20030913_020439_000000382019_00461_08030_8775.N1	13-SEP-2003 02:04:39	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8030	No
16	GOM_NL__2PRFIN20030913_020631_000000432019_00461_08030_8776.N1	13-SEP-2003 02:06:31	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	8030	No
17	GOM_NL__2PRFIN20030913_020857_000000422019_00461_08030_8777.N1	13-SEP-2003 02:08:57	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	8030	No
18	GOM_NL__2PRFIN20030913_021221_000000392019_00461_08030_8778.N1	13-SEP-2003 02:12:21	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	8030	No
19	GOM_NL__2PRFIN20030913_021414_000000582019_00461_08030_8779.N1	13-SEP-2003 02:14:14	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8030	No
20	GOM_NL__2PRFIN20030913_021616_000000712019_00461_08030_8780.N1	13-SEP-2003 02:16:16	Bright	70.500	35	33Alp Per	1.7950	6250.0	141	8030	No
21	GOM_NL__2PRFIN20030913_021930_000000392019_00461_08030_8781.N1	13-SEP-2003 02:19:30	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	8030	No
22	GOM_NL__2PRFIN20030913_022055_000000522019_00461_08030_8782.N1	13-SEP-2003 02:20:55	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	8030	No
23	GOM_NL__2PRFIN20030913_022328_000000642019_00461_08030_8783.N1	13-SEP-2003 02:23:28	Bright	64.000	6	13Alp Aur	0.080000	3400.0	128	8030	No
24	GOM_NL__2PRFIN20030913_022807_000000572019_00461_08030_8784.N1	13-SEP-2003 02:28:07	Bright	57.000	107	37The Aur	2.6490	11000.	114	8030	No
25	GOM_NL__2PRFIN20030913_023053_000000472019_00461_08030_8785.N1	13-SEP-2003 02:30:53	Bright	46.500	17	78Bet Gem	1.1610	4500.0	93	8030	No
26	GOM_NL__2PRFIN20030913_023305_000001062019_00461_08030_8786.N1	13-SEP-2003 02:33:05	Twilight	105.50	28	12Bet Tau	1.6500	15200.	211	8030	No
27	GOM_NL__2PRFIN20030913_023807_000000542019_00461_08030_8787.N1	13-SEP-2003 02:38:07	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	8030	No
28	GOM_NL__2PRFIN20030913_024251_000001022019_00461_08030_8788.N1	13-SEP-2003 02:42:51	Dark	102.00	14	58Alp Ori	0.87000	3000.0	204	8030	No
29	GOM_NL__2PRFIN20030913_024651_000000672019_00461_08030_8789.N1	13-SEP-2003 02:46:51	Dark	67.000	1	9Alp CMa	-1.4400	11000.	134	8030	No
30	GOM_NL__2PRFIN20030913_024914_000000482019_00461_08030_8790.N1	13-SEP-2003 02:49:14	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	8030	No
31	GOM_NL__2PRFIN20030913_025133_000000442019_00461_08030_8791.N1	13-SEP-2003 02:51:33	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	8030	No
32	GOM_NL__2PRFIN20030913_025432_000000512019_00461_08030_8792.N1	13-SEP-2003 02:54:32	Dark	50.500	41	Eps Car	1.8600	4100.0	101	8030	No
33	GOM_NL__2PRFIN20030913_030509_000000412019_00462_08031_9491.N1	13-SEP-2003 03:05:09	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	8031	No
34	GOM_NL__2PRFIN20030913_030724_000000452019_00462_08031_9492.N1	13-SEP-2003 03:07:24	Dark	44.500	9	Alp Eri	0.45300	24000.	89	8031	No
35	GOM_NL__2PRFIN20030913_031043_000000422019_00462_08031_9493.N1	13-SEP-2003 03:10:43	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	8031	No
36	GOM_NL__2PRFIN20030913_031425_000000432019_00462_08031_9494.N1	13-SEP-2003 03:14:25	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	8031	No
37	GOM_NL__2PRFIN20030913_031713_000000412019_00462_08031_9495.N1	13-SEP-2003 03:17:13	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	8031	No
38	GOM_NL__2PRFIN20030913_031835_000000452019_00462_08031_9496.N1	13-SEP-2003 03:18:35	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	8031	No
39	GOM_NL__2PRFIN20030913_032244_000000492019_00462_08031_9497.N1	13-SEP-2003 03:22:44	Dark	49.000	1014	Mars	0.0000	0.0000	98	8031	Yes
40	GOM_NL__2PRFIN20030913_032723_000000422019_00462_08031_9498.N1	13-SEP-2003 03:27:23	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	8031	No
41	GOM_NL__2PRFIN20030913_033023_000000422019_00462_08031_9499.N1	13-SEP-2003 03:30:23	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	8031	No
42	GOM_NL__2PRFIN20030913_033213_000000442019_00462_08031_9500.N1	13-SEP-2003 03:32:13	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	8031	No

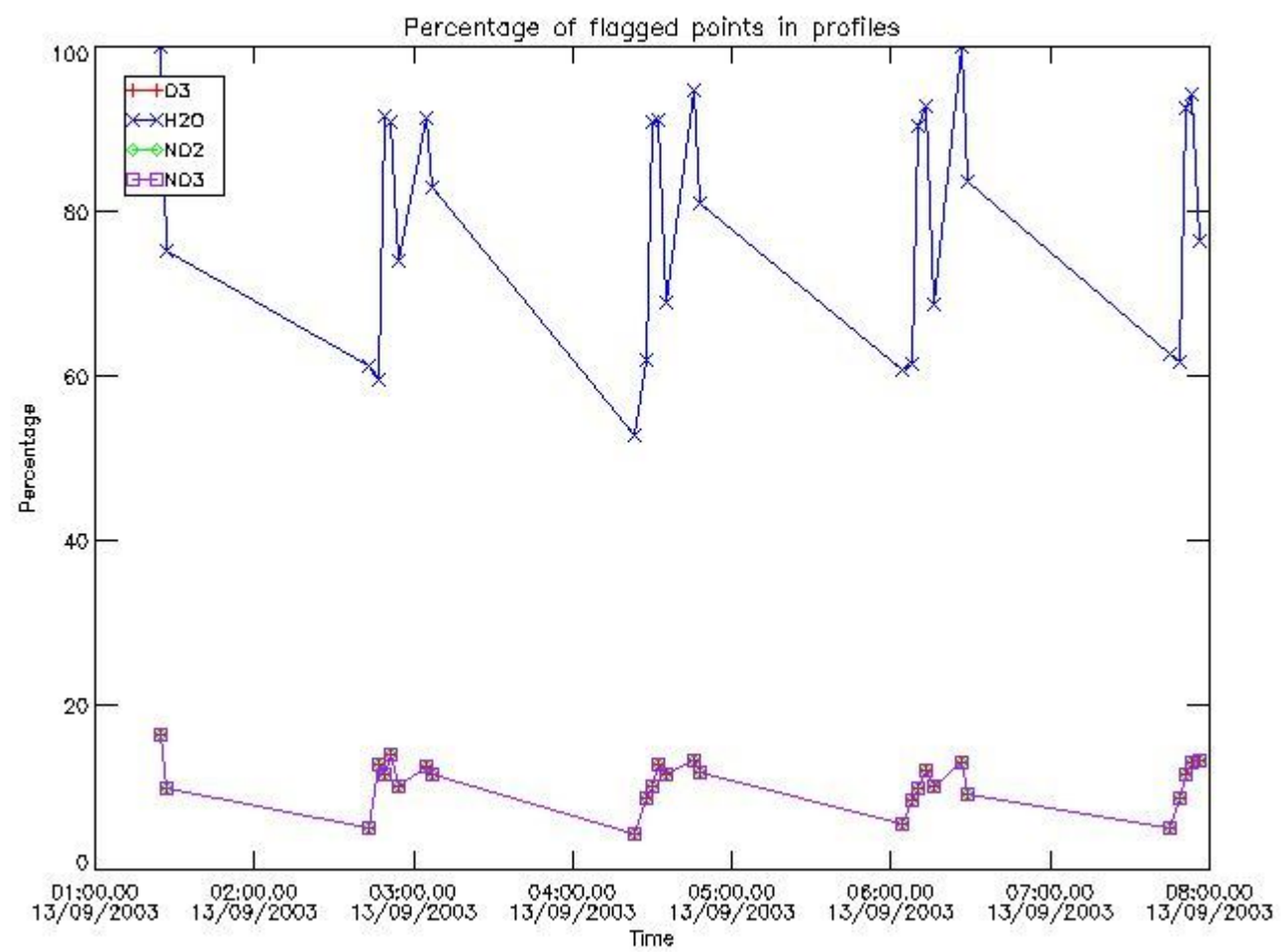
43	GOM_NL__2PRFIN20030913_033406_000000542019_00462_08031_9501.N1	13-SEP-2003 03:34:06	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	8031	No
44	GOM_NL__2PRFIN20030913_033628_000000402019_00462_08031_9502.N1	13-SEP-2003 03:36:28	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	8031	No
45	GOM_NL__2PRFIN20030913_033941_000000402019_00462_08031_9503.N1	13-SEP-2003 03:39:41	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	8031	No
46	GOM_NL__2PRFIN20030913_034143_000000392019_00462_08031_9504.N1	13-SEP-2003 03:41:43	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	8031	No
47	GOM_NL__2PRFIN20030913_034514_000000392019_00462_08031_9505.N1	13-SEP-2003 03:45:14	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	8031	No
48	GOM_NL__2PRFIN20030913_034706_000000432019_00462_08031_9506.N1	13-SEP-2003 03:47:06	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	8031	No
49	GOM_NL__2PRFIN20030913_034932_000000462019_00462_08031_9507.N1	13-SEP-2003 03:49:32	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	8031	No
50	GOM_NL__2PRFIN20030913_035256_000000352019_00462_08031_9508.N1	13-SEP-2003 03:52:56	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	8031	No
51	GOM_NL__2PRFIN20030913_035449_000000592019_00462_08031_9509.N1	13-SEP-2003 03:54:49	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	8031	No
52	GOM_NL__2PRFIN20030913_035651_000000682019_00462_08031_9510.N1	13-SEP-2003 03:56:51	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	8031	No
53	GOM_NL__2PRFIN20030913_040007_000000372019_00462_08031_9511.N1	13-SEP-2003 04:00:07	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	8031	No
54	GOM_NL__2PRFIN20030913_040132_000000382019_00462_08031_9512.N1	13-SEP-2003 04:01:32	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	8031	No
55	GOM_NL__2PRFIN20030913_040403_000000642019_00462_08031_9513.N1	13-SEP-2003 04:04:03	Bright	63.500	6	13Alp Aur	0.080000	3400.0	127	8031	No
56	GOM_NL__2PRFIN20030913_040843_000000592019_00462_08031_9514.N1	13-SEP-2003 04:08:43	Bright	59.000	107	37The Aur	2.6490	11000.	118	8031	No
57	GOM_NL__2PRFIN20030913_041128_000000472019_00462_08031_9515.N1	13-SEP-2003 04:11:28	Bright	47.000	17	78Bet Gem	1.1610	4500.0	94	8031	No
58	GOM_NL__2PRFIN20030913_041341_000000922019_00462_08031_9516.N1	13-SEP-2003 04:13:41	Twilight	91.500	28	12Bet Tau	1.6500	15200.	183	8031	No
59	GOM_NL__2PRFIN20030913_041844_000000562019_00462_08031_9517.N1	13-SEP-2003 04:18:44	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	8031	No
60	GOM_NL__2PRFIN20030913_042328_000001172019_00462_08031_9518.N1	13-SEP-2003 04:23:28	Dark	117.00	14	58Alp Ori	0.87000	3000.0	234	8031	No
61	GOM_NL__2PRFIN20030913_042728_000000602019_00462_08031_9519.N1	13-SEP-2003 04:27:28	Dark	59.500	1	9Alp CMa	-1.4400	11000.	119	8031	No
62	GOM_NL__2PRFIN20030913_042948_000000502019_00462_08031_9520.N1	13-SEP-2003 04:29:48	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	8031	No
63	GOM_NL__2PRFIN20030913_043209_000000402019_00462_08031_9521.N1	13-SEP-2003 04:32:09	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	8031	No
64	GOM_NL__2PRFIN20030913_043509_000000442019_00462_08031_9522.N1	13-SEP-2003 04:35:09	Dark	44.000	41	Eps Car	1.8600	4100.0	88	8031	No
65	GOM_NL__2PRFIN20030913_044545_000000392019_00463_08032_9520.N1	13-SEP-2003 04:45:45	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	8032	No
66	GOM_NL__2PRFIN20030913_044801_000000482019_00463_08032_9521.N1	13-SEP-2003 04:48:01	Dark	47.500	9	Alp Eri	0.45300	24000.	95	8032	No
67	GOM_NL__2PRFIN20030913_045119_000000412019_00463_08032_9522.N1	13-SEP-2003 04:51:19	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	8032	No
68	GOM_NL__2PRFIN20030913_045501_000000422019_00463_08032_9523.N1	13-SEP-2003 04:55:01	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	8032	No
69	GOM_NL__2PRFIN20030913_045749_000000392019_00463_08032_9524.N1	13-SEP-2003 04:57:49	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	8032	No
70	GOM_NL__2PRFIN20030913_045912_000000472019_00463_08032_9525.N1	13-SEP-2003 04:59:12	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	8032	No
71	GOM_NL__2PRFIN20030913_050320_000000522019_00463_08032_9526.N1	13-SEP-2003 05:03:20	Dark	52.000	1014	Mars	0.0000	0.0000	104	8032	Yes
72	GOM_NL__2PRFIN20030913_050759_000000422019_00463_08032_9527.N1	13-SEP-2003 05:07:59	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	8032	No
73	GOM_NL__2PRFIN20030913_051100_000000412019_00463_08032_9528.N1	13-SEP-2003 05:11:00	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	8032	No
74	GOM_NL__2PRFIN20030913_051250_000000422019_00463_08032_9529.N1	13-SEP-2003 05:12:50	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	8032	No
75	GOM_NL__2PRFIN20030913_051441_000000552019_00463_08032_9530.N1	13-SEP-2003 05:14:41	Bright	54.500	140	88Gam Peg	2.8340	26000.	109	8032	No
76	GOM_NL__2PRFIN20030913_051703_000000432019_00463_08032_9531.N1	13-SEP-2003 05:17:03	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	8032	No
77	GOM_NL__2PRFIN20030913_052017_000000372019_00463_08032_9532.N1	13-SEP-2003 05:20:17	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	8032	No
78	GOM_NL__2PRFIN20030913_052221_000000392019_00463_08032_9533.N1	13-SEP-2003 05:22:21	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	8032	No
79	GOM_NL__2PRFIN20030913_052551_000000382019_00463_08032_9534.N1	13-SEP-2003 05:25:51	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	8032	No
80	GOM_NL__2PRFIN20030913_052742_000000482019_00463_08032_9535.N1	13-SEP-2003 05:27:42	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	8032	No
81	GOM_NL__2PRFIN20030913_053007_000000472019_00463_08032_9536.N1	13-SEP-2003 05:30:07	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	8032	No
82	GOM_NL__2PRFIN20030913_053333_000000392019_00463_08032_9537.N1	13-SEP-2003 05:33:33	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	8032	No
83	GOM_NL__2PRFIN20030913_053524_000000582019_00463_08032_9538.N1	13-SEP-2003 05:35:24	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8032	No
84	GOM_NL__2PRFIN20030913_053726_000000652019_00463_08032_9539.N1	13-SEP-2003 05:37:26	Bright	65.000	35	33Alp Per	1.7950	6250.0	130	8032	No
85	GOM_NL__2PRFIN20030913_054043_000000382019_00463_08032_9540.N1	13-SEP-2003 05:40:43	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	8032	No
86	GOM_NL__2PRFIN20030913_054209_000000522019_00463_08032_9541.N1	13-SEP-2003 05:42:09	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	8032	No
87	GOM_NL__2PRFIN20030913_054439_000000662019_00463_08032_9542.N1	13-SEP-2003 05:44:39	Bright	65.500	6	13Alp Aur	0.080000	3400.0	131	8032	No
88	GOM_NL__2PRFIN20030913_054919_000000582019_00463_08032_9543.N1	13-SEP-2003 05:49:19	Bright	57.500	107	37The Aur	2.6490	11000.	115	8032	No
89	GOM_NL__2PRFIN20030913_055205_000000592019_00463_08032_9544.N1	13-SEP-2003 05:52:05	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	8032	No
90	GOM_NL__2PRFIN20030913_055418_000001012019_00463_08032_9545.N1	13-SEP-2003 05:54:18	Twilight	101.00	28	12Bet Tau	1.6500	15200.	202	8032	No
91	GOM_NL__2PRFIN20030913_055921_000000502019_00463_08032_9546.N1	13-SEP-2003 05:59:21	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	8032	No
92	GOM_NL__2PRFIN20030913_060407_000001002019_00463_08032_9547.N1	13-SEP-2003 06:04:07	Dark	99.500	14	58Alp Ori	0.87000	3000.0	199	8032	No
93	GOM_NL__2PRFIN20030913_060806_000000602019_00463_08032_9548.N1	13-SEP-2003 06:08:06	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	8032	No
94	GOM_NL__2PRFIN20030913_061027_000000522019_00463_08032_9549.N1	13-SEP-2003 06:10:27	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	8032	No
95	GOM_NL__2PRFIN20030913_061246_000000432019_00463_08032_9550.N1	13-SEP-2003 06:12:46	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	8032	No
96	GOM_NL__2PRFIN20030913_061545_000000502019_00463_08032_9551.N1	13-SEP-2003 06:15:45	Dark	50.000	41	Eps Car	1.8600	4100.0	100	8032	No
97	GOM_NL__2PRFIN20030913_062621_000000392019_00464_08033_9509.N1	13-SEP-2003 06:26:21	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	8033	No
98	GOM_NL__2PRFIN20030913_062837_000000562019_00464_08033_9510.N1	13-SEP-2003 06:28:37	Dark	55.500	9	Alp Eri	0.45300	24000.	111	8033	No
99	GOM_NL__2PRFIN20030913_063155_000000492019_00464_08033_9511.N1	13-SEP-2003 06:31:55	Straylight	48.500	148	Alp Tuc	2.8780	4100.0	97	8033	No
100	GOM_NL__2PRFIN20030913_063538_000000492019_00464_08033_9512.N1	13-SEP-2003 06:35:38	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	8033	No
101	GOM_NL__2PRFIN20030913_063825_000000412019_00464_08033_9513.N1	13-SEP-2003 06:38:25	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	8033	No

102	GOM_NL__2PRFIN20030913_063948_000000472019_00464_08033_9514.N1	13-SEP-2003 06:39:48	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	8033	No
103	GOM_NL__2PRFIN20030913_064356_000000502019_00464_08033_9515.N1	13-SEP-2003 06:43:56	Dark	49.500	1014	Mars	0.0000	0.0000	99	8033	Yes
104	GOM_NL__2PRFIN20030913_064837_000000412019_00464_08033_9516.N1	13-SEP-2003 06:48:37	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	8033	No
105	GOM_NL__2PRFIN20030913_065136_000000412019_00464_08033_9517.N1	13-SEP-2003 06:51:36	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	8033	No
106	GOM_NL__2PRFIN20030913_065325_000000422019_00464_08033_9518.N1	13-SEP-2003 06:53:25	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	8033	No
107	GOM_NL__2PRFIN20030913_065517_000000542019_00464_08033_9519.N1	13-SEP-2003 06:55:17	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	8033	No
108	GOM_NL__2PRFIN20030913_065739_000000422019_00464_08033_9520.N1	13-SEP-2003 06:57:39	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	8033	No
109	GOM_NL__2PRFIN20030913_070054_000000372019_00464_08033_9521.N1	13-SEP-2003 07:00:54	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	8033	No
110	GOM_NL__2PRFIN20030913_070257_000000392019_00464_08033_9522.N1	13-SEP-2003 07:02:57	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	8033	No
111	GOM_NL__2PRFIN20030913_070627_000000382019_00464_08033_9523.N1	13-SEP-2003 07:06:27	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8033	No
112	GOM_NL__2PRFIN20030913_070817_000000462019_00464_08033_9524.N1	13-SEP-2003 07:08:17	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	8033	No
113	GOM_NL__2PRFIN20030913_071043_000000452019_00464_08033_9525.N1	13-SEP-2003 07:10:43	Bright	45.000	110	37Del Cas	2.6780	8900.0	90	8033	No
114	GOM_NL__2PRFIN20030913_071409_000000392019_00464_08033_9526.N1	13-SEP-2003 07:14:09	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	8033	No
115	GOM_NL__2PRFIN20030913_071559_000000582019_00464_08033_9527.N1	13-SEP-2003 07:15:59	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8033	No
116	GOM_NL__2PRFIN20030913_071801_000000662019_00464_08033_9528.N1	13-SEP-2003 07:18:01	Bright	66.000	35	33Alp Per	1.7950	6250.0	132	8033	No
117	GOM_NL__2PRFIN20030913_072120_000000372019_00464_08033_9529.N1	13-SEP-2003 07:21:20	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	8033	No
118	GOM_NL__2PRFIN20030913_072245_000000352019_00464_08033_9530.N1	13-SEP-2003 07:22:45	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	8033	No
119	GOM_NL__2PRFIN20030913_072514_000000622019_00464_08033_9531.N1	13-SEP-2003 07:25:14	Bright	62.000	6	13Alp Aur	0.080000	3400.0	124	8033	No
120	GOM_NL__2PRFIN20030913_072955_000000572019_00464_08033_9532.N1	13-SEP-2003 07:29:55	Bright	56.500	107	37The Aur	2.6490	11000.	113	8033	No
121	GOM_NL__2PRFIN20030913_073242_000000462019_00464_08033_9533.N1	13-SEP-2003 07:32:42	Bright	46.000	17	78Bet Gem	1.1610	4500.0	92	8033	No
122	GOM_NL__2PRFIN20030913_073455_000001112019_00464_08033_9534.N1	13-SEP-2003 07:34:55	Twilight	110.50	28	12Bet Tau	1.6500	15200.	221	8033	No
123	GOM_NL__2PRFIN20030913_073958_000000432019_00464_08033_9535.N1	13-SEP-2003 07:39:58	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	8033	No
124	GOM_NL__2PRFIN20030913_074444_000001012019_00464_08033_9536.N1	13-SEP-2003 07:44:44	Dark	100.50	14	58Alp Ori	0.87000	3000.0	201	8033	No
125	GOM_NL__2PRFIN20030913_074843_000000592019_00464_08033_9537.N1	13-SEP-2003 07:48:43	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	8033	No
126	GOM_NL__2PRFIN20030913_075104_000000482019_00464_08033_9538.N1	13-SEP-2003 07:51:04	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	8033	No
127	GOM_NL__2PRFIN20030913_075323_000000432019_00464_08033_9539.N1	13-SEP-2003 07:53:23	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	8033	No
128	GOM_NL__2PRFIN20030913_075621_000000392019_00464_08033_9540.N1	13-SEP-2003 07:56:21	Dark	38.500	41	Eps Car	1.8600	4100.0	77	8033	No

### 3. Quality information per product

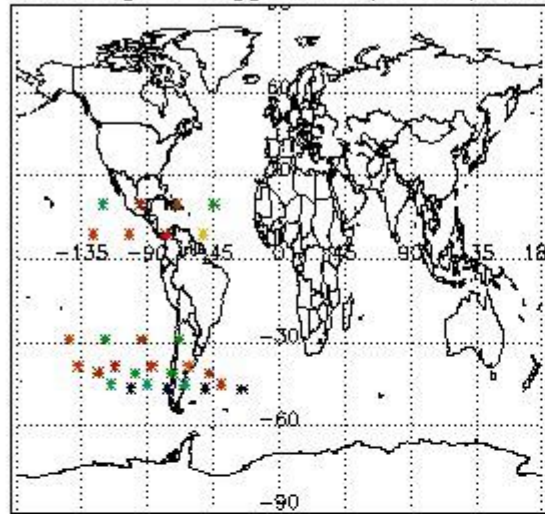
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

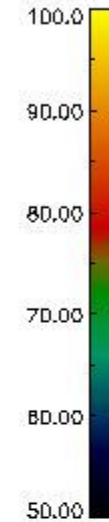
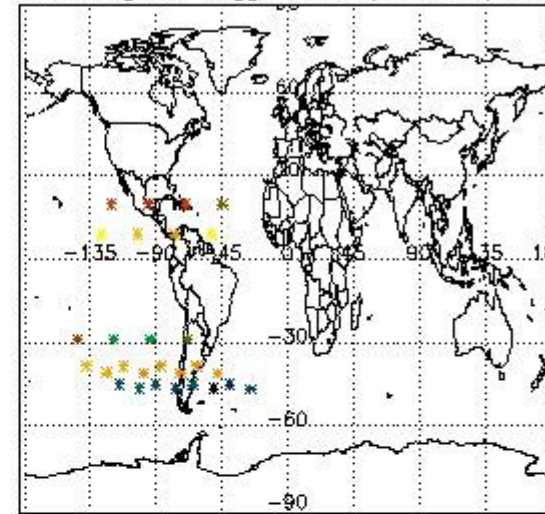


*3.2 Plot quality information per product (world map)*

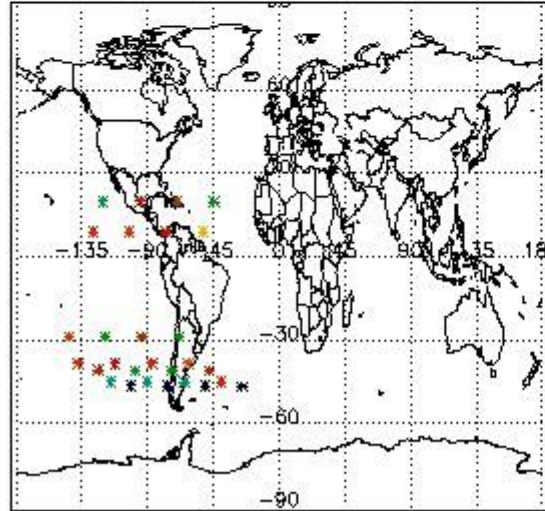
Percentage of flagged data per O3 profile



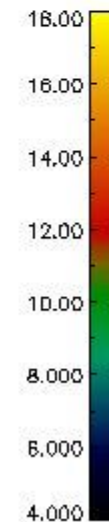
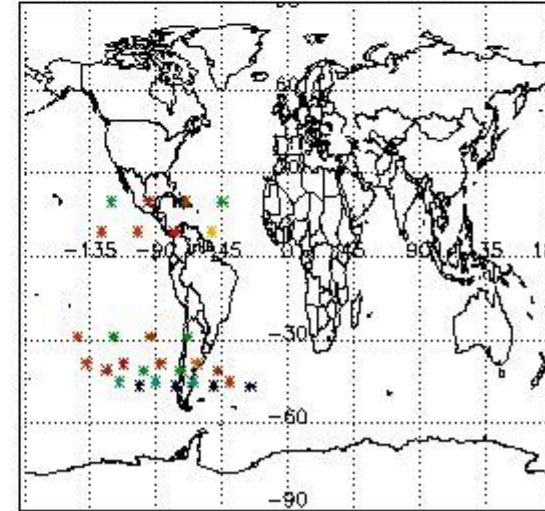
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

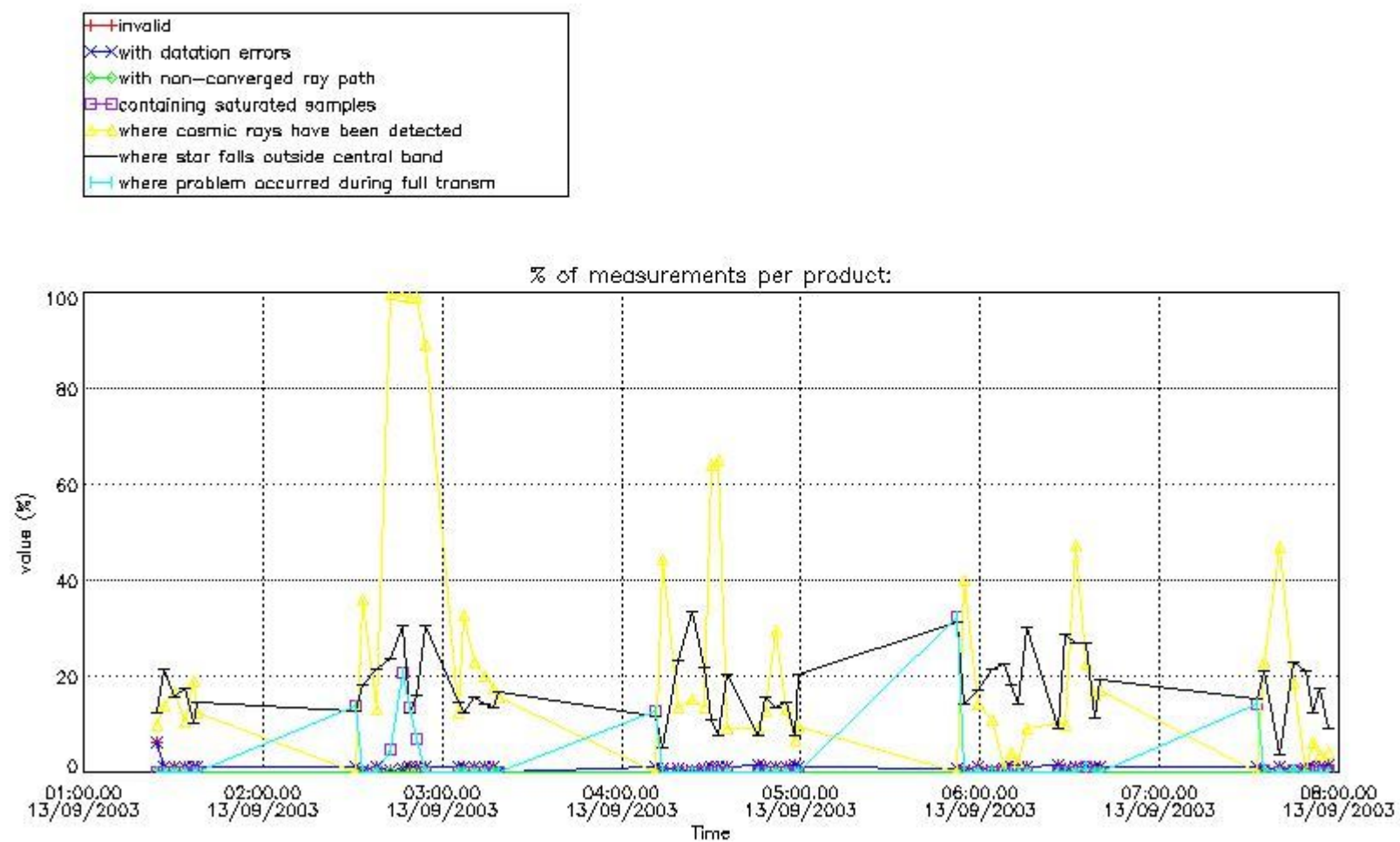


#### 4. Level 1 quality information per product

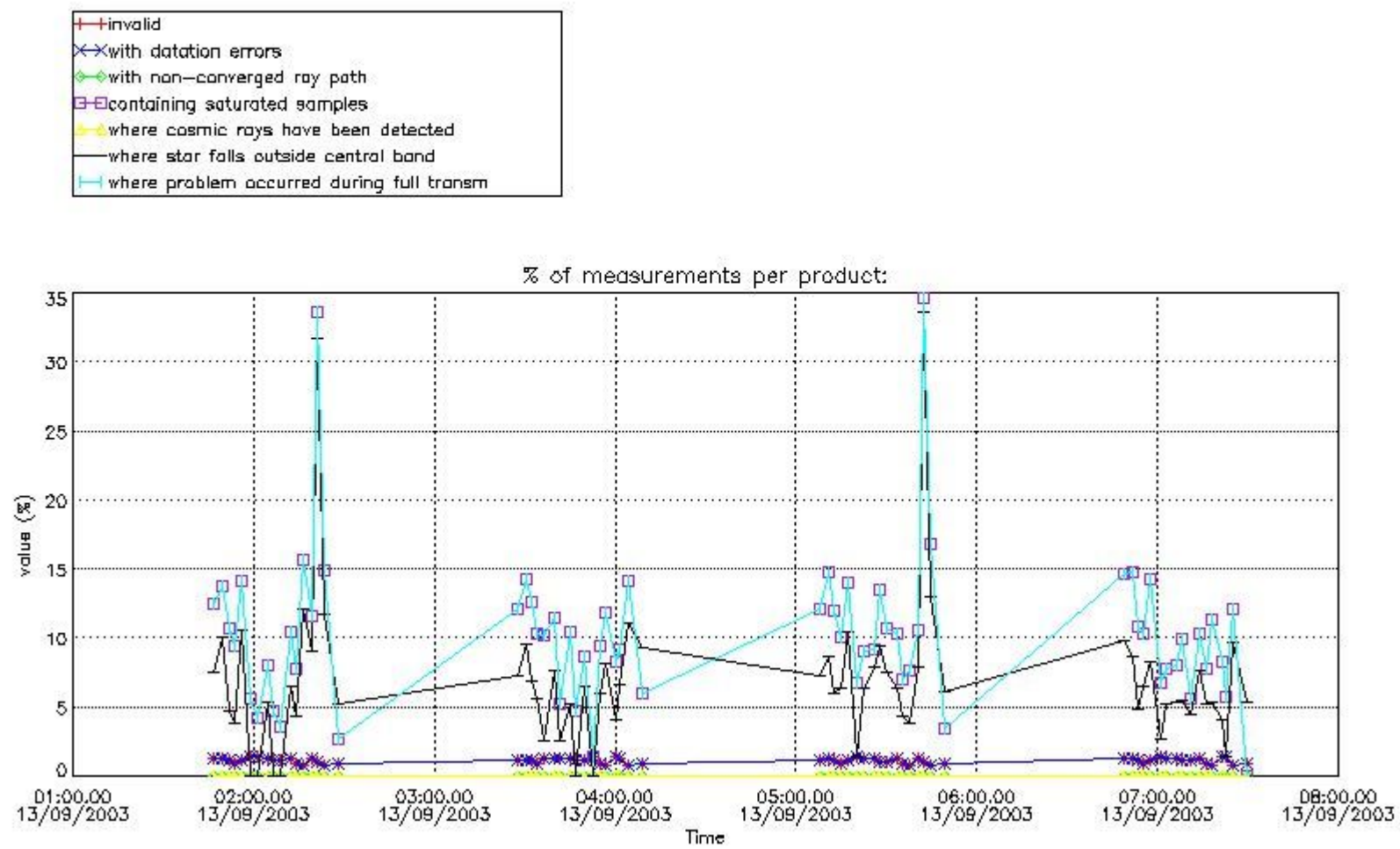
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

