

# GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	23APR2013 16:36:31
Data source version	GOMOS/6.01
Start time of products	28-03-2006 (28MAR2006 00:00:00)
Stop time of products	29-03-2006 (29MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	93
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

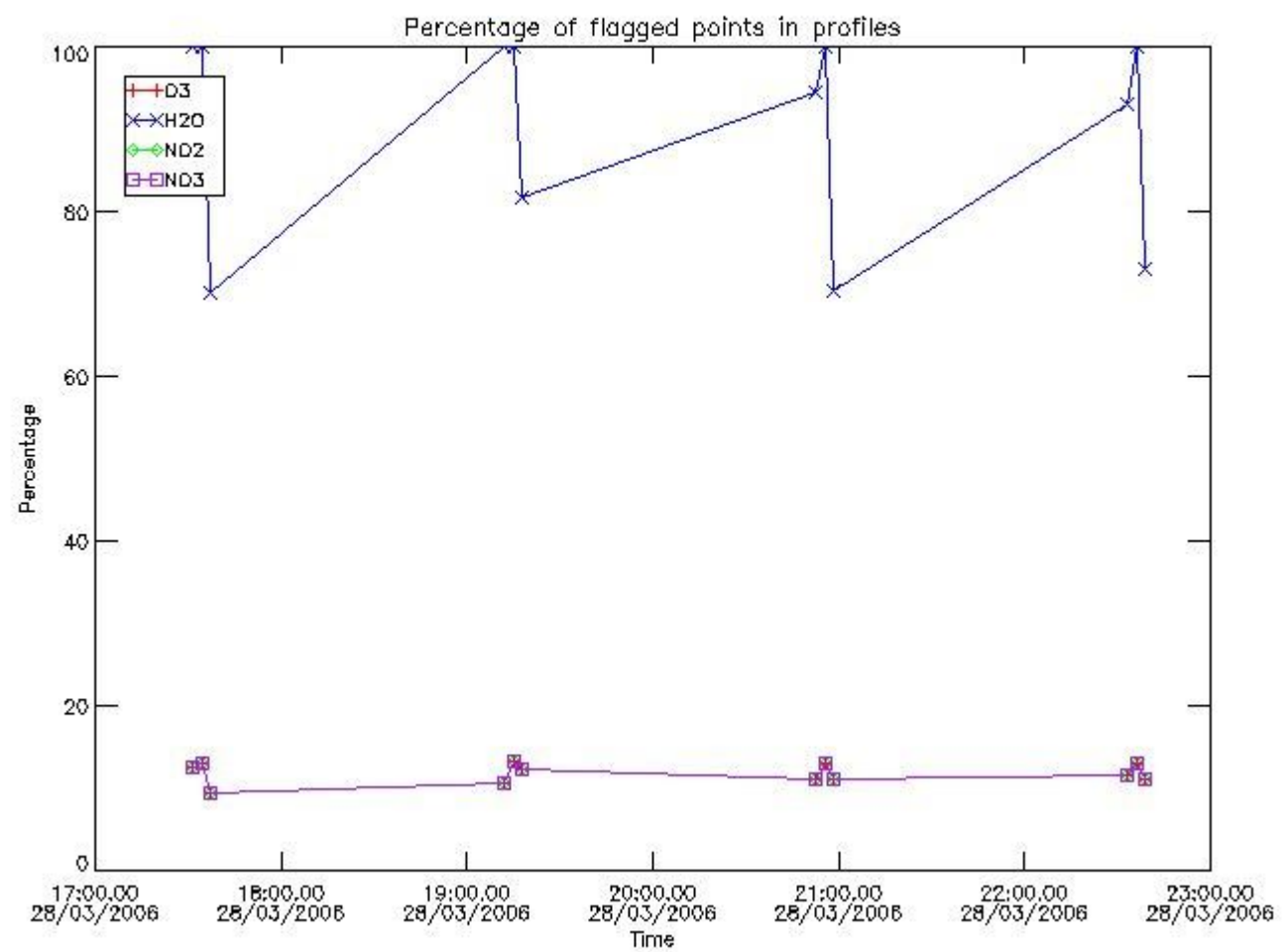
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060328_165052_000000382046_00212_21308_8640.N1	28-MAR-2006 16:50:52	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	21308	No
2	GOM_NL__2PRFIN20060328_165602_000000372046_00212_21308_8641.N1	28-MAR-2006 16:56:02	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	21308	No
3	GOM_NL__2PRFIN20060328_165740_000000442046_00212_21308_8642.N1	28-MAR-2006 16:57:40	Bright	43.500	66	37Gam Cyg	2.2080	5900.0	87	21308	No
4	GOM_NL__2PRFIN20060328_165936_000000412046_00212_21308_8643.N1	28-MAR-2006 16:59:36	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21308	No
5	GOM_NL__2PRFIN20060328_170602_000000392046_00212_21308_8644.N1	28-MAR-2006 17:06:02	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	21308	No
6	GOM_NL__2PRFIN20060328_171033_000000432046_00212_21308_8645.N1	28-MAR-2006 17:10:33	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	21308	No
7	GOM_NL__2PRFIN20060328_173121_000000412046_00213_21309_8640.N1	28-MAR-2006 17:31:21	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	21309	No
8	GOM_NL__2PRFIN20060328_173434_000000402046_00213_21309_8641.N1	28-MAR-2006 17:34:34	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21309	No
9	GOM_NL__2PRFIN20060328_173715_000000542046_00213_21309_8642.N1	28-MAR-2006 17:37:15	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	21309	No
10	GOM_NL__2PRFIN20060328_173951_000000452046_00213_21309_8643.N1	28-MAR-2006 17:39:51	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	21309	No
11	GOM_NL__2PRFIN20060328_174133_000000412046_00213_21309_8644.N1	28-MAR-2006 17:41:33	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	21309	No
12	GOM_NL__2PRFIN20060328_174302_000000392046_00213_21309_8645.N1	28-MAR-2006 17:43:02	Straylight	38.500	64	Gam Cen	2.2000	10600.	77	21309	No
13	GOM_NL__2PRFIN20060328_174533_000000462046_00213_21309_8646.N1	28-MAR-2006 17:45:33	Straylight	46.000	123	lot Cen	2.7500	10200.	92	21309	No
14	GOM_NL__2PRFIN20060328_175034_000000462046_00213_21309_8647.N1	28-MAR-2006 17:50:34	Straylight	46.000	106	9Bet Crv	2.6480	5600.0	92	21309	No
15	GOM_NL__2PRFIN20060328_175235_000000452046_00213_21309_8648.N1	28-MAR-2006 17:52:35	Tw_and_stray	45.000	100	4Gam Crv	2.5800	13100.	90	21309	No
16	GOM_NL__2PRFIN20060328_180231_000000402046_00213_21309_8649.N1	28-MAR-2006 18:02:31	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	21309	No
17	GOM_NL__2PRFIN20060328_180402_000000362046_00213_21309_8650.N1	28-MAR-2006 18:04:02	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	21309	No
18	GOM_NL__2PRFIN20060328_181055_000000392046_00213_21309_8651.N1	28-MAR-2006 18:10:55	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	21309	No
19	GOM_NL__2PRFIN20060328_181414_000000462046_00213_21309_8652.N1	28-MAR-2006 18:14:14	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	21309	No
20	GOM_NL__2PRFIN20060328_181546_000000382046_00213_21309_8653.N1	28-MAR-2006 18:15:46	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	21309	No
21	GOM_NL__2PRFIN20060328_182218_000000412046_00213_21309_8654.N1	28-MAR-2006 18:22:18	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	21309	No
22	GOM_NL__2PRFIN20060328_182343_000000352046_00213_21309_8655.N1	28-MAR-2006 18:23:43	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21309	No
23	GOM_NL__2PRFIN20060328_183128_000000342046_00213_21309_8656.N1	28-MAR-2006 18:31:28	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	21309	No
24	GOM_NL__2PRFIN20060328_183638_000000392046_00213_21309_8657.N1	28-MAR-2006 18:36:38	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	21309	No
25	GOM_NL__2PRFIN20060328_183816_000000432046_00213_21309_8658.N1	28-MAR-2006 18:38:16	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	21309	No
26	GOM_NL__2PRFIN20060328_184012_000000412046_00213_21309_8659.N1	28-MAR-2006 18:40:12	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21309	No
27	GOM_NL__2PRFIN20060328_184638_000000422046_00213_21309_8660.N1	28-MAR-2006 18:46:38	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	21309	No
28	GOM_NL__2PRFIN20060328_185109_000000442046_00213_21309_8661.N1	28-MAR-2006 18:51:09	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	21309	No
29	GOM_NL__2PRFIN20060328_191158_000000492046_00214_21310_8640.N1	28-MAR-2006 19:11:58	Dark	48.500	141	Bet Ara	2.8400	4600.0	97	21310	No
30	GOM_NL__2PRFIN20060328_191511_000000392046_00214_21310_8641.N1	28-MAR-2006 19:15:11	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21310	No
31	GOM_NL__2PRFIN20060328_191751_000000422046_00214_21310_8642.N1	28-MAR-2006 19:17:51	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	21310	No
32	GOM_NL__2PRFIN20060328_192028_000000462046_00214_21310_8643.N1	28-MAR-2006 19:20:28	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	21310	No
33	GOM_NL__2PRFIN20060328_192210_000000412046_00214_21310_8644.N1	28-MAR-2006 19:22:10	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	21310	No
34	GOM_NL__2PRFIN20060328_192339_000000422046_00214_21310_8645.N1	28-MAR-2006 19:23:39	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	21310	No
35	GOM_NL__2PRFIN20060328_192609_000000482046_00214_21310_8646.N1	28-MAR-2006 19:26:09	Straylight	48.000	123	lot Cen	2.7500	10200.	96	21310	No
36	GOM_NL__2PRFIN20060328_193110_000000482046_00214_21310_8647.N1	28-MAR-2006 19:31:10	Straylight	47.500	106	9Bet Crv	2.6480	5600.0	95	21310	No
37	GOM_NL__2PRFIN20060328_193311_000000432046_00214_21310_8648.N1	28-MAR-2006 19:33:11	Tw_and_stray	43.000	100	4Gam Crv	2.5800	13100.	86	21310	No
38	GOM_NL__2PRFIN20060328_194307_000000402046_00214_21310_8649.N1	28-MAR-2006 19:43:07	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	21310	No
39	GOM_NL__2PRFIN20060328_194438_000000372046_00214_21310_8650.N1	28-MAR-2006 19:44:38	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	21310	No
40	GOM_NL__2PRFIN20060328_195131_000000372046_00214_21310_8651.N1	28-MAR-2006 19:51:31	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	21310	No
41	GOM_NL__2PRFIN20060328_195450_000000352046_00214_21310_8652.N1	28-MAR-2006 19:54:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	21310	No
42	GOM_NL__2PRFIN20060328_195621_000000352046_00214_21310_8653.N1	28-MAR-2006 19:56:21	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	21310	No

43	GOM_NL__2PRFIN20060328_200253_000000412046_00214_21310_8654.N1	28-MAR-2006 20:02:53	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	21310	No
44	GOM_NL__2PRFIN20060328_200419_000000352046_00214_21310_8655.N1	28-MAR-2006 20:04:19	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21310	No
45	GOM_NL__2PRFIN20060328_201204_000000362046_00214_21310_8656.N1	28-MAR-2006 20:12:04	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	21310	No
46	GOM_NL__2PRFIN20060328_201714_000000412046_00214_21310_8657.N1	28-MAR-2006 20:17:14	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	21310	No
47	GOM_NL__2PRFIN20060328_201852_000000432046_00214_21310_8658.N1	28-MAR-2006 20:18:52	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	21310	No
48	GOM_NL__2PRFIN20060328_202048_000000422046_00214_21310_8659.N1	28-MAR-2006 20:20:48	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	21310	No
49	GOM_NL__2PRFIN20060328_202714_000000432046_00214_21310_8660.N1	28-MAR-2006 20:27:14	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	21310	No
50	GOM_NL__2PRFIN20060328_203145_000000442046_00214_21310_8661.N1	28-MAR-2006 20:31:45	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	21310	No
51	GOM_NL__2PRFIN20060328_205234_000000462046_00215_21311_8640.N1	28-MAR-2006 20:52:34	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	21311	No
52	GOM_NL__2PRFIN20060328_205547_000000392046_00215_21311_8641.N1	28-MAR-2006 20:55:47	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21311	No
53	GOM_NL__2PRFIN20060328_205828_000000552046_00215_21311_8642.N1	28-MAR-2006 20:58:28	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	21311	No
54	GOM_NL__2PRFIN20060328_210104_000000442046_00215_21311_8643.N1	28-MAR-2006 21:01:04	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	21311	No
55	GOM_NL__2PRFIN20060328_210246_000000442046_00215_21311_8644.N1	28-MAR-2006 21:02:46	Straylight	43.500	95	Zet Cen	2.5450	26000.	87	21311	No
56	GOM_NL__2PRFIN20060328_210415_000000402046_00215_21311_8645.N1	28-MAR-2006 21:04:15	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	21311	No
57	GOM_NL__2PRFIN20060328_210645_000000452046_00215_21311_8646.N1	28-MAR-2006 21:06:45	Straylight	45.000	123	lot Cen	2.7500	10200.	90	21311	No
58	GOM_NL__2PRFIN20060328_211146_000000462046_00215_21311_8647.N1	28-MAR-2006 21:11:46	Straylight	45.500	106	9Bet Crv	2.6480	5600.0	91	21311	No
59	GOM_NL__2PRFIN20060328_211347_000000442046_00215_21311_8648.N1	28-MAR-2006 21:13:47	Twi_and_stray	44.000	100	4Gam Crv	2.5800	13100.	88	21311	No
60	GOM_NL__2PRFIN20060328_212343_000000392046_00215_21311_8649.N1	28-MAR-2006 21:23:43	Bright	39.000	62	94Bet Leo	2.1360	9700.0	78	21311	No
61	GOM_NL__2PRFIN20060328_212514_000000372046_00215_21311_8650.N1	28-MAR-2006 21:25:14	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	21311	No
62	GOM_NL__2PRFIN20060328_213206_000000362046_00215_21311_8651.N1	28-MAR-2006 21:32:06	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21311	No
63	GOM_NL__2PRFIN20060328_213526_000000352046_00215_21311_8652.N1	28-MAR-2006 21:35:26	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	21311	No
64	GOM_NL__2PRFIN20060328_213657_000000392046_00215_21311_8653.N1	28-MAR-2006 21:36:57	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	21311	No
65	GOM_NL__2PRFIN20060328_214329_000000412046_00215_21311_8654.N1	28-MAR-2006 21:43:29	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	21311	No
66	GOM_NL__2PRFIN20060328_214455_000000352046_00215_21311_8655.N1	28-MAR-2006 21:44:55	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21311	No
67	GOM_NL__2PRFIN20060328_215240_000000362046_00215_21311_8656.N1	28-MAR-2006 21:52:40	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	21311	No
68	GOM_NL__2PRFIN20060328_215750_000000412046_00215_21311_8657.N1	28-MAR-2006 21:57:50	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21311	No
69	GOM_NL__2PRFIN20060328_215928_000000412046_00215_21311_8658.N1	28-MAR-2006 21:59:28	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	21311	No
70	GOM_NL__2PRFIN20060328_220124_000000412046_00215_21311_8659.N1	28-MAR-2006 22:01:24	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21311	No
71	GOM_NL__2PRFIN20060328_220750_000000432046_00215_21311_8660.N1	28-MAR-2006 22:07:50	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	21311	No
72	GOM_NL__2PRFIN20060328_221222_000000432046_00215_21311_8661.N1	28-MAR-2006 22:12:22	Twilight	42.500	154	22Bet Aqr	2.8990	5700.0	85	21311	No
73	GOM_NL__2PRFIN20060328_223311_000000442046_00216_21312_8640.N1	28-MAR-2006 22:33:11	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	21312	No
74	GOM_NL__2PRFIN20060328_223623_000000392046_00216_21312_8641.N1	28-MAR-2006 22:36:23	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21312	No
75	GOM_NL__2PRFIN20060328_223904_000000512046_00216_21312_8642.N1	28-MAR-2006 22:39:04	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	21312	No
76	GOM_NL__2PRFIN20060328_224141_000000472046_00216_21312_8643.N1	28-MAR-2006 22:41:41	Straylight	46.500	78	Alp Lup	2.3040	28000.	93	21312	No
77	GOM_NL__2PRFIN20060328_224322_000000432046_00216_21312_8644.N1	28-MAR-2006 22:43:22	Straylight	43.000	95	Zet Cen	2.5450	26000.	86	21312	No
78	GOM_NL__2PRFIN20060328_224451_000000412046_00216_21312_8645.N1	28-MAR-2006 22:44:51	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	21312	No
79	GOM_NL__2PRFIN20060328_224721_000000482046_00216_21312_8646.N1	28-MAR-2006 22:47:21	Straylight	48.000	123	lot Cen	2.7500	10200.	96	21312	No
80	GOM_NL__2PRFIN20060328_225222_000000482046_00216_21312_8647.N1	28-MAR-2006 22:52:22	Straylight	47.500	106	9Bet Crv	2.6480	5600.0	95	21312	No
81	GOM_NL__2PRFIN20060328_225423_000000412046_00216_21312_8648.N1	28-MAR-2006 22:54:23	Twi_and_stray	41.000	100	4Gam Crv	2.5800	13100.	82	21312	No
82	GOM_NL__2PRFIN20060328_230418_000000392046_00216_21312_8649.N1	28-MAR-2006 23:04:18	Bright	39.000	62	94Bet Leo	2.1360	9700.0	78	21312	No
83	GOM_NL__2PRFIN20060328_230550_000000532046_00216_21312_8650.N1	28-MAR-2006 23:05:50	Bright	53.000	96	68Del Leo	2.5600	9300.0	106	21312	No
84	GOM_NL__2PRFIN20060328_231242_000000352046_00216_21312_8651.N1	28-MAR-2006 23:12:42	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	21312	No
85	GOM_NL__2PRFIN20060328_231601_000000532046_00216_21312_8652.N1	28-MAR-2006 23:16:01	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	21312	No
86	GOM_NL__2PRFIN20060328_231733_000000372046_00216_21312_8653.N1	28-MAR-2006 23:17:33	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	21312	No
87	GOM_NL__2PRFIN20060328_232404_000000372046_00216_21312_8654.N1	28-MAR-2006 23:24:04	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	21312	No
88	GOM_NL__2PRFIN20060328_232530_000000362046_00216_21312_8655.N1	28-MAR-2006 23:25:30	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	21312	No
89	GOM_NL__2PRFIN20060328_233315_000000382046_00216_21312_8656.N1	28-MAR-2006 23:33:15	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	21312	No
90	GOM_NL__2PRFIN20060328_233826_000000412046_00216_21312_8657.N1	28-MAR-2006 23:38:26	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21312	No
91	GOM_NL__2PRFIN20060328_234200_000000422046_00216_21312_8658.N1	28-MAR-2006 23:42:00	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	21312	No
92	GOM_NL__2PRFIN20060328_234826_000000432046_00216_21312_8659.N1	28-MAR-2006 23:48:26	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	21312	No
93	GOM_NL__2PRFIN20060328_235258_000000432046_00216_21312_8660.N1	28-MAR-2006 23:52:58	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	21312	No

### 3. Quality information per product

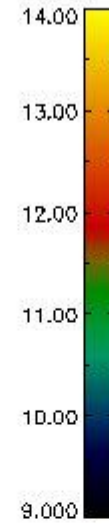
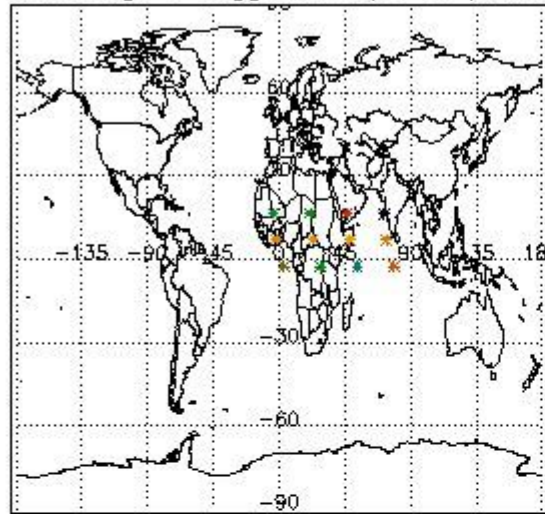
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

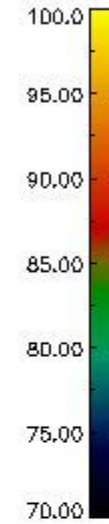
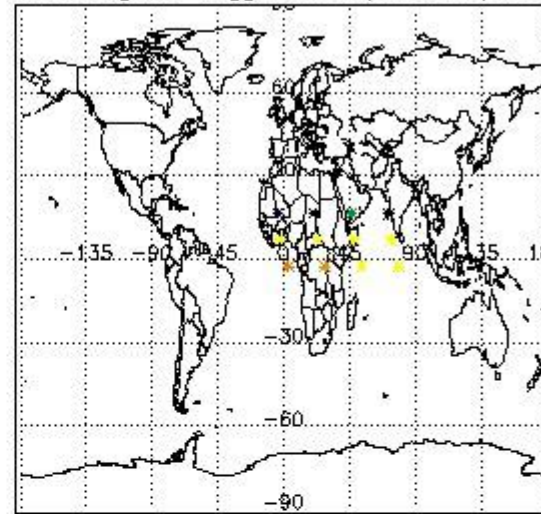


3.2 Plot quality information per product (world map)

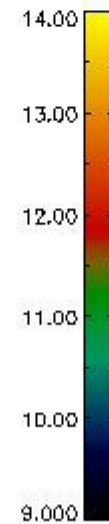
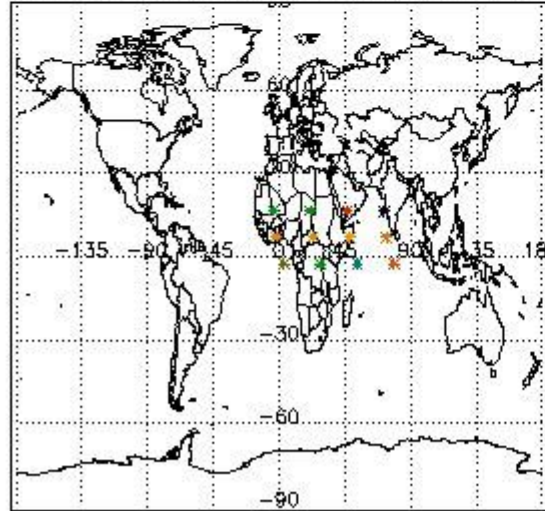
Percentage of flagged data per O3 profile



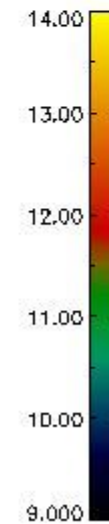
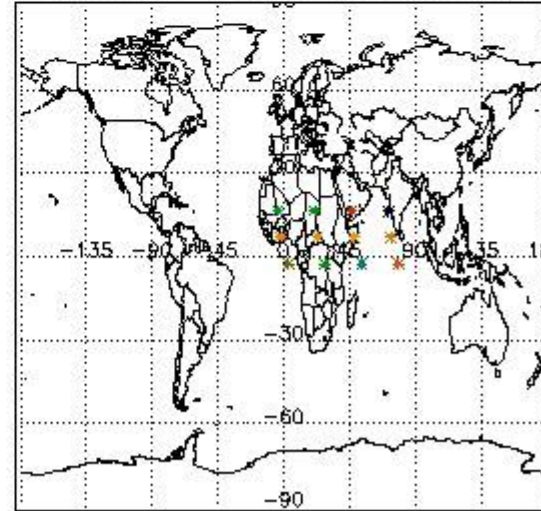
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

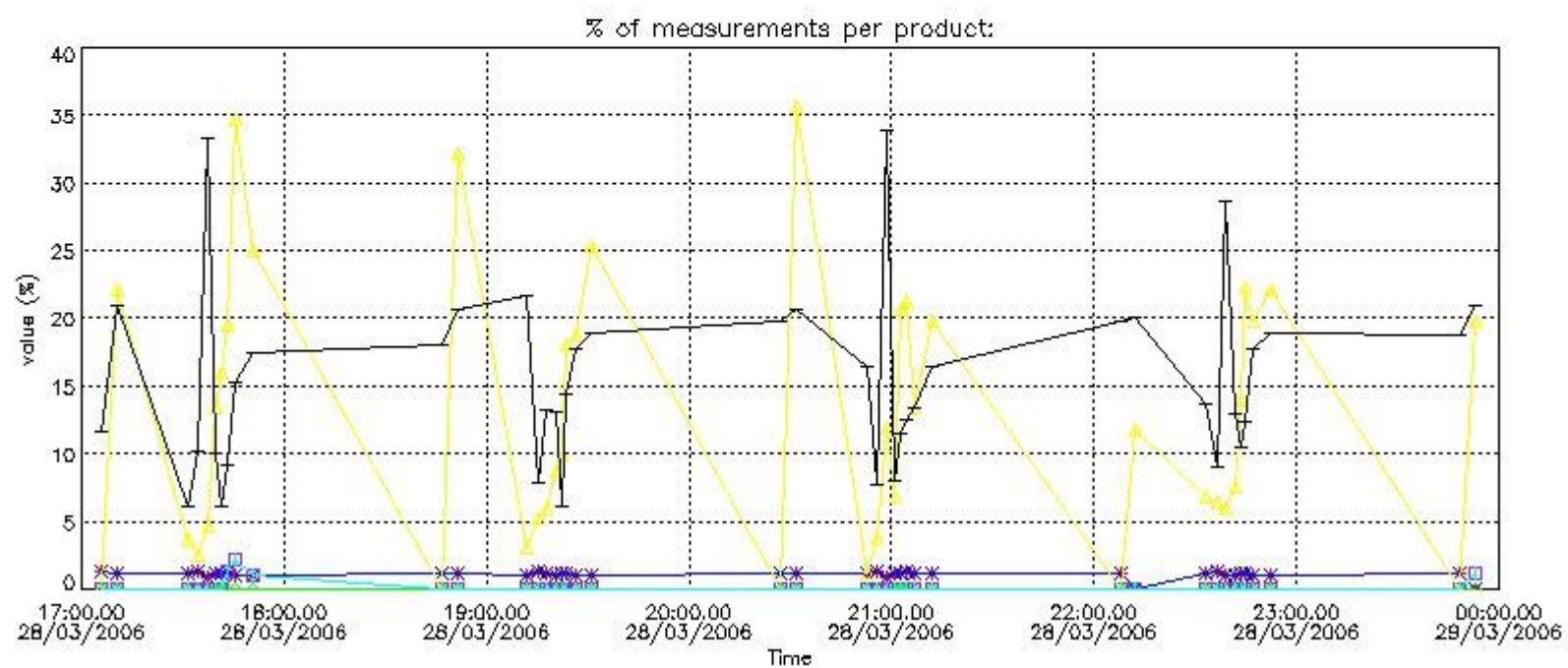
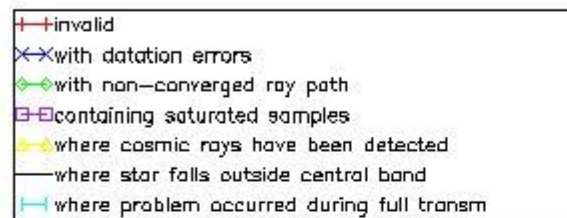


#### 4. Level 1 quality information per product

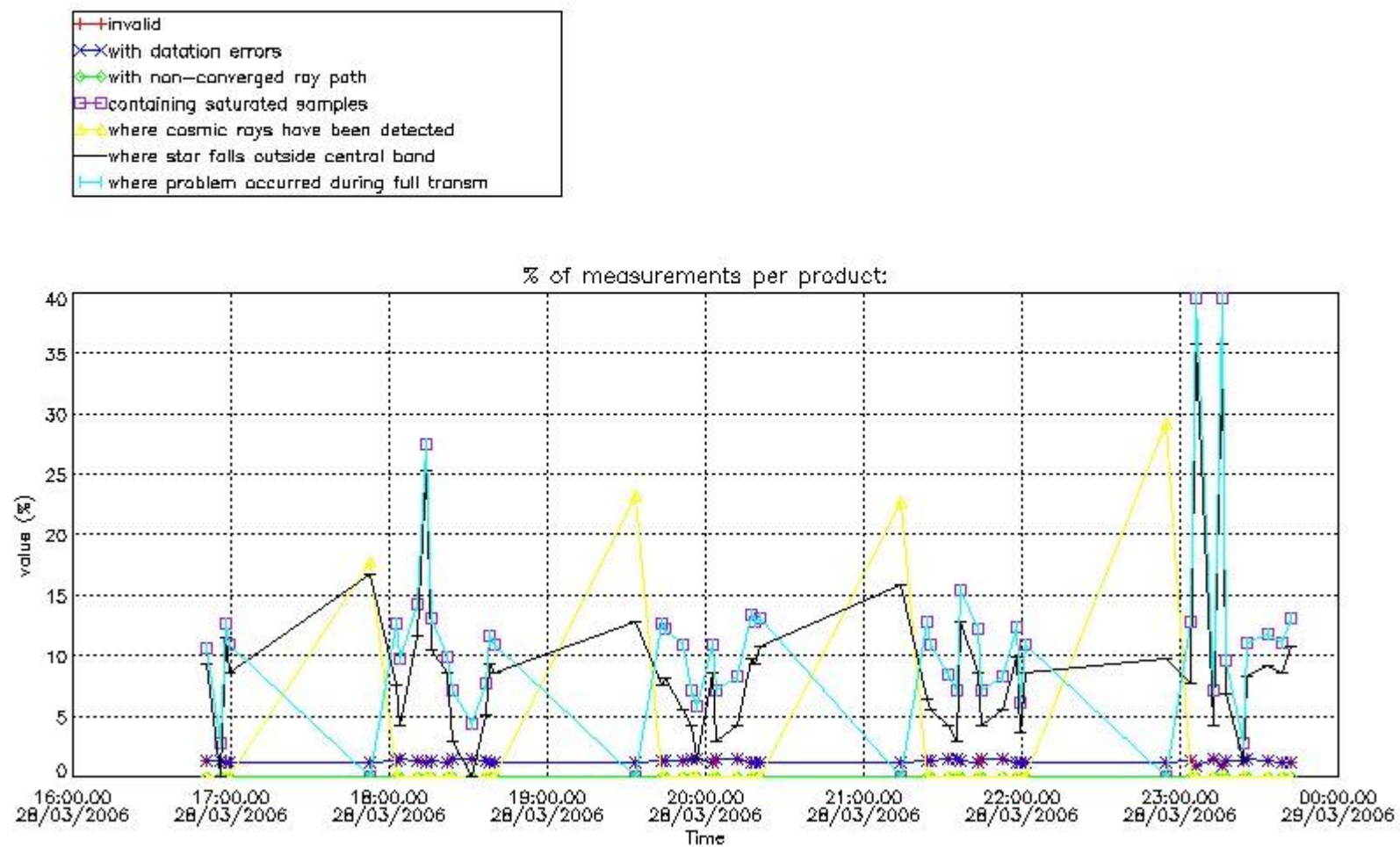
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



