

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [4.2 Plot of level 1 quality information per product \(world map\)](#)

##### [4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

##### [4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

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

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

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

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

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

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

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

### [6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	26APR2013 08:54:33
Data source version	GOMOS/6.01
Start time of products	19-04-2009 (19APR2009 00:00:00)
Stop time of products	20-04-2009 (20APR2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	171
Nb of prods with errors	0

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

**!Warning: No products without errors in BRIGHT limb contitions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090419_001203_000000312078_00174_37302_8444.N1	19-APR-2009 00:12:03	Dark	30.500	147	Alp Ara	2.8770	26000.	61	37302	No
2	GOM_NL__2PRFIN20090419_001406_000000392078_00174_37302_8445.N1	19-APR-2009 00:14:06	Straylight	39.000	25	35Lam Sco	1.6200	28000.	78	37302	No
3	GOM_NL__2PRFIN20090419_001754_000000292078_00174_37302_8446.N1	19-APR-2009 00:17:54	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37302	No
4	GOM_NL__2PRFIN20090419_001920_000000292078_00174_37302_8447.N1	19-APR-2009 00:19:20	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37302	No
5	GOM_NL__2PRFIN20090419_002914_000000322078_00174_37302_8448.N1	19-APR-2009 00:29:14	Twilight_stray	32.000	122	9Alp2Lib	2.7470	9700.0	64	37302	No
6	GOM_NL__2PRFIN20090419_004104_000000302078_00174_37302_8449.N1	19-APR-2009 00:41:04	Twilight_stray	30.000	111	8Eta Boo	2.6800	6000.0	60	37302	No
7	GOM_NL__2PRFIN20090419_004842_000000332078_00174_37302_8450.N1	19-APR-2009 00:48:42	Twilight_stray	33.000	180	27Gam Boo	3.0400	8000.0	66	37302	No
8	GOM_NL__2PRFIN20090419_005826_000000302078_00174_37302_8451.N1	19-APR-2009 00:58:26	Twilight_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37302	No
9	GOM_NL__2PRFIN20090419_011248_000000252078_00174_37302_8452.N1	19-APR-2009 01:12:48	Twilight_stray	25.000	19	50Alp Cyg	1.2460	10500.	50	37302	No
10	GOM_NL__2PRFIN20090419_011721_000000272078_00174_37302_8453.N1	19-APR-2009 01:17:21	Twilight_stray	26.500	92	53Eps Cyg	2.5000	4500.0	53	37302	No
11	GOM_NL__2PRFIN20090419_012504_000000242078_00174_37302_8454.N1	19-APR-2009 01:25:04	Dark	23.500	61	8Eps Peg	2.1000	3900.0	47	37302	No
12	GOM_NL__2PRFIN20090419_013021_000000262078_00174_37302_8455.N1	19-APR-2009 01:30:21	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37302	No
13	GOM_NL__2PRFIN20090419_015241_000000302078_00175_37303_8458.N1	19-APR-2009 01:52:41	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37303	No
14	GOM_NL__2PRFIN20090419_015443_000000432078_00175_37303_8459.N1	19-APR-2009 01:54:43	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37303	No
15	GOM_NL__2PRFIN20090419_015831_000000292078_00175_37303_8460.N1	19-APR-2009 01:58:31	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37303	No
16	GOM_NL__2PRFIN20090419_015956_000000302078_00175_37303_8461.N1	19-APR-2009 01:59:56	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37303	No
17	GOM_NL__2PRFIN20090419_020950_000000332078_00175_37303_8462.N1	19-APR-2009 02:09:50	Twilight_stray	32.500	122	9Alp2Lib	2.7470	9700.0	65	37303	No
18	GOM_NL__2PRFIN20090419_022139_000000312078_00175_37303_8463.N1	19-APR-2009 02:21:39	Twilight_stray	31.000	111	8Eta Boo	2.6800	6000.0	62	37303	No
19	GOM_NL__2PRFIN20090419_022917_000000342078_00175_37303_8464.N1	19-APR-2009 02:29:17	Twilight_stray	33.500	180	27Gam Boo	3.0400	8000.0	67	37303	No
20	GOM_NL__2PRFIN20090419_023901_000000302078_00175_37303_8465.N1	19-APR-2009 02:39:01	Twilight_stray	30.000	119	14Eta Dra	2.7270	4700.0	60	37303	No
21	GOM_NL__2PRFIN20090419_025324_000000262078_00175_37303_8466.N1	19-APR-2009 02:53:24	Twilight_stray	26.000	19	50Alp Cyg	1.2460	10500.	52	37303	No
22	GOM_NL__2PRFIN20090419_025757_000000282078_00175_37303_8467.N1	19-APR-2009 02:57:57	Twilight_stray	27.500	92	53Eps Cyg	2.5000	4500.0	55	37303	No
23	GOM_NL__2PRFIN20090419_030540_000000252078_00175_37303_8468.N1	19-APR-2009 03:05:40	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37303	No
24	GOM_NL__2PRFIN20090419_031057_000000272078_00175_37303_8469.N1	19-APR-2009 03:10:57	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37303	No
25	GOM_NL__2PRFIN20090419_033317_000000252078_00176_37304_8473.N1	19-APR-2009 03:33:17	Dark	24.500	147	Alp Ara	2.8770	26000.	49	37304	No
26	GOM_NL__2PRFIN20090419_033520_000000412078_00176_37304_8474.N1	19-APR-2009 03:35:20	Straylight	40.500	25	35Lam Sco	1.6200	28000.	81	37304	No
27	GOM_NL__2PRFIN20090419_033908_000000312078_00176_37304_8475.N1	19-APR-2009 03:39:08	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37304	No
28	GOM_NL__2PRFIN20090419_034033_000000302078_00176_37304_8476.N1	19-APR-2009 03:40:33	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37304	No
29	GOM_NL__2PRFIN20090419_035027_000000332078_00176_37304_8477.N1	19-APR-2009 03:50:27	Twilight_stray	32.500	122	9Alp2Lib	2.7470	9700.0	65	37304	No
30	GOM_NL__2PRFIN20090419_040215_000000312078_00176_37304_8478.N1	19-APR-2009 04:02:15	Twilight_stray	30.500	111	8Eta Boo	2.6800	6000.0	61	37304	No
31	GOM_NL__2PRFIN20090419_040952_000000342078_00176_37304_8479.N1	19-APR-2009 04:09:52	Twilight_stray	33.500	180	27Gam Boo	3.0400	8000.0	67	37304	No
32	GOM_NL__2PRFIN20090419_041936_000000302078_00176_37304_8480.N1	19-APR-2009 04:19:36	Twilight_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37304	No
33	GOM_NL__2PRFIN20090419_043400_000000262078_00176_37304_8481.N1	19-APR-2009 04:34:00	Twilight_stray	25.500	19	50Alp Cyg	1.2460	10500.	51	37304	No
34	GOM_NL__2PRFIN20090419_043833_000000272078_00176_37304_8482.N1	19-APR-2009 04:38:33	Twilight_stray	27.000	92	53Eps Cyg	2.5000	4500.0	54	37304	No
35	GOM_NL__2PRFIN20090419_044617_000000252078_00176_37304_8483.N1	19-APR-2009 04:46:17	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37304	No
36	GOM_NL__2PRFIN20090419_045134_000000272078_00176_37304_8484.N1	19-APR-2009 04:51:34	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37304	No
37	GOM_NL__2PRFIN20090419_051354_000000312078_00177_37305_8507.N1	19-APR-2009 05:13:54	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37305	No
38	GOM_NL__2PRFIN20090419_051558_000000402078_00177_37305_8508.N1	19-APR-2009 05:15:58	Straylight	39.500	25	35Lam Sco	1.6200	28000.	79	37305	No
39	GOM_NL__2PRFIN20090419_051945_000000312078_00177_37305_8509.N1	19-APR-2009 05:19:45	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37305	No
40	GOM_NL__2PRFIN20090419_052110_000000292078_00177_37305_8510.N1	19-APR-2009 05:21:10	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37305	No
41	GOM_NL__2PRFIN20090419_053103_000000322078_00177_37305_8511.N1	19-APR-2009 05:31:03	Twilight_stray	32.000	122	9Alp2Lib	2.7470	9700.0	64	37305	No

42	GOM_NL__2PRFIN20090419_054251_000000312078_00177_37305_8512.N1	19-APR-2009 05:42:51	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37305	No
43	GOM_NL__2PRFIN20090419_055028_000000332078_00177_37305_8513.N1	19-APR-2009 05:50:28	Twilight	33.000	180	27Gam Boo	3.0400	8000.0	66	37305	No
44	GOM_NL__2PRFIN20090419_060011_000000302078_00177_37305_8514.N1	19-APR-2009 06:00:11	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37305	No
45	GOM_NL__2PRFIN20090419_061435_000000262078_00177_37305_8515.N1	19-APR-2009 06:14:35	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37305	No
46	GOM_NL__2PRFIN20090419_061909_000000272078_00177_37305_8516.N1	19-APR-2009 06:19:09	Twilight	27.000	92	53Eps Cyg	2.5000	4500.0	54	37305	No
47	GOM_NL__2PRFIN20090419_062654_000000252078_00177_37305_8517.N1	19-APR-2009 06:26:54	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37305	No
48	GOM_NL__2PRFIN20090419_063211_000000272078_00177_37305_8518.N1	19-APR-2009 06:32:11	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37305	No
49	GOM_NL__2PRFIN20090419_065431_000000322078_00178_37306_8521.N1	19-APR-2009 06:54:31	Dark	31.500	147	Alp Ara	2.8770	26000.	63	37306	No
50	GOM_NL__2PRFIN20090419_065635_000000402078_00178_37306_8522.N1	19-APR-2009 06:56:35	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37306	No
51	GOM_NL__2PRFIN20090419_070022_000000332078_00178_37306_8523.N1	19-APR-2009 07:00:22	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37306	No
52	GOM_NL__2PRFIN20090419_070146_000000302078_00178_37306_8524.N1	19-APR-2009 07:01:46	Straylight	29.500	131	Gam Lup	2.8000	26000.	59	37306	No
53	GOM_NL__2PRFIN20090419_071139_000000322078_00178_37306_8525.N1	19-APR-2009 07:11:39	Twilight	31.500	122	9Alp2Lib	2.7470	9700.0	63	37306	No
54	GOM_NL__2PRFIN20090419_072326_000000302078_00178_37306_8526.N1	19-APR-2009 07:23:26	Twilight	30.000	111	8Eta Boo	2.6800	6000.0	60	37306	No
55	GOM_NL__2PRFIN20090419_073103_000000342078_00178_37306_8527.N1	19-APR-2009 07:31:03	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37306	No
56	GOM_NL__2PRFIN20090419_074047_000000302078_00178_37306_8528.N1	19-APR-2009 07:40:47	Twilight	30.000	119	14Eta Dra	2.7270	4700.0	60	37306	No
57	GOM_NL__2PRFIN20090419_075511_000000262078_00178_37306_8529.N1	19-APR-2009 07:55:11	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37306	No
58	GOM_NL__2PRFIN20090419_075945_000000272078_00178_37306_8530.N1	19-APR-2009 07:59:45	Twilight	27.000	92	53Eps Cyg	2.5000	4500.0	54	37306	No
59	GOM_NL__2PRFIN20090419_080730_000000242078_00178_37306_8531.N1	19-APR-2009 08:07:30	Dark	24.000	61	8Eps Peg	2.1000	3900.0	48	37306	No
60	GOM_NL__2PRFIN20090419_081248_000000272078_00178_37306_8532.N1	19-APR-2009 08:12:48	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37306	No
61	GOM_NL__2PRFIN20090419_083507_000000312078_00179_37307_8535.N1	19-APR-2009 08:35:07	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37307	No
62	GOM_NL__2PRFIN20090419_083712_000000402078_00179_37307_8536.N1	19-APR-2009 08:37:12	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37307	No
63	GOM_NL__2PRFIN20090419_084059_000000332078_00179_37307_8537.N1	19-APR-2009 08:40:59	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37307	No
64	GOM_NL__2PRFIN20090419_084223_000000302078_00179_37307_8538.N1	19-APR-2009 08:42:23	Straylight	29.500	131	Gam Lup	2.8000	26000.	59	37307	No
65	GOM_NL__2PRFIN20090419_085215_000000322078_00179_37307_8539.N1	19-APR-2009 08:52:15	Twilight	31.500	122	9Alp2Lib	2.7470	9700.0	63	37307	No
66	GOM_NL__2PRFIN20090419_090402_000000312078_00179_37307_8540.N1	19-APR-2009 09:04:02	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37307	No
67	GOM_NL__2PRFIN20090419_091138_000000342078_00179_37307_8541.N1	19-APR-2009 09:11:38	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37307	No
68	GOM_NL__2PRFIN20090419_092122_000000302078_00179_37307_8542.N1	19-APR-2009 09:21:22	Twilight	30.000	119	14Eta Dra	2.7270	4700.0	60	37307	No
69	GOM_NL__2PRFIN20090419_093547_000000262078_00179_37307_8543.N1	19-APR-2009 09:35:47	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37307	No
70	GOM_NL__2PRFIN20090419_094021_000000282078_00179_37307_8544.N1	19-APR-2009 09:40:21	Twilight	27.500	92	53Eps Cyg	2.5000	4500.0	55	37307	No
71	GOM_NL__2PRFIN20090419_094806_000000252078_00179_37307_8545.N1	19-APR-2009 09:48:06	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37307	No
72	GOM_NL__2PRFIN20090419_095324_000000272078_00179_37307_8546.N1	19-APR-2009 09:53:24	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37307	No
73	GOM_NL__2PRFIN20090419_101544_000000312078_00180_37308_8549.N1	19-APR-2009 10:15:44	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37308	No
74	GOM_NL__2PRFIN20090419_101749_000000392078_00180_37308_8550.N1	19-APR-2009 10:17:49	Straylight	39.000	25	35Lam Sco	1.6200	28000.	78	37308	No
75	GOM_NL__2PRFIN20090419_102135_000000342078_00180_37308_8551.N1	19-APR-2009 10:21:35	Straylight	34.000	75	26Eps Sco	2.2910	4250.0	68	37308	No
76	GOM_NL__2PRFIN20090419_102259_000000292078_00180_37308_8552.N1	19-APR-2009 10:22:59	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37308	No
77	GOM_NL__2PRFIN20090419_103251_000000312078_00180_37308_8553.N1	19-APR-2009 10:32:51	Twilight	31.000	122	9Alp2Lib	2.7470	9700.0	62	37308	No
78	GOM_NL__2PRFIN20090419_104437_000000302078_00180_37308_8554.N1	19-APR-2009 10:44:37	Twilight	30.000	111	8Eta Boo	2.6800	6000.0	60	37308	No
79	GOM_NL__2PRFIN20090419_105213_000000332078_00180_37308_8555.N1	19-APR-2009 10:52:13	Twilight	32.500	180	27Gam Boo	3.0400	8000.0	65	37308	No
80	GOM_NL__2PRFIN20090419_110157_000000302078_00180_37308_8556.N1	19-APR-2009 11:01:57	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37308	No
81	GOM_NL__2PRFIN20090419_111623_000000252078_00180_37308_8557.N1	19-APR-2009 11:16:23	Twilight	25.000	19	50Alp Cyg	1.2460	10500.	50	37308	No
82	GOM_NL__2PRFIN20090419_112057_000000272078_00180_37308_8558.N1	19-APR-2009 11:20:57	Twilight	26.500	92	53Eps Cyg	2.5000	4500.0	53	37308	No
83	GOM_NL__2PRFIN20090419_112843_000000242078_00180_37308_8559.N1	19-APR-2009 11:28:43	Dark	24.000	61	8Eps Peg	2.1000	3900.0	48	37308	No
84	GOM_NL__2PRFIN20090419_113401_000000272078_00180_37308_8560.N1	19-APR-2009 11:34:01	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37308	No
85	GOM_NL__2PRFIN20090419_115621_000000342078_00181_37309_8563.N1	19-APR-2009 11:56:21	Dark	33.500	147	Alp Ara	2.8770	26000.	67	37309	No
86	GOM_NL__2PRFIN20090419_115826_000000382078_00181_37309_8564.N1	19-APR-2009 11:58:26	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37309	No
87	GOM_NL__2PRFIN20090419_120212_000000342078_00181_37309_8565.N1	19-APR-2009 12:02:12	Straylight	34.000	75	26Eps Sco	2.2910	4250.0	68	37309	No
88	GOM_NL__2PRFIN20090419_120335_000000282078_00181_37309_8566.N1	19-APR-2009 12:03:35	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37309	No
89	GOM_NL__2PRFIN20090419_121327_000000302078_00181_37309_8567.N1	19-APR-2009 12:13:27	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37309	No
90	GOM_NL__2PRFIN20090419_122513_000000282078_00181_37309_8568.N1	19-APR-2009 12:25:13	Twilight	28.000	111	8Eta Boo	2.6800	6000.0	56	37309	No
91	GOM_NL__2PRFIN20090419_123248_000000312078_00181_37309_8569.N1	19-APR-2009 12:32:48	Twilight	31.000	180	27Gam Boo	3.0400	8000.0	62	37309	No
92	GOM_NL__2PRFIN20090419_124232_000000282078_00181_37309_8570.N1	19-APR-2009 12:42:32	Twilight	28.000	119	14Eta Dra	2.7270	4700.0	56	37309	No
93	GOM_NL__2PRFIN20090419_125658_000000232078_00181_37309_8571.N1	19-APR-2009 12:56:58	Twilight	23.000	19	50Alp Cyg	1.2460	10500.	46	37309	No
94	GOM_NL__2PRFIN20090419_130133_000000252078_00181_37309_8572.N1	19-APR-2009 13:01:33	Twilight	24.500	92	53Eps Cyg	2.5000	4500.0	49	37309	No
95	GOM_NL__2PRFIN20090419_130919_000000222078_00181_37309_8573.N1	19-APR-2009 13:09:19	Dark	22.000	61	8Eps Peg	2.1000	3900.0	44	37309	No
96	GOM_NL__2PRFIN20090419_131438_000000252078_00181_37309_8574.N1	19-APR-2009 13:14:38	Dark	24.500	154	22Bet Aqr	2.8990	5700.0	49	37309	No
97	GOM_NL__2PRFIN20090419_133658_000000302078_00182_37310_8577.N1	19-APR-2009 13:36:58	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37310	No
98	GOM_NL__2PRFIN20090419_133904_000000422078_00182_37310_8578.N1	19-APR-2009 13:39:04	Straylight	41.500	25	35Lam Sco	1.6200	28000.	83	37310	No
99	GOM_NL__2PRFIN20090419_134249_000000362078_00182_37310_8579.N1	19-APR-2009 13:42:49	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37310	No
100	GOM_NL__2PRFIN20090419_134412_000000282078_00182_37310_8580.N1	19-APR-2009 13:44:12	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37310	No

101	GOM_NL__2PRFIN20090419_135403_000000312078_00182_37310_8581.N1	19-APR-2009 13:54:03	Twi_and_stray	30.500	122	9Alp2Lib	2.7470	9700.0	61	37310	No
102	GOM_NL__2PRFIN20090419_140548_000000292078_00182_37310_8582.N1	19-APR-2009 14:05:48	Twi_and_stray	28.500	111	8Eta Boo	2.6800	6000.0	57	37310	No
103	GOM_NL__2PRFIN20090419_141323_000000322078_00182_37310_8583.N1	19-APR-2009 14:13:23	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37310	No
104	GOM_NL__2PRFIN20090419_142307_000000292078_00182_37310_8584.N1	19-APR-2009 14:23:07	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37310	No
105	GOM_NL__2PRFIN20090419_143734_000000242078_00182_37310_8585.N1	19-APR-2009 14:37:34	Twi_and_stray	24.000	19	50Alp Cyg	1.2460	10500.	48	37310	No
106	GOM_NL__2PRFIN20090419_144209_000000292078_00182_37310_8586.N1	19-APR-2009 14:42:09	Twi_and_stray	28.500	92	53Eps Cyg	2.5000	4500.0	57	37310	No
107	GOM_NL__2PRFIN20090419_144956_000000232078_00182_37310_8587.N1	19-APR-2009 14:49:56	Dark	23.000	61	8Eps Peg	2.1000	3900.0	46	37310	No
108	GOM_NL__2PRFIN20090419_145514_000000262078_00182_37310_8588.N1	19-APR-2009 14:55:14	Dark	25.500	154	22Bet Aqr	2.8990	5700.0	51	37310	No
109	GOM_NL__2PRFIN20090419_151735_000000302078_00183_37311_8592.N1	19-APR-2009 15:17:35	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37311	No
110	GOM_NL__2PRFIN20090419_151941_000000402078_00183_37311_8593.N1	19-APR-2009 15:19:41	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37311	No
111	GOM_NL__2PRFIN20090419_152327_000000362078_00183_37311_8594.N1	19-APR-2009 15:23:27	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37311	No
112	GOM_NL__2PRFIN20090419_152449_000000282078_00183_37311_8595.N1	19-APR-2009 15:24:49	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37311	No
113	GOM_NL__2PRFIN20090419_153439_000000312078_00183_37311_8596.N1	19-APR-2009 15:34:39	Twi_and_stray	30.500	122	9Alp2Lib	2.7470	9700.0	61	37311	No
114	GOM_NL__2PRFIN20090419_154624_000000292078_00183_37311_8597.N1	19-APR-2009 15:46:24	Twi_and_stray	28.500	111	8Eta Boo	2.6800	6000.0	57	37311	No
115	GOM_NL__2PRFIN20090419_155358_000000322078_00183_37311_8598.N1	19-APR-2009 15:53:58	Twi_and_stray	32.000	180	27Gam Boo	3.0400	8000.0	64	37311	No
116	GOM_NL__2PRFIN20090419_160343_000000292078_00183_37311_8599.N1	19-APR-2009 16:03:43	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37311	No
117	GOM_NL__2PRFIN20090419_161810_000000242078_00183_37311_8600.N1	19-APR-2009 16:18:10	Twi_and_stray	24.000	19	50Alp Cyg	1.2460	10500.	48	37311	No
118	GOM_NL__2PRFIN20090419_162245_000000262078_00183_37311_8601.N1	19-APR-2009 16:22:45	Twi_and_stray	26.000	92	53Eps Cyg	2.5000	4500.0	52	37311	No
119	GOM_NL__2PRFIN20090419_163032_000000232078_00183_37311_8602.N1	19-APR-2009 16:30:32	Dark	23.000	61	8Eps Peg	2.1000	3900.0	46	37311	No
120	GOM_NL__2PRFIN20090419_163551_000000262078_00183_37311_8603.N1	19-APR-2009 16:35:51	Dark	25.500	154	22Bet Aqr	2.8990	5700.0	51	37311	No
121	GOM_NL__2PRFIN20090419_165812_000000302078_00184_37312_8607.N1	19-APR-2009 16:58:12	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37312	No
122	GOM_NL__2PRFIN20090419_170018_000000402078_00184_37312_8608.N1	19-APR-2009 17:00:18	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37312	No
123	GOM_NL__2PRFIN20090419_170403_000000382078_00184_37312_8609.N1	19-APR-2009 17:04:03	Straylight	38.000	75	26Eps Sco	2.2910	4250.0	76	37312	No
124	GOM_NL__2PRFIN20090419_170525_000000282078_00184_37312_8610.N1	19-APR-2009 17:05:25	Straylight	28.000	131	Gam Lup	2.8000	26000.	56	37312	No
125	GOM_NL__2PRFIN20090419_171515_000000312078_00184_37312_8611.N1	19-APR-2009 17:15:15	Twi_and_stray	31.000	122	9Alp2Lib	2.7470	9700.0	62	37312	No
126	GOM_NL__2PRFIN20090419_172659_000000292078_00184_37312_8612.N1	19-APR-2009 17:26:59	Twi_and_stray	29.000	111	8Eta Boo	2.6800	6000.0	58	37312	No
127	GOM_NL__2PRFIN20090419_173434_000000322078_00184_37312_8613.N1	19-APR-2009 17:34:34	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37312	No
128	GOM_NL__2PRFIN20090419_174418_000000302078_00184_37312_8614.N1	19-APR-2009 17:44:18	Twi_and_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37312	No
129	GOM_NL__2PRFIN20090419_175846_000000252078_00184_37312_8615.N1	19-APR-2009 17:58:46	Twi_and_stray	24.500	19	50Alp Cyg	1.2460	10500.	49	37312	No
130	GOM_NL__2PRFIN20090419_180321_000000262078_00184_37312_8616.N1	19-APR-2009 18:03:21	Twi_and_stray	26.000	92	53Eps Cyg	2.5000	4500.0	52	37312	No
131	GOM_NL__2PRFIN20090419_181109_000000242078_00184_37312_8617.N1	19-APR-2009 18:11:09	Dark	23.500	61	8Eps Peg	2.1000	3900.0	47	37312	No
132	GOM_NL__2PRFIN20090419_181628_000000262078_00184_37312_8618.N1	19-APR-2009 18:16:28	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37312	No
133	GOM_NL__2PRFIN20090419_183848_000000322078_00185_37313_8624.N1	19-APR-2009 18:38:48	Dark	31.500	147	Alp Ara	2.8770	26000.	63	37313	No
134	GOM_NL__2PRFIN20090419_184055_000000382078_00185_37313_8625.N1	19-APR-2009 18:40:55	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37313	No
135	GOM_NL__2PRFIN20090419_184440_000000372078_00185_37313_8626.N1	19-APR-2009 18:44:40	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37313	No
136	GOM_NL__2PRFIN20090419_184602_000000282078_00185_37313_8627.N1	19-APR-2009 18:46:02	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37313	No
137	GOM_NL__2PRFIN20090419_185551_000000302078_00185_37313_8628.N1	19-APR-2009 18:55:51	Twi_and_stray	30.000	122	9Alp2Lib	2.7470	9700.0	60	37313	No
138	GOM_NL__2PRFIN20090419_190735_000000282078_00185_37313_8629.N1	19-APR-2009 19:07:35	Twi_and_stray	28.000	111	8Eta Boo	2.6800	6000.0	56	37313	No
139	GOM_NL__2PRFIN20090419_191509_000000322078_00185_37313_8630.N1	19-APR-2009 19:15:09	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37313	No
140	GOM_NL__2PRFIN20090419_192453_000000292078_00185_37313_8631.N1	19-APR-2009 19:24:53	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37313	No
141	GOM_NL__2PRFIN20090419_193921_000000242078_00185_37313_8632.N1	19-APR-2009 19:39:21	Twi_and_stray	23.500	19	50Alp Cyg	1.2460	10500.	47	37313	No
142	GOM_NL__2PRFIN20090419_194357_000000252078_00185_37313_8633.N1	19-APR-2009 19:43:57	Twi_and_stray	25.000	92	53Eps Cyg	2.5000	4500.0	50	37313	No
143	GOM_NL__2PRFIN20090419_195145_000000232078_00185_37313_8634.N1	19-APR-2009 19:51:45	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37313	No
144	GOM_NL__2PRFIN20090419_195704_000000252078_00185_37313_8635.N1	19-APR-2009 19:57:04	Dark	25.000	154	22Bet Aqr	2.8990	5700.0	50	37313	No
145	GOM_NL__2PRFIN20090419_201925_000000312078_00186_37314_8639.N1	19-APR-2009 20:19:25	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37314	No
146	GOM_NL__2PRFIN20090419_202132_000000382078_00186_37314_8640.N1	19-APR-2009 20:21:32	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37314	No
147	GOM_NL__2PRFIN20090419_202517_000000372078_00186_37314_8641.N1	19-APR-2009 20:25:17	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37314	No
148	GOM_NL__2PRFIN20090419_202638_000000282078_00186_37314_8642.N1	19-APR-2009 20:26:38	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37314	No
149	GOM_NL__2PRFIN20090419_203627_000000302078_00186_37314_8643.N1	19-APR-2009 20:36:27	Twi_and_stray	30.000	122	9Alp2Lib	2.7470	9700.0	60	37314	No
150	GOM_NL__2PRFIN20090419_204811_000000282078_00186_37314_8644.N1	19-APR-2009 20:48:11	Twi_and_stray	28.000	111	8Eta Boo	2.6800	6000.0	56	37314	No
151	GOM_NL__2PRFIN20090419_205544_000000322078_00186_37314_8645.N1	19-APR-2009 20:55:44	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37314	No
152	GOM_NL__2PRFIN20090419_210528_000000292078_00186_37314_8646.N1	19-APR-2009 21:05:28	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37314	No
153	GOM_NL__2PRFIN20090419_212433_000000252078_00186_37314_8647.N1	19-APR-2009 21:24:33	Twi_and_stray	25.000	92	53Eps Cyg	2.5000	4500.0	50	37314	No
154	GOM_NL__2PRFIN20090419_213222_000000232078_00186_37314_8648.N1	19-APR-2009 21:32:22	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37314	No
155	GOM_NL__2PRFIN20090419_213741_000000252078_00186_37314_8649.N1	19-APR-2009 21:37:41	Dark	25.000	154	22Bet Aqr	2.8990	5700.0	50	37314	No
156	GOM_NL__2PRFIN20090419_220002_000000292078_00187_37315_8676.N1	19-APR-2009 22:00:02	Dark	29.000	147	Alp Ara	2.8770	26000.	58	37315	No
157	GOM_NL__2PRFIN20090419_220209_000000372078_00187_37315_8677.N1	19-APR-2009 22:02:09	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37315	No
158	GOM_NL__2PRFIN20090419_220554_000000362078_00187_37315_8678.N1	19-APR-2009 22:05:54	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37315	No
159	GOM_NL__2PRFIN20090419_220715_000000272078_00187_37315_8679.N1	19-APR-2009 22:07:15	Straylight	27.000	131	Gam Lup	2.8000	26000.	54	37315	No

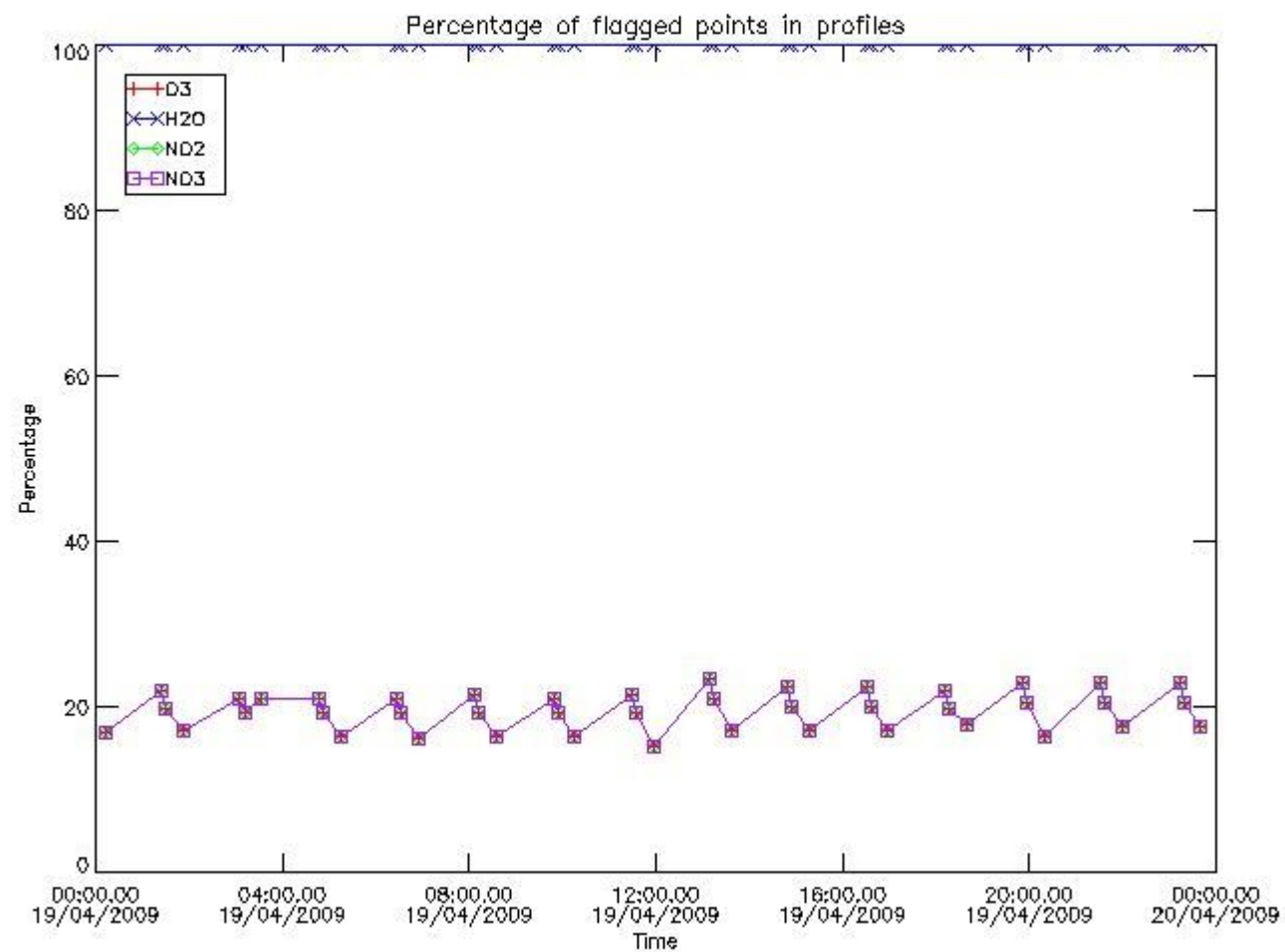


160	GOM_NL__2PRFIN20090419_221703_000000302078_00187_37315_8680.N1	19-APR-2009 22:17:03	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37315	No
161	GOM_NL__2PRFIN20090419_222846_000000282078_00187_37315_8681.N1	19-APR-2009 22:28:46	Twilight	27.500	111	8Eta Boo	2.6800	6000.0	55	37315	No
162	GOM_NL__2PRFIN20090419_223620_000000312078_00187_37315_8682.N1	19-APR-2009 22:36:20	Twilight	30.500	180	27Gam Boo	3.0400	8000.0	61	37315	No
163	GOM_NL__2PRFIN20090419_224604_000000282078_00187_37315_8683.N1	19-APR-2009 22:46:04	Twilight	28.000	119	14Eta Dra	2.7270	4700.0	56	37315	No
164	GOM_NL__2PRFIN20090419_230509_000000252078_00187_37315_8684.N1	19-APR-2009 23:05:09	Twilight	24.500	92	53Eps Cyg	2.5000	4500.0	49	37315	No
165	GOM_NL__2PRFIN20090419_231258_000000232078_00187_37315_8685.N1	19-APR-2009 23:12:58	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37315	No
166	GOM_NL__2PRFIN20090419_231818_000000252078_00187_37315_8686.N1	19-APR-2009 23:18:18	Dark	24.500	154	22Bet Aqr	2.8990	5700.0	49	37315	No
167	GOM_NL__2PRFIN20090419_234038_000000292078_00188_37316_8695.N1	19-APR-2009 23:40:38	Dark	29.000	147	Alp Ara	2.8770	26000.	58	37316	No
168	GOM_NL__2PRFIN20090419_234246_000000372078_00188_37316_8696.N1	19-APR-2009 23:42:46	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37316	No
169	GOM_NL__2PRFIN20090419_234631_000000362078_00188_37316_8697.N1	19-APR-2009 23:46:31	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37316	No
170	GOM_NL__2PRFIN20090419_234751_000000272078_00188_37316_8698.N1	19-APR-2009 23:47:51	Straylight	27.000	131	Gam Lup	2.8000	26000.	54	37316	No
171	GOM_NL__2PRFIN20090419_235739_000000302078_00188_37316_8699.N1	19-APR-2009 23:57:39	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37316	No

