

# GOMOS Daily Report 17-OCT-2010

## Level 0 and Level 1 products

### SUMMARY

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

#### [2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 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	20OCT2010 04:45:54
Data source version	GOMOS/5.01
Start time of products	17OCT2010 00:19:46
Stop time of products	17OCT2010 23:59:05
Store outputs in DB	Yes
Nb of level 1b prods	78
Nb of prods with errors	1

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

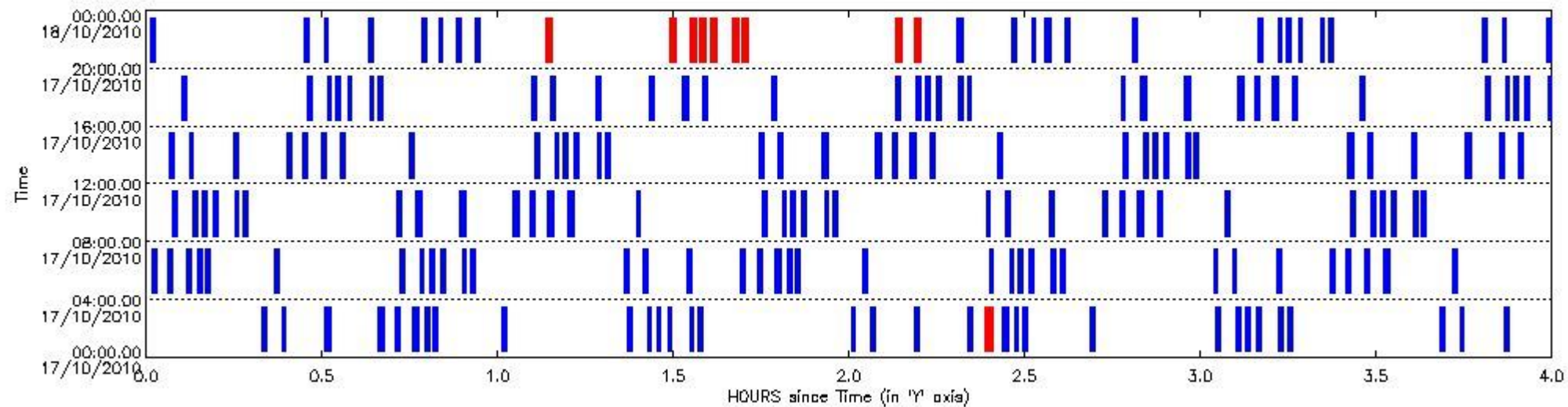
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

UTC start time	Star name	Star ID	Orbit
17-OCT-2010 02:23:20	ZetPup	70	45118
17-OCT-2010 21:08:09	The1Eri	157	45130
17-OCT-2010 21:29:28	6BetAri	105	45130
17-OCT-2010 21:32:57	43BetAnd	53	45130
17-OCT-2010 21:34:26	4BetTri	173	45130
17-OCT-2010 21:36:19	57Gam1And	73	45130
17-OCT-2010 21:40:10	37DelCas	110	45130
17-OCT-2010 21:41:34	23GamPer	160	45130
17-OCT-2010 22:07:52	17EpsLeo	166	45130
17-OCT-2010 22:11:11	32AlpLeo	22	45130

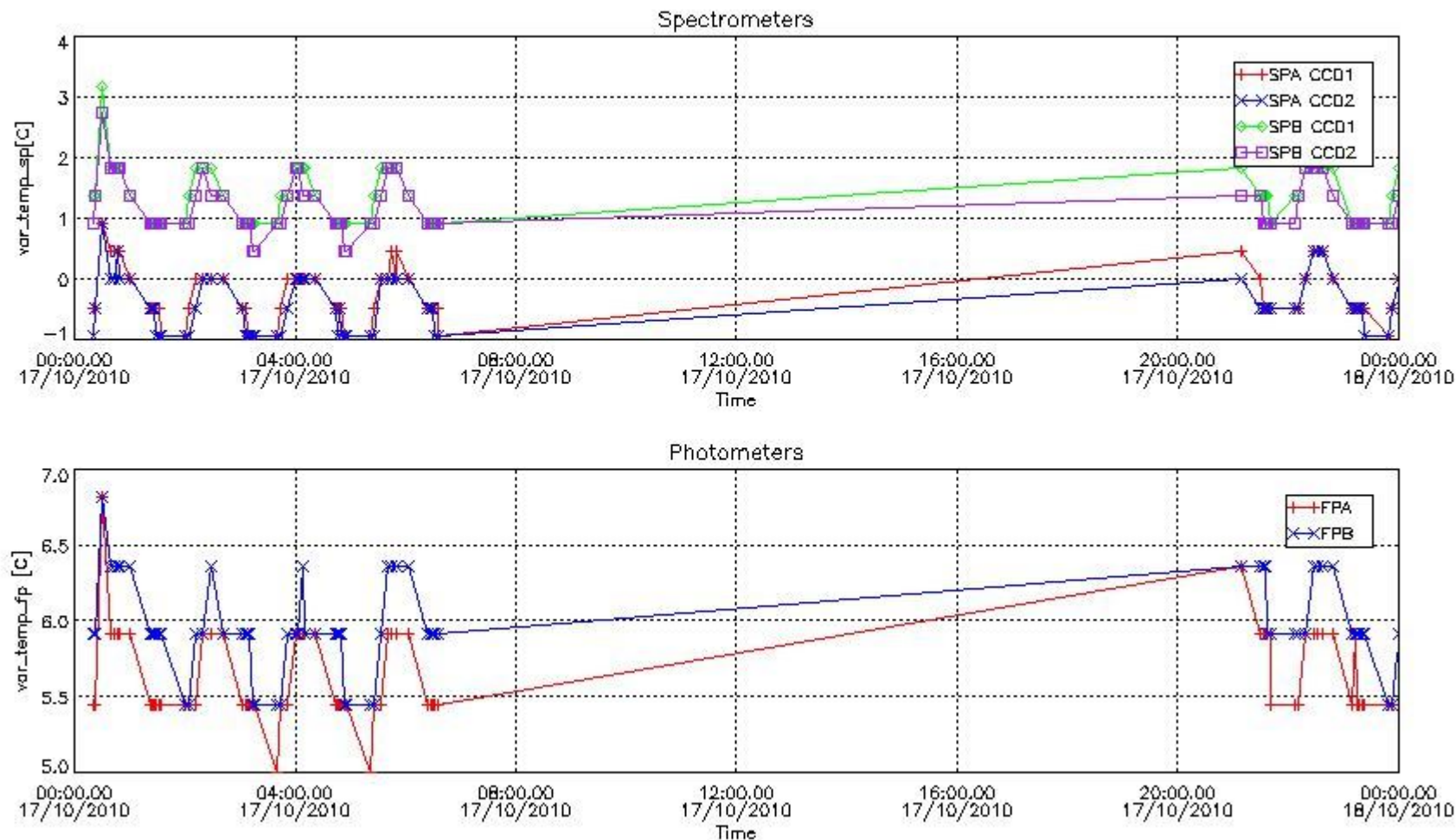
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101017_001946_000000432093_00474_45117_2590.N1	17-OCT-2010 00:19:46	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	45117	No

2	GOM_TRA_1PNPDE20101017_002304_000000412093_00474_45117_2591.N1	17-OCT-2010 00:23:04	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	45117	No
3	GOM_TRA_1PNPDE20101017_003032_000000532093_00474_45117_2603.N1	17-OCT-2010 00:30:32	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45117	Yes
4	GOM_TRA_1PNPDE20101017_003935_000000602093_00474_45117_2604.N1	17-OCT-2010 00:39:35	Dark	60.000	132	15Rho Pup	2.8030	6900.0	120	45117	No
5	GOM_TRA_1PNPDE20101017_004228_000000462093_00474_45117_2605.N1	17-OCT-2010 00:42:28	Dark	46.000	70	Zet Pup	2.2460	39000.	92	45117	No
6	GOM_TRA_1PNPDE20101017_004734_000000442093_00475_45118_2606.N1	17-OCT-2010 00:47:34	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45118	No
7	GOM_TRA_1PNPDE20101017_004854_000000492093_00475_45118_2607.N1	17-OCT-2010 00:48:54	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45118	No
8	GOM_TRA_1PNPDE20101017_010036_000000472093_00475_45118_2608.N1	17-OCT-2010 01:00:36	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45118	No
9	GOM_TRA_1PNPDE20101017_012207_000000482093_00475_45118_2609.N1	17-OCT-2010 01:22:07	Bright	47.500	105	6Bet Ari	2.6450	8900.0	95	45118	No
10	GOM_TRA_1PNPDE20101017_012535_000000432093_00475_45118_2610.N1	17-OCT-2010 01:25:35	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45118	No
11	GOM_TRA_1PNPDE20101017_012708_000000462093_00475_45118_2611.N1	17-OCT-2010 01:27:08	Bright	45.500	173	4Bet Tri	3.0040	8900.0	91	45118	No
12	GOM_TRA_1PNPDE20101017_012901_000000462093_00475_45118_2612.N1	17-OCT-2010 01:29:01	Bright	45.500	73	57Gam1And	2.2600	13100.	91	45118	No
13	GOM_TRA_1PNPDE20101017_013248_000000392093_00475_45118_2613.N1	17-OCT-2010 01:32:48	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	45118	No
14	GOM_TRA_1PNPDE20101017_013416_000000462093_00475_45118_2614.N1	17-OCT-2010 01:34:16	Bright	46.000	160	23Gam Per	2.9300	4700.0	92	45118	No
15	GOM_TRA_1PNPDE20101017_020023_000000432093_00475_45118_2615.N1	17-OCT-2010 02:00:23	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	45118	No
16	GOM_TRA_1PNPDE20101017_020340_000000402093_00475_45118_2616.N1	17-OCT-2010 02:03:40	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	45118	No
17	GOM_TRA_1PNPDE20101017_021109_000000472093_00475_45118_2627.N1	17-OCT-2010 02:11:09	Dark	46.500	48	30Alp Hya	1.9770	4100.0	93	45118	No
18	GOM_TRA_1PNPDE20101017_022012_000000552093_00475_45118_2628.N1	17-OCT-2010 02:20:12	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45118	No
19	GOM_TRA_1PNPDE20101017_022811_000000442093_00476_45119_2629.N1	17-OCT-2010 02:28:11	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45119	No
20	GOM_TRA_1PNPDE20101017_022931_000000492093_00476_45119_2630.N1	17-OCT-2010 02:29:31	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45119	No
21	GOM_TRA_1PNPDE20101017_024113_000000442093_00476_45119_2631.N1	17-OCT-2010 02:41:13	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	45119	No
22	GOM_TRA_1PNPDE20101017_030243_000000462093_00476_45119_2632.N1	17-OCT-2010 03:02:43	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	45119	No
23	GOM_TRA_1PNPDE20101017_030610_000000402093_00476_45119_2633.N1	17-OCT-2010 03:06:10	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45119	No
24	GOM_TRA_1PNPDE20101017_030743_000000472093_00476_45119_2634.N1	17-OCT-2010 03:07:43	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	45119	No
25	GOM_TRA_1PNPDE20101017_030936_000000462093_00476_45119_2635.N1	17-OCT-2010 03:09:36	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45119	No
26	GOM_TRA_1PNPDE20101017_031323_000000382093_00476_45119_2636.N1	17-OCT-2010 03:13:23	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	45119	No
27	GOM_TRA_1PNPDE20101017_031452_000000472093_00476_45119_2637.N1	17-OCT-2010 03:14:52	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45119	No
28	GOM_TRA_1PNPDE20101017_034059_000000442093_00476_45119_2648.N1	17-OCT-2010 03:40:59	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45119	No
29	GOM_TRA_1PNPDE20101017_034416_000000422093_00476_45119_2649.N1	17-OCT-2010 03:44:16	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	45119	No
30	GOM_TRA_1PNPDE20101017_035145_000000532093_00476_45119_2650.N1	17-OCT-2010 03:51:45	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45119	No
31	GOM_TRA_1PNPDE20101017_040049_000000552093_00476_45119_2651.N1	17-OCT-2010 04:00:49	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45119	No
32	GOM_TRA_1PNPDE20101017_040342_000000432093_00476_45119_2652.N1	17-OCT-2010 04:03:42	Dark	43.000	70	Zet Pup	2.2460	39000.	86	45119	No
33	GOM_TRA_1PNPDE20101017_040848_000000452093_00477_45120_2653.N1	17-OCT-2010 04:08:48	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	45120	No
34	GOM_TRA_1PNPDE20101017_041008_000000472093_00477_45120_2654.N1	17-OCT-2010 04:10:08	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45120	No
35	GOM_TRA_1PNPDE20101017_042150_000000442093_00477_45120_2655.N1	17-OCT-2010 04:21:50	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	45120	No
36	GOM_TRA_1PNPDE20101017_044319_000000462093_00477_45120_2656.N1	17-OCT-2010 04:43:19	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	45120	No
37	GOM_TRA_1PNPDE20101017_044646_000000392093_00477_45120_2657.N1	17-OCT-2010 04:46:46	Bright	38.500	53	43Bet And	2.0480	3300.0	77	45120	No
38	GOM_TRA_1PNPDE20101017_044818_000000452093_00477_45120_2658.N1	17-OCT-2010 04:48:18	Bright	45.000	173	4Bet Tri	3.0040	8900.0	90	45120	No
39	GOM_TRA_1PNPDE20101017_045011_000000462093_00477_45120_2659.N1	17-OCT-2010 04:50:11	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45120	No
40	GOM_TRA_1PNPDE20101017_045359_000000392093_00477_45120_2660.N1	17-OCT-2010 04:53:59	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45120	No
41	GOM_TRA_1PNPDE20101017_045527_000000462093_00477_45120_2661.N1	17-OCT-2010 04:55:27	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45120	No
42	GOM_TRA_1PNPDE20101017_052135_000000442093_00477_45120_2669.N1	17-OCT-2010 05:21:35	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45120	No
43	GOM_TRA_1PNPDE20101017_052453_000000412093_00477_45120_2670.N1	17-OCT-2010 05:24:53	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	45120	No
44	GOM_TRA_1PNPDE20101017_053222_000000512093_00477_45120_2671.N1	17-OCT-2010 05:32:22	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	45120	No
45	GOM_TRA_1PNPDE20101017_054127_000000522093_00477_45120_2672.N1	17-OCT-2010 05:41:27	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45120	No
46	GOM_TRA_1PNPDE20101017_054419_000000452093_00477_45120_2673.N1	17-OCT-2010 05:44:19	Dark	45.000	70	Zet Pup	2.2460	39000.	90	45120	No
47	GOM_TRA_1PNPDE20101017_054924_000000442093_00478_45121_2674.N1	17-OCT-2010 05:49:24	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45121	No
48	GOM_TRA_1PNPDE20101017_055044_000000572093_00478_45121_2675.N1	17-OCT-2010 05:50:44	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	45121	No
49	GOM_TRA_1PNPDE20101017_060226_000000422093_00478_45121_2676.N1	17-OCT-2010 06:02:26	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	45121	No
50	GOM_TRA_1PNPDE20101017_062354_000000472093_00478_45121_2677.N1	17-OCT-2010 06:23:54	Bright	47.000	105	6Bet Ari	2.6450	8900.0	94	45121	No
51	GOM_TRA_1PNPDE20101017_062722_000000412093_00478_45121_2678.N1	17-OCT-2010 06:27:22	Bright	41.000	53	43Bet And	2.0480	3300.0	82	45121	No
52	GOM_TRA_1PNPDE20101017_062854_000000452093_00478_45121_2679.N1	17-OCT-2010 06:28:54	Bright	45.000	173	4Bet Tri	3.0040	8900.0	90	45121	No
53	GOM_TRA_1PNPDE20101017_063047_000000462093_00478_45121_2680.N1	17-OCT-2010 06:30:47	Bright	45.500	73	57Gam1And	2.2600	13100.	91	45121	No
54	GOM_TRA_1PNPDE20101017_063435_000000392093_00478_45121_2681.N1	17-OCT-2010 06:34:35	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45121	No
55	GOM_TRA_1PNPDE20101017_063602_000000472093_00478_45121_2682.N1	17-OCT-2010 06:36:02	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45121	No
56	GOM_TRA_1PNPDE20101017_210753_000000452093_00487_45130_2716.N1	17-OCT-2010 21:07:53	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45130	No
57	GOM_TRA_1PNPDE20101017_212913_000000452093_00487_45130_2717.N1	17-OCT-2010 21:29:13	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45130	No
58	GOM_TRA_1PNPDE20101017_213242_000000412093_00487_45130_2718.N1	17-OCT-2010 21:32:42	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45130	No
59	GOM_TRA_1PNPDE20101017_213411_000000472093_00487_45130_2719.N1	17-OCT-2010 21:34:11	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45130	No
60	GOM_TRA_1PNPDE20101017_213604_000000472093_00487_45130_2720.N1	17-OCT-2010 21:36:04	Bright	47.000	73	57Gam1And	2.2600	13100.	94	45130	No

