

# 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	26APR2013 16:12:25
Data source version	GOMOS/6.01
Start time of products	11-01-2010 (11JAN2010 00:00:00)
Stop time of products	12-01-2010 (12JAN2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	107
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__2PRFIN20100111_165924_000000442085_00499_41134_9596.N1	11-JAN-2010 16:59:24	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41134	No
2	GOM_NL__2PRFIN20100111_170605_000000382085_00499_41134_9597.N1	11-JAN-2010 17:06:05	Dark	38.000	124	The Car	2.7640	30000.	76	41134	No
3	GOM_NL__2PRFIN20100111_170744_000000482085_00499_41134_9598.N1	11-JAN-2010 17:07:44	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	41134	No
4	GOM_NL__2PRFIN20100111_170924_000000442085_00499_41134_9599.N1	11-JAN-2010 17:09:24	Dark	43.500	71	lot Car	2.2460	7700.0	87	41134	No
5	GOM_NL__2PRFIN20100111_171044_000000422085_00499_41134_9600.N1	11-JAN-2010 17:10:44	Dark	42.000	41	Eps Car	1.8600	4100.0	84	41134	No
6	GOM_NL__2PRFIN20100111_171613_000000442085_00499_41134_9601.N1	11-JAN-2010 17:16:13	Dark	44.000	70	Zet Pup	2.2460	39000.	88	41134	No
7	GOM_NL__2PRFIN20100111_171758_000000432085_00499_41134_9602.N1	11-JAN-2010 17:17:58	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	41134	No
8	GOM_NL__2PRFIN20100111_172034_000000442085_00499_41134_9603.N1	11-JAN-2010 17:20:34	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41134	No
9	GOM_NL__2PRFIN20100111_172201_000000412085_00499_41134_9604.N1	11-JAN-2010 17:22:01	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	41134	No
10	GOM_NL__2PRFIN20100111_172417_000000452085_00499_41134_9605.N1	11-JAN-2010 17:24:17	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	41134	No
11	GOM_NL__2PRFIN20100111_173130_000000512085_00499_41134_9606.N1	11-JAN-2010 17:31:30	Twilight_stray	51.000	14	58Alp Ori	0.87000	3000.0	102	41134	No
12	GOM_NL__2PRFIN20100111_173553_000000412085_00499_41134_9607.N1	11-JAN-2010 17:35:53	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	41134	No
13	GOM_NL__2PRFIN20100111_173959_000000532085_00499_41134_9608.N1	11-JAN-2010 17:39:59	Bright	53.000	107	37The Aur	2.6490	11000.	106	41134	No
14	GOM_NL__2PRFIN20100111_174211_000000362085_00499_41134_9609.N1	11-JAN-2010 17:42:11	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	41134	No
15	GOM_NL__2PRFIN20100111_175441_000000442085_00499_41134_9610.N1	11-JAN-2010 17:54:41	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	41134	No
16	GOM_NL__2PRFIN20100111_180301_000000332085_00499_41134_9611.N1	11-JAN-2010 18:03:01	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	41134	No
17	GOM_NL__2PRFIN20100111_181142_000000352085_00499_41134_9612.N1	11-JAN-2010 18:11:42	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	41134	No
18	GOM_NL__2PRFIN20100111_181353_000000432085_00499_41134_9613.N1	11-JAN-2010 18:13:53	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	41134	No
19	GOM_NL__2PRFIN20100111_182002_000000592085_00499_41134_9614.N1	11-JAN-2010 18:20:02	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41134	No
20	GOM_NL__2PRFIN20100111_182213_000000542085_00499_41134_9615.N1	11-JAN-2010 18:22:13	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	41134	No
21	GOM_NL__2PRFIN20100111_182537_000000442085_00499_41134_9616.N1	11-JAN-2010 18:25:37	Twilight_stray	44.000	104	27Bet Lib	2.6140	13100.	88	41134	No
22	GOM_NL__2PRFIN20100111_182744_000000432085_00499_41134_9617.N1	11-JAN-2010 18:27:44	Twilight_stray	43.000	80	7Del Sco	2.3160	30000.	86	41134	No
23	GOM_NL__2PRFIN20100111_183312_000000392085_00499_41134_9618.N1	11-JAN-2010 18:33:12	Dark	38.500	131	Gam Lup	2.8000	26000.	77	41134	No
24	GOM_NL__2PRFIN20100111_183621_000000392085_00499_41134_9619.N1	11-JAN-2010 18:36:21	Dark	39.000	78	Alp Lup	2.3040	28000.	78	41134	No
25	GOM_NL__2PRFIN20100111_183815_000000422085_00499_41134_9625.N1	11-JAN-2010 18:38:15	Dark	41.500	95	Zet Cen	2.5450	26000.	83	41134	No
26	GOM_NL__2PRFIN20100111_184000_000000432085_00500_41135_9626.N1	11-JAN-2010 18:40:00	Dark	42.500	10	Bet Cen	0.61000	28000.	85	41135	No
27	GOM_NL__2PRFIN20100111_184821_000000462085_00500_41135_9627.N1	11-JAN-2010 18:48:21	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	41135	No
28	GOM_NL__2PRFIN20100111_185001_000000382085_00500_41135_9628.N1	11-JAN-2010 18:50:01	Dark	37.500	71	lot Car	2.2460	7700.0	75	41135	No
29	GOM_NL__2PRFIN20100111_185121_000000512085_00500_41135_9629.N1	11-JAN-2010 18:51:21	Dark	51.000	41	Eps Car	1.8600	4100.0	102	41135	No
30	GOM_NL__2PRFIN20100111_185649_000000432085_00500_41135_9630.N1	11-JAN-2010 18:56:49	Dark	42.500	70	Zet Pup	2.2460	39000.	85	41135	No
31	GOM_NL__2PRFIN20100111_185834_000000442085_00500_41135_9631.N1	11-JAN-2010 18:58:34	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	41135	No
32	GOM_NL__2PRFIN20100111_190111_000000432085_00500_41135_9632.N1	11-JAN-2010 19:01:11	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	41135	No
33	GOM_NL__2PRFIN20100111_190237_000000402085_00500_41135_9633.N1	11-JAN-2010 19:02:37	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	41135	No
34	GOM_NL__2PRFIN20100111_190454_000000472085_00500_41135_9634.N1	11-JAN-2010 19:04:54	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	41135	No
35	GOM_NL__2PRFIN20100111_191206_000000472085_00500_41135_9635.N1	11-JAN-2010 19:12:06	Twilight_stray	47.000	14	58Alp Ori	0.87000	3000.0	94	41135	No
36	GOM_NL__2PRFIN20100111_191446_000000452085_00500_41135_9636.N1	11-JAN-2010 19:14:46	Twilight_stray	45.000	44	24Gam Gem	1.9280	11000.	90	41135	No
37	GOM_NL__2PRFIN20100111_191628_000000462085_00500_41135_9637.N1	11-JAN-2010 19:16:28	Bright	46.000	151	13Mu Gem	2.8900	3000.0	92	41135	No
38	GOM_NL__2PRFIN20100111_192034_000000382085_00500_41135_9638.N1	11-JAN-2010 19:20:34	Bright	37.500	107	37The Aur	2.6490	11000.	75	41135	No
39	GOM_NL__2PRFIN20100111_192247_000000392085_00500_41135_9639.N1	11-JAN-2010 19:22:47	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	41135	No
40	GOM_NL__2PRFIN20100111_193516_000000382085_00500_41135_9640.N1	11-JAN-2010 19:35:16	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	41135	No
41	GOM_NL__2PRFIN20100111_193924_000000372085_00500_41135_9641.N1	11-JAN-2010 19:39:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41135	No
42	GOM_NL__2PRFIN20100111_194336_000000352085_00500_41135_9642.N1	11-JAN-2010 19:43:36	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	41135	No

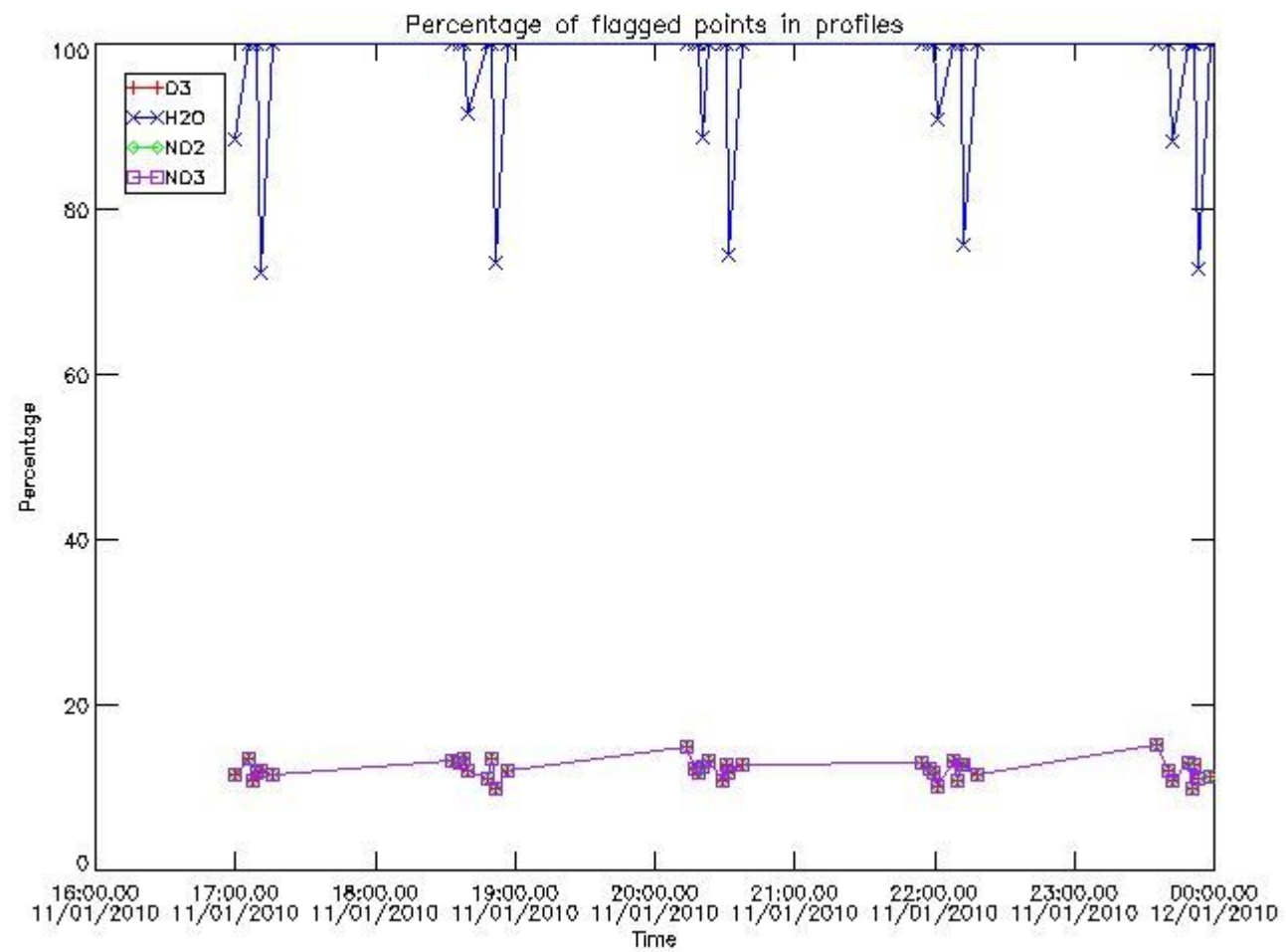
43	GOM_NL_2PRFIN20100111_195218_000000502085_00500_41135_9643.N1	11-JAN-2010 19:52:18	Bright	50.000	133	40Zet Her	2.8070	6000.0	100	41135	No
44	GOM_NL_2PRFIN20100111_195428_000000602085_00500_41135_9644.N1	11-JAN-2010 19:54:28	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41135	No
45	GOM_NL_2PRFIN20100111_200038_000000592085_00500_41135_9645.N1	11-JAN-2010 20:00:38	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41135	No
46	GOM_NL_2PRFIN20100111_200613_000000472085_00500_41135_9646.N1	11-JAN-2010 20:06:13	Twilight	46.500	104	27Bet Lib	2.6140	13100.	93	41135	No
47	GOM_NL_2PRFIN20100111_200820_000000432085_00500_41135_9647.N1	11-JAN-2010 20:08:20	Twilight	42.500	80	7Del Sco	2.3160	30000.	85	41135	No
48	GOM_NL_2PRFIN20100111_201348_000000382085_00500_41135_9648.N1	11-JAN-2010 20:13:48	Dark	37.500	131	Gam Lup	2.8000	26000.	75	41135	No
49	GOM_NL_2PRFIN20100111_201657_000000422085_00500_41135_9649.N1	11-JAN-2010 20:16:57	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41135	No
50	GOM_NL_2PRFIN20100111_201851_000000432085_00500_41135_9634.N1	11-JAN-2010 20:18:51	Dark	43.000	95	Zet Cen	2.5450	26000.	86	41135	No
51	GOM_NL_2PRFIN20100111_202036_000000412085_00501_41136_9635.N1	11-JAN-2010 20:20:36	Dark	40.500	10	Bet Cen	0.61000	28000.	81	41136	No
52	GOM_NL_2PRFIN20100111_202304_000000432085_00501_41136_9636.N1	11-JAN-2010 20:23:04	Dark	42.500	20	Bet Cru	1.2530	30000.	85	41136	No
53	GOM_NL_2PRFIN20100111_202857_000000472085_00501_41136_9637.N1	11-JAN-2010 20:28:57	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	41136	No
54	GOM_NL_2PRFIN20100111_203037_000000402085_00501_41136_9638.N1	11-JAN-2010 20:30:37	Dark	40.000	71	lot Car	2.2460	7700.0	80	41136	No
55	GOM_NL_2PRFIN20100111_203157_000000472085_00501_41136_9639.N1	11-JAN-2010 20:31:57	Dark	47.000	41	Eps Car	1.8600	4100.0	94	41136	No
56	GOM_NL_2PRFIN20100111_203724_000000442085_00501_41136_9640.N1	11-JAN-2010 20:37:24	Dark	43.500	70	Zet Pup	2.2460	39000.	87	41136	No
57	GOM_NL_2PRFIN20100111_203910_000000462085_00501_41136_9641.N1	11-JAN-2010 20:39:10	Straylight	46.000	117	Pi Pup	2.7060	3800.0	92	41136	No
58	GOM_NL_2PRFIN20100111_204146_000000422085_00501_41136_9642.N1	11-JAN-2010 20:41:46	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	41136	No
59	GOM_NL_2PRFIN20100111_204313_000000422085_00501_41136_9643.N1	11-JAN-2010 20:43:13	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	41136	No
60	GOM_NL_2PRFIN20100111_204529_000000452085_00501_41136_9644.N1	11-JAN-2010 20:45:29	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	41136	No
61	GOM_NL_2PRFIN20100111_205242_000000522085_00501_41136_9645.N1	11-JAN-2010 20:52:42	Twilight	51.500	14	58Alp Ori	0.87000	3000.0	103	41136	No
62	GOM_NL_2PRFIN20100111_205521_000000442085_00501_41136_9646.N1	11-JAN-2010 20:55:21	Twilight	44.000	44	24Gam Gem	1.9280	11000.	88	41136	No
63	GOM_NL_2PRFIN20100111_205704_000000542085_00501_41136_9647.N1	11-JAN-2010 20:57:04	Bright	54.000	151	13Mu Gem	2.8900	3000.0	108	41136	No
64	GOM_NL_2PRFIN20100111_210110_000000372085_00501_41136_9648.N1	11-JAN-2010 21:01:10	Bright	36.500	107	37The Aur	2.6490	11000.	73	41136	No
65	GOM_NL_2PRFIN20100111_210322_000000382085_00501_41136_9649.N1	11-JAN-2010 21:03:22	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	41136	No
66	GOM_NL_2PRFIN20100111_211552_000000342085_00501_41136_9650.N1	11-JAN-2010 21:15:52	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	41136	No
67	GOM_NL_2PRFIN20100111_211959_000000402085_00501_41136_9651.N1	11-JAN-2010 21:19:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	41136	No
68	GOM_NL_2PRFIN20100111_212412_000000522085_00501_41136_9652.N1	11-JAN-2010 21:24:12	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	41136	No
69	GOM_NL_2PRFIN20100111_213254_000000532085_00501_41136_9653.N1	11-JAN-2010 21:32:54	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	41136	No
70	GOM_NL_2PRFIN20100111_213504_000000602085_00501_41136_9654.N1	11-JAN-2010 21:35:04	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41136	No
71	GOM_NL_2PRFIN20100111_214115_000000592085_00501_41136_9655.N1	11-JAN-2010 21:41:15	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41136	No
72	GOM_NL_2PRFIN20100111_214649_000000472085_00501_41136_9656.N1	11-JAN-2010 21:46:49	Twilight	47.000	104	27Bet Lib	2.6140	13100.	94	41136	No
73	GOM_NL_2PRFIN20100111_214856_000000452085_00501_41136_9657.N1	11-JAN-2010 21:48:56	Twilight	45.000	80	7Del Sco	2.3160	30000.	90	41136	No
74	GOM_NL_2PRFIN20100111_215425_000000402085_00501_41136_9658.N1	11-JAN-2010 21:54:25	Dark	39.500	131	Gam Lup	2.8000	26000.	79	41136	No
75	GOM_NL_2PRFIN20100111_215734_000000422085_00501_41136_9659.N1	11-JAN-2010 21:57:34	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41136	No
76	GOM_NL_2PRFIN20100111_215928_000000432086_00501_41136_9643.N1	11-JAN-2010 21:59:28	Dark	43.000	95	Zet Cen	2.5450	26000.	86	41136	No
77	GOM_NL_2PRFIN20100111_220113_000000502086_00001_41137_9644.N1	11-JAN-2010 22:01:13	Dark	50.000	10	Bet Cen	0.61000	28000.	100	41137	No
78	GOM_NL_2PRFIN20100111_220754_000000392086_00001_41137_9645.N1	11-JAN-2010 22:07:54	Dark	38.500	124	The Car	2.7640	30000.	77	41137	No
79	GOM_NL_2PRFIN20100111_220934_000000472086_00001_41137_9646.N1	11-JAN-2010 22:09:34	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	41137	No
80	GOM_NL_2PRFIN20100111_221113_000000402086_00001_41137_9647.N1	11-JAN-2010 22:11:13	Dark	40.000	71	lot Car	2.2460	7700.0	80	41137	No
81	GOM_NL_2PRFIN20100111_221233_000000442086_00001_41137_9648.N1	11-JAN-2010 22:12:33	Dark	43.500	41	Eps Car	1.8600	4100.0	87	41137	No
82	GOM_NL_2PRFIN20100111_221801_000000442086_00001_41137_9649.N1	11-JAN-2010 22:18:01	Dark	44.000	70	Zet Pup	2.2460	39000.	88	41137	No
83	GOM_NL_2PRFIN20100111_221946_000000422086_00001_41137_9650.N1	11-JAN-2010 22:19:46	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	41137	No
84	GOM_NL_2PRFIN20100111_222222_000000432086_00001_41137_9651.N1	11-JAN-2010 22:22:22	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	41137	No
85	GOM_NL_2PRFIN20100111_222349_000000412086_00001_41137_9652.N1	11-JAN-2010 22:23:49	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	41137	No
86	GOM_NL_2PRFIN20100111_222605_000000422086_00001_41137_9653.N1	11-JAN-2010 22:26:05	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	41137	No
87	GOM_NL_2PRFIN20100111_223318_000000522086_00001_41137_9654.N1	11-JAN-2010 22:33:18	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	41137	No
88	GOM_NL_2PRFIN20100111_223739_000000452086_00001_41137_9655.N1	11-JAN-2010 22:37:39	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	41137	No
89	GOM_NL_2PRFIN20100111_224146_000000382086_00001_41137_9656.N1	11-JAN-2010 22:41:46	Bright	37.500	107	37The Aur	2.6490	11000.	75	41137	No
90	GOM_NL_2PRFIN20100111_224358_000000362086_00001_41137_9657.N1	11-JAN-2010 22:43:58	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	41137	No
91	GOM_NL_2PRFIN20100111_225628_000000322086_00001_41137_9658.N1	11-JAN-2010 22:56:28	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	41137	No
92	GOM_NL_2PRFIN20100111_230035_000000402086_00001_41137_9659.N1	11-JAN-2010 23:00:35	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	41137	No
93	GOM_NL_2PRFIN20100111_230447_000000542086_00001_41137_9660.N1	11-JAN-2010 23:04:47	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	41137	No
94	GOM_NL_2PRFIN20100111_231330_000000532086_00001_41137_9661.N1	11-JAN-2010 23:13:30	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	41137	No
95	GOM_NL_2PRFIN20100111_231540_000000602086_00001_41137_9662.N1	11-JAN-2010 23:15:40	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41137	No
96	GOM_NL_2PRFIN20100111_232151_000000432086_00001_41137_9663.N1	11-JAN-2010 23:21:51	Bright	42.500	102	24Alp Ser	2.6000	4250.0	85	41137	No
97	GOM_NL_2PRFIN20100111_232401_000000372086_00001_41137_9664.N1	11-JAN-2010 23:24:01	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	41137	No
98	GOM_NL_2PRFIN20100111_232726_000000482086_00001_41137_9665.N1	11-JAN-2010 23:27:26	Twilight	47.500	104	27Bet Lib	2.6140	13100.	95	41137	No
99	GOM_NL_2PRFIN20100111_232933_000000432086_00001_41137_9666.N1	11-JAN-2010 23:29:33	Twilight	43.000	80	7Del Sco	2.3160	30000.	86	41137	No
100	GOM_NL_2PRFIN20100111_233501_000000402086_00001_41137_9667.N1	11-JAN-2010 23:35:01	Dark	40.000	131	Gam Lup	2.8000	26000.	80	41137	No
101	GOM_NL_2PRFIN20100111_234004_000000432086_00001_41137_9652.N1	11-JAN-2010 23:40:04	Dark	42.500	95	Zet Cen	2.5450	26000.	85	41137	No

102	GOM_NL__2PRFIN20100111_234149_000000482086_00002_41138_9653.N1	11-JAN-2010 23:41:49	Dark	47.500	10	Bet Cen	0.61000	28000.	95	41138	No
103	GOM_NL__2PRFIN20100111_234830_000000402086_00002_41138_9654.N1	11-JAN-2010 23:48:30	Dark	39.500	124	The Car	2.7640	30000.	79	41138	No
104	GOM_NL__2PRFIN20100111_235010_000000512086_00002_41138_9655.N1	11-JAN-2010 23:50:10	Dark	51.000	113	Mu Vel	2.6920	5000.0	102	41138	No
105	GOM_NL__2PRFIN20100111_235149_000000402086_00002_41138_9656.N1	11-JAN-2010 23:51:49	Dark	40.000	71	lot Car	2.2460	7700.0	80	41138	No
106	GOM_NL__2PRFIN20100111_235309_000000502086_00002_41138_9657.N1	11-JAN-2010 23:53:09	Dark	50.000	41	Eps Car	1.8600	4100.0	100	41138	No
107	GOM_NL__2PRFIN20100111_235837_000000452086_00002_41138_9658.N1	11-JAN-2010 23:58:37	Dark	45.000	70	Zet Pup	2.2460	39000.	90	41138	No

### 3. Quality information per product

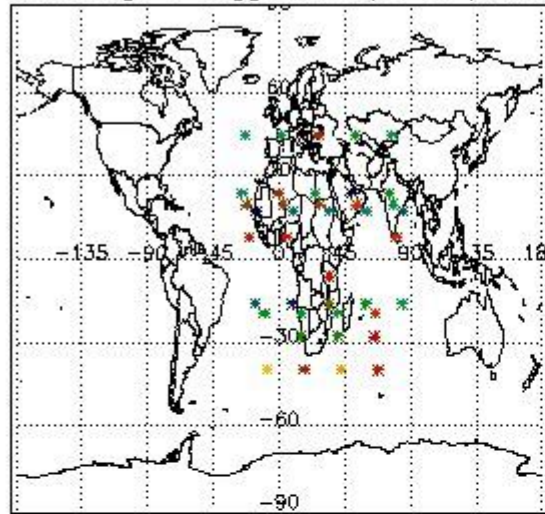
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

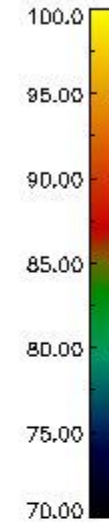
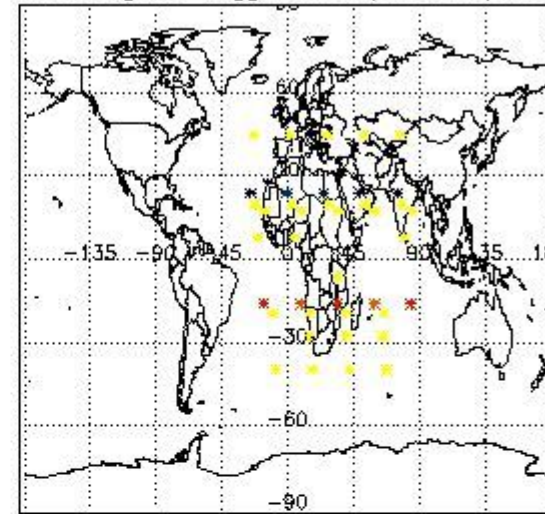


#### 3.2 Plot quality information per product (world map)

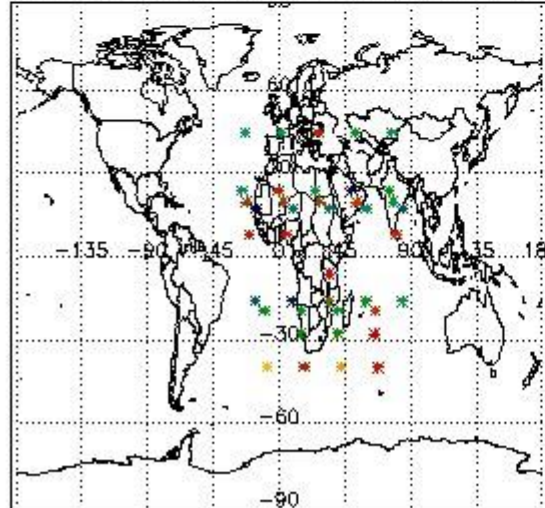
Percentage of flagged data per O3 profile



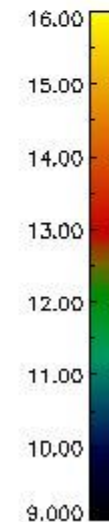
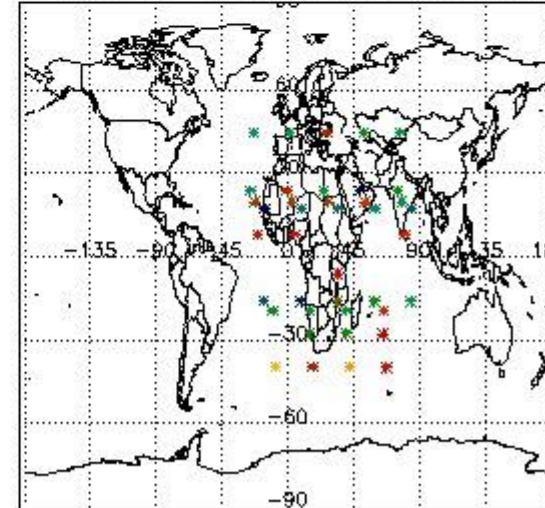
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

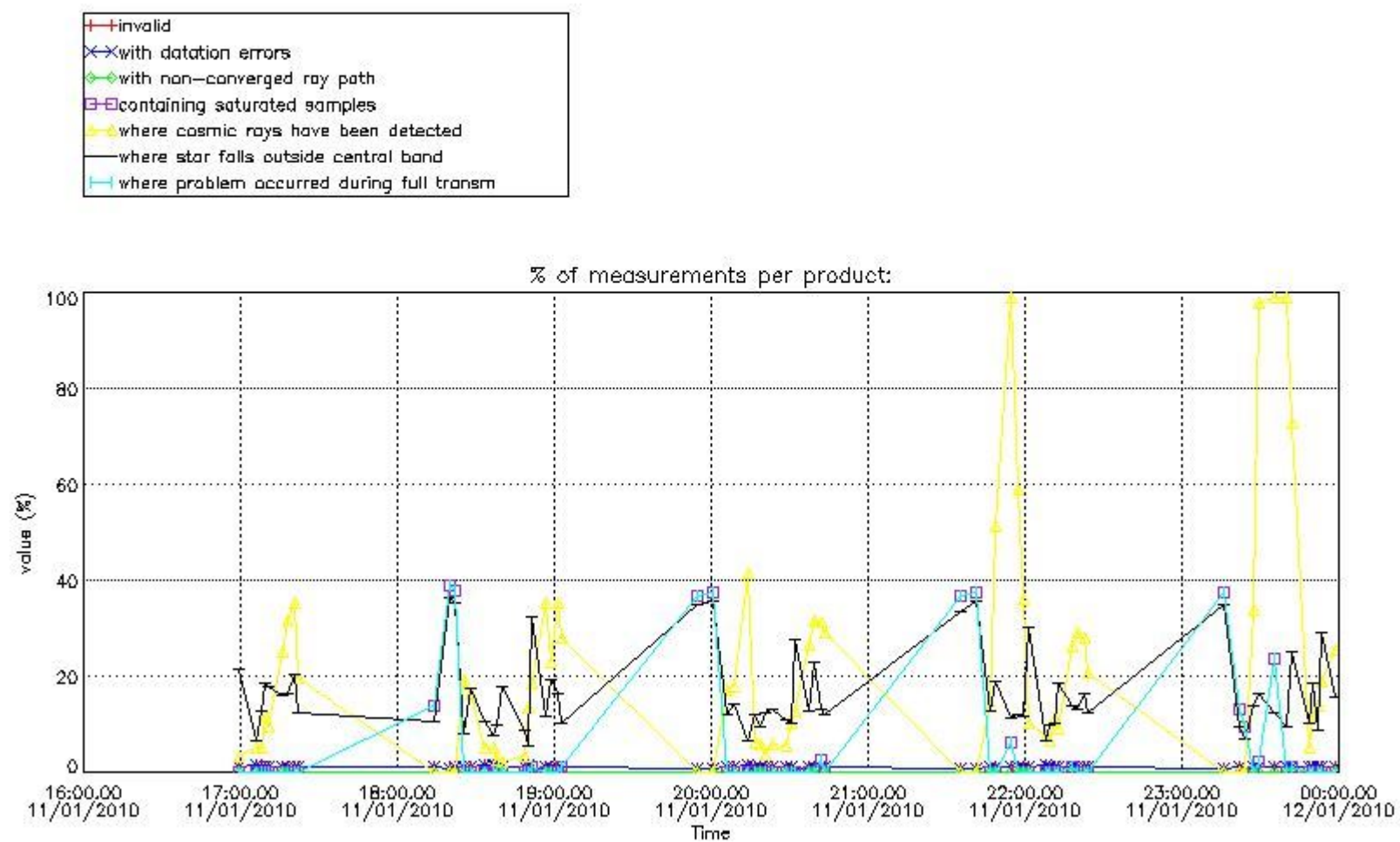


#### 4. Level 1 quality information per product

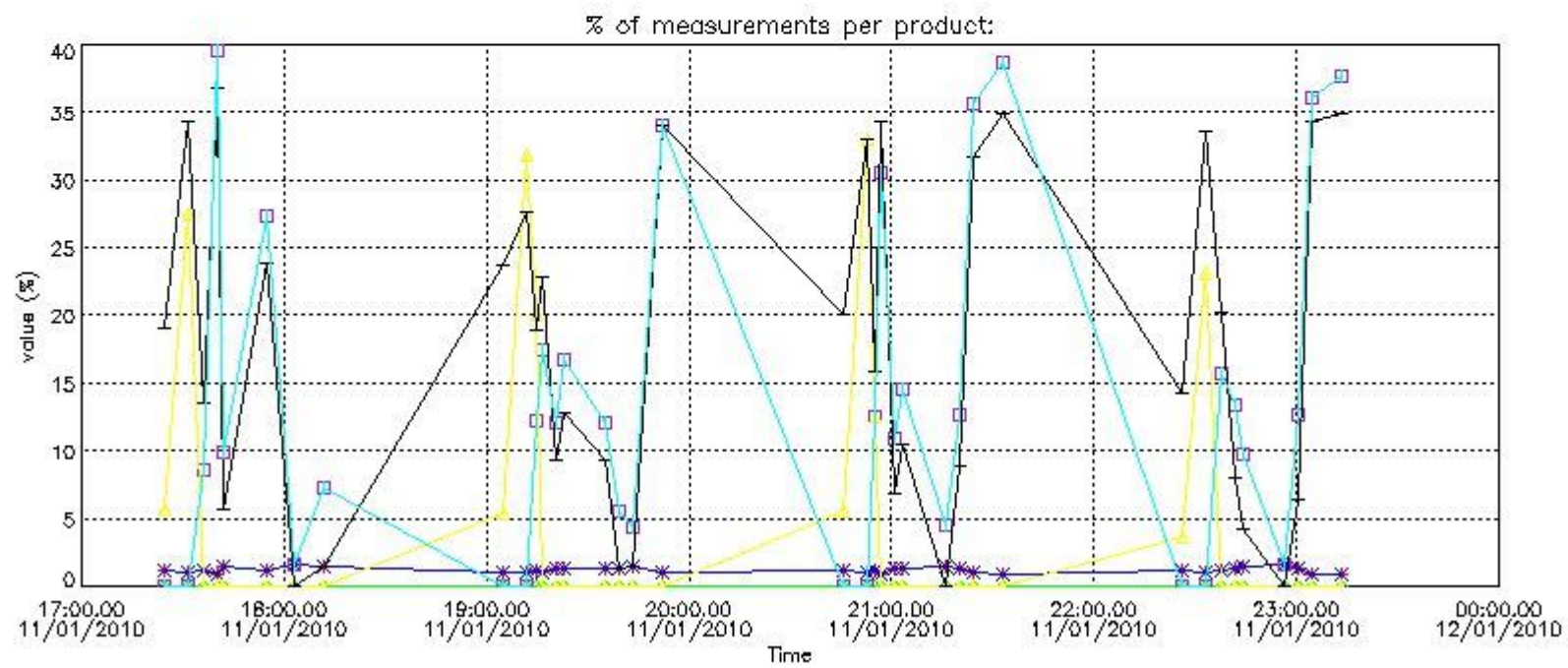
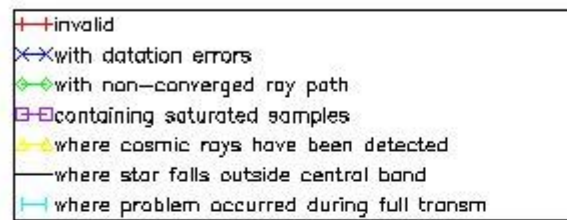
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



