

# 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	25APR2013 14:57:19
Data source version	GOMOS/6.01
Start time of products	31-05-2008 (31MAY2008 00:00:00)
Stop time of products	01-06-2008 (01JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	109
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__2PRFIN20080531_000422_000000402069_00059_32678_3870.N1	31-MAY-2008 00:04:22	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	32678	No
2	GOM_NL__2PRFIN20080531_001449_000000482069_00059_32678_3871.N1	31-MAY-2008 00:14:49	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	32678	No
3	GOM_NL__2PRFIN20080531_001944_000000372069_00059_32678_3872.N1	31-MAY-2008 00:19:44	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	32678	No
4	GOM_NL__2PRFIN20080531_002727_000000422069_00059_32678_3873.N1	31-MAY-2008 00:27:27	Bright	41.500	53	43Bet And	2.0480	3300.0	83	32678	No
5	GOM_NL__2PRFIN20080531_003008_000000542069_00059_32678_3874.N1	31-MAY-2008 00:30:08	Twilight	53.500	58	21Alp And	2.0730	11000.	107	32678	No
6	GOM_NL__2PRFIN20080531_003501_000000532069_00059_32678_3875.N1	31-MAY-2008 00:35:01	Dark	52.500	140	88Gam Peg	2.8340	26000.	105	32678	No
7	GOM_NL__2PRFIN20080531_004400_000000472069_00059_32678_3876.N1	31-MAY-2008 00:44:00	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	32678	No
8	GOM_NL__2PRFIN20080531_005042_000000452069_00059_32678_3877.N1	31-MAY-2008 00:50:42	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	32678	No
9	GOM_NL__2PRFIN20080531_005235_000000532069_00059_32678_3878.N1	31-MAY-2008 00:52:35	Dark	53.000	18	24Alp PsA	1.1660	9700.0	106	32678	No
10	GOM_NL__2PRFIN20080531_160033_000001032069_00069_32688_4109.N1	31-MAY-2008 16:00:33	Dark	103.000	63	Bet Gru	2.1500	2800.0	206	32688	No
11	GOM_NL__2PRFIN20080531_160726_000000992069_00069_32688_4110.N1	31-MAY-2008 16:07:26	Straylight	98.500	45	Alp Pav	1.9400	26000.	197	32688	No
12	GOM_NL__2PRFIN20080531_161454_000000932069_00069_32688_4111.N1	31-MAY-2008 16:14:54	Straylight	93.000	147	Alp Ara	2.8770	26000.	186	32688	No
13	GOM_NL__2PRFIN20080531_161818_000001062069_00069_32688_4112.N1	31-MAY-2008 16:18:18	Twilight	106.000	25	35Lam Sco	1.6200	28000.	212	32688	No
14	GOM_NL__2PRFIN20080531_162211_000001022069_00069_32688_4113.N1	31-MAY-2008 16:22:11	Bright	102.000	136	23Tau Sco	2.8220	30000.	204	32688	No
15	GOM_NL__2PRFIN20080531_162541_000001102069_00069_32688_4114.N1	31-MAY-2008 16:25:41	Bright	109.500	86	35Eta Oph	2.4300	10200.	219	32688	No
16	GOM_NL__2PRFIN20080531_162951_000000962069_00069_32688_4115.N1	31-MAY-2008 16:29:51	Bright	95.500	120	1Del Oph	2.7340	3200.0	191	32688	No
17	GOM_NL__2PRFIN20080531_163255_000000902069_00069_32688_4116.N1	31-MAY-2008 16:32:55	Bright	90.000	102	24Alp Ser	2.6000	4250.0	180	32688	No
18	GOM_NL__2PRFIN20080531_163756_000001032069_00069_32688_4117.N1	31-MAY-2008 16:37:56	Bright	103.000	127	27Bet Her	2.7810	4700.0	206	32688	No
19	GOM_NL__2PRFIN20080531_164123_000001012069_00069_32688_4118.N1	31-MAY-2008 16:41:23	Bright	101.000	133	40Zet Her	2.8070	6000.0	202	32688	No
20	GOM_NL__2PRFIN20080531_164925_000000912069_00069_32688_4119.N1	31-MAY-2008 16:49:25	Bright	91.000	119	14Eta Dra	2.7270	4700.0	182	32688	No
21	GOM_NL__2PRFIN20080531_165937_000001132069_00069_32688_4120.N1	31-MAY-2008 16:59:37	Bright	113.000	89	5Alp Cep	2.4510	8000.0	226	32688	No
22	GOM_NL__2PRFIN20080531_170448_000000902069_00069_32688_4121.N1	31-MAY-2008 17:04:48	Bright	89.500	76	27Gam Cas	2.3000	30000.	179	32688	No
23	GOM_NL__2PRFIN20080531_171232_000001012069_00069_32688_4122.N1	31-MAY-2008 17:12:32	Bright	100.500	53	43Bet And	2.0480	3300.0	201	32688	No
24	GOM_NL__2PRFIN20080531_171503_000001192069_00069_32688_4123.N1	31-MAY-2008 17:15:03	Twilight	119.000	58	21Alp And	2.0730	11000.	238	32688	No
25	GOM_NL__2PRFIN20080531_172000_000001172069_00069_32688_4124.N1	31-MAY-2008 17:20:00	Dark	117.000	140	88Gam Peg	2.8340	26000.	234	32688	No
26	GOM_NL__2PRFIN20080531_173738_000001232069_00069_32688_4125.N1	31-MAY-2008 17:37:38	Dark	122.500	18	24Alp PsA	1.1660	9700.0	245	32688	No
27	GOM_NL__2PRFIN20080531_174109_000001062069_00070_32689_4117.N1	31-MAY-2008 17:41:09	Dark	106.000	63	Bet Gru	2.1500	2800.0	212	32689	No
28	GOM_NL__2PRFIN20080531_174802_000000962069_00070_32689_4118.N1	31-MAY-2008 17:48:02	Straylight	96.000	45	Alp Pav	1.9400	26000.	192	32689	No
29	GOM_NL__2PRFIN20080531_175531_000000952069_00070_32689_4119.N1	31-MAY-2008 17:55:31	Straylight	95.000	147	Alp Ara	2.8770	26000.	190	32689	No
30	GOM_NL__2PRFIN20080531_175855_000001072069_00070_32689_4120.N1	31-MAY-2008 17:58:55	Twilight	106.500	25	35Lam Sco	1.6200	28000.	213	32689	No
31	GOM_NL__2PRFIN20080531_180247_000001042069_00070_32689_4121.N1	31-MAY-2008 18:02:47	Bright	103.500	136	23Tau Sco	2.8220	30000.	207	32689	No
32	GOM_NL__2PRFIN20080531_180617_000001082069_00070_32689_4122.N1	31-MAY-2008 18:06:17	Bright	108.000	86	35Eta Oph	2.4300	10200.	216	32689	No
33	GOM_NL__2PRFIN20080531_181027_000000962069_00070_32689_4123.N1	31-MAY-2008 18:10:27	Bright	96.000	120	1Del Oph	2.7340	3200.0	192	32689	No
34	GOM_NL__2PRFIN20080531_181331_000000912069_00070_32689_4124.N1	31-MAY-2008 18:13:31	Bright	90.500	102	24Alp Ser	2.6000	4250.0	181	32689	No
35	GOM_NL__2PRFIN20080531_181832_000001032069_00070_32689_4125.N1	31-MAY-2008 18:18:32	Bright	103.000	127	27Bet Her	2.7810	4700.0	206	32689	No
36	GOM_NL__2PRFIN20080531_182158_000001032069_00070_32689_4126.N1	31-MAY-2008 18:21:58	Bright	102.500	133	40Zet Her	2.8070	6000.0	205	32689	No
37	GOM_NL__2PRFIN20080531_183001_000000942069_00070_32689_4127.N1	31-MAY-2008 18:30:01	Bright	93.500	119	14Eta Dra	2.7270	4700.0	187	32689	No
38	GOM_NL__2PRFIN20080531_184012_000001122069_00070_32689_4128.N1	31-MAY-2008 18:40:12	Bright	112.000	89	5Alp Cep	2.4510	8000.0	224	32689	No
39	GOM_NL__2PRFIN20080531_184524_000001002069_00070_32689_4129.N1	31-MAY-2008 18:45:24	Bright	100.000	76	27Gam Cas	2.3000	30000.	200	32689	No
40	GOM_NL__2PRFIN20080531_185308_000000992069_00070_32689_4130.N1	31-MAY-2008 18:53:08	Bright	99.000	53	43Bet And	2.0480	3300.0	198	32689	No
41	GOM_NL__2PRFIN20080531_185539_000001172069_00070_32689_4131.N1	31-MAY-2008 18:55:39	Twilight	116.500	58	21Alp And	2.0730	11000.	233	32689	No
42	GOM_NL__2PRFIN20080531_190036_000001172069_00070_32689_4132.N1	31-MAY-2008 19:00:36	Dark	117.000	140	88Gam Peg	2.8340	26000.	234	32689	No

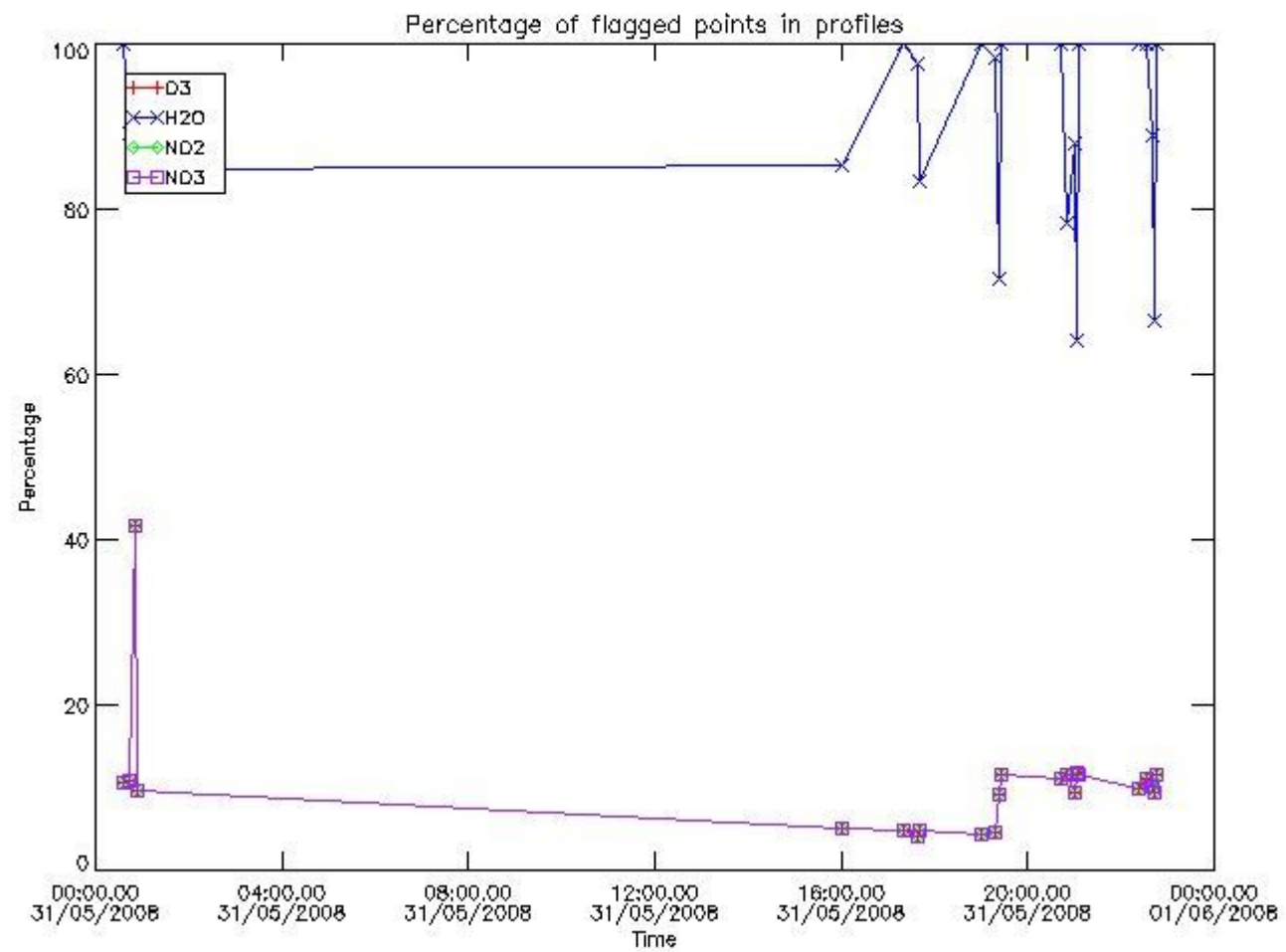
43	GOM_NL__2PRFIN20080531_191816_000001222069_00070_32689_4133.N1	31-MAY-2008 19:18:16	Dark	122.00	18	24Alp PsA	1.1660	9700.0	244	32689	No
44	GOM_NL__2PRFIN20080531_192243_000000552069_00071_32690_4125.N1	31-MAY-2008 19:22:43	Dark	55.000	63	Bet Gru	2.1500	2800.0	110	32690	No
45	GOM_NL__2PRFIN20080531_192436_000000452069_00071_32690_4126.N1	31-MAY-2008 19:24:36	Dark	44.500	31	Alp Gru	1.7340	15200.	89	32690	No
46	GOM_NL__2PRFIN20080531_192934_000000422069_00071_32690_4127.N1	31-MAY-2008 19:29:34	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32690	No
47	GOM_NL__2PRFIN20080531_193701_000000392069_00071_32690_4128.N1	31-MAY-2008 19:37:01	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	32690	No
48	GOM_NL__2PRFIN20080531_193842_000000472069_00071_32690_4129.N1	31-MAY-2008 19:38:42	Straylight	46.500	40	The Sco	1.8590	7100.0	93	32690	No
49	GOM_NL__2PRFIN20080531_194030_000000482069_00071_32690_4130.N1	31-MAY-2008 19:40:30	Twi_and_stray	47.500	25	35Lam Sco	1.6200	28000.	95	32690	No
50	GOM_NL__2PRFIN20080531_194216_000000462069_00071_32690_4131.N1	31-MAY-2008 19:42:16	Twi_and_stray	45.500	75	26Eps Sco	2.2910	4250.0	91	32690	No
51	GOM_NL__2PRFIN20080531_194418_000000462069_00071_32690_4132.N1	31-MAY-2008 19:44:18	Bright	45.500	136	23Tau Sco	2.8220	30000.	91	32690	No
52	GOM_NL__2PRFIN20080531_194623_000000382069_00071_32690_4133.N1	31-MAY-2008 19:46:23	Bright	38.000	80	7Del Sco	2.3160	30000.	76	32690	No
53	GOM_NL__2PRFIN20080531_194756_000000442069_00071_32690_4134.N1	31-MAY-2008 19:47:56	Bright	44.000	86	35Eta Oph	2.4300	10200.	88	32690	No
54	GOM_NL__2PRFIN20080531_194948_000000422069_00071_32690_4135.N1	31-MAY-2008 19:49:48	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	32690	No
55	GOM_NL__2PRFIN20080531_195159_000000402069_00071_32690_4136.N1	31-MAY-2008 19:51:59	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	32690	No
56	GOM_NL__2PRFIN20080531_195500_000000372069_00071_32690_4137.N1	31-MAY-2008 19:55:00	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	32690	No
57	GOM_NL__2PRFIN20080531_200054_000000372069_00071_32690_4138.N1	31-MAY-2008 20:00:54	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	32690	No
58	GOM_NL__2PRFIN20080531_200333_000000432069_00071_32690_4139.N1	31-MAY-2008 20:03:33	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	32690	No
59	GOM_NL__2PRFIN20080531_201130_000000382069_00071_32690_4140.N1	31-MAY-2008 20:11:30	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	32690	No
60	GOM_NL__2PRFIN20080531_202153_000000452069_00071_32690_4141.N1	31-MAY-2008 20:21:53	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	32690	No
61	GOM_NL__2PRFIN20080531_202654_000000492069_00071_32690_4142.N1	31-MAY-2008 20:26:54	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	32690	No
62	GOM_NL__2PRFIN20080531_203439_000000442069_00071_32690_4143.N1	31-MAY-2008 20:34:39	Bright	44.000	53	43Bet And	2.0480	3300.0	88	32690	No
63	GOM_NL__2PRFIN20080531_203722_000000532069_00071_32690_4144.N1	31-MAY-2008 20:37:22	Twi_and_stray	53.000	58	21Alp And	2.0730	11000.	106	32690	No
64	GOM_NL__2PRFIN20080531_204219_000000512069_00071_32690_4145.N1	31-MAY-2008 20:42:19	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	32690	No
65	GOM_NL__2PRFIN20080531_205118_000000452069_00071_32690_4146.N1	31-MAY-2008 20:51:18	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	32690	No
66	GOM_NL__2PRFIN20080531_210002_000000552069_00071_32690_4147.N1	31-MAY-2008 21:00:02	Dark	54.500	18	24Alp PsA	1.1660	9700.0	109	32690	No
67	GOM_NL__2PRFIN20080531_210320_000000562069_00072_32691_4132.N1	31-MAY-2008 21:03:20	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	32691	No
68	GOM_NL__2PRFIN20080531_210513_000000452069_00072_32691_4133.N1	31-MAY-2008 21:05:13	Dark	44.500	31	Alp Gru	1.7340	15200.	89	32691	No
69	GOM_NL__2PRFIN20080531_211011_000000432069_00072_32691_4134.N1	31-MAY-2008 21:10:11	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	32691	No
70	GOM_NL__2PRFIN20080531_211737_000000392069_00072_32691_4135.N1	31-MAY-2008 21:17:37	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	32691	No
71	GOM_NL__2PRFIN20080531_211918_000000472069_00072_32691_4136.N1	31-MAY-2008 21:19:18	Straylight	47.000	40	The Sco	1.8590	7100.0	94	32691	No
72	GOM_NL__2PRFIN20080531_212106_000000472069_00072_32691_4137.N1	31-MAY-2008 21:21:06	Twi_and_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32691	No
73	GOM_NL__2PRFIN20080531_212253_000000452069_00072_32691_4138.N1	31-MAY-2008 21:22:53	Twi_and_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	32691	No
74	GOM_NL__2PRFIN20080531_212454_000000432069_00072_32691_4139.N1	31-MAY-2008 21:24:54	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	32691	No
75	GOM_NL__2PRFIN20080531_212659_000000392069_00072_32691_4140.N1	31-MAY-2008 21:26:59	Bright	39.000	80	7Del Sco	2.3160	30000.	78	32691	No
76	GOM_NL__2PRFIN20080531_212832_000000452069_00072_32691_4141.N1	31-MAY-2008 21:28:32	Bright	45.000	86	35Eta Oph	2.4300	10200.	90	32691	No
77	GOM_NL__2PRFIN20080531_213024_000000412069_00072_32691_4142.N1	31-MAY-2008 21:30:24	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	32691	No
78	GOM_NL__2PRFIN20080531_213235_000000402069_00072_32691_4143.N1	31-MAY-2008 21:32:35	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	32691	No
79	GOM_NL__2PRFIN20080531_213536_000000372069_00072_32691_4144.N1	31-MAY-2008 21:35:36	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	32691	No
80	GOM_NL__2PRFIN20080531_214130_000000382069_00072_32691_4145.N1	31-MAY-2008 21:41:30	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	32691	No
81	GOM_NL__2PRFIN20080531_214408_000000432069_00072_32691_4146.N1	31-MAY-2008 21:44:08	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	32691	No
82	GOM_NL__2PRFIN20080531_215205_000000412069_00072_32691_4147.N1	31-MAY-2008 21:52:05	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	32691	No
83	GOM_NL__2PRFIN20080531_220229_000000472069_00072_32691_4148.N1	31-MAY-2008 22:02:29	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32691	No
84	GOM_NL__2PRFIN20080531_220730_000000562069_00072_32691_4149.N1	31-MAY-2008 22:07:30	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	32691	No
85	GOM_NL__2PRFIN20080531_221515_000000442069_00072_32691_4150.N1	31-MAY-2008 22:15:15	Bright	44.000	53	43Bet And	2.0480	3300.0	88	32691	No
86	GOM_NL__2PRFIN20080531_221758_000000542069_00072_32691_4151.N1	31-MAY-2008 22:17:58	Twi_and_stray	53.500	58	21Alp And	2.0730	11000.	107	32691	No
87	GOM_NL__2PRFIN20080531_222255_000000522069_00072_32691_4152.N1	31-MAY-2008 22:22:55	Dark	52.000	140	88Gam Peg	2.8340	26000.	104	32691	No
88	GOM_NL__2PRFIN20080531_223155_000000462069_00072_32691_4153.N1	31-MAY-2008 22:31:55	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	32691	No
89	GOM_NL__2PRFIN20080531_224039_000000552069_00072_32691_4154.N1	31-MAY-2008 22:40:39	Dark	55.000	18	24Alp PsA	1.1660	9700.0	110	32691	No
90	GOM_NL__2PRFIN20080531_224357_000000542069_00073_32692_4149.N1	31-MAY-2008 22:43:57	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	32692	No
91	GOM_NL__2PRFIN20080531_224550_000000442069_00073_32692_4150.N1	31-MAY-2008 22:45:50	Dark	44.000	31	Alp Gru	1.7340	15200.	88	32692	No
92	GOM_NL__2PRFIN20080531_225047_000000412069_00073_32692_4151.N1	31-MAY-2008 22:50:47	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32692	No
93	GOM_NL__2PRFIN20080531_225813_000000402069_00073_32692_4152.N1	31-MAY-2008 22:58:13	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	32692	No
94	GOM_NL__2PRFIN20080531_225955_000000472069_00073_32692_4153.N1	31-MAY-2008 22:59:55	Straylight	46.500	40	The Sco	1.8590	7100.0	93	32692	No
95	GOM_NL__2PRFIN20080531_230143_000000482069_00073_32692_4154.N1	31-MAY-2008 23:01:43	Twi_and_stray	48.000	25	35Lam Sco	1.6200	28000.	96	32692	No
96	GOM_NL__2PRFIN20080531_230329_000000512069_00073_32692_4155.N1	31-MAY-2008 23:03:29	Twi_and_stray	50.500	75	26Eps Sco	2.2910	4250.0	101	32692	No
97	GOM_NL__2PRFIN20080531_230531_000000492069_00073_32692_4156.N1	31-MAY-2008 23:05:31	Bright	49.000	136	23Tau Sco	2.8220	30000.	98	32692	No
98	GOM_NL__2PRFIN20080531_230735_000000392069_00073_32692_4157.N1	31-MAY-2008 23:07:35	Bright	38.500	80	7Del Sco	2.3160	30000.	77	32692	No
99	GOM_NL__2PRFIN20080531_230908_000000462069_00073_32692_4158.N1	31-MAY-2008 23:09:08	Bright	45.500	86	35Eta Oph	2.4300	10200.	91	32692	No
100	GOM_NL__2PRFIN20080531_231100_000000402069_00073_32692_4159.N1	31-MAY-2008 23:11:00	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	32692	No
101	GOM_NL__2PRFIN20080531_231311_000000392069_00073_32692_4160.N1	31-MAY-2008 23:13:11	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	32692	No

102	GOM_NL__2PRFIN20080531_231612_000000372069_00073_32692_4161.N1	31-MAY-2008 23:16:12	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	32692	No
103	GOM_NL__2PRFIN20080531_232206_000000382069_00073_32692_4162.N1	31-MAY-2008 23:22:06	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	32692	No
104	GOM_NL__2PRFIN20080531_232444_000000422069_00073_32692_4163.N1	31-MAY-2008 23:24:44	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	32692	No
105	GOM_NL__2PRFIN20080531_233241_000000392069_00073_32692_4164.N1	31-MAY-2008 23:32:41	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	32692	No
106	GOM_NL__2PRFIN20080531_234304_000000452069_00073_32692_4165.N1	31-MAY-2008 23:43:04	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	32692	No
107	GOM_NL__2PRFIN20080531_234806_000000562069_00073_32692_4166.N1	31-MAY-2008 23:48:06	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	32692	No
108	GOM_NL__2PRFIN20080531_235551_000000402069_00073_32692_4167.N1	31-MAY-2008 23:55:51	Bright	40.000	53	43Bet And	2.0480	3300.0	80	32692	No
109	GOM_NL__2PRFIN20080531_235834_000000532069_00073_32692_4168.N1	31-MAY-2008 23:58:34	Twilight_stray	53.000	58	21Alp And	2.0730	11000.	106	32692	No

### 3. Quality information per product

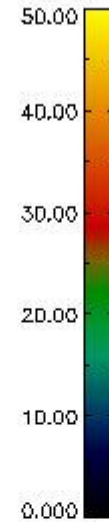
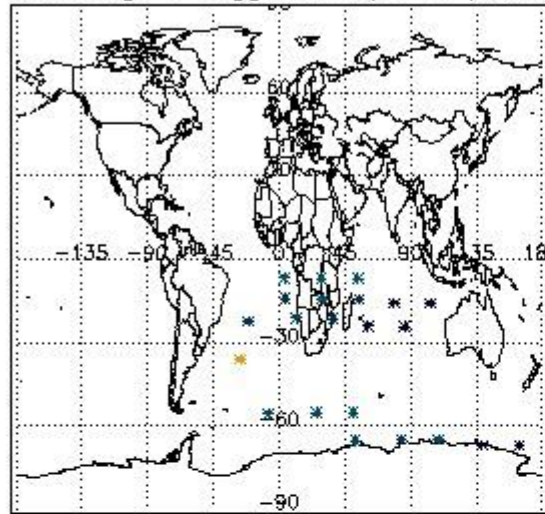
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

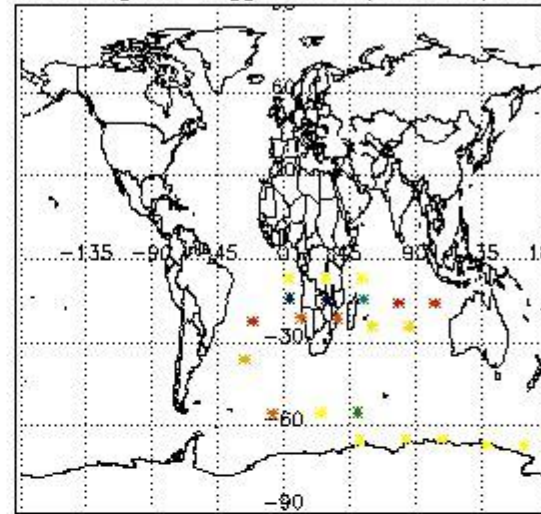


#### 3.2 Plot quality information per product (world map)

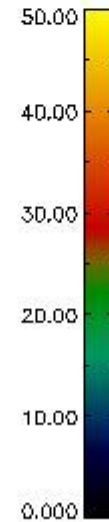
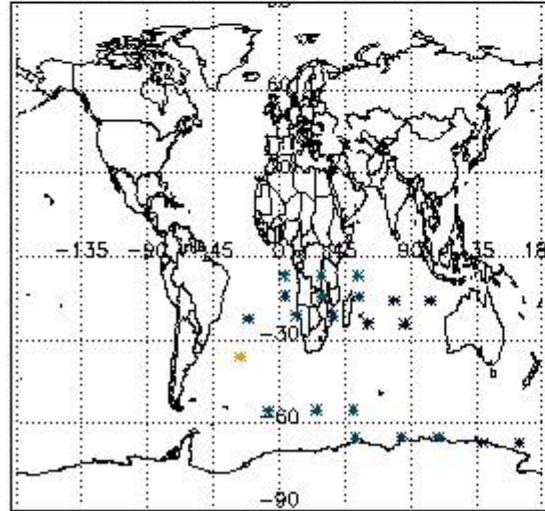
Percentage of flagged data per O3 profile



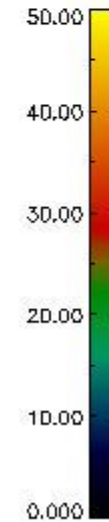
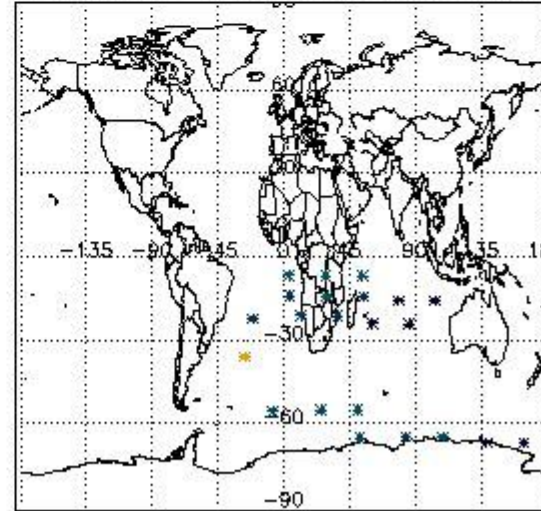
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