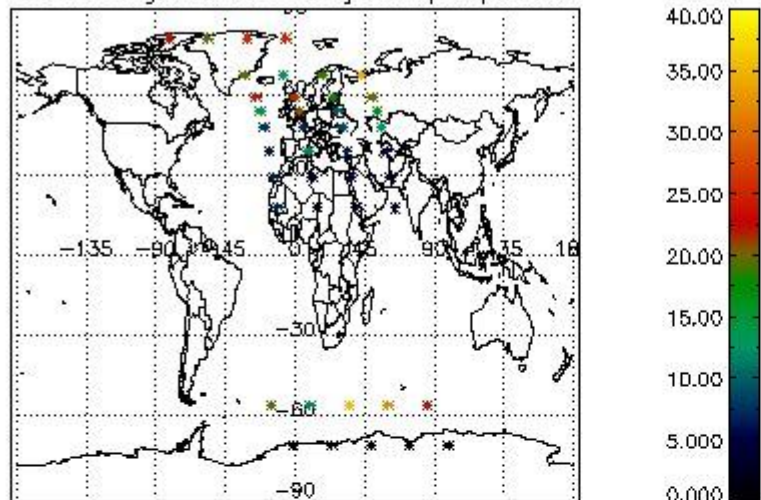
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



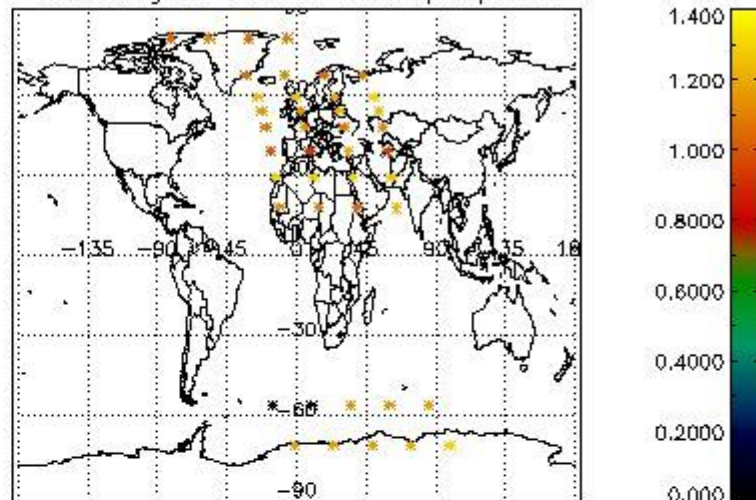
4.2 Plot quality information per product coming from level 1b processing (world map)

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

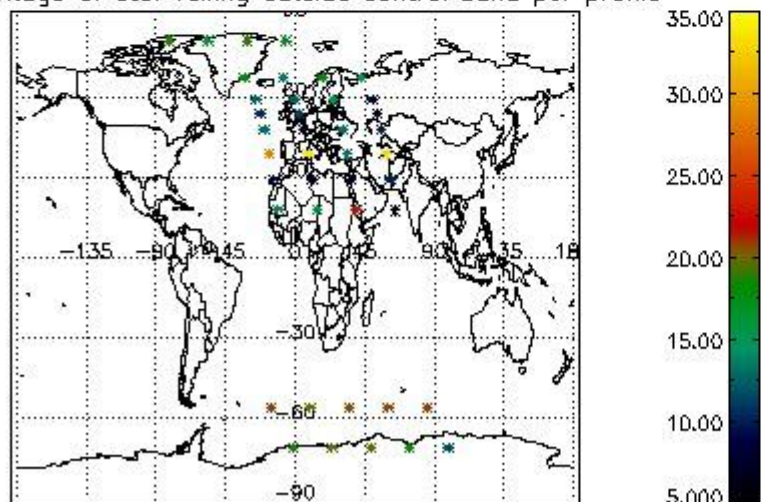
Percentage of cosmic ray hits per profile



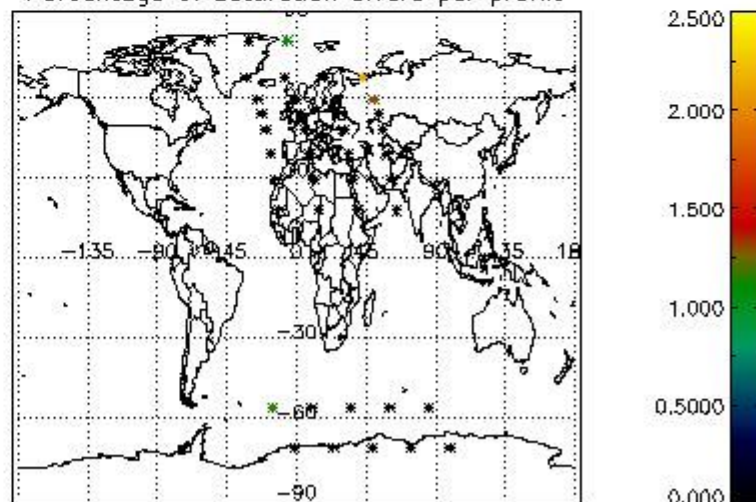
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



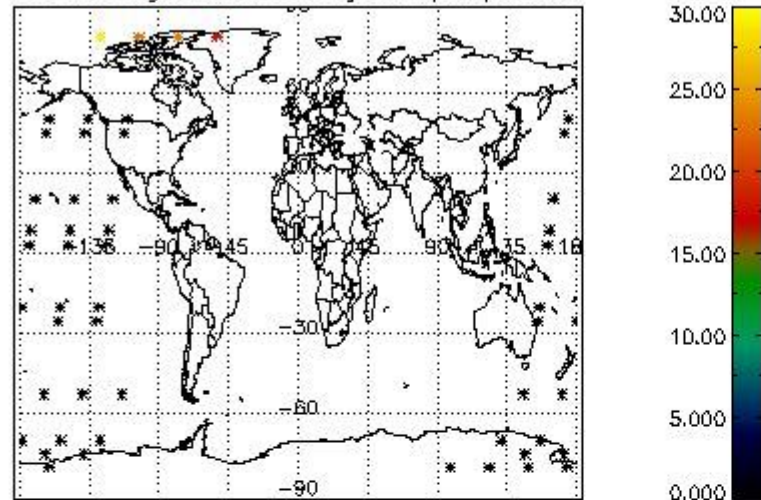
Percentage of saturation errors per profile



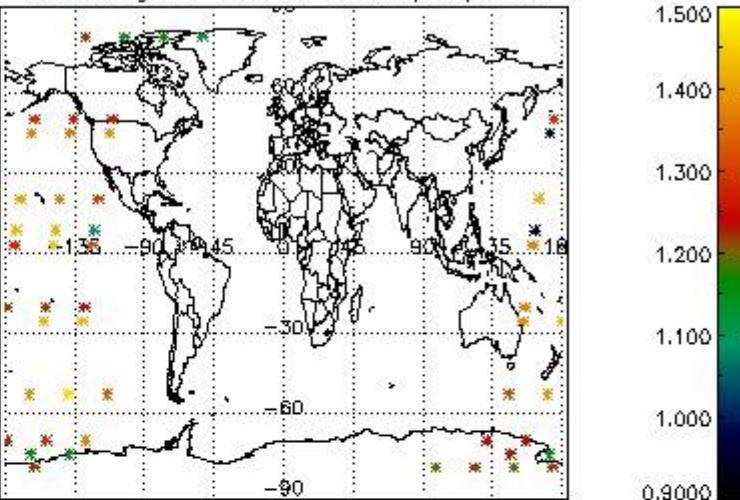
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



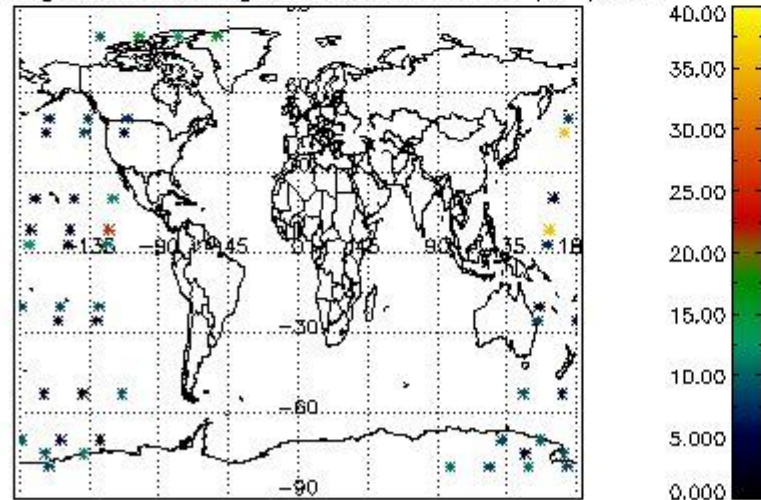
Percentage of cosmic ray hits per profile



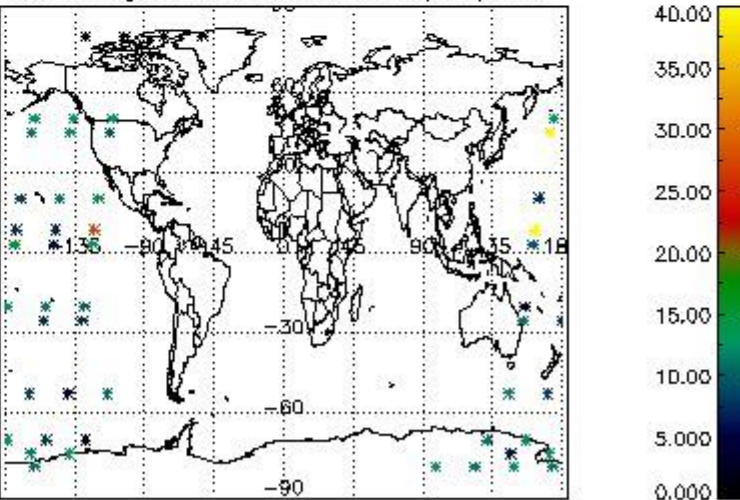
Percentage of datation errors per profile



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

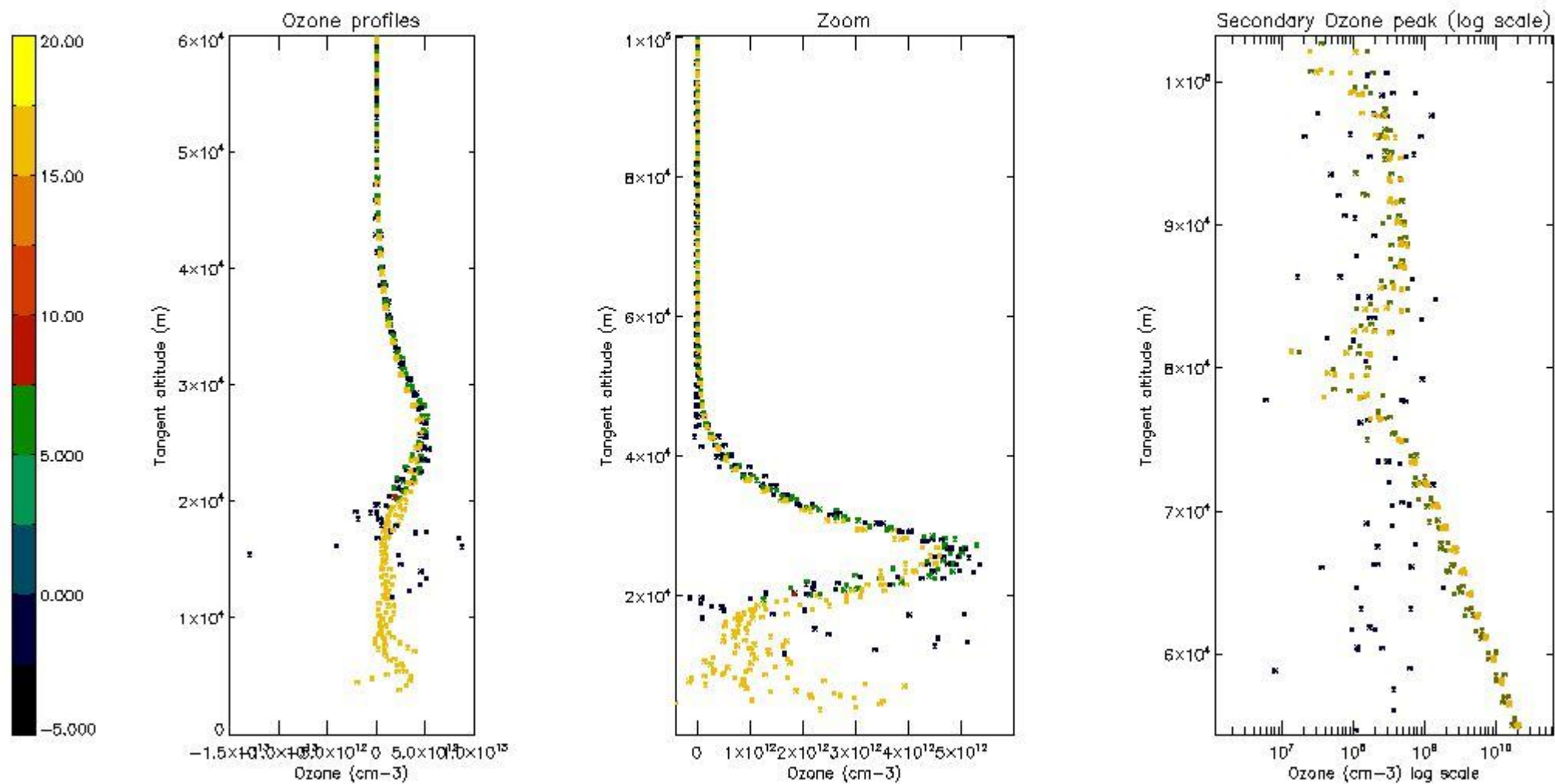
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	14
STD < 20	7

STD < 10	4
STD < 5	2

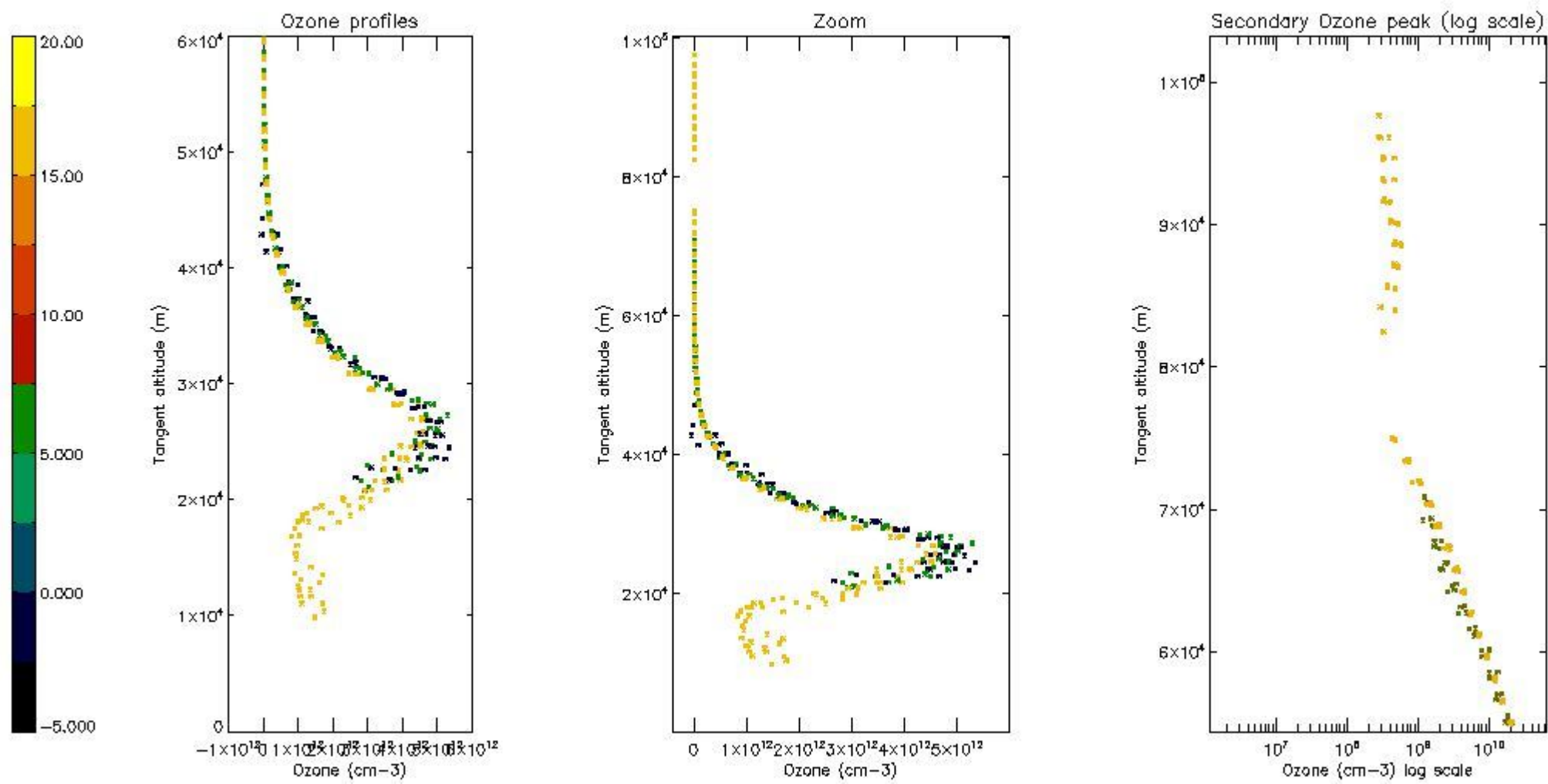
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



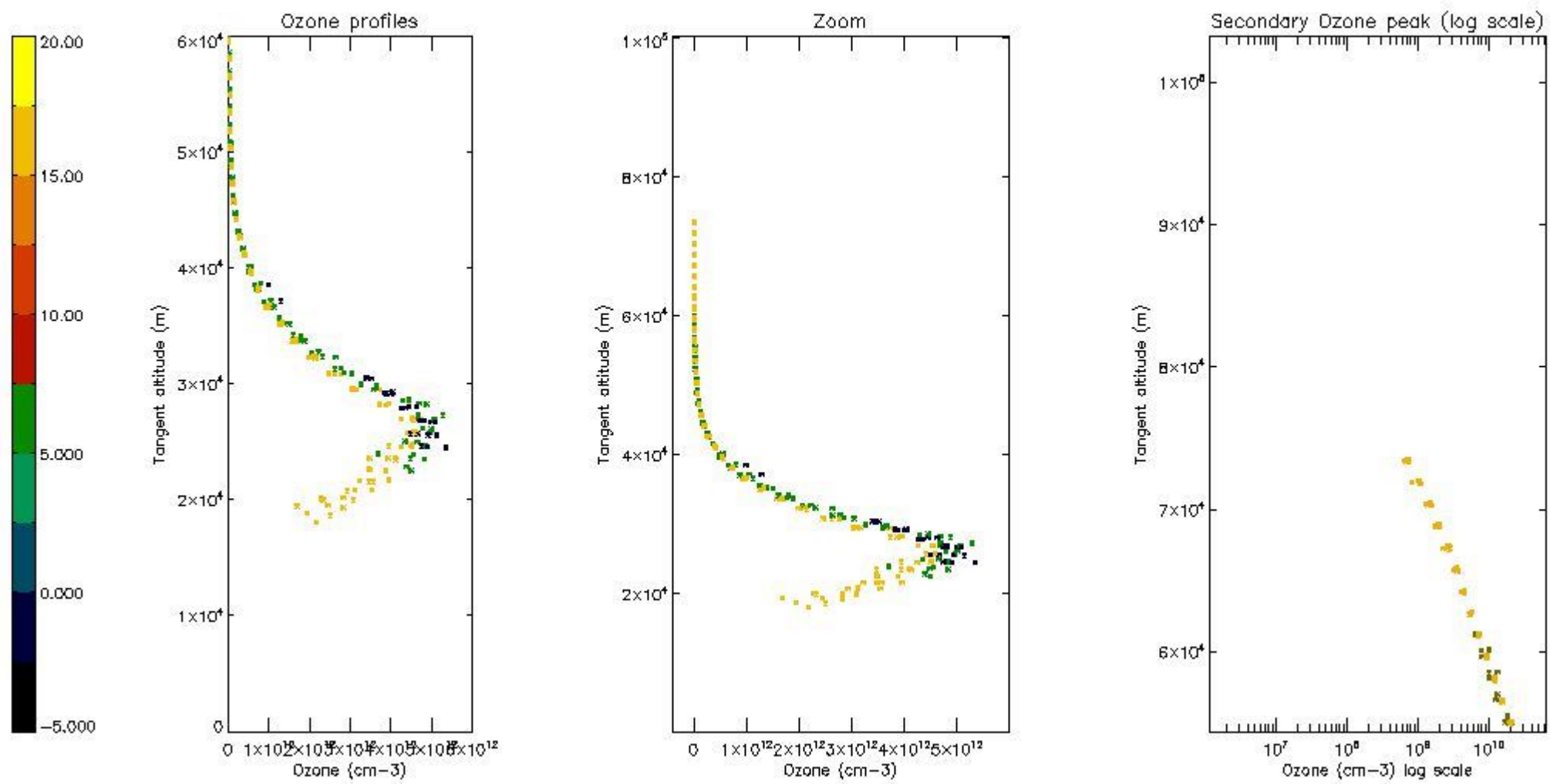
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



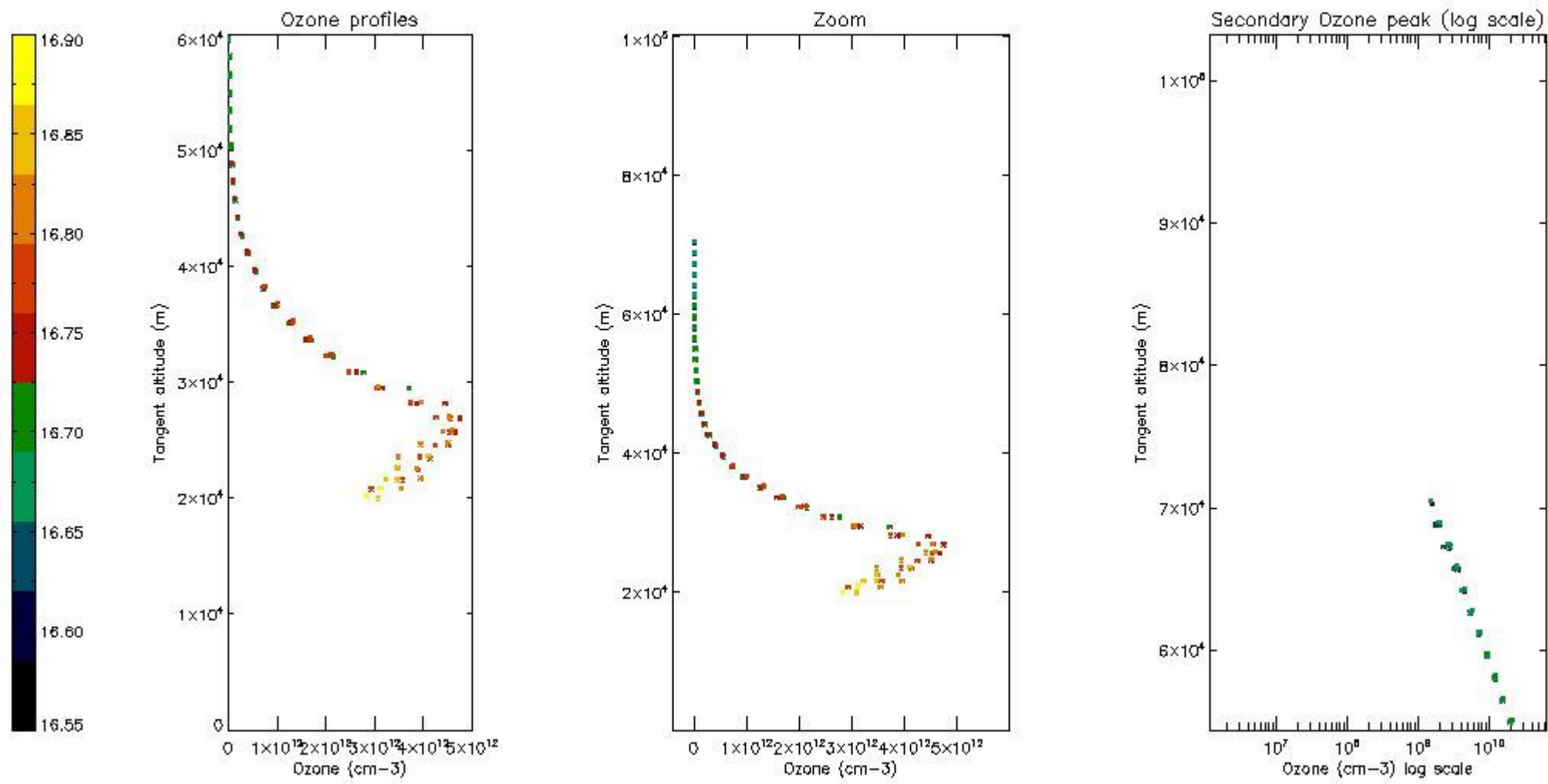
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



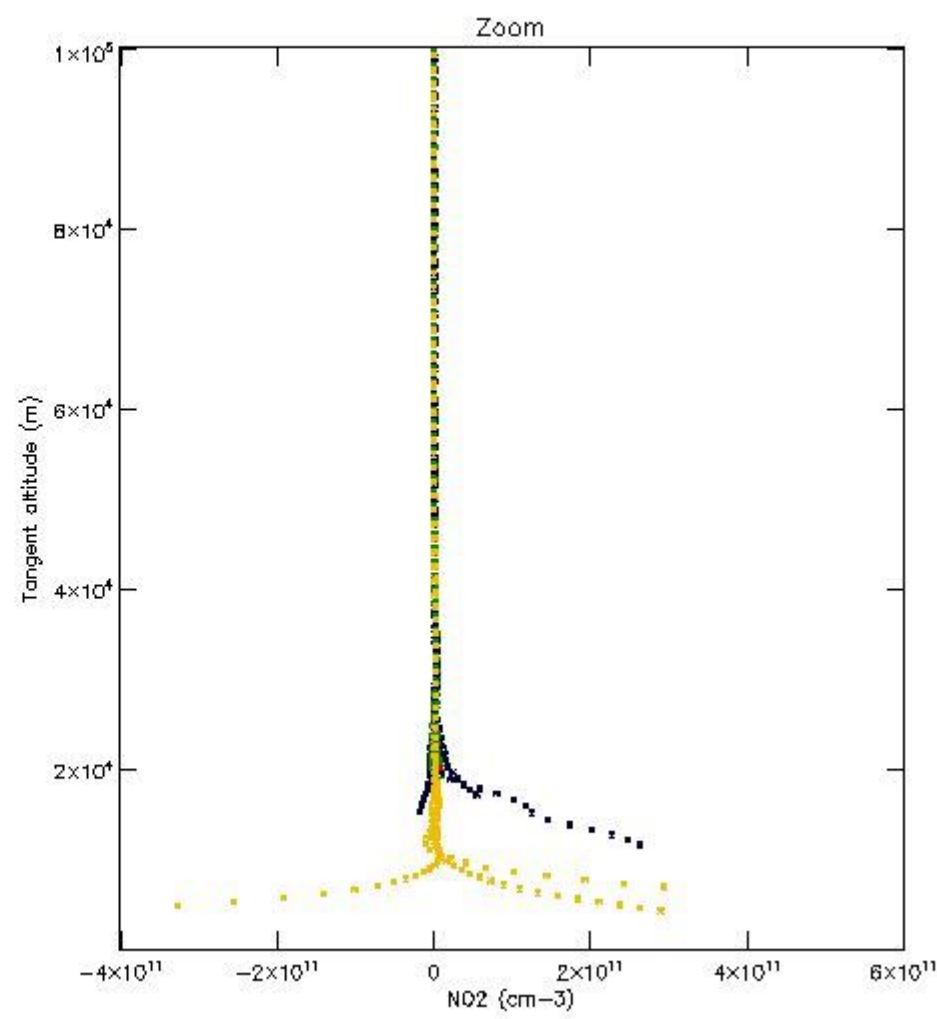
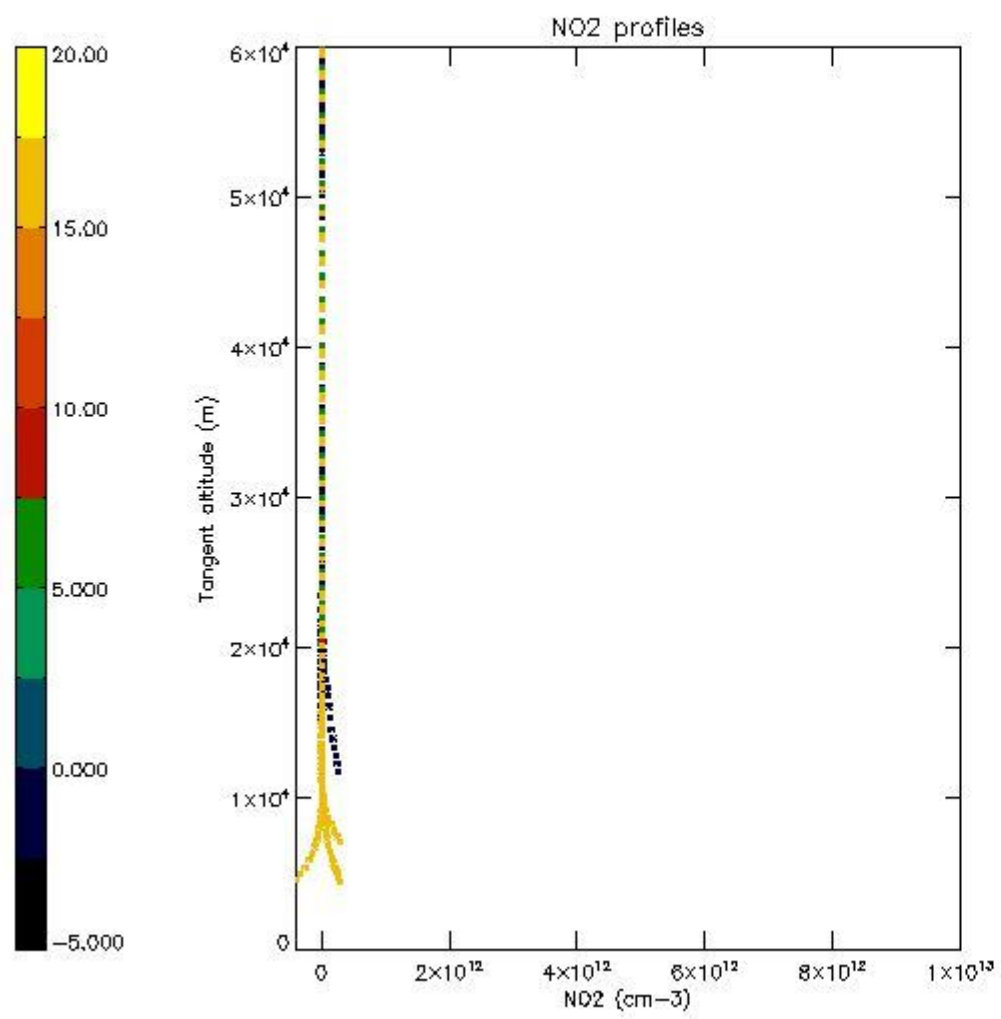
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



