

# GOMOS Daily Report 28-JUN-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	01JUL2010 04:49:32
Data source version	GOMOS/5.01
Start time of products	28JUN2010 00:02:12
Stop time of products	28JUN2010 23:42:10
Store outputs in DB	Yes
Nb of level 1b prods	107
Nb of prods with errors	0

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

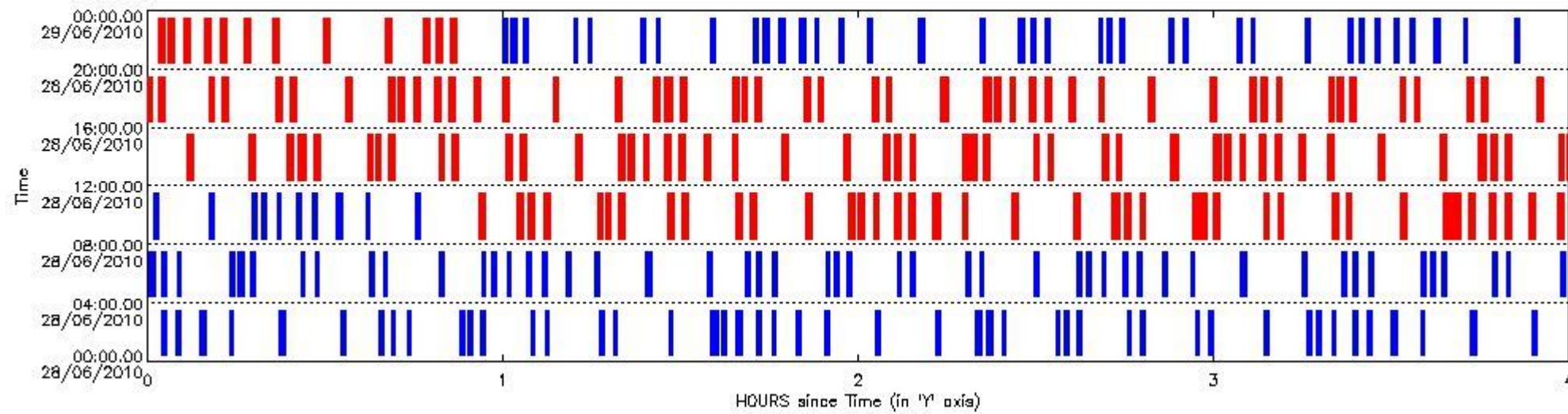
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
28-JUN-2010 08:55:45	AlpPhe	84	43534
28-JUN-2010 09:02:15	BetGru	63	43534
28-JUN-2010 09:04:14	AlpGru	31	43534
28-JUN-2010 09:06:53	AlpPav	45	43534
28-JUN-2010 09:15:51	20EpsSgr	38	43534
28-JUN-2010 09:17:14	19DelSgr	116	43534
28-JUN-2010 09:19:21	41PiSgr	155	43534
28-JUN-2010 09:27:51	60BetOph	126	43534
28-JUN-2010 09:30:13	55AlpOph	59	43534
28-JUN-2010 09:39:21	3AlpLyr	5	43534
28-JUN-2010 09:41:44	23BetDra	130	43534
28-JUN-2010 09:51:00	5AlpCep	89	43534
28-JUN-2010 09:58:14	11BetCas	74	43534
28-JUN-2010 09:59:52	18AlpCas	68	43534
28-JUN-2010 10:02:32	23GamPer	160	43534

28-JUN-2010 10:05:57	57Gam1And	73	43534
28-JUN-2010 10:08:30	4BetTri	173	43534
28-JUN-2010 10:12:35	13AlpAri	50	43534
28-JUN-2010 10:17:29	92AlpCet	94	43534
28-JUN-2010 10:25:57	DSA1066	0	43534
28-JUN-2010 10:36:21	AlpPhe	84	43535
28-JUN-2010 10:42:52	BetGru	63	43535
28-JUN-2010 10:44:51	AlpGru	31	43535
28-JUN-2010 10:47:30	AlpPav	45	43535
28-JUN-2010 10:56:27	20EpsSgr	38	43535
28-JUN-2010 10:57:50	19DelSgr	116	43535
28-JUN-2010 10:59:57	41PiSgr	155	43535
28-JUN-2010 11:08:27	60BetOph	126	43535
28-JUN-2010 11:10:49	55AlpOph	59	43535
28-JUN-2010 11:19:56	3AlpLyr	5	43535
28-JUN-2010 11:22:20	23BetDra	130	43535
28-JUN-2010 11:31:35	5AlpCep	89	43535
28-JUN-2010 11:38:49	11BetCas	74	43535
28-JUN-2010 11:40:28	18AlpCas	68	43535
28-JUN-2010 11:43:08	23GamPer	160	43535
28-JUN-2010 11:46:33	57Gam1And	73	43535
28-JUN-2010 11:49:06	4BetTri	173	43535
28-JUN-2010 11:53:11	13AlpAri	50	43535
28-JUN-2010 11:58:06	92AlpCet	94	43535
28-JUN-2010 12:06:34	DSA1066	0	43535
28-JUN-2010 12:16:58	AlpPhe	84	43536
28-JUN-2010 12:23:29	BetGru	63	43536
28-JUN-2010 12:25:27	AlpGru	31	43536
28-JUN-2010 12:28:06	AlpPav	45	43536
28-JUN-2010 12:37:03	20EpsSgr	38	43536
28-JUN-2010 12:38:26	19DelSgr	116	43536
28-JUN-2010 12:40:33	41PiSgr	155	43536
28-JUN-2010 12:49:03	60BetOph	126	43536
28-JUN-2010 12:51:24	55AlpOph	59	43536
28-JUN-2010 13:00:32	3AlpLyr	5	43536
28-JUN-2010 13:02:56	23BetDra	130	43536
28-JUN-2010 13:12:10	5AlpCep	89	43536
28-JUN-2010 13:19:25	11BetCas	74	43536
28-JUN-2010 13:21:03	18AlpCas	68	43536
28-JUN-2010 13:23:44	23GamPer	160	43536
28-JUN-2010 13:27:09	57Gam1And	73	43536
28-JUN-2010 13:29:42	4BetTri	173	43536
28-JUN-2010 13:33:47	13AlpAri	50	43536
28-JUN-2010 13:38:42	92AlpCet	94	43536
28-JUN-2010 13:47:10	DSA1066	0	43536
28-JUN-2010 13:57:35	AlpPhe	84	43537
28-JUN-2010 14:04:05	BetGru	63	43537
28-JUN-2010 14:06:04	AlpGru	31	43537
28-JUN-2010 14:08:42	AlpPav	45	43537
28-JUN-2010 14:17:40	20EpsSgr	38	43537
28-JUN-2010 14:19:02	19DelSgr	116	43537
28-JUN-2010 14:21:09	41PiSgr	155	43537
28-JUN-2010 14:29:39	60BetOph	126	43537
28-JUN-2010 14:32:00	55AlpOph	59	43537
28-JUN-2010 14:41:07	3AlpLyr	5	43537
28-JUN-2010 14:43:31	23BetDra	130	43537
28-JUN-2010 14:52:45	5AlpCep	89	43537
28-JUN-2010 15:00:00	11BetCas	74	43537
28-JUN-2010 15:01:39	18AlpCas	68	43537

28-JUN-2010 15:04:20	23GamPer	160	43537
28-JUN-2010 15:07:45	57Gam1And	73	43537
28-JUN-2010 15:10:18	4BetTri	173	43537
28-JUN-2010 15:14:24	13AlpAri	50	43537
28-JUN-2010 15:19:18	92AlpCet	94	43537
28-JUN-2010 15:27:47	DSA1066	0	43537
28-JUN-2010 15:38:12	AlpPhe	84	43538
28-JUN-2010 15:44:42	BetGru	63	43538
28-JUN-2010 15:46:41	AlpGru	31	43538
28-JUN-2010 15:49:19	AlpPav	45	43538
28-JUN-2010 15:58:16	20EpsSgr	38	43538
28-JUN-2010 15:59:39	19DelSgr	116	43538
28-JUN-2010 16:01:45	41PiSgr	155	43538
28-JUN-2010 16:10:15	60BetOph	126	43538
28-JUN-2010 16:12:36	55AlpOph	59	43538
28-JUN-2010 16:21:43	3AlpLyr	5	43538
28-JUN-2010 16:24:07	23BetDra	130	43538
28-JUN-2010 16:33:21	5AlpCep	89	43538
28-JUN-2010 16:40:36	11BetCas	74	43538
28-JUN-2010 16:42:14	18AlpCas	68	43538
28-JUN-2010 16:44:56	23GamPer	160	43538
28-JUN-2010 16:48:20	57Gam1And	73	43538
28-JUN-2010 16:50:54	4BetTri	173	43538
28-JUN-2010 16:55:00	13AlpAri	50	43538
28-JUN-2010 16:59:55	92AlpCet	94	43538
28-JUN-2010 17:08:24	DSA1066	0	43538
28-JUN-2010 17:18:49	AlpPhe	84	43539
28-JUN-2010 17:25:19	BetGru	63	43539
28-JUN-2010 17:27:18	AlpGru	31	43539
28-JUN-2010 17:29:55	AlpPav	45	43539
28-JUN-2010 17:38:52	20EpsSgr	38	43539
28-JUN-2010 17:40:15	19DelSgr	116	43539
28-JUN-2010 17:42:22	41PiSgr	155	43539
28-JUN-2010 17:50:51	60BetOph	126	43539
28-JUN-2010 17:53:12	55AlpOph	59	43539
28-JUN-2010 18:02:18	3AlpLyr	5	43539
28-JUN-2010 18:04:43	23BetDra	130	43539
28-JUN-2010 18:13:56	5AlpCep	89	43539
28-JUN-2010 18:21:11	11BetCas	74	43539
28-JUN-2010 18:22:50	18AlpCas	68	43539
28-JUN-2010 18:25:32	23GamPer	160	43539
28-JUN-2010 18:28:56	57Gam1And	73	43539
28-JUN-2010 18:31:30	4BetTri	173	43539
28-JUN-2010 18:35:36	13AlpAri	50	43539
28-JUN-2010 18:40:31	92AlpCet	94	43539
28-JUN-2010 18:49:01	DSA1066	0	43539
28-JUN-2010 18:59:26	AlpPhe	84	43540
28-JUN-2010 19:05:56	BetGru	63	43540
28-JUN-2010 19:07:55	AlpGru	31	43540
28-JUN-2010 19:10:32	AlpPav	45	43540
28-JUN-2010 19:19:28	20EpsSgr	38	43540
28-JUN-2010 19:20:51	19DelSgr	116	43540
28-JUN-2010 19:22:58	41PiSgr	155	43540
28-JUN-2010 19:31:27	60BetOph	126	43540
28-JUN-2010 19:33:48	55AlpOph	59	43540
28-JUN-2010 19:42:53	3AlpLyr	5	43540
28-JUN-2010 19:45:19	23BetDra	130	43540
28-JUN-2010 19:54:31	5AlpCep	89	43540
28-JUN-2010 20:01:46	11BetCas	74	43540

28-JUN-2010 20:03:25	18AlpCas	68	43540
28-JUN-2010 20:06:08	23GamPer	160	43540
28-JUN-2010 20:09:32	57Gam1And	73	43540
28-JUN-2010 20:12:06	4BetTri	173	43540
28-JUN-2010 20:16:12	13AlpAri	50	43540
28-JUN-2010 20:21:07	92AlpCet	94	43540
28-JUN-2010 20:29:37	DSA1066	0	43540
28-JUN-2010 20:40:03	AlpPhe	84	43541
28-JUN-2010 20:46:33	BetGru	63	43541
28-JUN-2010 20:48:32	AlpGru	31	43541
28-JUN-2010 20:51:08	AlpPav	45	43541

