

GOMOS Daily Report 14-OCT-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	17OCT2010 04:46:41
Data source version	GOMOS/5.01
Start time of products	14OCT2010 00:13:51
Stop time of products	14OCT2010 23:52:51
Store outputs in DB	Yes
Nb of level 1b prods	81
Nb of prods with errors	1

2. Summary of products arrived in PCF (Product Control Facility)

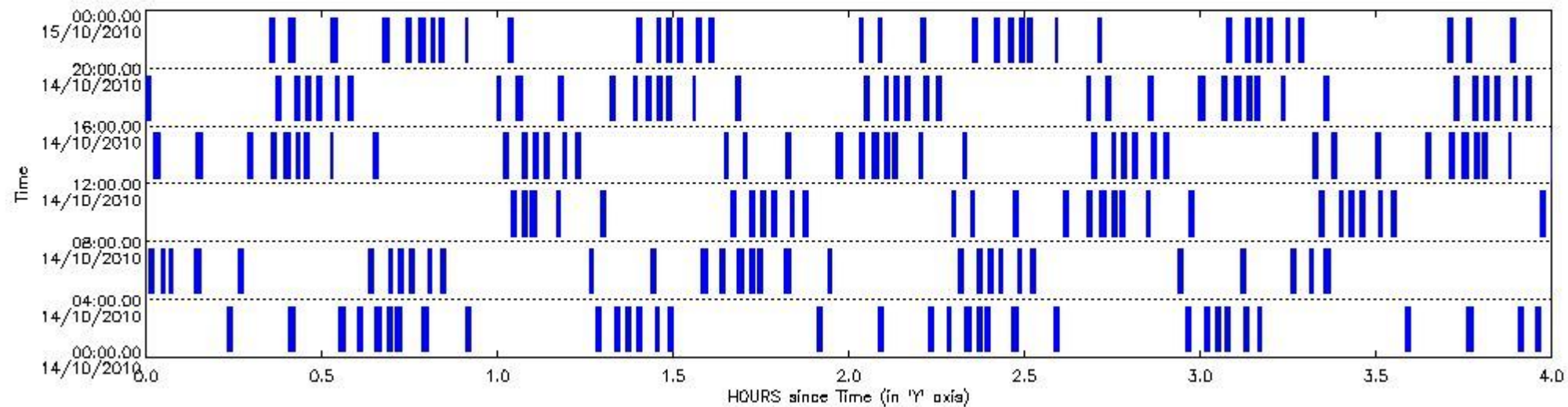
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

No missing products.

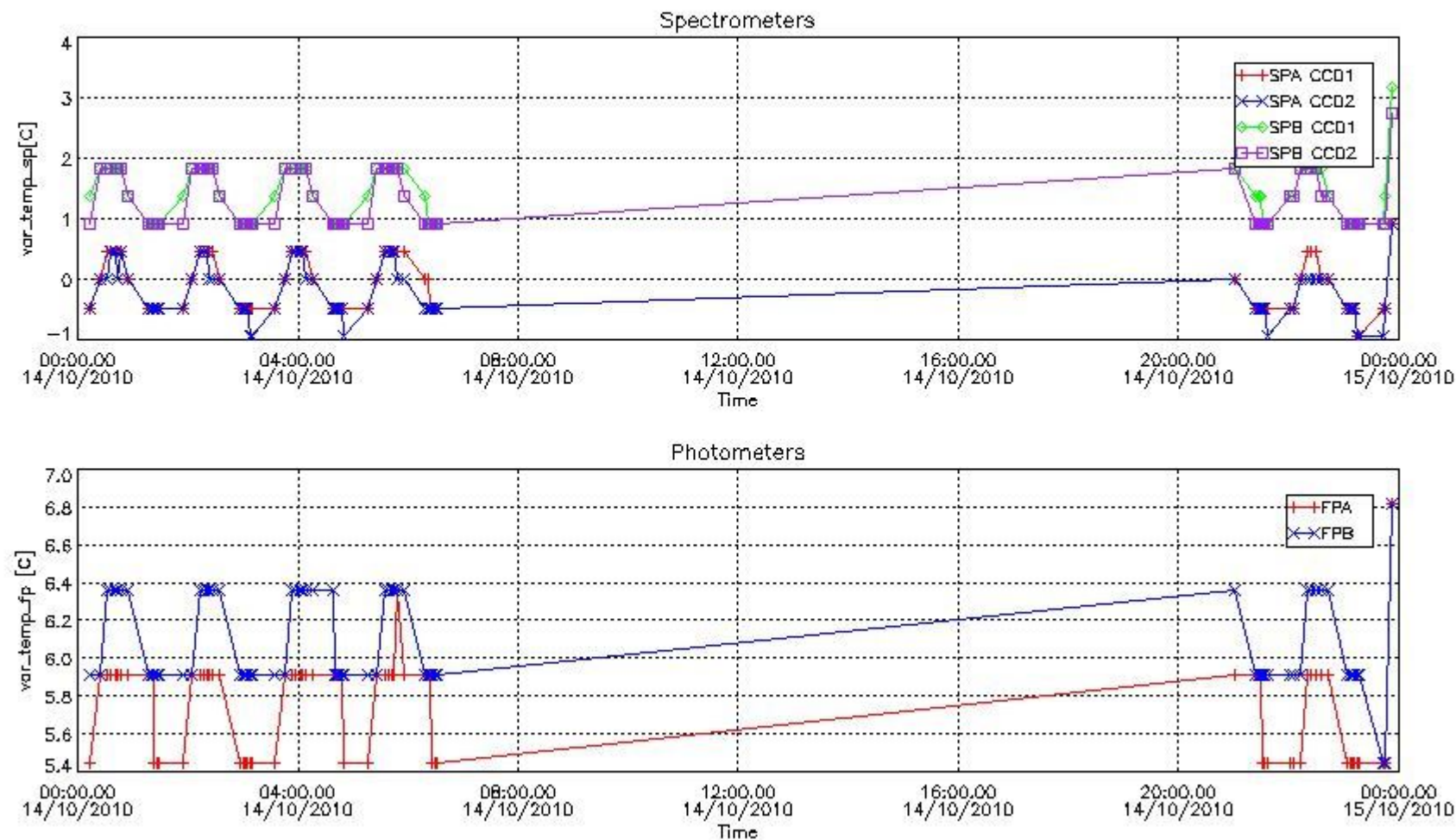
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101014_001351_000000402093_00431_45074_2032.N1	14-OCT-2010 00:13:51	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	45074	No
2	GOM_TRA_1PNPDE20101014_002419_000000582093_00431_45074_2041.N1	14-OCT-2010 00:24:19	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	45074	No
3	GOM_TRA_1PNPDE20101014_003256_000000522093_00431_45074_2042.N1	14-OCT-2010 00:32:56	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45074	No
4	GOM_TRA_1PNPDE20101014_003604_000000452093_00431_45074_2043.N1	14-OCT-2010 00:36:04	Dark	45.000	70	Zet Pup	2.2460	39000.	90	45074	No
5	GOM_TRA_1PNPDE20101014_004113_000000452093_00432_45075_2044.N1	14-OCT-2010 00:41:13	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	45075	No
6	GOM_TRA_1PNPDE20101014_004235_000000552093_00432_45075_2045.N1	14-OCT-2010 00:42:35	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	45075	No
7	GOM_TRA_1PNPDE20101014_004703_000000622093_00432_45075_2046.N1	14-OCT-2010 00:47:03	Dark	61.500	108	Alp Col	2.6520	15200.	123	45075	No
8	GOM_TRA_1PNPDE20101014_005430_000000472093_00432_45075_2047.N1	14-OCT-2010 00:54:30	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45075	No
9	GOM_TRA_1PNPDE20101014_011647_000000492093_00432_45075_2048.N1	14-OCT-2010 01:16:47	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45075	No
10	GOM_TRA_1PNPDE20101014_012005_000000432093_00432_45075_2049.N1	14-OCT-2010 01:20:05	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45075	No
11	GOM_TRA_1PNPDE20101014_012155_000000492093_00432_45075_2050.N1	14-OCT-2010 01:21:55	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	45075	No
12	GOM_TRA_1PNPDE20101014_012344_000000442093_00432_45075_2051.N1	14-OCT-2010 01:23:44	Bright	44.000	73	57Gam1And	2.2600	13100.	88	45075	No