61	GOM_TRA_1PNPDE20101017_213955_000000392093_00487_45130_2721.N1	17-OCT-2010 21:39:55	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	45130	No
62	GOM_TRA_1PNPDE20101017_214118_000000452093_00487_45130_2722.N1	17-OCT-2010 21:41:18	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	45130	No
63	GOM_TRA_1PNPDE20101017_220737_000000622093_00487_45130_2723.N1	17-OCT-2010 22:07:37	Bright	62.000	166	17Eps Leo	2.9800	6000.0	124	45130	No
64	GOM_TRA_1PNPDE20101017_221055_000000422093_00487_45130_2724.N1	17-OCT-2010 22:10:55	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	45130	No
65	GOM_TRA_1PNPDE20101017_221829_000000582093_00487_45130_2736.N1	17-OCT-2010 22:18:29	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	45130	No
66	GOM_TRA_1PNPDE20101017_222740_000000542093_00487_45130_2737.N1	17-OCT-2010 22:27:40	Dark	54.000	132	15Rho Pup	2.8030	6900.0	108	45130	No
67	GOM_TRA_1PNPDE20101017_223113_000000412093_00488_45131_2738.N1	17-OCT-2010 22:31:13	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	45131	No
68	GOM_TRA_1PNPDE20101017_223652_000000462093_00488_45131_2739.N1	17-OCT-2010 22:36:52	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45131	No
69	GOM_TRA_1PNPDE20101017_224830_000000472093_00488_45131_2740.N1	17-OCT-2010 22:48:30	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45131	No
70	GOM_TRA_1PNPDE20101017_230948_000000472093_00488_45131_2741.N1	17-OCT-2010 23:09:48	Bright	47.000	105	6Bet Ari	2.6450	8900.0	94	45131	No
71	GOM_TRA_1PNPDE20101017_231318_000000392093_00488_45131_2742.N1	17-OCT-2010 23:13:18	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45131	No
72	GOM_TRA_1PNPDE20101017_231446_000000452093_00488_45131_2743.N1	17-OCT-2010 23:14:46	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	45131	No
73	GOM_TRA_1PNPDE20101017_231640_000000422093_00488_45131_2744.N1	17-OCT-2010 23:16:40	Bright	42.000	73	57Gam1And	2.2600	13100.	84	45131	No
74	GOM_TRA_1PNPDE20101017_232031_000000372093_00488_45131_2745.N1	17-OCT-2010 23:20:31	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	45131	No
75	GOM_TRA_1PNPDE20101017_232153_000000472093_00488_45131_2746.N1	17-OCT-2010 23:21:53	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	45131	No
76	GOM_TRA_1PNPDE20101017_234813_000000442093_00488_45131_2747.N1	17-OCT-2010 23:48:13	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45131	No
77	GOM_TRA_1PNPDE20101017_235132_000000422093_00488_45131_2748.N1	17-OCT-2010 23:51:32	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	45131	No
78	GOM_TRA_1PNPDE20101017_235905_000000532093_00488_45131_2761.N1	17-OCT-2010 23:59:05	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45131	No

### 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"



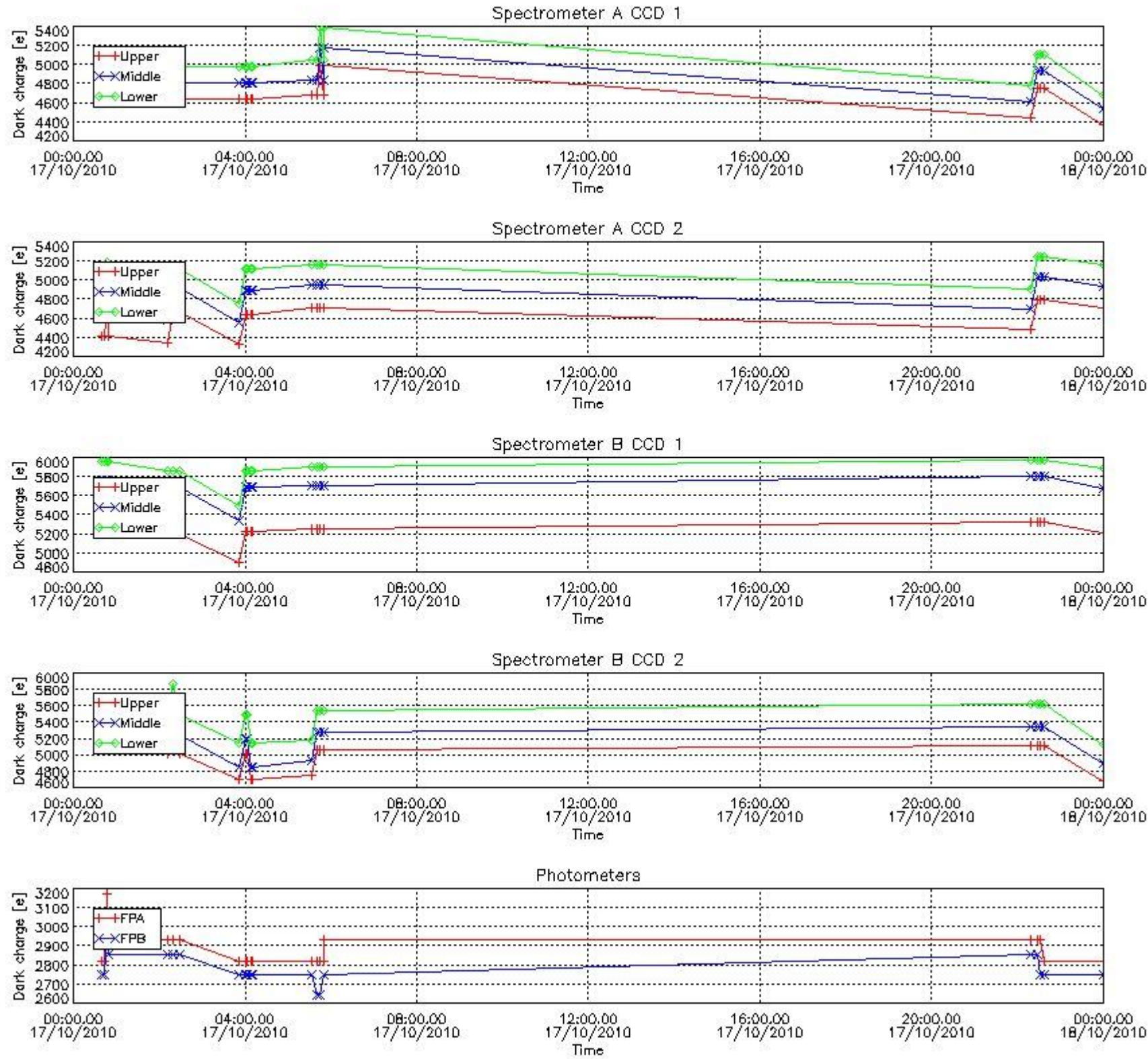
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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
GOM_TRA_1PNPDE20101017_210753_000000452093_00487_45130_2716.N1	DC map used
GOM_TRA_1PNPDE20101017_212913_000000452093_00487_45130_2717.N1	DC map used
GOM_TRA_1PNPDE20101017_213242_000000412093_00487_45130_2718.N1	DC map used
GOM_TRA_1PNPDE20101017_213411_000000472093_00487_45130_2719.N1	DC map used
GOM_TRA_1PNPDE20101017_213604_000000472093_00487_45130_2720.N1	DC map used
GOM_TRA_1PNPDE20101017_213955_000000392093_00487_45130_2721.N1	DC map used
GOM_TRA_1PNPDE20101017_214118_000000452093_00487_45130_2722.N1	DC map used
GOM_TRA_1PNPDE20101017_220737_000000622093_00487_45130_2723.N1	DC map used
GOM_TRA_1PNPDE20101017_221055_000000422093_00487_45130_2724.N1	DC map used

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



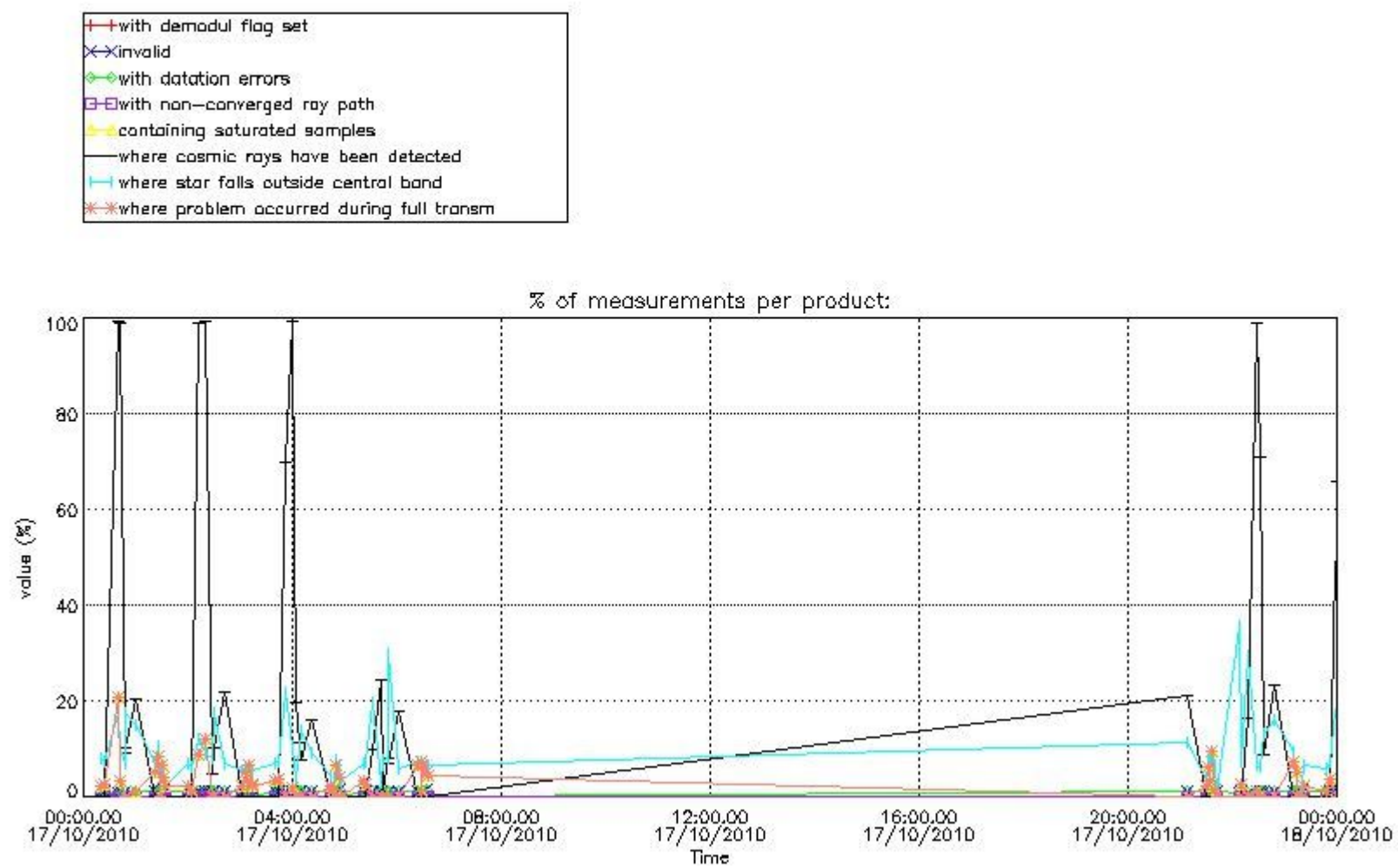
## 5. Demodulation flag and quality information monitoring