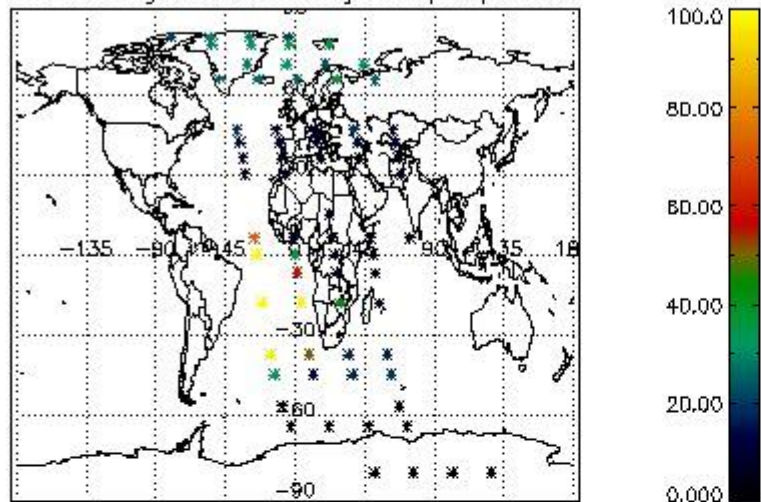
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



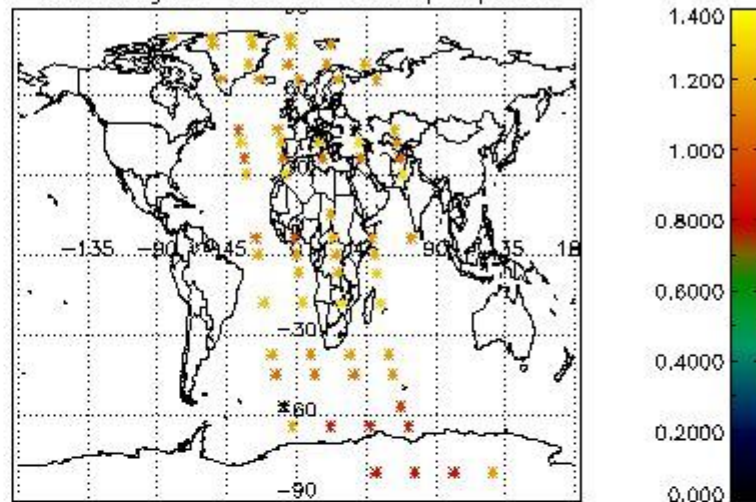
4.2 Plot quality information per product coming from level 1b processing (world map)

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

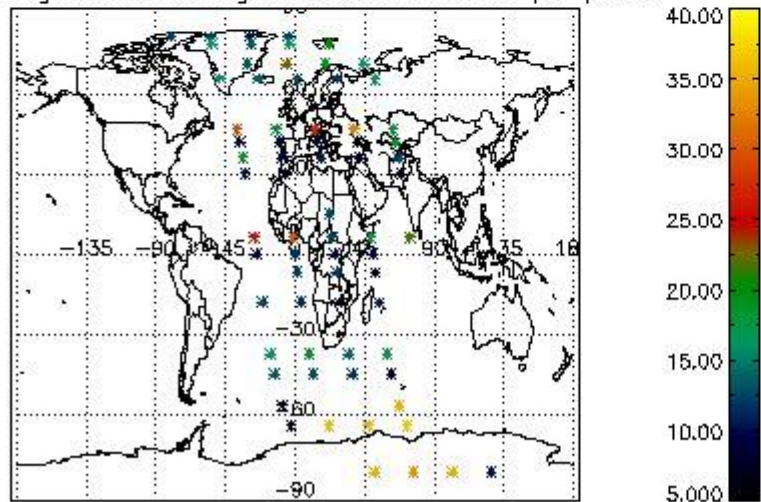
Percentage of cosmic ray hits per profile



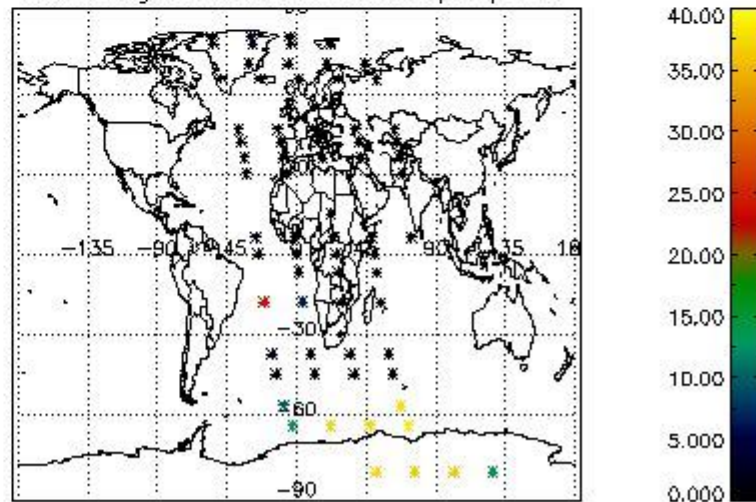
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



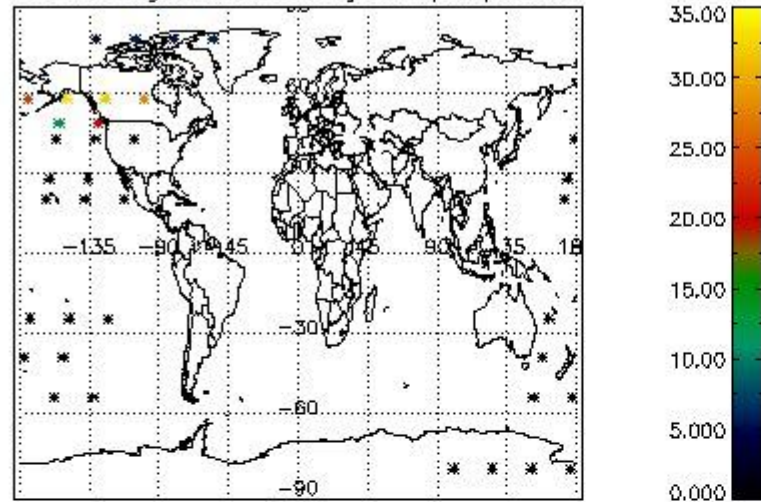
Percentage of saturation errors per profile



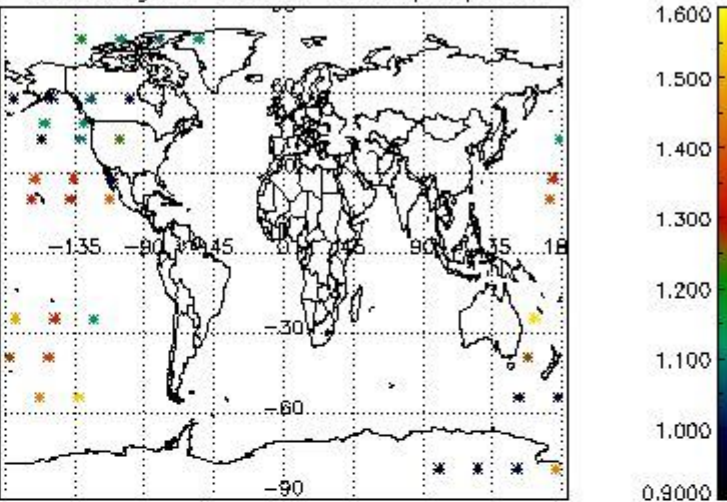
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



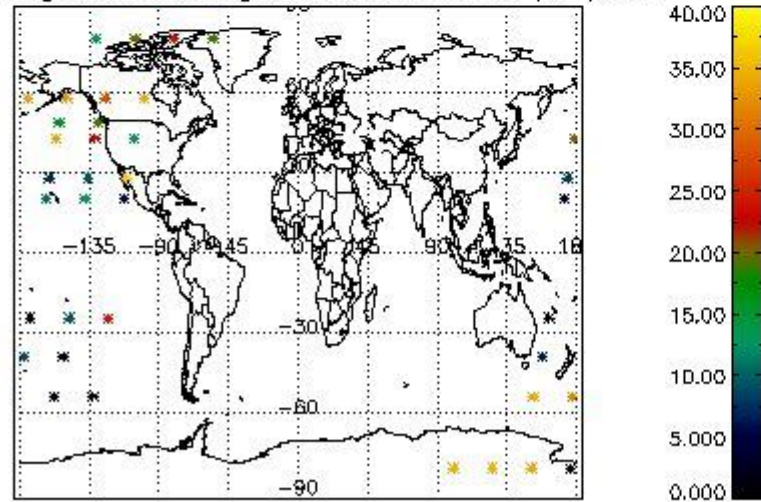
Percentage of cosmic ray hits per profile



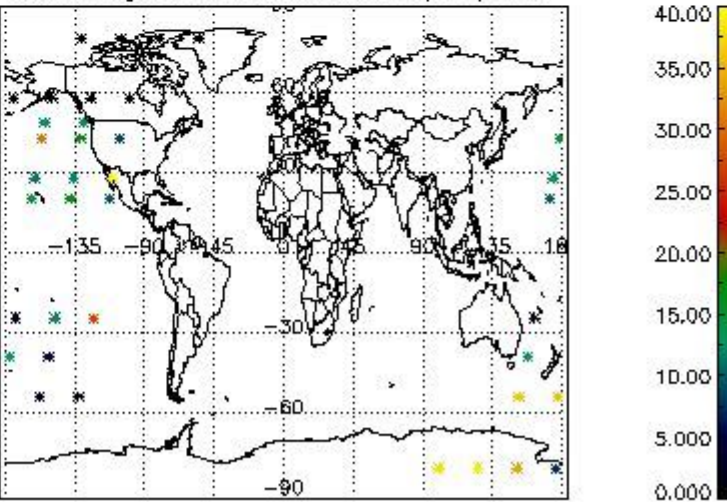
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 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

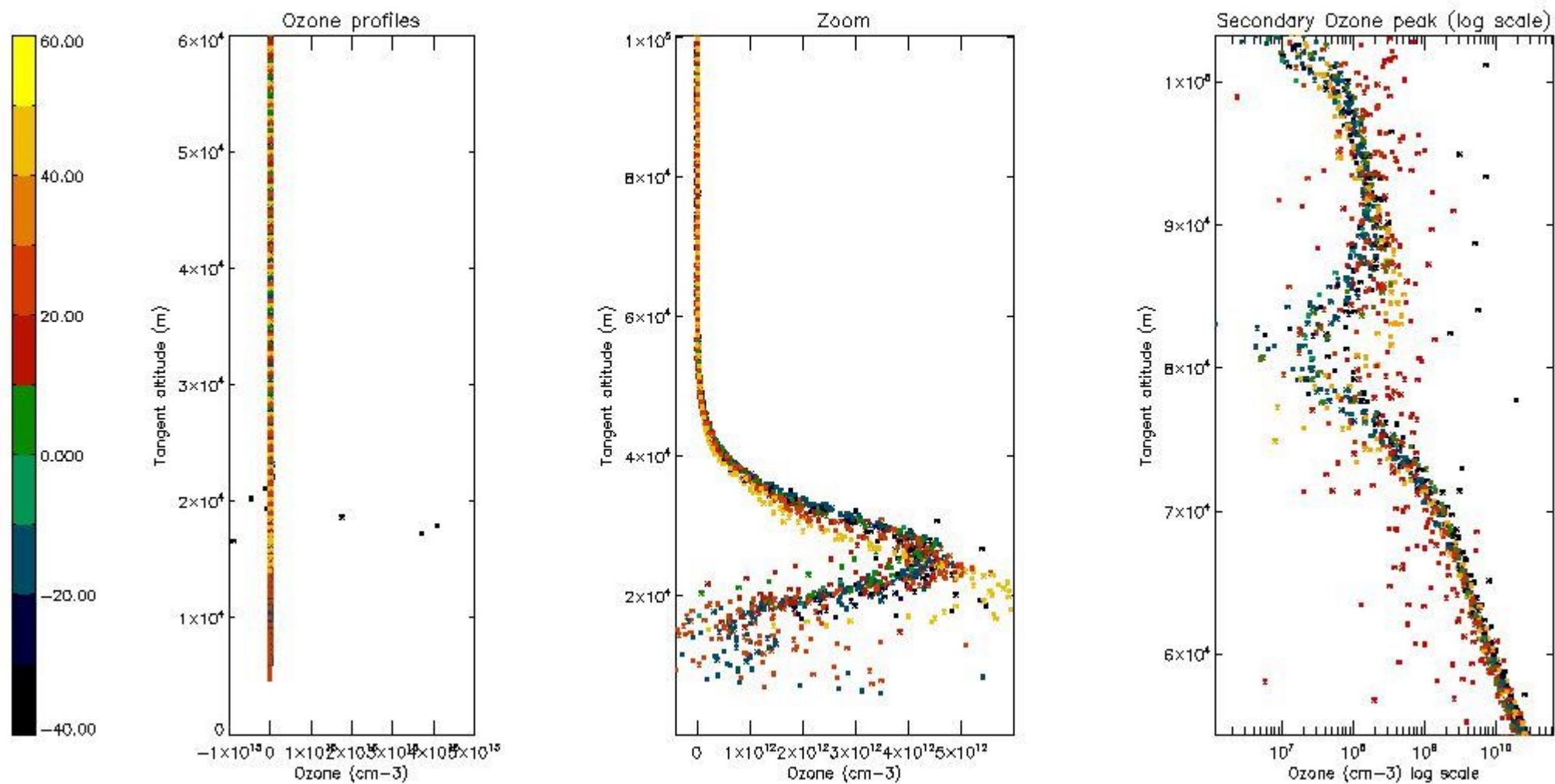
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	19

STD < 10	16
STD < 5	10

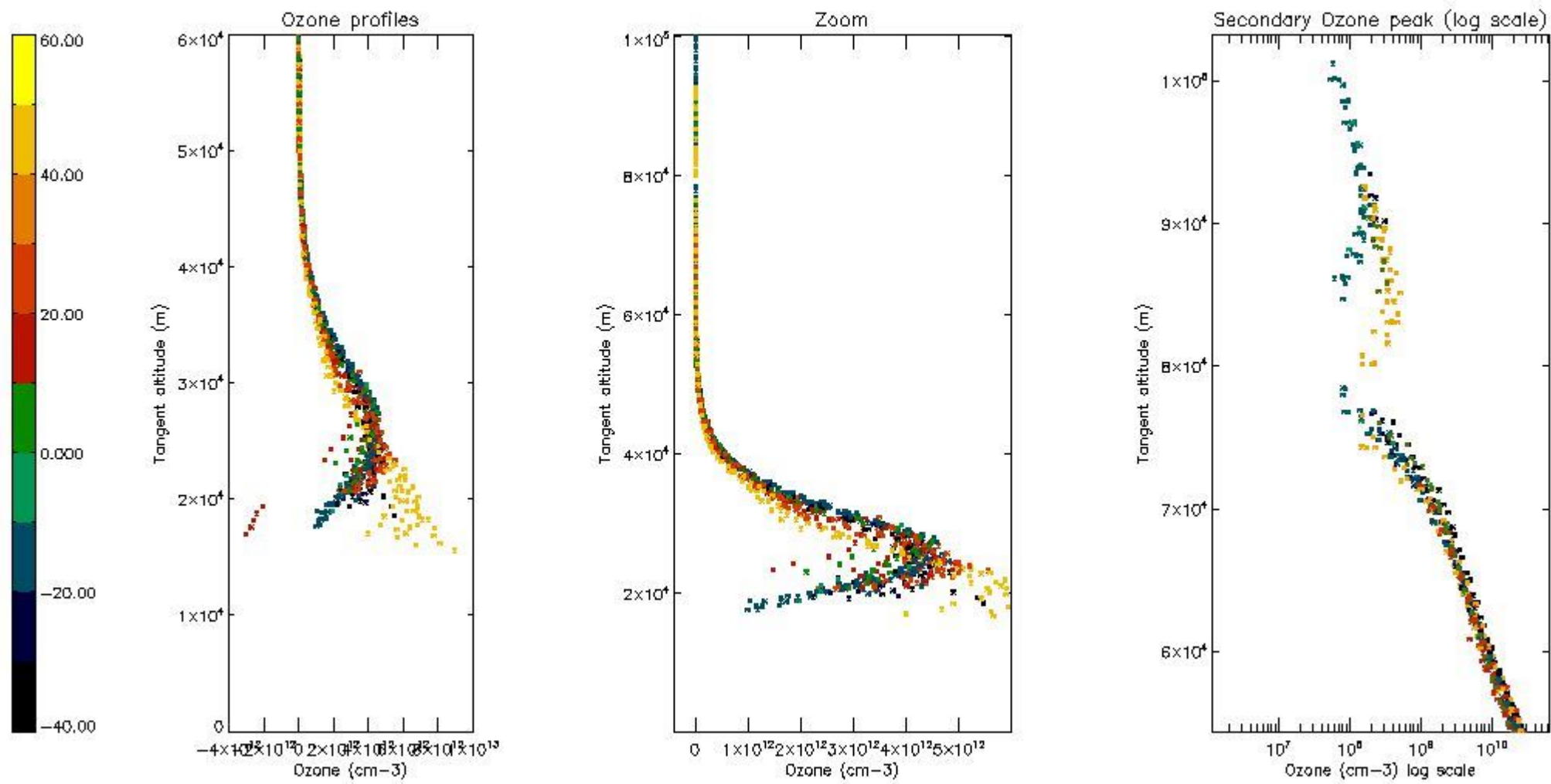
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



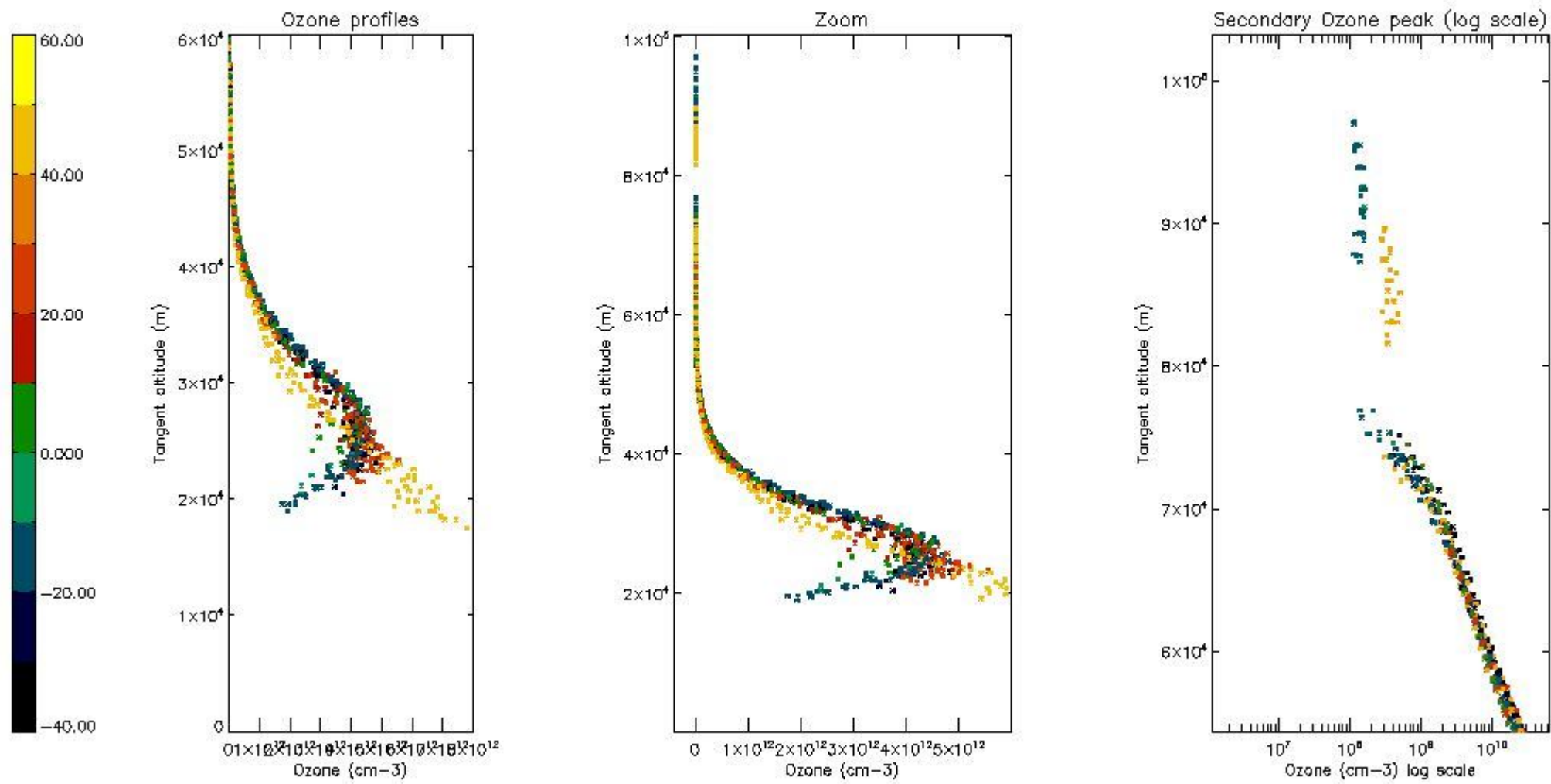
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



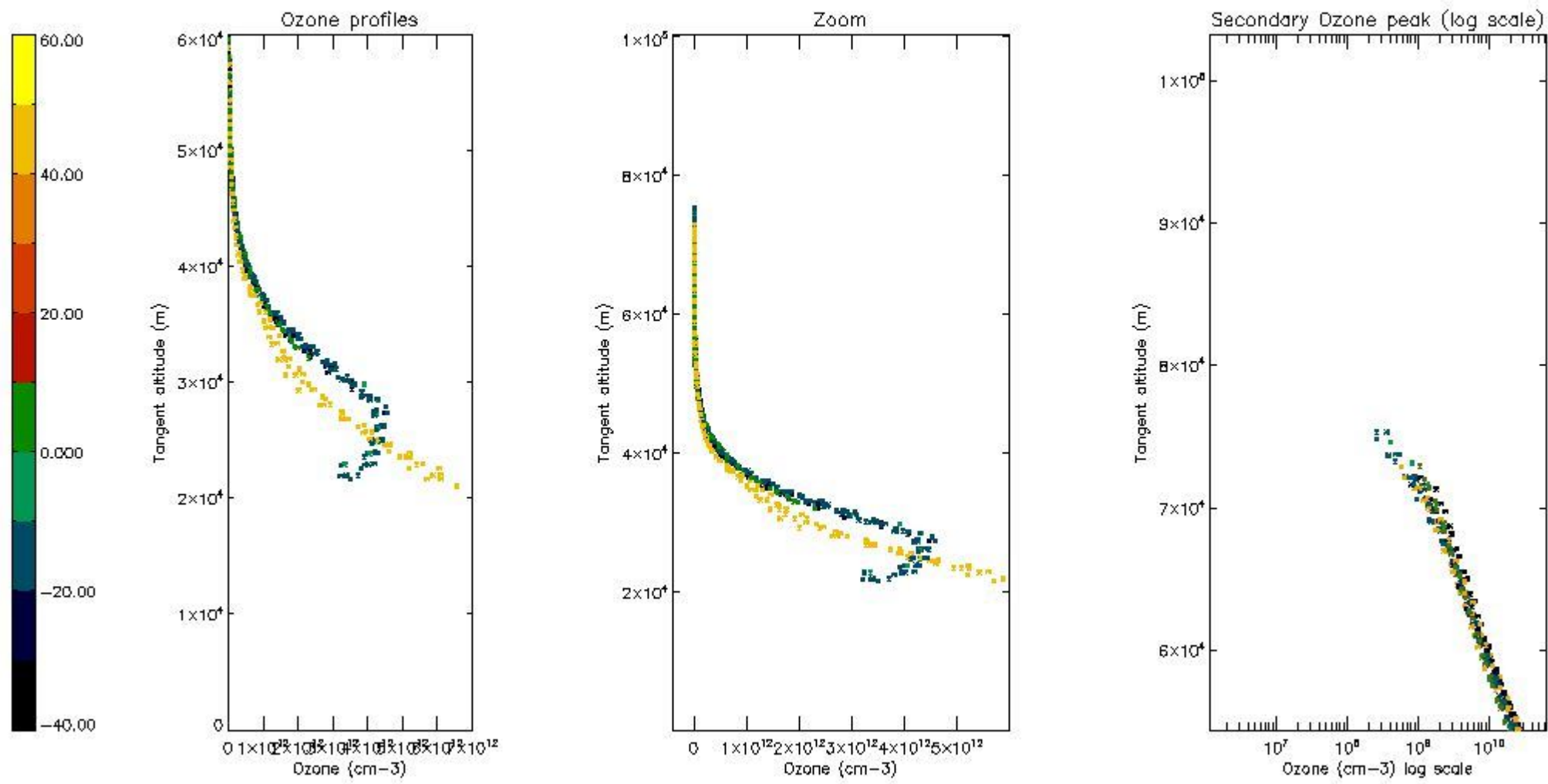
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



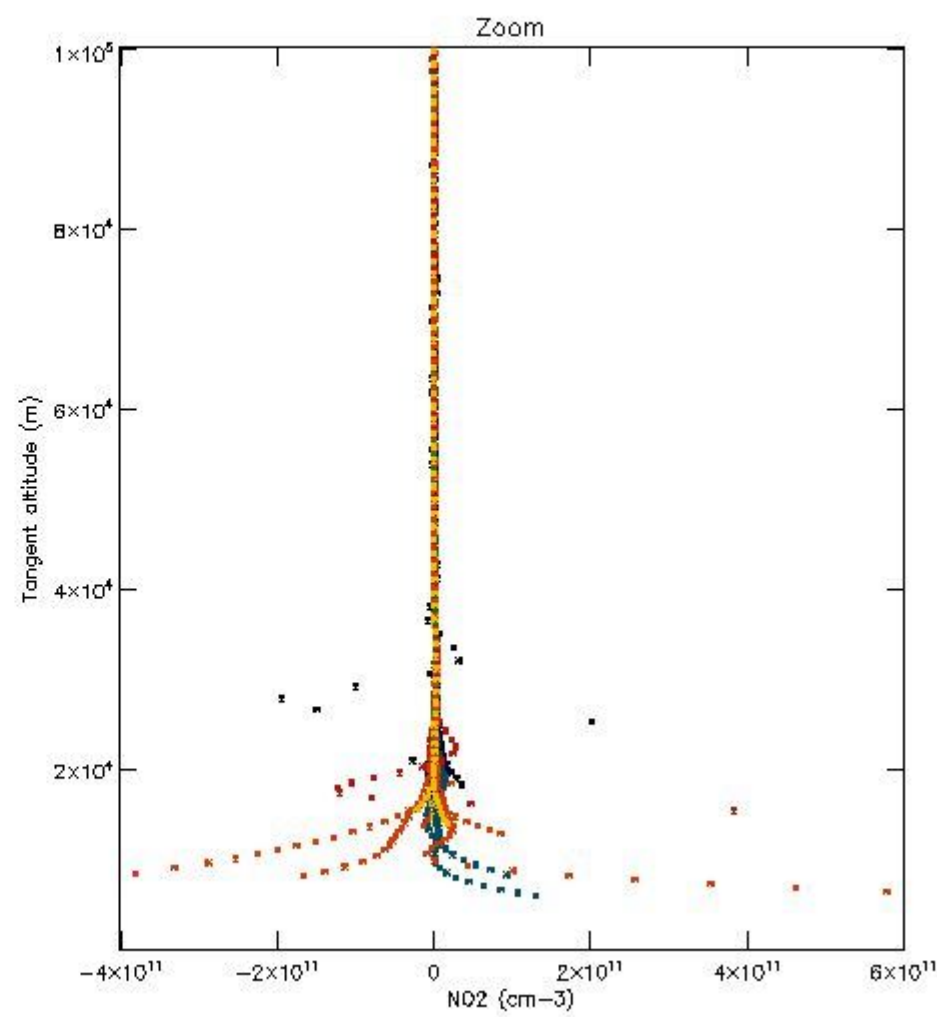
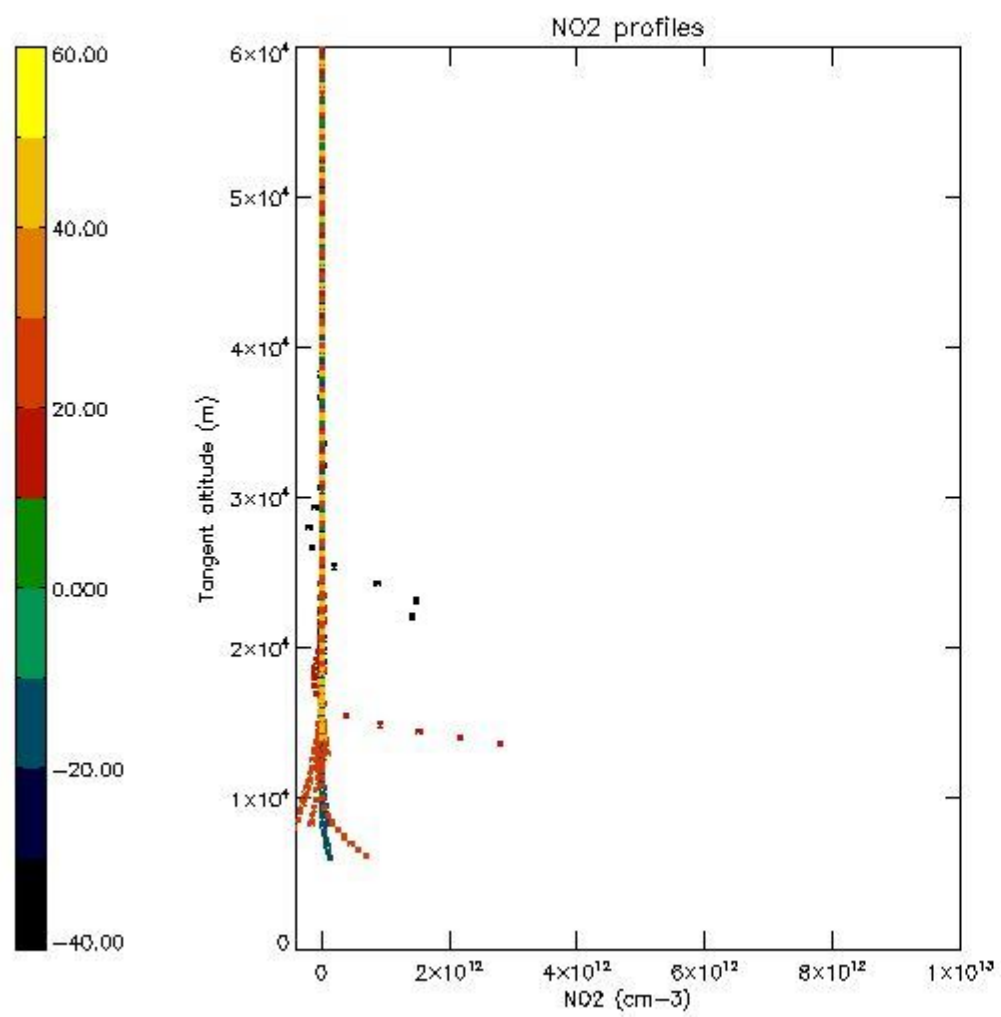
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