13	GOM_TRA_1PNPDE20101014_012655_000000382093_00432_45075_2052.N1	14-OCT-2010 01:26:55	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	45075	No
14	GOM_TRA_1PNPDE20101014_012906_000000462093_00432_45075_2053.N1	14-OCT-2010 01:29:06	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45075	No
15	GOM_TRA_1PNPDE20101014_015427_000000592093_00432_45075_2054.N1	14-OCT-2010 01:54:27	Bright	58.500	166	17Eps Leo	2.9800	6000.0	117	45075	No
16	GOM_TRA_1PNPDE20101014_020455_000000522093_00432_45075_2063.N1	14-OCT-2010 02:04:55	Dark	52.000	48	30Alp Hya	1.9770	4100.0	104	45075	No
17	GOM_TRA_1PNPDE20101014_021333_000000522093_00432_45075_2064.N1	14-OCT-2010 02:13:33	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45075	No
18	GOM_TRA_1PNPDE20101014_021641_000000442093_00432_45075_2065.N1	14-OCT-2010 02:16:41	Dark	44.000	70	Zet Pup	2.2460	39000.	88	45075	No
19	GOM_TRA_1PNPDE20101014_022150_000000452093_00433_45076_2066.N1	14-OCT-2010 02:21:50	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	45076	No
20	GOM_TRA_1PNPDE20101014_022311_000000492093_00433_45076_2067.N1	14-OCT-2010 02:23:11	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45076	No
21	GOM_TRA_1PNPDE20101014_022740_000000642093_00433_45076_2068.N1	14-OCT-2010 02:27:40	Dark	64.000	108	Alp Col	2.6520	15200.	128	45076	No
22	GOM_TRA_1PNPDE20101014_023507_000000482093_00433_45076_2069.N1	14-OCT-2010 02:35:07	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45076	No
23	GOM_TRA_1PNPDE20101014_025722_000000502093_00433_45076_2070.N1	14-OCT-2010 02:57:22	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45076	No
24	GOM_TRA_1PNPDE20101014_030040_000000442093_00433_45076_2071.N1	14-OCT-2010 03:00:40	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45076	No
25	GOM_TRA_1PNPDE20101014_030230_000000492093_00433_45076_2072.N1	14-OCT-2010 03:02:30	Bright	49.000	173	4Bet Tri	3.0040	8900.0	98	45076	No
26	GOM_TRA_1PNPDE20101014_030419_000000462093_00433_45076_2073.N1	14-OCT-2010 03:04:19	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45076	No
27	GOM_TRA_1PNPDE20101014_030730_000000382093_00433_45076_2074.N1	14-OCT-2010 03:07:30	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45076	No
28	GOM_TRA_1PNPDE20101014_030941_000000442093_00433_45076_2075.N1	14-OCT-2010 03:09:41	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	45076	No
29	GOM_TRA_1PNPDE20101014_033504_000000422093_00433_45076_2082.N1	14-OCT-2010 03:35:04	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	45076	No
30	GOM_TRA_1PNPDE20101014_034532_000000532093_00433_45076_2083.N1	14-OCT-2010 03:45:32	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45076	No
31	GOM_TRA_1PNPDE20101014_035410_000000542093_00433_45076_2084.N1	14-OCT-2010 03:54:10	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	45076	No
32	GOM_TRA_1PNPDE20101014_035718_000000442093_00433_45076_2085.N1	14-OCT-2010 03:57:18	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45076	No
33	GOM_TRA_1PNPDE20101014_040227_000000442093_00434_45077_2086.N1	14-OCT-2010 04:02:27	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45077	No
34	GOM_TRA_1PNPDE20101014_040348_000000462093_00434_45077_2087.N1	14-OCT-2010 04:03:48	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45077	No
35	GOM_TRA_1PNPDE20101014_040817_000000642093_00434_45077_2088.N1	14-OCT-2010 04:08:17	Dark	64.000	108	Alp Col	2.6520	15200.	128	45077	No
36	GOM_TRA_1PNPDE20101014_041543_000000482093_00434_45077_2089.N1	14-OCT-2010 04:15:43	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45077	No
37	GOM_TRA_1PNPDE20101014_043758_000000492093_00434_45077_2090.N1	14-OCT-2010 04:37:58	Bright	49.000	105	6Bet Ari	2.6450	8900.0	98	45077	No
38	GOM_TRA_1PNPDE20101014_044116_000000422093_00434_45077_2091.N1	14-OCT-2010 04:41:16	Bright	42.000	53	43Bet And	2.0480	3300.0	84	45077	No
39	GOM_TRA_1PNPDE20101014_044305_000000492093_00434_45077_2092.N1	14-OCT-2010 04:43:05	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	45077	No
40	GOM_TRA_1PNPDE20101014_044455_000000492093_00434_45077_2093.N1	14-OCT-2010 04:44:55	Bright	49.000	73	57Gam1And	2.2600	13100.	98	45077	No
41	GOM_TRA_1PNPDE20101014_044806_000000402093_00434_45077_2094.N1	14-OCT-2010 04:48:06	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	45077	No
42	GOM_TRA_1PNPDE20101014_045016_000000482093_00434_45077_2095.N1	14-OCT-2010 04:50:16	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	45077	No
43	GOM_TRA_1PNPDE20101014_051540_000000422093_00434_45077_2103.N1	14-OCT-2010 05:15:40	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	45077	No
44	GOM_TRA_1PNPDE20101014_052609_000000552093_00434_45077_2104.N1	14-OCT-2010 05:26:09	Dark	55.000	48	30Alp Hya	1.9770	4100.0	110	45077	No
45	GOM_TRA_1PNPDE20101014_053447_000000562093_00434_45077_2105.N1	14-OCT-2010 05:34:47	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45077	No
46	GOM_TRA_1PNPDE20101014_053755_000000492093_00434_45077_2106.N1	14-OCT-2010 05:37:55	Dark	49.000	70	Zet Pup	2.2460	39000.	98	45077	No
47	GOM_TRA_1PNPDE20101014_054304_000000442093_00435_45078_2107.N1	14-OCT-2010 05:43:04	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45078	No
48	GOM_TRA_1PNPDE20101014_054425_000000452093_00435_45078_2108.N1	14-OCT-2010 05:44:25	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45078	No
49	GOM_TRA_1PNPDE20101014_054855_000000642093_00435_45078_2109.N1	14-OCT-2010 05:48:55	Dark	64.000	108	Alp Col	2.6520	15200.	128	45078	No
50	GOM_TRA_1PNPDE20101014_055620_000000452093_00435_45078_2110.N1	14-OCT-2010 05:56:20	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45078	No
51	GOM_TRA_1PNPDE20101014_061833_000000492093_00435_45078_2111.N1	14-OCT-2010 06:18:33	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45078	No
52	GOM_TRA_1PNPDE20101014_062152_000000432093_00435_45078_2112.N1	14-OCT-2010 06:21:52	Bright	43.000	53	43Bet And	2.0480	3300.0	86	45078	No
53	GOM_TRA_1PNPDE20101014_062341_000000472093_00435_45078_2113.N1	14-OCT-2010 06:23:41	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45078	No
54	GOM_TRA_1PNPDE20101014_062530_000000472093_00435_45078_2114.N1	14-OCT-2010 06:25:30	Bright	46.500	73	57Gam1And	2.2600	13100.	93	45078	No
55	GOM_TRA_1PNPDE20101014_062842_000000392093_00435_45078_2115.N1	14-OCT-2010 06:28:42	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45078	No
56	GOM_TRA_1PNPDE20101014_063051_000000492093_00435_45078_2116.N1	14-OCT-2010 06:30:51	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45078	No
57	GOM_TRA_1PNPDE20101014_210148_000000472093_00444_45087_2181.N1	14-OCT-2010 21:01:48	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	45087	No
58	GOM_TRA_1PNPDE20101014_212351_000000482093_00444_45087_2182.N1	14-OCT-2010 21:23:51	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	45087	No
59	GOM_TRA_1PNPDE20101014_212712_000000392093_00444_45087_2183.N1	14-OCT-2010 21:27:12	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45087	No
60	GOM_TRA_1PNPDE20101014_212857_000000472093_00444_45087_2184.N1	14-OCT-2010 21:28:57	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45087	No
61	GOM_TRA_1PNPDE20101014_213047_000000492093_00444_45087_2185.N1	14-OCT-2010 21:30:47	Bright	48.500	73	57Gam1And	2.2600	13100.	97	45087	No
62	GOM_TRA_1PNPDE20101014_213403_000000392093_00444_45087_2186.N1	14-OCT-2010 21:34:03	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45087	No
63	GOM_TRA_1PNPDE20101014_213608_000000442093_00444_45087_2187.N1	14-OCT-2010 21:36:08	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	45087	No
64	GOM_TRA_1PNPDE20101014_220142_000000432093_00444_45087_2188.N1	14-OCT-2010 22:01:42	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	45087	No
65	GOM_TRA_1PNPDE20101014_220456_000000392093_00444_45087_2189.N1	14-OCT-2010 22:04:56	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	45087	No
66	GOM_TRA_1PNPDE20101014_221214_000000502093_00444_45087_2200.N1	14-OCT-2010 22:12:14	Dark	50.000	48	30Alp Hya	1.9770	4100.0	100	45087	No
67	GOM_TRA_1PNPDE20101014_222059_000000532093_00444_45087_2201.N1	14-OCT-2010 22:20:59	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	45087	No
68	GOM_TRA_1PNPDE20101014_222456_000000482093_00444_45087_2202.N1	14-OCT-2010 22:24:56	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45087	No
69	GOM_TRA_1PNPDE20101014_222911_000000442093_00445_45088_2203.N1	14-OCT-2010 22:29:11	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45088	No
70	GOM_TRA_1PNPDE20101014_223032_000000462093_00445_45088_2204.N1	14-OCT-2010 22:30:32	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45088	No
71	GOM_TRA_1PNPDE20101014_223508_000000252093_00445_45088_2205.N1	14-OCT-2010 22:35:08	Dark	25.000	108	Alp Col	2.6520	15200.	50	45088	No

72	GOM_TRA_1PNPDE20101014_224224_000000452093_00445_45088_2206.N1	14-OCT-2010 22:42:24	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45088	No
73	GOM_TRA_1PNPDE20101014_230427_000000492093_00445_45088_2207.N1	14-OCT-2010 23:04:27	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45088	No
74	GOM_TRA_1PNPDE20101014_230747_000000412093_00445_45088_2208.N1	14-OCT-2010 23:07:47	Bright	41.000	53	43Bet And	2.0480	3300.0	82	45088	No
75	GOM_TRA_1PNPDE20101014_230932_000000462093_00445_45088_2209.N1	14-OCT-2010 23:09:32	Bright	45.500	173	4Bet Tri	3.0040	8900.0	91	45088	No
76	GOM_TRA_1PNPDE20101014_231122_000000472093_00445_45088_2210.N1	14-OCT-2010 23:11:22	Bright	47.000	73	57Gam1And	2.2600	13100.	94	45088	No
77	GOM_TRA_1PNPDE20101014_231438_000000382093_00445_45088_2211.N1	14-OCT-2010 23:14:38	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45088	No
78	GOM_TRA_1PNPDE20101014_231642_000000482093_00445_45088_2212.N1	14-OCT-2010 23:16:42	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	45088	No
79	GOM_TRA_1PNPDE20101014_234218_000000422093_00445_45088_2213.N1	14-OCT-2010 23:42:18	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	45088	No
80	GOM_TRA_1PNPDE20101014_234532_000000392093_00445_45088_2214.N1	14-OCT-2010 23:45:32	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	45088	No
81	GOM_TRA_1PNPDE20101014_235251_000000532093_00445_45088_2217.N1	14-OCT-2010 23:52:51	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45088	Yes

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

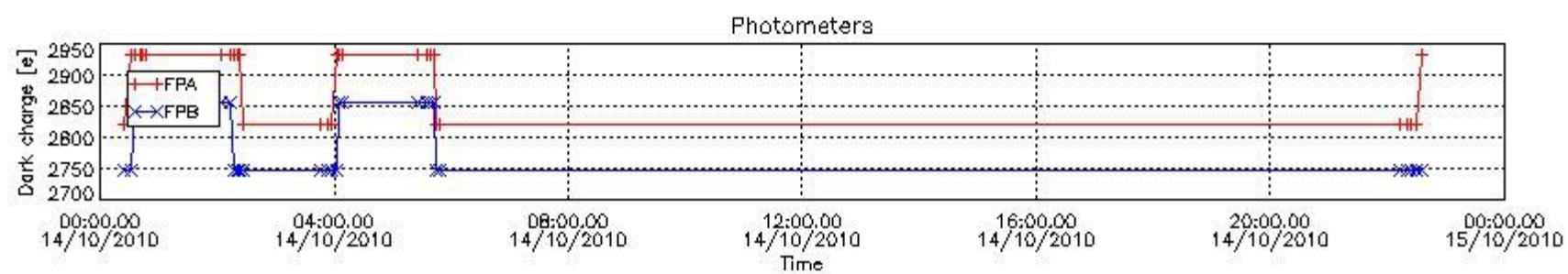
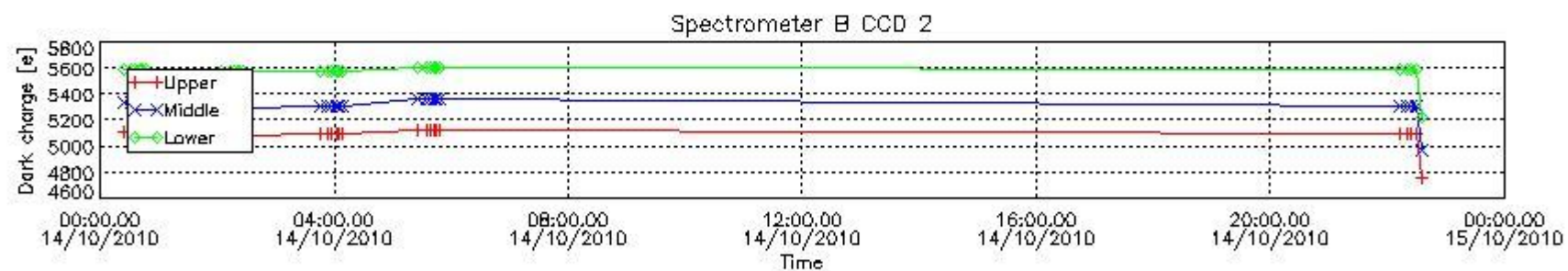
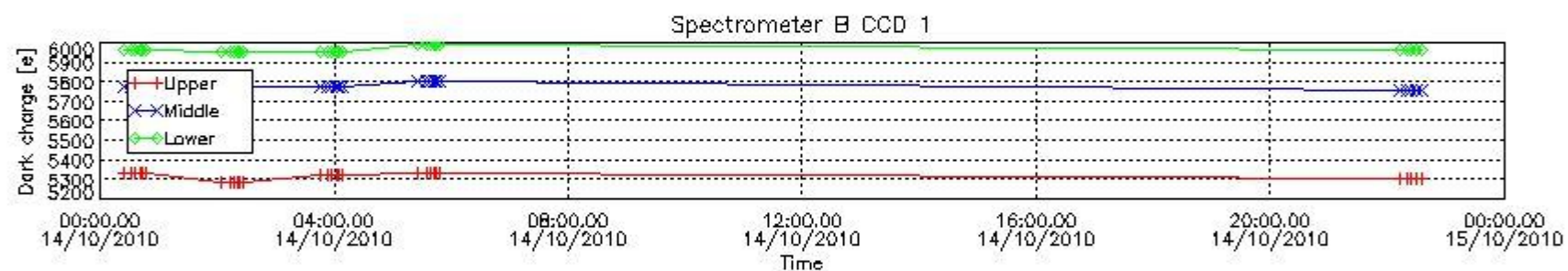
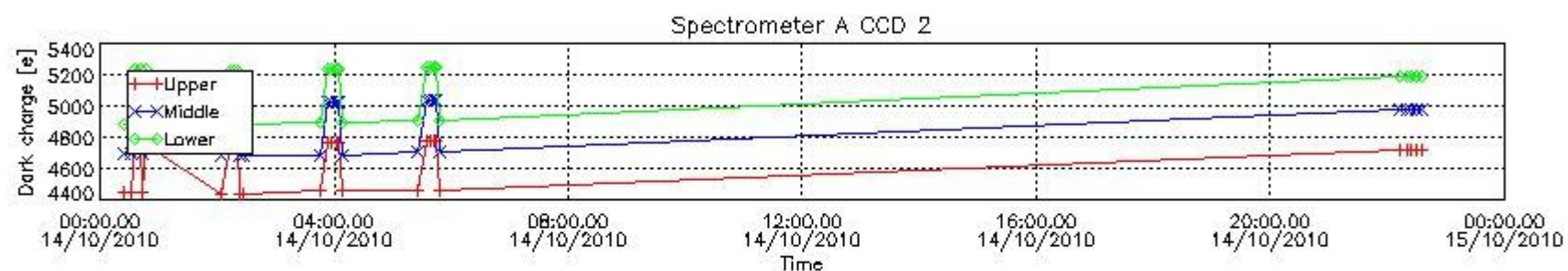
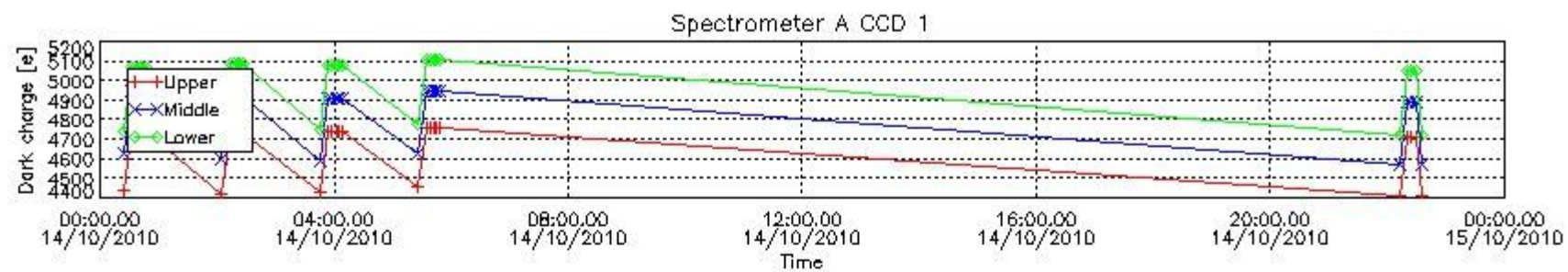
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
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GOM_TRA_1PNPDE20101014_210148_000000472093_00444_45087_2181.N1	DC map used
GOM_TRA_1PNPDE20101014_212351_000000482093_00444_45087_2182.N1	DC map used
GOM_TRA_1PNPDE20101014_212712_000000392093_00444_45087_2183.N1	DC map used
GOM_TRA_1PNPDE20101014_212857_000000472093_00444_45087_2184.N1	DC map used
GOM_TRA_1PNPDE20101014_213047_000000492093_00444_45087_2185.N1	DC map used
GOM_TRA_1PNPDE20101014_213403_000000392093_00444_45087_2186.N1	DC map used
GOM_TRA_1PNPDE20101014_213608_000000442093_00444_45087_2187.N1	DC map used
GOM_TRA_1PNPDE20101014_220142_000000432093_00444_45087_2188.N1	DC map used
GOM_TRA_1PNPDE20101014_220456_000000392093_00444_45087_2189.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