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

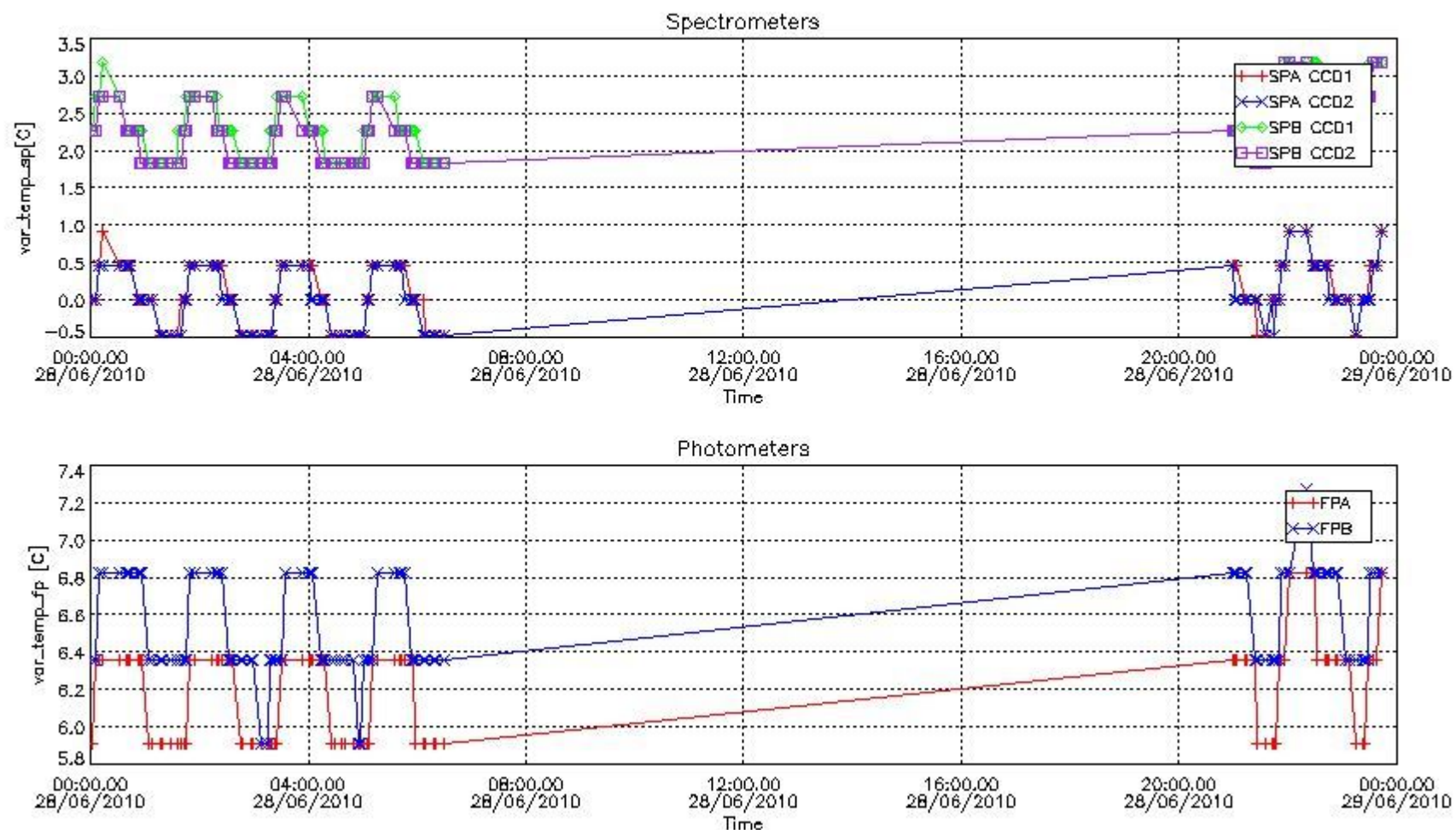
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100628_000212_000000502090_00388_43528_2591.N1	28-JUN-2010 00:02:12	Bright	50.000	73	57Gam1And	2.2600	13100.	100	43528	No
2	GOM_TRA_1PNPDE20100628_000444_000000472090_00388_43528_2592.N1	28-JUN-2010 00:04:44	Twilight	46.500	173	4Bet Tri	3.0040	8900.0	93	43528	No
3	GOM_TRA_1PNPDE20100628_000848_000000582090_00388_43528_2593.N1	28-JUN-2010 00:08:48	Dark	57.500	50	13Alp Ari	2.0070	4250.0	115	43528	No
4	GOM_TRA_1PNPDE20100628_001342_000000442090_00388_43528_2594.N1	28-JUN-2010 00:13:42	Dark	43.500	94	92Alp Cet	2.5260	3100.0	87	43528	No
5	GOM_TRA_1PNPDE20100628_003230_000000572090_00389_43529_2603.N1	28-JUN-2010 00:32:30	Dark	57.000	84	Alp Phe	2.3970	4500.0	114	43529	No
6	GOM_TRA_1PNPDE20100628_003901_000000522090_00389_43529_2604.N1	28-JUN-2010 00:39:01	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	43529	No
7	GOM_TRA_1PNPDE20100628_004100_000000492090_00389_43529_2605.N1	28-JUN-2010 00:41:00	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43529	No
8	GOM_TRA_1PNPDE20100628_004342_000000452090_00389_43529_2606.N1	28-JUN-2010 00:43:42	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	43529	No
9	GOM_TRA_1PNPDE20100628_005240_000000432090_00389_43529_2607.N1	28-JUN-2010 00:52:40	Twilight	43.000	38	20Eps Sgr	1.8360	11000.	86	43529	No
10	GOM_TRA_1PNPDE20100628_005403_000000482090_00389_43529_2608.N1	28-JUN-2010 00:54:03	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	43529	No
11	GOM_TRA_1PNPDE20100628_005611_000000482090_00389_43529_2609.N1	28-JUN-2010 00:56:11	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43529	No
12	GOM_TRA_1PNPDE20100628_010443_000000392090_00389_43529_2610.N1	28-JUN-2010 01:04:43	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	43529	No
13	GOM_TRA_1PNPDE20100628_010704_000000412090_00389_43529_2611.N1	28-JUN-2010 01:07:04	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	43529	No
14	GOM_TRA_1PNPDE20100628_011615_000000472090_00389_43529_2612.N1	28-JUN-2010 01:16:15	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	43529	No
15	GOM_TRA_1PNPDE20100628_011836_000000372090_00389_43529_2613.N1	28-JUN-2010 01:18:36	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	43529	No
16	GOM_TRA_1PNPDE20100628_012754_000000462090_00389_43529_2614.N1	28-JUN-2010 01:27:54	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	43529	No
17	GOM_TRA_1PNPDE20100628_013507_000000692090_00389_43529_2615.N1	28-JUN-2010 01:35:07	Bright	69.000	74	11Bet Cas	2.2680	6600.0	138	43529	No
18	GOM_TRA_1PNPDE20100628_013645_000000482090_00389_43529_2616.N1	28-JUN-2010 01:36:45	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	43529	No
19	GOM_TRA_1PNPDE20100628_013923_000000552090_00389_43529_2617.N1	28-JUN-2010 01:39:23	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43529	No
20	GOM_TRA_1PNPDE20100628_014248_000000482090_00389_43529_2618.N1	28-JUN-2010 01:42:48	Bright	48.000	73	57Gam1And	2.2600	13100.	96	43529	No
21	GOM_TRA_1PNPDE20100628_014520_000000462090_00389_43529_2619.N1	28-JUN-2010 01:45:20	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	43529	No
22	GOM_TRA_1PNPDE20100628_014924_000000542090_00389_43529_2620.N1	28-JUN-2010 01:49:24	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	43529	No
23	GOM_TRA_1PNPDE20100628_015418_000000412090_00389_43529_2621.N1	28-JUN-2010 01:54:18	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	43529	No
24	GOM_TRA_1PNPDE20100628_021307_000000512090_00390_43530_2630.N1	28-JUN-2010 02:13:07	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43530	No
25	GOM_TRA_1PNPDE20100628_021938_000000672090_00390_43530_2631.N1	28-JUN-2010 02:19:38	Straylight	66.500	63	Bet Gru	2.1500	2800.0	133	43530	No
26	GOM_TRA_1PNPDE20100628_022137_000000622090_00390_43530_2632.N1	28-JUN-2010 02:21:37	Straylight	61.500	31	Alp Gru	1.7340	15200.	123	43530	No
27	GOM_TRA_1PNPDE20100628_022418_000000392090_00390_43530_2633.N1	28-JUN-2010 02:24:18	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	43530	No
28	GOM_TRA_1PNPDE20100628_023317_000000442090_00390_43530_2634.N1	28-JUN-2010 02:33:17	Twilight	44.000	38	20Eps Sgr	1.8360	11000.	88	43530	No
29	GOM_TRA_1PNPDE20100628_023440_000000522090_00390_43530_2635.N1	28-JUN-2010 02:34:40	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	43530	No
30	GOM_TRA_1PNPDE20100628_023647_000000482090_00390_43530_2636.N1	28-JUN-2010 02:36:47	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43530	No
31	GOM_TRA_1PNPDE20100628_024518_000000412090_00390_43530_2637.N1	28-JUN-2010 02:45:18	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	43530	No
32	GOM_TRA_1PNPDE20100628_024740_000000392090_00390_43530_2638.N1	28-JUN-2010 02:47:40	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	43530	No
33	GOM_TRA_1PNPDE20100628_025650_000000442090_00390_43530_2639.N1	28-JUN-2010 02:56:50	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	43530	No
34	GOM_TRA_1PNPDE20100628_025912_000000362090_00390_43530_2640.N1	28-JUN-2010 02:59:12	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	43530	No
35	GOM_TRA_1PNPDE20100628_030829_000000442090_00390_43530_2641.N1	28-JUN-2010 03:08:29	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	43530	No
36	GOM_TRA_1PNPDE20100628_031543_000000492090_00390_43530_2665.N1	28-JUN-2010 03:15:43	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43530	No
37	GOM_TRA_1PNPDE20100628_031720_000000492090_00390_43530_2666.N1	28-JUN-2010 03:17:20	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	43530	No
38	GOM_TRA_1PNPDE20100628_031959_000000352090_00390_43530_2667.N1	28-JUN-2010 03:19:59	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	43530	No
39	GOM_TRA_1PNPDE20100628_032324_000000522090_00390_43530_2668.N1	28-JUN-2010 03:23:24	Bright	52.000	73	57Gam1And	2.2600	13100.	104	43530	No
40	GOM_TRA_1PNPDE20100628_032556_000000492090_00390_43530_2669.N1	28-JUN-2010 03:25:56	Twilight	49.000	173	4Bet Tri	3.0040	8900.0	98	43530	No
41	GOM_TRA_1PNPDE20100628_033001_000000582090_00390_43530_2670.N1	28-JUN-2010 03:30:01	Dark	58.000	50	13Alp Ari	2.0070	4250.0	116	43530	No
42	GOM_TRA_1PNPDE20100628_033454_000000392090_00390_43530_2671.N1	28-JUN-2010 03:34:54	Dark	39.000	94	92Alp Cet	2.5260	3100.0	78	43530	No
43	GOM_TRA_1PNPDE20100628_035344_000000512090_00391_43531_2672.N1	28-JUN-2010 03:53:44	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43531	No



44	GOM_TRA_1PNPDE20100628_040014_000000532090_00391_43531_2673.N1	28-JUN-2010 04:00:14	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	43531	No
45	GOM_TRA_1PNPDE20100628_040214_000000512090_00391_43531_2674.N1	28-JUN-2010 04:02:14	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	43531	No
46	GOM_TRA_1PNPDE20100628_040454_000000432090_00391_43531_2675.N1	28-JUN-2010 04:04:54	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	43531	No
47	GOM_TRA_1PNPDE20100628_041353_000000452090_00391_43531_2676.N1	28-JUN-2010 04:13:53	Twilight_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	43531	No
48	GOM_TRA_1PNPDE20100628_041516_000000512090_00391_43531_2677.N1	28-JUN-2010 04:15:16	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	43531	No
49	GOM_TRA_1PNPDE20100628_041723_000000492090_00391_43531_2678.N1	28-JUN-2010 04:17:23	Bright	48.500	155	41Pi Sgr	2.9000	6600.0	97	43531	No
50	GOM_TRA_1PNPDE20100628_042555_000000382090_00391_43531_2679.N1	28-JUN-2010 04:25:55	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	43531	No
51	GOM_TRA_1PNPDE20100628_042816_000000382090_00391_43531_2680.N1	28-JUN-2010 04:28:16	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	43531	No
52	GOM_TRA_1PNPDE20100628_043726_000000472090_00391_43531_2681.N1	28-JUN-2010 04:37:26	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	43531	No
53	GOM_TRA_1PNPDE20100628_043948_000000382090_00391_43531_2682.N1	28-JUN-2010 04:39:48	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	43531	No
54	GOM_TRA_1PNPDE20100628_044905_000000472090_00391_43531_2683.N1	28-JUN-2010 04:49:05	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43531	No
55	GOM_TRA_1PNPDE20100628_045618_000000462090_00391_43531_2690.N1	28-JUN-2010 04:56:18	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	43531	No
56	GOM_TRA_1PNPDE20100628_045756_000000472090_00391_43531_2691.N1	28-JUN-2010 04:57:56	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	43531	No
57	GOM_TRA_1PNPDE20100628_050035_000000362090_00391_43531_2692.N1	28-JUN-2010 05:00:35	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	43531	No
58	GOM_TRA_1PNPDE20100628_050400_000000452090_00391_43531_2693.N1	28-JUN-2010 05:04:00	Bright	45.000	73	57Gam1And	2.2600	13100.	90	43531	No
59	GOM_TRA_1PNPDE20100628_050632_000000482090_00391_43531_2694.N1	28-JUN-2010 05:06:32	Twilight_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	43531	No
60	GOM_TRA_1PNPDE20100628_051037_000000562090_00391_43531_2695.N1	28-JUN-2010 05:10:37	Dark	55.500	50	13Alp Ari	2.0070	4250.0	111	43531	No
61	GOM_TRA_1PNPDE20100628_051531_000000392090_00391_43531_2696.N1	28-JUN-2010 05:15:31	Dark	39.000	94	92Alp Cet	2.5260	3100.0	78	43531	No
62	GOM_TRA_1PNPDE20100628_053421_000000482090_00392_43532_2697.N1	28-JUN-2010 05:34:21	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	43532	No
63	GOM_TRA_1PNPDE20100628_054052_000000512090_00392_43532_2698.N1	28-JUN-2010 05:40:52	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	43532	No
64	GOM_TRA_1PNPDE20100628_054251_000000502090_00392_43532_2699.N1	28-JUN-2010 05:42:51	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	43532	No
65	GOM_TRA_1PNPDE20100628_054531_000000412090_00392_43532_2700.N1	28-JUN-2010 05:45:31	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	43532	No
66	GOM_TRA_1PNPDE20100628_055429_000000432090_00392_43532_2701.N1	28-JUN-2010 05:54:29	Twilight_and_stray	42.500	38	20Eps Sgr	1.8360	11000.	85	43532	No
67	GOM_TRA_1PNPDE20100628_055552_000000522090_00392_43532_2702.N1	28-JUN-2010 05:55:52	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	43532	No
68	GOM_TRA_1PNPDE20100628_055759_000000482090_00392_43532_2703.N1	28-JUN-2010 05:57:59	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	43532	No
69	GOM_TRA_1PNPDE20100628_060631_000000382090_00392_43532_2704.N1	28-JUN-2010 06:06:31	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	43532	No
70	GOM_TRA_1PNPDE20100628_060852_000000392090_00392_43532_2705.N1	28-JUN-2010 06:08:52	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	43532	No
71	GOM_TRA_1PNPDE20100628_061801_000000482090_00392_43532_2706.N1	28-JUN-2010 06:18:01	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	43532	No
72	GOM_TRA_1PNPDE20100628_062024_000000382090_00392_43532_2707.N1	28-JUN-2010 06:20:24	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	43532	No
73	GOM_TRA_1PNPDE20100628_062940_000000472090_00392_43532_2708.N1	28-JUN-2010 06:29:40	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43532	No
74	GOM_TRA_1PNPDE20100628_205955_000000442090_00401_43541_2823.N1	28-JUN-2010 20:59:55	Twilight_and_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	43541	No
75	GOM_TRA_1PNPDE20100628_210118_000000552090_00401_43541_2824.N1	28-JUN-2010 21:01:18	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	43541	No
76	GOM_TRA_1PNPDE20100628_210324_000000482090_00401_43541_2825.N1	28-JUN-2010 21:03:24	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	43541	No
77	GOM_TRA_1PNPDE20100628_211153_000000392090_00401_43541_2826.N1	28-JUN-2010 21:11:53	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	43541	No
78	GOM_TRA_1PNPDE20100628_211415_000000372090_00401_43541_2827.N1	28-JUN-2010 21:14:15	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	43541	No
79	GOM_TRA_1PNPDE20100628_212320_000000472090_00401_43541_2828.N1	28-JUN-2010 21:23:20	Bright	46.500	5	3Alp Lyr	0.033000	11000.	93	43541	No
80	GOM_TRA_1PNPDE20100628_212545_000000402090_00401_43541_2829.N1	28-JUN-2010 21:25:45	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43541	No
81	GOM_TRA_1PNPDE20100628_213457_000000482090_00401_43541_2830.N1	28-JUN-2010 21:34:57	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43541	No
82	GOM_TRA_1PNPDE20100628_214213_000000502090_00401_43541_2831.N1	28-JUN-2010 21:42:13	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	43541	No
83	GOM_TRA_1PNPDE20100628_214352_000000682090_00401_43541_2832.N1	28-JUN-2010 21:43:52	Bright	68.000	68	18Alp Cas	2.2250	4500.0	136	43541	No
84	GOM_TRA_1PNPDE20100628_214634_000000552090_00401_43541_2833.N1	28-JUN-2010 21:46:34	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43541	No
85	GOM_TRA_1PNPDE20100628_214959_000000582090_00401_43541_2834.N1	28-JUN-2010 21:49:59	Bright	57.500	73	57Gam1And	2.2600	13100.	115	43541	No
86	GOM_TRA_1PNPDE20100628_215233_000000482090_00401_43541_2835.N1	28-JUN-2010 21:52:33	Twilight_and_stray	47.500	173	4Bet Tri	3.0040	8900.0	95	43541	No
87	GOM_TRA_1PNPDE20100628_215639_000000562090_00401_43541_2836.N1	28-JUN-2010 21:56:39	Dark	55.500	50	13Alp Ari	2.0070	4250.0	111	43541	No
88	GOM_TRA_1PNPDE20100628_220134_000000472090_00401_43541_2837.N1	28-JUN-2010 22:01:34	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	43541	No
89	GOM_TRA_1PNPDE20100628_222030_000000502090_00402_43542_2845.N1	28-JUN-2010 22:20:30	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	43542	No
90	GOM_TRA_1PNPDE20100628_222701_000000612090_00402_43542_2846.N1	28-JUN-2010 22:27:01	Straylight	60.500	63	Bet Gru	2.1500	2800.0	121	43542	No
91	GOM_TRA_1PNPDE20100628_222859_000000582090_00402_43542_2847.N1	28-JUN-2010 22:28:59	Straylight	57.500	31	Alp Gru	1.7340	15200.	115	43542	No
92	GOM_TRA_1PNPDE20100628_223135_000000482090_00402_43542_2848.N1	28-JUN-2010 22:31:35	Straylight	47.500	45	Alp Pav	1.9400	26000.	95	43542	No
93	GOM_TRA_1PNPDE20100628_224031_000000442090_00402_43542_2849.N1	28-JUN-2010 22:40:31	Twilight_and_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	43542	No
94	GOM_TRA_1PNPDE20100628_224154_000000552090_00402_43542_2850.N1	28-JUN-2010 22:41:54	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	43542	No
95	GOM_TRA_1PNPDE20100628_224401_000000482090_00402_43542_2851.N1	28-JUN-2010 22:44:01	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43542	No
96	GOM_TRA_1PNPDE20100628_225229_000000392090_00402_43542_2852.N1	28-JUN-2010 22:52:29	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	43542	No
97	GOM_TRA_1PNPDE20100628_225450_000000402090_00402_43542_2853.N1	28-JUN-2010 22:54:50	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	43542	No
98	GOM_TRA_1PNPDE20100628_230355_000000462090_00402_43542_2854.N1	28-JUN-2010 23:03:55	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	43542	No
99	GOM_TRA_1PNPDE20100628_230621_000000402090_00402_43542_2855.N1	28-JUN-2010 23:06:21	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	43542	No
100	GOM_TRA_1PNPDE20100628_231532_000000472090_00402_43542_2856.N1	28-JUN-2010 23:15:32	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	43542	No
101	GOM_TRA_1PNPDE20100628_232248_000000482090_00402_43542_2857.N1	28-JUN-2010 23:22:48	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	43542	No
102	GOM_TRA_1PNPDE20100628_232427_000000512090_00402_43542_2858.N1	28-JUN-2010 23:24:27	Bright	50.500	68	18Alp Cas	2.2250	4500.0	101	43542	No

103	GOM_TRA_1PNPDE20100628_232710_000000552090_00402_43542_2859.N1	28-JUN-2010 23:27:10	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43542	No
104	GOM_TRA_1PNPDE20100628_233035_000000492090_00402_43542_2860.N1	28-JUN-2010 23:30:35	Bright	48.500	73	57Gam1And	2.2600	13100.	97	43542	No
105	GOM_TRA_1PNPDE20100628_233309_000000482090_00402_43542_2861.N1	28-JUN-2010 23:33:09	Twilight_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	43542	No
106	GOM_TRA_1PNPDE20100628_233715_000000542090_00402_43542_2862.N1	28-JUN-2010 23:37:15	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	43542	No
107	GOM_TRA_1PNPDE20100628_234210_000000442090_00402_43542_2863.N1	28-JUN-2010 23:42:10	Dark	44.000	94	92Alp Cet	2.5260	3100.0	88	43542	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.