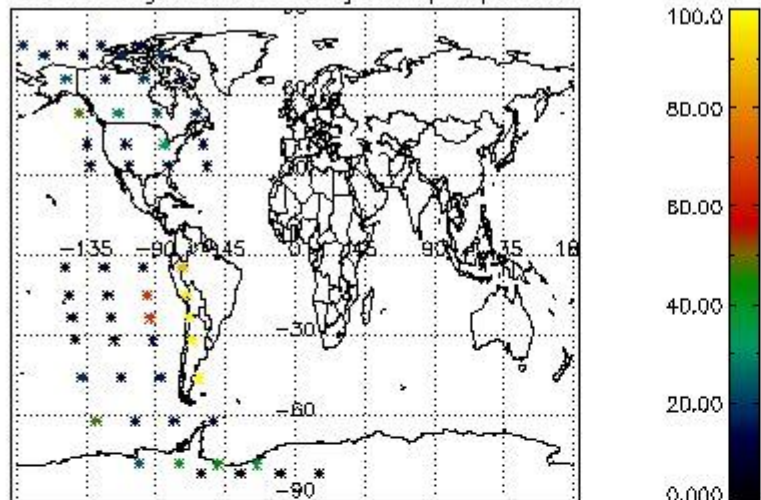


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

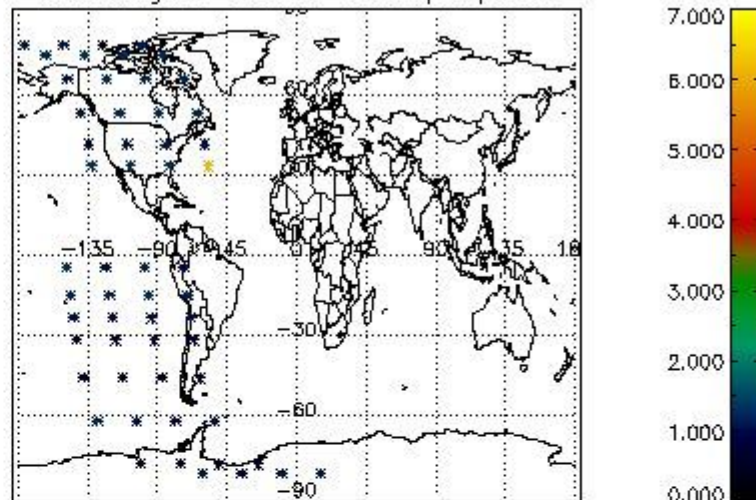
##### 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



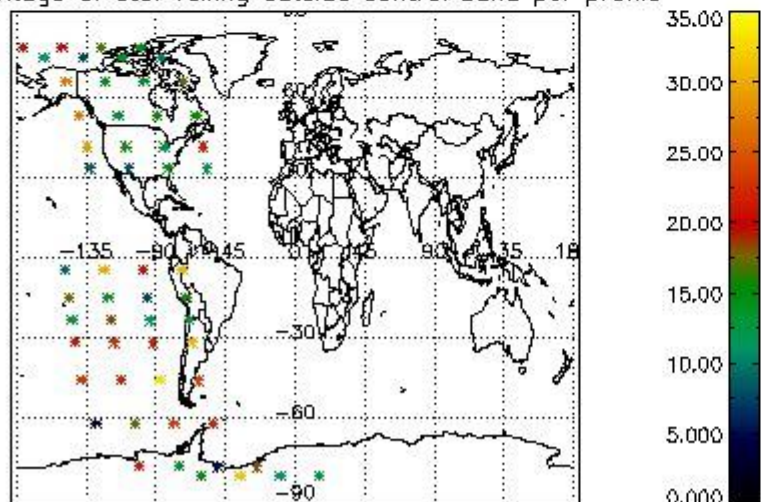
Percentage of cosmic ray hits per profile



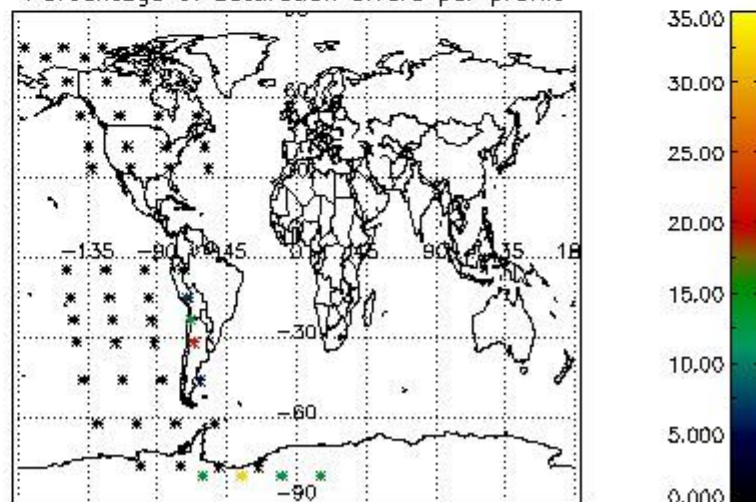
Percentage of datation errors per profile



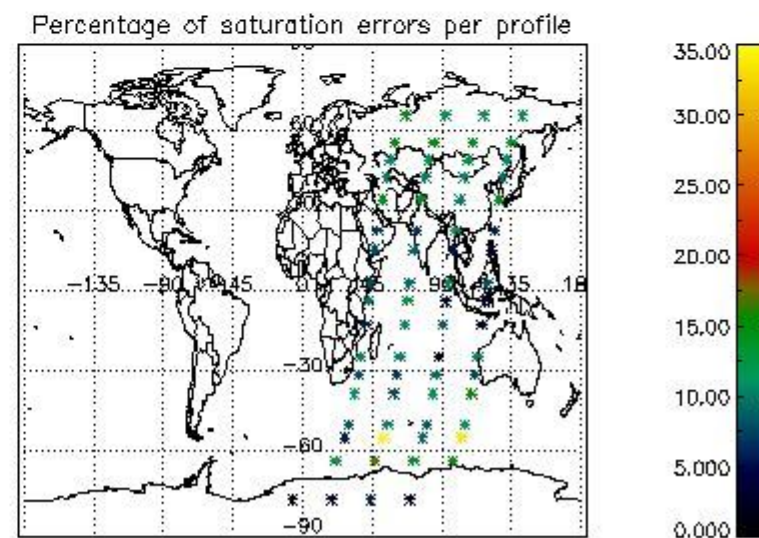
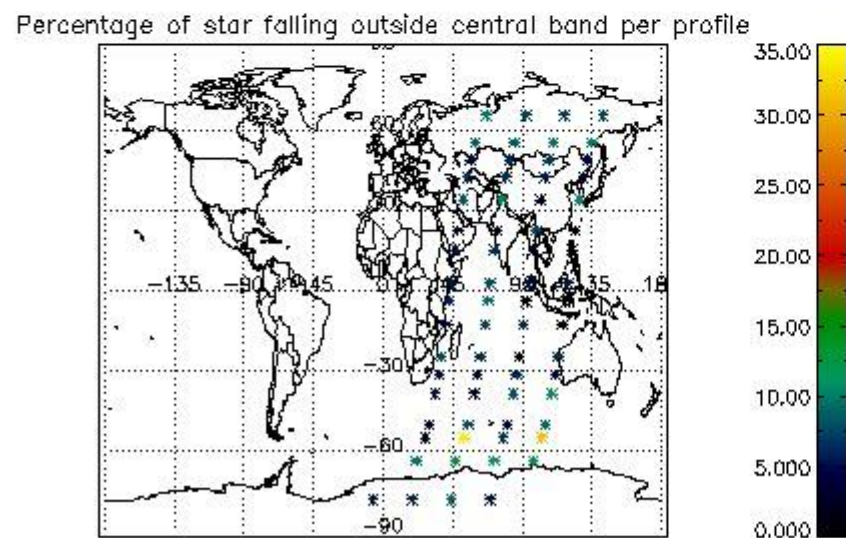
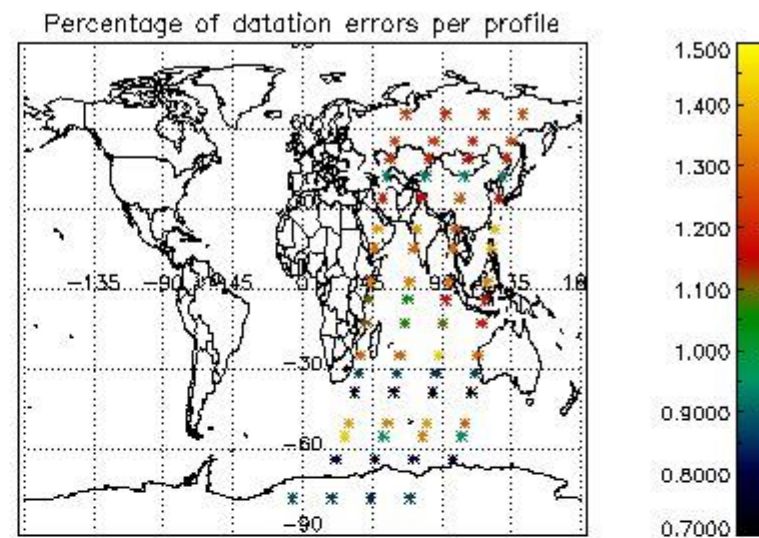
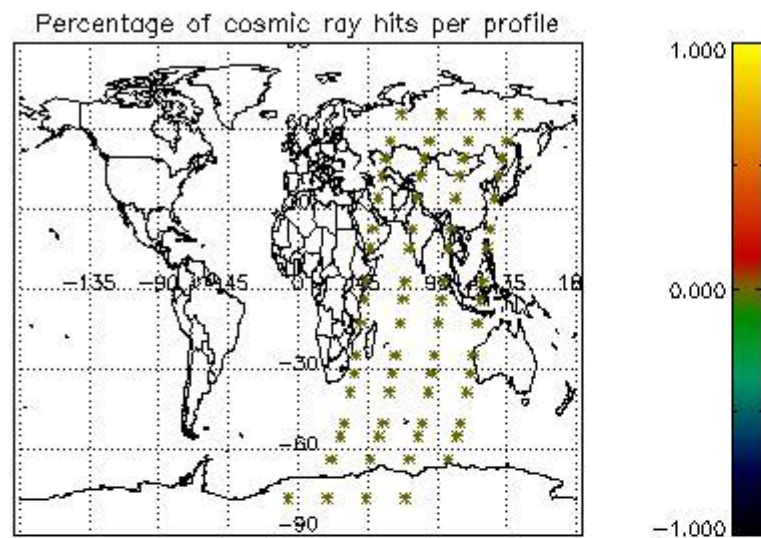
Percentage of star falling outside central band per profile



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

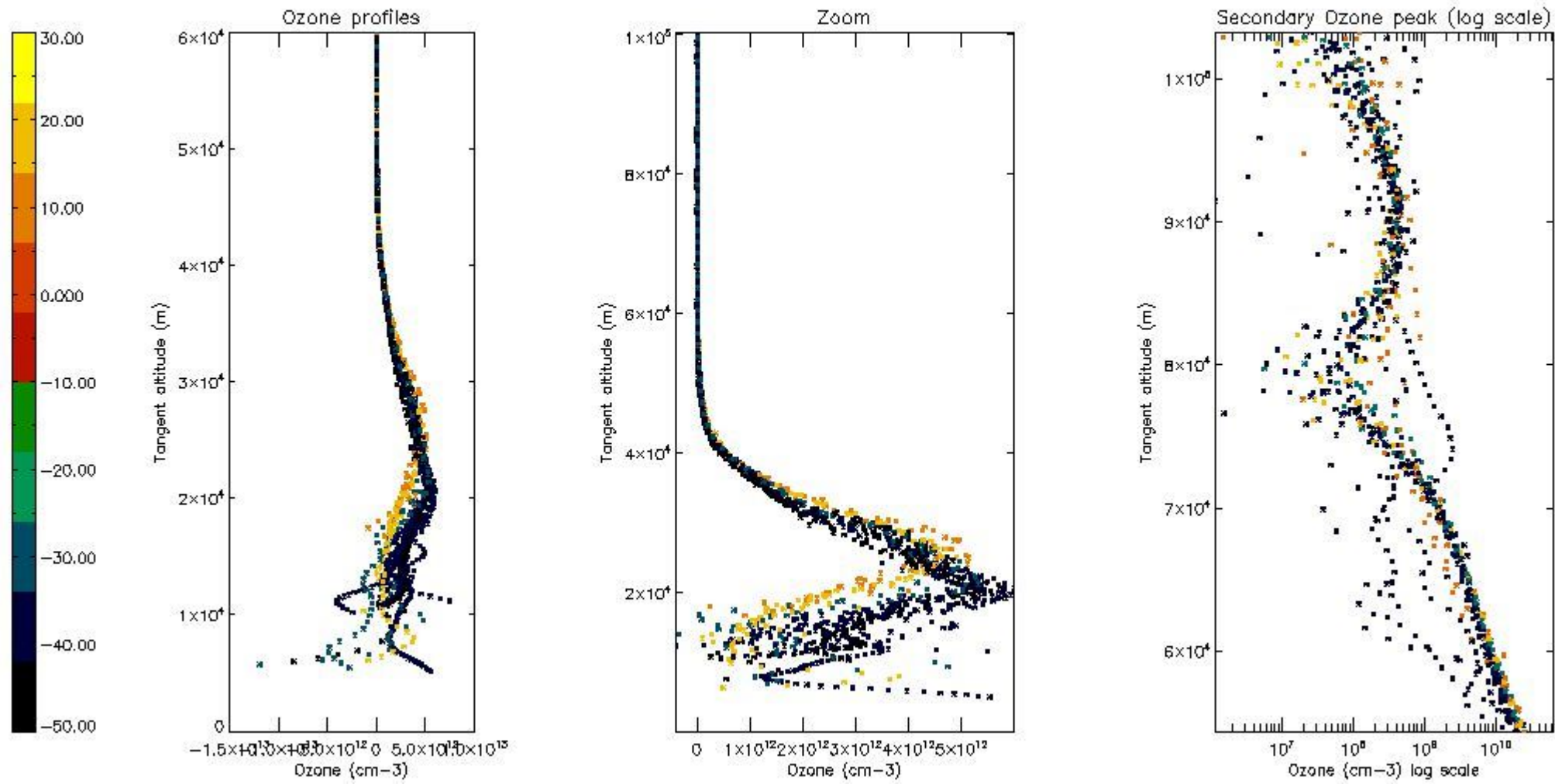
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	14
STD < 5	10

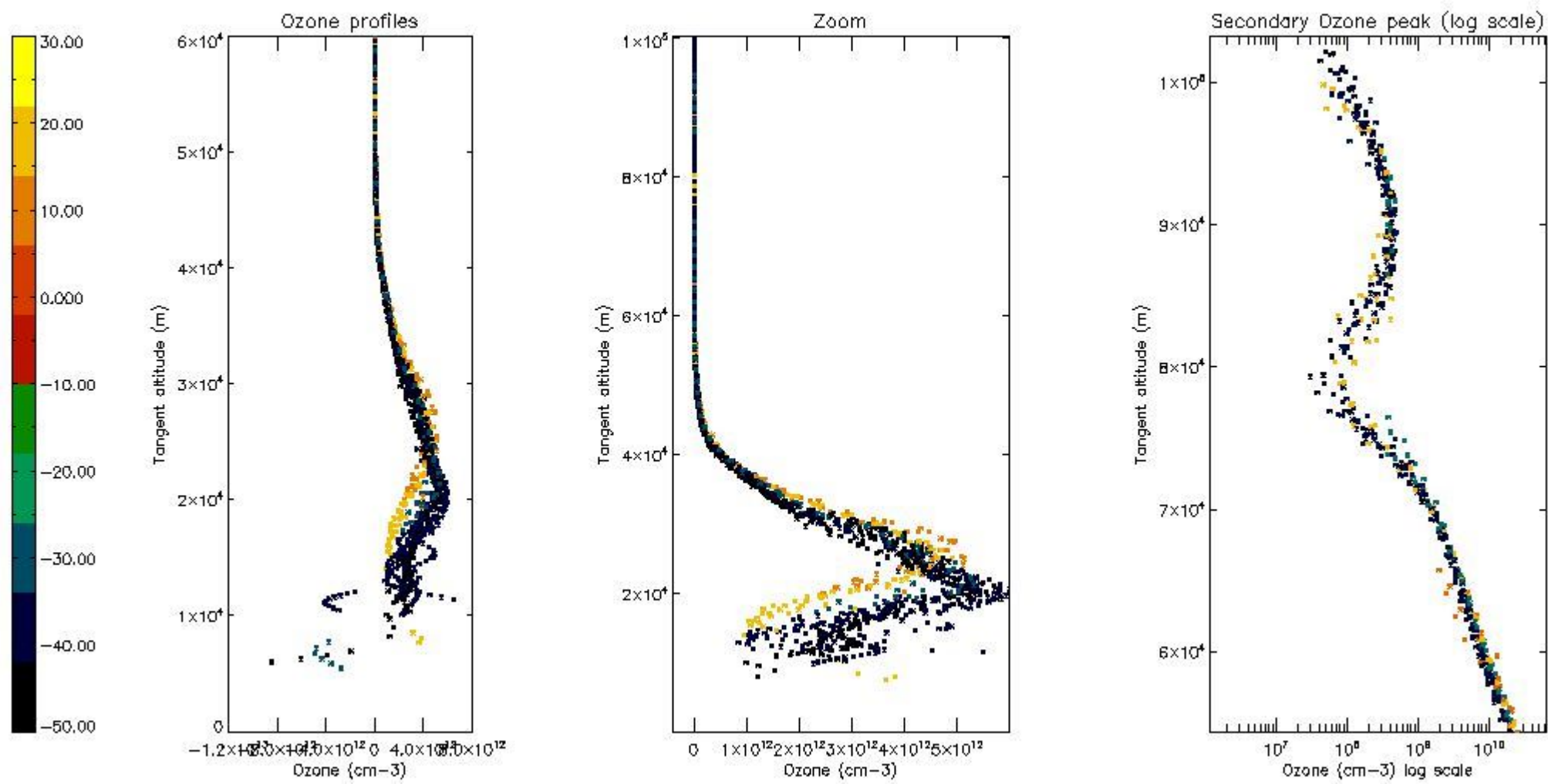
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



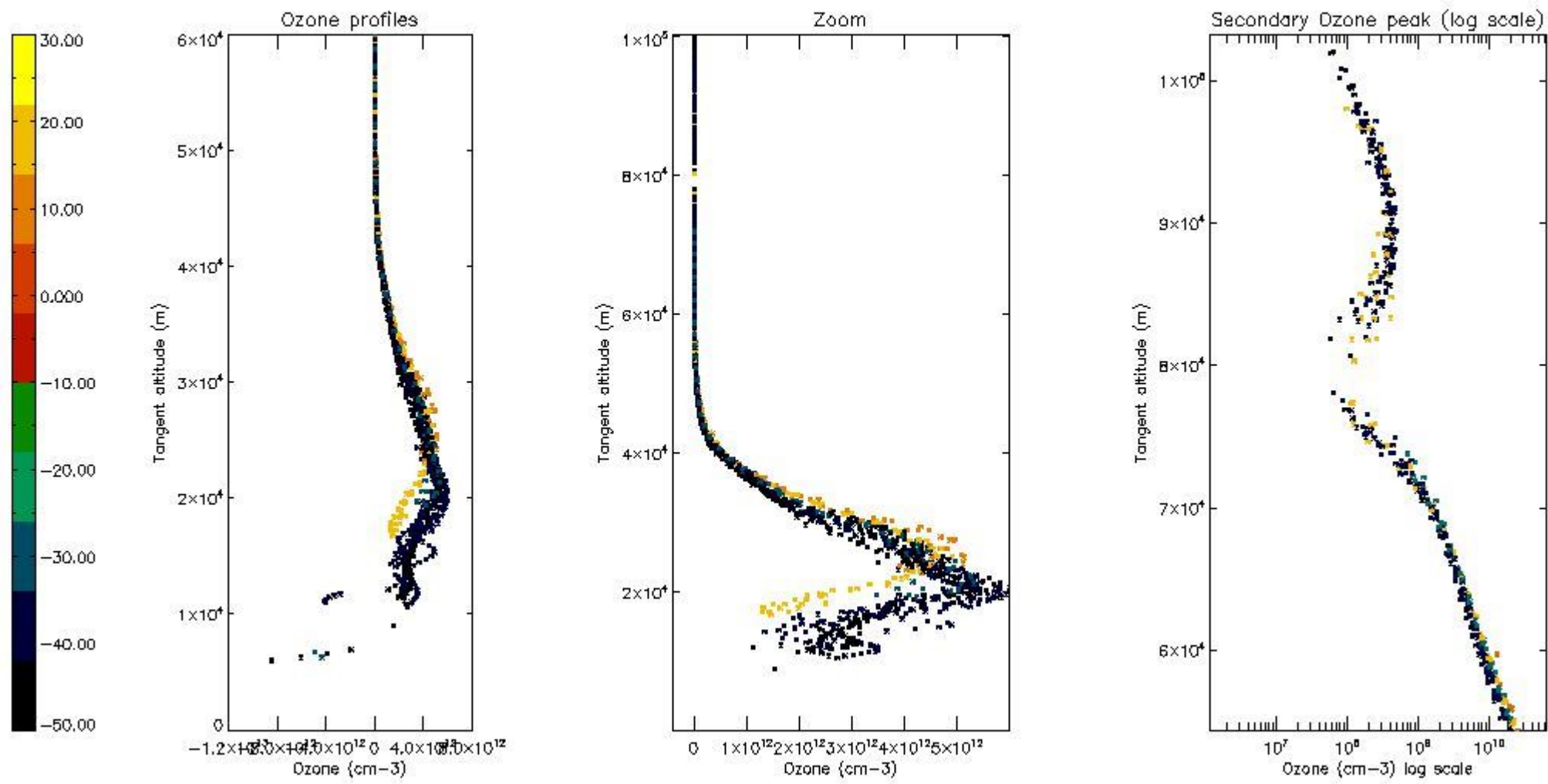
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



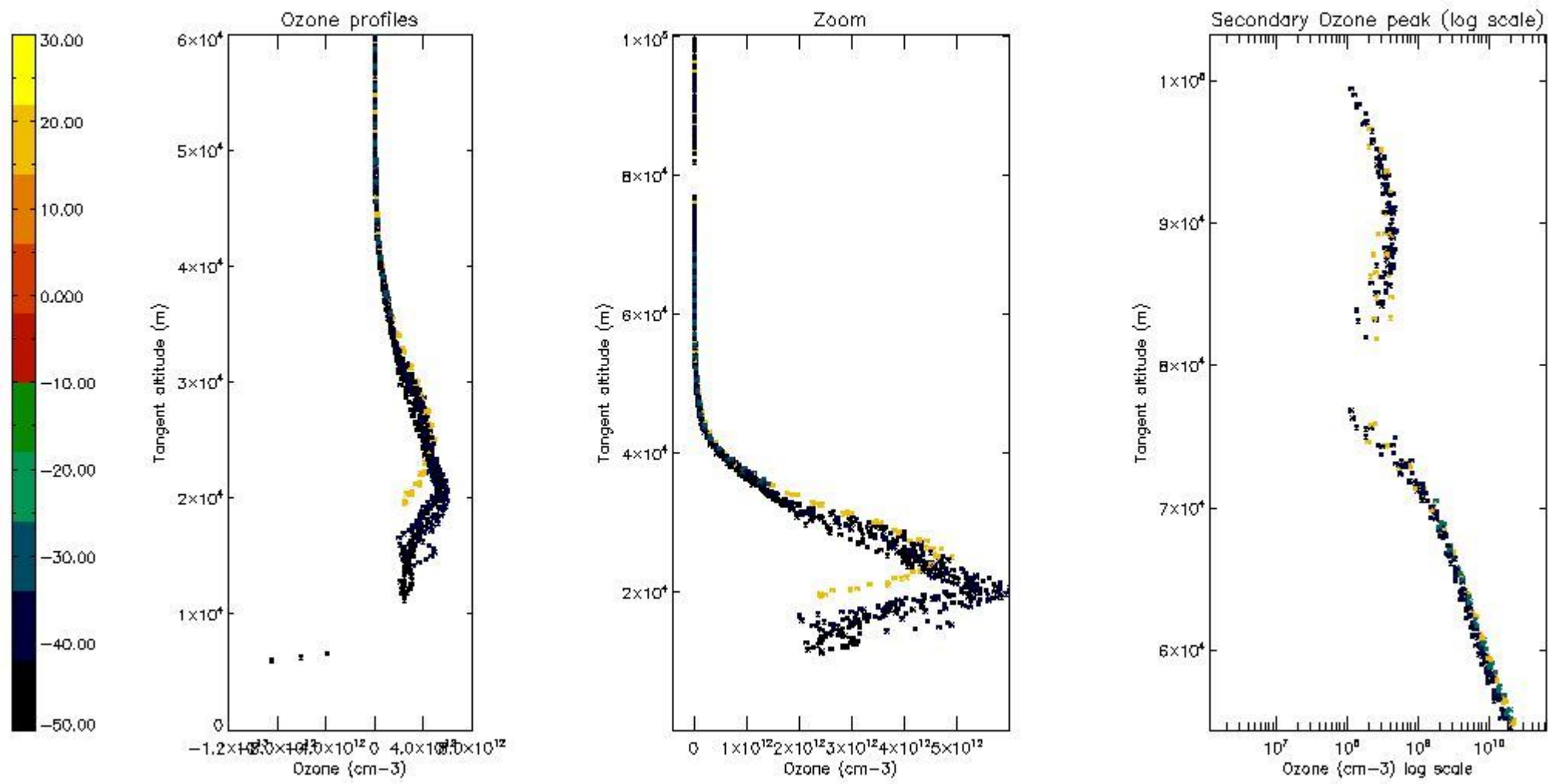
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



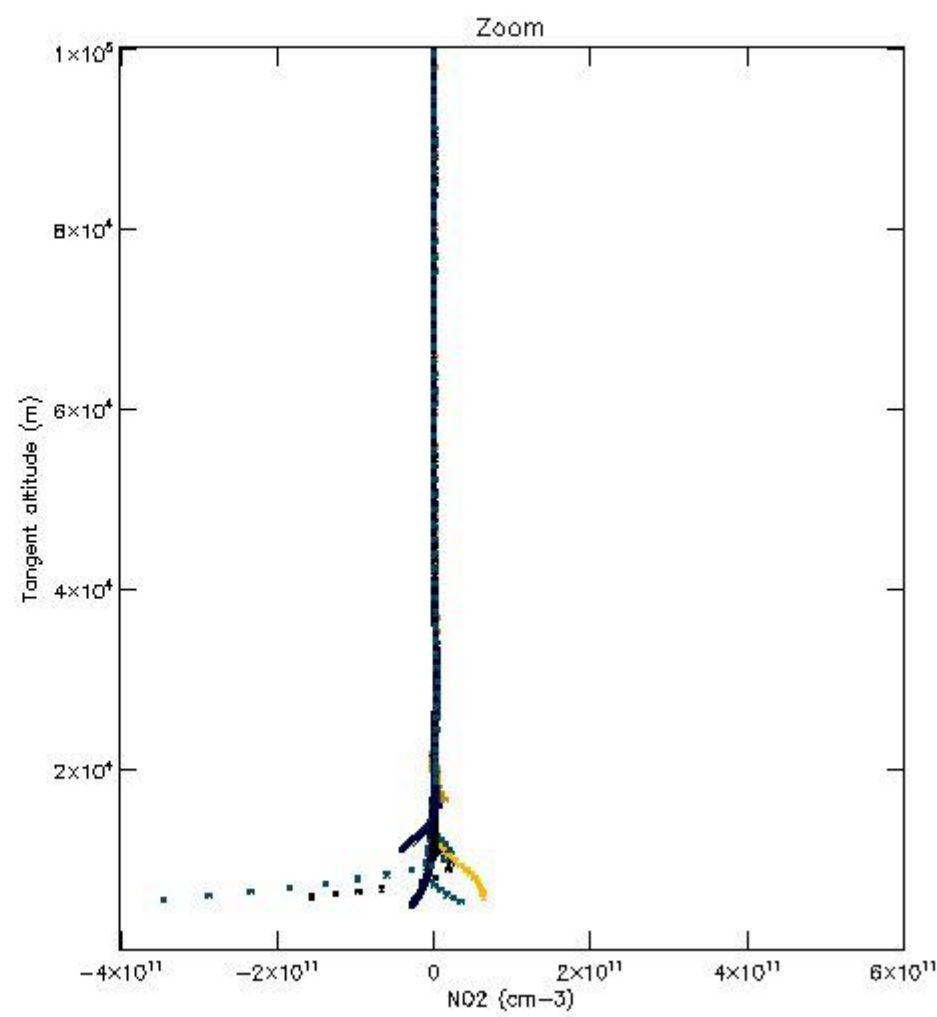
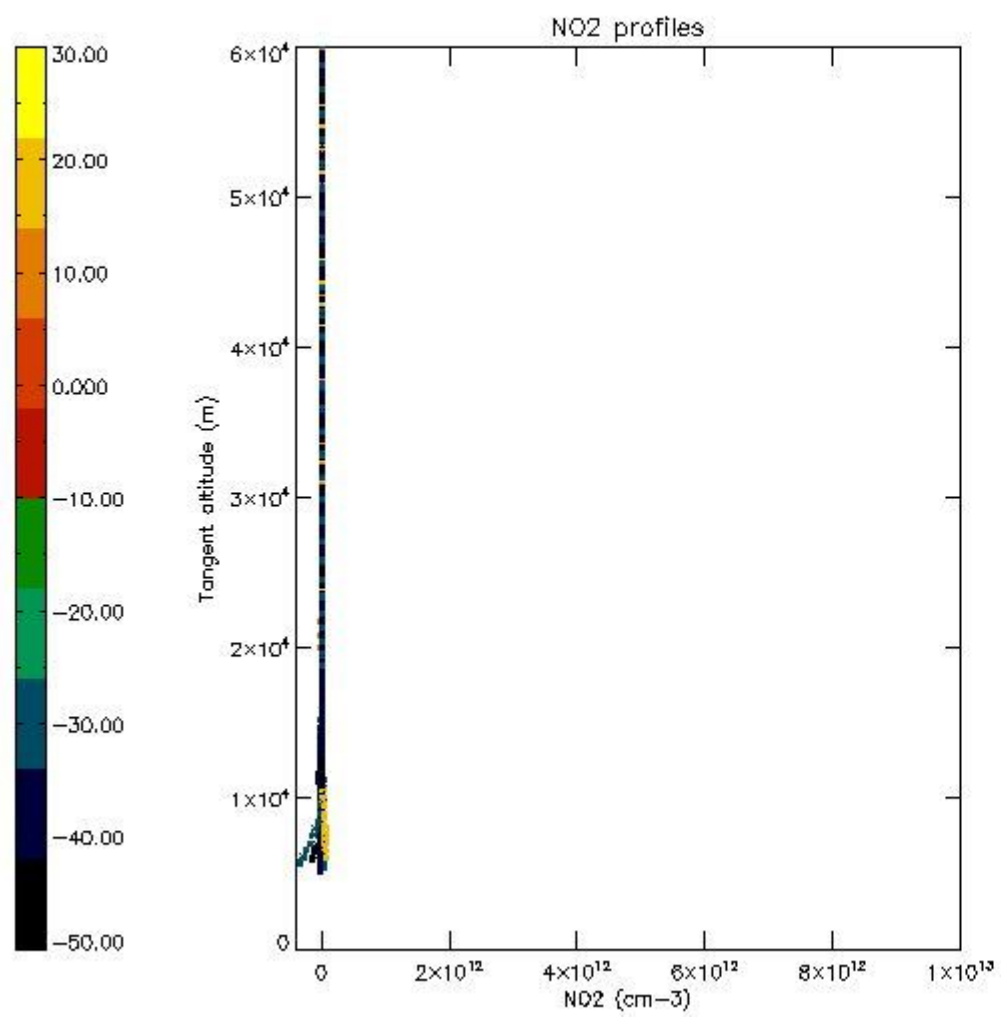
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