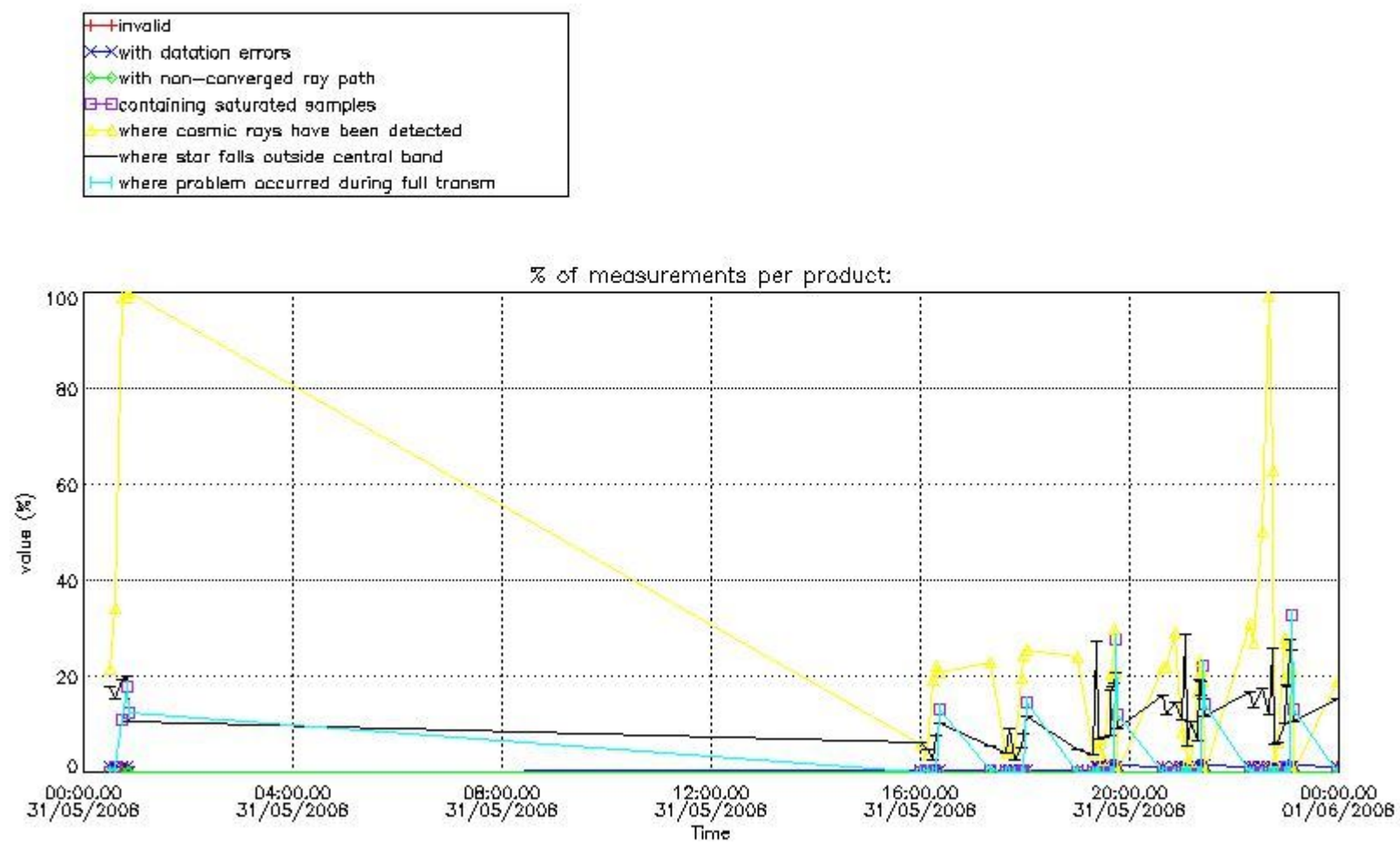


#### 4. Level 1 quality information per product

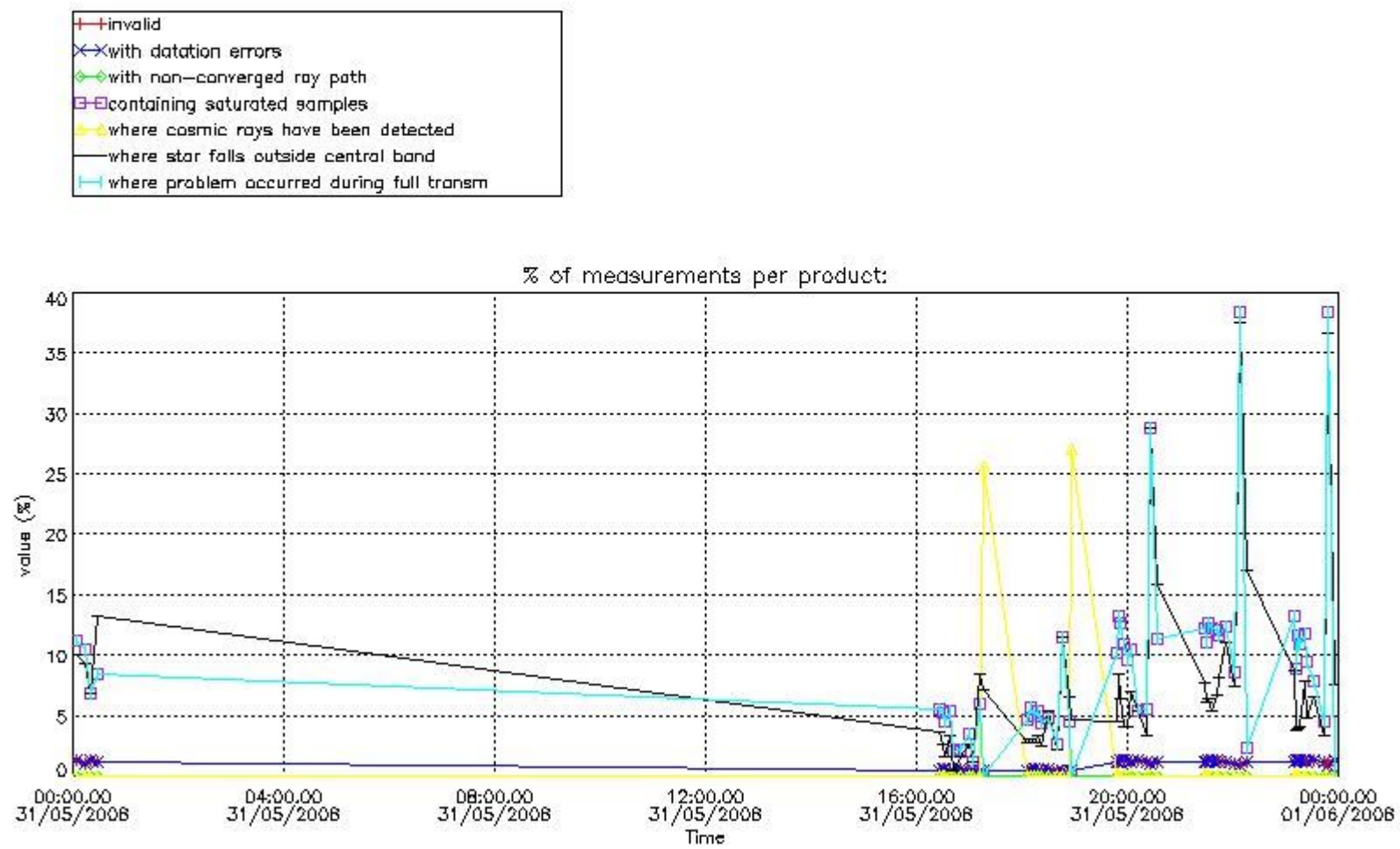
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



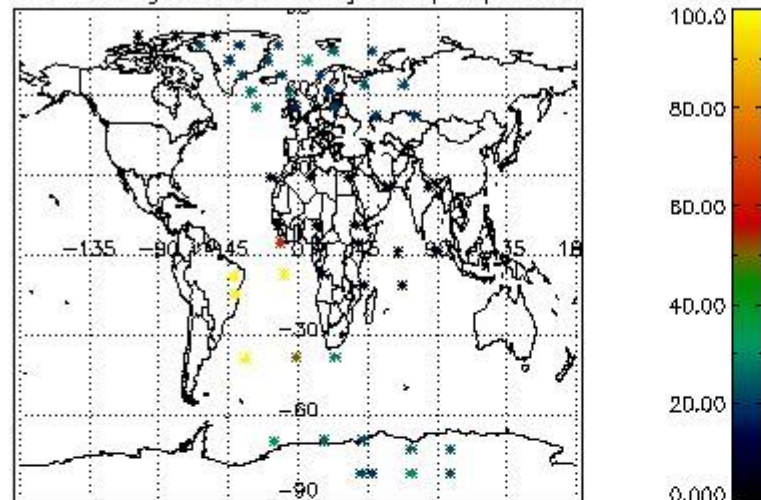
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



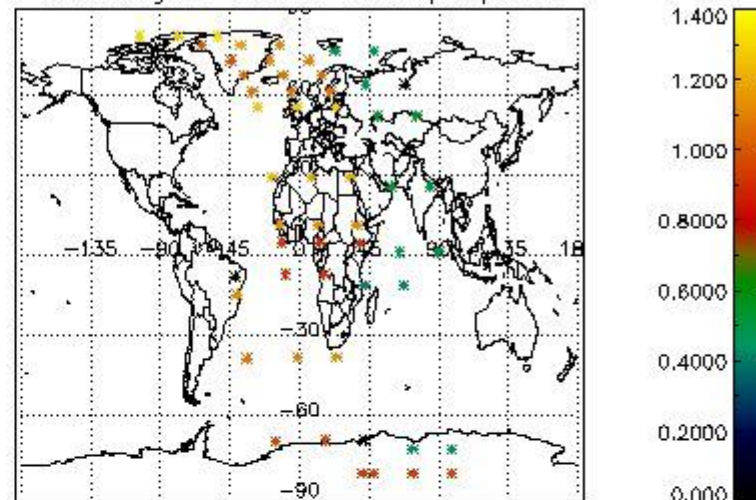
4.2 Plot quality information per product coming from level 1b processing (world map)

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

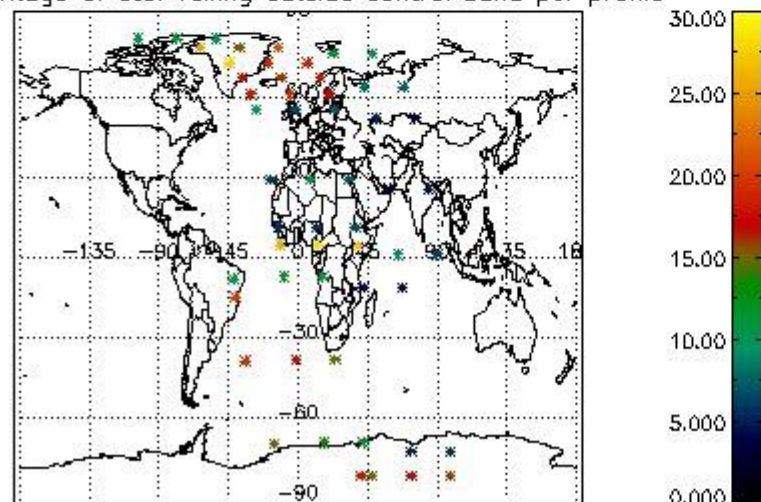
Percentage of cosmic ray hits per profile



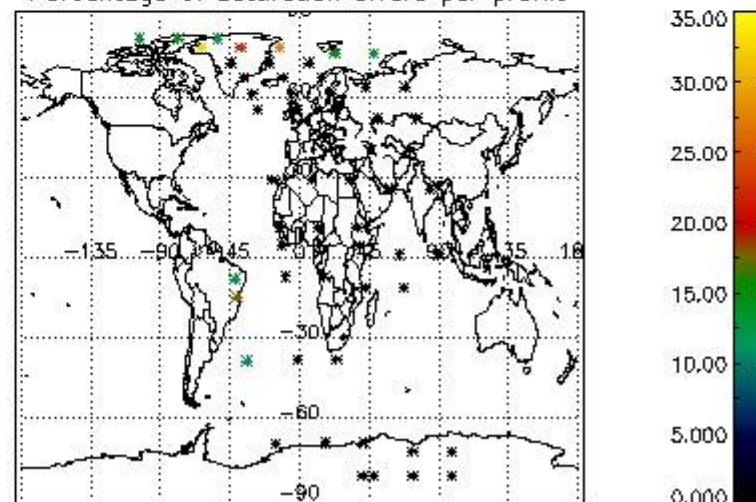
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

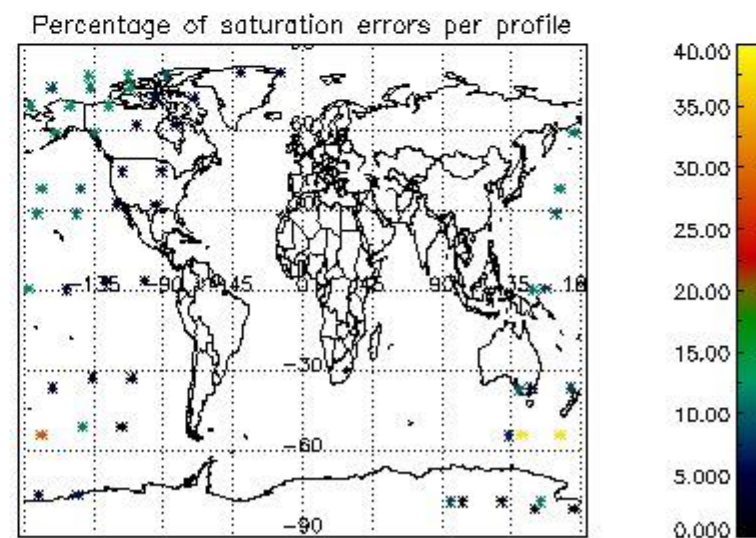
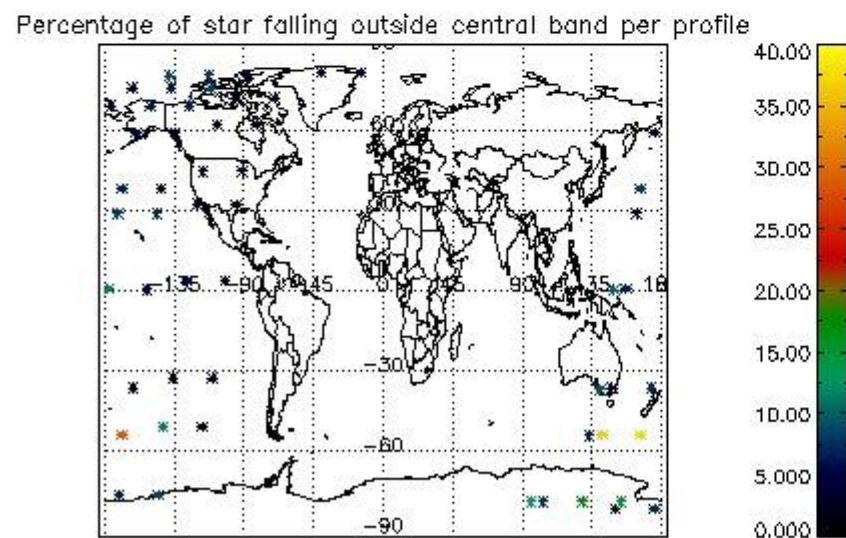
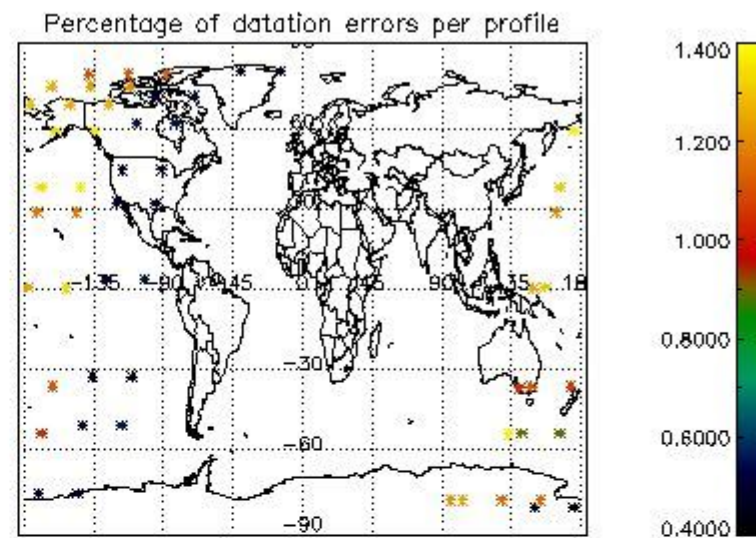
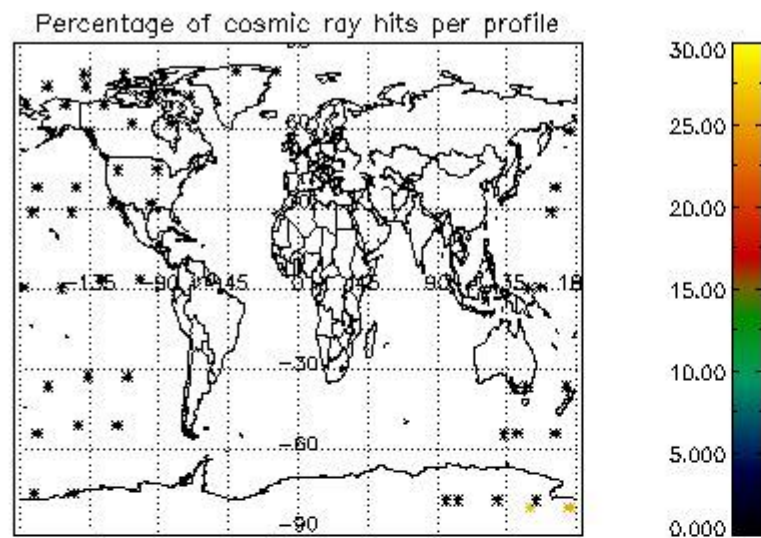


Percentage of saturation errors per profile



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

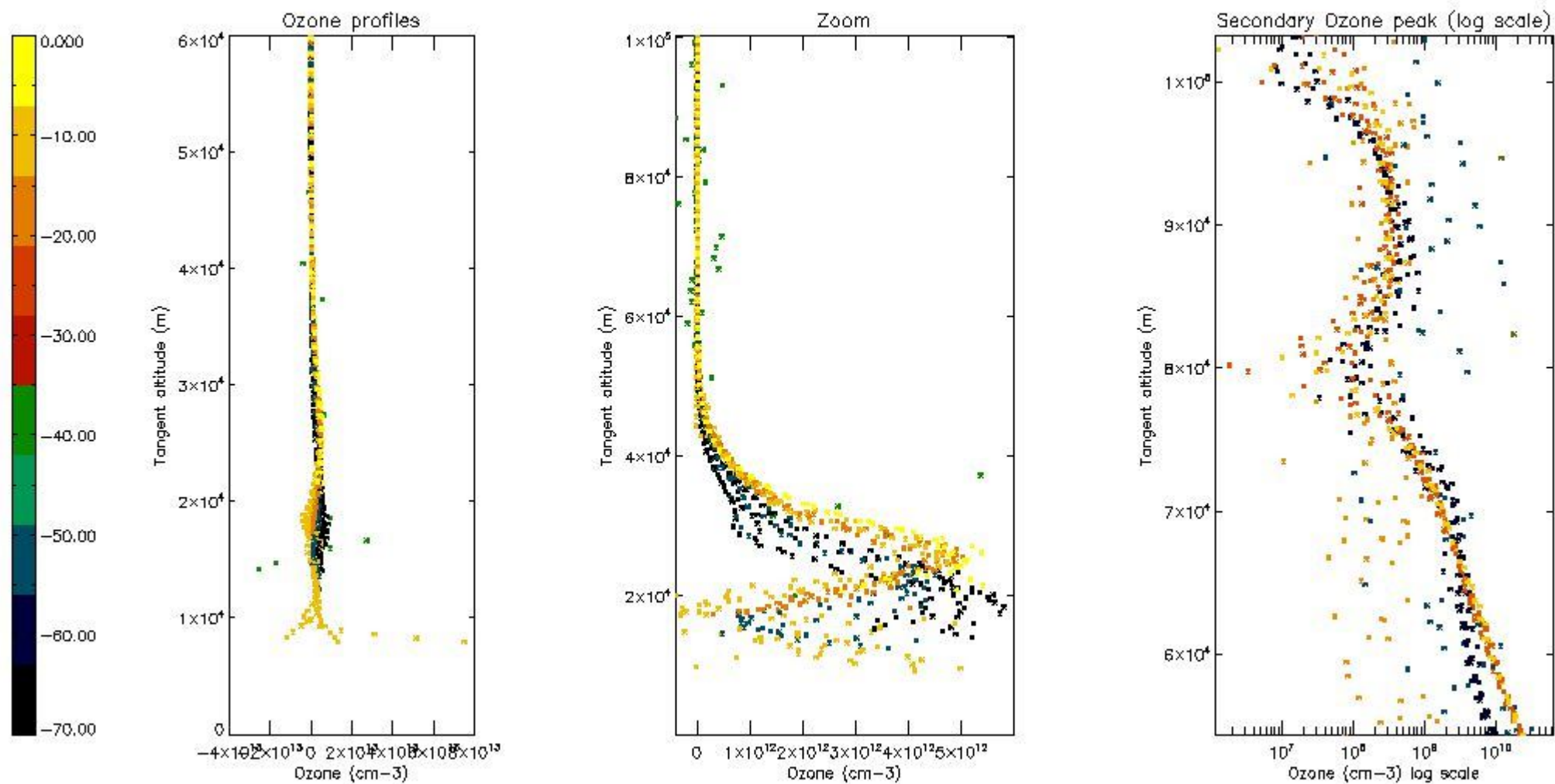
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	8

STD < 10	6
STD < 5	4

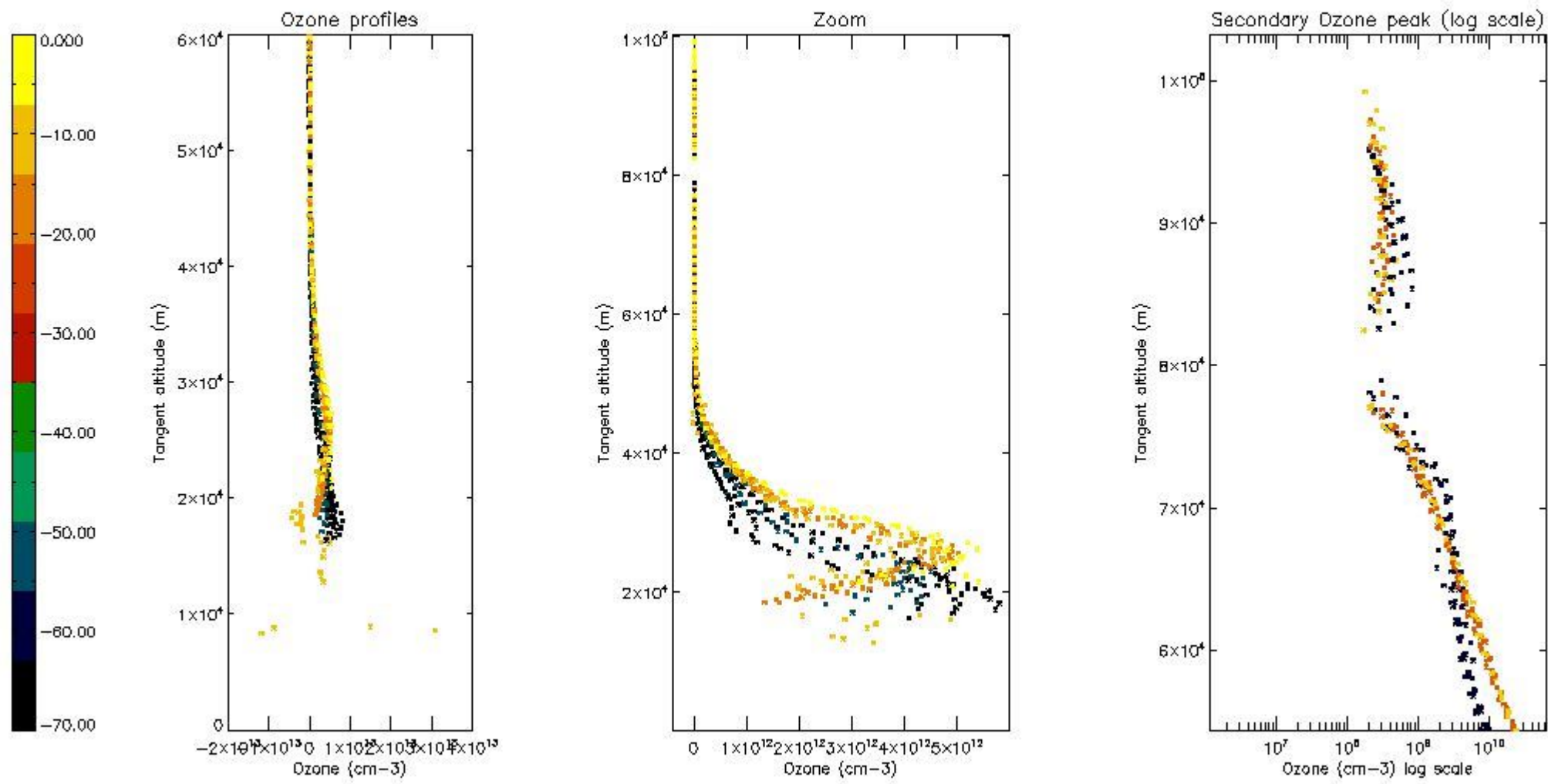
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



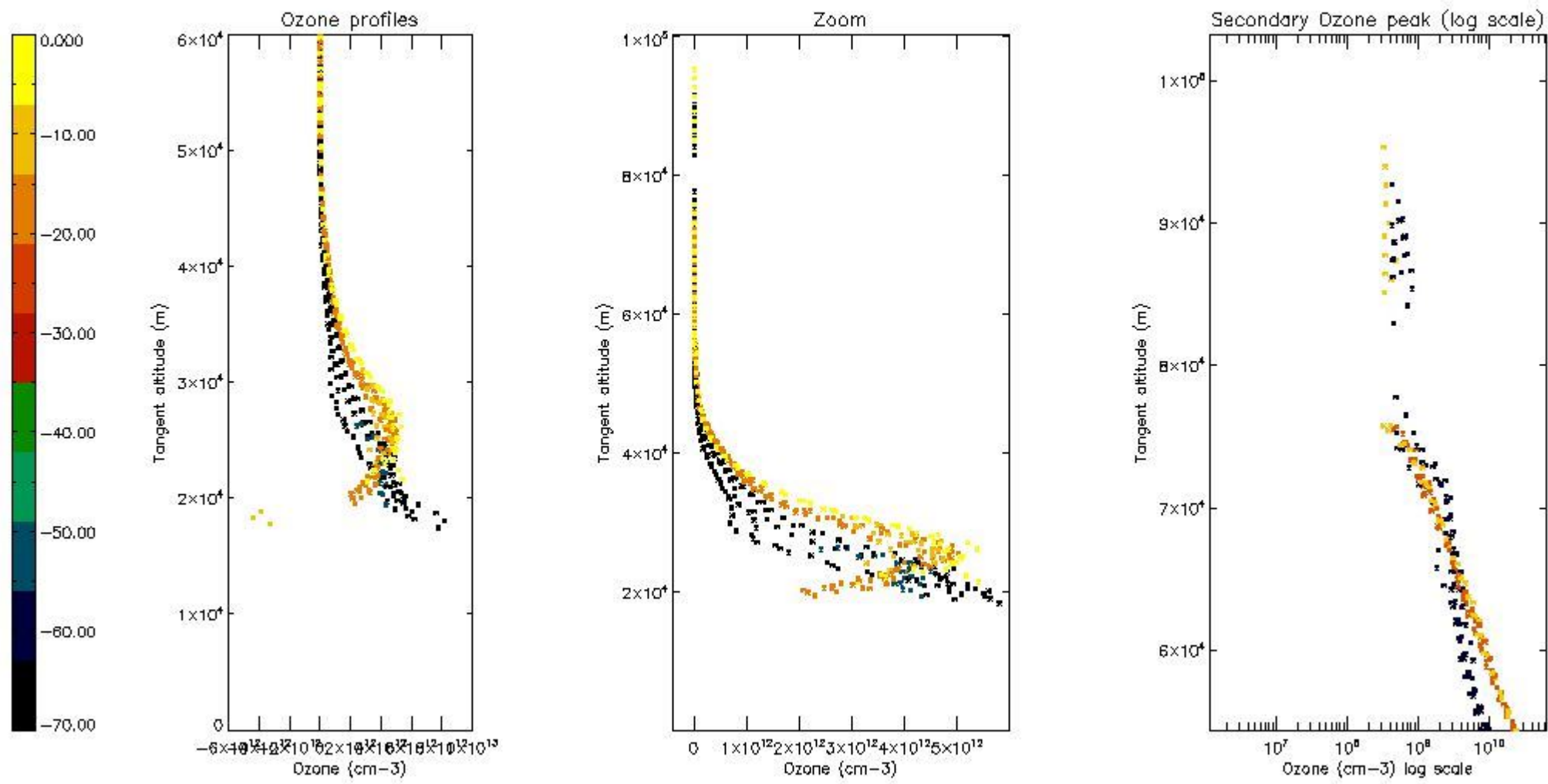
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



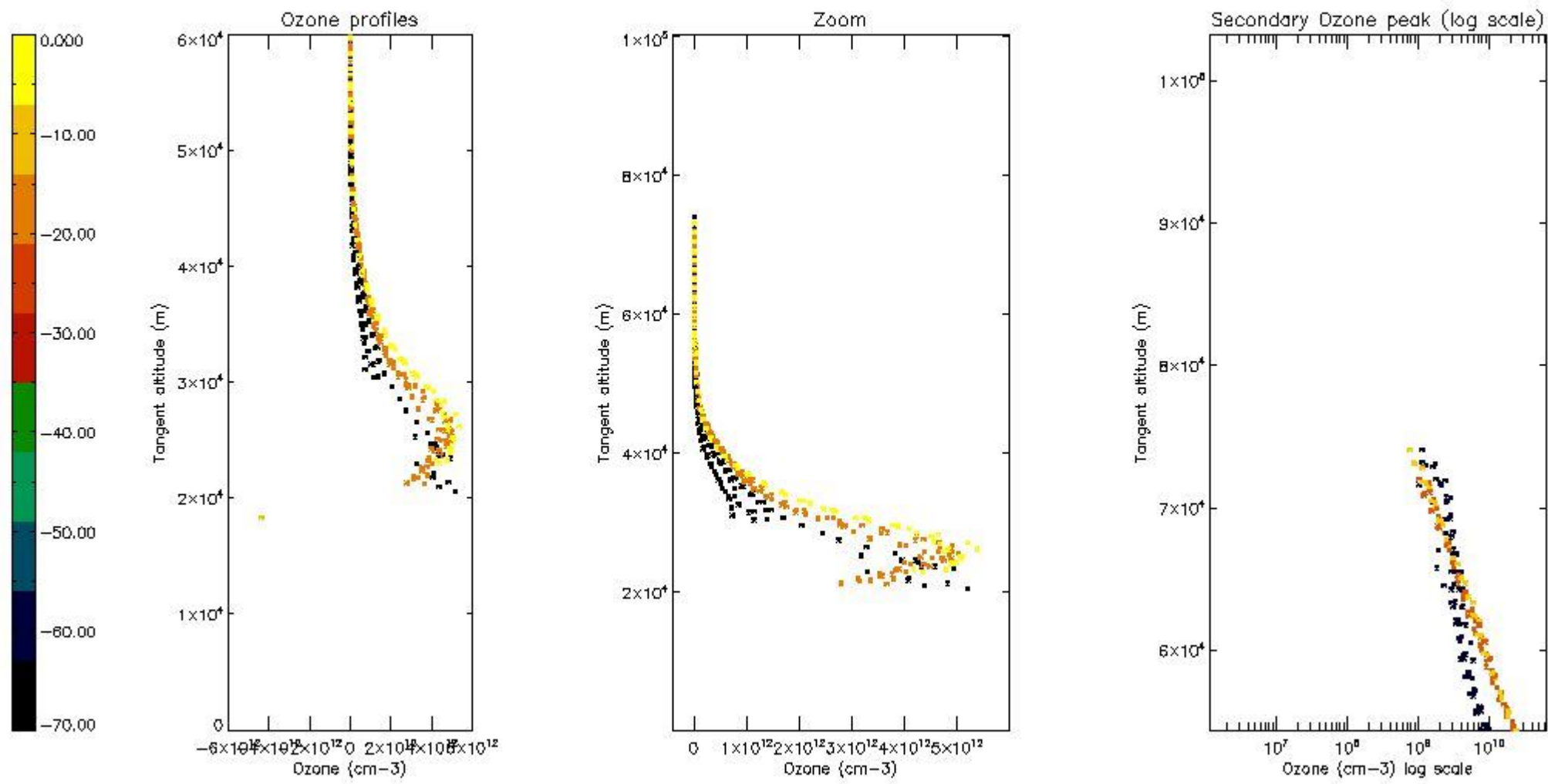
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