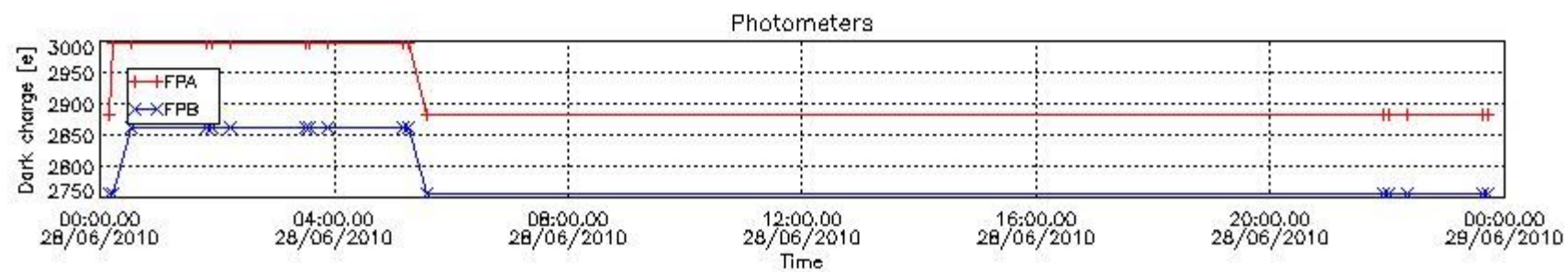
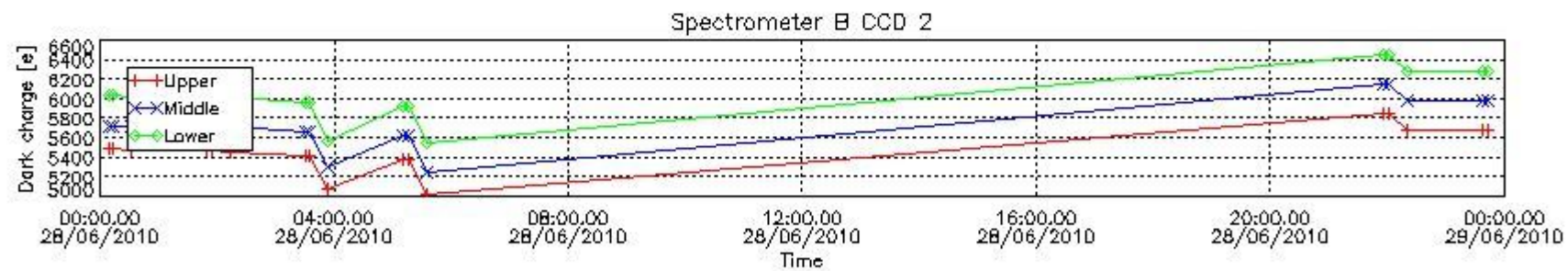
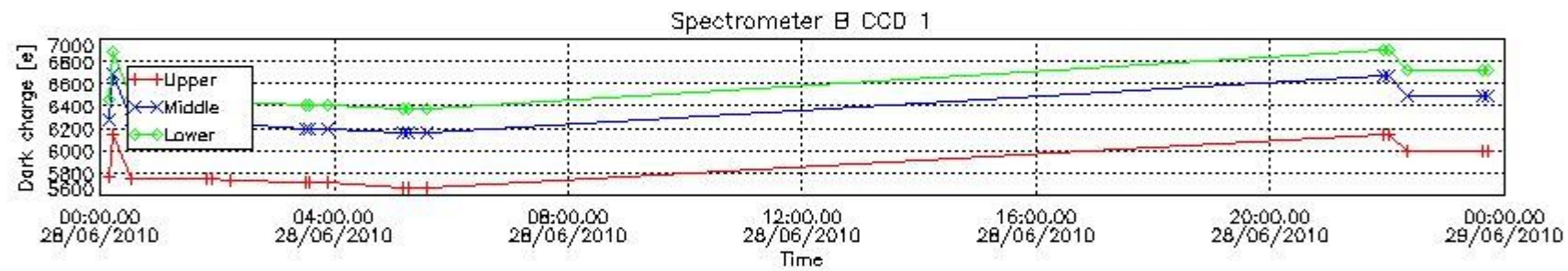
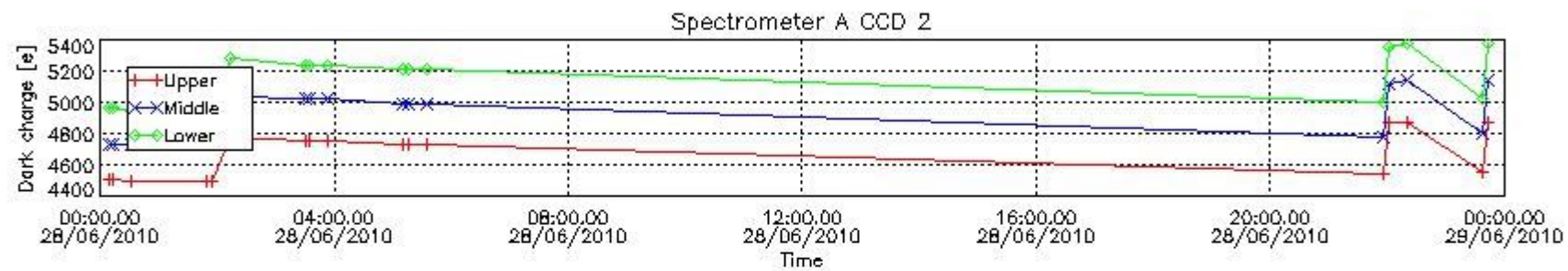
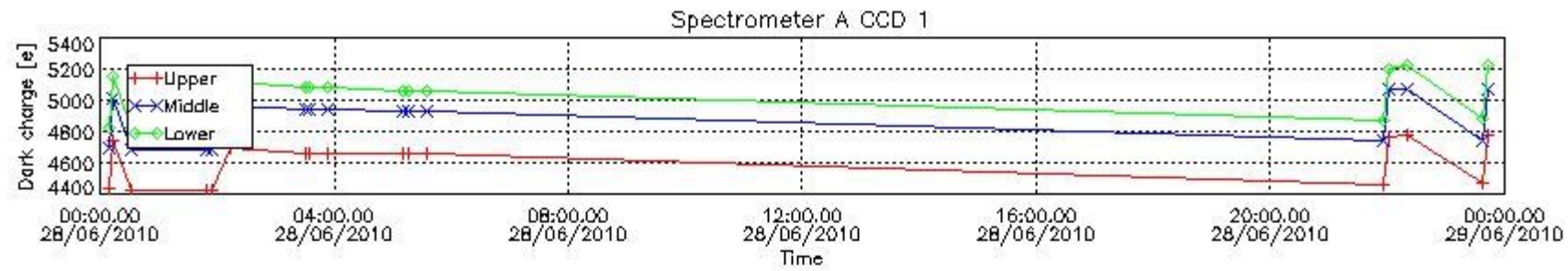
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100628_205955_000000442090_00401_43541_2823.N1	DC map used
GOM_TRA_1PNPDE20100628_210118_000000552090_00401_43541_2824.N1	DC map used
GOM_TRA_1PNPDE20100628_210324_000000482090_00401_43541_2825.N1	DC map used
GOM_TRA_1PNPDE20100628_211153_000000392090_00401_43541_2826.N1	DC map used
GOM_TRA_1PNPDE20100628_211415_000000372090_00401_43541_2827.N1	DC map used

GOM_TRA_1PNPDE20100628_212320_000000472090_00401_43541_2828.N1	DC map used
GOM_TRA_1PNPDE20100628_212545_000000402090_00401_43541_2829.N1	DC map used
GOM_TRA_1PNPDE20100628_213457_000000482090_00401_43541_2830.N1	DC map used
GOM_TRA_1PNPDE20100628_214213_000000502090_00401_43541_2831.N1	DC map used
GOM_TRA_1PNPDE20100628_214352_000000682090_00401_43541_2832.N1	DC map used
GOM_TRA_1PNPDE20100628_214634_000000552090_00401_43541_2833.N1	DC map used
GOM_TRA_1PNPDE20100628_214959_000000582090_00401_43541_2834.N1	DC map used
GOM_TRA_1PNPDE20100628_215233_000000482090_00401_43541_2835.N1	DC map used
GOM_TRA_1PNPDE20100628_215639_000000562090_00401_43541_2836.N1	DC map used
GOM_TRA_1PNPDE20100628_220134_000000472090_00401_43541_2837.N1	DC map used

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





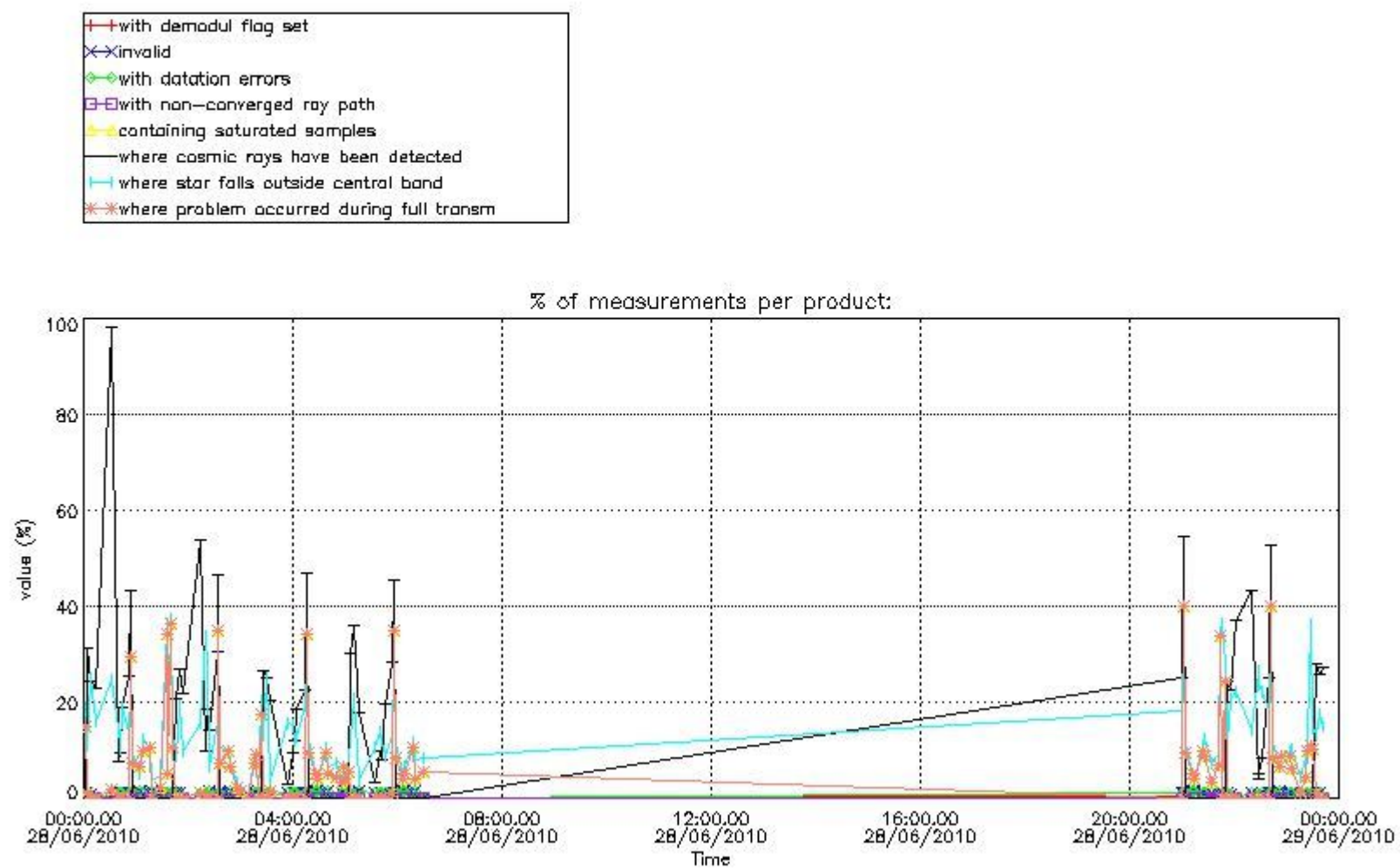
## 5. Demodulation flag and quality information monitoring

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:

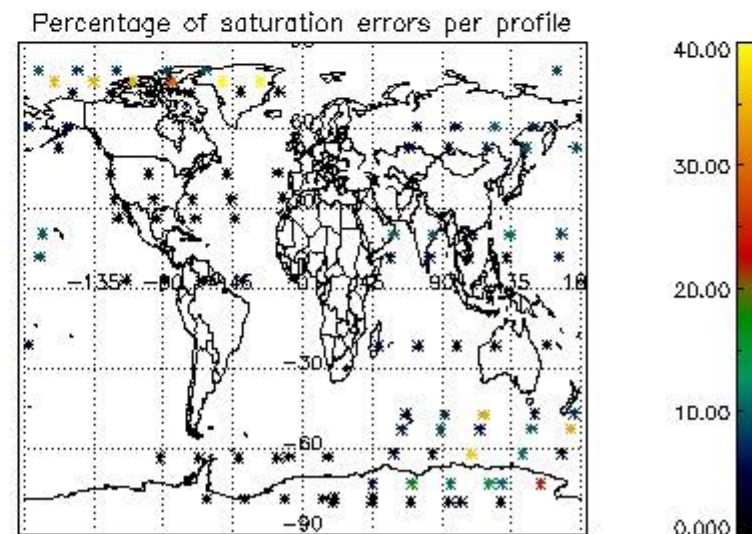
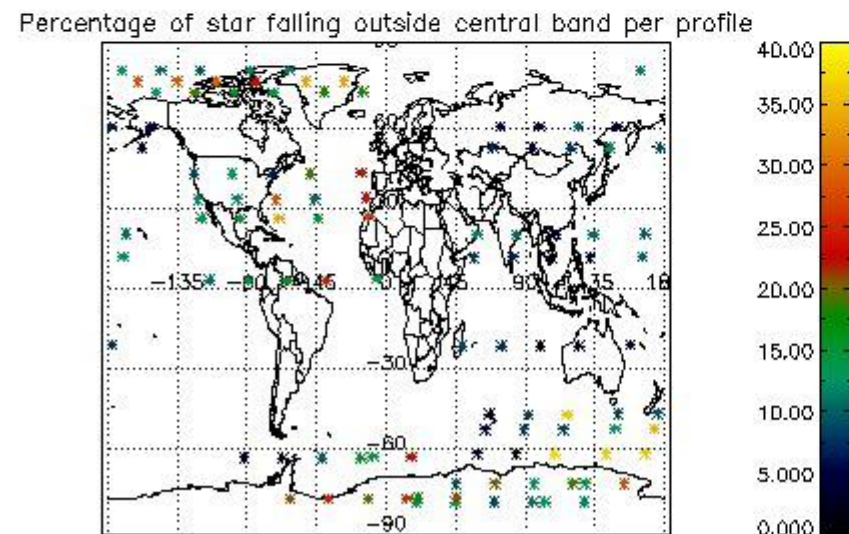
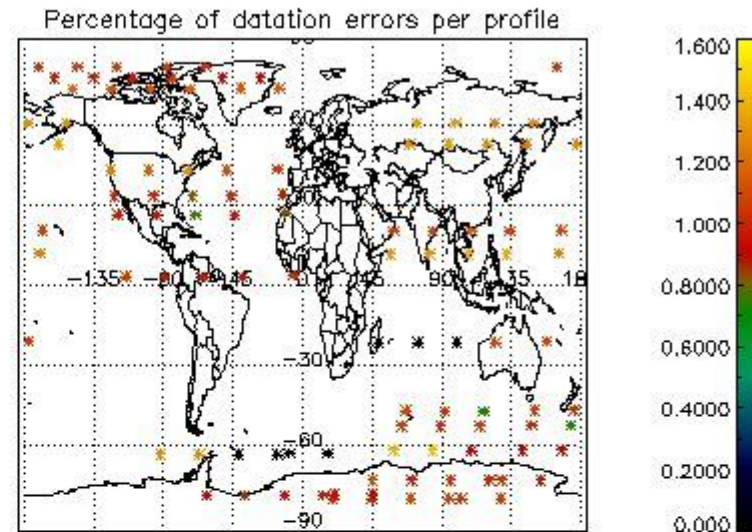
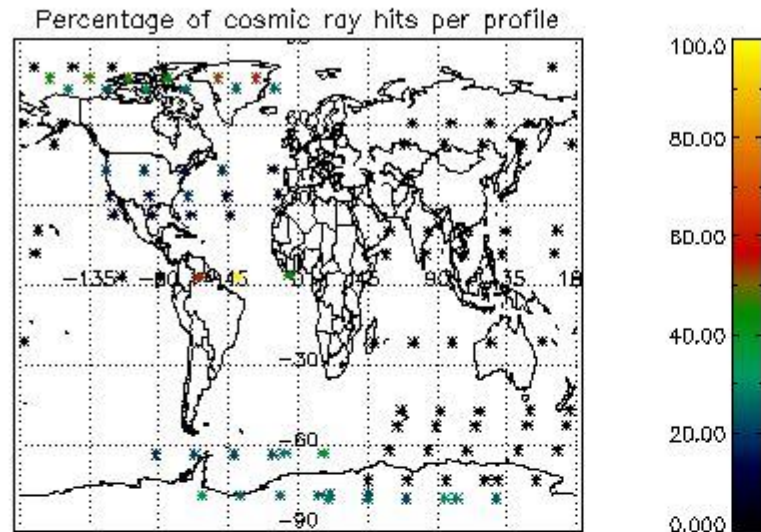
At least one measurement with demodulation flag set:	39.2523 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