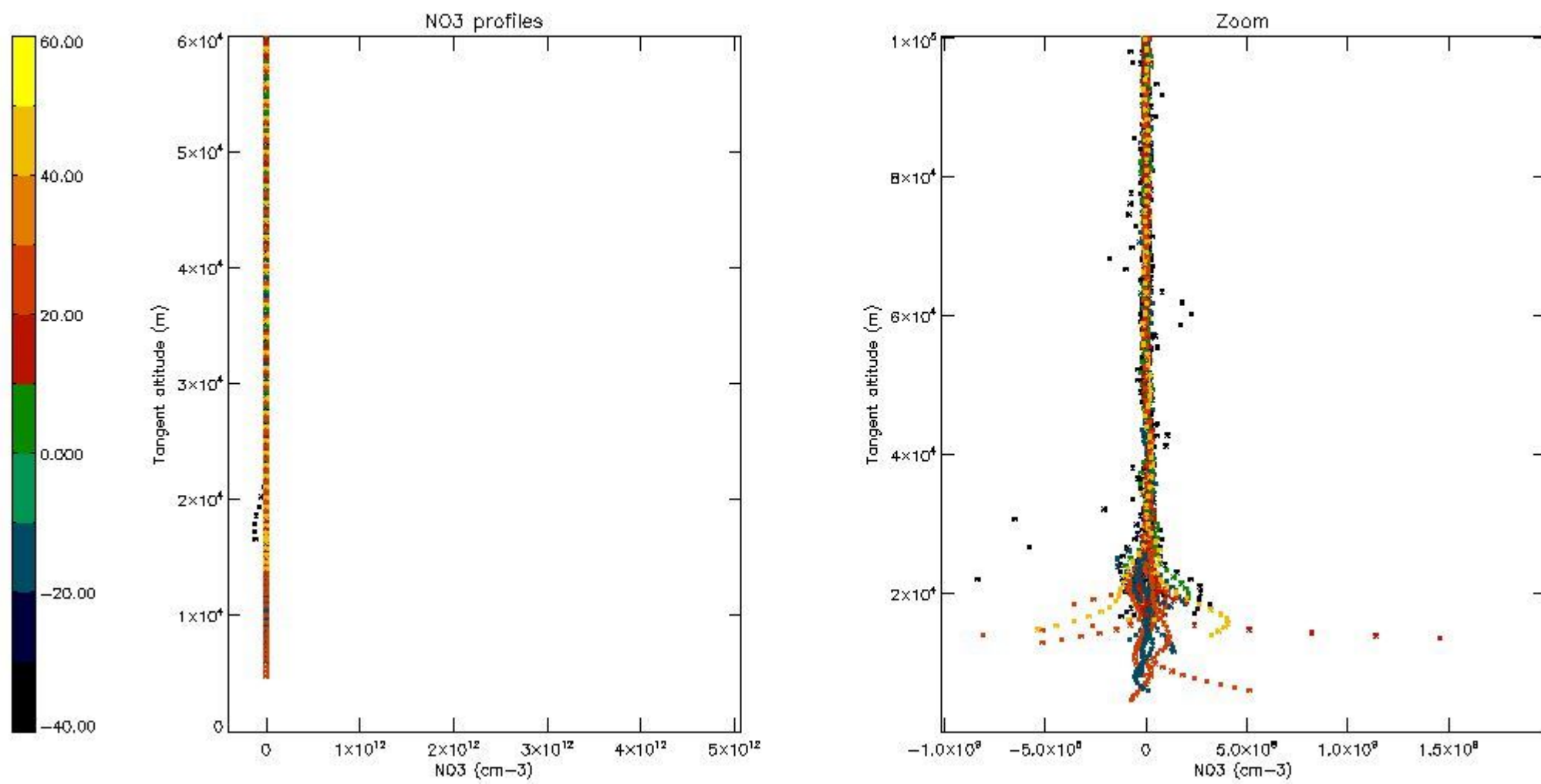
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



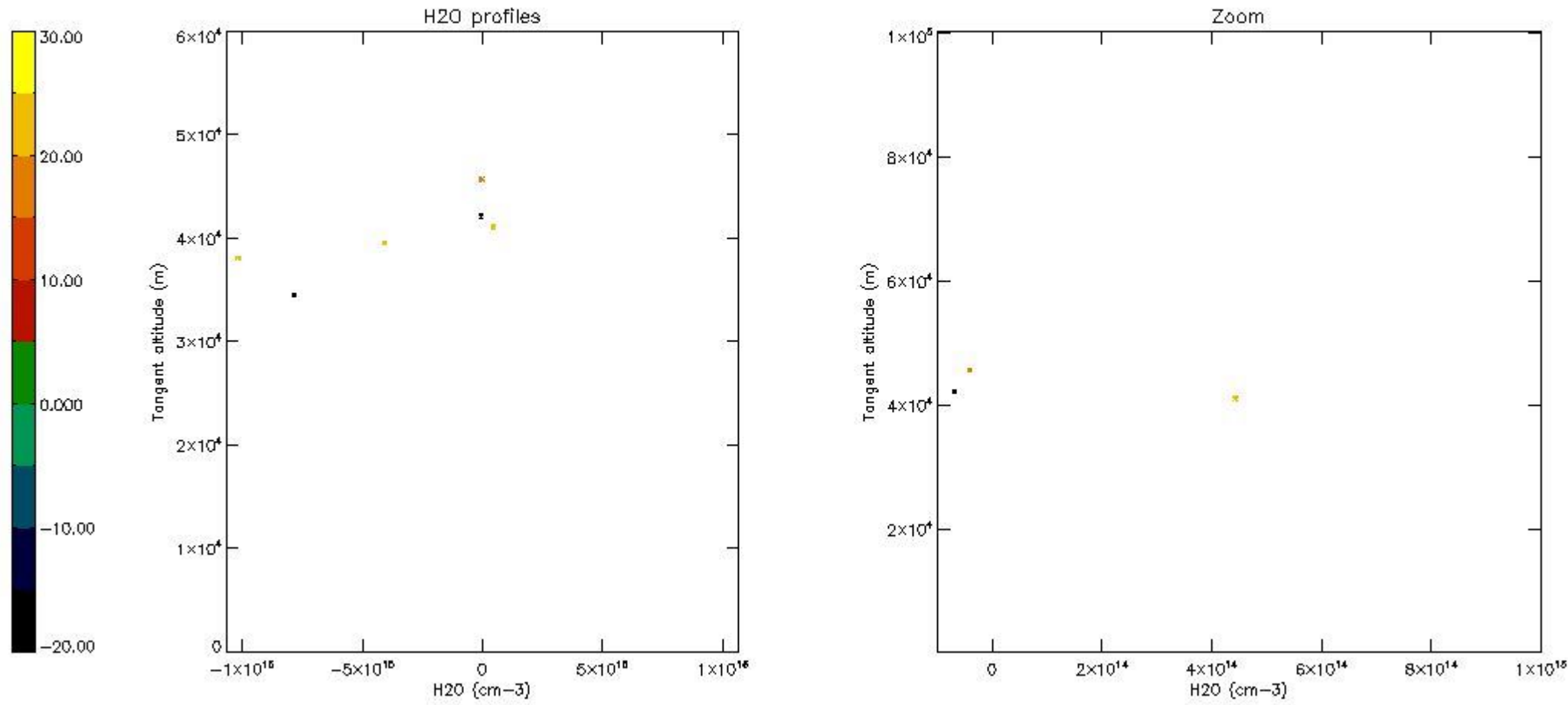
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	11-JAN-2010 16:59:24
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-JAN-2010 16:59:24
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-JAN-2010 16:59:24



# 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	26APR2013 16:12:25
Data source version	GOMOS/6.01
Start time of products	11-01-2010 (11JAN2010 00:00:00)
Stop time of products	12-01-2010 (12JAN2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	107
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__2PRFIN20100111_165924_000000442085_00499_41134_9596.N1	11-JAN-2010 16:59:24	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41134	No
2	GOM_NL__2PRFIN20100111_170605_000000382085_00499_41134_9597.N1	11-JAN-2010 17:06:05	Dark	38.000	124	The Car	2.7640	30000.	76	41134	No
3	GOM_NL__2PRFIN20100111_170744_000000482085_00499_41134_9598.N1	11-JAN-2010 17:07:44	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	41134	No
4	GOM_NL__2PRFIN20100111_170924_000000442085_00499_41134_9599.N1	11-JAN-2010 17:09:24	Dark	43.500	71	lot Car	2.2460	7700.0	87	41134	No
5	GOM_NL__2PRFIN20100111_171044_000000422085_00499_41134_9600.N1	11-JAN-2010 17:10:44	Dark	42.000	41	Eps Car	1.8600	4100.0	84	41134	No
6	GOM_NL__2PRFIN20100111_171613_000000442085_00499_41134_9601.N1	11-JAN-2010 17:16:13	Dark	44.000	70	Zet Pup	2.2460	39000.	88	41134	No
7	GOM_NL__2PRFIN20100111_171758_000000432085_00499_41134_9602.N1	11-JAN-2010 17:17:58	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	41134	No
8	GOM_NL__2PRFIN20100111_172034_000000442085_00499_41134_9603.N1	11-JAN-2010 17:20:34	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41134	No
9	GOM_NL__2PRFIN20100111_172201_000000412085_00499_41134_9604.N1	11-JAN-2010 17:22:01	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	41134	No
10	GOM_NL__2PRFIN20100111_172417_000000452085_00499_41134_9605.N1	11-JAN-2010 17:24:17	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	41134	No
11	GOM_NL__2PRFIN20100111_173130_000000512085_00499_41134_9606.N1	11-JAN-2010 17:31:30	Twilight_and_stray	51.000	14	58Alp Ori	0.87000	3000.0	102	41134	No
12	GOM_NL__2PRFIN20100111_173553_000000412085_00499_41134_9607.N1	11-JAN-2010 17:35:53	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	41134	No
13	GOM_NL__2PRFIN20100111_173959_000000532085_00499_41134_9608.N1	11-JAN-2010 17:39:59	Bright	53.000	107	37The Aur	2.6490	11000.	106	41134	No
14	GOM_NL__2PRFIN20100111_174211_000000362085_00499_41134_9609.N1	11-JAN-2010 17:42:11	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	41134	No
15	GOM_NL__2PRFIN20100111_175441_000000442085_00499_41134_9610.N1	11-JAN-2010 17:54:41	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	41134	No
16	GOM_NL__2PRFIN20100111_180301_000000332085_00499_41134_9611.N1	11-JAN-2010 18:03:01	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	41134	No
17	GOM_NL__2PRFIN20100111_181142_000000352085_00499_41134_9612.N1	11-JAN-2010 18:11:42	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	41134	No
18	GOM_NL__2PRFIN20100111_181353_000000432085_00499_41134_9613.N1	11-JAN-2010 18:13:53	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	41134	No
19	GOM_NL__2PRFIN20100111_182002_000000592085_00499_41134_9614.N1	11-JAN-2010 18:20:02	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41134	No
20	GOM_NL__2PRFIN20100111_182213_000000542085_00499_41134_9615.N1	11-JAN-2010 18:22:13	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	41134	No
21	GOM_NL__2PRFIN20100111_182537_000000442085_00499_41134_9616.N1	11-JAN-2010 18:25:37	Twilight_and_stray	44.000	104	27Bet Lib	2.6140	13100.	88	41134	No
22	GOM_NL__2PRFIN20100111_182744_000000432085_00499_41134_9617.N1	11-JAN-2010 18:27:44	Twilight_and_stray	43.000	80	7Del Sco	2.3160	30000.	86	41134	No
23	GOM_NL__2PRFIN20100111_183312_000000392085_00499_41134_9618.N1	11-JAN-2010 18:33:12	Dark	38.500	131	Gam Lup	2.8000	26000.	77	41134	No
24	GOM_NL__2PRFIN20100111_183621_000000392085_00499_41134_9619.N1	11-JAN-2010 18:36:21	Dark	39.000	78	Alp Lup	2.3040	28000.	78	41134	No
25	GOM_NL__2PRFIN20100111_183815_000000422085_00499_41134_9625.N1	11-JAN-2010 18:38:15	Dark	41.500	95	Zet Cen	2.5450	26000.	83	41134	No
26	GOM_NL__2PRFIN20100111_184000_000000432085_00500_41135_9626.N1	11-JAN-2010 18:40:00	Dark	42.500	10	Bet Cen	0.61000	28000.	85	41135	No
27	GOM_NL__2PRFIN20100111_184821_000000462085_00500_41135_9627.N1	11-JAN-2010 18:48:21	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	41135	No
28	GOM_NL__2PRFIN20100111_185001_000000382085_00500_41135_9628.N1	11-JAN-2010 18:50:01	Dark	37.500	71	lot Car	2.2460	7700.0	75	41135	No
29	GOM_NL__2PRFIN20100111_185121_000000512085_00500_41135_9629.N1	11-JAN-2010 18:51:21	Dark	51.000	41	Eps Car	1.8600	4100.0	102	41135	No
30	GOM_NL__2PRFIN20100111_185649_000000432085_00500_41135_9630.N1	11-JAN-2010 18:56:49	Dark	42.500	70	Zet Pup	2.2460	39000.	85	41135	No
31	GOM_NL__2PRFIN20100111_185834_000000442085_00500_41135_9631.N1	11-JAN-2010 18:58:34	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	41135	No
32	GOM_NL__2PRFIN20100111_190111_000000432085_00500_41135_9632.N1	11-JAN-2010 19:01:11	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	41135	No
33	GOM_NL__2PRFIN20100111_190237_000000402085_00500_41135_9633.N1	11-JAN-2010 19:02:37	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	41135	No
34	GOM_NL__2PRFIN20100111_190454_000000472085_00500_41135_9634.N1	11-JAN-2010 19:04:54	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	41135	No
35	GOM_NL__2PRFIN20100111_191206_000000472085_00500_41135_9635.N1	11-JAN-2010 19:12:06	Twilight_and_stray	47.000	14	58Alp Ori	0.87000	3000.0	94	41135	No
36	GOM_NL__2PRFIN20100111_191446_000000452085_00500_41135_9636.N1	11-JAN-2010 19:14:46	Twilight_and_stray	45.000	44	24Gam Gem	1.9280	11000.	90	41135	No
37	GOM_NL__2PRFIN20100111_191628_000000462085_00500_41135_9637.N1	11-JAN-2010 19:16:28	Bright	46.000	151	13Mu Gem	2.8900	3000.0	92	41135	No
38	GOM_NL__2PRFIN20100111_192034_000000382085_00500_41135_9638.N1	11-JAN-2010 19:20:34	Bright	37.500	107	37The Aur	2.6490	11000.	75	41135	No
39	GOM_NL__2PRFIN20100111_192247_000000392085_00500_41135_9639.N1	11-JAN-2010 19:22:47	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	41135	No
40	GOM_NL__2PRFIN20100111_193516_000000382085_00500_41135_9640.N1	11-JAN-2010 19:35:16	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	41135	No
41	GOM_NL__2PRFIN20100111_193924_000000372085_00500_41135_9641.N1	11-JAN-2010 19:39:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41135	No
42	GOM_NL__2PRFIN20100111_194336_000000352085_00500_41135_9642.N1	11-JAN-2010 19:43:36	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	41135	No



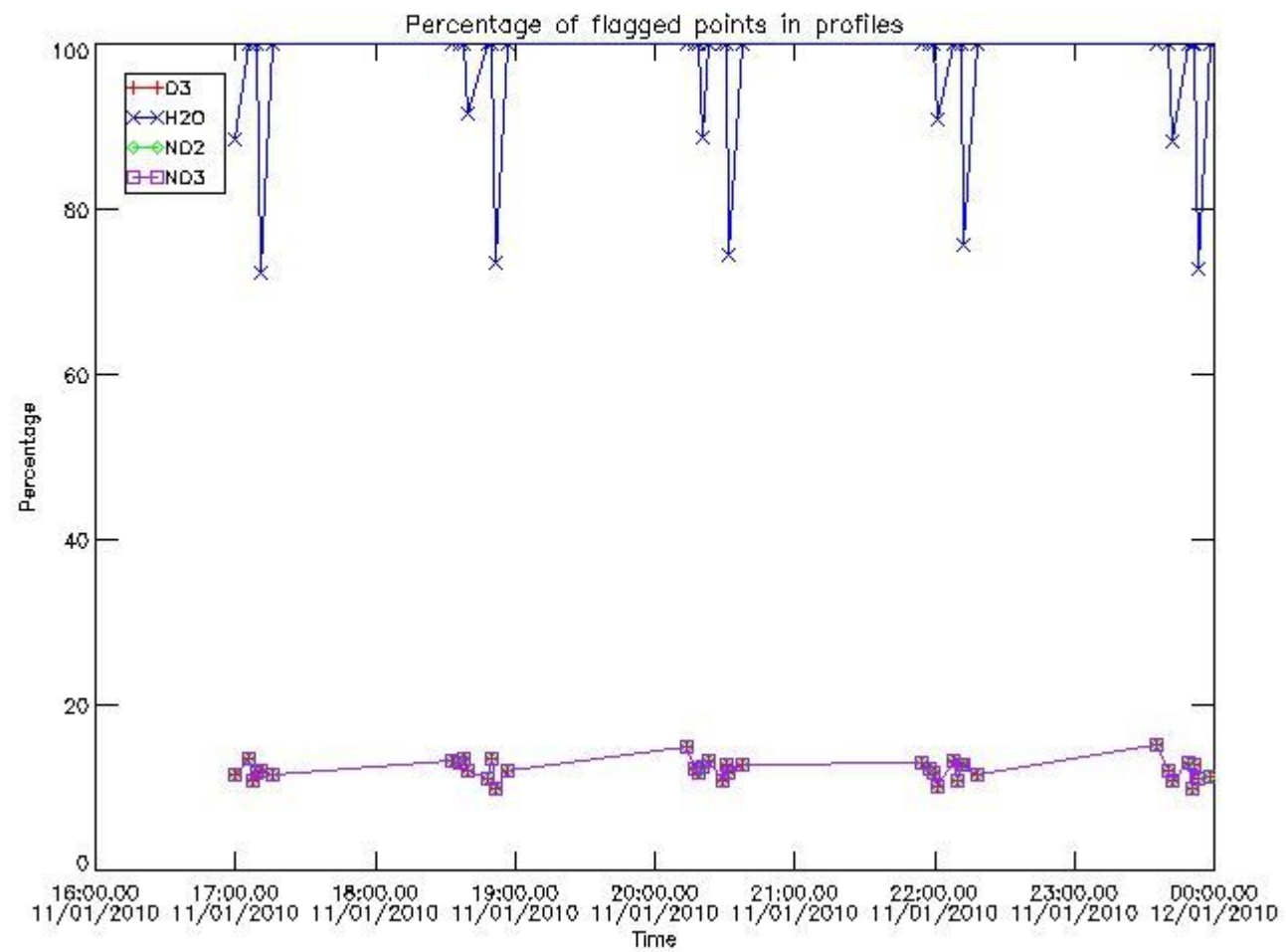
43	GOM_NL__2PRFIN20100111_195218_000000502085_00500_41135_9643.N1	11-JAN-2010 19:52:18	Bright	50.000	133	40Zet Her	2.8070	6000.0	100	41135	No
44	GOM_NL__2PRFIN20100111_195428_000000602085_00500_41135_9644.N1	11-JAN-2010 19:54:28	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41135	No
45	GOM_NL__2PRFIN20100111_200038_000000592085_00500_41135_9645.N1	11-JAN-2010 20:00:38	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41135	No
46	GOM_NL__2PRFIN20100111_200613_000000472085_00500_41135_9646.N1	11-JAN-2010 20:06:13	Twi_and_stray	46.500	104	27Bet Lib	2.6140	13100.	93	41135	No
47	GOM_NL__2PRFIN20100111_200820_000000432085_00500_41135_9647.N1	11-JAN-2010 20:08:20	Twi_and_stray	42.500	80	7Del Sco	2.3160	30000.	85	41135	No
48	GOM_NL__2PRFIN20100111_201348_000000382085_00500_41135_9648.N1	11-JAN-2010 20:13:48	Dark	37.500	131	Gam Lup	2.8000	26000.	75	41135	No
49	GOM_NL__2PRFIN20100111_201657_000000422085_00500_41135_9649.N1	11-JAN-2010 20:16:57	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41135	No
50	GOM_NL__2PRFIN20100111_201851_000000432085_00500_41135_9634.N1	11-JAN-2010 20:18:51	Dark	43.000	95	Zet Cen	2.5450	26000.	86	41135	No
51	GOM_NL__2PRFIN20100111_202036_000000412085_00501_41136_9635.N1	11-JAN-2010 20:20:36	Dark	40.500	10	Bet Cen	0.61000	28000.	81	41136	No
52	GOM_NL__2PRFIN20100111_202304_000000432085_00501_41136_9636.N1	11-JAN-2010 20:23:04	Dark	42.500	20	Bet Cru	1.2530	30000.	85	41136	No
53	GOM_NL__2PRFIN20100111_202857_000000472085_00501_41136_9637.N1	11-JAN-2010 20:28:57	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	41136	No
54	GOM_NL__2PRFIN20100111_203037_000000402085_00501_41136_9638.N1	11-JAN-2010 20:30:37	Dark	40.000	71	lot Car	2.2460	7700.0	80	41136	No
55	GOM_NL__2PRFIN20100111_203157_000000472085_00501_41136_9639.N1	11-JAN-2010 20:31:57	Dark	47.000	41	Eps Car	1.8600	4100.0	94	41136	No
56	GOM_NL__2PRFIN20100111_203724_000000442085_00501_41136_9640.N1	11-JAN-2010 20:37:24	Dark	43.500	70	Zet Pup	2.2460	39000.	87	41136	No
57	GOM_NL__2PRFIN20100111_203910_000000462085_00501_41136_9641.N1	11-JAN-2010 20:39:10	Straylight	46.000	117	Pi Pup	2.7060	3800.0	92	41136	No
58	GOM_NL__2PRFIN20100111_204146_000000422085_00501_41136_9642.N1	11-JAN-2010 20:41:46	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	41136	No
59	GOM_NL__2PRFIN20100111_204313_000000422085_00501_41136_9643.N1	11-JAN-2010 20:43:13	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	41136	No
60	GOM_NL__2PRFIN20100111_204529_000000452085_00501_41136_9644.N1	11-JAN-2010 20:45:29	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	41136	No
61	GOM_NL__2PRFIN20100111_205242_000000522085_00501_41136_9645.N1	11-JAN-2010 20:52:42	Twi_and_stray	51.500	14	58Alp Ori	0.87000	3000.0	103	41136	No
62	GOM_NL__2PRFIN20100111_205521_000000442085_00501_41136_9646.N1	11-JAN-2010 20:55:21	Twi_and_stray	44.000	44	24Gam Gem	1.9280	11000.	88	41136	No
63	GOM_NL__2PRFIN20100111_205704_000000542085_00501_41136_9647.N1	11-JAN-2010 20:57:04	Bright	54.000	151	13Mu Gem	2.8900	3000.0	108	41136	No
64	GOM_NL__2PRFIN20100111_210110_000000372085_00501_41136_9648.N1	11-JAN-2010 21:01:10	Bright	36.500	107	37The Aur	2.6490	11000.	73	41136	No
65	GOM_NL__2PRFIN20100111_210322_000000382085_00501_41136_9649.N1	11-JAN-2010 21:03:22	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	41136	No
66	GOM_NL__2PRFIN20100111_211552_000000342085_00501_41136_9650.N1	11-JAN-2010 21:15:52	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	41136	No
67	GOM_NL__2PRFIN20100111_211959_000000402085_00501_41136_9651.N1	11-JAN-2010 21:19:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	41136	No
68	GOM_NL__2PRFIN20100111_212412_000000522085_00501_41136_9652.N1	11-JAN-2010 21:24:12	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	41136	No
69	GOM_NL__2PRFIN20100111_213254_000000532085_00501_41136_9653.N1	11-JAN-2010 21:32:54	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	41136	No
70	GOM_NL__2PRFIN20100111_213504_000000602085_00501_41136_9654.N1	11-JAN-2010 21:35:04	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41136	No
71	GOM_NL__2PRFIN20100111_214115_000000592085_00501_41136_9655.N1	11-JAN-2010 21:41:15	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	41136	No
72	GOM_NL__2PRFIN20100111_214649_000000472085_00501_41136_9656.N1	11-JAN-2010 21:46:49	Twi_and_stray	47.000	104	27Bet Lib	2.6140	13100.	94	41136	No
73	GOM_NL__2PRFIN20100111_214856_000000452085_00501_41136_9657.N1	11-JAN-2010 21:48:56	Twi_and_stray	45.000	80	7Del Sco	2.3160	30000.	90	41136	No
74	GOM_NL__2PRFIN20100111_215425_000000402085_00501_41136_9658.N1	11-JAN-2010 21:54:25	Dark	39.500	131	Gam Lup	2.8000	26000.	79	41136	No
75	GOM_NL__2PRFIN20100111_215734_000000422085_00501_41136_9659.N1	11-JAN-2010 21:57:34	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41136	No
76	GOM_NL__2PRFIN20100111_215928_000000432086_00501_41136_9643.N1	11-JAN-2010 21:59:28	Dark	43.000	95	Zet Cen	2.5450	26000.	86	41136	No
77	GOM_NL__2PRFIN20100111_220113_000000502086_00001_41137_9644.N1	11-JAN-2010 22:01:13	Dark	50.000	10	Bet Cen	0.61000	28000.	100	41137	No
78	GOM_NL__2PRFIN20100111_220754_000000392086_00001_41137_9645.N1	11-JAN-2010 22:07:54	Dark	38.500	124	The Car	2.7640	30000.	77	41137	No
79	GOM_NL__2PRFIN20100111_220934_000000472086_00001_41137_9646.N1	11-JAN-2010 22:09:34	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	41137	No
80	GOM_NL__2PRFIN20100111_221113_000000402086_00001_41137_9647.N1	11-JAN-2010 22:11:13	Dark	40.000	71	lot Car	2.2460	7700.0	80	41137	No
81	GOM_NL__2PRFIN20100111_221233_000000442086_00001_41137_9648.N1	11-JAN-2010 22:12:33	Dark	43.500	41	Eps Car	1.8600	4100.0	87	41137	No
82	GOM_NL__2PRFIN20100111_221801_000000442086_00001_41137_9649.N1	11-JAN-2010 22:18:01	Dark	44.000	70	Zet Pup	2.2460	39000.	88	41137	No
83	GOM_NL__2PRFIN20100111_221946_000000422086_00001_41137_9650.N1	11-JAN-2010 22:19:46	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	41137	No
84	GOM_NL__2PRFIN20100111_222222_000000432086_00001_41137_9651.N1	11-JAN-2010 22:22:22	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	41137	No
85	GOM_NL__2PRFIN20100111_222349_000000412086_00001_41137_9652.N1	11-JAN-2010 22:23:49	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	41137	No
86	GOM_NL__2PRFIN20100111_222605_000000422086_00001_41137_9653.N1	11-JAN-2010 22:26:05	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	41137	No
87	GOM_NL__2PRFIN20100111_223318_000000522086_00001_41137_9654.N1	11-JAN-2010 22:33:18	Twi_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	41137	No
88	GOM_NL__2PRFIN20100111_223739_000000452086_00001_41137_9655.N1	11-JAN-2010 22:37:39	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	41137	No
89	GOM_NL__2PRFIN20100111_224146_000000382086_00001_41137_9656.N1	11-JAN-2010 22:41:46	Bright	37.500	107	37The Aur	2.6490	11000.	75	41137	No
90	GOM_NL__2PRFIN20100111_224358_000000362086_00001_41137_9657.N1	11-JAN-2010 22:43:58	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	41137	No
91	GOM_NL__2PRFIN20100111_225628_000000322086_00001_41137_9658.N1	11-JAN-2010 22:56:28	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	41137	No
92	GOM_NL__2PRFIN20100111_230035_000000402086_00001_41137_9659.N1	11-JAN-2010 23:00:35	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	41137	No
93	GOM_NL__2PRFIN20100111_230447_000000542086_00001_41137_9660.N1	11-JAN-2010 23:04:47	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	41137	No
94	GOM_NL__2PRFIN20100111_231330_000000532086_00001_41137_9661.N1	11-JAN-2010 23:13:30	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	41137	No
95	GOM_NL__2PRFIN20100111_231540_000000602086_00001_41137_9662.N1	11-JAN-2010 23:15:40	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	41137	No
96	GOM_NL__2PRFIN20100111_232151_000000432086_00001_41137_9663.N1	11-JAN-2010 23:21:51	Bright	42.500	102	24Alp Ser	2.6000	4250.0	85	41137	No
97	GOM_NL__2PRFIN20100111_232401_000000372086_00001_41137_9664.N1	11-JAN-2010 23:24:01	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	41137	No
98	GOM_NL__2PRFIN20100111_232726_000000482086_00001_41137_9665.N1	11-JAN-2010 23:27:26	Twi_and_stray	47.500	104	27Bet Lib	2.6140	13100.	95	41137	No
99	GOM_NL__2PRFIN20100111_232933_000000432086_00001_41137_9666.N1	11-JAN-2010 23:29:33	Twi_and_stray	43.000	80	7Del Sco	2.3160	30000.	86	41137	No
100	GOM_NL__2PRFIN20100111_233501_000000402086_00001_41137_9667.N1	11-JAN-2010 23:35:01	Dark	40.000	131	Gam Lup	2.8000	26000.	80	41137	No
101	GOM_NL__2PRFIN20100111_234004_000000432086_00001_41137_9652.N1	11-JAN-2010 23:40:04	Dark	42.500	95	Zet Cen	2.5450	26000.	85	41137	No