### 3. Quality information per product

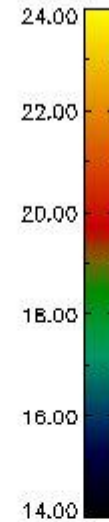
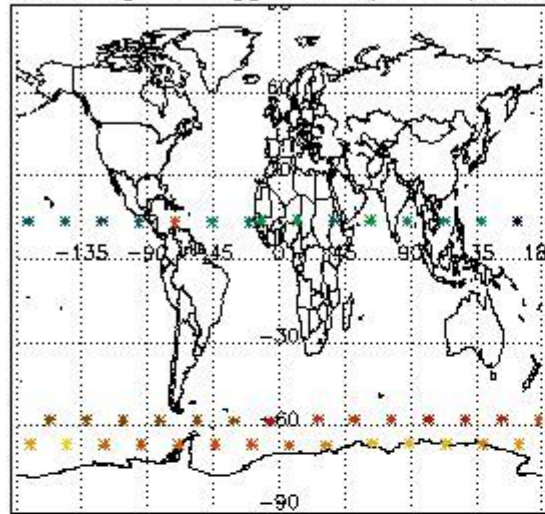
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

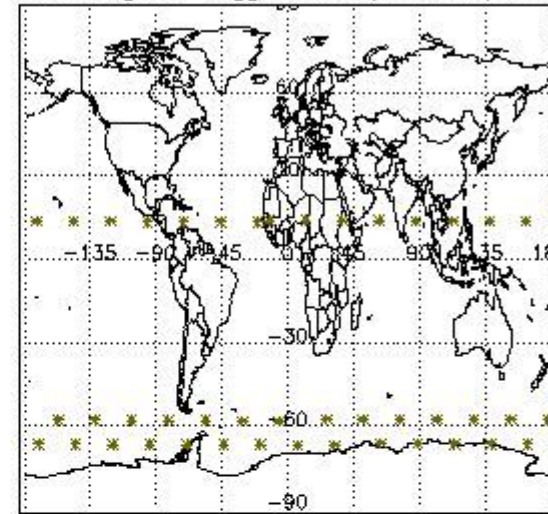


#### 3.2 Plot quality information per product (world map)

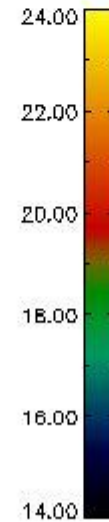
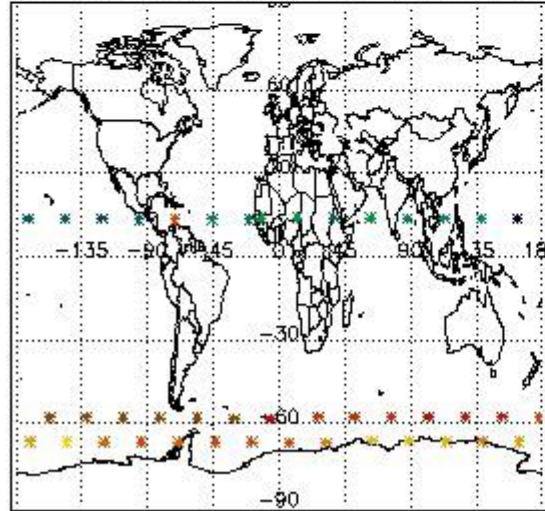
Percentage of flagged data per O3 profile



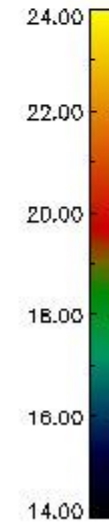
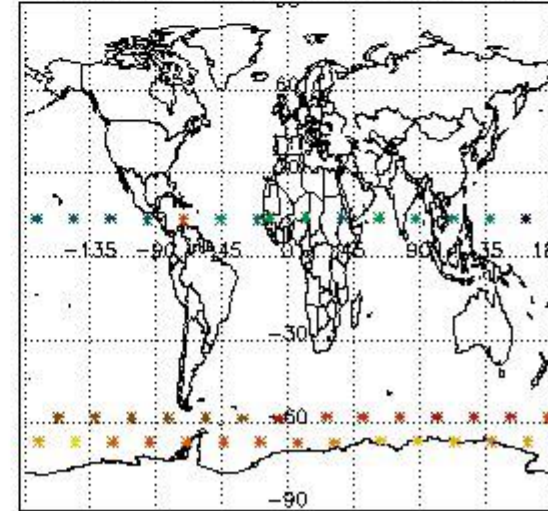
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

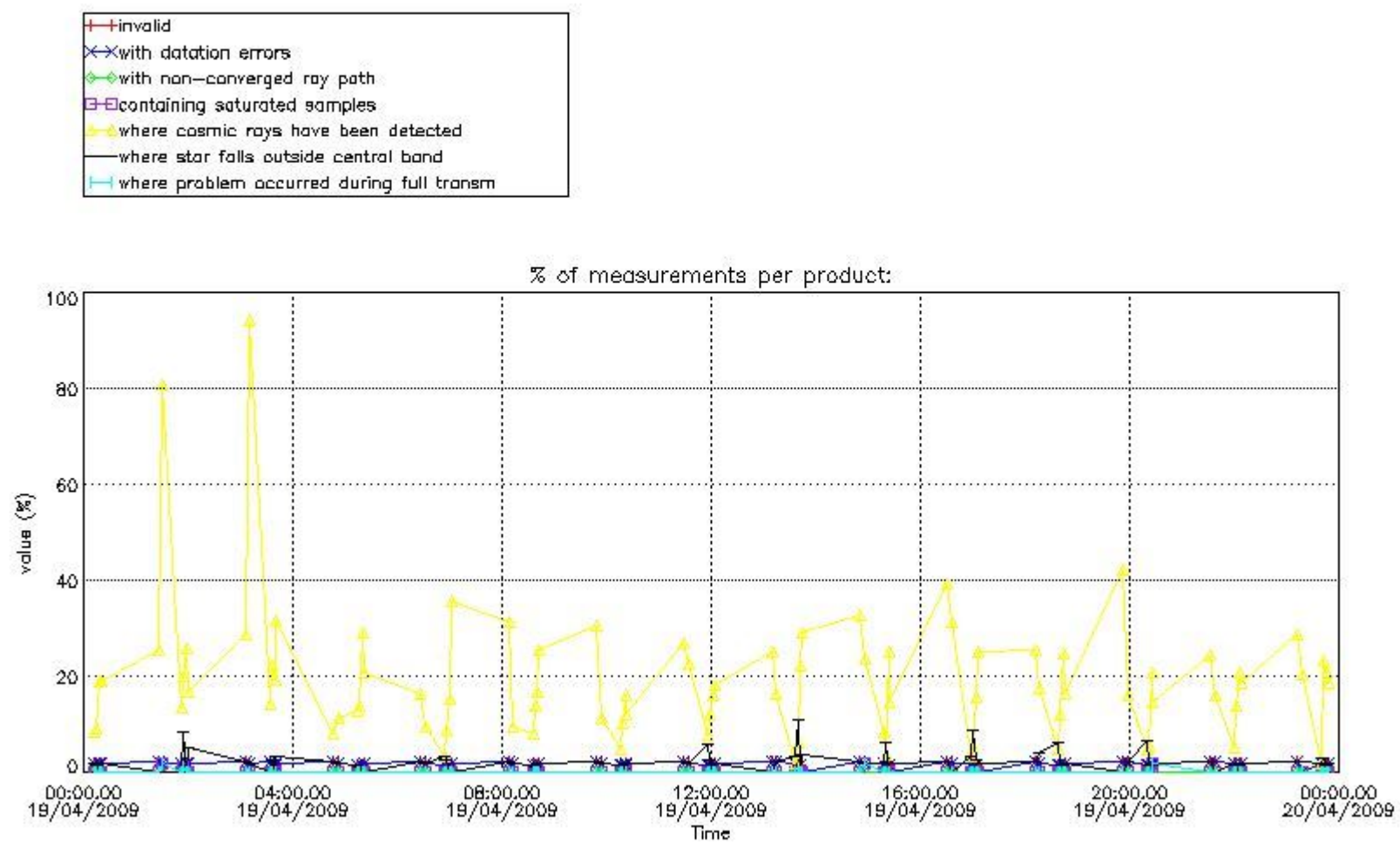


#### 4. Level 1 quality information per product

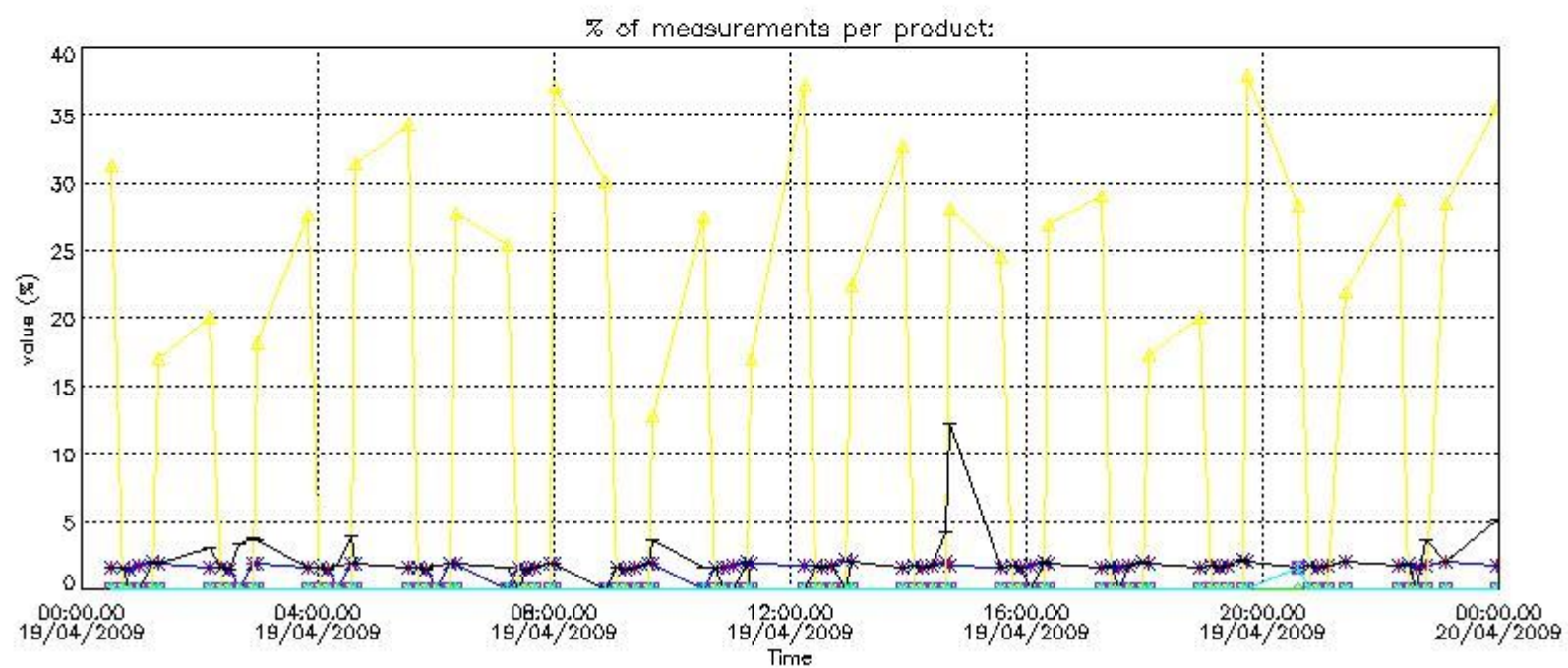
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

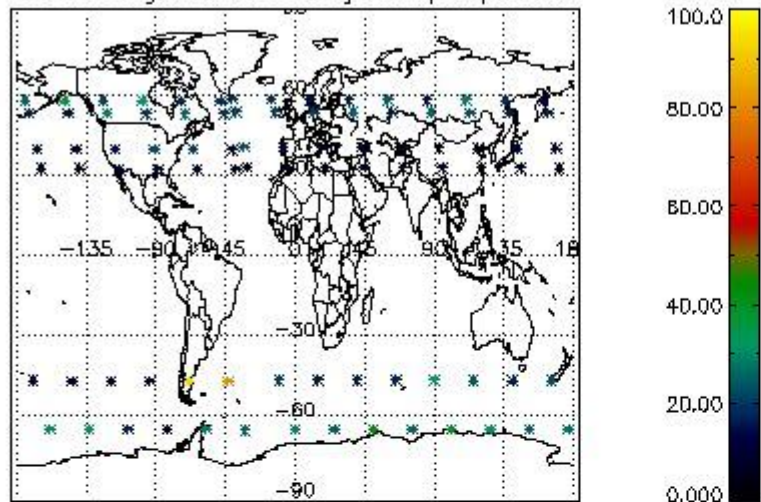


4.2 Plot quality information per product coming from level 1b processing (world map)

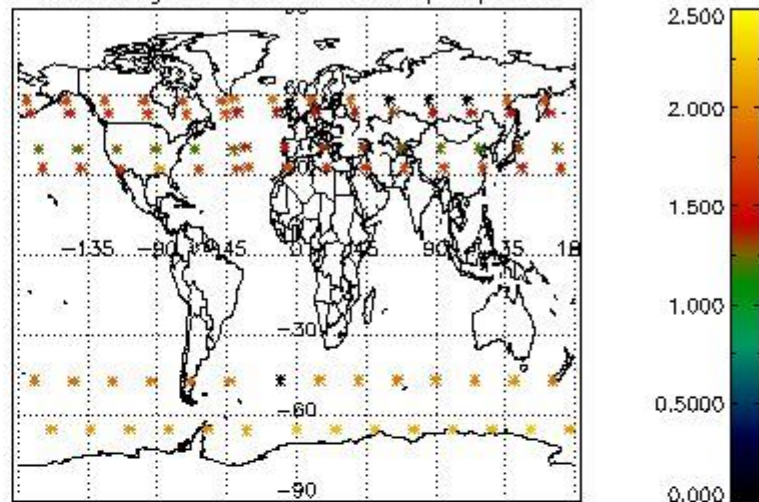
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



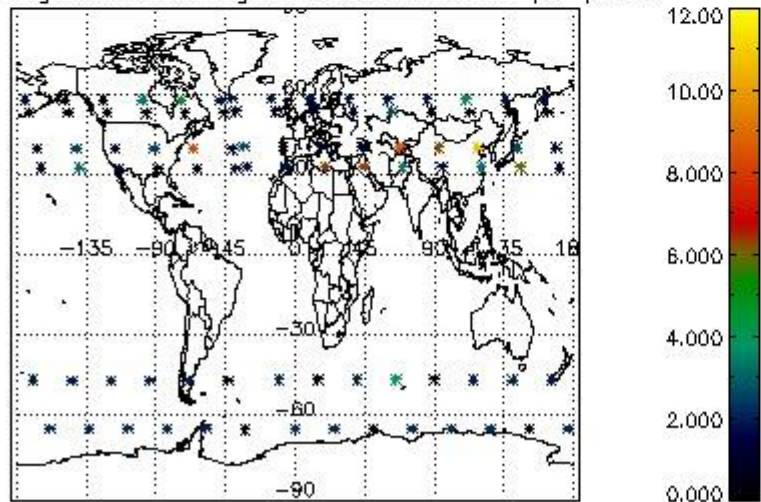
Percentage of cosmic ray hits per profile



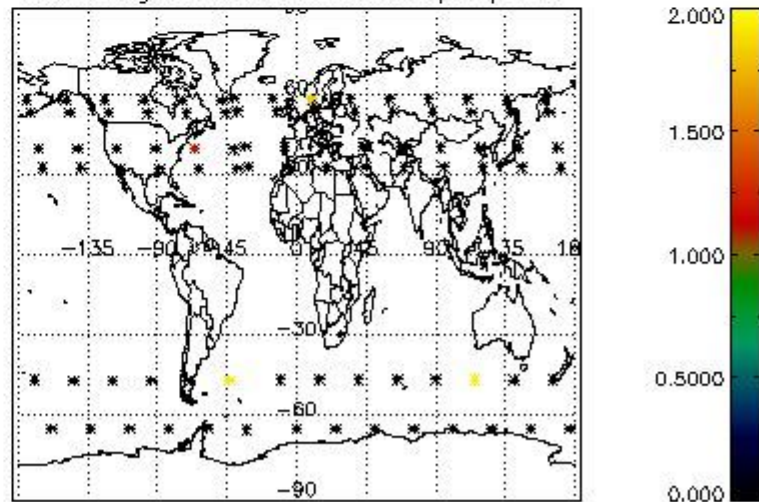
Percentage of datation errors per profile



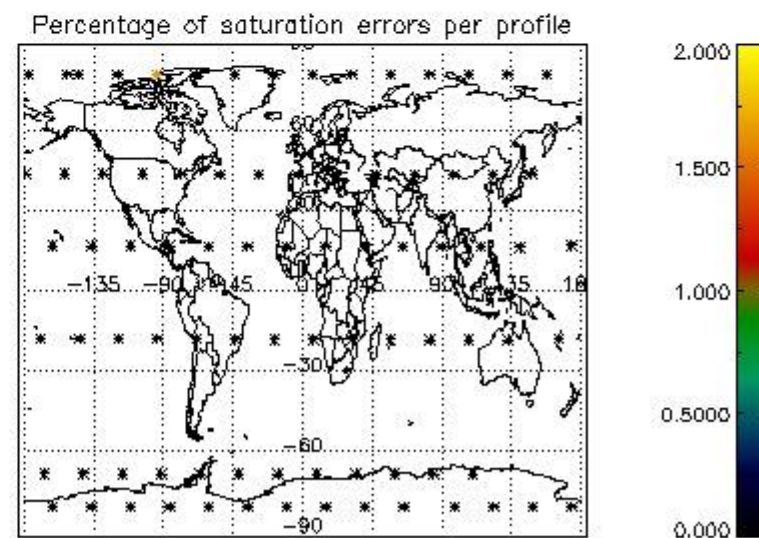
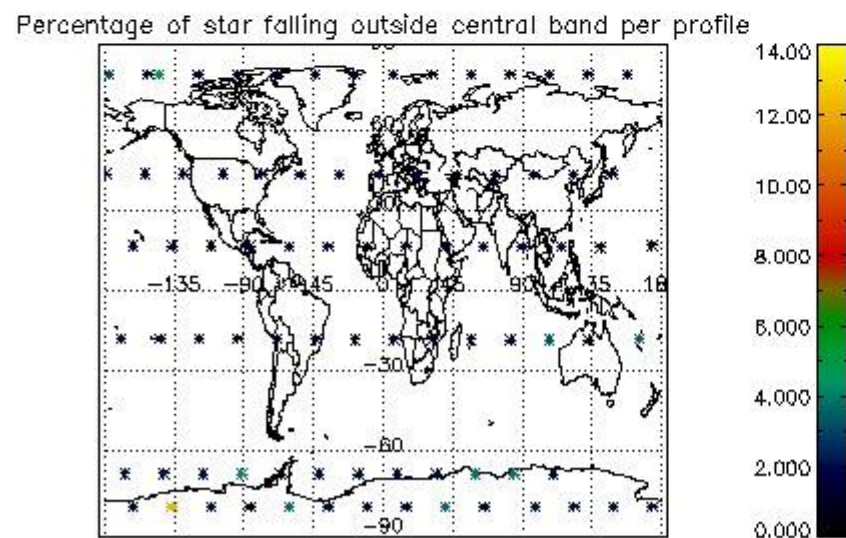
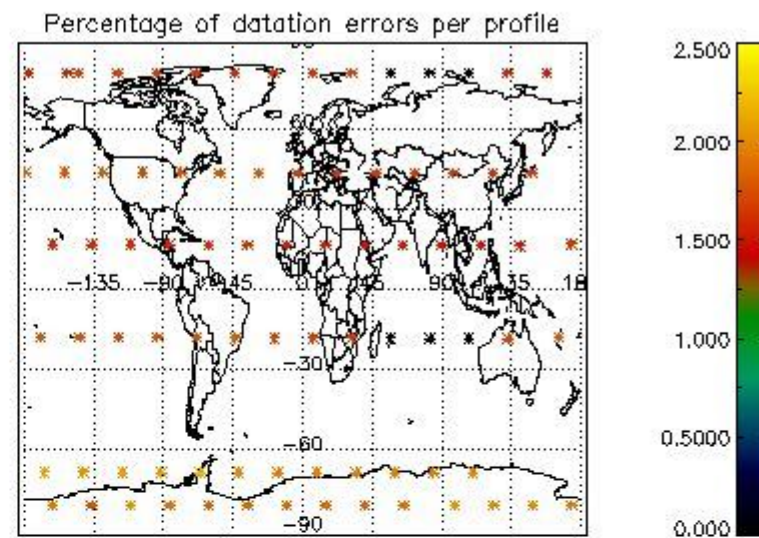
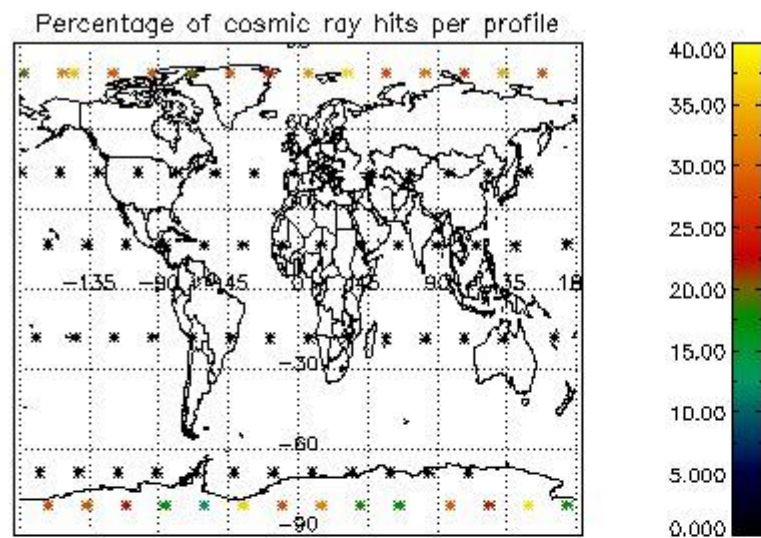
Percentage of star falling outside central band per profile



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.

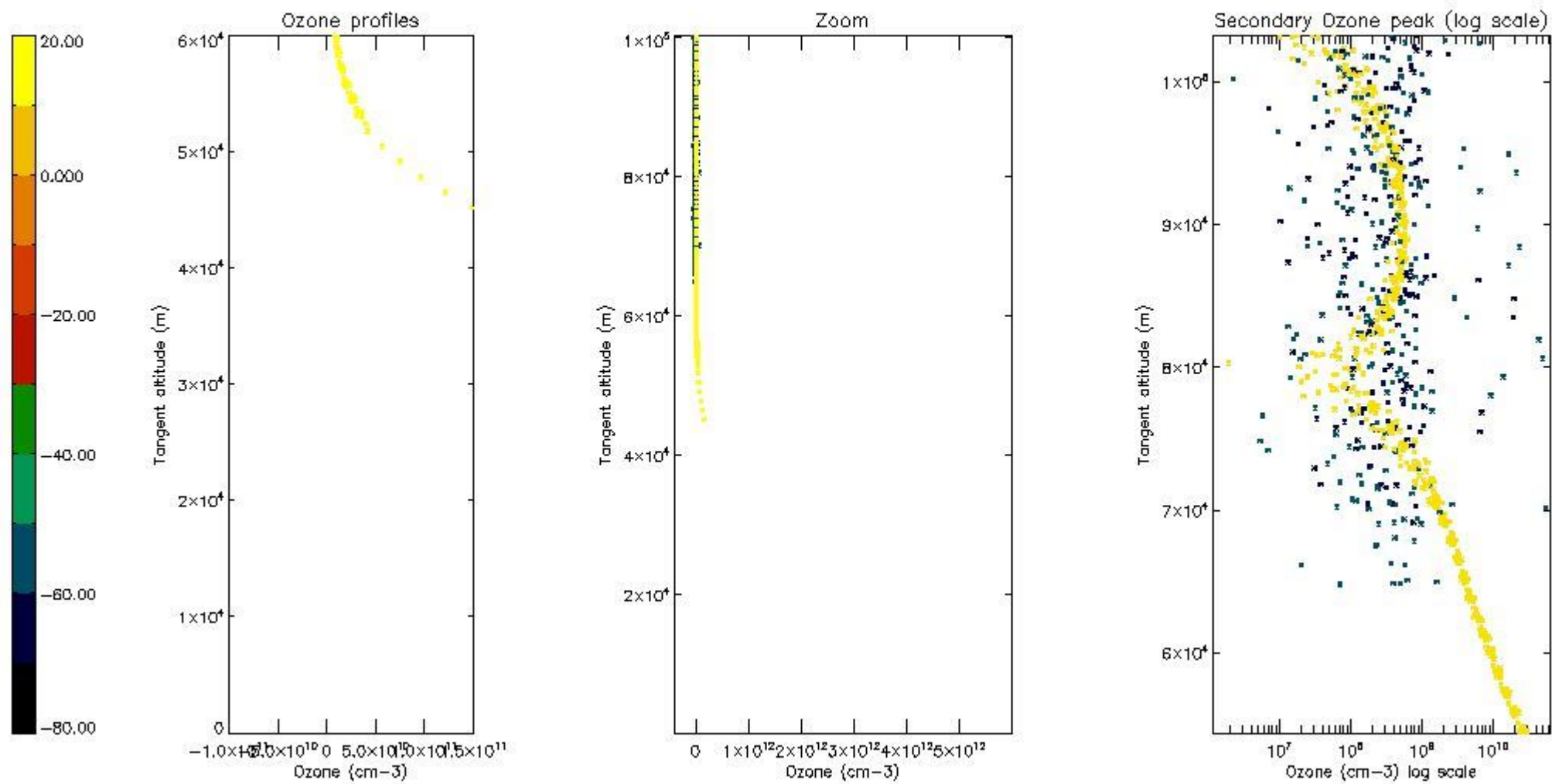
Criteria	% of total production
All STD	22
STD < 20	5



STD < 10	3
STD < 5	2

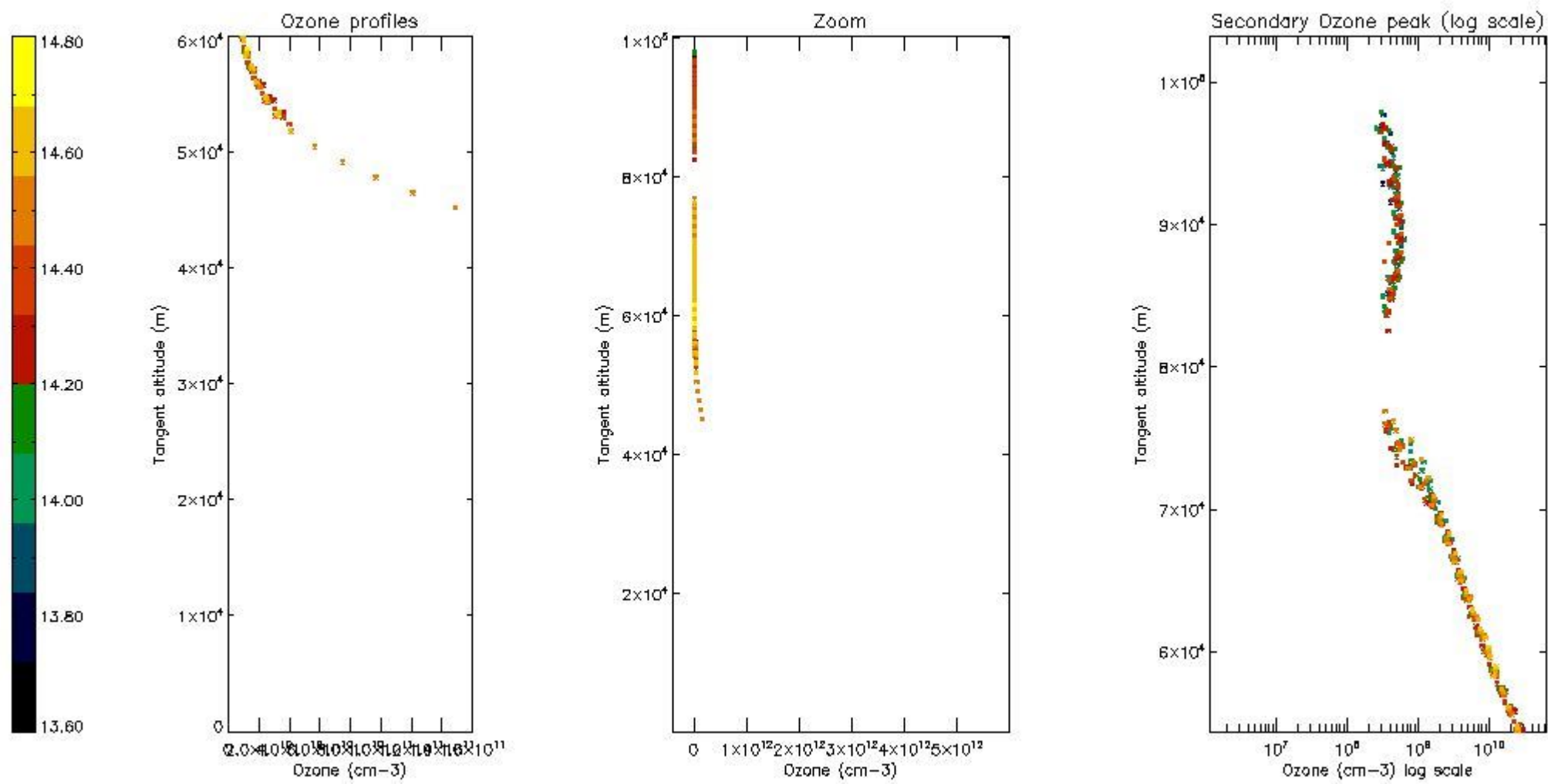
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

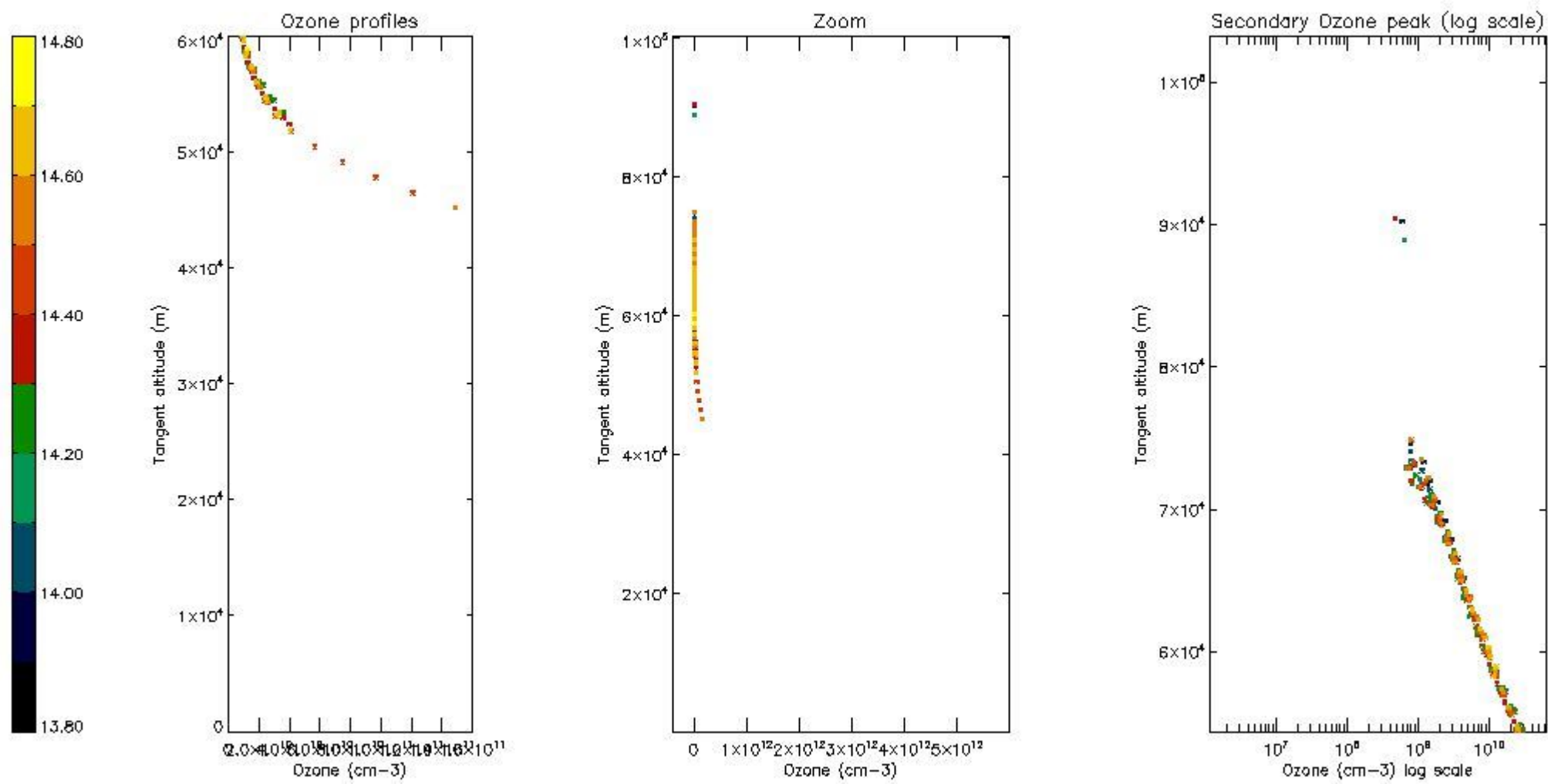
The colorbar represents the latitude.