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:

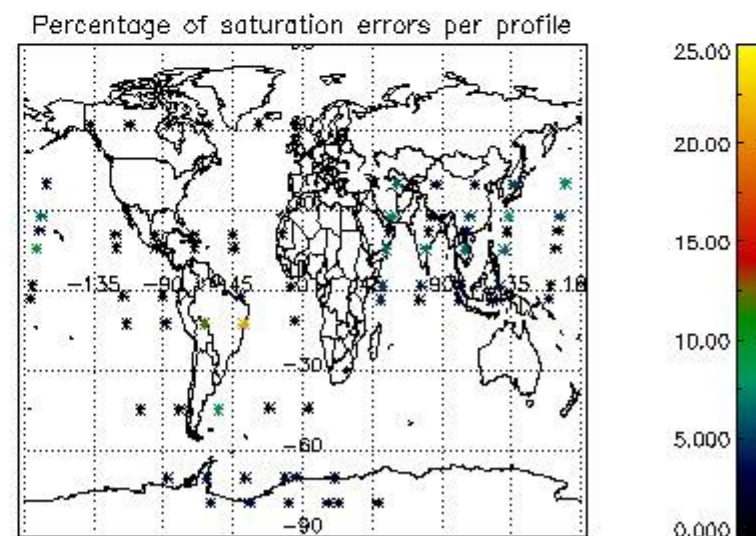
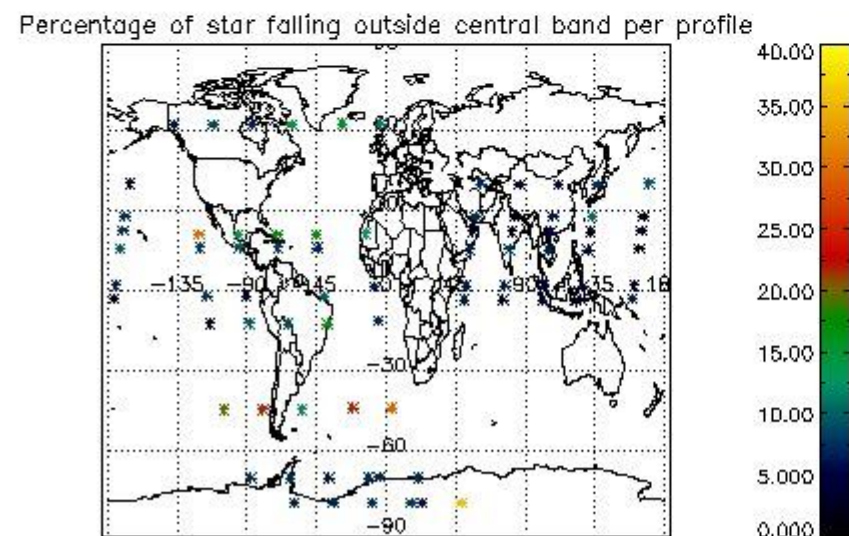
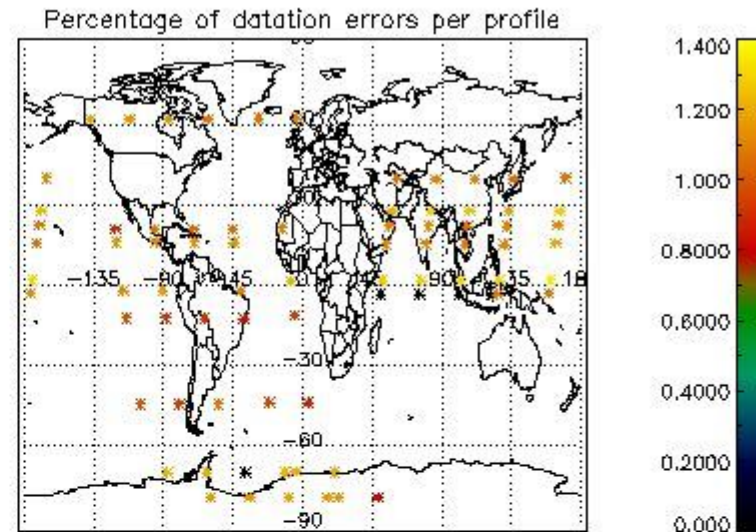
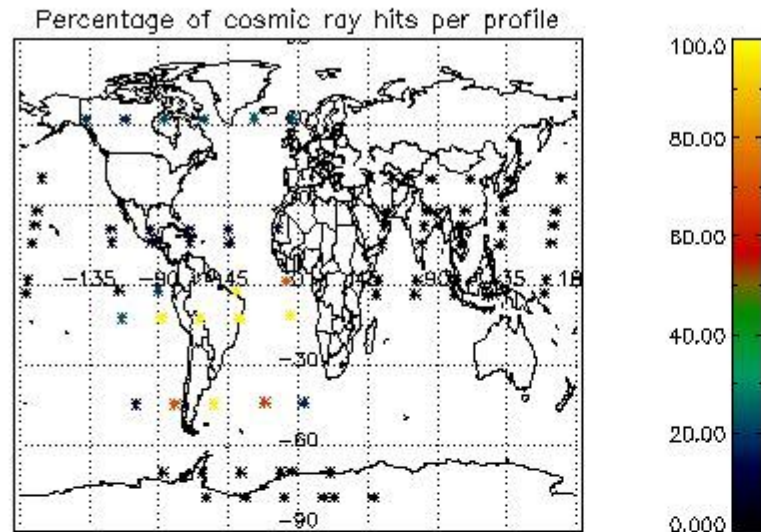
At least one measurement with demodulation flag set:	35.0649 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

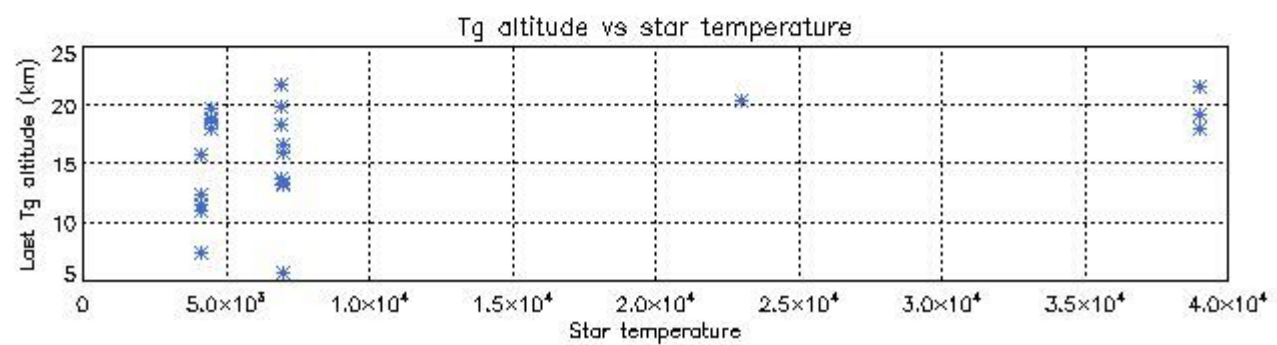
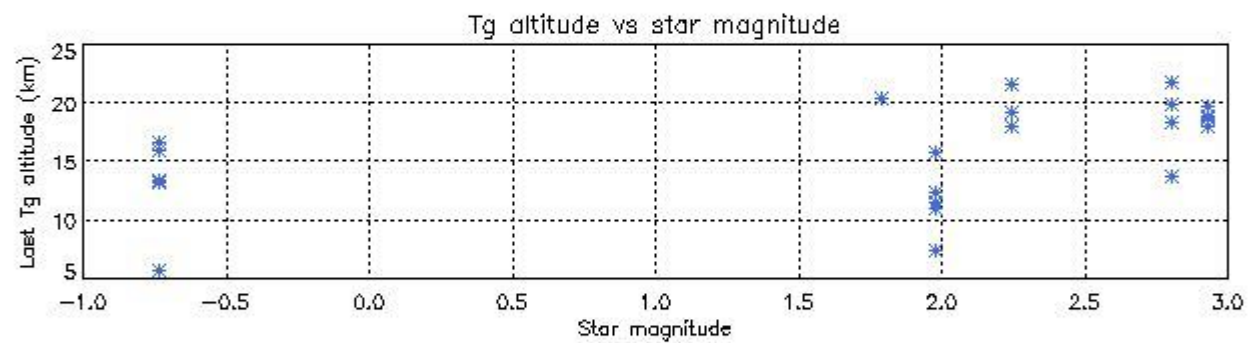
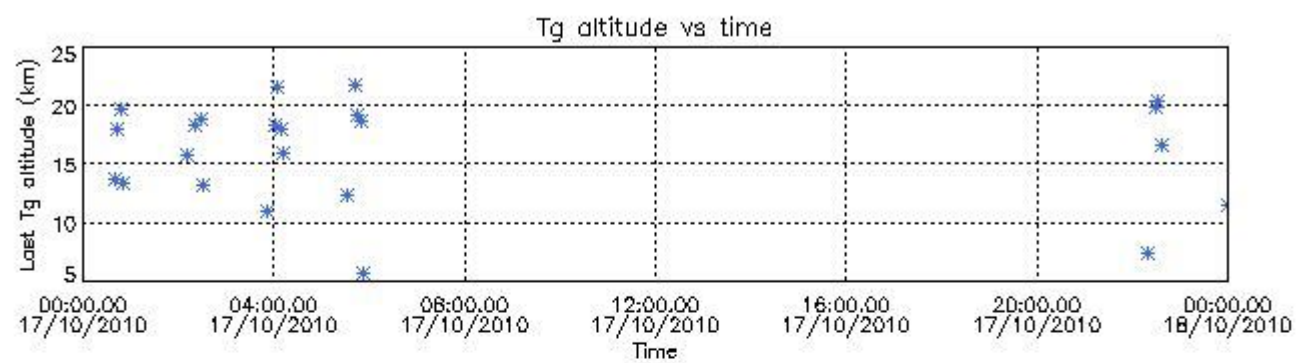
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.064	20.673	NaN
St. deviation:	4.3512	3.4059	NaN
Maximum:	21.814	25.788	NaN
Minimum:	5.7194	4.1847	NaN
Number of data:	23.000	48.000	NaN