102	GOM_NL__2PRFIN20100111_234149_000000482086_00002_41138_9653.N1	11-JAN-2010 23:41:49	Dark	47.500	10	Bet Cen	0.61000	28000.	95	41138	No
103	GOM_NL__2PRFIN20100111_234830_000000402086_00002_41138_9654.N1	11-JAN-2010 23:48:30	Dark	39.500	124	The Car	2.7640	30000.	79	41138	No
104	GOM_NL__2PRFIN20100111_235010_000000512086_00002_41138_9655.N1	11-JAN-2010 23:50:10	Dark	51.000	113	Mu Vel	2.6920	5000.0	102	41138	No
105	GOM_NL__2PRFIN20100111_235149_000000402086_00002_41138_9656.N1	11-JAN-2010 23:51:49	Dark	40.000	71	lot Car	2.2460	7700.0	80	41138	No
106	GOM_NL__2PRFIN20100111_235309_000000502086_00002_41138_9657.N1	11-JAN-2010 23:53:09	Dark	50.000	41	Eps Car	1.8600	4100.0	100	41138	No
107	GOM_NL__2PRFIN20100111_235837_000000452086_00002_41138_9658.N1	11-JAN-2010 23:58:37	Dark	45.000	70	Zet Pup	2.2460	39000.	90	41138	No

### 3. Quality information per product

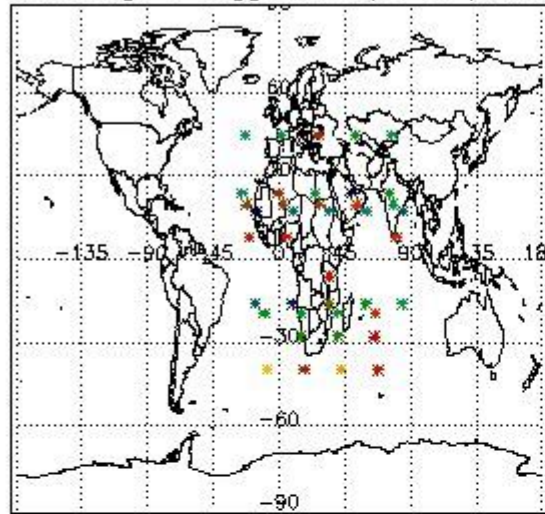
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

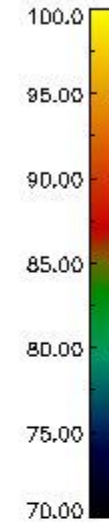
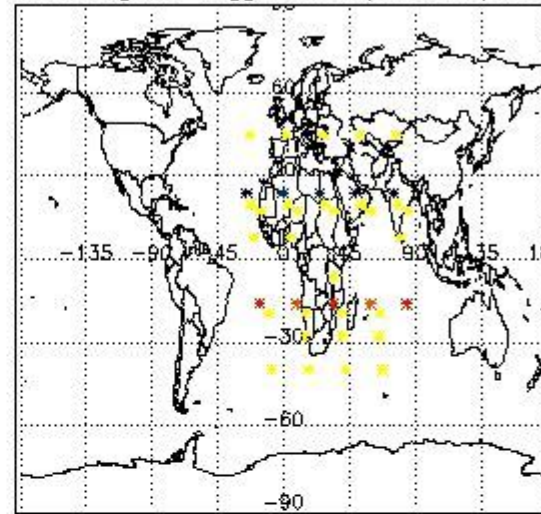


#### 3.2 Plot quality information per product (world map)

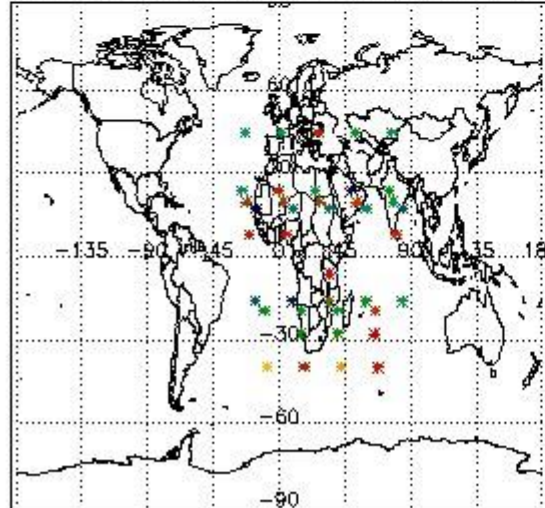
Percentage of flagged data per O3 profile



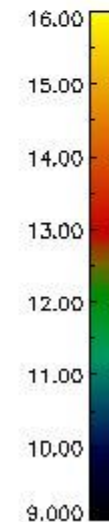
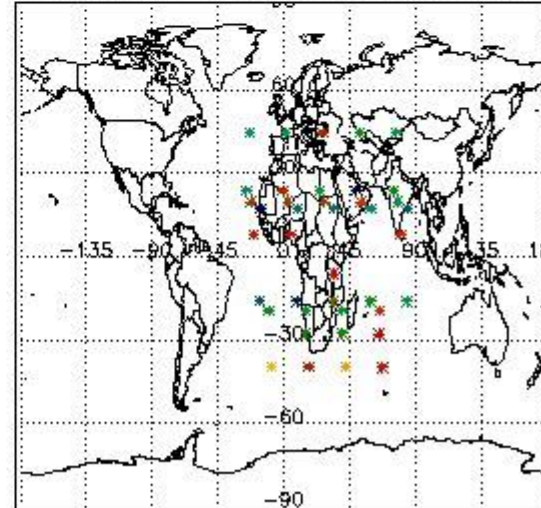
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

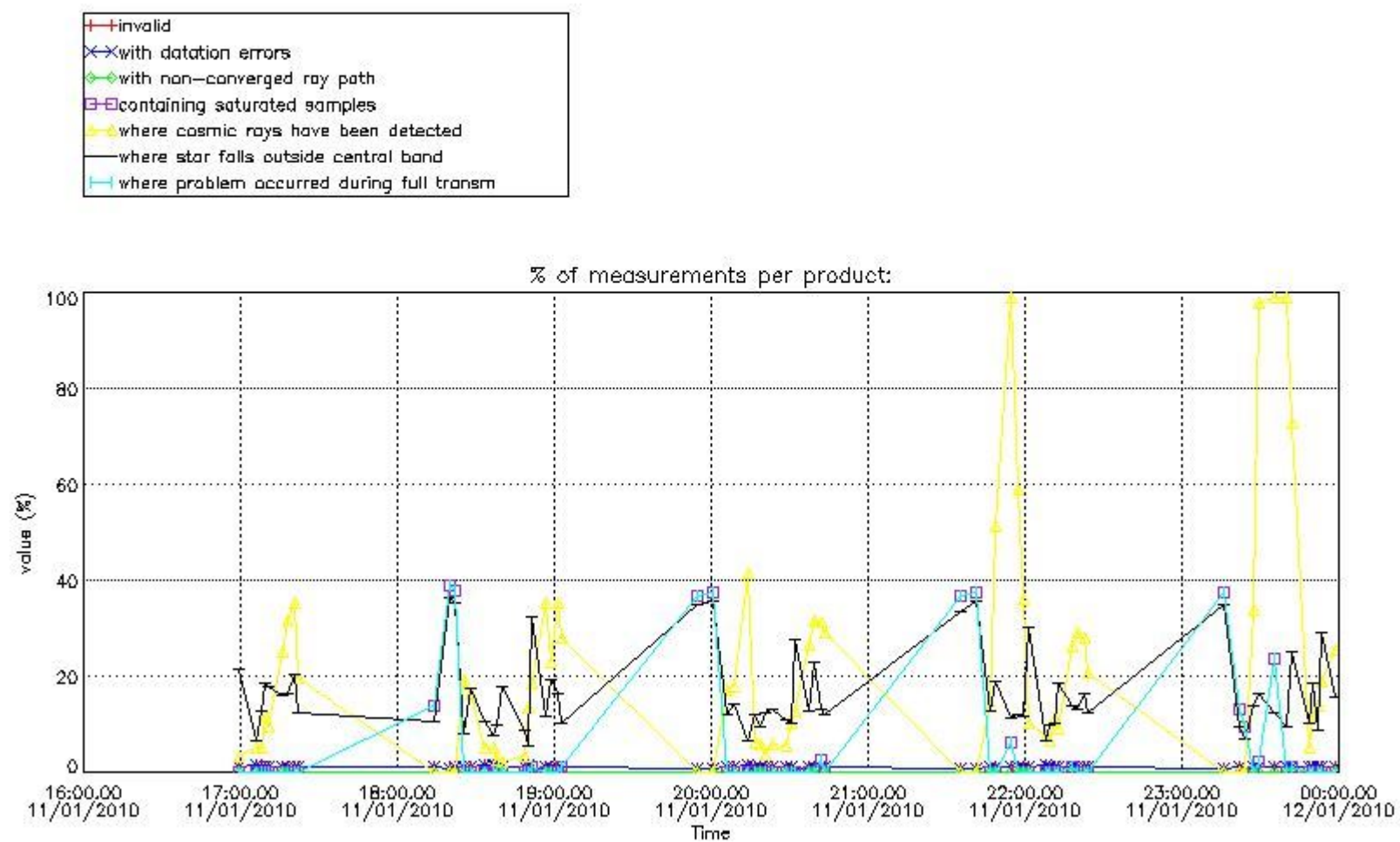


#### 4. Level 1 quality information per product

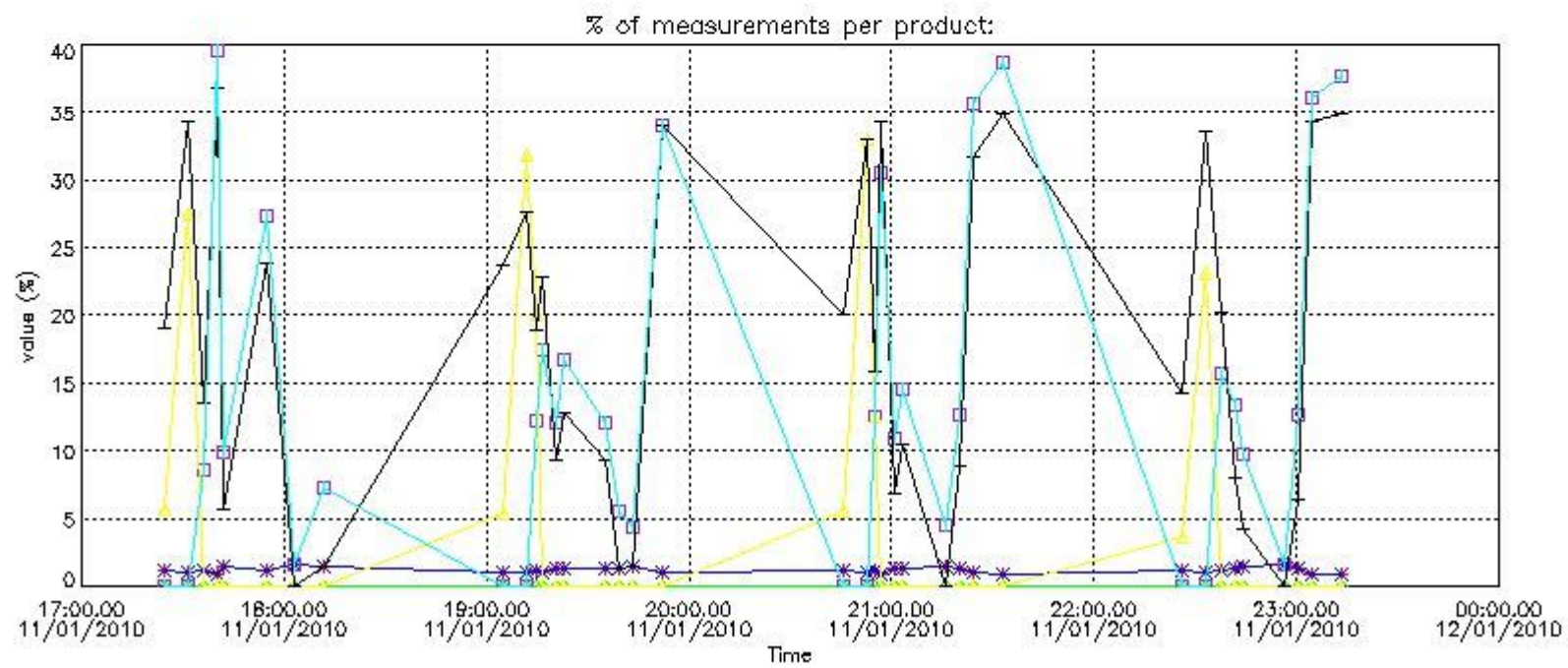
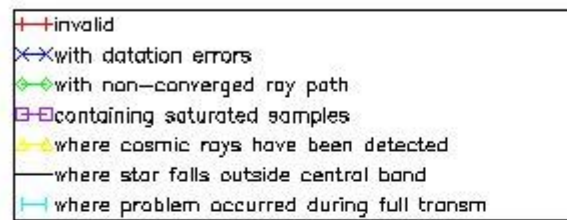
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



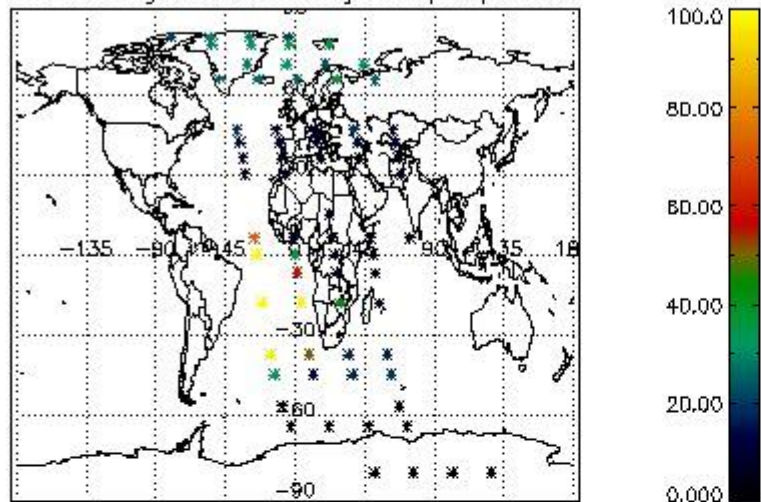
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



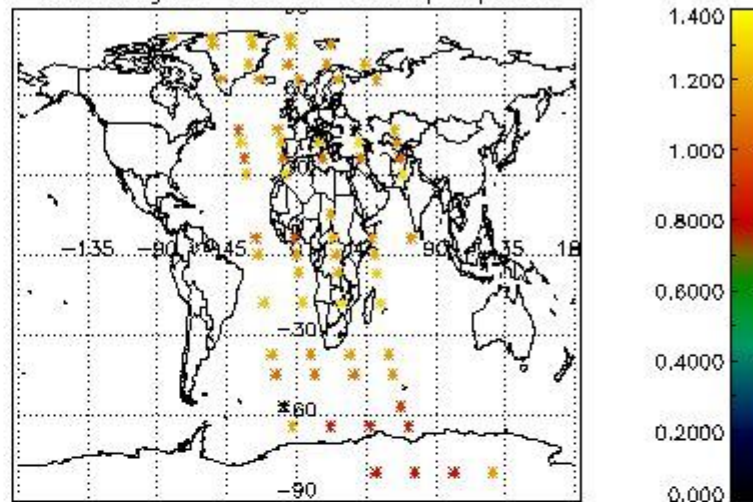
4.2 Plot quality information per product coming from level 1b processing (world map)

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

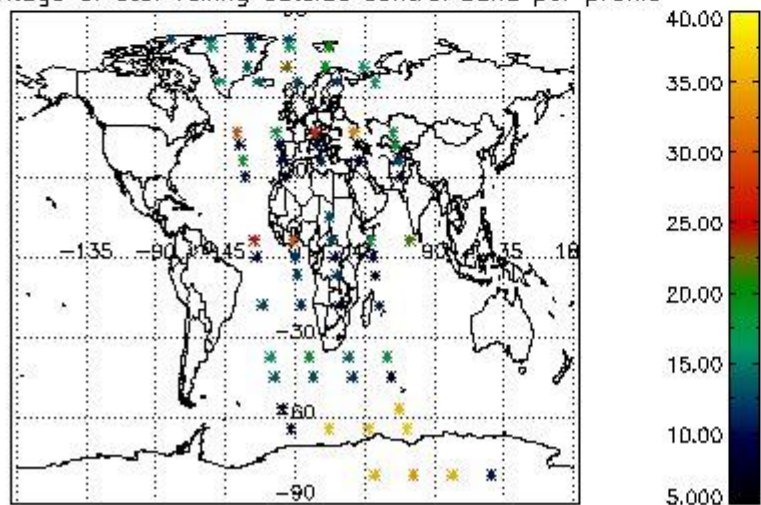
Percentage of cosmic ray hits per profile



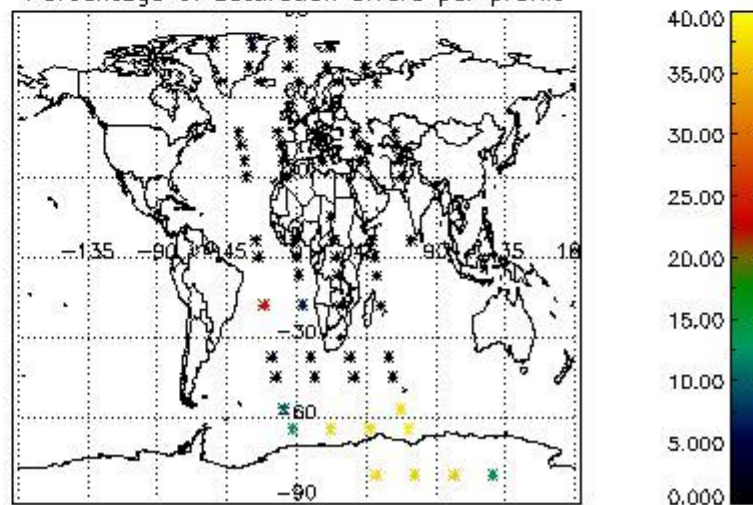
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



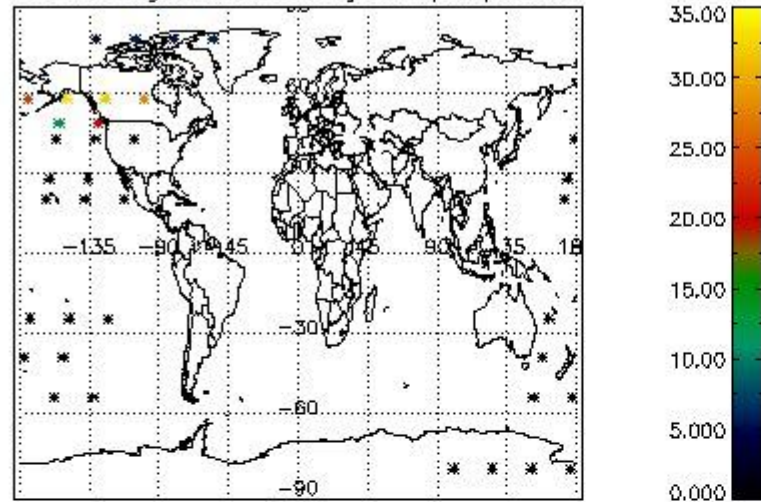
Percentage of saturation errors per profile



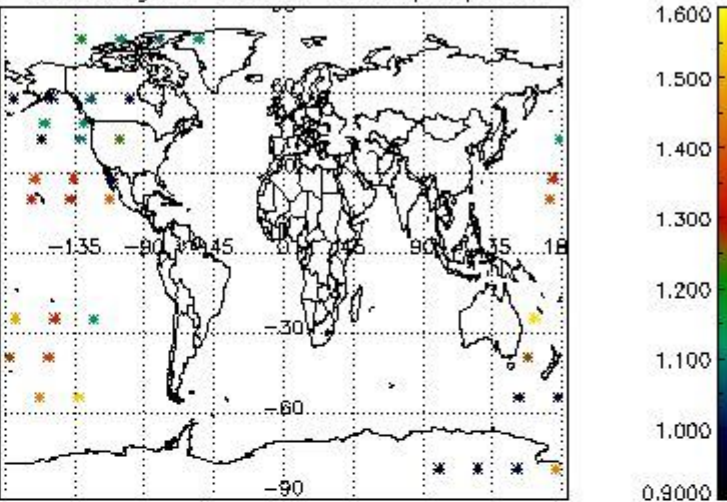
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



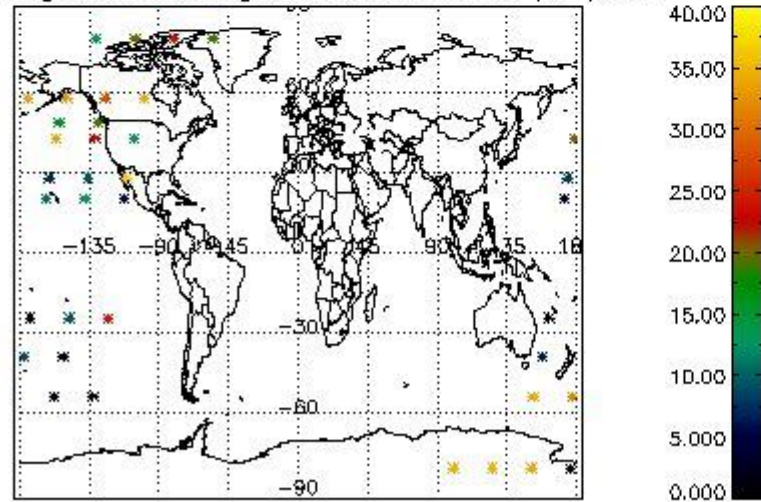
Percentage of cosmic ray hits per profile



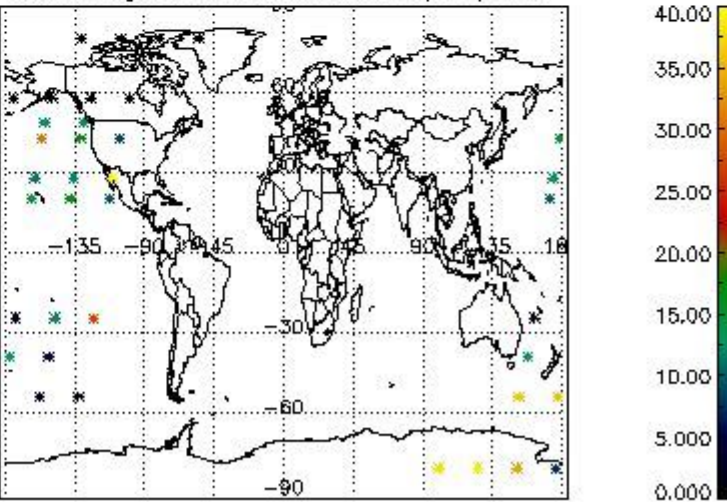
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 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

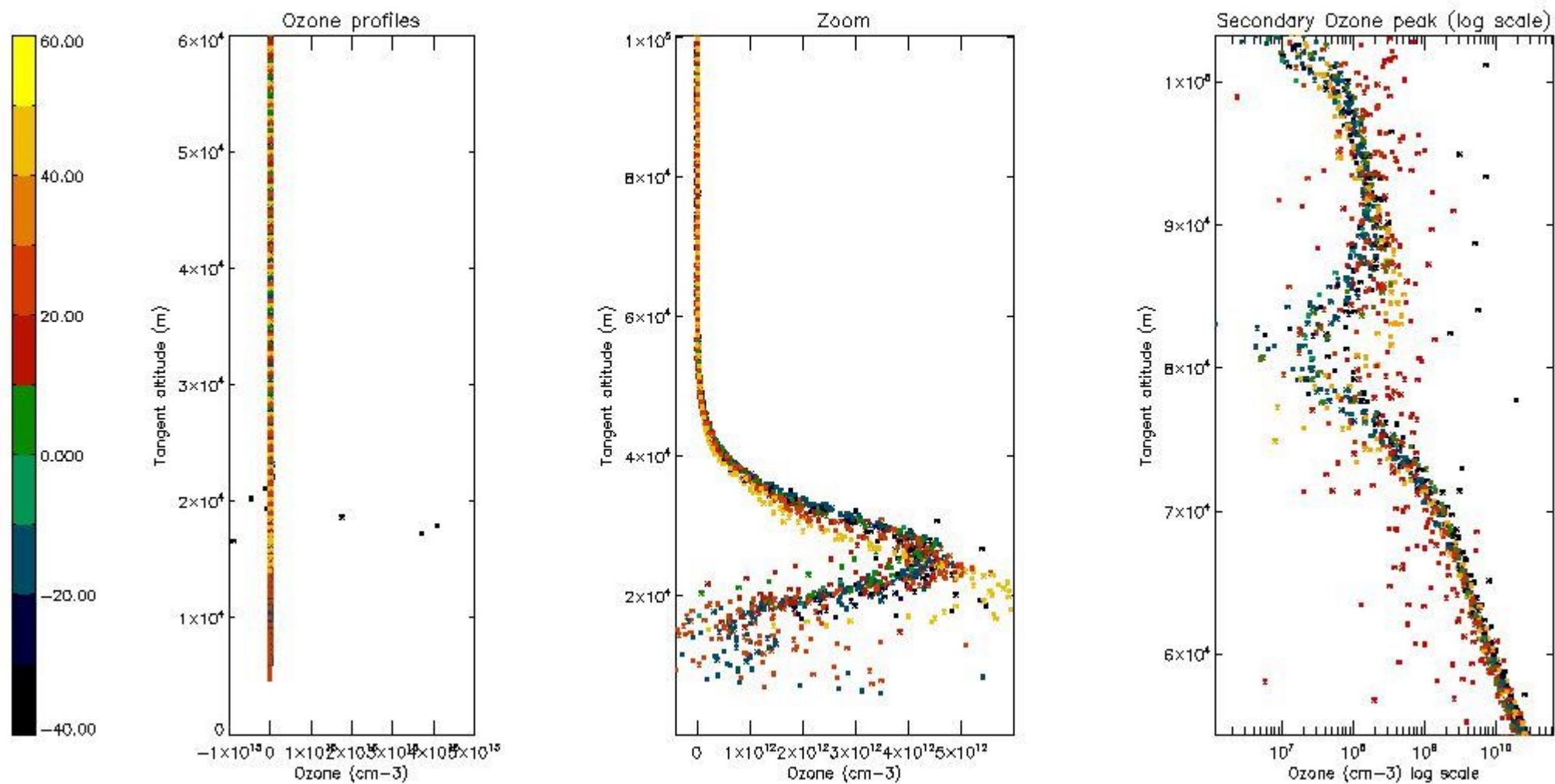
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	19

STD < 10	16
STD < 5	10

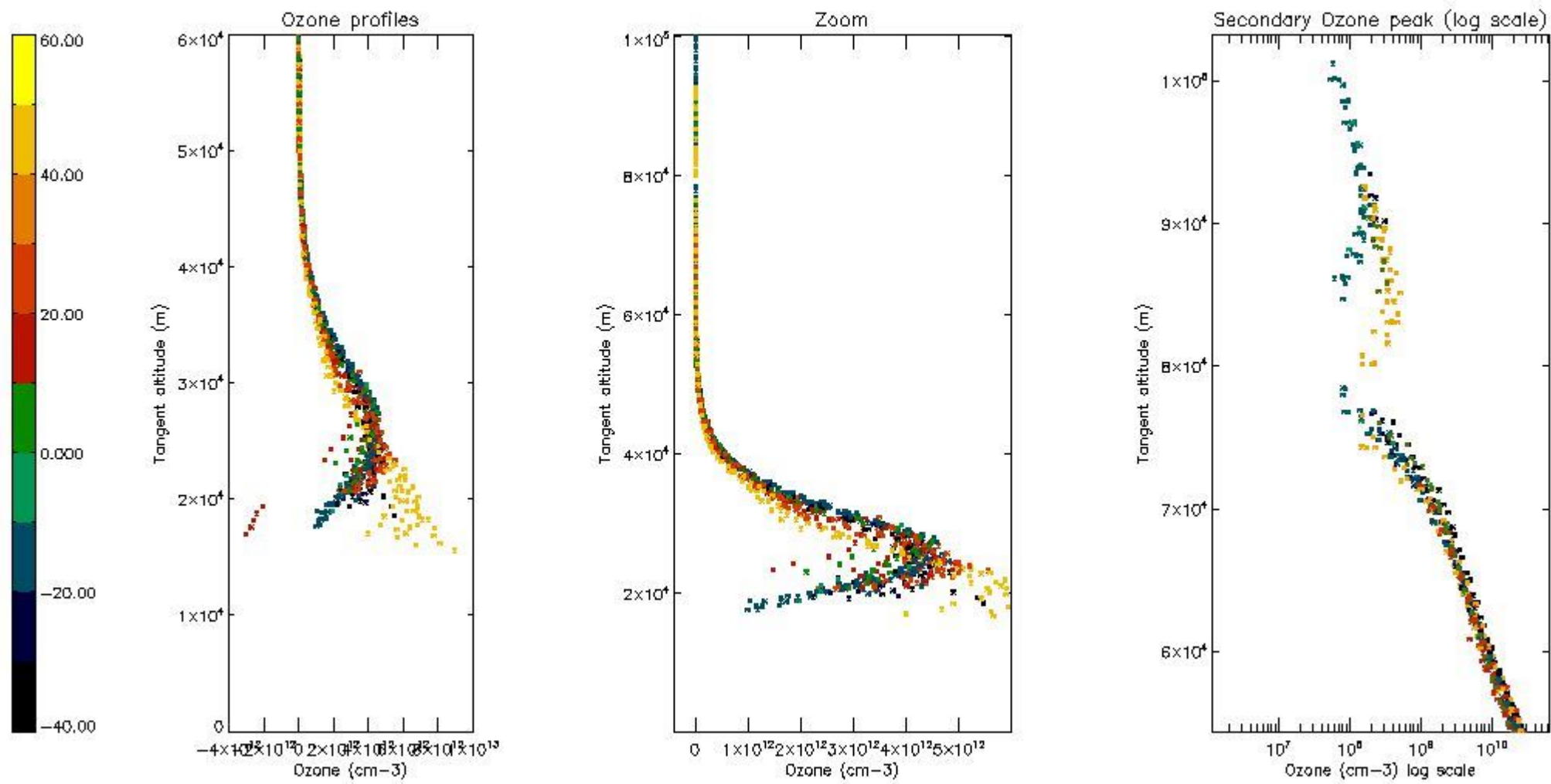
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