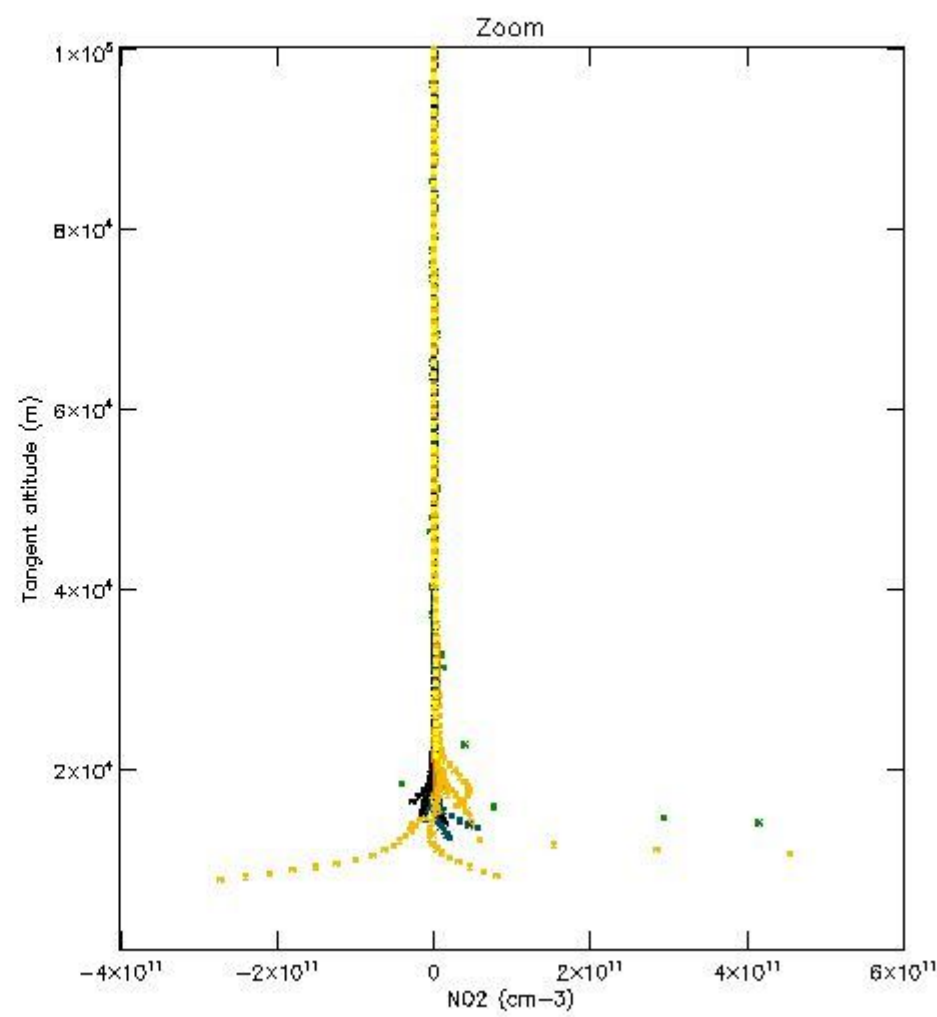
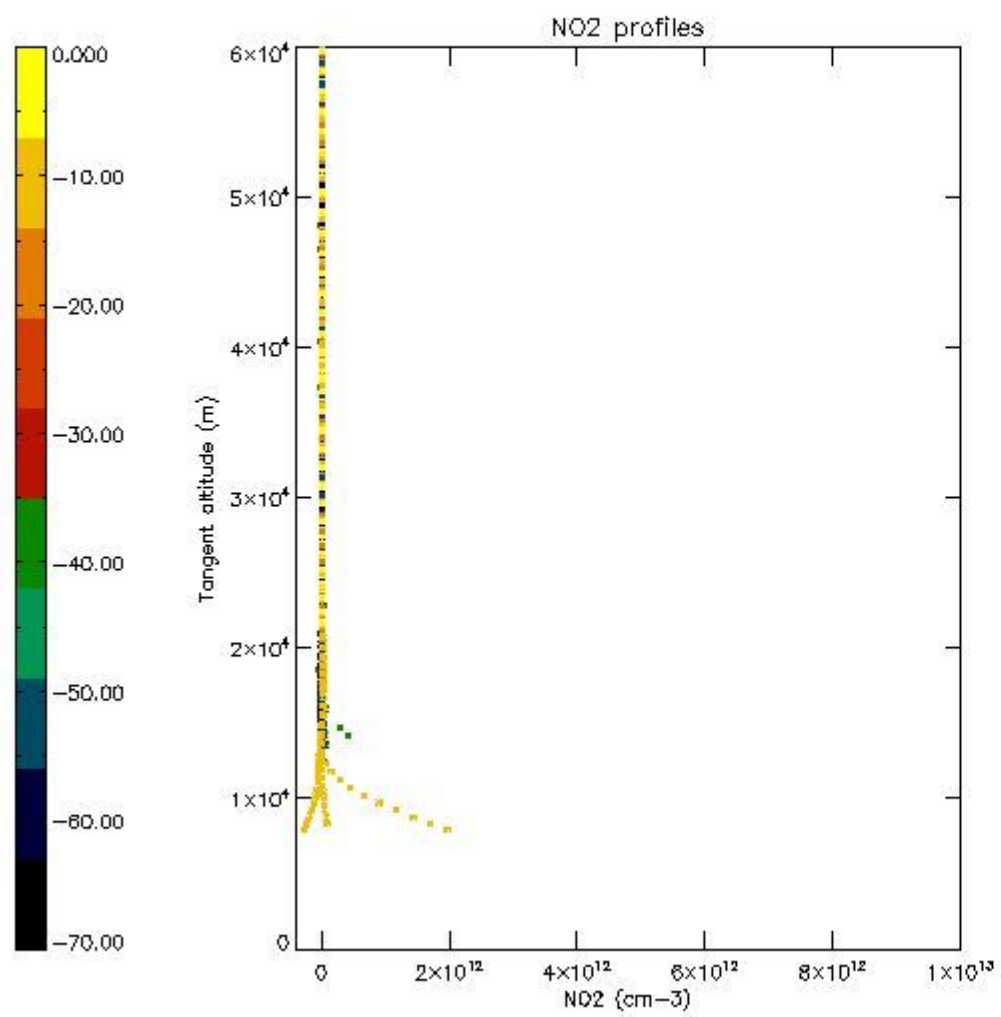
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



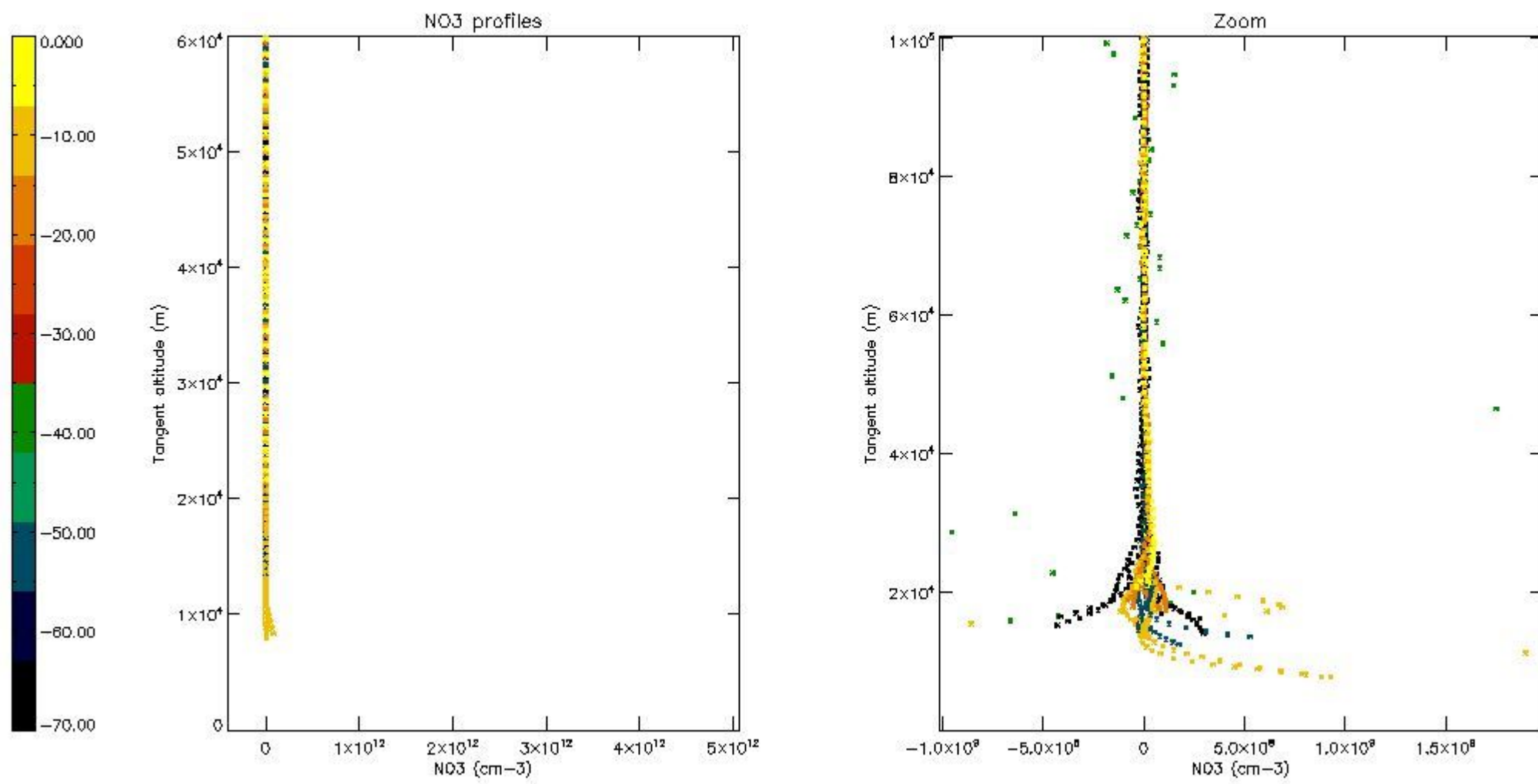
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



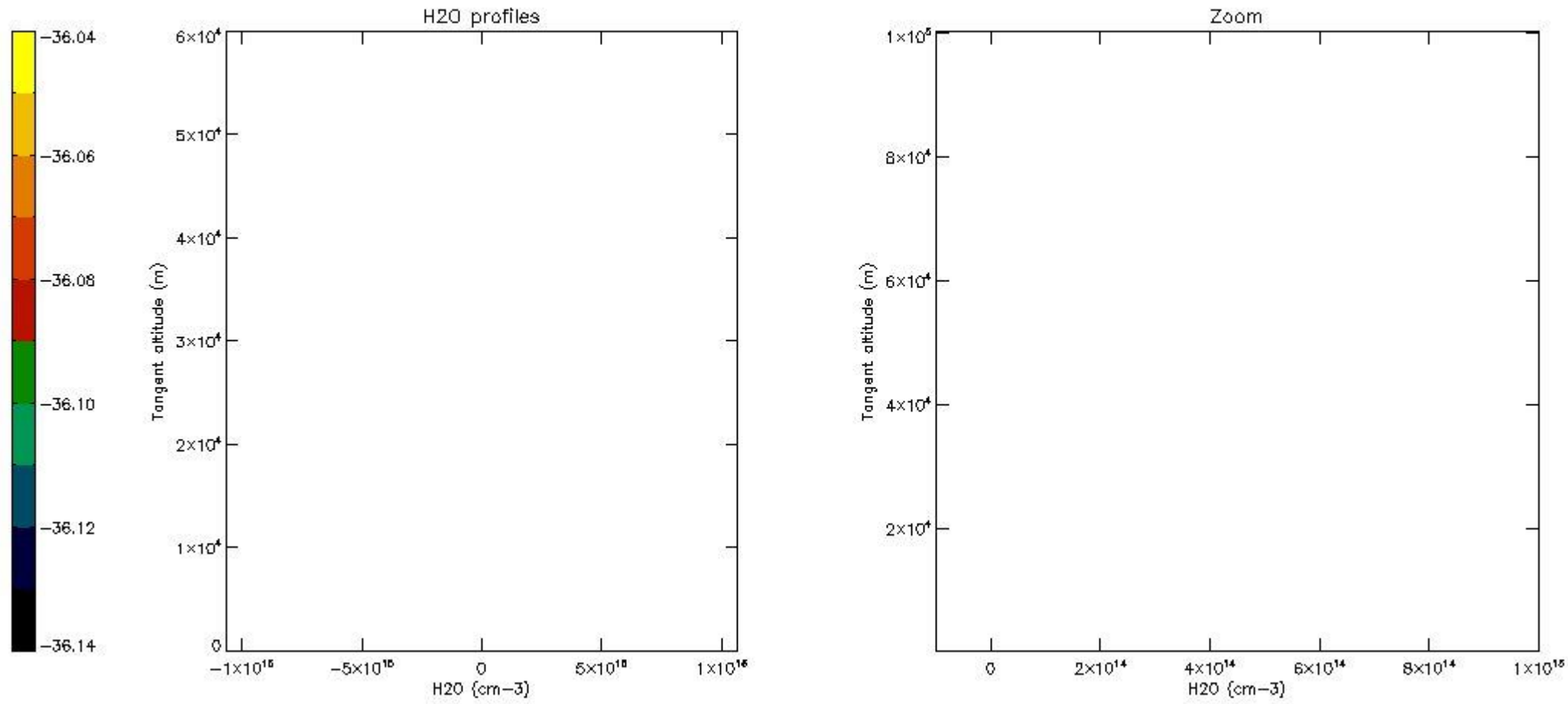
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	31-MAY-2008 00:04:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-MAY-2008 00:04:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-MAY-2008 00:04:22



# 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	25APR2013 14:57:19
Data source version	GOMOS/6.01
Start time of products	31-05-2008 (31MAY2008 00:00:00)
Stop time of products	01-06-2008 (01JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	109
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__2PRFIN20080531_000422_00000402069_00059_32678_3870.N1	31-MAY-2008 00:04:22	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	32678	No
2	GOM_NL__2PRFIN20080531_001449_00000482069_00059_32678_3871.N1	31-MAY-2008 00:14:49	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	32678	No
3	GOM_NL__2PRFIN20080531_001944_00000372069_00059_32678_3872.N1	31-MAY-2008 00:19:44	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	32678	No
4	GOM_NL__2PRFIN20080531_002727_00000422069_00059_32678_3873.N1	31-MAY-2008 00:27:27	Bright	41.500	53	43Bet And	2.0480	3300.0	83	32678	No
5	GOM_NL__2PRFIN20080531_003008_00000542069_00059_32678_3874.N1	31-MAY-2008 00:30:08	Twilight	53.500	58	21Alp And	2.0730	11000.	107	32678	No
6	GOM_NL__2PRFIN20080531_003501_00000532069_00059_32678_3875.N1	31-MAY-2008 00:35:01	Dark	52.500	140	88Gam Peg	2.8340	26000.	105	32678	No
7	GOM_NL__2PRFIN20080531_004400_00000472069_00059_32678_3876.N1	31-MAY-2008 00:44:00	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	32678	No
8	GOM_NL__2PRFIN20080531_005042_00000452069_00059_32678_3877.N1	31-MAY-2008 00:50:42	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	32678	No
9	GOM_NL__2PRFIN20080531_005235_00000532069_00059_32678_3878.N1	31-MAY-2008 00:52:35	Dark	53.000	18	24Alp PsA	1.1660	9700.0	106	32678	No
10	GOM_NL__2PRFIN20080531_160033_000001032069_00069_32688_4109.N1	31-MAY-2008 16:00:33	Dark	103.000	63	Bet Gru	2.1500	2800.0	206	32688	No
11	GOM_NL__2PRFIN20080531_160726_00000992069_00069_32688_4110.N1	31-MAY-2008 16:07:26	Straylight	98.500	45	Alp Pav	1.9400	26000.	197	32688	No
12	GOM_NL__2PRFIN20080531_161454_00000932069_00069_32688_4111.N1	31-MAY-2008 16:14:54	Straylight	93.000	147	Alp Ara	2.8770	26000.	186	32688	No
13	GOM_NL__2PRFIN20080531_161818_000001062069_00069_32688_4112.N1	31-MAY-2008 16:18:18	Twilight	106.000	25	35Lam Sco	1.6200	28000.	212	32688	No
14	GOM_NL__2PRFIN20080531_162211_000001022069_00069_32688_4113.N1	31-MAY-2008 16:22:11	Bright	102.000	136	23Tau Sco	2.8220	30000.	204	32688	No
15	GOM_NL__2PRFIN20080531_162541_000001102069_00069_32688_4114.N1	31-MAY-2008 16:25:41	Bright	109.500	86	35Eta Oph	2.4300	10200.	219	32688	No
16	GOM_NL__2PRFIN20080531_162951_00000962069_00069_32688_4115.N1	31-MAY-2008 16:29:51	Bright	95.500	120	1Del Oph	2.7340	3200.0	191	32688	No
17	GOM_NL__2PRFIN20080531_163255_00000902069_00069_32688_4116.N1	31-MAY-2008 16:32:55	Bright	90.000	102	24Alp Ser	2.6000	4250.0	180	32688	No
18	GOM_NL__2PRFIN20080531_163756_000001032069_00069_32688_4117.N1	31-MAY-2008 16:37:56	Bright	103.000	127	27Bet Her	2.7810	4700.0	206	32688	No
19	GOM_NL__2PRFIN20080531_164123_000001012069_00069_32688_4118.N1	31-MAY-2008 16:41:23	Bright	101.000	133	40Zet Her	2.8070	6000.0	202	32688	No
20	GOM_NL__2PRFIN20080531_164925_00000912069_00069_32688_4119.N1	31-MAY-2008 16:49:25	Bright	91.000	119	14Eta Dra	2.7270	4700.0	182	32688	No
21	GOM_NL__2PRFIN20080531_165937_000001132069_00069_32688_4120.N1	31-MAY-2008 16:59:37	Bright	113.000	89	5Alp Cep	2.4510	8000.0	226	32688	No
22	GOM_NL__2PRFIN20080531_170448_00000902069_00069_32688_4121.N1	31-MAY-2008 17:04:48	Bright	89.500	76	27Gam Cas	2.3000	30000.	179	32688	No
23	GOM_NL__2PRFIN20080531_171232_000001012069_00069_32688_4122.N1	31-MAY-2008 17:12:32	Bright	100.500	53	43Bet And	2.0480	3300.0	201	32688	No
24	GOM_NL__2PRFIN20080531_171503_000001192069_00069_32688_4123.N1	31-MAY-2008 17:15:03	Twilight	119.000	58	21Alp And	2.0730	11000.	238	32688	No
25	GOM_NL__2PRFIN20080531_172000_000001172069_00069_32688_4124.N1	31-MAY-2008 17:20:00	Dark	117.000	140	88Gam Peg	2.8340	26000.	234	32688	No
26	GOM_NL__2PRFIN20080531_173738_000001232069_00069_32688_4125.N1	31-MAY-2008 17:37:38	Dark	122.500	18	24Alp PsA	1.1660	9700.0	245	32688	No
27	GOM_NL__2PRFIN20080531_174109_000001062069_00070_32689_4117.N1	31-MAY-2008 17:41:09	Dark	106.000	63	Bet Gru	2.1500	2800.0	212	32689	No
28	GOM_NL__2PRFIN20080531_174802_00000962069_00070_32689_4118.N1	31-MAY-2008 17:48:02	Straylight	96.000	45	Alp Pav	1.9400	26000.	192	32689	No
29	GOM_NL__2PRFIN20080531_175531_00000952069_00070_32689_4119.N1	31-MAY-2008 17:55:31	Straylight	95.000	147	Alp Ara	2.8770	26000.	190	32689	No
30	GOM_NL__2PRFIN20080531_175855_000001072069_00070_32689_4120.N1	31-MAY-2008 17:58:55	Twilight	106.500	25	35Lam Sco	1.6200	28000.	213	32689	No
31	GOM_NL__2PRFIN20080531_180247_000001042069_00070_32689_4121.N1	31-MAY-2008 18:02:47	Bright	103.500	136	23Tau Sco	2.8220	30000.	207	32689	No
32	GOM_NL__2PRFIN20080531_180617_000001082069_00070_32689_4122.N1	31-MAY-2008 18:06:17	Bright	108.000	86	35Eta Oph	2.4300	10200.	216	32689	No
33	GOM_NL__2PRFIN20080531_181027_00000962069_00070_32689_4123.N1	31-MAY-2008 18:10:27	Bright	96.000	120	1Del Oph	2.7340	3200.0	192	32689	No
34	GOM_NL__2PRFIN20080531_181331_00000912069_00070_32689_4124.N1	31-MAY-2008 18:13:31	Bright	90.500	102	24Alp Ser	2.6000	4250.0	181	32689	No
35	GOM_NL__2PRFIN20080531_181832_000001032069_00070_32689_4125.N1	31-MAY-2008 18:18:32	Bright	103.000	127	27Bet Her	2.7810	4700.0	206	32689	No
36	GOM_NL__2PRFIN20080531_182158_000001032069_00070_32689_4126.N1	31-MAY-2008 18:21:58	Bright	102.500	133	40Zet Her	2.8070	6000.0	205	32689	No
37	GOM_NL__2PRFIN20080531_183001_00000942069_00070_32689_4127.N1	31-MAY-2008 18:30:01	Bright	93.500	119	14Eta Dra	2.7270	4700.0	187	32689	No
38	GOM_NL__2PRFIN20080531_184012_000001122069_00070_32689_4128.N1	31-MAY-2008 18:40:12	Bright	112.000	89	5Alp Cep	2.4510	8000.0	224	32689	No
39	GOM_NL__2PRFIN20080531_184524_000001002069_00070_32689_4129.N1	31-MAY-2008 18:45:24	Bright	100.000	76	27Gam Cas	2.3000	30000.	200	32689	No
40	GOM_NL__2PRFIN20080531_185308_00000992069_00070_32689_4130.N1	31-MAY-2008 18:53:08	Bright	99.000	53	43Bet And	2.0480	3300.0	198	32689	No
41	GOM_NL__2PRFIN20080531_185539_000001172069_00070_32689_4131.N1	31-MAY-2008 18:55:39	Twilight	116.500	58	21Alp And	2.0730	11000.	233	32689	No
42	GOM_NL__2PRFIN20080531_190036_000001172069_00070_32689_4132.N1	31-MAY-2008 19:00:36	Dark	117.000	140	88Gam Peg	2.8340	26000.	234	32689	No

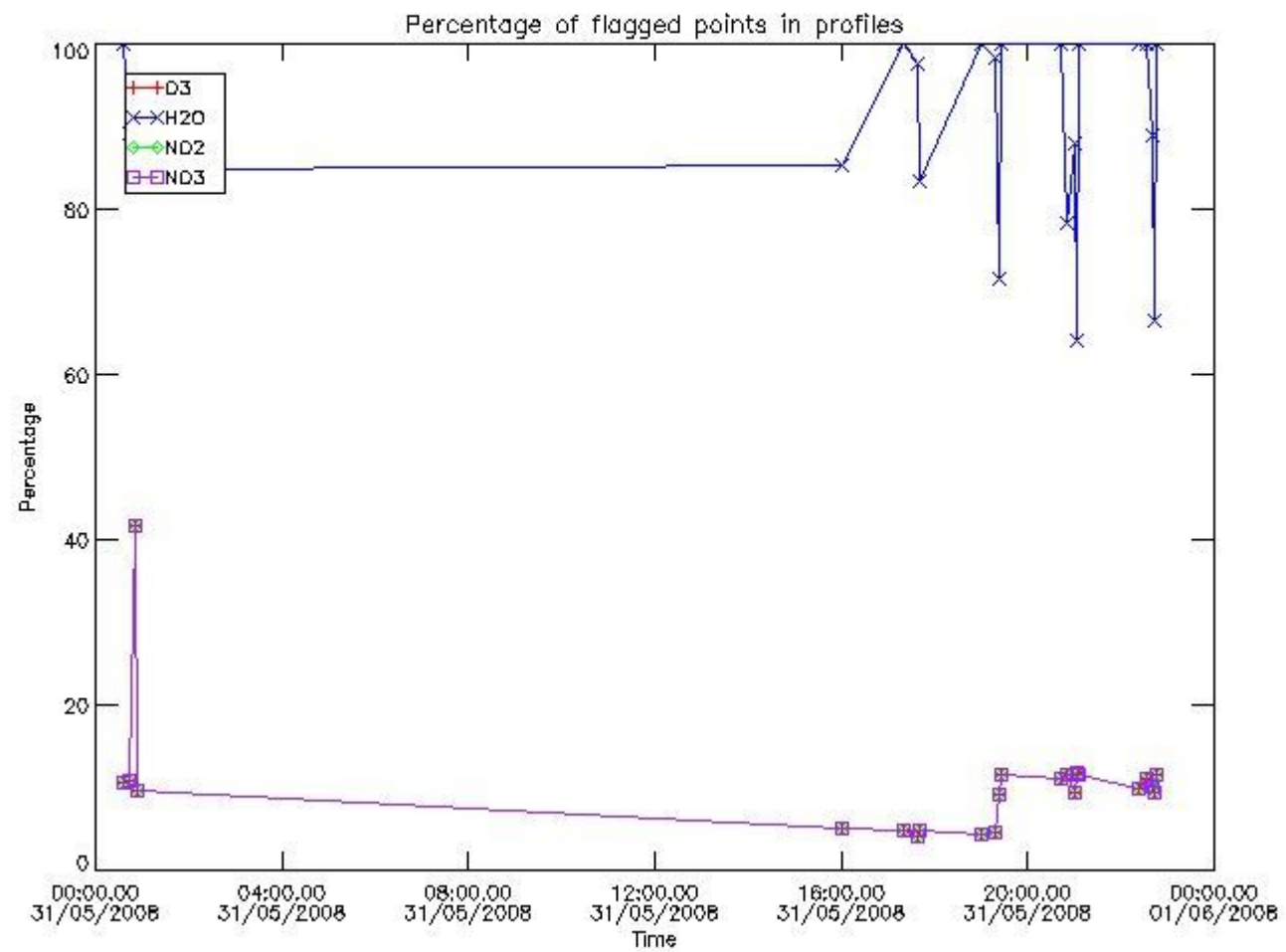
43	GOM_NL__2PRFIN20080531_191816_000001222069_00070_32689_4133.N1	31-MAY-2008 19:18:16	Dark	122.00	18	24Alp PsA	1.1660	9700.0	244	32689	No
44	GOM_NL__2PRFIN20080531_192243_000000552069_00071_32690_4125.N1	31-MAY-2008 19:22:43	Dark	55.000	63	Bet Gru	2.1500	2800.0	110	32690	No
45	GOM_NL__2PRFIN20080531_192436_000000452069_00071_32690_4126.N1	31-MAY-2008 19:24:36	Dark	44.500	31	Alp Gru	1.7340	15200.	89	32690	No
46	GOM_NL__2PRFIN20080531_192934_000000422069_00071_32690_4127.N1	31-MAY-2008 19:29:34	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32690	No
47	GOM_NL__2PRFIN20080531_193701_000000392069_00071_32690_4128.N1	31-MAY-2008 19:37:01	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	32690	No
48	GOM_NL__2PRFIN20080531_193842_000000472069_00071_32690_4129.N1	31-MAY-2008 19:38:42	Straylight	46.500	40	The Sco	1.8590	7100.0	93	32690	No
49	GOM_NL__2PRFIN20080531_194030_000000482069_00071_32690_4130.N1	31-MAY-2008 19:40:30	Twilight_and_stray	47.500	25	35Lam Sco	1.6200	28000.	95	32690	No
50	GOM_NL__2PRFIN20080531_194216_000000462069_00071_32690_4131.N1	31-MAY-2008 19:42:16	Twilight_and_stray	45.500	75	26Eps Sco	2.2910	4250.0	91	32690	No
51	GOM_NL__2PRFIN20080531_194418_000000462069_00071_32690_4132.N1	31-MAY-2008 19:44:18	Bright	45.500	136	23Tau Sco	2.8220	30000.	91	32690	No
52	GOM_NL__2PRFIN20080531_194623_000000382069_00071_32690_4133.N1	31-MAY-2008 19:46:23	Bright	38.000	80	7Del Sco	2.3160	30000.	76	32690	No
53	GOM_NL__2PRFIN20080531_194756_000000442069_00071_32690_4134.N1	31-MAY-2008 19:47:56	Bright	44.000	86	35Eta Oph	2.4300	10200.	88	32690	No
54	GOM_NL__2PRFIN20080531_194948_000000422069_00071_32690_4135.N1	31-MAY-2008 19:49:48	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	32690	No
55	GOM_NL__2PRFIN20080531_195159_000000402069_00071_32690_4136.N1	31-MAY-2008 19:51:59	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	32690	No
56	GOM_NL__2PRFIN20080531_195500_000000372069_00071_32690_4137.N1	31-MAY-2008 19:55:00	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	32690	No
57	GOM_NL__2PRFIN20080531_200054_000000372069_00071_32690_4138.N1	31-MAY-2008 20:00:54	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	32690	No
58	GOM_NL__2PRFIN20080531_200333_000000432069_00071_32690_4139.N1	31-MAY-2008 20:03:33	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	32690	No
59	GOM_NL__2PRFIN20080531_201130_000000382069_00071_32690_4140.N1	31-MAY-2008 20:11:30	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	32690	No
60	GOM_NL__2PRFIN20080531_202153_000000452069_00071_32690_4141.N1	31-MAY-2008 20:21:53	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	32690	No
61	GOM_NL__2PRFIN20080531_202654_000000492069_00071_32690_4142.N1	31-MAY-2008 20:26:54	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	32690	No
62	GOM_NL__2PRFIN20080531_203439_000000442069_00071_32690_4143.N1	31-MAY-2008 20:34:39	Bright	44.000	53	43Bet And	2.0480	3300.0	88	32690	No
63	GOM_NL__2PRFIN20080531_203722_000000532069_00071_32690_4144.N1	31-MAY-2008 20:37:22	Twilight_and_stray	53.000	58	21Alp And	2.0730	11000.	106	32690	No
64	GOM_NL__2PRFIN20080531_204219_000000512069_00071_32690_4145.N1	31-MAY-2008 20:42:19	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	32690	No
65	GOM_NL__2PRFIN20080531_205118_000000452069_00071_32690_4146.N1	31-MAY-2008 20:51:18	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	32690	No
66	GOM_NL__2PRFIN20080531_210002_000000552069_00071_32690_4147.N1	31-MAY-2008 21:00:02	Dark	54.500	18	24Alp PsA	1.1660	9700.0	109	32690	No
67	GOM_NL__2PRFIN20080531_210320_000000562069_00072_32691_4132.N1	31-MAY-2008 21:03:20	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	32691	No
68	GOM_NL__2PRFIN20080531_210513_000000452069_00072_32691_4133.N1	31-MAY-2008 21:05:13	Dark	44.500	31	Alp Gru	1.7340	15200.	89	32691	No
69	GOM_NL__2PRFIN20080531_211011_000000432069_00072_32691_4134.N1	31-MAY-2008 21:10:11	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	32691	No
70	GOM_NL__2PRFIN20080531_211737_000000392069_00072_32691_4135.N1	31-MAY-2008 21:17:37	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	32691	No
71	GOM_NL__2PRFIN20080531_211918_000000472069_00072_32691_4136.N1	31-MAY-2008 21:19:18	Straylight	47.000	40	The Sco	1.8590	7100.0	94	32691	No
72	GOM_NL__2PRFIN20080531_212106_000000472069_00072_32691_4137.N1	31-MAY-2008 21:21:06	Twilight_and_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32691	No
73	GOM_NL__2PRFIN20080531_212253_000000452069_00072_32691_4138.N1	31-MAY-2008 21:22:53	Twilight_and_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	32691	No
74	GOM_NL__2PRFIN20080531_212454_000000432069_00072_32691_4139.N1	31-MAY-2008 21:24:54	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	32691	No
75	GOM_NL__2PRFIN20080531_212659_000000392069_00072_32691_4140.N1	31-MAY-2008 21:26:59	Bright	39.000	80	7Del Sco	2.3160	30000.	78	32691	No
76	GOM_NL__2PRFIN20080531_212832_000000452069_00072_32691_4141.N1	31-MAY-2008 21:28:32	Bright	45.000	86	35Eta Oph	2.4300	10200.	90	32691	No
77	GOM_NL__2PRFIN20080531_213024_000000412069_00072_32691_4142.N1	31-MAY-2008 21:30:24	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	32691	No
78	GOM_NL__2PRFIN20080531_213235_000000402069_00072_32691_4143.N1	31-MAY-2008 21:32:35	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	32691	No
79	GOM_NL__2PRFIN20080531_213536_000000372069_00072_32691_4144.N1	31-MAY-2008 21:35:36	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	32691	No
80	GOM_NL__2PRFIN20080531_214130_000000382069_00072_32691_4145.N1	31-MAY-2008 21:41:30	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	32691	No
81	GOM_NL__2PRFIN20080531_214408_000000432069_00072_32691_4146.N1	31-MAY-2008 21:44:08	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	32691	No
82	GOM_NL__2PRFIN20080531_215205_000000412069_00072_32691_4147.N1	31-MAY-2008 21:52:05	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	32691	No
83	GOM_NL__2PRFIN20080531_220229_000000472069_00072_32691_4148.N1	31-MAY-2008 22:02:29	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32691	No
84	GOM_NL__2PRFIN20080531_220730_000000562069_00072_32691_4149.N1	31-MAY-2008 22:07:30	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	32691	No
85	GOM_NL__2PRFIN20080531_221515_000000442069_00072_32691_4150.N1	31-MAY-2008 22:15:15	Bright	44.000	53	43Bet And	2.0480	3300.0	88	32691	No
86	GOM_NL__2PRFIN20080531_221758_000000542069_00072_32691_4151.N1	31-MAY-2008 22:17:58	Twilight_and_stray	53.500	58	21Alp And	2.0730	11000.	107	32691	No
87	GOM_NL__2PRFIN20080531_222255_000000522069_00072_32691_4152.N1	31-MAY-2008 22:22:55	Dark	52.000	140	88Gam Peg	2.8340	26000.	104	32691	No
88	GOM_NL__2PRFIN20080531_223155_000000462069_00072_32691_4153.N1	31-MAY-2008 22:31:55	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	32691	No
89	GOM_NL__2PRFIN20080531_224039_000000552069_00072_32691_4154.N1	31-MAY-2008 22:40:39	Dark	55.000	18	24Alp PsA	1.1660	9700.0	110	32691	No
90	GOM_NL__2PRFIN20080531_224357_000000542069_00073_32692_4149.N1	31-MAY-2008 22:43:57	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	32692	No
91	GOM_NL__2PRFIN20080531_224550_000000442069_00073_32692_4150.N1	31-MAY-2008 22:45:50	Dark	44.000	31	Alp Gru	1.7340	15200.	88	32692	No
92	GOM_NL__2PRFIN20080531_225047_000000412069_00073_32692_4151.N1	31-MAY-2008 22:50:47	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32692	No
93	GOM_NL__2PRFIN20080531_225813_000000402069_00073_32692_4152.N1	31-MAY-2008 22:58:13	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	32692	No
94	GOM_NL__2PRFIN20080531_225955_000000472069_00073_32692_4153.N1	31-MAY-2008 22:59:55	Straylight	46.500	40	The Sco	1.8590	7100.0	93	32692	No
95	GOM_NL__2PRFIN20080531_230143_000000482069_00073_32692_4154.N1	31-MAY-2008 23:01:43	Twilight_and_stray	48.000	25	35Lam Sco	1.6200	28000.	96	32692	No
96	GOM_NL__2PRFIN20080531_230329_000000512069_00073_32692_4155.N1	31-MAY-2008 23:03:29	Twilight_and_stray	50.500	75	26Eps Sco	2.2910	4250.0	101	32692	No
97	GOM_NL__2PRFIN20080531_230531_000000492069_00073_32692_4156.N1	31-MAY-2008 23:05:31	Bright	49.000	136	23Tau Sco	2.8220	30000.	98	32692	No
98	GOM_NL__2PRFIN20080531_230735_000000392069_00073_32692_4157.N1	31-MAY-2008 23:07:35	Bright	38.500	80	7Del Sco	2.3160	30000.	77	32692	No
99	GOM_NL__2PRFIN20080531_230908_000000462069_00073_32692_4158.N1	31-MAY-2008 23:09:08	Bright	45.500	86	35Eta Oph	2.4300	10200.	91	32692	No
100	GOM_NL__2PRFIN20080531_231100_000000402069_00073_32692_4159.N1	31-MAY-2008 23:11:00	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	32692	No
101	GOM_NL__2PRFIN20080531_231311_000000392069_00073_32692_4160.N1	31-MAY-2008 23:13:11	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	32692	No