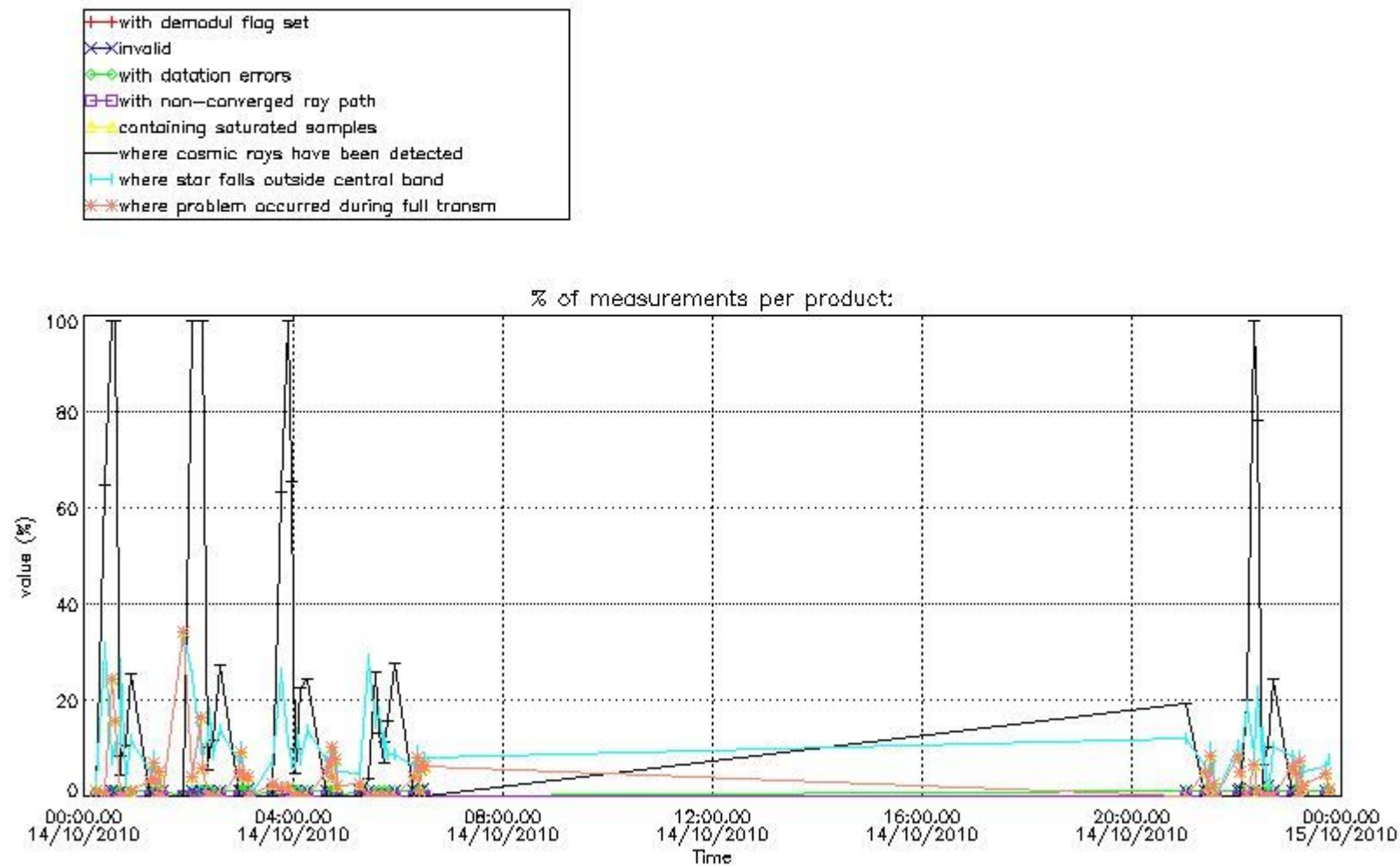
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

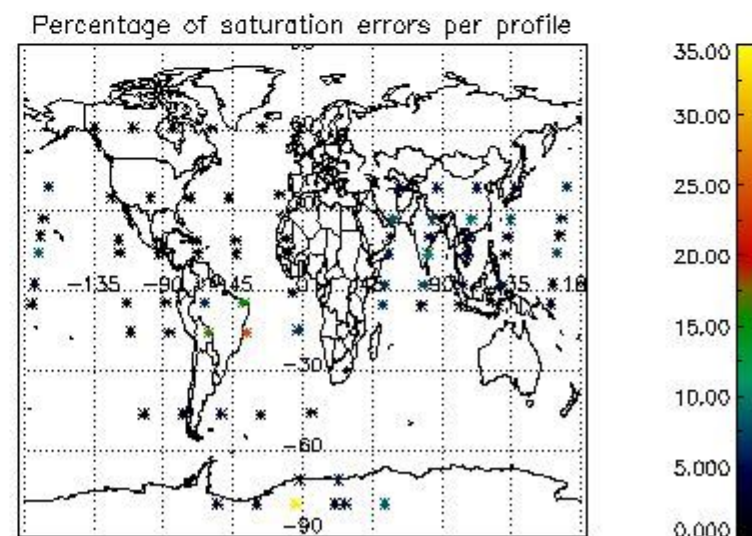
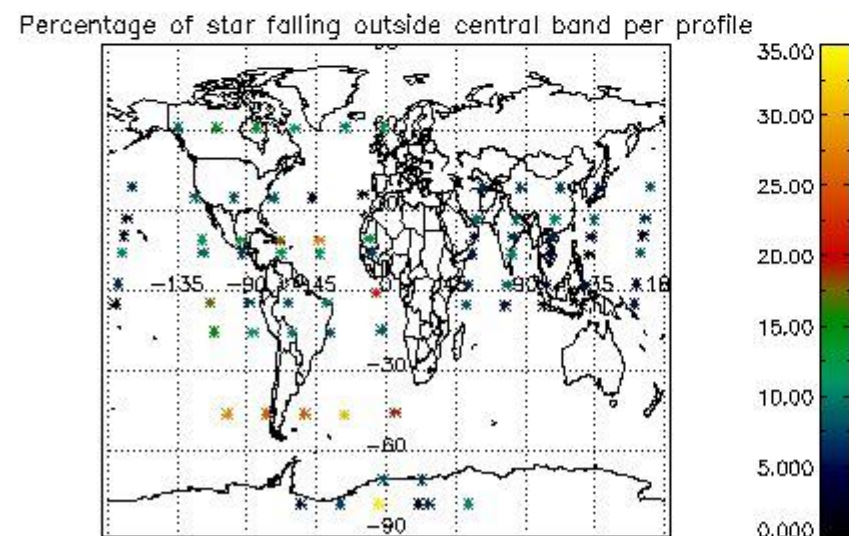
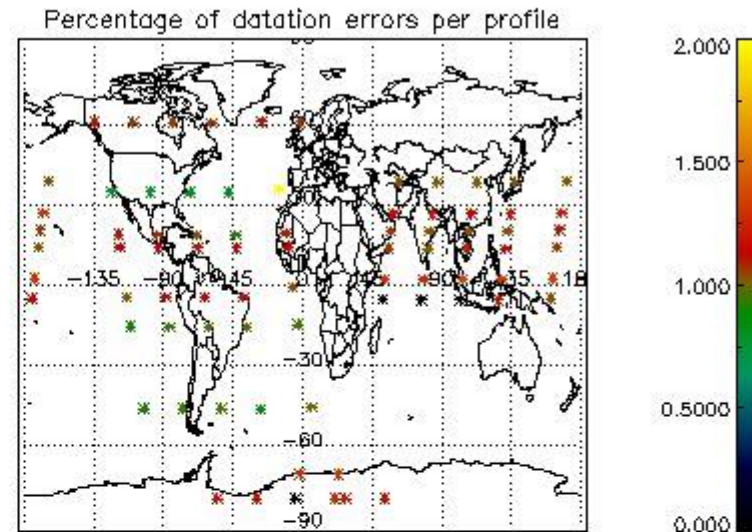
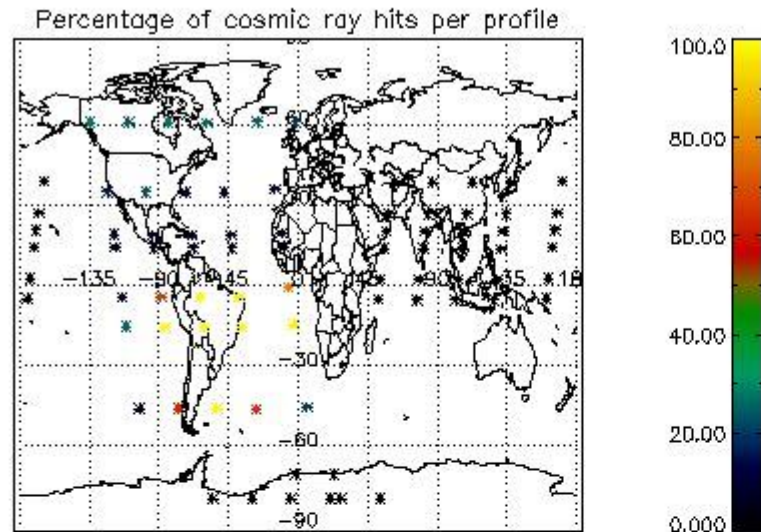
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.2500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