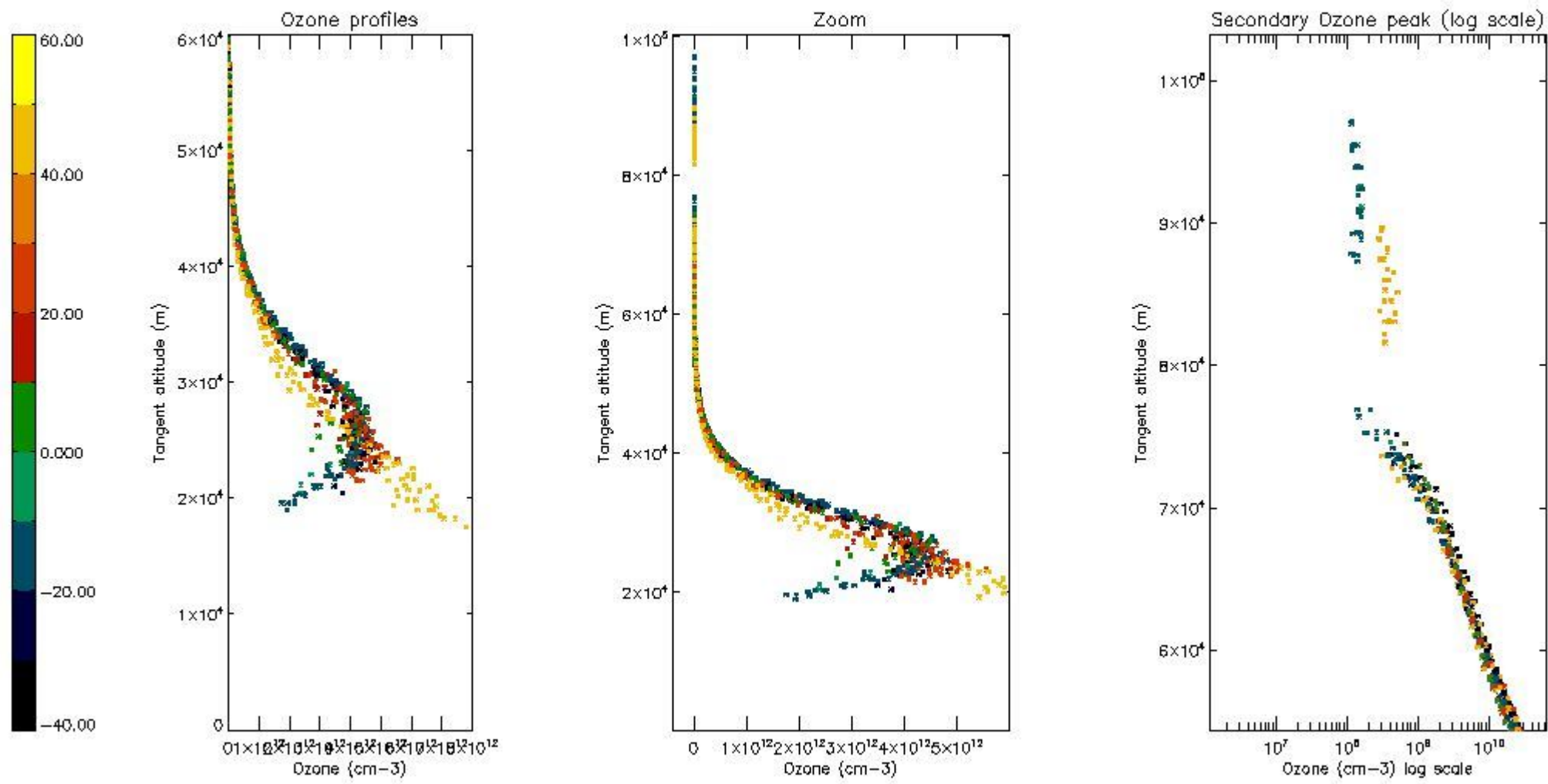
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



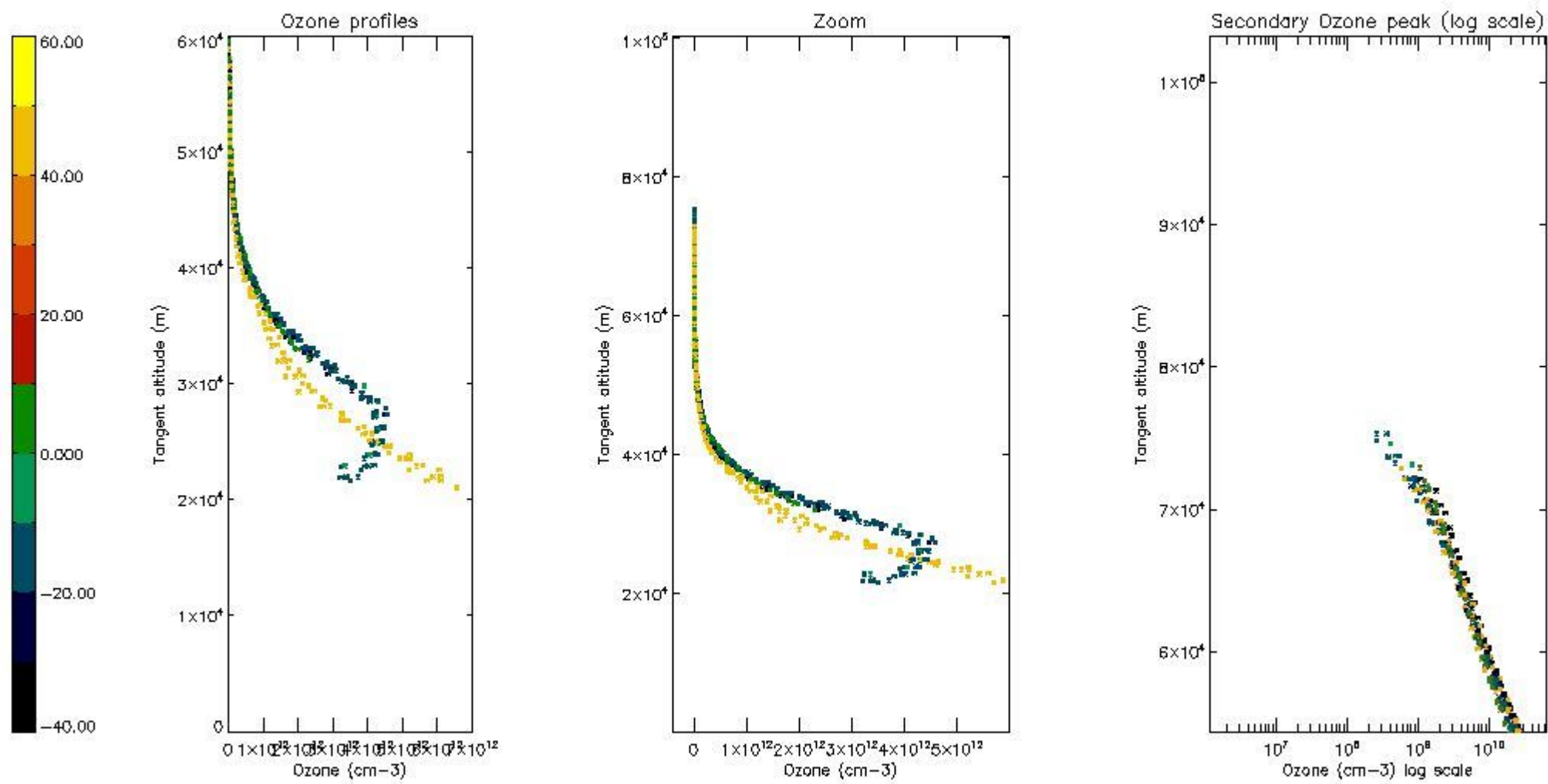
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



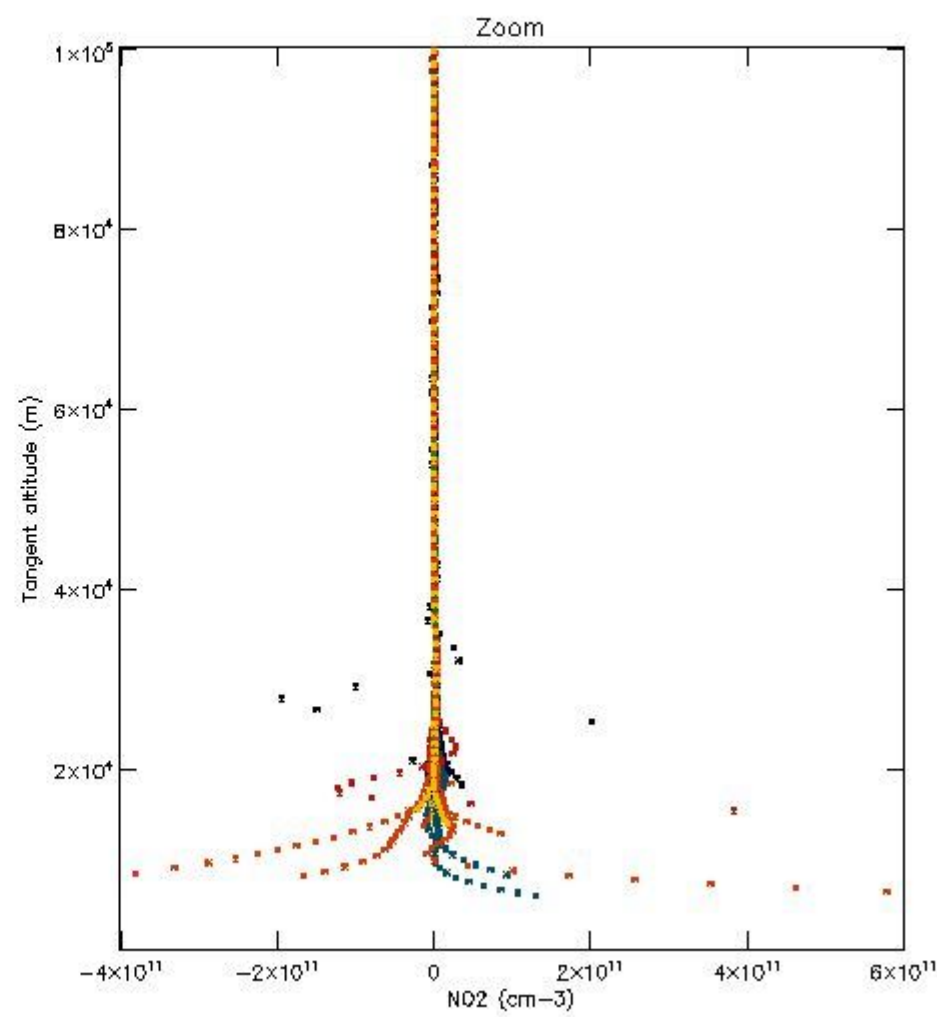
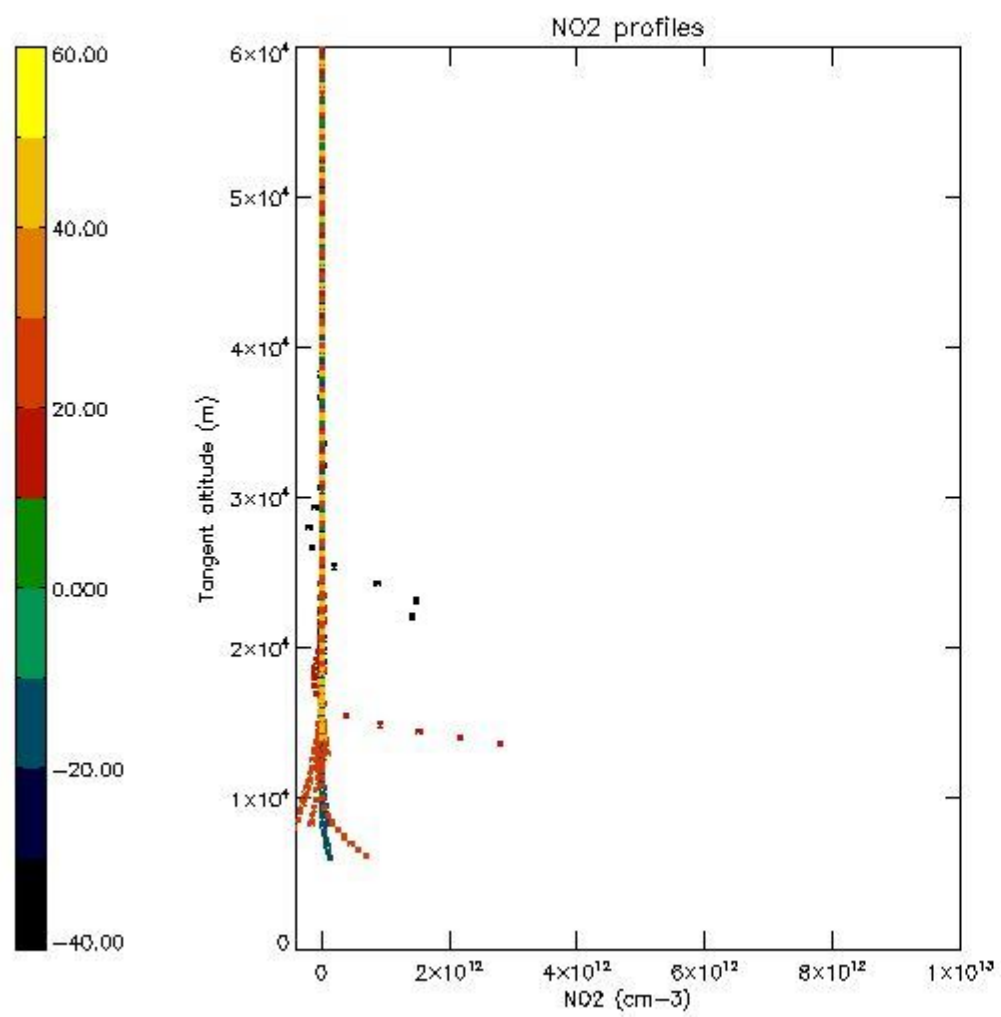
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



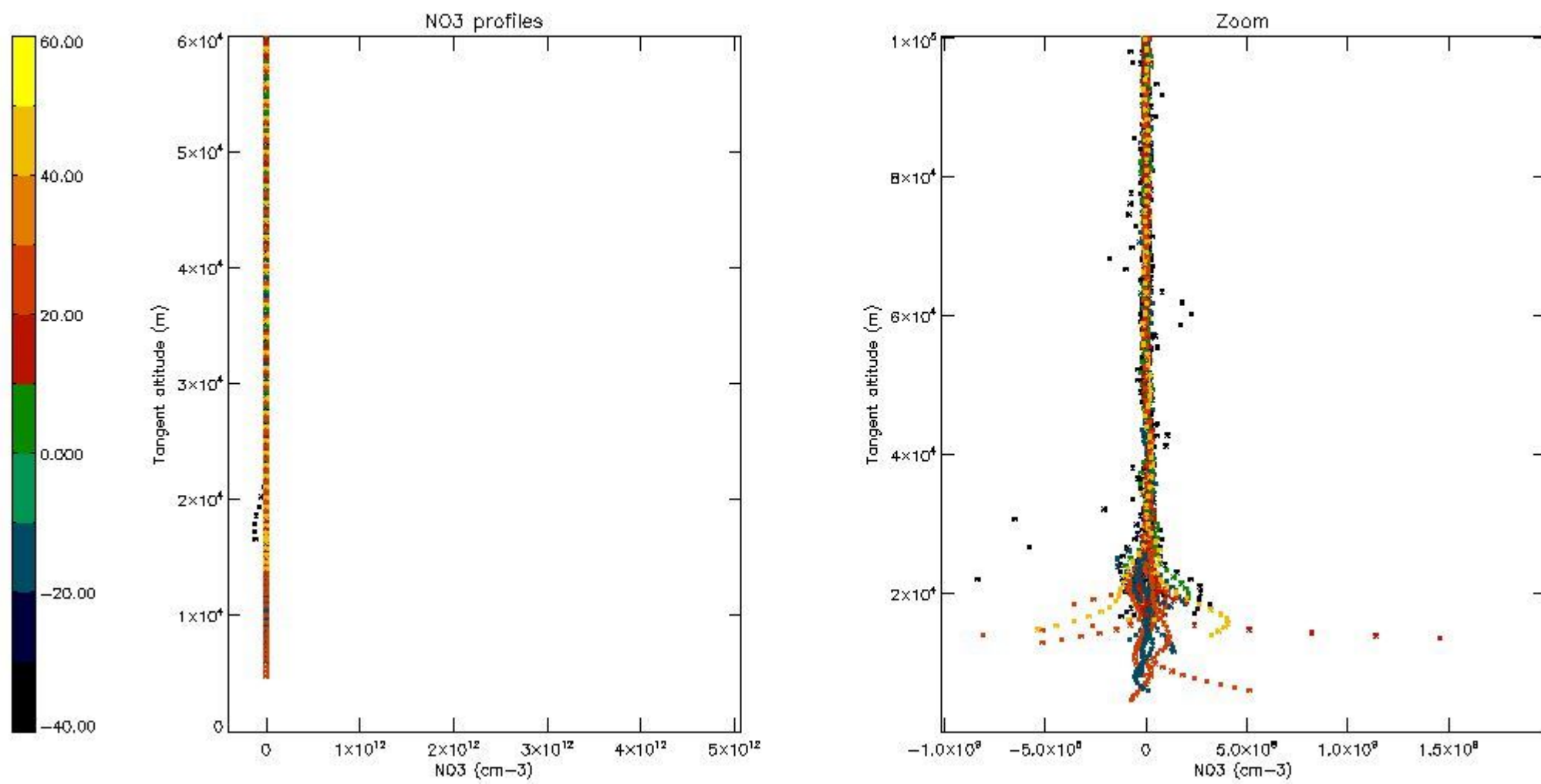
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



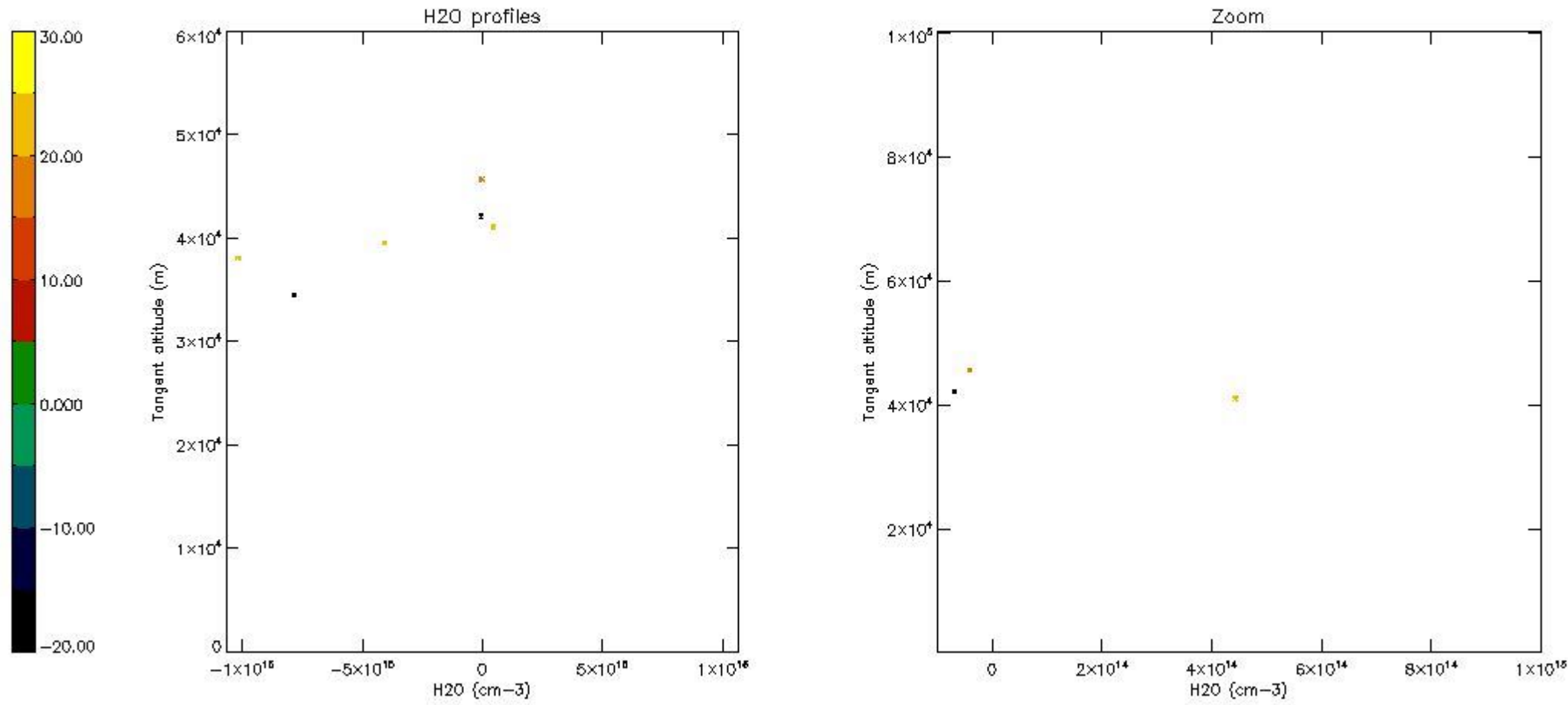
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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.

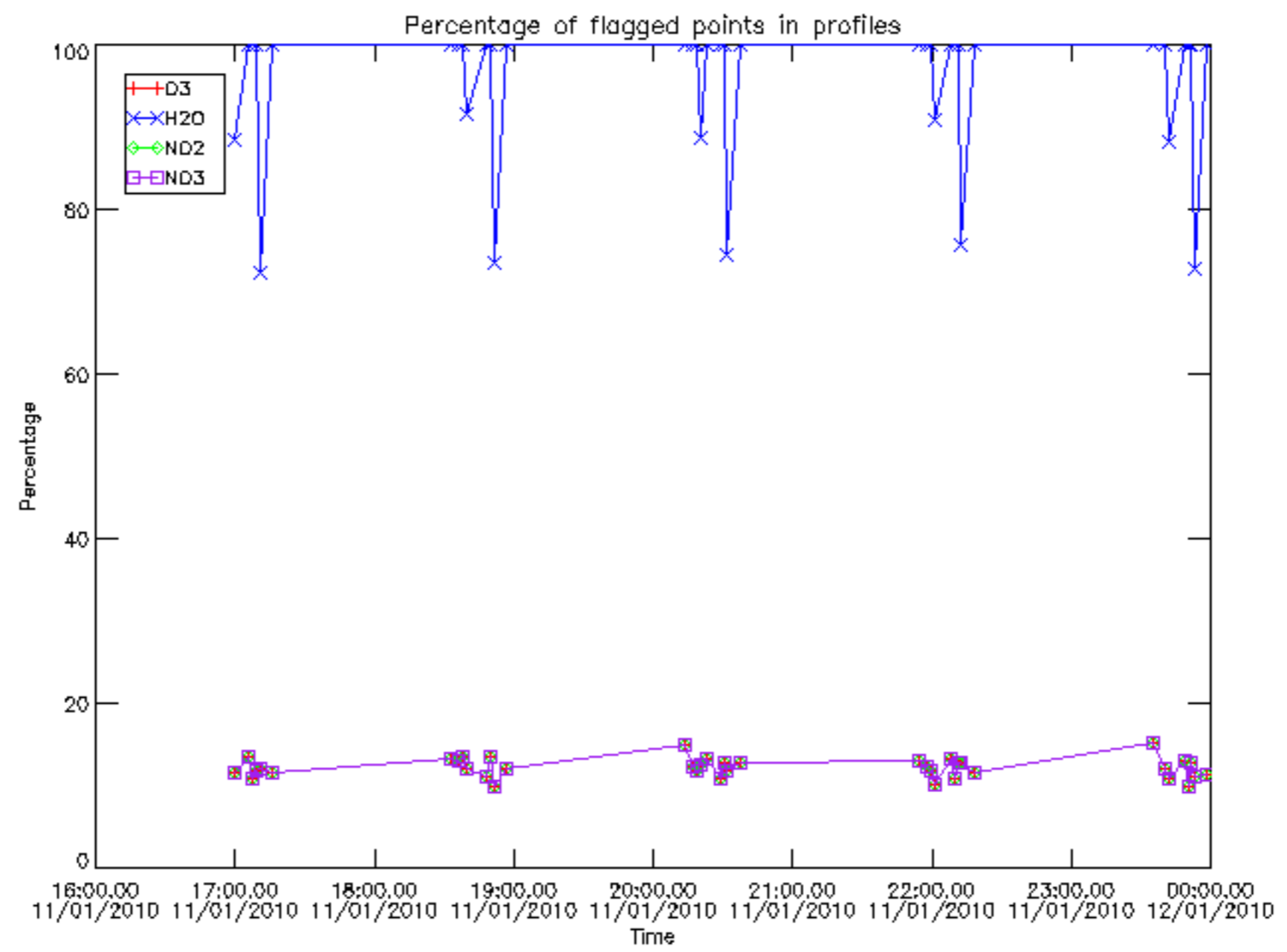


## 6. Auxiliary Data Files used for the production reported in section 2

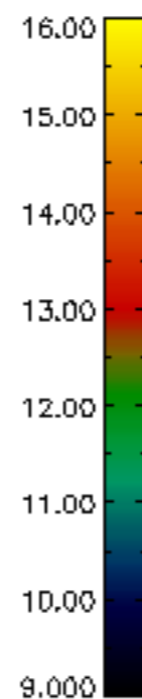
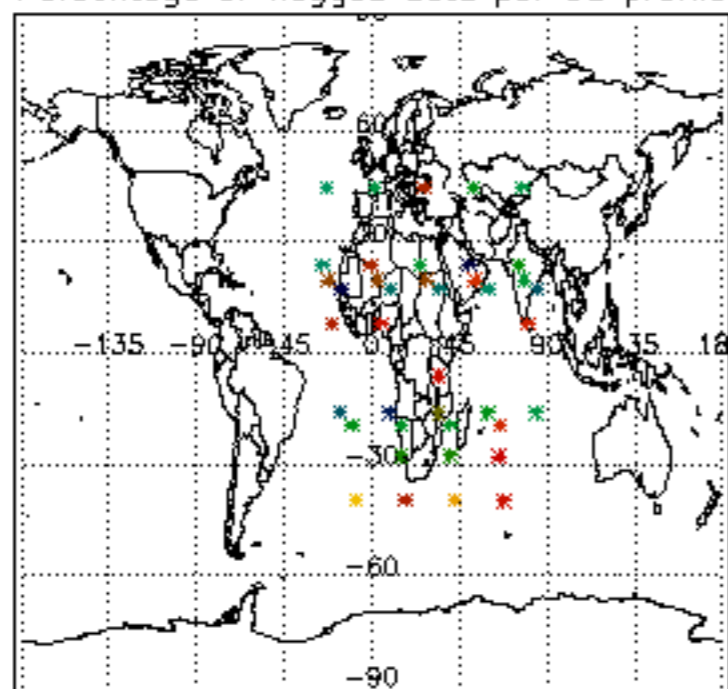
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-JAN-2010 16:59:24
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-JAN-2010 16:59:24
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-JAN-2010 16:59:24

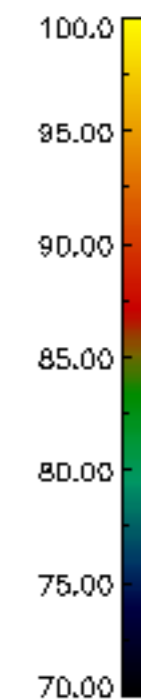
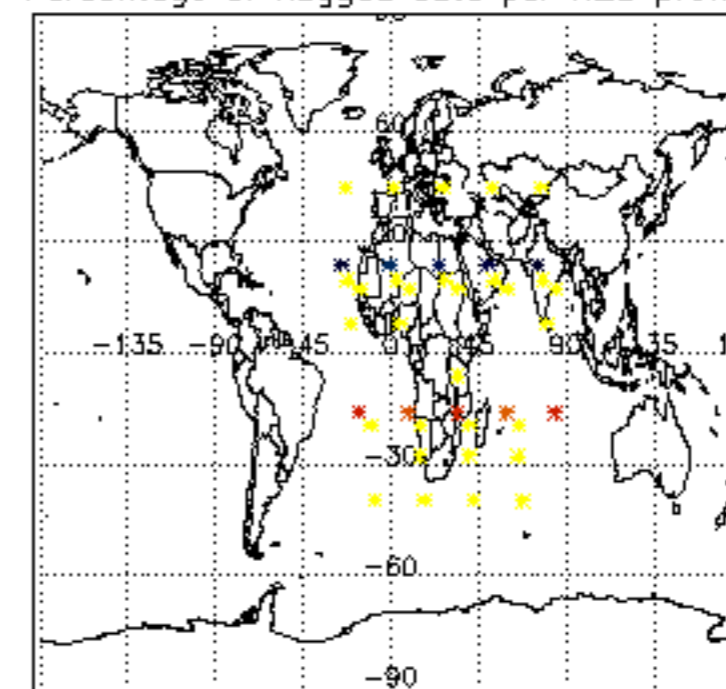




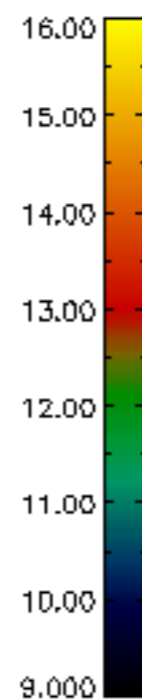
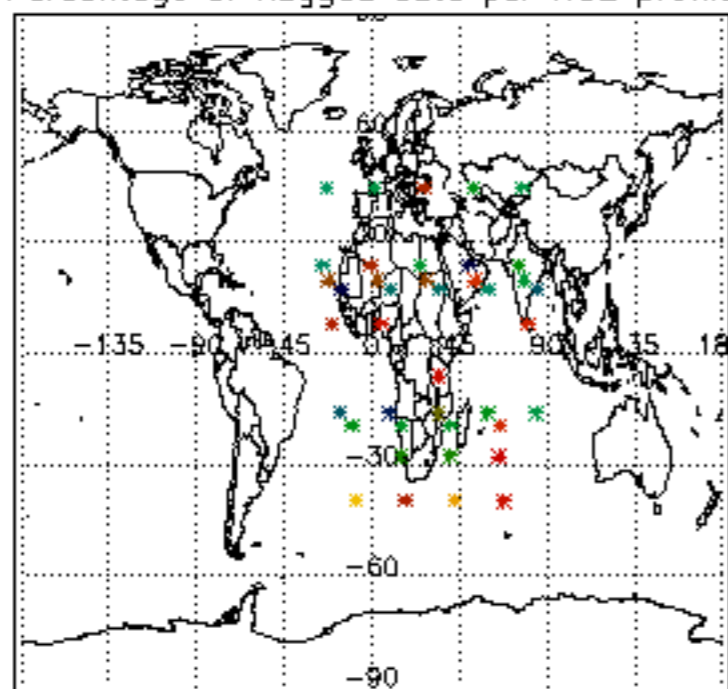
Percentage of flagged data per D3 profile



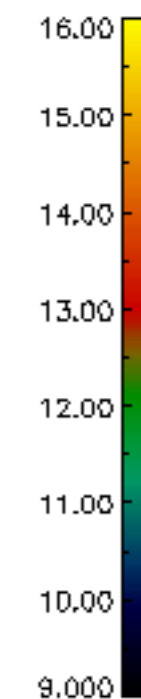
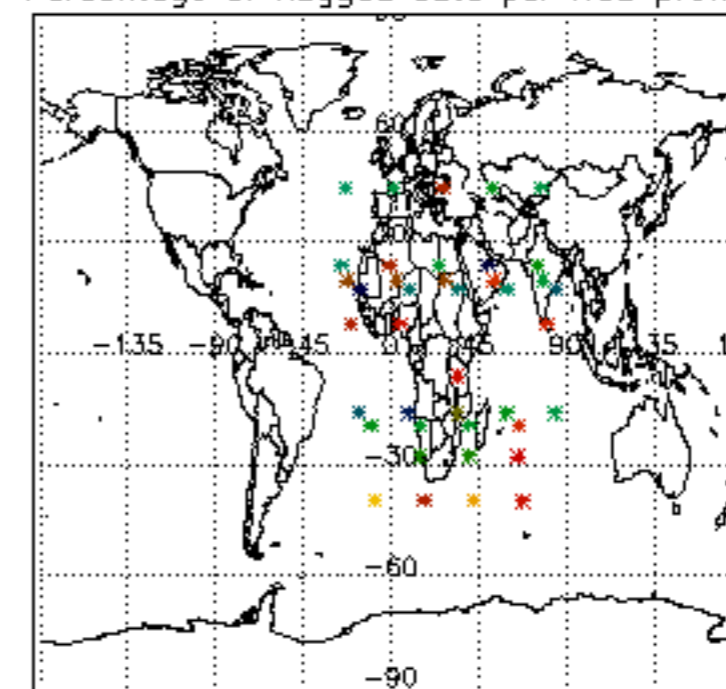
Percentage of flagged data per H2O profile