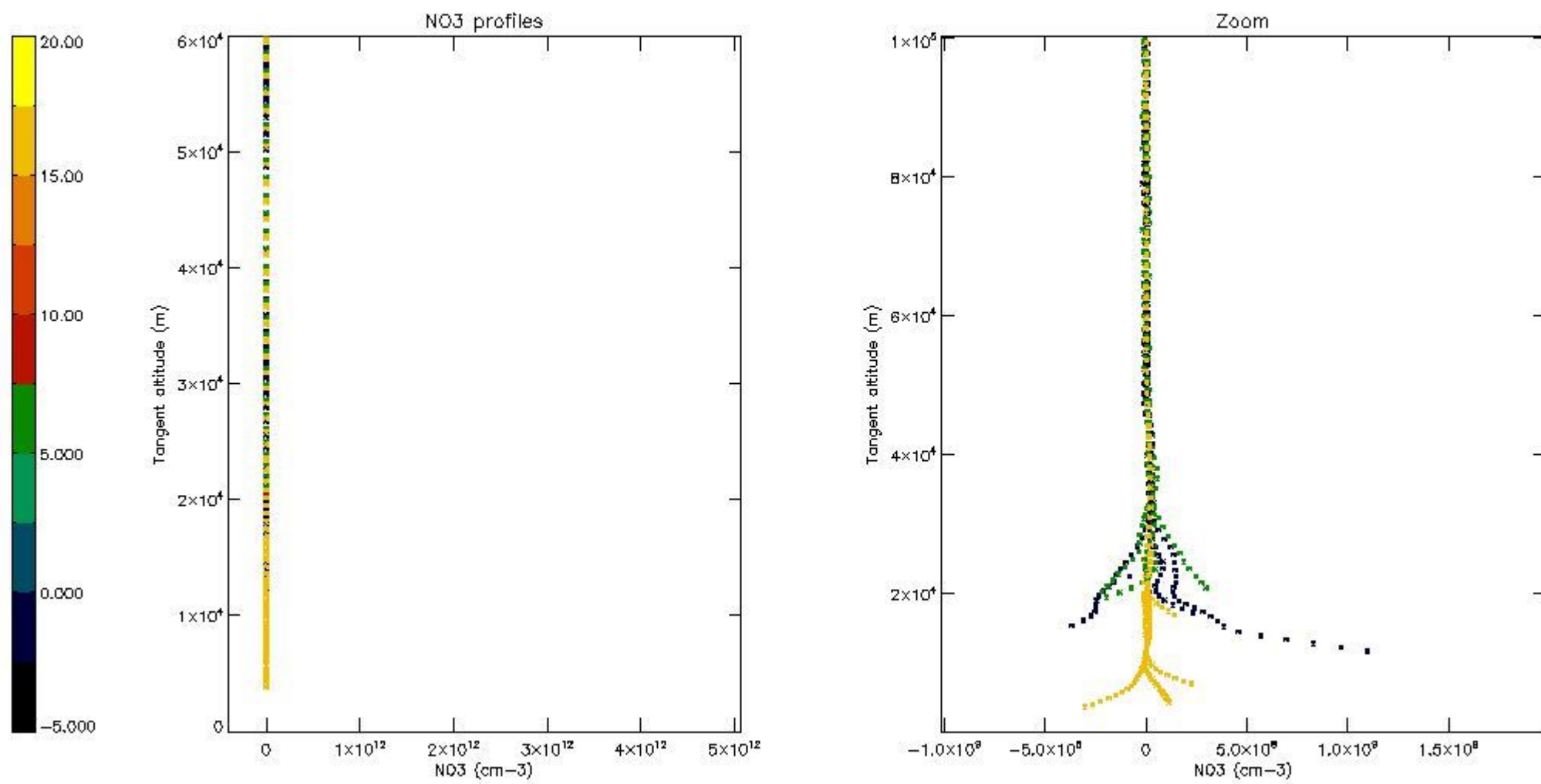
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



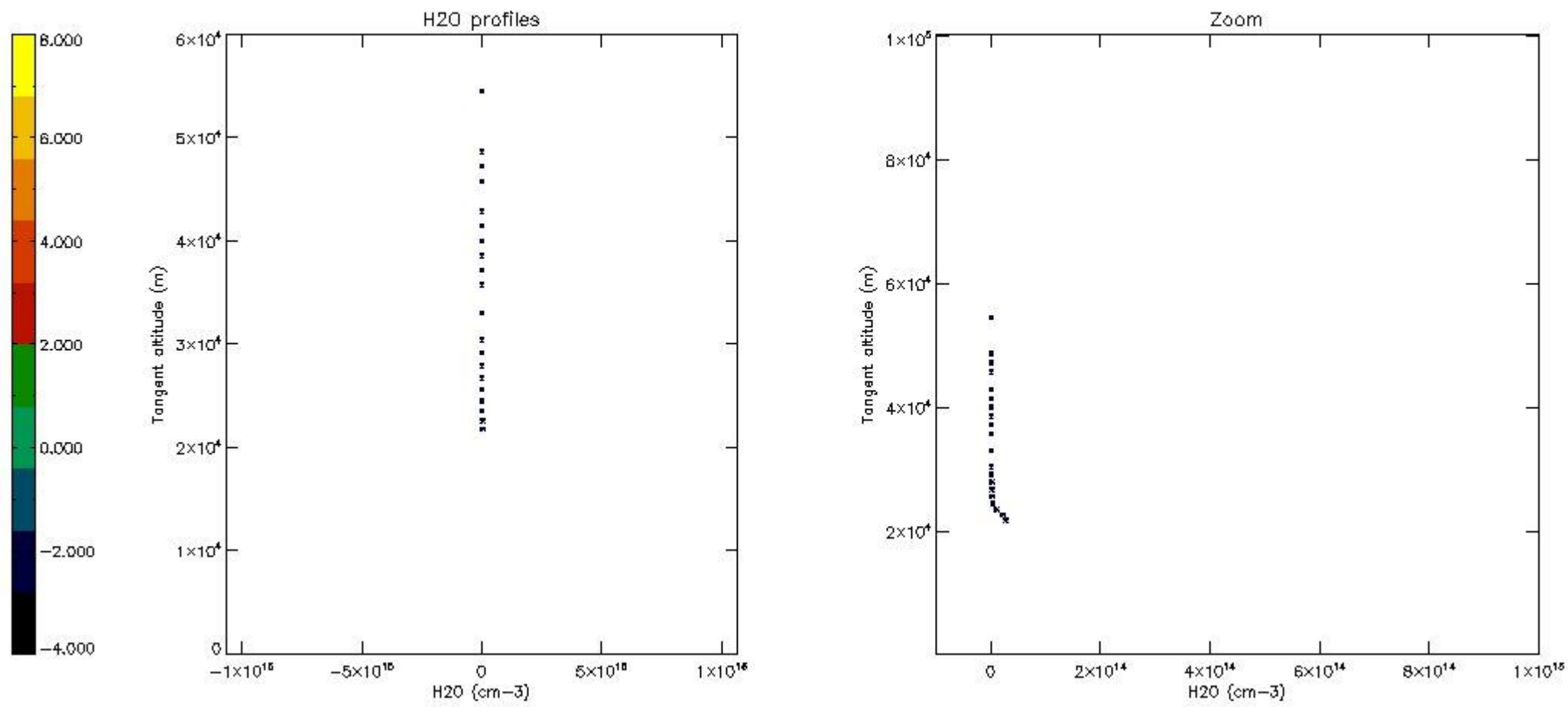
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	28-MAR-2006 16:50:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-MAR-2006 16:50:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-MAR-2006 16:50:52



# GOMOS Level 2 Daily Report

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### [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	23APR2013 16:36:31
Data source version	GOMOS/6.01
Start time of products	28-03-2006 (28MAR2006 00:00:00)
Stop time of products	29-03-2006 (29MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	93
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

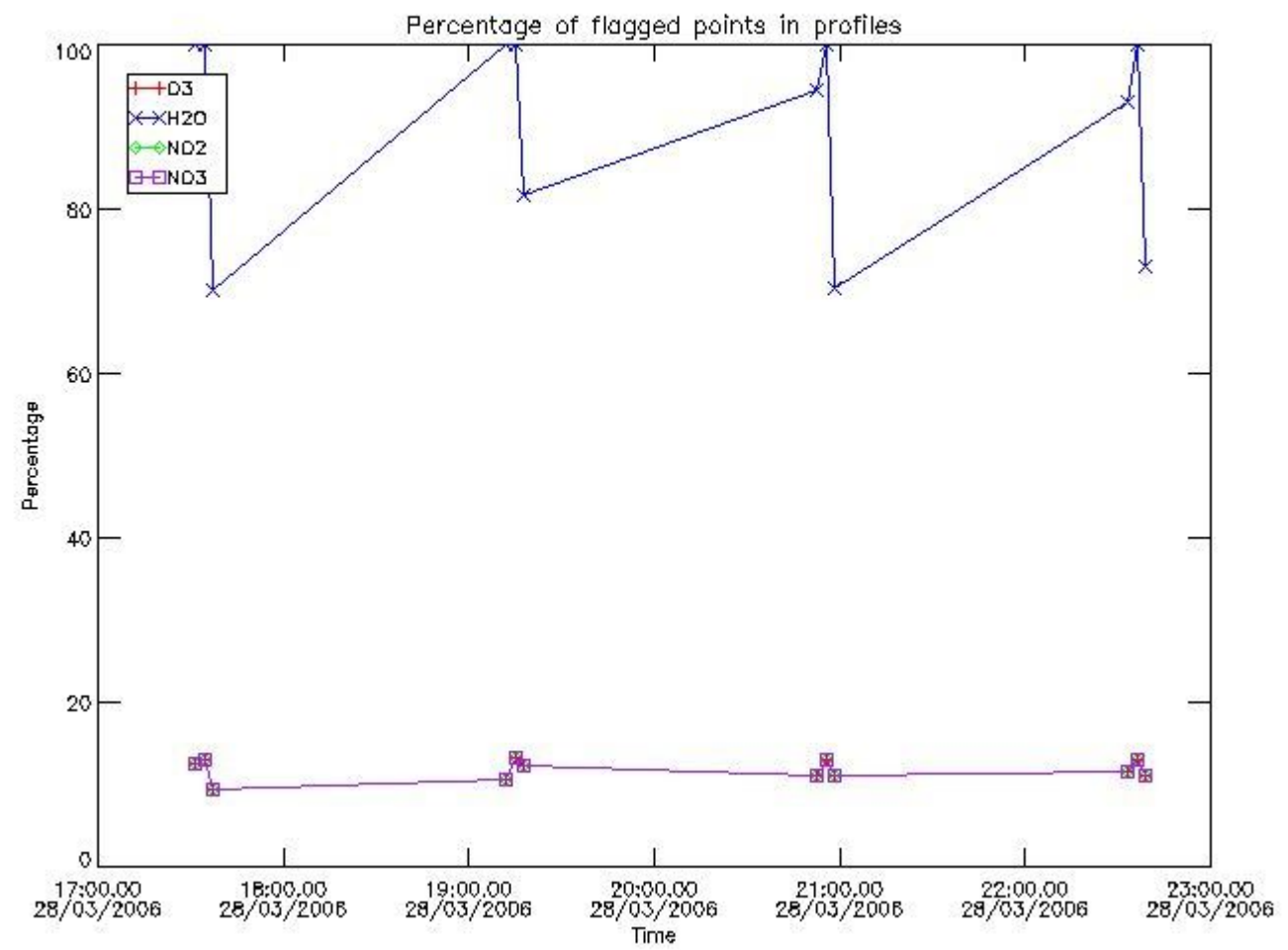
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060328_165052_000000382046_00212_21308_8640.N1	28-MAR-2006 16:50:52	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	21308	No
2	GOM_NL__2PRFIN20060328_165602_000000372046_00212_21308_8641.N1	28-MAR-2006 16:56:02	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	21308	No
3	GOM_NL__2PRFIN20060328_165740_000000442046_00212_21308_8642.N1	28-MAR-2006 16:57:40	Bright	43.500	66	37Gam Cyg	2.2080	5900.0	87	21308	No
4	GOM_NL__2PRFIN20060328_165936_000000412046_00212_21308_8643.N1	28-MAR-2006 16:59:36	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21308	No
5	GOM_NL__2PRFIN20060328_170602_000000392046_00212_21308_8644.N1	28-MAR-2006 17:06:02	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	21308	No
6	GOM_NL__2PRFIN20060328_171033_000000432046_00212_21308_8645.N1	28-MAR-2006 17:10:33	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	21308	No
7	GOM_NL__2PRFIN20060328_173121_000000412046_00213_21309_8640.N1	28-MAR-2006 17:31:21	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	21309	No
8	GOM_NL__2PRFIN20060328_173434_000000402046_00213_21309_8641.N1	28-MAR-2006 17:34:34	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21309	No
9	GOM_NL__2PRFIN20060328_173715_000000542046_00213_21309_8642.N1	28-MAR-2006 17:37:15	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	21309	No
10	GOM_NL__2PRFIN20060328_173951_000000452046_00213_21309_8643.N1	28-MAR-2006 17:39:51	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	21309	No
11	GOM_NL__2PRFIN20060328_174133_000000412046_00213_21309_8644.N1	28-MAR-2006 17:41:33	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	21309	No
12	GOM_NL__2PRFIN20060328_174302_000000392046_00213_21309_8645.N1	28-MAR-2006 17:43:02	Straylight	38.500	64	Gam Cen	2.2000	10600.	77	21309	No
13	GOM_NL__2PRFIN20060328_174533_000000462046_00213_21309_8646.N1	28-MAR-2006 17:45:33	Straylight	46.000	123	lot Cen	2.7500	10200.	92	21309	No
14	GOM_NL__2PRFIN20060328_175034_000000462046_00213_21309_8647.N1	28-MAR-2006 17:50:34	Straylight	46.000	106	9Bet Crv	2.6480	5600.0	92	21309	No
15	GOM_NL__2PRFIN20060328_175235_000000452046_00213_21309_8648.N1	28-MAR-2006 17:52:35	Tw_and_stray	45.000	100	4Gam Crv	2.5800	13100.	90	21309	No
16	GOM_NL__2PRFIN20060328_180231_000000402046_00213_21309_8649.N1	28-MAR-2006 18:02:31	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	21309	No
17	GOM_NL__2PRFIN20060328_180402_000000362046_00213_21309_8650.N1	28-MAR-2006 18:04:02	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	21309	No
18	GOM_NL__2PRFIN20060328_181055_000000392046_00213_21309_8651.N1	28-MAR-2006 18:10:55	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	21309	No
19	GOM_NL__2PRFIN20060328_181414_000000462046_00213_21309_8652.N1	28-MAR-2006 18:14:14	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	21309	No
20	GOM_NL__2PRFIN20060328_181546_000000382046_00213_21309_8653.N1	28-MAR-2006 18:15:46	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	21309	No
21	GOM_NL__2PRFIN20060328_182218_000000412046_00213_21309_8654.N1	28-MAR-2006 18:22:18	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	21309	No
22	GOM_NL__2PRFIN20060328_182343_000000352046_00213_21309_8655.N1	28-MAR-2006 18:23:43	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21309	No
23	GOM_NL__2PRFIN20060328_183128_000000342046_00213_21309_8656.N1	28-MAR-2006 18:31:28	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	21309	No
24	GOM_NL__2PRFIN20060328_183638_000000392046_00213_21309_8657.N1	28-MAR-2006 18:36:38	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	21309	No
25	GOM_NL__2PRFIN20060328_183816_000000432046_00213_21309_8658.N1	28-MAR-2006 18:38:16	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	21309	No
26	GOM_NL__2PRFIN20060328_184012_000000412046_00213_21309_8659.N1	28-MAR-2006 18:40:12	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21309	No
27	GOM_NL__2PRFIN20060328_184638_000000422046_00213_21309_8660.N1	28-MAR-2006 18:46:38	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	21309	No
28	GOM_NL__2PRFIN20060328_185109_000000442046_00213_21309_8661.N1	28-MAR-2006 18:51:09	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	21309	No
29	GOM_NL__2PRFIN20060328_191158_000000492046_00214_21310_8640.N1	28-MAR-2006 19:11:58	Dark	48.500	141	Bet Ara	2.8400	4600.0	97	21310	No
30	GOM_NL__2PRFIN20060328_191511_000000392046_00214_21310_8641.N1	28-MAR-2006 19:15:11	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21310	No
31	GOM_NL__2PRFIN20060328_191751_000000422046_00214_21310_8642.N1	28-MAR-2006 19:17:51	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	21310	No
32	GOM_NL__2PRFIN20060328_192028_000000462046_00214_21310_8643.N1	28-MAR-2006 19:20:28	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	21310	No
33	GOM_NL__2PRFIN20060328_192210_000000412046_00214_21310_8644.N1	28-MAR-2006 19:22:10	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	21310	No
34	GOM_NL__2PRFIN20060328_192339_000000422046_00214_21310_8645.N1	28-MAR-2006 19:23:39	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	21310	No
35	GOM_NL__2PRFIN20060328_192609_000000482046_00214_21310_8646.N1	28-MAR-2006 19:26:09	Straylight	48.000	123	lot Cen	2.7500	10200.	96	21310	No
36	GOM_NL__2PRFIN20060328_193110_000000482046_00214_21310_8647.N1	28-MAR-2006 19:31:10	Straylight	47.500	106	9Bet Crv	2.6480	5600.0	95	21310	No
37	GOM_NL__2PRFIN20060328_193311_000000432046_00214_21310_8648.N1	28-MAR-2006 19:33:11	Tw_and_stray	43.000	100	4Gam Crv	2.5800	13100.	86	21310	No
38	GOM_NL__2PRFIN20060328_194307_000000402046_00214_21310_8649.N1	28-MAR-2006 19:43:07	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	21310	No
39	GOM_NL__2PRFIN20060328_194438_000000372046_00214_21310_8650.N1	28-MAR-2006 19:44:38	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	21310	No
40	GOM_NL__2PRFIN20060328_195131_000000372046_00214_21310_8651.N1	28-MAR-2006 19:51:31	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	21310	No
41	GOM_NL__2PRFIN20060328_195450_000000352046_00214_21310_8652.N1	28-MAR-2006 19:54:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	21310	No
42	GOM_NL__2PRFIN20060328_195621_000000352046_00214_21310_8653.N1	28-MAR-2006 19:56:21	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	21310	No

43	GOM_NL__2PRFIN20060328_200253_000000412046_00214_21310_8654.N1	28-MAR-2006 20:02:53	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	21310	No
44	GOM_NL__2PRFIN20060328_200419_000000352046_00214_21310_8655.N1	28-MAR-2006 20:04:19	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21310	No
45	GOM_NL__2PRFIN20060328_201204_000000362046_00214_21310_8656.N1	28-MAR-2006 20:12:04	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	21310	No
46	GOM_NL__2PRFIN20060328_201714_000000412046_00214_21310_8657.N1	28-MAR-2006 20:17:14	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	21310	No
47	GOM_NL__2PRFIN20060328_201852_000000432046_00214_21310_8658.N1	28-MAR-2006 20:18:52	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	21310	No
48	GOM_NL__2PRFIN20060328_202048_000000422046_00214_21310_8659.N1	28-MAR-2006 20:20:48	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	21310	No
49	GOM_NL__2PRFIN20060328_202714_000000432046_00214_21310_8660.N1	28-MAR-2006 20:27:14	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	21310	No
50	GOM_NL__2PRFIN20060328_203145_000000442046_00214_21310_8661.N1	28-MAR-2006 20:31:45	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	21310	No
51	GOM_NL__2PRFIN20060328_205234_000000462046_00215_21311_8640.N1	28-MAR-2006 20:52:34	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	21311	No
52	GOM_NL__2PRFIN20060328_205547_000000392046_00215_21311_8641.N1	28-MAR-2006 20:55:47	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21311	No
53	GOM_NL__2PRFIN20060328_205828_000000552046_00215_21311_8642.N1	28-MAR-2006 20:58:28	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	21311	No
54	GOM_NL__2PRFIN20060328_210104_000000442046_00215_21311_8643.N1	28-MAR-2006 21:01:04	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	21311	No
55	GOM_NL__2PRFIN20060328_210246_000000442046_00215_21311_8644.N1	28-MAR-2006 21:02:46	Straylight	43.500	95	Zet Cen	2.5450	26000.	87	21311	No
56	GOM_NL__2PRFIN20060328_210415_000000402046_00215_21311_8645.N1	28-MAR-2006 21:04:15	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	21311	No
57	GOM_NL__2PRFIN20060328_210645_000000452046_00215_21311_8646.N1	28-MAR-2006 21:06:45	Straylight	45.000	123	lot Cen	2.7500	10200.	90	21311	No
58	GOM_NL__2PRFIN20060328_211146_000000462046_00215_21311_8647.N1	28-MAR-2006 21:11:46	Straylight	45.500	106	9Bet Crv	2.6480	5600.0	91	21311	No
59	GOM_NL__2PRFIN20060328_211347_000000442046_00215_21311_8648.N1	28-MAR-2006 21:13:47	Twi_and_stray	44.000	100	4Gam Crv	2.5800	13100.	88	21311	No
60	GOM_NL__2PRFIN20060328_212343_000000392046_00215_21311_8649.N1	28-MAR-2006 21:23:43	Bright	39.000	62	94Bet Leo	2.1360	9700.0	78	21311	No
61	GOM_NL__2PRFIN20060328_212514_000000372046_00215_21311_8650.N1	28-MAR-2006 21:25:14	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	21311	No
62	GOM_NL__2PRFIN20060328_213206_000000362046_00215_21311_8651.N1	28-MAR-2006 21:32:06	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21311	No
63	GOM_NL__2PRFIN20060328_213526_000000352046_00215_21311_8652.N1	28-MAR-2006 21:35:26	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	21311	No
64	GOM_NL__2PRFIN20060328_213657_000000392046_00215_21311_8653.N1	28-MAR-2006 21:36:57	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	21311	No
65	GOM_NL__2PRFIN20060328_214329_000000412046_00215_21311_8654.N1	28-MAR-2006 21:43:29	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	21311	No
66	GOM_NL__2PRFIN20060328_214455_000000352046_00215_21311_8655.N1	28-MAR-2006 21:44:55	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21311	No
67	GOM_NL__2PRFIN20060328_215240_000000362046_00215_21311_8656.N1	28-MAR-2006 21:52:40	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	21311	No
68	GOM_NL__2PRFIN20060328_215750_000000412046_00215_21311_8657.N1	28-MAR-2006 21:57:50	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21311	No
69	GOM_NL__2PRFIN20060328_215928_000000412046_00215_21311_8658.N1	28-MAR-2006 21:59:28	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	21311	No
70	GOM_NL__2PRFIN20060328_220124_000000412046_00215_21311_8659.N1	28-MAR-2006 22:01:24	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	21311	No
71	GOM_NL__2PRFIN20060328_220750_000000432046_00215_21311_8660.N1	28-MAR-2006 22:07:50	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	21311	No
72	GOM_NL__2PRFIN20060328_221222_000000432046_00215_21311_8661.N1	28-MAR-2006 22:12:22	Twilight	42.500	154	22Bet Aqr	2.8990	5700.0	85	21311	No
73	GOM_NL__2PRFIN20060328_223311_000000442046_00216_21312_8640.N1	28-MAR-2006 22:33:11	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	21312	No
74	GOM_NL__2PRFIN20060328_223623_000000392046_00216_21312_8641.N1	28-MAR-2006 22:36:23	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21312	No
75	GOM_NL__2PRFIN20060328_223904_000000512046_00216_21312_8642.N1	28-MAR-2006 22:39:04	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	21312	No
76	GOM_NL__2PRFIN20060328_224141_000000472046_00216_21312_8643.N1	28-MAR-2006 22:41:41	Straylight	46.500	78	Alp Lup	2.3040	28000.	93	21312	No
77	GOM_NL__2PRFIN20060328_224322_000000432046_00216_21312_8644.N1	28-MAR-2006 22:43:22	Straylight	43.000	95	Zet Cen	2.5450	26000.	86	21312	No
78	GOM_NL__2PRFIN20060328_224451_000000412046_00216_21312_8645.N1	28-MAR-2006 22:44:51	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	21312	No
79	GOM_NL__2PRFIN20060328_224721_000000482046_00216_21312_8646.N1	28-MAR-2006 22:47:21	Straylight	48.000	123	lot Cen	2.7500	10200.	96	21312	No
80	GOM_NL__2PRFIN20060328_225222_000000482046_00216_21312_8647.N1	28-MAR-2006 22:52:22	Straylight	47.500	106	9Bet Crv	2.6480	5600.0	95	21312	No
81	GOM_NL__2PRFIN20060328_225423_000000412046_00216_21312_8648.N1	28-MAR-2006 22:54:23	Twi_and_stray	41.000	100	4Gam Crv	2.5800	13100.	82	21312	No
82	GOM_NL__2PRFIN20060328_230418_000000392046_00216_21312_8649.N1	28-MAR-2006 23:04:18	Bright	39.000	62	94Bet Leo	2.1360	9700.0	78	21312	No
83	GOM_NL__2PRFIN20060328_230550_000000532046_00216_21312_8650.N1	28-MAR-2006 23:05:50	Bright	53.000	96	68Del Leo	2.5600	9300.0	106	21312	No
84	GOM_NL__2PRFIN20060328_231242_000000352046_00216_21312_8651.N1	28-MAR-2006 23:12:42	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	21312	No
85	GOM_NL__2PRFIN20060328_231601_000000532046_00216_21312_8652.N1	28-MAR-2006 23:16:01	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	21312	No
86	GOM_NL__2PRFIN20060328_231733_000000372046_00216_21312_8653.N1	28-MAR-2006 23:17:33	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	21312	No
87	GOM_NL__2PRFIN20060328_232404_000000372046_00216_21312_8654.N1	28-MAR-2006 23:24:04	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	21312	No
88	GOM_NL__2PRFIN20060328_232530_000000362046_00216_21312_8655.N1	28-MAR-2006 23:25:30	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	21312	No
89	GOM_NL__2PRFIN20060328_233315_000000382046_00216_21312_8656.N1	28-MAR-2006 23:33:15	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	21312	No
90	GOM_NL__2PRFIN20060328_233826_000000412046_00216_21312_8657.N1	28-MAR-2006 23:38:26	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21312	No
91	GOM_NL__2PRFIN20060328_234200_000000422046_00216_21312_8658.N1	28-MAR-2006 23:42:00	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	21312	No
92	GOM_NL__2PRFIN20060328_234826_000000432046_00216_21312_8659.N1	28-MAR-2006 23:48:26	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	21312	No
93	GOM_NL__2PRFIN20060328_235258_000000432046_00216_21312_8660.N1	28-MAR-2006 23:52:58	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	21312	No

### 3. Quality information per product

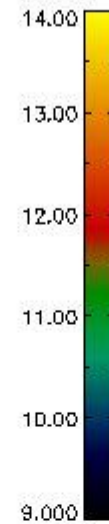
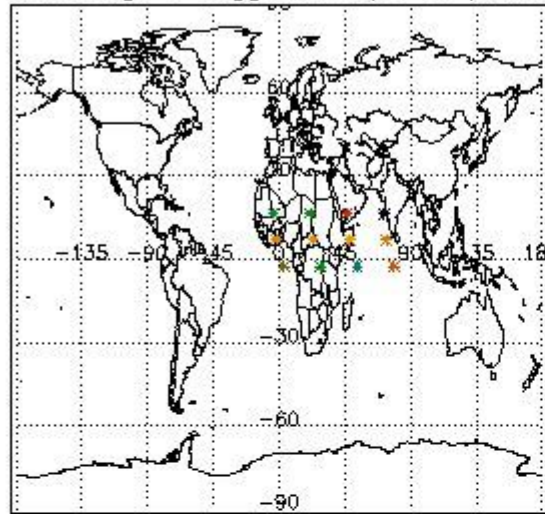
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

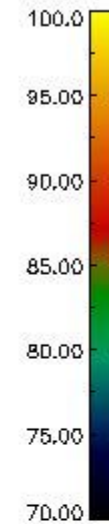
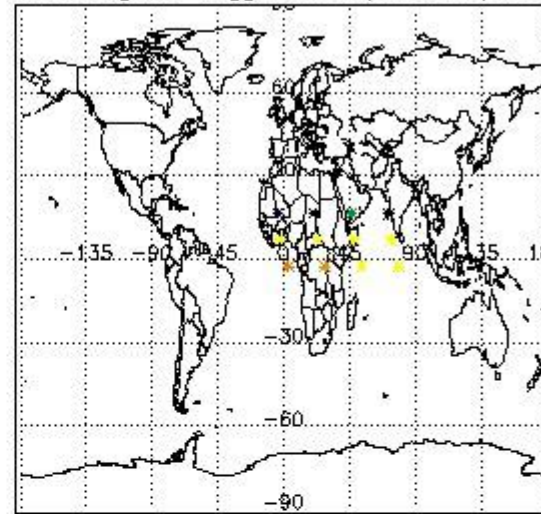


3.2 Plot quality information per product (world map)

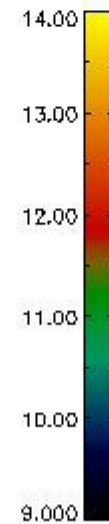
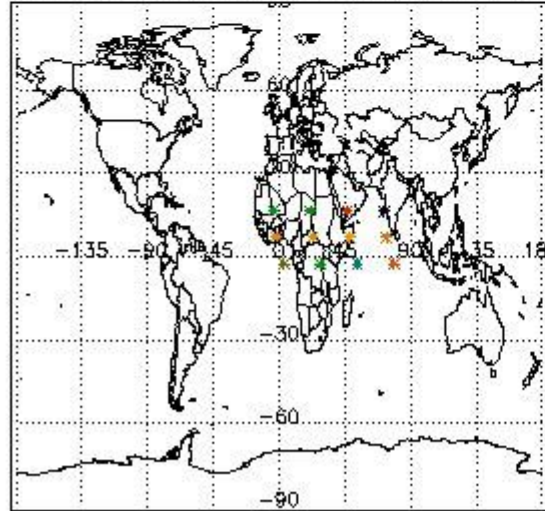
Percentage of flagged data per O3 profile