### 6.2 Plot for DARK limb products

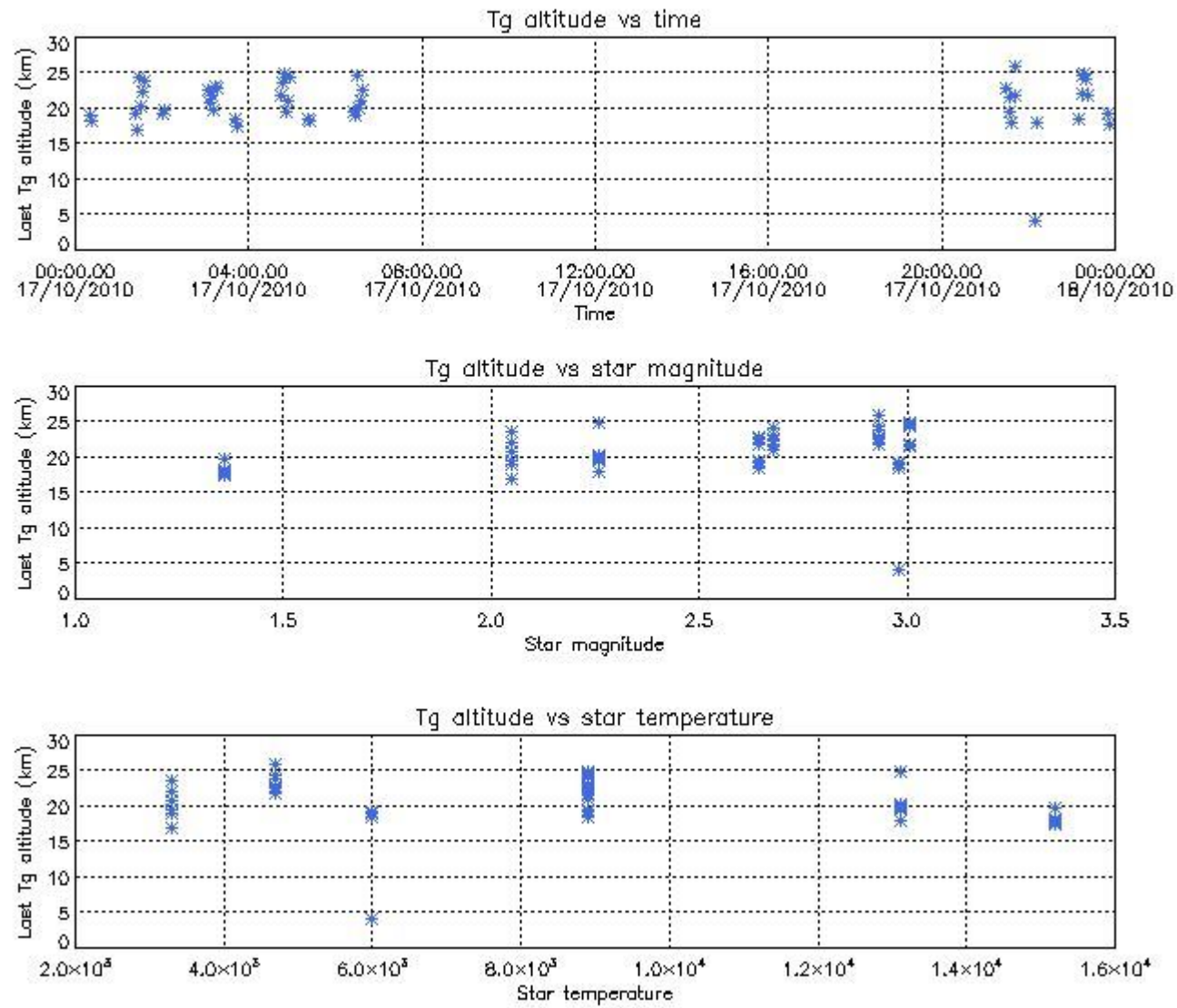


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

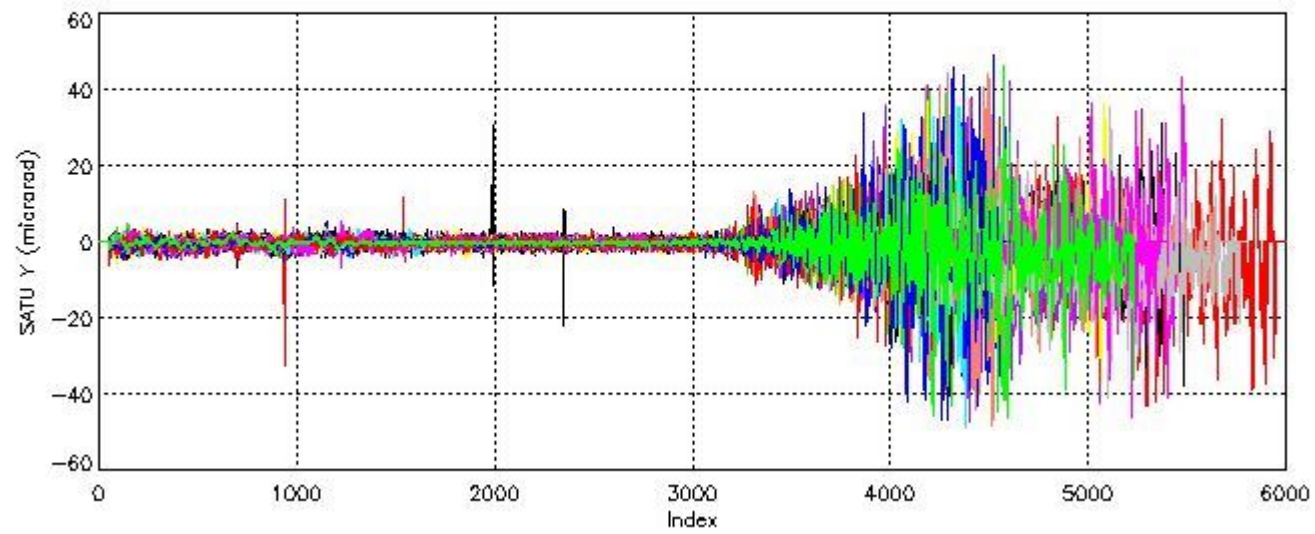
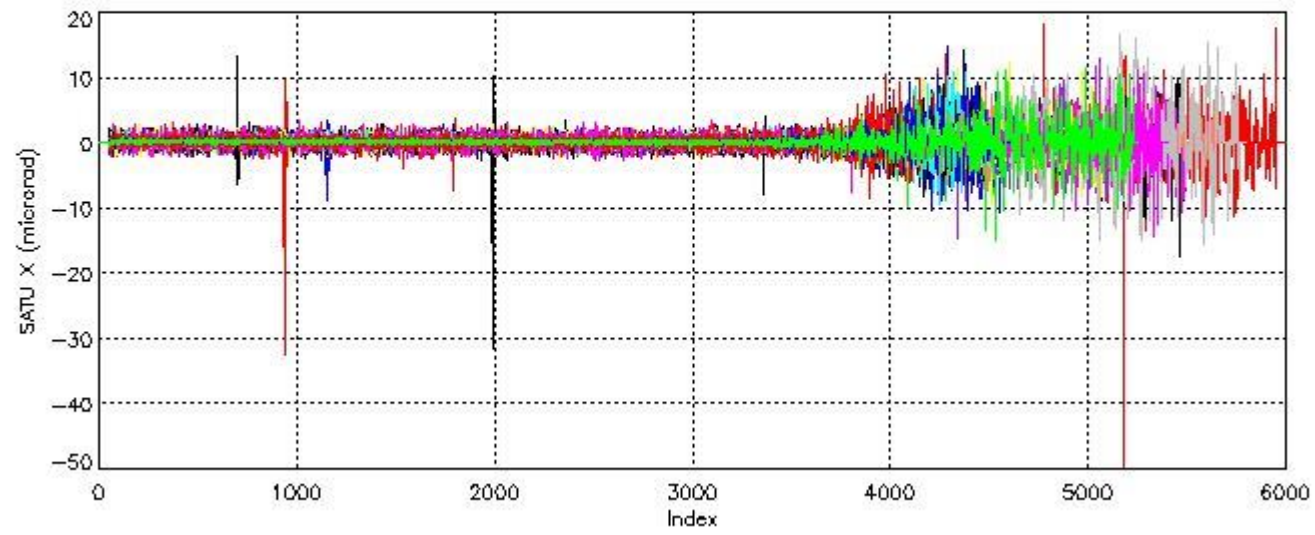


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.22117	-0.48783	0.20136	-0.49093
St. deviation:	0.50686	1.0650	0.81609	1.3571
Maximum:	13.300	11.200	5.6000	6.8000
Minimum:	-32.600	-32.500	-5.2000	-9.6000



Number of data:	24250.	24250.	51250.	51250.
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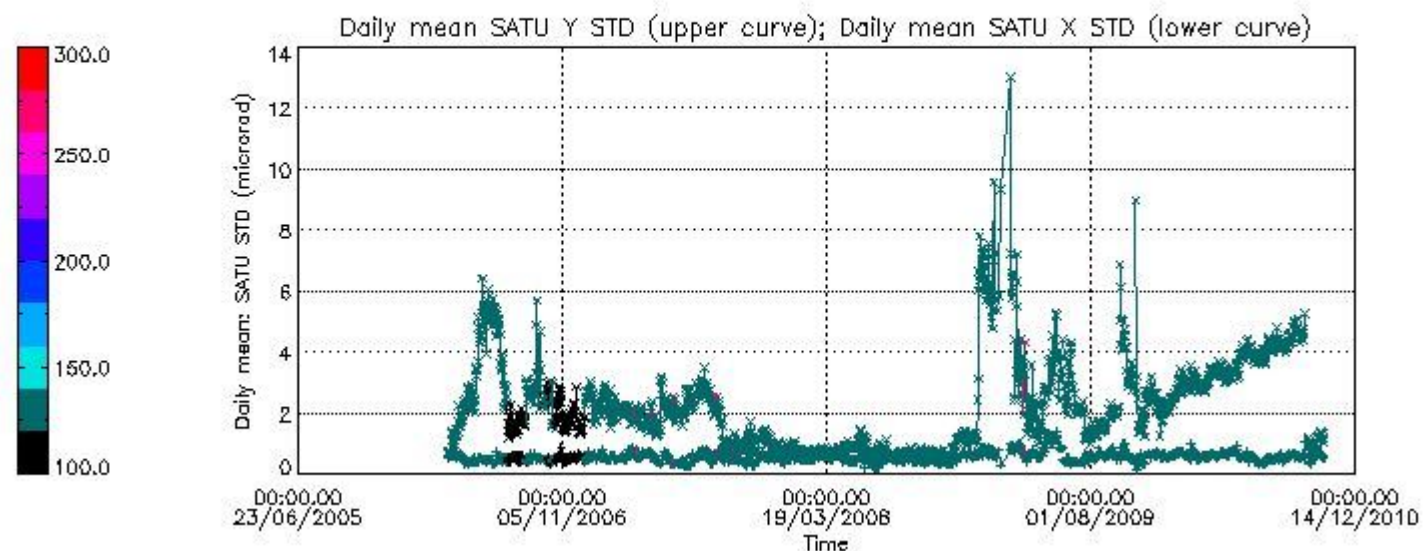
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

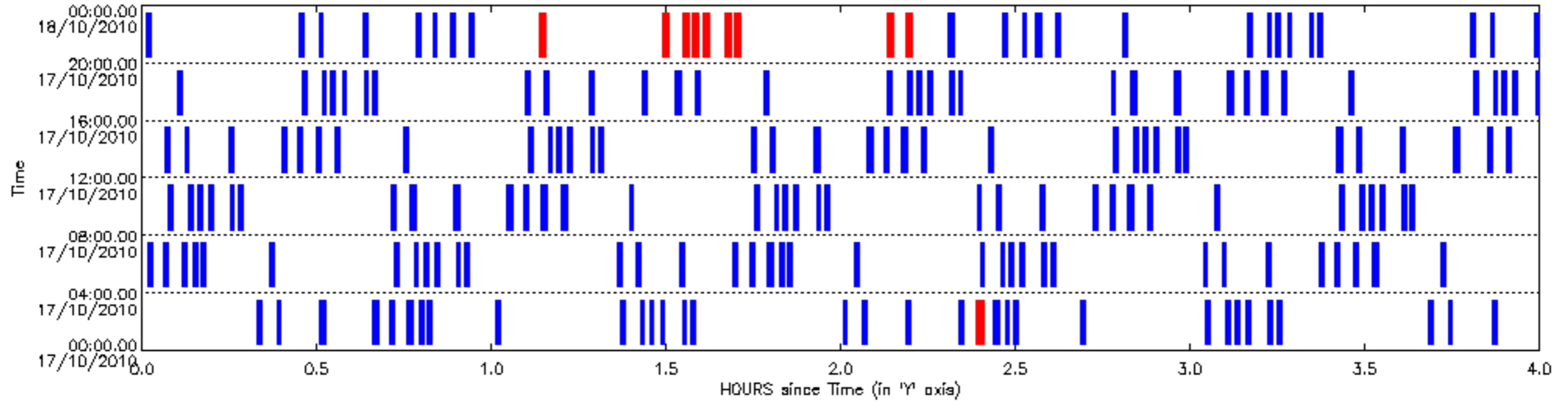
Lower curve: STD of SATU X axis

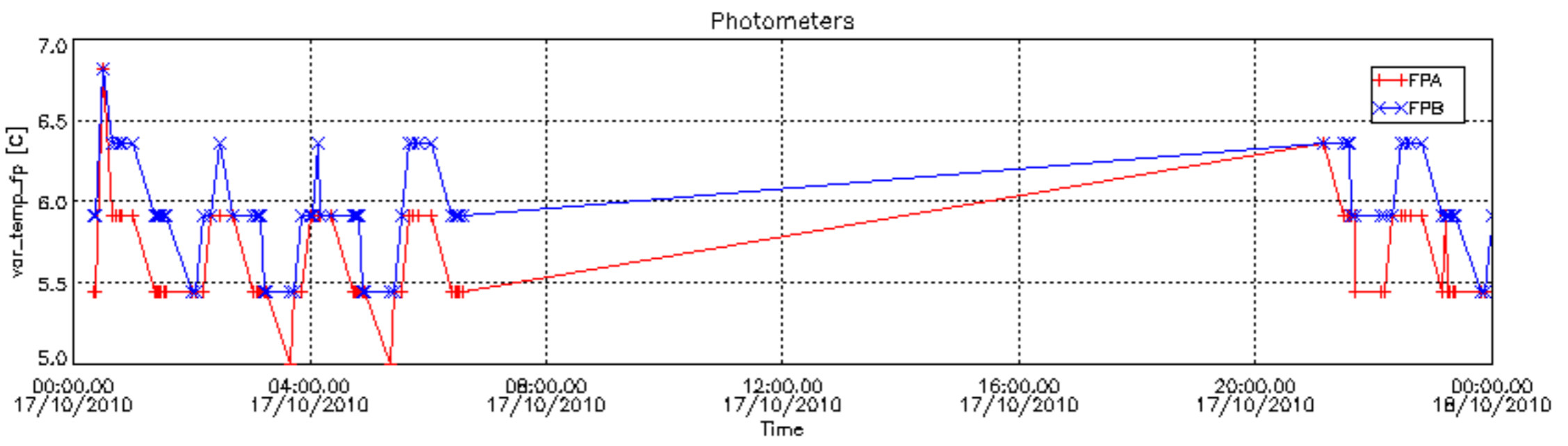
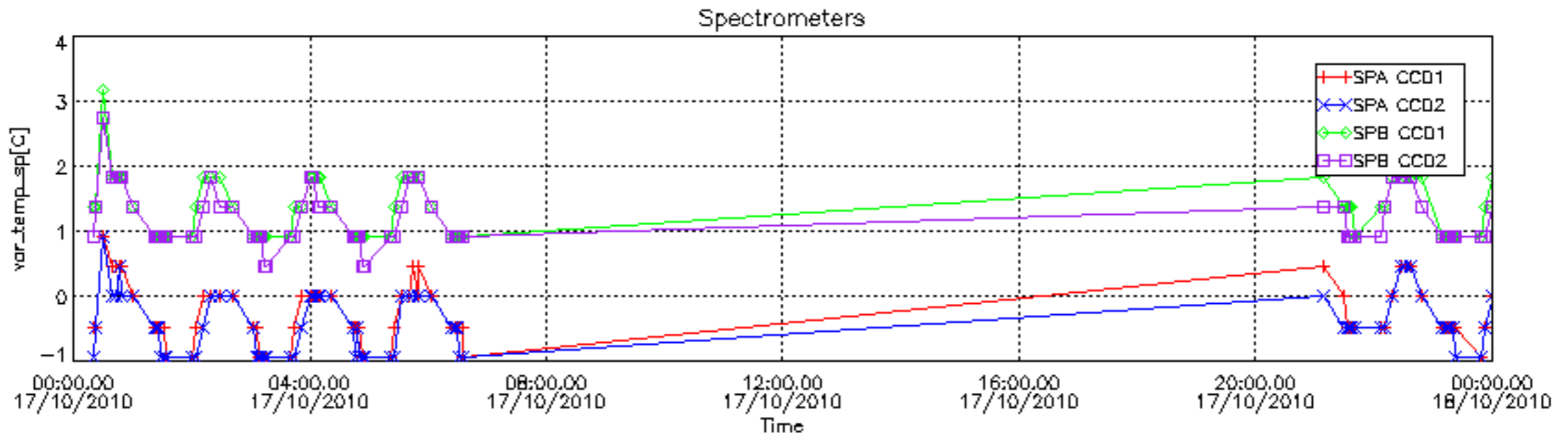


