

# GOMOS Daily Report 09-NOV-2009

## 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	11NOV2009 09:57:36
Data source version	GOMOS/5.00L03
Start time of products	09NOV2009 00:01:40
Stop time of products	09NOV2009 23:57:36
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

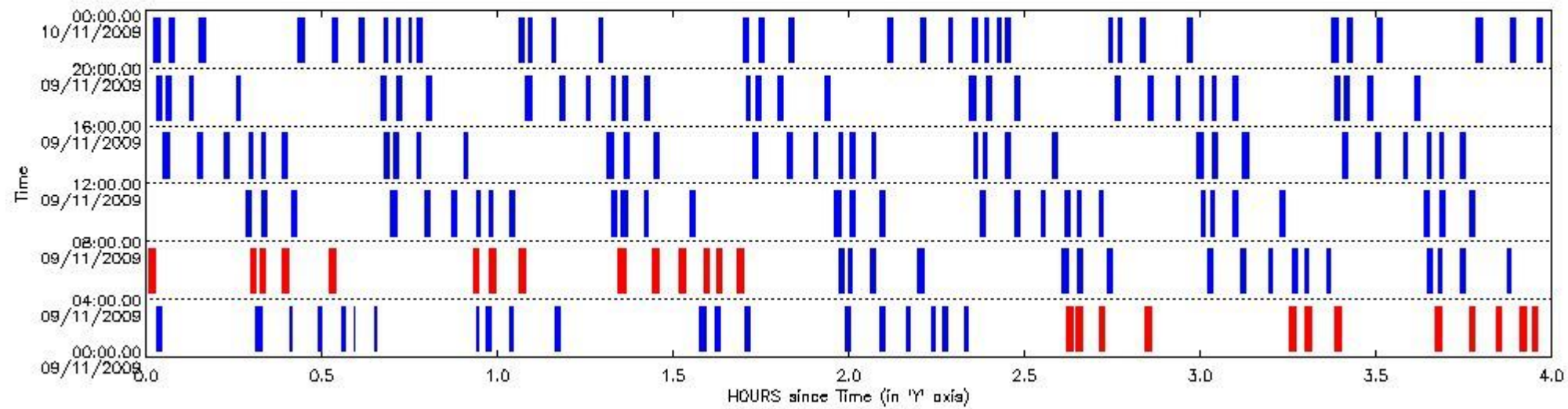
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
09-NOV-2009 02:37:10	50AlpUMa	36	40223
09-NOV-2009 02:38:47	48BetUMa	82	40223
09-NOV-2009 02:42:40	52PsiUMa	174	40223
09-NOV-2009 02:50:38	68DelLeo	96	40223
09-NOV-2009 03:15:10	DSA1030	0	40224
09-NOV-2009 03:17:55	Gam2Vel	34	40224
09-NOV-2009 03:22:59	AlpCar	2	40224
09-NOV-2009 03:40:03	34GamEri	165	40224
09-NOV-2009 03:45:52	92AlpCet	94	40224
09-NOV-2009 03:50:30	6BetAri	105	40224
09-NOV-2009 03:54:40	4BetTri	173	40224
09-NOV-2009 03:56:44	57Gam1And	73	40224
09-NOV-2009 04:00:23	33AlpPer	35	40224
09-NOV-2009 04:17:45	50AlpUMa	36	40224
09-NOV-2009 04:19:23	48BetUMa	82	40224

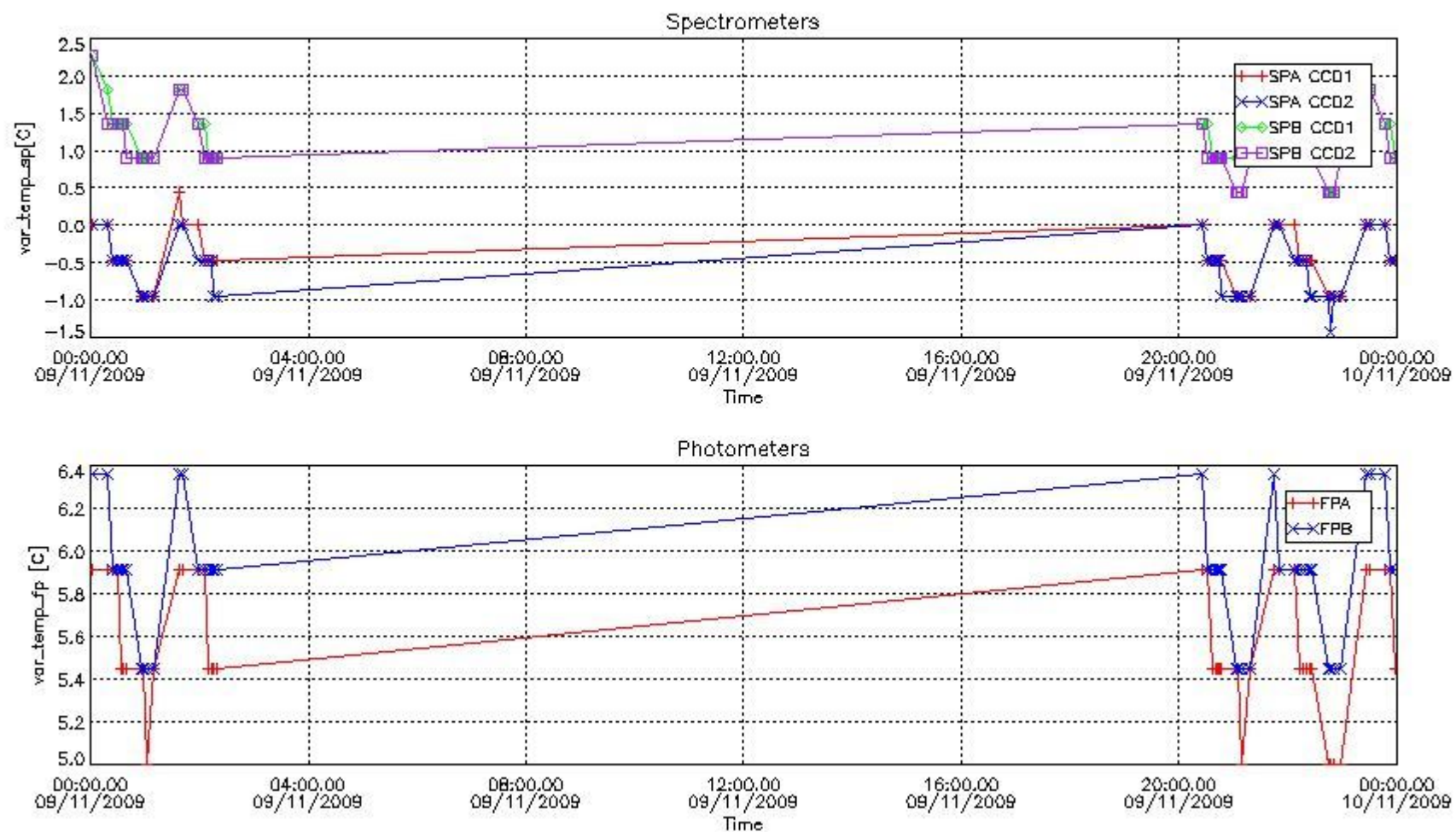
09-NOV-2009 04: 23: 16	52PsiUMa	174	40224
09-NOV-2009 04: 31: 14	68DelLeo	96	40224
09-NOV-2009 04: 55: 47	DSA1030	0	40225
09-NOV-2009 04: 58: 32	Gam2Vel	34	40225
09-NOV-2009 05: 03: 35	AlpCar	2	40225
09-NOV-2009 05: 20: 39	34GamEri	165	40225
09-NOV-2009 05: 26: 28	92AlpCet	94	40225
09-NOV-2009 05: 31: 06	6BetAri	105	40225
09-NOV-2009 05: 35: 16	4BetTri	173	40225
09-NOV-2009 05: 37: 19	57Gam1And	73	40225
09-NOV-2009 05: 40: 58	33AlpPer	35	40225