102	GOM_NL__2PRFIN20080531_231612_000000372069_00073_32692_4161.N1	31-MAY-2008 23:16:12	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	32692	No
103	GOM_NL__2PRFIN20080531_232206_000000382069_00073_32692_4162.N1	31-MAY-2008 23:22:06	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	32692	No
104	GOM_NL__2PRFIN20080531_232444_000000422069_00073_32692_4163.N1	31-MAY-2008 23:24:44	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	32692	No
105	GOM_NL__2PRFIN20080531_233241_000000392069_00073_32692_4164.N1	31-MAY-2008 23:32:41	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	32692	No
106	GOM_NL__2PRFIN20080531_234304_000000452069_00073_32692_4165.N1	31-MAY-2008 23:43:04	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	32692	No
107	GOM_NL__2PRFIN20080531_234806_000000562069_00073_32692_4166.N1	31-MAY-2008 23:48:06	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	32692	No
108	GOM_NL__2PRFIN20080531_235551_000000402069_00073_32692_4167.N1	31-MAY-2008 23:55:51	Bright	40.000	53	43Bet And	2.0480	3300.0	80	32692	No
109	GOM_NL__2PRFIN20080531_235834_000000532069_00073_32692_4168.N1	31-MAY-2008 23:58:34	Twilight_stray	53.000	58	21Alp And	2.0730	11000.	106	32692	No

### 3. Quality information per product

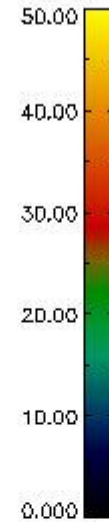
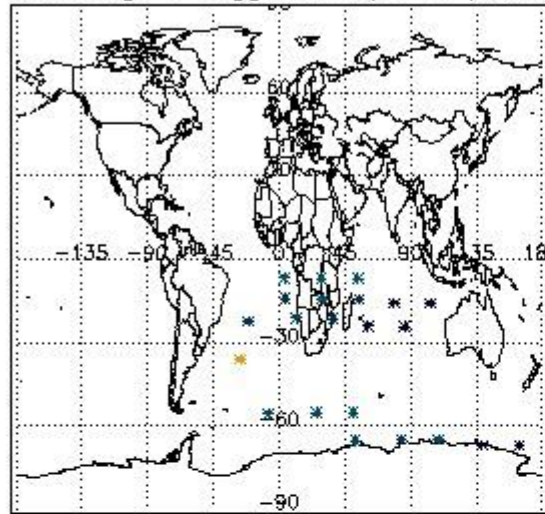
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

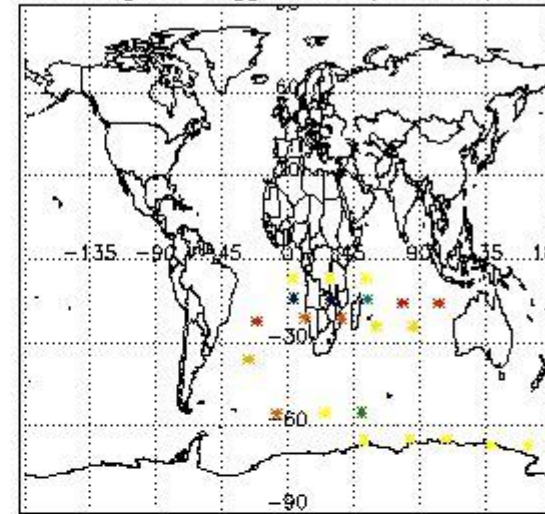


#### 3.2 Plot quality information per product (world map)

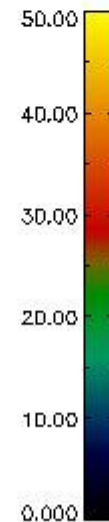
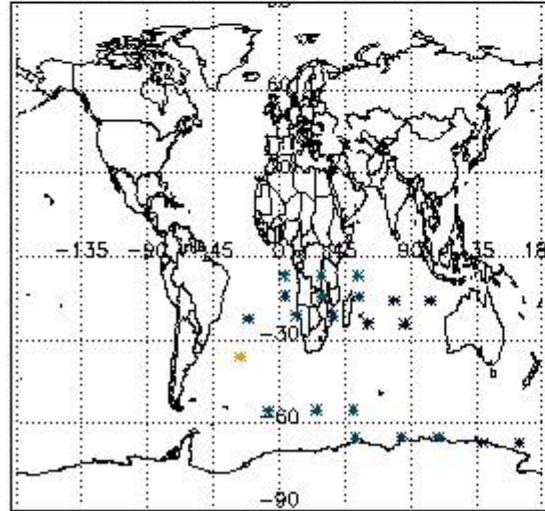
Percentage of flagged data per O3 profile



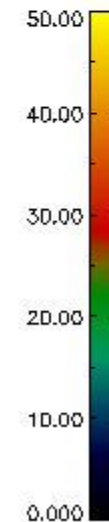
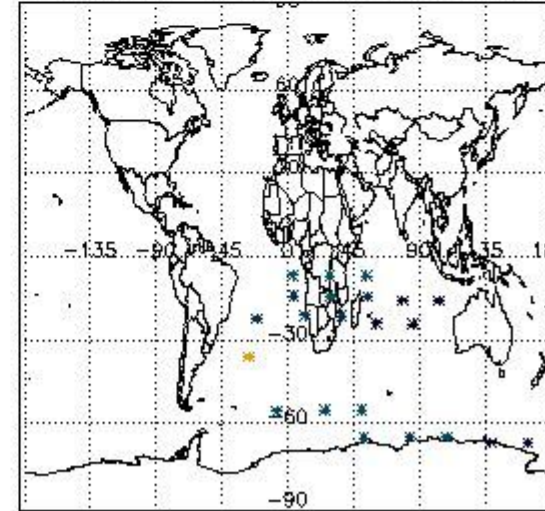
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

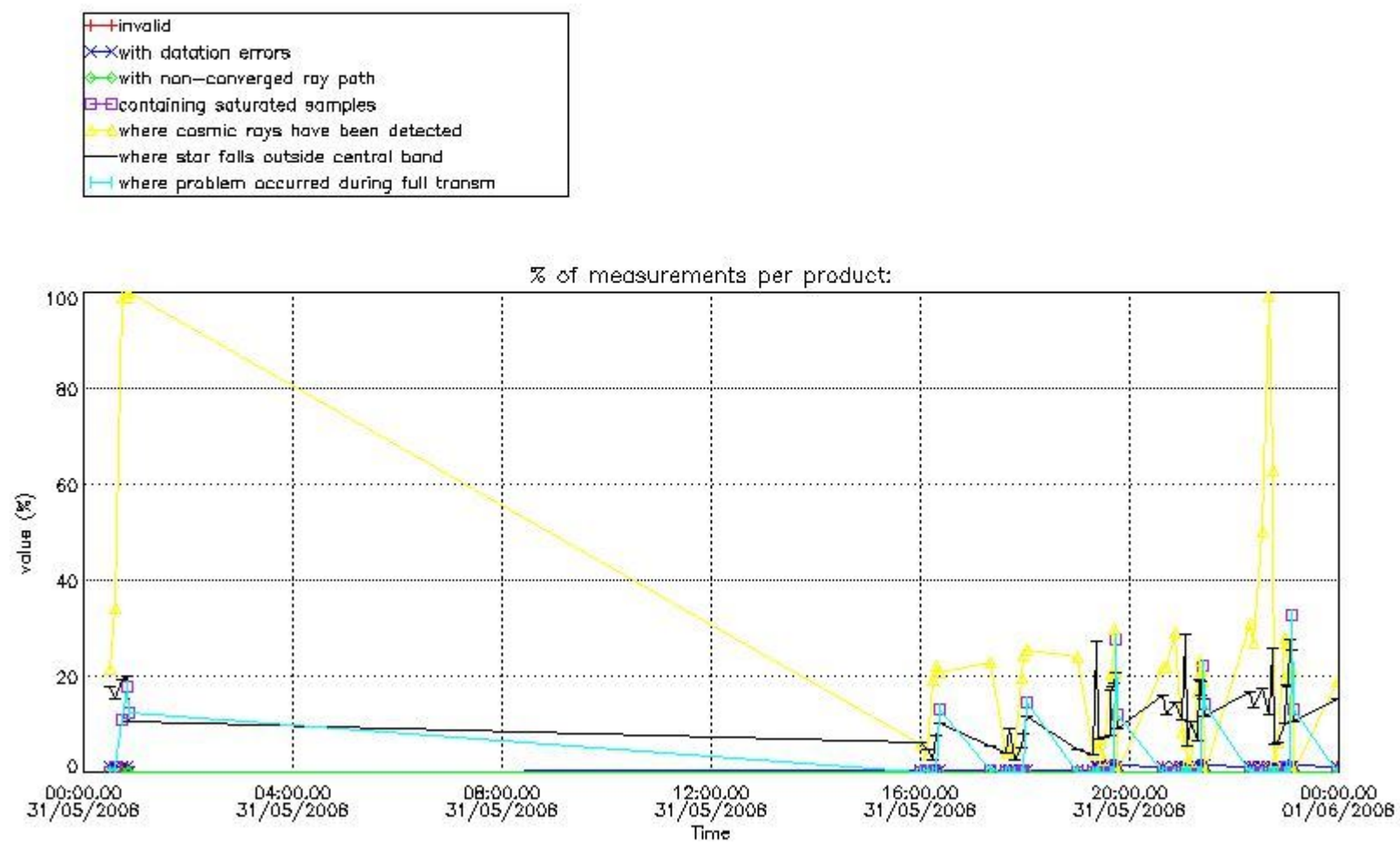


#### 4. Level 1 quality information per product

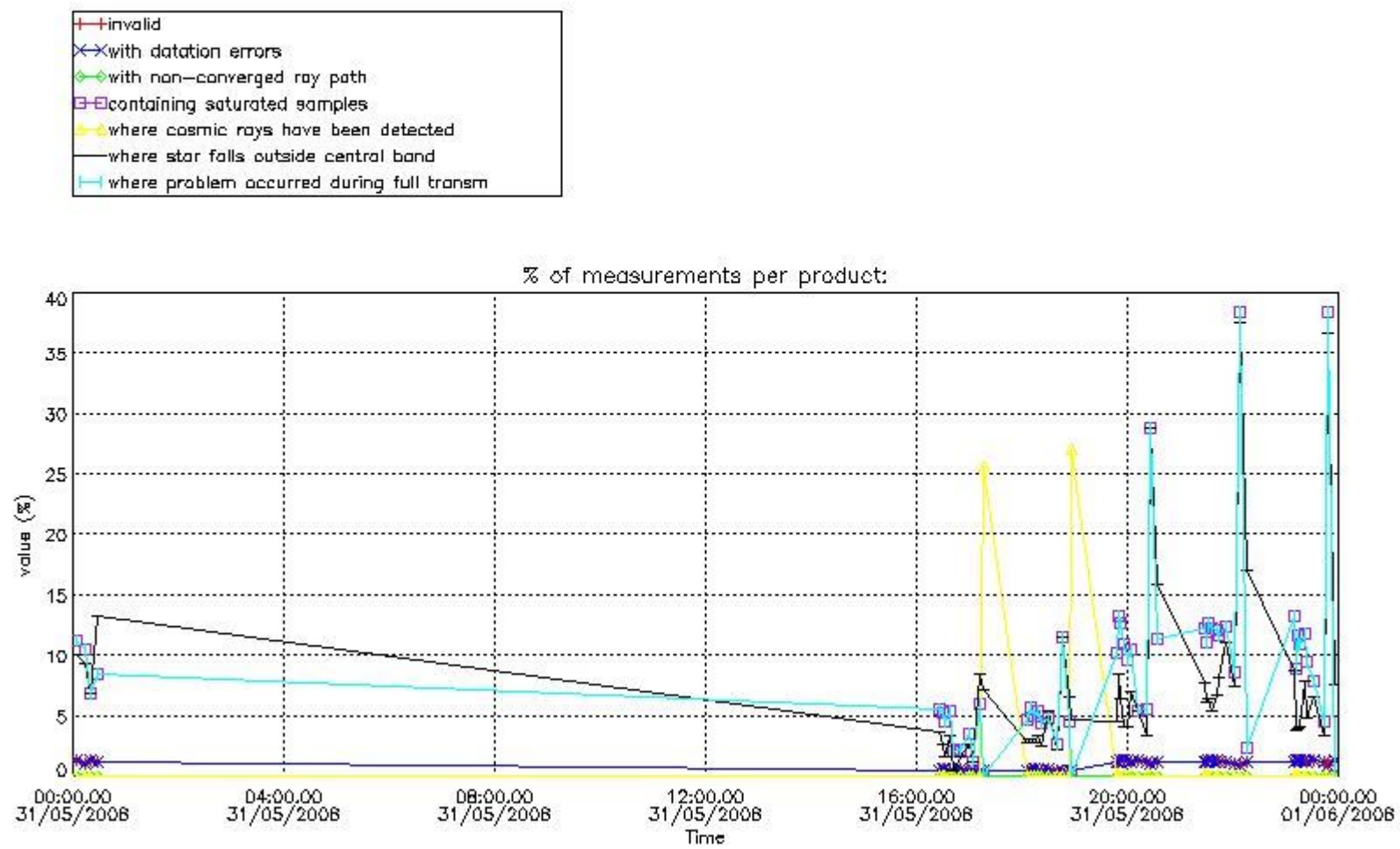
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



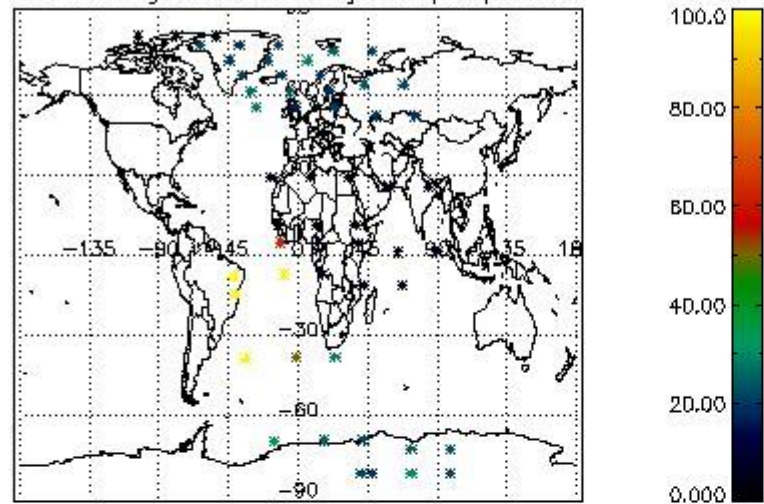
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



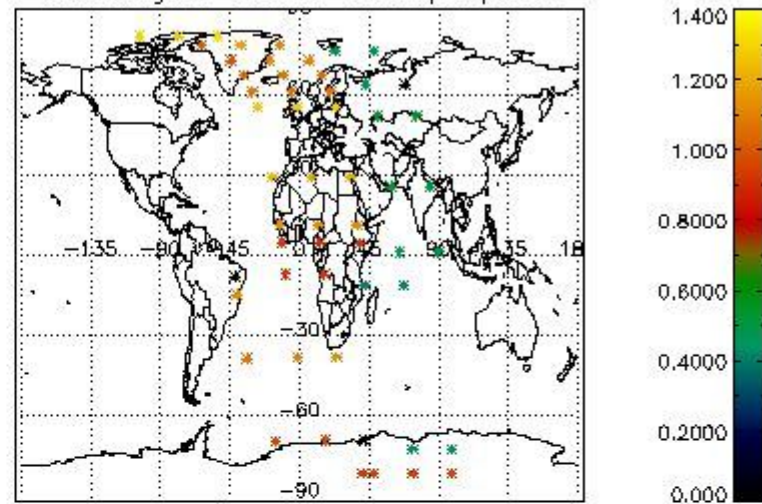
4.2 Plot quality information per product coming from level 1b processing (world map)

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

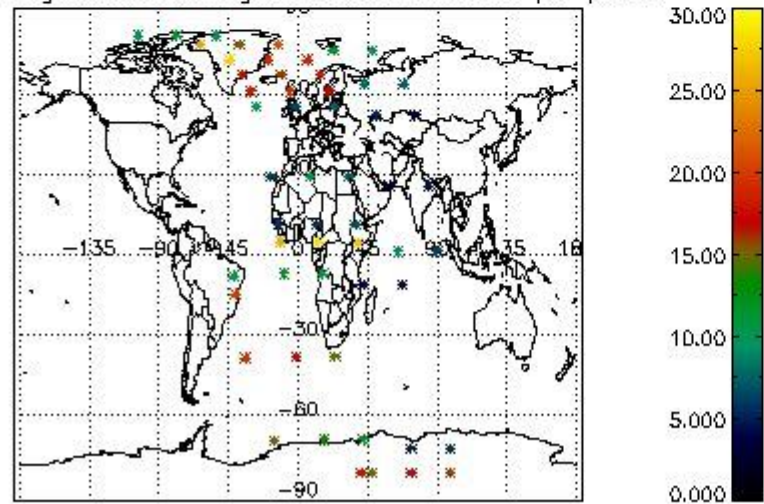
Percentage of cosmic ray hits per profile



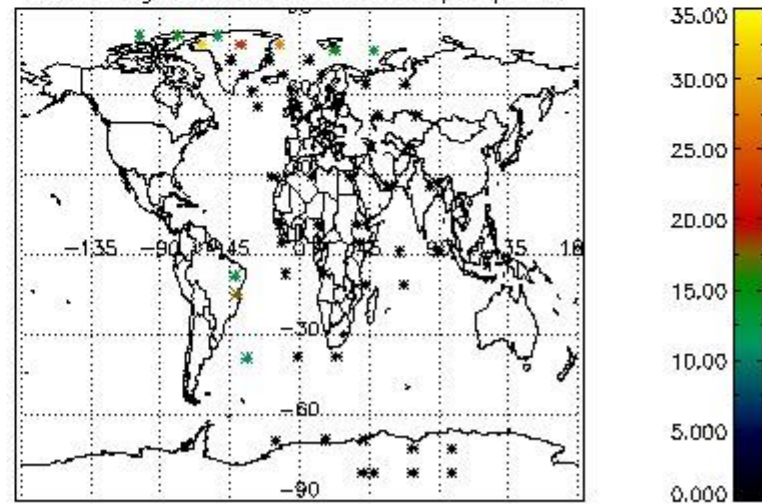
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

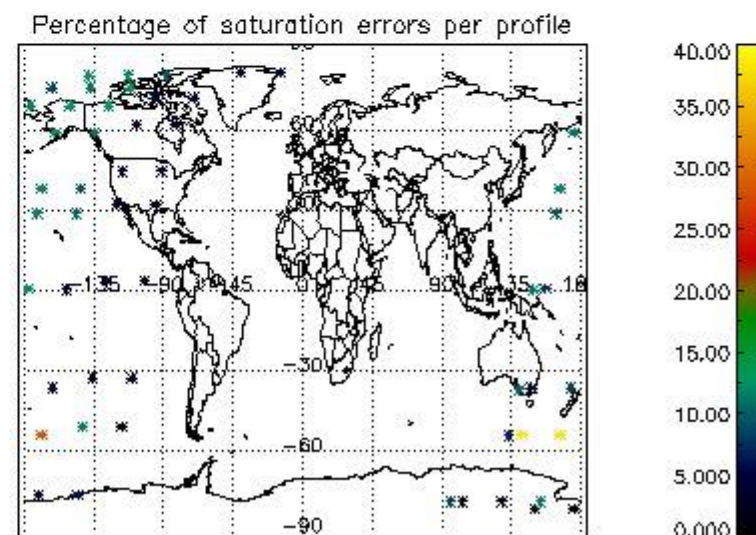
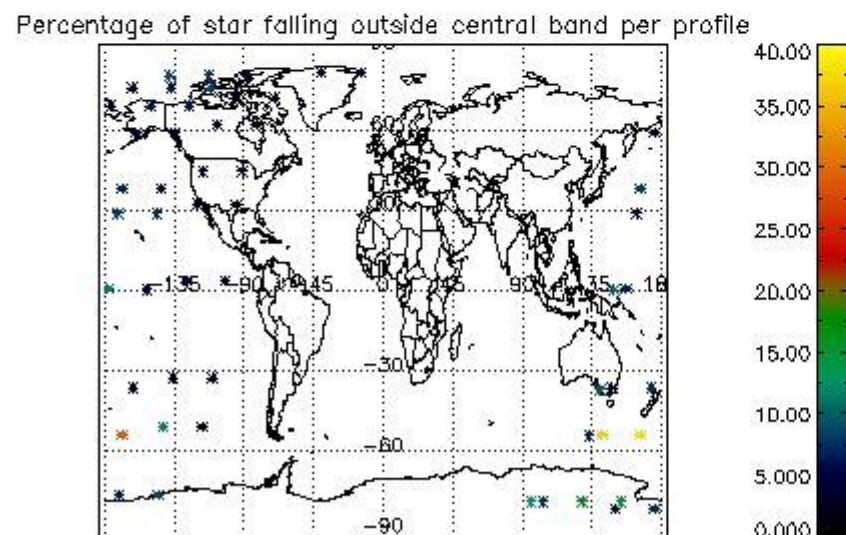
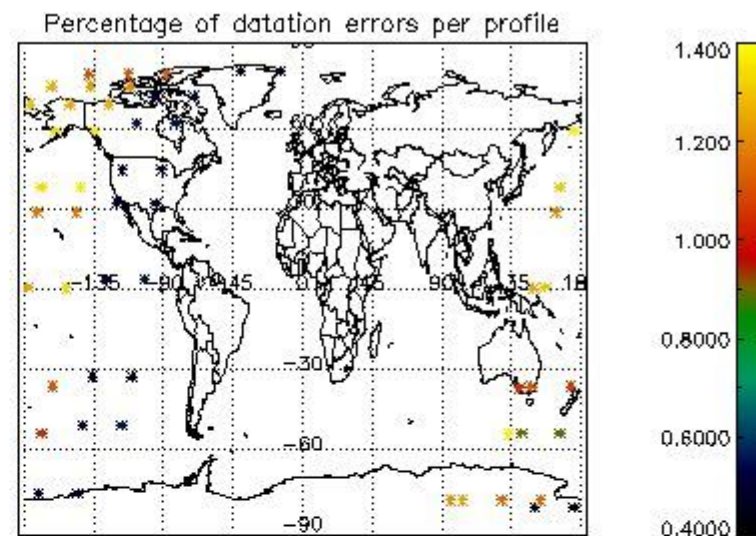
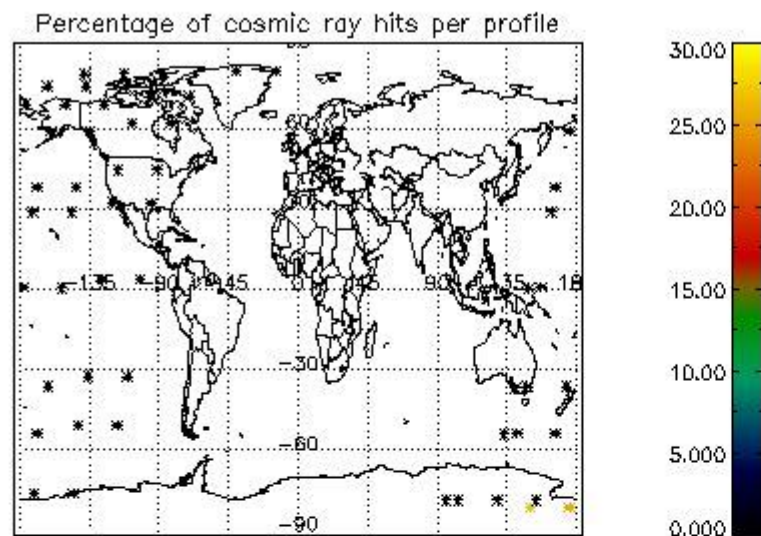


Percentage of saturation errors per profile



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

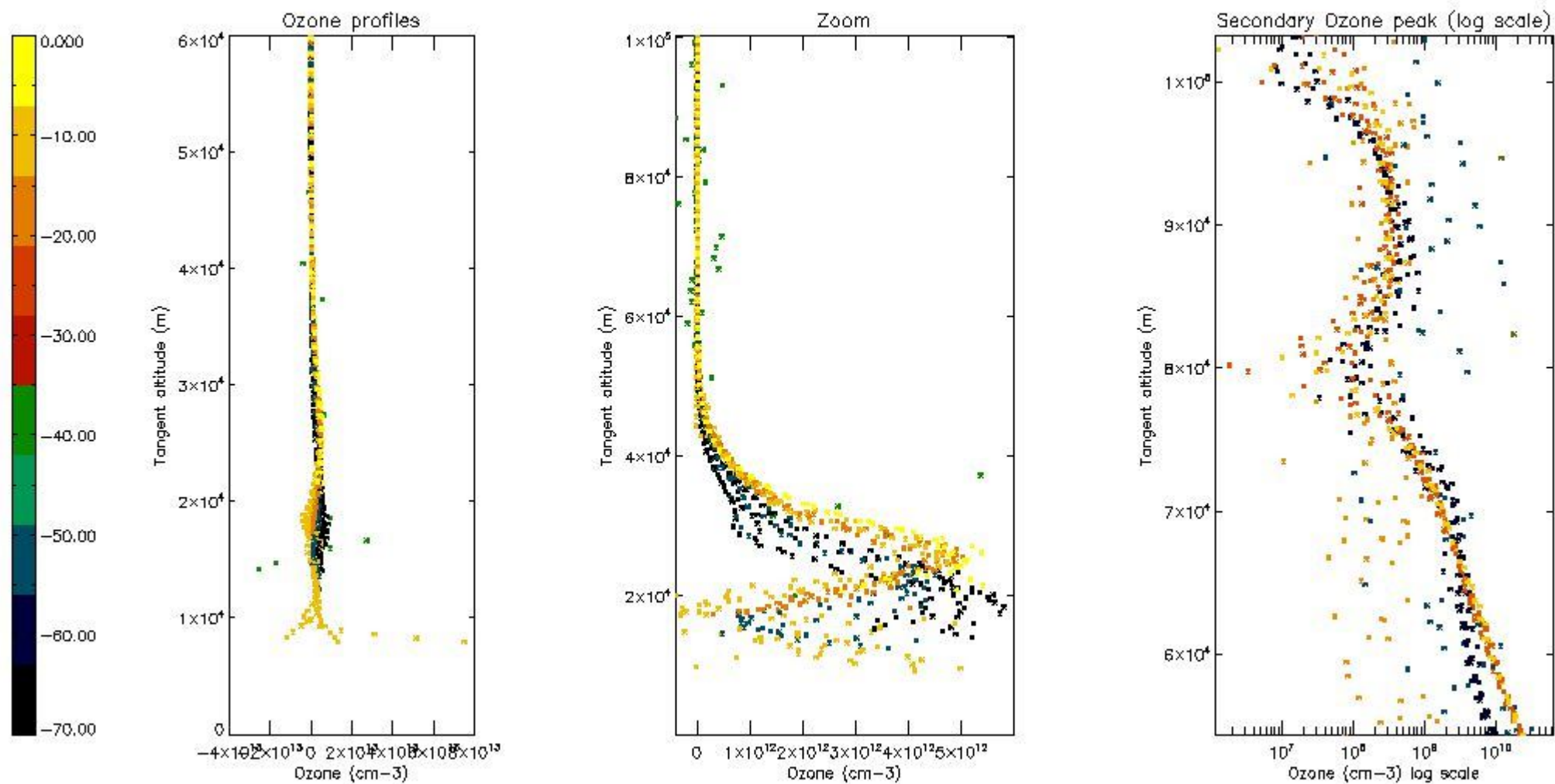
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	8

STD < 10	6
STD < 5	4

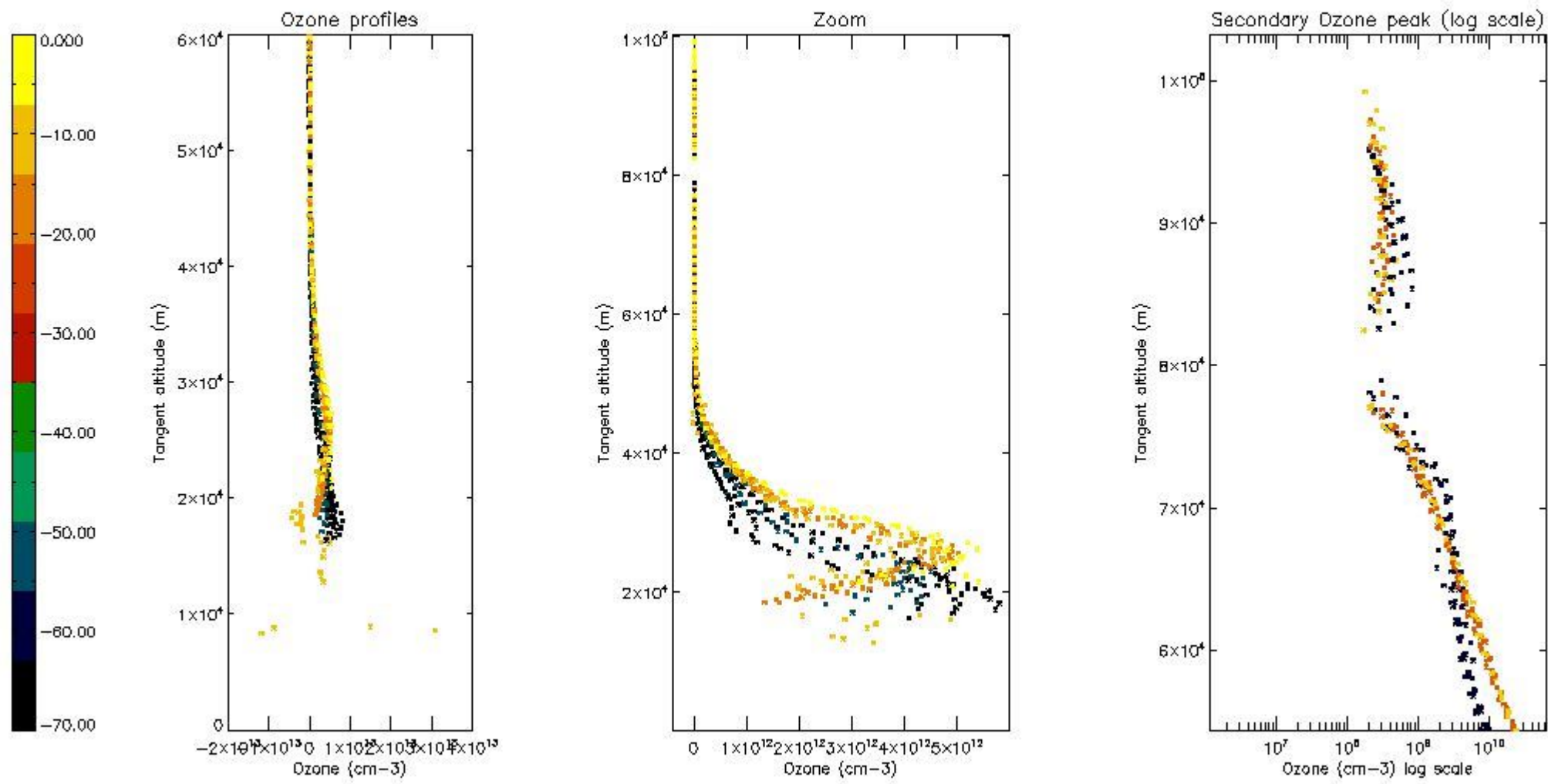
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