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

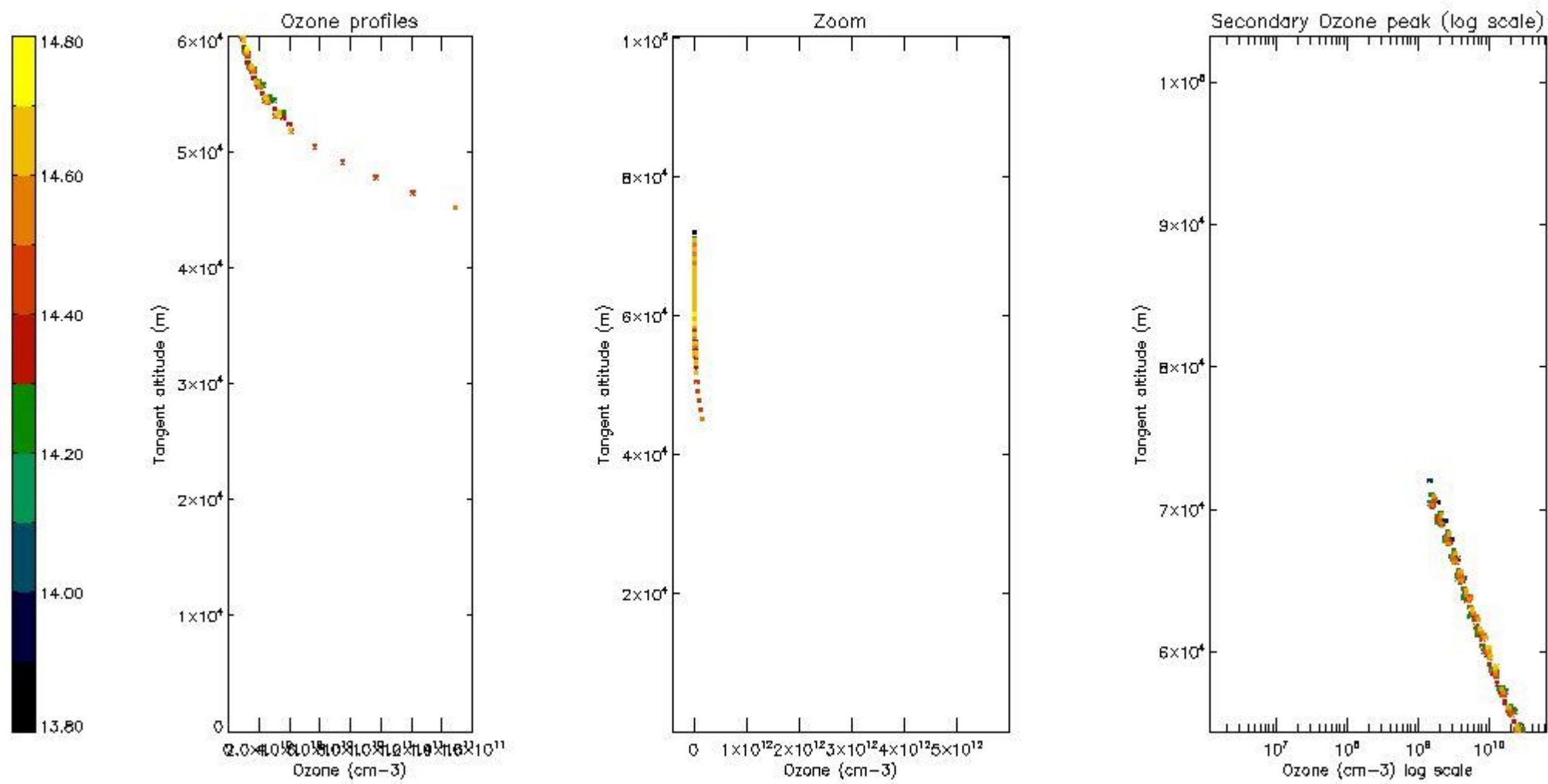
The colorbar represents the latitude.





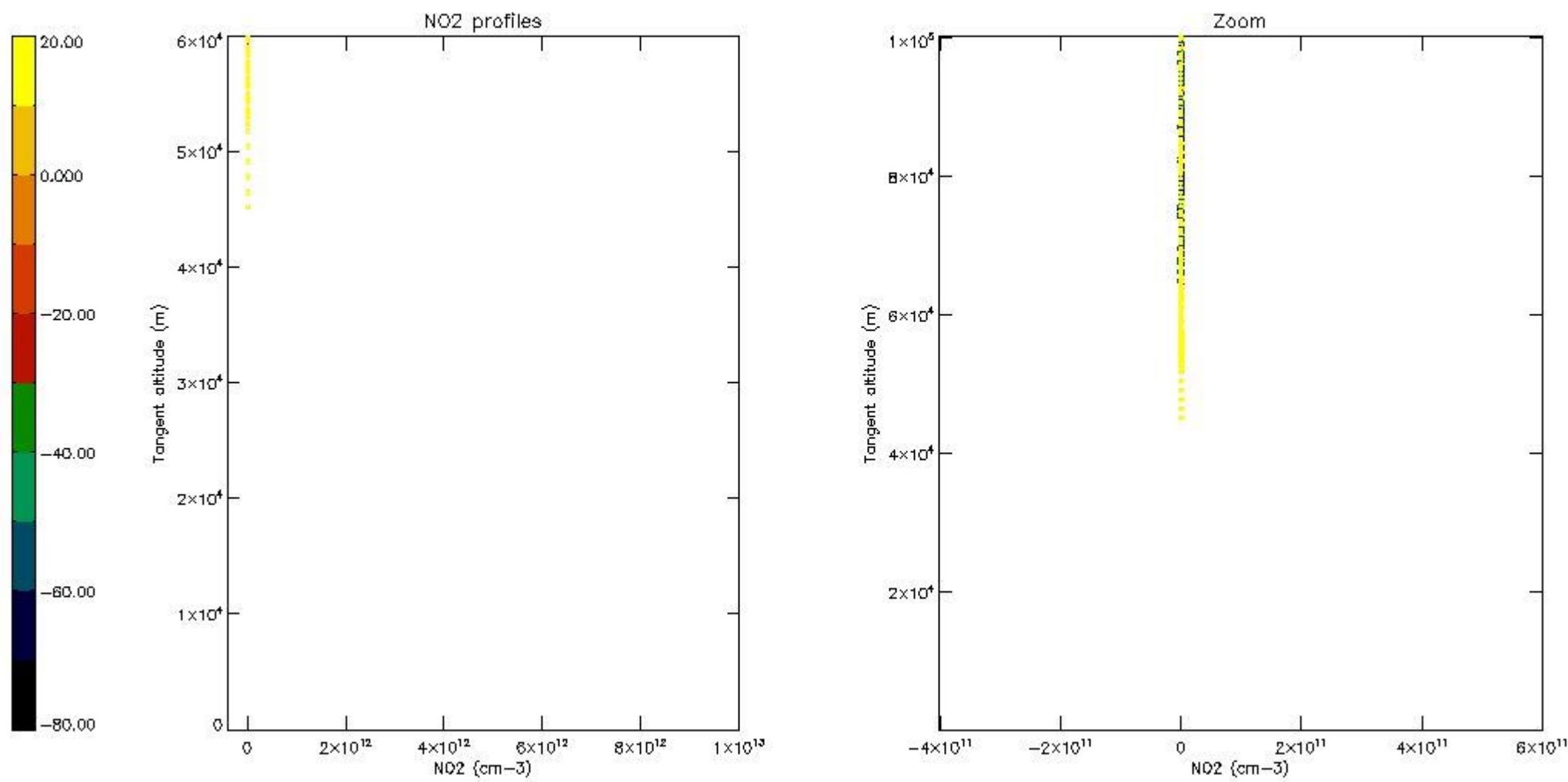
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



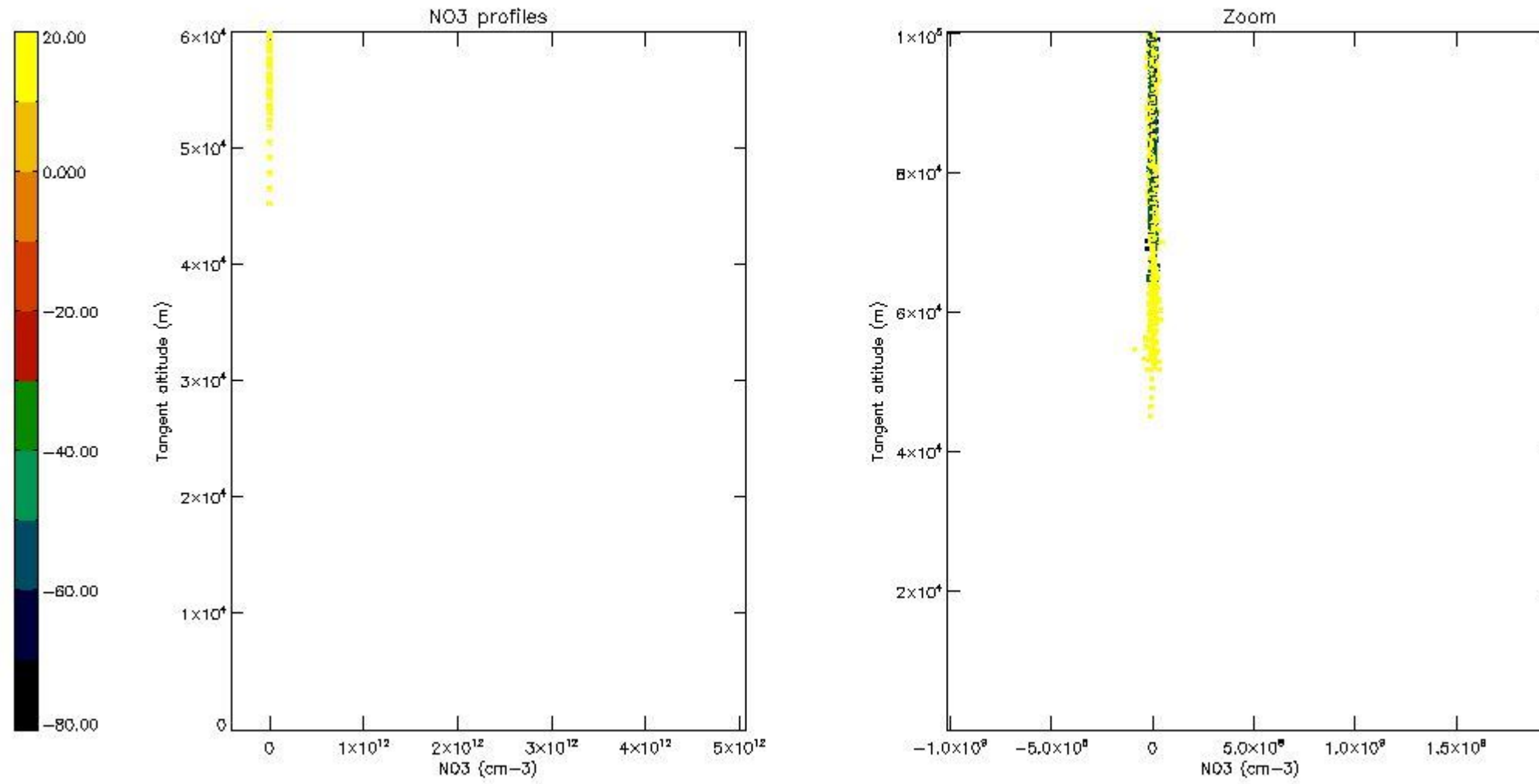
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	19-APR-2009 00:12:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-APR-2009 00:12:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-APR-2009 00:12:03



# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [4.2 Plot of level 1 quality information per product \(world map\)](#)

##### [4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

##### [4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

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

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

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

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

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

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

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

### [6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	26APR2013 08:54:33
Data source version	GOMOS/6.01
Start time of products	19-04-2009 (19APR2009 00:00:00)
Stop time of products	20-04-2009 (20APR2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	171
Nb of prods with errors	0

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

**!Warning: No products without errors in BRIGHT limb contitions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090419_001203_000000312078_00174_37302_8444.N1	19-APR-2009 00:12:03	Dark	30.500	147	Alp Ara	2.8770	26000.	61	37302	No
2	GOM_NL__2PRFIN20090419_001406_000000392078_00174_37302_8445.N1	19-APR-2009 00:14:06	Straylight	39.000	25	35Lam Sco	1.6200	28000.	78	37302	No
3	GOM_NL__2PRFIN20090419_001754_000000292078_00174_37302_8446.N1	19-APR-2009 00:17:54	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37302	No
4	GOM_NL__2PRFIN20090419_001920_000000292078_00174_37302_8447.N1	19-APR-2009 00:19:20	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37302	No
5	GOM_NL__2PRFIN20090419_002914_000000322078_00174_37302_8448.N1	19-APR-2009 00:29:14	Twilight_and_stray	32.000	122	9Alp2Lib	2.7470	9700.0	64	37302	No
6	GOM_NL__2PRFIN20090419_004104_000000302078_00174_37302_8449.N1	19-APR-2009 00:41:04	Twilight_and_stray	30.000	111	8Eta Boo	2.6800	6000.0	60	37302	No
7	GOM_NL__2PRFIN20090419_004842_000000332078_00174_37302_8450.N1	19-APR-2009 00:48:42	Twilight_and_stray	33.000	180	27Gam Boo	3.0400	8000.0	66	37302	No
8	GOM_NL__2PRFIN20090419_005826_000000302078_00174_37302_8451.N1	19-APR-2009 00:58:26	Twilight_and_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37302	No
9	GOM_NL__2PRFIN20090419_011248_000000252078_00174_37302_8452.N1	19-APR-2009 01:12:48	Twilight_and_stray	25.000	19	50Alp Cyg	1.2460	10500.	50	37302	No
10	GOM_NL__2PRFIN20090419_011721_000000272078_00174_37302_8453.N1	19-APR-2009 01:17:21	Twilight_and_stray	26.500	92	53Eps Cyg	2.5000	4500.0	53	37302	No
11	GOM_NL__2PRFIN20090419_012504_000000242078_00174_37302_8454.N1	19-APR-2009 01:25:04	Dark	23.500	61	8Eps Peg	2.1000	3900.0	47	37302	No
12	GOM_NL__2PRFIN20090419_013021_000000262078_00174_37302_8455.N1	19-APR-2009 01:30:21	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37302	No
13	GOM_NL__2PRFIN20090419_015241_000000302078_00175_37303_8458.N1	19-APR-2009 01:52:41	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37303	No
14	GOM_NL__2PRFIN20090419_015443_000000432078_00175_37303_8459.N1	19-APR-2009 01:54:43	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37303	No
15	GOM_NL__2PRFIN20090419_015831_000000292078_00175_37303_8460.N1	19-APR-2009 01:58:31	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37303	No
16	GOM_NL__2PRFIN20090419_015956_000000302078_00175_37303_8461.N1	19-APR-2009 01:59:56	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37303	No
17	GOM_NL__2PRFIN20090419_020950_000000332078_00175_37303_8462.N1	19-APR-2009 02:09:50	Twilight_and_stray	32.500	122	9Alp2Lib	2.7470	9700.0	65	37303	No
18	GOM_NL__2PRFIN20090419_022139_000000312078_00175_37303_8463.N1	19-APR-2009 02:21:39	Twilight_and_stray	31.000	111	8Eta Boo	2.6800	6000.0	62	37303	No
19	GOM_NL__2PRFIN20090419_022917_000000342078_00175_37303_8464.N1	19-APR-2009 02:29:17	Twilight_and_stray	33.500	180	27Gam Boo	3.0400	8000.0	67	37303	No
20	GOM_NL__2PRFIN20090419_023901_000000302078_00175_37303_8465.N1	19-APR-2009 02:39:01	Twilight_and_stray	30.000	119	14Eta Dra	2.7270	4700.0	60	37303	No
21	GOM_NL__2PRFIN20090419_025324_000000262078_00175_37303_8466.N1	19-APR-2009 02:53:24	Twilight_and_stray	26.000	19	50Alp Cyg	1.2460	10500.	52	37303	No
22	GOM_NL__2PRFIN20090419_025757_000000282078_00175_37303_8467.N1	19-APR-2009 02:57:57	Twilight_and_stray	27.500	92	53Eps Cyg	2.5000	4500.0	55	37303	No
23	GOM_NL__2PRFIN20090419_030540_000000252078_00175_37303_8468.N1	19-APR-2009 03:05:40	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37303	No
24	GOM_NL__2PRFIN20090419_031057_000000272078_00175_37303_8469.N1	19-APR-2009 03:10:57	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37303	No
25	GOM_NL__2PRFIN20090419_033317_000000252078_00176_37304_8473.N1	19-APR-2009 03:33:17	Dark	24.500	147	Alp Ara	2.8770	26000.	49	37304	No
26	GOM_NL__2PRFIN20090419_033520_000000412078_00176_37304_8474.N1	19-APR-2009 03:35:20	Straylight	40.500	25	35Lam Sco	1.6200	28000.	81	37304	No
27	GOM_NL__2PRFIN20090419_033908_000000312078_00176_37304_8475.N1	19-APR-2009 03:39:08	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37304	No
28	GOM_NL__2PRFIN20090419_034033_000000302078_00176_37304_8476.N1	19-APR-2009 03:40:33	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37304	No
29	GOM_NL__2PRFIN20090419_035027_000000332078_00176_37304_8477.N1	19-APR-2009 03:50:27	Twilight_and_stray	32.500	122	9Alp2Lib	2.7470	9700.0	65	37304	No
30	GOM_NL__2PRFIN20090419_040215_000000312078_00176_37304_8478.N1	19-APR-2009 04:02:15	Twilight_and_stray	30.500	111	8Eta Boo	2.6800	6000.0	61	37304	No
31	GOM_NL__2PRFIN20090419_040952_000000342078_00176_37304_8479.N1	19-APR-2009 04:09:52	Twilight_and_stray	33.500	180	27Gam Boo	3.0400	8000.0	67	37304	No
32	GOM_NL__2PRFIN20090419_041936_000000302078_00176_37304_8480.N1	19-APR-2009 04:19:36	Twilight_and_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37304	No
33	GOM_NL__2PRFIN20090419_043400_000000262078_00176_37304_8481.N1	19-APR-2009 04:34:00	Twilight_and_stray	25.500	19	50Alp Cyg	1.2460	10500.	51	37304	No
34	GOM_NL__2PRFIN20090419_043833_000000272078_00176_37304_8482.N1	19-APR-2009 04:38:33	Twilight_and_stray	27.000	92	53Eps Cyg	2.5000	4500.0	54	37304	No
35	GOM_NL__2PRFIN20090419_044617_000000252078_00176_37304_8483.N1	19-APR-2009 04:46:17	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37304	No
36	GOM_NL__2PRFIN20090419_045134_000000272078_00176_37304_8484.N1	19-APR-2009 04:51:34	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37304	No
37	GOM_NL__2PRFIN20090419_051354_000000312078_00177_37305_8507.N1	19-APR-2009 05:13:54	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37305	No
38	GOM_NL__2PRFIN20090419_051558_000000402078_00177_37305_8508.N1	19-APR-2009 05:15:58	Straylight	39.500	25	35Lam Sco	1.6200	28000.	79	37305	No
39	GOM_NL__2PRFIN20090419_051945_000000312078_00177_37305_8509.N1	19-APR-2009 05:19:45	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37305	No
40	GOM_NL__2PRFIN20090419_052110_000000292078_00177_37305_8510.N1	19-APR-2009 05:21:10	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37305	No
41	GOM_NL__2PRFIN20090419_053103_000000322078_00177_37305_8511.N1	19-APR-2009 05:31:03	Twilight_and_stray	32.000	122	9Alp2Lib	2.7470	9700.0	64	37305	No

42	GOM_NL__2PRFIN20090419_054251_000000312078_00177_37305_8512.N1	19-APR-2009 05:42:51	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37305	No
43	GOM_NL__2PRFIN20090419_055028_000000332078_00177_37305_8513.N1	19-APR-2009 05:50:28	Twilight	33.000	180	27Gam Boo	3.0400	8000.0	66	37305	No
44	GOM_NL__2PRFIN20090419_060011_000000302078_00177_37305_8514.N1	19-APR-2009 06:00:11	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37305	No
45	GOM_NL__2PRFIN20090419_061435_000000262078_00177_37305_8515.N1	19-APR-2009 06:14:35	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37305	No
46	GOM_NL__2PRFIN20090419_061909_000000272078_00177_37305_8516.N1	19-APR-2009 06:19:09	Twilight	27.000	92	53Eps Cyg	2.5000	4500.0	54	37305	No
47	GOM_NL__2PRFIN20090419_062654_000000252078_00177_37305_8517.N1	19-APR-2009 06:26:54	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37305	No
48	GOM_NL__2PRFIN20090419_063211_000000272078_00177_37305_8518.N1	19-APR-2009 06:32:11	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37305	No
49	GOM_NL__2PRFIN20090419_065431_000000322078_00178_37306_8521.N1	19-APR-2009 06:54:31	Dark	31.500	147	Alp Ara	2.8770	26000.	63	37306	No
50	GOM_NL__2PRFIN20090419_065635_000000402078_00178_37306_8522.N1	19-APR-2009 06:56:35	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37306	No
51	GOM_NL__2PRFIN20090419_070022_000000332078_00178_37306_8523.N1	19-APR-2009 07:00:22	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37306	No
52	GOM_NL__2PRFIN20090419_070146_000000302078_00178_37306_8524.N1	19-APR-2009 07:01:46	Straylight	29.500	131	Gam Lup	2.8000	26000.	59	37306	No
53	GOM_NL__2PRFIN20090419_071139_000000322078_00178_37306_8525.N1	19-APR-2009 07:11:39	Twilight	31.500	122	9Alp2Lib	2.7470	9700.0	63	37306	No
54	GOM_NL__2PRFIN20090419_072326_000000302078_00178_37306_8526.N1	19-APR-2009 07:23:26	Twilight	30.000	111	8Eta Boo	2.6800	6000.0	60	37306	No
55	GOM_NL__2PRFIN20090419_073103_000000342078_00178_37306_8527.N1	19-APR-2009 07:31:03	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37306	No
56	GOM_NL__2PRFIN20090419_074047_000000302078_00178_37306_8528.N1	19-APR-2009 07:40:47	Twilight	30.000	119	14Eta Dra	2.7270	4700.0	60	37306	No
57	GOM_NL__2PRFIN20090419_075511_000000262078_00178_37306_8529.N1	19-APR-2009 07:55:11	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37306	No
58	GOM_NL__2PRFIN20090419_075945_000000272078_00178_37306_8530.N1	19-APR-2009 07:59:45	Twilight	27.000	92	53Eps Cyg	2.5000	4500.0	54	37306	No
59	GOM_NL__2PRFIN20090419_080730_000000242078_00178_37306_8531.N1	19-APR-2009 08:07:30	Dark	24.000	61	8Eps Peg	2.1000	3900.0	48	37306	No
60	GOM_NL__2PRFIN20090419_081248_000000272078_00178_37306_8532.N1	19-APR-2009 08:12:48	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37306	No
61	GOM_NL__2PRFIN20090419_083507_000000312078_00179_37307_8535.N1	19-APR-2009 08:35:07	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37307	No
62	GOM_NL__2PRFIN20090419_083712_000000402078_00179_37307_8536.N1	19-APR-2009 08:37:12	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37307	No
63	GOM_NL__2PRFIN20090419_084059_000000332078_00179_37307_8537.N1	19-APR-2009 08:40:59	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37307	No
64	GOM_NL__2PRFIN20090419_084223_000000302078_00179_37307_8538.N1	19-APR-2009 08:42:23	Straylight	29.500	131	Gam Lup	2.8000	26000.	59	37307	No
65	GOM_NL__2PRFIN20090419_085215_000000322078_00179_37307_8539.N1	19-APR-2009 08:52:15	Twilight	31.500	122	9Alp2Lib	2.7470	9700.0	63	37307	No
66	GOM_NL__2PRFIN20090419_090402_000000312078_00179_37307_8540.N1	19-APR-2009 09:04:02	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37307	No
67	GOM_NL__2PRFIN20090419_091138_000000342078_00179_37307_8541.N1	19-APR-2009 09:11:38	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37307	No
68	GOM_NL__2PRFIN20090419_092122_000000302078_00179_37307_8542.N1	19-APR-2009 09:21:22	Twilight	30.000	119	14Eta Dra	2.7270	4700.0	60	37307	No
69	GOM_NL__2PRFIN20090419_093547_000000262078_00179_37307_8543.N1	19-APR-2009 09:35:47	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37307	No
70	GOM_NL__2PRFIN20090419_094021_000000282078_00179_37307_8544.N1	19-APR-2009 09:40:21	Twilight	27.500	92	53Eps Cyg	2.5000	4500.0	55	37307	No
71	GOM_NL__2PRFIN20090419_094806_000000252078_00179_37307_8545.N1	19-APR-2009 09:48:06	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37307	No
72	GOM_NL__2PRFIN20090419_095324_000000272078_00179_37307_8546.N1	19-APR-2009 09:53:24	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37307	No
73	GOM_NL__2PRFIN20090419_101544_000000312078_00180_37308_8549.N1	19-APR-2009 10:15:44	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37308	No
74	GOM_NL__2PRFIN20090419_101749_000000392078_00180_37308_8550.N1	19-APR-2009 10:17:49	Straylight	39.000	25	35Lam Sco	1.6200	28000.	78	37308	No
75	GOM_NL__2PRFIN20090419_102135_000000342078_00180_37308_8551.N1	19-APR-2009 10:21:35	Straylight	34.000	75	26Eps Sco	2.2910	4250.0	68	37308	No
76	GOM_NL__2PRFIN20090419_102259_000000292078_00180_37308_8552.N1	19-APR-2009 10:22:59	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37308	No
77	GOM_NL__2PRFIN20090419_103251_000000312078_00180_37308_8553.N1	19-APR-2009 10:32:51	Twilight	31.000	122	9Alp2Lib	2.7470	9700.0	62	37308	No
78	GOM_NL__2PRFIN20090419_104437_000000302078_00180_37308_8554.N1	19-APR-2009 10:44:37	Twilight	30.000	111	8Eta Boo	2.6800	6000.0	60	37308	No
79	GOM_NL__2PRFIN20090419_105213_000000332078_00180_37308_8555.N1	19-APR-2009 10:52:13	Twilight	32.500	180	27Gam Boo	3.0400	8000.0	65	37308	No
80	GOM_NL__2PRFIN20090419_110157_000000302078_00180_37308_8556.N1	19-APR-2009 11:01:57	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37308	No
81	GOM_NL__2PRFIN20090419_111623_000000252078_00180_37308_8557.N1	19-APR-2009 11:16:23	Twilight	25.000	19	50Alp Cyg	1.2460	10500.	50	37308	No
82	GOM_NL__2PRFIN20090419_112057_000000272078_00180_37308_8558.N1	19-APR-2009 11:20:57	Twilight	26.500	92	53Eps Cyg	2.5000	4500.0	53	37308	No
83	GOM_NL__2PRFIN20090419_112843_000000242078_00180_37308_8559.N1	19-APR-2009 11:28:43	Dark	24.000	61	8Eps Peg	2.1000	3900.0	48	37308	No
84	GOM_NL__2PRFIN20090419_113401_000000272078_00180_37308_8560.N1	19-APR-2009 11:34:01	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37308	No
85	GOM_NL__2PRFIN20090419_115621_000000342078_00181_37309_8563.N1	19-APR-2009 11:56:21	Dark	33.500	147	Alp Ara	2.8770	26000.	67	37309	No
86	GOM_NL__2PRFIN20090419_115826_000000382078_00181_37309_8564.N1	19-APR-2009 11:58:26	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37309	No
87	GOM_NL__2PRFIN20090419_120212_000000342078_00181_37309_8565.N1	19-APR-2009 12:02:12	Straylight	34.000	75	26Eps Sco	2.2910	4250.0	68	37309	No
88	GOM_NL__2PRFIN20090419_120335_000000282078_00181_37309_8566.N1	19-APR-2009 12:03:35	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37309	No
89	GOM_NL__2PRFIN20090419_121327_000000302078_00181_37309_8567.N1	19-APR-2009 12:13:27	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37309	No
90	GOM_NL__2PRFIN20090419_122513_000000282078_00181_37309_8568.N1	19-APR-2009 12:25:13	Twilight	28.000	111	8Eta Boo	2.6800	6000.0	56	37309	No
91	GOM_NL__2PRFIN20090419_123248_000000312078_00181_37309_8569.N1	19-APR-2009 12:32:48	Twilight	31.000	180	27Gam Boo	3.0400	8000.0	62	37309	No
92	GOM_NL__2PRFIN20090419_124232_000000282078_00181_37309_8570.N1	19-APR-2009 12:42:32	Twilight	28.000	119	14Eta Dra	2.7270	4700.0	56	37309	No
93	GOM_NL__2PRFIN20090419_125658_000000232078_00181_37309_8571.N1	19-APR-2009 12:56:58	Twilight	23.000	19	50Alp Cyg	1.2460	10500.	46	37309	No
94	GOM_NL__2PRFIN20090419_130133_000000252078_00181_37309_8572.N1	19-APR-2009 13:01:33	Twilight	24.500	92	53Eps Cyg	2.5000	4500.0	49	37309	No
95	GOM_NL__2PRFIN20090419_130919_000000222078_00181_37309_8573.N1	19-APR-2009 13:09:19	Dark	22.000	61	8Eps Peg	2.1000	3900.0	44	37309	No
96	GOM_NL__2PRFIN20090419_131438_000000252078_00181_37309_8574.N1	19-APR-2009 13:14:38	Dark	24.500	154	22Bet Aqr	2.8990	5700.0	49	37309	No
97	GOM_NL__2PRFIN20090419_133658_000000302078_00182_37310_8577.N1	19-APR-2009 13:36:58	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37310	No
98	GOM_NL__2PRFIN20090419_133904_000000422078_00182_37310_8578.N1	19-APR-2009 13:39:04	Straylight	41.500	25	35Lam Sco	1.6200	28000.	83	37310	No
99	GOM_NL__2PRFIN20090419_134249_000000362078_00182_37310_8579.N1	19-APR-2009 13:42:49	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37310	No
100	GOM_NL__2PRFIN20090419_134412_000000282078_00182_37310_8580.N1	19-APR-2009 13:44:12	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37310	No