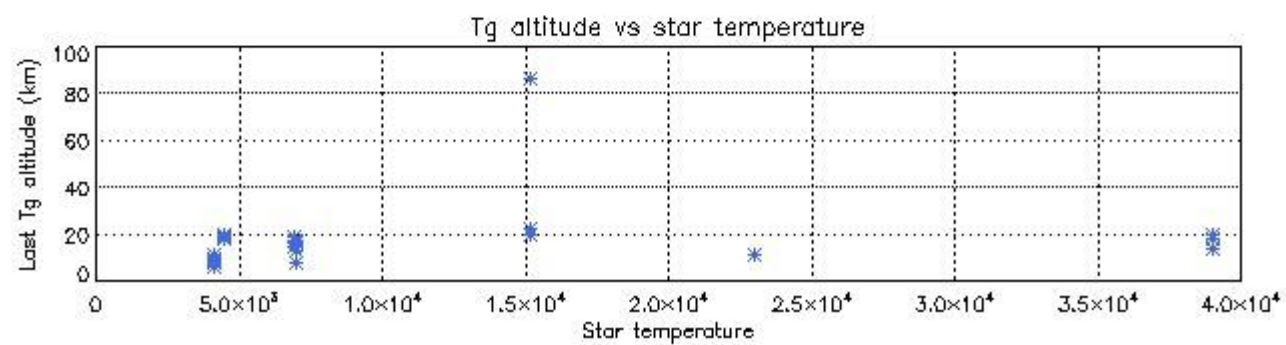
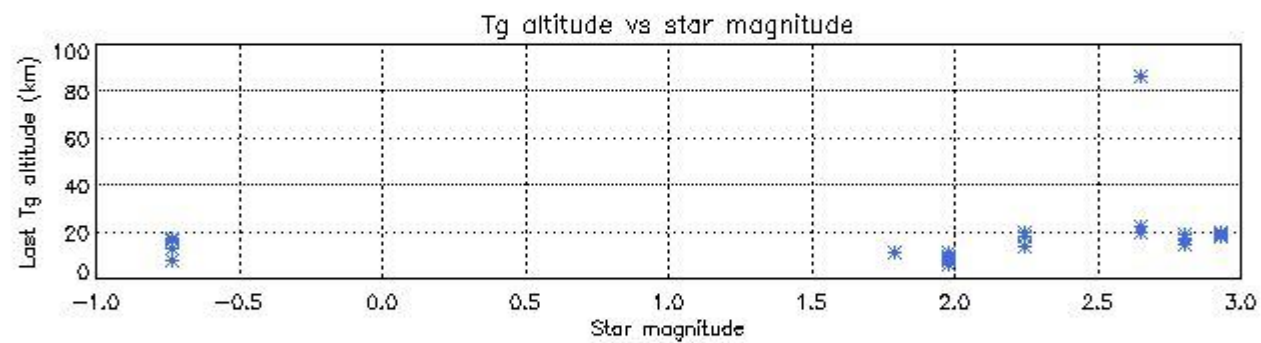
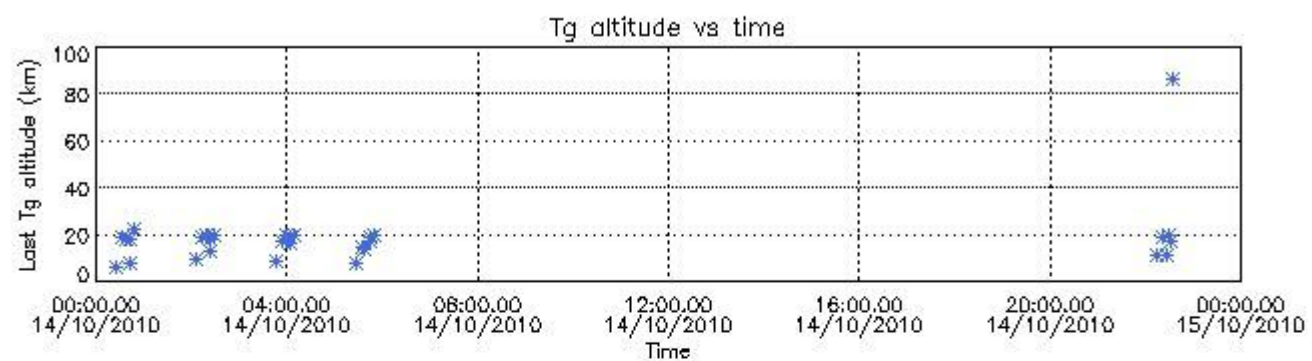
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.185	21.022	NaN
St. deviation:	13.662	3.8315	NaN
Maximum:	86.633	30.704	NaN
Minimum:	5.5844	4.8850	NaN
Number of data:	30.000	44.000	NaN

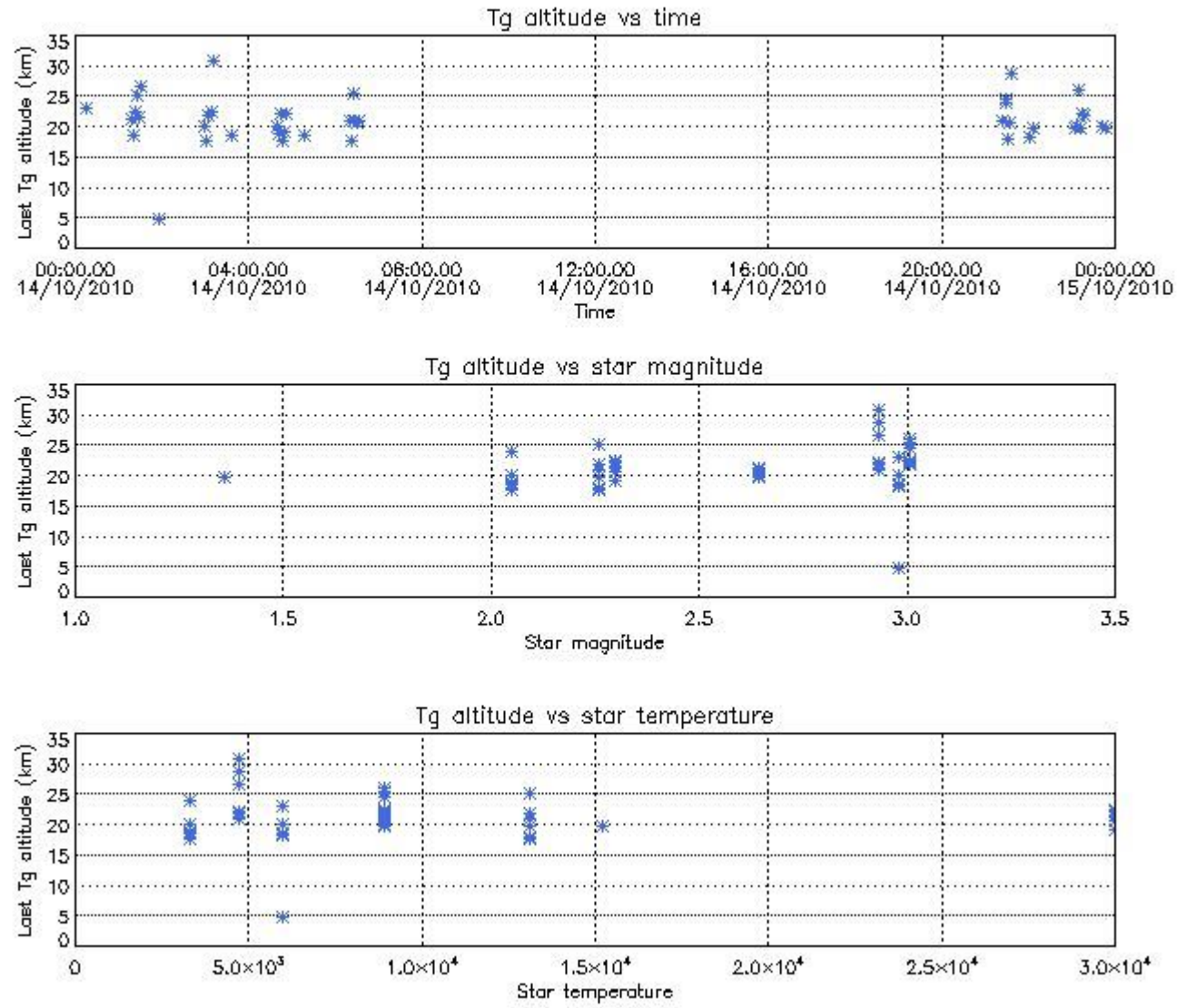
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

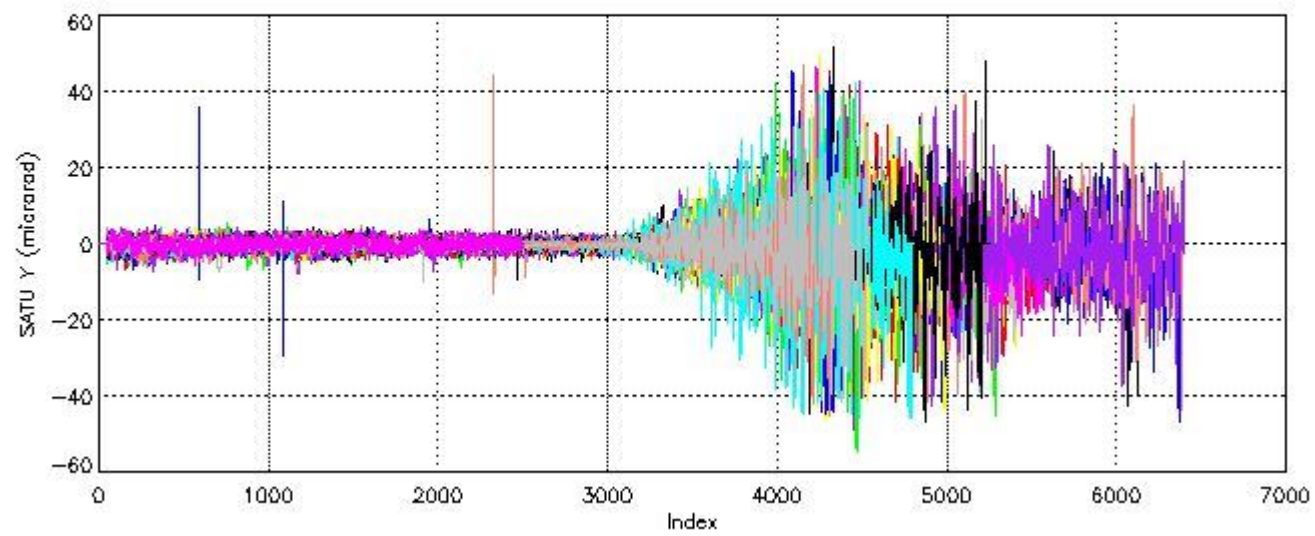
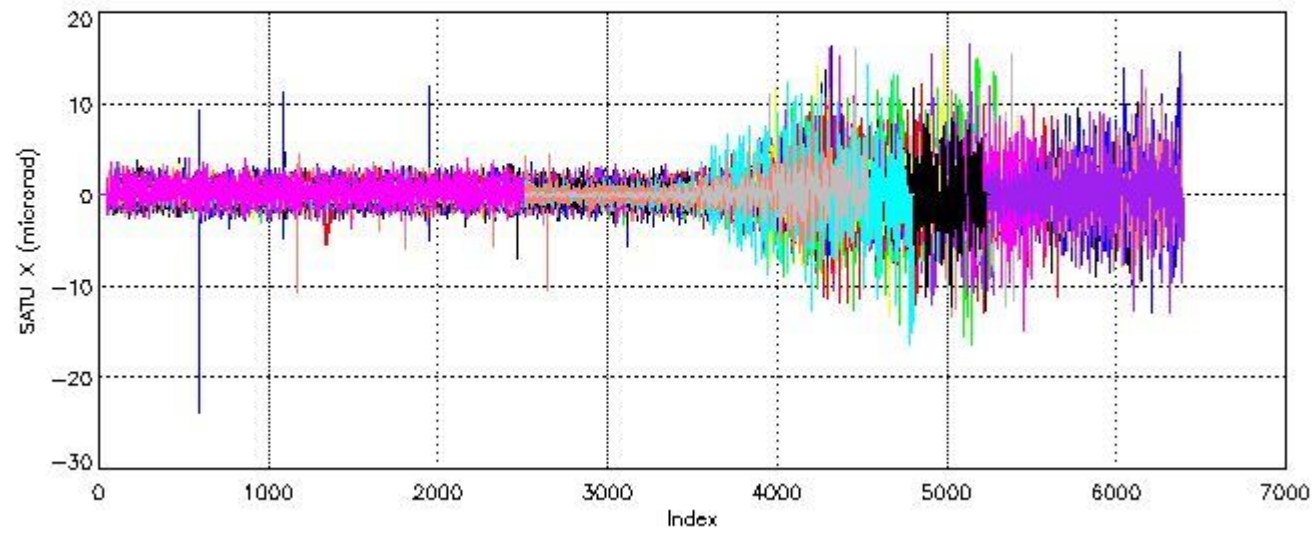


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.20700	-0.47659	0.19522	-0.49394
St. deviation:	0.59371	1.3277	0.80561	1.4258
Maximum:	11.300	35.700	5.5000	8.2000
Minimum:	-23.900	-29.500	-5.9000	-9.9000

Number of data:	32900.	32900.	48300.	48300.
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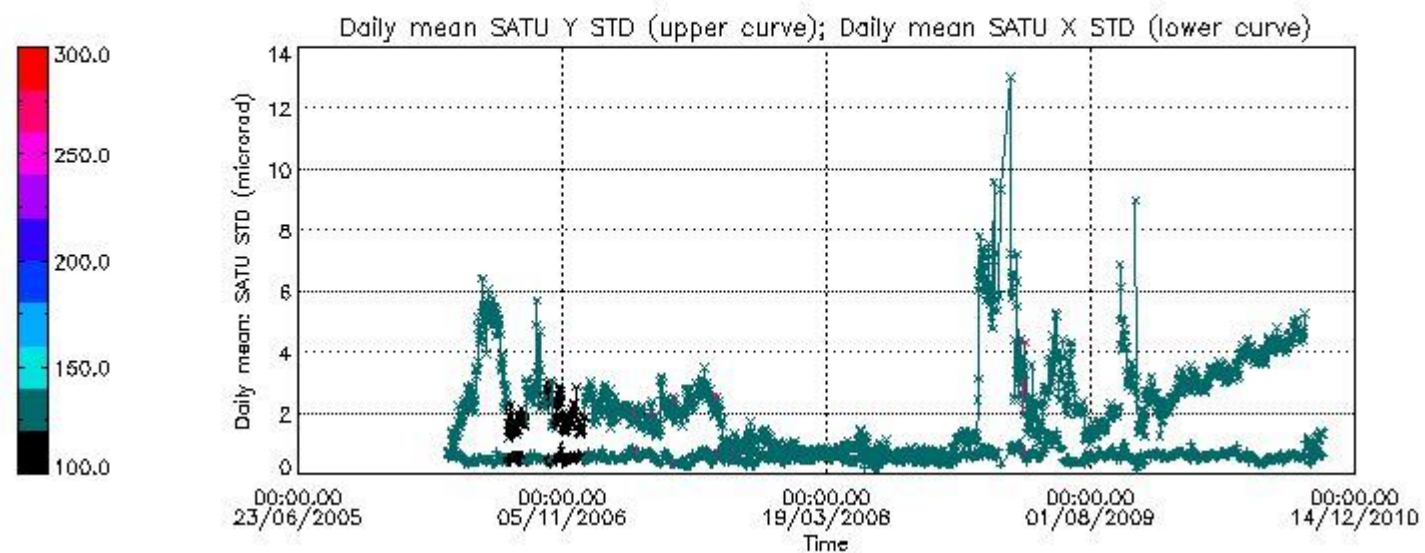
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