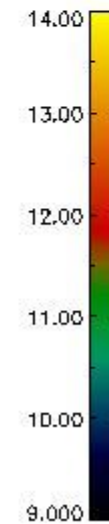
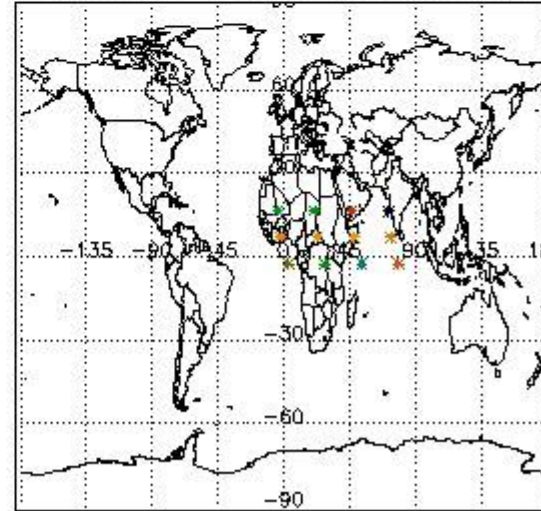
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

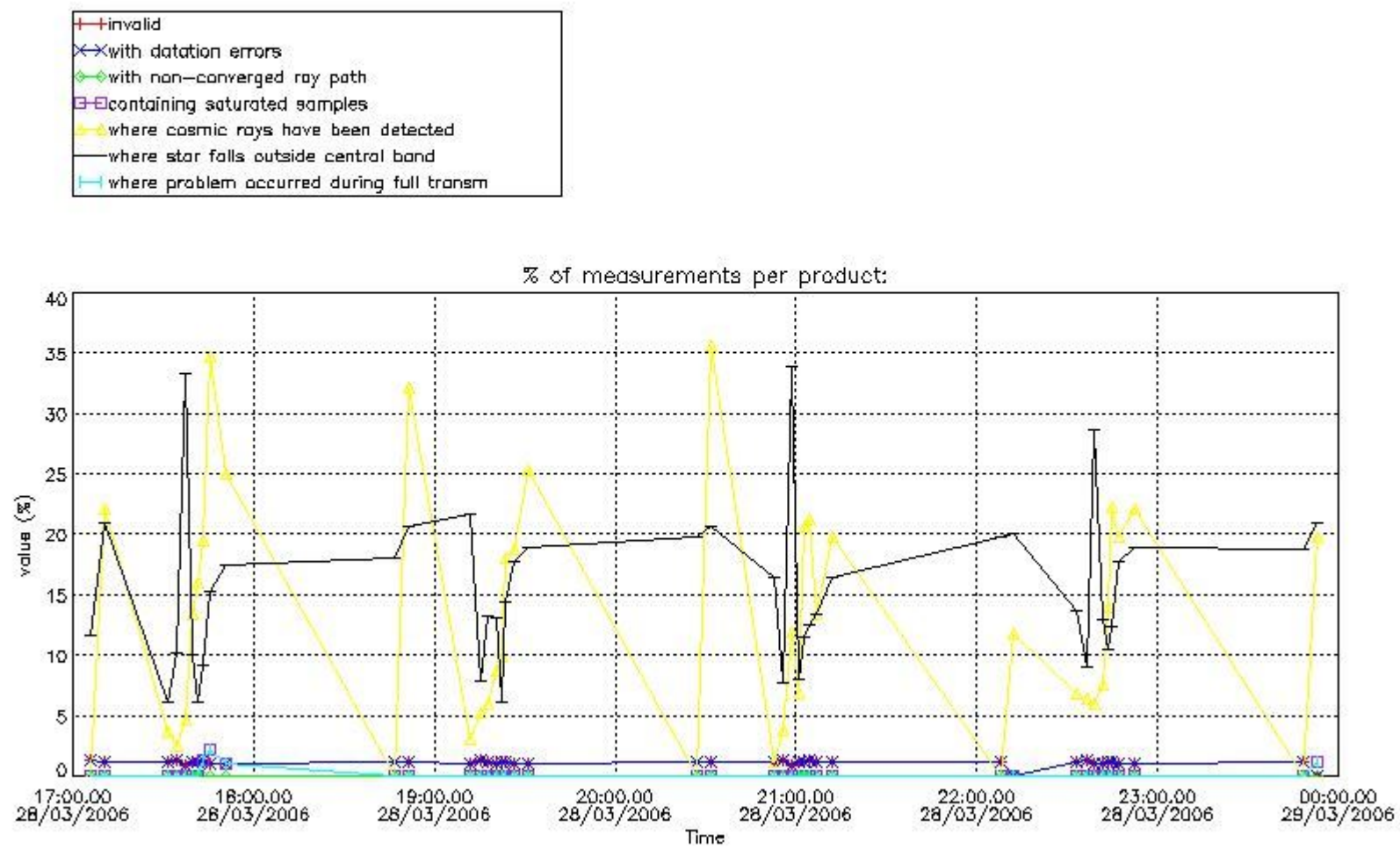


#### 4. Level 1 quality information per product

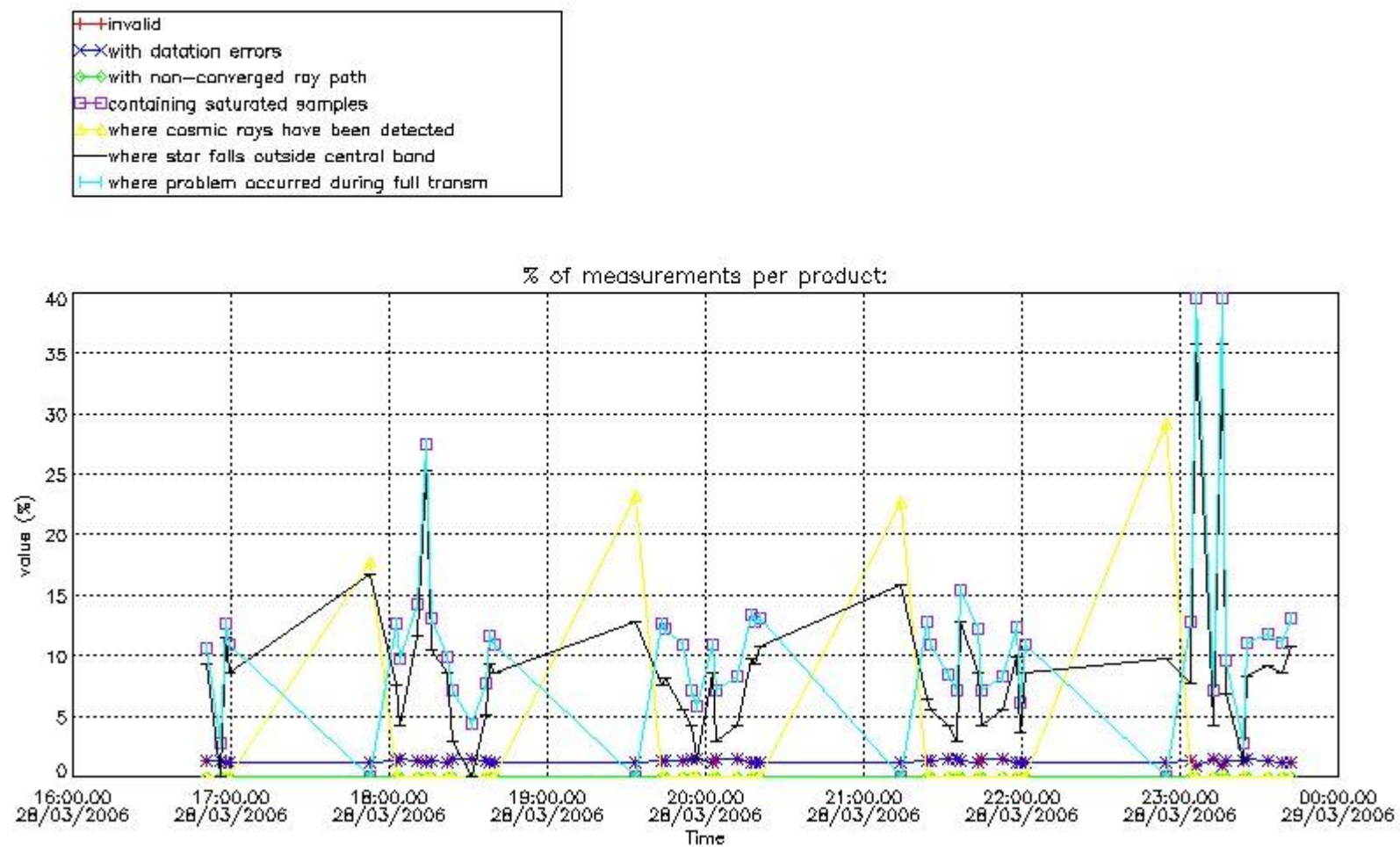
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



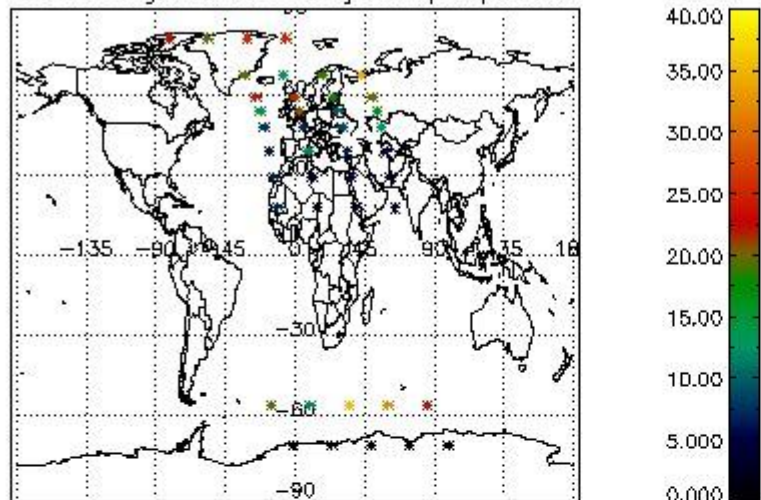
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



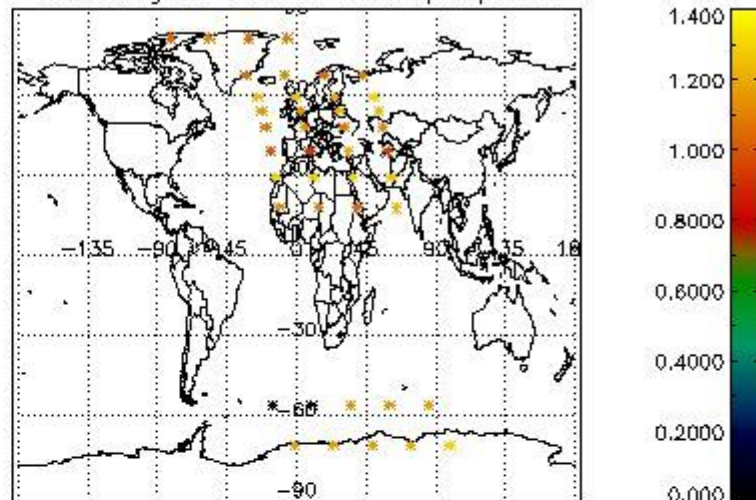
4.2 Plot quality information per product coming from level 1b processing (world map)

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

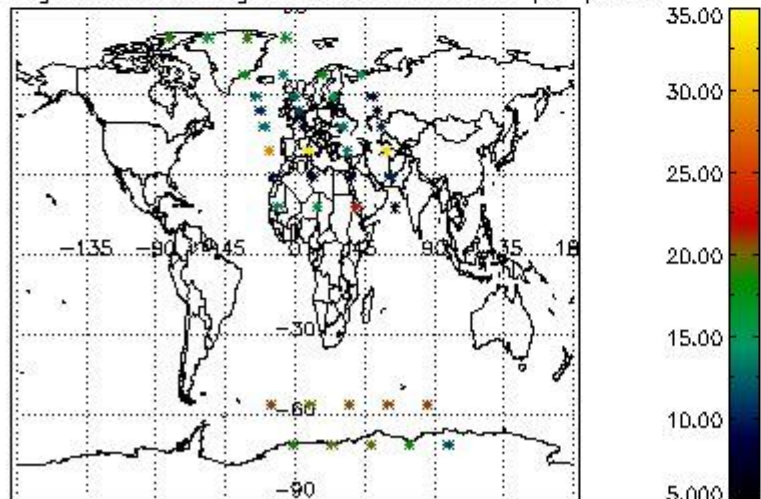
Percentage of cosmic ray hits per profile



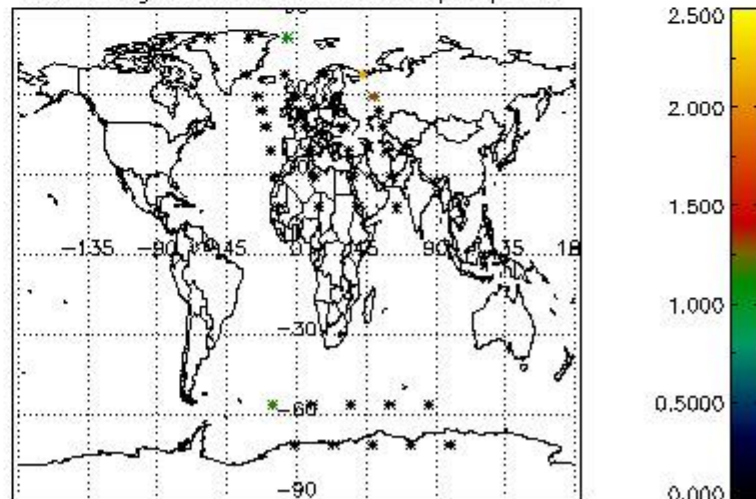
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



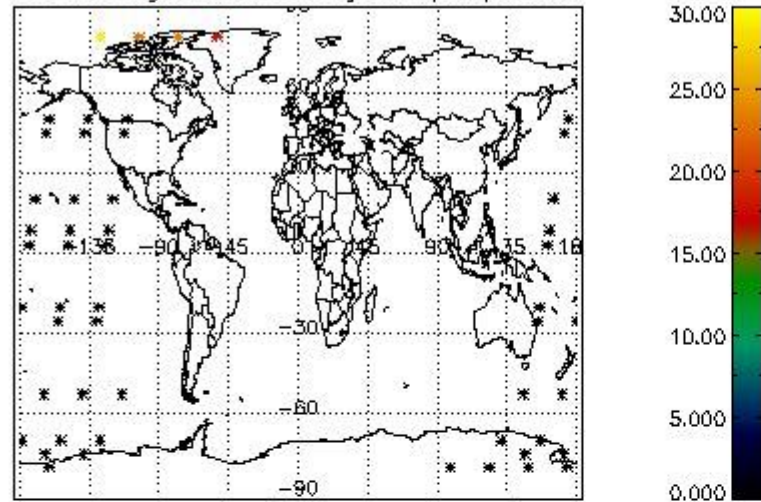
Percentage of saturation errors per profile



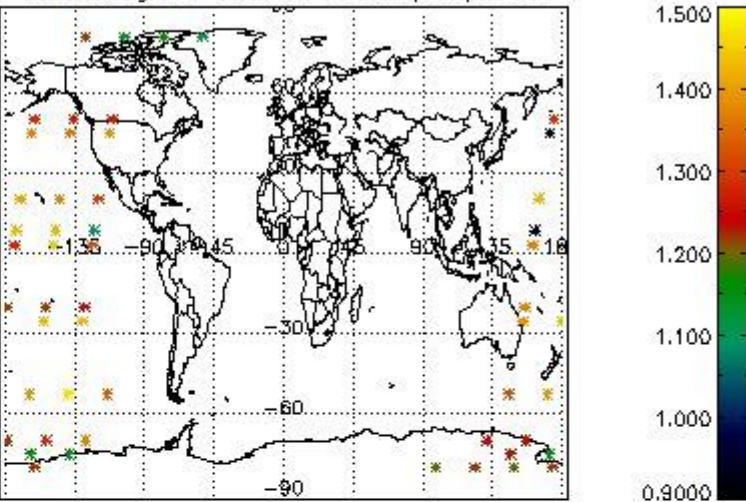
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



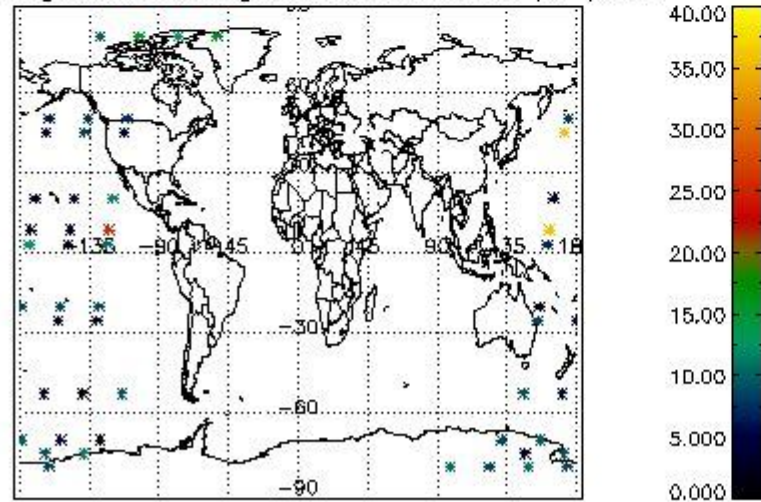
Percentage of cosmic ray hits per profile



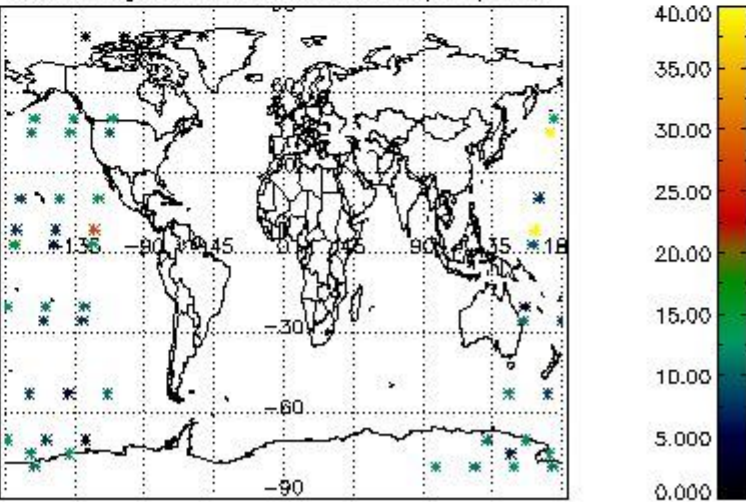
Percentage of datation errors per profile



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

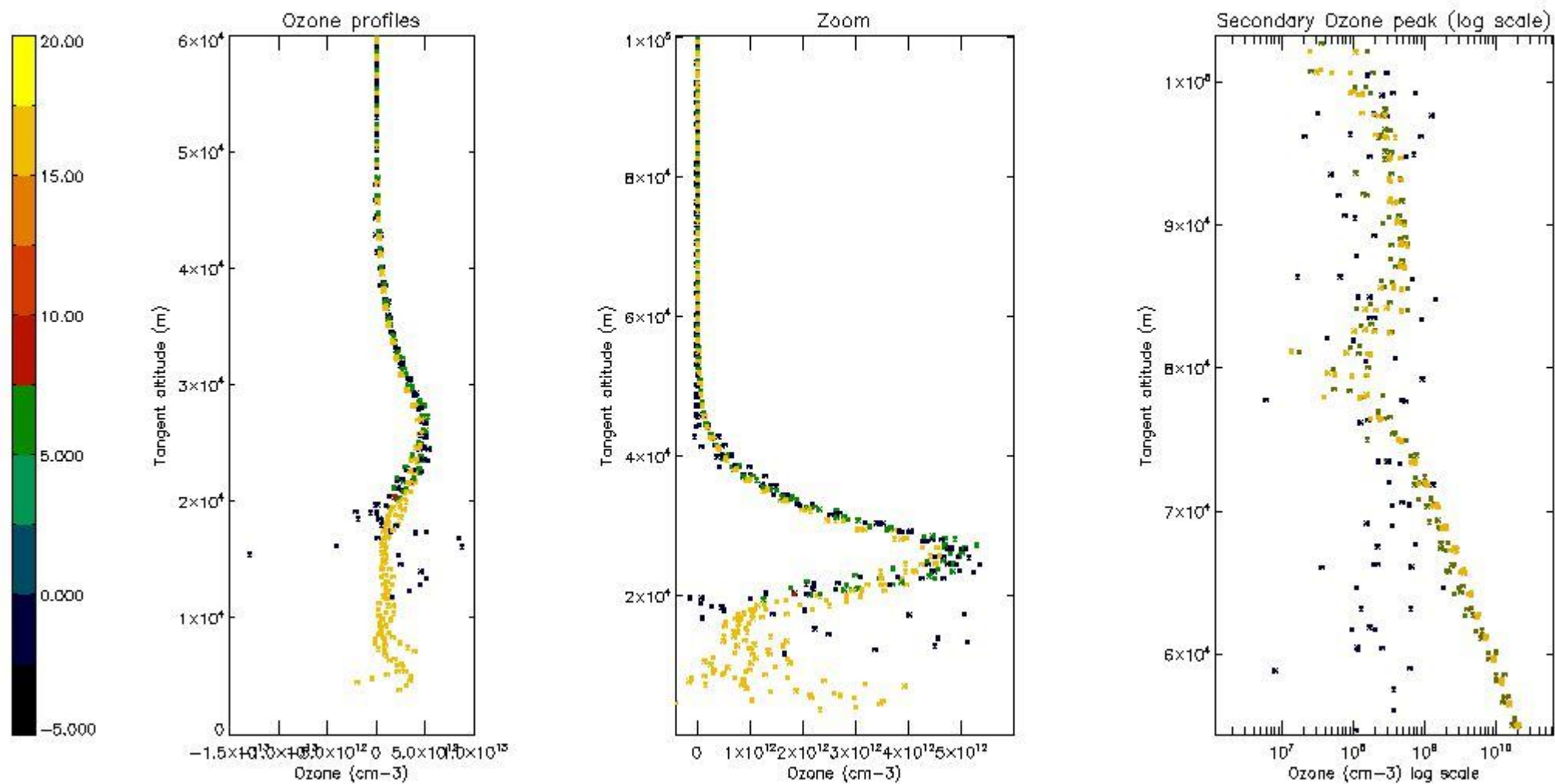
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	14
STD < 20	7

STD < 10	4
STD < 5	2

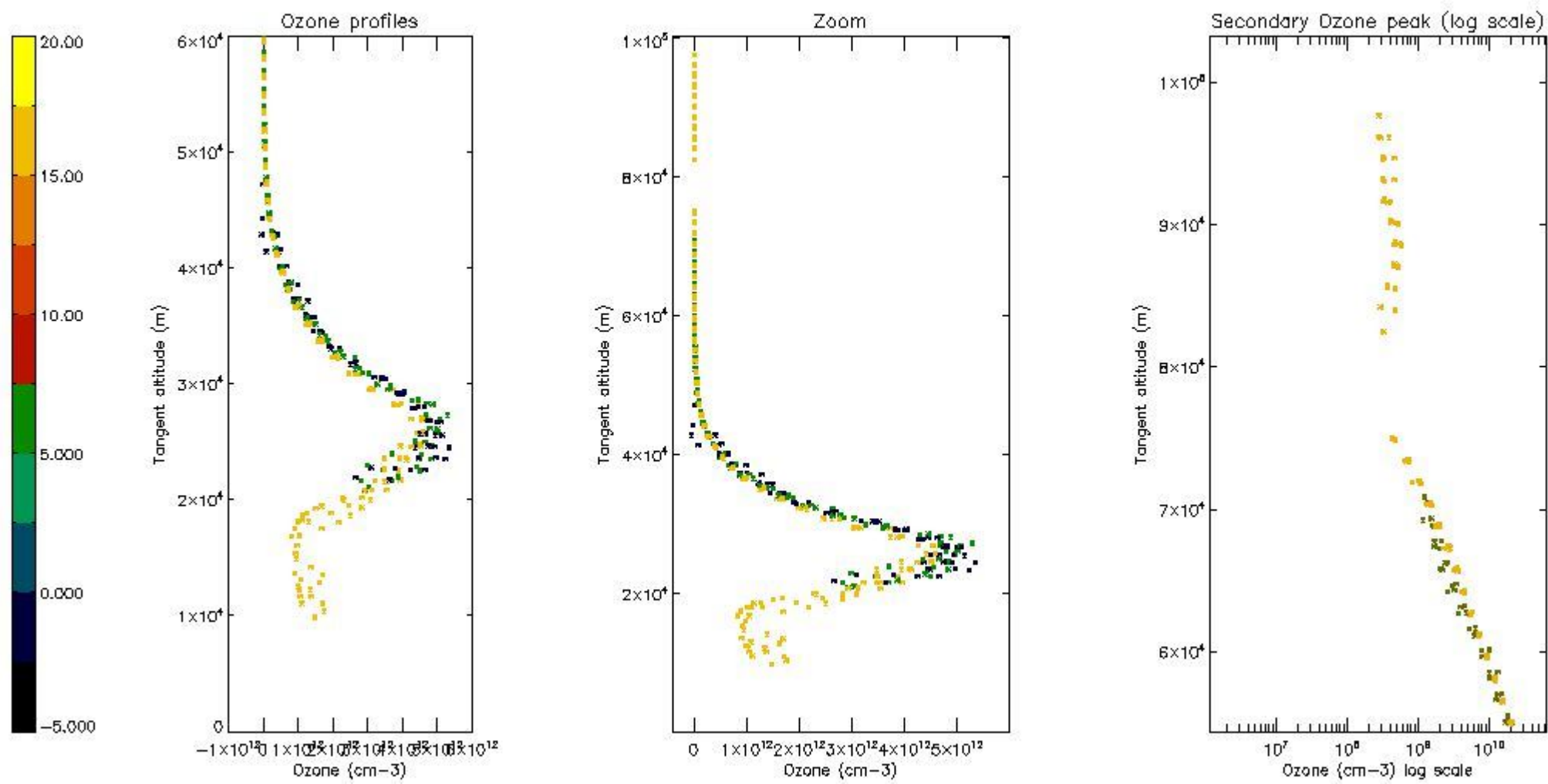
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



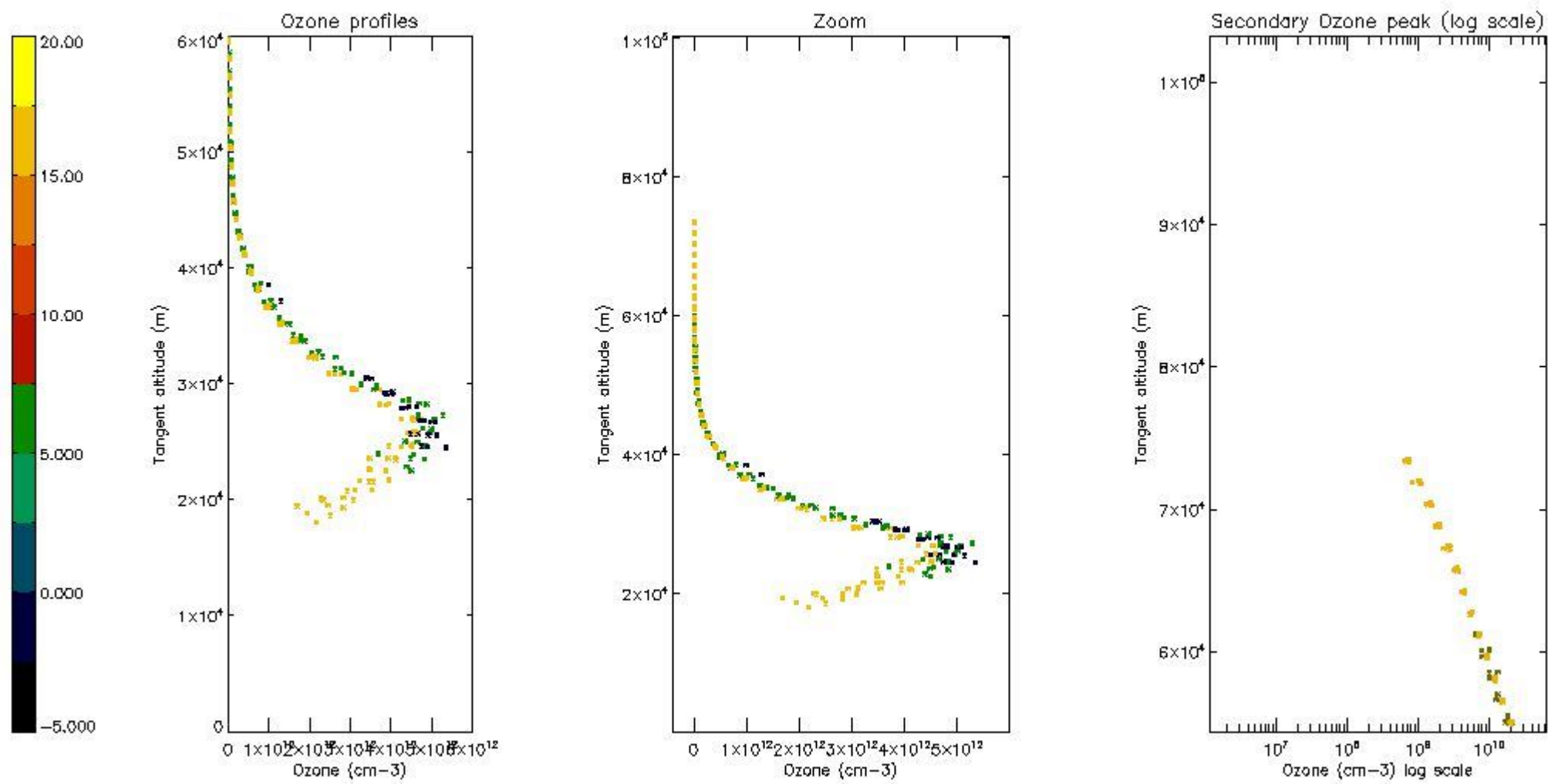
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