#### 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_1PNPDE20091109_000140_000000622084_00088_40222_3077.N1	09-NOV-2009 00:01:40	Dark	62.000	2	Alp Car	-0.73600	7000.0	124	40222	No
2	GOM_TRA_1PNPDE20091109_001846_000000592084_00088_40222_3078.N1	09-NOV-2009 00:18:46	Straylight	58.500	165	34Gam Eri	2.9500	3200.0	117	40222	No
3	GOM_TRA_1PNPDE20091109_002436_000000122084_00088_40222_3079.N1	09-NOV-2009 00:24:36	Twilight_stray	11.500	94	92Alp Cet	2.5260	3100.0	23	40222	No
4	GOM_TRA_1PNPDE20091109_002913_000000392084_00088_40222_3080.N1	09-NOV-2009 00:29:13	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40222	No
5	GOM_TRA_1PNPDE20091109_003323_000000382084_00088_40222_3081.N1	09-NOV-2009 00:33:23	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40222	No
6	GOM_TRA_1PNPDE20091109_003527_000000122084_00088_40222_3082.N1	09-NOV-2009 00:35:27	Twilight_stray	12.000	73	57Gam1And	2.2600	13100.	24	40222	No
7	GOM_TRA_1PNPDE20091109_003907_000000142084_00088_40222_3083.N1	09-NOV-2009 00:39:07	Twilight_stray	13.500	35	33Alp Per	1.7950	6250.0	27	40222	No
8	GOM_TRA_1PNPDE20091109_005629_000000072084_00088_40222_3084.N1	09-NOV-2009 00:56:29	Straylight	7.0000	36	50Alp UMa	1.8000	6300.0	14	40222	No
9	GOM_TRA_1PNPDE20091109_005806_000000402084_00088_40222_3085.N1	09-NOV-2009 00:58:06	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40222	No
10	GOM_TRA_1PNPDE20091109_010158_000000402084_00088_40222_3086.N1	09-NOV-2009 01:01:58	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40222	No
11	GOM_TRA_1PNPDE20091109_010956_000000432084_00088_40222_3087.N1	09-NOV-2009 01:09:56	Bright	43.000	96	68Del Leo	2.5600	9300.0	86	40222	No
12	GOM_TRA_1PNPDE20091109_013713_000000472084_00089_40223_3083.N1	09-NOV-2009 01:37:13	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40223	No
13	GOM_TRA_1PNPDE20091109_014217_000000512084_00089_40223_3084.N1	09-NOV-2009 01:42:17	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	40223	No
14	GOM_TRA_1PNPDE20091109_015922_000000542084_00089_40223_3085.N1	09-NOV-2009 01:59:22	Straylight	53.500	165	34Gam Eri	2.9500	3200.0	107	40223	No
15	GOM_TRA_1PNPDE20091109_020511_000000502084_00089_40223_3086.N1	09-NOV-2009 02:05:11	Twilight_stray	49.500	94	92Alp Cet	2.5260	3100.0	99	40223	No
16	GOM_TRA_1PNPDE20091109_020949_000000372084_00089_40223_3087.N1	09-NOV-2009 02:09:49	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	40223	No
17	GOM_TRA_1PNPDE20091109_021359_000000382084_00089_40223_3088.N1	09-NOV-2009 02:13:59	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40223	No
18	GOM_TRA_1PNPDE20091109_021603_000000382084_00089_40223_3089.N1	09-NOV-2009 02:16:03	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40223	No
19	GOM_TRA_1PNPDE20091109_021942_000000422084_00089_40223_3090.N1	09-NOV-2009 02:19:42	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	40223	No
20	GOM_TRA_1PNPDE20091109_020557_000000562084_00100_40234_3112.N1	09-NOV-2009 20:25:57	Straylight	56.000	165	34Gam Eri	2.9500	3200.0	112	40234	No
21	GOM_TRA_1PNPDE20091109_0203145_000000482084_00100_40234_3113.N1	09-NOV-2009 20:31:45	Twilight_stray	48.000	94	92Alp Cet	2.5260	3100.0	96	40234	No
22	GOM_TRA_1PNPDE20091109_0203624_000000392084_00100_40234_3114.N1	09-NOV-2009 20:36:24	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40234	No
23	GOM_TRA_1PNPDE20091109_0204033_000000362084_00100_40234_3115.N1	09-NOV-2009 20:40:33	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40234	No
24	GOM_TRA_1PNPDE20091109_0204237_000000392084_00100_40234_3116.N1	09-NOV-2009 20:42:37	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40234	No
25	GOM_TRA_1PNPDE20091109_0204446_000000272084_00100_40234_3117.N1	09-NOV-2009 20:44:46	Twilight_stray	27.000	149	45Eps Per	2.8880	30000.	54	40234	No
26	GOM_TRA_1PNPDE20091109_0204613_000000432084_00100_40234_3118.N1	09-NOV-2009 20:46:13	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40234	No
27	GOM_TRA_1PNPDE20091109_0210338_000000432084_00100_40234_3119.N1	09-NOV-2009 21:03:38	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40234	No
28	GOM_TRA_1PNPDE20091109_0210516_000000392084_00100_40234_3120.N1	09-NOV-2009 21:05:16	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	40234	No
29	GOM_TRA_1PNPDE20091109_0210909_000000422084_00100_40234_3121.N1	09-NOV-2009 21:09:09	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	40234	No
30	GOM_TRA_1PNPDE20091109_0211711_000000442084_00100_40234_3122.N1	09-NOV-2009 21:17:11	Bright	44.000	96	68Del Leo	2.5600	9300.0	88	40234	No
31	GOM_TRA_1PNPDE20091109_0214436_000000482084_00101_40235_3117.N1	09-NOV-2009 21:44:36	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40235	No
32	GOM_TRA_1PNPDE20091109_0214937_000000512084_00101_40235_3118.N1	09-NOV-2009 21:49:37	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	40235	No
33	GOM_TRA_1PNPDE20091109_0220633_000000552084_00101_40235_3119.N1	09-NOV-2009 22:06:33	Straylight	54.500	165	34Gam Eri	2.9500	3200.0	109	40235	No
34	GOM_TRA_1PNPDE20091109_0221221_000000492084_00101_40235_3120.N1	09-NOV-2009 22:12:21	Twilight_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40235	No
35	GOM_TRA_1PNPDE20091109_0221700_000000362084_00101_40235_3121.N1	09-NOV-2009 22:17:00	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	40235	No
36	GOM_TRA_1PNPDE20091109_0222109_000000362084_00101_40235_3122.N1	09-NOV-2009 22:21:09	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40235	No
37	GOM_TRA_1PNPDE20091109_0222312_000000352084_00101_40235_3123.N1	09-NOV-2009 22:23:12	Bright	35.000	73	57Gam1And	2.2600	13100.	70	40235	No
38	GOM_TRA_1PNPDE20091109_0222521_000000272084_00101_40235_3124.N1	09-NOV-2009 22:25:21	Twilight_stray	27.000	149	45Eps Per	2.8880	30000.	54	40235	No
39	GOM_TRA_1PNPDE20091109_0222648_000000412084_00101_40235_3125.N1	09-NOV-2009 22:26:48	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40235	No
40	GOM_TRA_1PNPDE20091109_0224414_000000432084_00101_40235_3126.N1	09-NOV-2009 22:44:14	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40235	No
41	GOM_TRA_1PNPDE20091109_0224552_000000422084_00101_40235_3127.N1	09-NOV-2009 22:45:52	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	40235	No
42	GOM_TRA_1PNPDE20091109_0224945_000000452084_00101_40235_3128.N1	09-NOV-2009 22:49:45	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	40235	No
43	GOM_TRA_1PNPDE20091109_0225748_000000432084_00101_40235_3129.N1	09-NOV-2009 22:57:48	Bright	42.500	96	68Del Leo	2.5600	9300.0	85	40235	No

44	GOM_TRA_1PNPDE20091109_232513_000000482084_00102_40236_3122.N1	09-NOV-2009 23:25:13	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40236	No
45	GOM_TRA_1PNPDE20091109_233014_000000462084_00102_40236_3123.N1	09-NOV-2009 23:30:14	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40236	No
46	GOM_TRA_1PNPDE20091109_234709_000000552084_00102_40236_3124.N1	09-NOV-2009 23:47:09	Straylight	54.500	165	34Gam Eri	2.9500	3200.0	109	40236	No
47	GOM_TRA_1PNPDE20091109_235256_000000502084_00102_40236_3125.N1	09-NOV-2009 23:52:56	Twilight_stray	49.500	94	92Alp Cet	2.5260	3100.0	99	40236	No
48	GOM_TRA_1PNPDE20091109_235736_000000392084_00102_40236_3126.N1	09-NOV-2009 23:57:36	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40236	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.