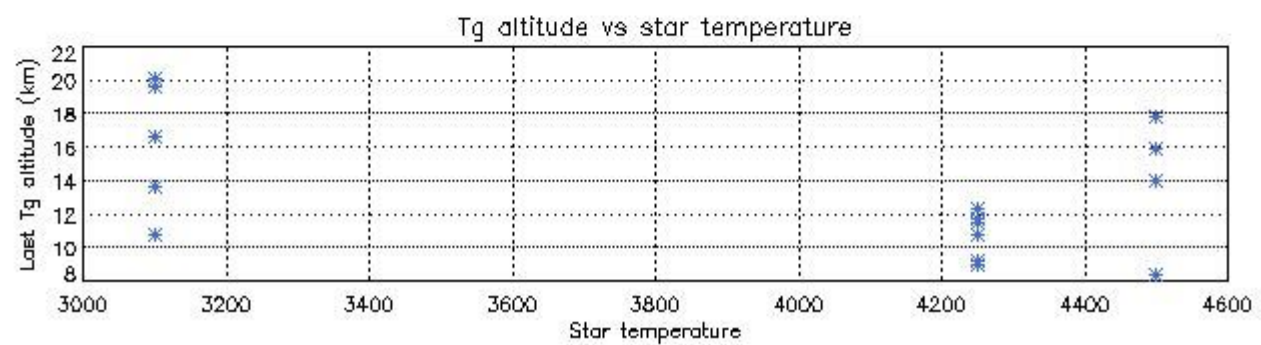
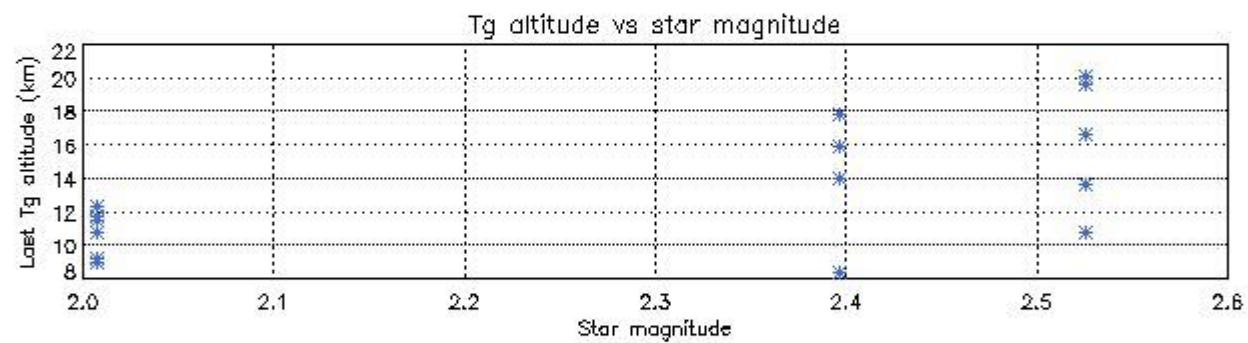
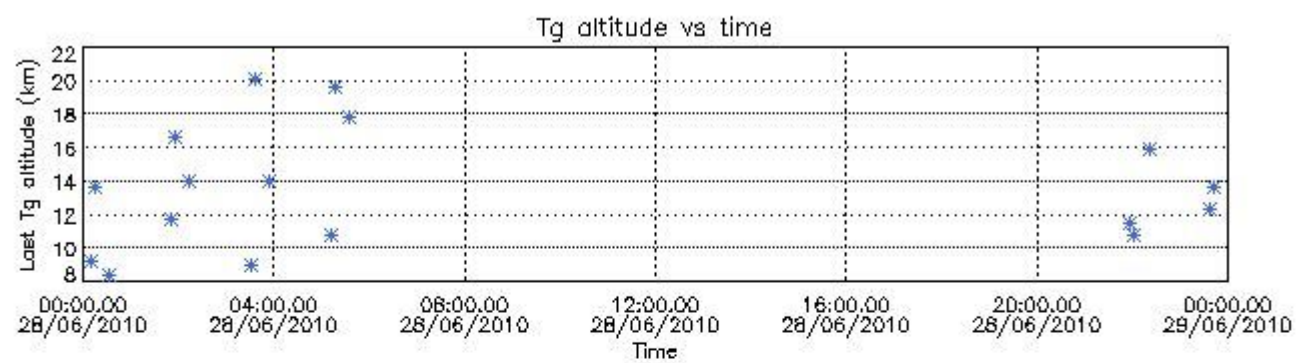
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.461	16.990	NaN
St. deviation:	3.5772	6.2424	NaN
Maximum:	20.115	27.976	NaN
Minimum:	8.3122	3.8464	NaN
Number of data:	17.000	63.000	NaN

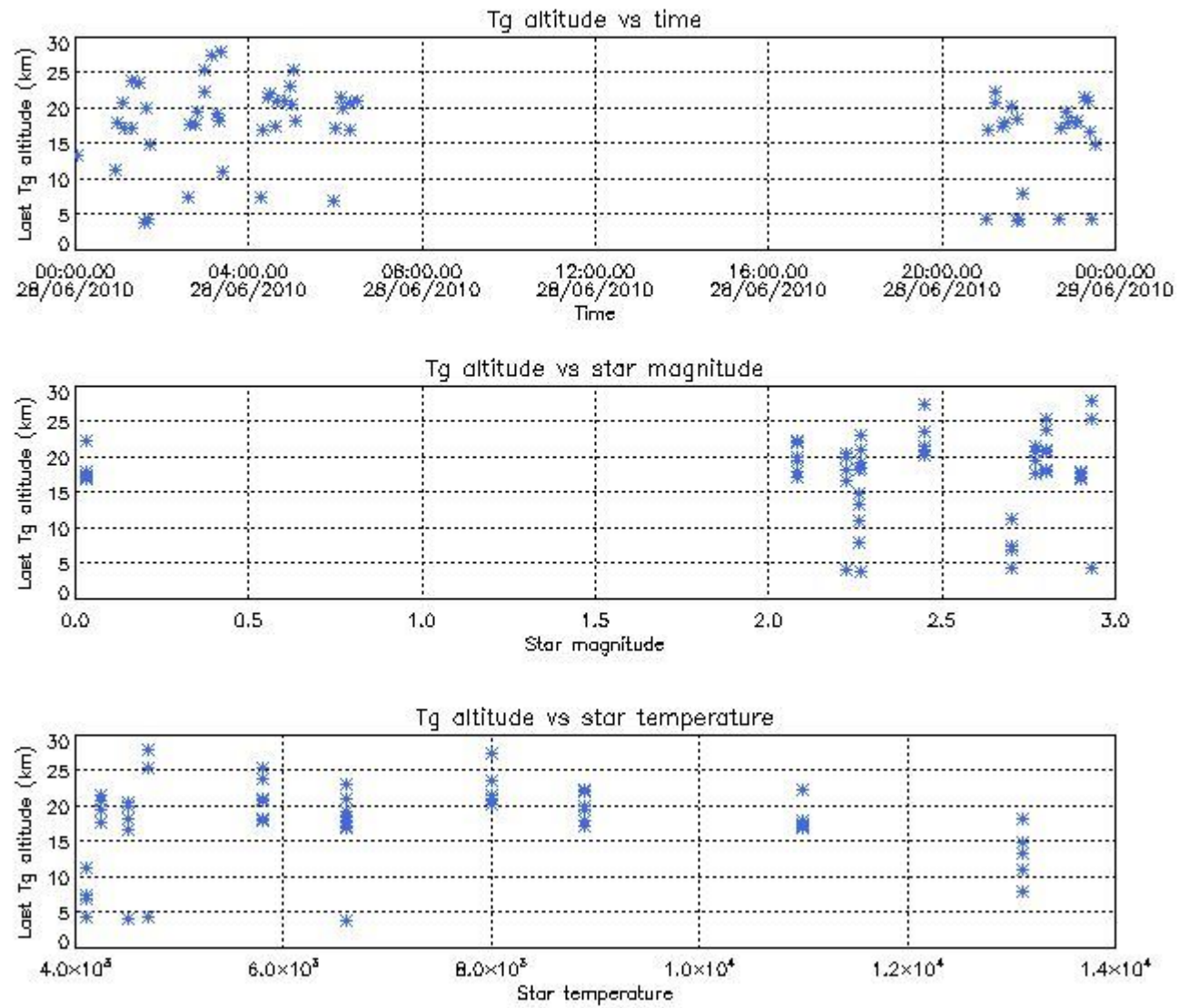
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



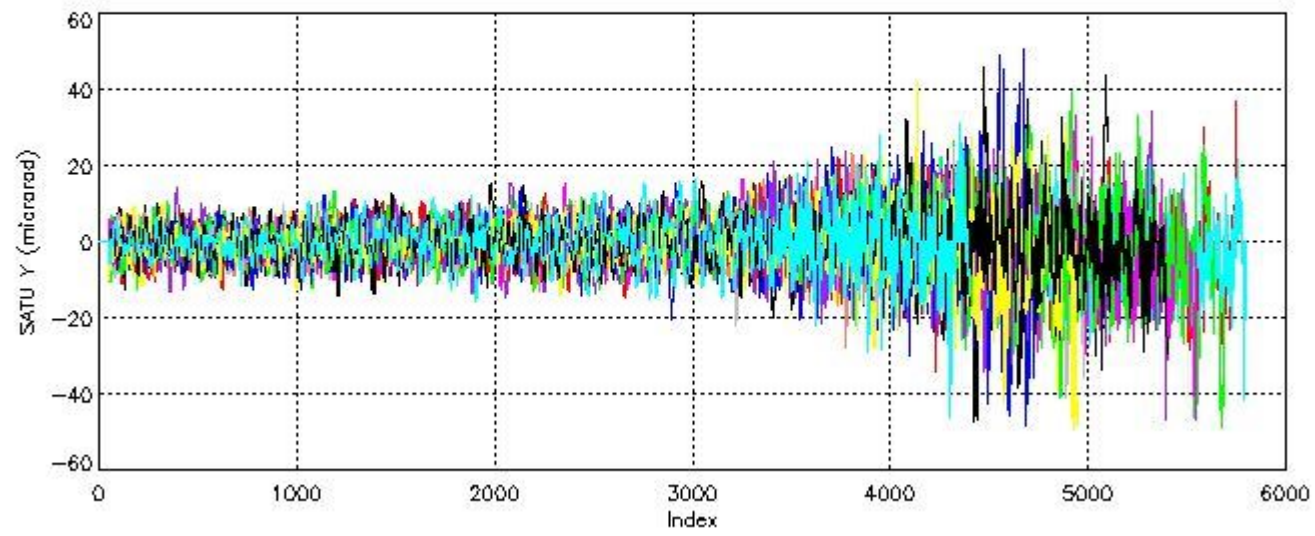
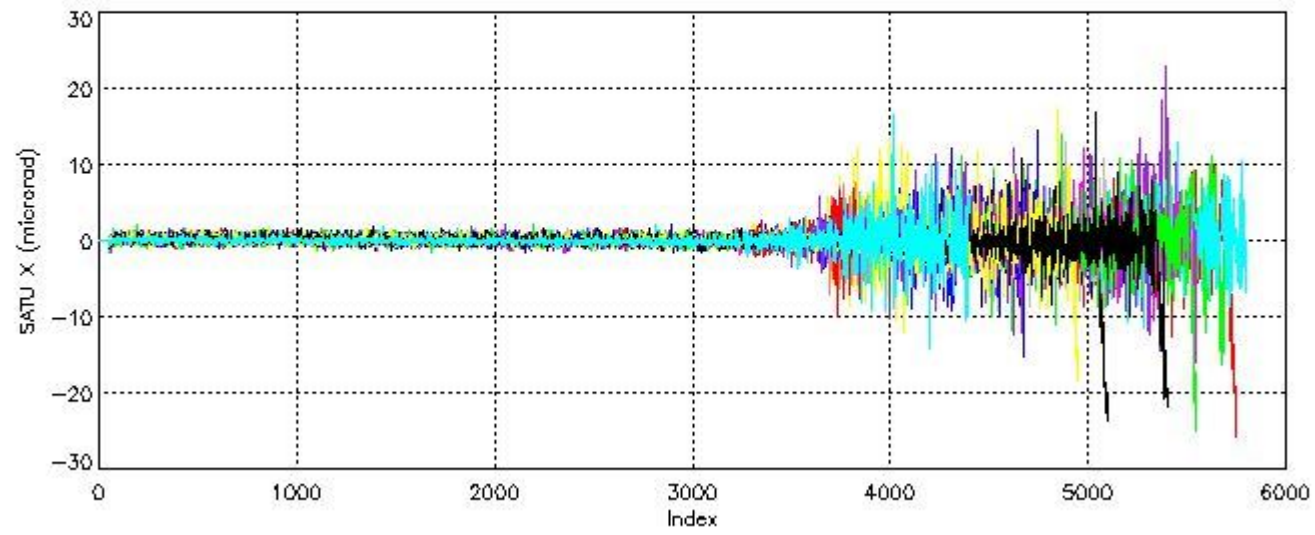
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15938	-0.54241	0.23239	-0.52015
St. deviation:	0.34101	3.6128	0.67588	3.6395
Maximum:	2.0000	14.100	4.4000	14.400
Minimum:	-1.7000	-13.100	-3.6000	-16.000