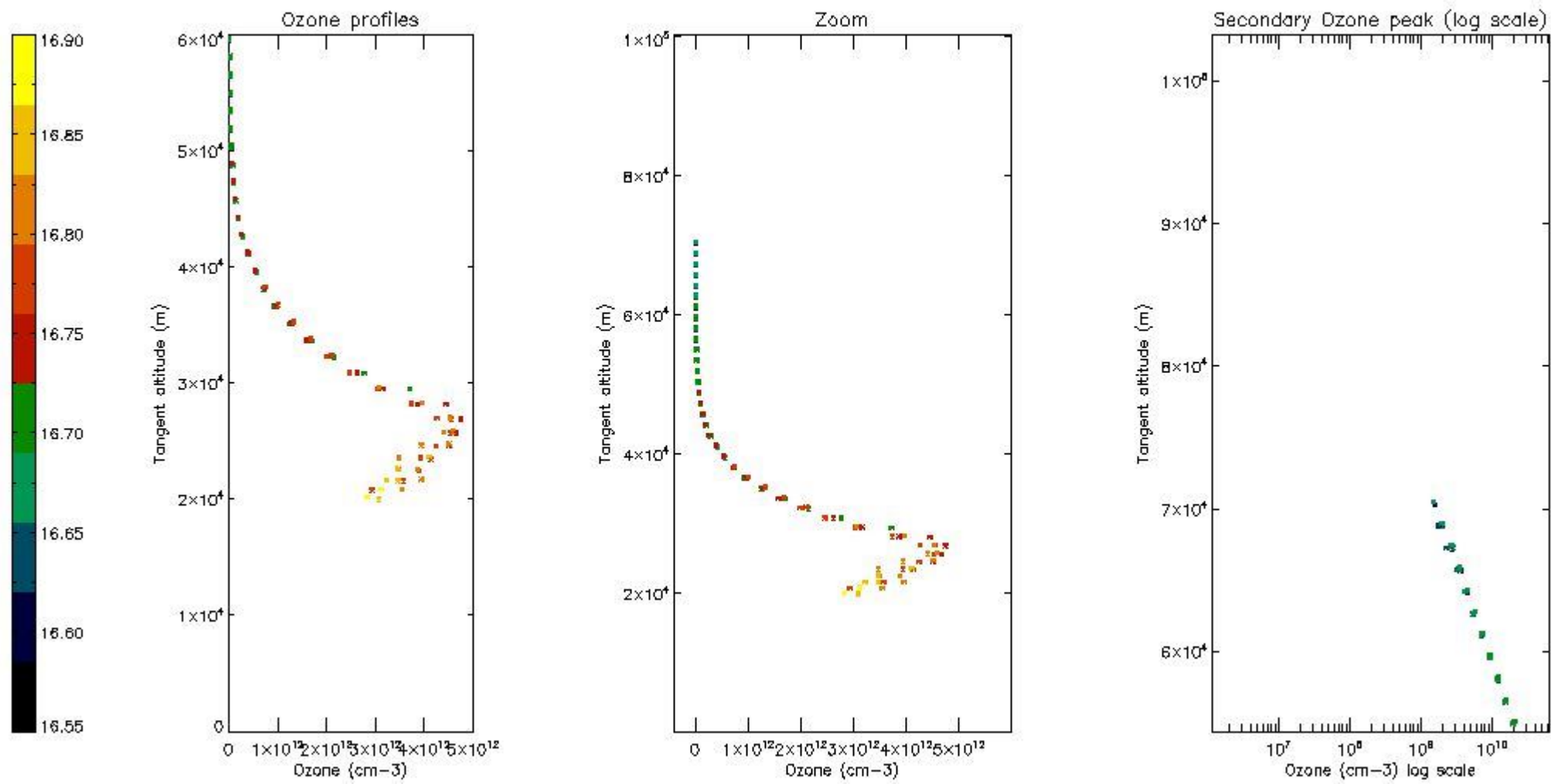
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



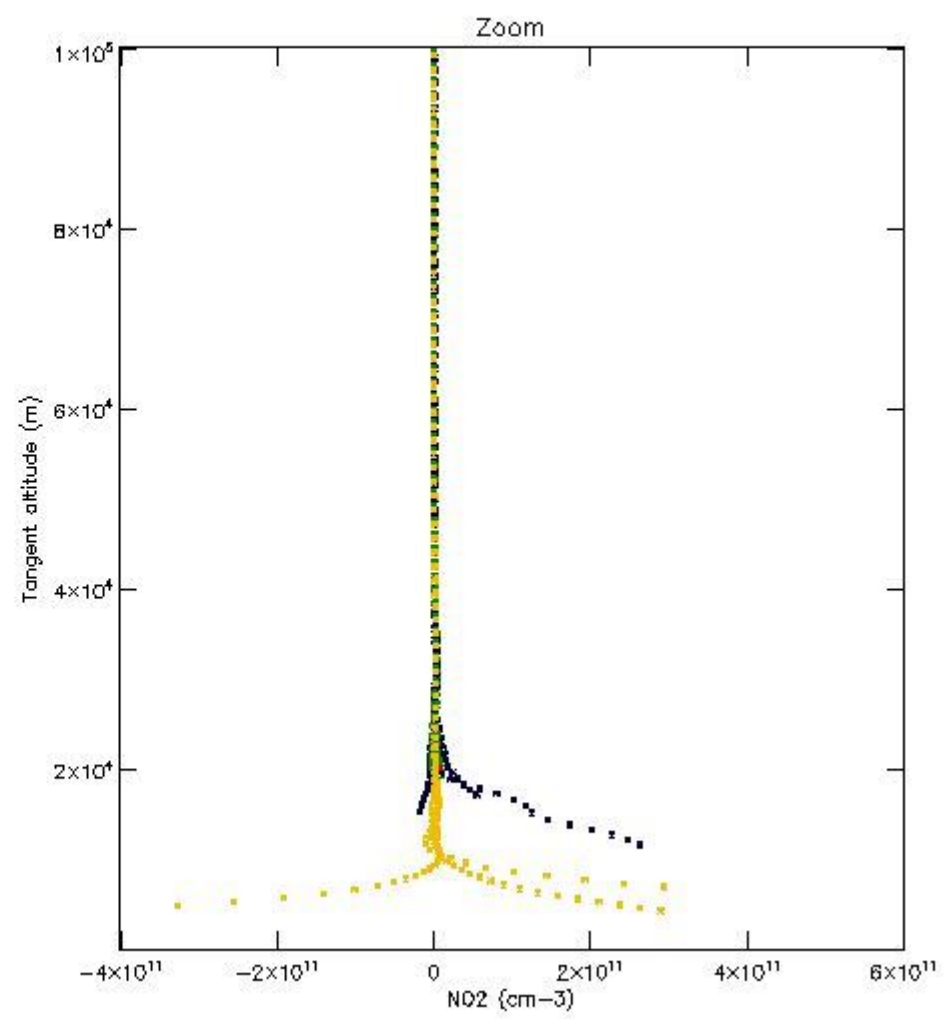
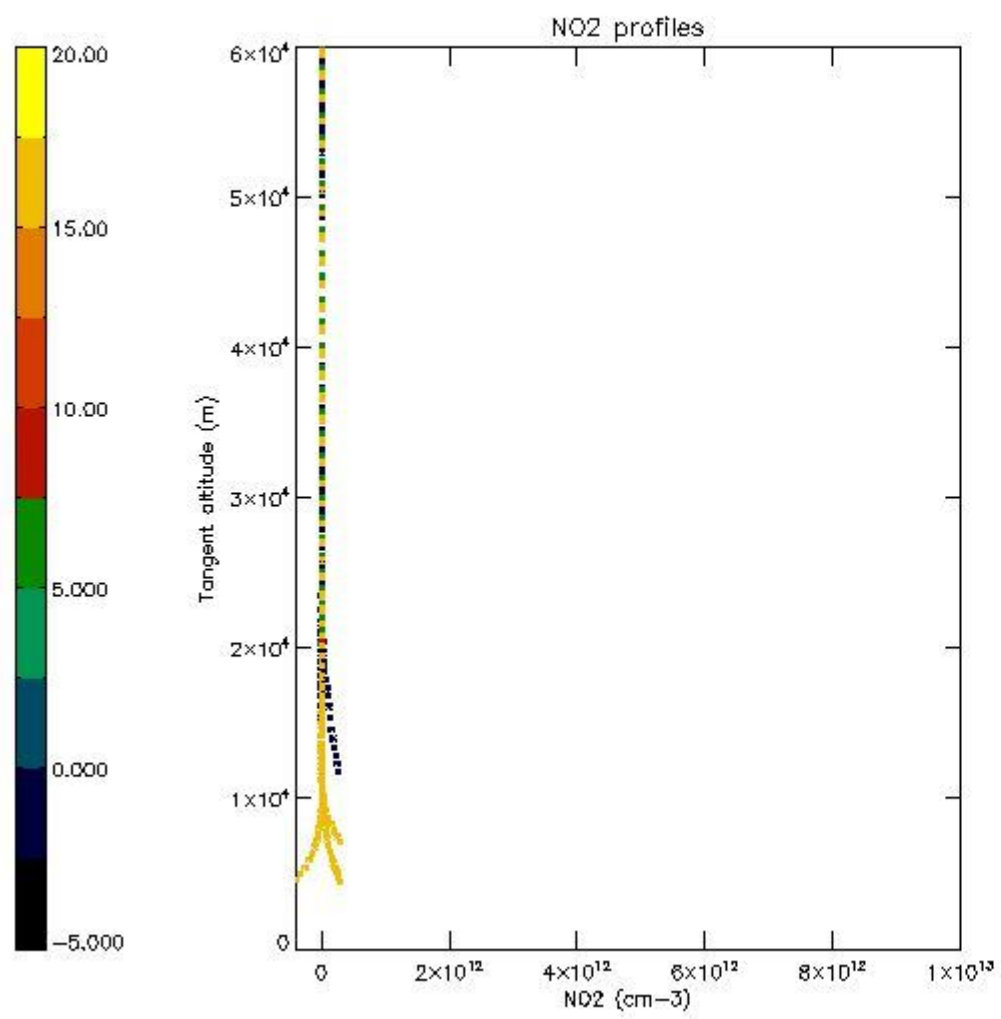
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



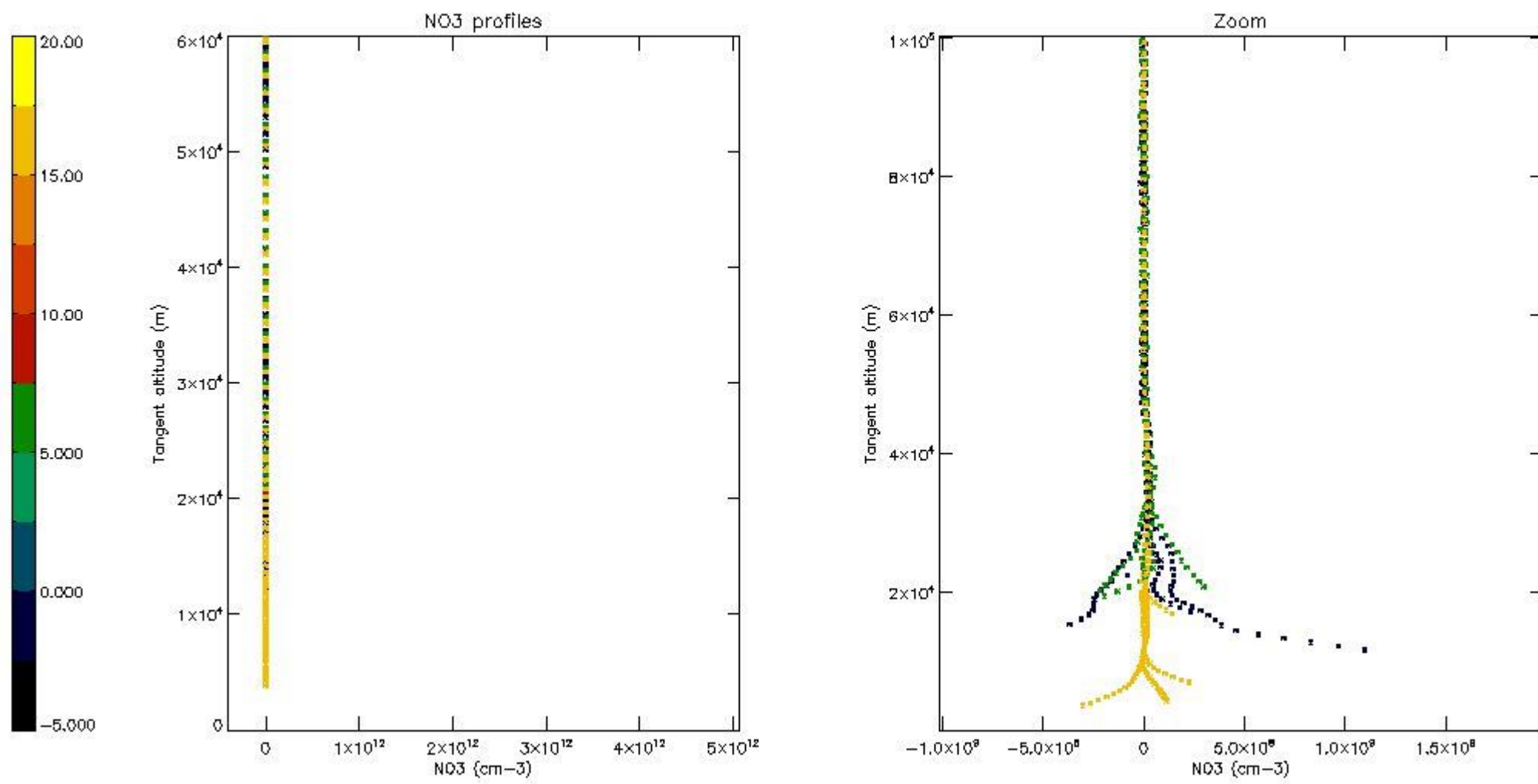
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



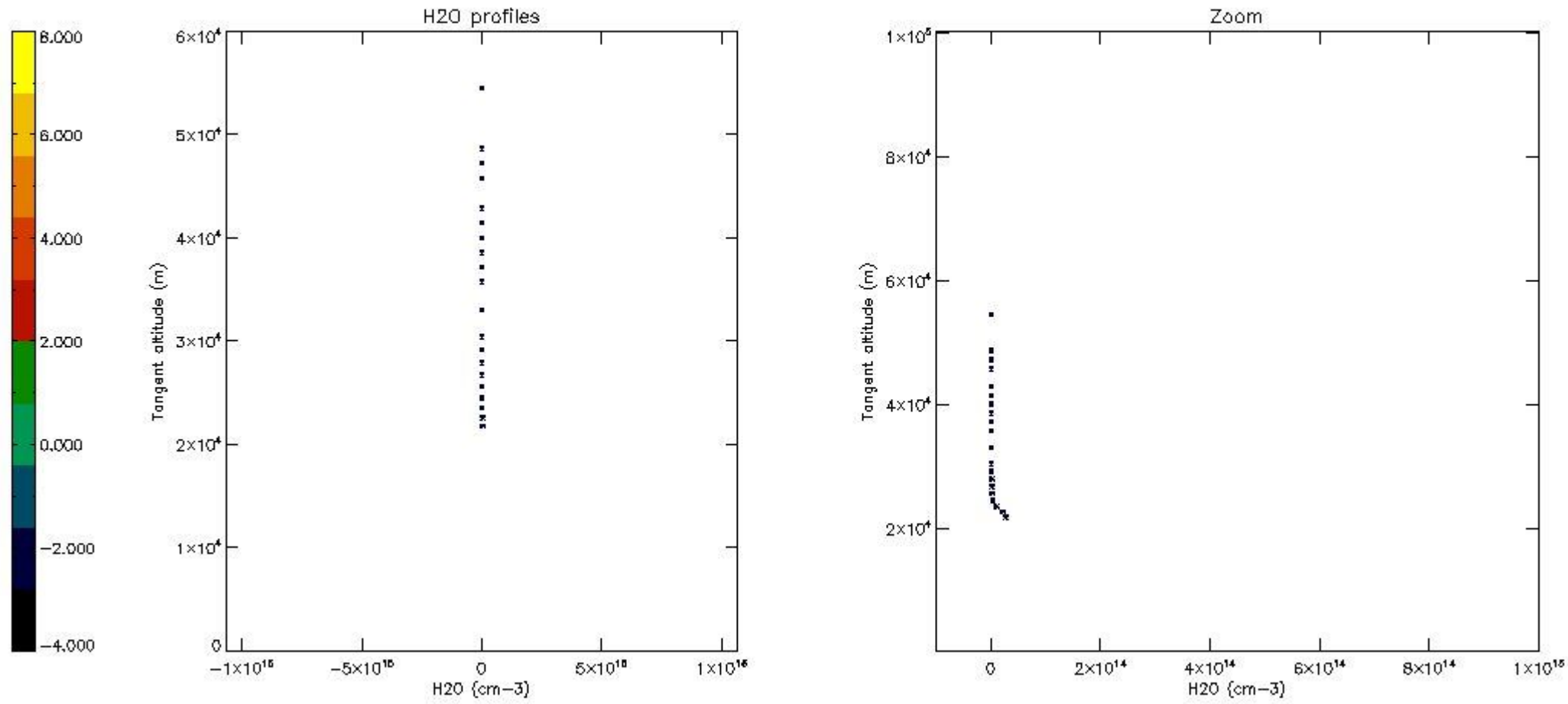
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

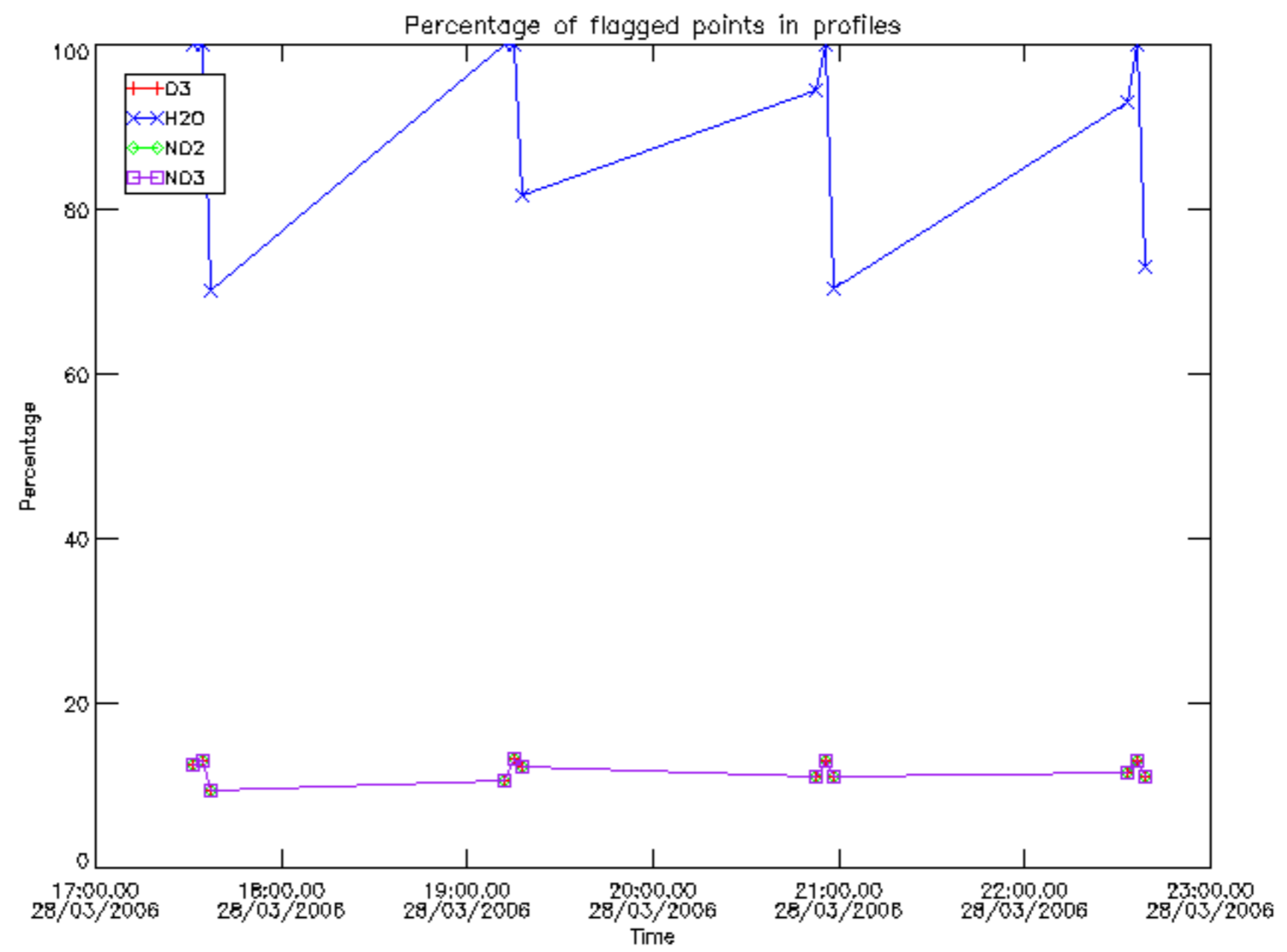


## 6. Auxiliary Data Files used for the production reported in section 2

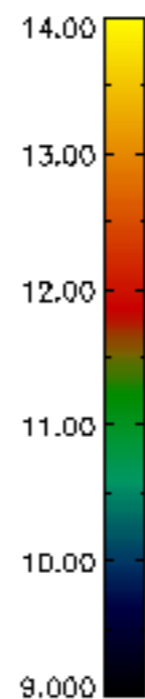
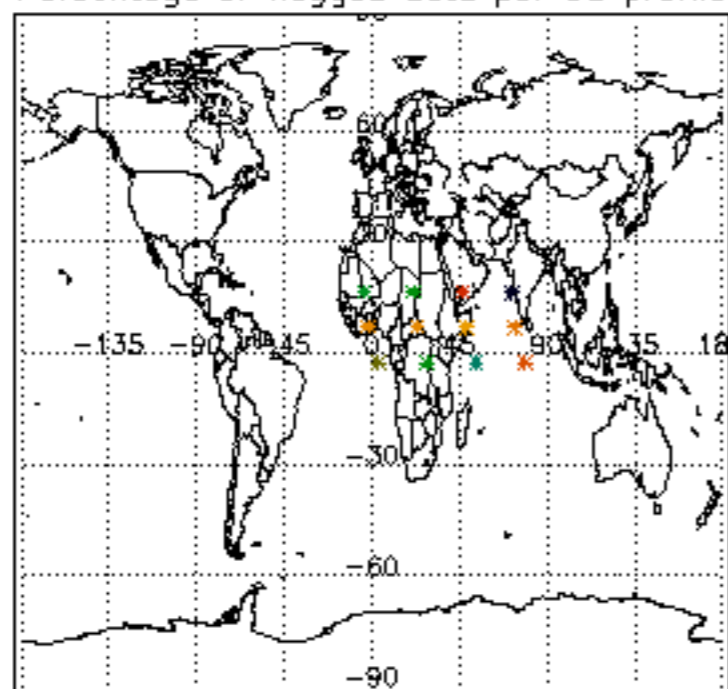
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-MAR-2006 16:50:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-MAR-2006 16:50:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-MAR-2006 16:50:52

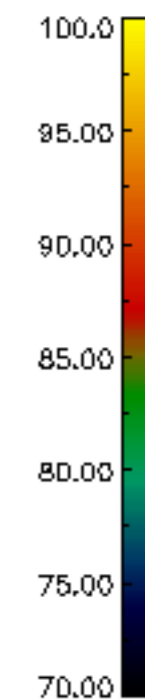
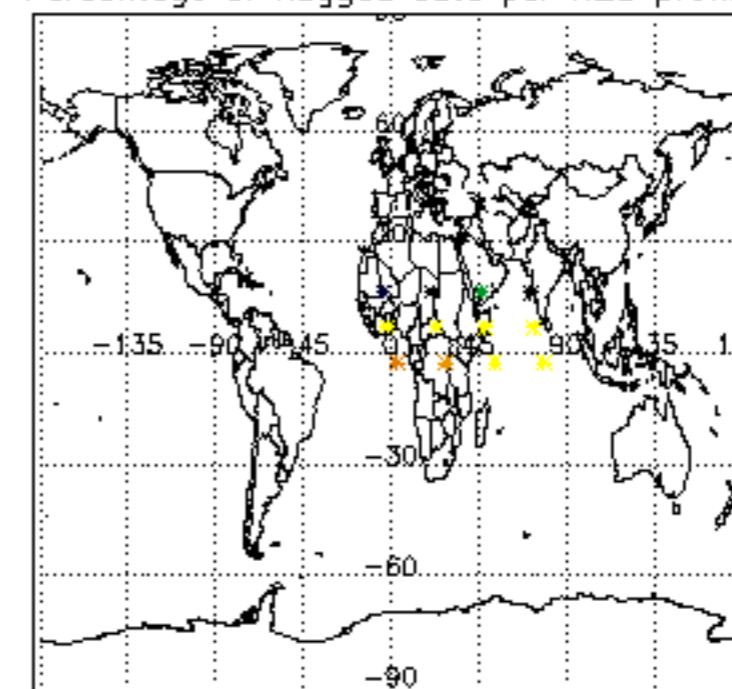




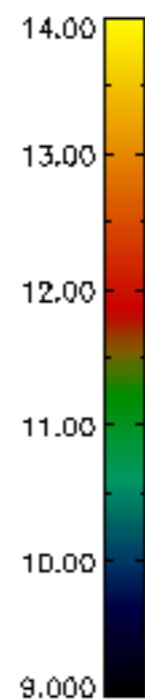
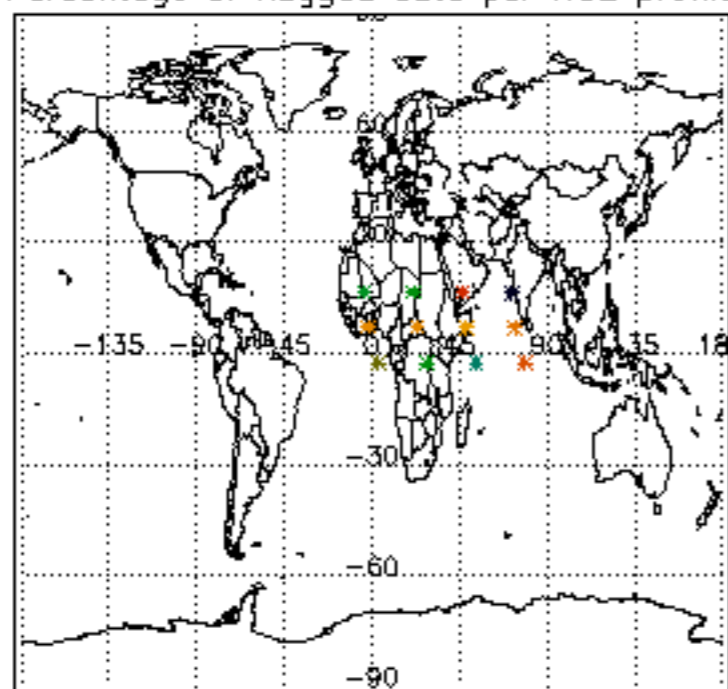
Percentage of flagged data per D3 profile



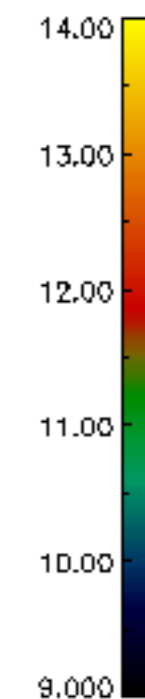
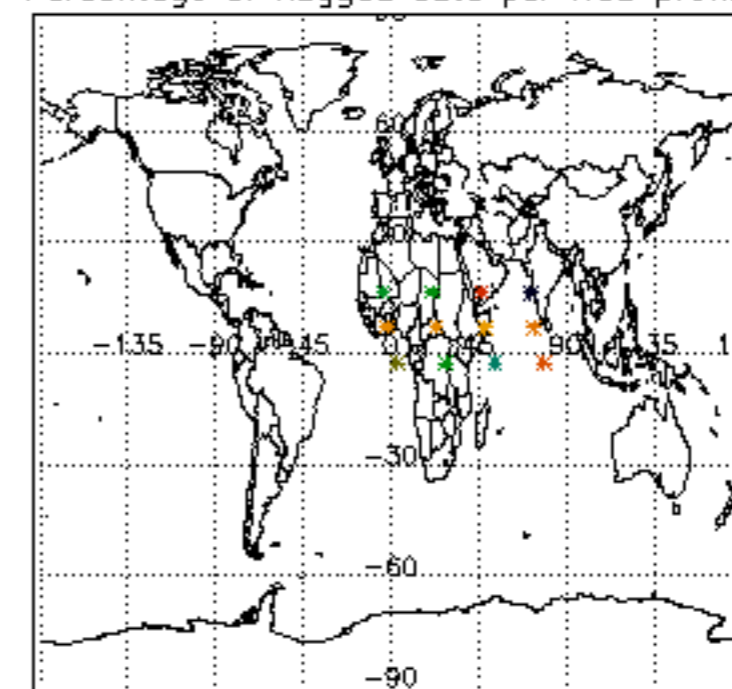
Percentage of flagged data per H2O profile