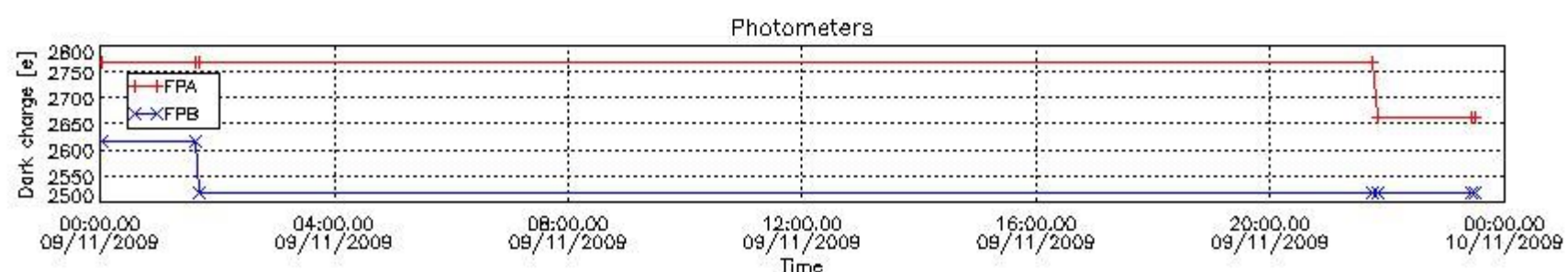
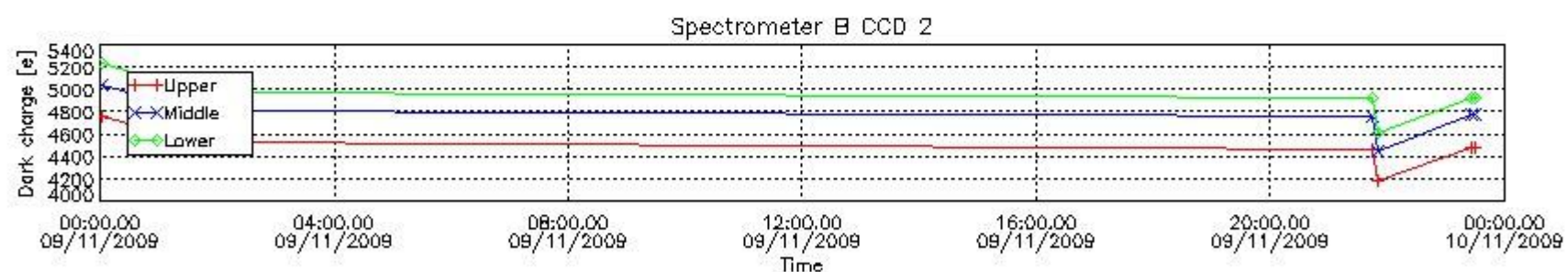
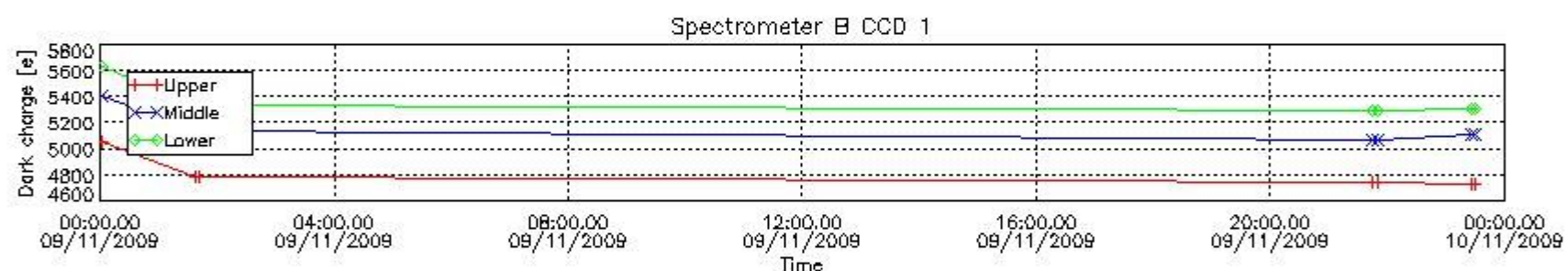
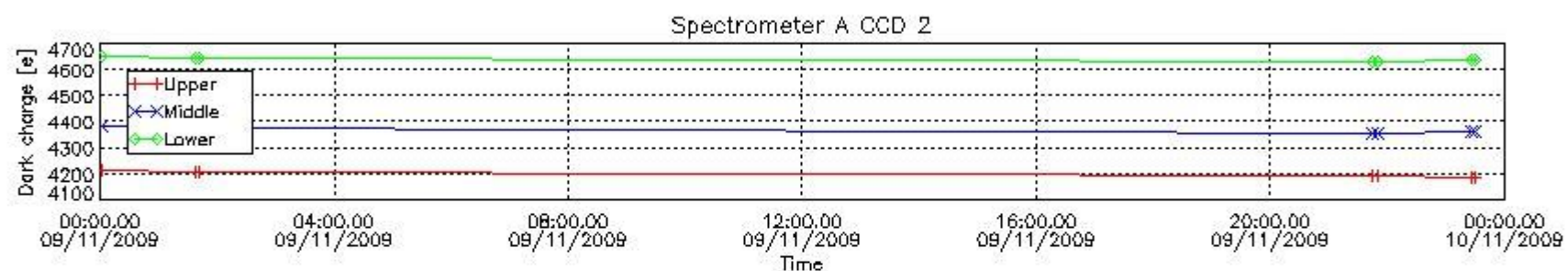
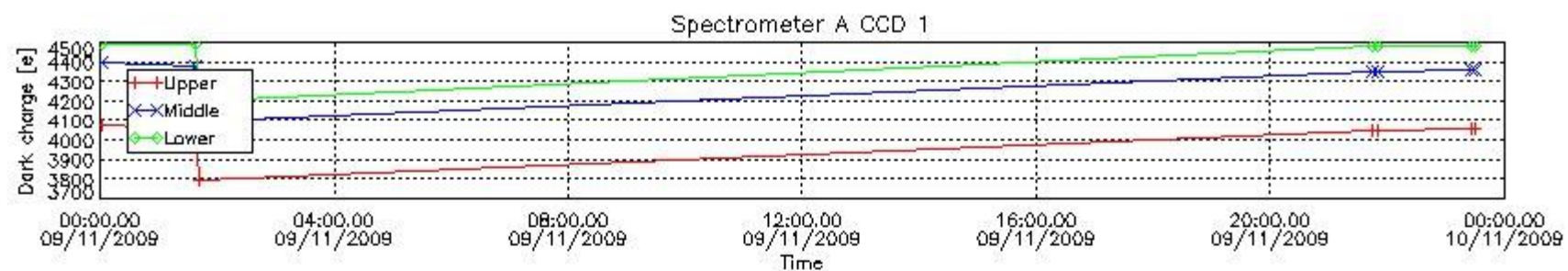
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091109_202557_000000562084_00100_40234_3112.N1	DC map used
GOM_TRA_1PNPDE20091109_203145_000000482084_00100_40234_3113.N1	DC map used
GOM_TRA_1PNPDE20091109_203624_000000392084_00100_40234_3114.N1	DC map used
GOM_TRA_1PNPDE20091109_204033_000000362084_00100_40234_3115.N1	DC map used
GOM_TRA_1PNPDE20091109_204237_000000392084_00100_40234_3116.N1	DC map used



GOM_TRA_1PNPDE20091109_204446_000000272084_00100_40234_3117.N1	DC map used
GOM_TRA_1PNPDE20091109_204613_000000432084_00100_40234_3118.N1	DC map used
GOM_TRA_1PNPDE20091109_210338_000000432084_00100_40234_3119.N1	DC map used
GOM_TRA_1PNPDE20091109_210516_000000392084_00100_40234_3120.N1	DC map used
GOM_TRA_1PNPDE20091109_210909_000000422084_00100_40234_3121.N1	DC map used
GOM_TRA_1PNPDE20091109_211711_000000442084_00100_40234_3122.N1	DC map used

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



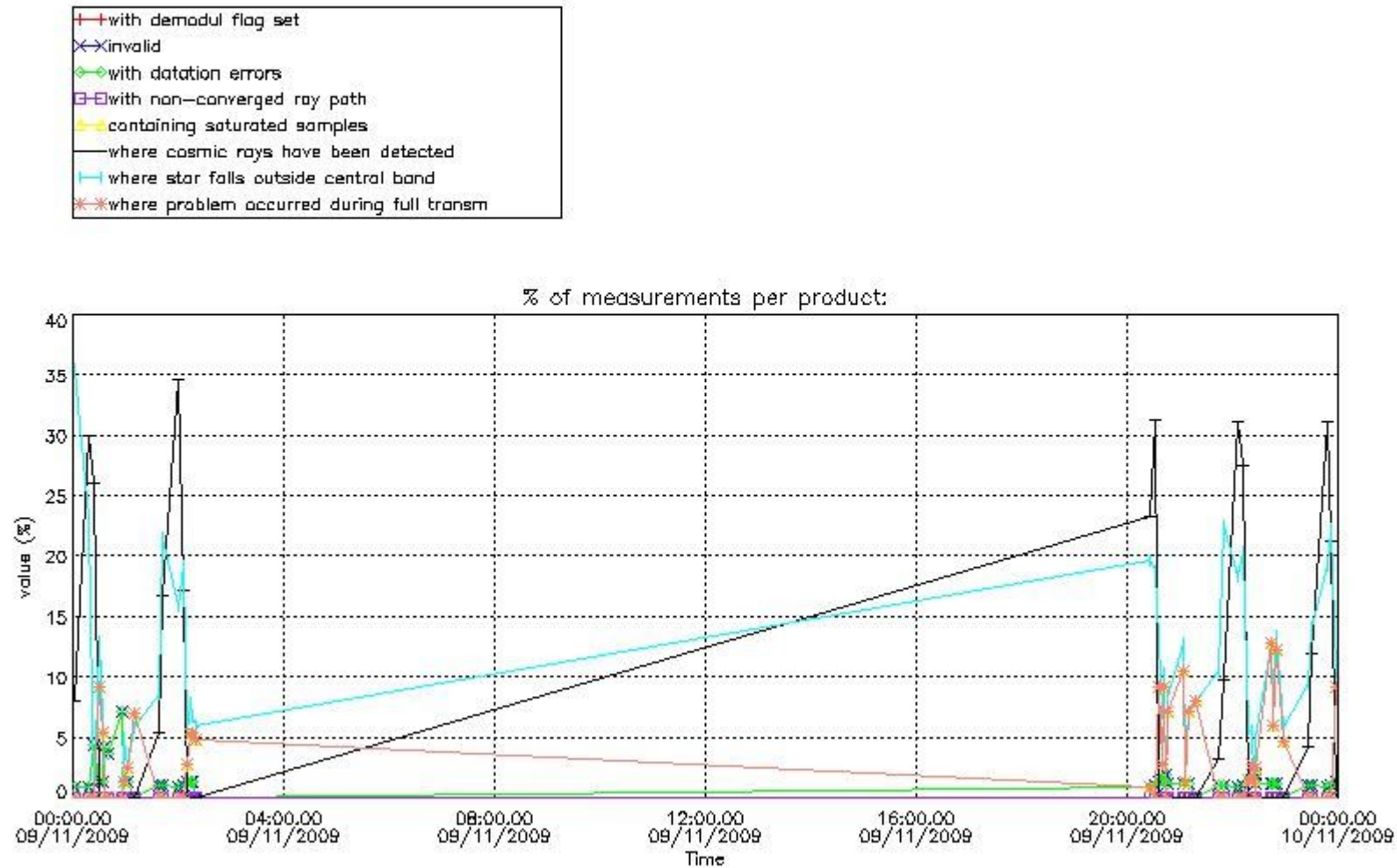
## 5. Demodulation flag and quality information monitoring