101	GOM_NL__2PRFIN20090419_135403_000000312078_00182_37310_8581.N1	19-APR-2009 13:54:03	Twi_and_stray	30.500	122	9Alp2Lib	2.7470	9700.0	61	37310	No
102	GOM_NL__2PRFIN20090419_140548_000000292078_00182_37310_8582.N1	19-APR-2009 14:05:48	Twi_and_stray	28.500	111	8Eta Boo	2.6800	6000.0	57	37310	No
103	GOM_NL__2PRFIN20090419_141323_000000322078_00182_37310_8583.N1	19-APR-2009 14:13:23	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37310	No
104	GOM_NL__2PRFIN20090419_142307_000000292078_00182_37310_8584.N1	19-APR-2009 14:23:07	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37310	No
105	GOM_NL__2PRFIN20090419_143734_000000242078_00182_37310_8585.N1	19-APR-2009 14:37:34	Twi_and_stray	24.000	19	50Alp Cyg	1.2460	10500.	48	37310	No
106	GOM_NL__2PRFIN20090419_144209_000000292078_00182_37310_8586.N1	19-APR-2009 14:42:09	Twi_and_stray	28.500	92	53Eps Cyg	2.5000	4500.0	57	37310	No
107	GOM_NL__2PRFIN20090419_144956_000000232078_00182_37310_8587.N1	19-APR-2009 14:49:56	Dark	23.000	61	8Eps Peg	2.1000	3900.0	46	37310	No
108	GOM_NL__2PRFIN20090419_145514_000000262078_00182_37310_8588.N1	19-APR-2009 14:55:14	Dark	25.500	154	22Bet Aqr	2.8990	5700.0	51	37310	No
109	GOM_NL__2PRFIN20090419_151735_000000302078_00183_37311_8592.N1	19-APR-2009 15:17:35	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37311	No
110	GOM_NL__2PRFIN20090419_151941_000000402078_00183_37311_8593.N1	19-APR-2009 15:19:41	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37311	No
111	GOM_NL__2PRFIN20090419_152327_000000362078_00183_37311_8594.N1	19-APR-2009 15:23:27	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37311	No
112	GOM_NL__2PRFIN20090419_152449_000000282078_00183_37311_8595.N1	19-APR-2009 15:24:49	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37311	No
113	GOM_NL__2PRFIN20090419_153439_000000312078_00183_37311_8596.N1	19-APR-2009 15:34:39	Twi_and_stray	30.500	122	9Alp2Lib	2.7470	9700.0	61	37311	No
114	GOM_NL__2PRFIN20090419_154624_000000292078_00183_37311_8597.N1	19-APR-2009 15:46:24	Twi_and_stray	28.500	111	8Eta Boo	2.6800	6000.0	57	37311	No
115	GOM_NL__2PRFIN20090419_155358_000000322078_00183_37311_8598.N1	19-APR-2009 15:53:58	Twi_and_stray	32.000	180	27Gam Boo	3.0400	8000.0	64	37311	No
116	GOM_NL__2PRFIN20090419_160343_000000292078_00183_37311_8599.N1	19-APR-2009 16:03:43	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37311	No
117	GOM_NL__2PRFIN20090419_161810_000000242078_00183_37311_8600.N1	19-APR-2009 16:18:10	Twi_and_stray	24.000	19	50Alp Cyg	1.2460	10500.	48	37311	No
118	GOM_NL__2PRFIN20090419_162245_000000262078_00183_37311_8601.N1	19-APR-2009 16:22:45	Twi_and_stray	26.000	92	53Eps Cyg	2.5000	4500.0	52	37311	No
119	GOM_NL__2PRFIN20090419_163032_000000232078_00183_37311_8602.N1	19-APR-2009 16:30:32	Dark	23.000	61	8Eps Peg	2.1000	3900.0	46	37311	No
120	GOM_NL__2PRFIN20090419_163551_000000262078_00183_37311_8603.N1	19-APR-2009 16:35:51	Dark	25.500	154	22Bet Aqr	2.8990	5700.0	51	37311	No
121	GOM_NL__2PRFIN20090419_165812_000000302078_00184_37312_8607.N1	19-APR-2009 16:58:12	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37312	No
122	GOM_NL__2PRFIN20090419_170018_000000402078_00184_37312_8608.N1	19-APR-2009 17:00:18	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37312	No
123	GOM_NL__2PRFIN20090419_170403_000000382078_00184_37312_8609.N1	19-APR-2009 17:04:03	Straylight	38.000	75	26Eps Sco	2.2910	4250.0	76	37312	No
124	GOM_NL__2PRFIN20090419_170525_000000282078_00184_37312_8610.N1	19-APR-2009 17:05:25	Straylight	28.000	131	Gam Lup	2.8000	26000.	56	37312	No
125	GOM_NL__2PRFIN20090419_171515_000000312078_00184_37312_8611.N1	19-APR-2009 17:15:15	Twi_and_stray	31.000	122	9Alp2Lib	2.7470	9700.0	62	37312	No
126	GOM_NL__2PRFIN20090419_172659_000000292078_00184_37312_8612.N1	19-APR-2009 17:26:59	Twi_and_stray	29.000	111	8Eta Boo	2.6800	6000.0	58	37312	No
127	GOM_NL__2PRFIN20090419_173434_000000322078_00184_37312_8613.N1	19-APR-2009 17:34:34	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37312	No
128	GOM_NL__2PRFIN20090419_174418_000000302078_00184_37312_8614.N1	19-APR-2009 17:44:18	Twi_and_stray	29.500	119	14Eta Dra	2.7270	4700.0	59	37312	No
129	GOM_NL__2PRFIN20090419_175846_000000252078_00184_37312_8615.N1	19-APR-2009 17:58:46	Twi_and_stray	24.500	19	50Alp Cyg	1.2460	10500.	49	37312	No
130	GOM_NL__2PRFIN20090419_180321_000000262078_00184_37312_8616.N1	19-APR-2009 18:03:21	Twi_and_stray	26.000	92	53Eps Cyg	2.5000	4500.0	52	37312	No
131	GOM_NL__2PRFIN20090419_181109_000000242078_00184_37312_8617.N1	19-APR-2009 18:11:09	Dark	23.500	61	8Eps Peg	2.1000	3900.0	47	37312	No
132	GOM_NL__2PRFIN20090419_181628_000000262078_00184_37312_8618.N1	19-APR-2009 18:16:28	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37312	No
133	GOM_NL__2PRFIN20090419_183848_000000322078_00185_37313_8624.N1	19-APR-2009 18:38:48	Dark	31.500	147	Alp Ara	2.8770	26000.	63	37313	No
134	GOM_NL__2PRFIN20090419_184055_000000382078_00185_37313_8625.N1	19-APR-2009 18:40:55	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37313	No
135	GOM_NL__2PRFIN20090419_184440_000000372078_00185_37313_8626.N1	19-APR-2009 18:44:40	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37313	No
136	GOM_NL__2PRFIN20090419_184602_000000282078_00185_37313_8627.N1	19-APR-2009 18:46:02	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37313	No
137	GOM_NL__2PRFIN20090419_185551_000000302078_00185_37313_8628.N1	19-APR-2009 18:55:51	Twi_and_stray	30.000	122	9Alp2Lib	2.7470	9700.0	60	37313	No
138	GOM_NL__2PRFIN20090419_190735_000000282078_00185_37313_8629.N1	19-APR-2009 19:07:35	Twi_and_stray	28.000	111	8Eta Boo	2.6800	6000.0	56	37313	No
139	GOM_NL__2PRFIN20090419_191509_000000322078_00185_37313_8630.N1	19-APR-2009 19:15:09	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37313	No
140	GOM_NL__2PRFIN20090419_192453_000000292078_00185_37313_8631.N1	19-APR-2009 19:24:53	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37313	No
141	GOM_NL__2PRFIN20090419_193921_000000242078_00185_37313_8632.N1	19-APR-2009 19:39:21	Twi_and_stray	23.500	19	50Alp Cyg	1.2460	10500.	47	37313	No
142	GOM_NL__2PRFIN20090419_194357_000000252078_00185_37313_8633.N1	19-APR-2009 19:43:57	Twi_and_stray	25.000	92	53Eps Cyg	2.5000	4500.0	50	37313	No
143	GOM_NL__2PRFIN20090419_195145_000000232078_00185_37313_8634.N1	19-APR-2009 19:51:45	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37313	No
144	GOM_NL__2PRFIN20090419_195704_000000252078_00185_37313_8635.N1	19-APR-2009 19:57:04	Dark	25.000	154	22Bet Aqr	2.8990	5700.0	50	37313	No
145	GOM_NL__2PRFIN20090419_201925_000000312078_00186_37314_8639.N1	19-APR-2009 20:19:25	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37314	No
146	GOM_NL__2PRFIN20090419_202132_000000382078_00186_37314_8640.N1	19-APR-2009 20:21:32	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37314	No
147	GOM_NL__2PRFIN20090419_202517_000000372078_00186_37314_8641.N1	19-APR-2009 20:25:17	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37314	No
148	GOM_NL__2PRFIN20090419_202638_000000282078_00186_37314_8642.N1	19-APR-2009 20:26:38	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37314	No
149	GOM_NL__2PRFIN20090419_203627_000000302078_00186_37314_8643.N1	19-APR-2009 20:36:27	Twi_and_stray	30.000	122	9Alp2Lib	2.7470	9700.0	60	37314	No
150	GOM_NL__2PRFIN20090419_204811_000000282078_00186_37314_8644.N1	19-APR-2009 20:48:11	Twi_and_stray	28.000	111	8Eta Boo	2.6800	6000.0	56	37314	No
151	GOM_NL__2PRFIN20090419_205544_000000322078_00186_37314_8645.N1	19-APR-2009 20:55:44	Twi_and_stray	31.500	180	27Gam Boo	3.0400	8000.0	63	37314	No
152	GOM_NL__2PRFIN20090419_210528_000000292078_00186_37314_8646.N1	19-APR-2009 21:05:28	Twi_and_stray	28.500	119	14Eta Dra	2.7270	4700.0	57	37314	No
153	GOM_NL__2PRFIN20090419_212433_000000252078_00186_37314_8647.N1	19-APR-2009 21:24:33	Twi_and_stray	25.000	92	53Eps Cyg	2.5000	4500.0	50	37314	No
154	GOM_NL__2PRFIN20090419_213222_000000232078_00186_37314_8648.N1	19-APR-2009 21:32:22	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37314	No
155	GOM_NL__2PRFIN20090419_213741_000000252078_00186_37314_8649.N1	19-APR-2009 21:37:41	Dark	25.000	154	22Bet Aqr	2.8990	5700.0	50	37314	No
156	GOM_NL__2PRFIN20090419_220002_000000292078_00187_37315_8676.N1	19-APR-2009 22:00:02	Dark	29.000	147	Alp Ara	2.8770	26000.	58	37315	No
157	GOM_NL__2PRFIN20090419_220209_000000372078_00187_37315_8677.N1	19-APR-2009 22:02:09	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37315	No
158	GOM_NL__2PRFIN20090419_220554_000000362078_00187_37315_8678.N1	19-APR-2009 22:05:54	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37315	No
159	GOM_NL__2PRFIN20090419_220715_000000272078_00187_37315_8679.N1	19-APR-2009 22:07:15	Straylight	27.000	131	Gam Lup	2.8000	26000.	54	37315	No

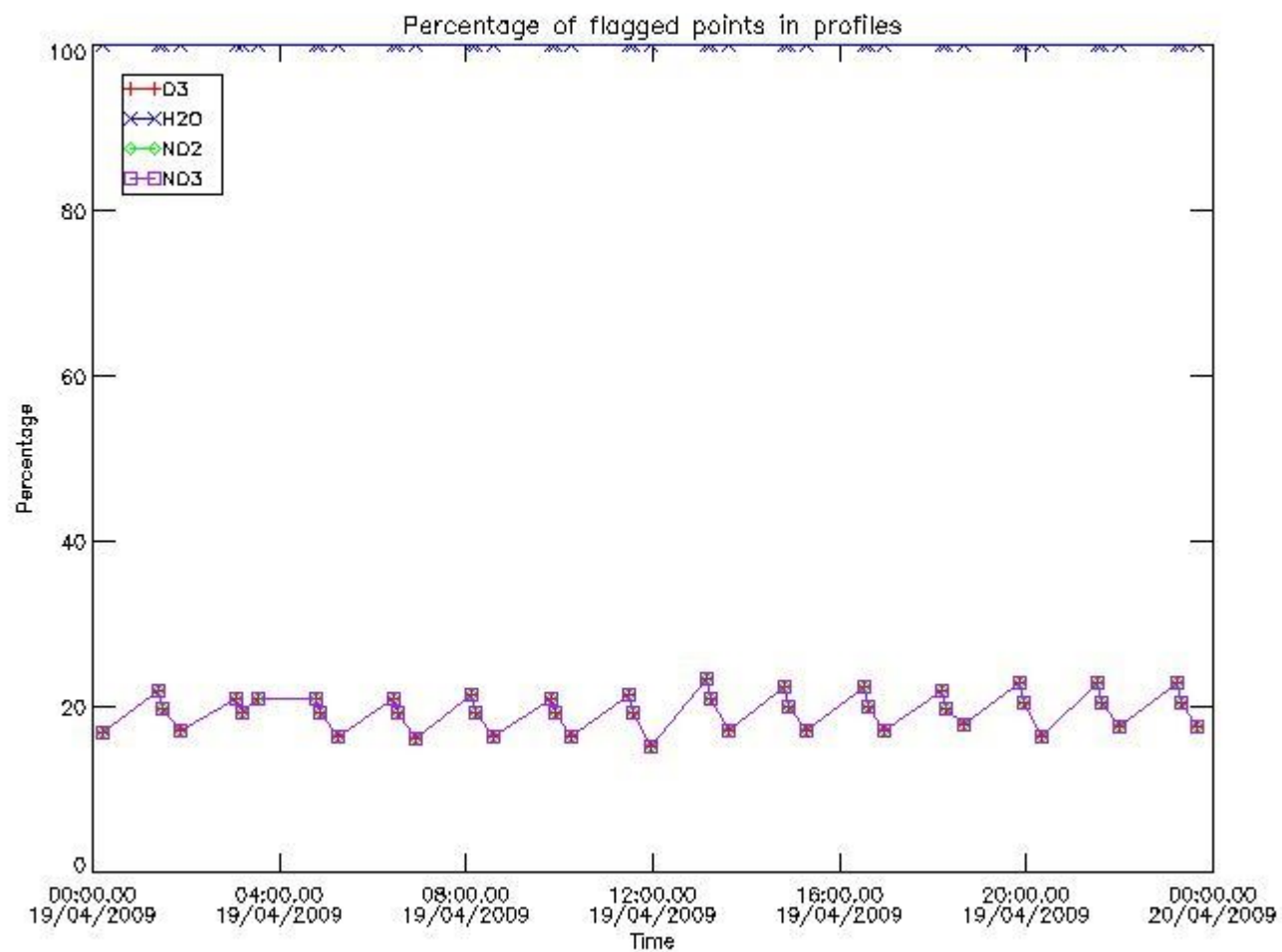


160	GOM_NL__2PRFIN20090419_221703_000000302078_00187_37315_8680.N1	19-APR-2009 22:17:03	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37315	No
161	GOM_NL__2PRFIN20090419_222846_000000282078_00187_37315_8681.N1	19-APR-2009 22:28:46	Twilight	27.500	111	8Eta Boo	2.6800	6000.0	55	37315	No
162	GOM_NL__2PRFIN20090419_223620_000000312078_00187_37315_8682.N1	19-APR-2009 22:36:20	Twilight	30.500	180	27Gam Boo	3.0400	8000.0	61	37315	No
163	GOM_NL__2PRFIN20090419_224604_000000282078_00187_37315_8683.N1	19-APR-2009 22:46:04	Twilight	28.000	119	14Eta Dra	2.7270	4700.0	56	37315	No
164	GOM_NL__2PRFIN20090419_230509_000000252078_00187_37315_8684.N1	19-APR-2009 23:05:09	Twilight	24.500	92	53Eps Cyg	2.5000	4500.0	49	37315	No
165	GOM_NL__2PRFIN20090419_231258_000000232078_00187_37315_8685.N1	19-APR-2009 23:12:58	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37315	No
166	GOM_NL__2PRFIN20090419_231818_000000252078_00187_37315_8686.N1	19-APR-2009 23:18:18	Dark	24.500	154	22Bet Aqr	2.8990	5700.0	49	37315	No
167	GOM_NL__2PRFIN20090419_234038_000000292078_00188_37316_8695.N1	19-APR-2009 23:40:38	Dark	29.000	147	Alp Ara	2.8770	26000.	58	37316	No
168	GOM_NL__2PRFIN20090419_234246_000000372078_00188_37316_8696.N1	19-APR-2009 23:42:46	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37316	No
169	GOM_NL__2PRFIN20090419_234631_000000362078_00188_37316_8697.N1	19-APR-2009 23:46:31	Straylight	36.000	75	26Eps Sco	2.2910	4250.0	72	37316	No
170	GOM_NL__2PRFIN20090419_234751_000000272078_00188_37316_8698.N1	19-APR-2009 23:47:51	Straylight	27.000	131	Gam Lup	2.8000	26000.	54	37316	No
171	GOM_NL__2PRFIN20090419_235739_000000302078_00188_37316_8699.N1	19-APR-2009 23:57:39	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37316	No

### 3. Quality information per product

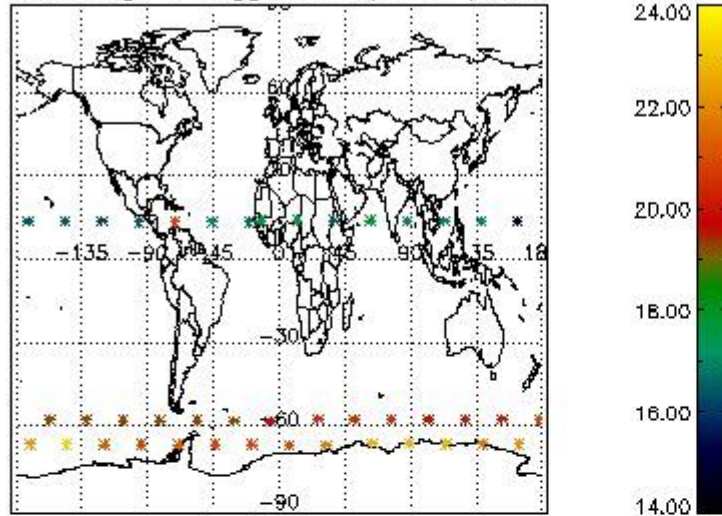
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

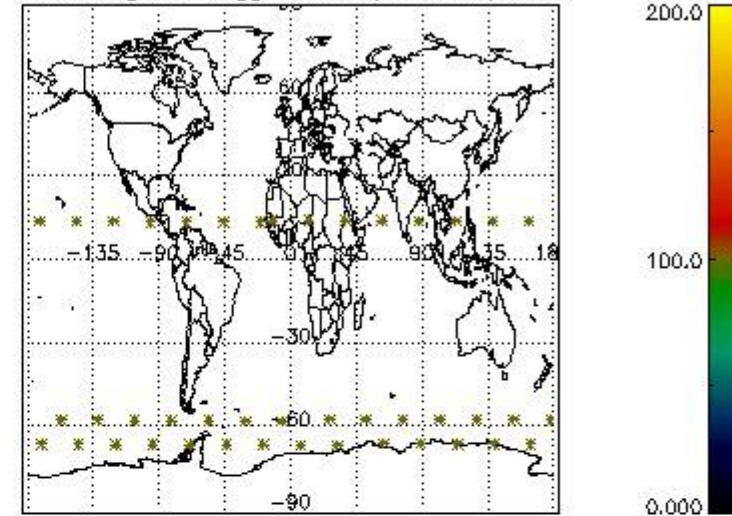


#### 3.2 Plot quality information per product (world map)

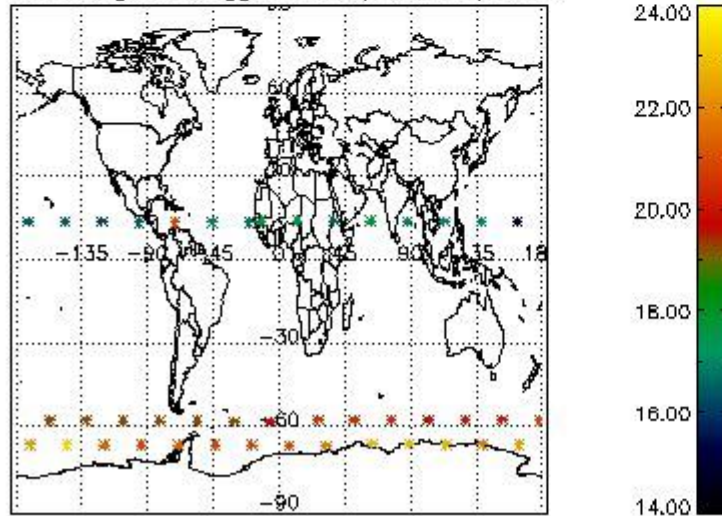
Percentage of flagged data per O3 profile



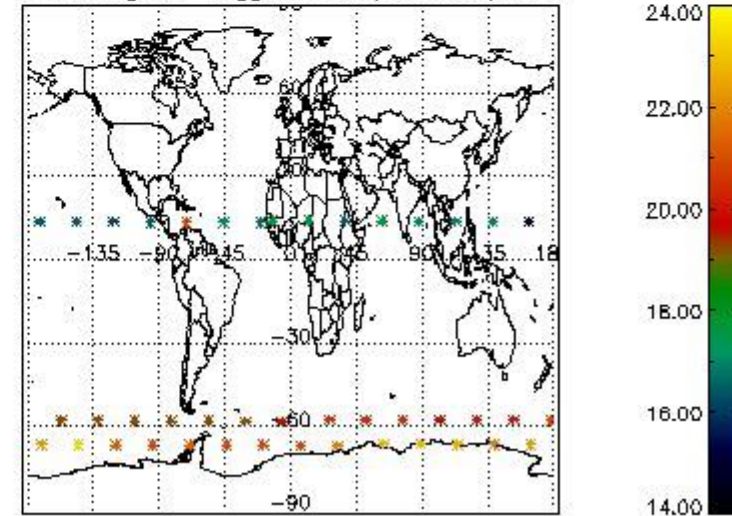
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

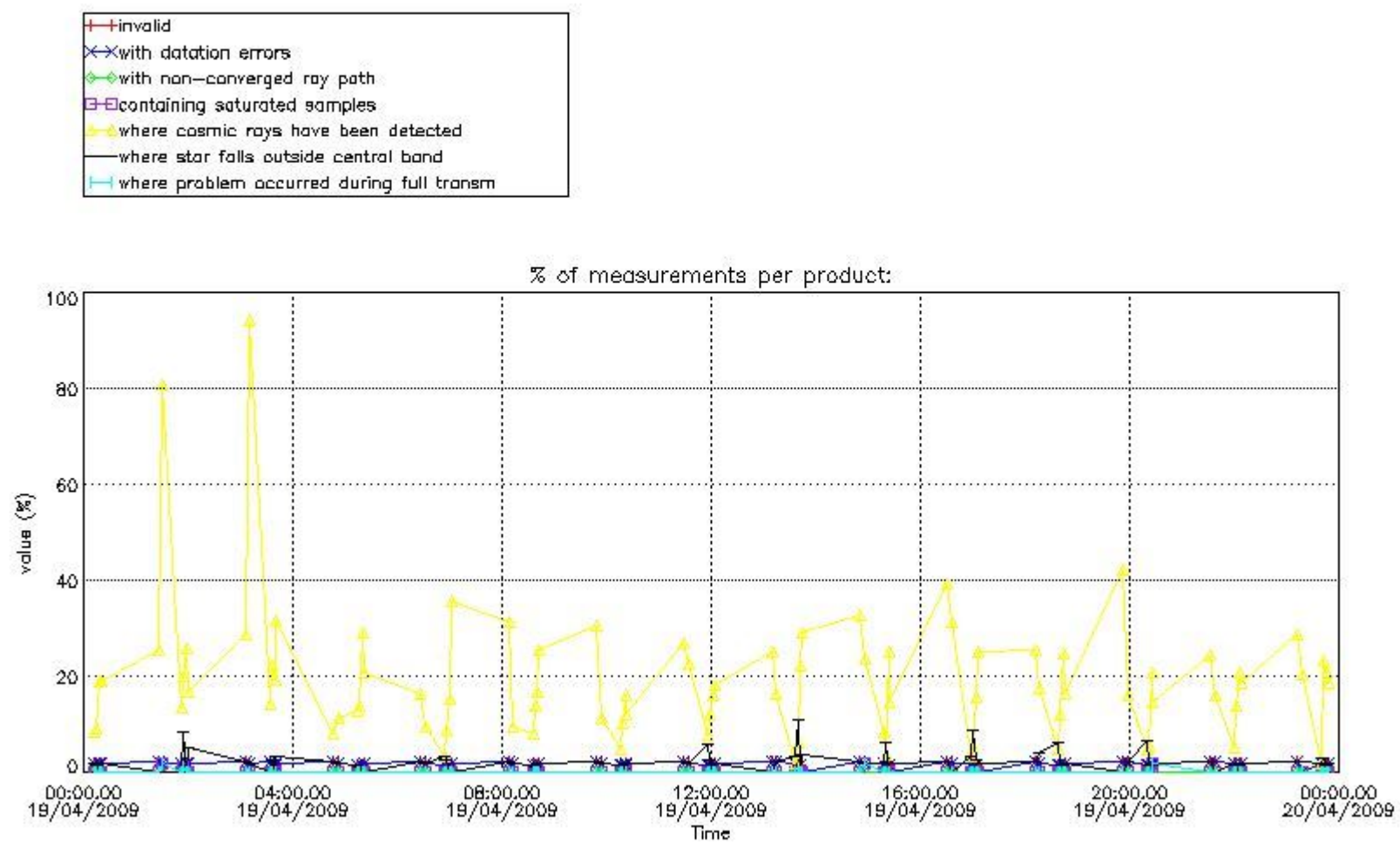


#### 4. Level 1 quality information per product

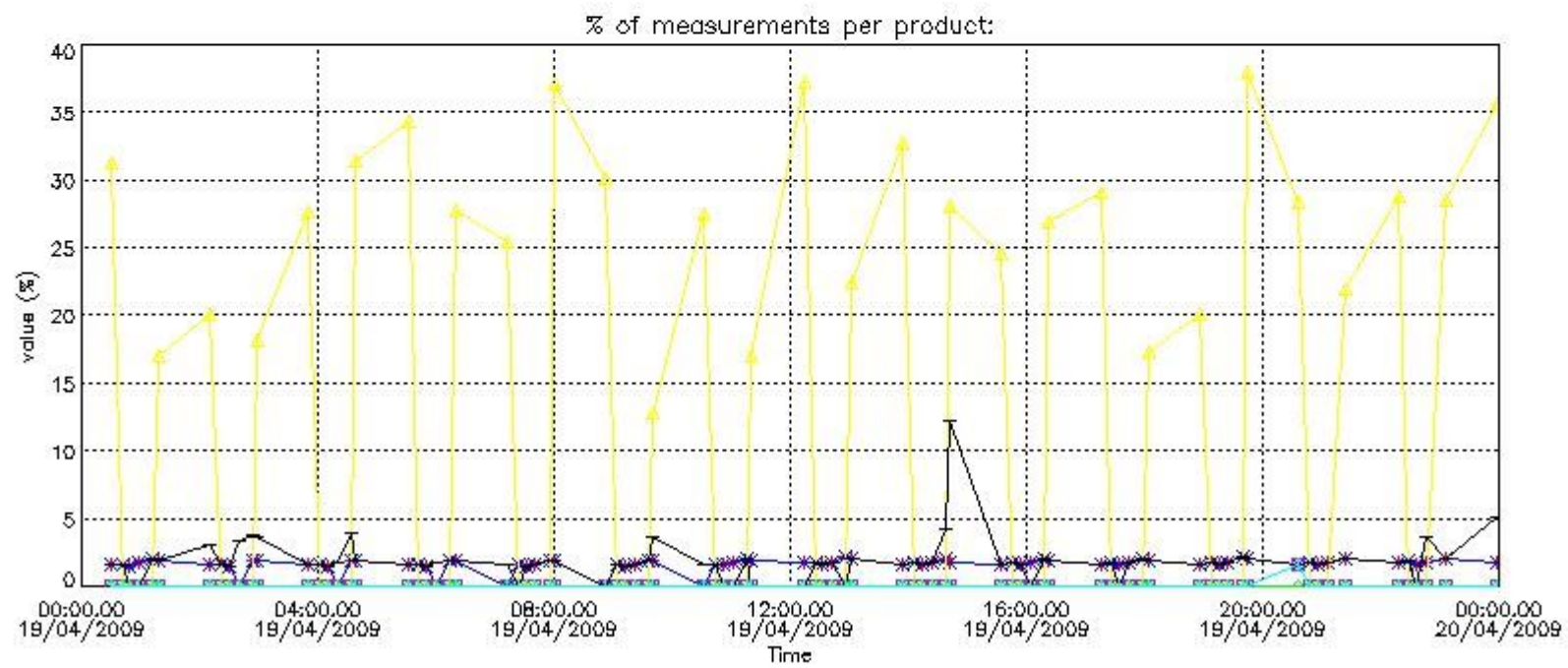
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

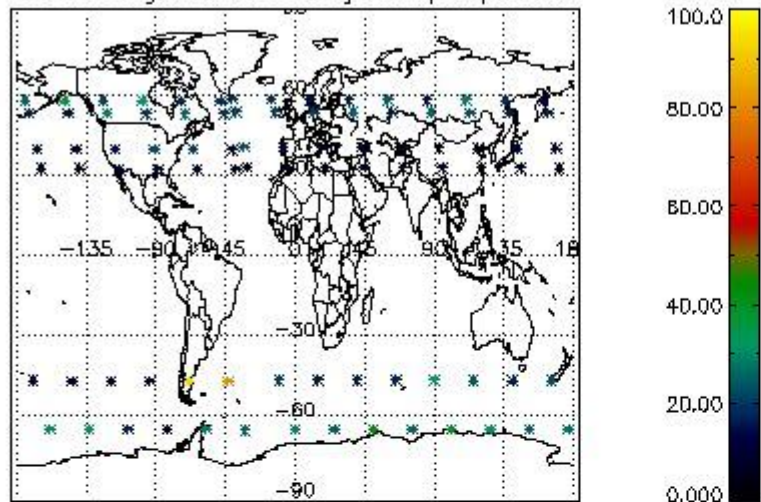


4.2 Plot quality information per product coming from level 1b processing (world map)

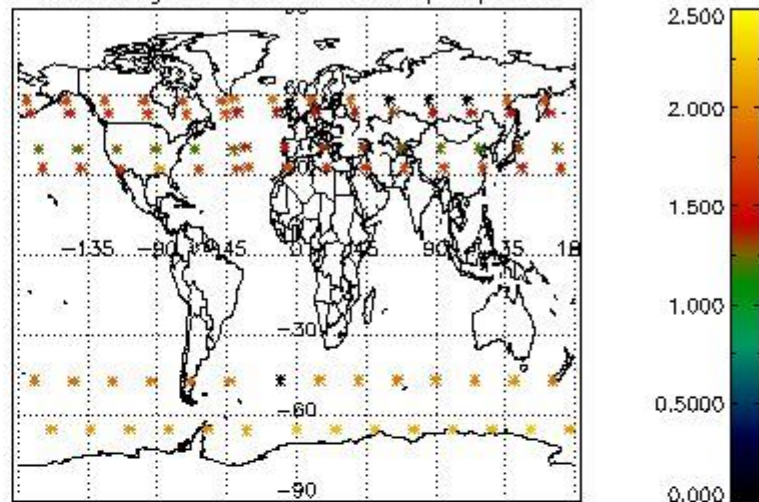
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