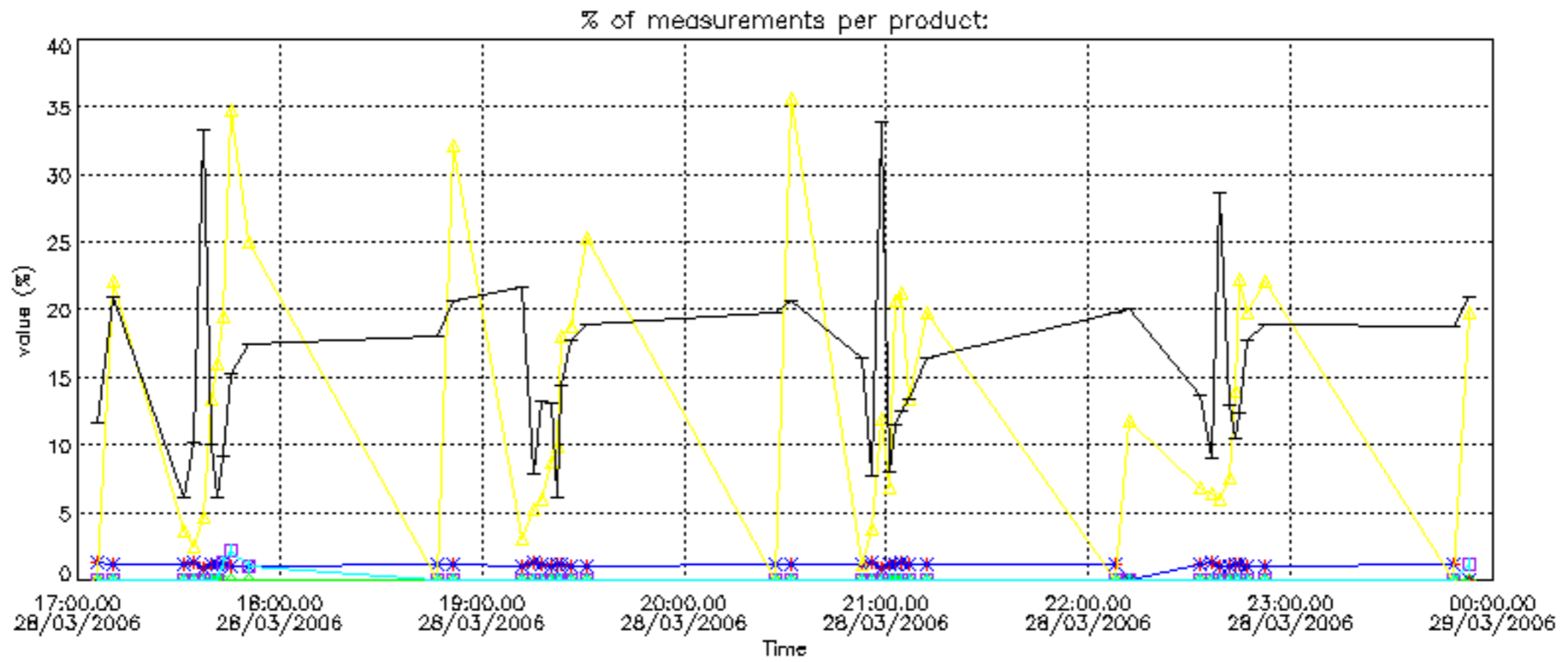


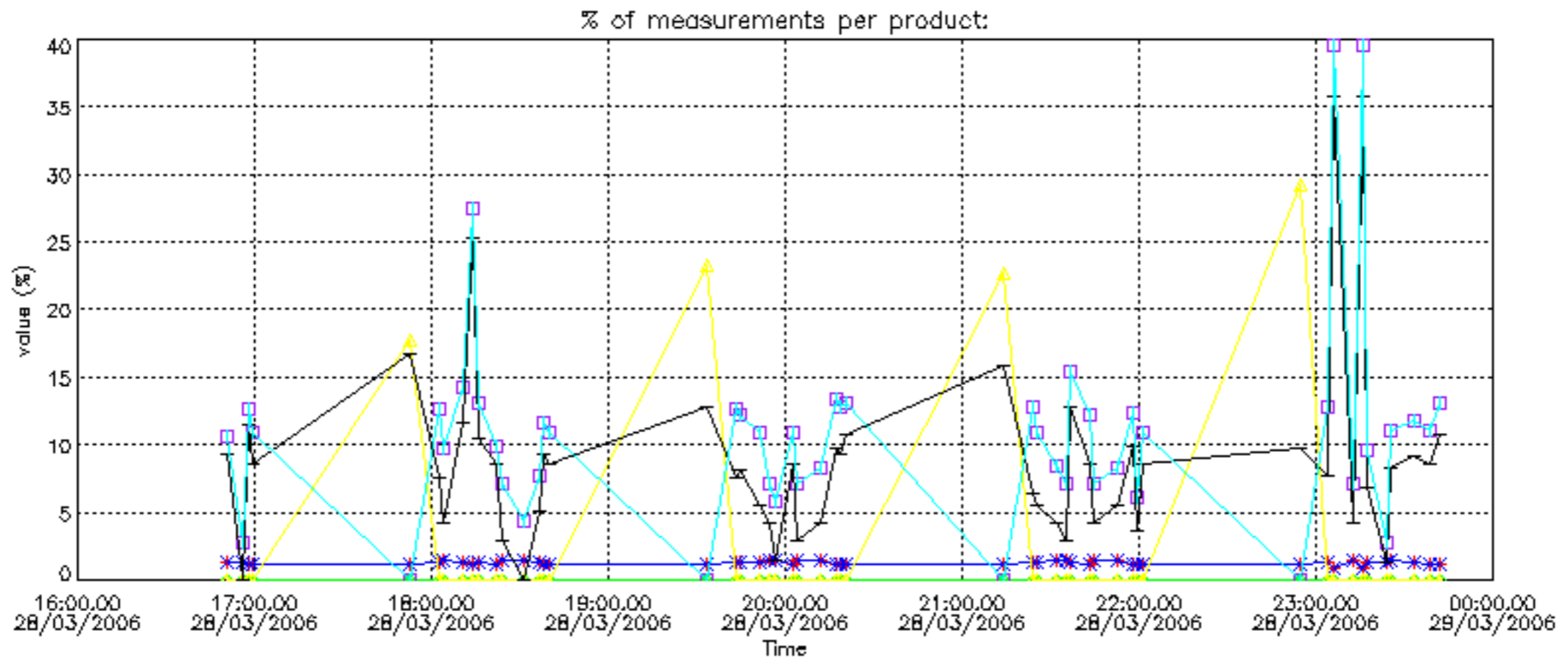
Percentage of flagged data per NO2 profile



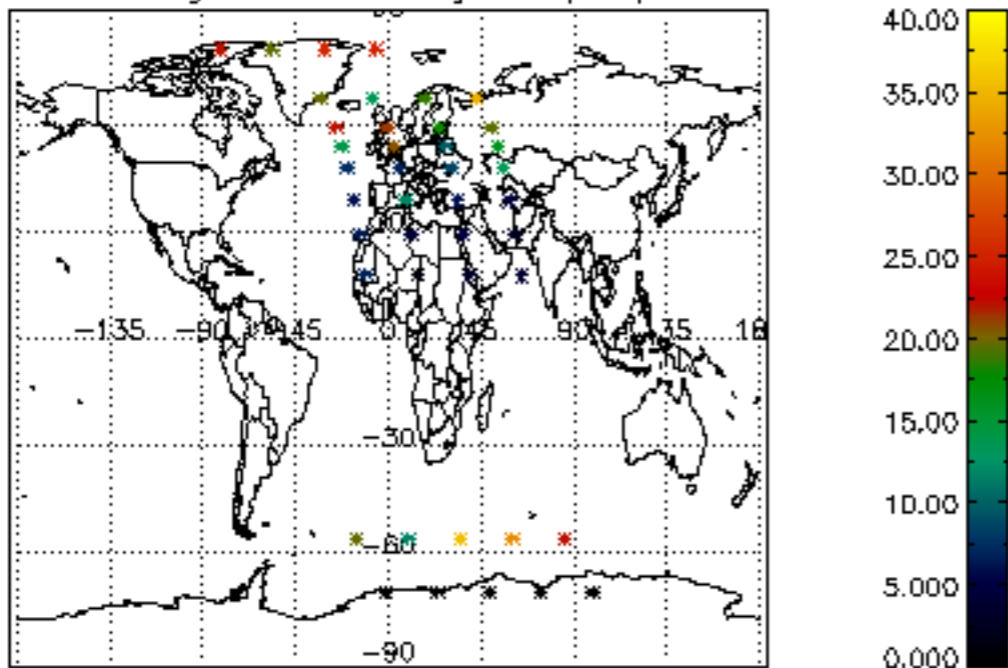
Percentage of flagged data per NO3 profile



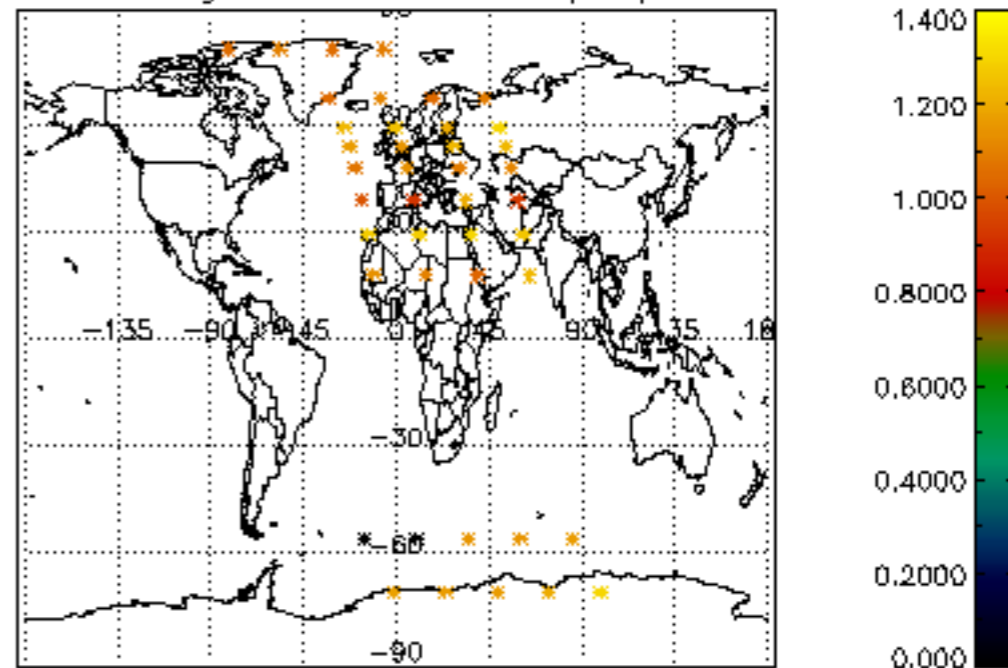




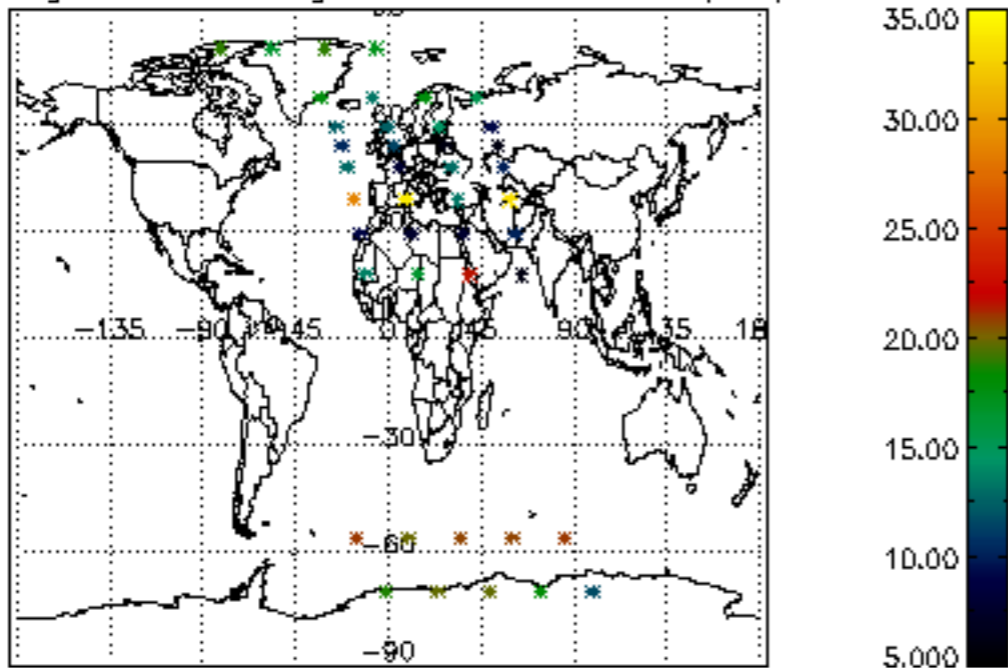
Percentage of cosmic ray hits per profile



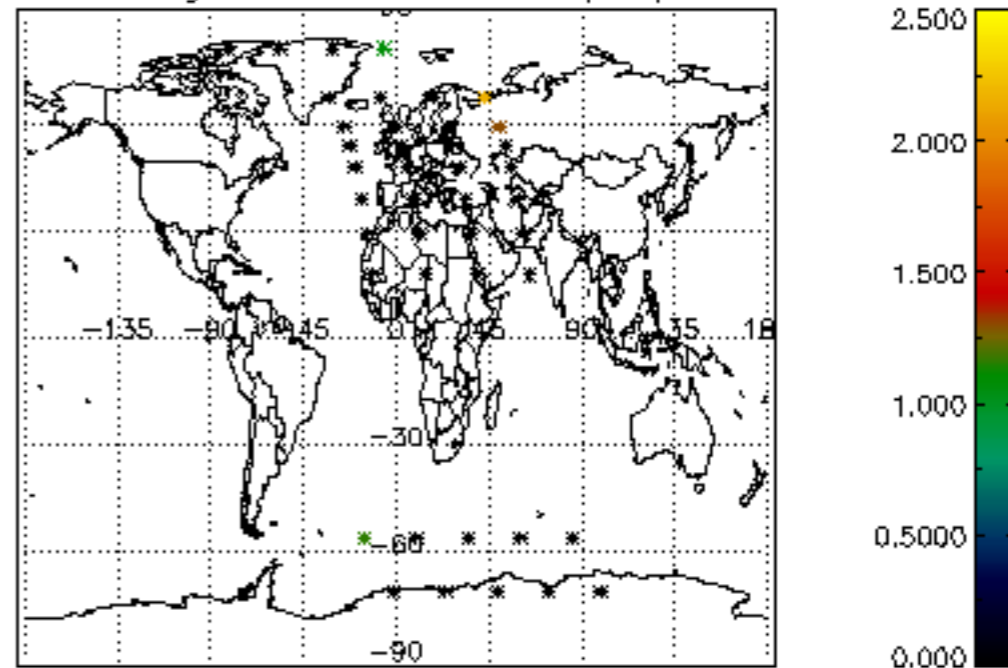
Percentage of datation errors per profile



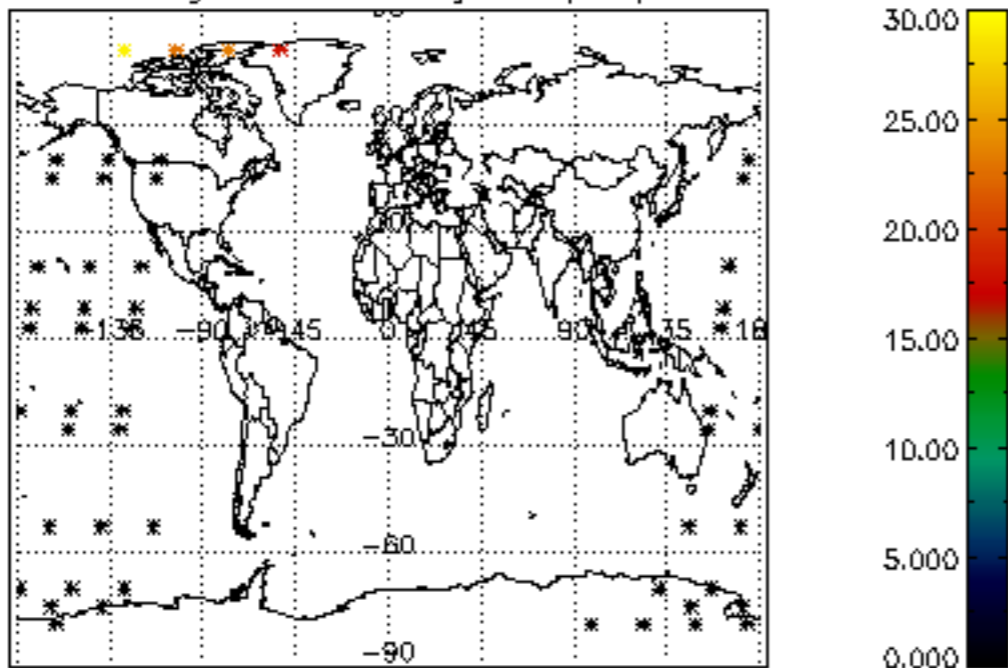
Percentage of star falling outside central band per profile



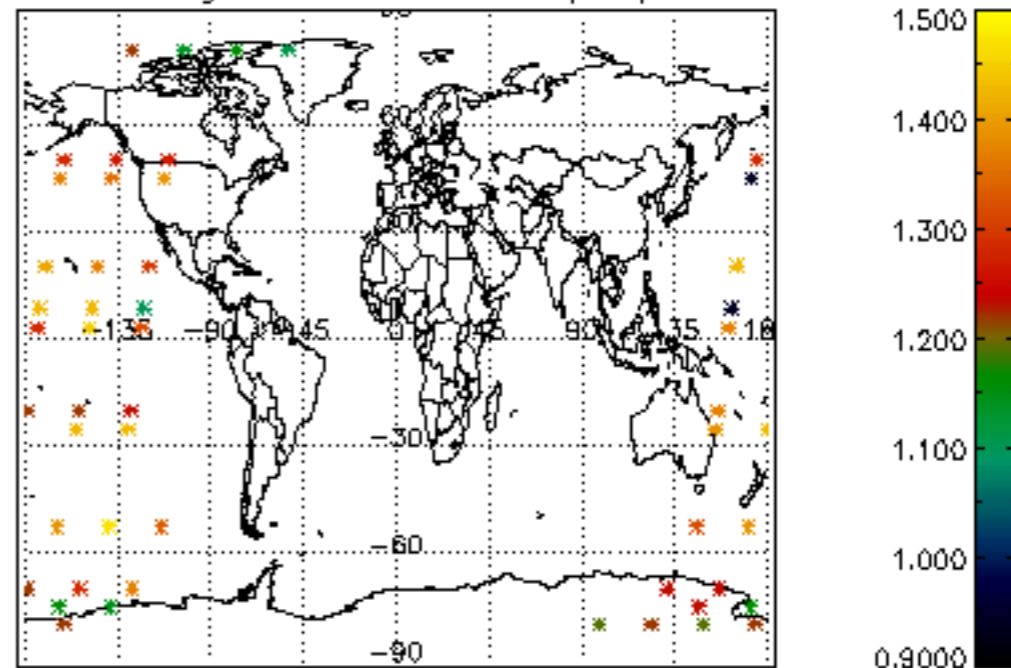
Percentage of saturation errors per profile



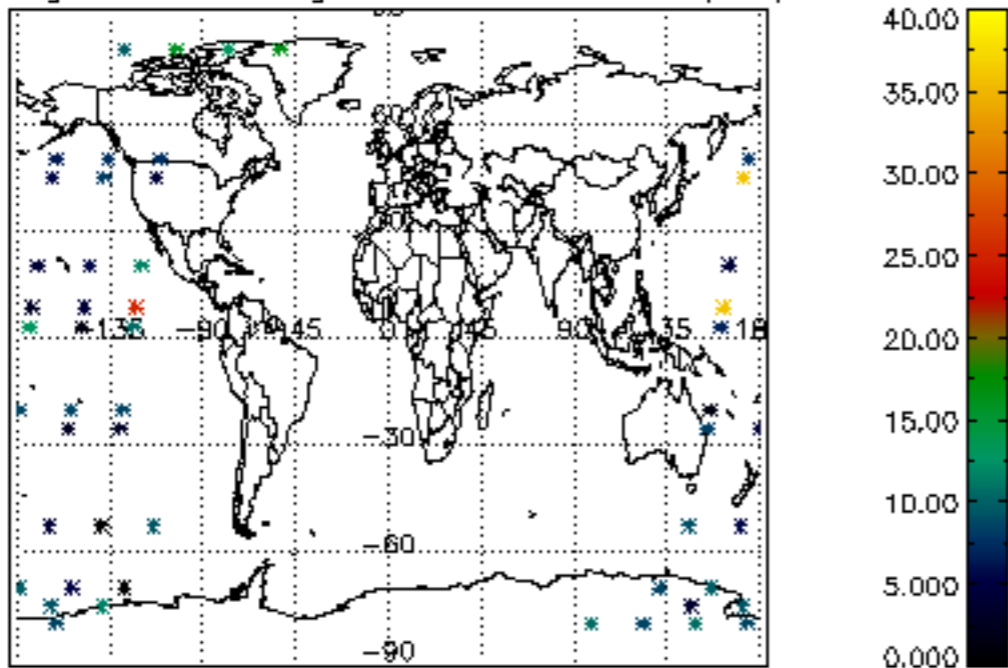
Percentage of cosmic ray hits per profile



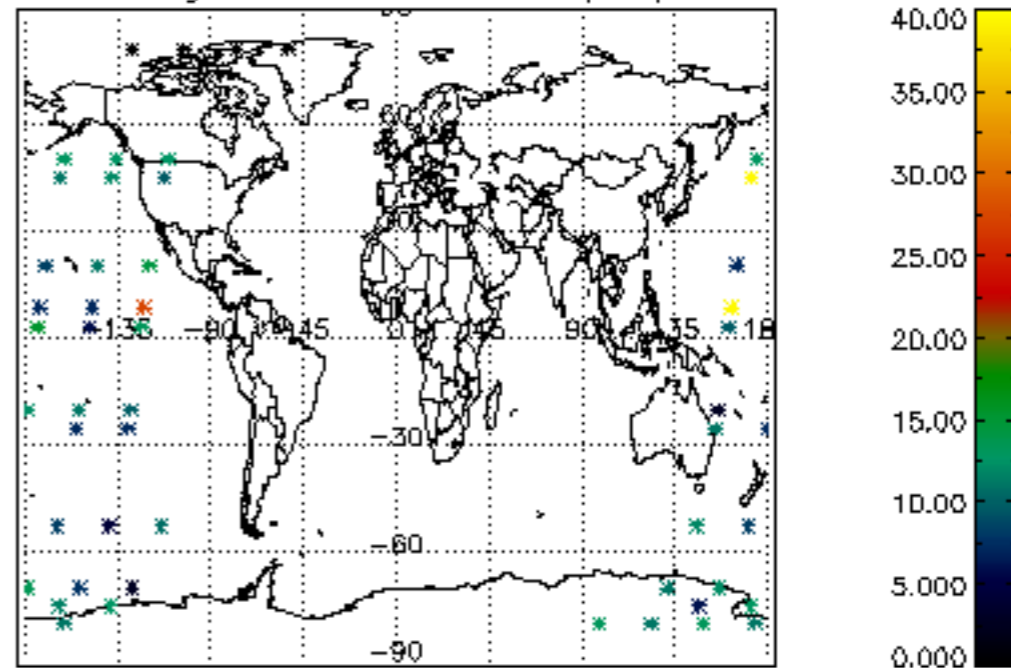
Percentage of datation errors per profile

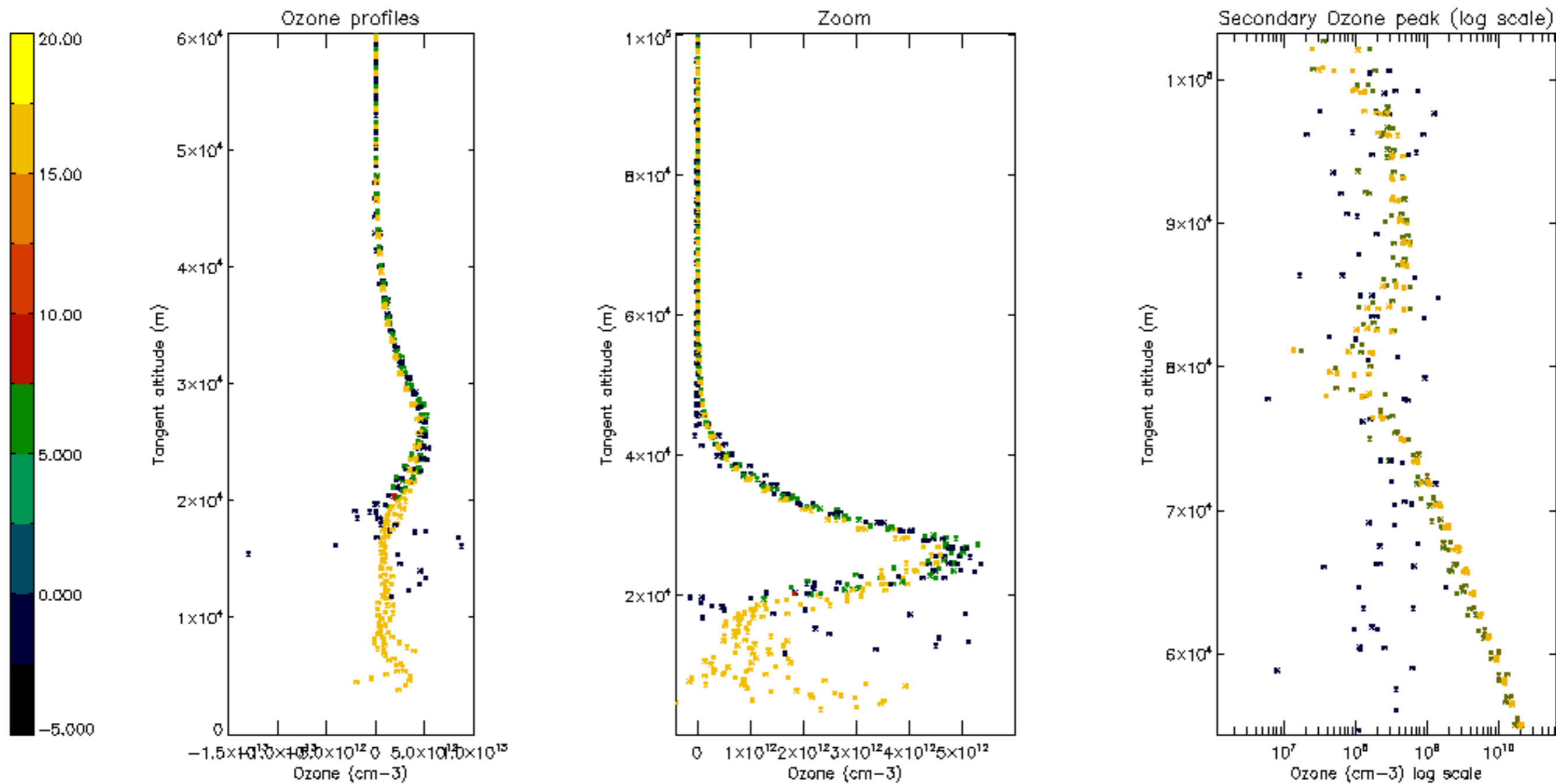


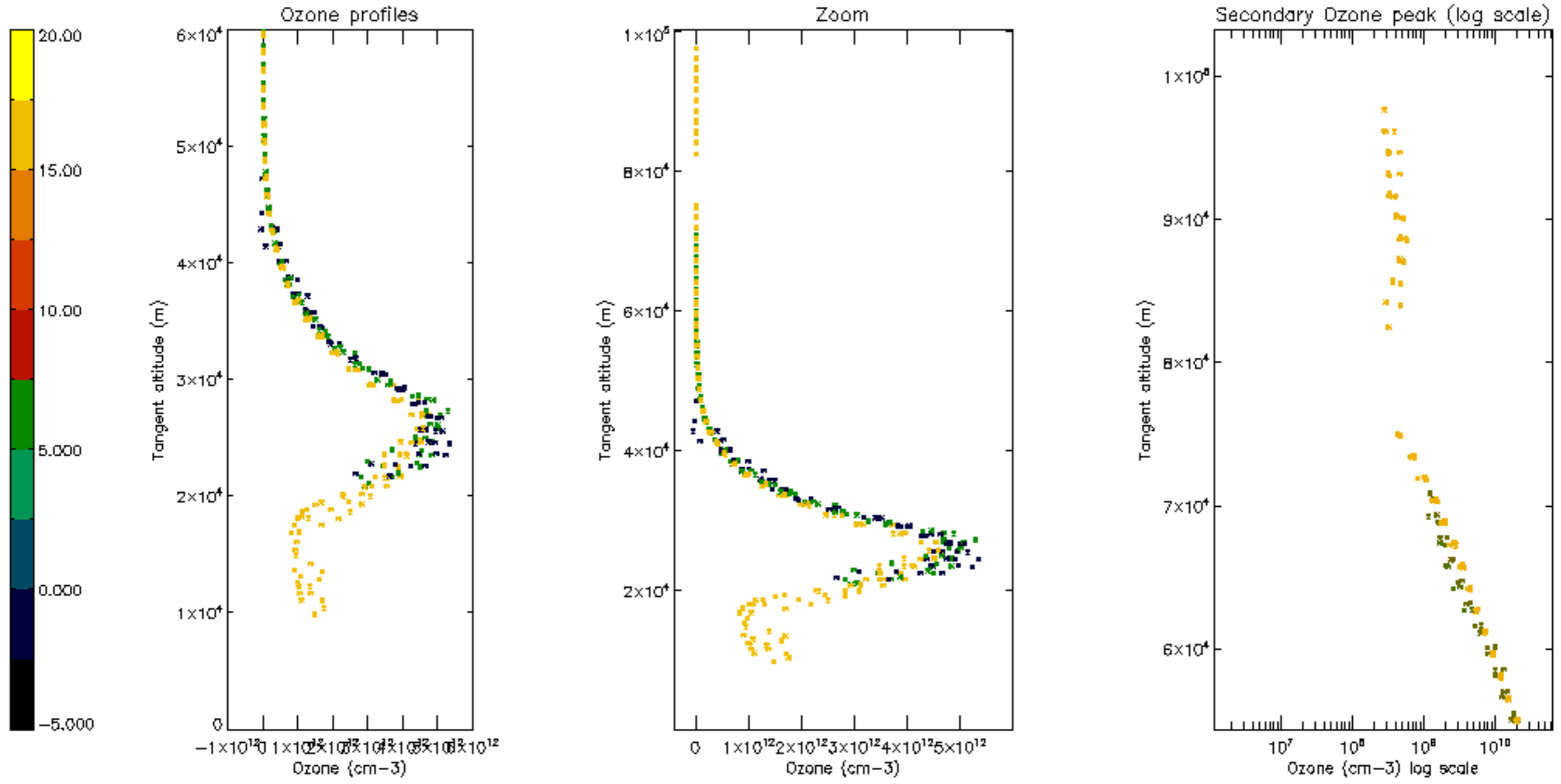
Percentage of star falling outside central band per profile



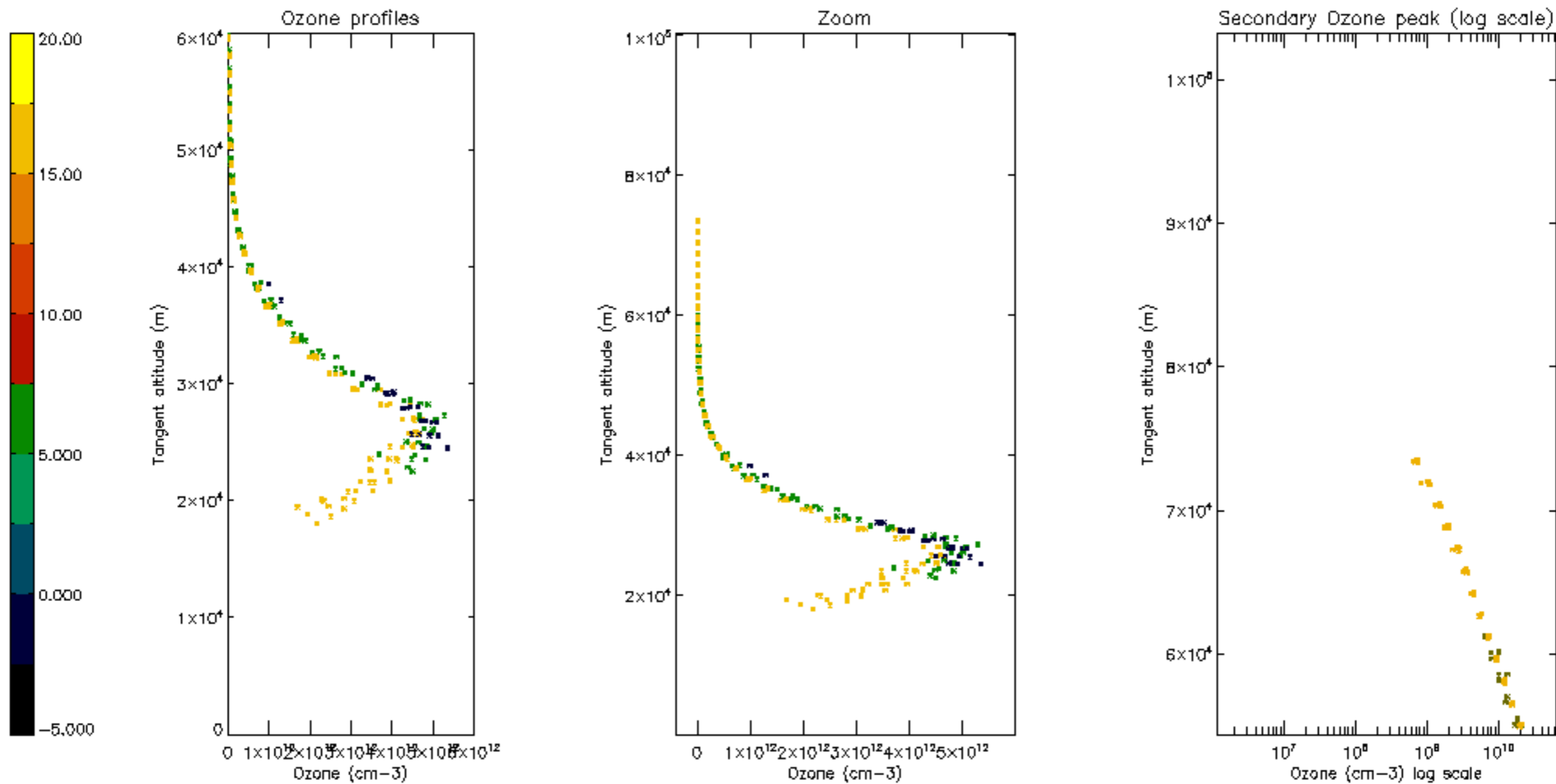
Percentage of saturation errors per profile