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:

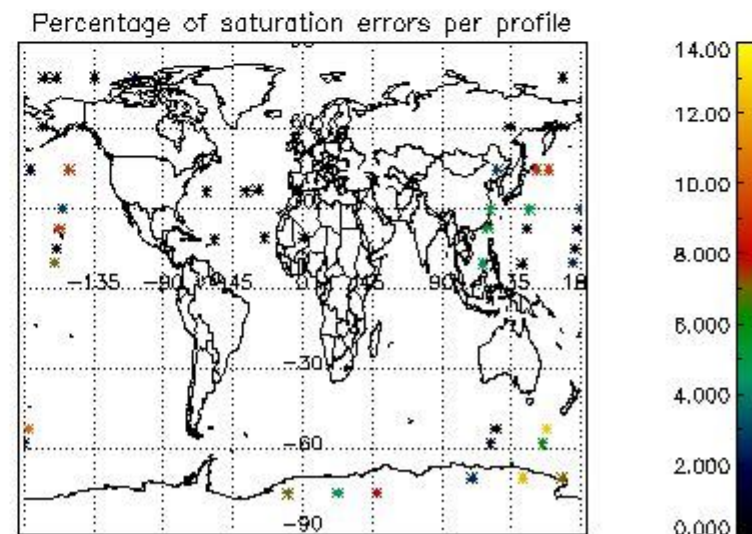
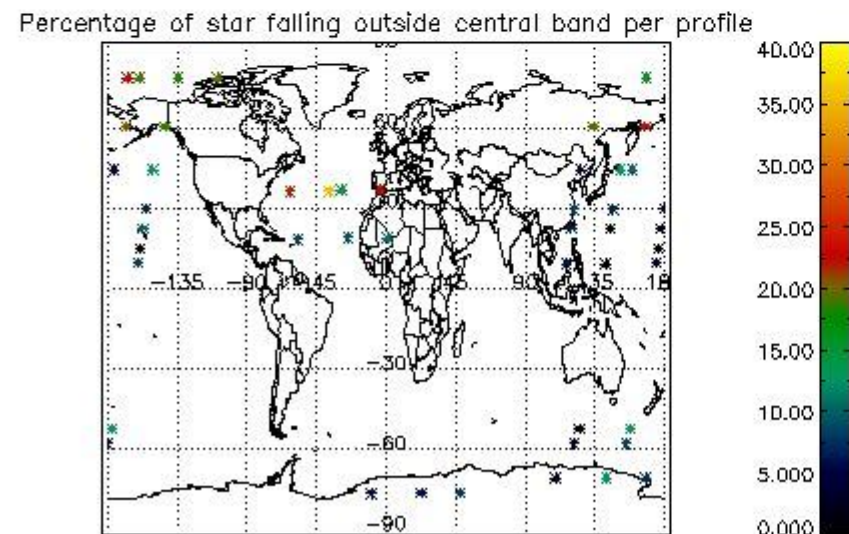
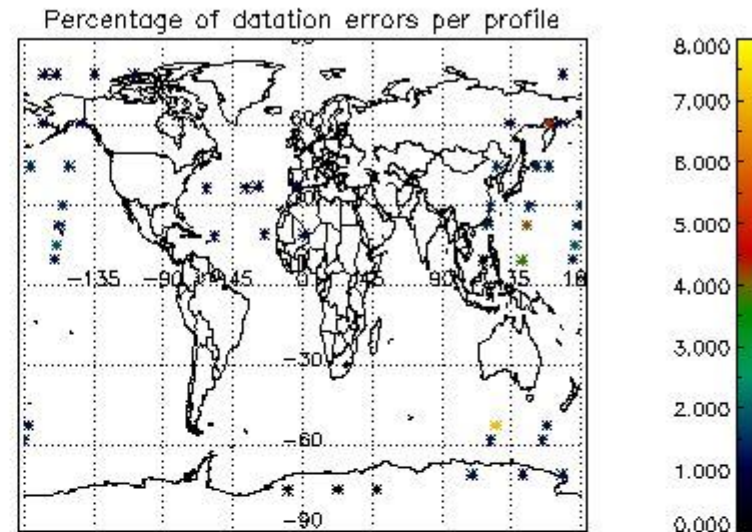
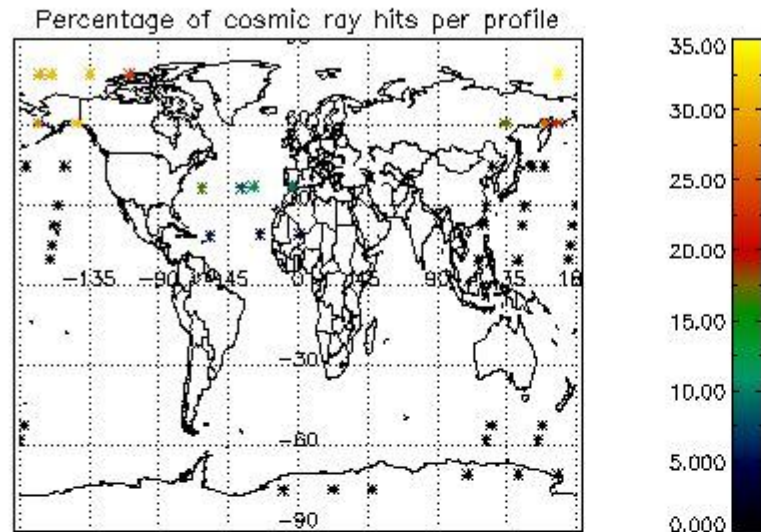
At least one measurement with demodulation flag set:	29.1667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





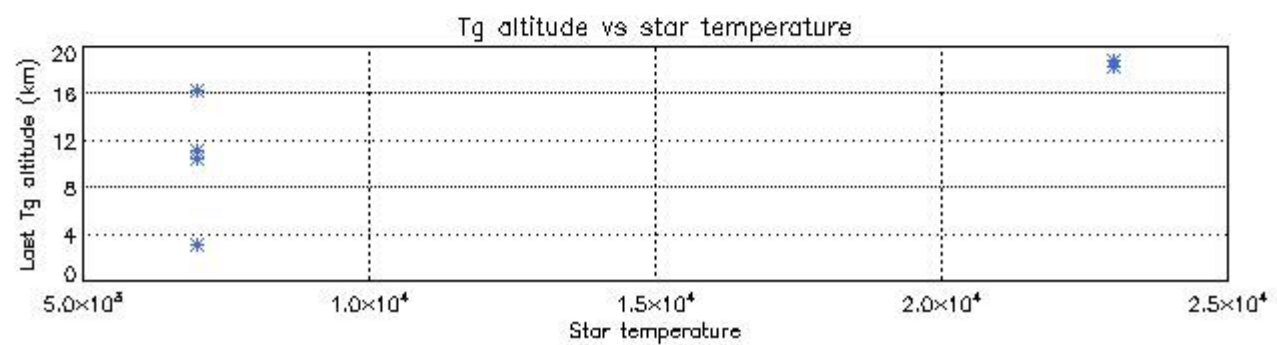
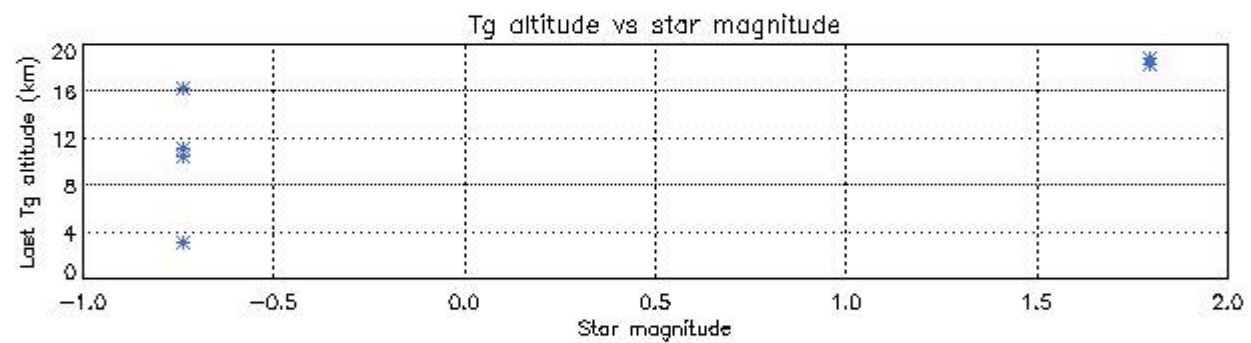
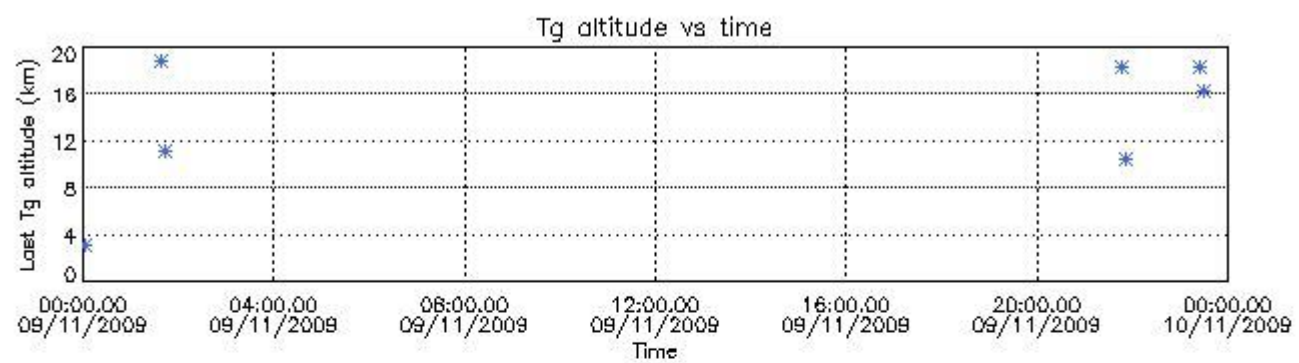
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.741	19.843	NaN
St. deviation:	5.8659	2.5667	NaN
Maximum:	18.826	24.736	NaN
Minimum:	3.0120	15.678	NaN
Number of data:	7.0000	26.000	NaN