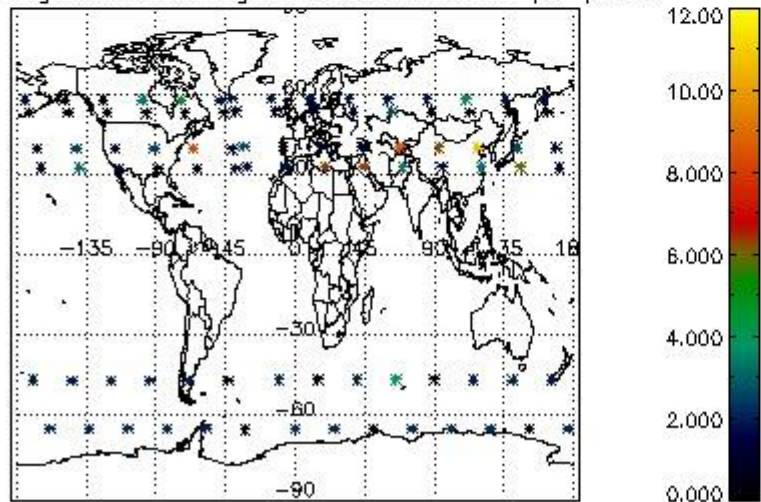
Percentage of cosmic ray hits per profile



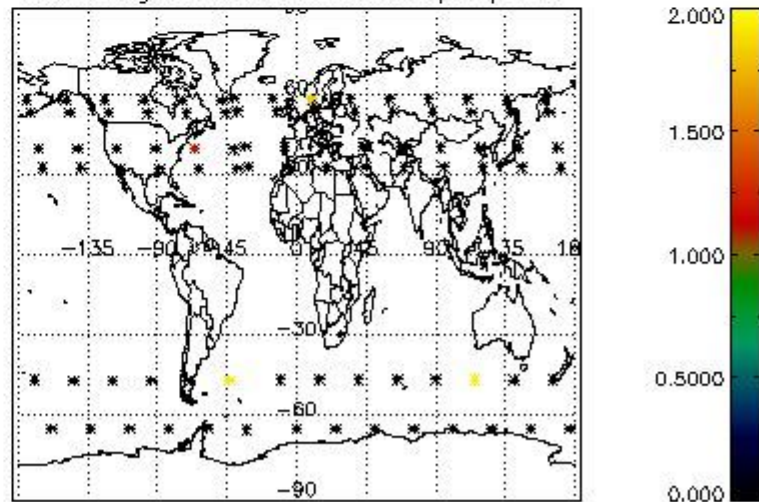
Percentage of datation errors per profile



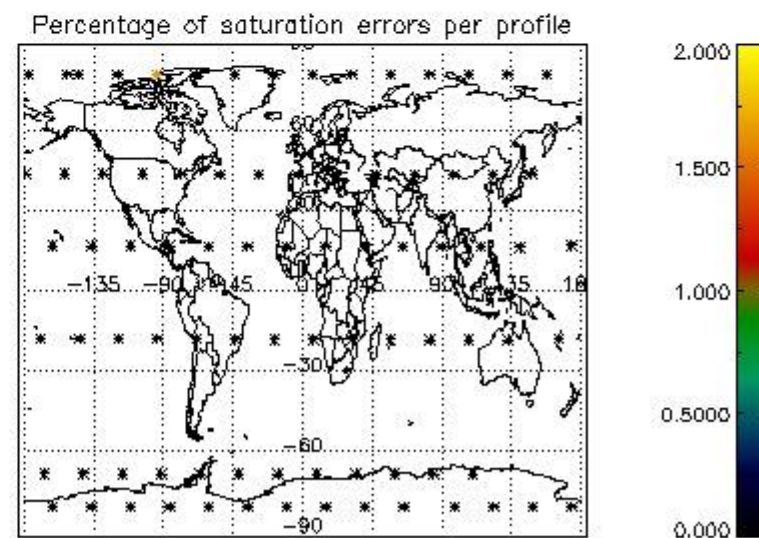
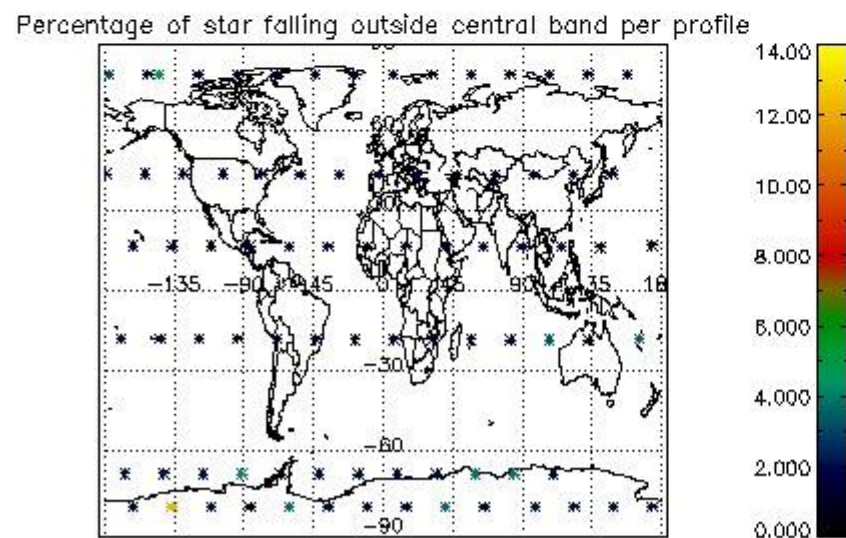
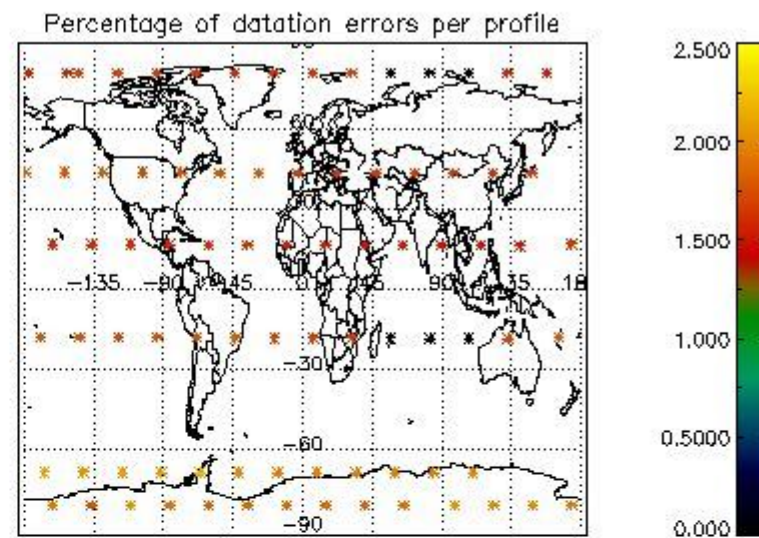
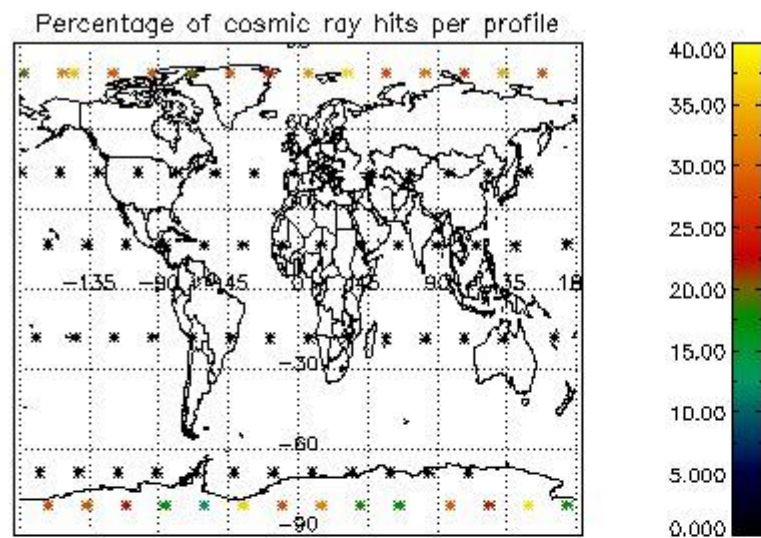
Percentage of star falling outside central band per profile



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.

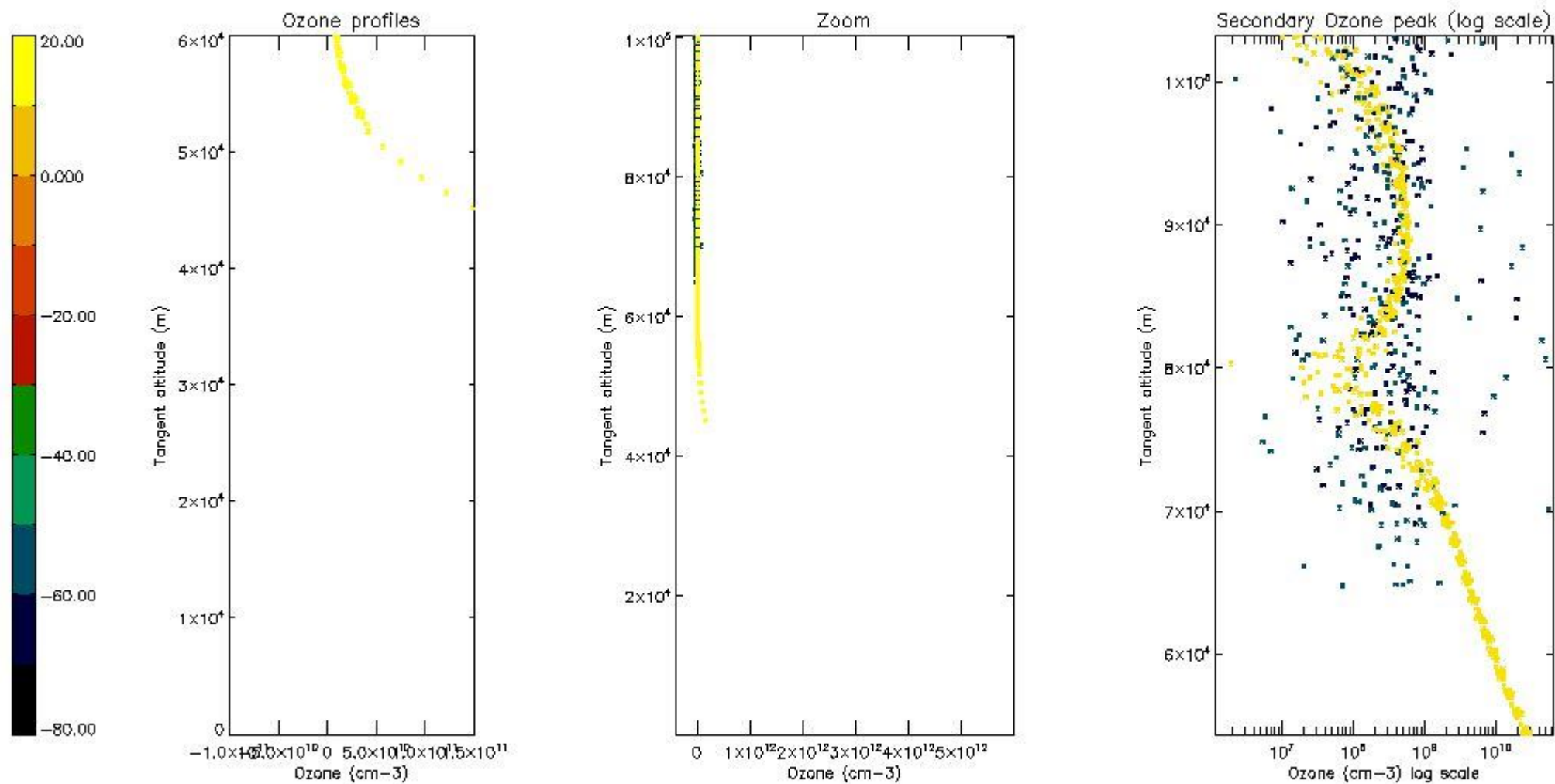
Criteria	% of total production
All STD	22
STD < 20	5



STD < 10	3
STD < 5	2

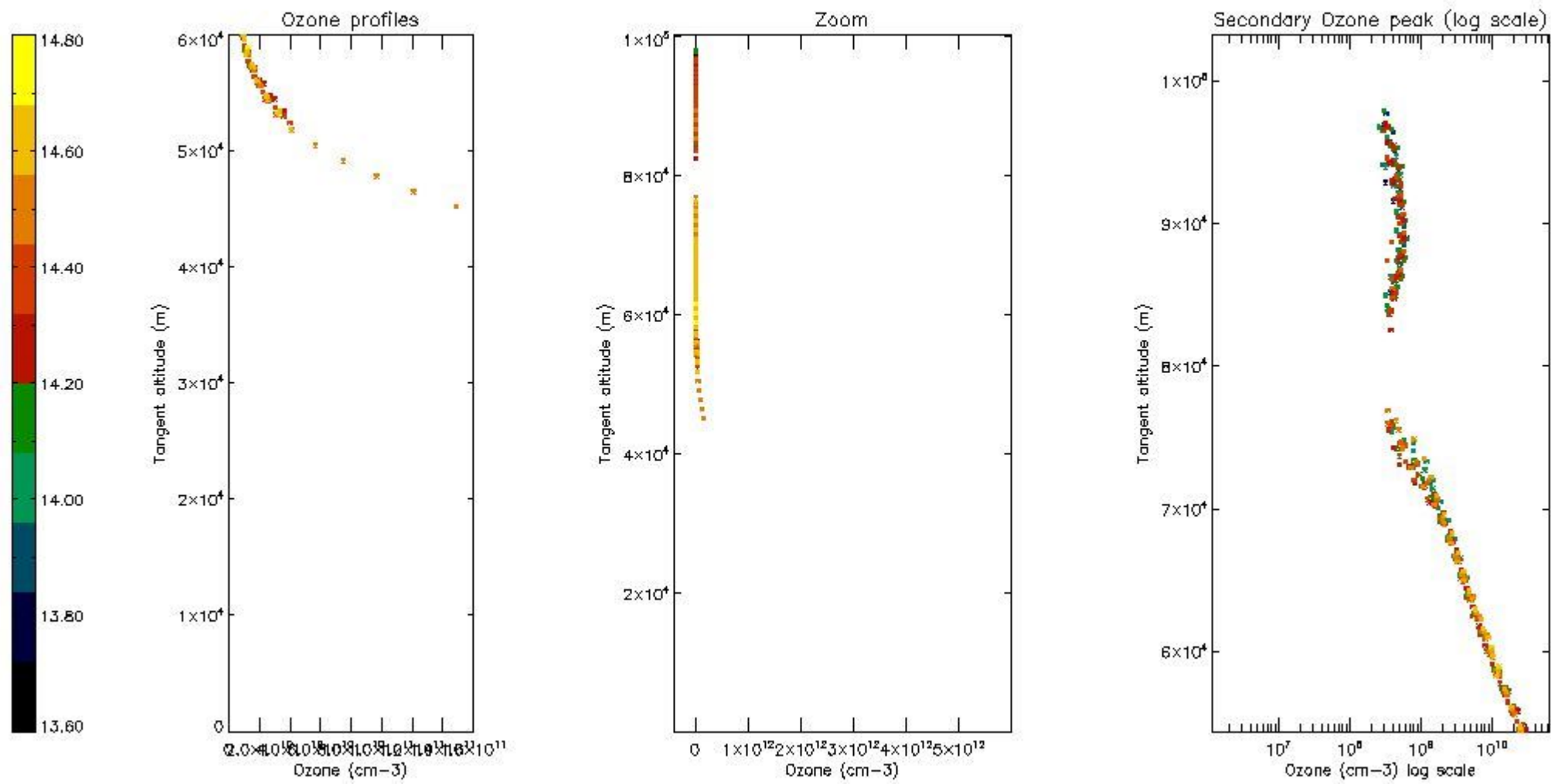
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

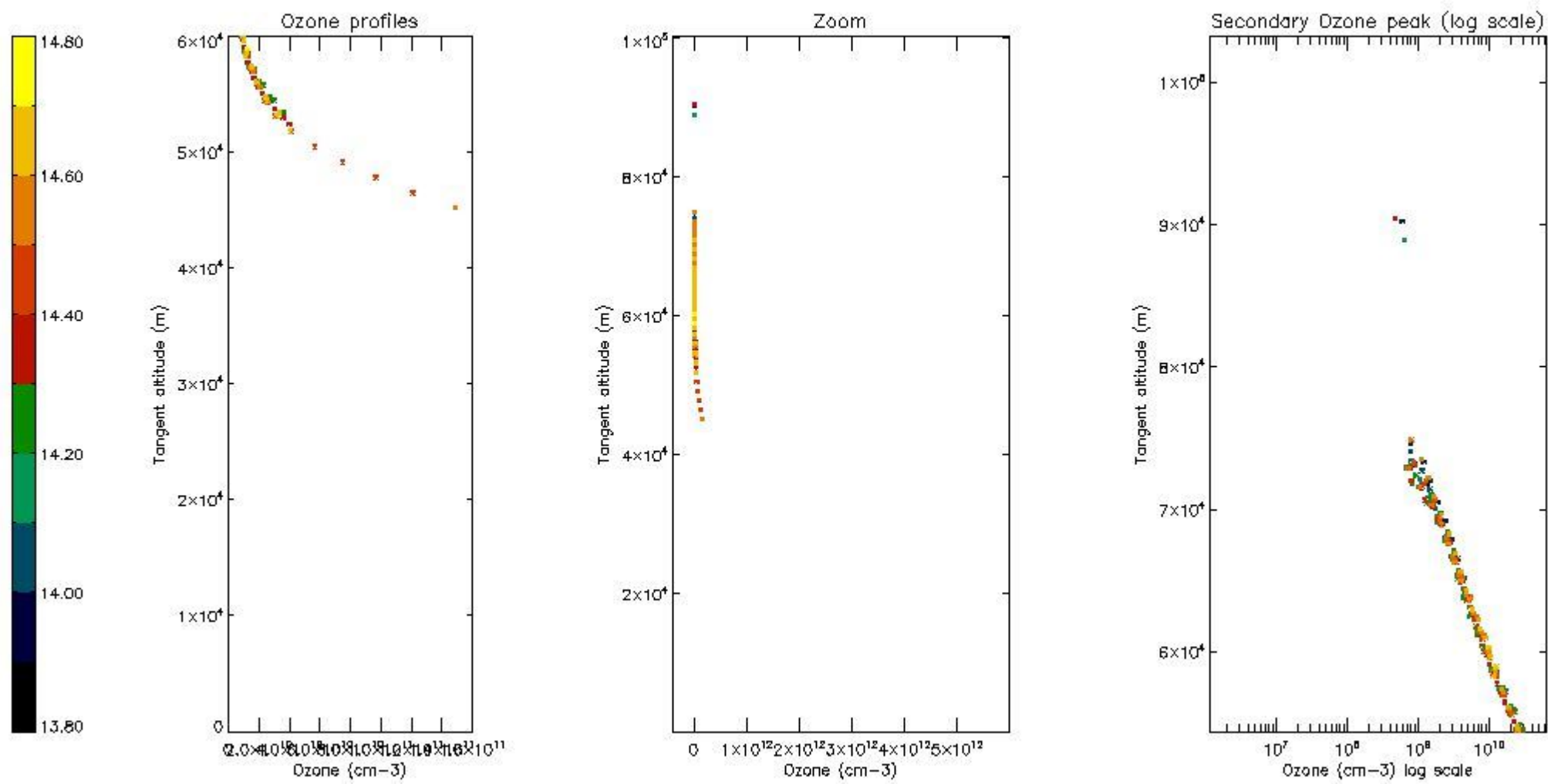
The colorbar represents the latitude.



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

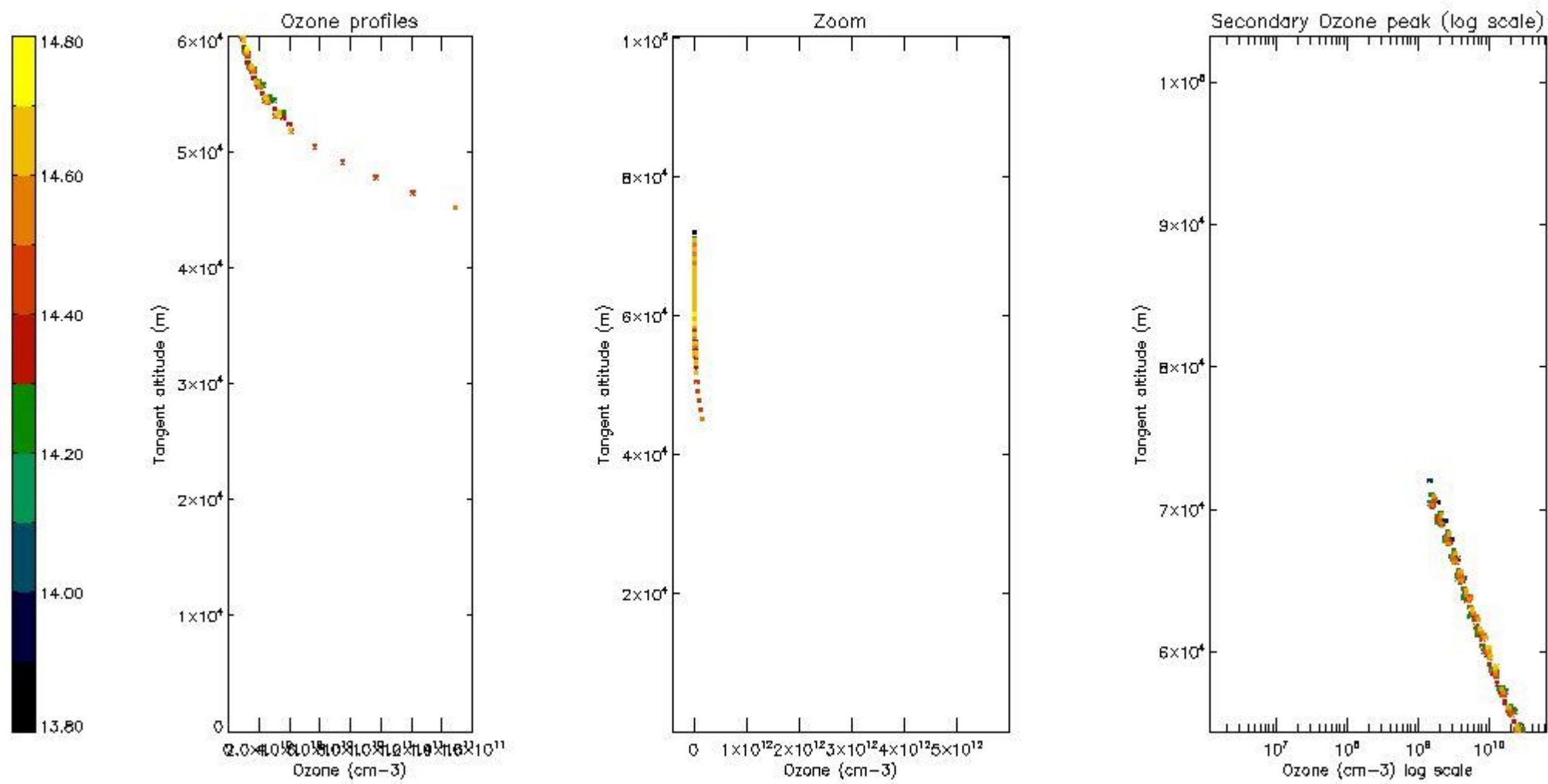
The colorbar represents the latitude.





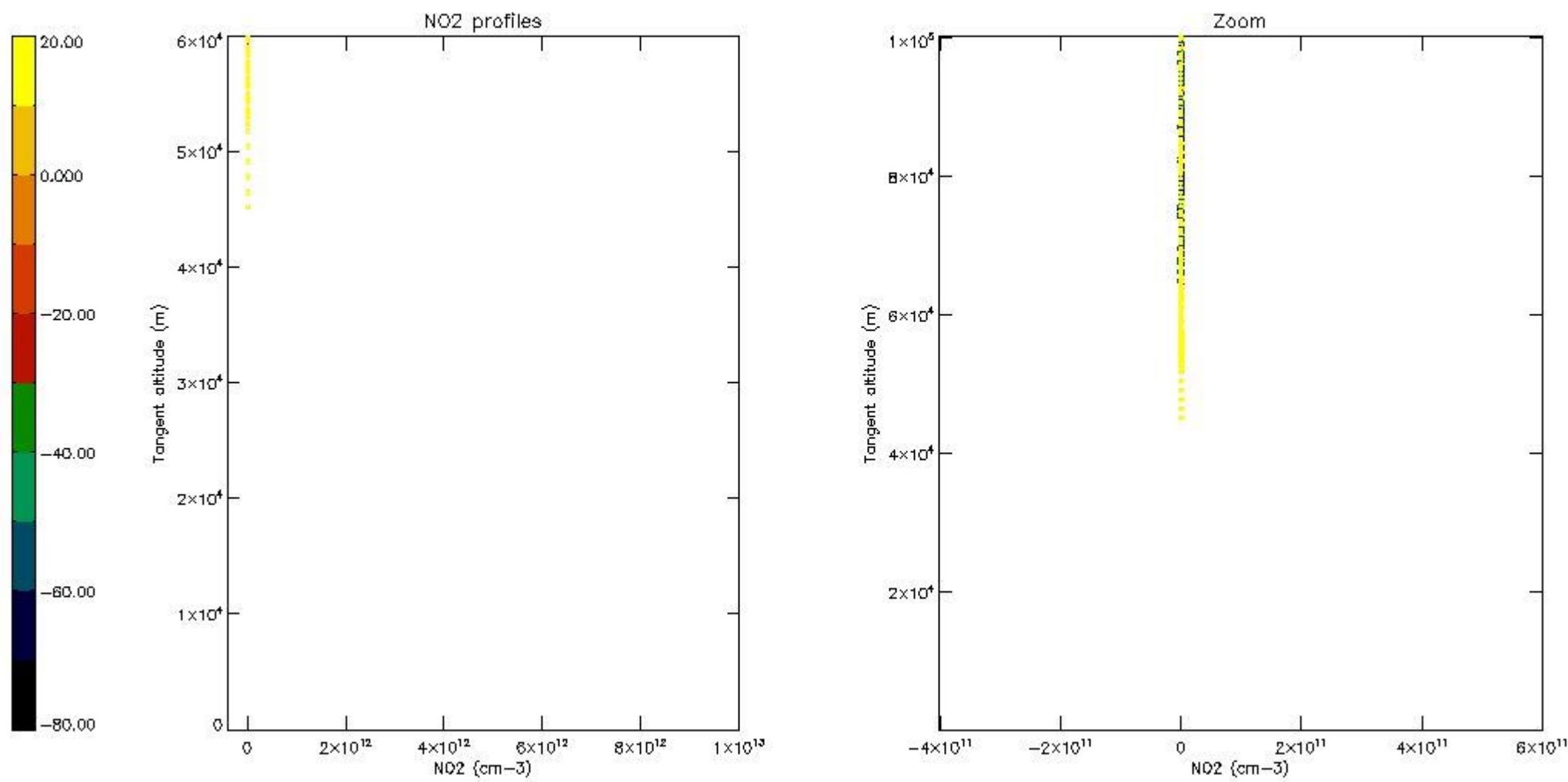
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



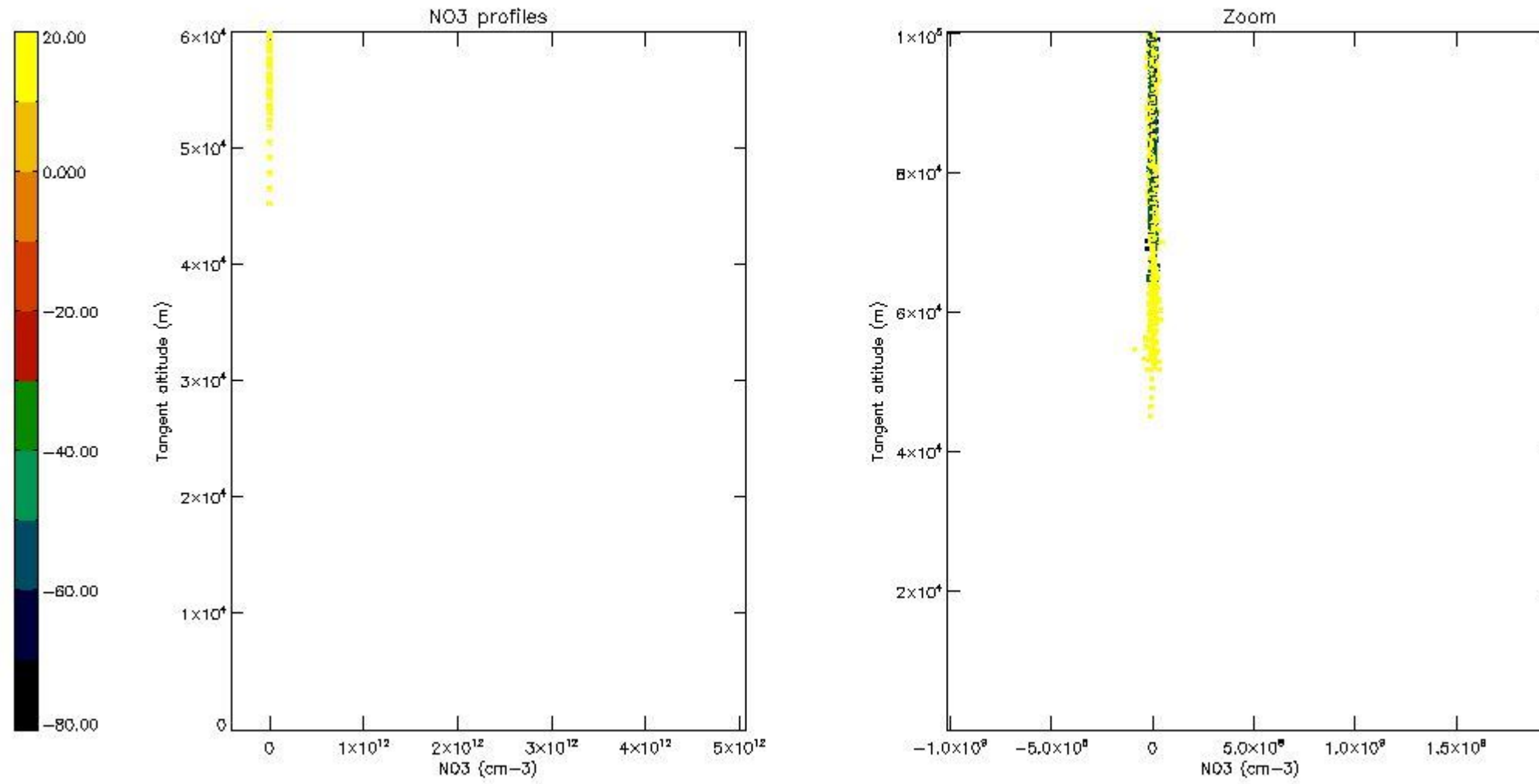
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