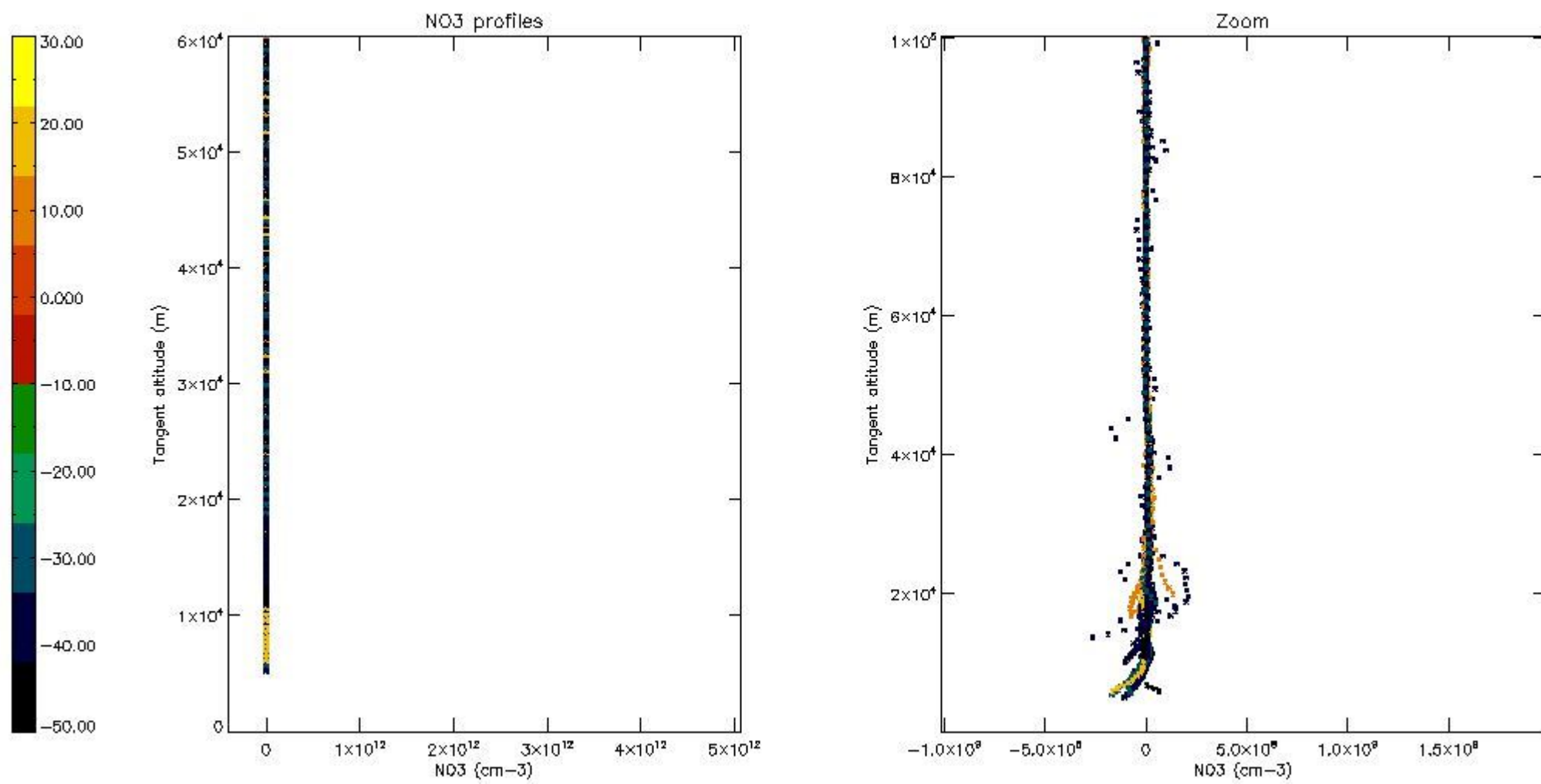
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

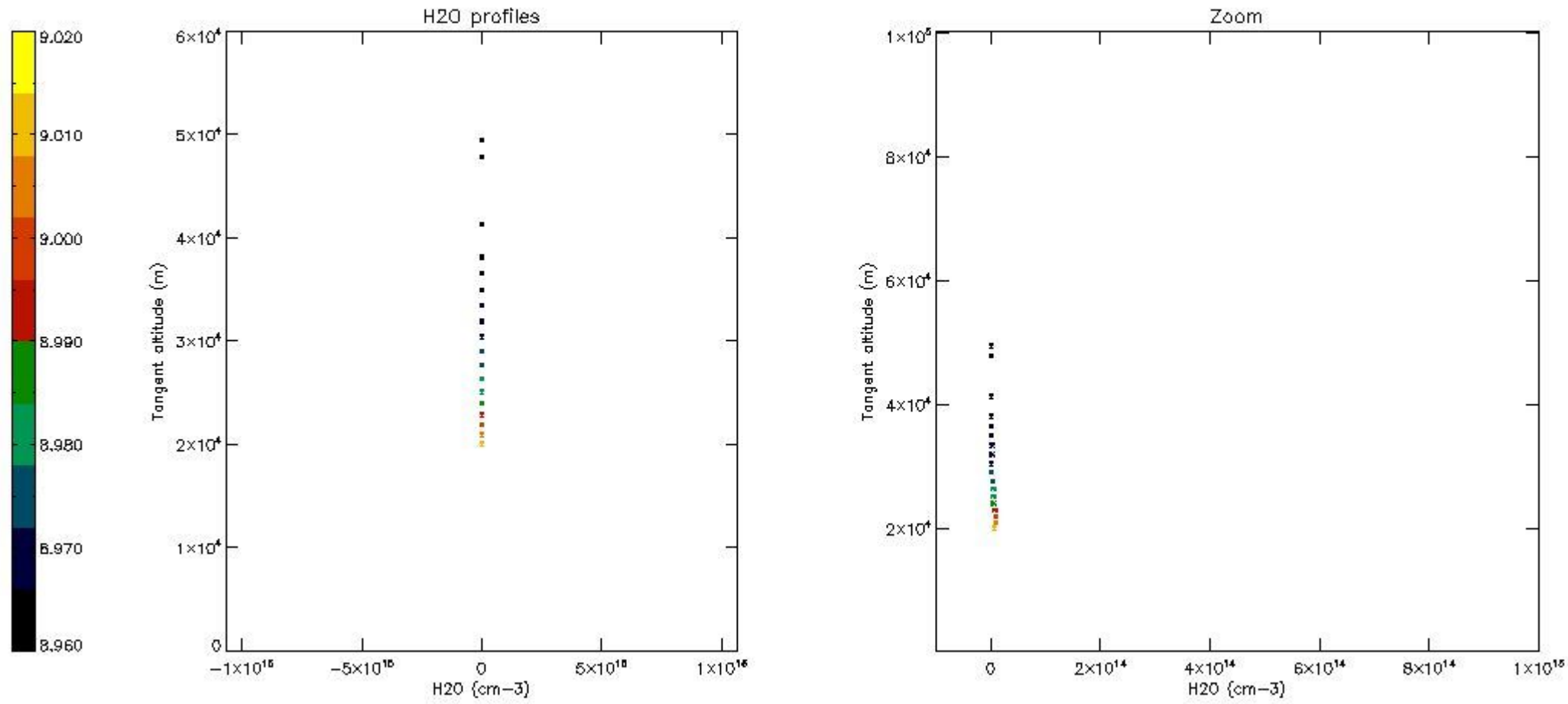
The colorbar represents the latitude.



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

The colorbar represents the latitude.





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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-SEP-2003 01:24:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-SEP-2003 01:24:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-SEP-2003 01:24:33

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

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

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

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#### [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	19APR2013 20:06:42
Data source version	GOMOS/6.01
Start time of products	13-09-2003 (13SEP2003 00:00:00)
Stop time of products	14-09-2003 (14SEP2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	128
Nb of prods with errors	4

## 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__2PRFIN20030913_012433_000000412019_00461_08030_8761.N1	13-SEP-2003 01:24:33	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	8030	No
2	GOM_NL__2PRFIN20030913_012648_000000512019_00461_08030_8762.N1	13-SEP-2003 01:26:48	Dark	51.000	9	Alp Eri	0.45300	24000.	102	8030	No
3	GOM_NL__2PRFIN20030913_013007_000000422019_00461_08030_8763.N1	13-SEP-2003 01:30:07	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	8030	No
4	GOM_NL__2PRFIN20030913_013349_000000432019_00461_08030_8764.N1	13-SEP-2003 01:33:49	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	8030	No
5	GOM_NL__2PRFIN20030913_013636_000000402019_00461_08030_8765.N1	13-SEP-2003 01:36:36	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	8030	No
6	GOM_NL__2PRFIN20030913_013759_000000452019_00461_08030_8766.N1	13-SEP-2003 01:37:59	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	8030	No
7	GOM_NL__2PRFIN20030913_014208_000000472019_00461_08030_8767.N1	13-SEP-2003 01:42:08	Dark	46.500	1014	Mars	0.0000	0.0000	93	8030	Yes
8	GOM_NL__2PRFIN20030913_014649_000000402019_00461_08030_8768.N1	13-SEP-2003 01:46:49	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	8030	No
9	GOM_NL__2PRFIN20030913_014948_000000402019_00461_08030_8769.N1	13-SEP-2003 01:49:48	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	8030	No
10	GOM_NL__2PRFIN20030913_015138_000000422019_00461_08030_8770.N1	13-SEP-2003 01:51:38	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	8030	No
11	GOM_NL__2PRFIN20030913_015331_000000532019_00461_08030_8771.N1	13-SEP-2003 01:53:31	Bright	53.000	140	88Gam Peg	2.8340	26000.	106	8030	No
12	GOM_NL__2PRFIN20030913_015552_000000432019_00461_08030_8772.N1	13-SEP-2003 01:55:52	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	8030	No
13	GOM_NL__2PRFIN20030913_015905_000000362019_00461_08030_8773.N1	13-SEP-2003 01:59:05	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	8030	No
14	GOM_NL__2PRFIN20030913_020108_000000362019_00461_08030_8774.N1	13-SEP-2003 02:01:08	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	8030	No
15	GOM_NL__2PRFIN20030913_020439_000000382019_00461_08030_8775.N1	13-SEP-2003 02:04:39	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8030	No
16	GOM_NL__2PRFIN20030913_020631_000000432019_00461_08030_8776.N1	13-SEP-2003 02:06:31	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	8030	No
17	GOM_NL__2PRFIN20030913_020857_000000422019_00461_08030_8777.N1	13-SEP-2003 02:08:57	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	8030	No
18	GOM_NL__2PRFIN20030913_021221_000000392019_00461_08030_8778.N1	13-SEP-2003 02:12:21	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	8030	No
19	GOM_NL__2PRFIN20030913_021414_000000582019_00461_08030_8779.N1	13-SEP-2003 02:14:14	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8030	No
20	GOM_NL__2PRFIN20030913_021616_000000712019_00461_08030_8780.N1	13-SEP-2003 02:16:16	Bright	70.500	35	33Alp Per	1.7950	6250.0	141	8030	No
21	GOM_NL__2PRFIN20030913_021930_000000392019_00461_08030_8781.N1	13-SEP-2003 02:19:30	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	8030	No
22	GOM_NL__2PRFIN20030913_022055_000000522019_00461_08030_8782.N1	13-SEP-2003 02:20:55	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	8030	No
23	GOM_NL__2PRFIN20030913_022328_000000642019_00461_08030_8783.N1	13-SEP-2003 02:23:28	Bright	64.000	6	13Alp Aur	0.080000	3400.0	128	8030	No
24	GOM_NL__2PRFIN20030913_022807_000000572019_00461_08030_8784.N1	13-SEP-2003 02:28:07	Bright	57.000	107	37The Aur	2.6490	11000.	114	8030	No
25	GOM_NL__2PRFIN20030913_023053_000000472019_00461_08030_8785.N1	13-SEP-2003 02:30:53	Bright	46.500	17	78Bet Gem	1.1610	4500.0	93	8030	No
26	GOM_NL__2PRFIN20030913_023305_000001062019_00461_08030_8786.N1	13-SEP-2003 02:33:05	Twilight	105.50	28	12Bet Tau	1.6500	15200.	211	8030	No
27	GOM_NL__2PRFIN20030913_023807_000000542019_00461_08030_8787.N1	13-SEP-2003 02:38:07	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	8030	No
28	GOM_NL__2PRFIN20030913_024251_000001022019_00461_08030_8788.N1	13-SEP-2003 02:42:51	Dark	102.00	14	58Alp Ori	0.87000	3000.0	204	8030	No
29	GOM_NL__2PRFIN20030913_024651_000000672019_00461_08030_8789.N1	13-SEP-2003 02:46:51	Dark	67.000	1	9Alp CMa	-1.4400	11000.	134	8030	No
30	GOM_NL__2PRFIN20030913_024914_000000482019_00461_08030_8790.N1	13-SEP-2003 02:49:14	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	8030	No
31	GOM_NL__2PRFIN20030913_025133_000000442019_00461_08030_8791.N1	13-SEP-2003 02:51:33	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	8030	No
32	GOM_NL__2PRFIN20030913_025432_000000512019_00461_08030_8792.N1	13-SEP-2003 02:54:32	Dark	50.500	41	Eps Car	1.8600	4100.0	101	8030	No
33	GOM_NL__2PRFIN20030913_030509_000000412019_00462_08031_9491.N1	13-SEP-2003 03:05:09	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	8031	No
34	GOM_NL__2PRFIN20030913_030724_000000452019_00462_08031_9492.N1	13-SEP-2003 03:07:24	Dark	44.500	9	Alp Eri	0.45300	24000.	89	8031	No
35	GOM_NL__2PRFIN20030913_031043_000000422019_00462_08031_9493.N1	13-SEP-2003 03:10:43	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	8031	No
36	GOM_NL__2PRFIN20030913_031425_000000432019_00462_08031_9494.N1	13-SEP-2003 03:14:25	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	8031	No
37	GOM_NL__2PRFIN20030913_031713_000000412019_00462_08031_9495.N1	13-SEP-2003 03:17:13	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	8031	No
38	GOM_NL__2PRFIN20030913_031835_000000452019_00462_08031_9496.N1	13-SEP-2003 03:18:35	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	8031	No
39	GOM_NL__2PRFIN20030913_032244_000000492019_00462_08031_9497.N1	13-SEP-2003 03:22:44	Dark	49.000	1014	Mars	0.0000	0.0000	98	8031	Yes
40	GOM_NL__2PRFIN20030913_032723_000000422019_00462_08031_9498.N1	13-SEP-2003 03:27:23	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	8031	No
41	GOM_NL__2PRFIN20030913_033023_000000422019_00462_08031_9499.N1	13-SEP-2003 03:30:23	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	8031	No
42	GOM_NL__2PRFIN20030913_033213_000000442019_00462_08031_9500.N1	13-SEP-2003 03:32:13	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	8031	No

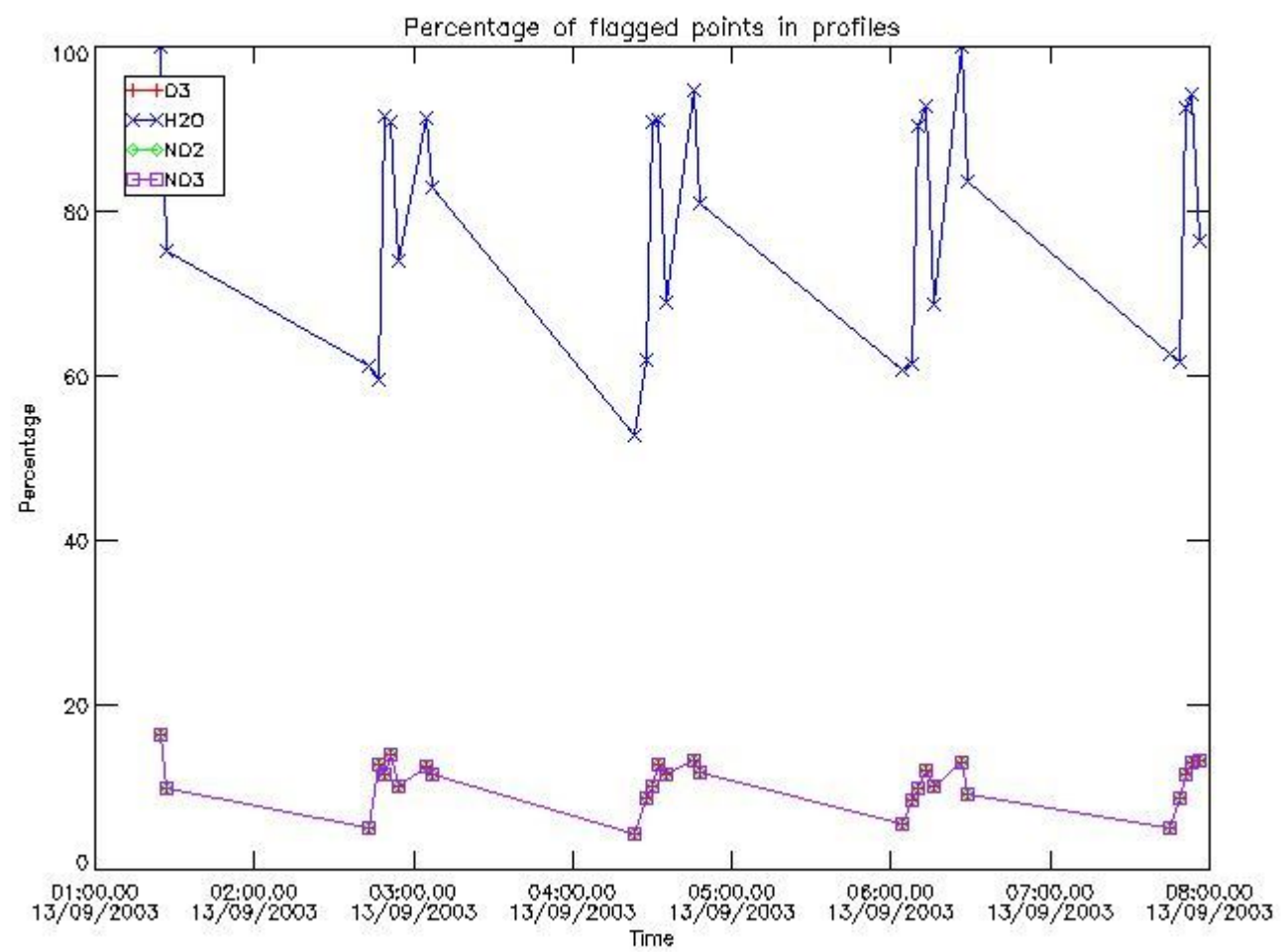
43	GOM_NL__2PRFIN20030913_033406_000000542019_00462_08031_9501.N1	13-SEP-2003 03:34:06	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	8031	No
44	GOM_NL__2PRFIN20030913_033628_000000402019_00462_08031_9502.N1	13-SEP-2003 03:36:28	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	8031	No
45	GOM_NL__2PRFIN20030913_033941_000000402019_00462_08031_9503.N1	13-SEP-2003 03:39:41	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	8031	No
46	GOM_NL__2PRFIN20030913_034143_000000392019_00462_08031_9504.N1	13-SEP-2003 03:41:43	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	8031	No
47	GOM_NL__2PRFIN20030913_034514_000000392019_00462_08031_9505.N1	13-SEP-2003 03:45:14	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	8031	No
48	GOM_NL__2PRFIN20030913_034706_000000432019_00462_08031_9506.N1	13-SEP-2003 03:47:06	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	8031	No
49	GOM_NL__2PRFIN20030913_034932_000000462019_00462_08031_9507.N1	13-SEP-2003 03:49:32	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	8031	No
50	GOM_NL__2PRFIN20030913_035256_000000352019_00462_08031_9508.N1	13-SEP-2003 03:52:56	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	8031	No
51	GOM_NL__2PRFIN20030913_035449_000000592019_00462_08031_9509.N1	13-SEP-2003 03:54:49	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	8031	No
52	GOM_NL__2PRFIN20030913_035651_000000682019_00462_08031_9510.N1	13-SEP-2003 03:56:51	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	8031	No
53	GOM_NL__2PRFIN20030913_040007_000000372019_00462_08031_9511.N1	13-SEP-2003 04:00:07	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	8031	No
54	GOM_NL__2PRFIN20030913_040132_000000382019_00462_08031_9512.N1	13-SEP-2003 04:01:32	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	8031	No
55	GOM_NL__2PRFIN20030913_040403_000000642019_00462_08031_9513.N1	13-SEP-2003 04:04:03	Bright	63.500	6	13Alp Aur	0.080000	3400.0	127	8031	No
56	GOM_NL__2PRFIN20030913_040843_000000592019_00462_08031_9514.N1	13-SEP-2003 04:08:43	Bright	59.000	107	37The Aur	2.6490	11000.	118	8031	No
57	GOM_NL__2PRFIN20030913_041128_000000472019_00462_08031_9515.N1	13-SEP-2003 04:11:28	Bright	47.000	17	78Bet Gem	1.1610	4500.0	94	8031	No
58	GOM_NL__2PRFIN20030913_041341_000000922019_00462_08031_9516.N1	13-SEP-2003 04:13:41	Twilight	91.500	28	12Bet Tau	1.6500	15200.	183	8031	No
59	GOM_NL__2PRFIN20030913_041844_000000562019_00462_08031_9517.N1	13-SEP-2003 04:18:44	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	8031	No
60	GOM_NL__2PRFIN20030913_042328_000001172019_00462_08031_9518.N1	13-SEP-2003 04:23:28	Dark	117.00	14	58Alp Ori	0.87000	3000.0	234	8031	No
61	GOM_NL__2PRFIN20030913_042728_000000602019_00462_08031_9519.N1	13-SEP-2003 04:27:28	Dark	59.500	1	9Alp CMa	-1.4400	11000.	119	8031	No
62	GOM_NL__2PRFIN20030913_042948_000000502019_00462_08031_9520.N1	13-SEP-2003 04:29:48	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	8031	No
63	GOM_NL__2PRFIN20030913_043209_000000402019_00462_08031_9521.N1	13-SEP-2003 04:32:09	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	8031	No
64	GOM_NL__2PRFIN20030913_043509_000000442019_00462_08031_9522.N1	13-SEP-2003 04:35:09	Dark	44.000	41	Eps Car	1.8600	4100.0	88	8031	No
65	GOM_NL__2PRFIN20030913_044545_000000392019_00463_08032_9520.N1	13-SEP-2003 04:45:45	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	8032	No
66	GOM_NL__2PRFIN20030913_044801_000000482019_00463_08032_9521.N1	13-SEP-2003 04:48:01	Dark	47.500	9	Alp Eri	0.45300	24000.	95	8032	No
67	GOM_NL__2PRFIN20030913_045119_000000412019_00463_08032_9522.N1	13-SEP-2003 04:51:19	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	8032	No
68	GOM_NL__2PRFIN20030913_045501_000000422019_00463_08032_9523.N1	13-SEP-2003 04:55:01	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	8032	No
69	GOM_NL__2PRFIN20030913_045749_000000392019_00463_08032_9524.N1	13-SEP-2003 04:57:49	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	8032	No
70	GOM_NL__2PRFIN20030913_045912_000000472019_00463_08032_9525.N1	13-SEP-2003 04:59:12	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	8032	No
71	GOM_NL__2PRFIN20030913_050320_000000522019_00463_08032_9526.N1	13-SEP-2003 05:03:20	Dark	52.000	1014	Mars	0.0000	0.0000	104	8032	Yes
72	GOM_NL__2PRFIN20030913_050759_000000422019_00463_08032_9527.N1	13-SEP-2003 05:07:59	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	8032	No
73	GOM_NL__2PRFIN20030913_051100_000000412019_00463_08032_9528.N1	13-SEP-2003 05:11:00	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	8032	No
74	GOM_NL__2PRFIN20030913_051250_000000422019_00463_08032_9529.N1	13-SEP-2003 05:12:50	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	8032	No
75	GOM_NL__2PRFIN20030913_051441_000000552019_00463_08032_9530.N1	13-SEP-2003 05:14:41	Bright	54.500	140	88Gam Peg	2.8340	26000.	109	8032	No
76	GOM_NL__2PRFIN20030913_051703_000000432019_00463_08032_9531.N1	13-SEP-2003 05:17:03	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	8032	No
77	GOM_NL__2PRFIN20030913_052017_000000372019_00463_08032_9532.N1	13-SEP-2003 05:20:17	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	8032	No
78	GOM_NL__2PRFIN20030913_052221_000000392019_00463_08032_9533.N1	13-SEP-2003 05:22:21	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	8032	No
79	GOM_NL__2PRFIN20030913_052551_000000382019_00463_08032_9534.N1	13-SEP-2003 05:25:51	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	8032	No
80	GOM_NL__2PRFIN20030913_052742_000000482019_00463_08032_9535.N1	13-SEP-2003 05:27:42	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	8032	No
81	GOM_NL__2PRFIN20030913_053007_000000472019_00463_08032_9536.N1	13-SEP-2003 05:30:07	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	8032	No
82	GOM_NL__2PRFIN20030913_053333_000000392019_00463_08032_9537.N1	13-SEP-2003 05:33:33	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	8032	No
83	GOM_NL__2PRFIN20030913_053524_000000582019_00463_08032_9538.N1	13-SEP-2003 05:35:24	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8032	No
84	GOM_NL__2PRFIN20030913_053726_000000652019_00463_08032_9539.N1	13-SEP-2003 05:37:26	Bright	65.000	35	33Alp Per	1.7950	6250.0	130	8032	No
85	GOM_NL__2PRFIN20030913_054043_000000382019_00463_08032_9540.N1	13-SEP-2003 05:40:43	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	8032	No
86	GOM_NL__2PRFIN20030913_054209_000000522019_00463_08032_9541.N1	13-SEP-2003 05:42:09	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	8032	No
87	GOM_NL__2PRFIN20030913_054439_000000662019_00463_08032_9542.N1	13-SEP-2003 05:44:39	Bright	65.500	6	13Alp Aur	0.080000	3400.0	131	8032	No
88	GOM_NL__2PRFIN20030913_054919_000000582019_00463_08032_9543.N1	13-SEP-2003 05:49:19	Bright	57.500	107	37The Aur	2.6490	11000.	115	8032	No
89	GOM_NL__2PRFIN20030913_055205_000000592019_00463_08032_9544.N1	13-SEP-2003 05:52:05	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	8032	No
90	GOM_NL__2PRFIN20030913_055418_000001012019_00463_08032_9545.N1	13-SEP-2003 05:54:18	Twilight	101.00	28	12Bet Tau	1.6500	15200.	202	8032	No
91	GOM_NL__2PRFIN20030913_055921_000000502019_00463_08032_9546.N1	13-SEP-2003 05:59:21	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	8032	No
92	GOM_NL__2PRFIN20030913_060407_000001002019_00463_08032_9547.N1	13-SEP-2003 06:04:07	Dark	99.500	14	58Alp Ori	0.87000	3000.0	199	8032	No
93	GOM_NL__2PRFIN20030913_060806_000000602019_00463_08032_9548.N1	13-SEP-2003 06:08:06	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	8032	No
94	GOM_NL__2PRFIN20030913_061027_000000522019_00463_08032_9549.N1	13-SEP-2003 06:10:27	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	8032	No
95	GOM_NL__2PRFIN20030913_061246_000000432019_00463_08032_9550.N1	13-SEP-2003 06:12:46	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	8032	No
96	GOM_NL__2PRFIN20030913_061545_000000502019_00463_08032_9551.N1	13-SEP-2003 06:15:45	Dark	50.000	41	Eps Car	1.8600	4100.0	100	8032	No
97	GOM_NL__2PRFIN20030913_062621_000000392019_00464_08033_9509.N1	13-SEP-2003 06:26:21	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	8033	No
98	GOM_NL__2PRFIN20030913_062837_000000562019_00464_08033_9510.N1	13-SEP-2003 06:28:37	Dark	55.500	9	Alp Eri	0.45300	24000.	111	8033	No
99	GOM_NL__2PRFIN20030913_063155_000000492019_00464_08033_9511.N1	13-SEP-2003 06:31:55	Straylight	48.500	148	Alp Tuc	2.8780	4100.0	97	8033	No
100	GOM_NL__2PRFIN20030913_063538_000000492019_00464_08033_9512.N1	13-SEP-2003 06:35:38	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	8033	No
101	GOM_NL__2PRFIN20030913_063825_000000412019_00464_08033_9513.N1	13-SEP-2003 06:38:25	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	8033	No