### 6.2 Plot for DARK limb products

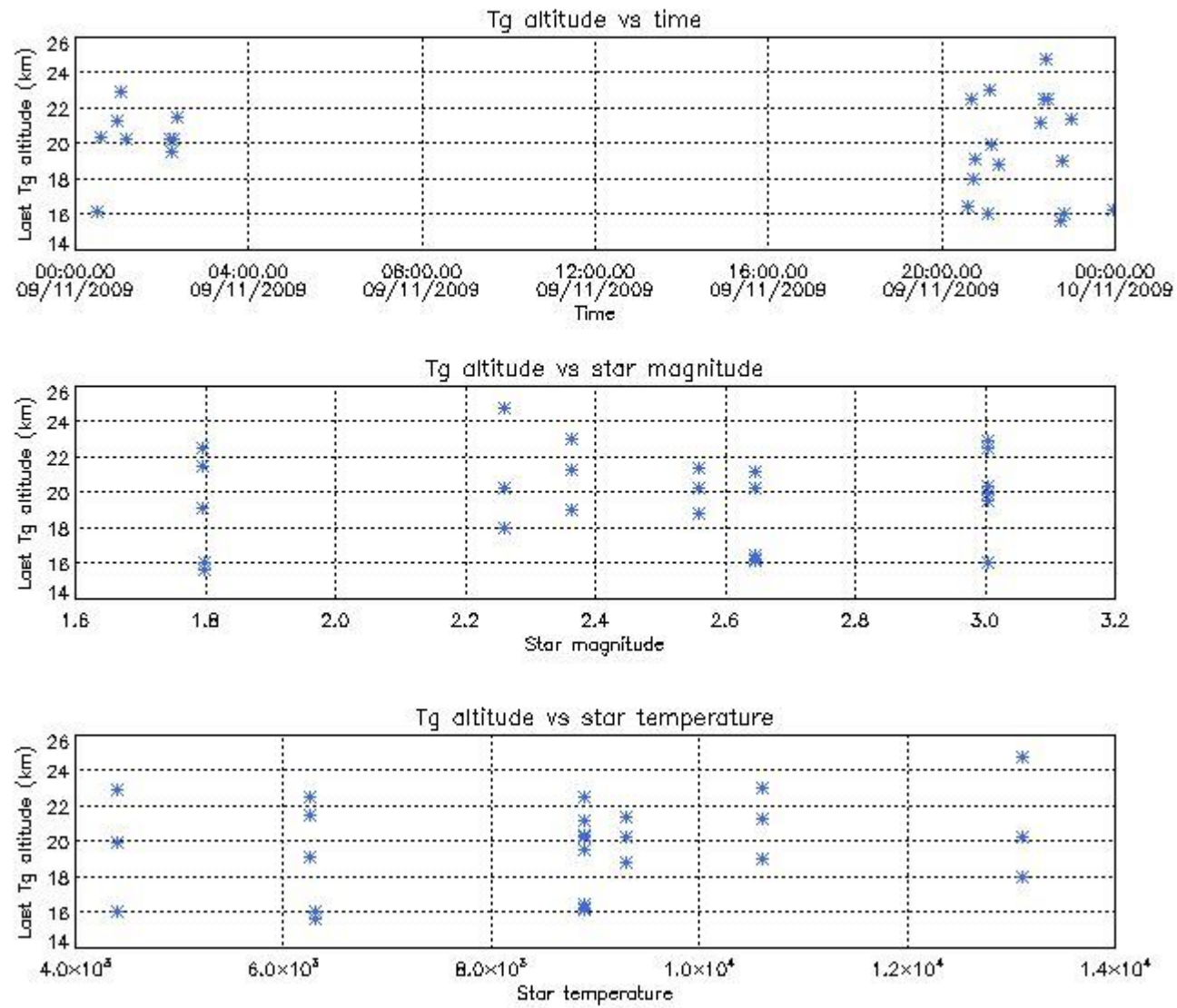
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

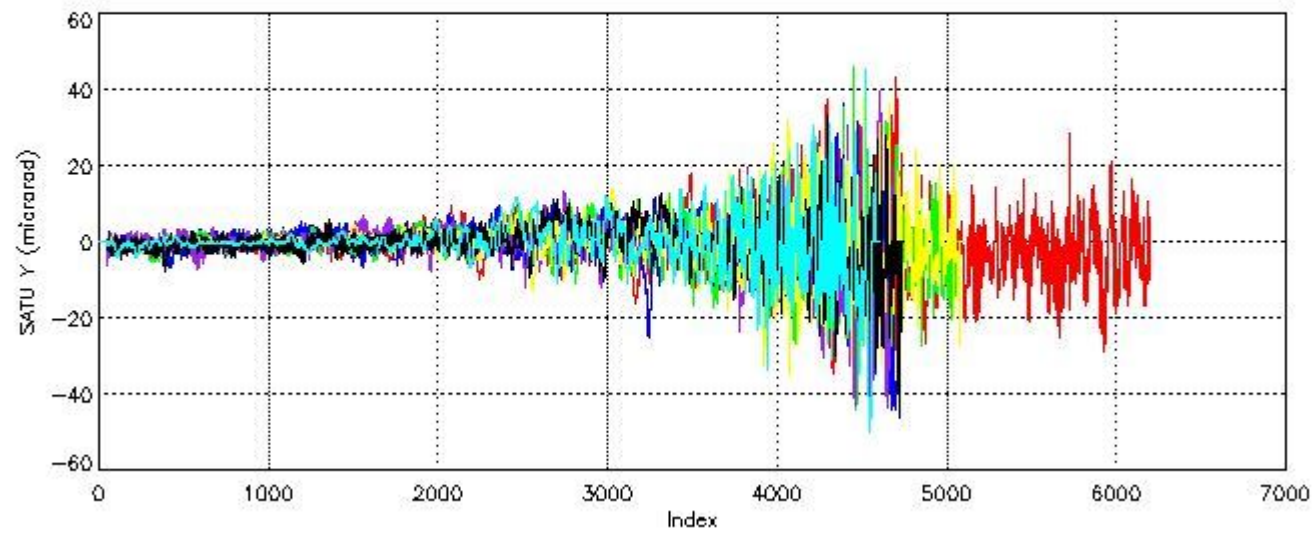
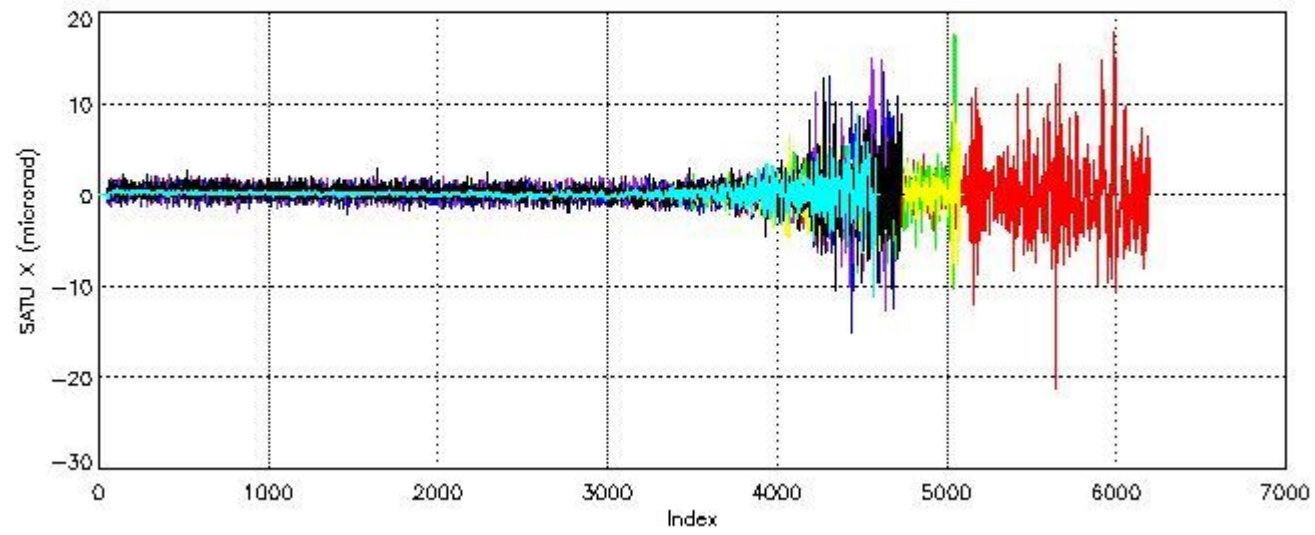