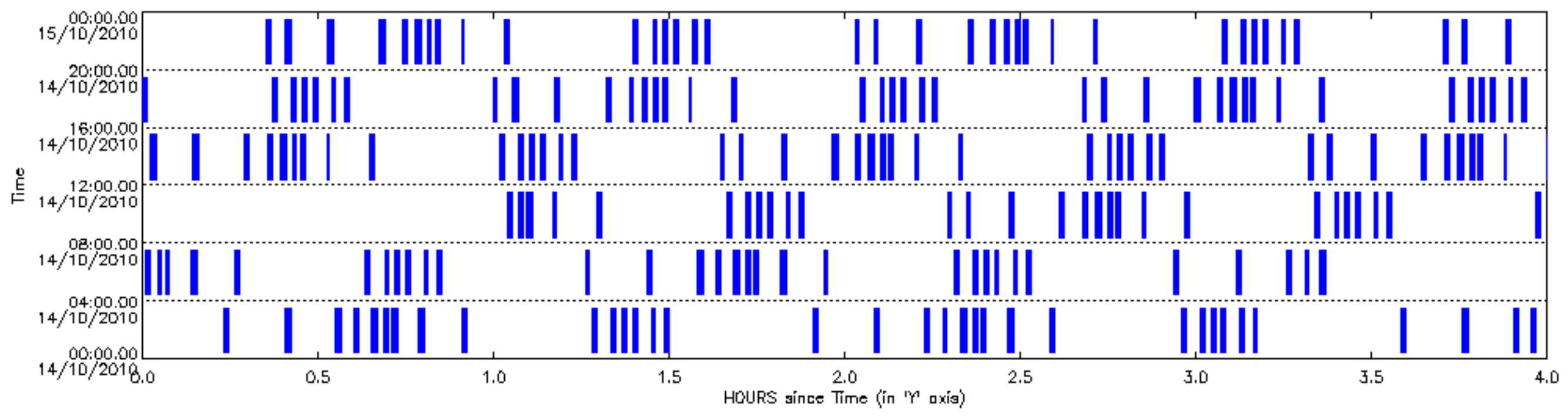
Lower curve: STD of SATU X axis

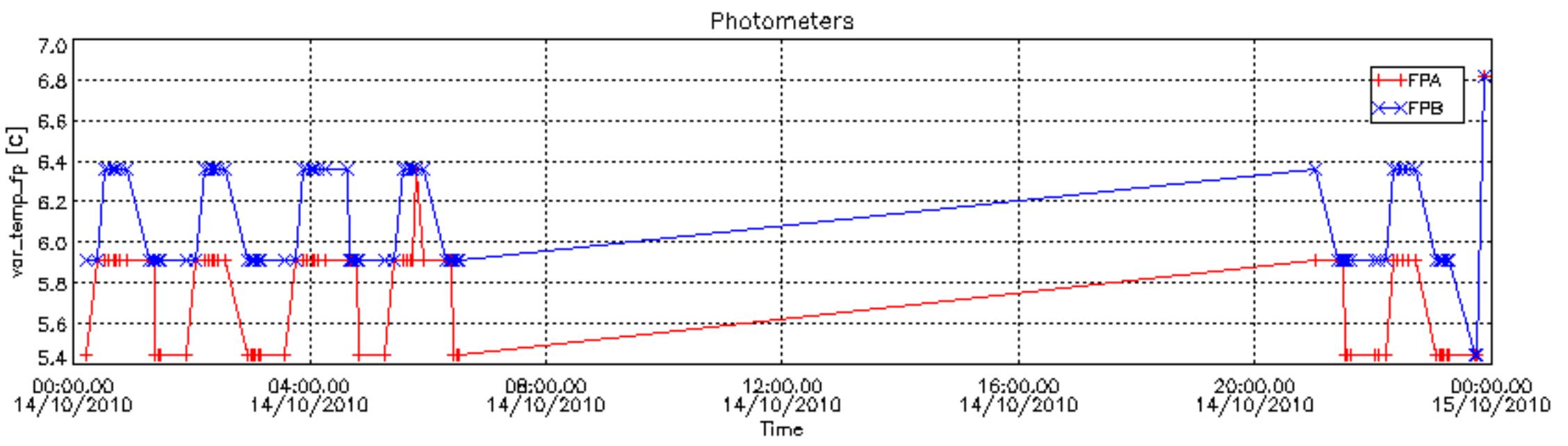
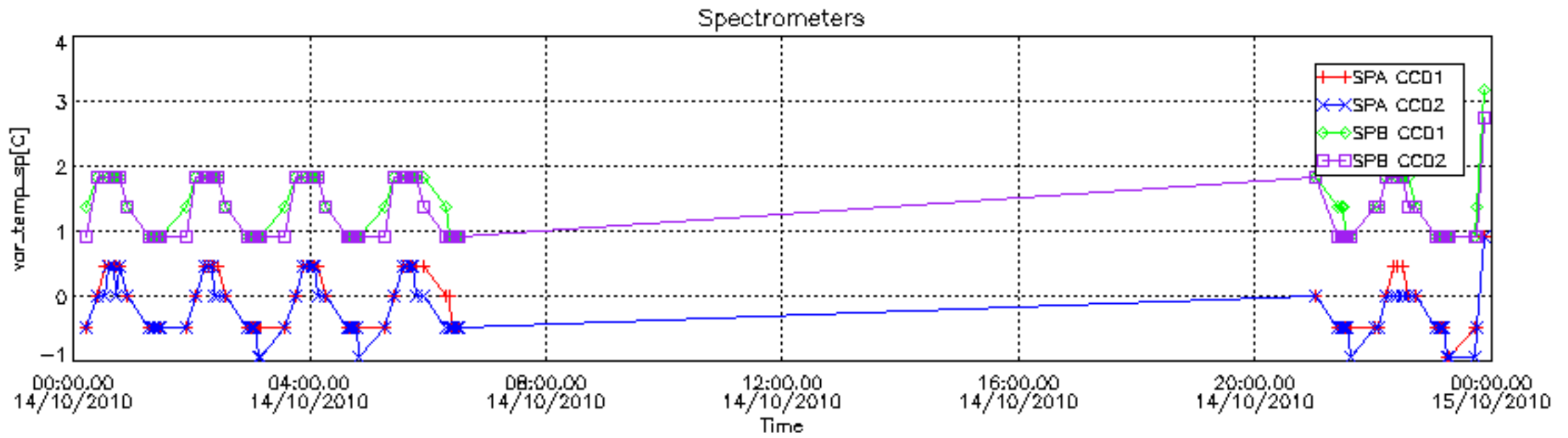


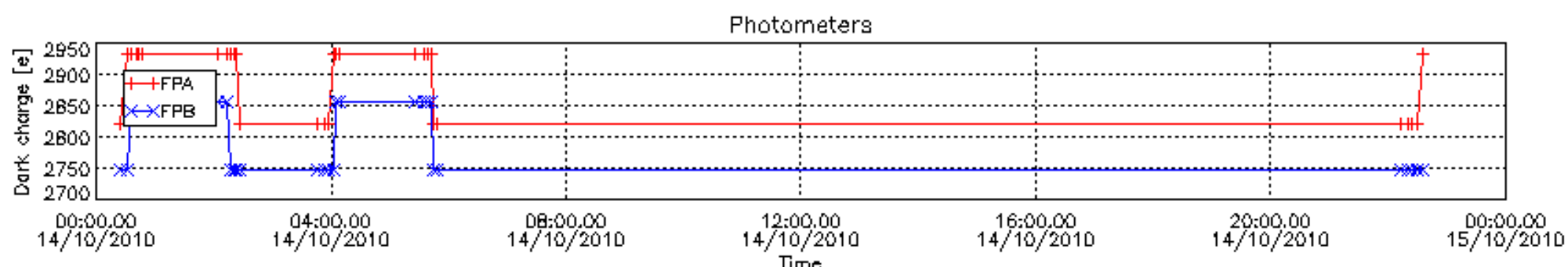
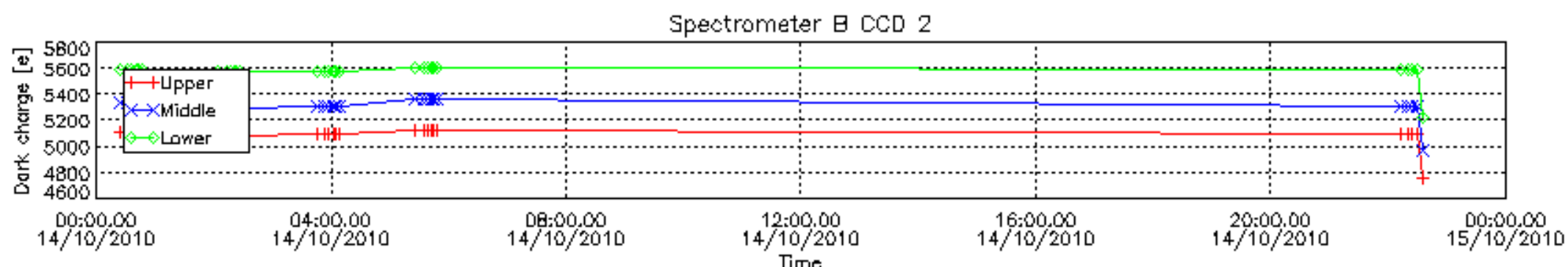
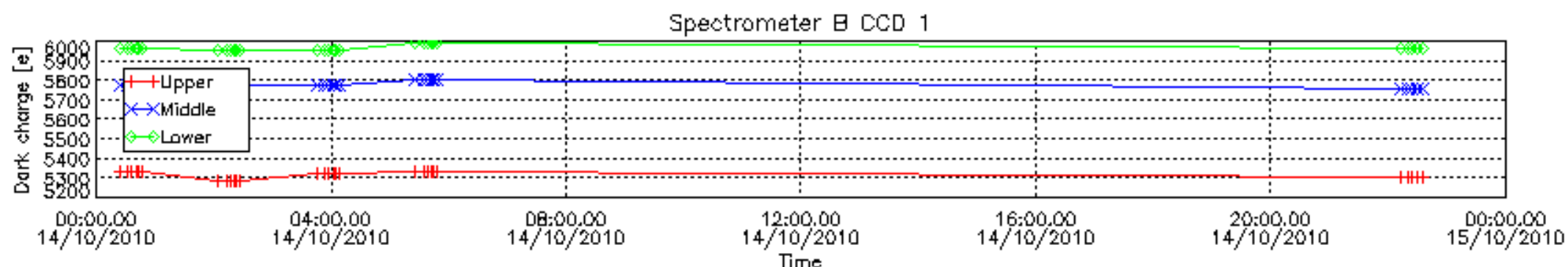
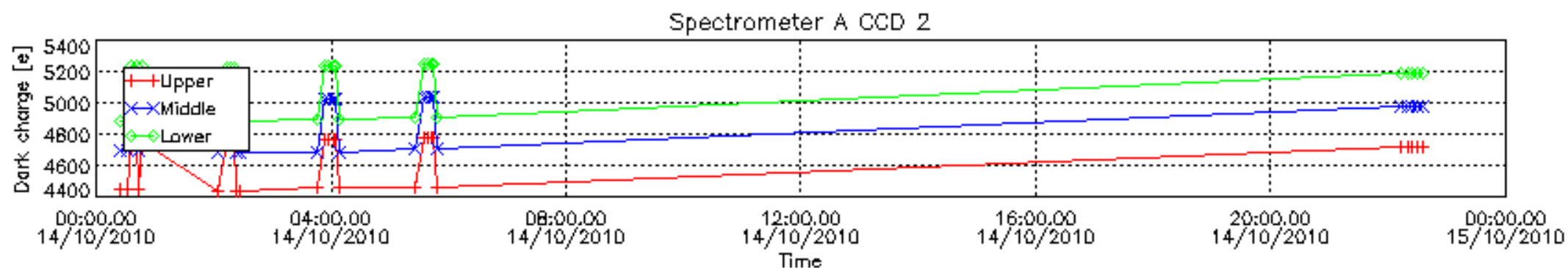
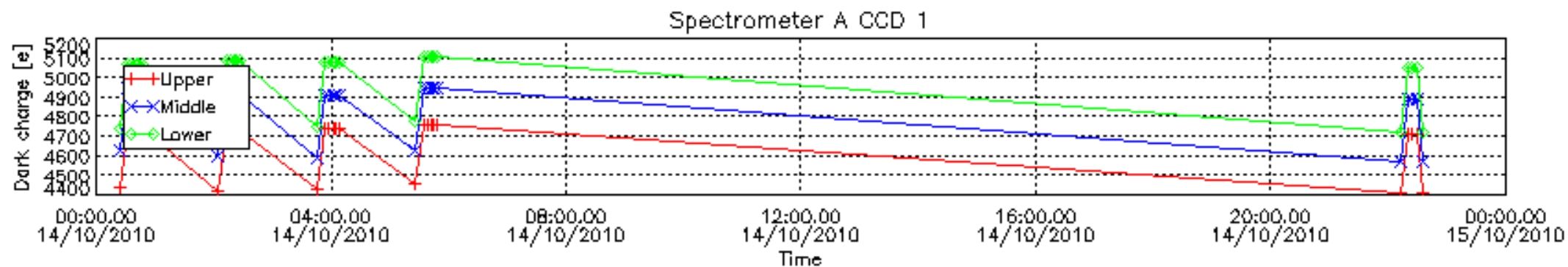
8. Auxiliary Data Files used for the production reported in section 2.4