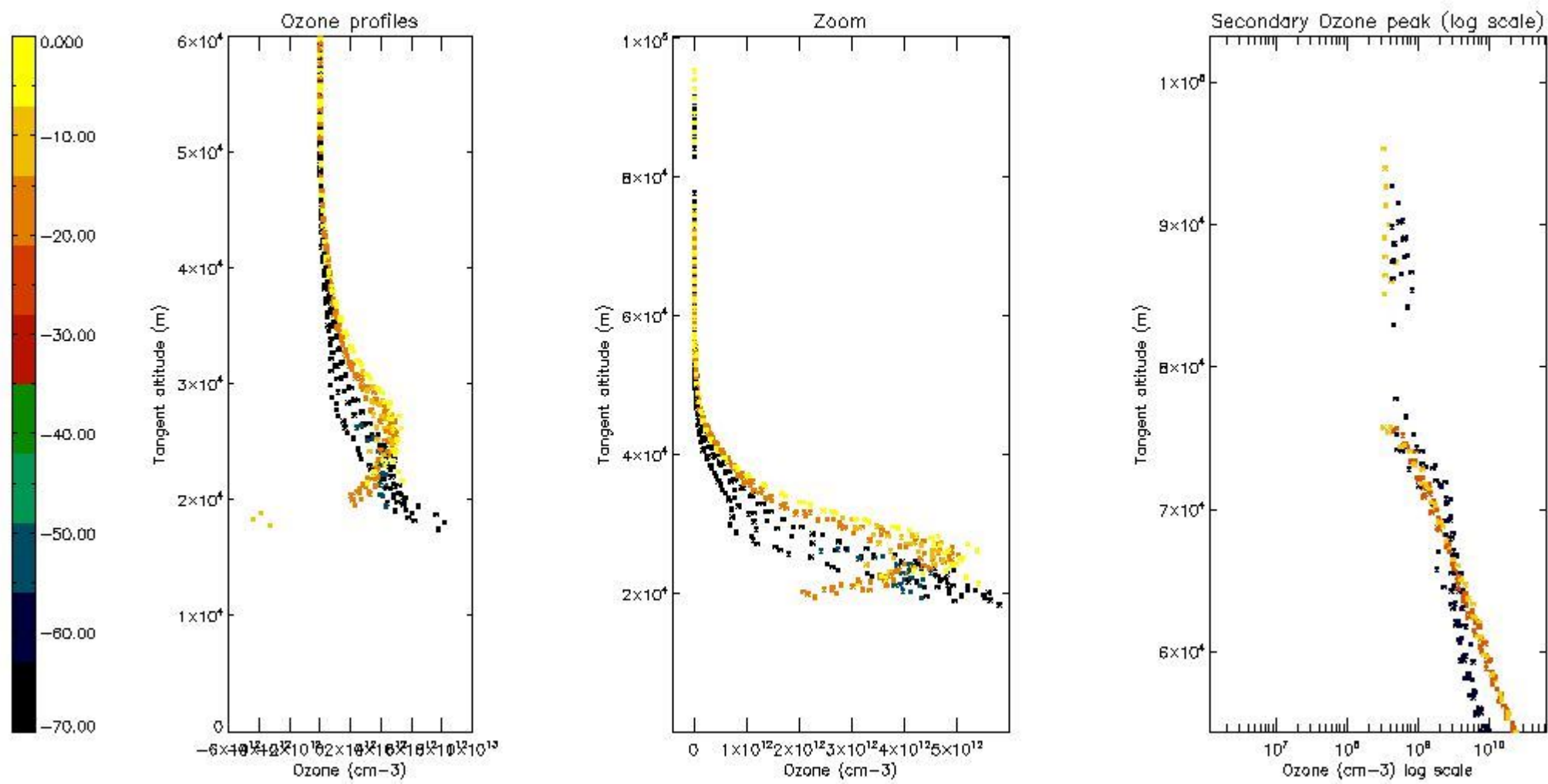
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



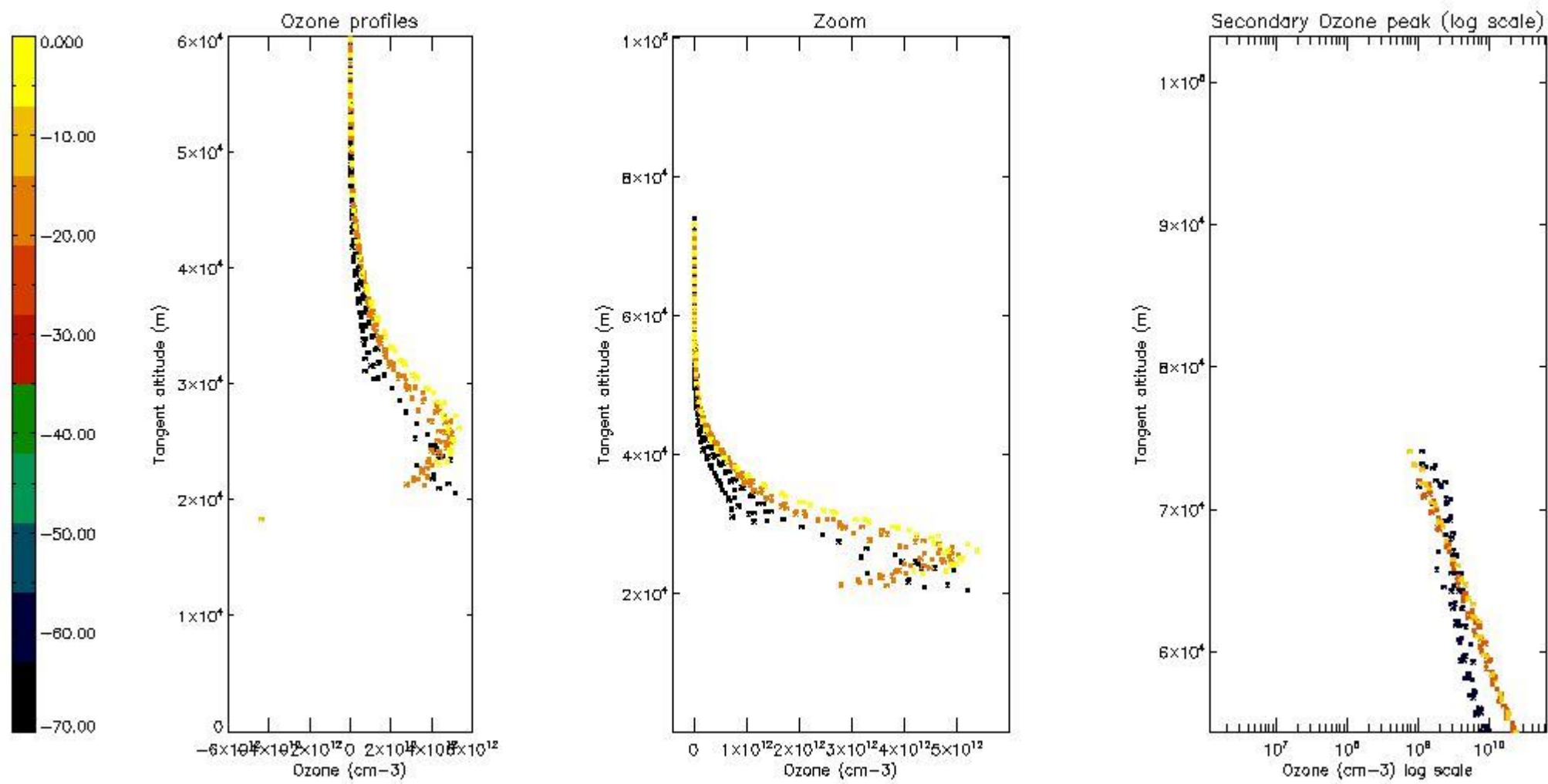
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



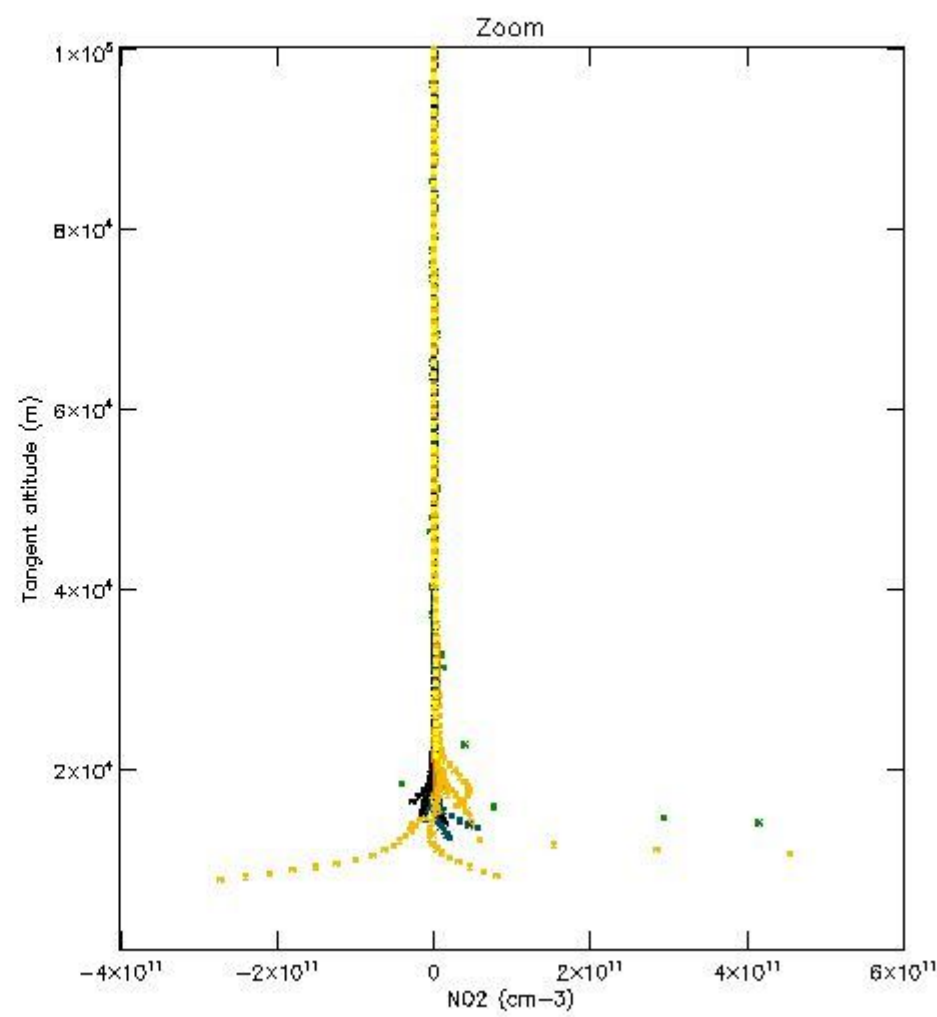
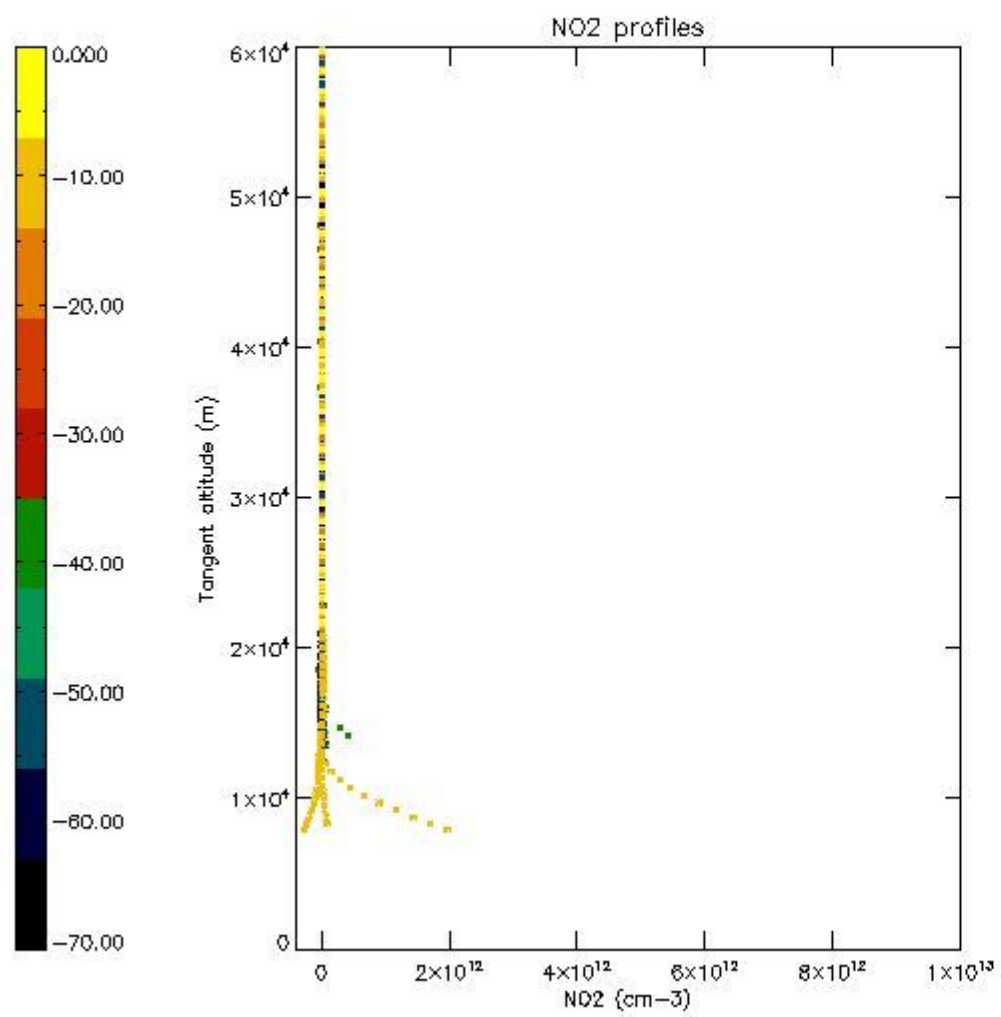
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



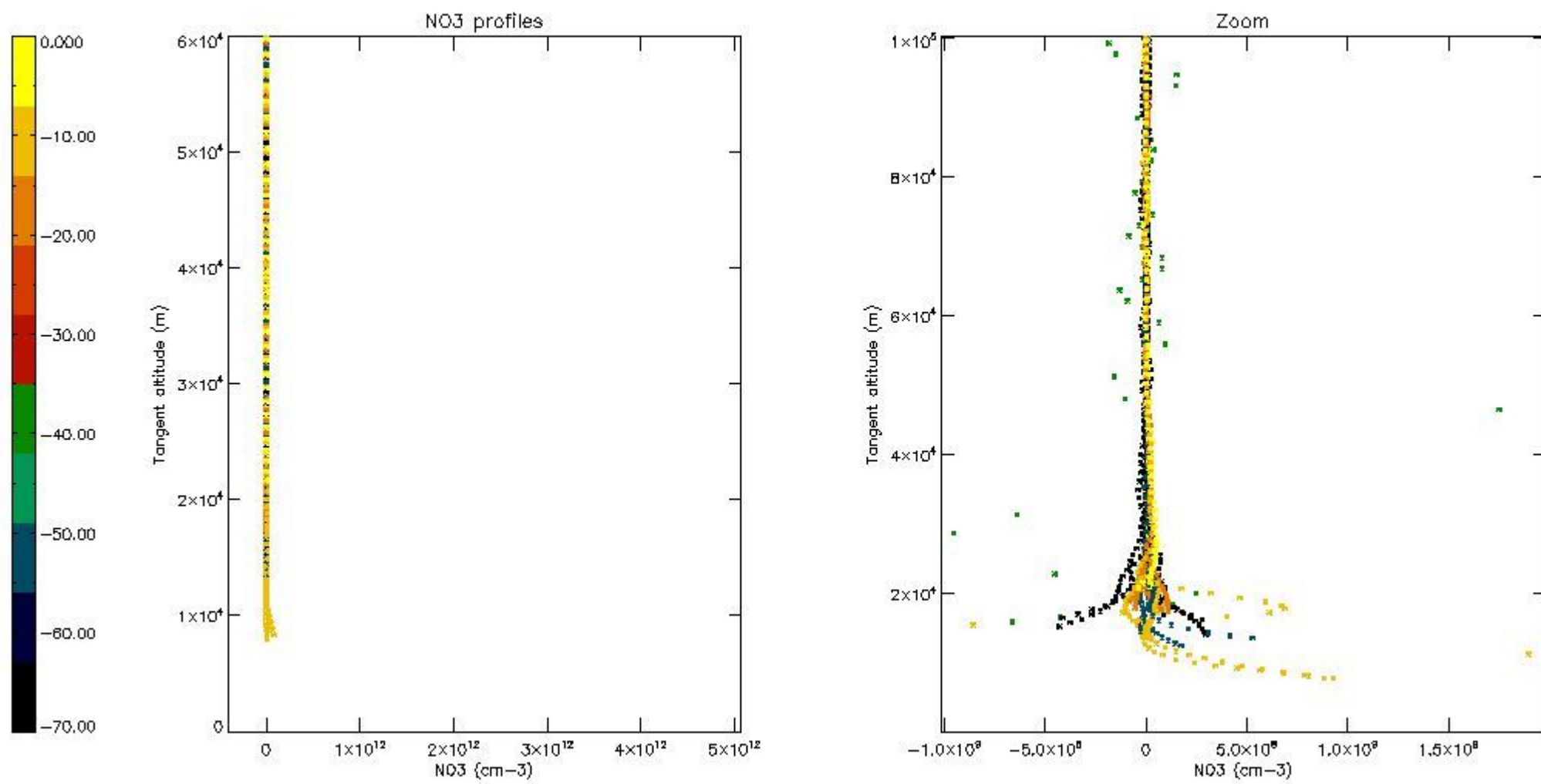
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



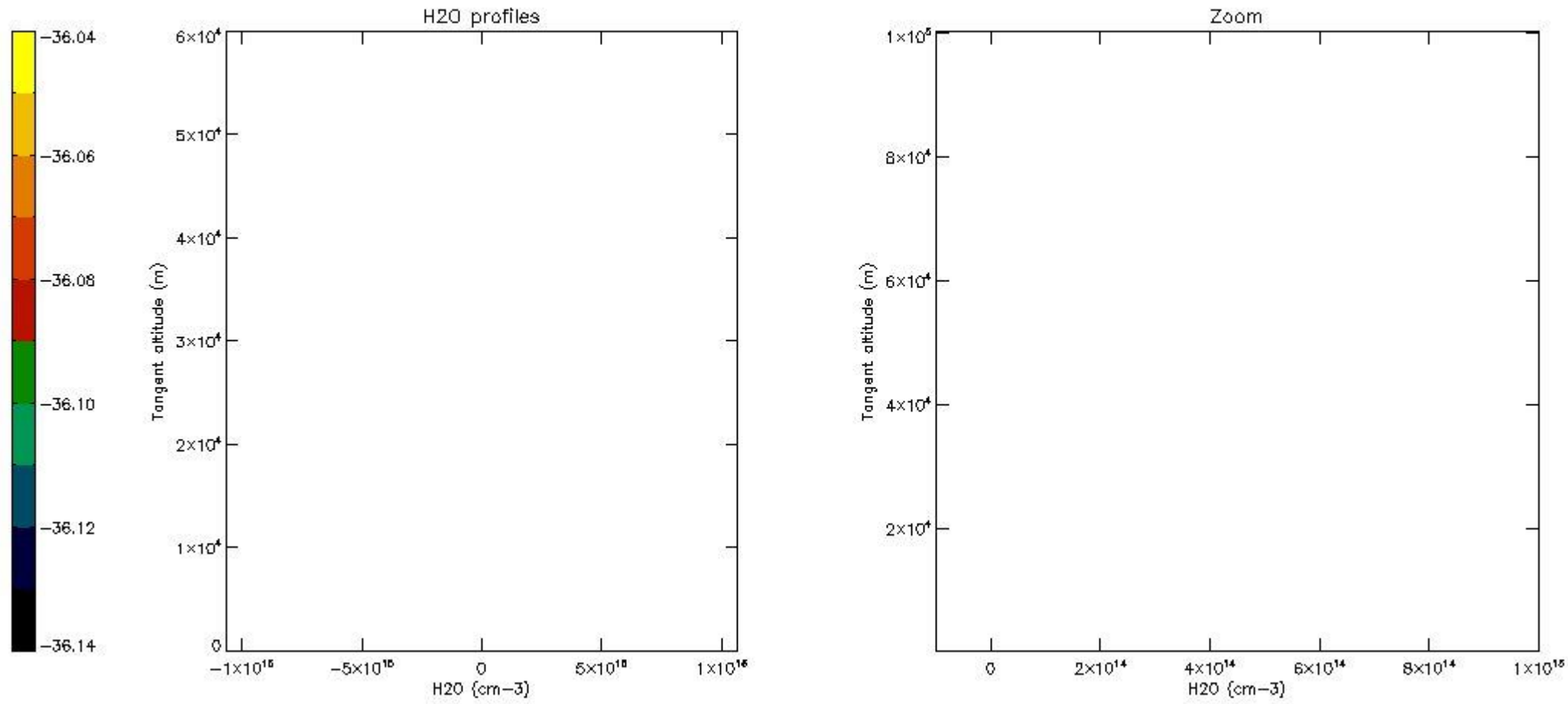
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

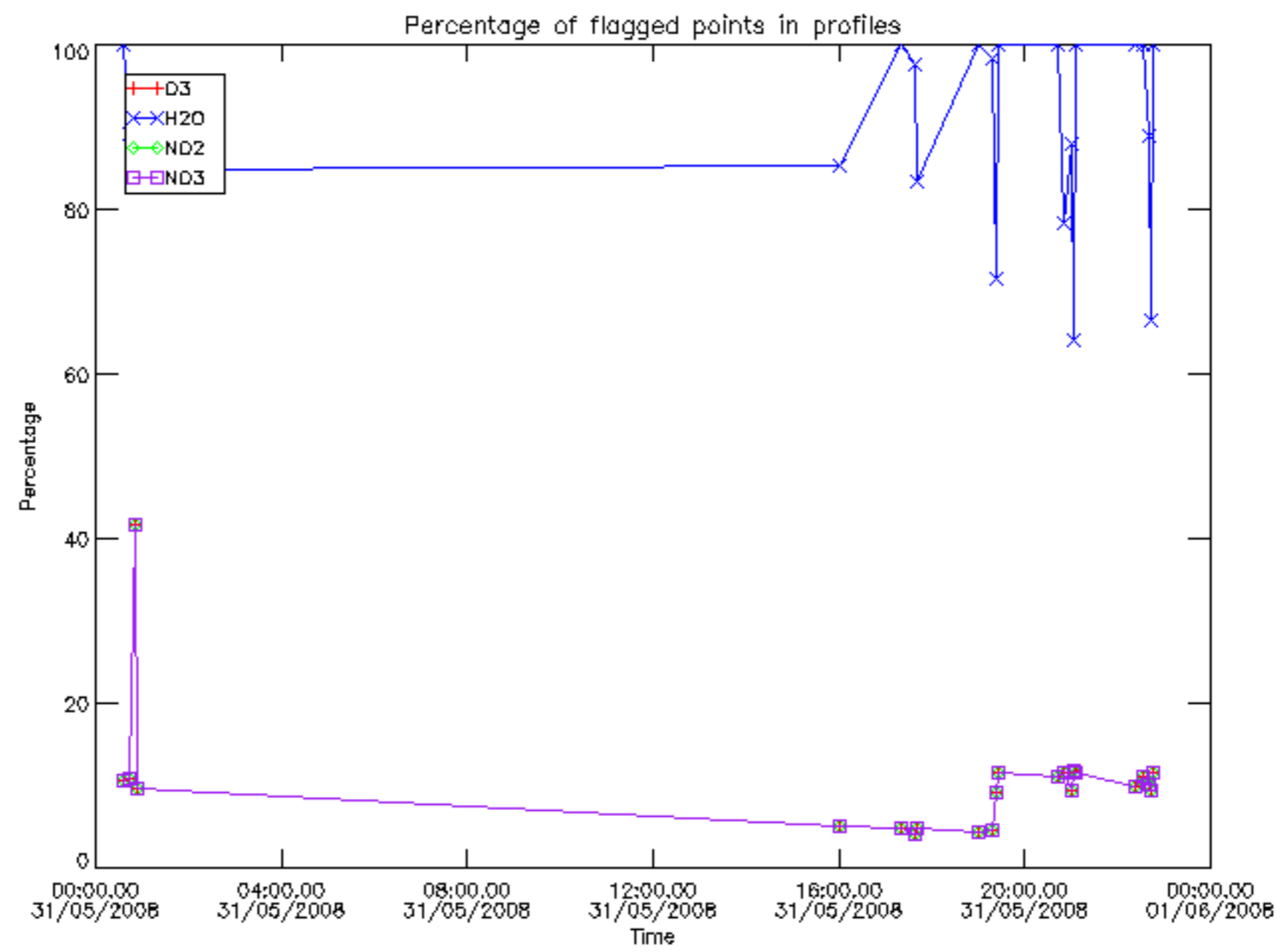


## 6. Auxiliary Data Files used for the production reported in section 2

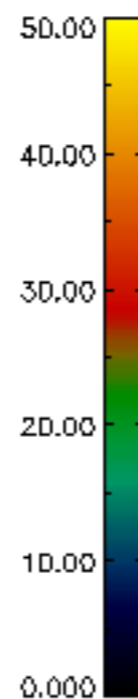
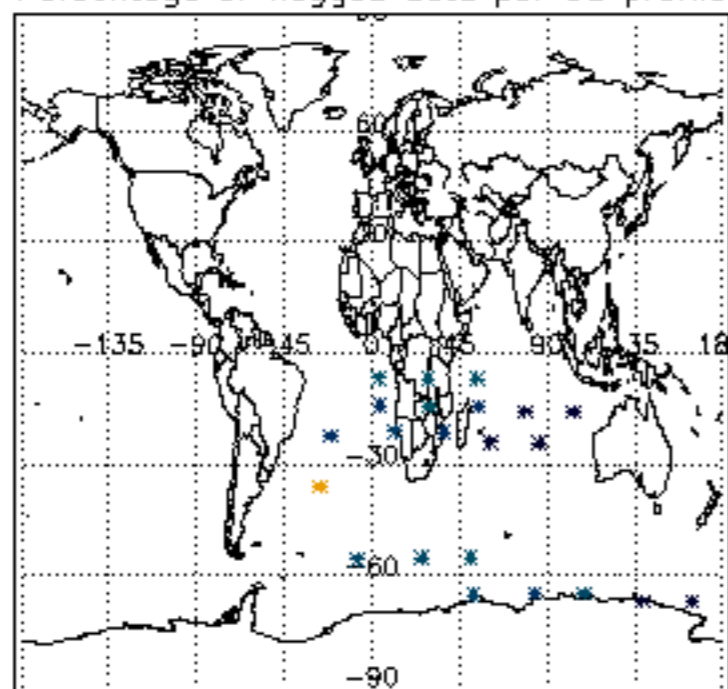
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-MAY-2008 00:04:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-MAY-2008 00:04:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-MAY-2008 00:04:22

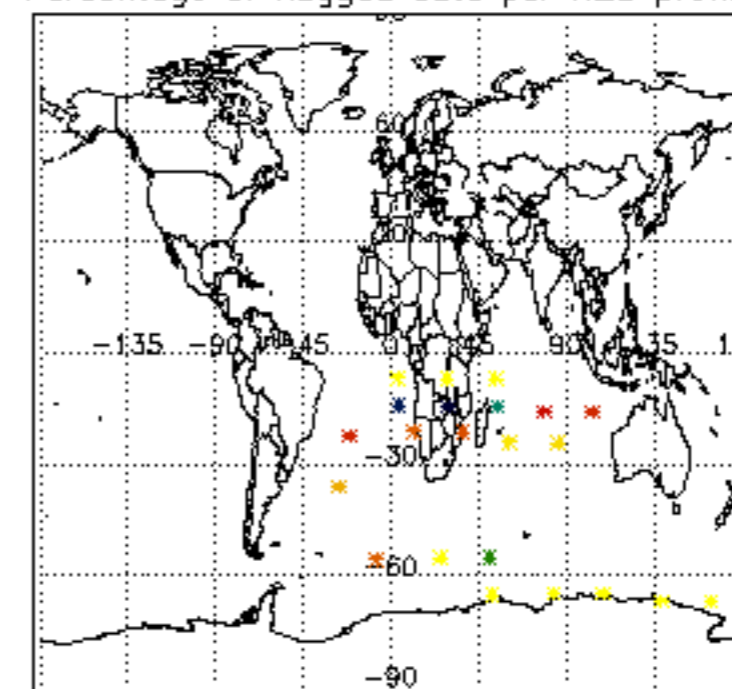




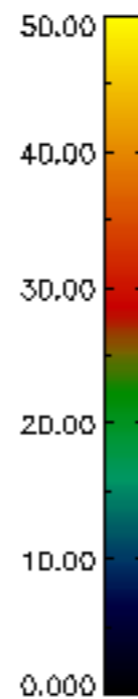
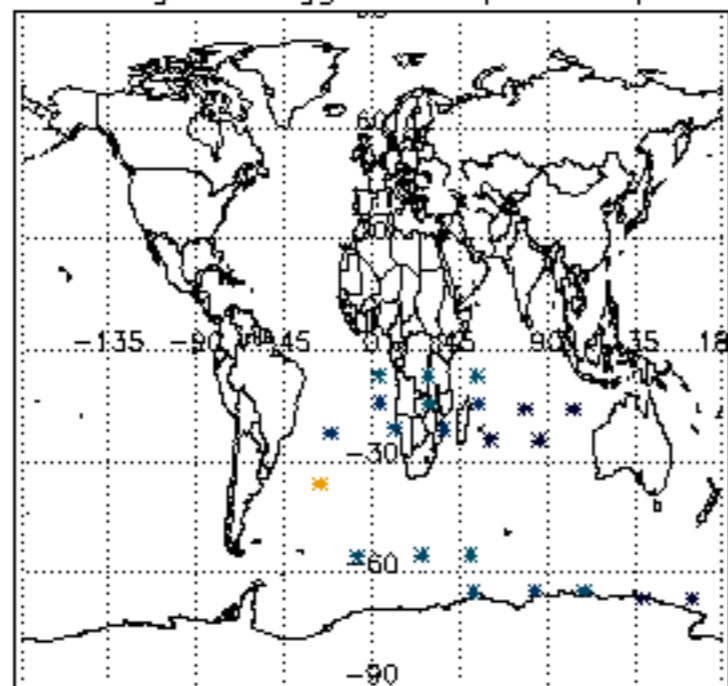
Percentage of flagged data per D3 profile