102	GOM_NL__2PRFIN20030913_063948_000000472019_00464_08033_9514.N1	13-SEP-2003 06:39:48	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	8033	No
103	GOM_NL__2PRFIN20030913_064356_000000502019_00464_08033_9515.N1	13-SEP-2003 06:43:56	Dark	49.500	1014	Mars	0.0000	0.0000	99	8033	Yes
104	GOM_NL__2PRFIN20030913_064837_000000412019_00464_08033_9516.N1	13-SEP-2003 06:48:37	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	8033	No
105	GOM_NL__2PRFIN20030913_065136_000000412019_00464_08033_9517.N1	13-SEP-2003 06:51:36	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	8033	No
106	GOM_NL__2PRFIN20030913_065325_000000422019_00464_08033_9518.N1	13-SEP-2003 06:53:25	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	8033	No
107	GOM_NL__2PRFIN20030913_065517_000000542019_00464_08033_9519.N1	13-SEP-2003 06:55:17	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	8033	No
108	GOM_NL__2PRFIN20030913_065739_000000422019_00464_08033_9520.N1	13-SEP-2003 06:57:39	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	8033	No
109	GOM_NL__2PRFIN20030913_070054_000000372019_00464_08033_9521.N1	13-SEP-2003 07:00:54	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	8033	No
110	GOM_NL__2PRFIN20030913_070257_000000392019_00464_08033_9522.N1	13-SEP-2003 07:02:57	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	8033	No
111	GOM_NL__2PRFIN20030913_070627_000000382019_00464_08033_9523.N1	13-SEP-2003 07:06:27	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8033	No
112	GOM_NL__2PRFIN20030913_070817_000000462019_00464_08033_9524.N1	13-SEP-2003 07:08:17	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	8033	No
113	GOM_NL__2PRFIN20030913_071043_000000452019_00464_08033_9525.N1	13-SEP-2003 07:10:43	Bright	45.000	110	37Del Cas	2.6780	8900.0	90	8033	No
114	GOM_NL__2PRFIN20030913_071409_000000392019_00464_08033_9526.N1	13-SEP-2003 07:14:09	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	8033	No
115	GOM_NL__2PRFIN20030913_071559_000000582019_00464_08033_9527.N1	13-SEP-2003 07:15:59	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	8033	No
116	GOM_NL__2PRFIN20030913_071801_000000662019_00464_08033_9528.N1	13-SEP-2003 07:18:01	Bright	66.000	35	33Alp Per	1.7950	6250.0	132	8033	No
117	GOM_NL__2PRFIN20030913_072120_000000372019_00464_08033_9529.N1	13-SEP-2003 07:21:20	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	8033	No
118	GOM_NL__2PRFIN20030913_072245_000000352019_00464_08033_9530.N1	13-SEP-2003 07:22:45	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	8033	No
119	GOM_NL__2PRFIN20030913_072514_000000622019_00464_08033_9531.N1	13-SEP-2003 07:25:14	Bright	62.000	6	13Alp Aur	0.080000	3400.0	124	8033	No
120	GOM_NL__2PRFIN20030913_072955_000000572019_00464_08033_9532.N1	13-SEP-2003 07:29:55	Bright	56.500	107	37The Aur	2.6490	11000.	113	8033	No
121	GOM_NL__2PRFIN20030913_073242_000000462019_00464_08033_9533.N1	13-SEP-2003 07:32:42	Bright	46.000	17	78Bet Gem	1.1610	4500.0	92	8033	No
122	GOM_NL__2PRFIN20030913_073455_000001112019_00464_08033_9534.N1	13-SEP-2003 07:34:55	Twilight	110.50	28	12Bet Tau	1.6500	15200.	221	8033	No
123	GOM_NL__2PRFIN20030913_073958_000000432019_00464_08033_9535.N1	13-SEP-2003 07:39:58	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	8033	No
124	GOM_NL__2PRFIN20030913_074444_000001012019_00464_08033_9536.N1	13-SEP-2003 07:44:44	Dark	100.50	14	58Alp Ori	0.87000	3000.0	201	8033	No
125	GOM_NL__2PRFIN20030913_074843_000000592019_00464_08033_9537.N1	13-SEP-2003 07:48:43	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	8033	No
126	GOM_NL__2PRFIN20030913_075104_000000482019_00464_08033_9538.N1	13-SEP-2003 07:51:04	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	8033	No
127	GOM_NL__2PRFIN20030913_075323_000000432019_00464_08033_9539.N1	13-SEP-2003 07:53:23	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	8033	No
128	GOM_NL__2PRFIN20030913_075621_000000392019_00464_08033_9540.N1	13-SEP-2003 07:56:21	Dark	38.500	41	Eps Car	1.8600	4100.0	77	8033	No

### 3. Quality information per product

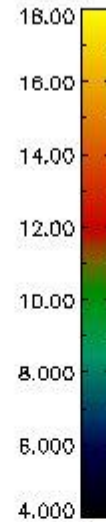
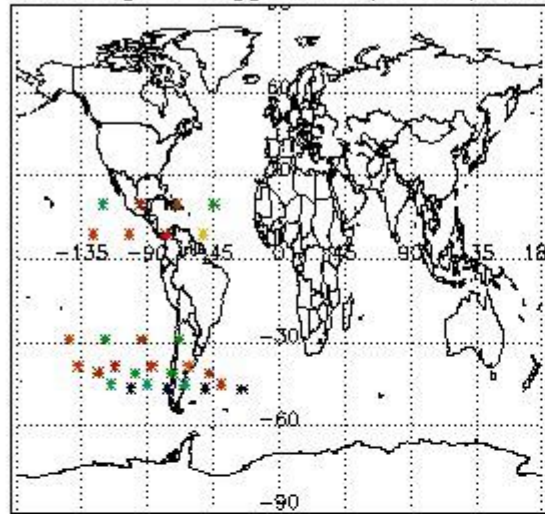
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

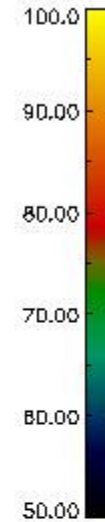
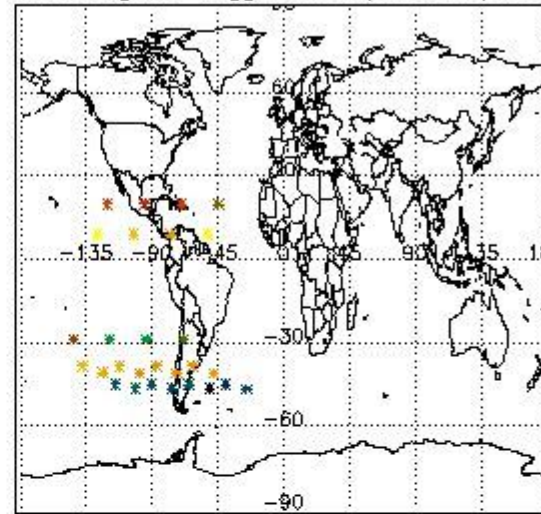


*3.2 Plot quality information per product (world map)*

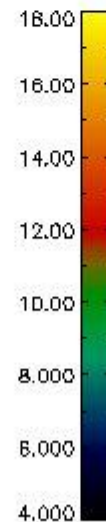
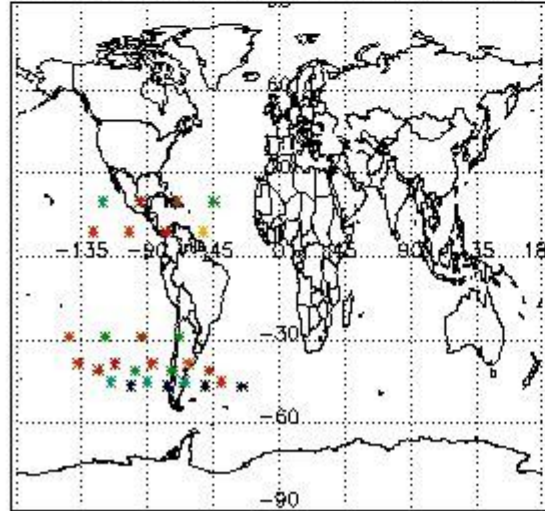
Percentage of flagged data per O3 profile



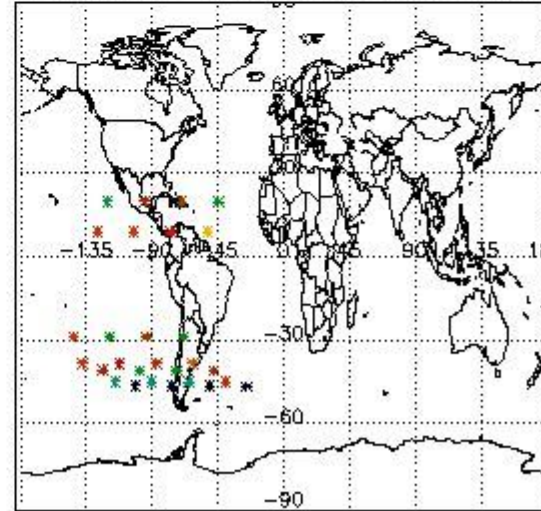
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

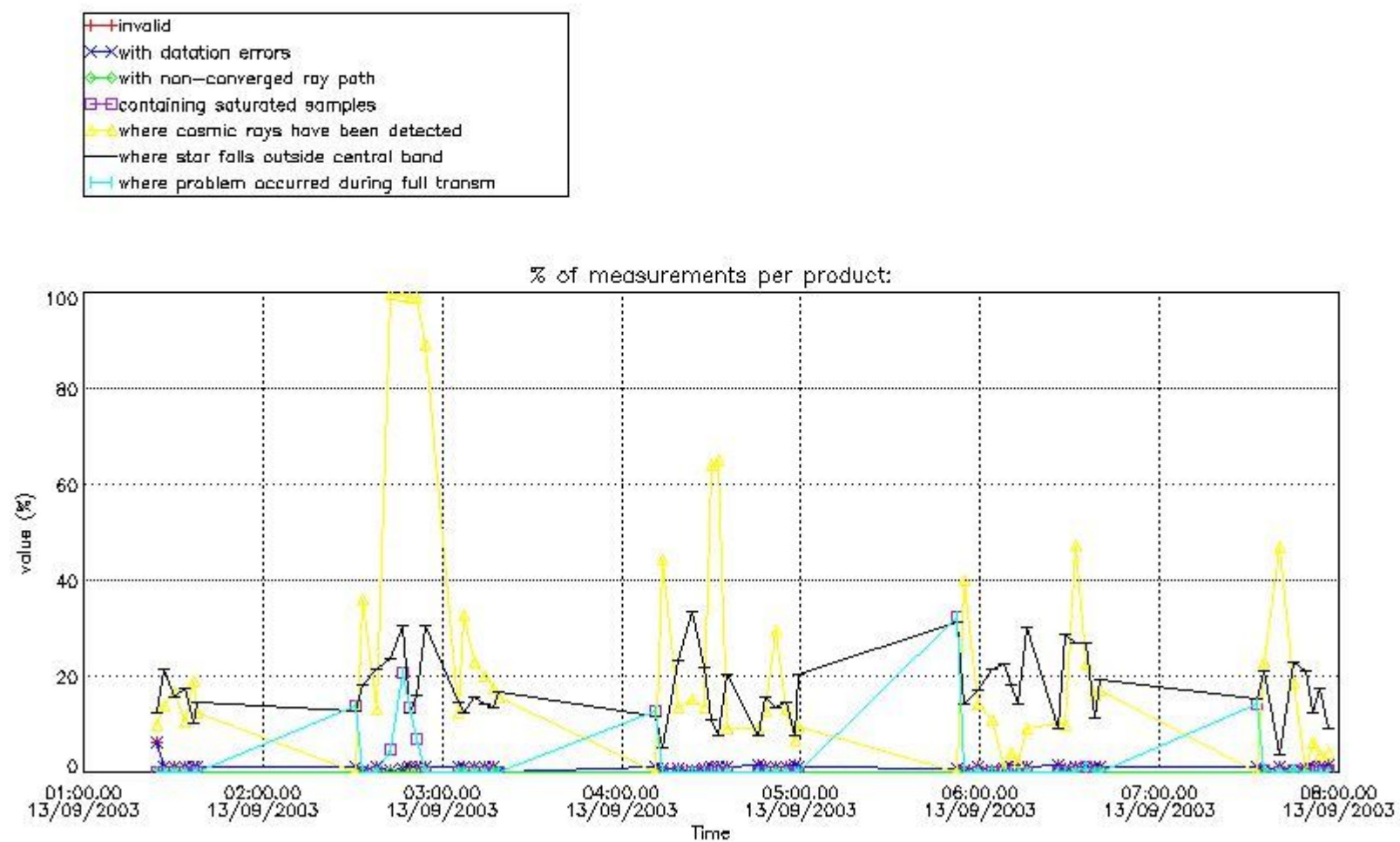


#### 4. Level 1 quality information per product

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.

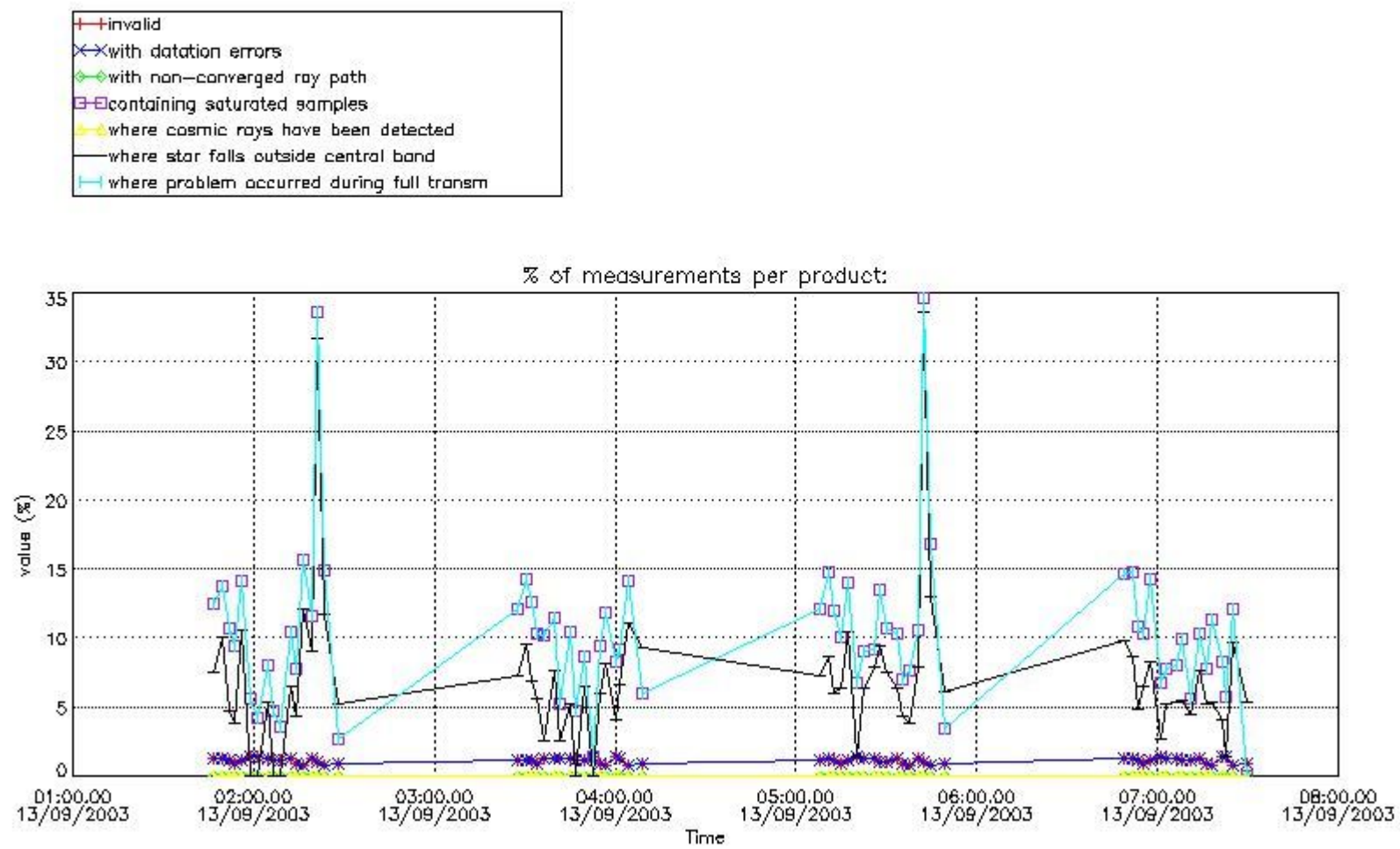
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

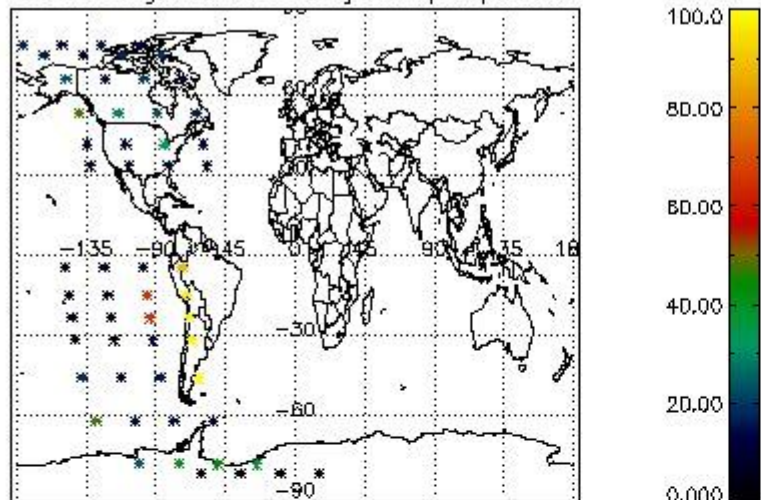




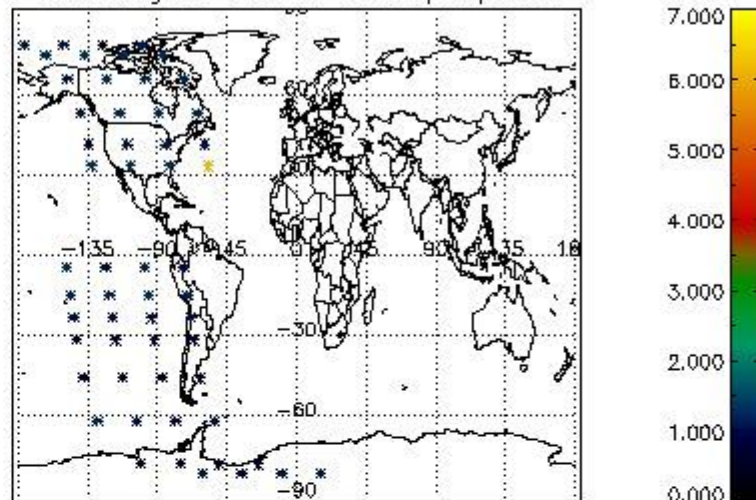
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

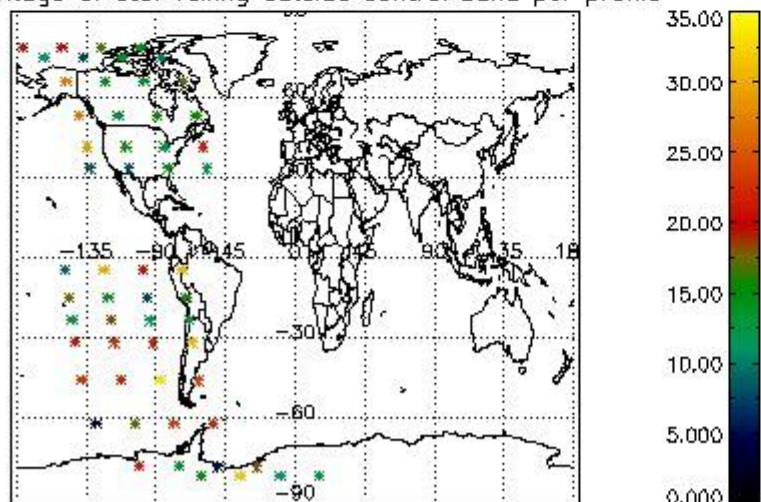
Percentage of cosmic ray hits per profile



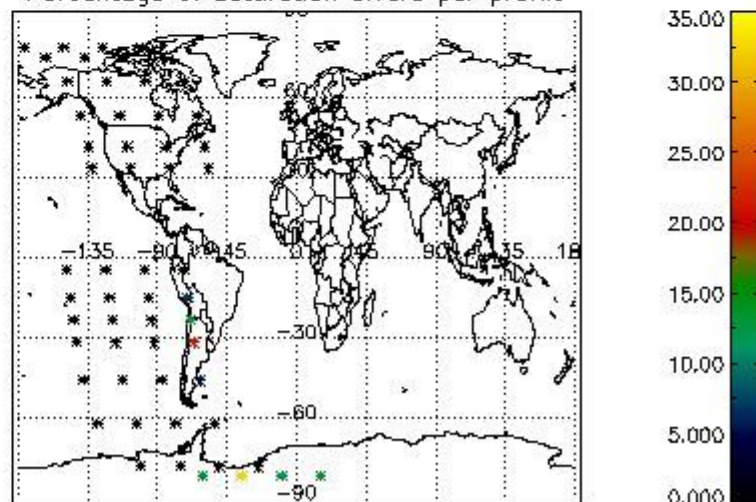
Percentage of datation errors per profile



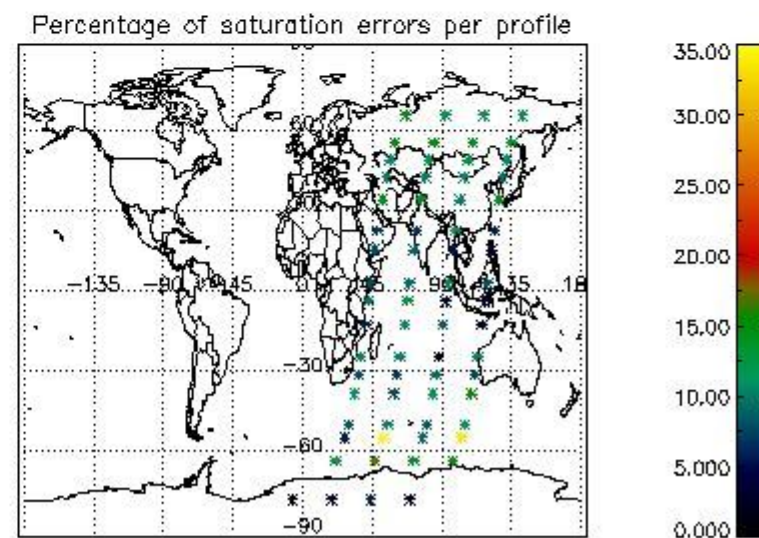
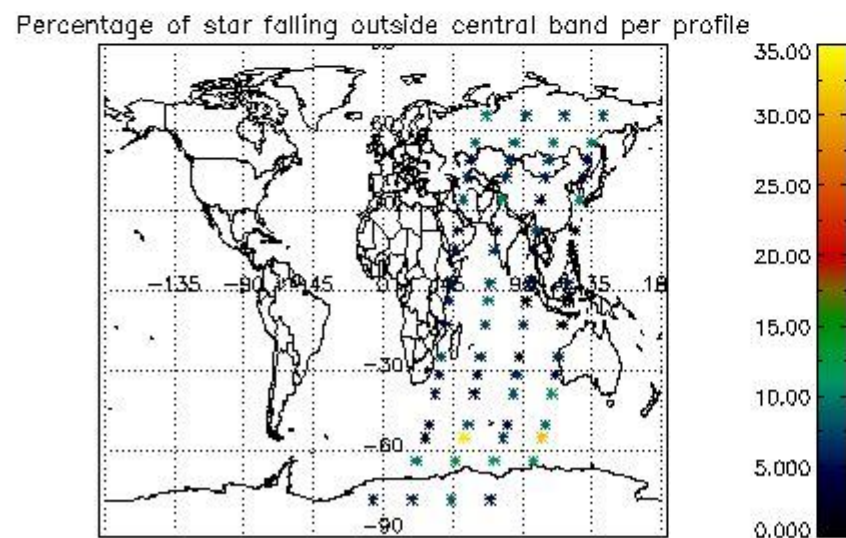
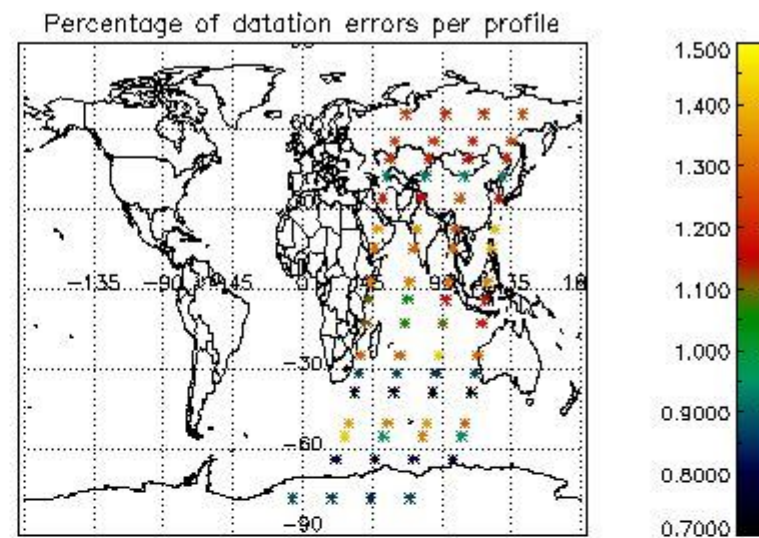
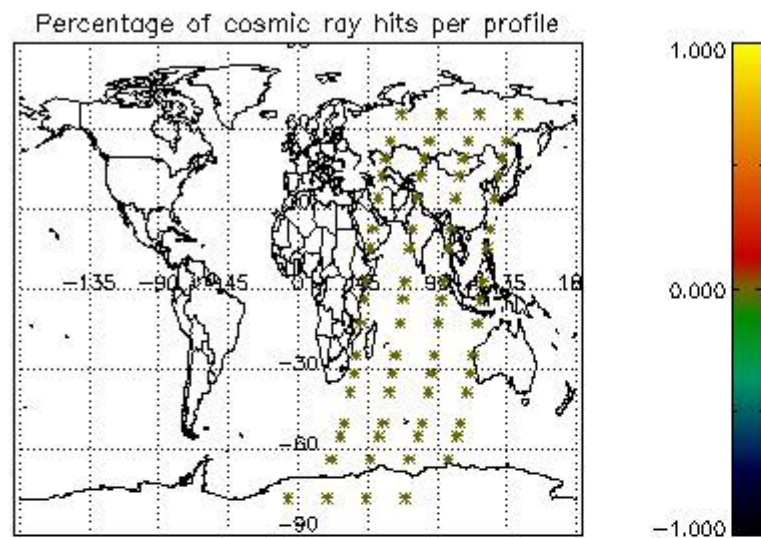
Percentage of star falling outside central band per profile



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

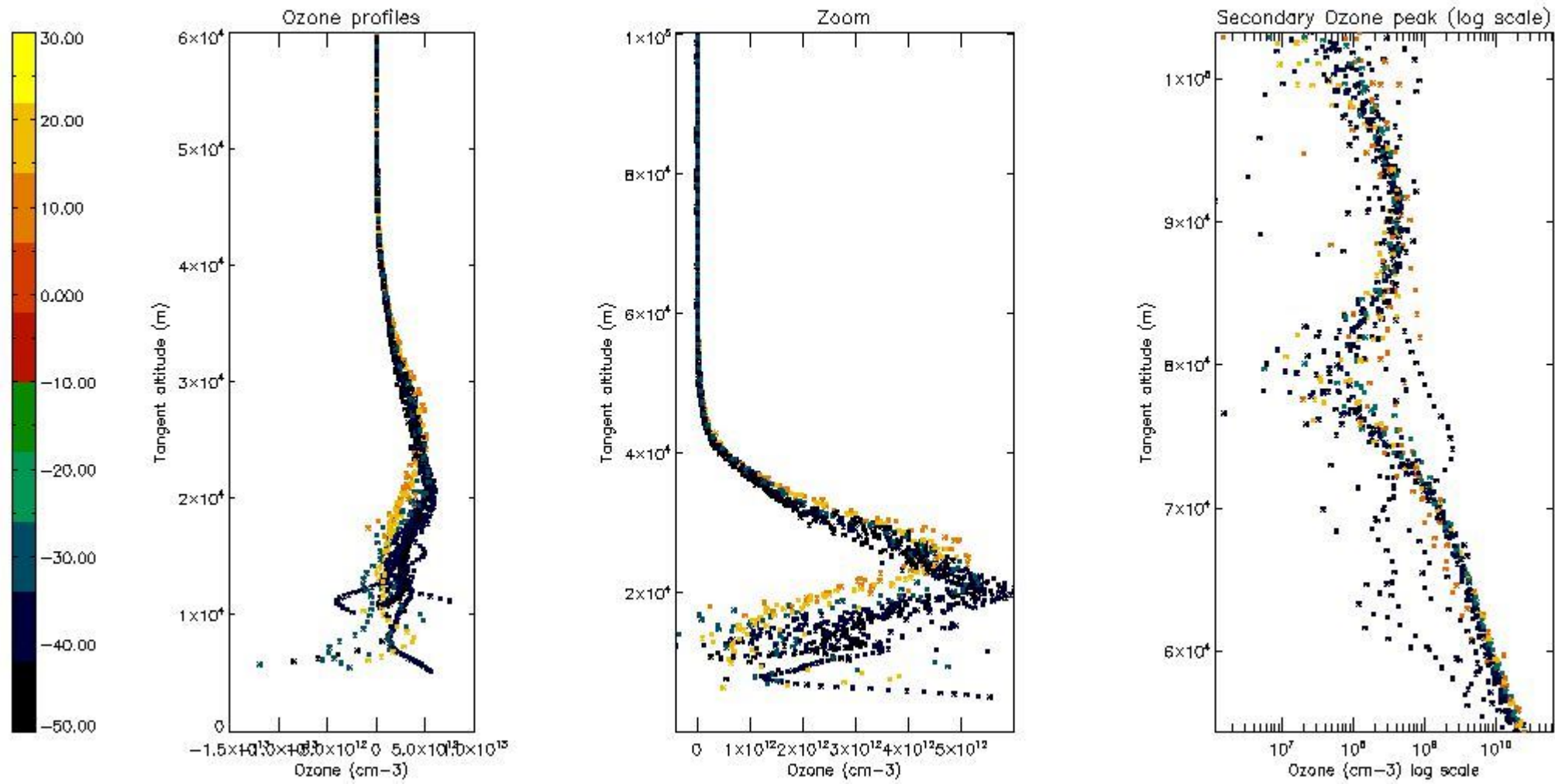
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	14
STD < 5	10

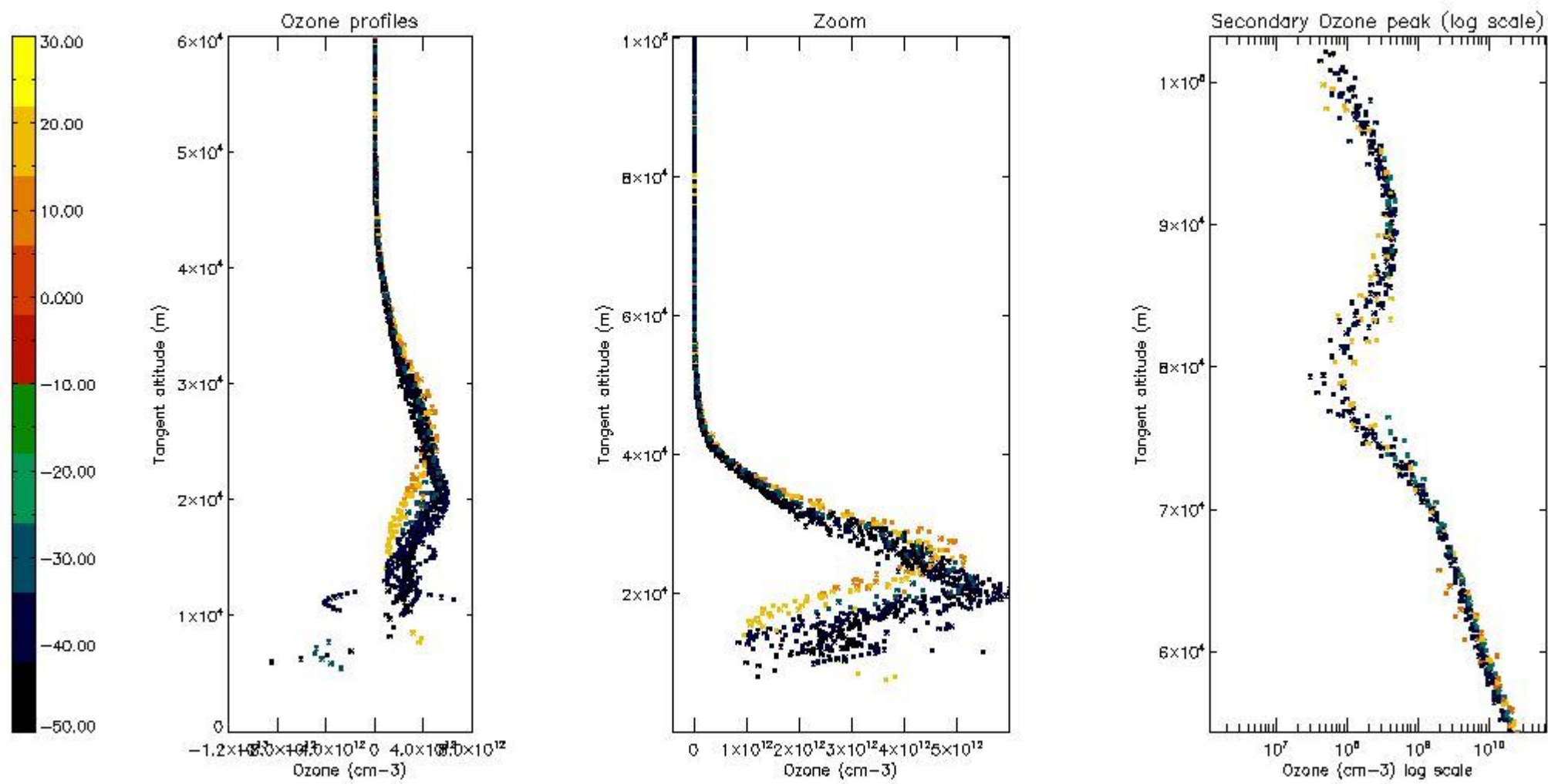
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