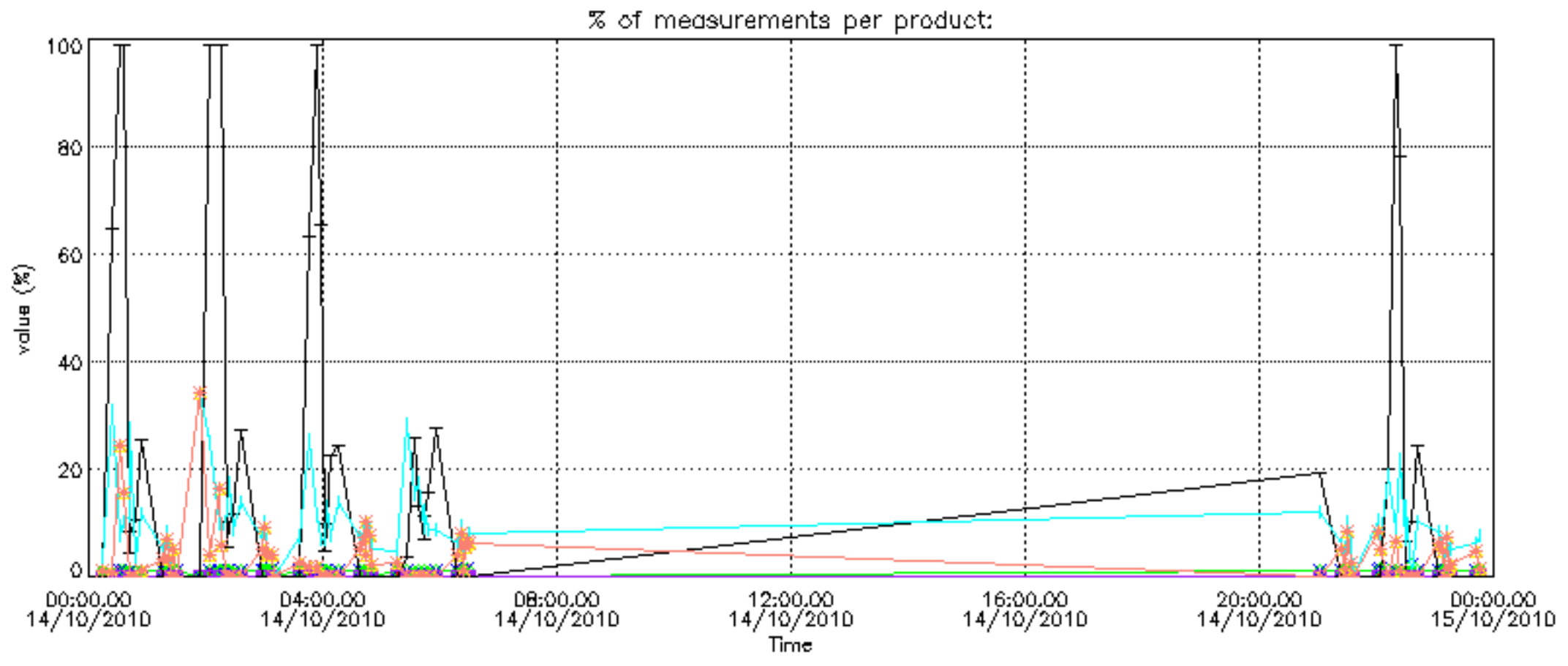
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-OCT-2010 00:13:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	14-OCT-2010 00:13:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	14-OCT-2010 00:13:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-OCT-2010 00:13:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	14-OCT-2010 00:13:51
ECMWF_FILE	AUX_ECF_AXNECM20101013_054113_20101013_210000_20101014_090000	1	14-OCT-2010 00:13:51
ECMWF_FILE	AUX_ECF_AXNECM20101013_171836_20101014_030000_20101014_150000	29	14-OCT-2010 03:35:04
ECMWF_FILE	AUX_ECF_AXNECM20101014_054115_20101014_210000_20101015_090000	57	14-OCT-2010 21:01:48
OPTIONAL_ECMWF_FILE	MISSING	1	14-OCT-2010 00:13:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_224045_000057382093_00430_45073_1741.N1	1	14-OCT-2010 00:13:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_002142_000057382093_00431_45074_1742.N1	2	14-OCT-2010 00:24:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_015720_000044632093_00432_45075_1743.N1	16	14-OCT-2010 02:04:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_031702_000057382093_00433_45076_1744.N1	29	14-OCT-2010 03:35:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_045759_000057382093_00434_45077_1745.N1	43	14-OCT-2010 05:15:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_205421_000041442093_00444_45087_1746.N1	57	14-OCT-2010 21:01:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_220844_000057382093_00444_45087_1747.N1	66	14-OCT-2010 22:12:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_234941_000057382093_00445_45088_1748.N1	81	14-OCT-2010 23:52:51

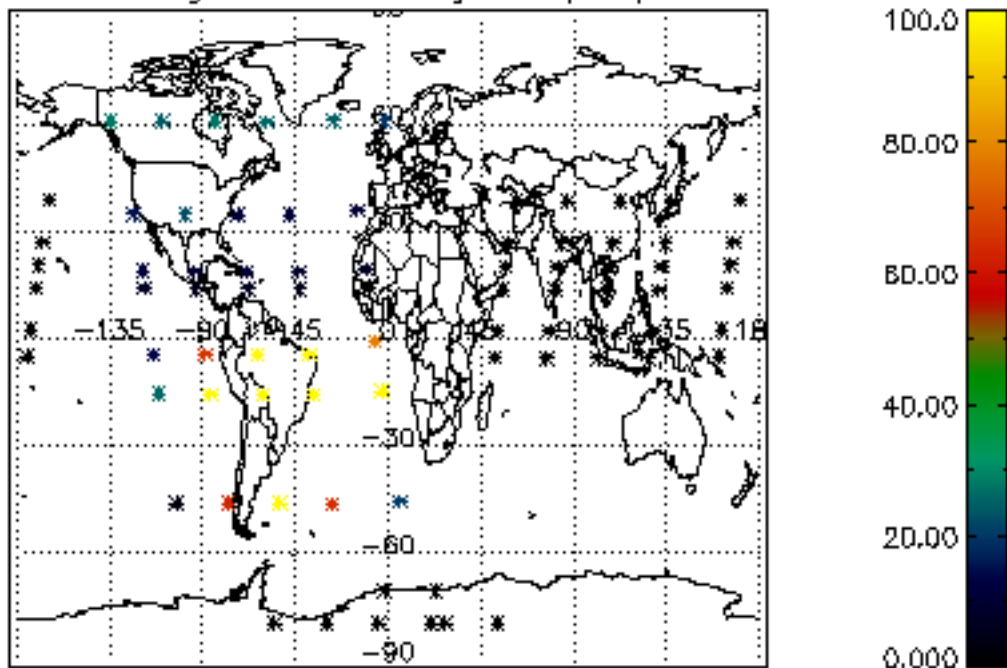




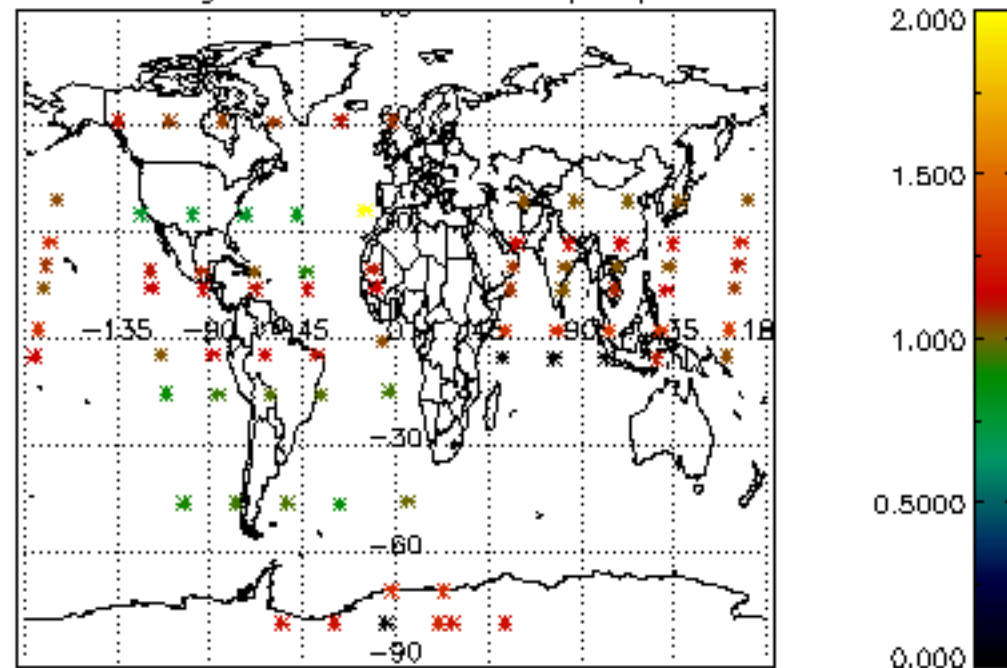




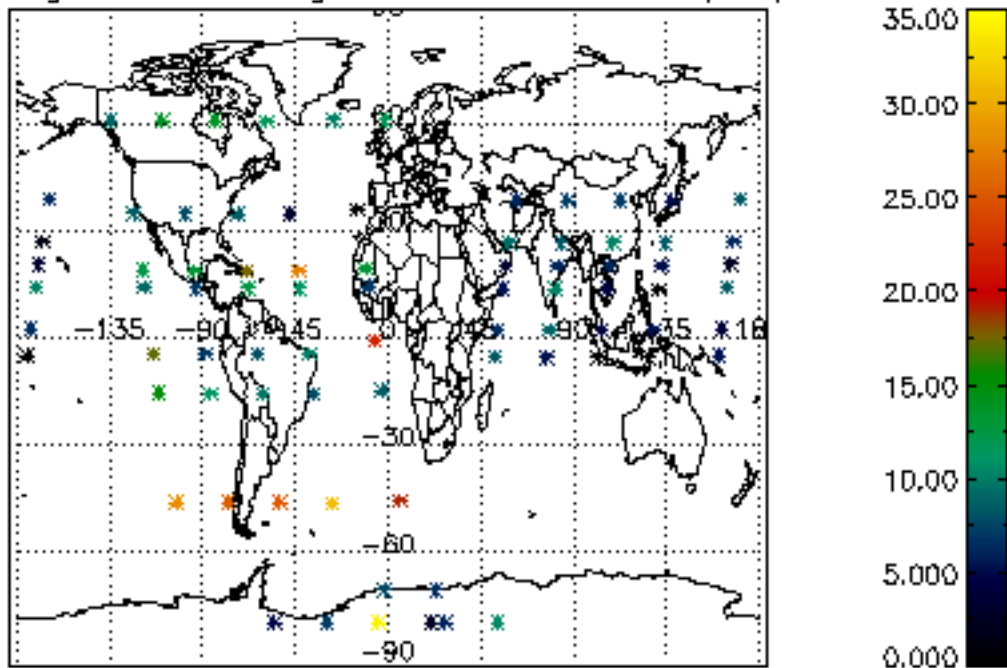
Percentage of cosmic ray hits per profile