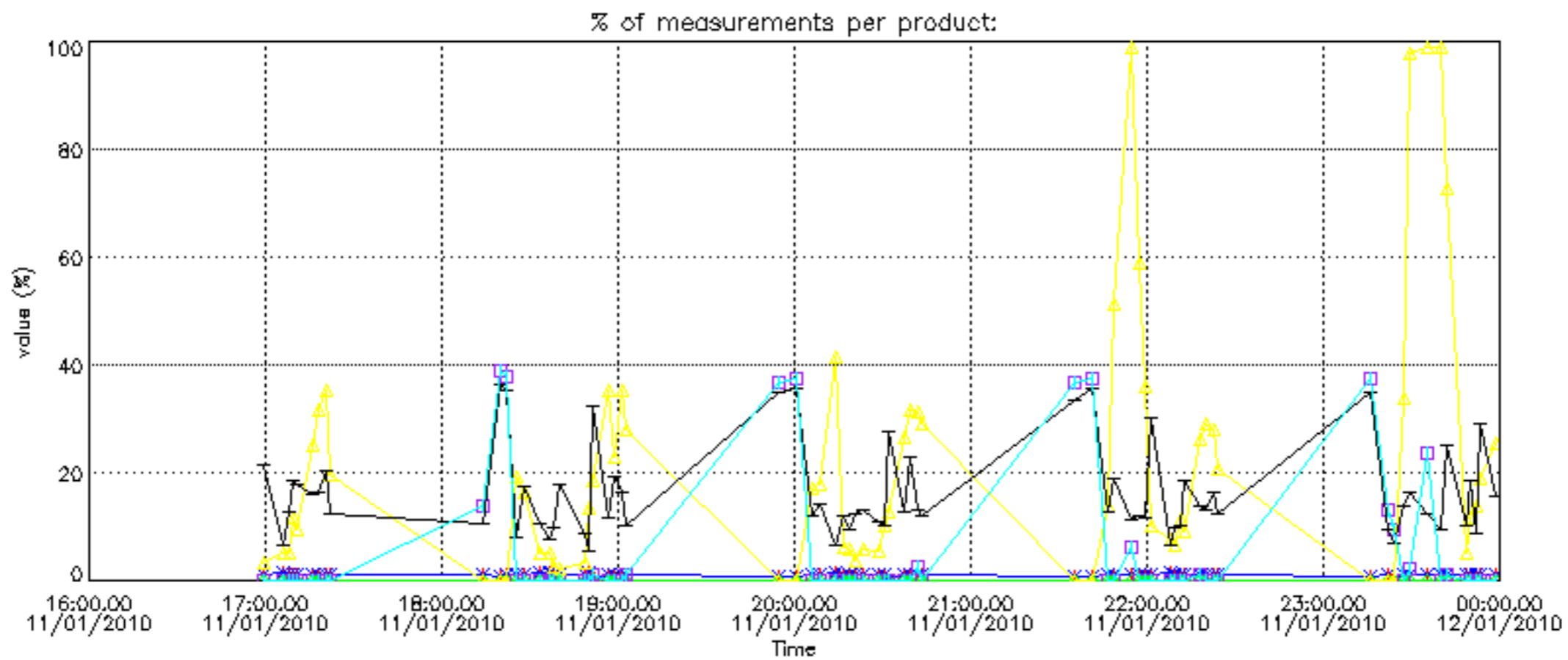


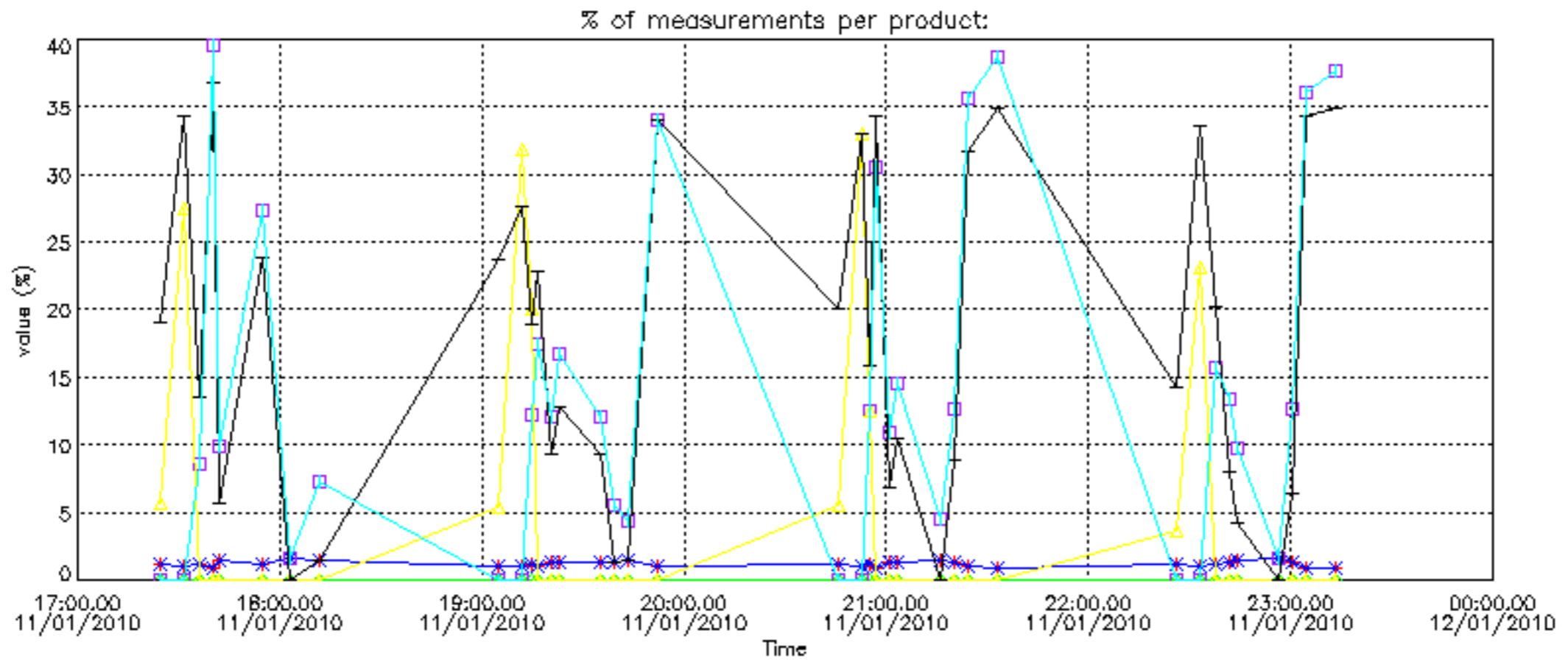
Percentage of flagged data per NO2 profile



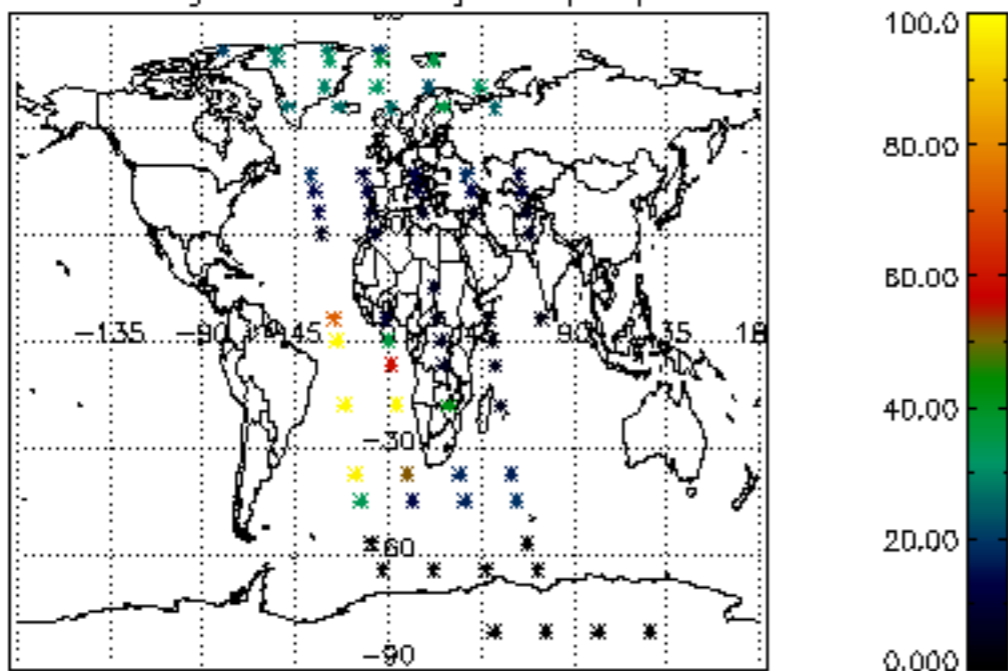
Percentage of flagged data per NO3 profile



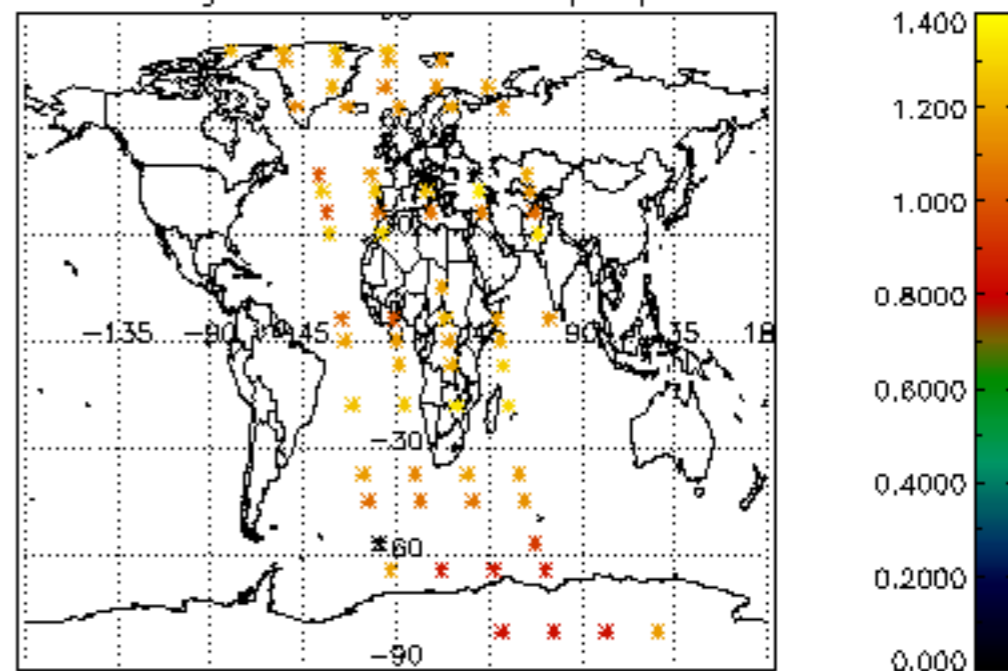




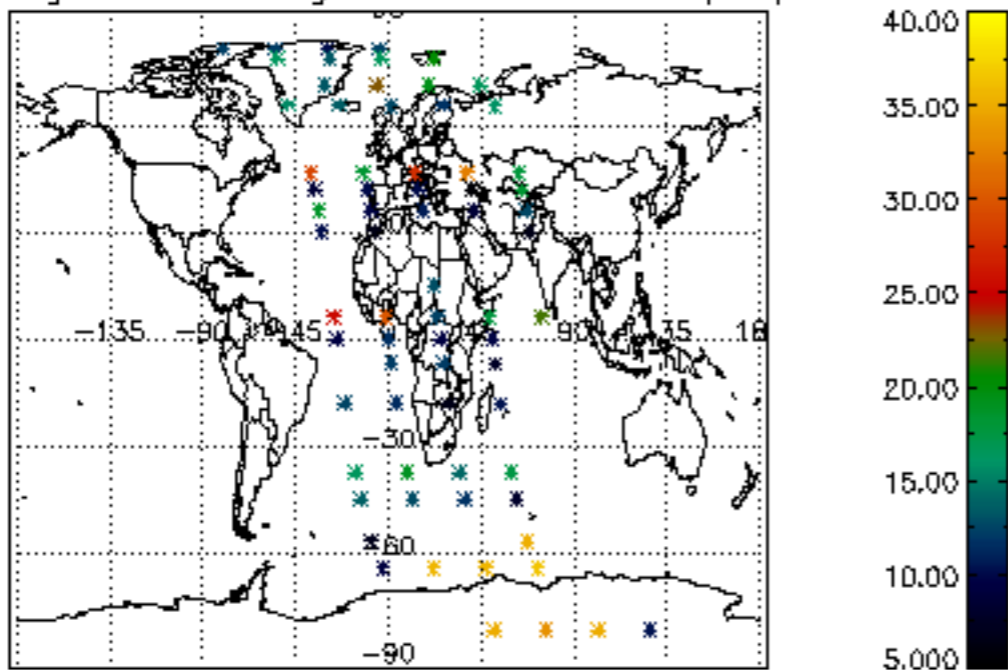
Percentage of cosmic ray hits per profile



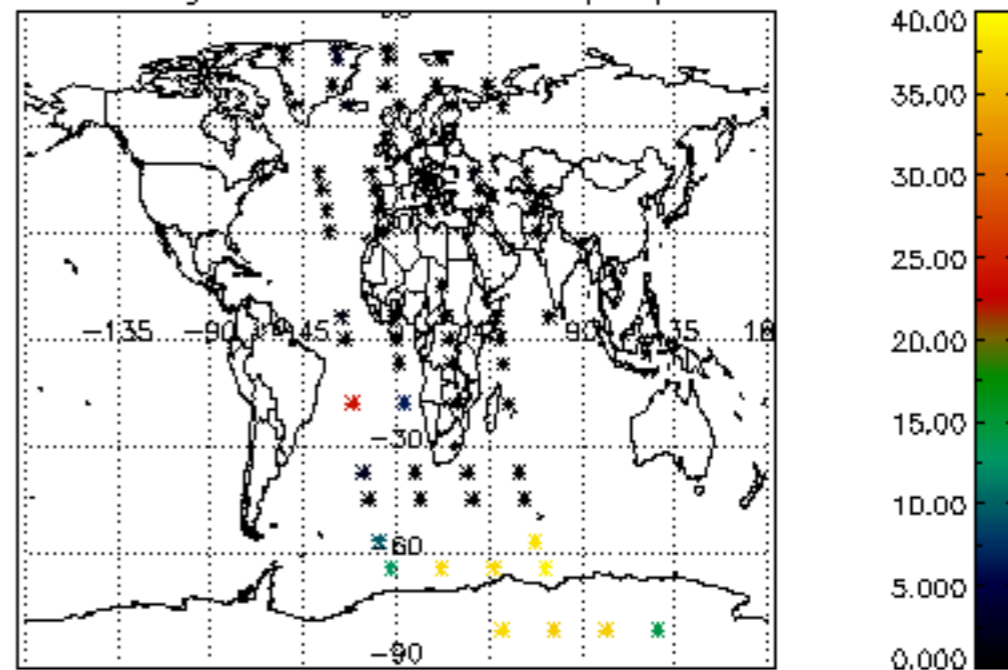
Percentage of datation errors per profile



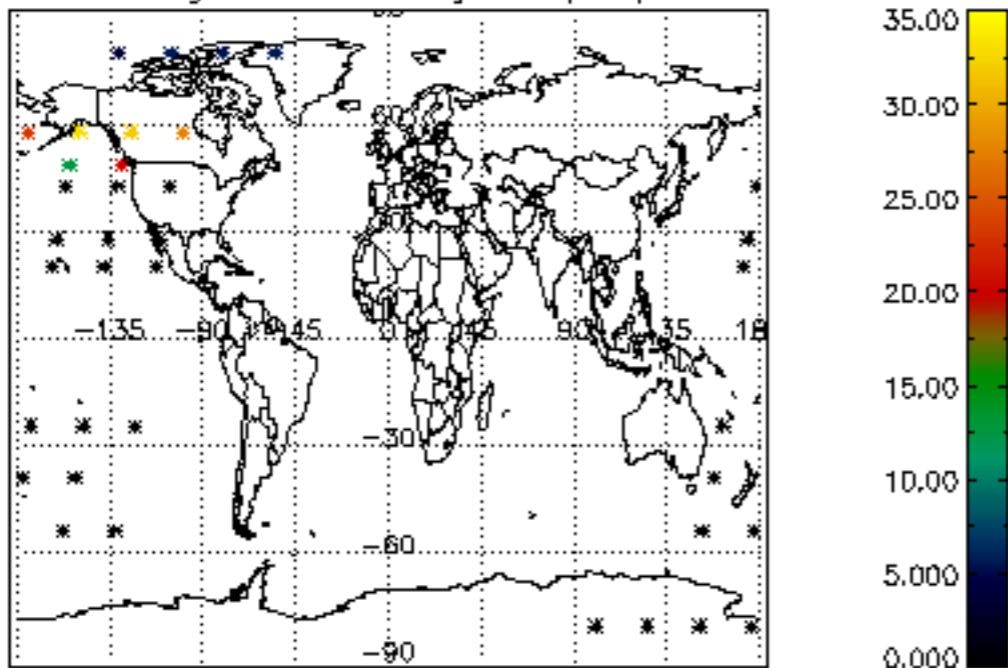
Percentage of star falling outside central band per profile



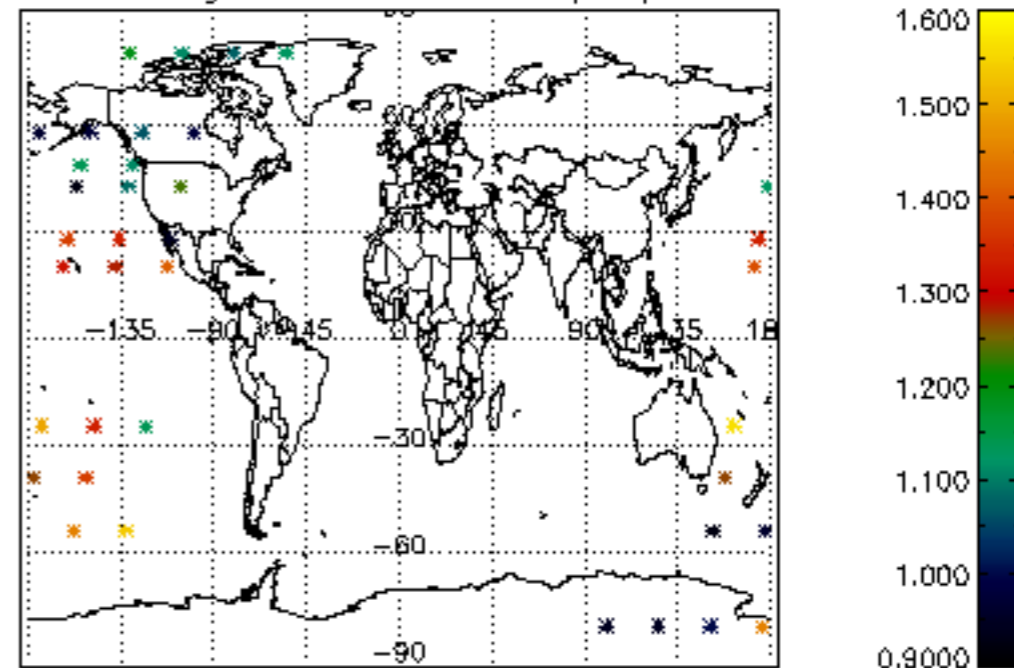
Percentage of saturation errors per profile



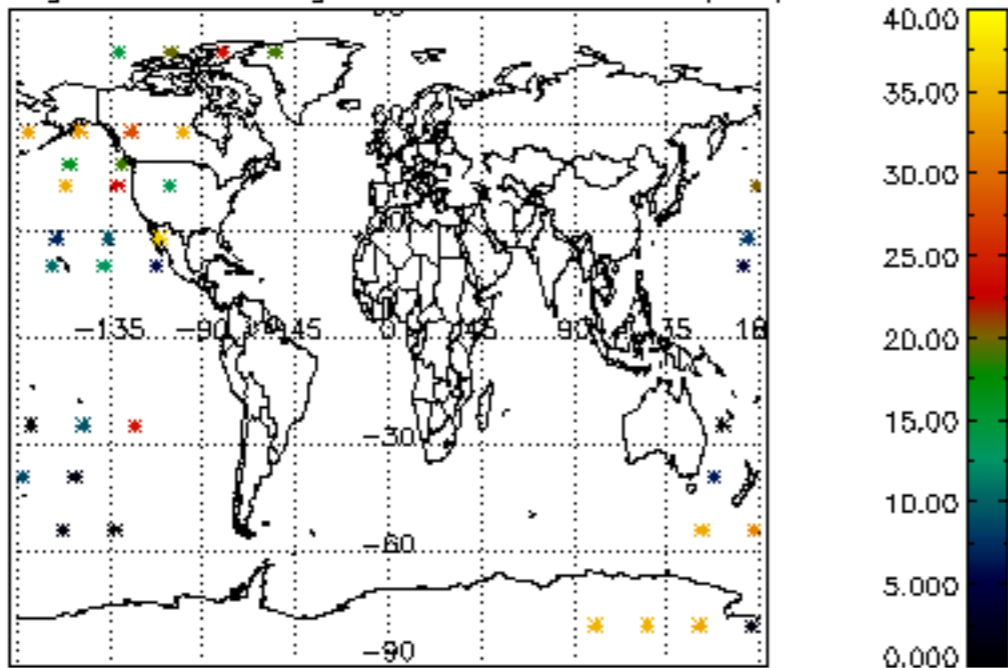
Percentage of cosmic ray hits per profile



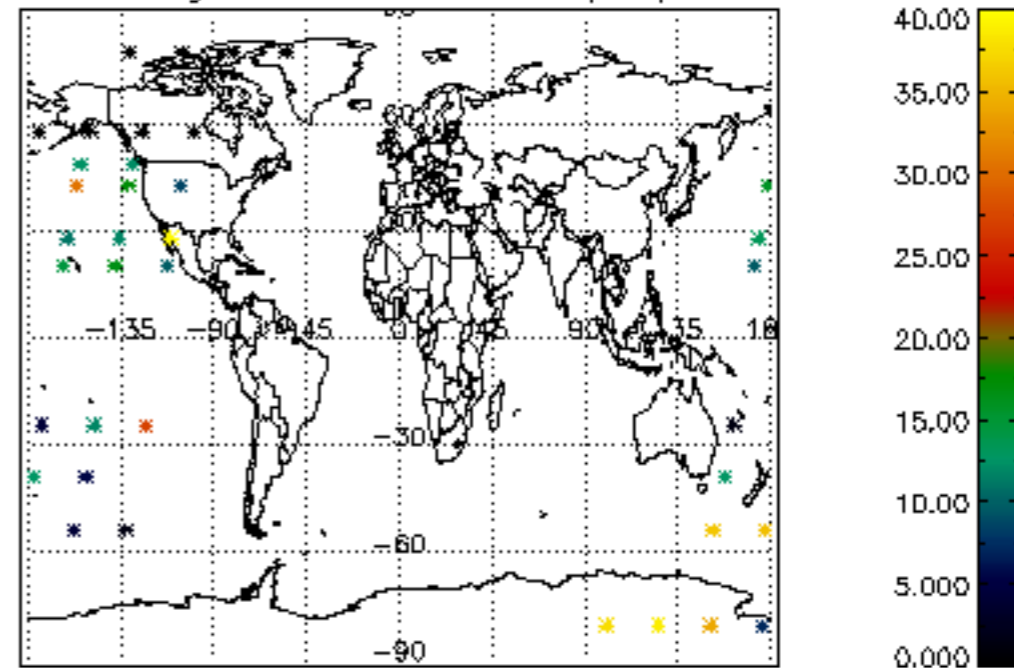
Percentage of datation errors per profile

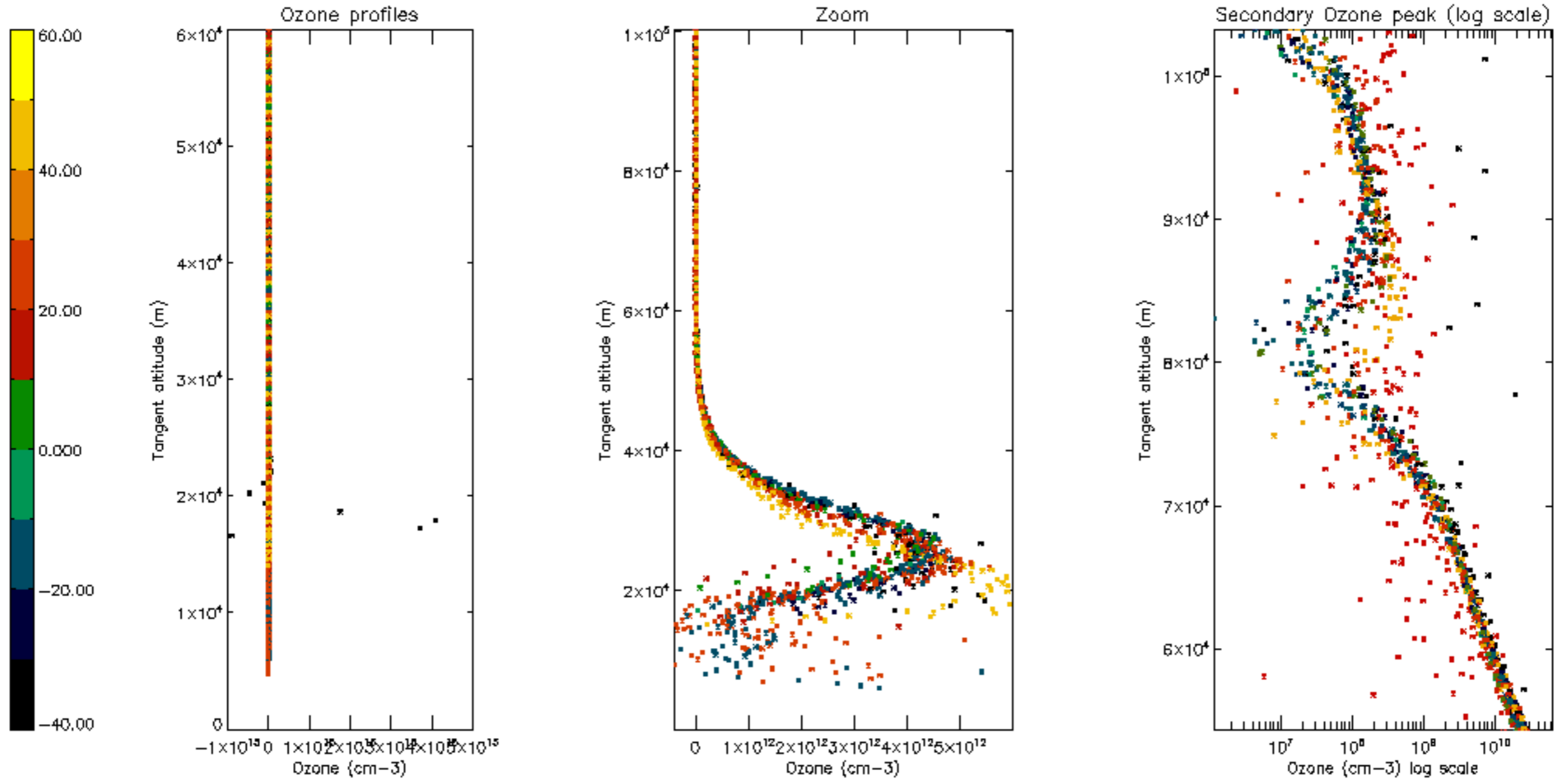


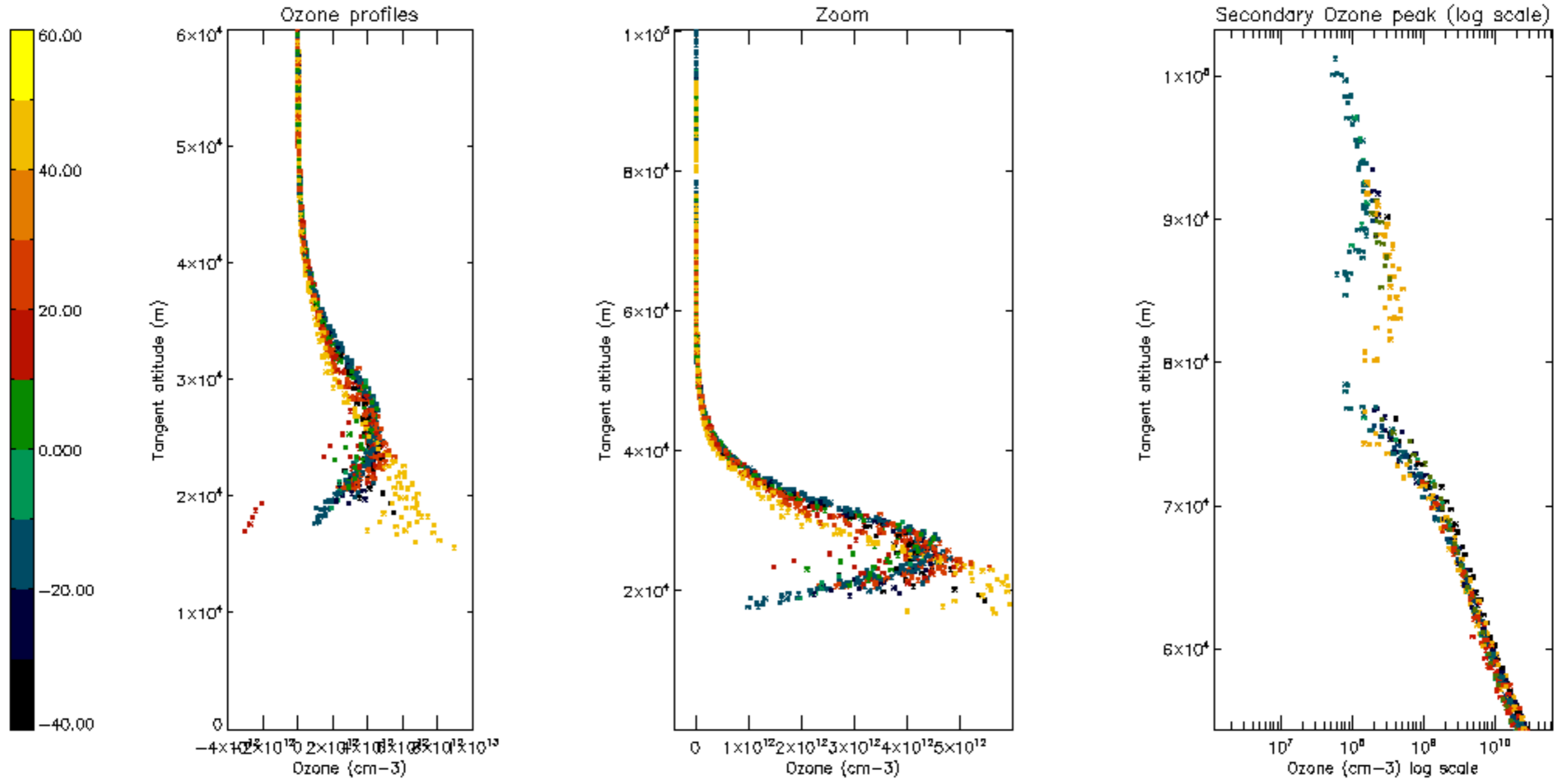
Percentage of star falling outside central band per profile