Number of data:	17550.	17550.	63950.	63950.
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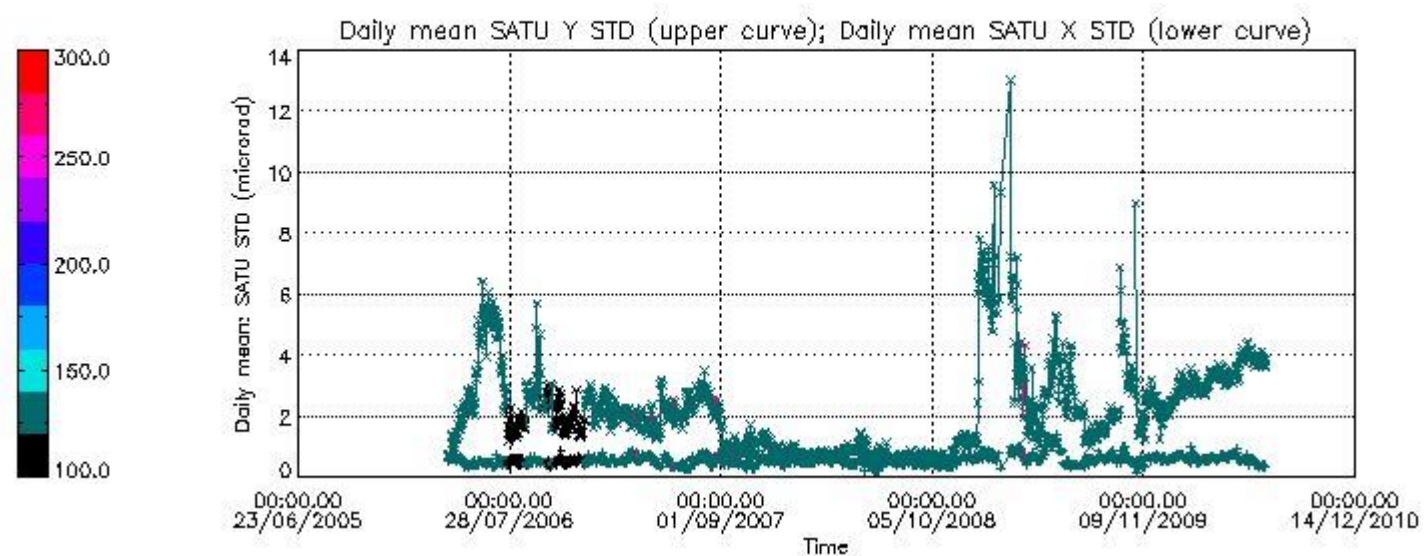
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

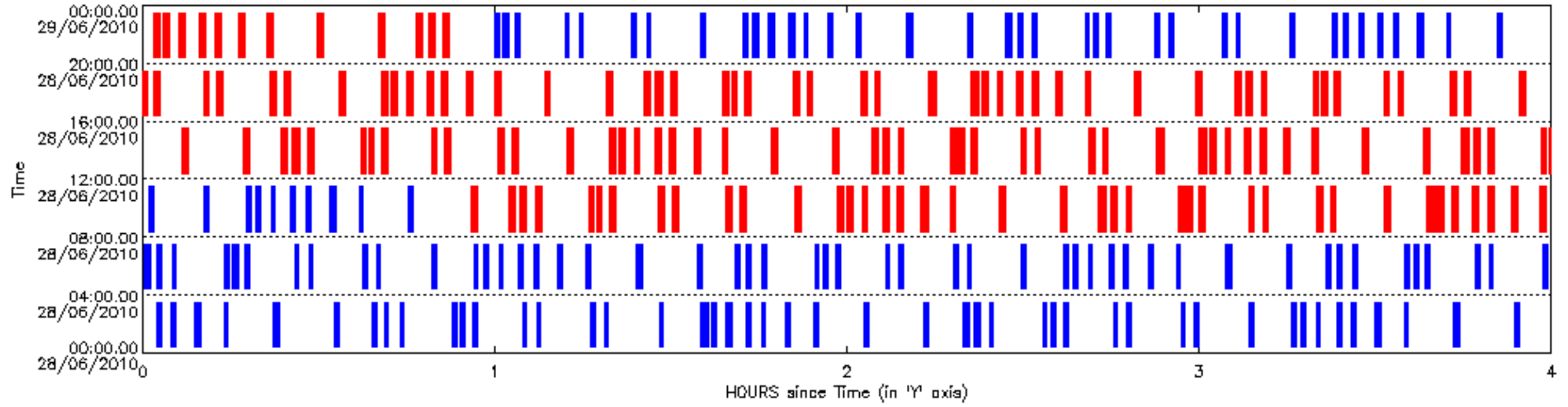
Lower curve: STD of SATU X axis

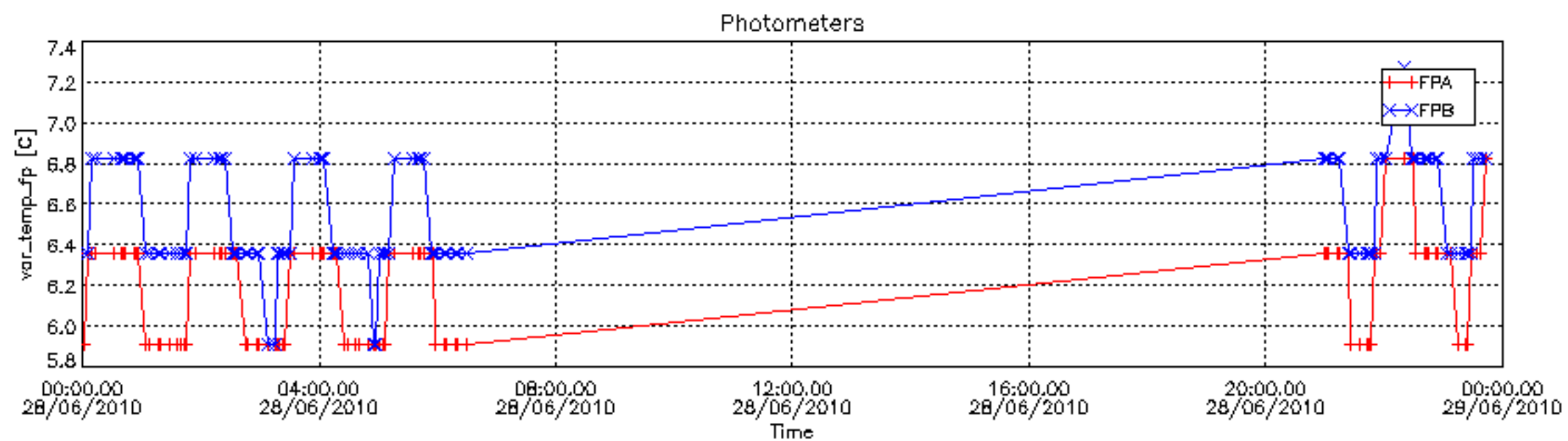
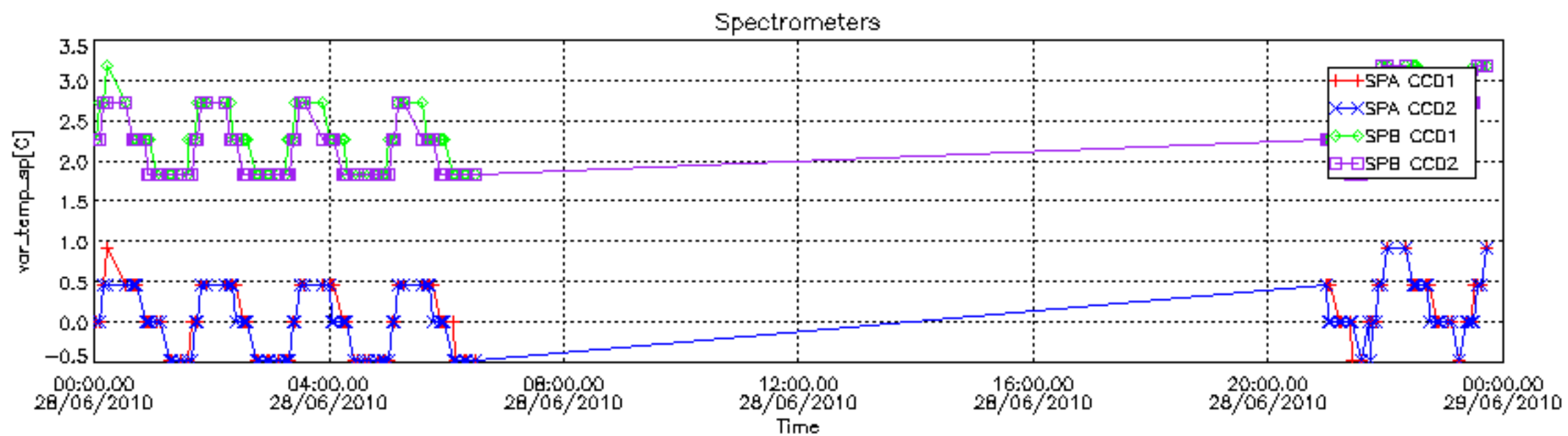


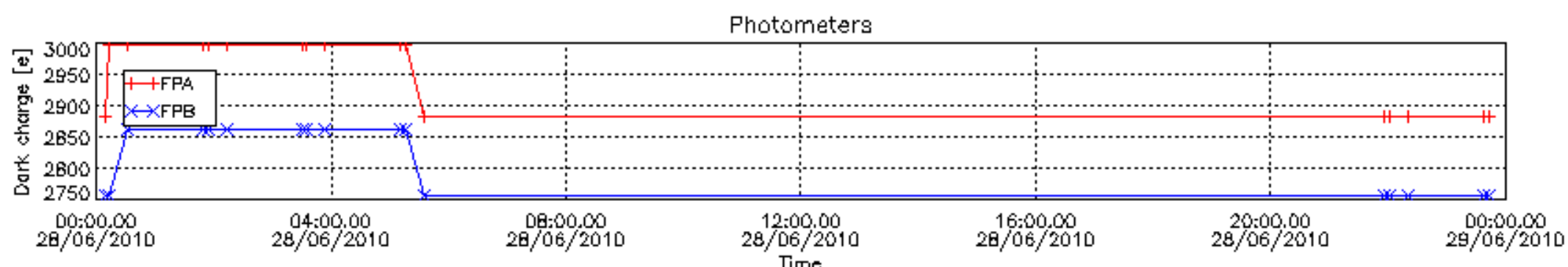
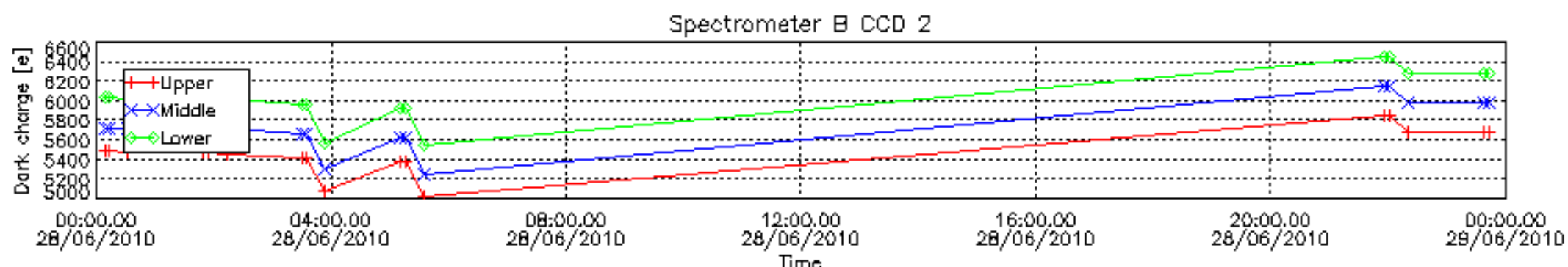
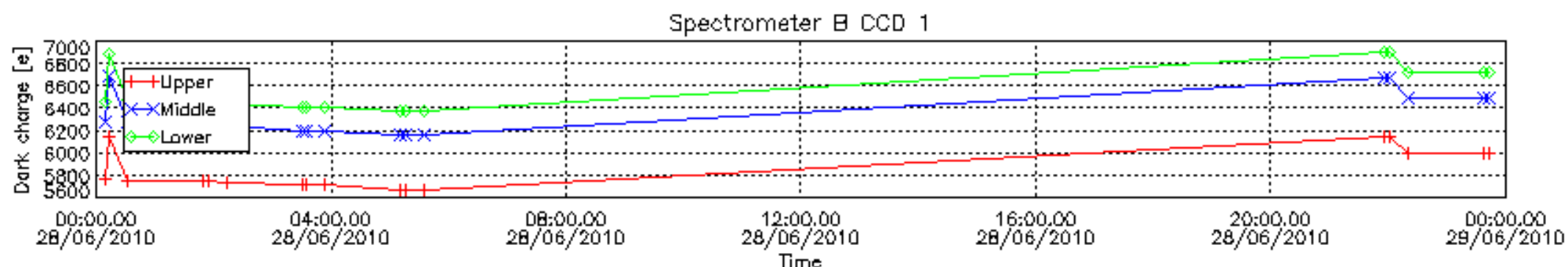
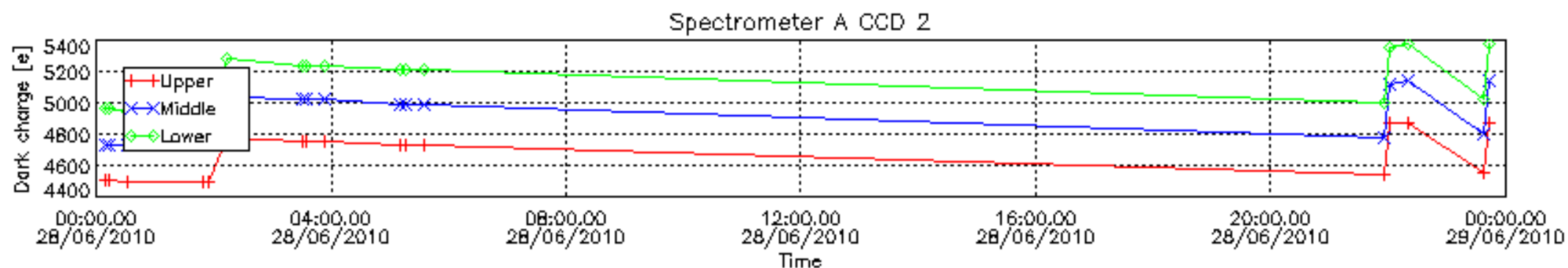
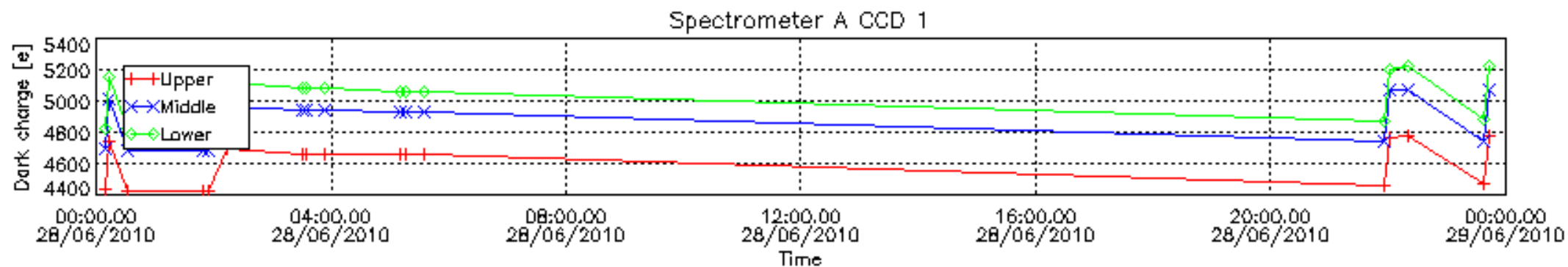
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