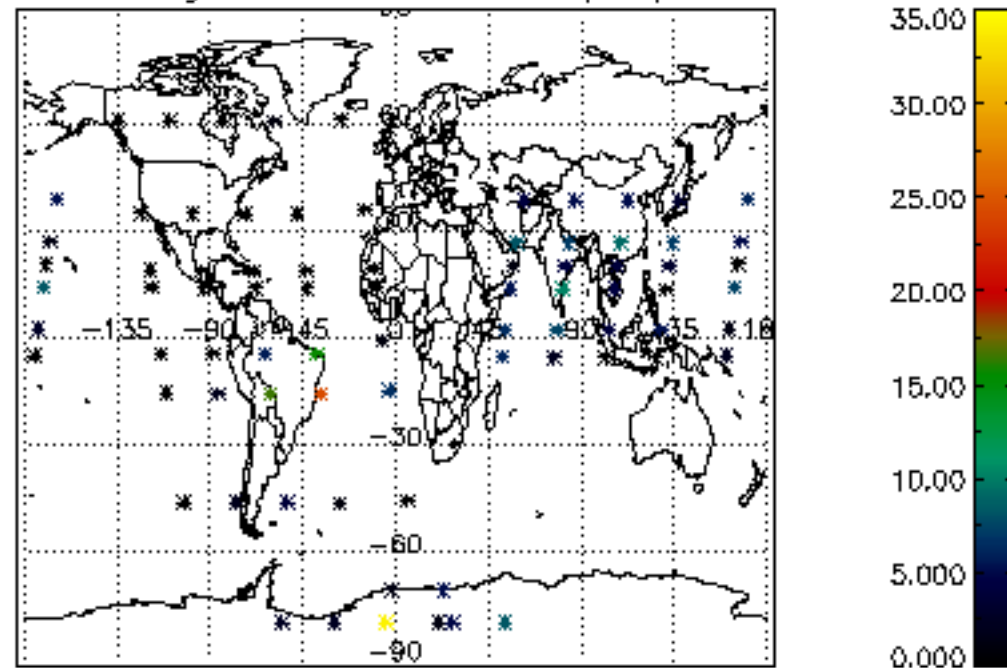
Percentage of datation errors per profile



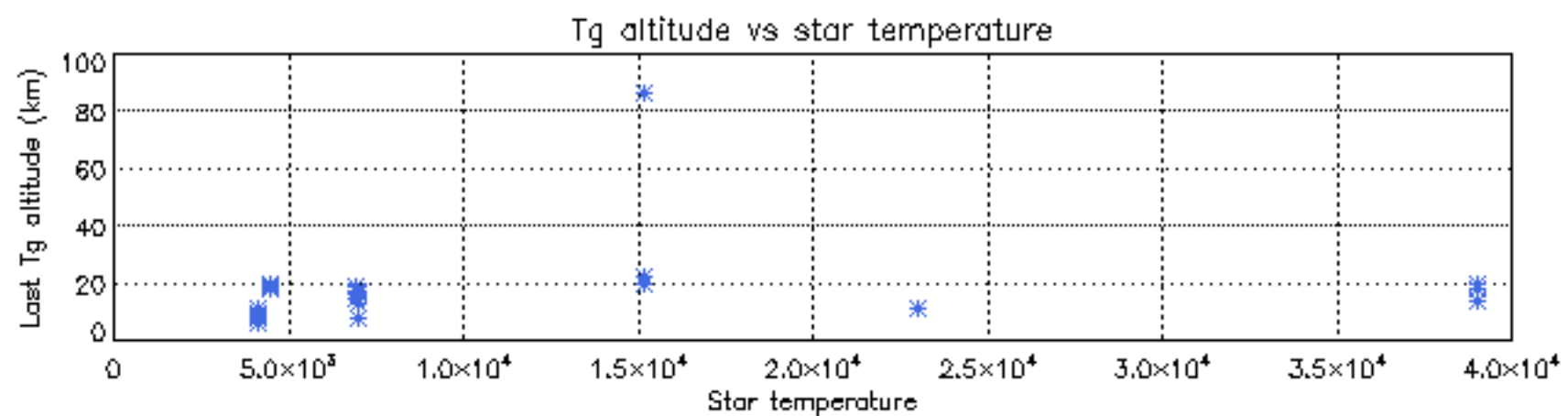
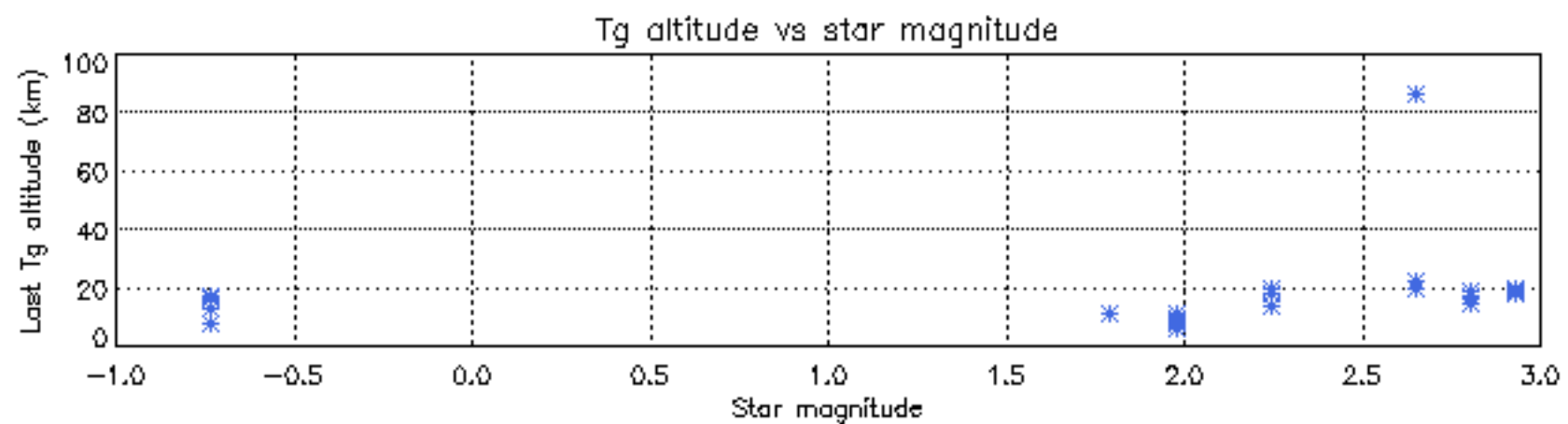
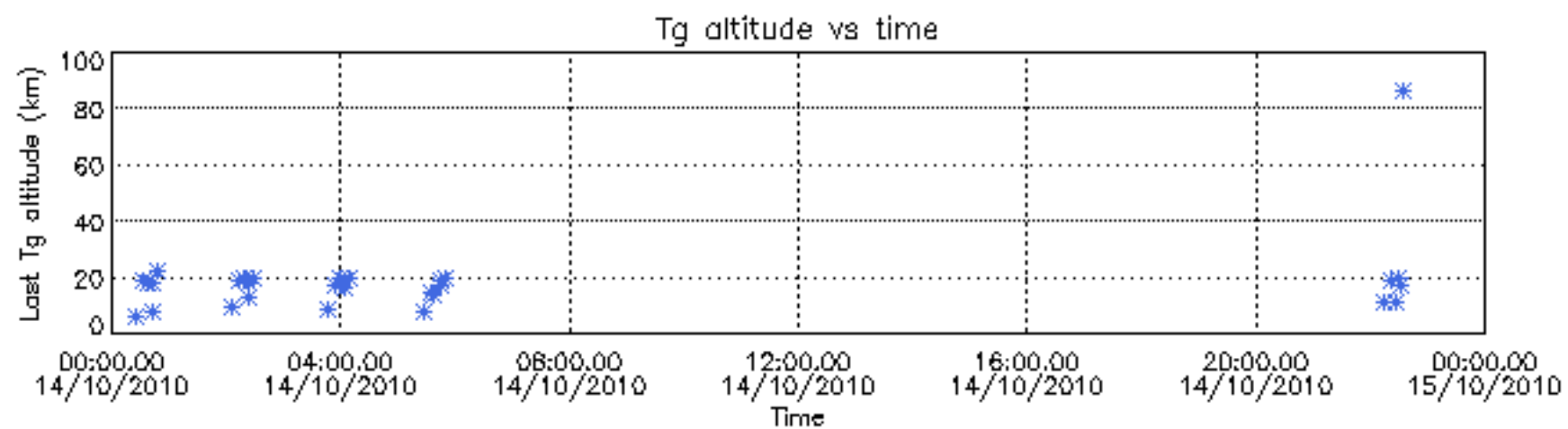
Percentage of star falling outside central band per profile



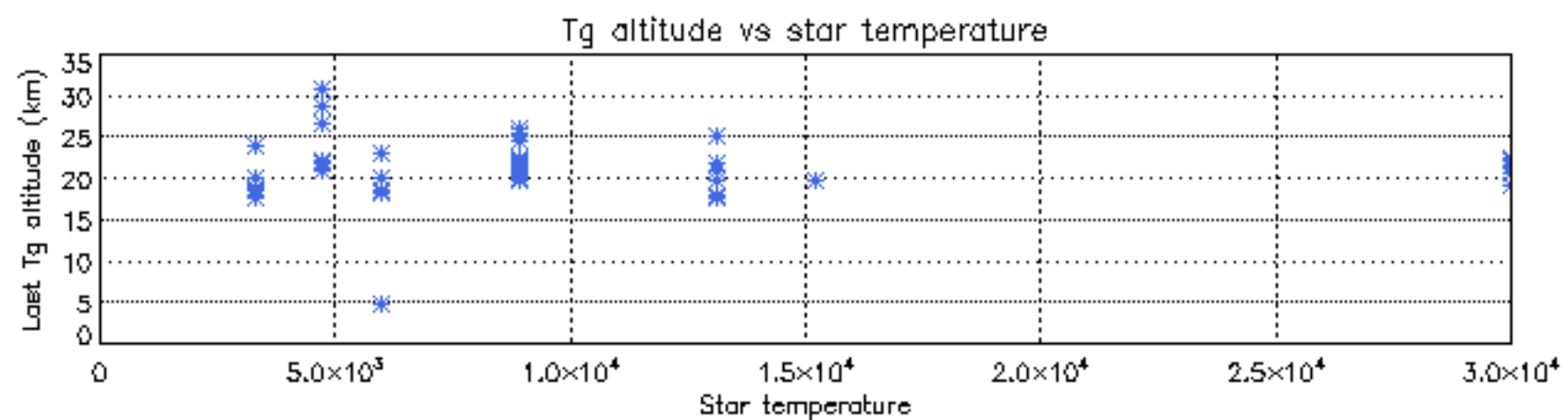
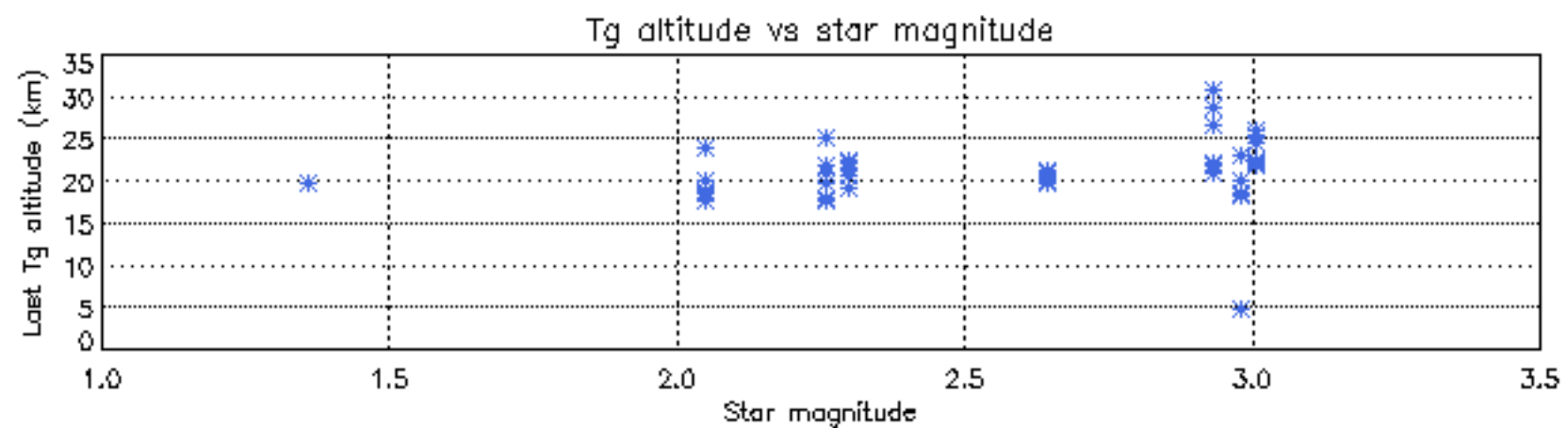
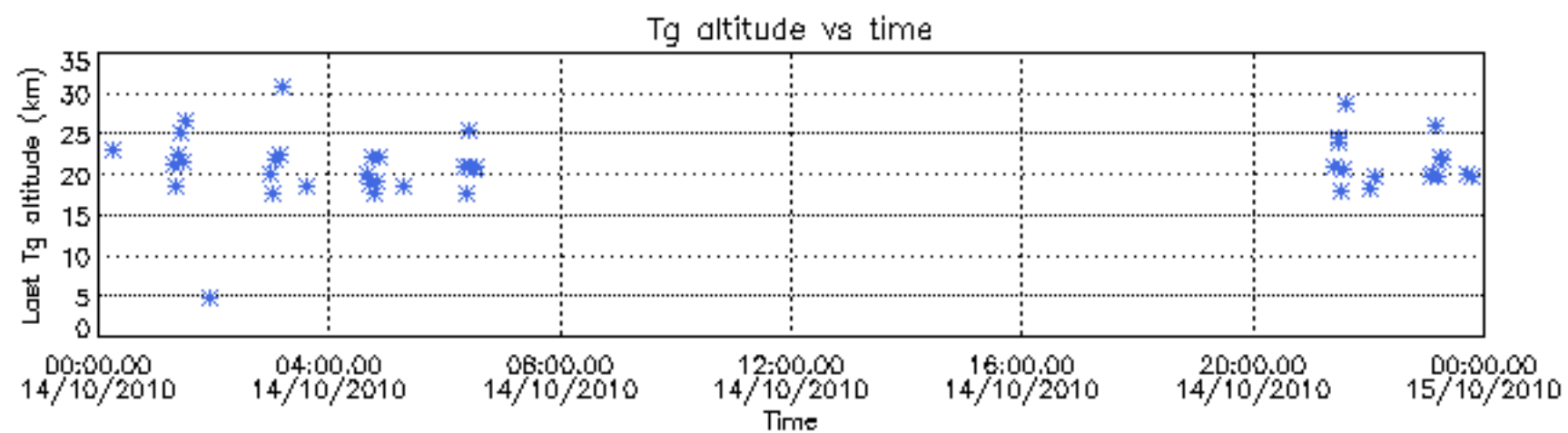
Percentage of saturation errors per profile