### 8. Auxiliary Data Files used for the production reported in section 2.4

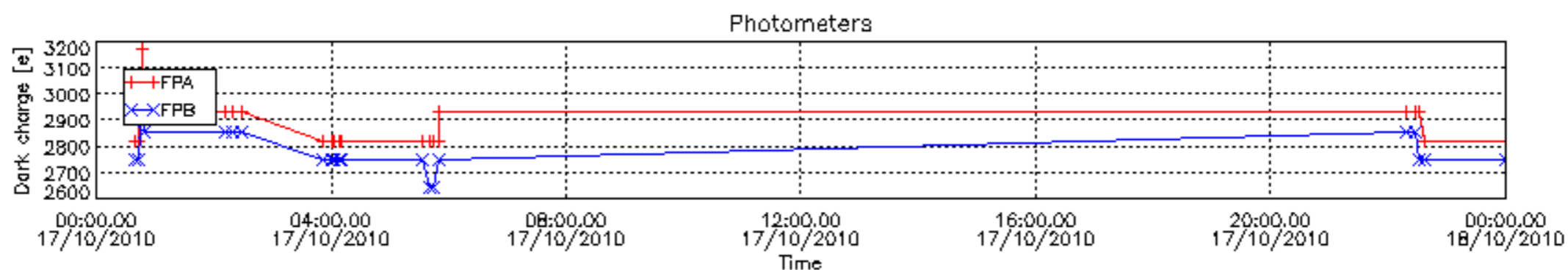
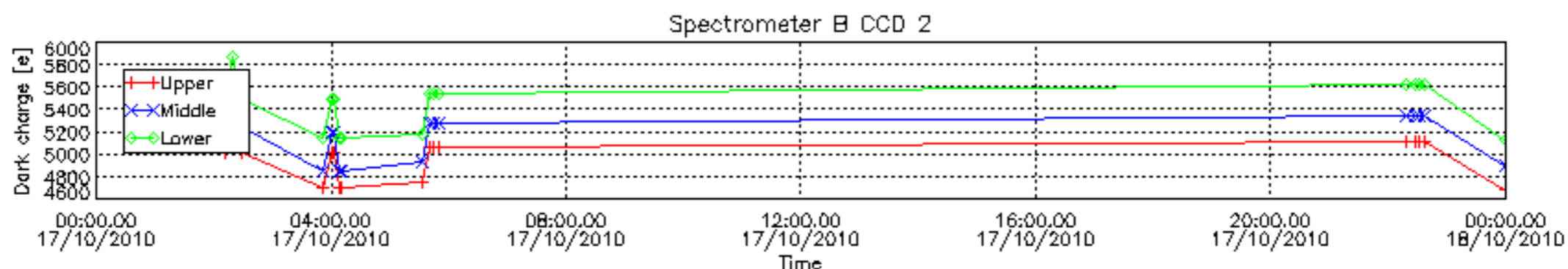
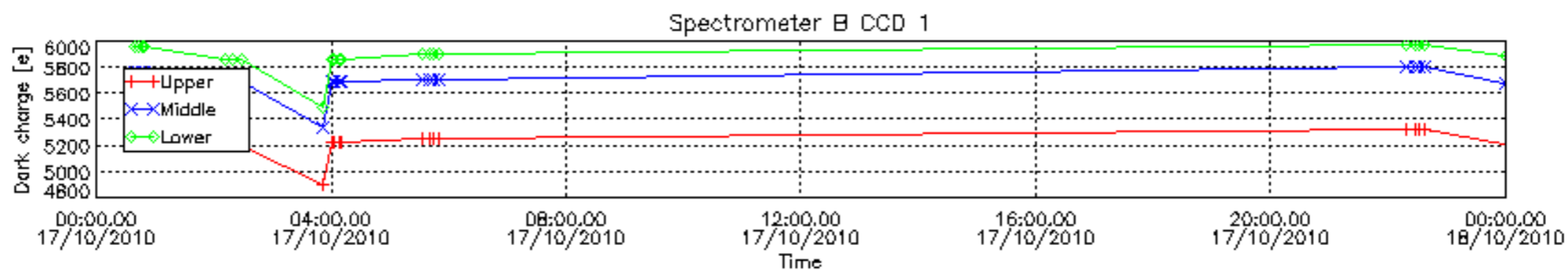
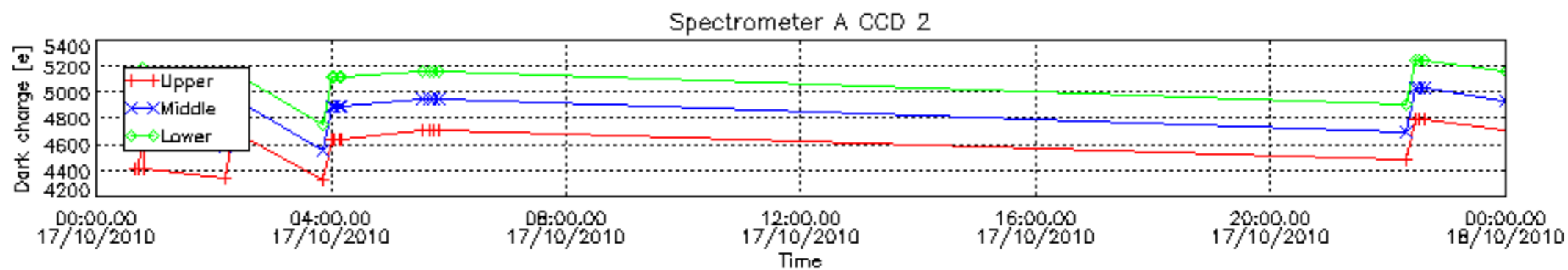
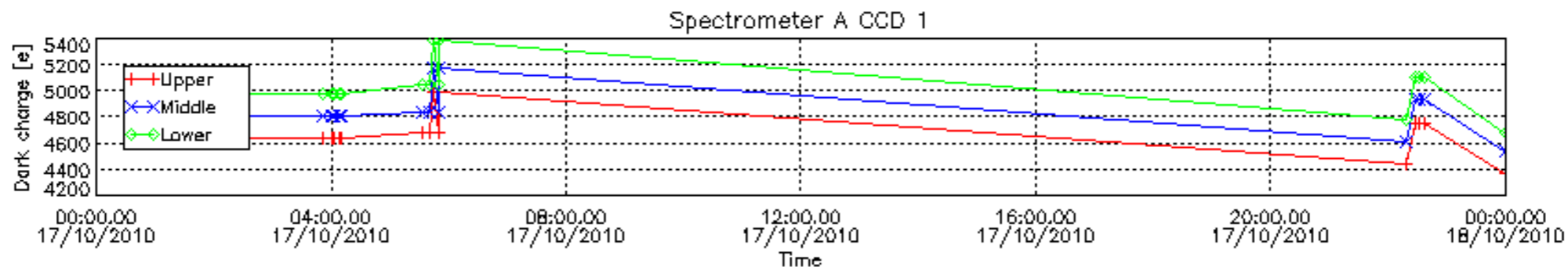
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

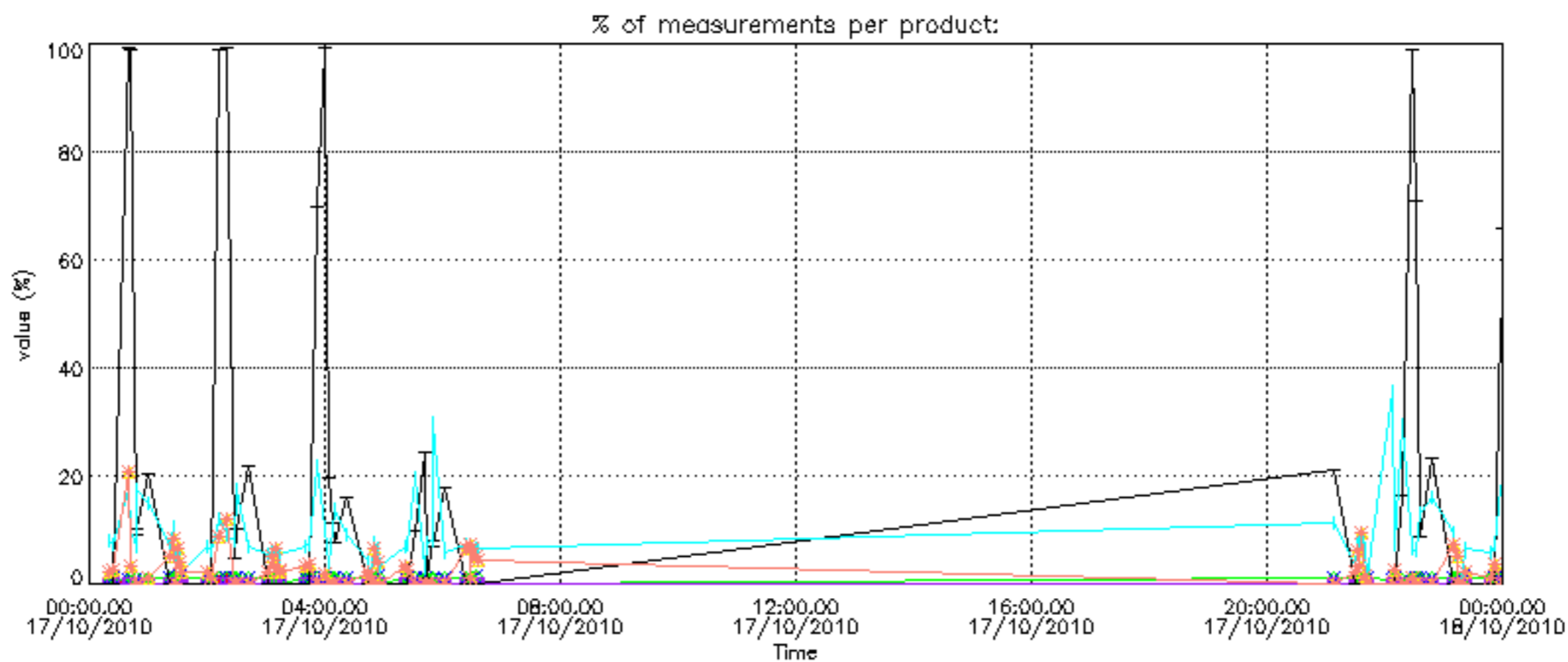
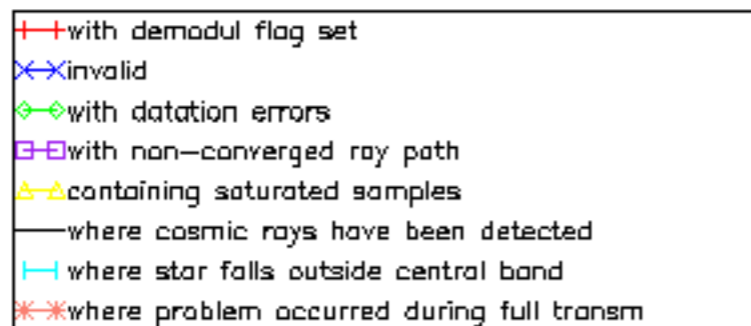
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-OCT-2010 00:19:46
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	17-OCT-2010 00:19:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	17-OCT-2010 00:19:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-OCT-2010 00:19:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	17-OCT-2010 00:19:46
ECMWF_FILE	AUX_ECF_AXNECM20101016_054115_20101016_210000_20101017_090000	1	17-OCT-2010 00:19:46
ECMWF_FILE	AUX_ECF_AXNECM20101016_172116_20101017_030000_20101017_150000	28	17-OCT-2010 03:40:59
ECMWF_FILE	AUX_ECA_AXNECM20101017_052114_20101016_210000_20101017_090000	42	17-OCT-2010 05:21:35
ECMWF_FILE	AUX_ECF_AXNECM20101017_054112_20101017_210000_20101018_090000	56	17-OCT-2010 21:07:53
OPTIONAL_ECMWF_FILE	MISSING	1	17-OCT-2010 00:19:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_224540_000057382093_00473_45116_1762.N1	1	17-OCT-2010 00:19:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101017_002637_000057382093_00474_45117_1763.N1	3	17-OCT-2010 00:30:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101017_020215_000044632093_00475_45118_1764.N1	17	17-OCT-2010 02:11:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101017_032157_000057382093_00476_45119_1765.N1	28	17-OCT-2010 03:40:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101017_050254_000057382093_00477_45120_1766.N1	42	17-OCT-2010 05:21:35
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101015_091356_20101014_190356_20101024_203007	56	17-OCT-2010 21:07:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101017_235436_000057382093_00488_45131_1769.N1	78	17-OCT-2010 23:59:05