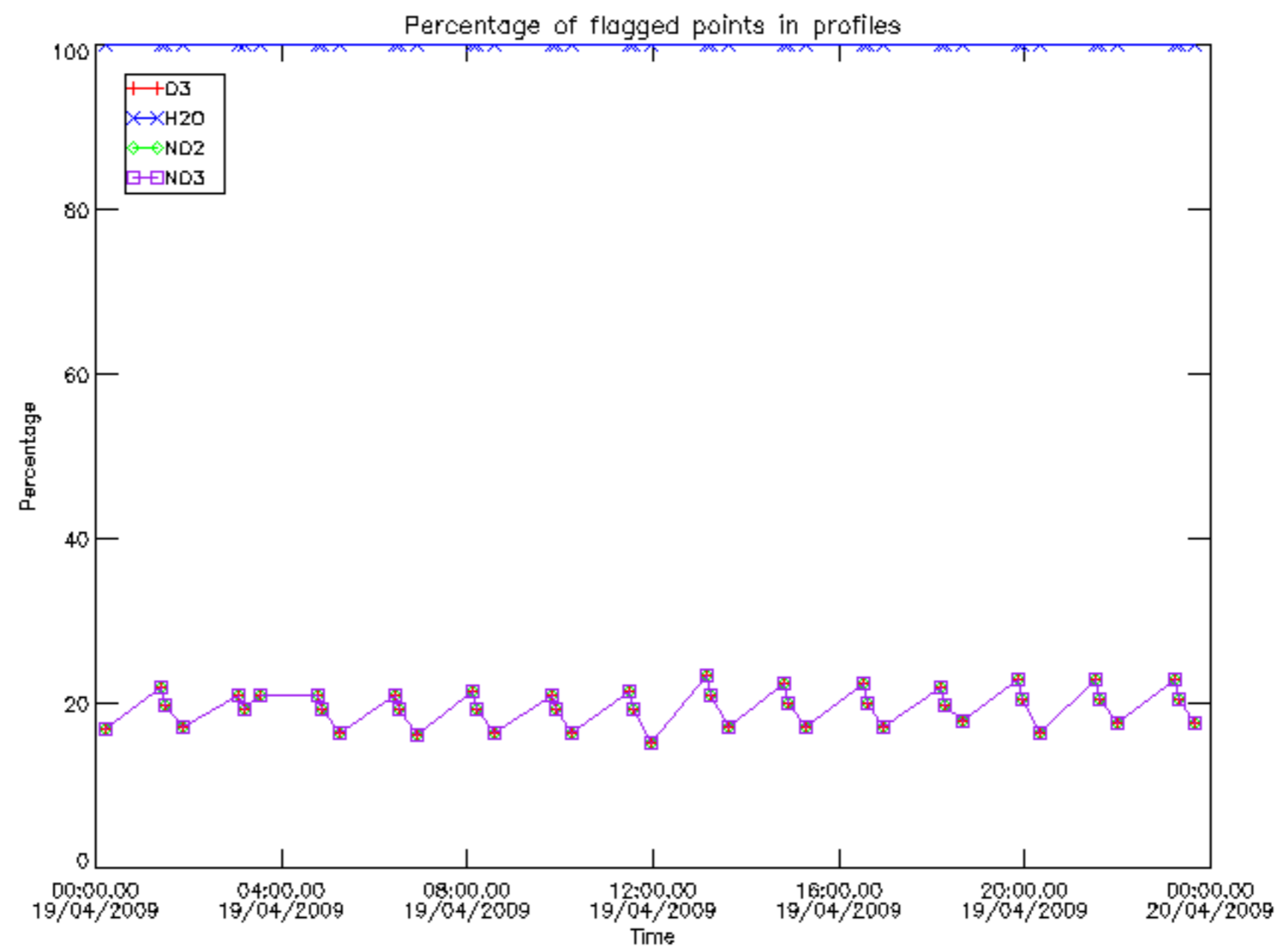


## 6. Auxiliary Data Files used for the production reported in section 2

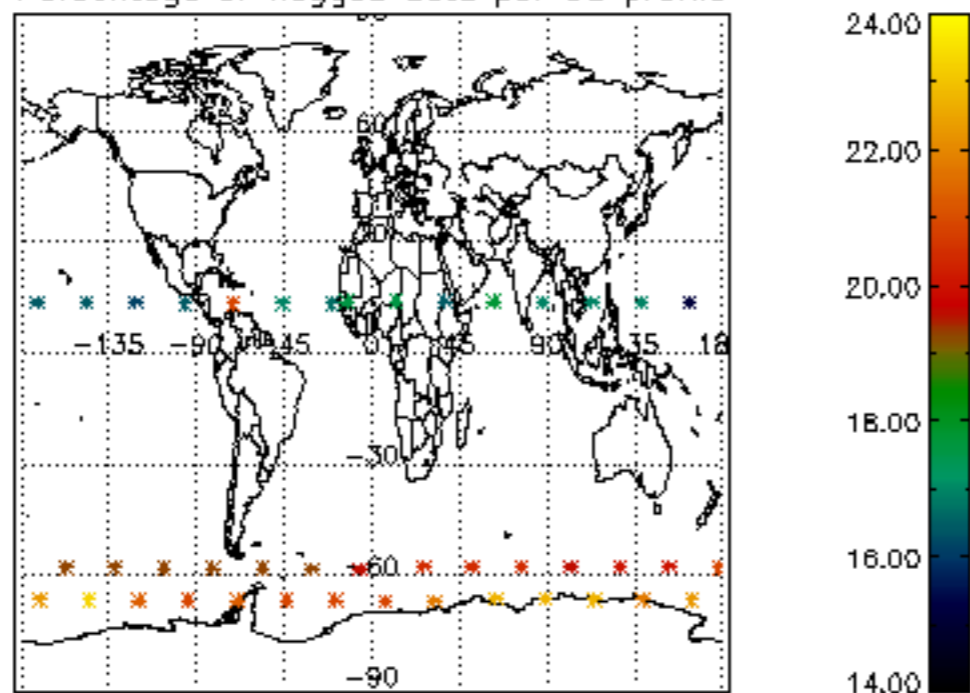
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-APR-2009 00:12:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-APR-2009 00:12:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-APR-2009 00:12:03

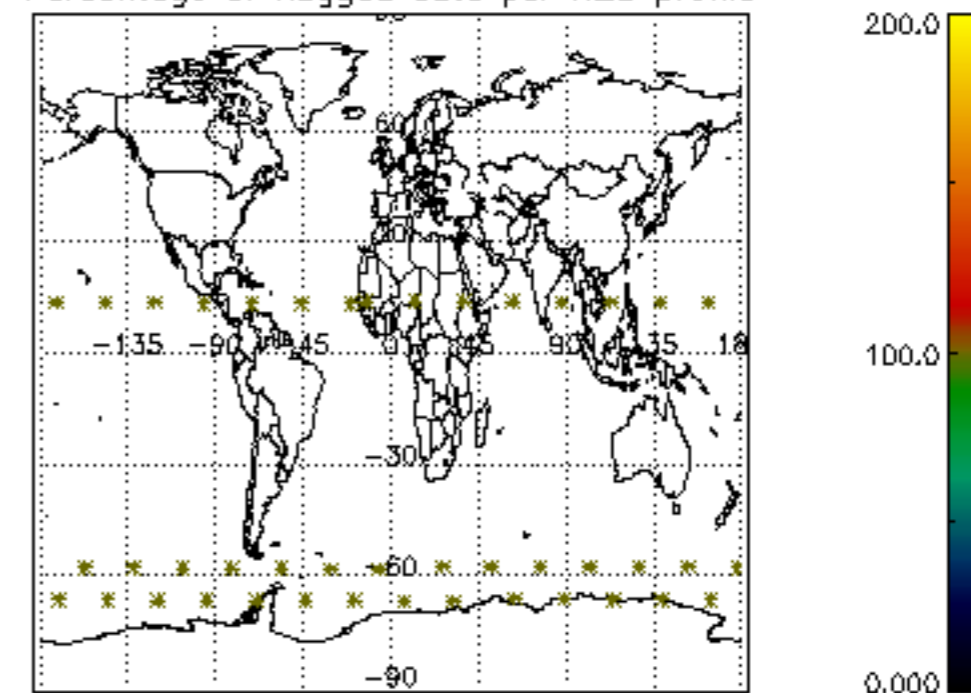




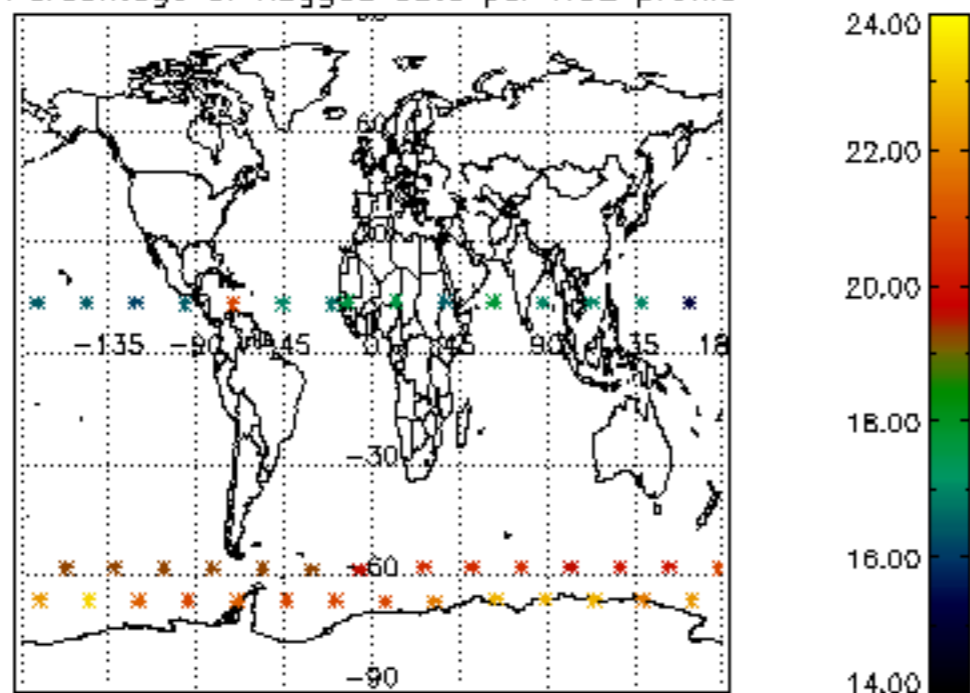
Percentage of flagged data per D3 profile



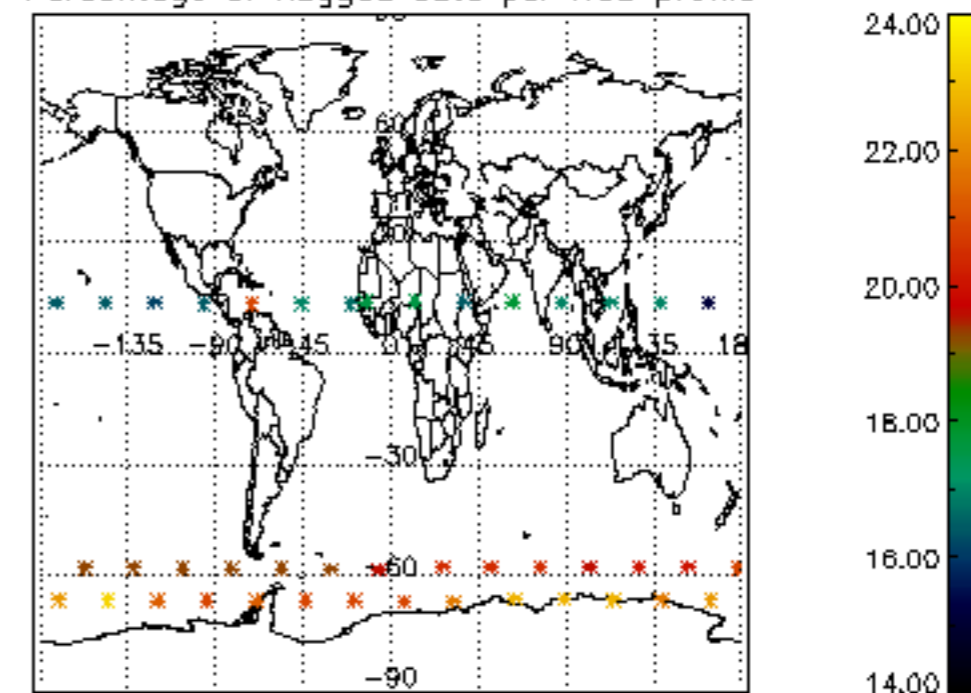
Percentage of flagged data per H2O profile

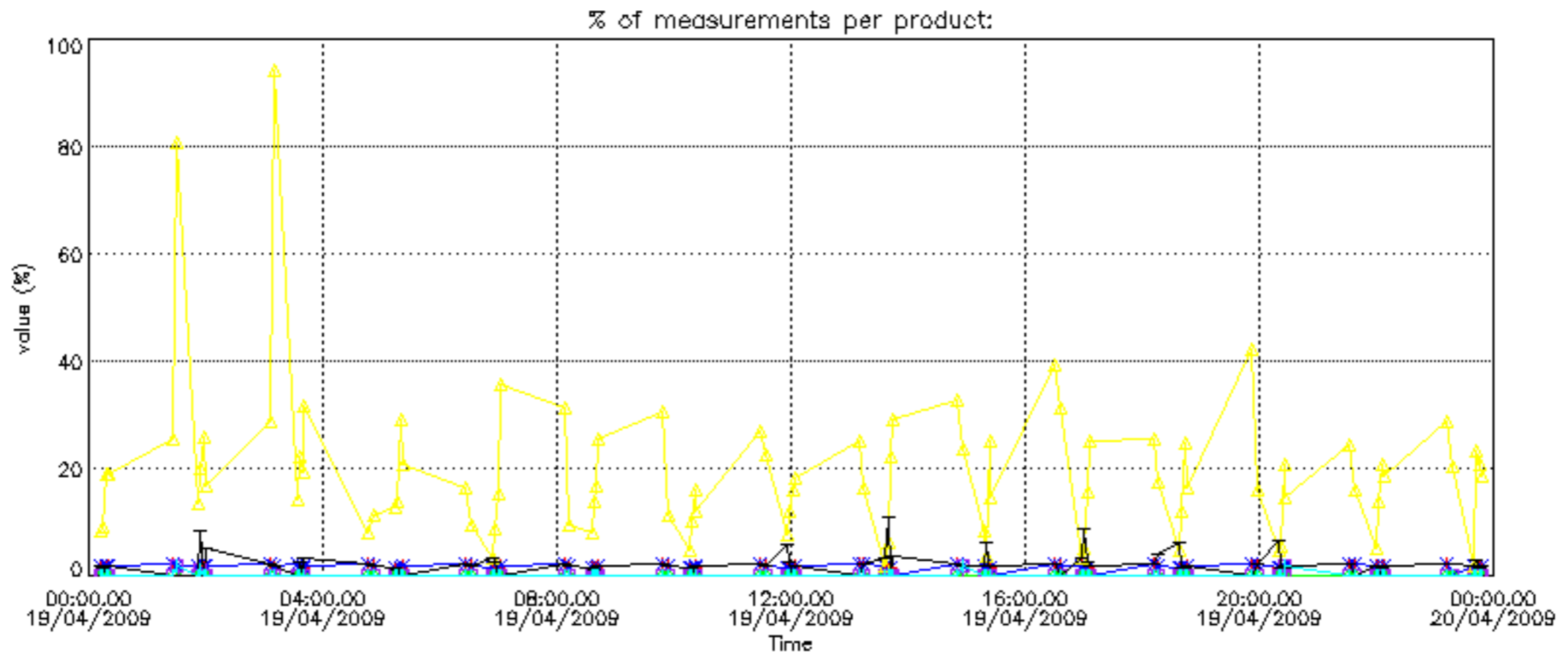


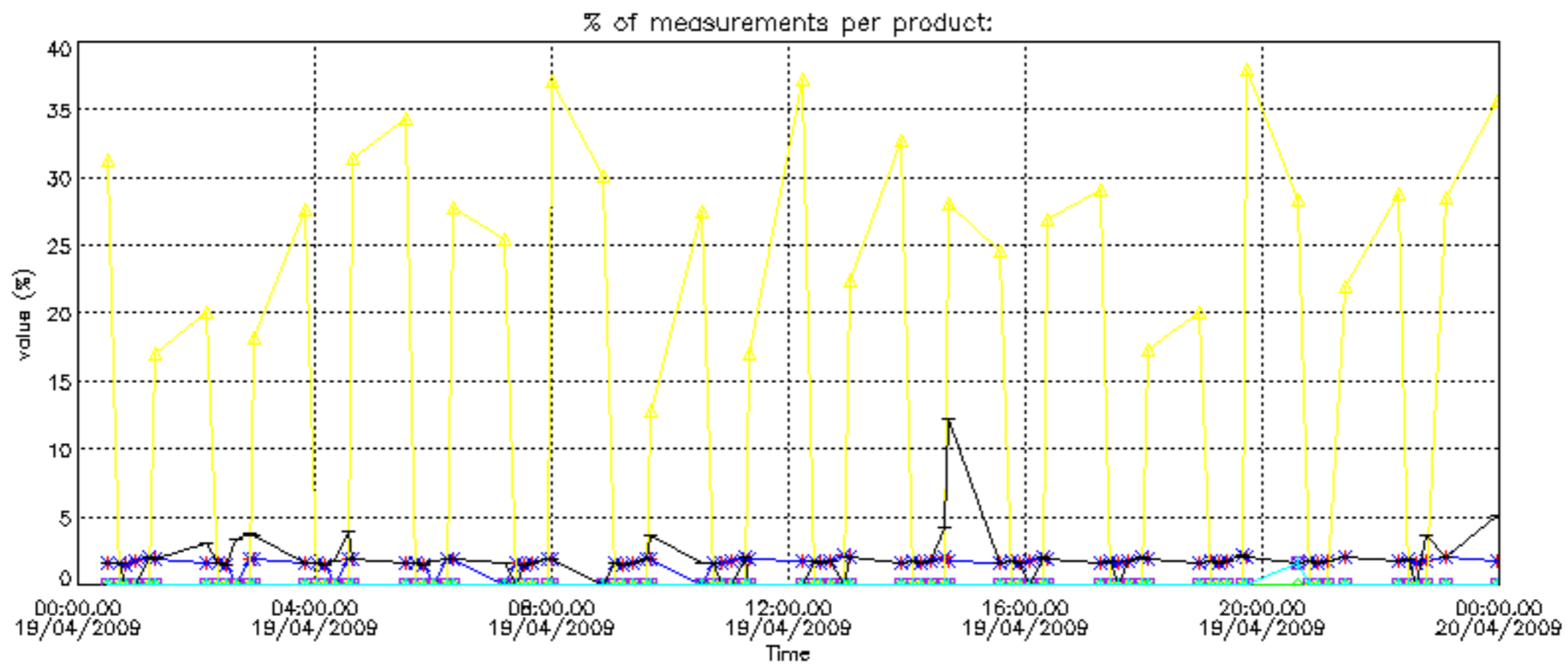
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

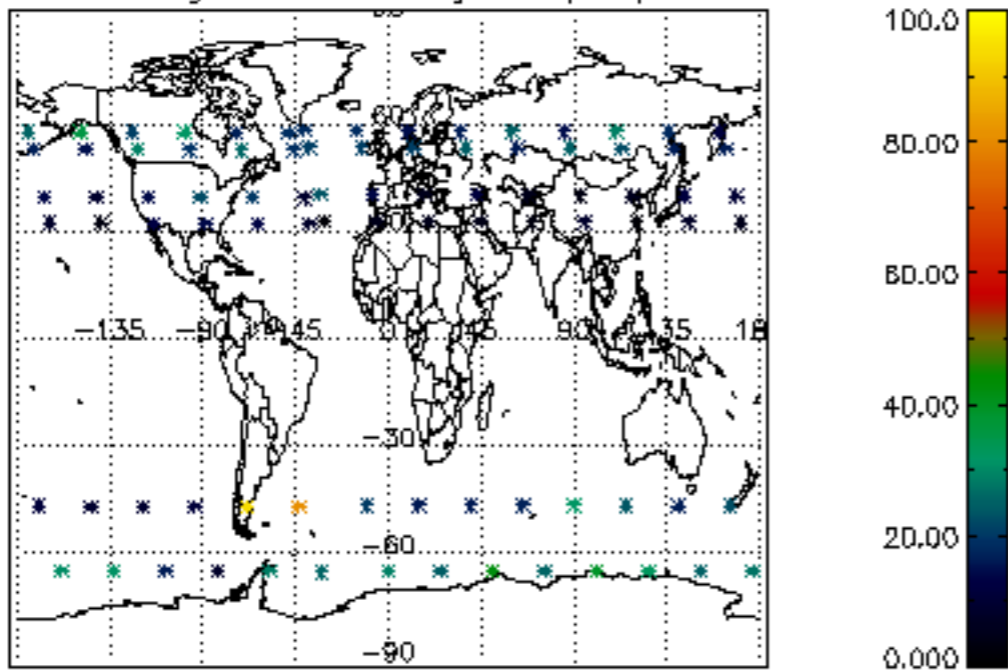




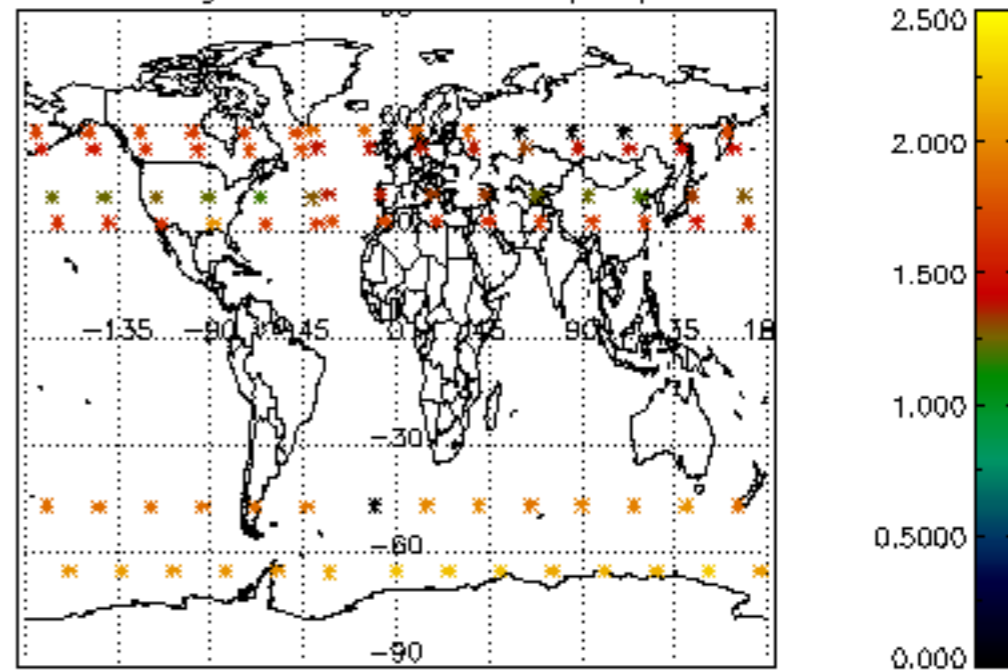




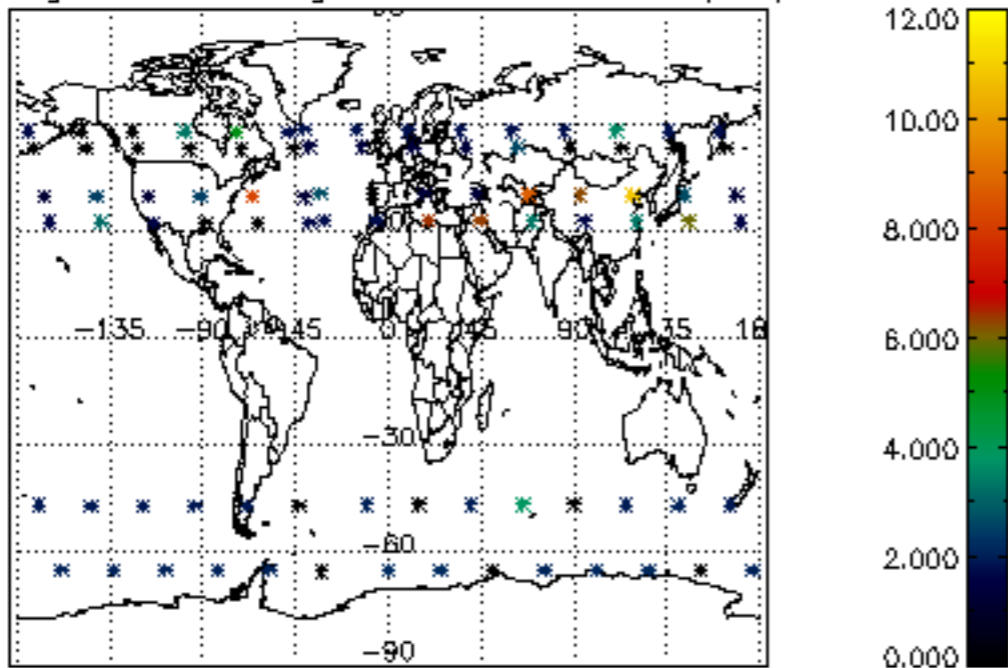
Percentage of cosmic ray hits per profile



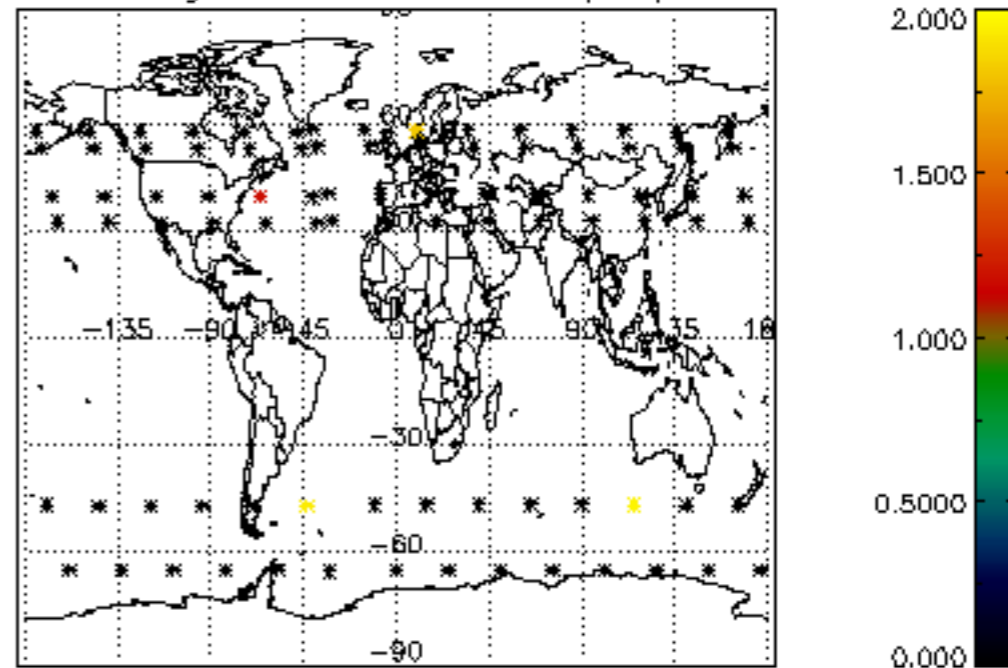
Percentage of datation errors per profile



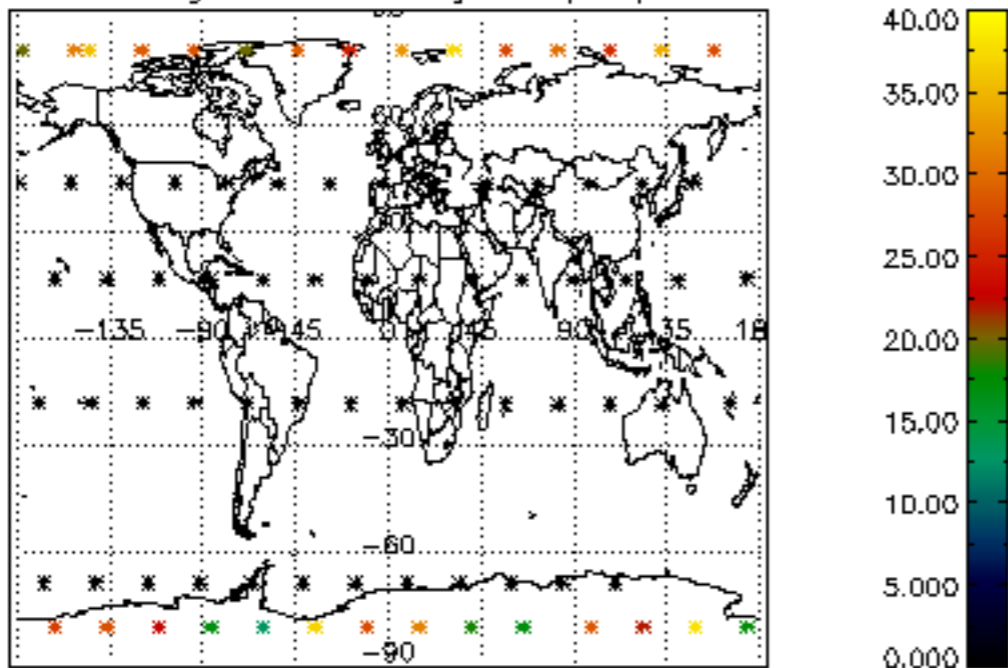
Percentage of star falling outside central band per profile



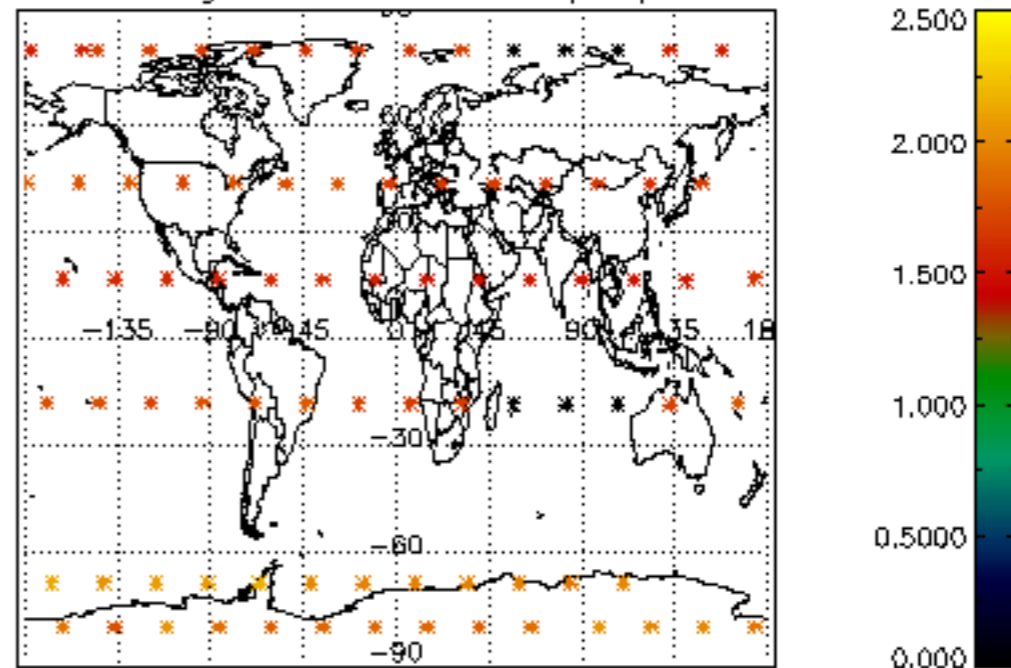
Percentage of saturation errors per profile



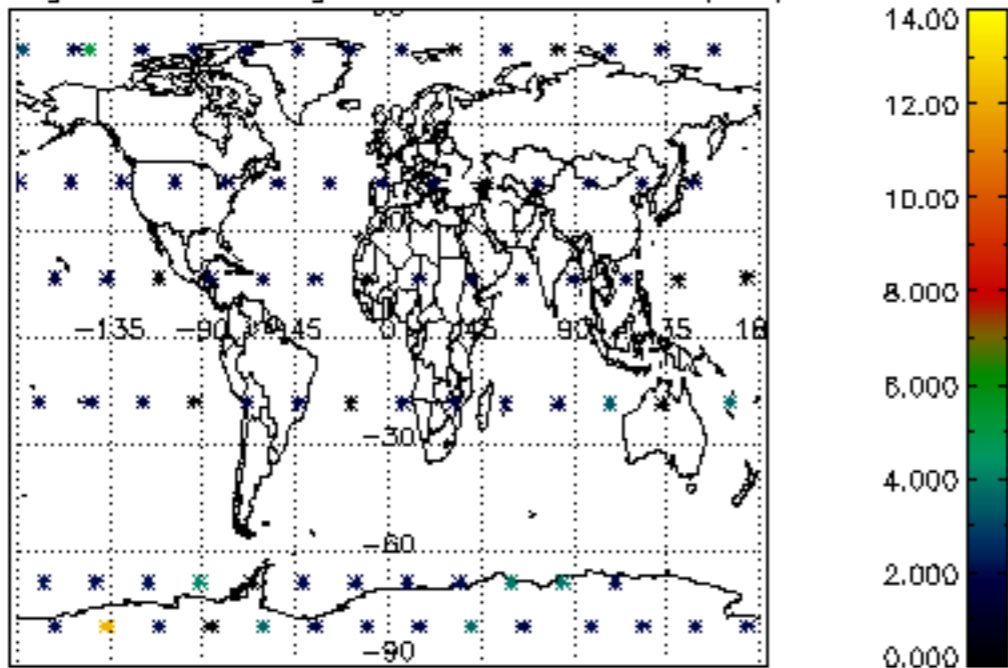
Percentage of cosmic ray hits per profile