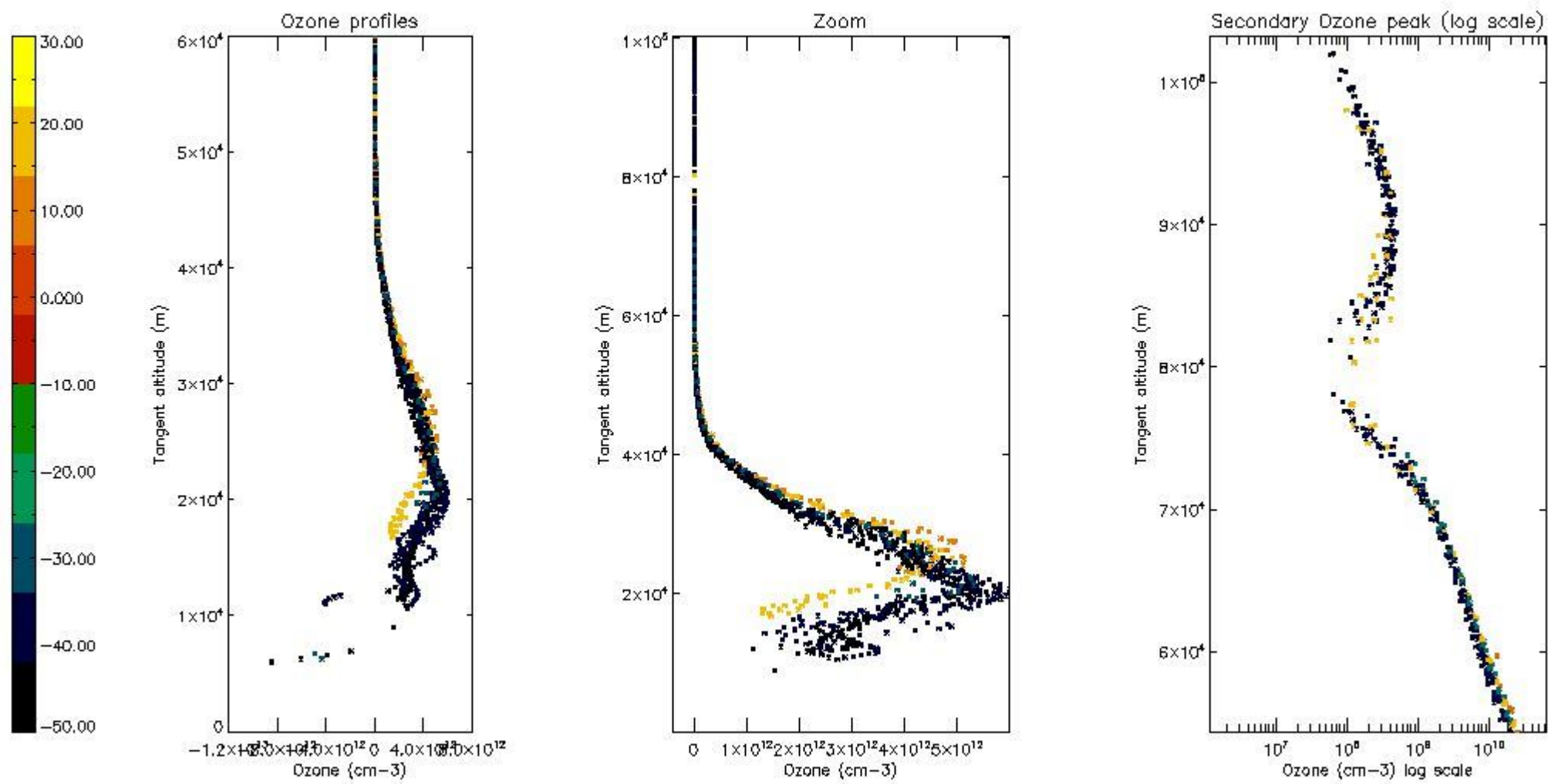
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



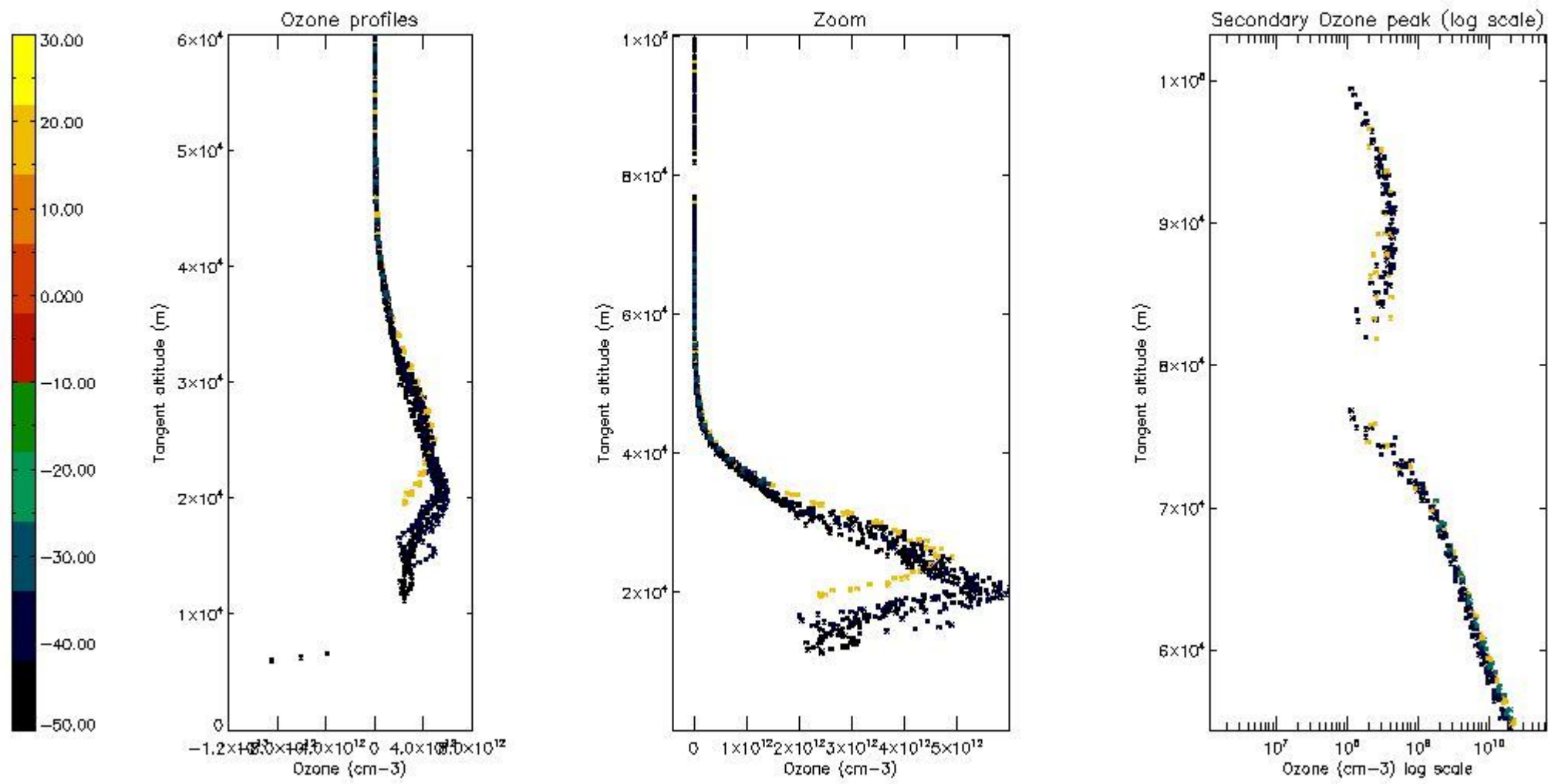
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



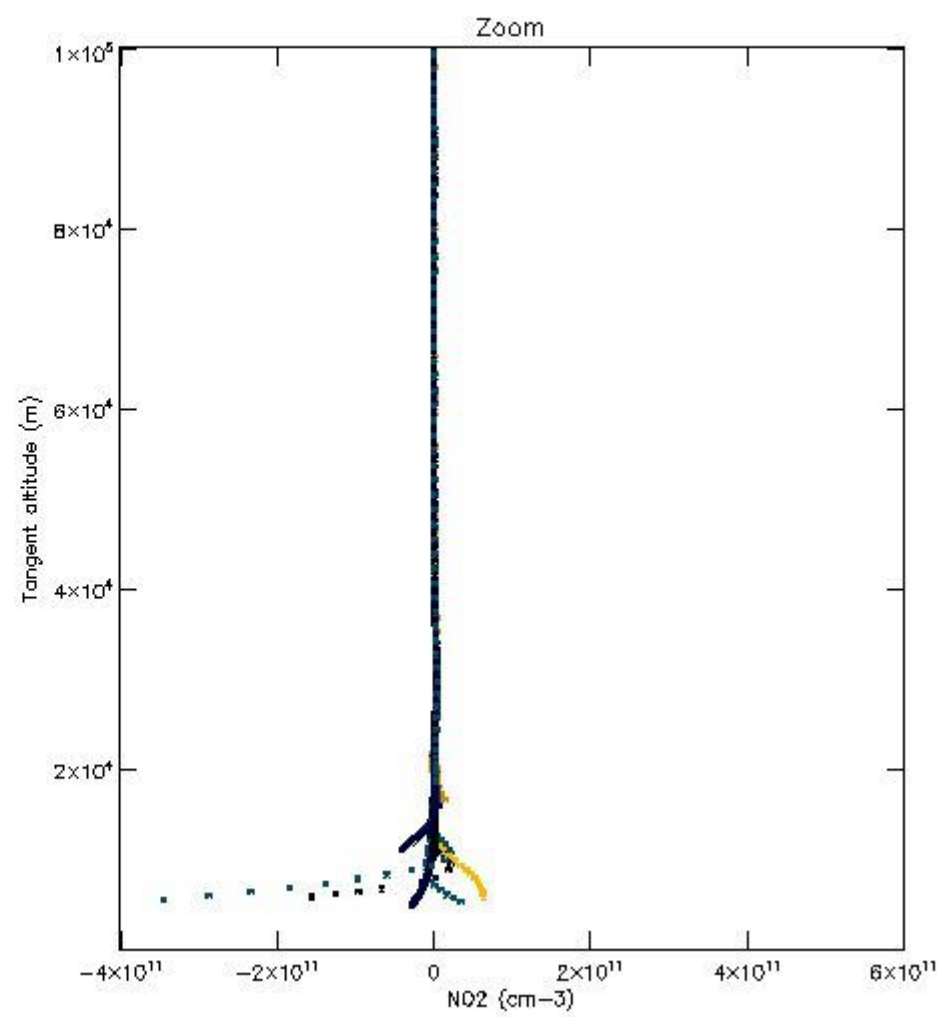
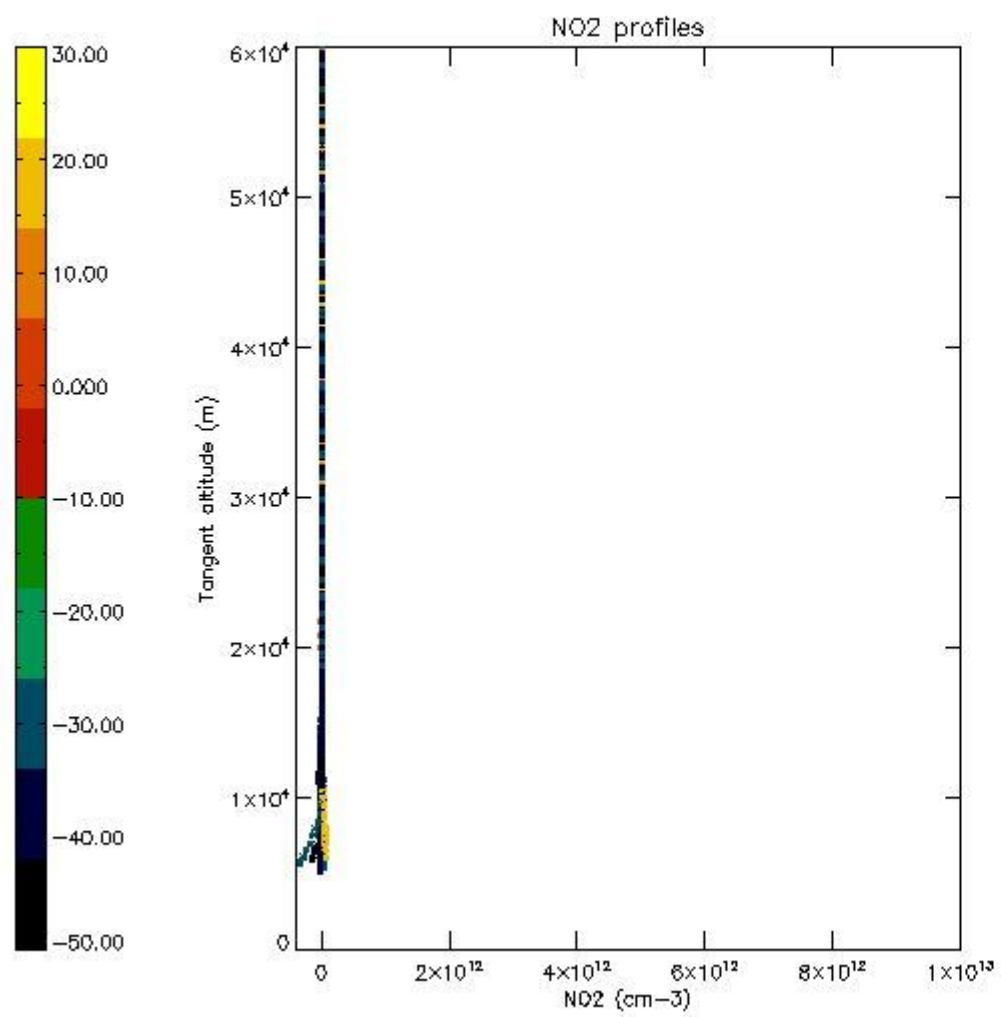
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

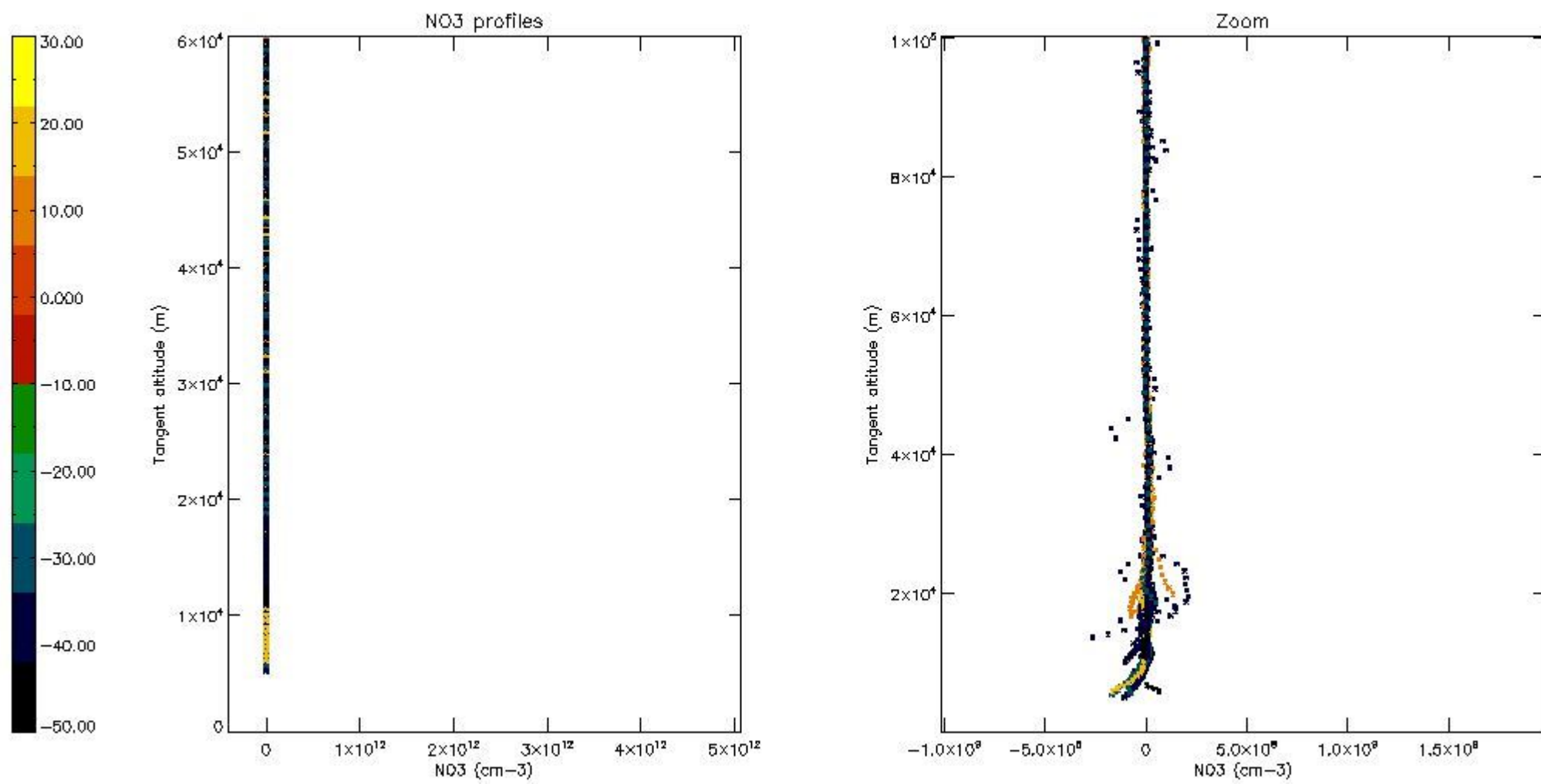
The colorbar represents the latitude.



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

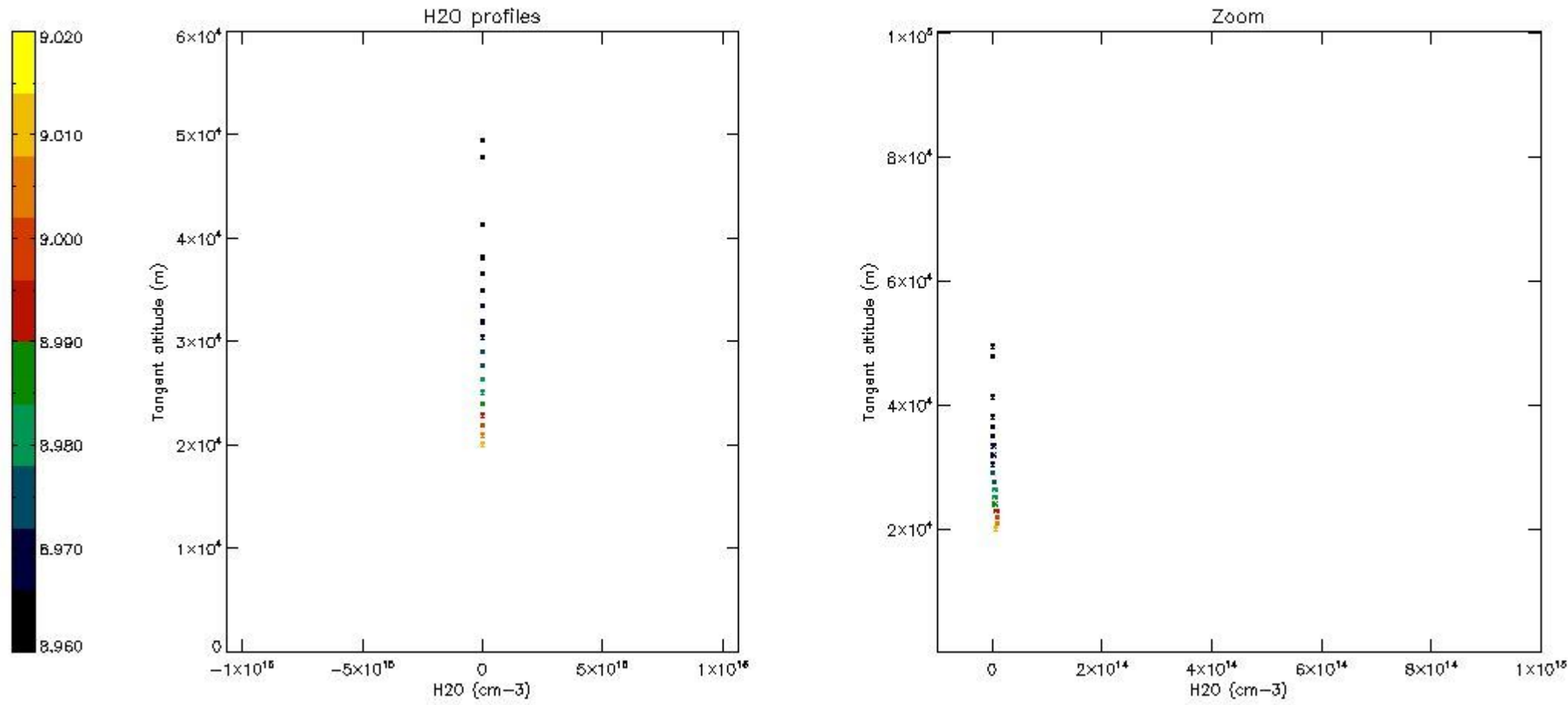
The colorbar represents the latitude.





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

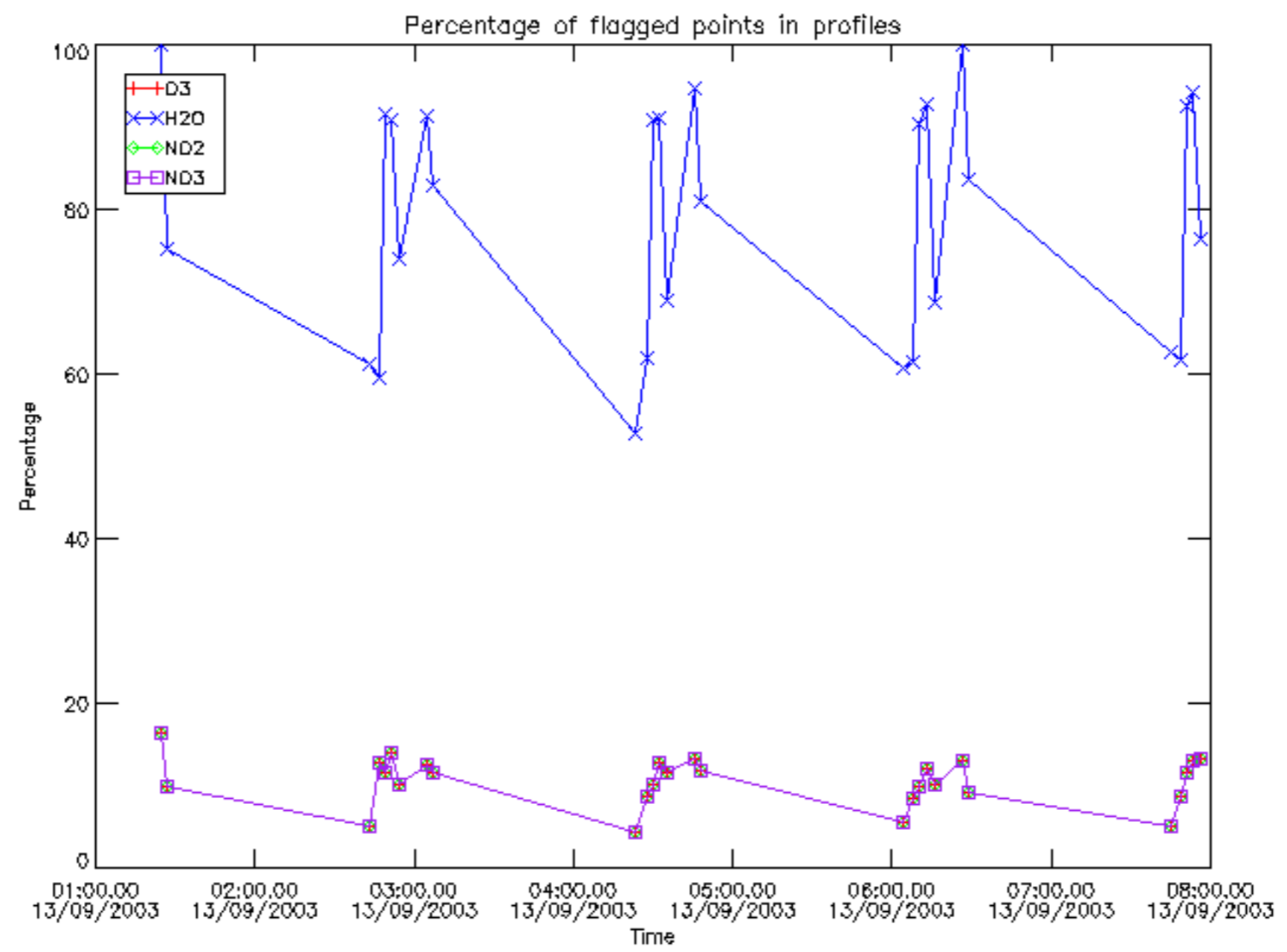
The colorbar represents the latitude.



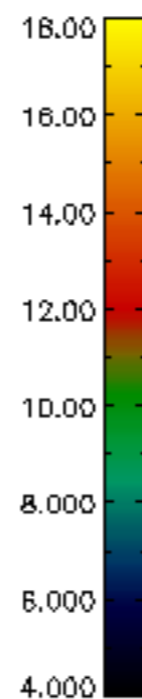
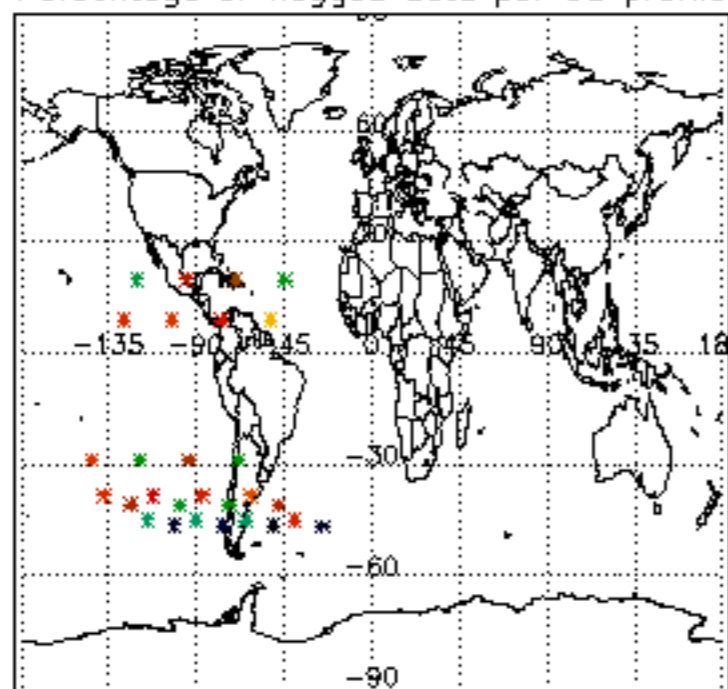
## 6. Auxiliary Data Files used for the production reported in section 2

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

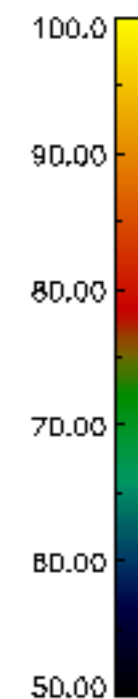
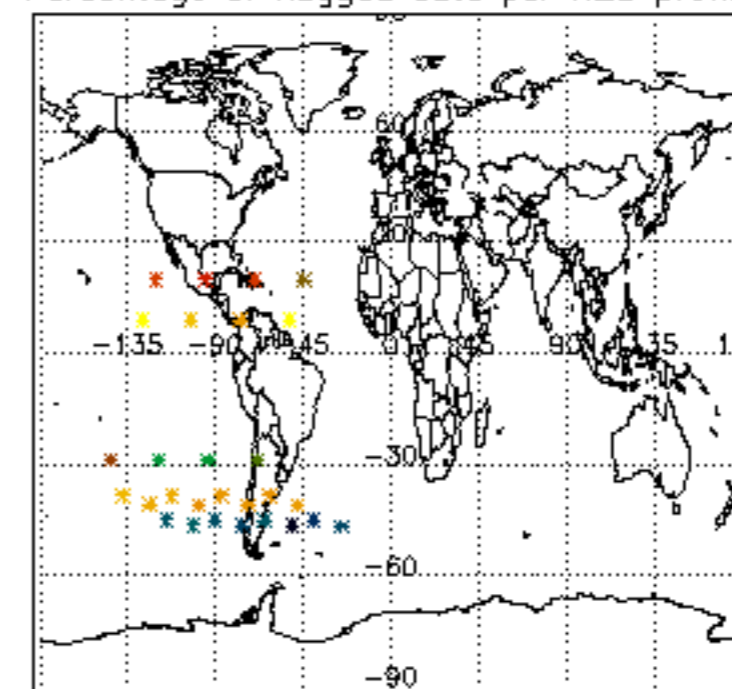
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-SEP-2003 01:24:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-SEP-2003 01:24:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-SEP-2003 01:24:33



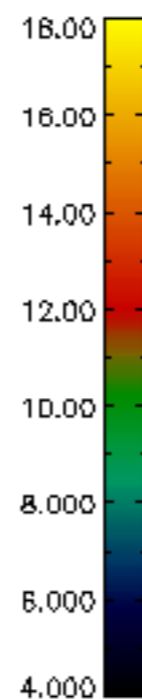
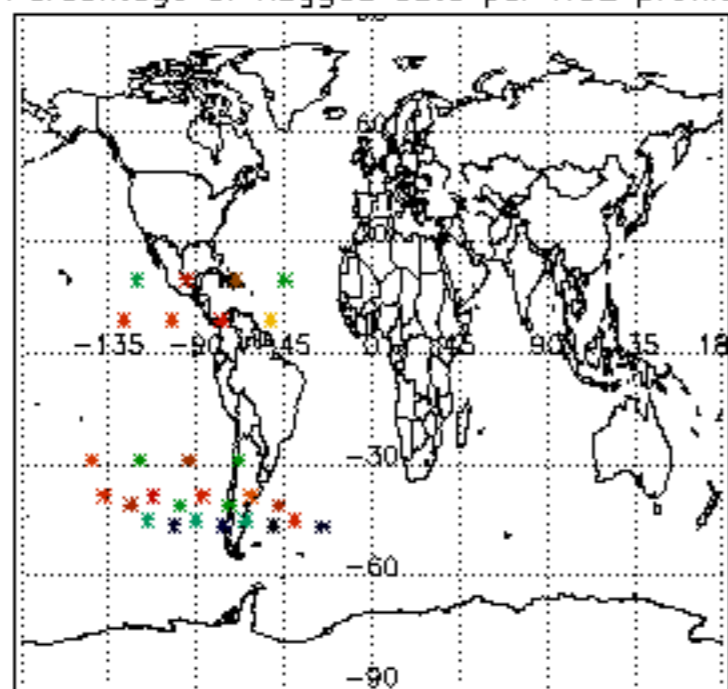
Percentage of flagged data per D3 profile