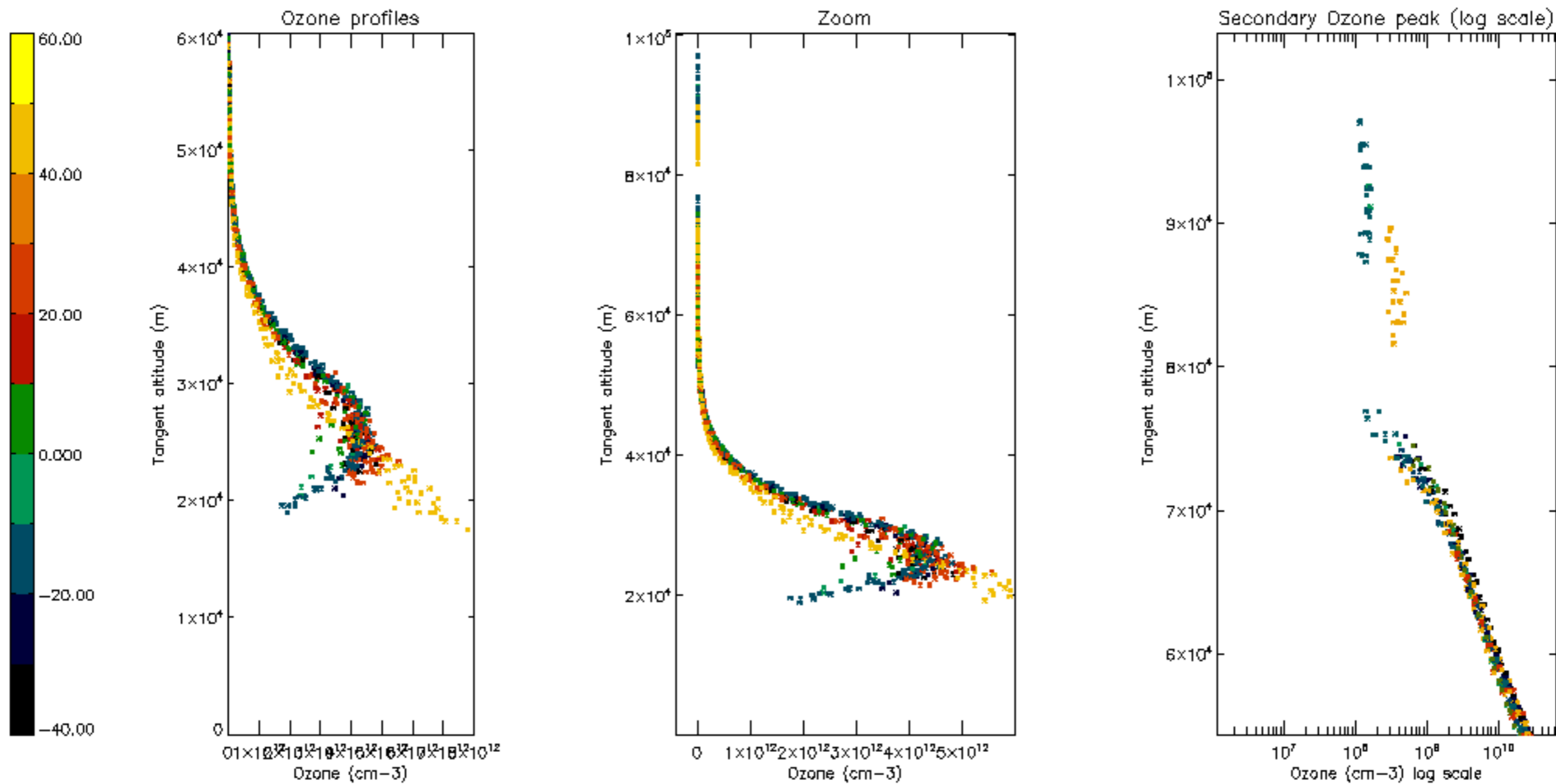
Percentage of saturation errors per profile

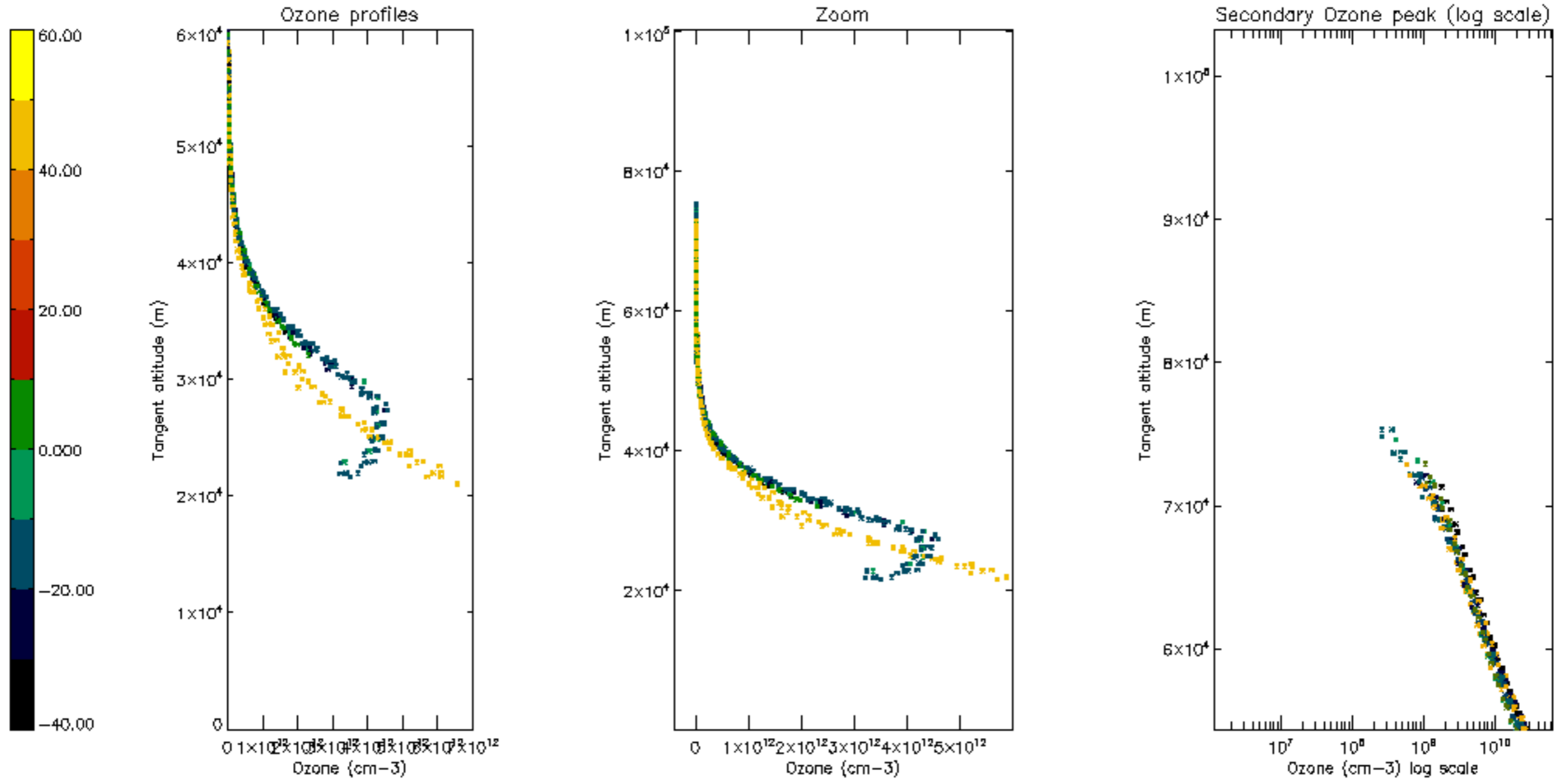


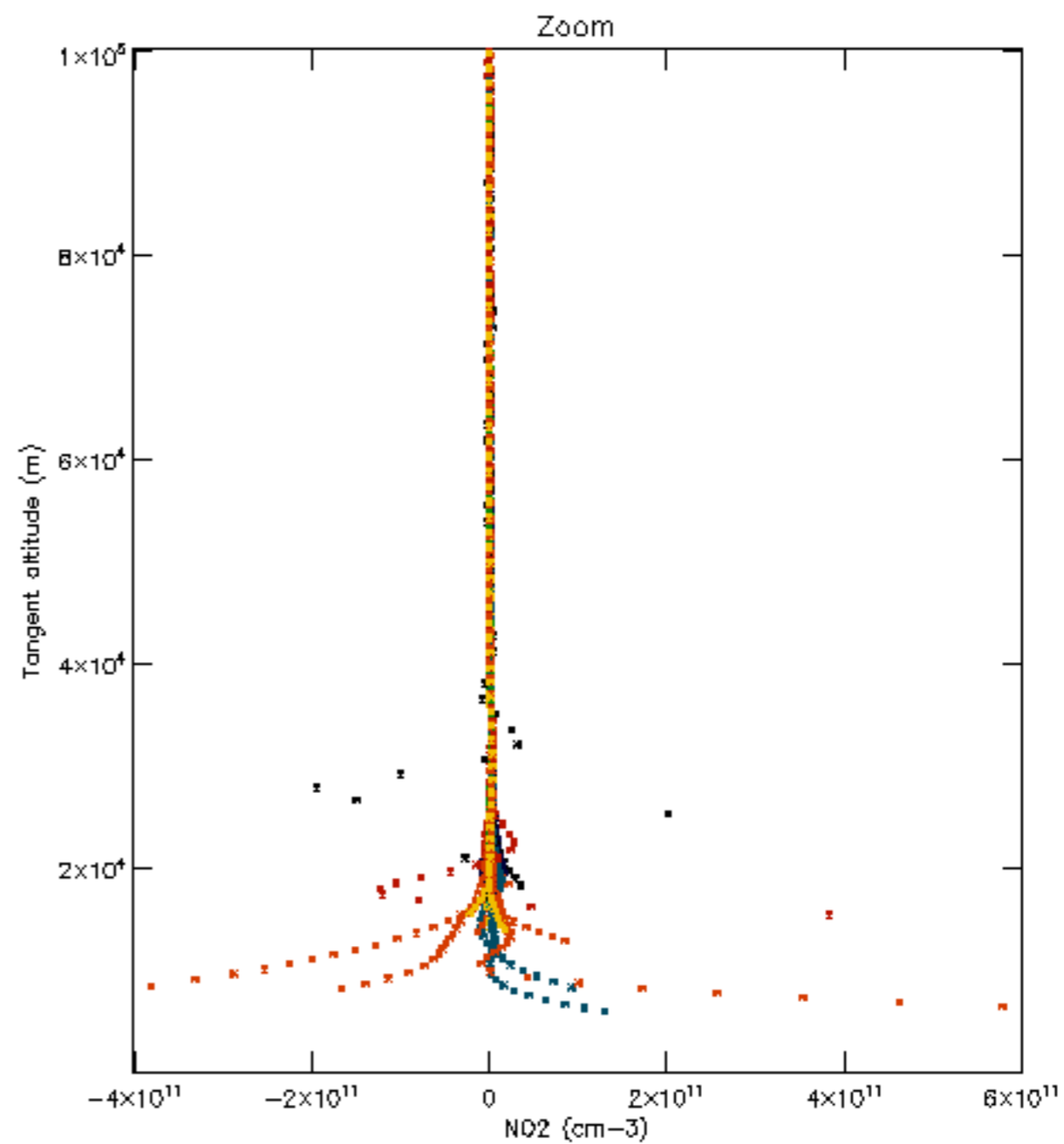
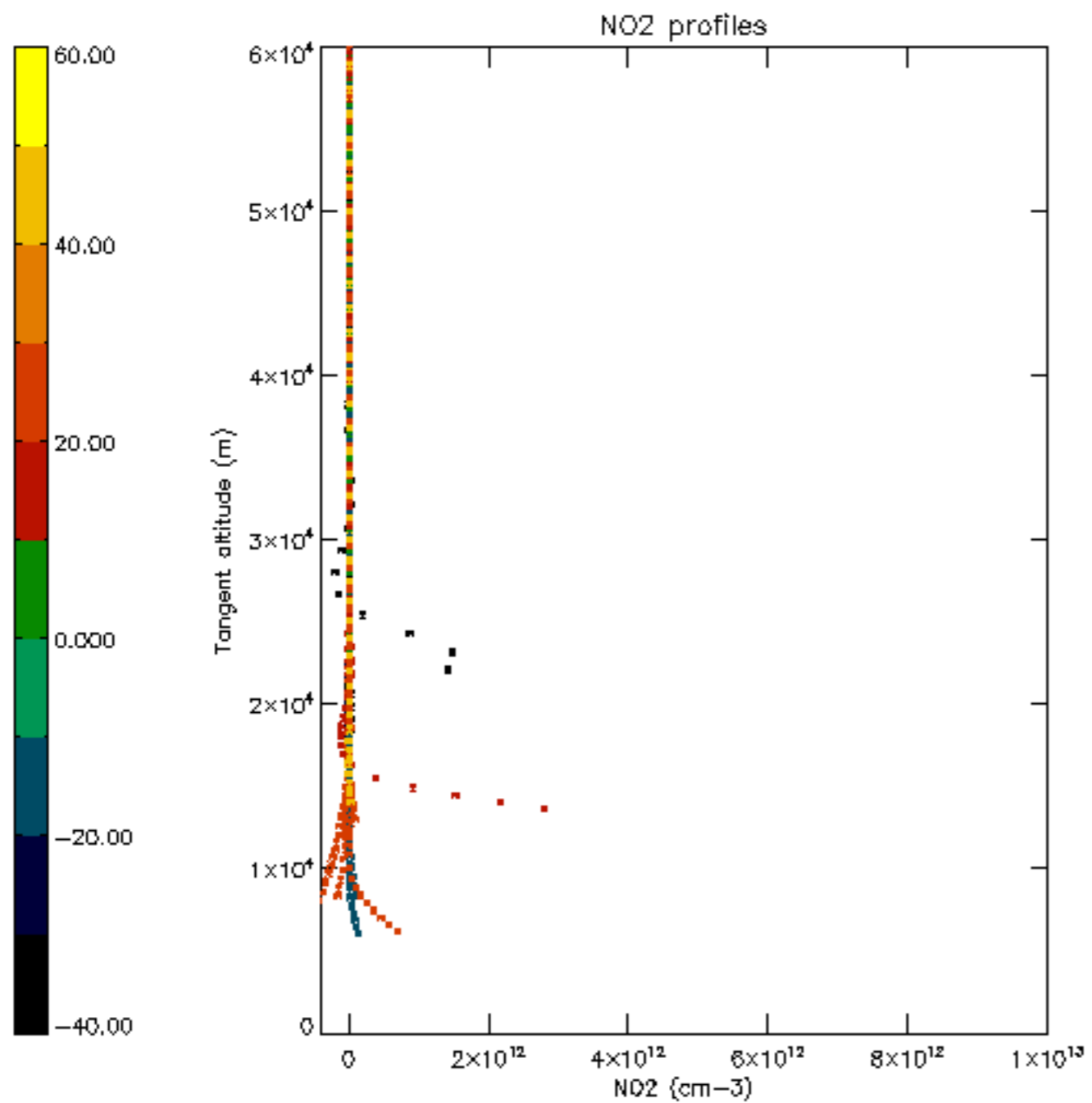


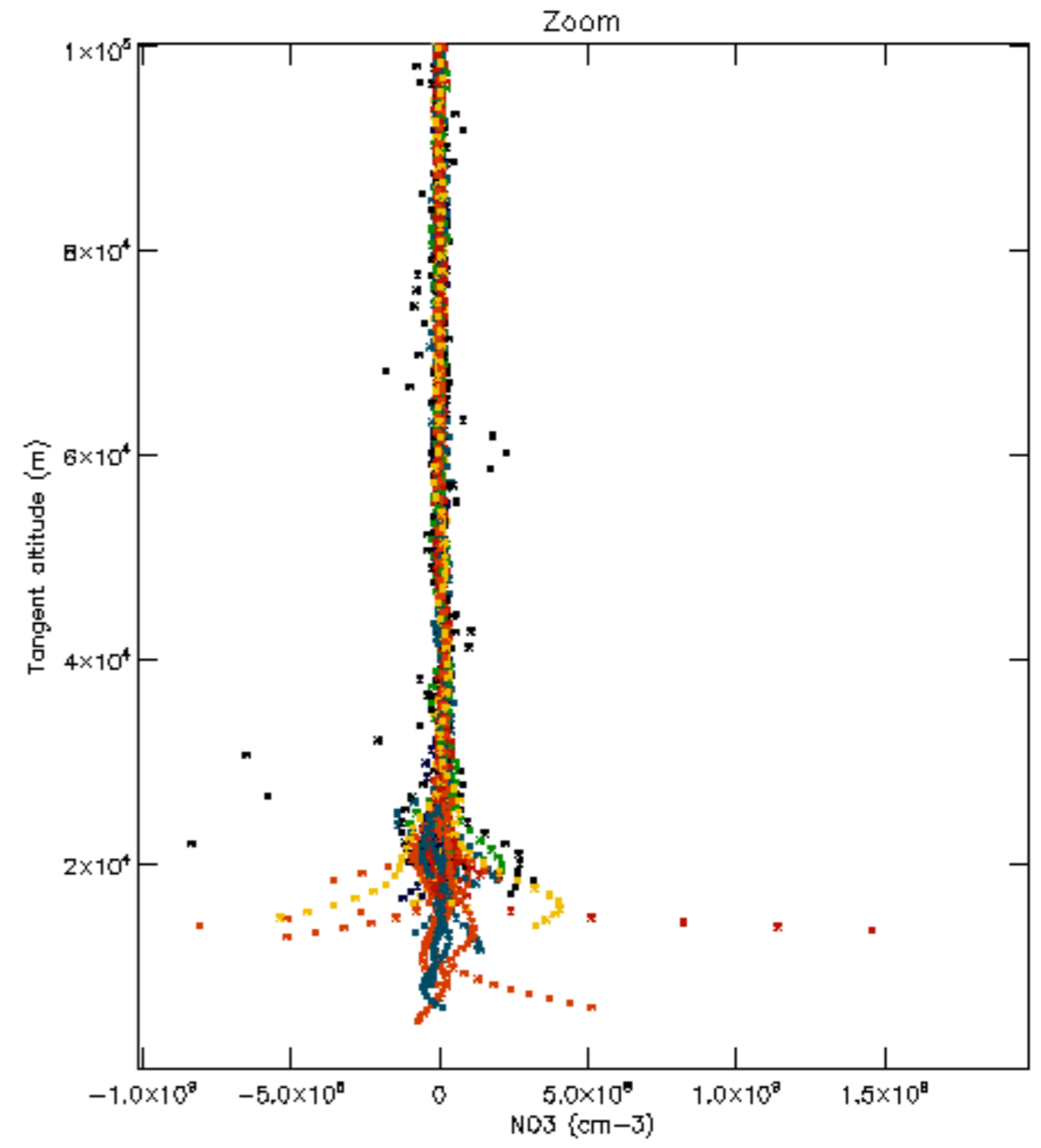
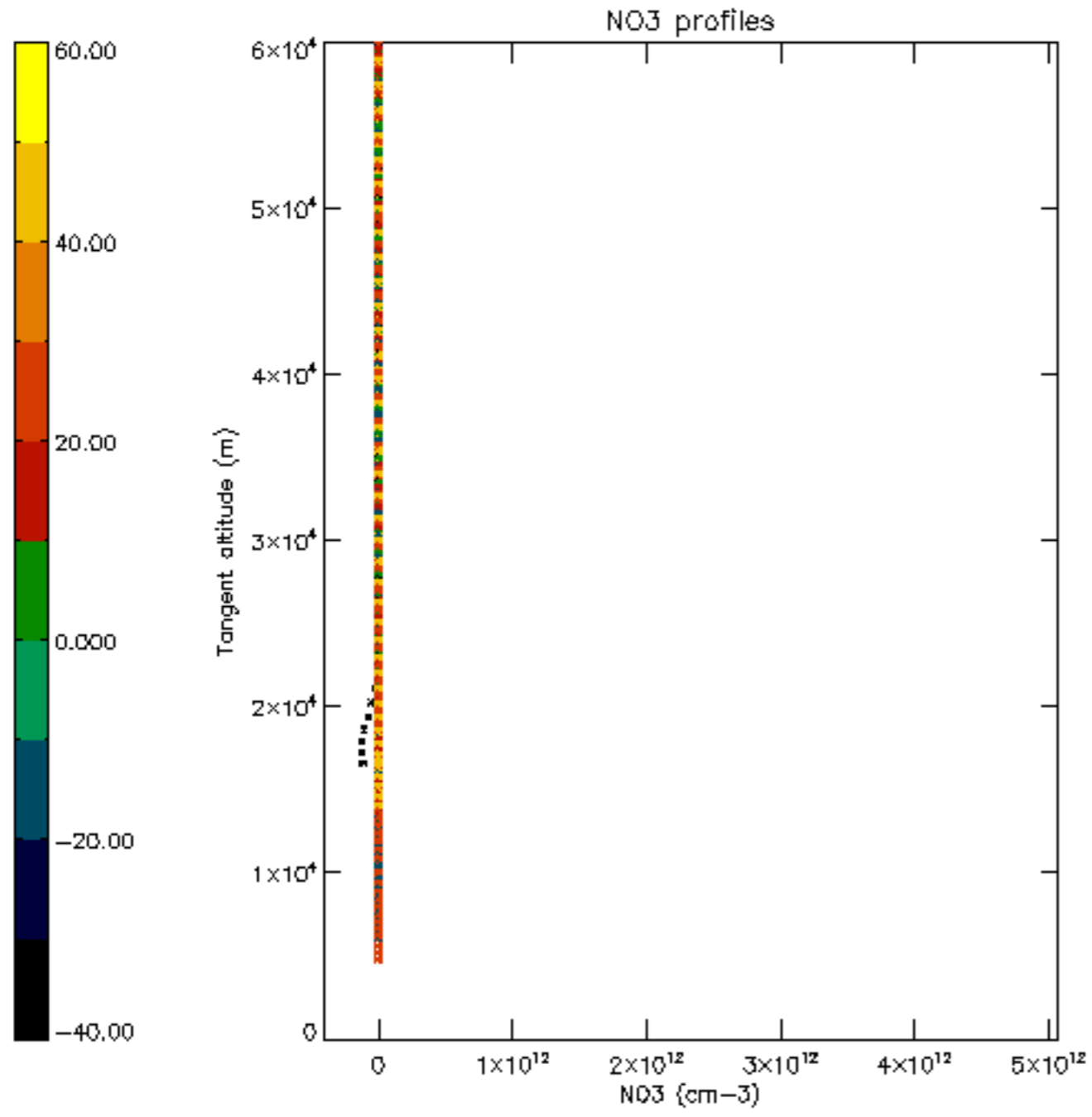


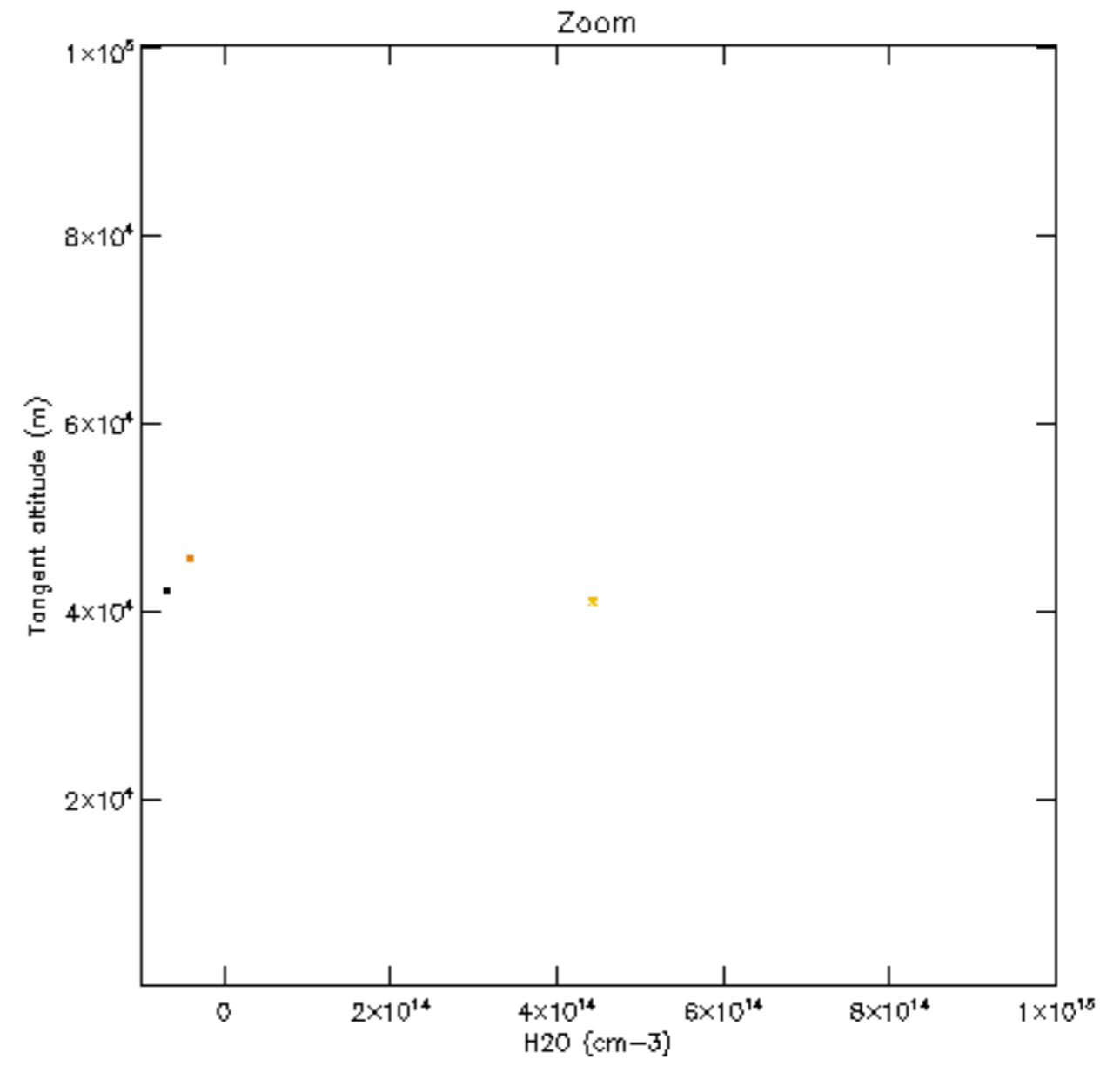
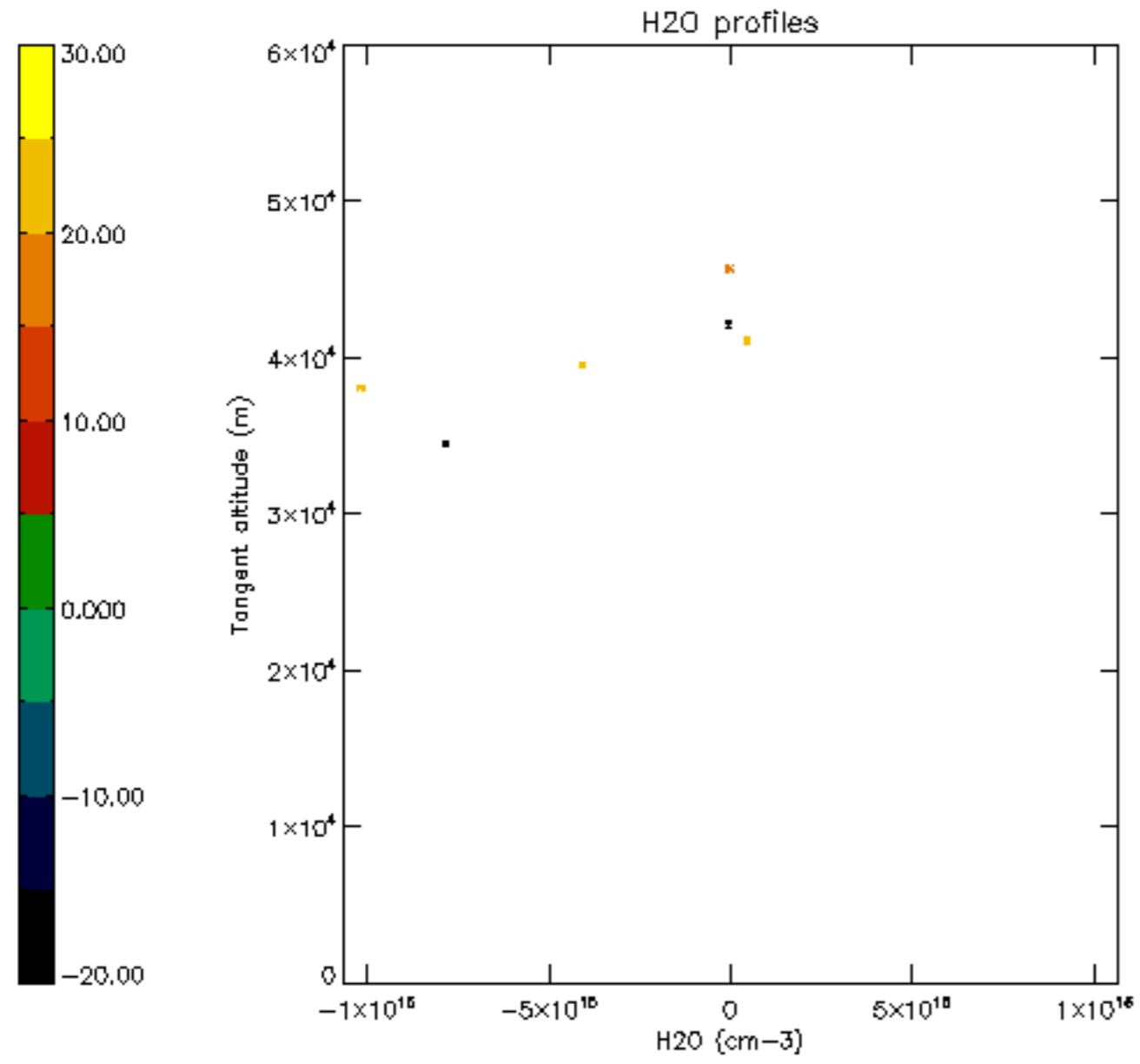