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26007	-0.61249	0.12560	-0.35674
St. deviation:	0.32308	1.4191	0.93553	3.1266
Maximum:	2.6000	3.7000	6.1000	14.300
Minimum:	-1.9000	-7.8000	-6.3000	-48.000

Number of data:	7400.0	7400.0	23450.	23450.
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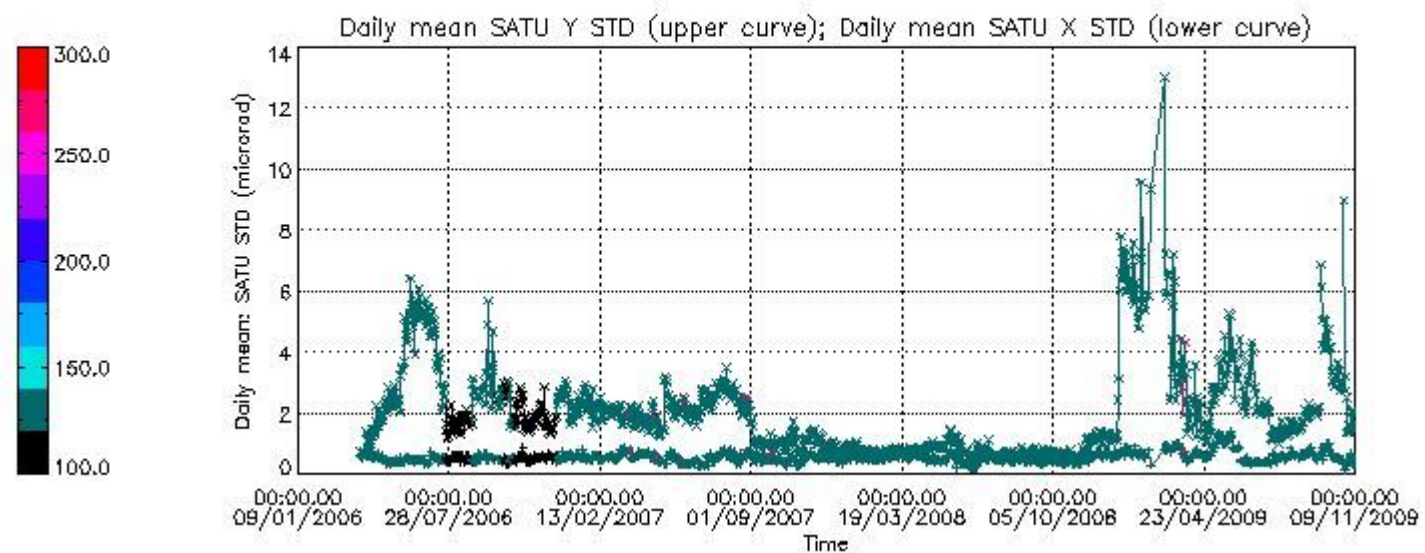
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

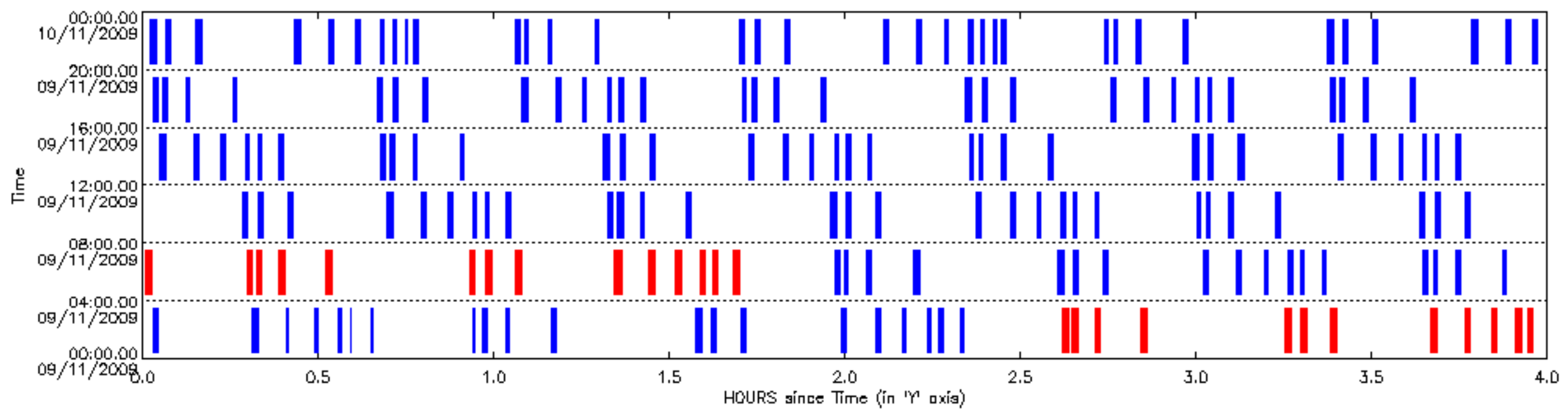


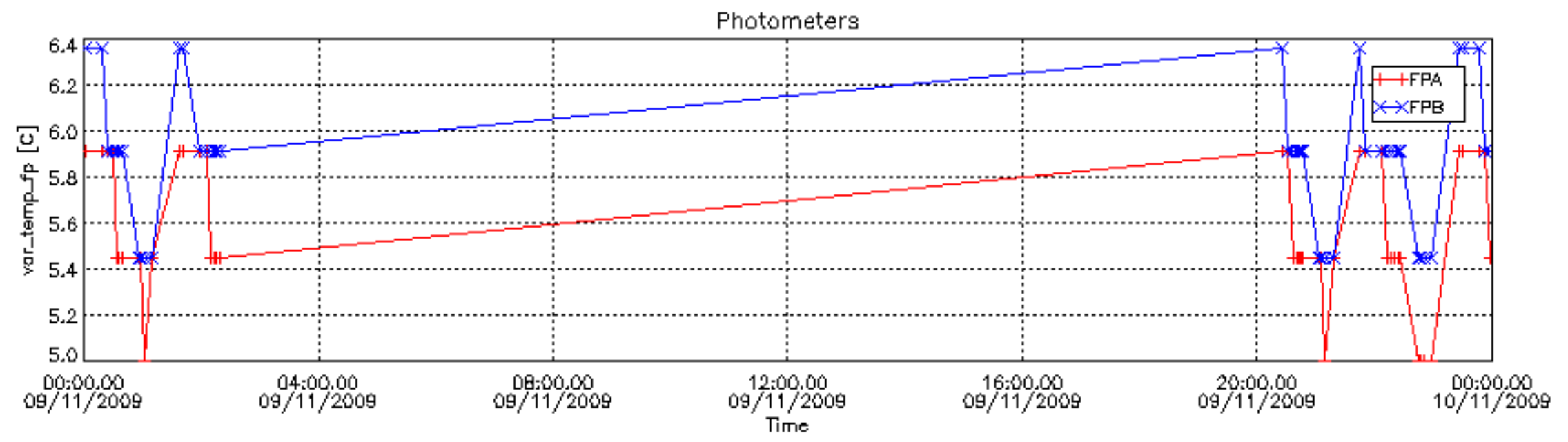
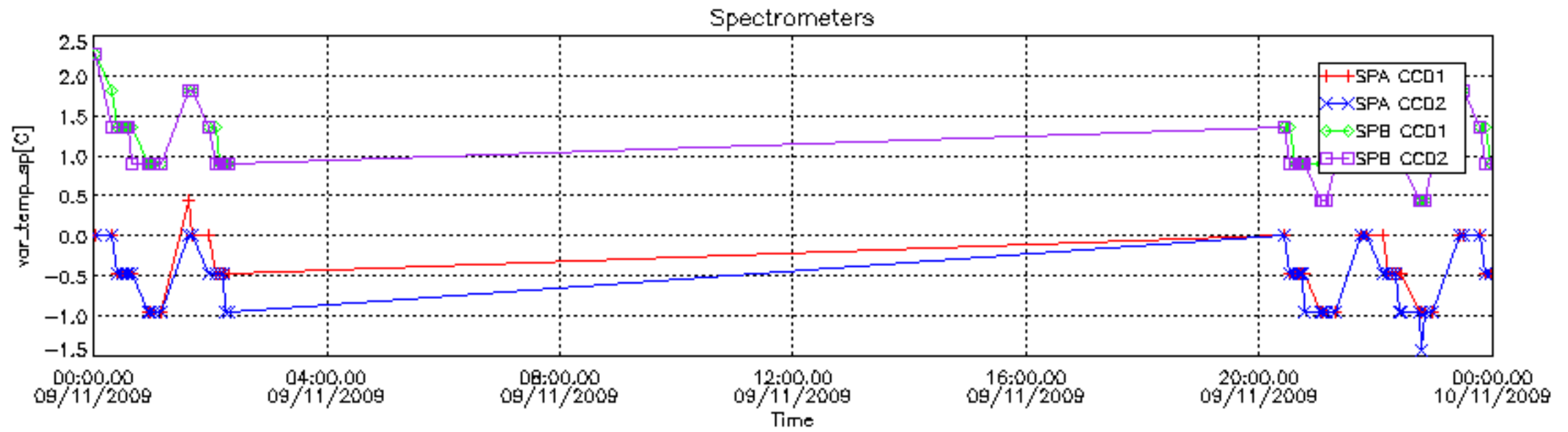
### 8. Auxiliary Data Files used for the production reported in section 2.4