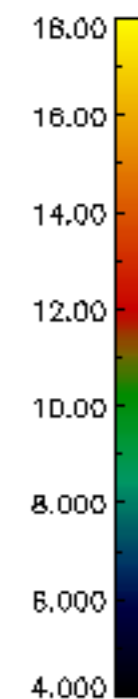
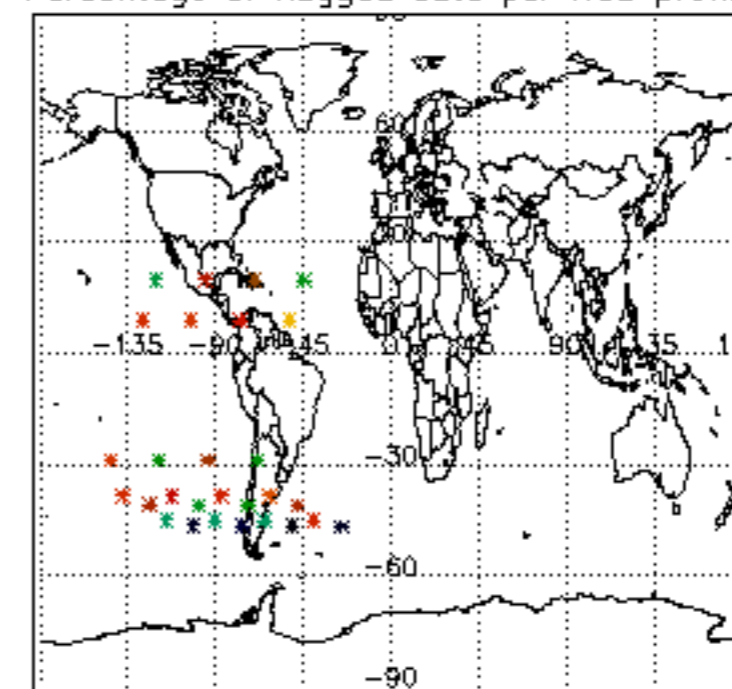
Percentage of flagged data per H2O profile

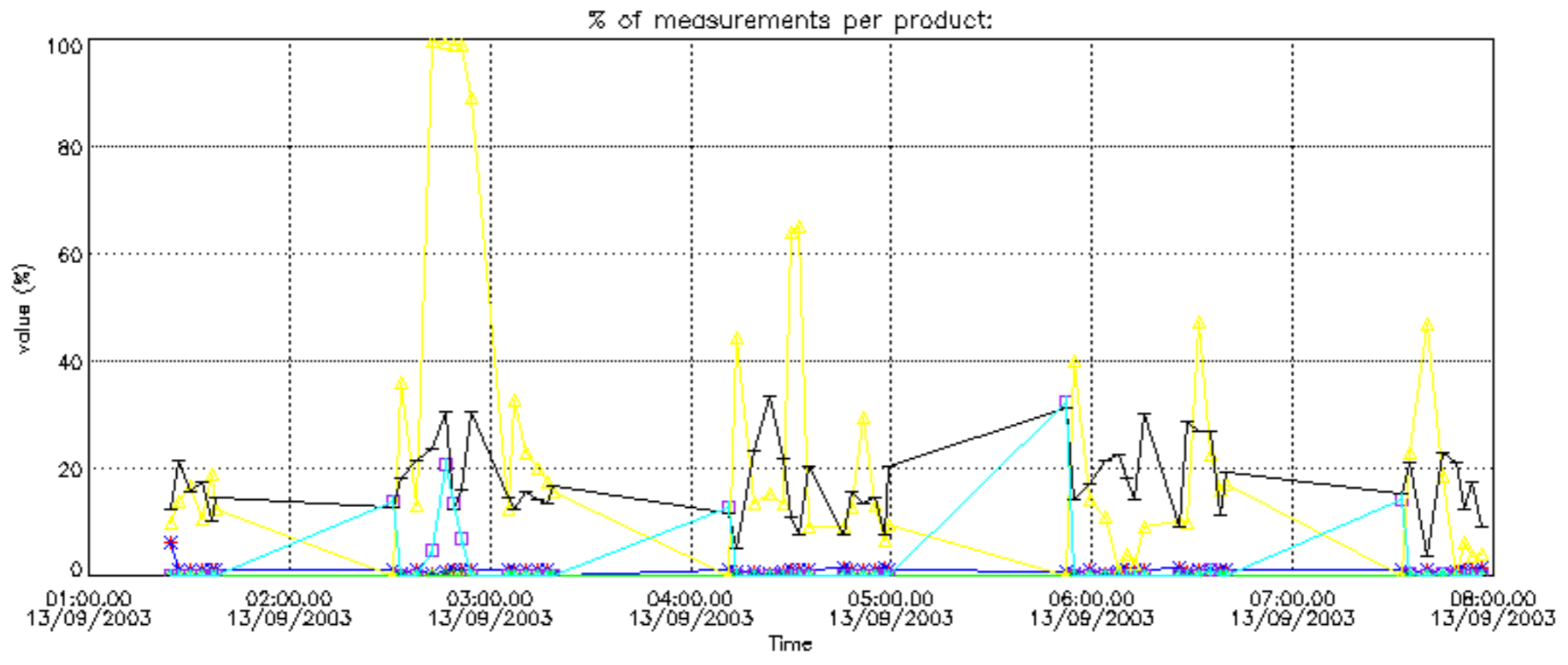


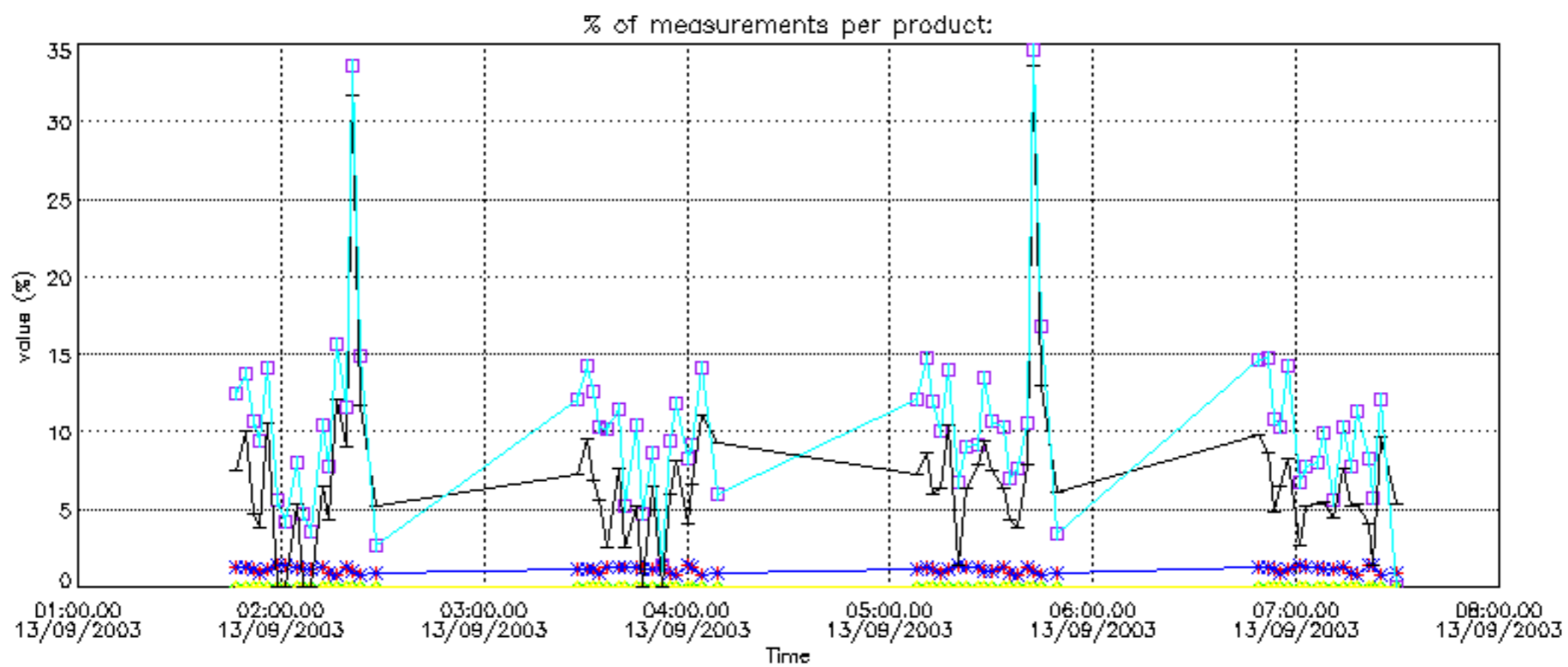
Percentage of flagged data per NO2 profile



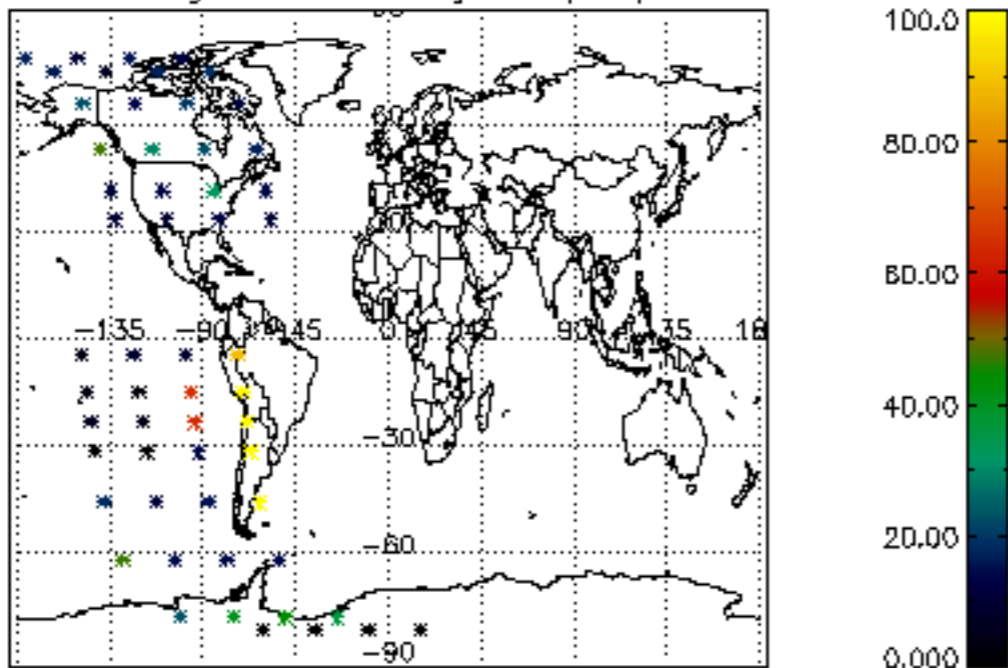
Percentage of flagged data per NO3 profile



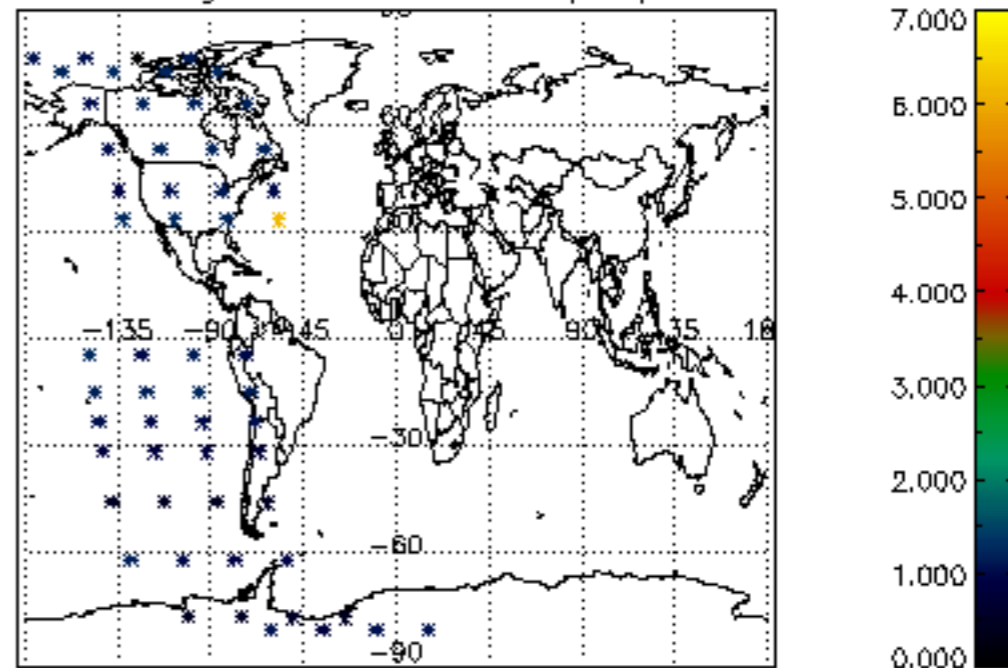




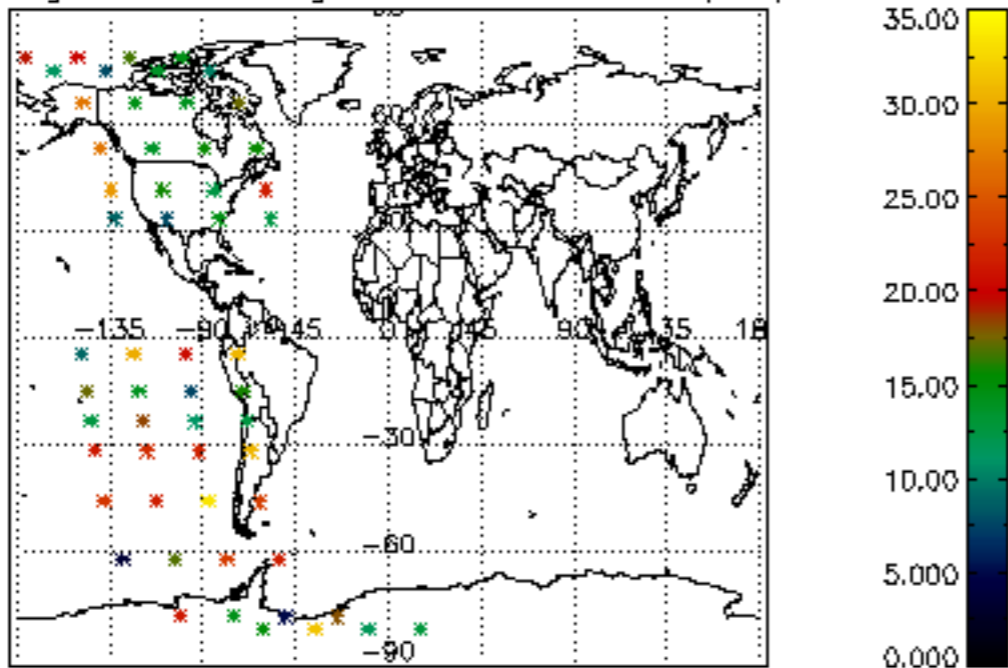
Percentage of cosmic ray hits per profile



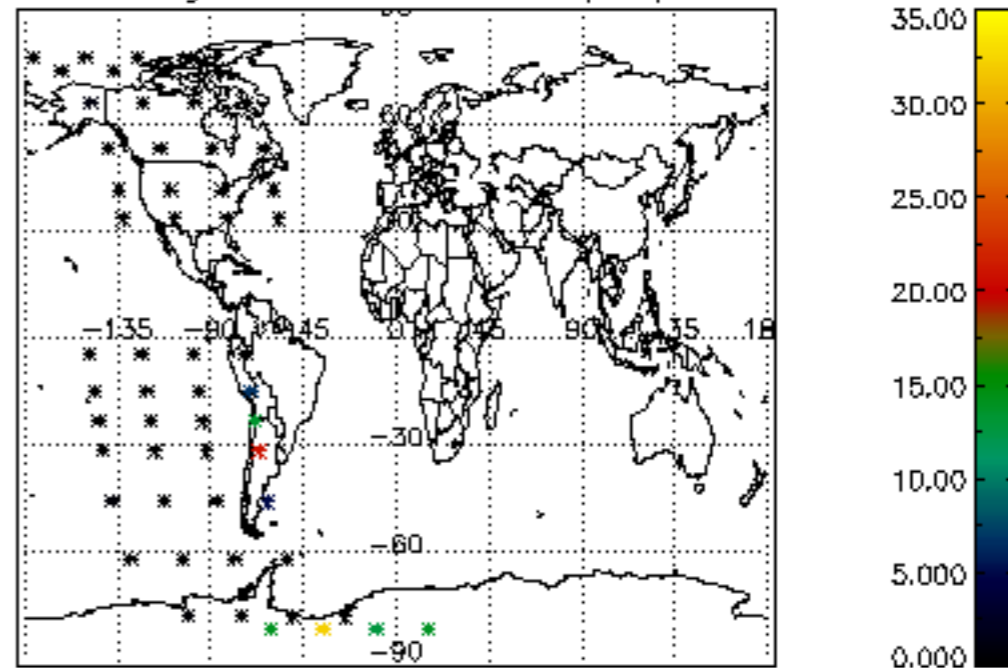
Percentage of datation errors per profile



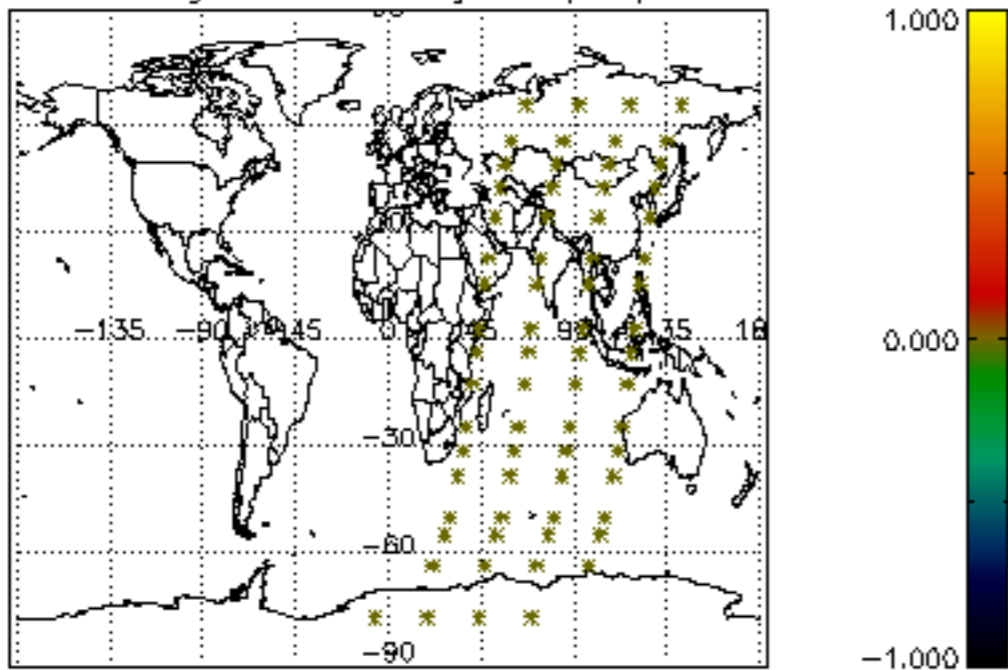
Percentage of star falling outside central band per profile



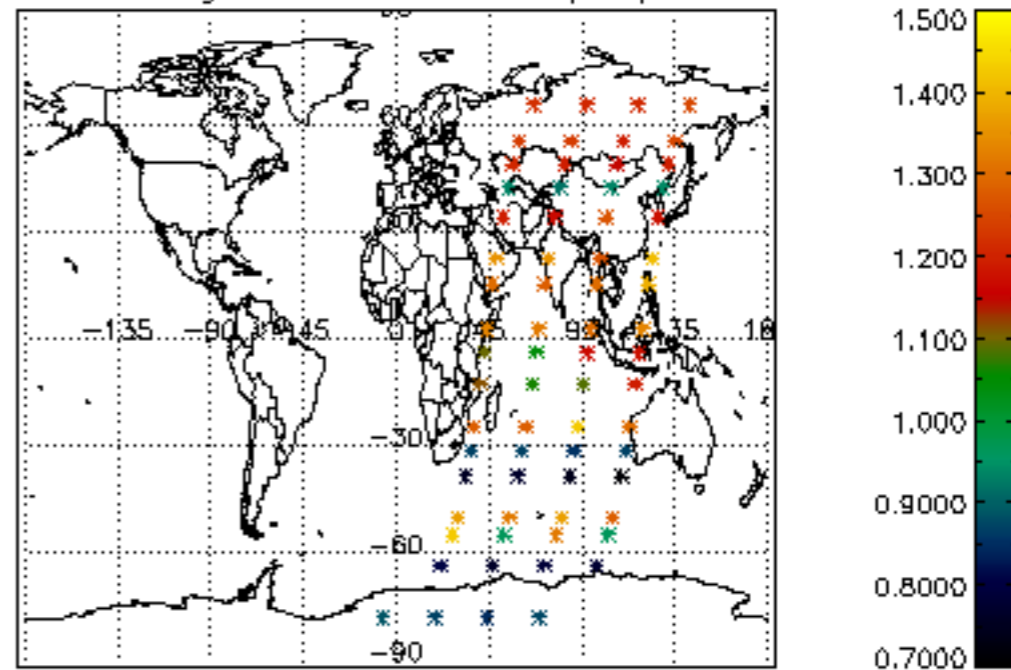
Percentage of saturation errors per profile



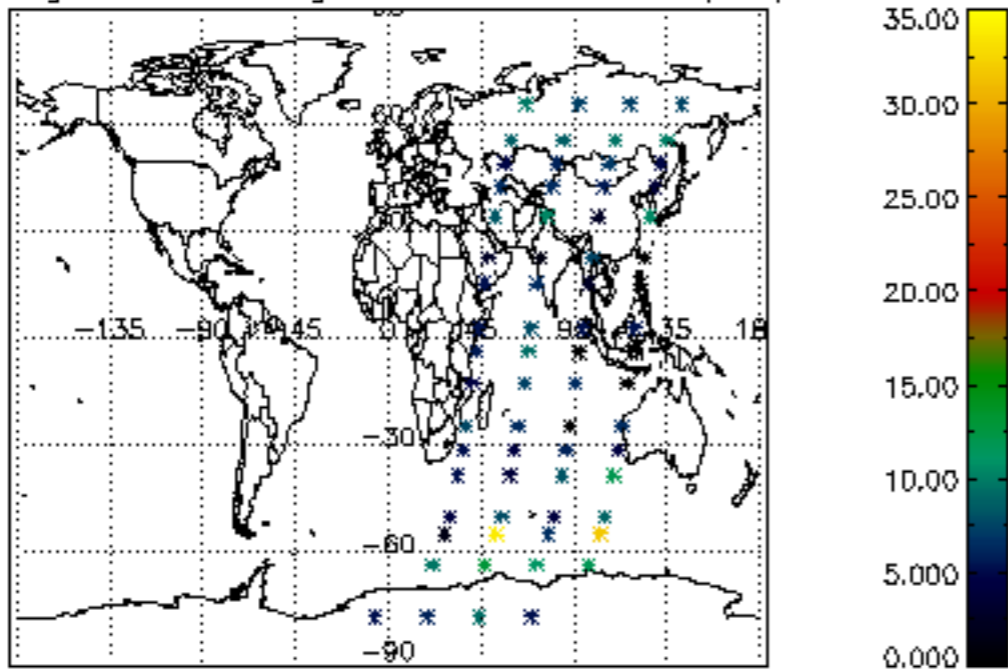
Percentage of cosmic ray hits per profile



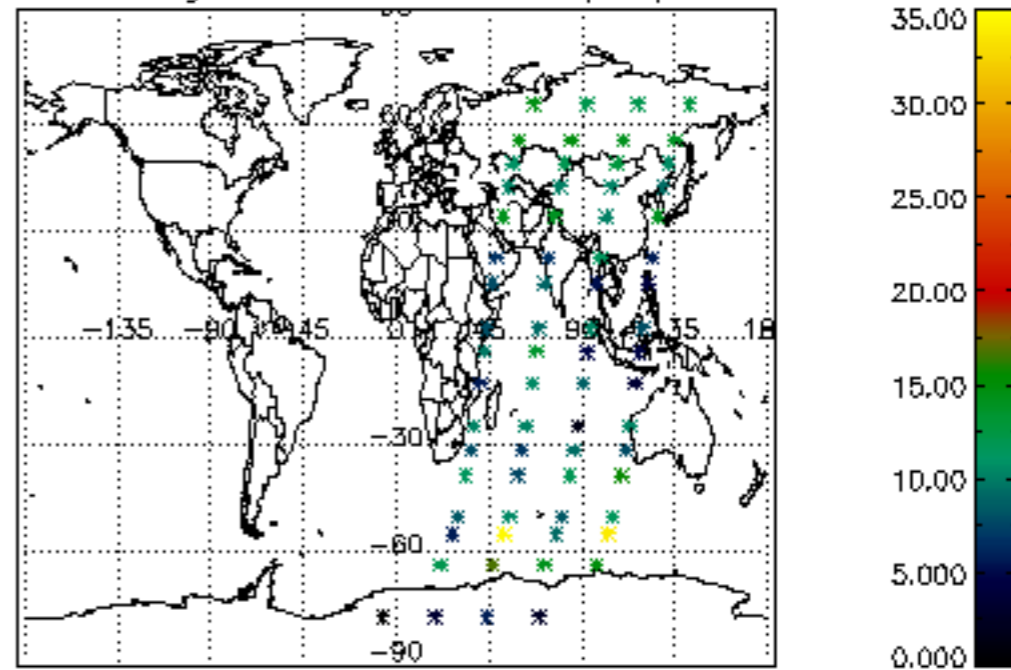
Percentage of datation errors per profile



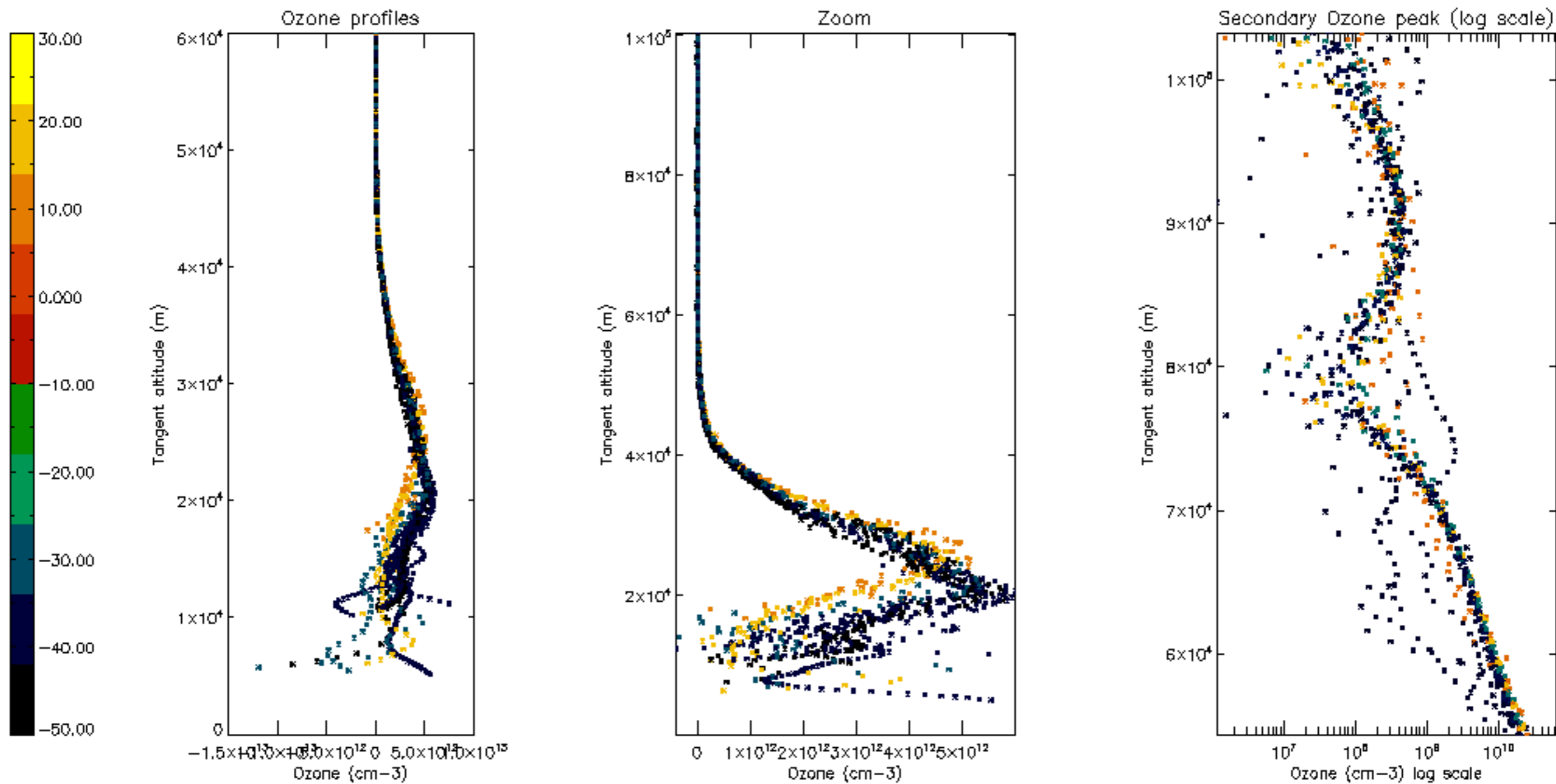
Percentage of star falling outside central band per profile