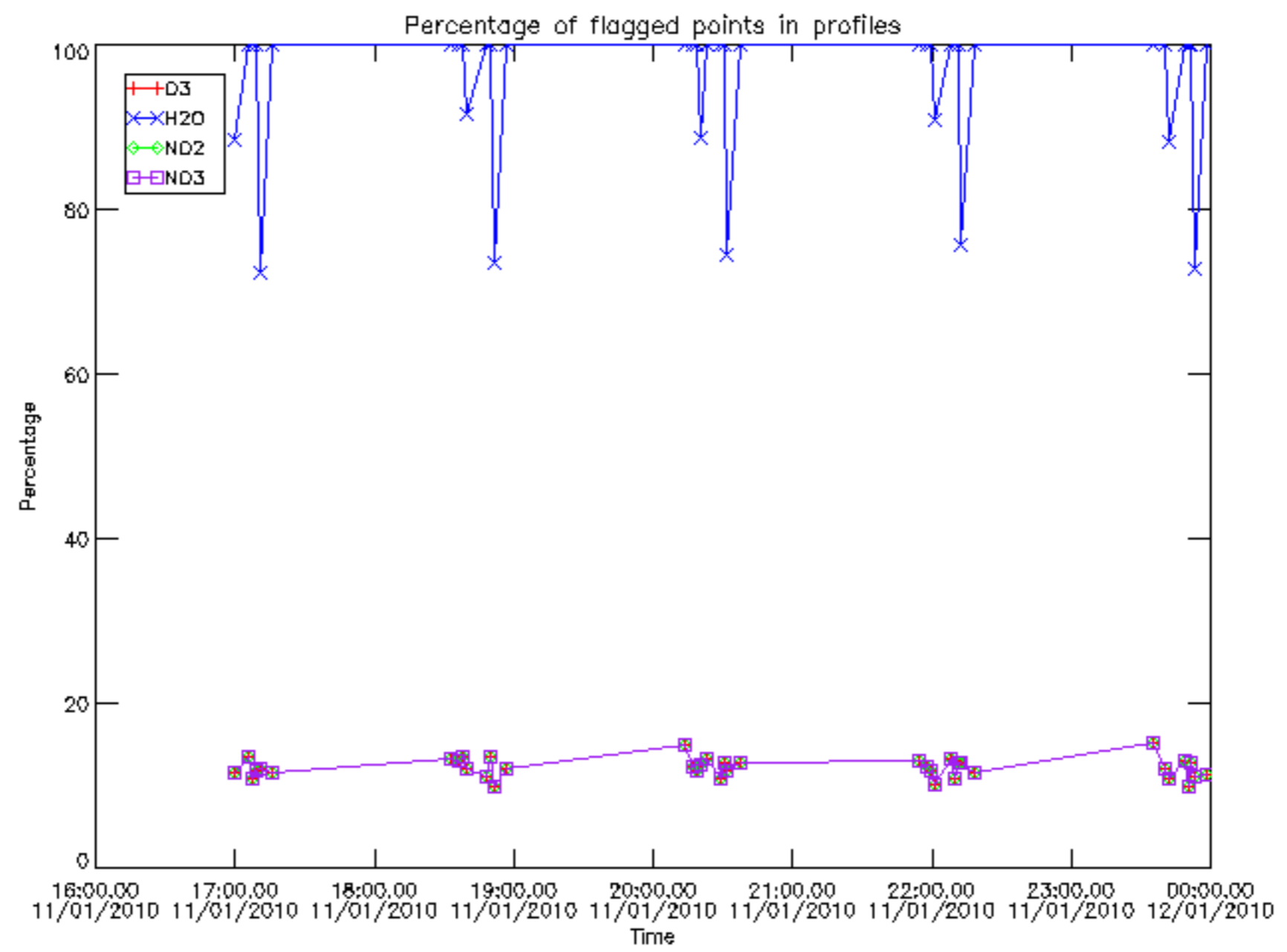




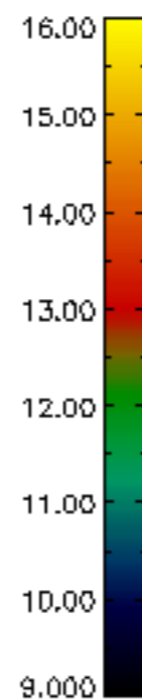
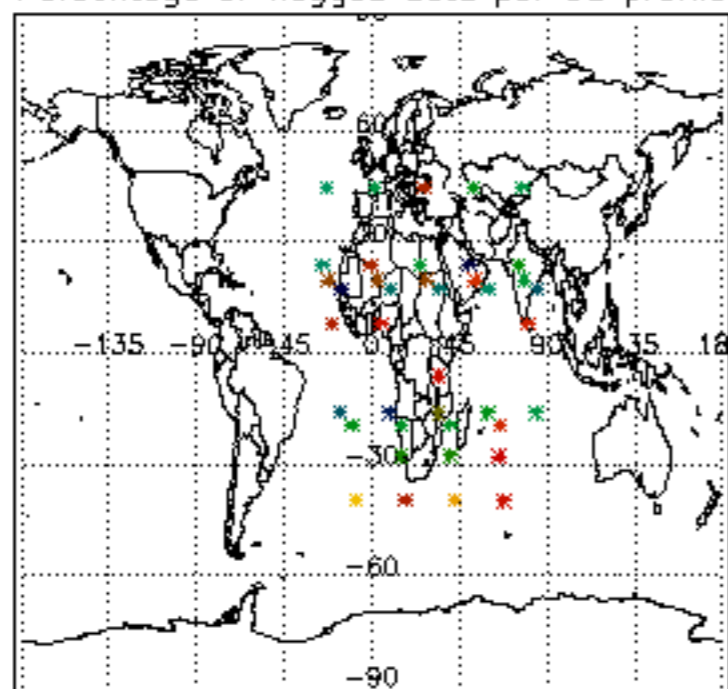




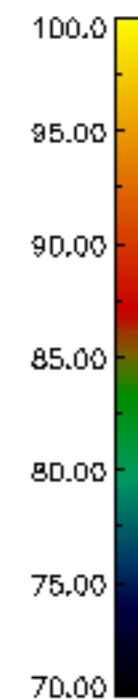
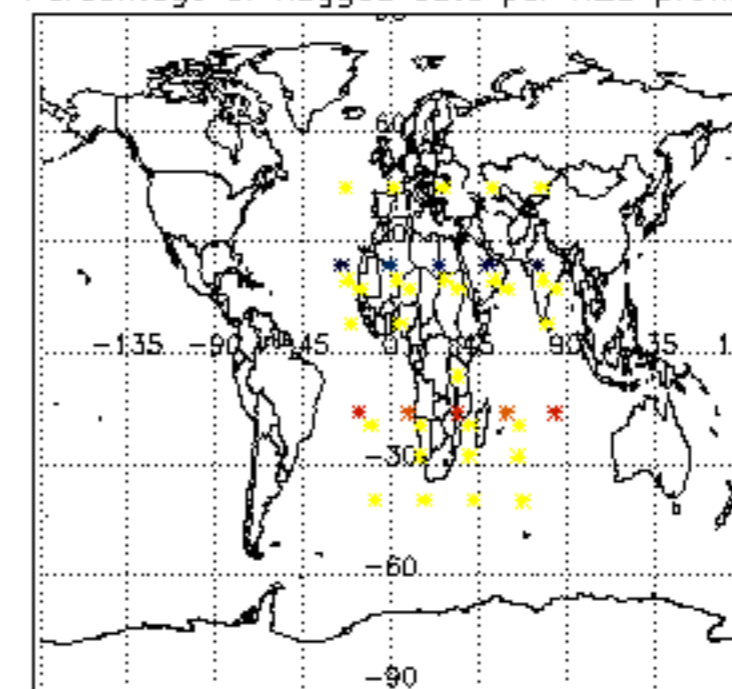




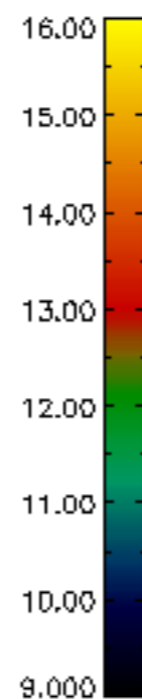
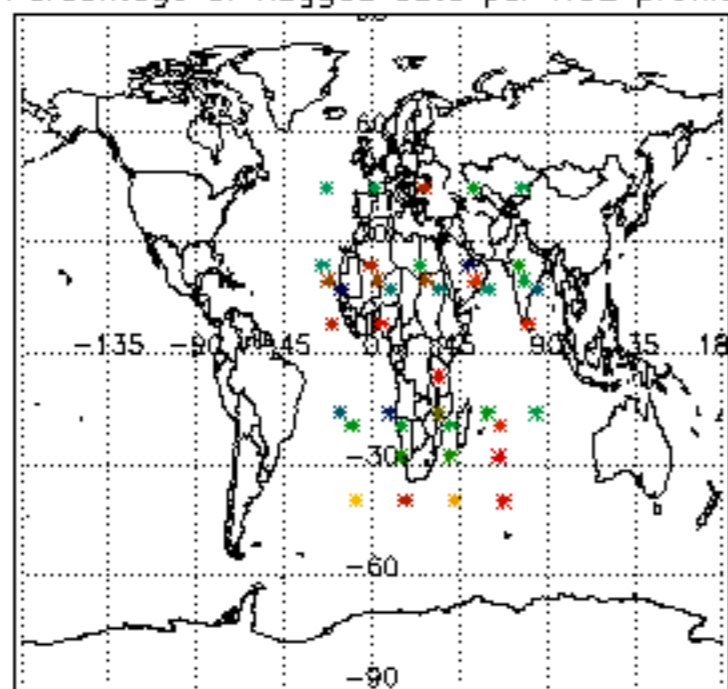
Percentage of flagged data per D3 profile



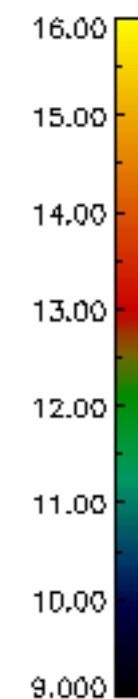
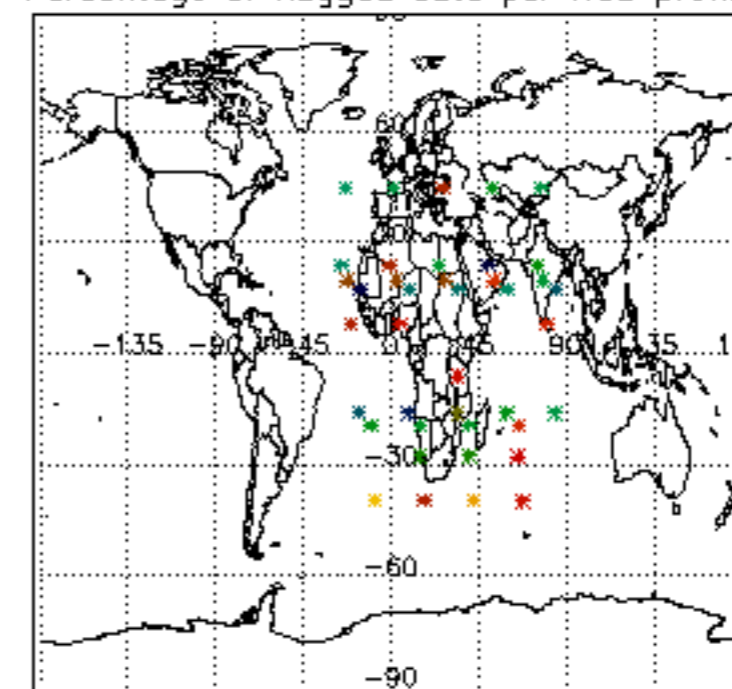
Percentage of flagged data per H2O profile

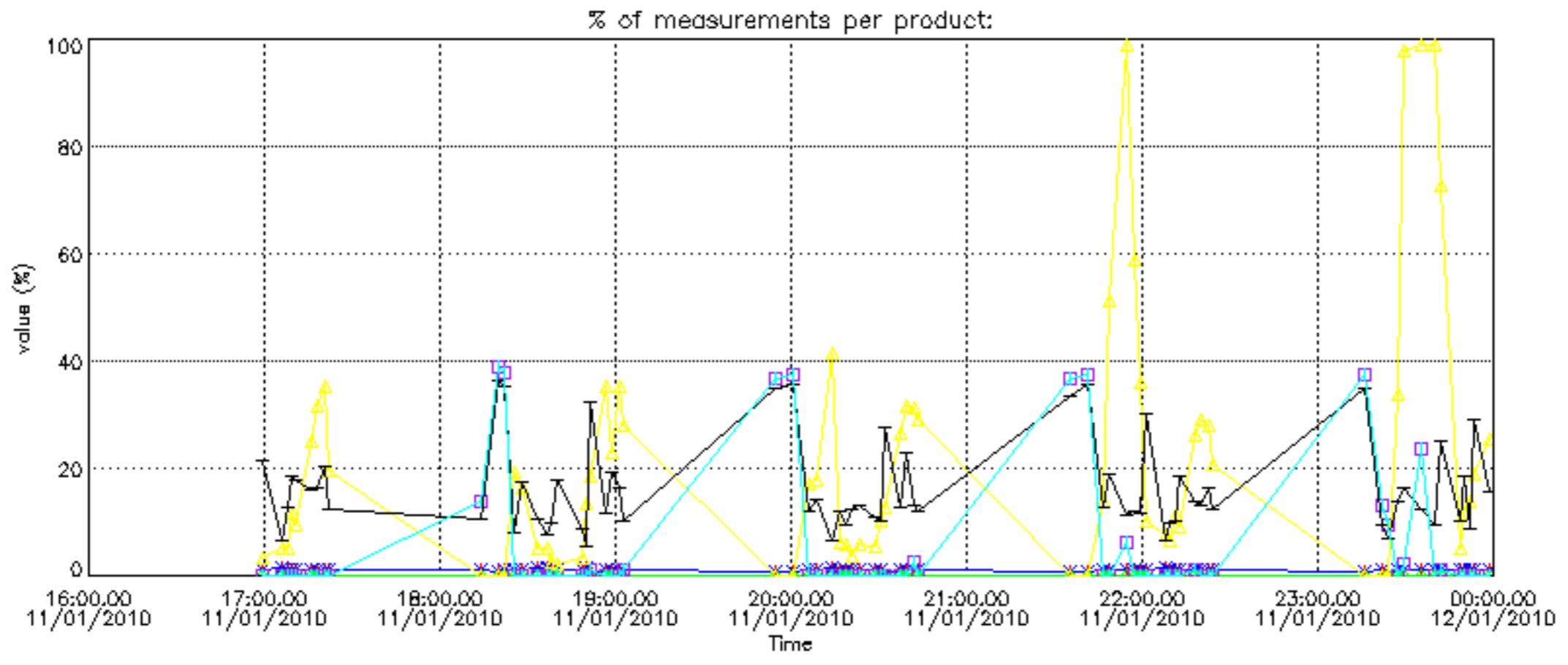


Percentage of flagged data per NO2 profile

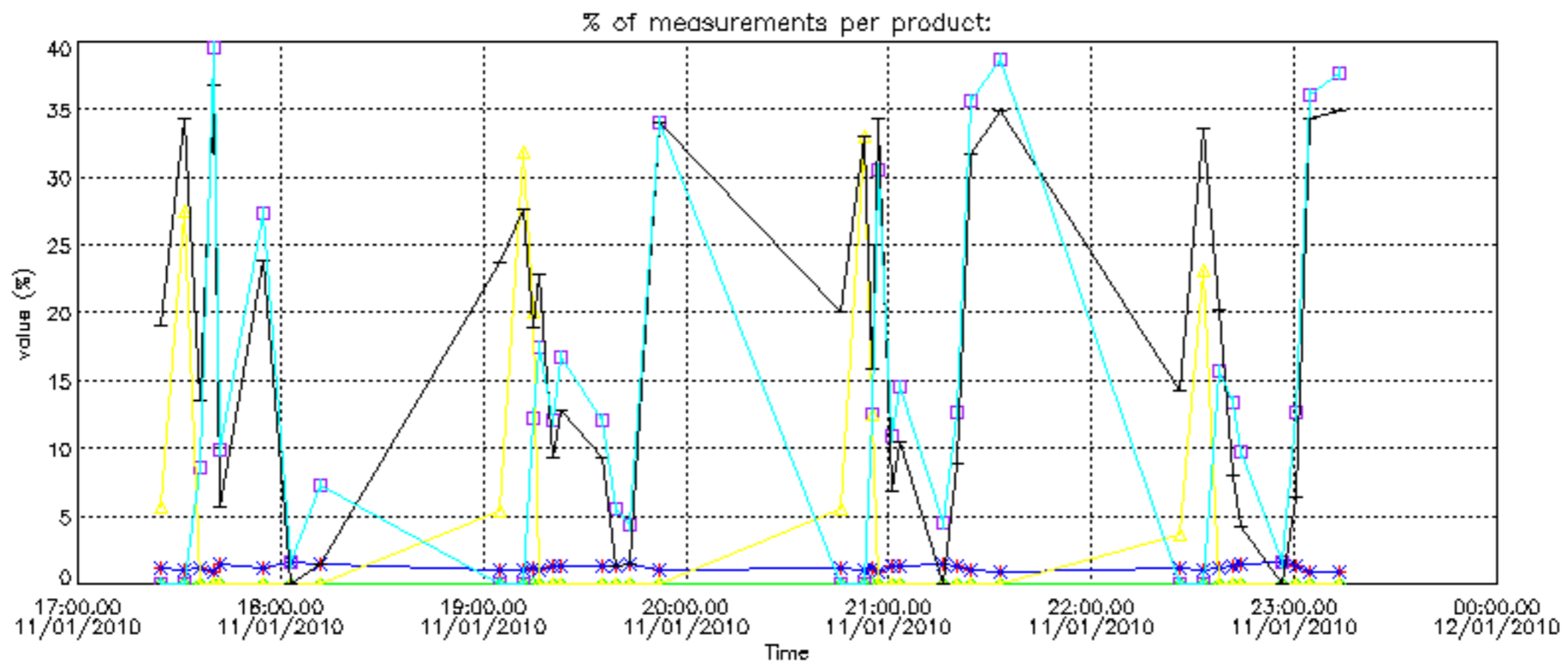


Percentage of flagged data per NO3 profile

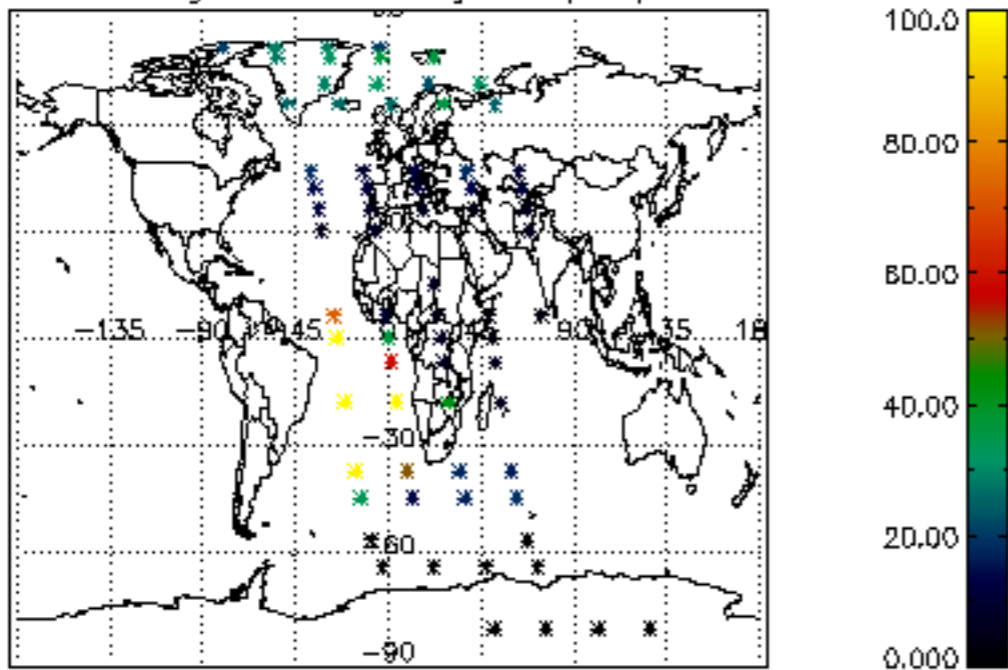




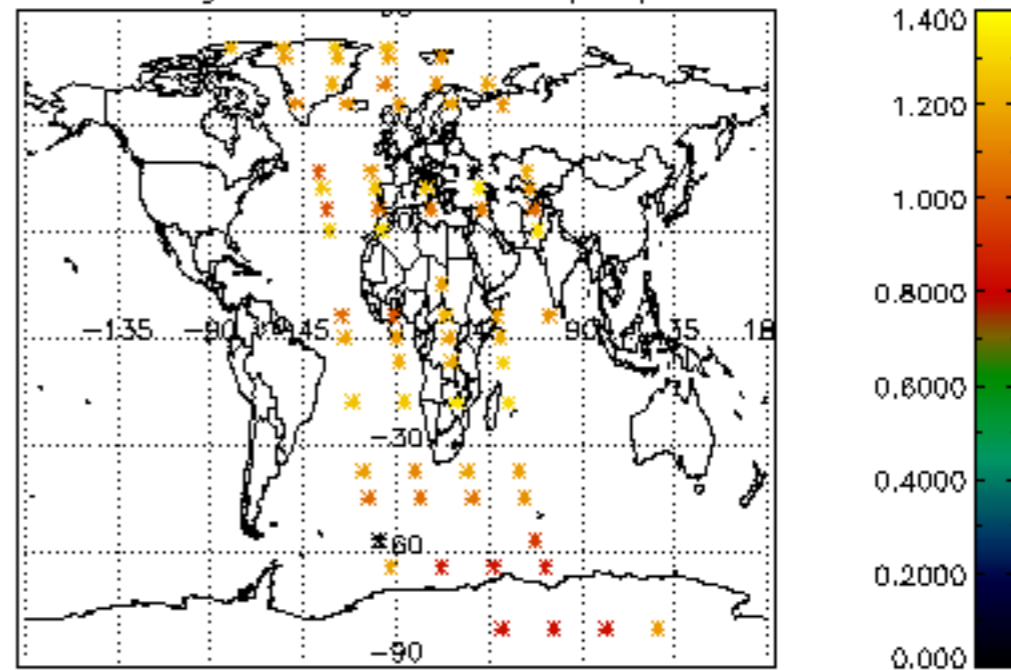




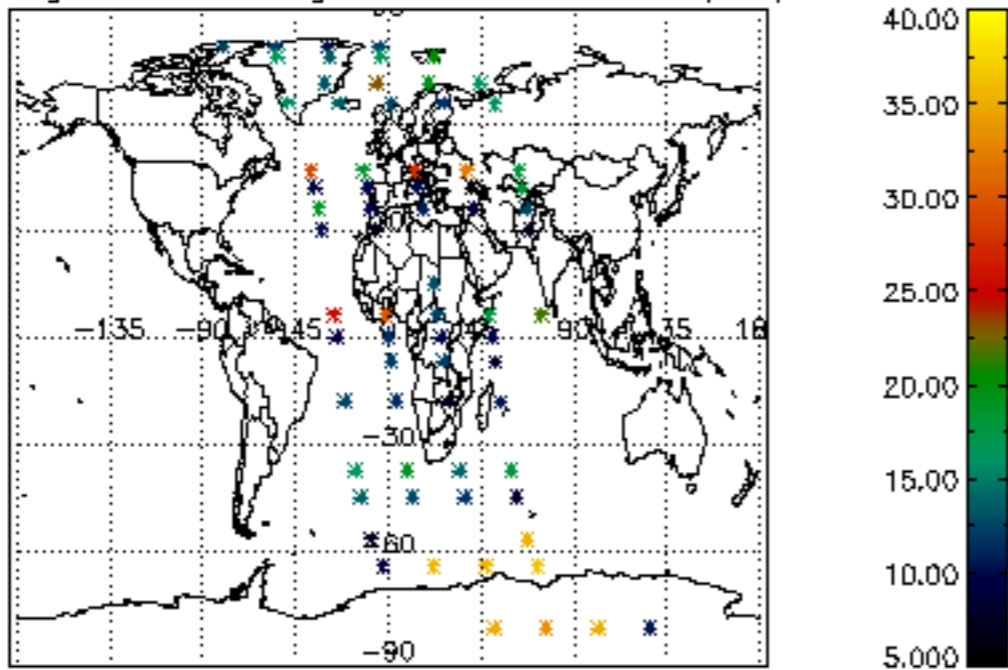
Percentage of cosmic ray hits per profile



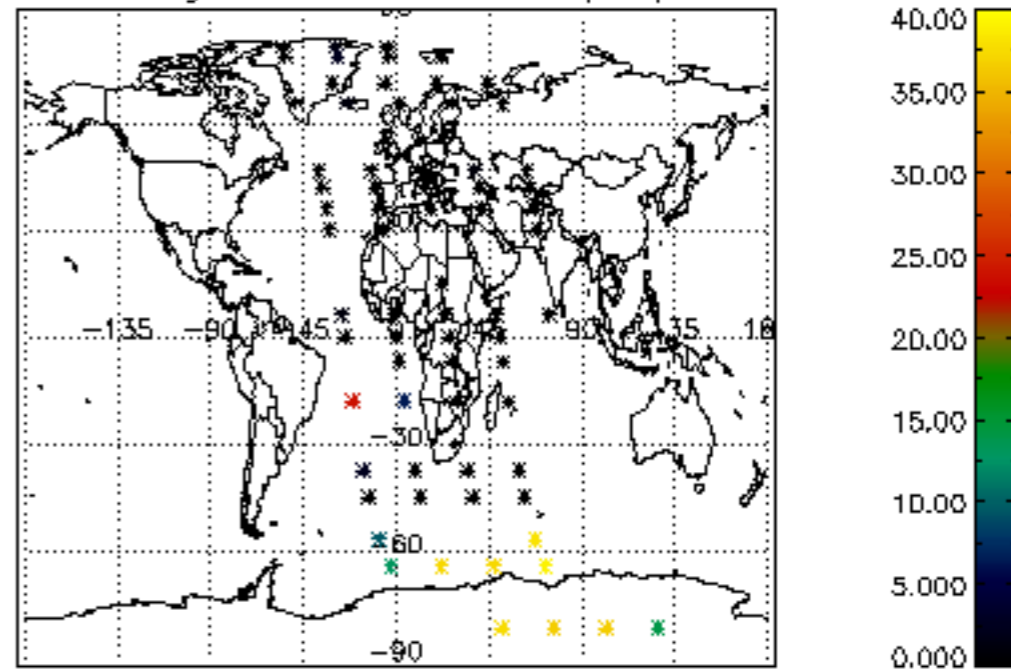
Percentage of datation errors per profile



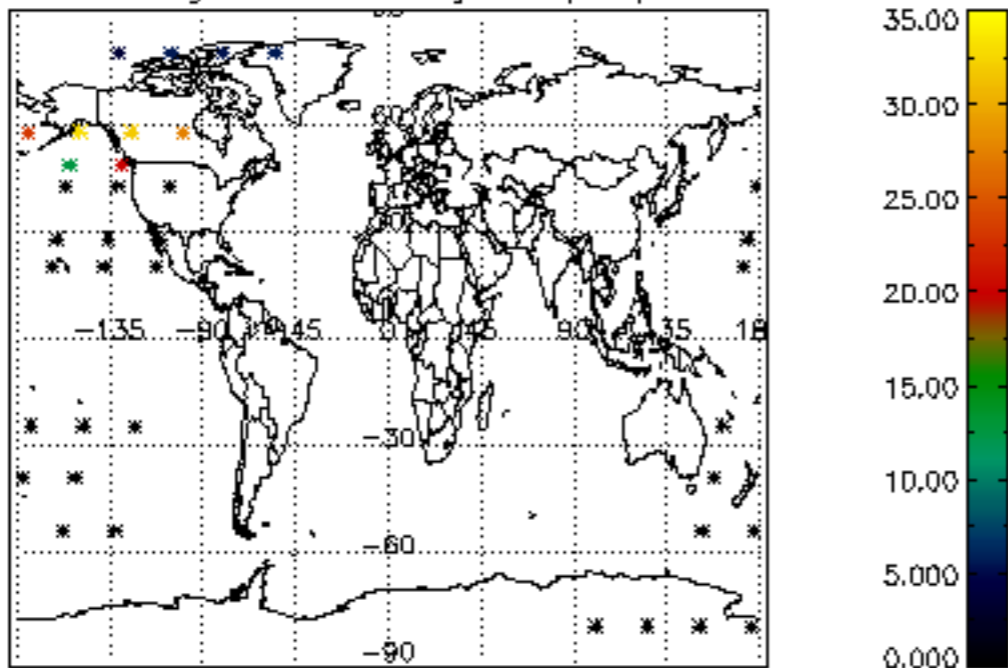
Percentage of star falling outside central band per profile



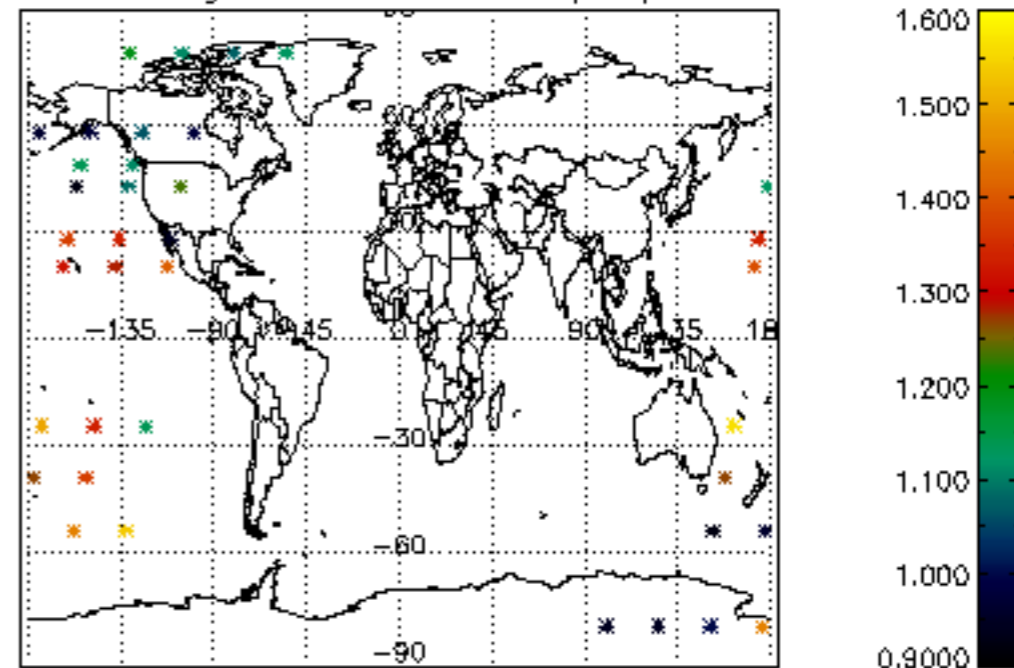
Percentage of saturation errors per profile



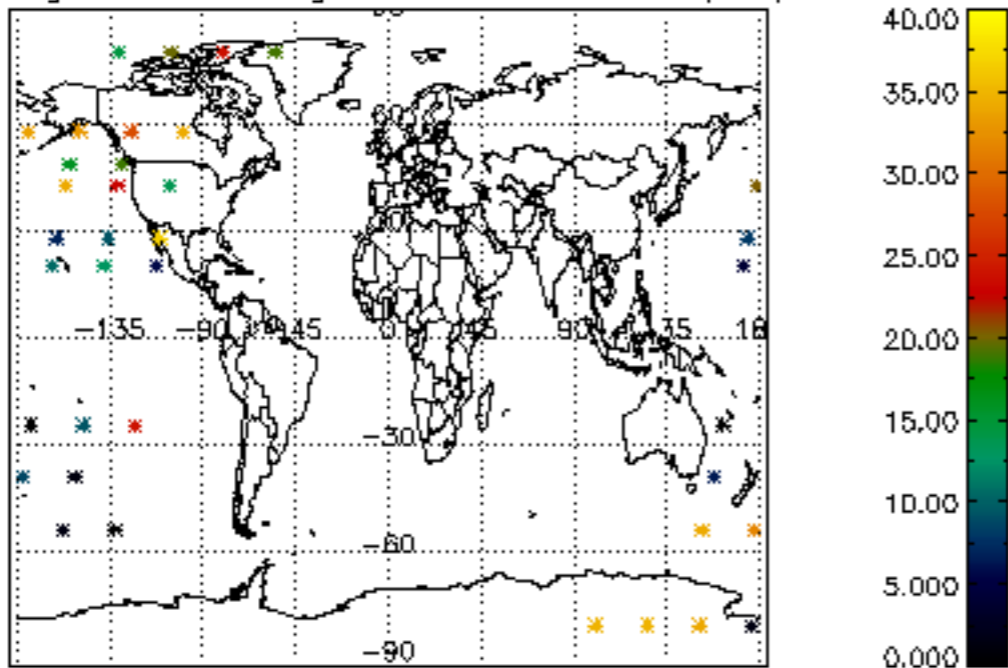
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