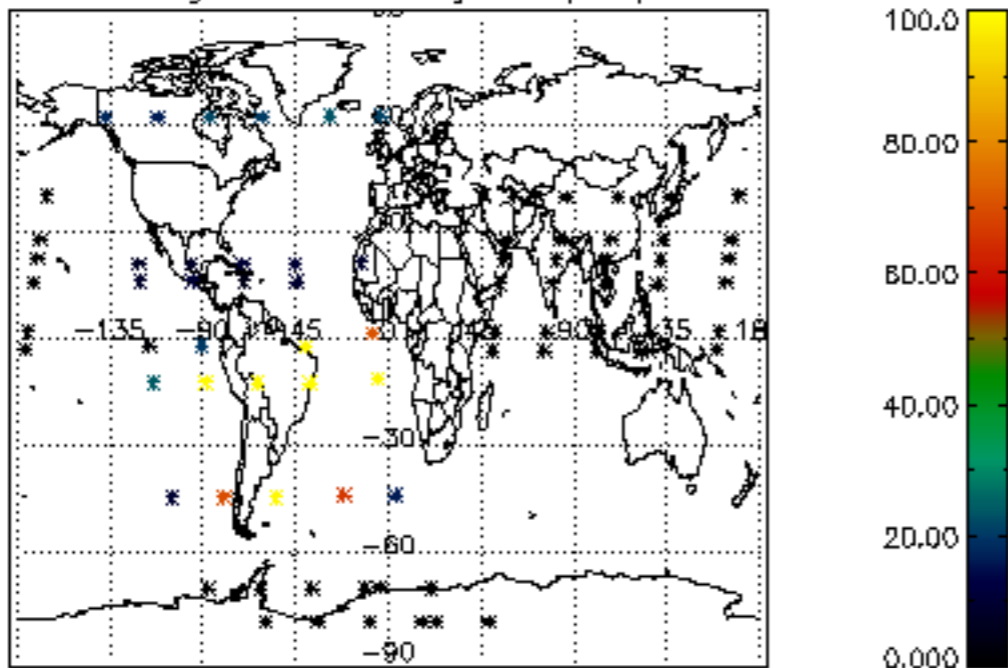




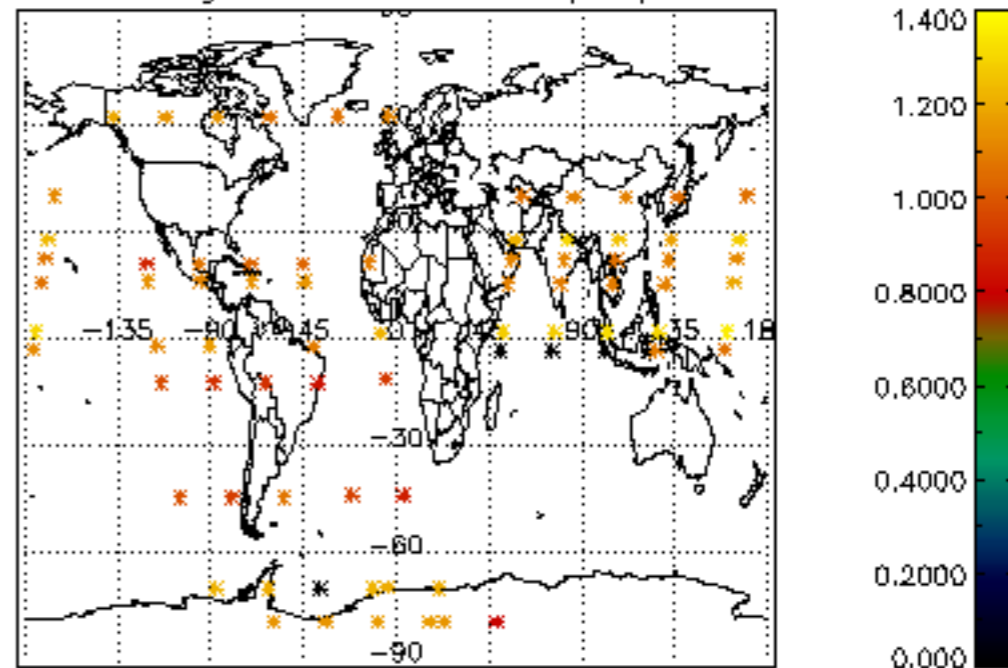




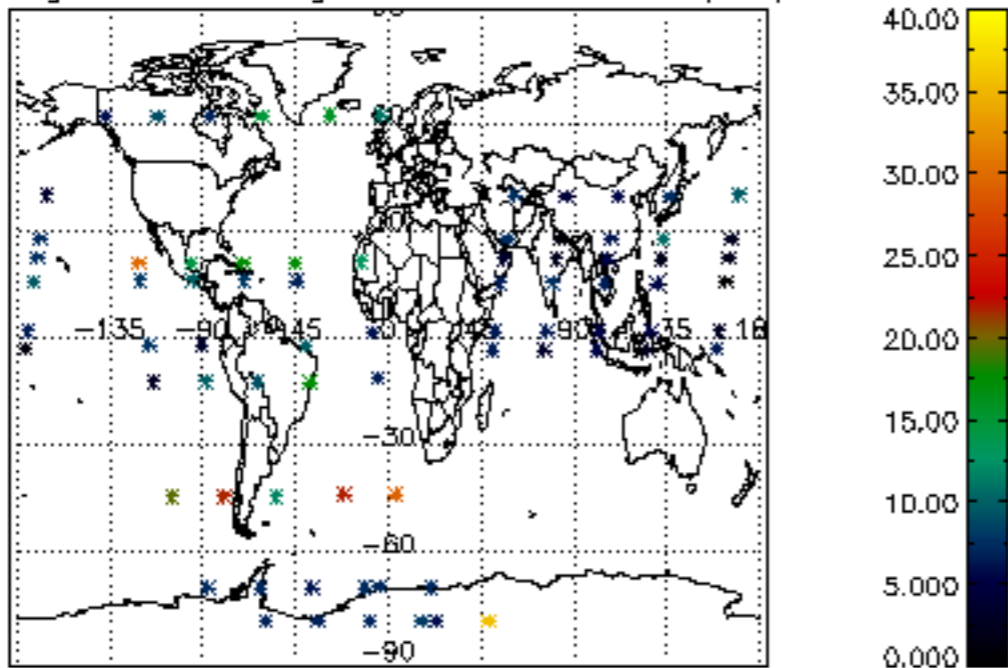
Percentage of cosmic ray hits per profile



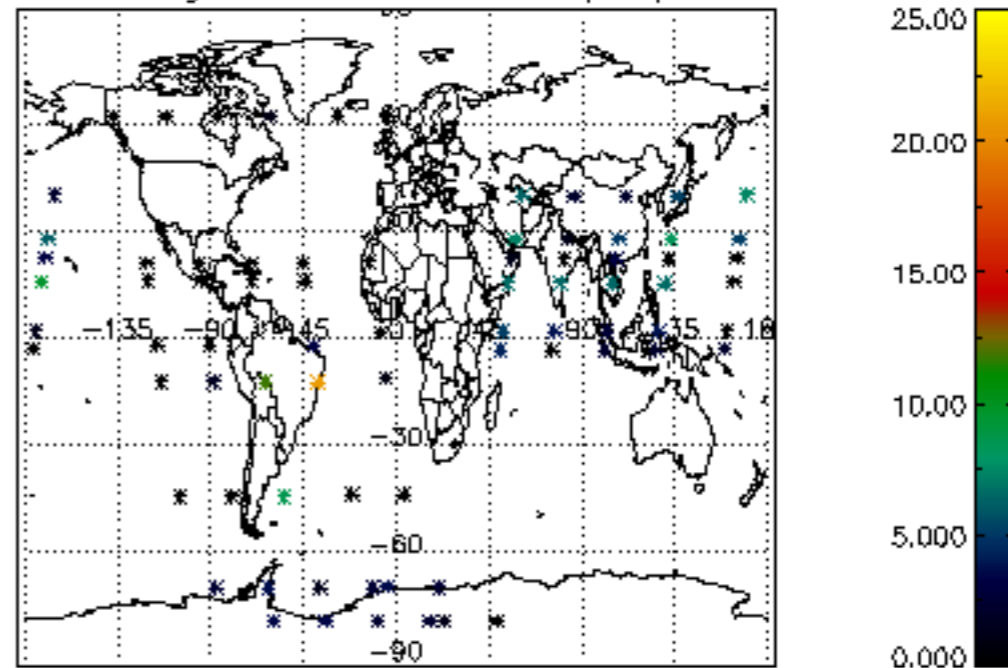
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

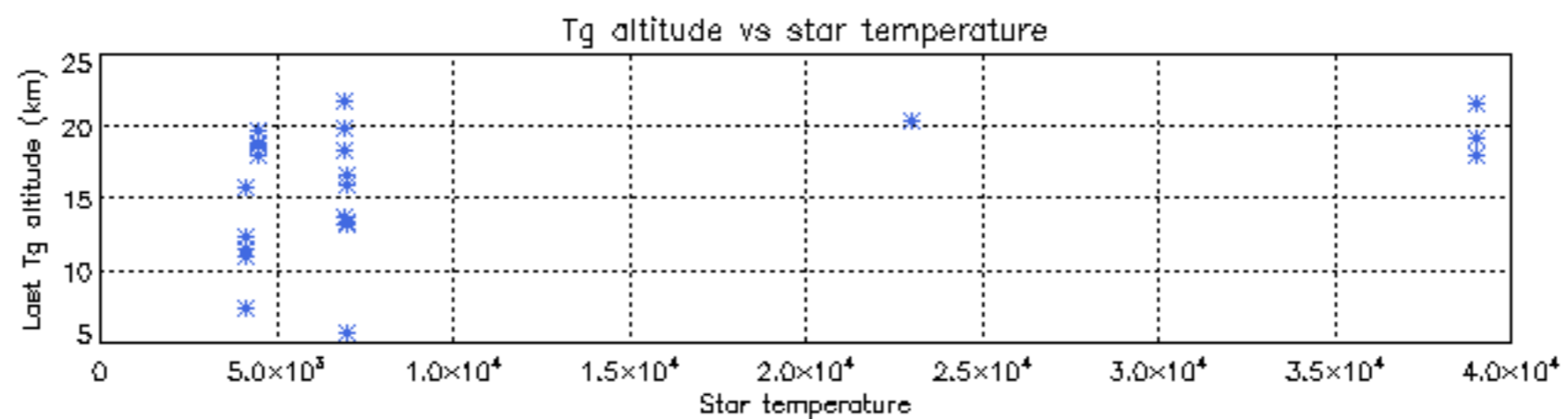
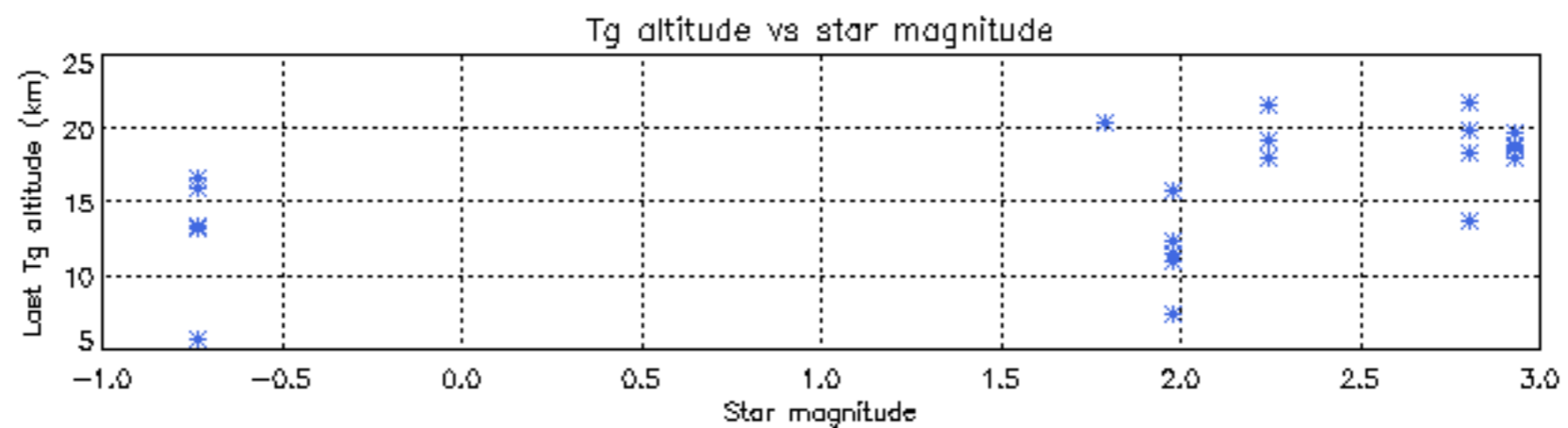
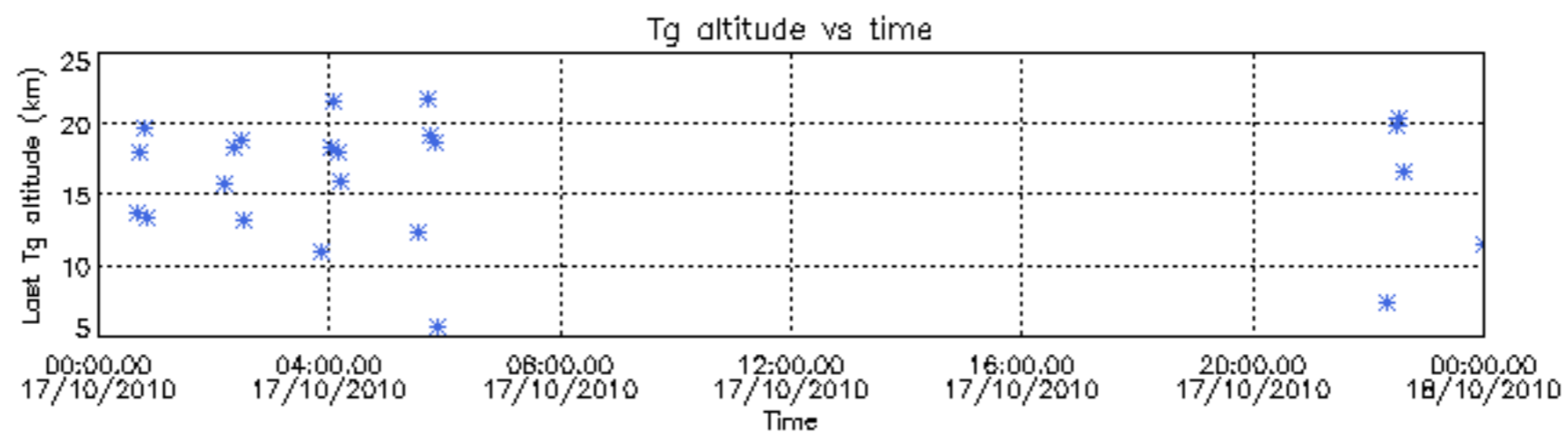