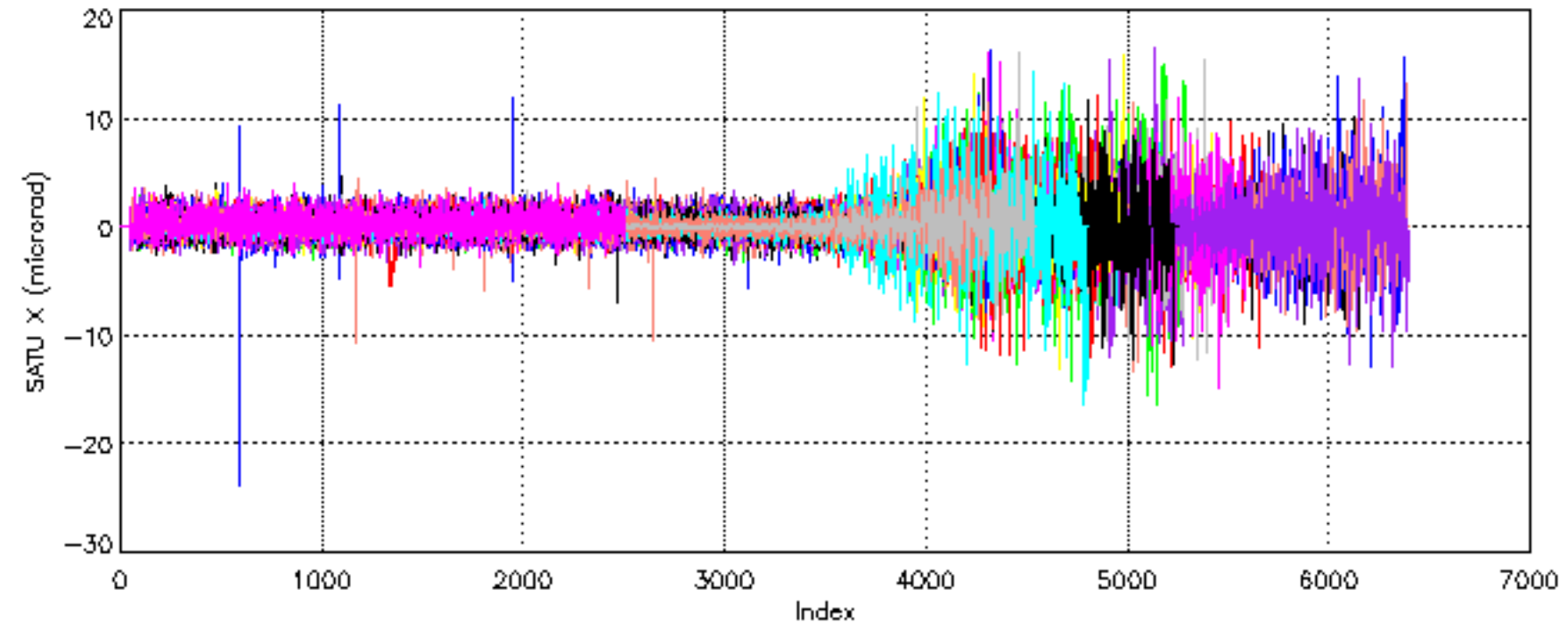


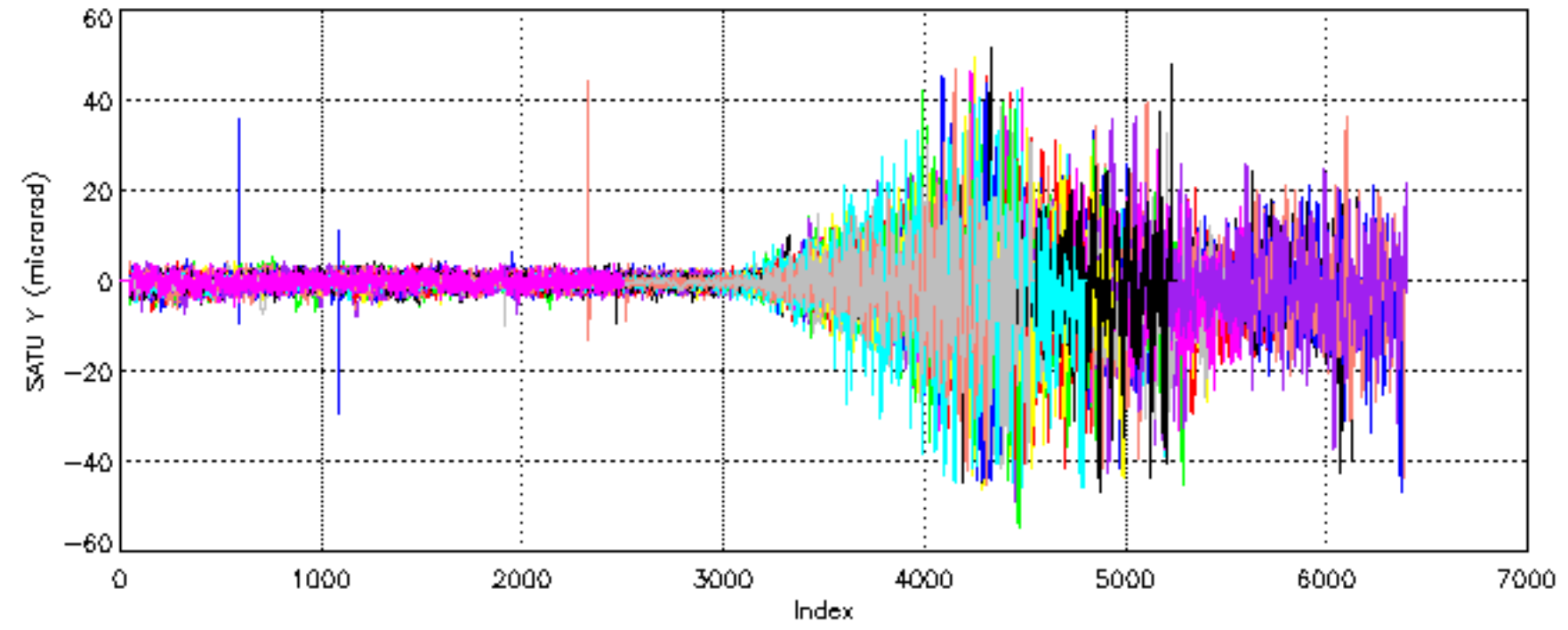
Tangent altitude at which the star is lost

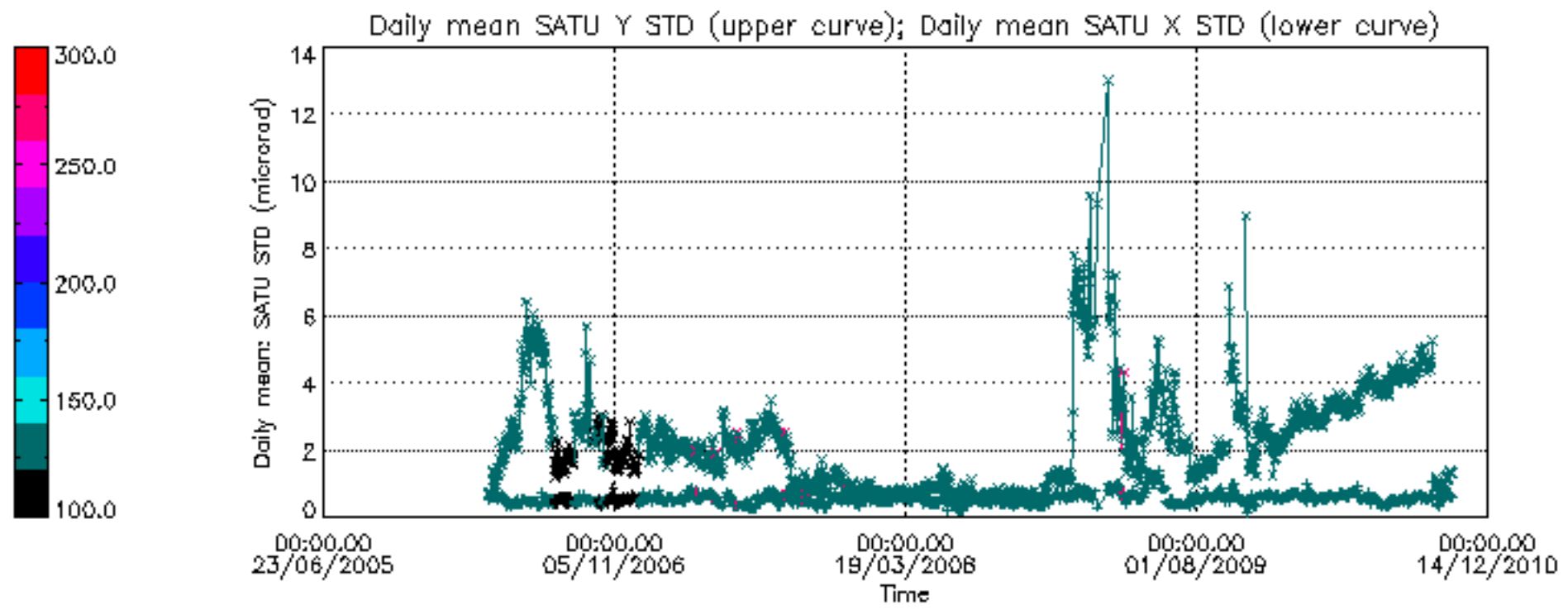


Tangent altitude at which the star is lost









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 1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
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 1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
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 2;-1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
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 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
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 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
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 4; -449.9; 01-OCT-2010 05:40:19; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44891
 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
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 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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 7; 4607.3; 02-OCT-2010 18:17:10; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44913
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 11; 6138.8; 02-OCT-2010 18:42:42; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44913
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 3; 2181.1; 02-OCT-2010 19:17:20; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44914
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 6; 2945.7; 02-OCT-2010 19:30:05; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44914
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 9; 5605.3; 02-OCT-2010 20:14:24; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44914
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 3; -22.3; 03-OCT-2010 01:23:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44917
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 5; 190.1; 03-OCT-2010 01:26:33; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;44918
 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918
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9; 6014.3; 03-OCT-2010 03:03:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44918
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15; 8216.0; 03-OCT-2010 03:40:18; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;44918
16; 8463.6; 03-OCT-2010 03:44:26; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44918
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3; 5609.7; 03-OCT-2010 04:37:28; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44919
4; 5871.4; 03-OCT-2010 04:41:50; Dark ; 60.5; 37; 25Del CMA ; 1.83; 5900;occ; 121; 0;44919
5; 6015.2; 03-OCT-2010 04:44:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44919
6; 6143.5; 03-OCT-2010 04:46:22; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44919
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9; 6971.1; 03-OCT-2010 05:00:09; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44919
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11; 8215.8; 03-OCT-2010 05:20:54; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44919
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13; 8677.7; 03-OCT-2010 05:28:36; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44919
14; 8980.3; 03-OCT-2010 05:33:39; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44919
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7; 935.8; 03-OCT-2010 06:40:46; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44921
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4; 2425.3; 03-OCT-2010 20:30:23; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44929
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7; 3017.8; 03-OCT-2010 20:40:15; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44929
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4; 2969.3; 20-OCT-2010 13:22:30; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45168
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 6; 4860.6; 21-OCT-2010 16:43:36; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;45184
 7; 5336.7; 21-OCT-2010 16:51:32; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;45184
 8; 5922.5; 21-OCT-2010 17:01:17; Dark ; 58.0; 132; 15Rho Pup ; 2.80; 6900;occ; 116; 0;45184
 9; 6066.6; 21-OCT-2010 17:03:41; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45184
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 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
 5; 2862.1; 21-OCT-2010 17:50:53; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;45185
 6; 3023.5; 21-OCT-2010 17:53:34; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45185
 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
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