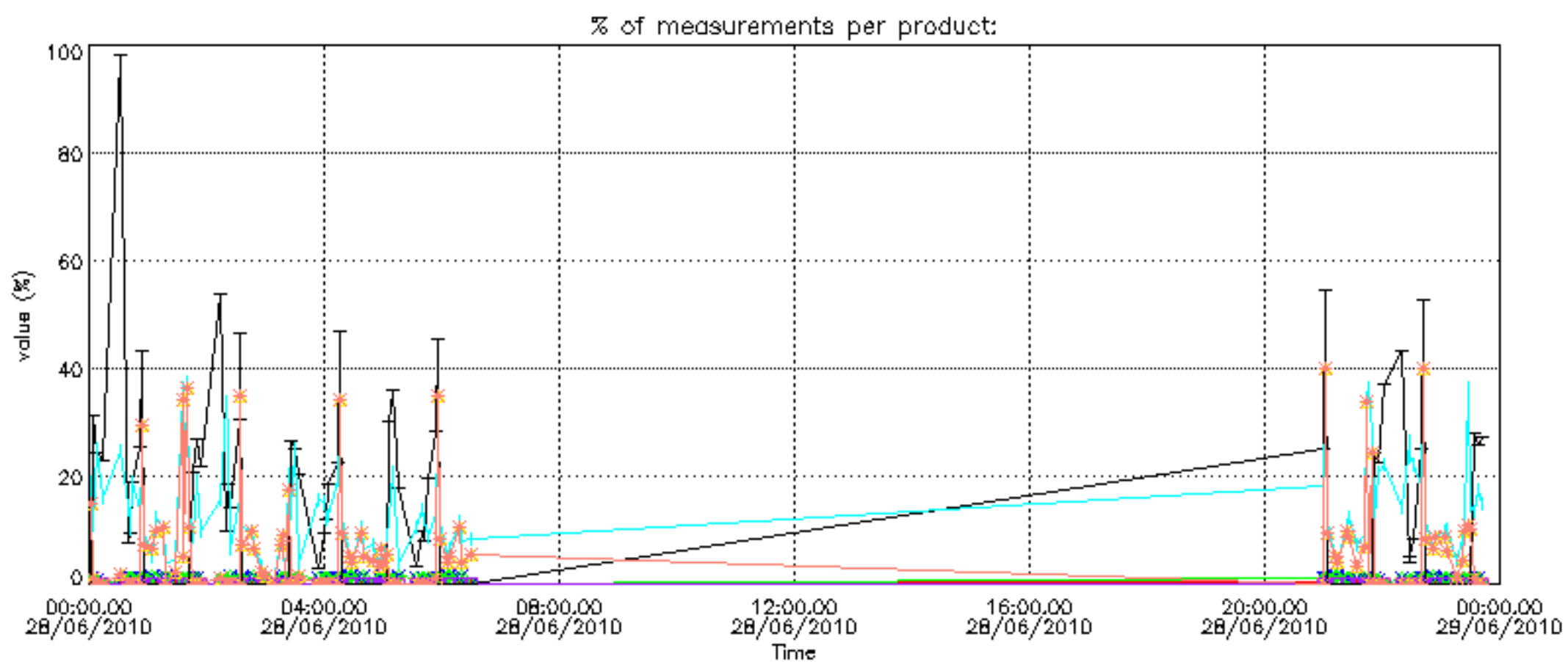
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUN-2010 00:02:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100624_124126_20100622_000000_20500101_000000	1	28-JUN-2010 00:02:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	28-JUN-2010 00:02:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-JUN-2010 00:02:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	28-JUN-2010 00:02:12
ECMWF_FILE	AUX_ECF_AXNECM20100627_054112_20100627_210000_20100628_090000	1	28-JUN-2010 00:02:12
ECMWF_FILE	AUX_ECF_AXNECM20100627_172114_20100628_030000_20100628_150000	36	28-JUN-2010 03:15:43
ECMWF_FILE	AUX_ECA_AXNECM20100628_052113_20100627_210000_20100628_090000	55	28-JUN-2010 04:56:18
ECMWF_FILE	AUX_ECF_AXNECM20100628_052114_20100628_150000_20100629_030000	74	28-JUN-2010 20:59:55
ECMWF_FILE	AUX_ECF_AXNECM20100628_054114_20100628_210000_20100629_090000	89	28-JUN-2010 22:20:30
OPTIONAL_ECMWF_FILE	MISSING	1	28-JUN-2010 00:02:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100627_223404_000057382090_00387_43527_0639.N1	1	28-JUN-2010 00:02:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100627_092113_20100626_182053_20100706_212742	5	28-JUN-2010 00:32:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100628_015558_000041442090_00389_43529_0641.N1	24	28-JUN-2010 02:13:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100628_031021_000057382090_00390_43530_0642.N1	36	28-JUN-2010 03:15:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100628_045118_000057382090_00391_43531_0643.N1	55	28-JUN-2010 04:56:18
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100628_092114_20100627_192952_20100707_205605	74	28-JUN-2010 20:59:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100628_220203_000057382090_00401_43541_0645.N1	89	28-JUN-2010 22:20:30



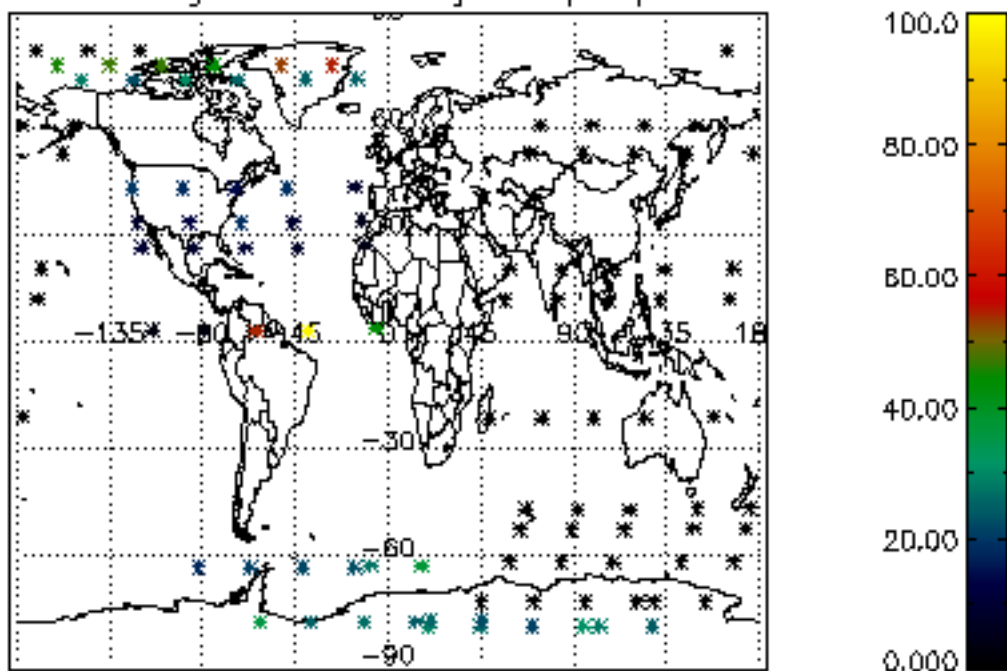




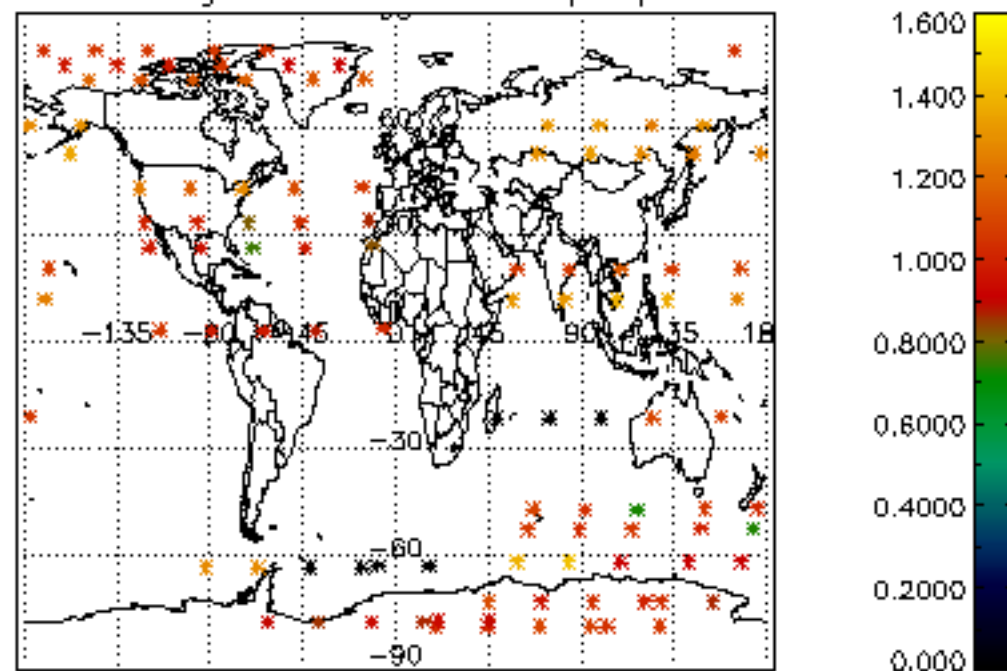




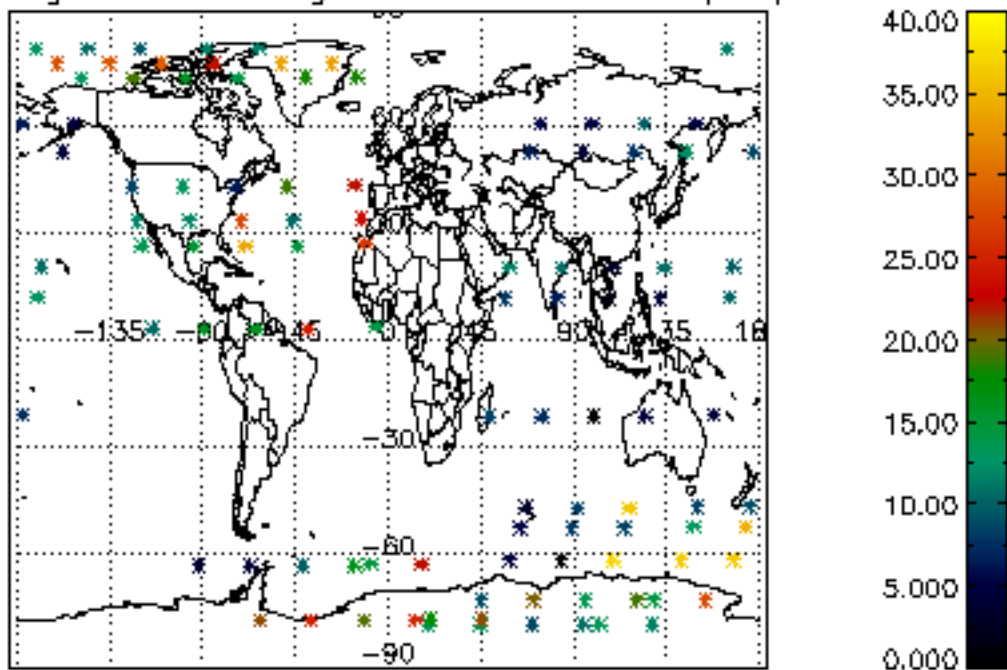
Percentage of cosmic ray hits per profile



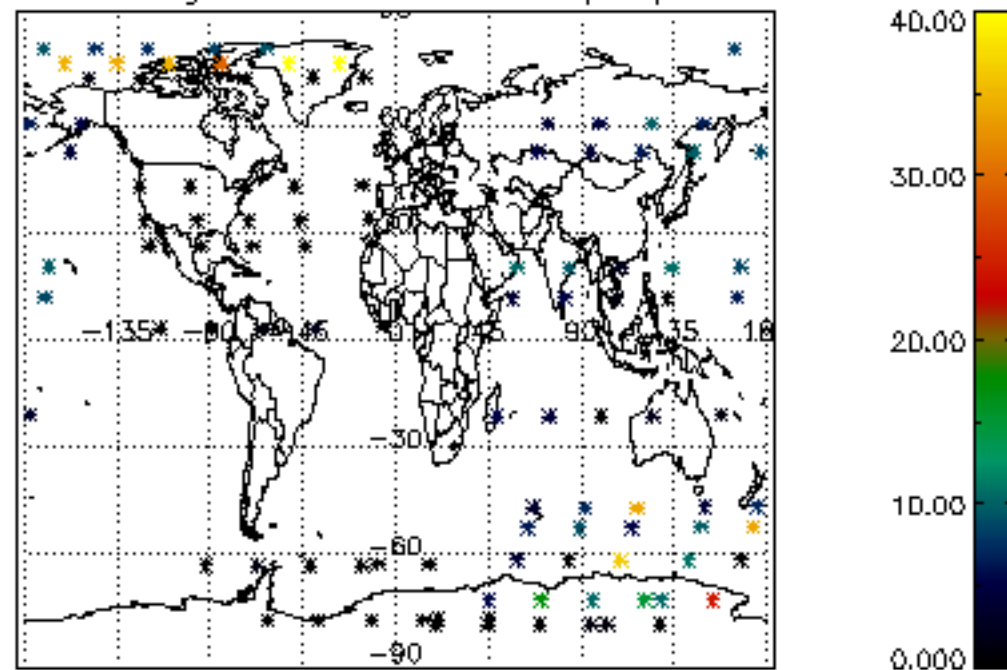
Percentage of datation errors per profile



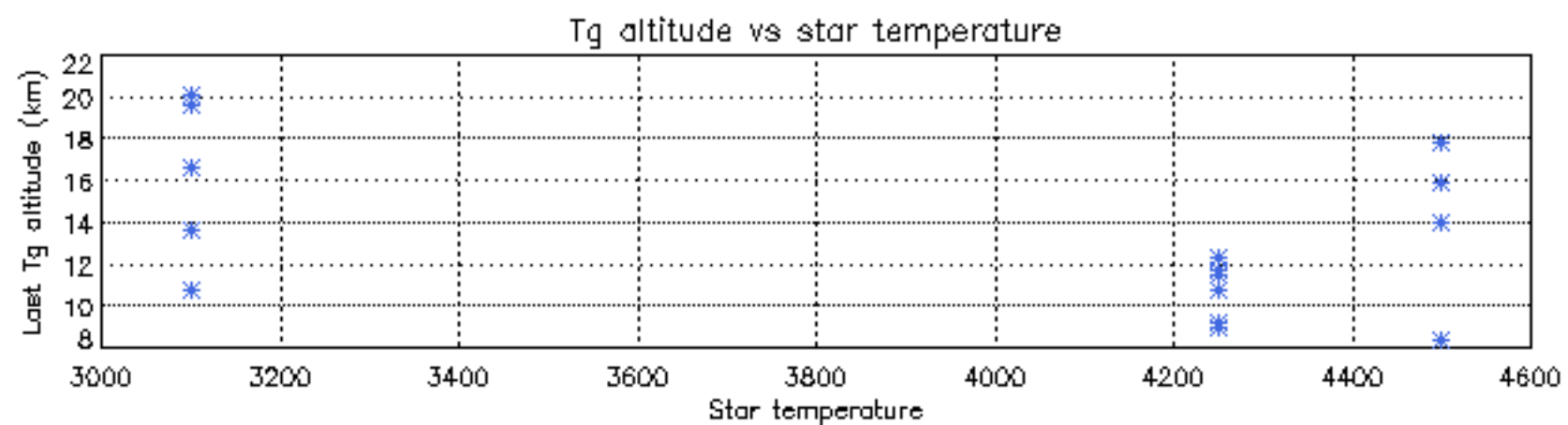
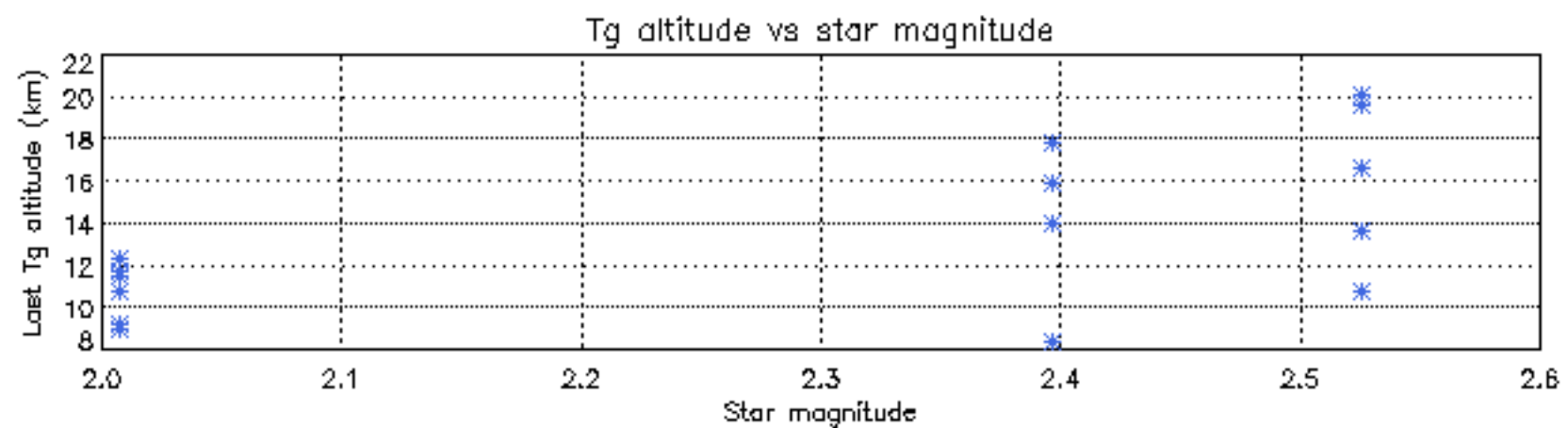
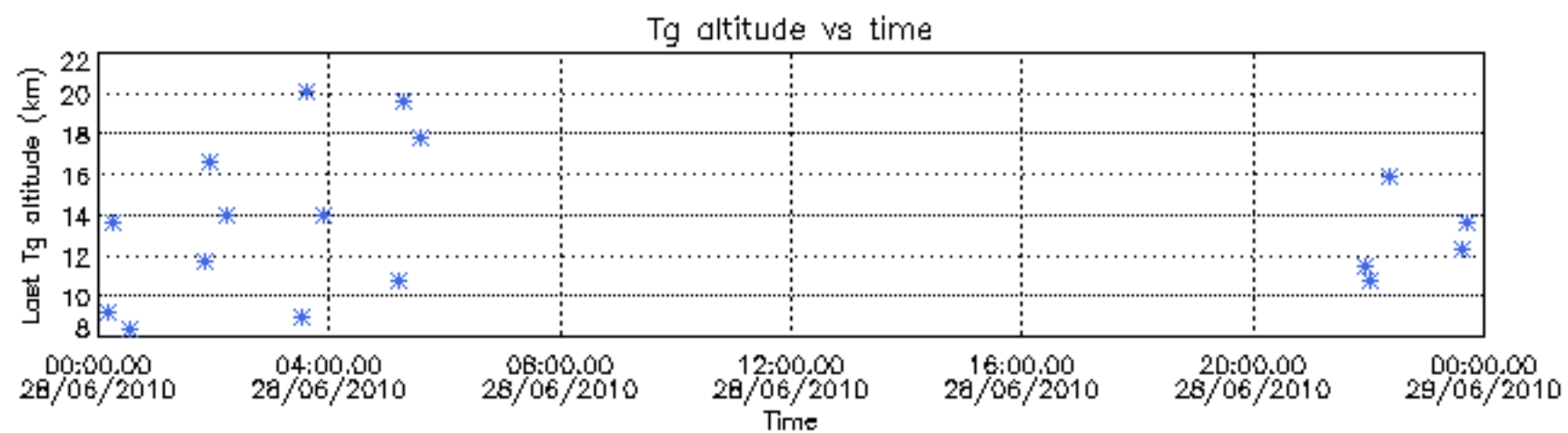
Percentage of star falling outside central band per profile