Percentage of saturation errors per profile

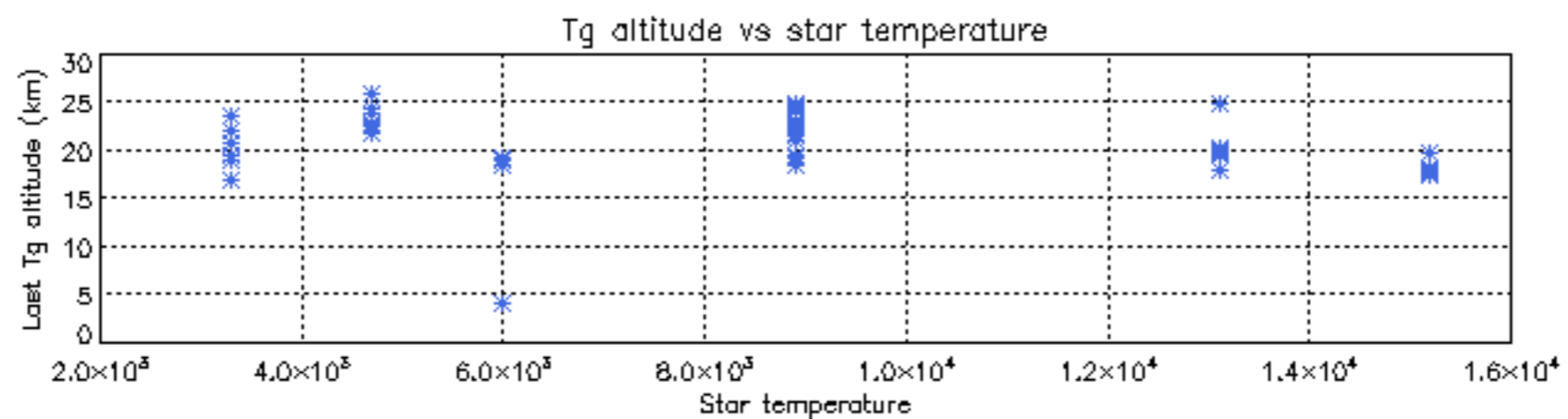
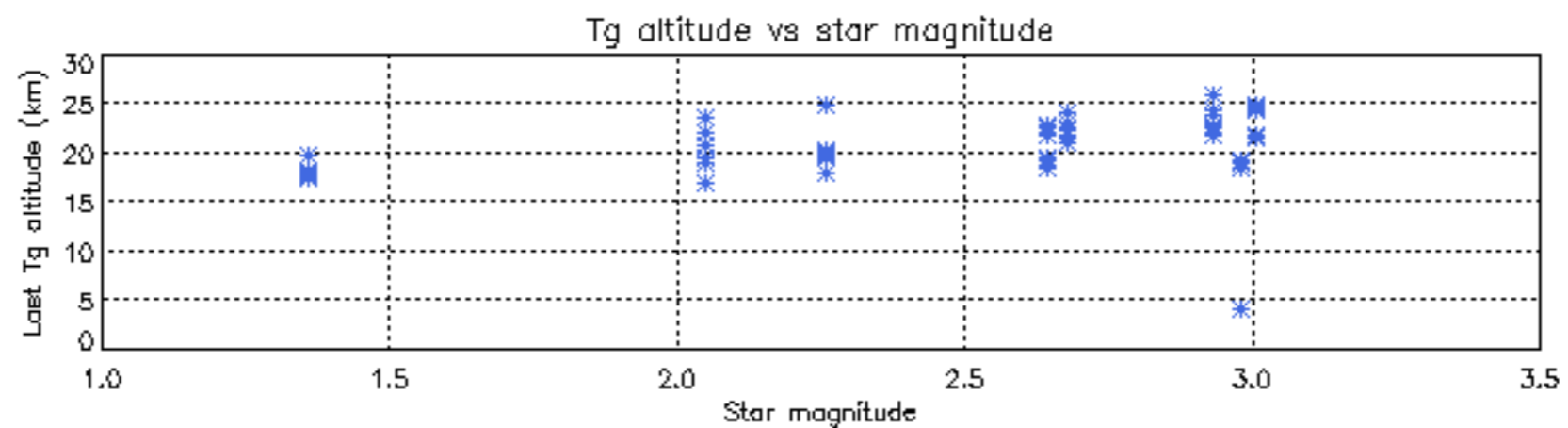
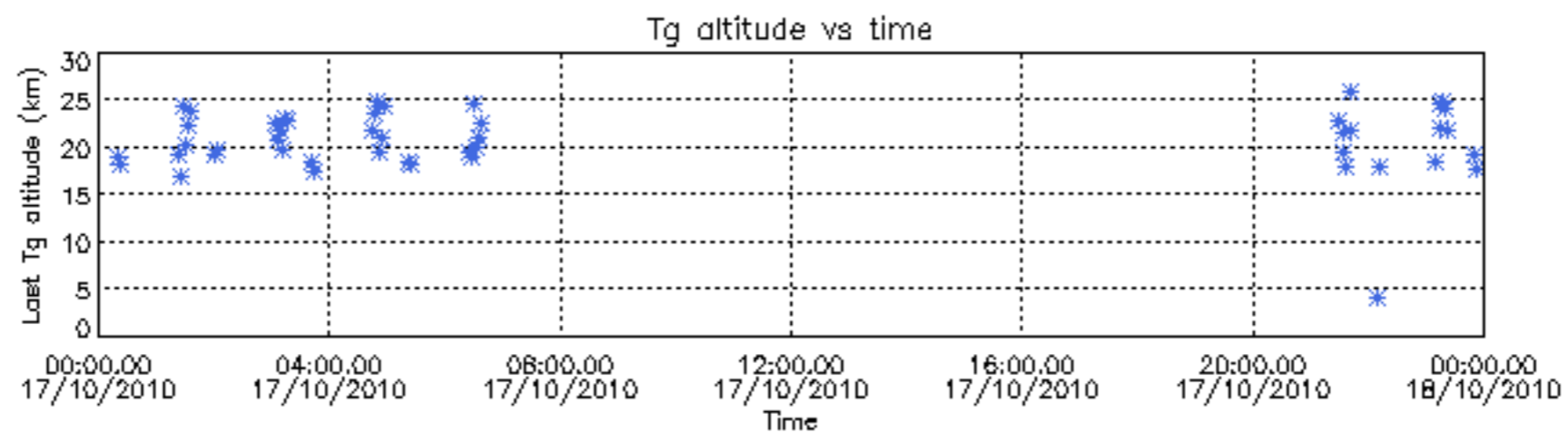


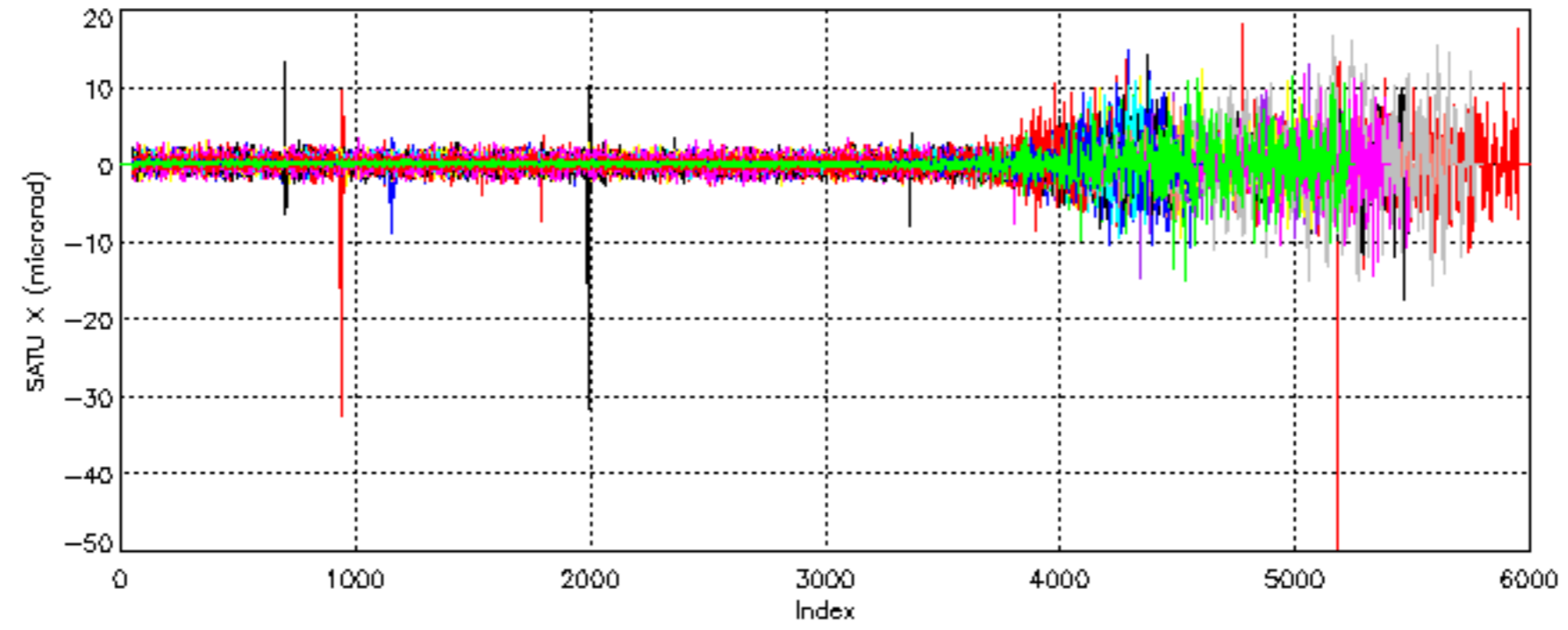


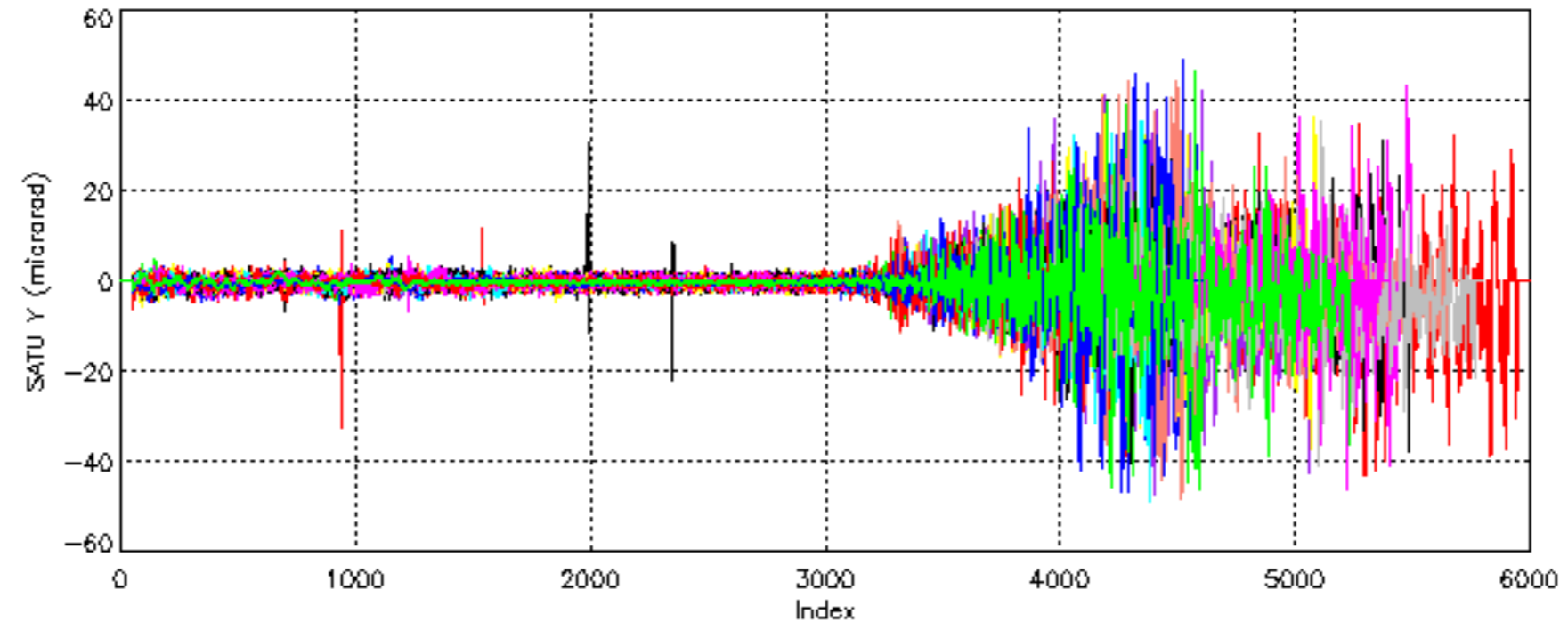
Tangent altitude at which the star is lost