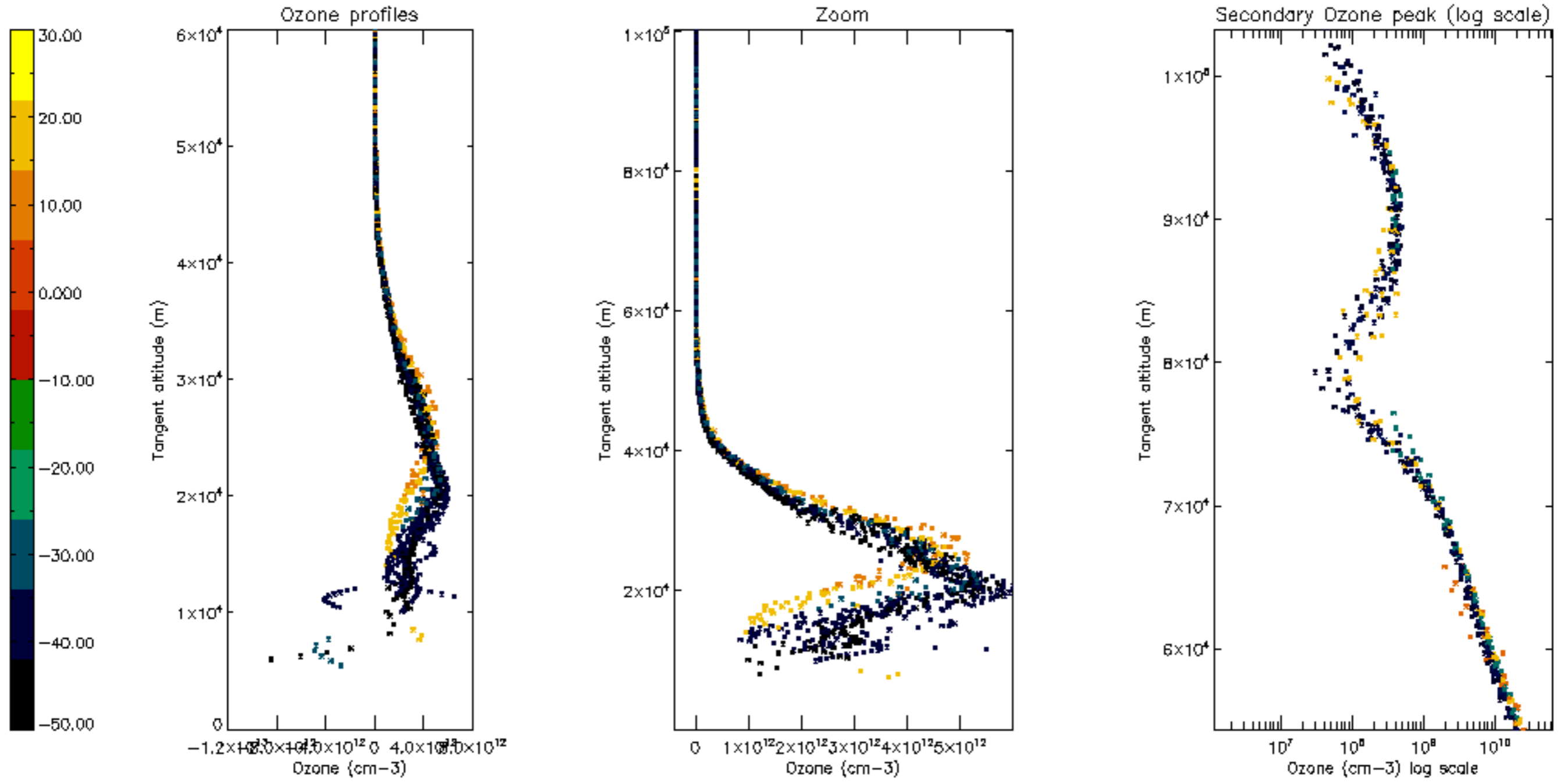


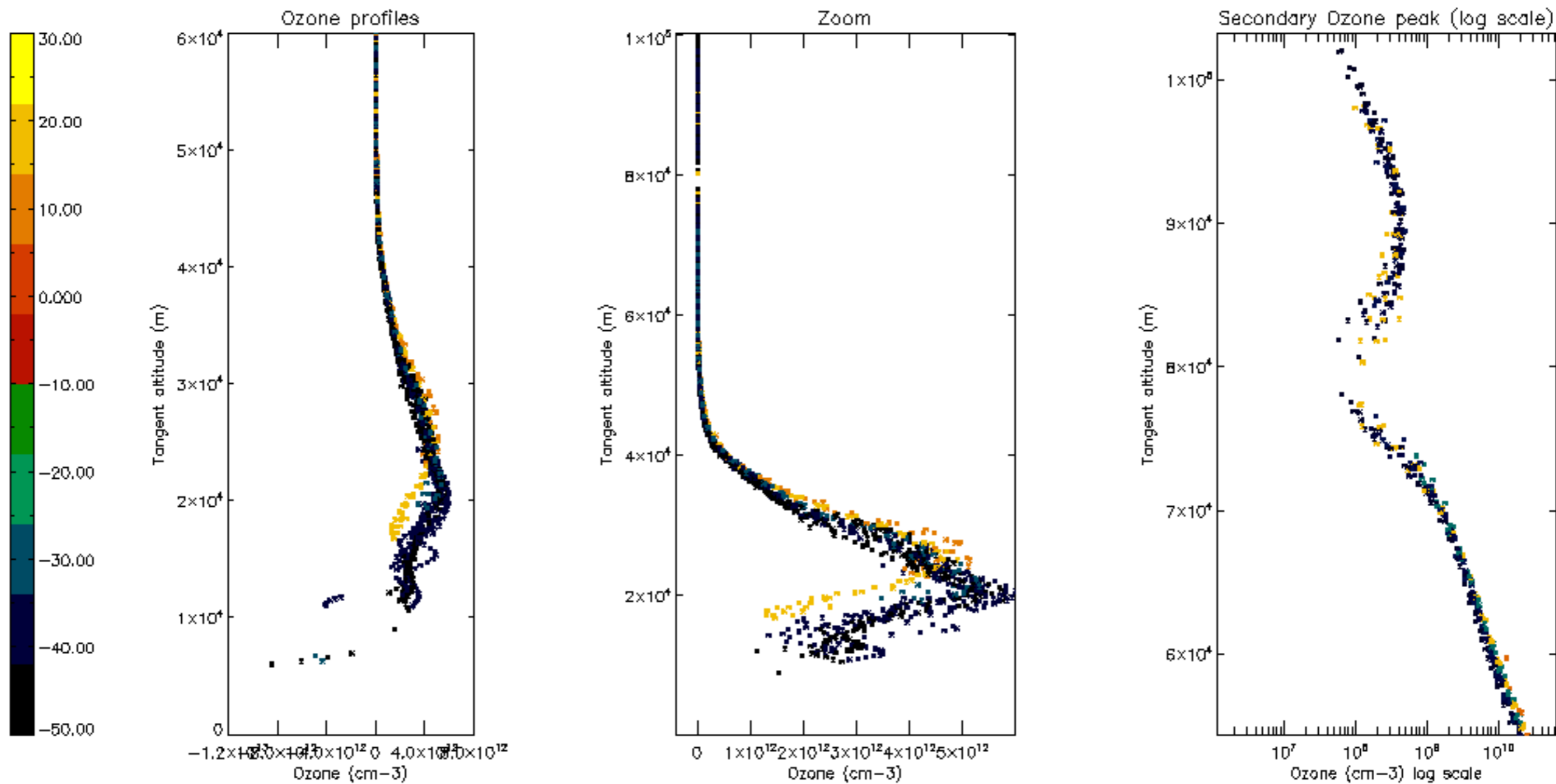
Percentage of saturation errors per profile

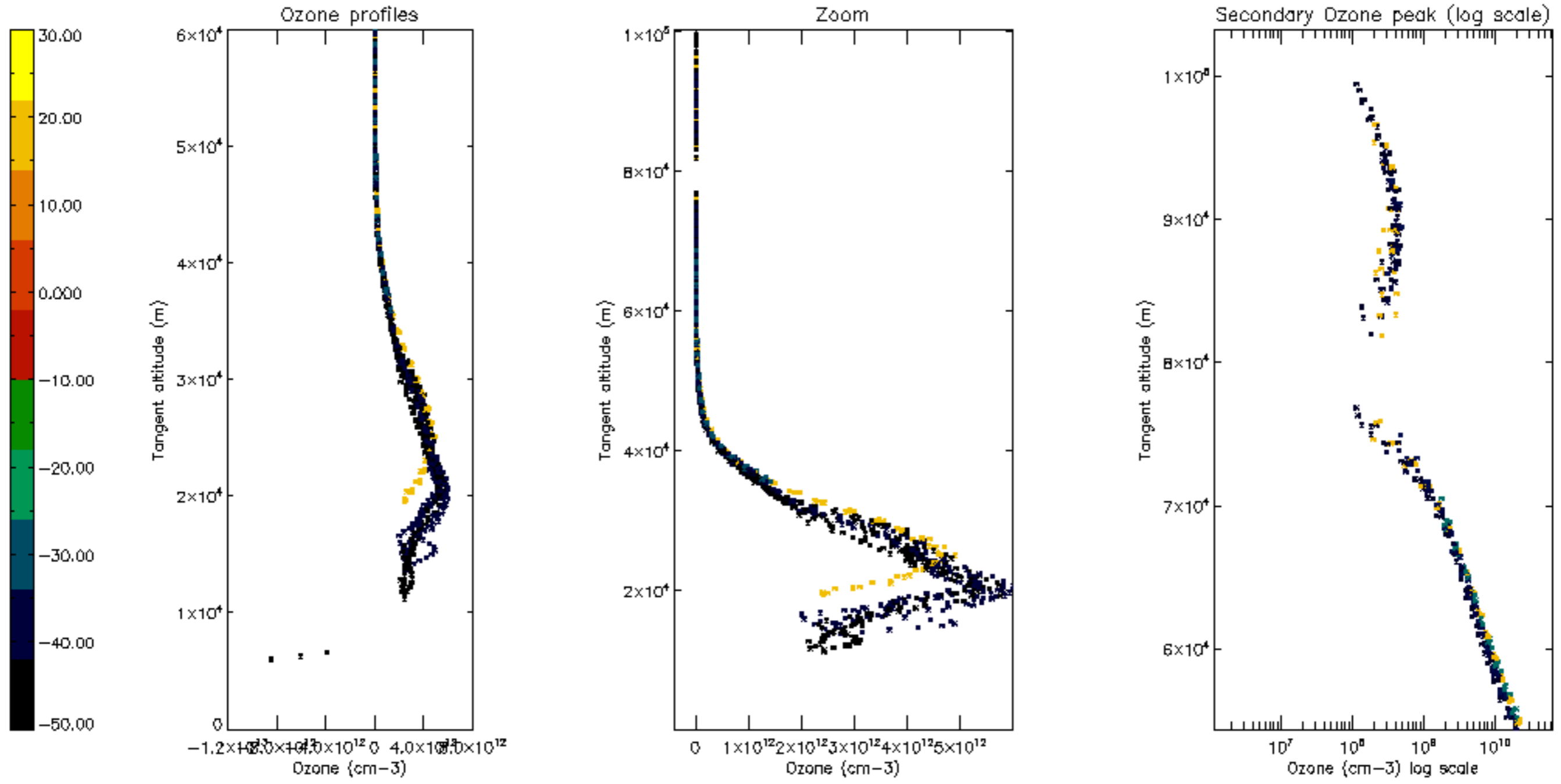


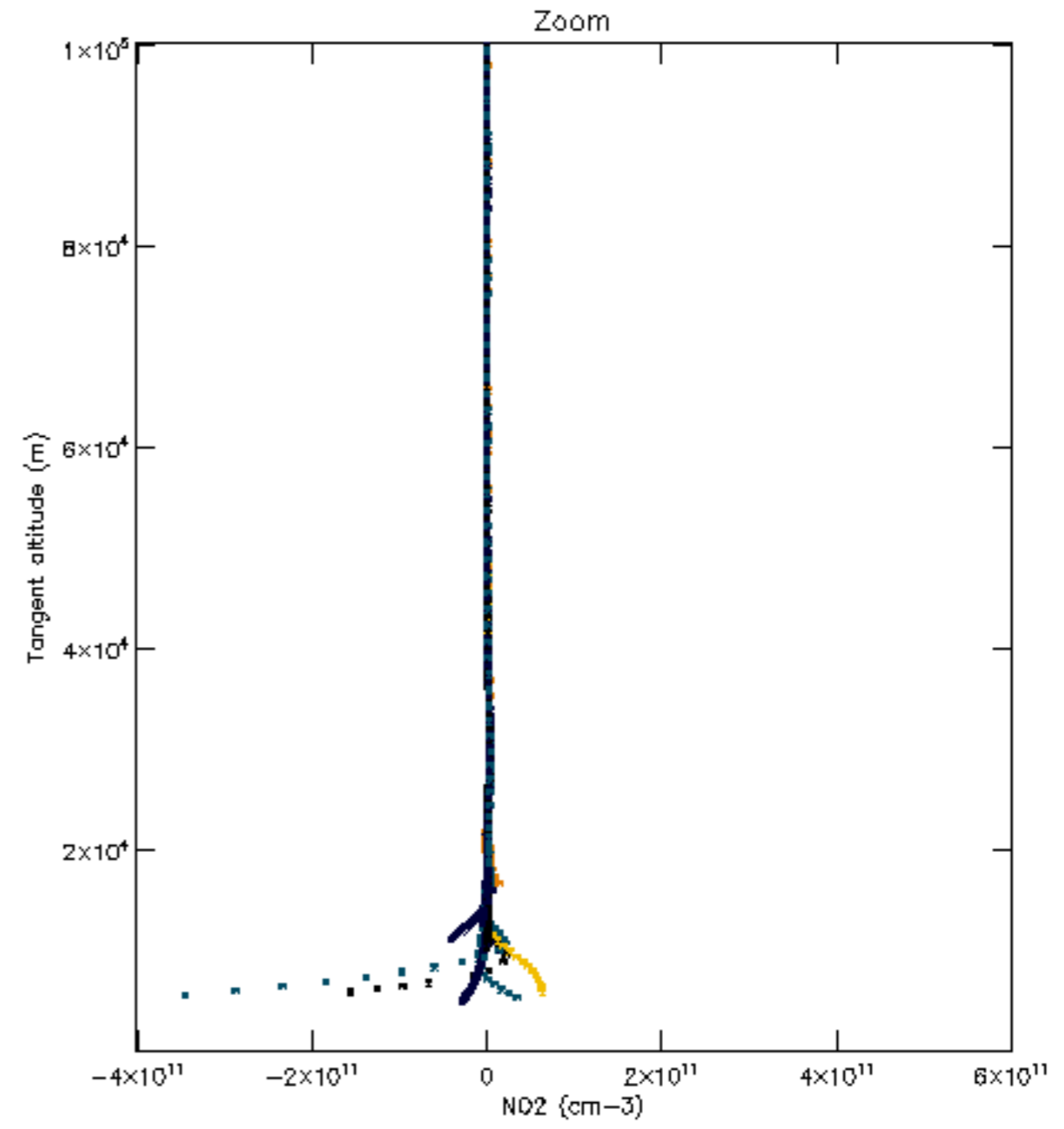
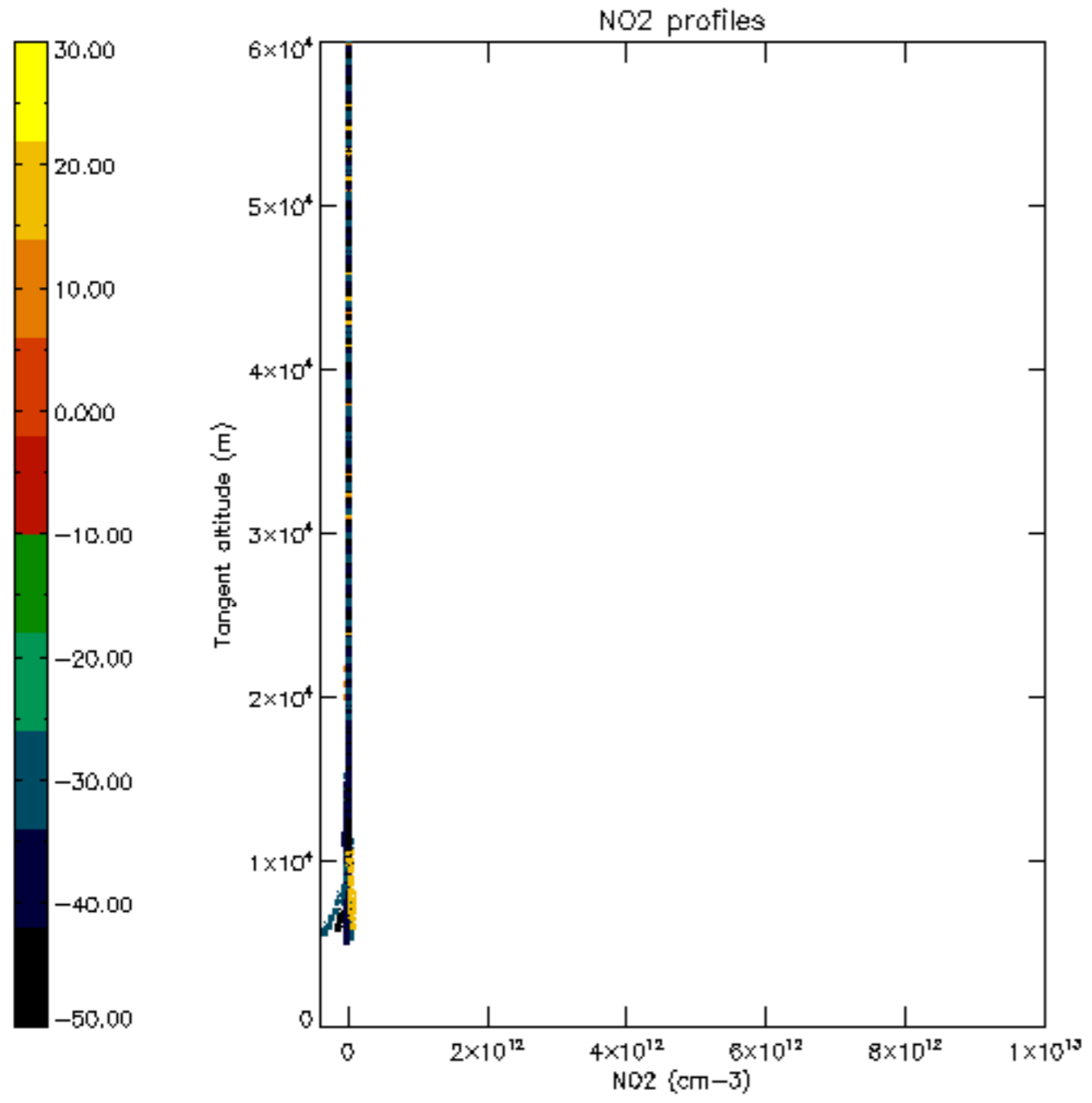


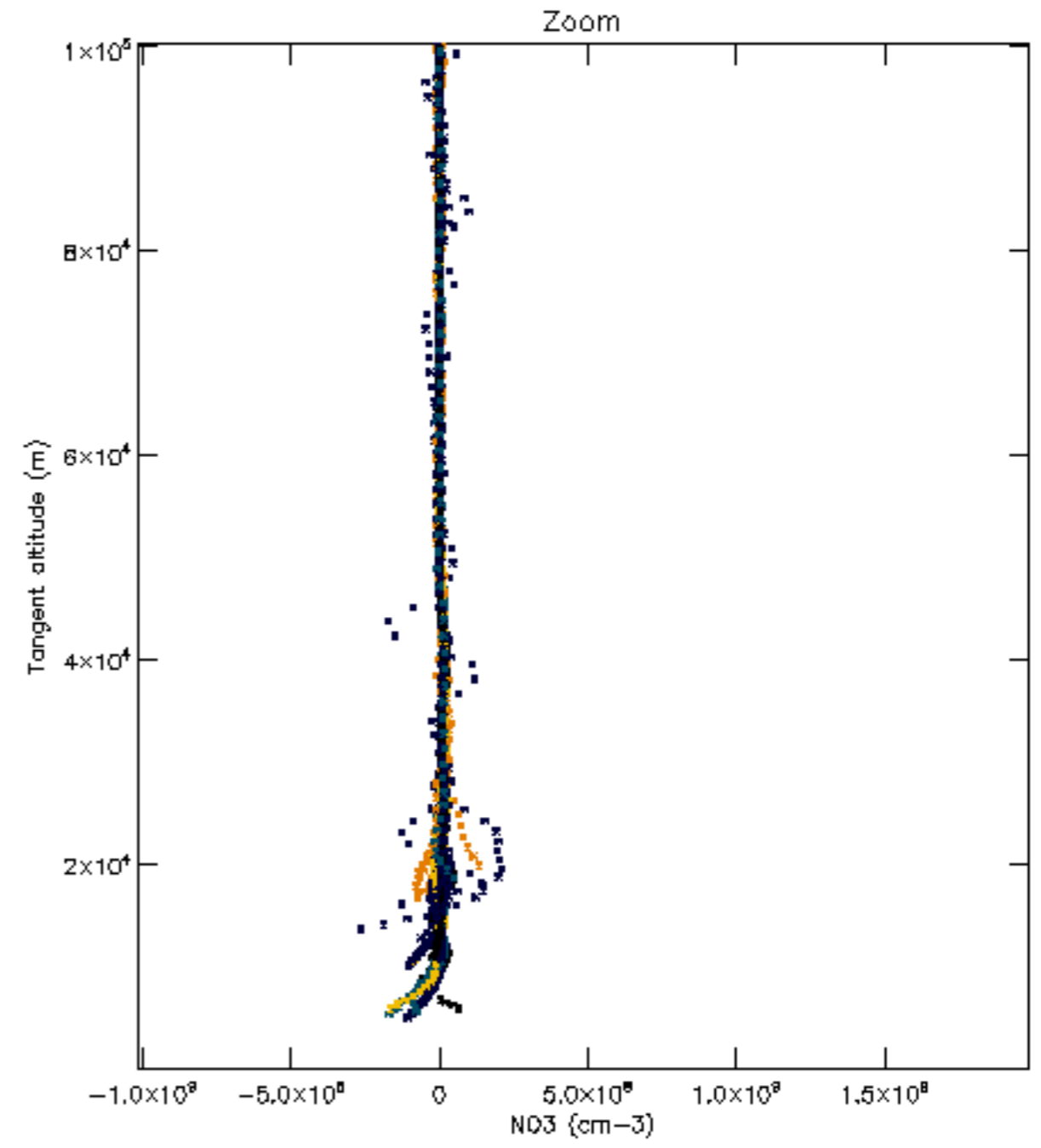
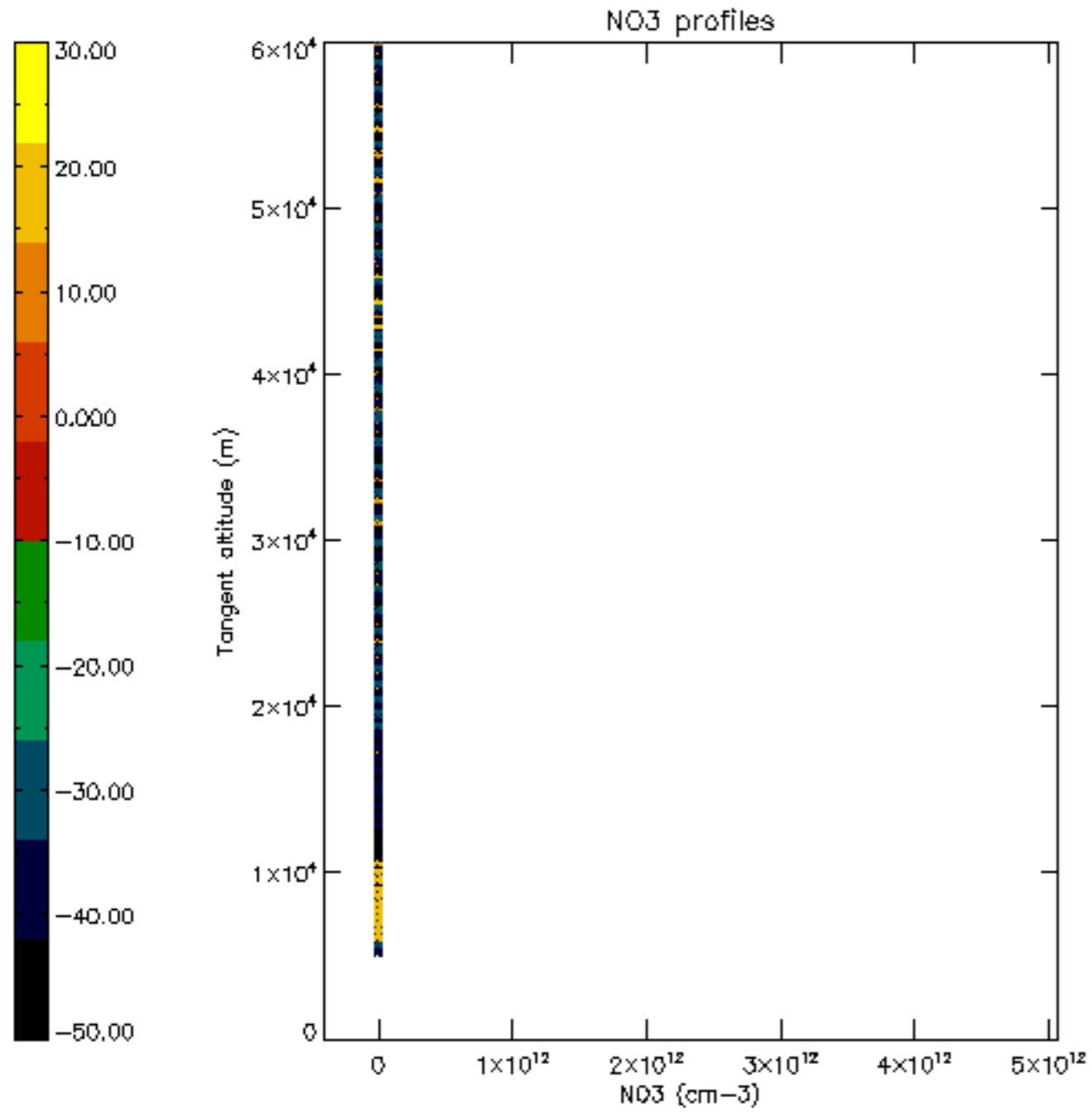


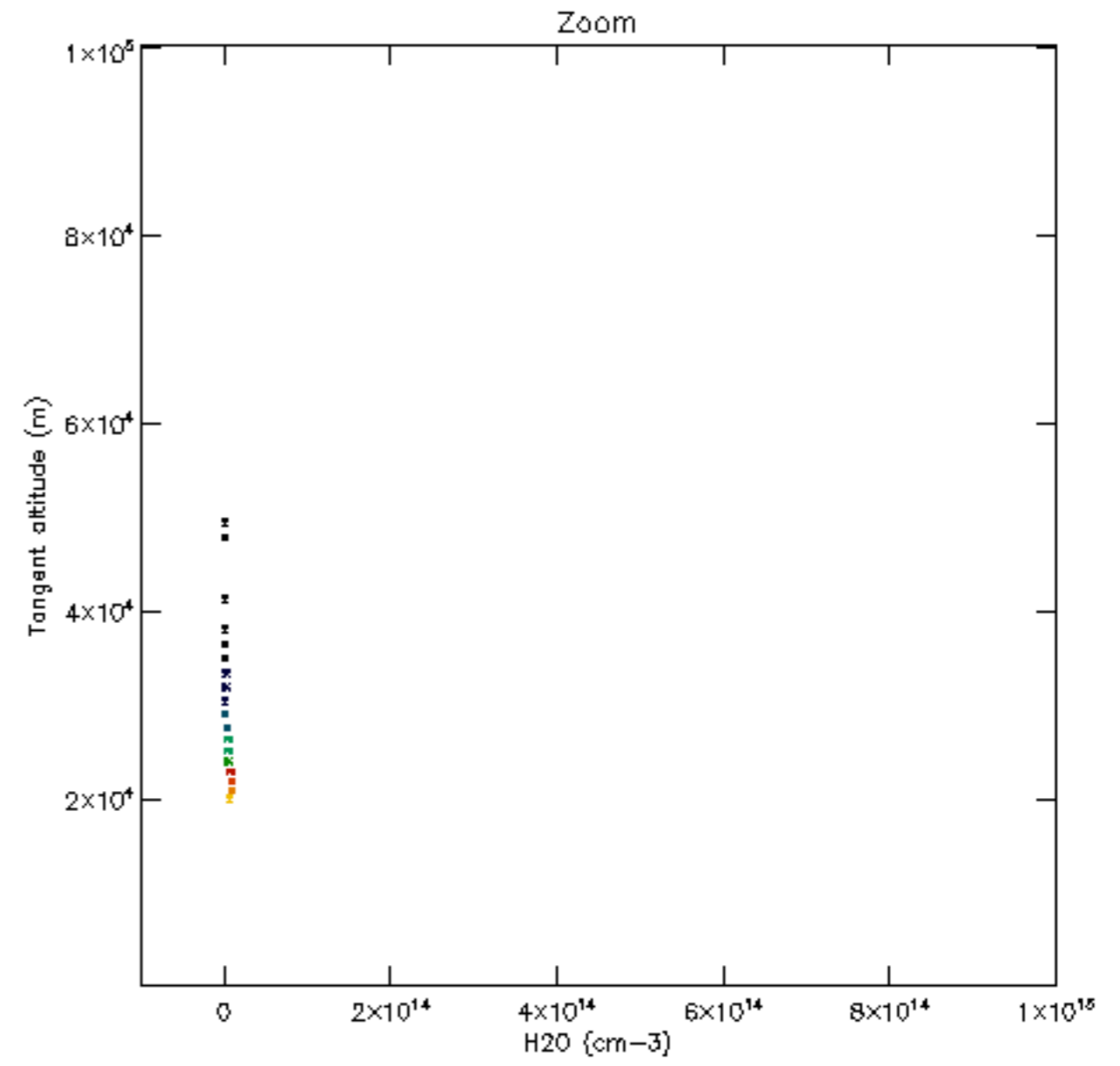
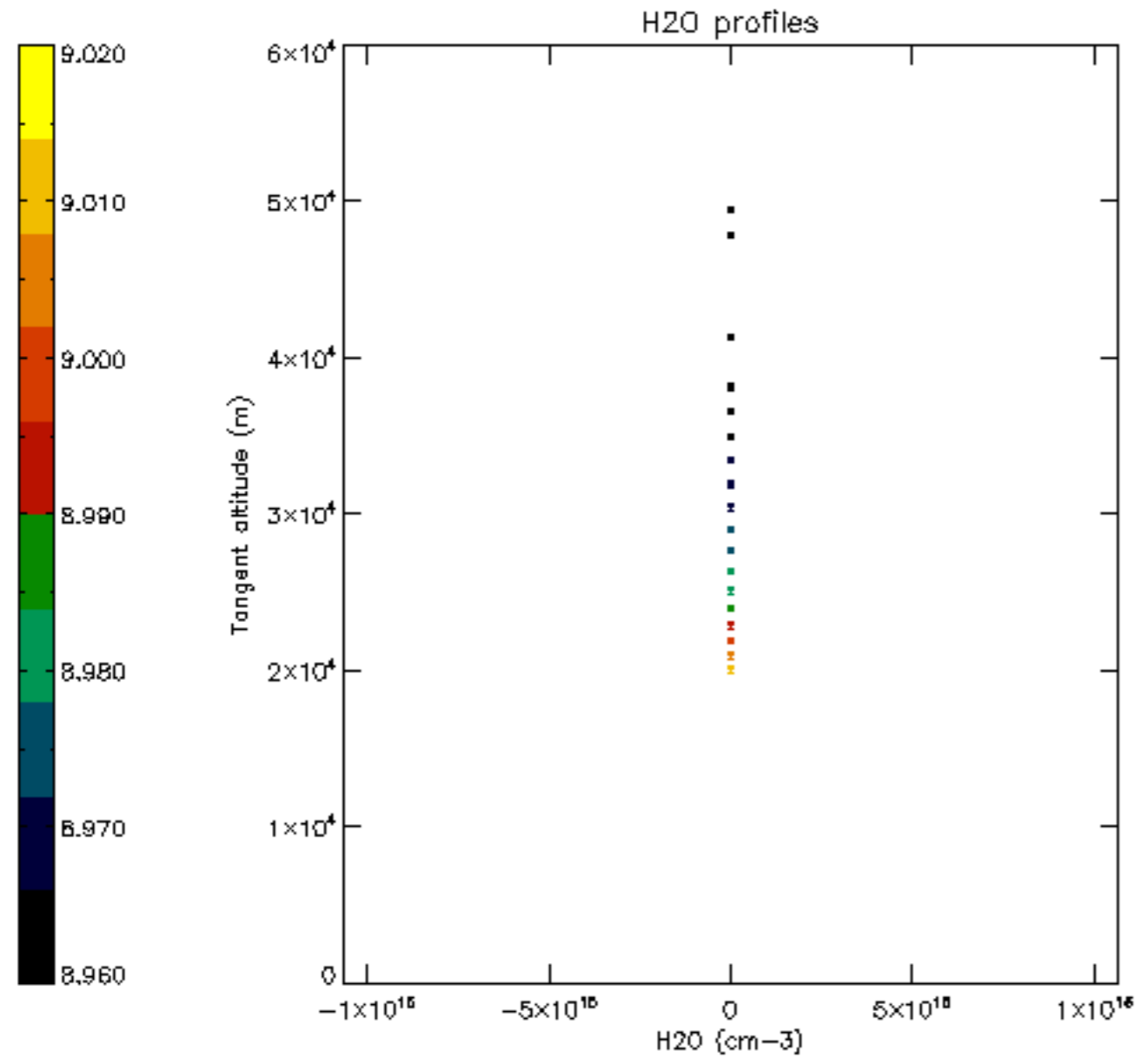