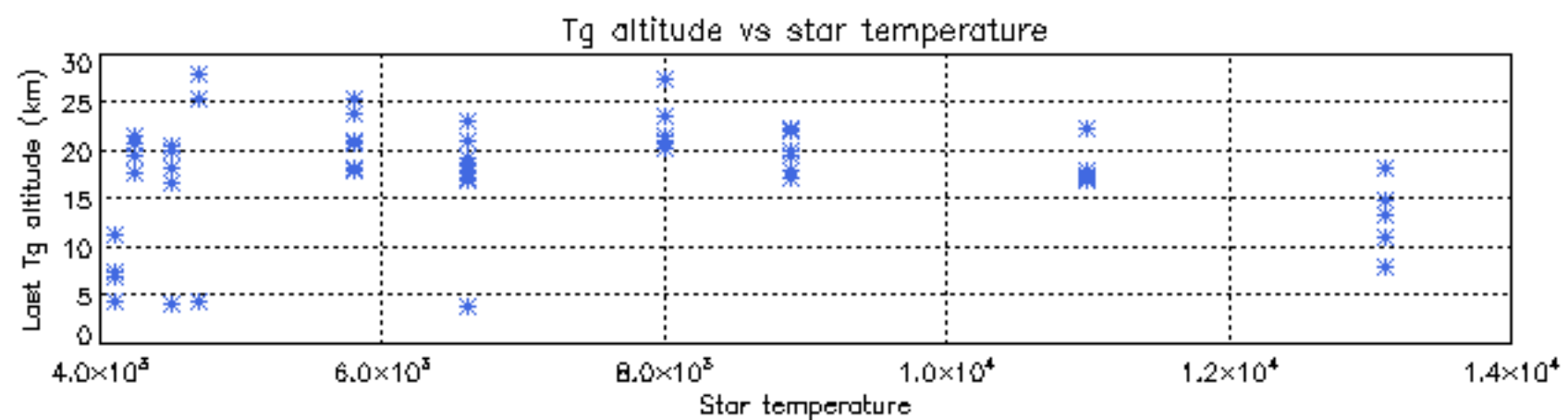
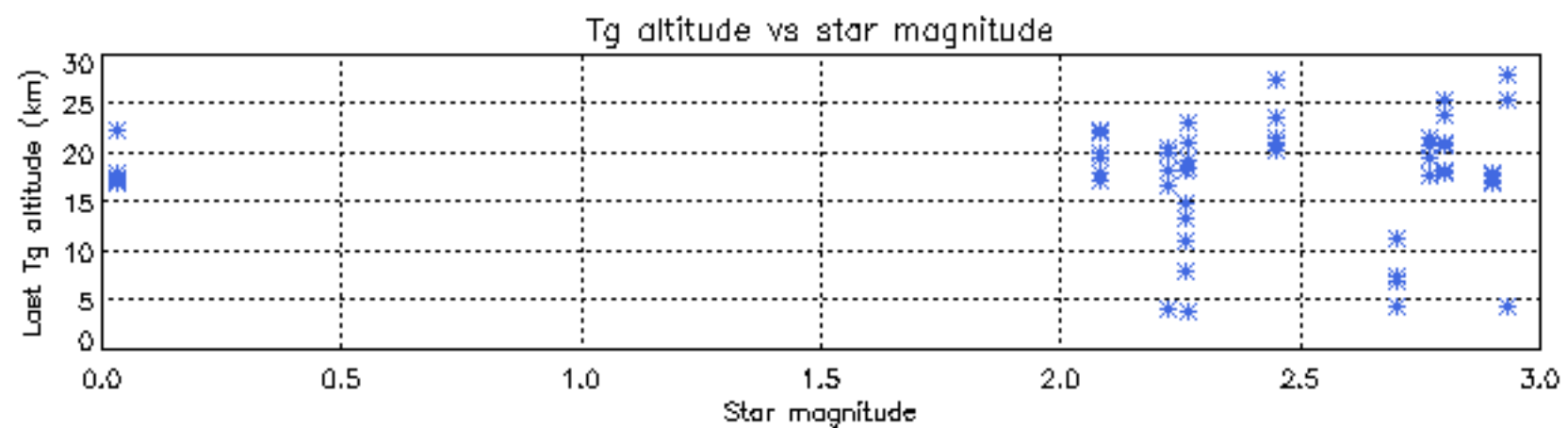
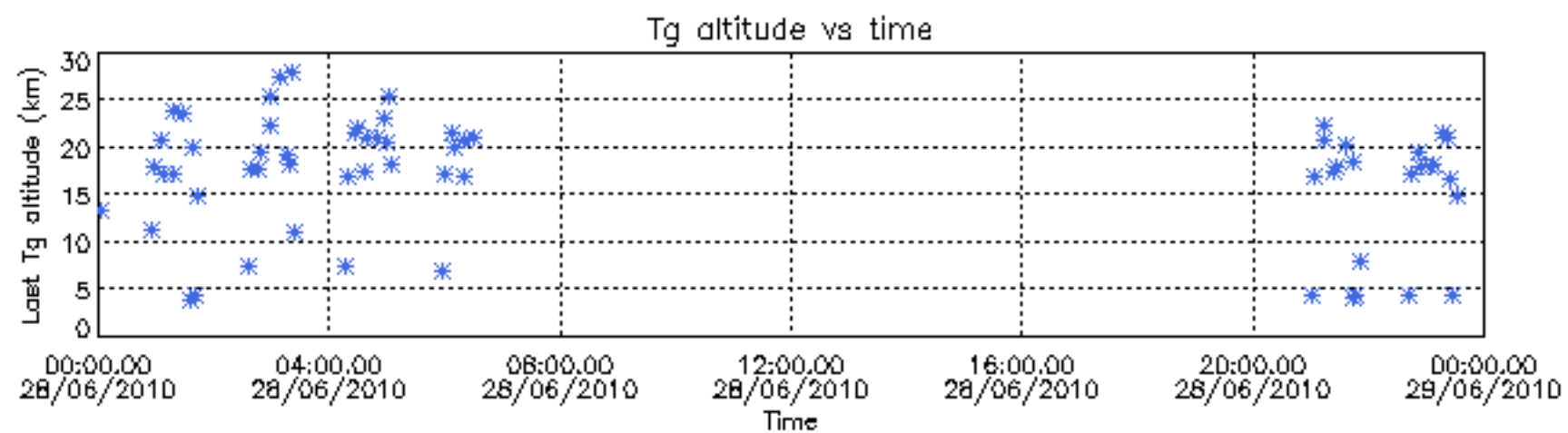
Percentage of saturation errors per profile

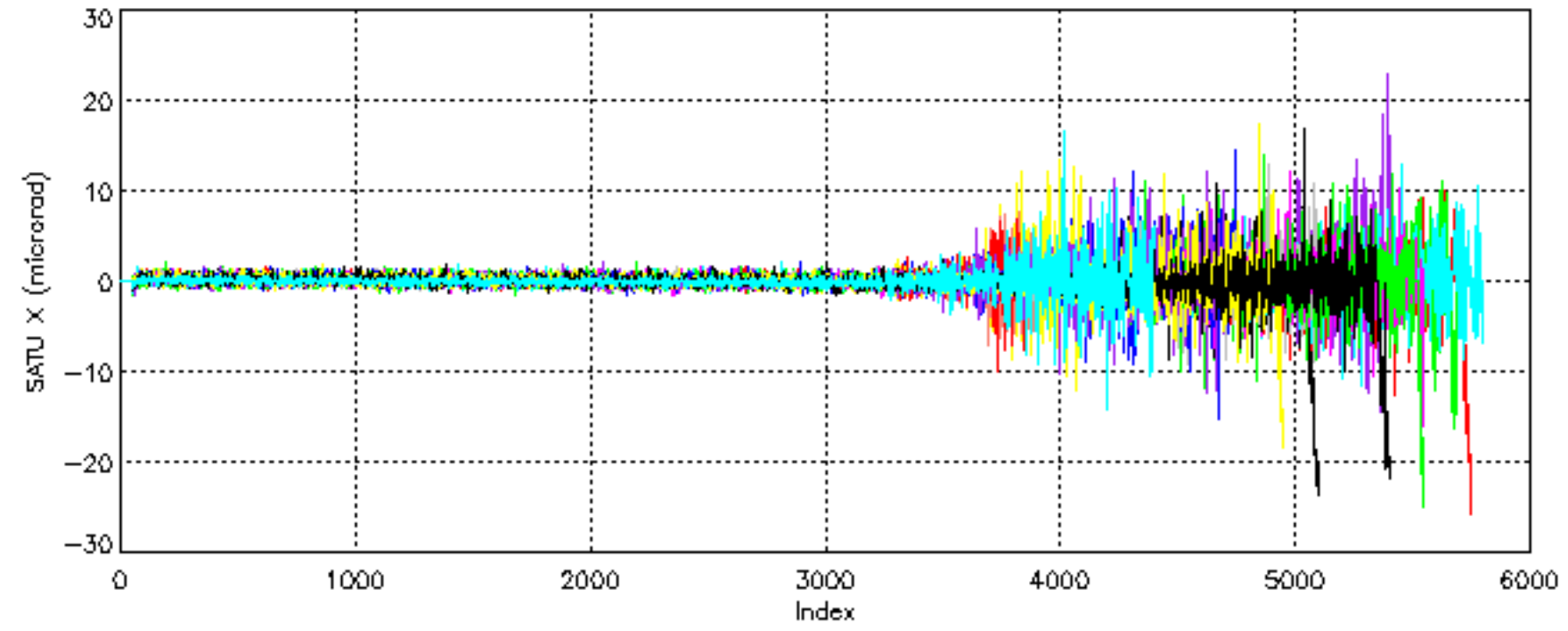


Tangent altitude at which the star is lost

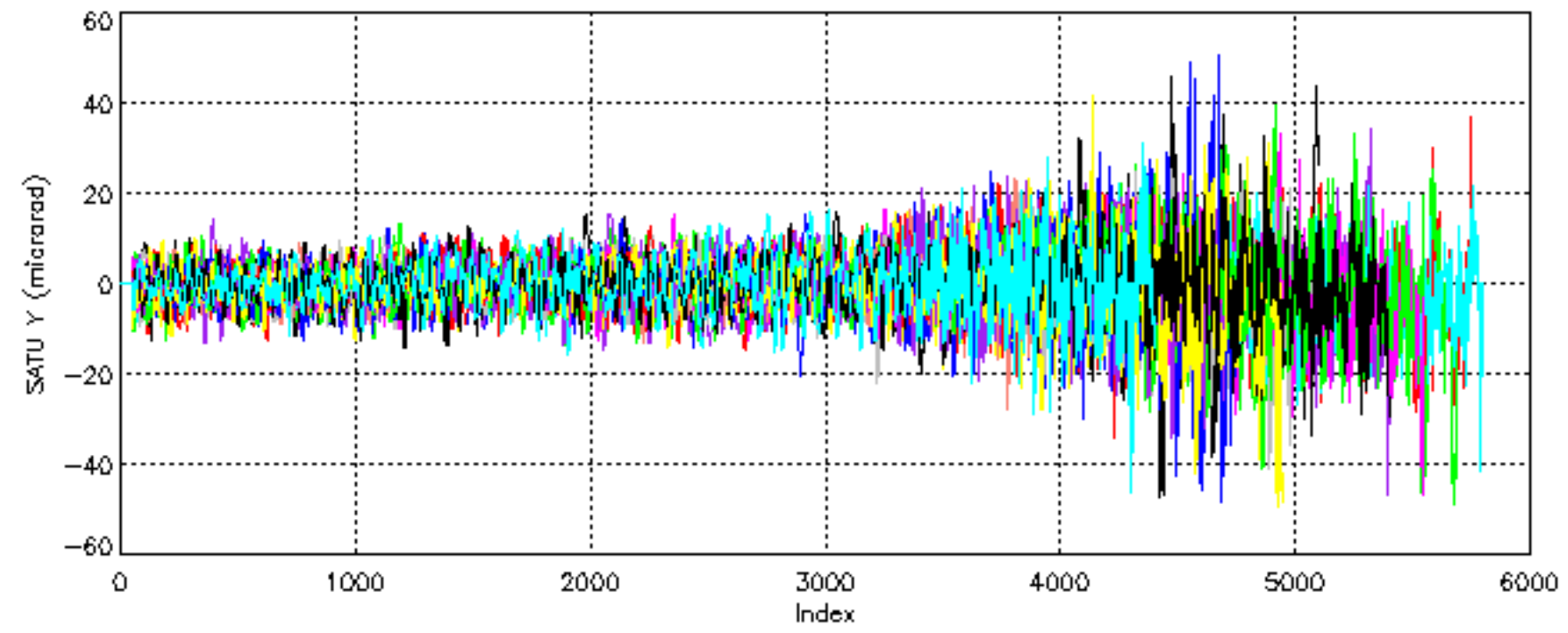


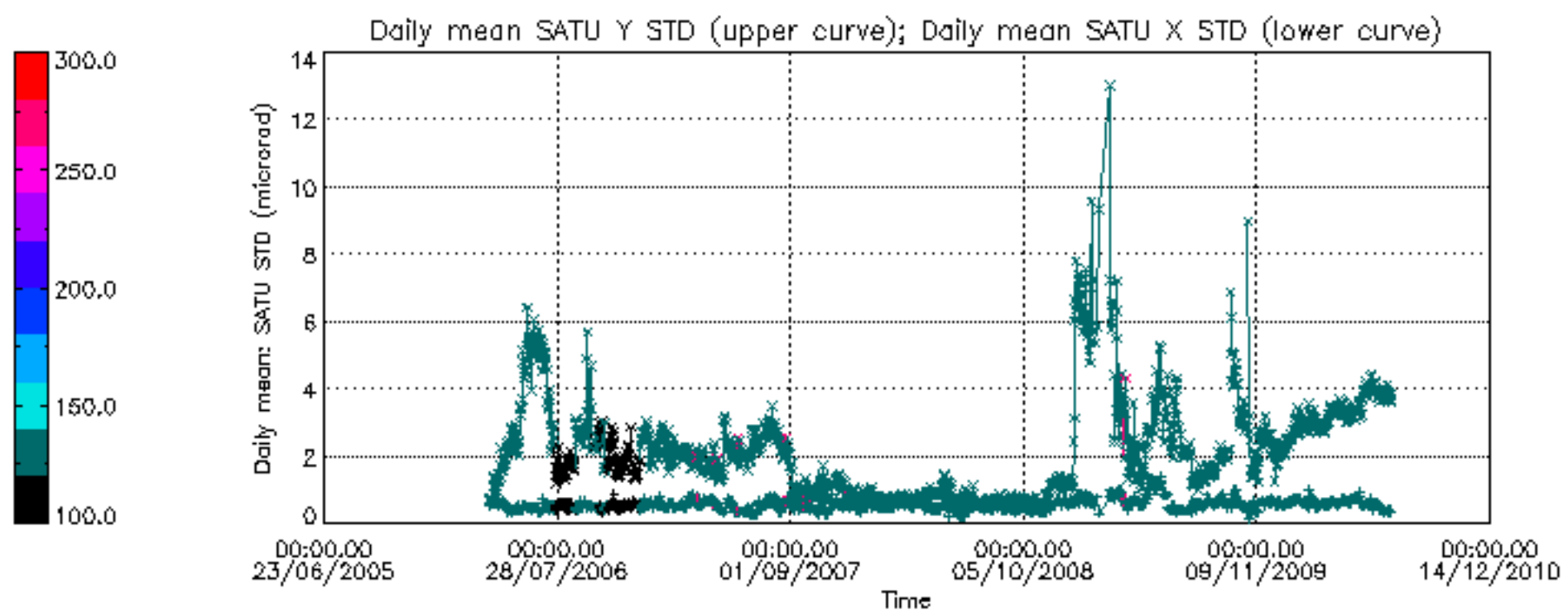
Tangent altitude at which the star is lost