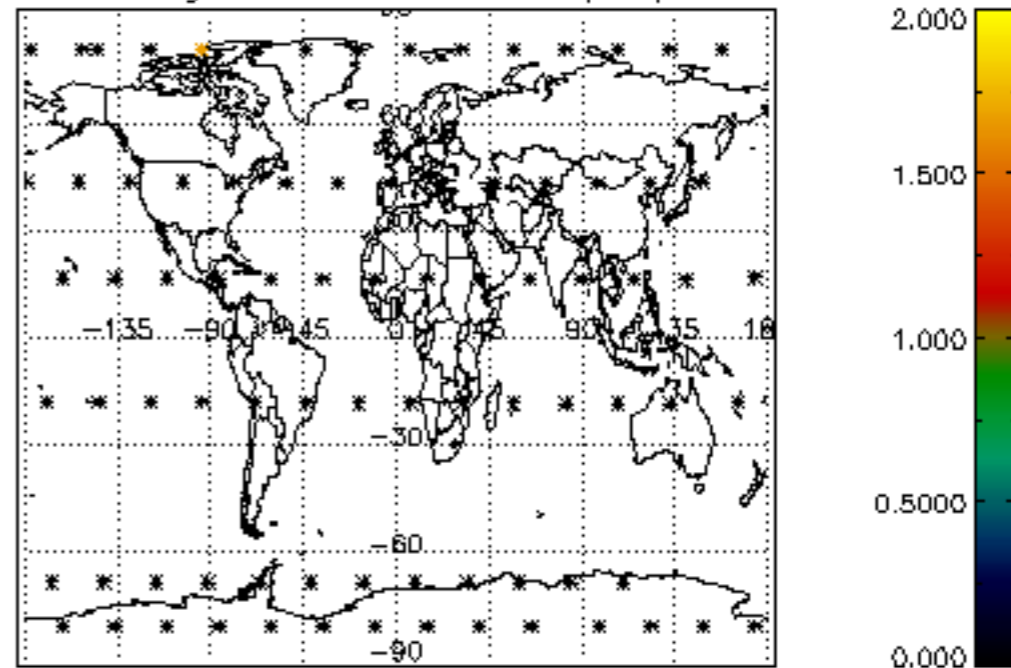
Percentage of datation errors per profile

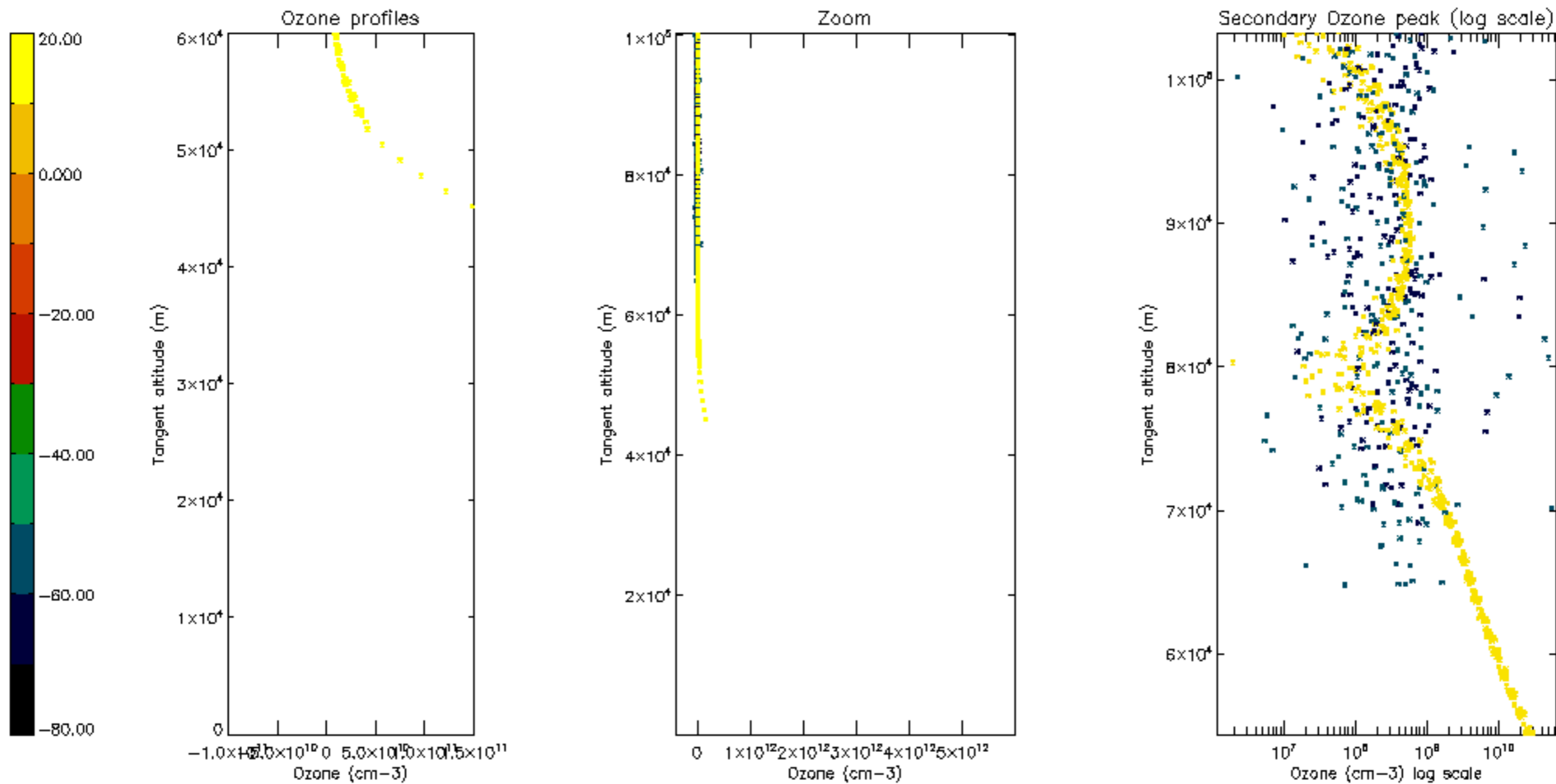


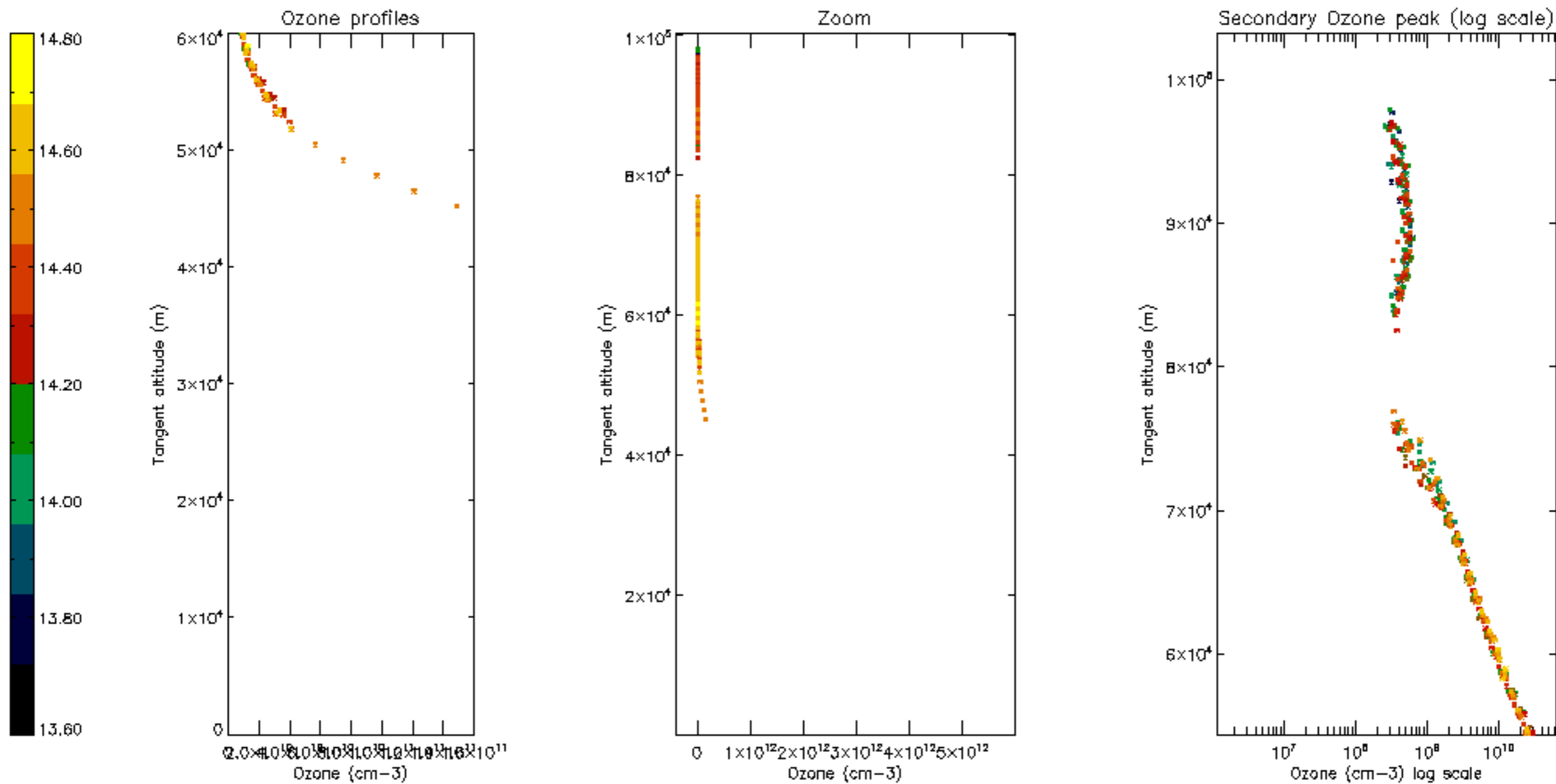
Percentage of star falling outside central band per profile



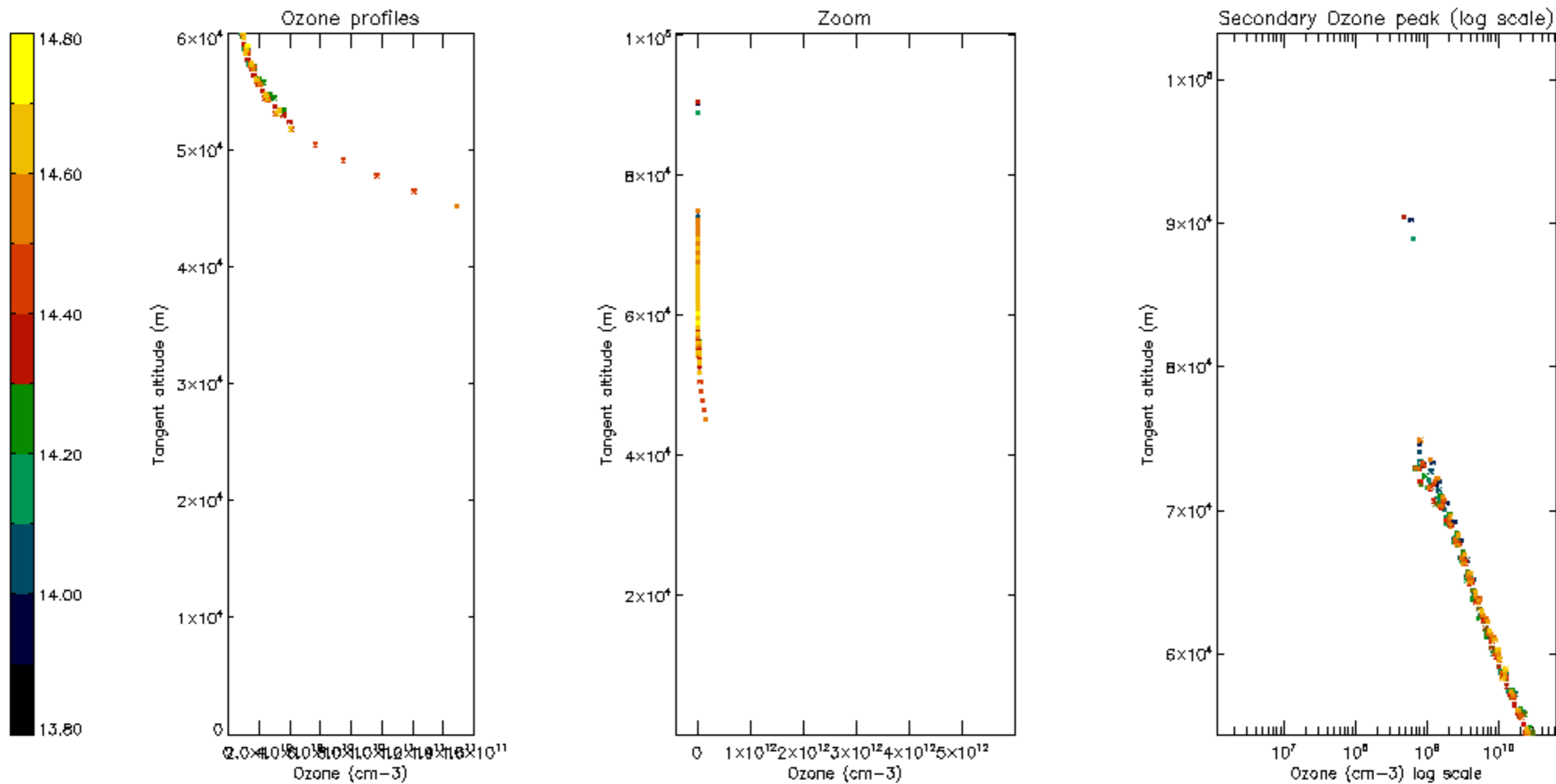
Percentage of saturation errors per profile

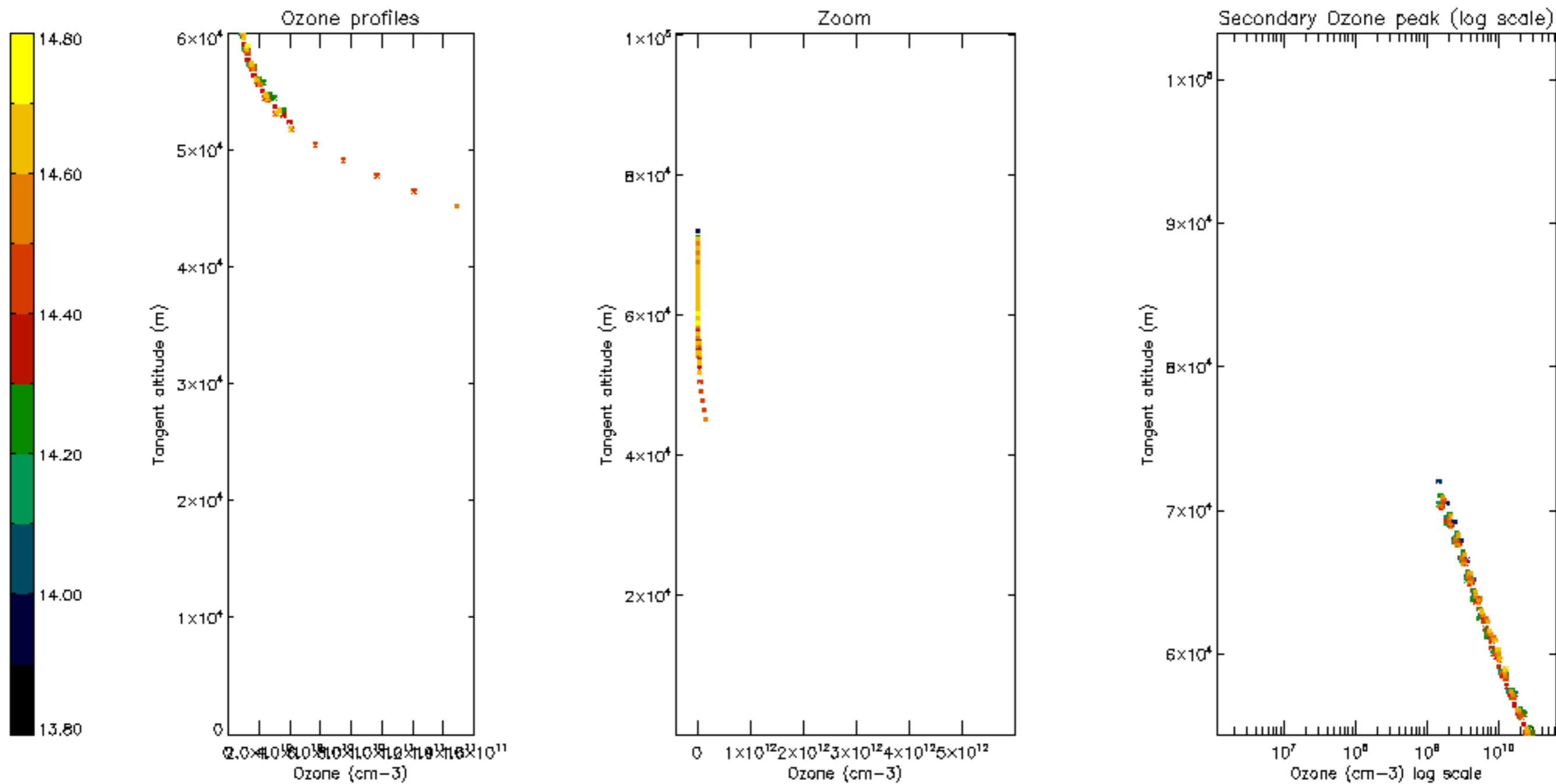


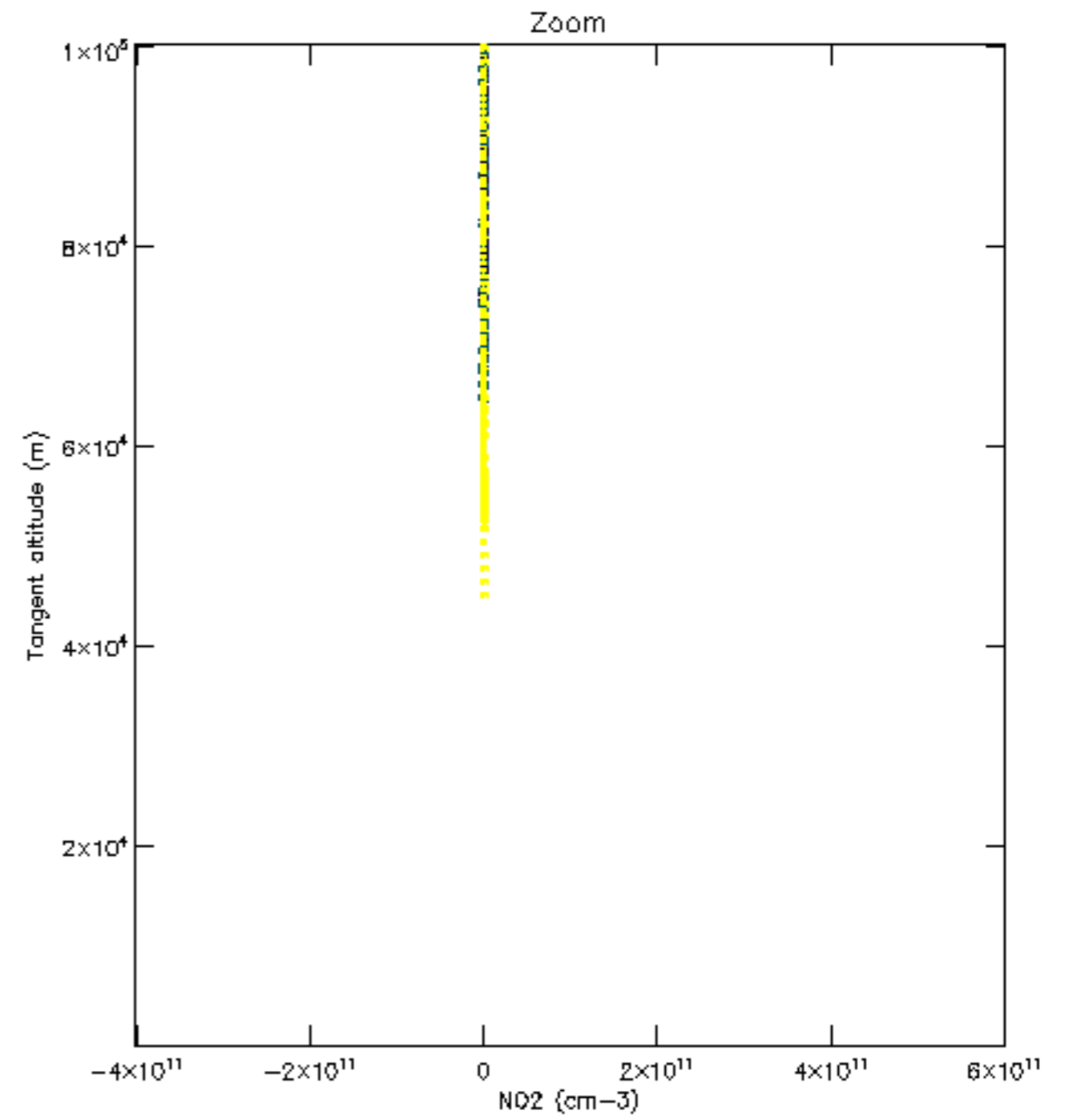
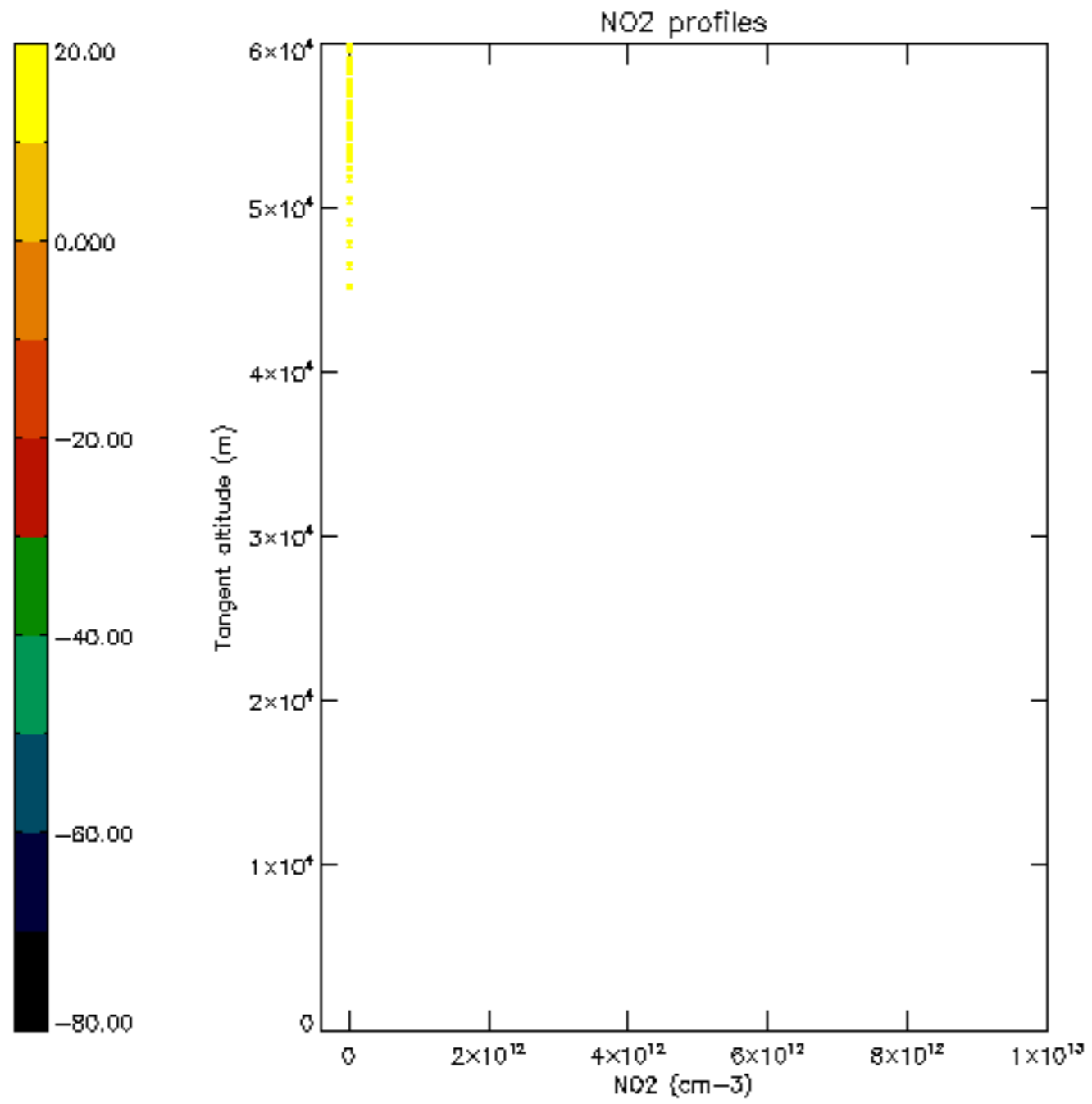


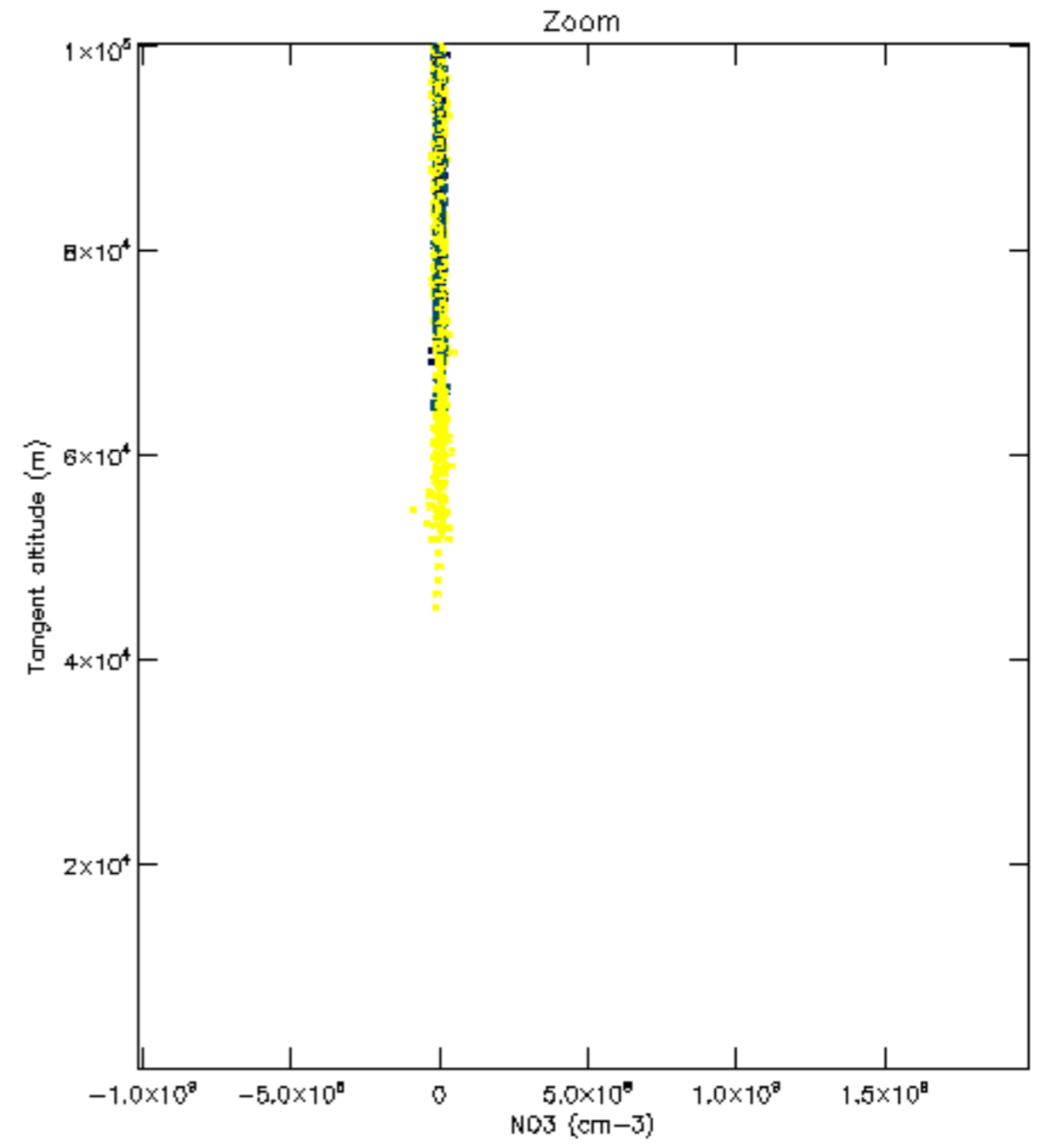
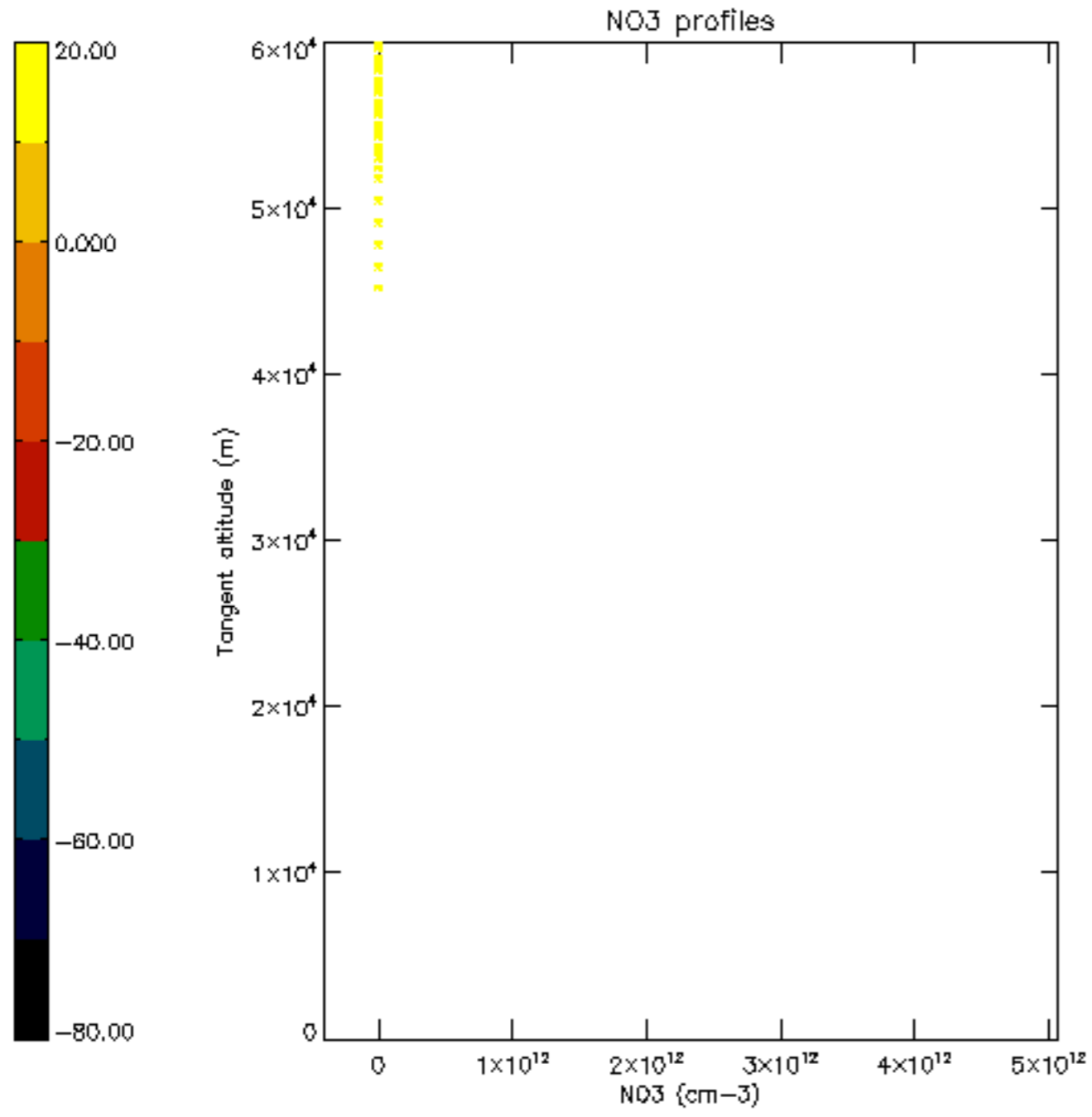