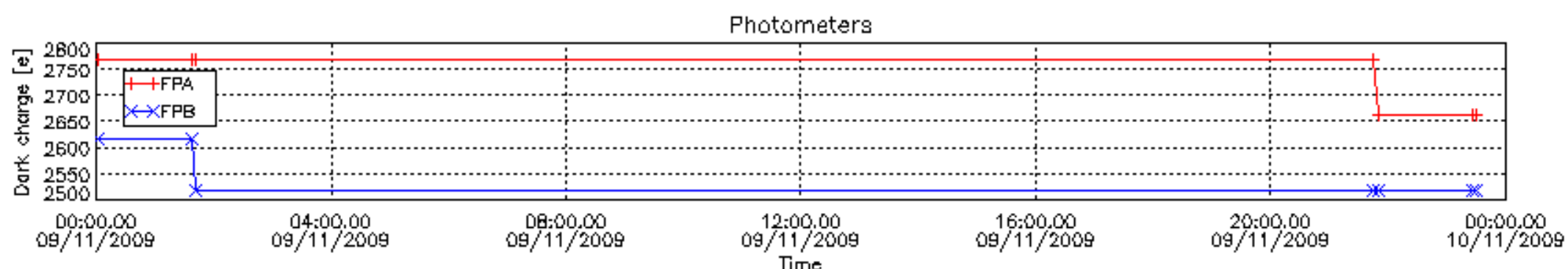
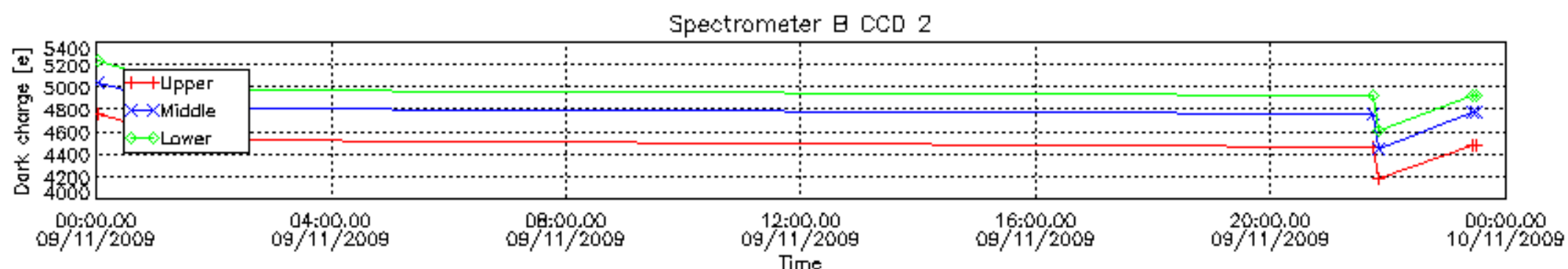
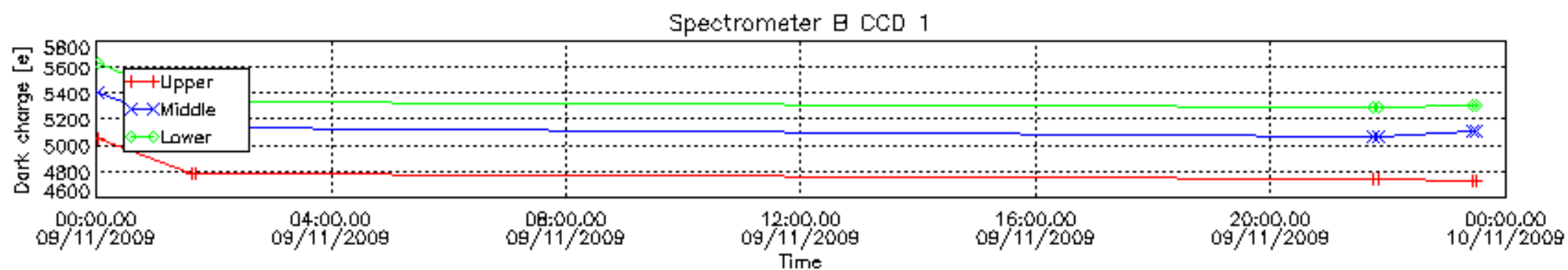
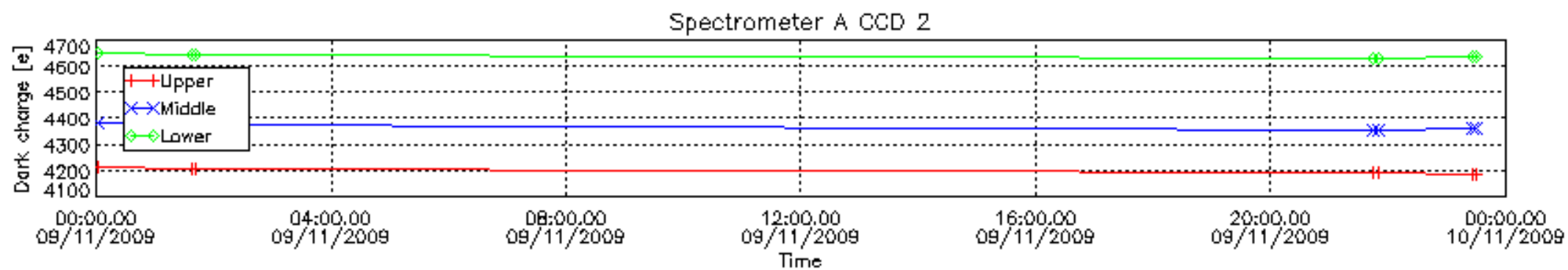
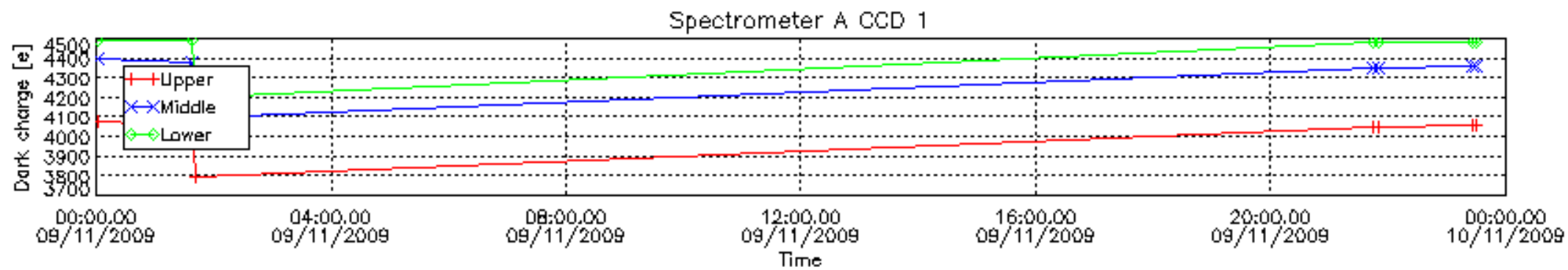
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-NOV-2009 00:01:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	09-NOV-2009 00:01:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-NOV-2009 00:01:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-NOV-2009 00:01:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-NOV-2009 00:01:40
ECMWF_FILE	AUX_ECF_AXNECM20091108_064111_20091108_210000_20091109_090000	1	09-NOV-2009 00:01:40
ECMWF_FILE	AUX_ECF_AXNECM20091109_064112_20091109_150000_20091110_030000	20	09-NOV-2009 20:25:57
ECMWF_FILE	AUX_ECF_AXNECM20091109_064112_20091109_210000_20091110_090000	31	09-NOV-2009 21:44:36
OPTIONAL_ECMWF_FILE	MISSING	1	09-NOV-2009 00:01:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091108_233702_000057382084_00087_40221_9130.N1	1	09-NOV-2009 00:01:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091109_011759_000041442084_00088_40222_9131.N1	12	09-NOV-2009 01:37:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091109_200941_000041442084_00100_40234_9132.N1	20	09-NOV-2009 20:25:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091109_212404_000057382084_00100_40234_9133.N1	31	09-NOV-2009 21:44:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091109_230501_000057382084_00101_40235_9134.N1	44	09-NOV-2009 23:25:13