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 7; 1034.9; 01-JUN-2010 01:37:46; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43143  
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 25; 9040.7; 01-JUN-2010 05:31:48; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43145

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9; 190.0; 01-JUN-2010 06:25:29; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43146
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18; 1702.5; 01-JUN-2010 06:50:42; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;43146
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23; 3004.5; 01-JUN-2010 07:12:24; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43146
24; 3628.1; 01-JUN-2010 07:22:47; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43146
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6; -643.6; 01-JUN-2010 07:52:12; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;43146
7; -241.5; 01-JUN-2010 07:58:54; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;43146
8; -120.7; 01-JUN-2010 08:00:54; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;43146
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7; 3611.0; 03-JUN-2010 07:59:52; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;43175  
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9; 4396.6; 03-JUN-2010 08:12:58; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;43175  
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 17; 6983.4; 03-JUN-2010 10:36:40; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;43177  
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 4; 2311.8; 03-JUN-2010 10:59:25; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;43177  
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 7; 3609.7; 03-JUN-2010 11:21:03; Bright; 30.0; 89; 5Alp Cep ; 2.45; 8000;occ; 60; 0;43177  
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 9; 4396.6; 03-JUN-2010 11:34:10; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;43177  
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 18; 6983.9; 03-JUN-2010 12:17:17; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;43178  
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 5; 1704.3; 03-JUN-2010 17:31:41; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;43181  
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 8; 2310.4; 03-JUN-2010 17:41:47; Bright; 42.0; 127; 27Bet Her ; 2.78; 4700;occ; 84; 0;43181  
 9; 2511.9; 03-JUN-2010 17:45:09; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;43181  
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 11; 3607.1; 03-JUN-2010 18:03:24; Bright; 49.0; 89; 5Alp Cep ; 2.45; 8000;occ; 98; 0;43181  
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 13; 4397.3; 03-JUN-2010 18:16:34; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;43181  
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13; 2278.2; 14-JUN-2010 21:57:04; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;43341
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12; 2447.4; 22-JUN-2010 22:48:44; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43456
13; 2721.7; 22-JUN-2010 22:53:18; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43456

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 17; 3931.9; 22-JUN-2010 23:13:29; Bright; 65.0; 68; 18Alp Cas ; 2.22; 4500;occ; 130; 0;43456  
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 13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457  
 14; 2834.6; 23-JUN-2010 00:35:47; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43457  
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 13; 2833.9; 23-JUN-2010 02:16:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43458  
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5; 691.0; 23-JUN-2010 21:47:51; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43470
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19; 4416.1; 24-JUN-2010 00:30:32; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43471
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 11; 510.0; 24-JUN-2010 06:07:49; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;43475  
 12; 693.5; 24-JUN-2010 06:10:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43475  
 13; 1245.7; 24-JUN-2010 06:20:05; Dark ; 47.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 94; 0;43475  
 14; 1330.4; 24-JUN-2010 06:21:30; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;43475  
 15; 1460.1; 24-JUN-2010 06:23:39; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43475  
 16; 1987.9; 24-JUN-2010 06:32:27; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43475  
 17; 2131.6; 24-JUN-2010 06:34:51; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43475  
 18; 2446.4; 24-JUN-2010 06:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43475  
 19; 2708.7; 24-JUN-2010 06:44:28; Bright; 49.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 99; 0;43475  
 20; 2829.7; 24-JUN-2010 06:46:29; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43475  
 21; 3411.8; 24-JUN-2010 06:56:11; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43475

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 2; 1332.6; 24-JUN-2010 19:46:19; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;43483  
 3; 1461.8; 24-JUN-2010 19:48:28; Bright; 51.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 103; 0;43483  
 4; 1986.8; 24-JUN-2010 19:57:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43483  
 5; 2130.3; 24-JUN-2010 19:59:37; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43483  
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 9; 3829.1; 24-JUN-2010 20:27:56; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43483  
 10; 3922.7; 24-JUN-2010 20:29:29; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43483  
 11; 4065.0; 24-JUN-2010 20:31:52; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43483  
 12; 4270.4; 24-JUN-2010 20:35:17; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;43483  
 13; 4417.3; 24-JUN-2010 20:37:44; Dark ; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;43483  
 14; 4651.6; 24-JUN-2010 20:41:38; Dark ; 54.0; 50; 13Alp Ari ; 2.01; 4250;occ; 108; 0;43483

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 3; 8.2; 24-JUN-2010 21:04:51; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43483  
 4; 397.1; 24-JUN-2010 21:11:20; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43484  
 5; 518.5; 24-JUN-2010 21:13:21; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43484  
 6; 698.4; 24-JUN-2010 21:16:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43484  
 7; 1248.2; 24-JUN-2010 21:25:31; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43484  
 8; 1332.8; 24-JUN-2010 21:26:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43484  
 9; 1462.1; 24-JUN-2010 21:29:05; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43484  
 10; 1987.0; 24-JUN-2010 21:37:50; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43484  
 11; 2130.1; 24-JUN-2010 21:40:13; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;43484  
 12; 2702.6; 24-JUN-2010 21:49:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43484  
 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484  
 14; 3405.4; 24-JUN-2010 22:01:28; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43484  
 15; 3828.6; 24-JUN-2010 22:08:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43484  
 16; 3922.2; 24-JUN-2010 22:10:05; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43484  
 17; 4064.9; 24-JUN-2010 22:12:27; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43484  
 18; 4270.0; 24-JUN-2010 22:15:53; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;43484  
 19; 4416.8; 24-JUN-2010 22:18:19; Dark ; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;43484  
 20; 4651.7; 24-JUN-2010 22:22:14; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43484

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 3; 9.2; 24-JUN-2010 22:45:28; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;43484  
 4; 398.2; 24-JUN-2010 22:51:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43485  
 5; 519.7; 24-JUN-2010 22:53:58; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43485  
 6; 698.8; 24-JUN-2010 22:56:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43485  
 7; 1248.5; 24-JUN-2010 23:06:07; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43485  
 8; 1332.8; 24-JUN-2010 23:07:31; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;43485  
 9; 1462.1; 24-JUN-2010 23:09:41; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43485

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11; 2130.2; 24-JUN-2010 23:20:49; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;43485
12; 2702.2; 24-JUN-2010 23:30:21; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43485
13; 2826.9; 24-JUN-2010 23:32:25; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43485
14; 3405.2; 24-JUN-2010 23:42:04; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43485
15; 3828.1; 24-JUN-2010 23:49:06; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;43485
16; 3921.8; 24-JUN-2010 23:50:40; Bright; 66.0; 68; 18Alp Cas ; 2.22; 4500;occ; 132; 0;43485
17; 4064.8; 24-JUN-2010 23:53:03; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43485
18; 4269.9; 24-JUN-2010 23:56:28; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;43485
19; 4417.2; 24-JUN-2010 23:58:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43485
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3; 10.0; 25-JUN-2010 00:26:04; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43486
4; 399.1; 25-JUN-2010 00:32:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43486
5; 520.4; 25-JUN-2010 00:34:35; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43486
6; 699.5; 25-JUN-2010 00:37:34; Dark ; 49.5; 45; Alp Pav ; 1.94; 26000;occ; 99; 0;43486
7; 1248.9; 25-JUN-2010 00:46:43; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43486
8; 1333.3; 25-JUN-2010 00:48:08; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43486
9; 1462.4; 25-JUN-2010 00:50:17; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43486
10; 1986.6; 25-JUN-2010 00:59:01; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43486
11; 2129.9; 25-JUN-2010 01:01:24; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43486
12; 2701.4; 25-JUN-2010 01:10:56; Bright; 50.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 101; 0;43486
13; 2826.6; 25-JUN-2010 01:13:01; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43486
14; 3404.5; 25-JUN-2010 01:22:39; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43486
15; 3827.4; 25-JUN-2010 01:29:42; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;43486
16; 3921.4; 25-JUN-2010 01:31:16; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;43486
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19; 4417.1; 25-JUN-2010 01:39:31; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43486
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3; 10.9; 25-JUN-2010 02:06:41; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43487
4; 400.3; 25-JUN-2010 02:13:10; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43487
5; 521.4; 25-JUN-2010 02:15:12; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43487
6; 700.1; 25-JUN-2010 02:18:10; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43487
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8; 1333.6; 25-JUN-2010 02:28:44; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;43487
9; 1462.7; 25-JUN-2010 02:30:53; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;43487
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11; 2129.9; 25-JUN-2010 02:42:00; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43487
12; 2700.9; 25-JUN-2010 02:51:31; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43487
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4; -1765.8; 25-JUN-2010 03:17:40; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43487
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6; -1383.2; 25-JUN-2010 03:24:03; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;43487
7; -602.7; 25-JUN-2010 03:37:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43487
8; -313.2; 25-JUN-2010 03:41:53; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;43487
9; 12.0; 25-JUN-2010 03:47:18; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43488
10; 401.2; 25-JUN-2010 03:53:47; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43488
11; 522.3; 25-JUN-2010 03:55:48; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43488
12; 700.5; 25-JUN-2010 03:58:47; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43488
13; 1249.4; 25-JUN-2010 04:07:55; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43488
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 4; 532.8; 25-JUN-2010 22:22:34; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43499  
 5; 706.4; 25-JUN-2010 22:25:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43499  
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 7; 1336.7; 25-JUN-2010 22:35:58; Dark ; 50.5; 116; 19Del Sgr ; 2.70; 4100;occ; 101; 0;43499  
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 9; 1985.3; 25-JUN-2010 22:46:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43499  
 10; 2128.1; 25-JUN-2010 22:49:10; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43499  
 11; 2693.2; 25-JUN-2010 22:58:35; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43499  
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 13; 3395.3; 25-JUN-2010 23:10:17; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43499  
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 16; 4064.8; 25-JUN-2010 23:21:26; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43499  
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 19; 4656.0; 25-JUN-2010 23:31:17; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43499  
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 6; 1252.6; 26-JUN-2010 00:15:10; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43500  
 7; 1336.7; 26-JUN-2010 00:16:34; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43500  
 8; 1465.2; 26-JUN-2010 00:18:43; Bright; 49.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 99; 0;43500  
 9; 1985.6; 26-JUN-2010 00:27:23; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43500



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12; 2823.3; 26-JUN-2010 00:41:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43500
13; 3394.6; 26-JUN-2010 00:50:52; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43500
14; 3821.2; 26-JUN-2010 00:57:58; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43500
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16; 4064.7; 26-JUN-2010 01:02:02; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43500
17; 4269.7; 26-JUN-2010 01:05:27; Bright; 61.0; 73; 57Gam1And ; 2.26; 13100;occ; 122; 0;43500
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19; 4656.4; 26-JUN-2010 01:11:54; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43500
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3; 534.5; 26-JUN-2010 01:43:48; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43501
4; 707.7; 26-JUN-2010 01:46:41; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;43501
5; 1253.3; 26-JUN-2010 01:55:46; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43501
6; 1337.1; 26-JUN-2010 01:57:10; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;43501
7; 1465.6; 26-JUN-2010 01:59:19; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43501
8; 1985.6; 26-JUN-2010 02:07:59; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;43501
9; 2128.0; 26-JUN-2010 02:10:21; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43501
10; 2692.0; 26-JUN-2010 02:19:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43501
11; 2823.2; 26-JUN-2010 02:21:56; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43501
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3;-1971.2; 26-JUN-2010 02:42:38; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43501
4;-1766.2; 26-JUN-2010 02:46:03; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;43501
5;-1617.2; 26-JUN-2010 02:48:32; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43501
6;-1379.4; 26-JUN-2010 02:52:30; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43501
7;-1086.9; 26-JUN-2010 02:57:22; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;43501
8; -592.6; 26-JUN-2010 03:05:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43501
9; 414.9; 26-JUN-2010 03:22:24; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43502
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11; 708.1; 26-JUN-2010 03:27:17; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43502
12; 1253.6; 26-JUN-2010 03:36:23; Dark ; 47.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 95; 0;43502
13; 1337.5; 26-JUN-2010 03:37:47; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43502
14; 1465.9; 26-JUN-2010 03:39:55; Bright; 49.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 98; 0;43502
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18; 2822.8; 26-JUN-2010 04:02:32; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43502
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3;-1970.9; 26-JUN-2010 04:23:14; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43502
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6;-1379.1; 26-JUN-2010 04:33:06; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43502
7;-1086.8; 26-JUN-2010 04:37:58; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;43502
8; -591.8; 26-JUN-2010 04:46:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43502
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13; 1253.9; 26-JUN-2010 05:16:59; Dark ; 46.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 92; 0;43503
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6; 2685.5; 26-JUN-2010 20:46:14; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43512
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13; 3385.8; 26-JUN-2010 22:38:30; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43513
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19; 4660.7; 27-JUN-2010 00:40:21; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;43514
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12; 2654.0; 30-JUN-2010 22:00:26; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43570
13; 2809.6; 30-JUN-2010 22:03:02; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;43570
14; 2926.9; 30-JUN-2010 22:04:59; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;43570
15; 3347.0; 30-JUN-2010 22:11:59; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43570
16; 3787.1; 30-JUN-2010 22:19:20; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43570
17; 3888.9; 30-JUN-2010 22:21:01; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43570
18; 4062.6; 30-JUN-2010 22:23:55; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;43570
19; 4266.8; 30-JUN-2010 22:27:19; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;43570
20; 4424.2; 30-JUN-2010 22:29:57; Dark ; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;43570
21; 4677.7; 30-JUN-2010 22:34:10; Dark ; 56.5; 50; 13Alp Ari ; 2.01; 4250;occ; 113; 0;43570
22; 4975.2; 30-JUN-2010 22:39:08; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;43570
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2; 93.4; 30-JUN-2010 22:58:22; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;43571
3; 482.4; 30-JUN-2010 23:04:51; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;43571
4; 599.4; 30-JUN-2010 23:06:48; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43571
5; 743.3; 30-JUN-2010 23:09:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43571
6; 1313.5; 30-JUN-2010 23:18:42; Dark ; 47.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 95; 0;43571
7; 1480.0; 30-JUN-2010 23:21:28; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43571
8; 1982.2; 30-JUN-2010 23:29:51; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43571
9; 2121.7; 30-JUN-2010 23:32:10; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;43571
10; 2234.2; 30-JUN-2010 23:34:03; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;43571
11; 2653.4; 30-JUN-2010 23:41:02; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43571
12; 2809.0; 30-JUN-2010 23:43:37; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43571

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