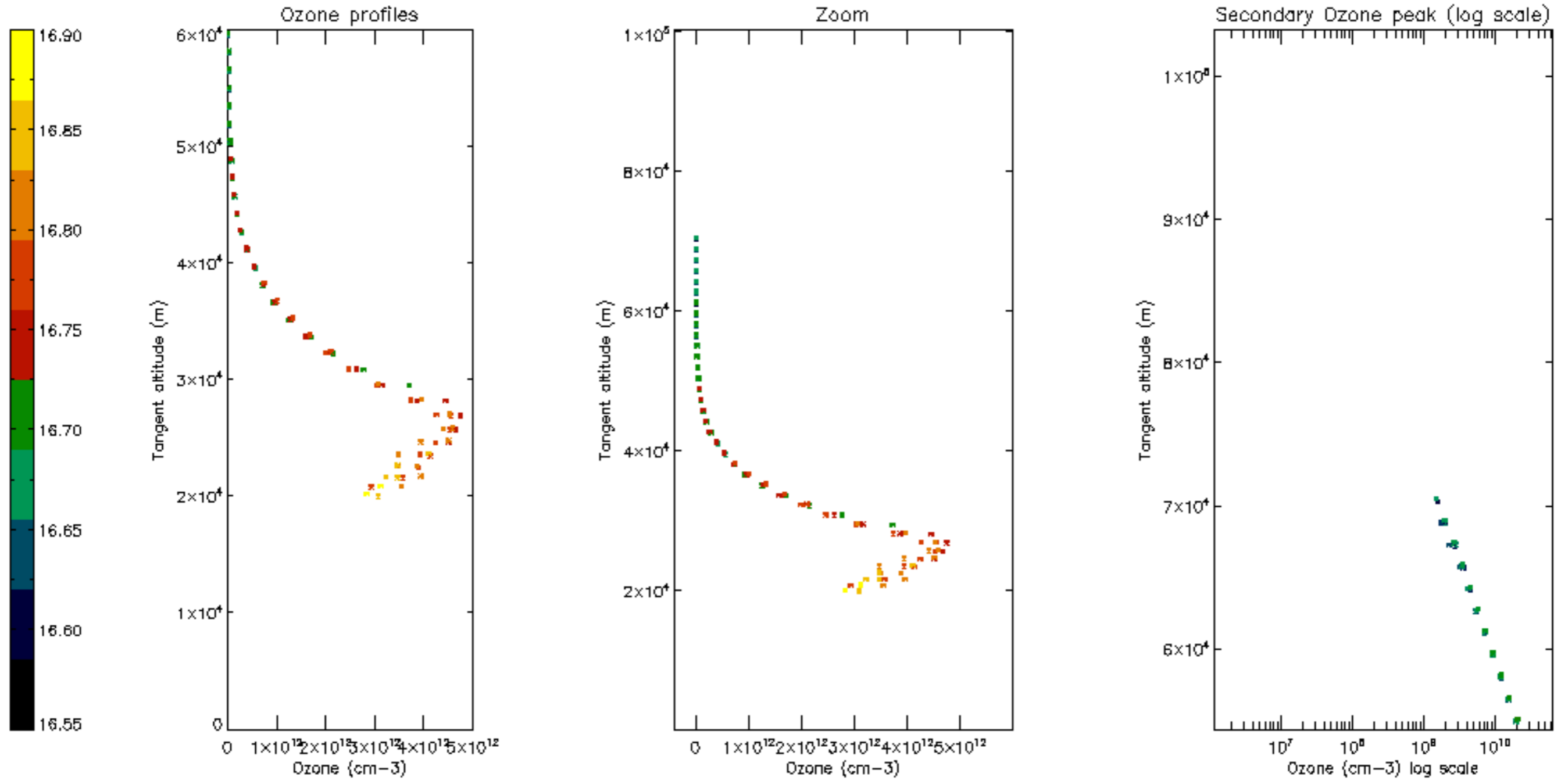


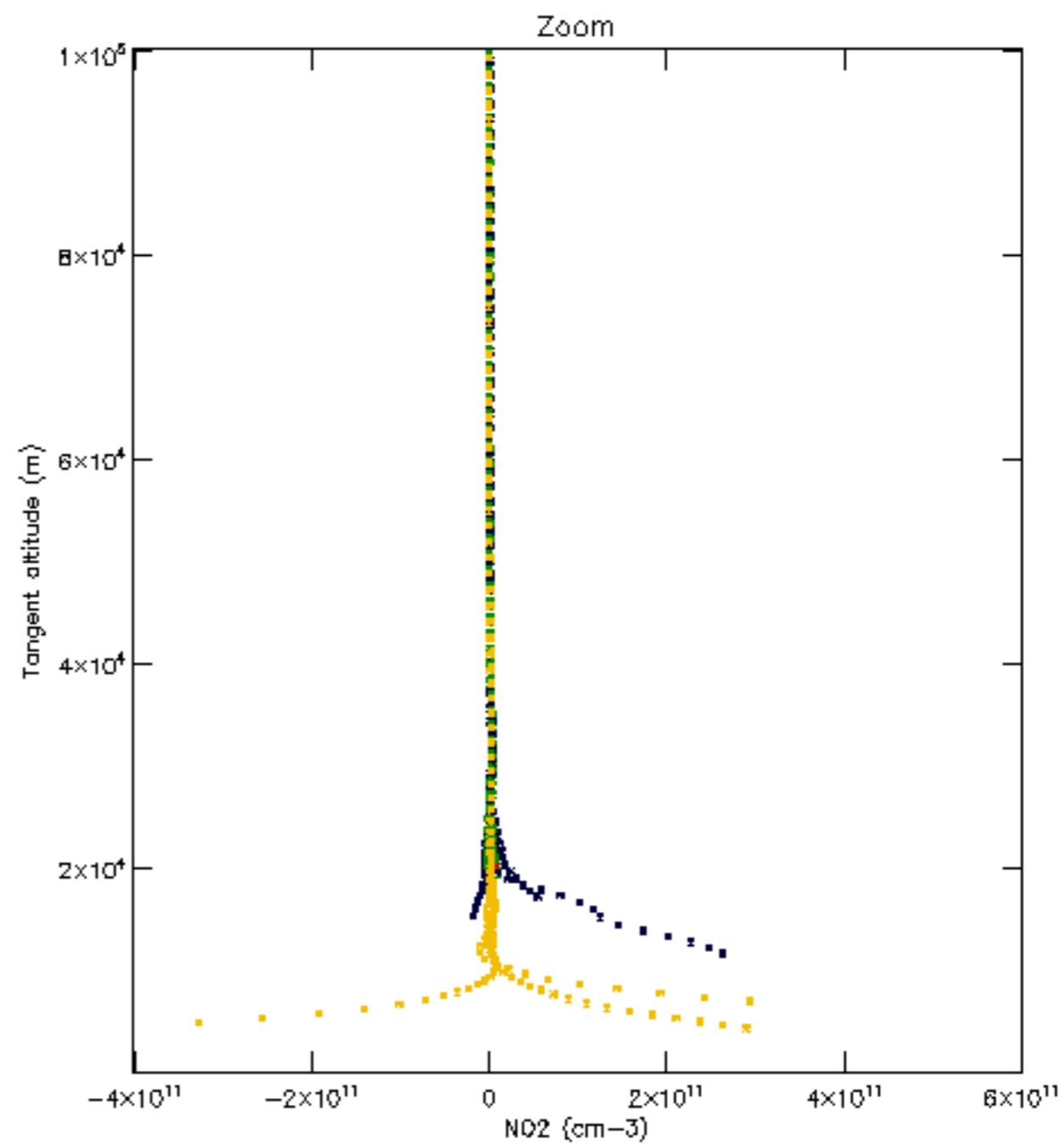
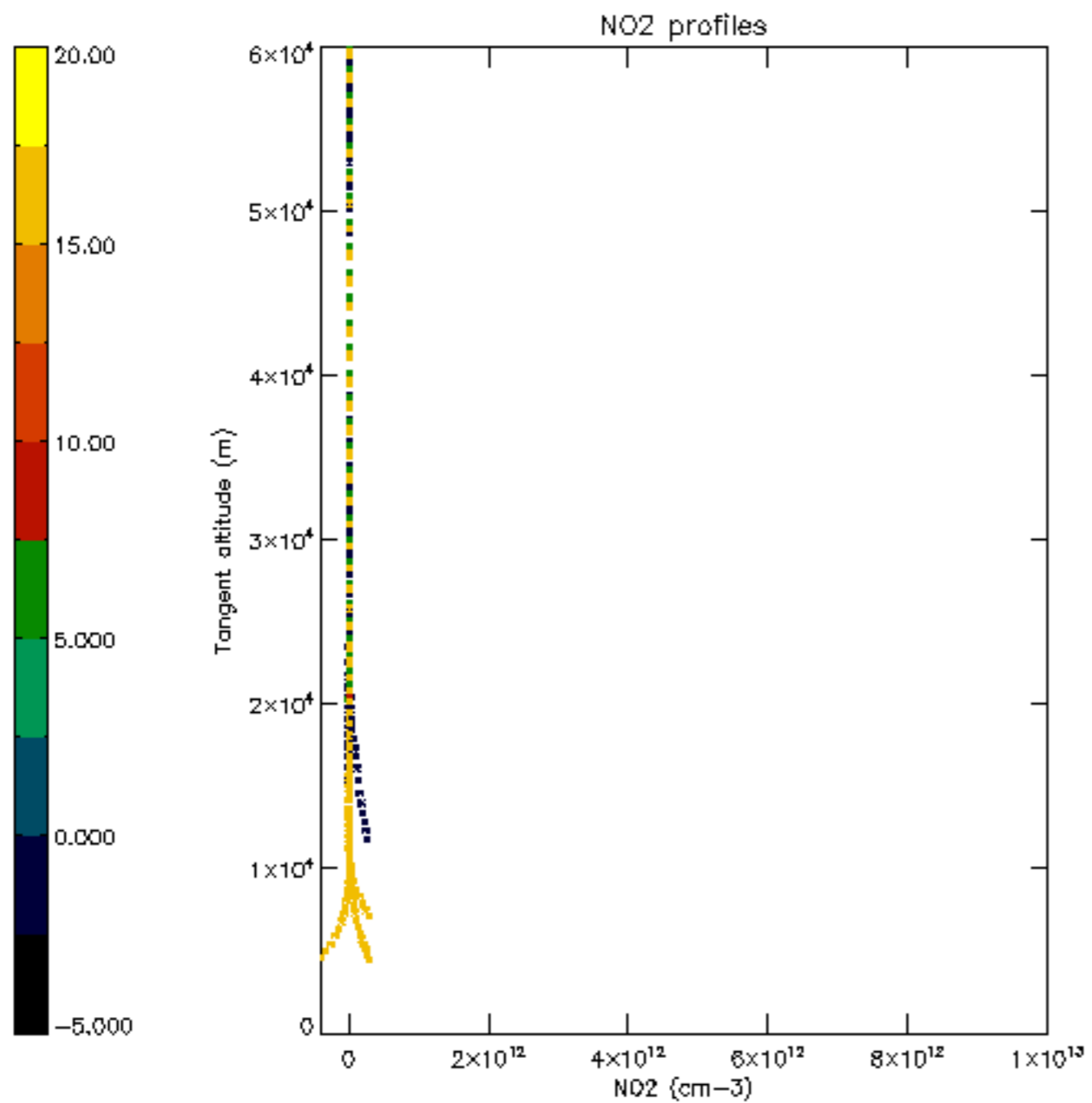


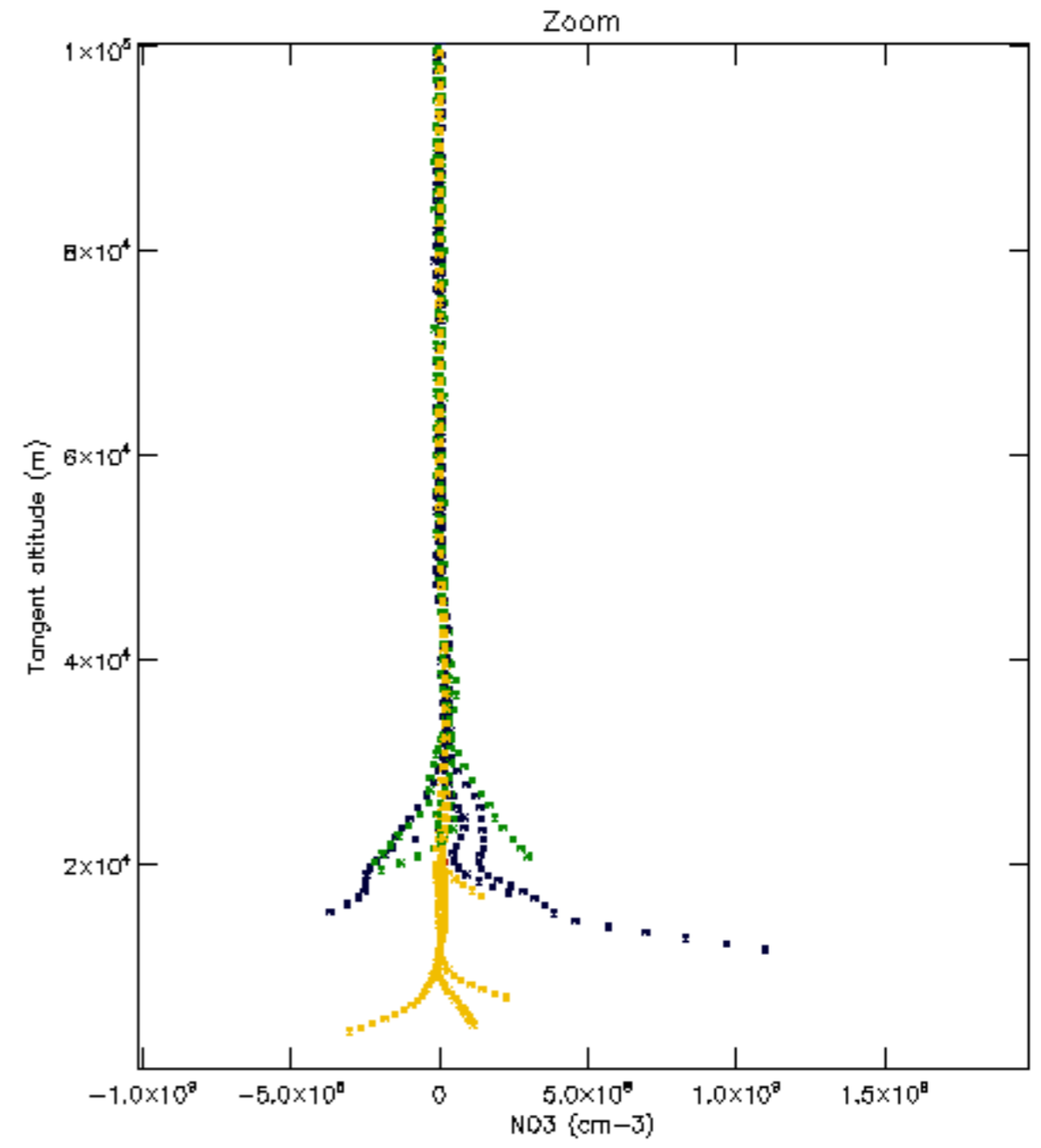
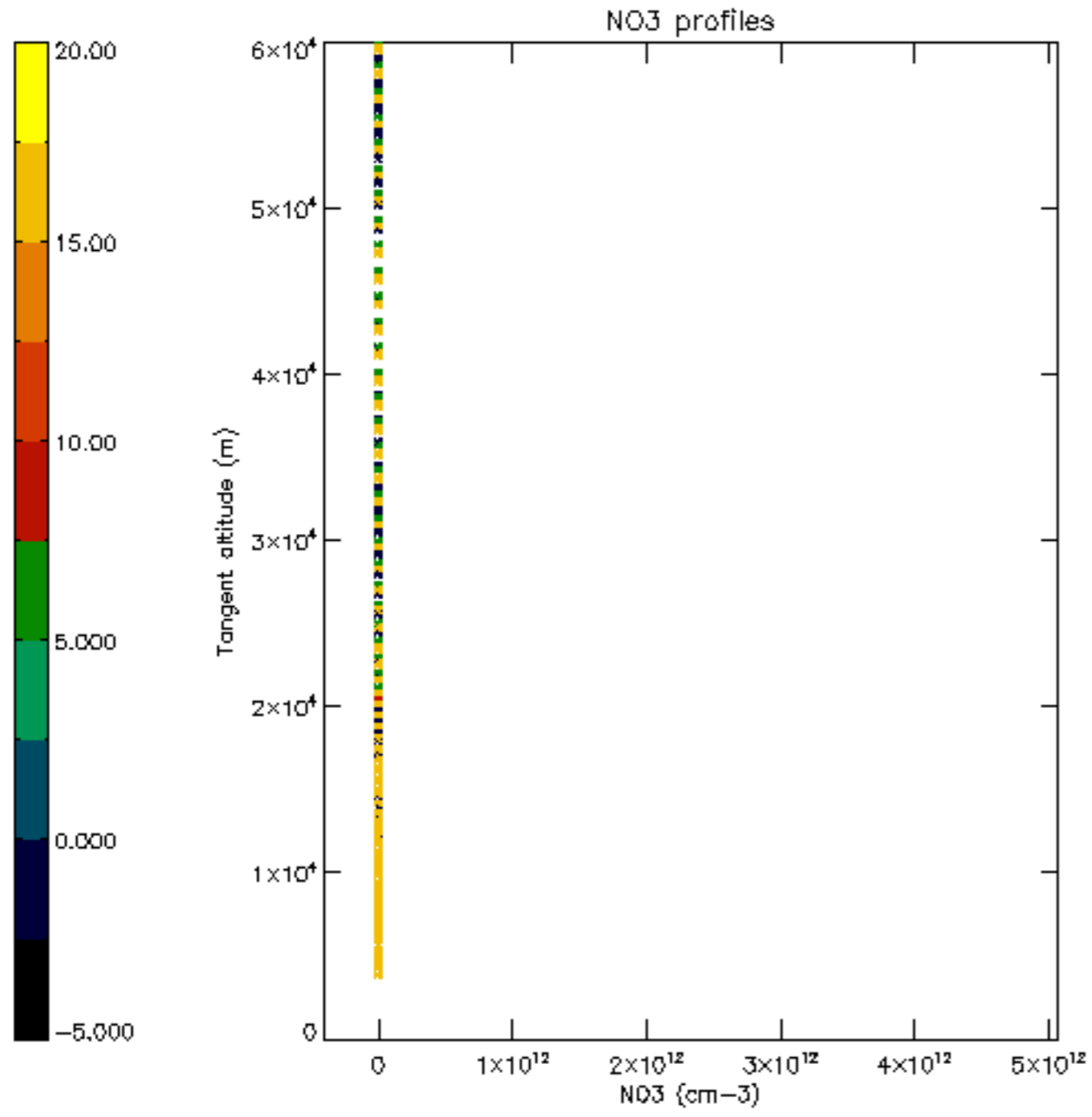


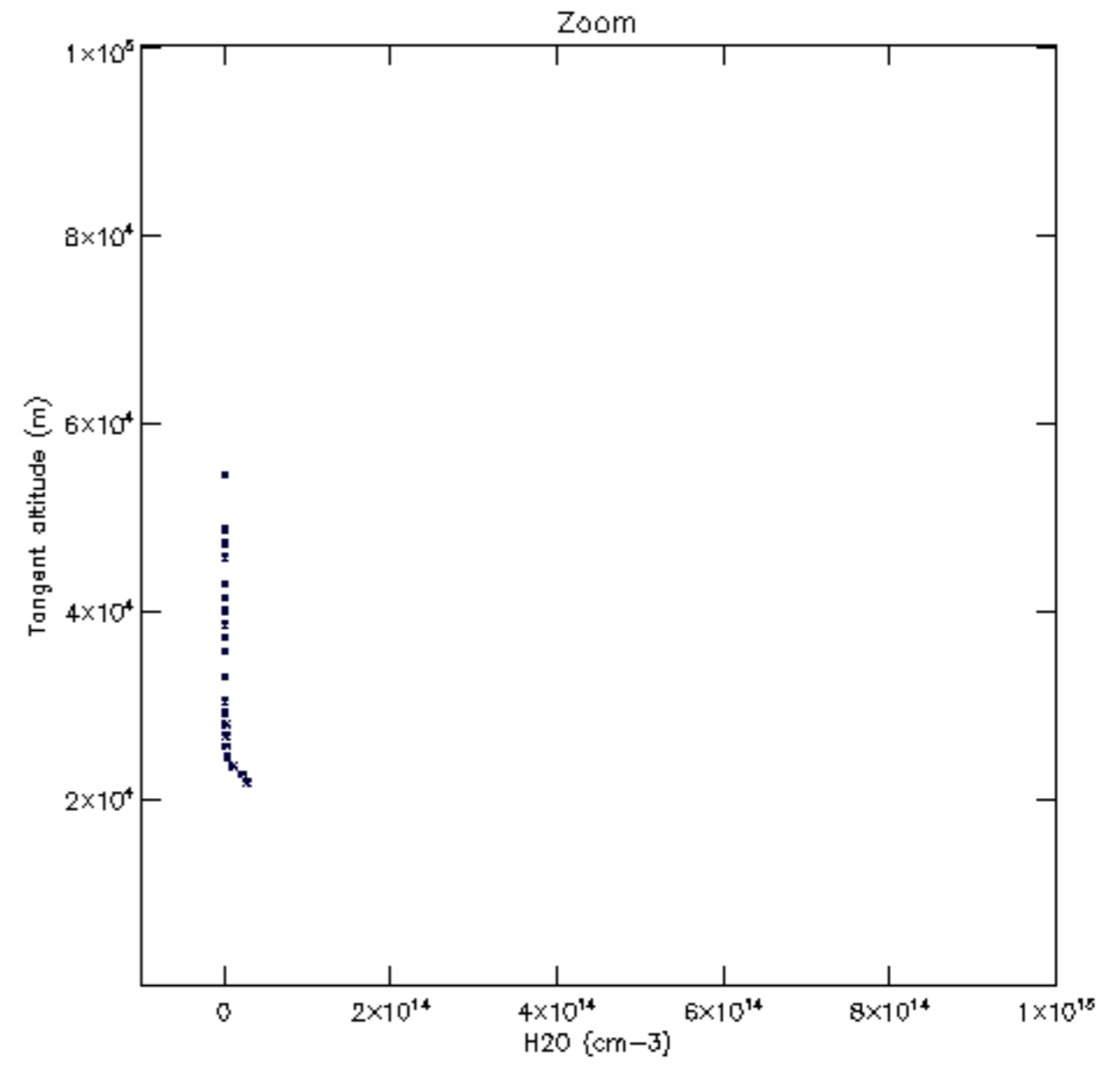
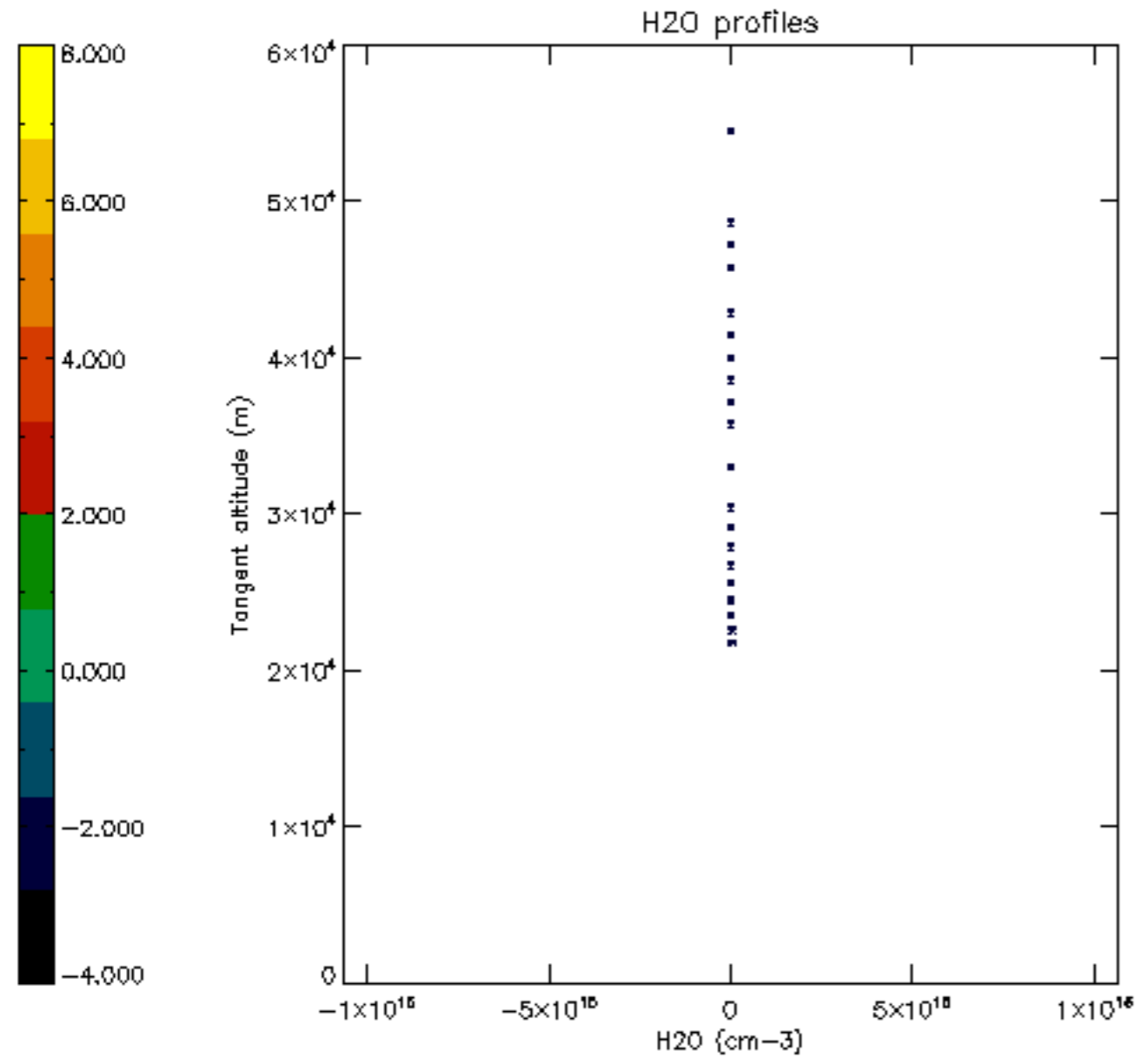


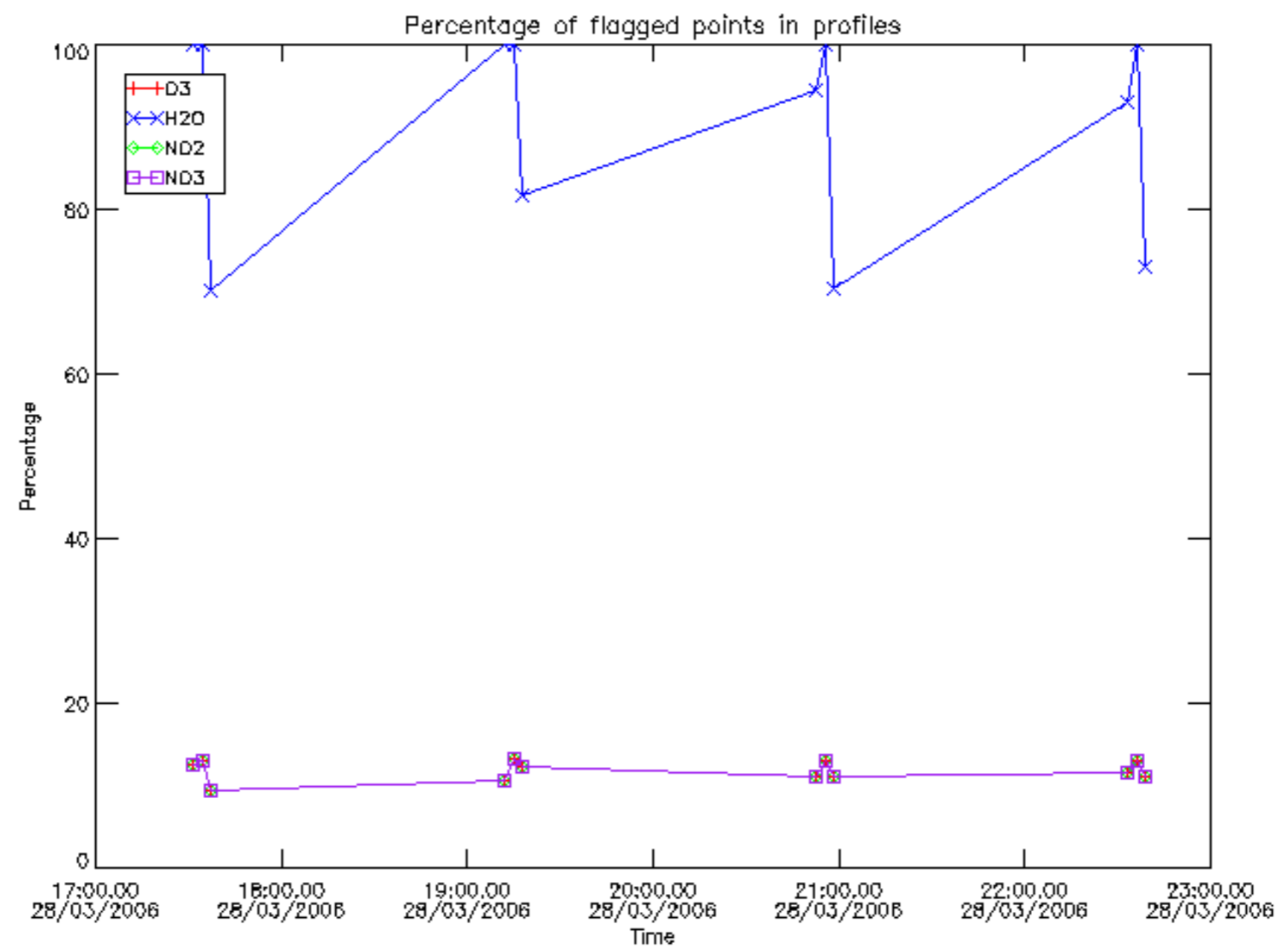




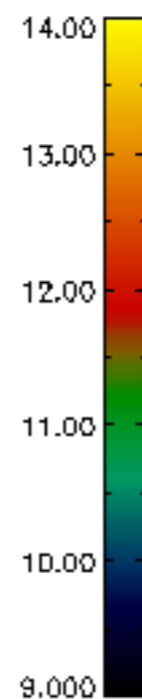
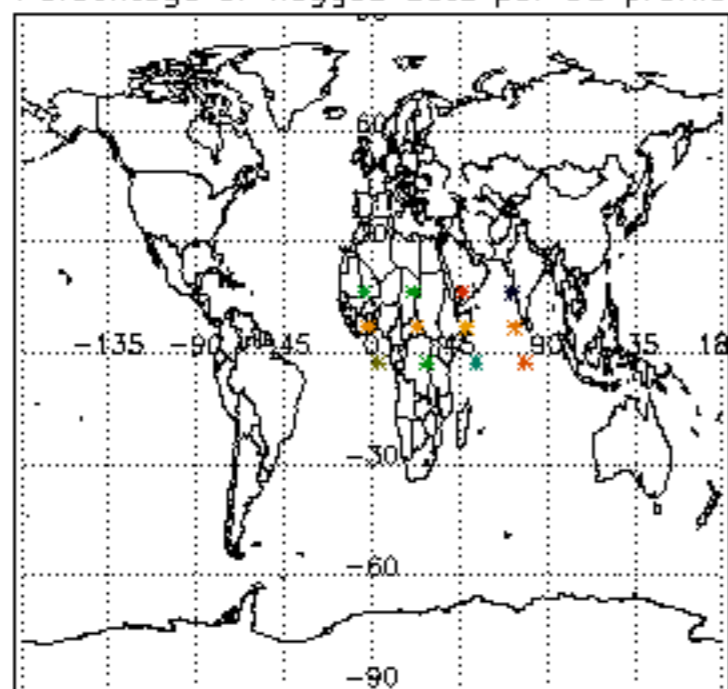