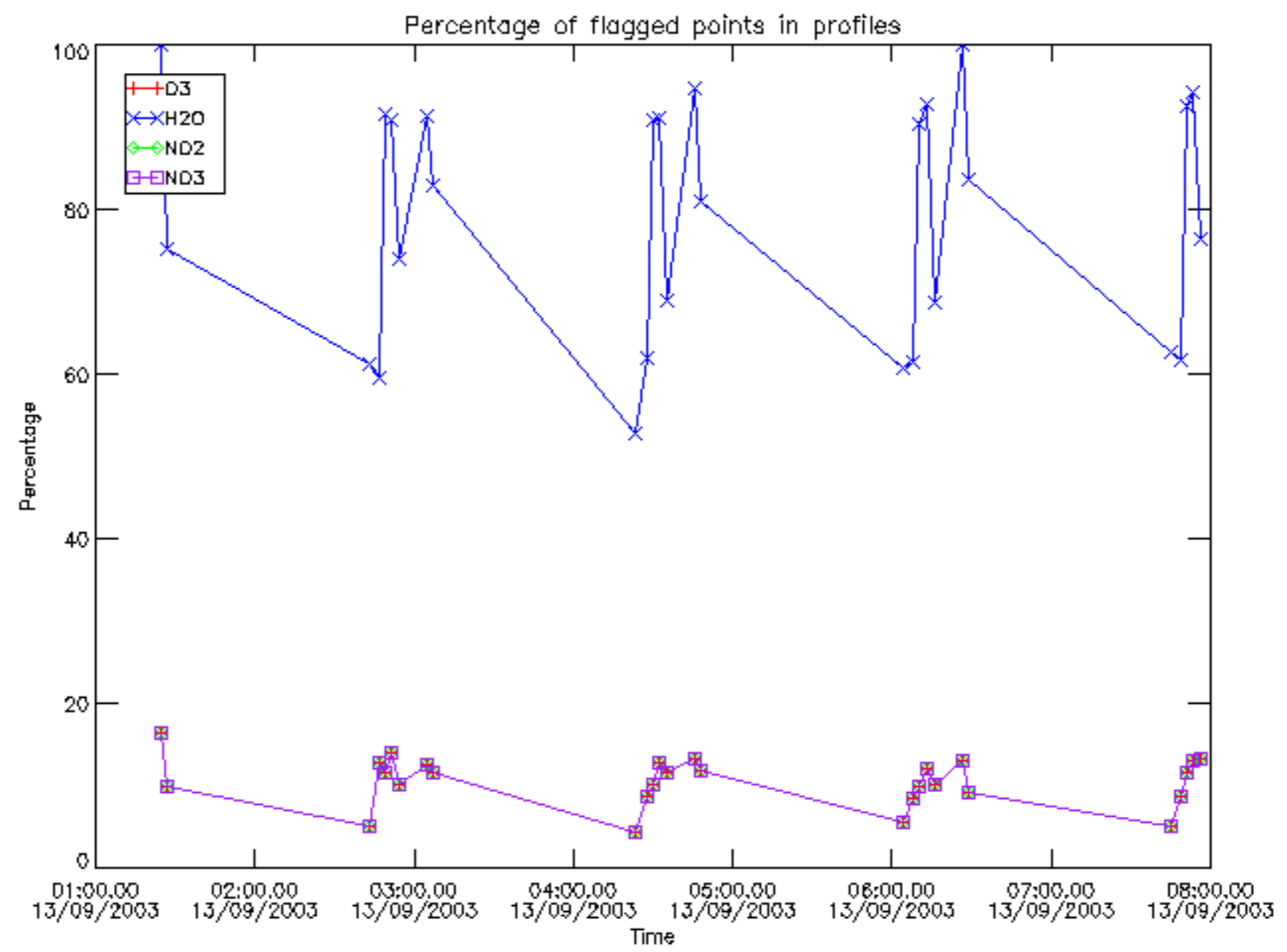






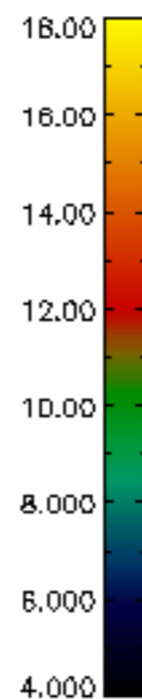
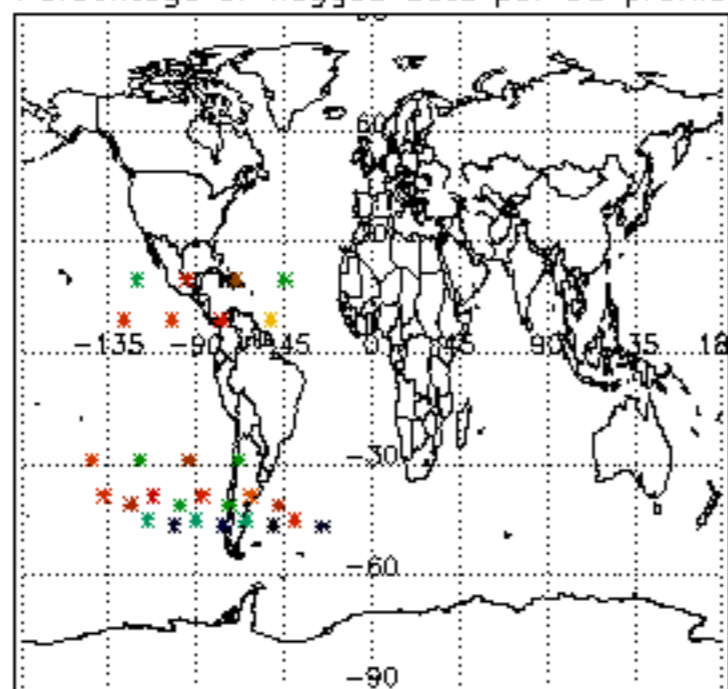




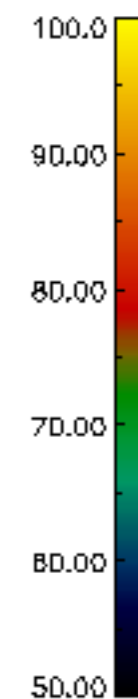
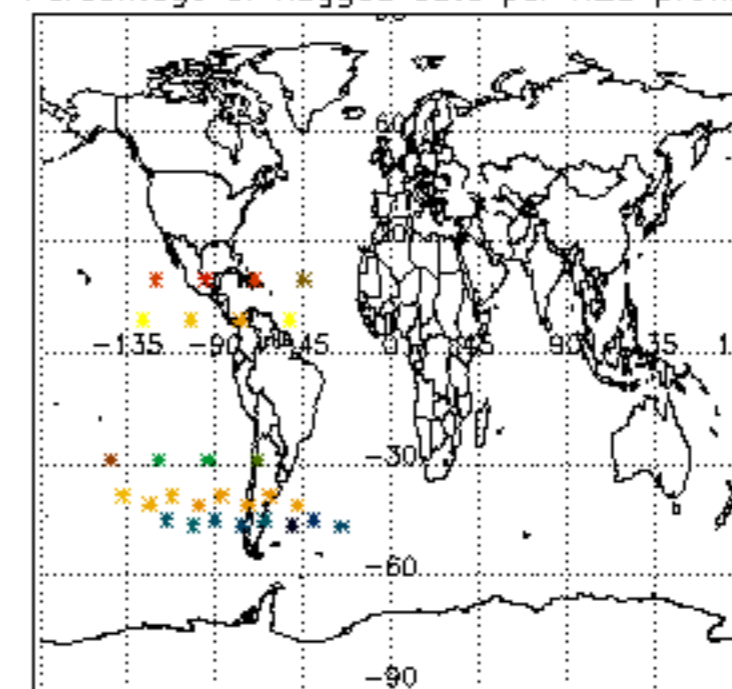




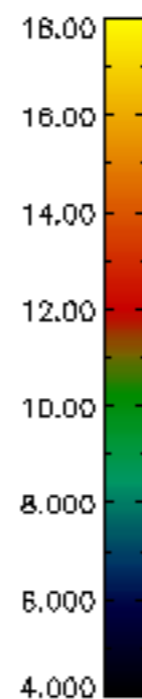
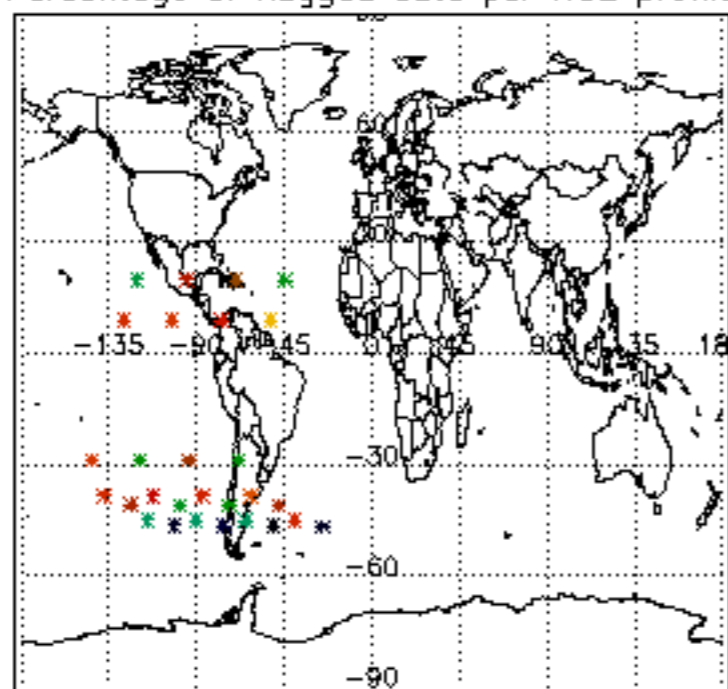
Percentage of flagged data per D3 profile



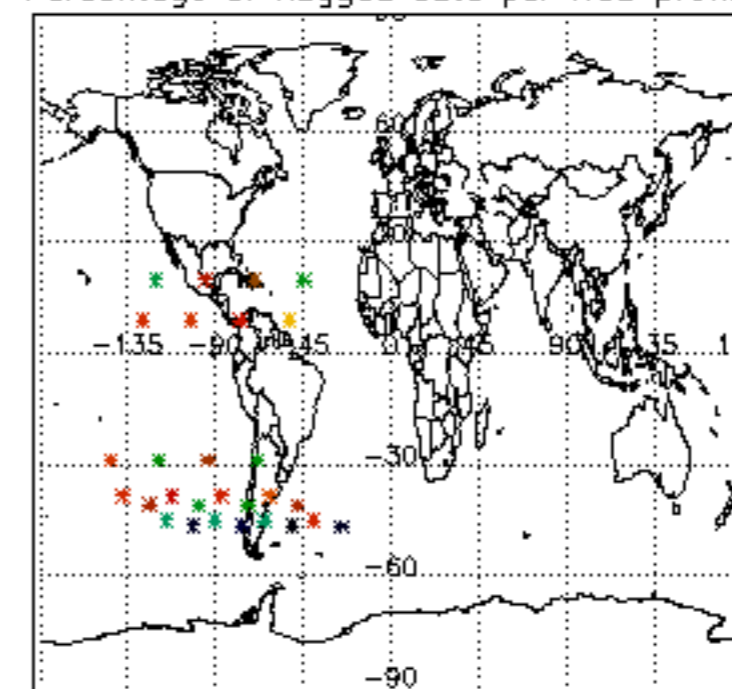
Percentage of flagged data per H2O profile

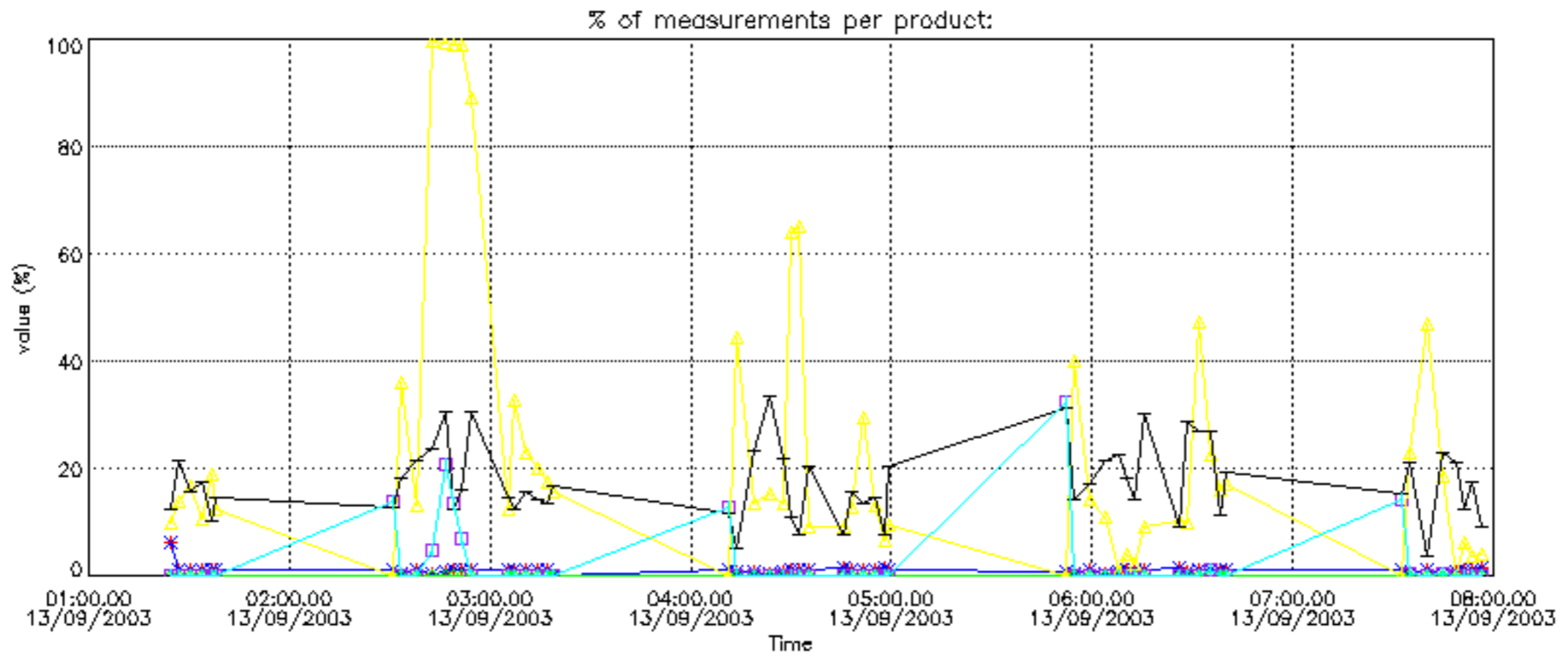


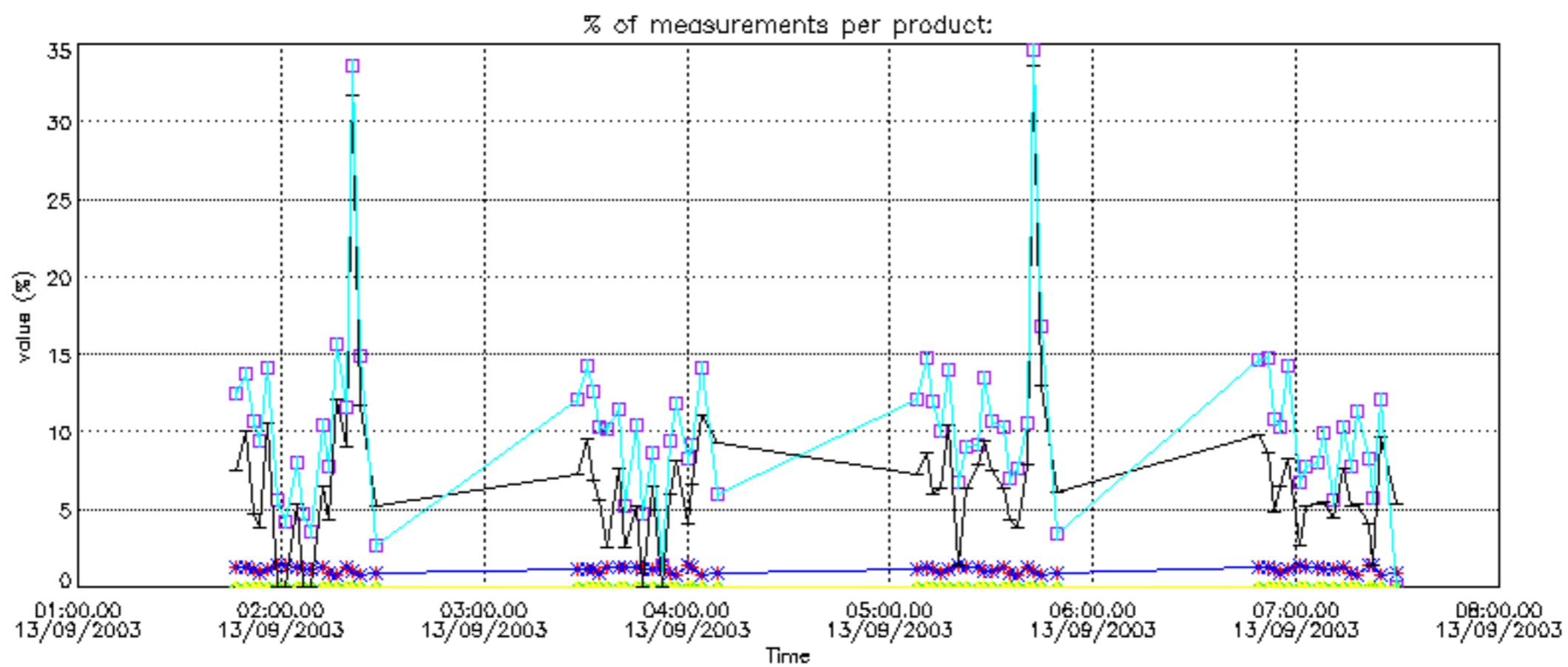
Percentage of flagged data per NO2 profile



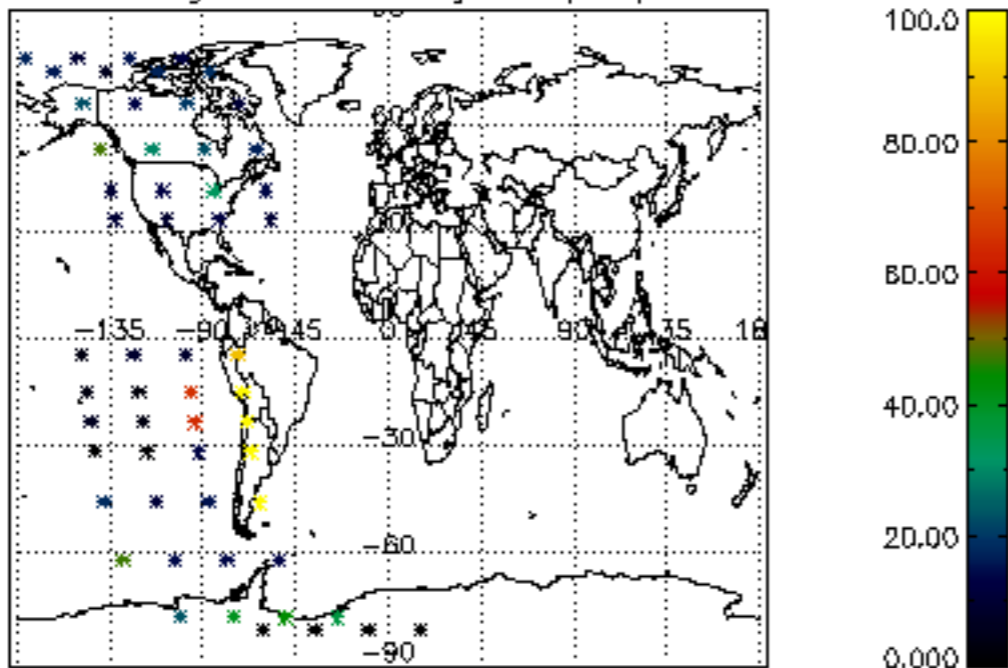
Percentage of flagged data per NO3 profile



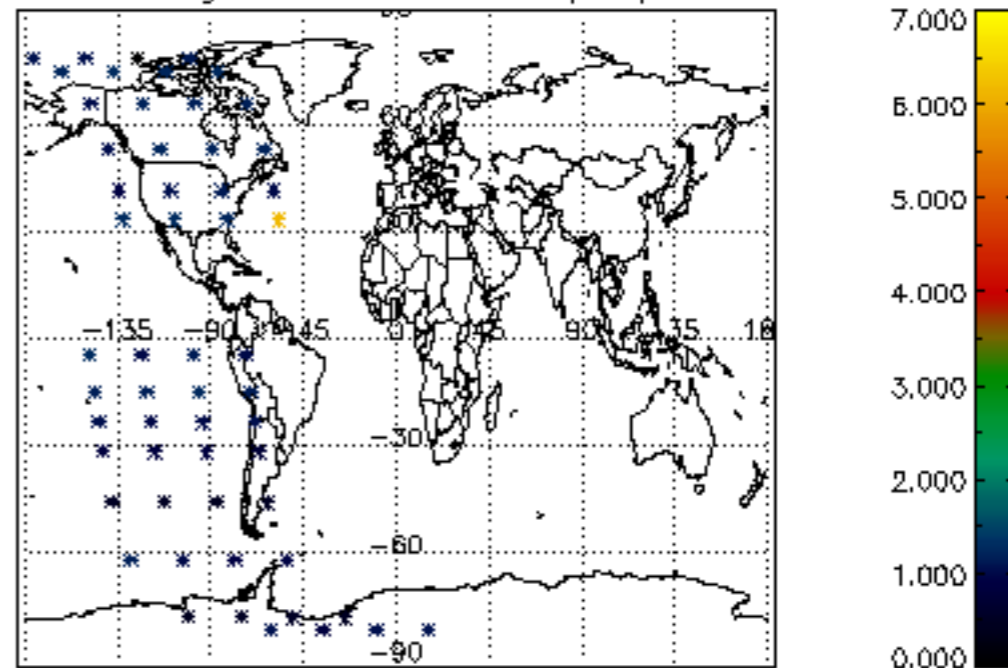




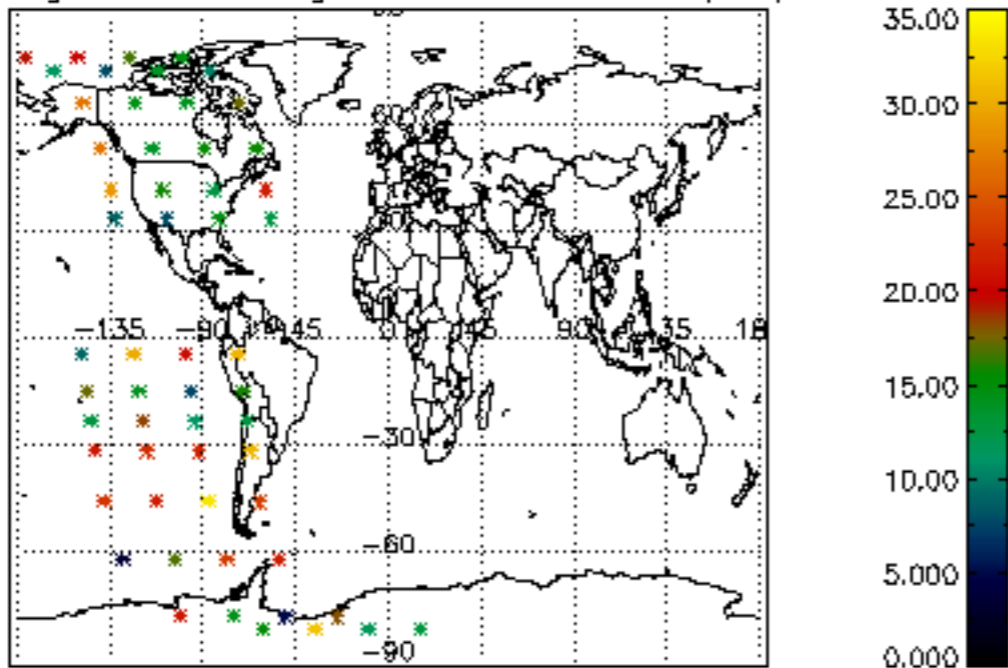
Percentage of cosmic ray hits per profile



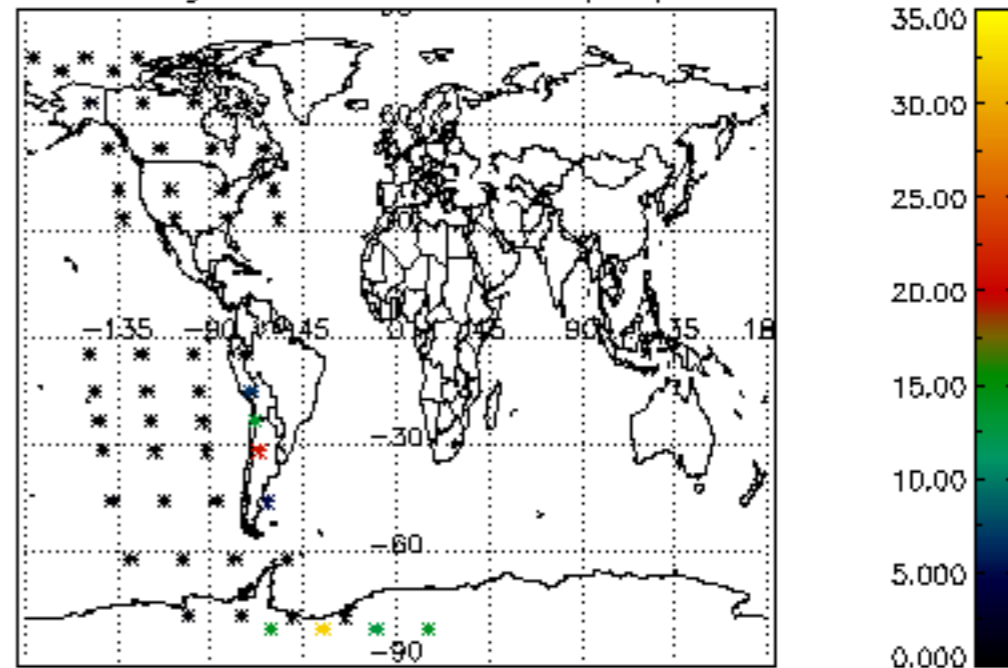
Percentage of datation errors per profile



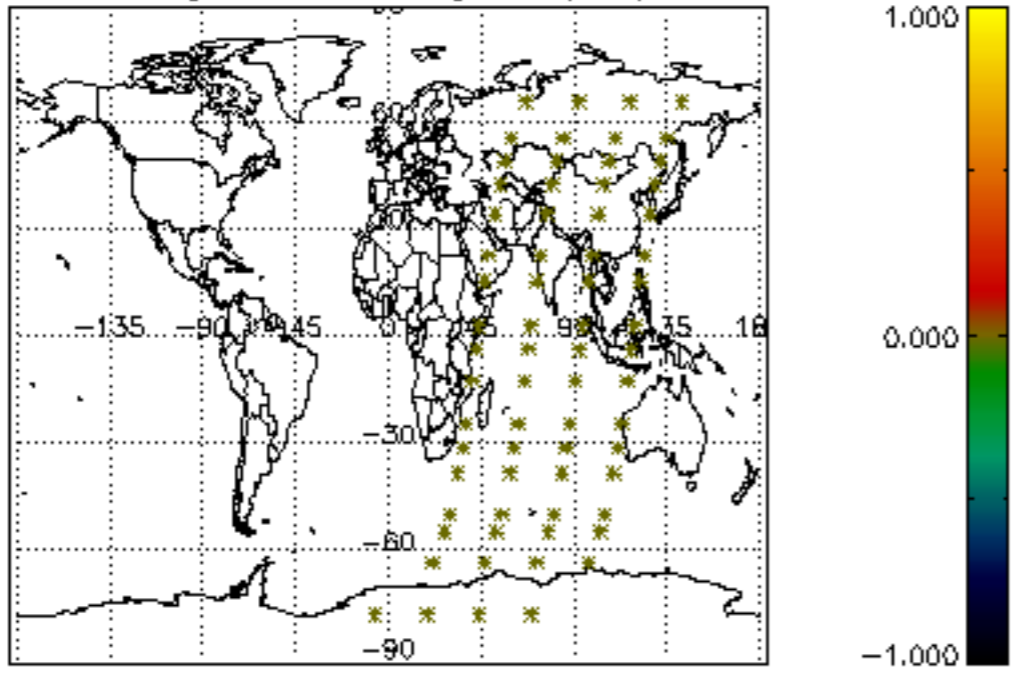
Percentage of star falling outside central band per profile



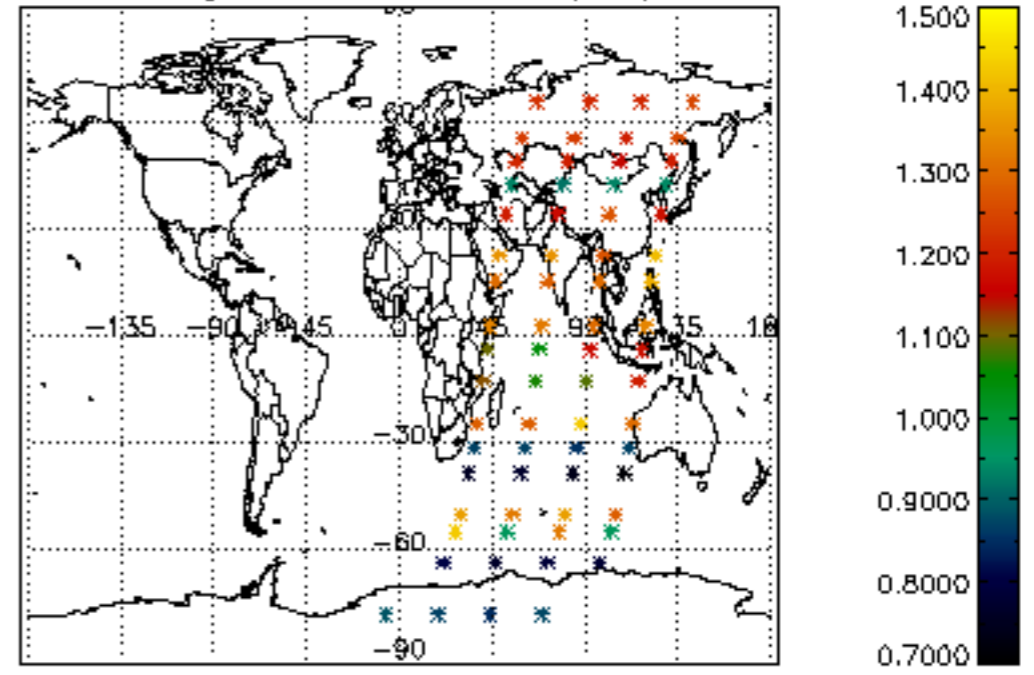
Percentage of saturation errors per profile



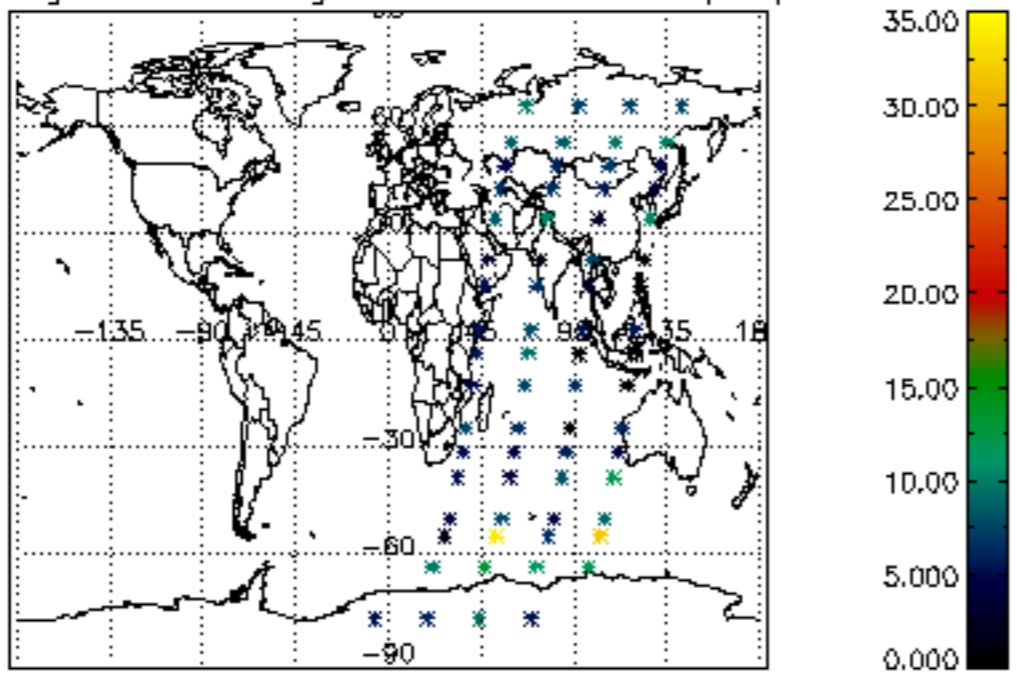
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