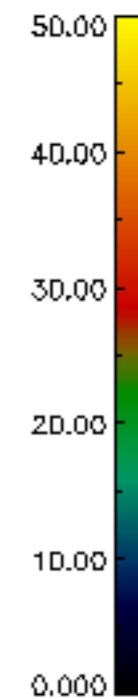
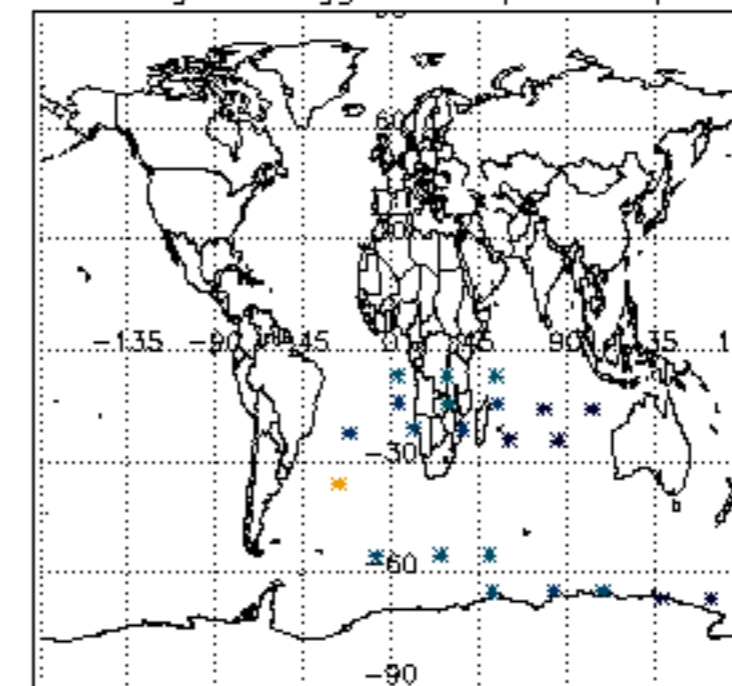
Percentage of flagged data per H2O profile

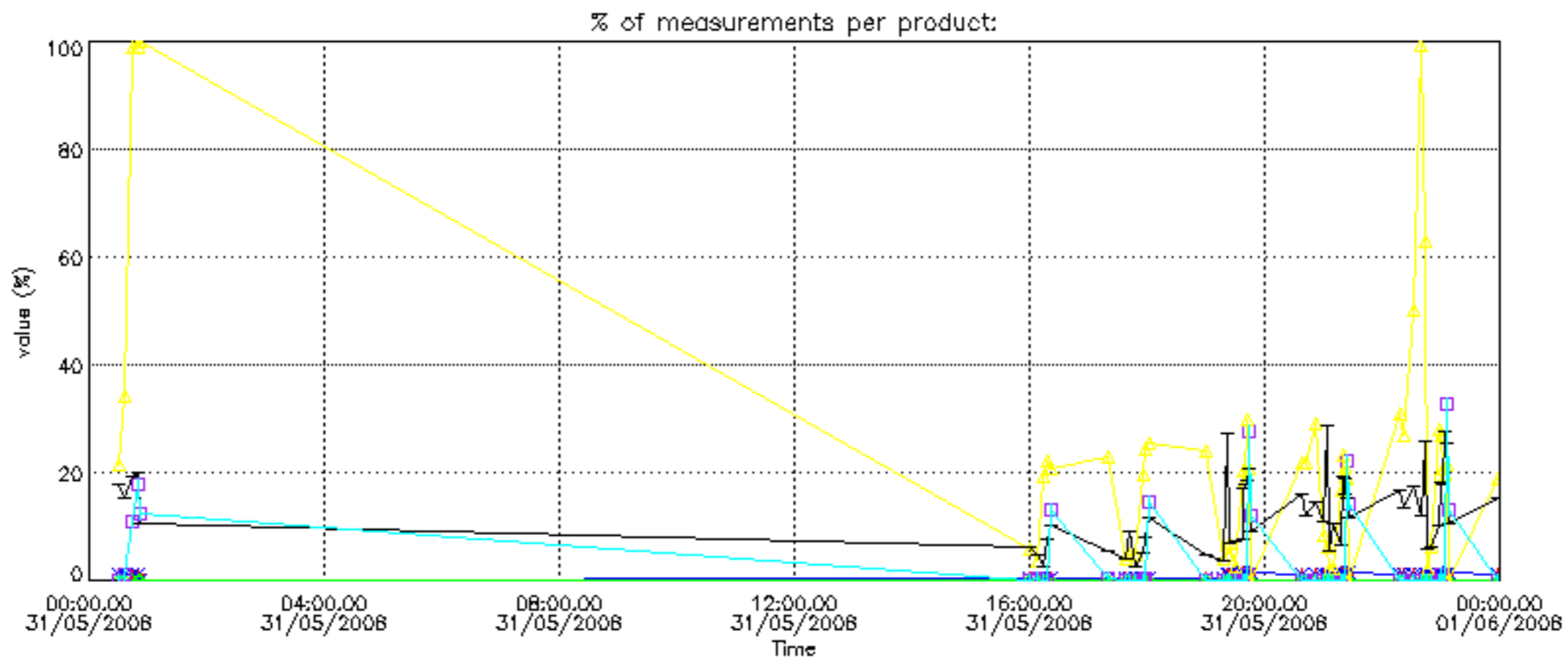


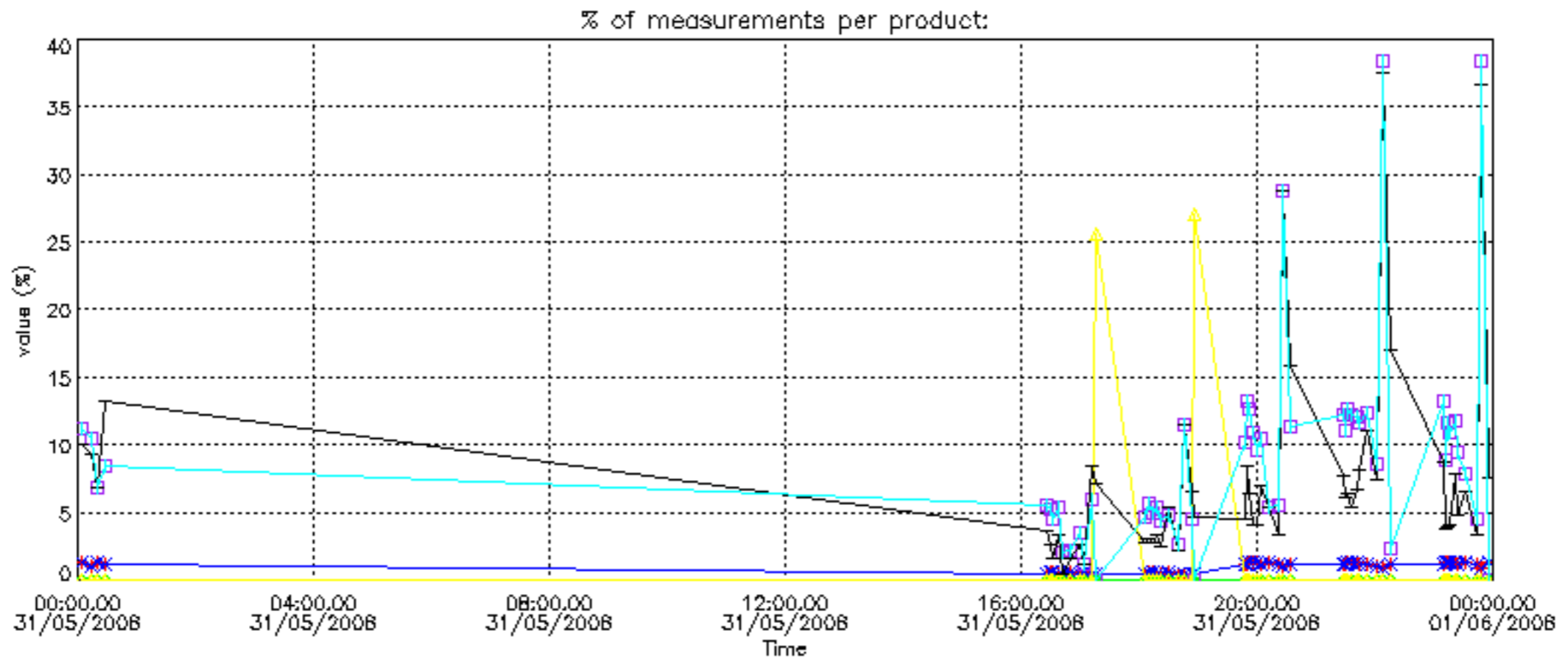
Percentage of flagged data per NO2 profile



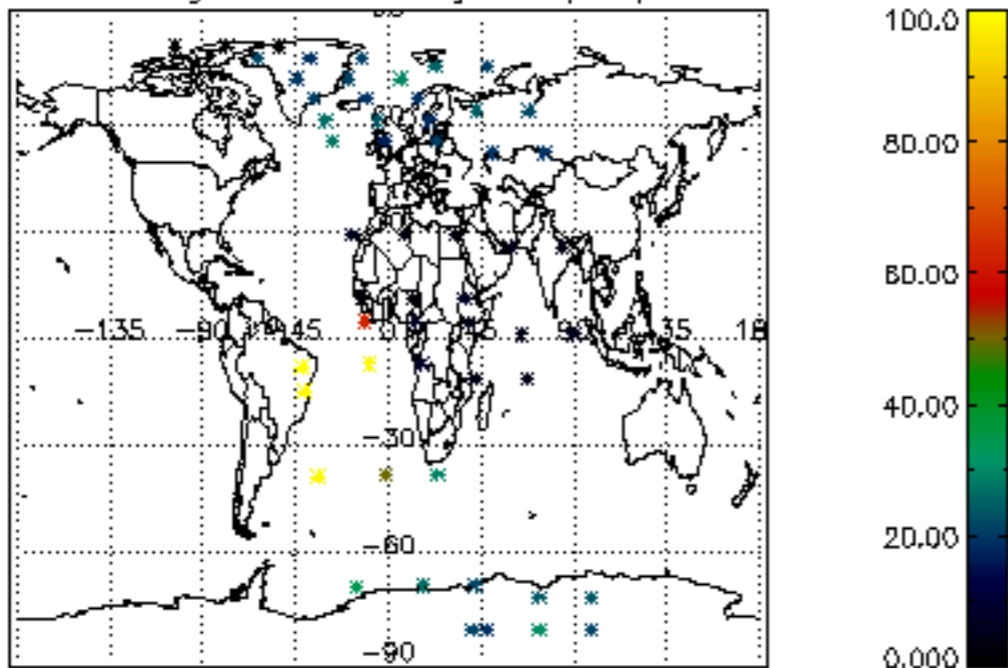
Percentage of flagged data per NO3 profile



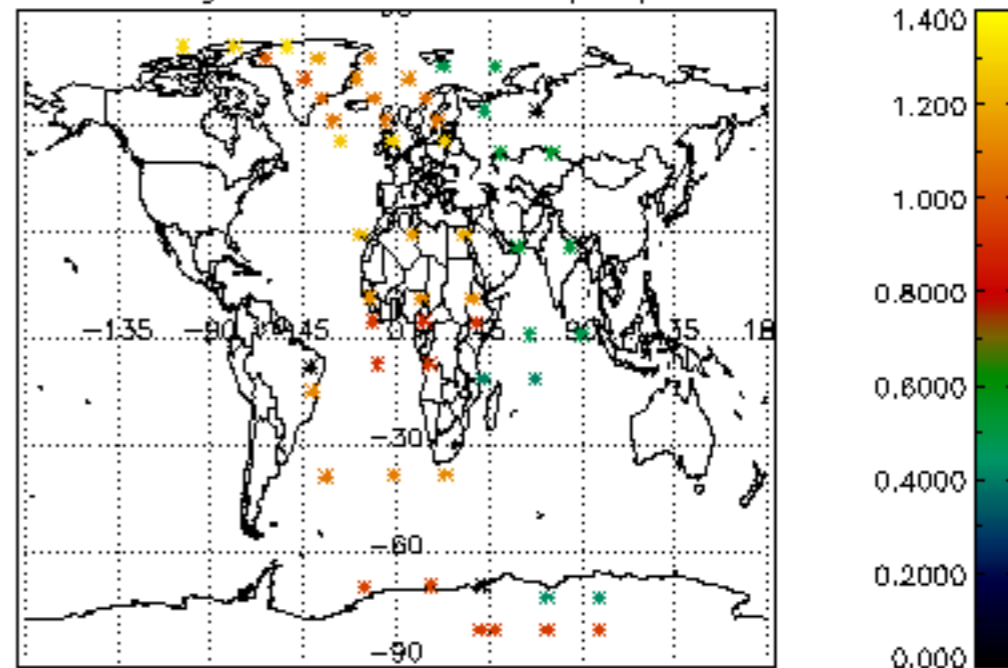




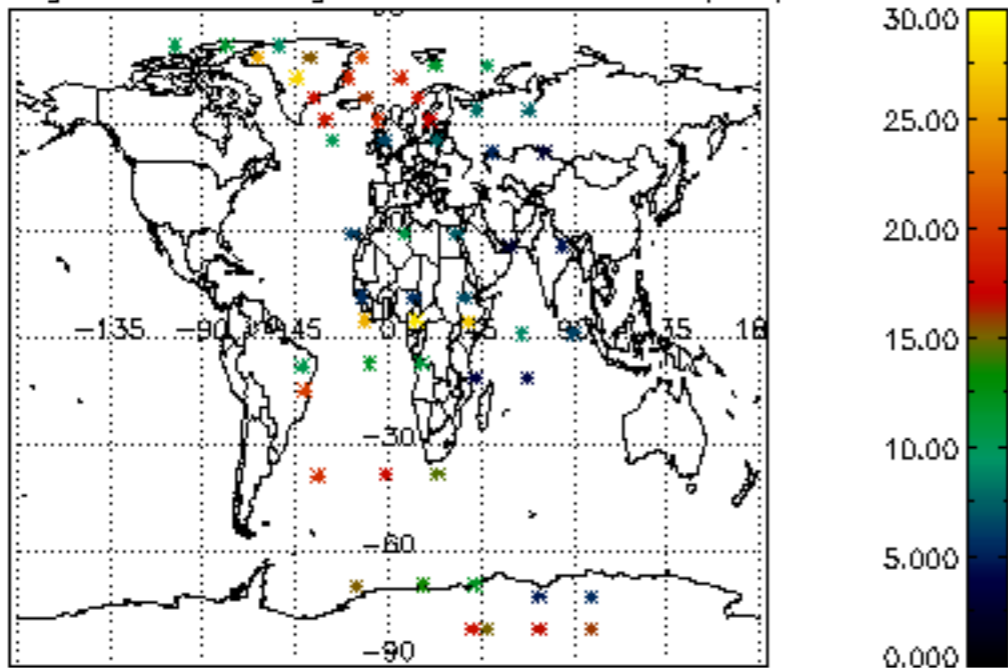
Percentage of cosmic ray hits per profile



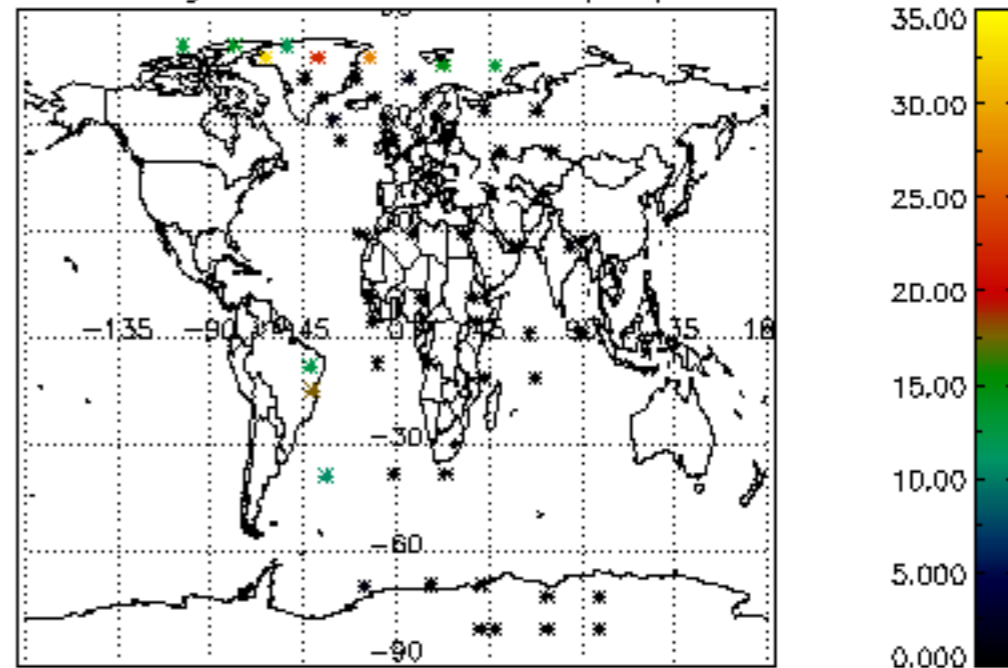
Percentage of datation errors per profile



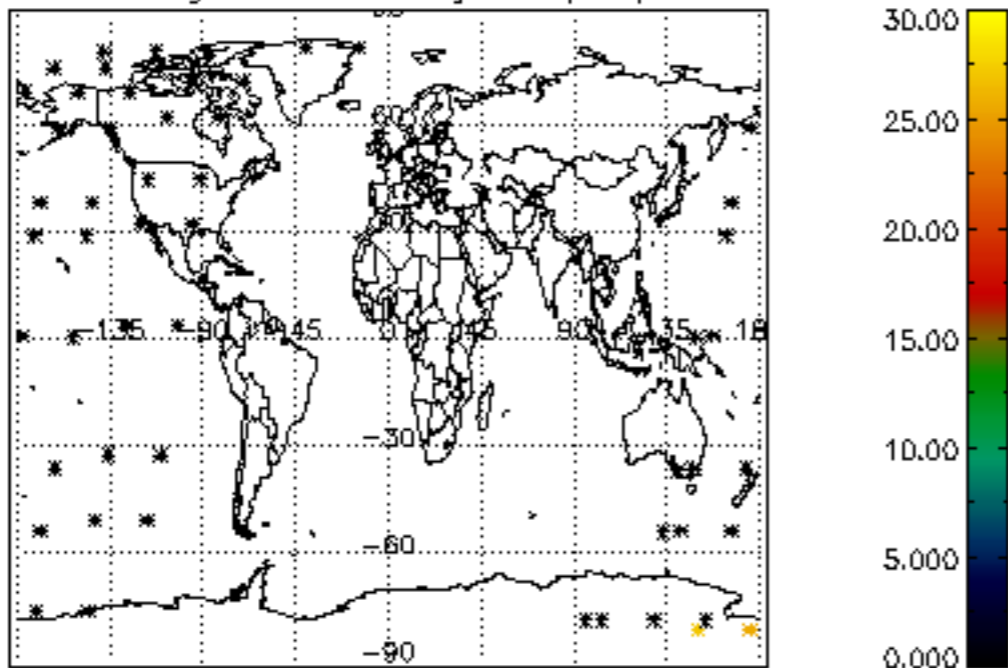
Percentage of star falling outside central band per profile



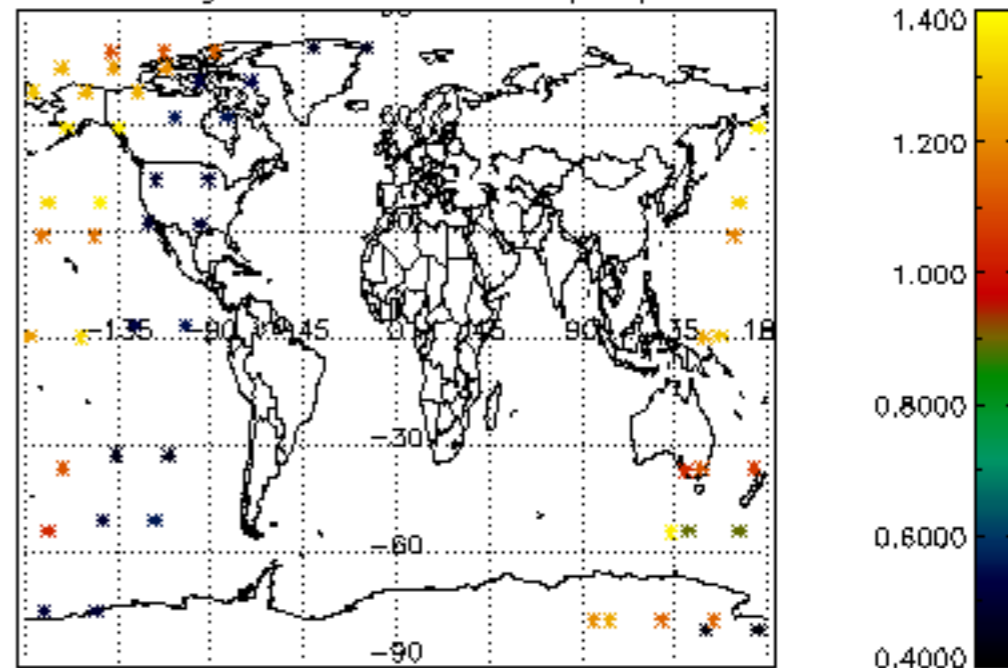
Percentage of saturation errors per profile



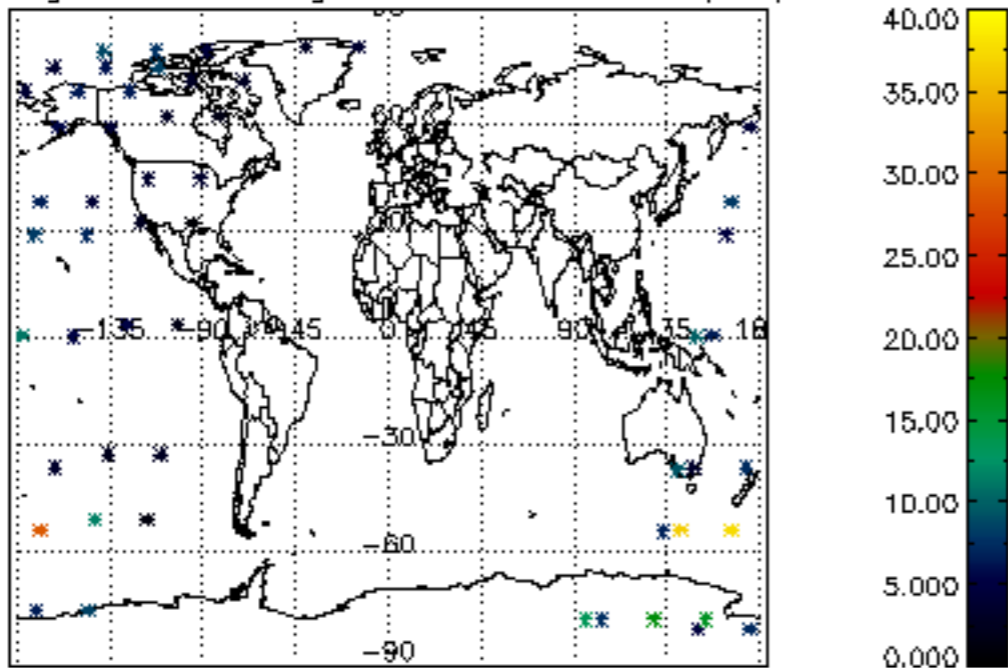
Percentage of cosmic ray hits per profile



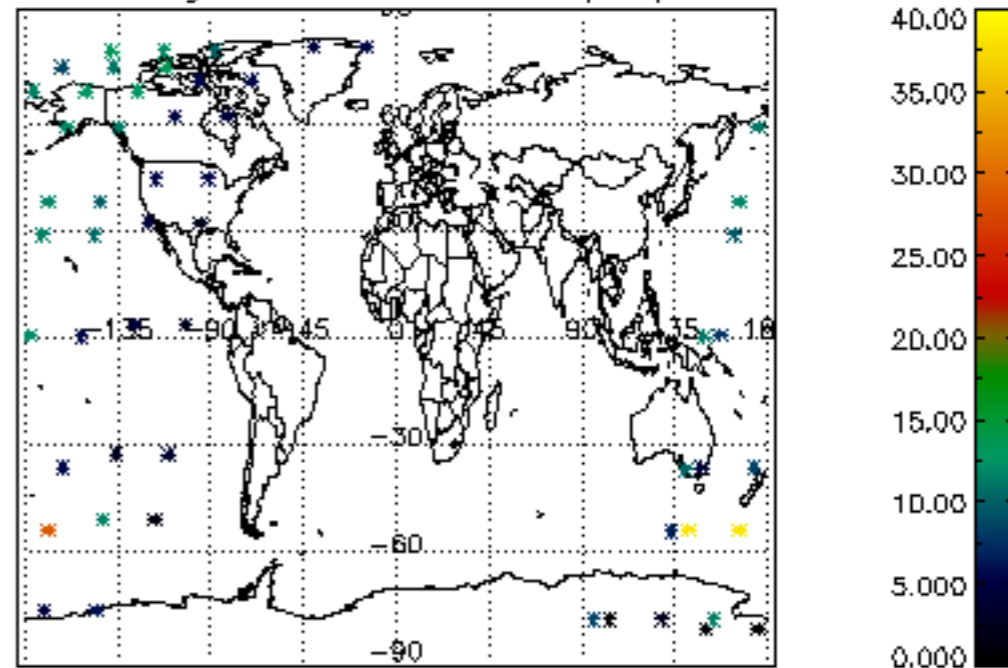
Percentage of datation errors per profile

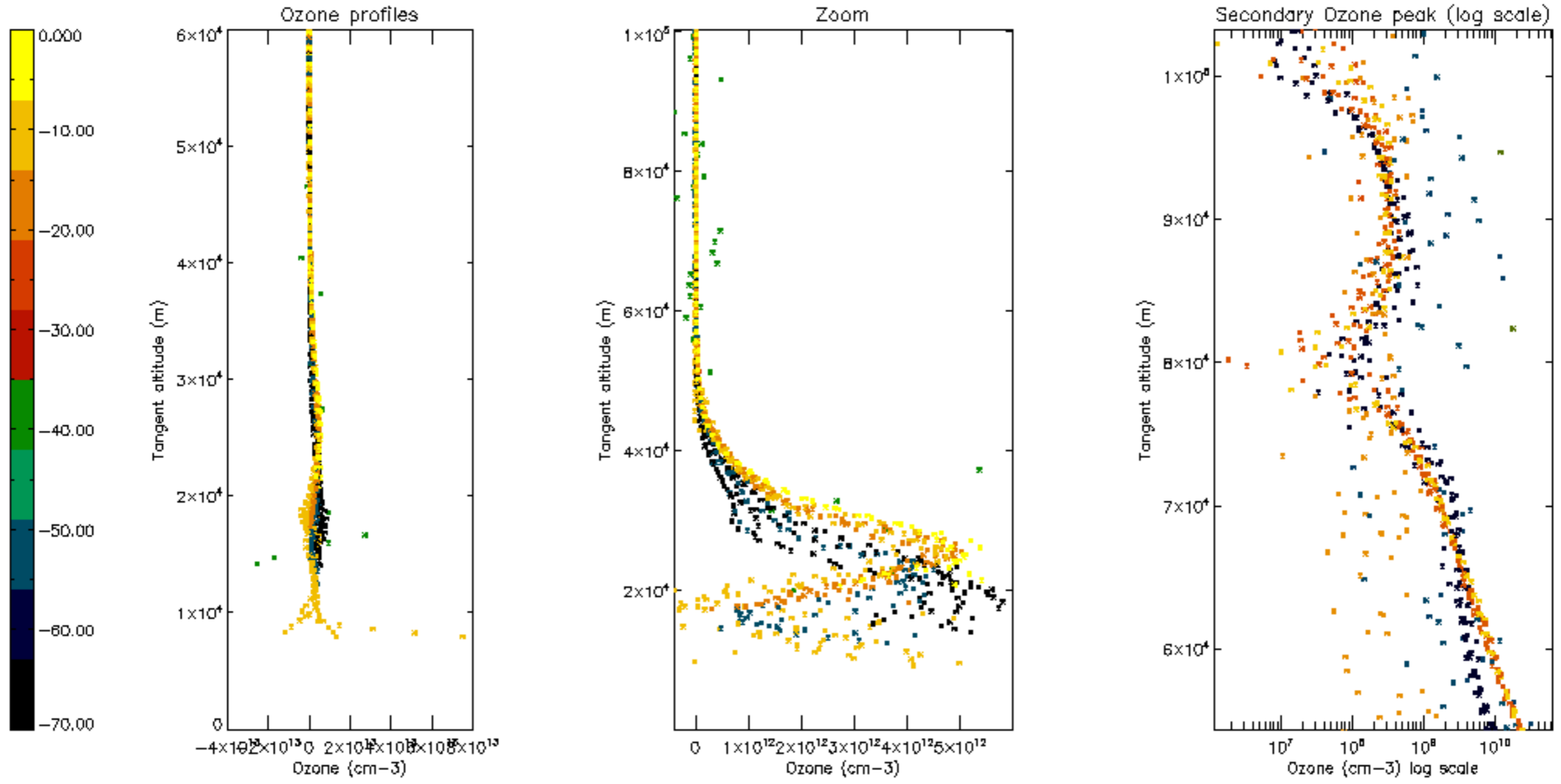


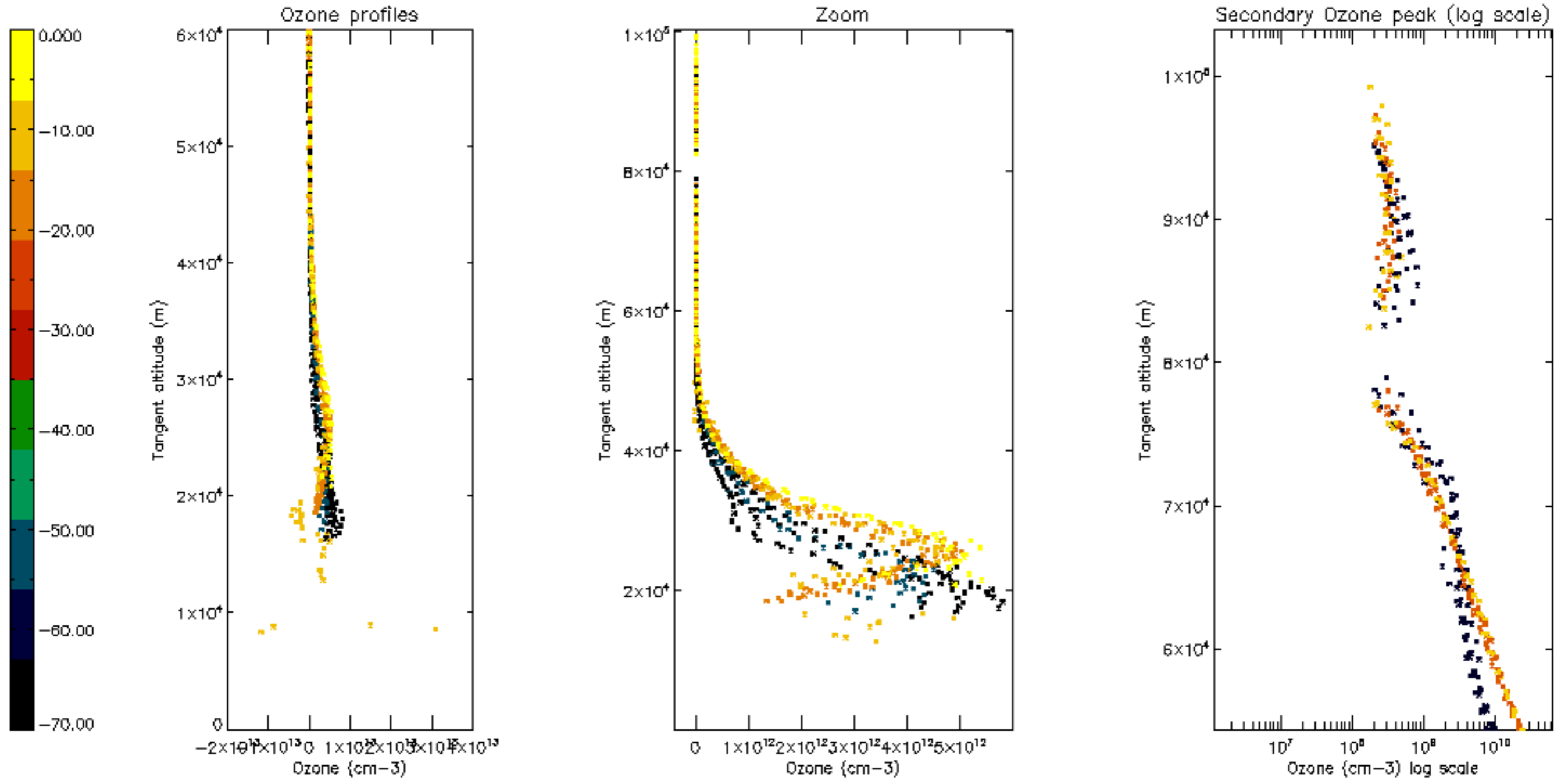
Percentage of star falling outside central band per profile