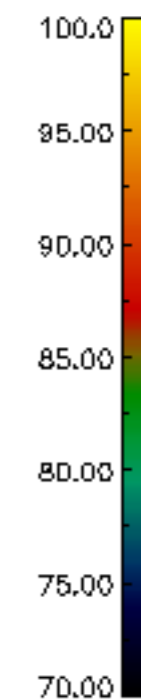
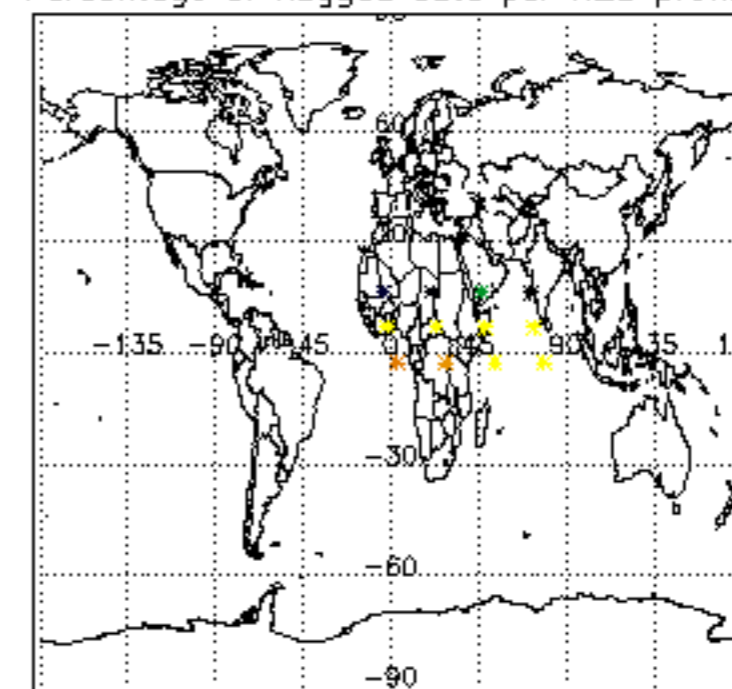




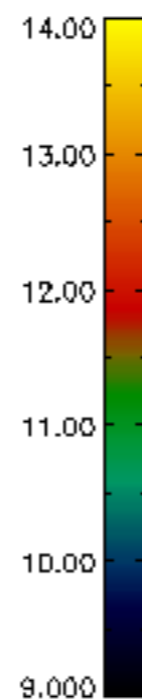
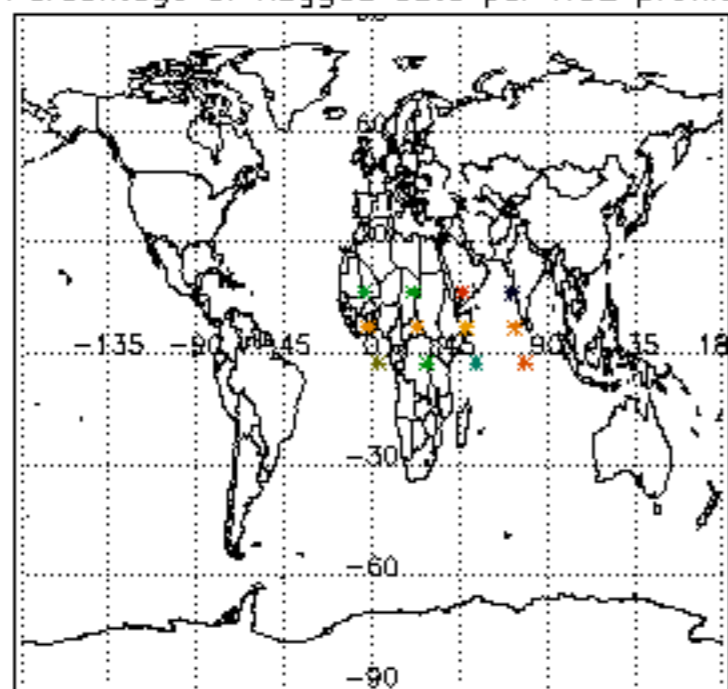
Percentage of flagged data per D3 profile



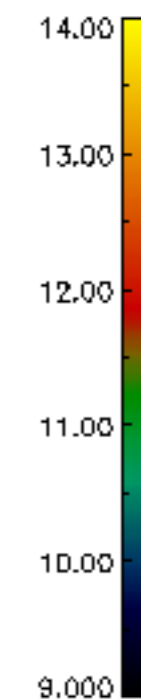
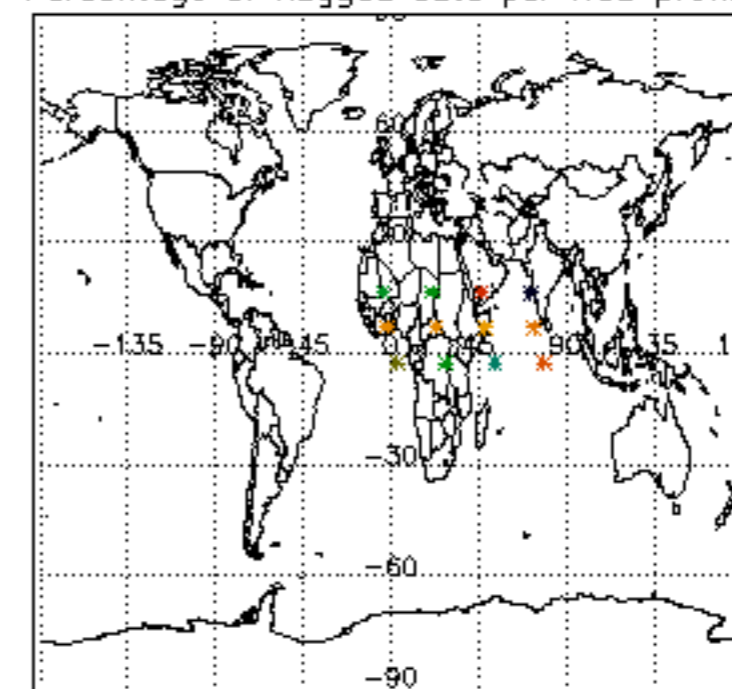
Percentage of flagged data per H2O profile

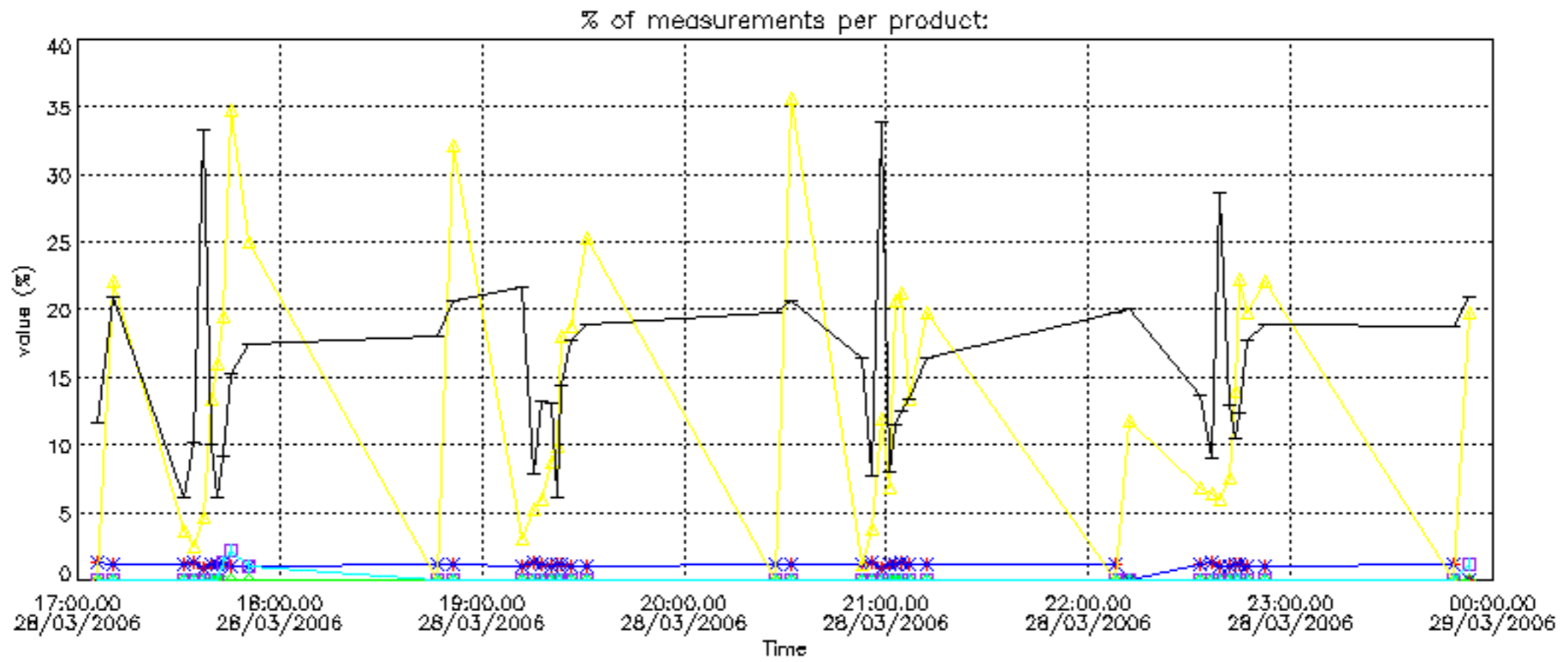
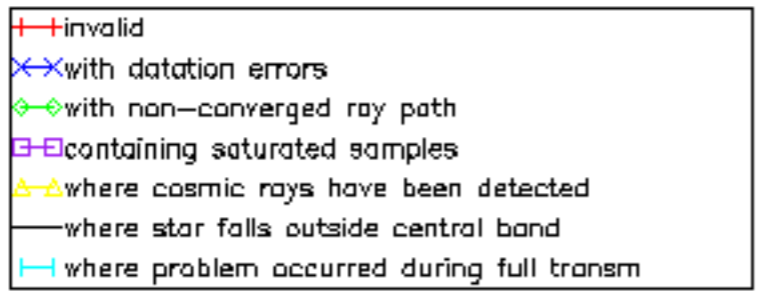


Percentage of flagged data per NO2 profile

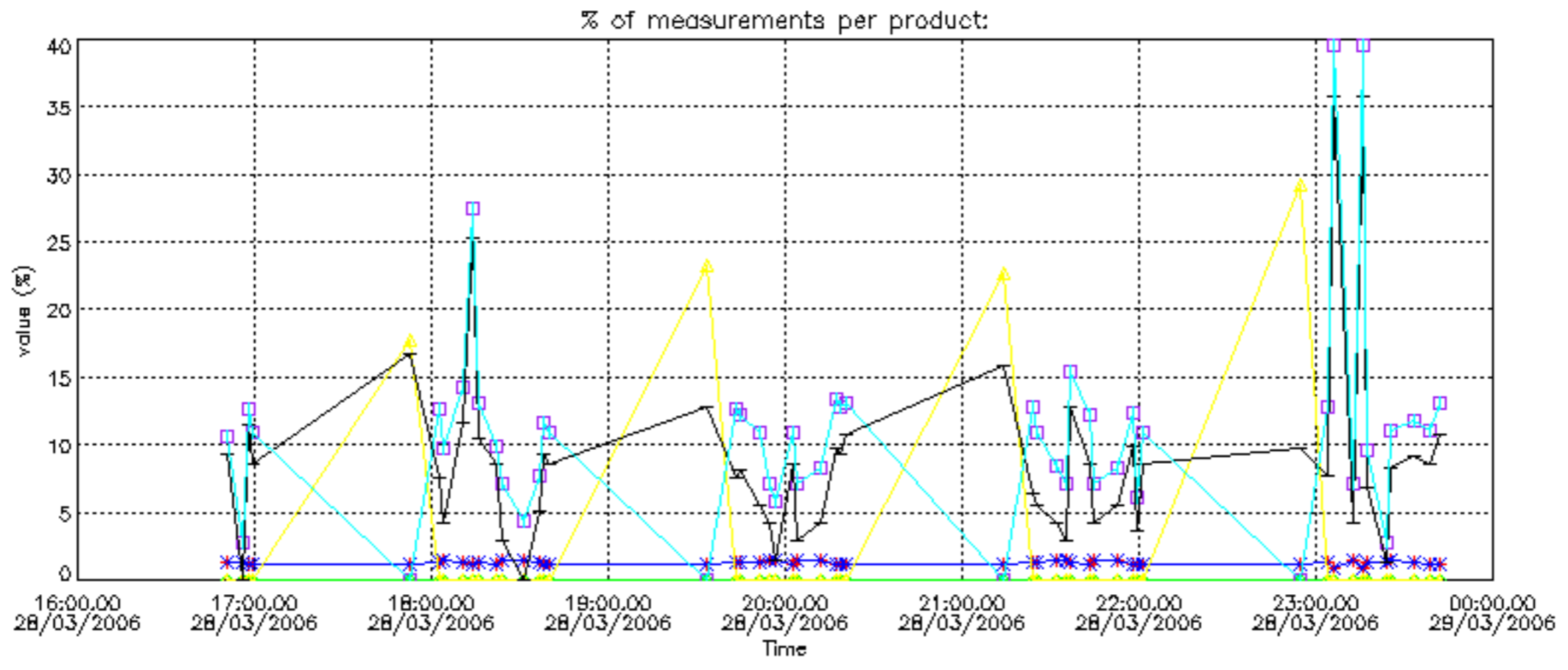


Percentage of flagged data per NO3 profile

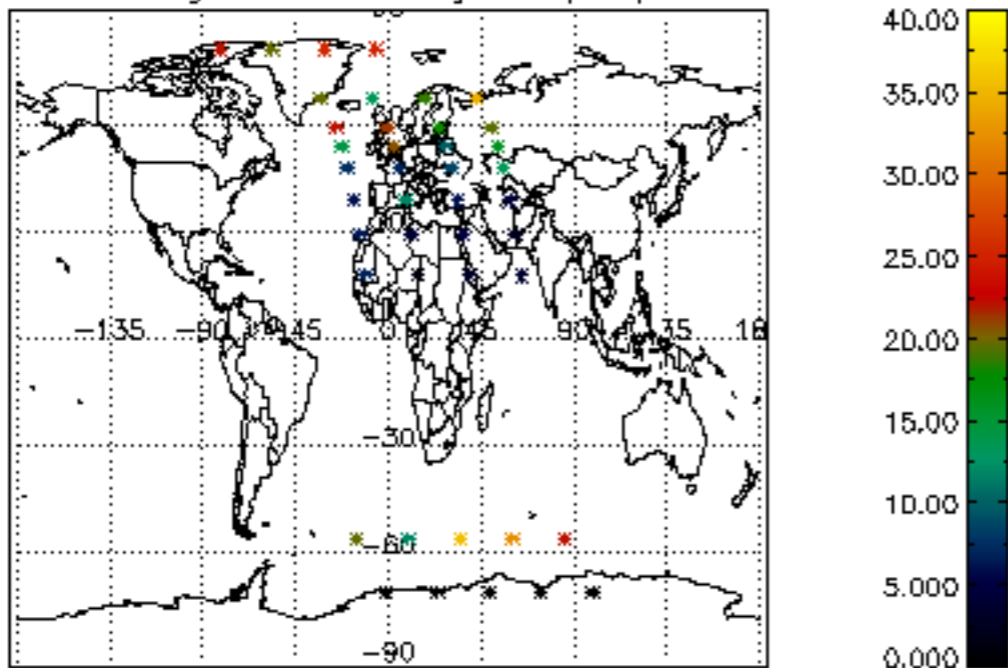




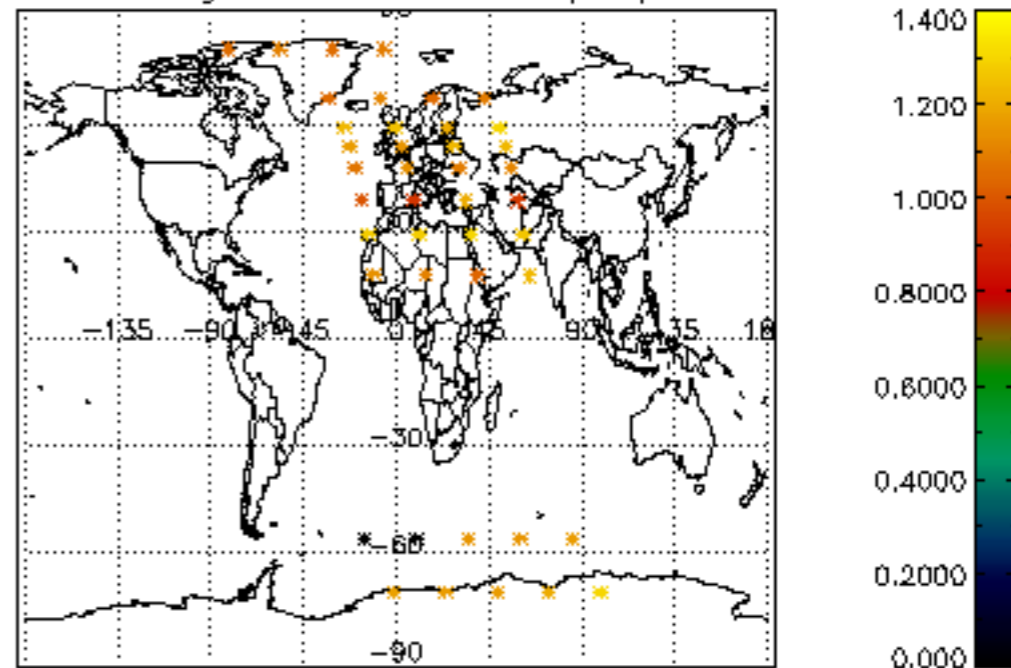




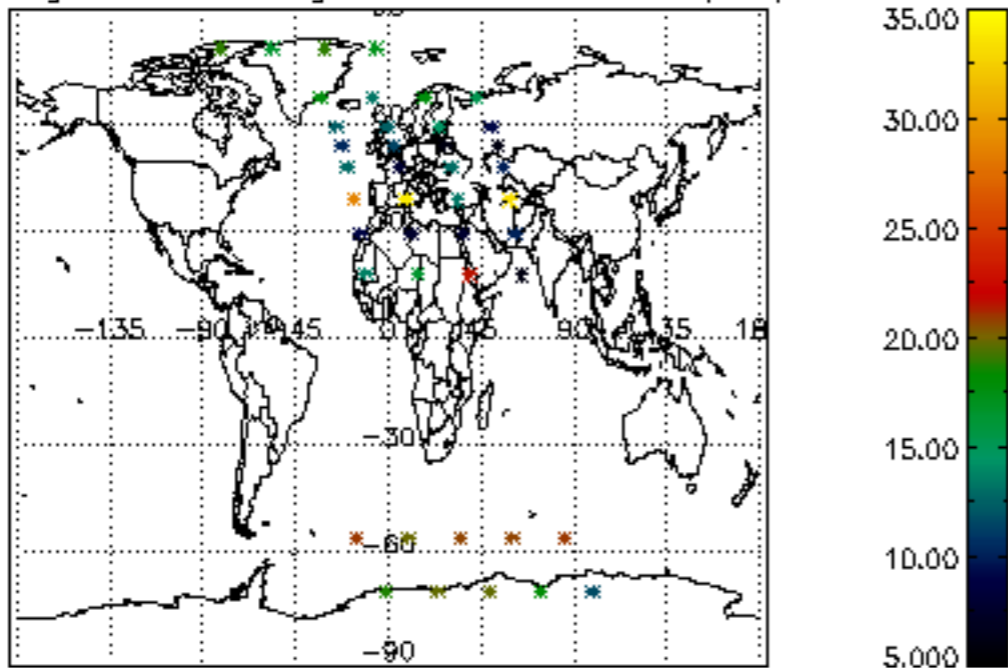
Percentage of cosmic ray hits per profile



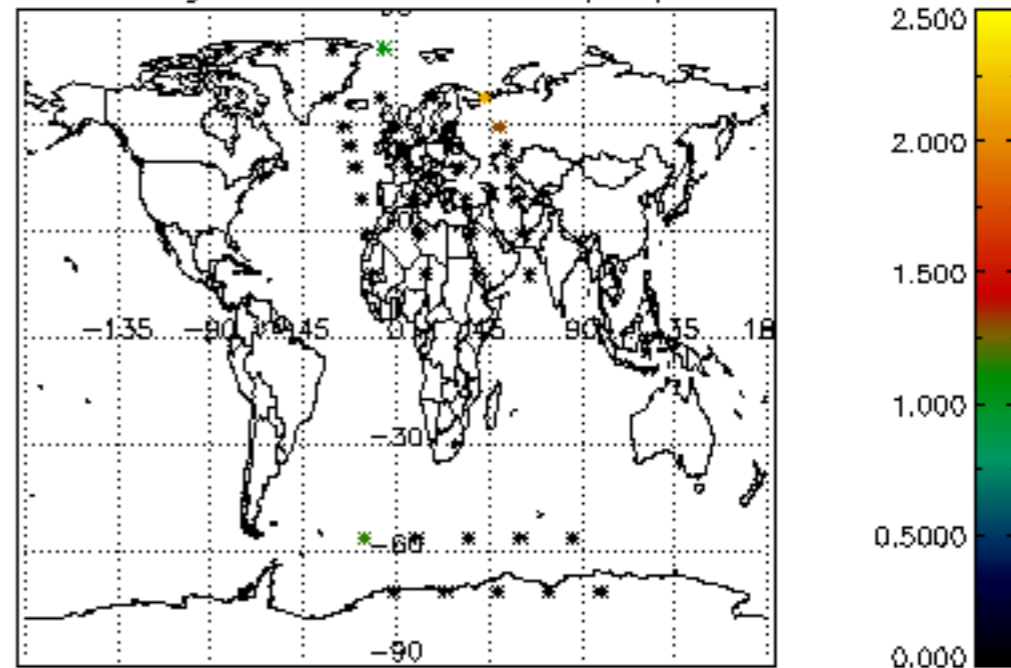
Percentage of datation errors per profile



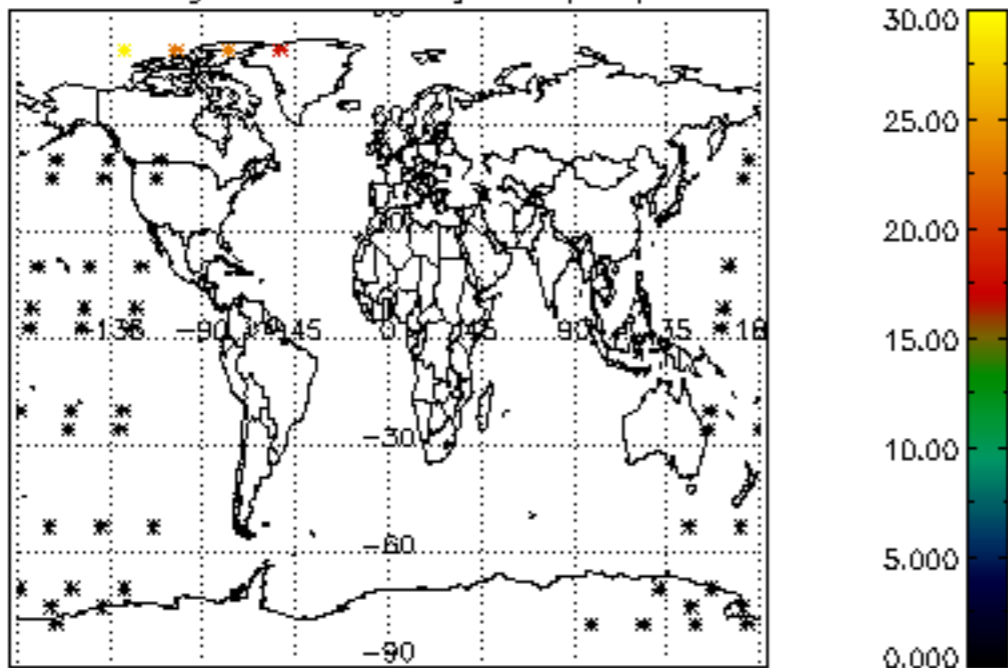
Percentage of star falling outside central band per profile



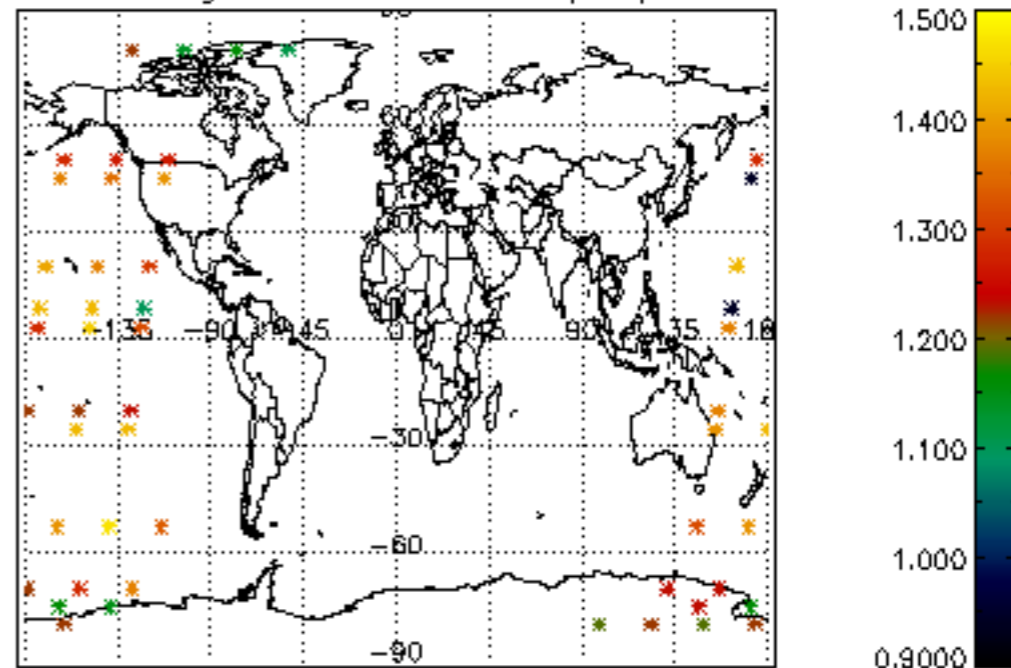
Percentage of saturation errors per profile



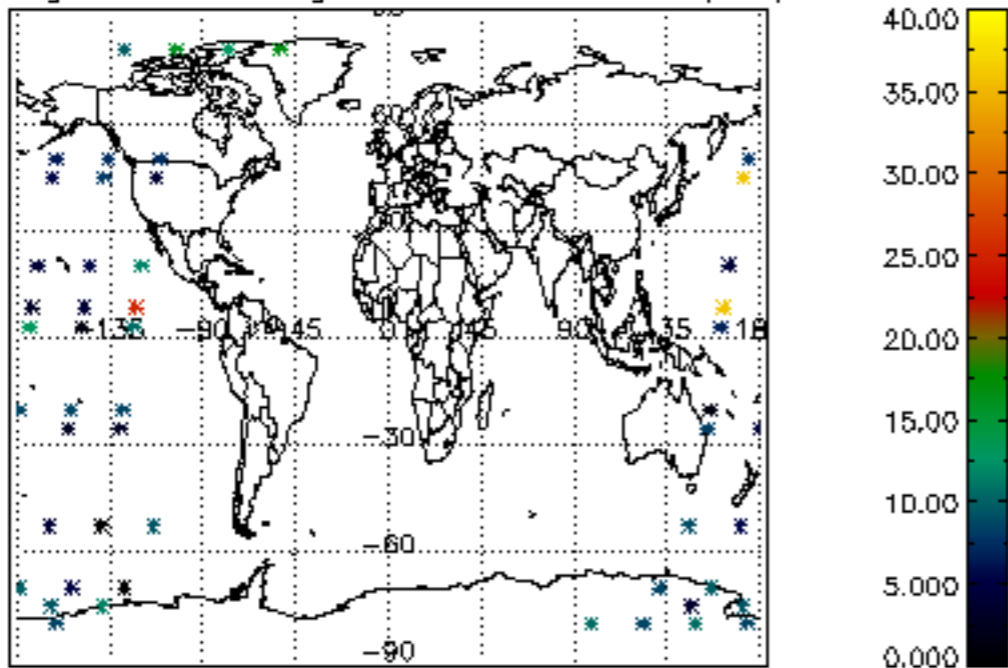
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