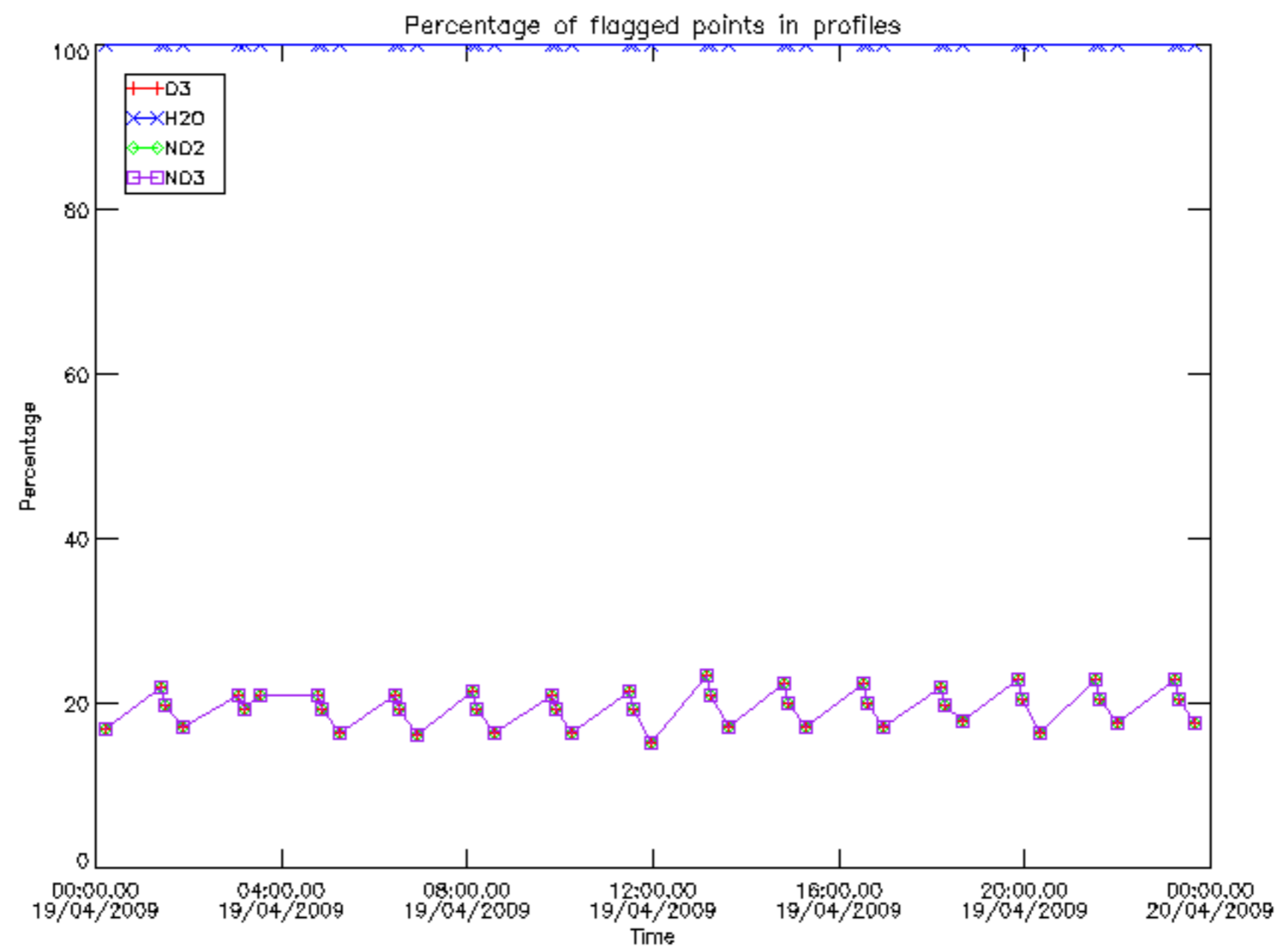




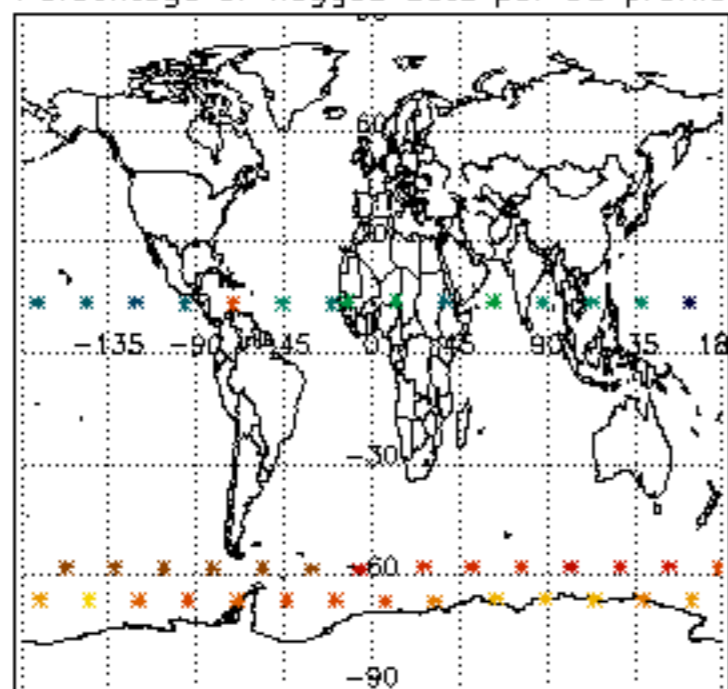




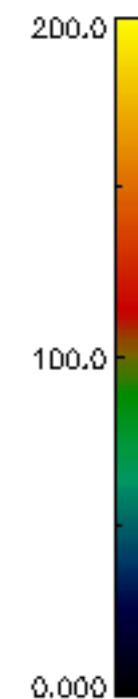
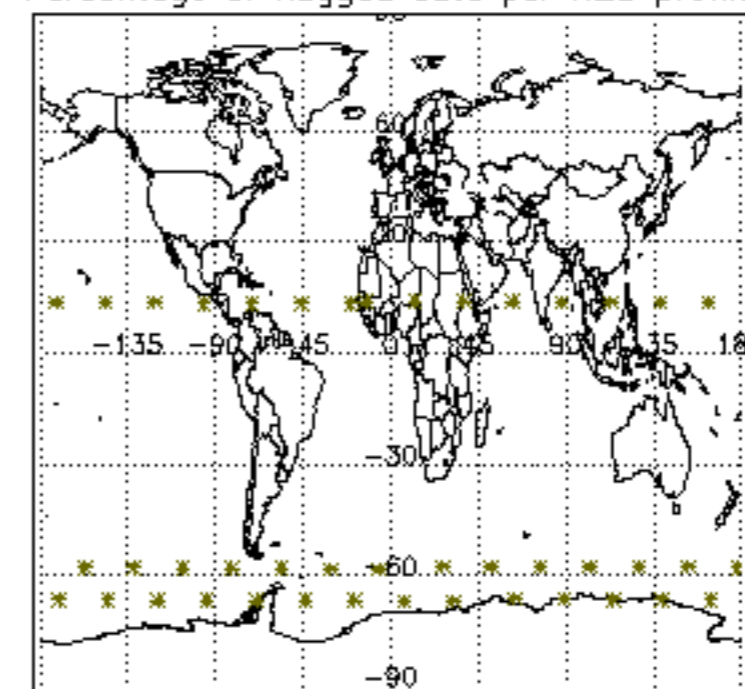




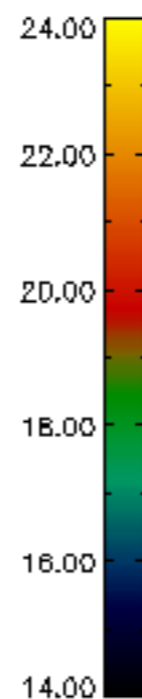
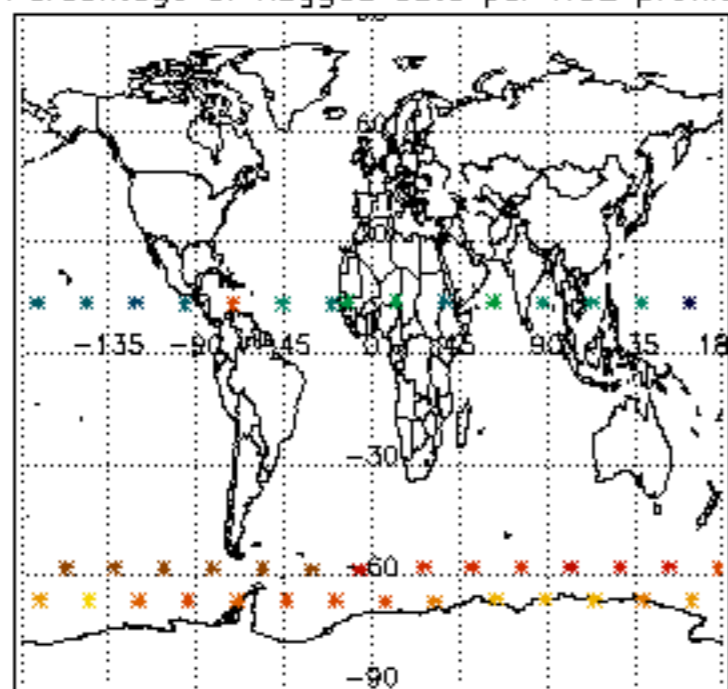
Percentage of flagged data per D3 profile



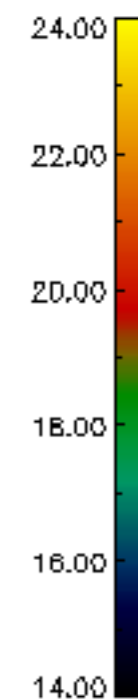
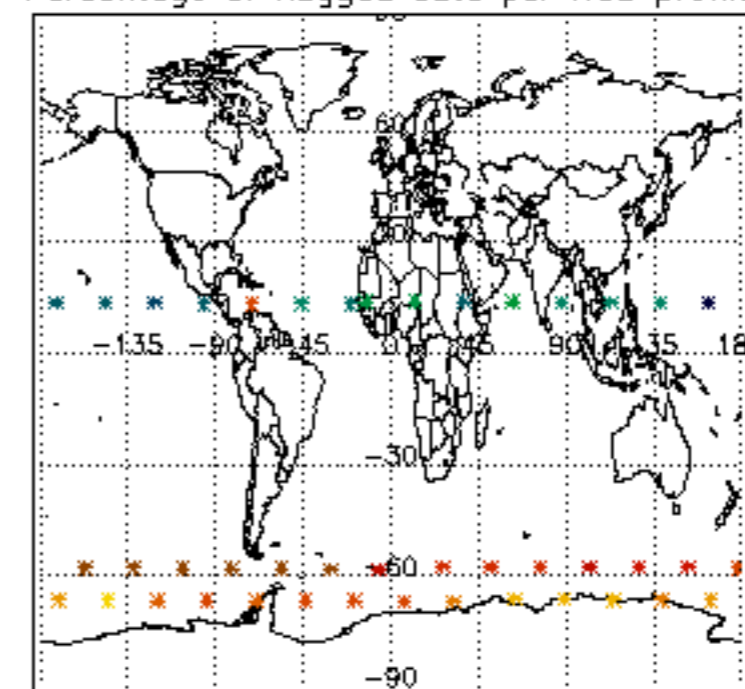
Percentage of flagged data per H2O profile

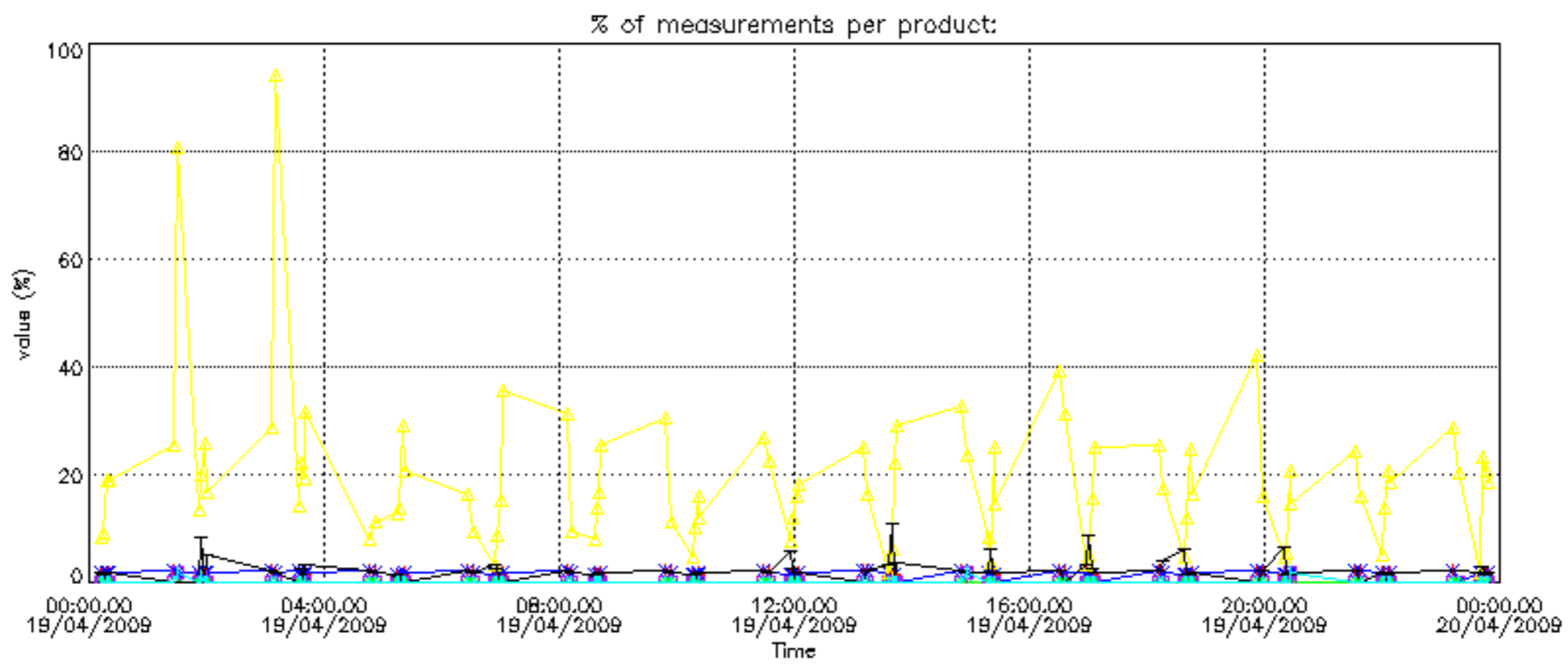


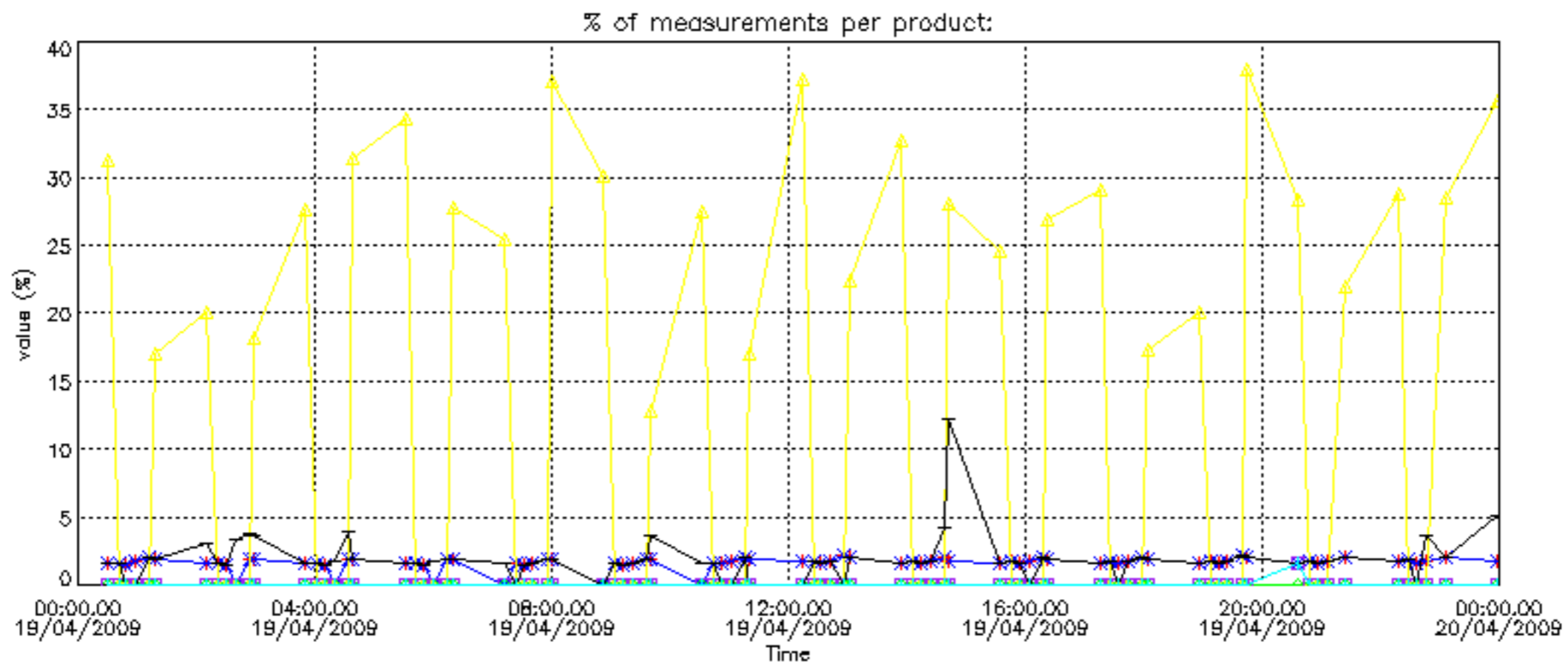
Percentage of flagged data per NO2 profile



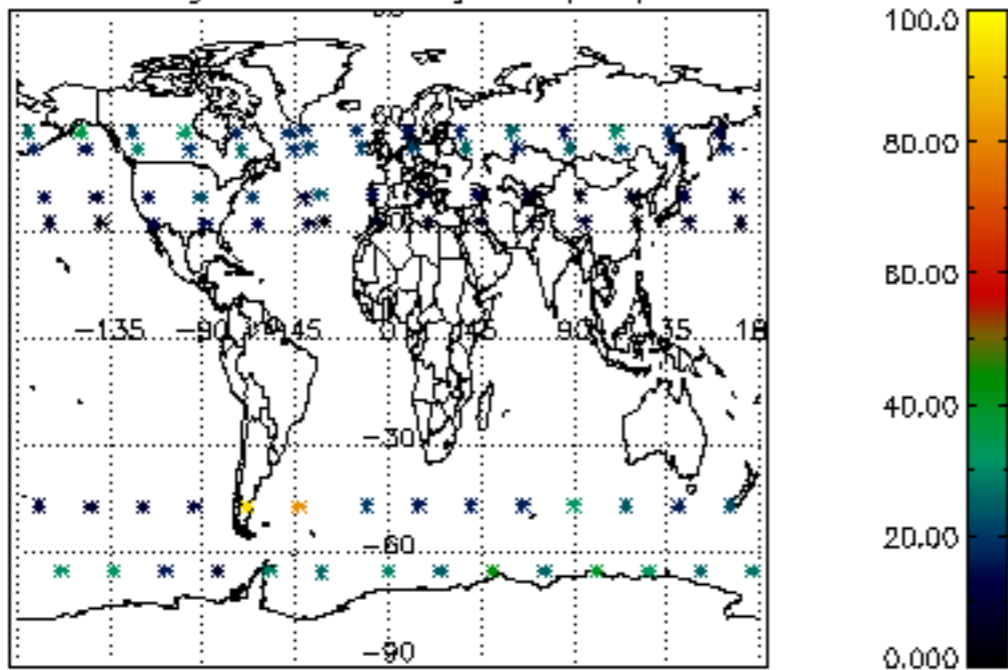
Percentage of flagged data per NO3 profile



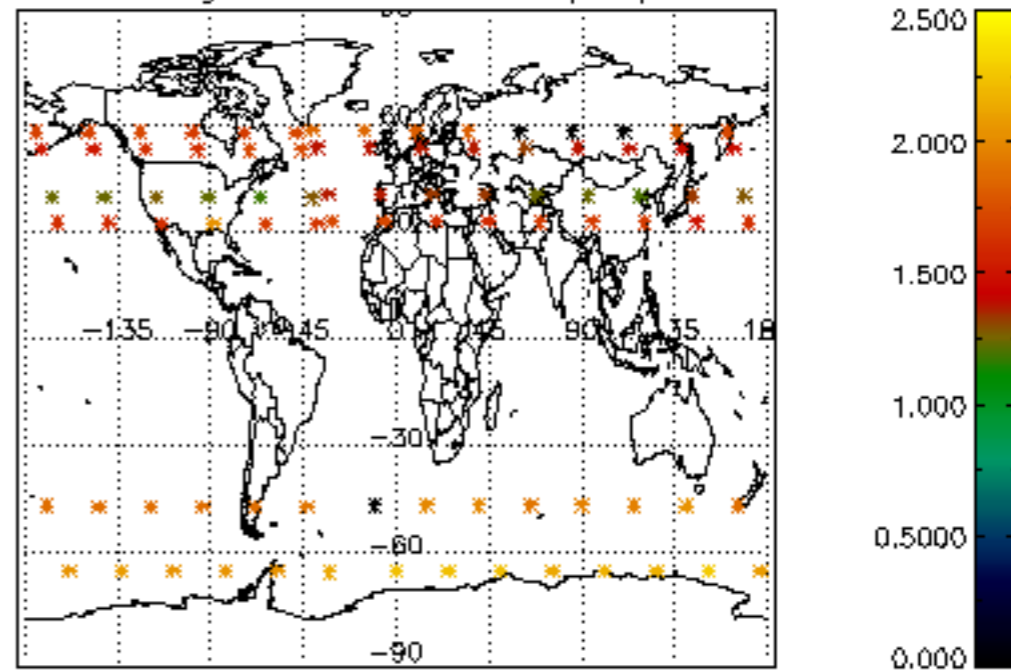




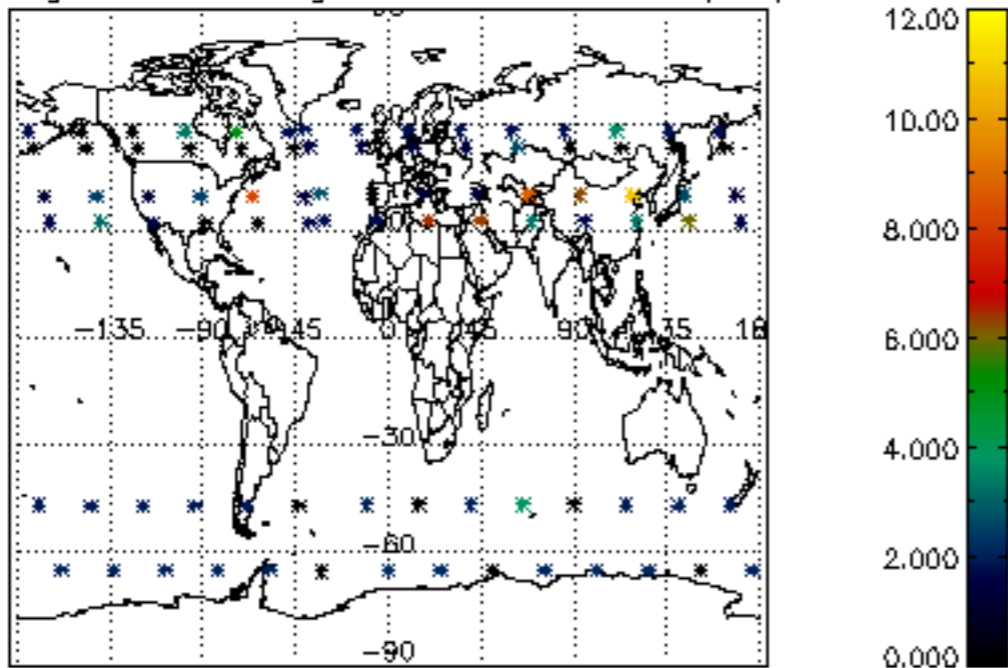
Percentage of cosmic ray hits per profile



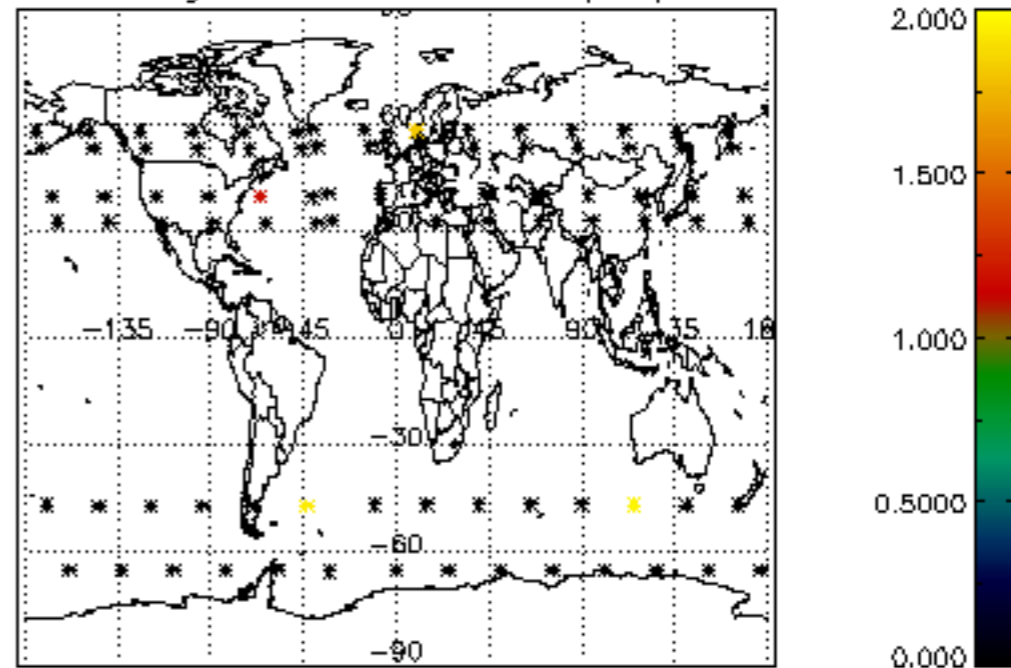
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

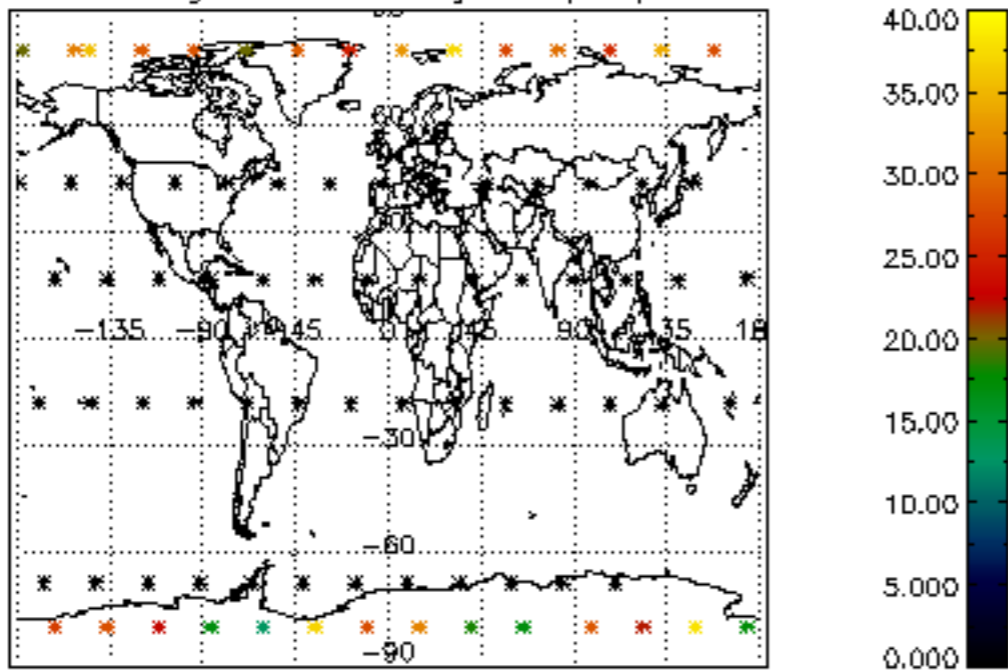


Percentage of saturation errors per profile

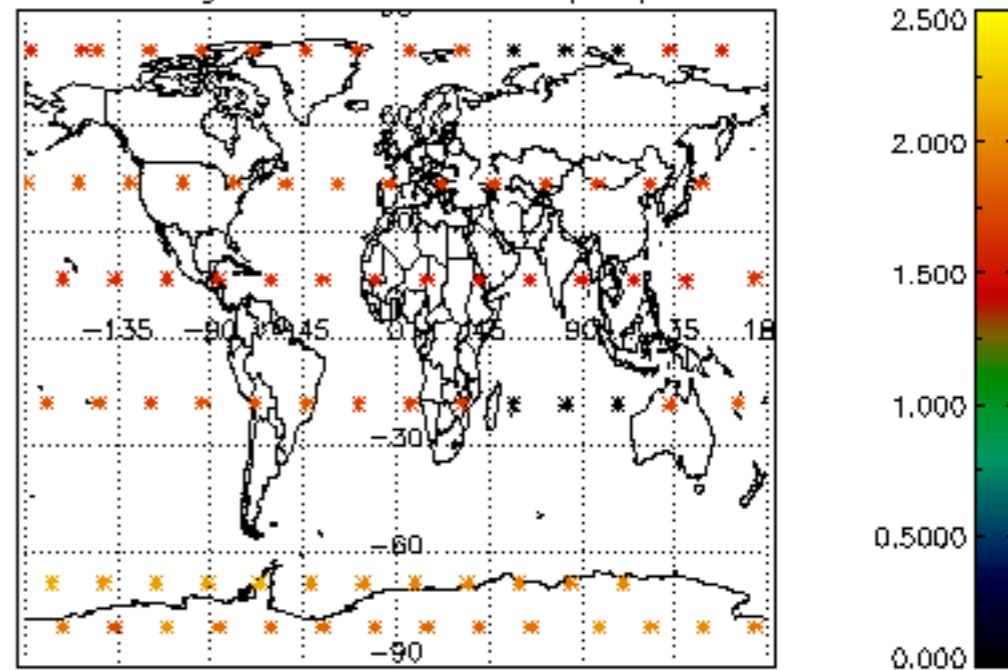




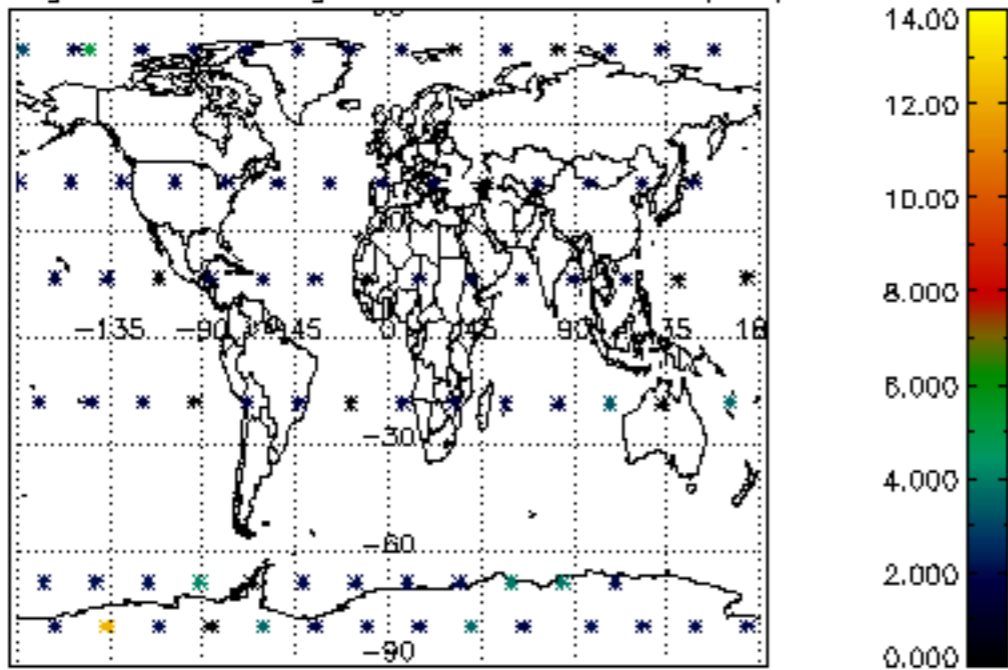
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