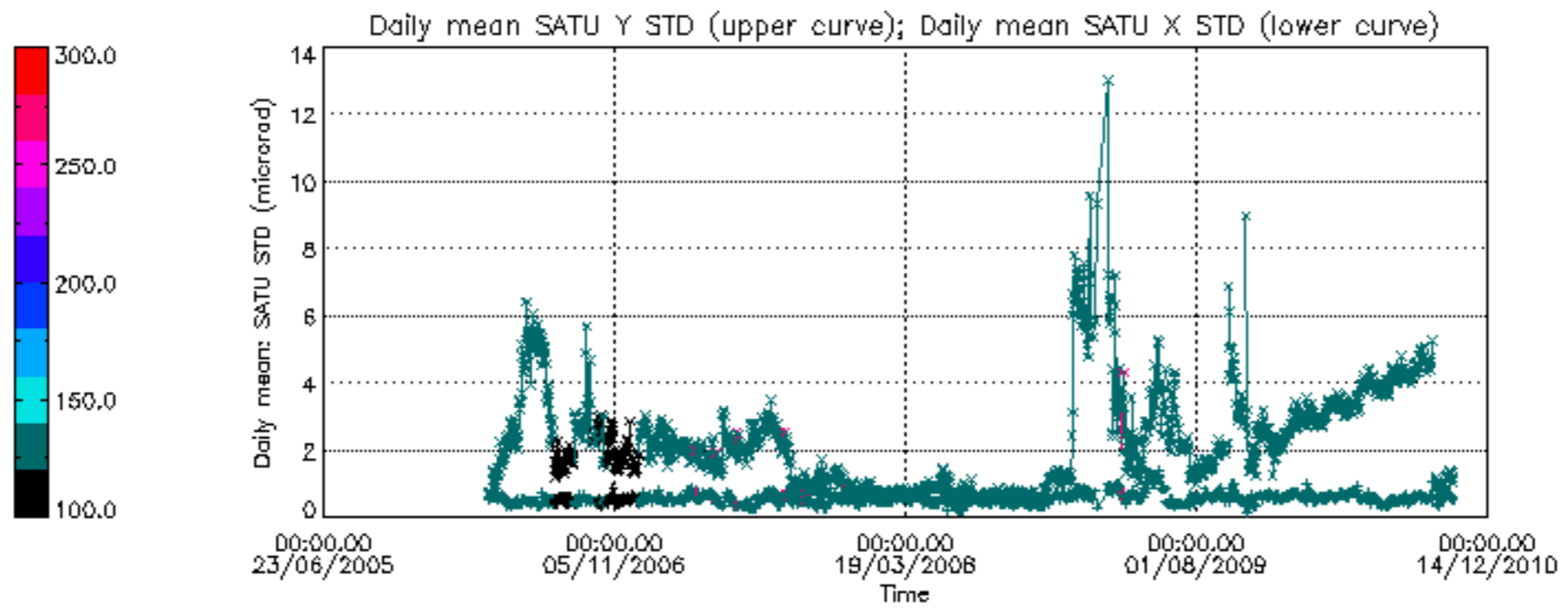
Tangent altitude at which the star is lost











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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  
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20101001\_021202\_000039472093\_00246\_44889\_0966.N1

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  
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

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1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890  
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890  
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890  
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890  
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890  
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890  
 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  
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891  
 13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891  
 14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891  
 15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891

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1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44891  
 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891  
 3; -872.8; 01-OCT-2010 05:33:16; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44891  
 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  
 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892  
 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892  
 14; 2951.2; 01-OCT-2010 06:37:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44892  
 15; 3031.7; 01-OCT-2010 06:38:20; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44892

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1; -1434.7; 01-OCT-2010 07:04:30; Bright; 59.5; 17; 78Bet Gem ; 1.16; 4500;occ; 119; 0;44892  
 2; -449.0; 01-OCT-2010 07:20:56; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44892  
 3; -199.5; 01-OCT-2010 07:25:05; Dark ; 54.5; 37; 25Del CMA ; 1.83; 5900;occ; 109; 0;44892  
 4; -41.2; 01-OCT-2010 07:27:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44892  
 5; 171.4; 01-OCT-2010 07:31:16; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;44893  
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5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
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14; 6966.0; 02-OCT-2010 17:15:53; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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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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 9; 5863.2; 02-OCT-2010 18:38:06; Dark ; 65.5; 37; 25Del CMA ; 1.83; 5900;occ; 131; 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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 13; 6374.6; 02-OCT-2010 18:46:37; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44913  
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 4; 2428.9; 02-OCT-2010 19:21:28; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44914  
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 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  
 10; 2427.8; 03-OCT-2010 02:03:50; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;44918  
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 13; 3021.8; 03-OCT-2010 02:13:44; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44918  
 14; 5608.8; 03-OCT-2010 02:56:51; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44918  
 15; 5869.8; 03-OCT-2010 03:01:12; Dark ; 59.0; 37; 25Del CMA ; 1.83; 5900;occ; 118; 0;44918  
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 18; 6226.9; 03-OCT-2010 03:07:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44918  
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 21; 7596.9; 03-OCT-2010 03:29:59; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44918  
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 23; 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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9; 6014.3; 03-OCT-2010 03:03:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44918
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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
7; 6227.7; 03-OCT-2010 04:47:46; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;44919
8; 6383.6; 03-OCT-2010 04:50:22; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44919
9; 6971.1; 03-OCT-2010 05:00:09; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44919
10; 7597.3; 03-OCT-2010 05:10:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44919
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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4; 108.2; 03-OCT-2010 06:26:58; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;44921
5; 192.5; 03-OCT-2010 06:28:23; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;44921
6; 349.1; 03-OCT-2010 06:30:59; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44921
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8; 1561.3; 03-OCT-2010 06:51:12; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;44921
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3; 2178.4; 03-OCT-2010 20:26:16; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44929
4; 2425.3; 03-OCT-2010 20:30:23; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44929
5; 2636.1; 03-OCT-2010 20:33:54; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;44929
6; 2942.3; 03-OCT-2010 20:39:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44929
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13; 3017.0; 04-OCT-2010 00:01:26; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44931
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3; 2417.2; 06-OCT-2010 13:53:35; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44968
4; 2613.2; 06-OCT-2010 13:56:51; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;44968
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7; 3198.1; 06-OCT-2010 14:06:36; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;44968
8; 4603.1; 06-OCT-2010 14:30:01; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;44968
9; 5194.7; 06-OCT-2010 14:39:53; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;44968
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13; 6226.2; 06-OCT-2010 14:57:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44968
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7; 3196.4; 06-OCT-2010 17:27:46; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;44970
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3; 2606.6; 07-OCT-2010 10:03:56; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;44980
4; 2760.3; 07-OCT-2010 10:06:29; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;44980
5; 2915.7; 07-OCT-2010 10:09:05; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;44980
6; 3000.5; 07-OCT-2010 10:10:30; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44980
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3; 2606.0; 07-OCT-2010 11:44:31; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;44981
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3; 2605.6; 07-OCT-2010 13:25:07; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;44982
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5; 2915.1; 07-OCT-2010 13:30:16; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;44982
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7; 3185.4; 07-OCT-2010 13:34:46; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;44982
8; 5668.8; 07-OCT-2010 14:16:10; Dark ; 48.0; 132; 15Rho Pup ; 2.80; 6900;occ; 96; 0;44982
9; 5881.5; 07-OCT-2010 14:19:42; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;44982
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4; 2757.4; 07-OCT-2010 15:08:14; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;44983
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6; 2994.4; 08-OCT-2010 19:42:22; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;45000
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 2; 2369.2; 13-OCT-2010 18:34:26; Bright; 47.5; 105; 6Bet Ari ; 2.64; 8900;occ; 95; 0;45071
 3; 2565.9; 13-OCT-2010 18:37:43; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;45071
 4; 2677.6; 13-OCT-2010 18:39:35; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;45071
 5; 2785.9; 13-OCT-2010 18:41:23; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45071
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 9; 5252.2; 13-OCT-2010 19:22:29; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;45071
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11; 5956.6; 13-OCT-2010 19:34:14; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;45071
12; 6140.1; 13-OCT-2010 19:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45071
13; 6266.2; 13-OCT-2010 19:39:23; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;45071
14; 6347.7; 13-OCT-2010 19:40:45; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;45071
15; 6613.8; 13-OCT-2010 19:45:11; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;45071
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 4; 106.8; 14-OCT-2010 00:39:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45075
 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
 6; 314.1; 14-OCT-2010 00:42:35; Dark ; 54.5; 2; Alp Car ; -0.74; 7000;occ; 109; 0;45075
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11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
12; 2783.3; 14-OCT-2010 01:23:44; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;45075
13; 2974.0; 14-OCT-2010 01:26:55; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;45075
14; 3105.2; 14-OCT-2010 01:29:06; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45075
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 7; 583.6; 14-OCT-2010 02:27:40; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45076  
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 9; 2366.0; 14-OCT-2010 02:57:22; Bright; 49.5; 105; 6Bet Ari ; 2.64; 8900;occ; 99; 0;45076  
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 12; 2782.7; 14-OCT-2010 03:04:19; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45076  
 13; 2973.9; 14-OCT-2010 03:07:30; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;45076  
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 4; -74.8; 14-OCT-2010 03:57:18; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;45076  
 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077  
 6; 234.2; 14-OCT-2010 04:02:27; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;45077  
 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077  
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077  
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077  
 10; 2365.7; 14-OCT-2010 04:37:58; Bright; 49.0; 105; 6Bet Ari ; 2.64; 8900;occ; 98; 0;45077  
 11; 2564.0; 14-OCT-2010 04:41:16; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;45077  
 12; 2673.0; 14-OCT-2010 04:43:05; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45077  
 13; 2782.3; 14-OCT-2010 04:44:55; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45077  
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078  
 6; 235.2; 14-OCT-2010 05:43:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45078  
 7; 316.7; 14-OCT-2010 05:44:25; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45078  
 8; 586.4; 14-OCT-2010 05:48:55; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45078  
 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;45078  
 10; 2364.9; 14-OCT-2010 06:18:33; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45078  
 11; 2563.4; 14-OCT-2010 06:21:52; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;45078  
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 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078  
 14; 2973.4; 14-OCT-2010 06:28:42; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45078  
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 2; 2359.5; 14-OCT-2010 21:23:51; Bright; 48.0; 105; 6Bet Ari ; 2.64; 8900;occ; 96; 0;45087  
 3; 2560.3; 14-OCT-2010 21:27:12; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45087  
 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087  
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087  
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 7; 3095.8; 14-OCT-2010 21:36:08; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;45087  
 8; 4630.0; 14-OCT-2010 22:01:42; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;45087  
 9; 4824.7; 14-OCT-2010 22:04:56; Bright; 39.0; 22; 32Alp Leo ; 1.36; 15200;occ; 78; 0;45087  
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 3; -10.9; 15-OCT-2010 00:05:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45088  
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 5; 244.2; 15-OCT-2010 00:09:48; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45089  
 6; 325.5; 15-OCT-2010 00:11:09; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45089  
 7; 602.3; 15-OCT-2010 00:15:46; Dark ; 25.0; 108; Alp Col ; 2.65; 15200;occ; 50; 0;45089  
 8; 1037.2; 15-OCT-2010 00:23:01; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;45089  
 9; 2358.4; 15-OCT-2010 00:45:02; Bright; 46.5; 105; 6Bet Ari ; 2.64; 8900;occ; 93; 0;45089



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10; 2559.3; 15-OCT-2010 00:48:23; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;45089
11; 2663.8; 15-OCT-2010 00:50:07; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45089
12; 2774.0; 15-OCT-2010 00:51:57; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45089
13; 2970.5; 15-OCT-2010 00:55:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;45089
14; 3094.1; 15-OCT-2010 00:57:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45089
15; 4630.4; 15-OCT-2010 01:22:54; Bright; 55.5; 166; 17Eps Leo ; 2.98; 6000;occ; 111; 0;45089
16; 4825.3; 15-OCT-2010 01:26:09; Bright; 56.5; 22; 32Alp Leo ; 1.36; 15200;occ; 113; 0;45089
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 5; 80.1; 14-OCT-2010 07:21:04; Dark ; 65.0; 37; 25Del CMa ; 1.83; 5900;occ; 130; 0;45079
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 4; 589.4; 14-OCT-2010 09:10:10; Dark ; 28.0; 108; Alp Col ; 2.65; 15200;occ; 56; 0;45080
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 5; 2973.0; 14-OCT-2010 09:49:53; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;45080
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 7; 4628.2; 14-OCT-2010 10:17:29; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;45080
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10; 5778.3; 14-OCT-2010 10:36:39; Dark ; 52.5; 132; 15Rho Pup ; 2.80; 6900;occ; 105; 0;45080
11; 6019.3; 14-OCT-2010 10:40:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;45080
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13; 6273.6; 14-OCT-2010 10:44:54; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;45080
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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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 3; 2532.8; 21-OCT-2010 17:45:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;45185
 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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