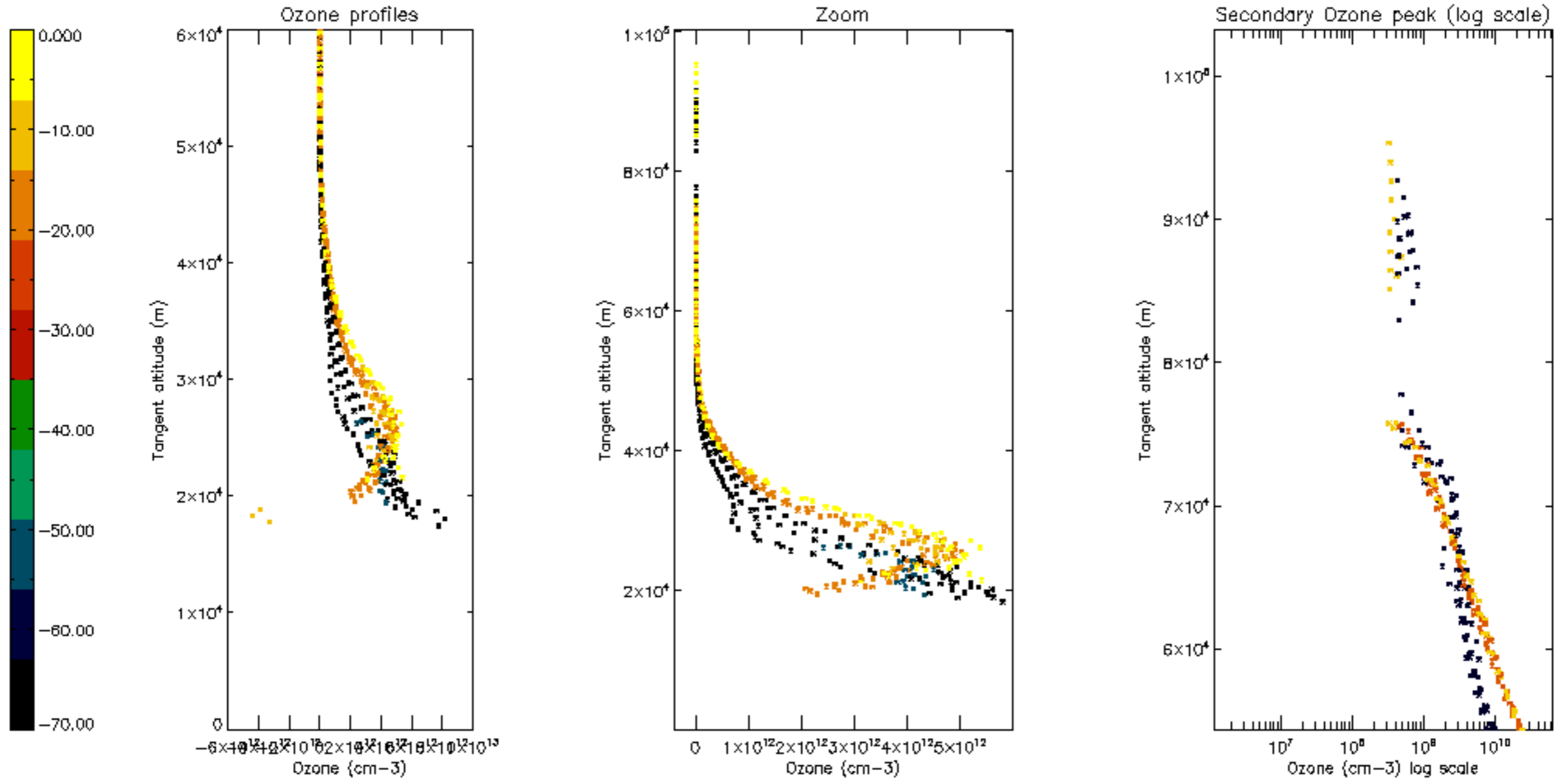
Percentage of saturation errors per profile

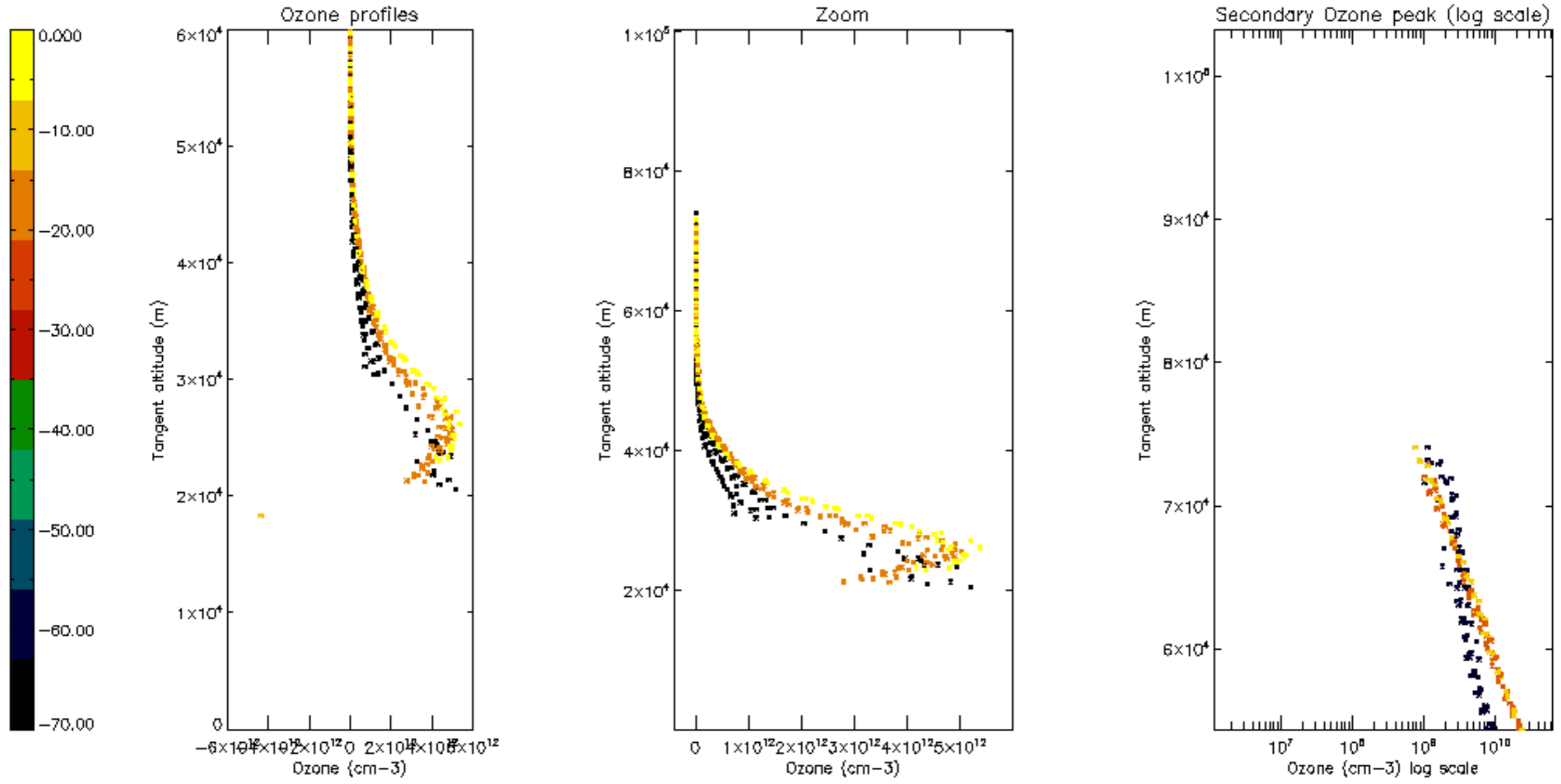


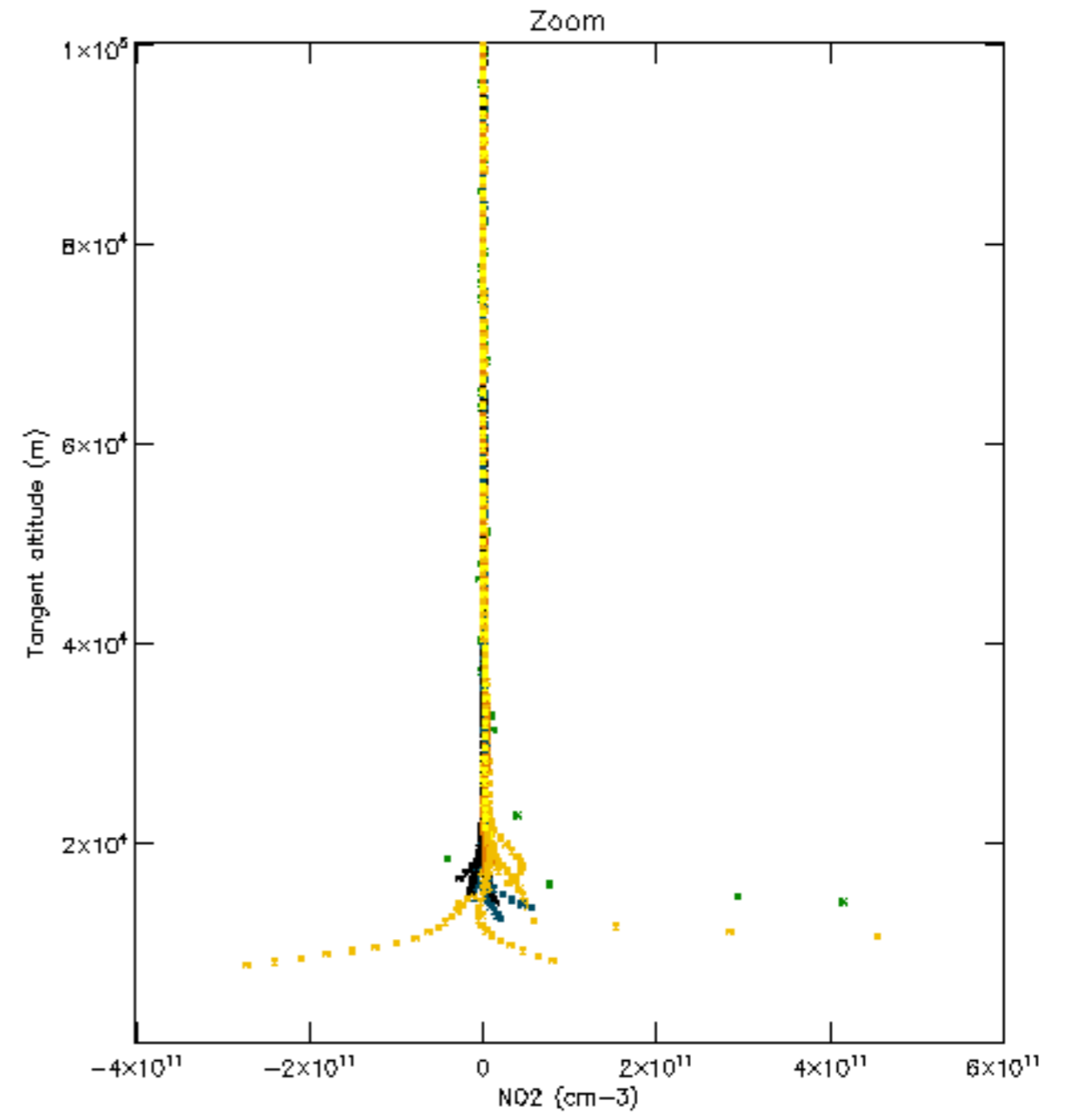
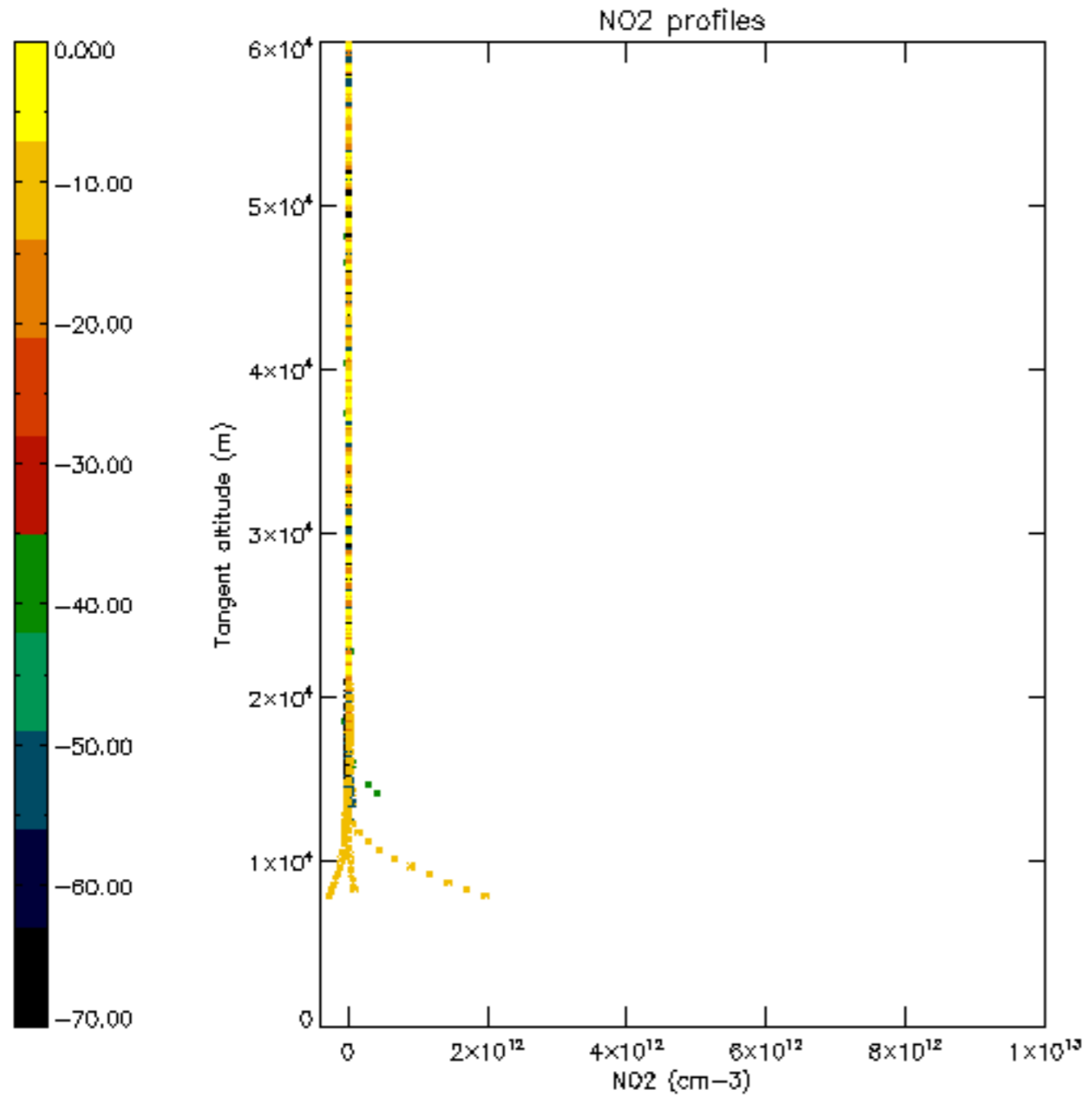


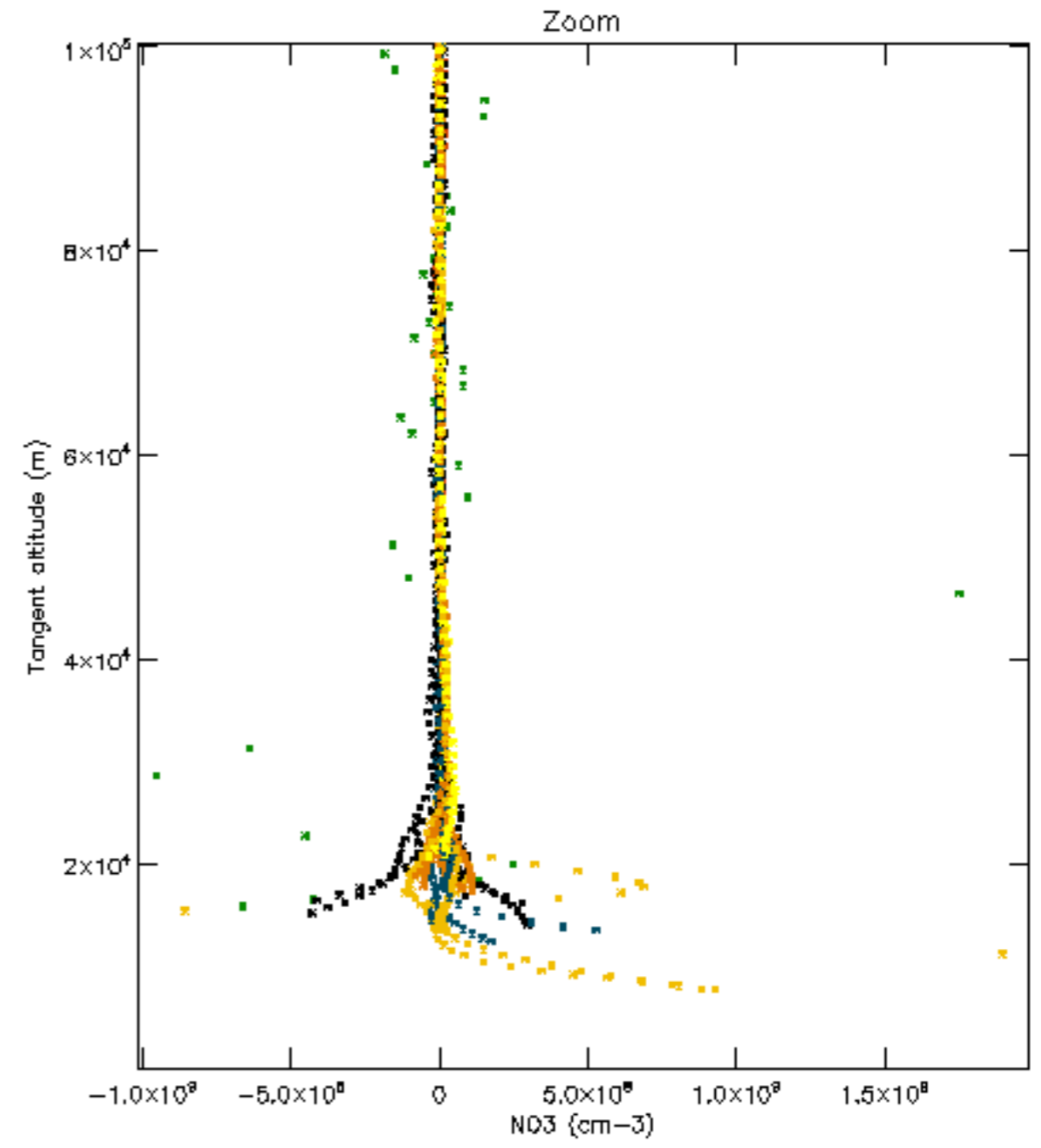
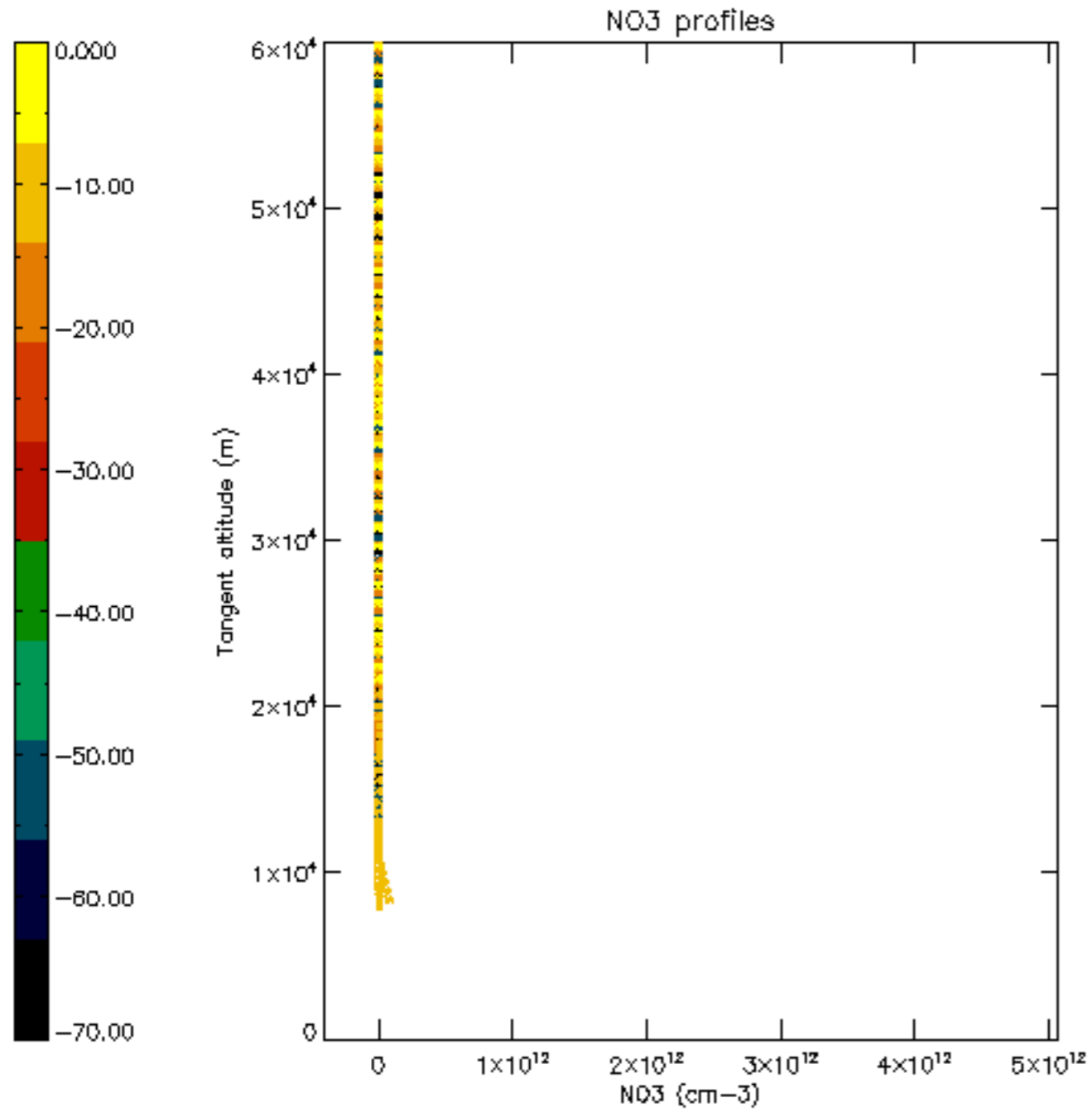


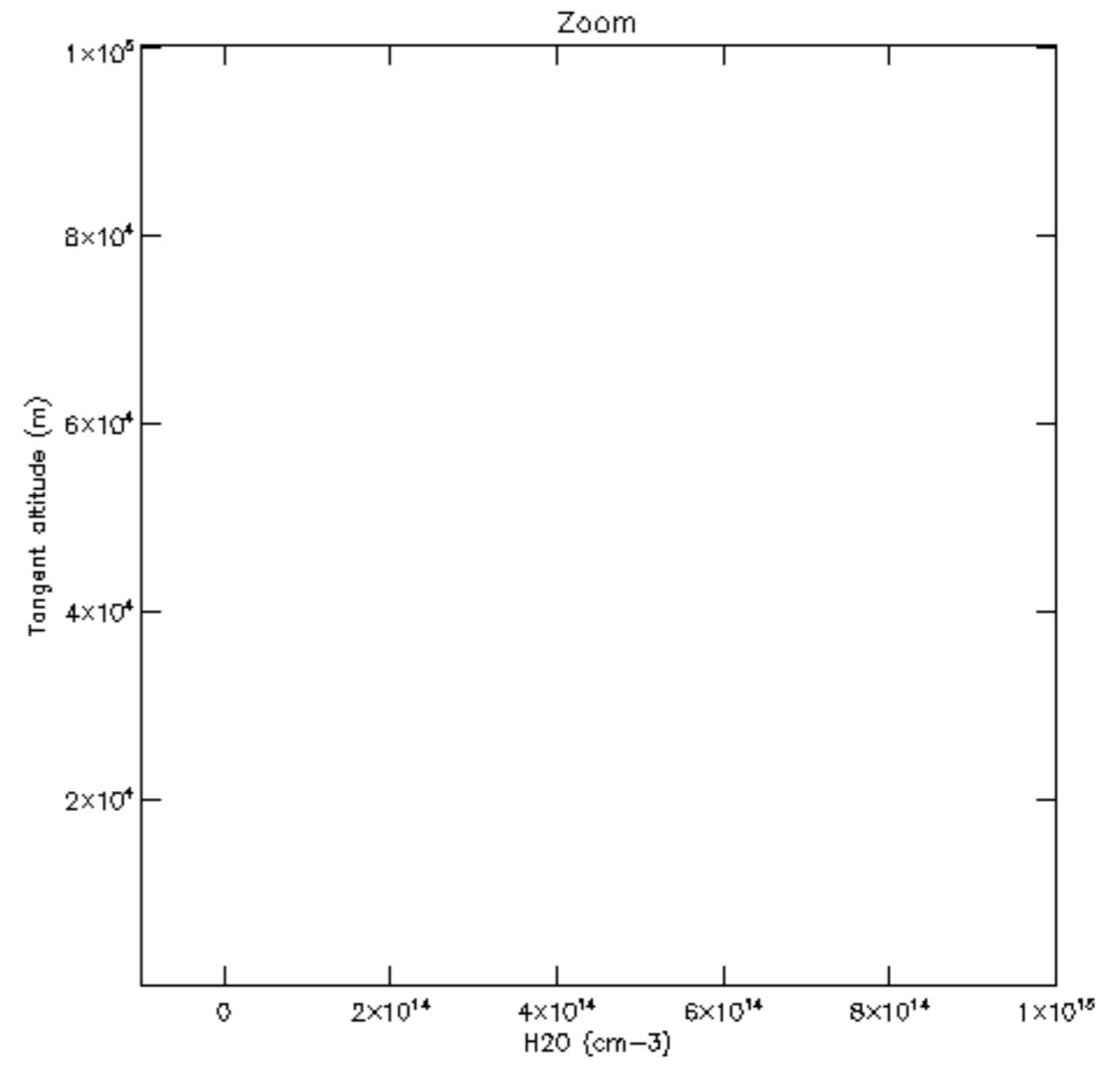
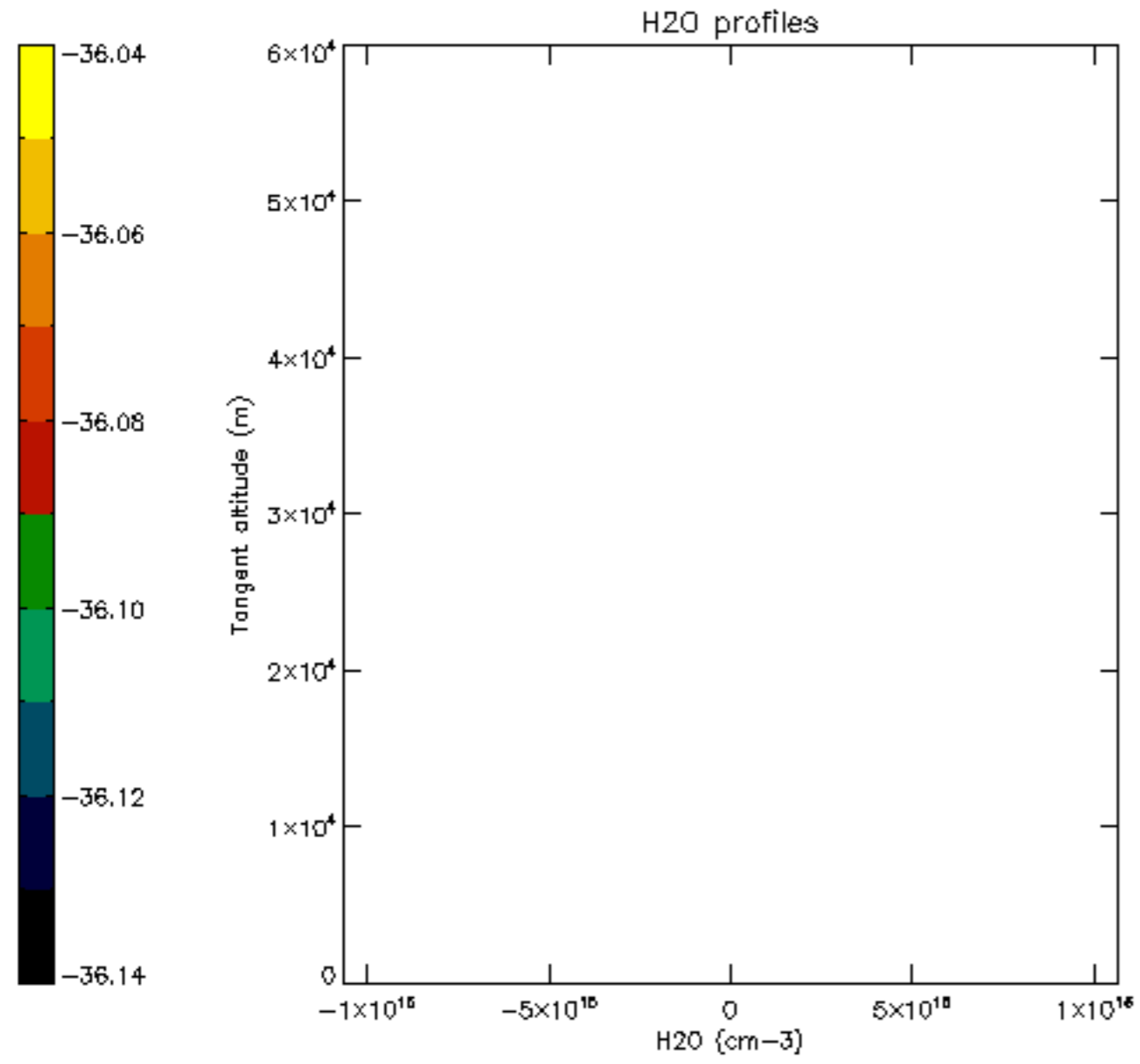


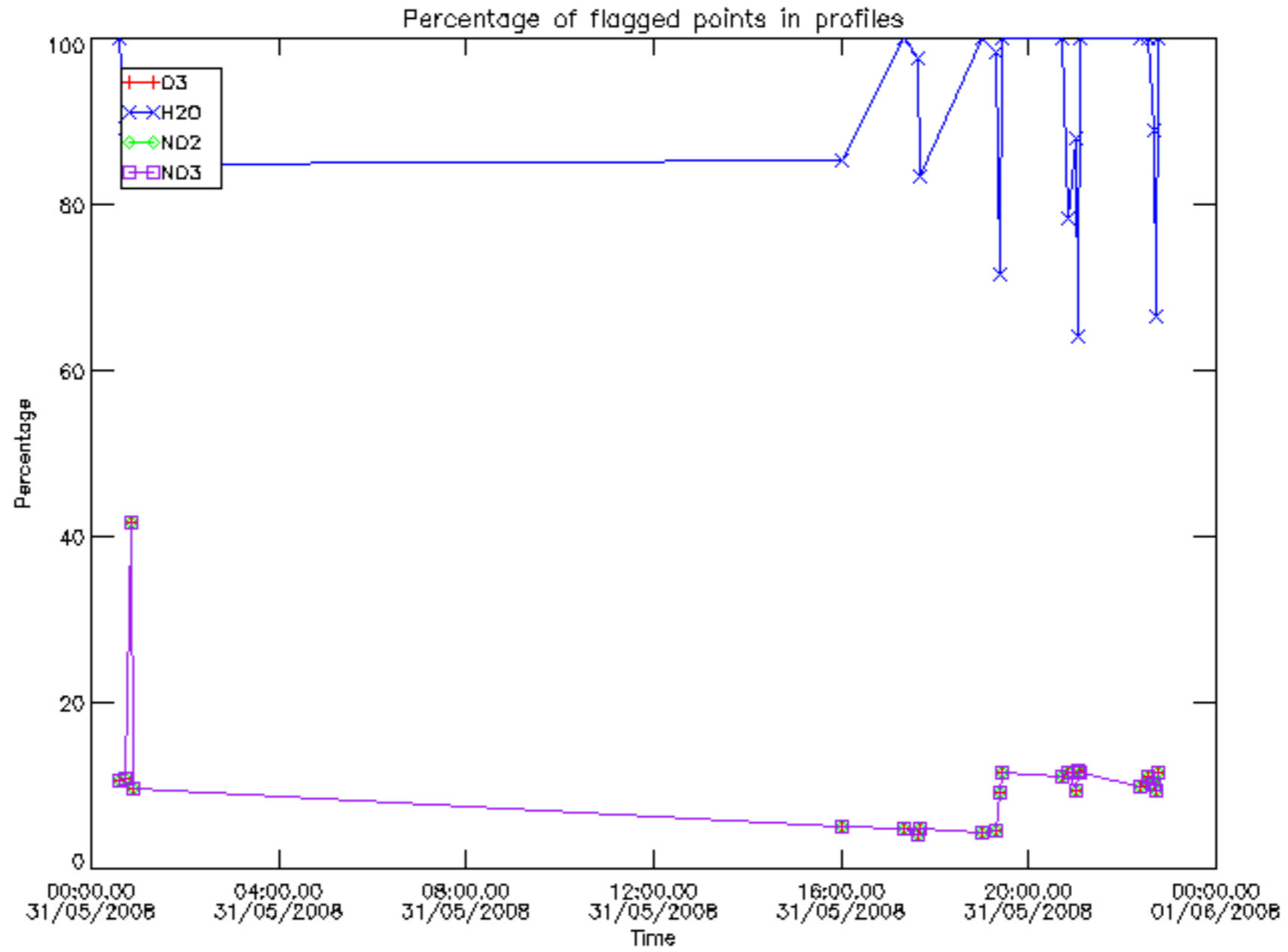




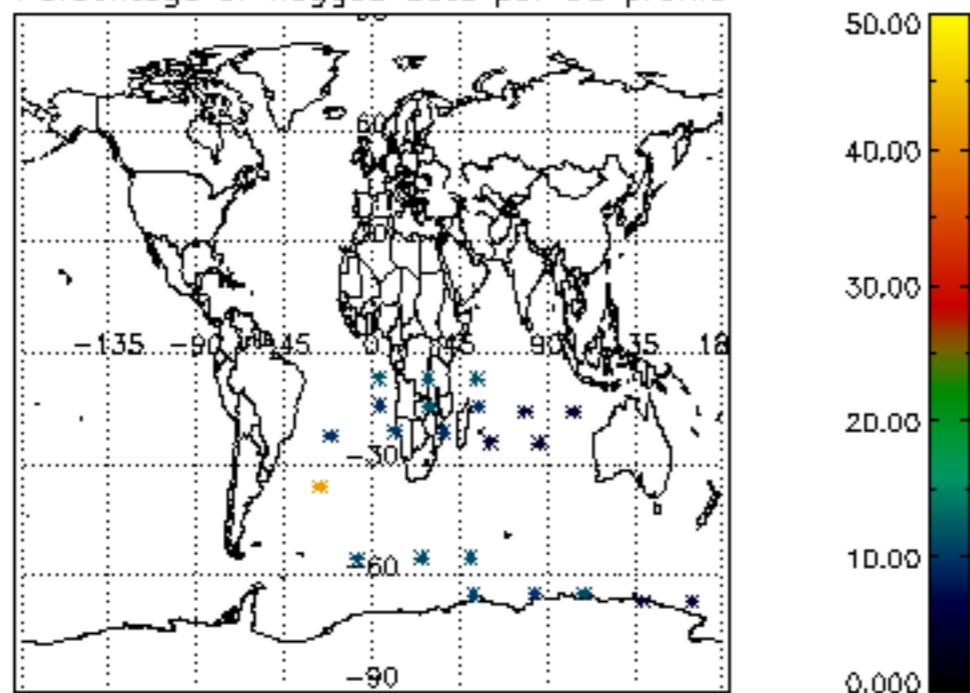




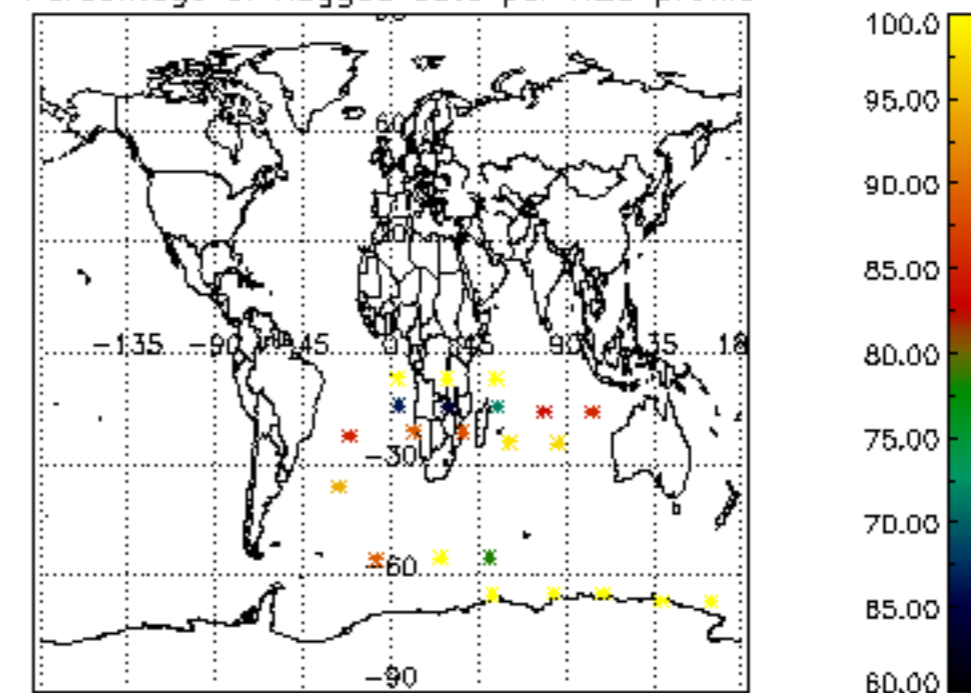




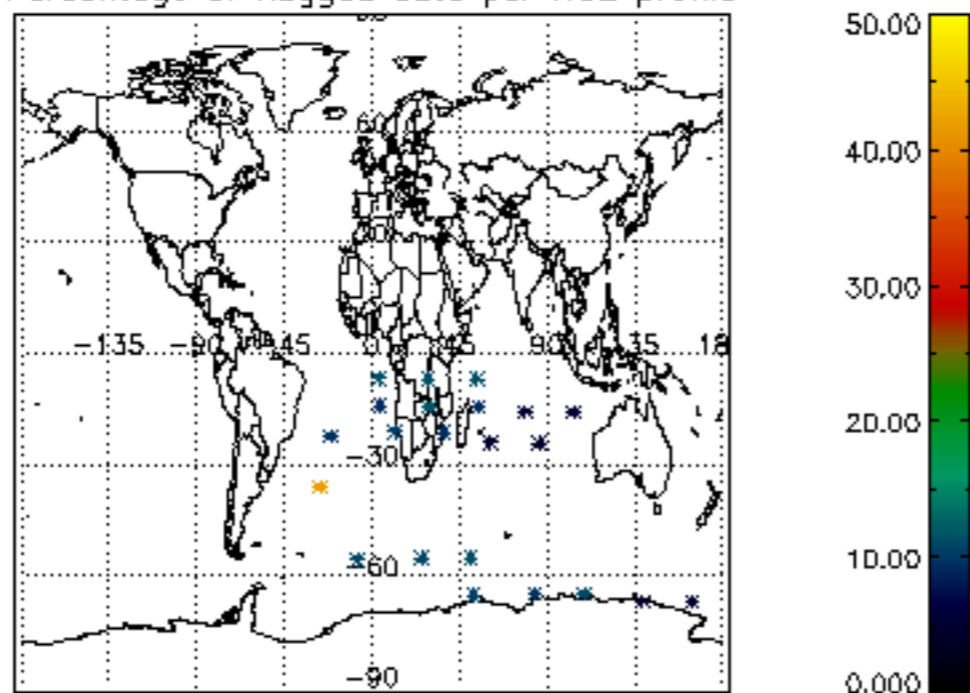
Percentage of flagged data per D3 profile



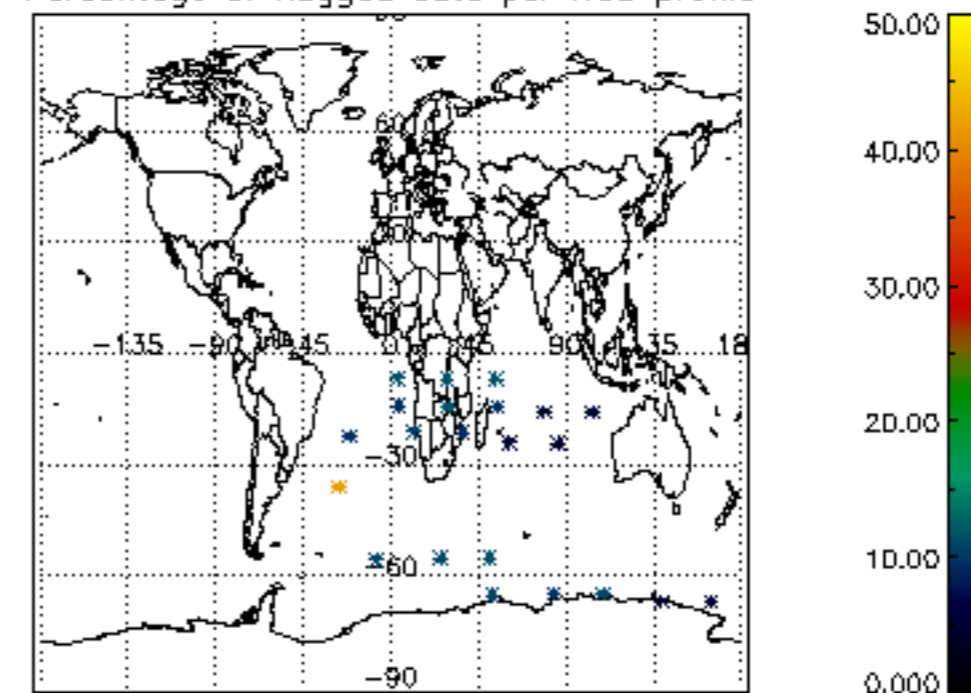
Percentage of flagged data per H2O profile

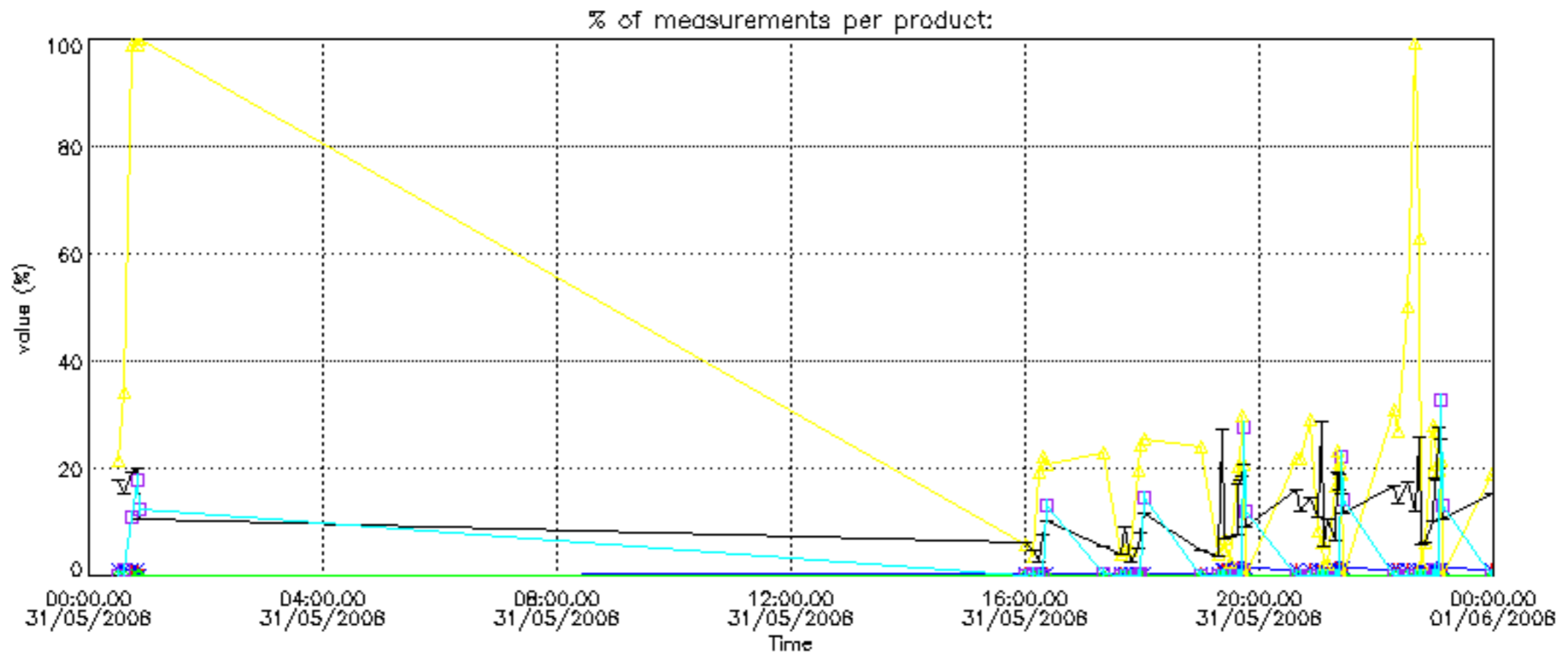


Percentage of flagged data per NO2 profile

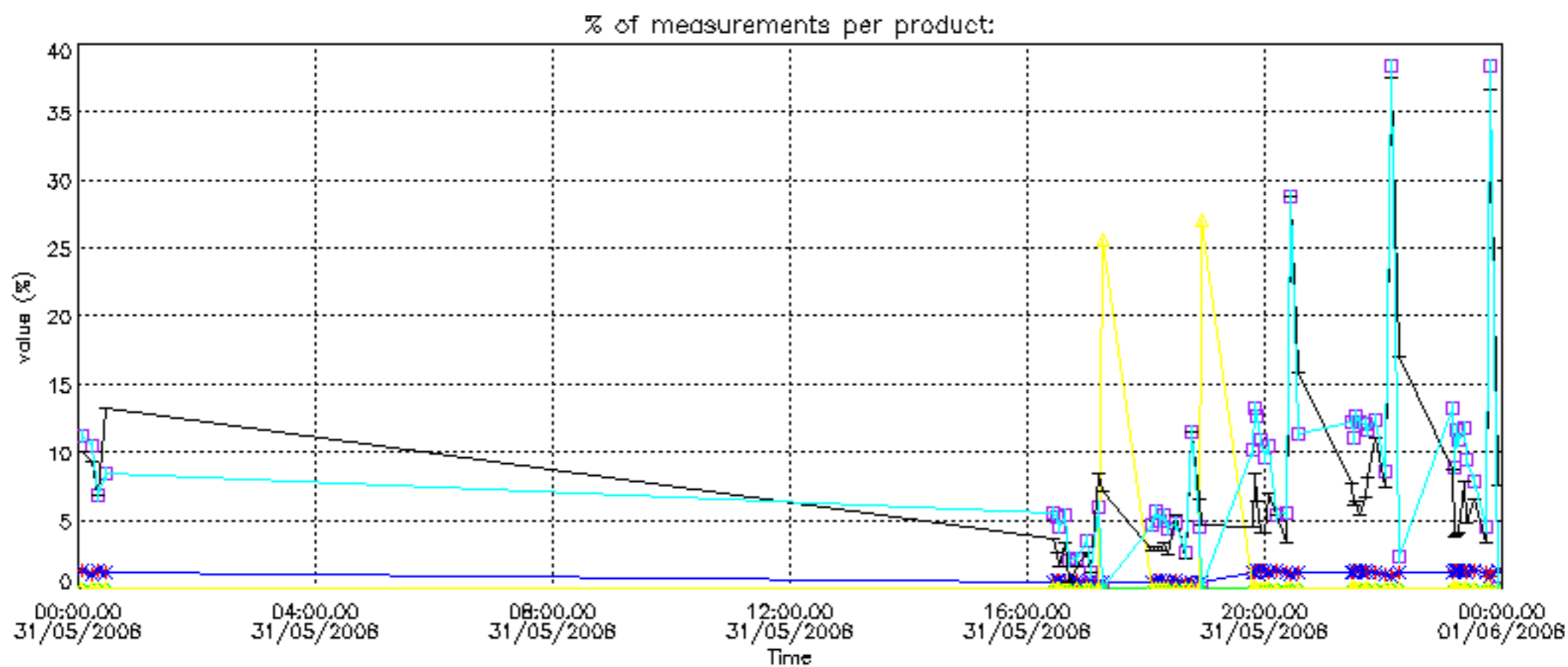


Percentage of flagged data per NO3 profile

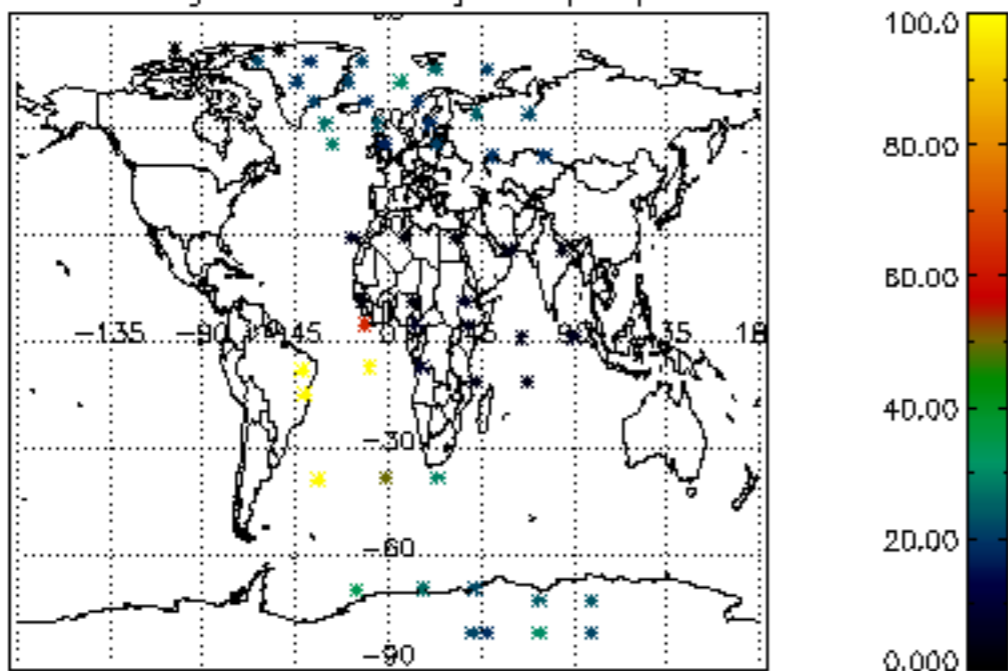




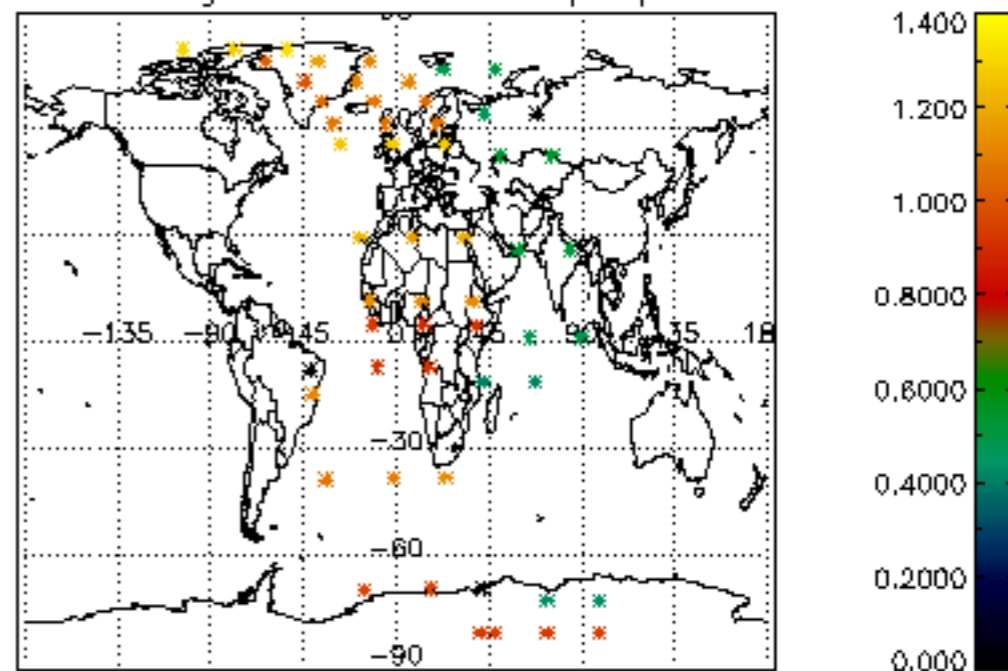




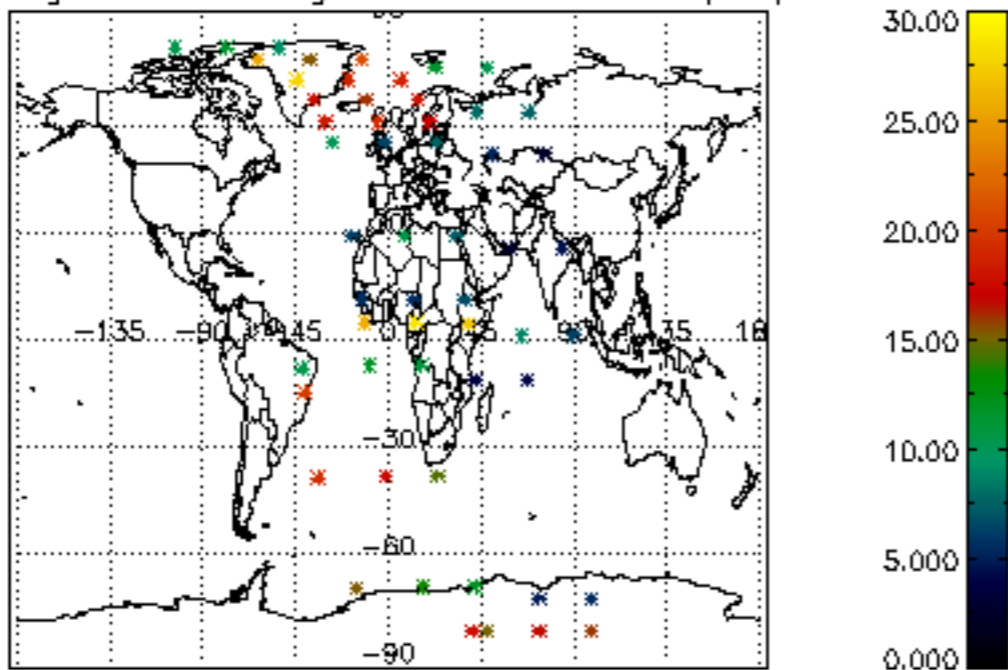
Percentage of cosmic ray hits per profile



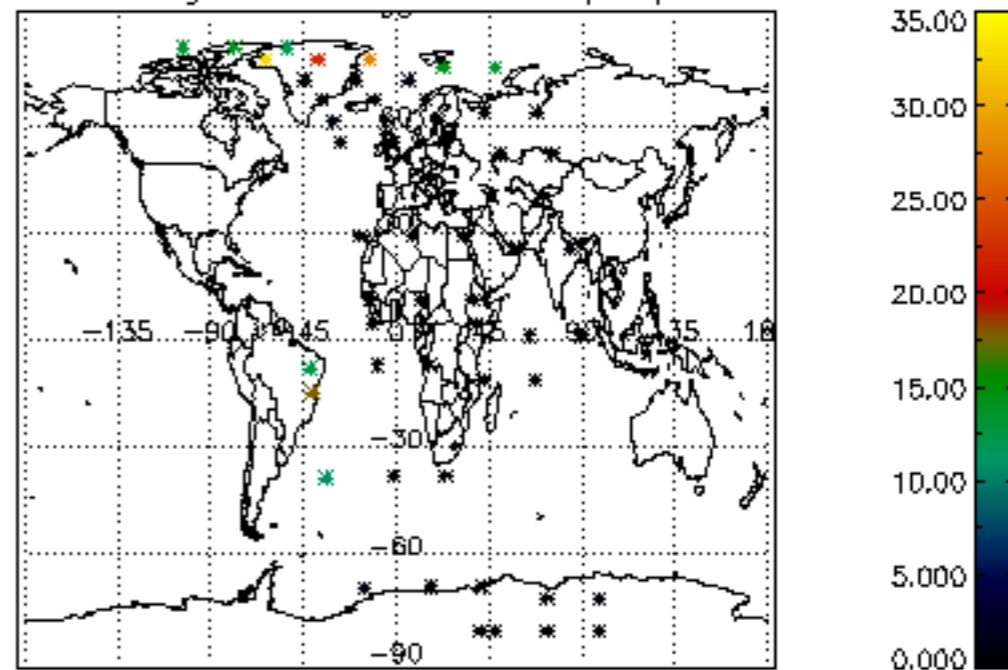
Percentage of datation errors per profile



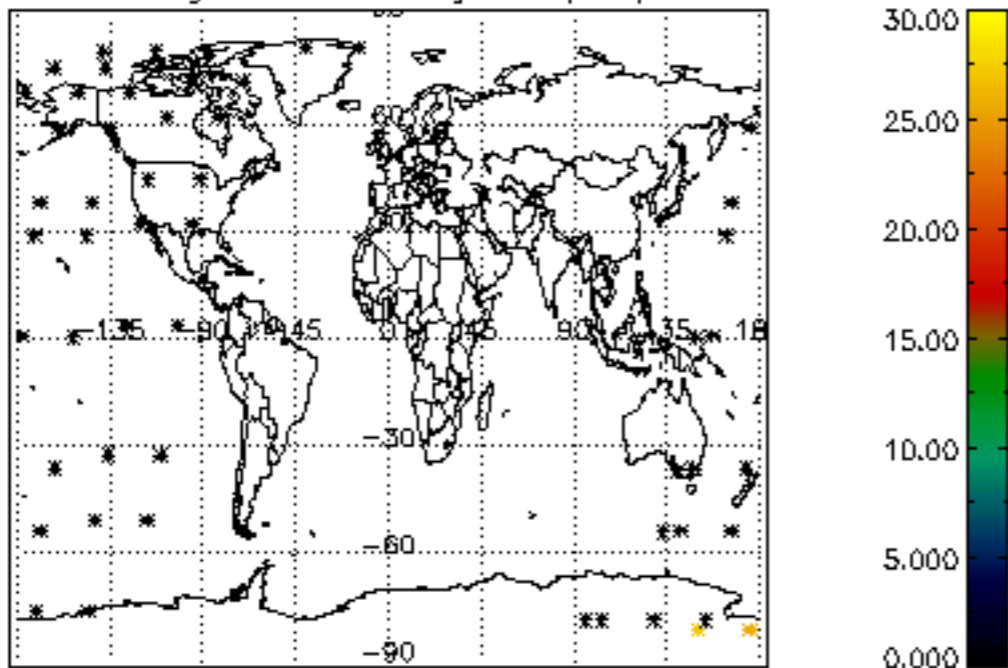
Percentage of star falling outside central band per profile



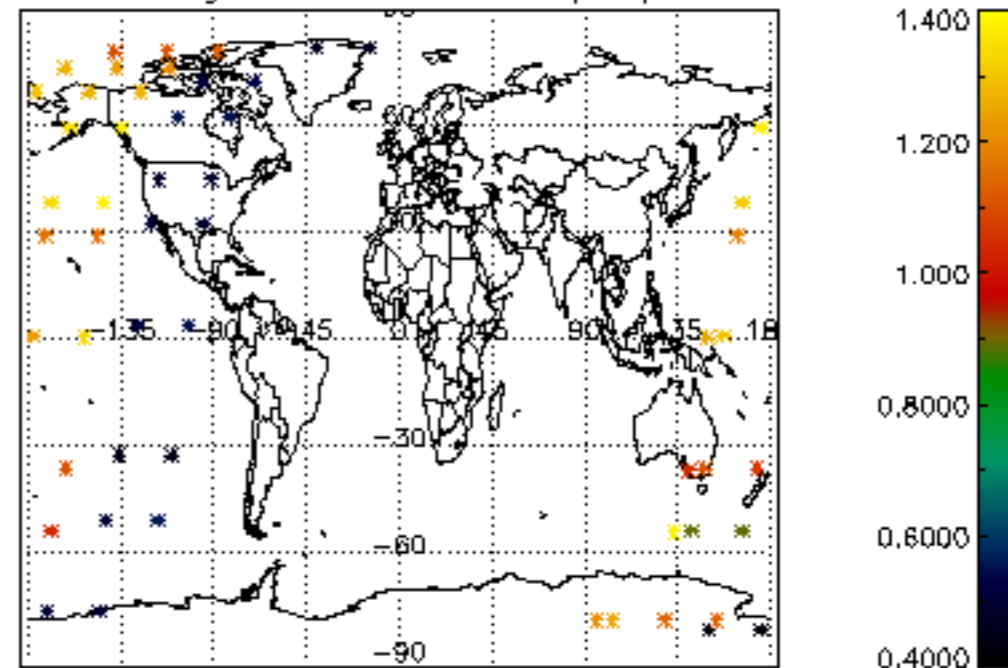
Percentage of saturation errors per profile



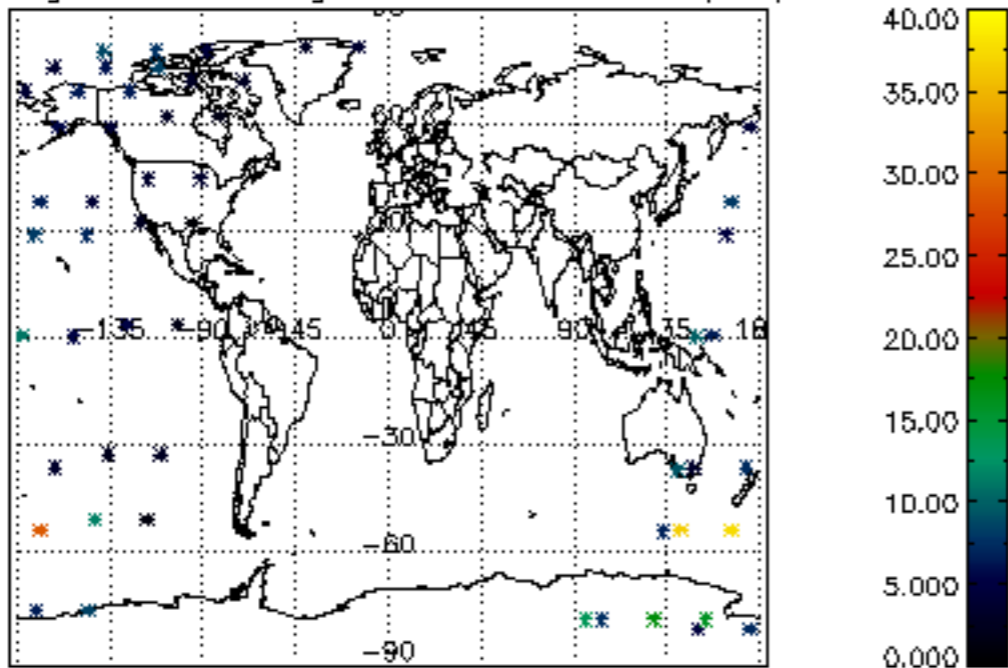
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