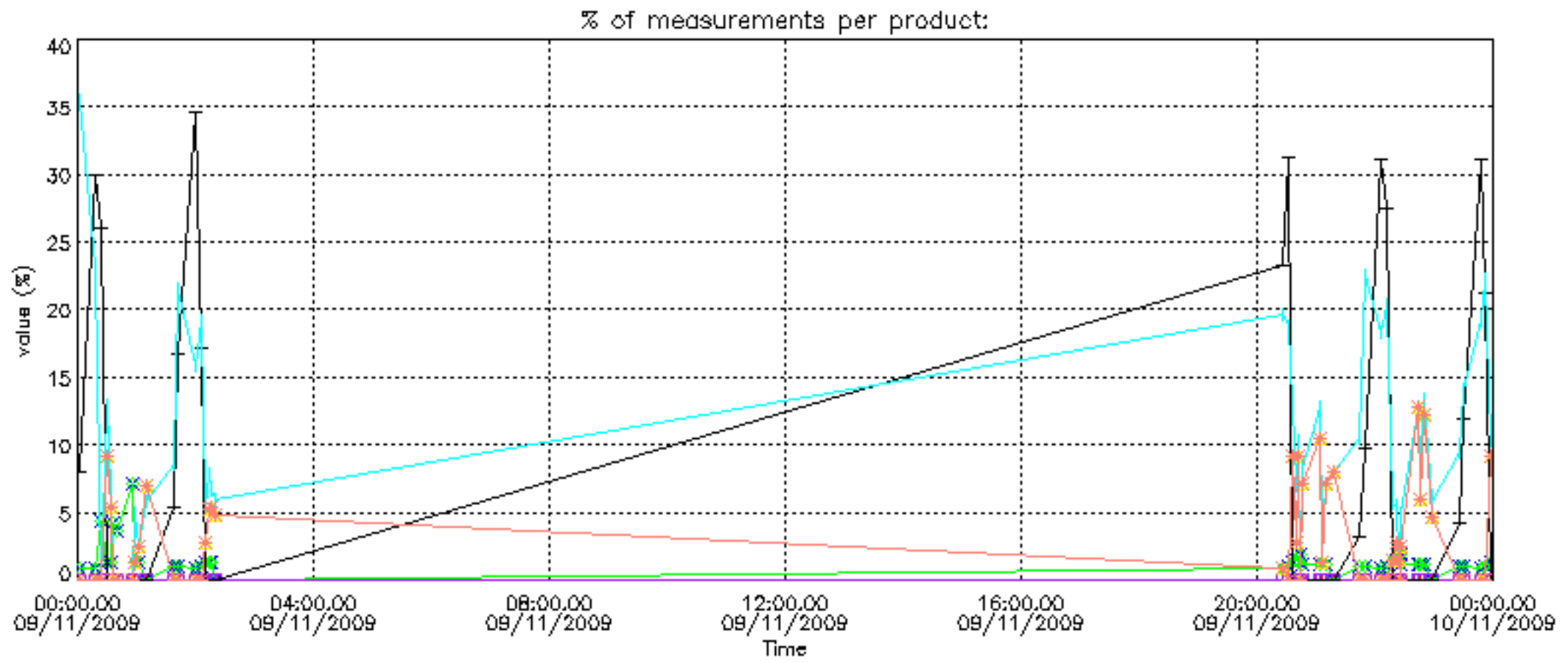




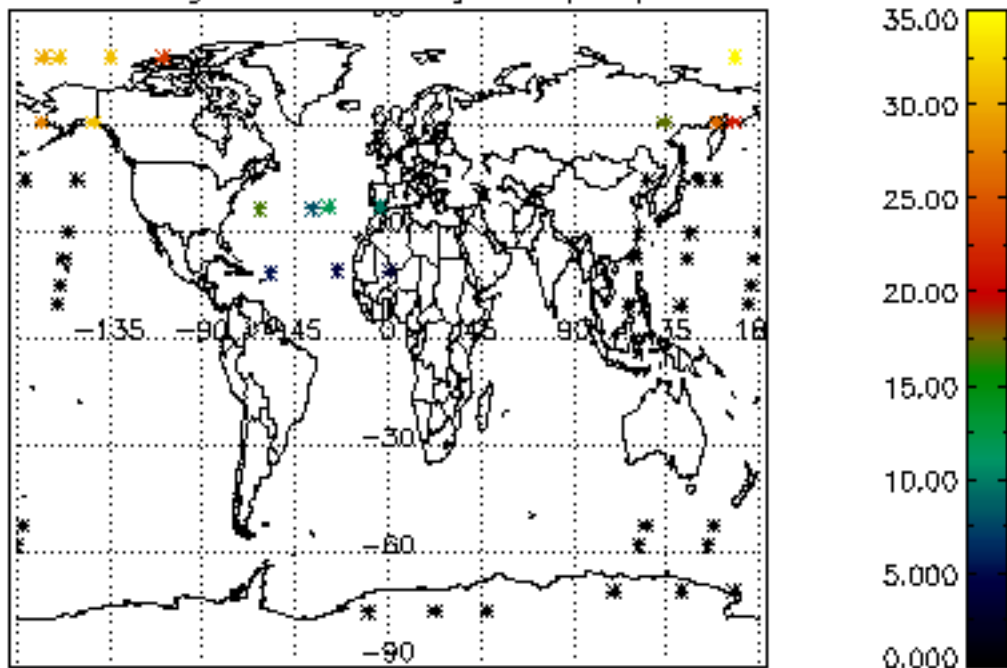




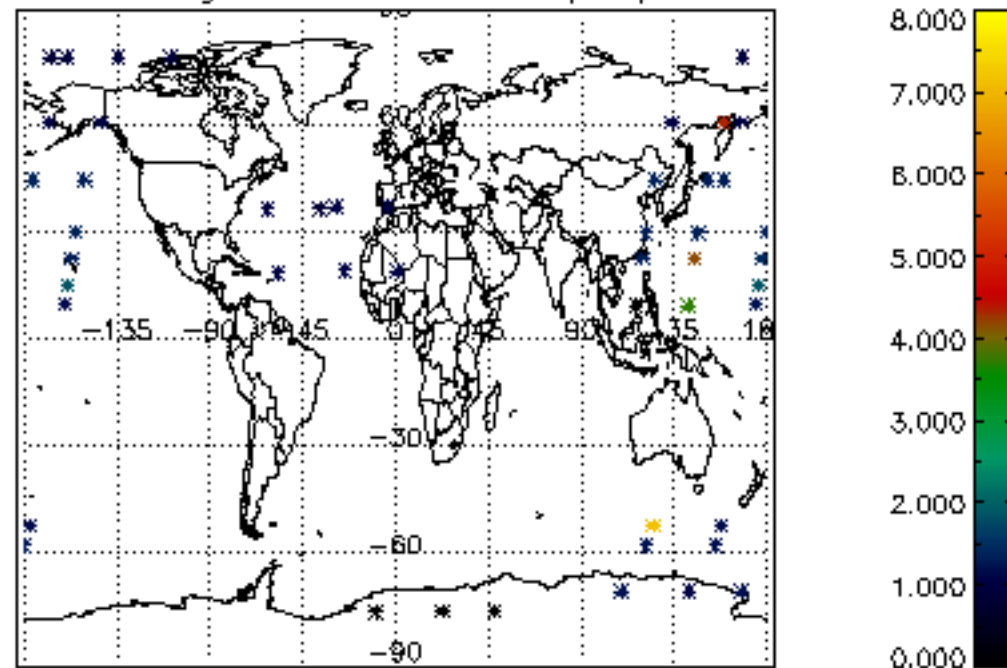




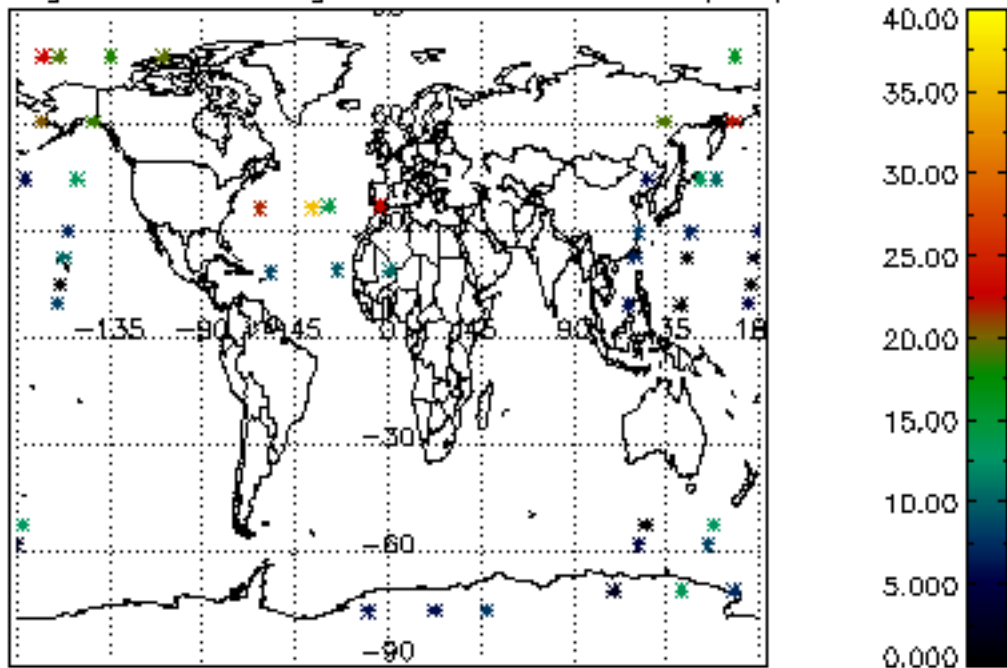
Percentage of cosmic ray hits per profile



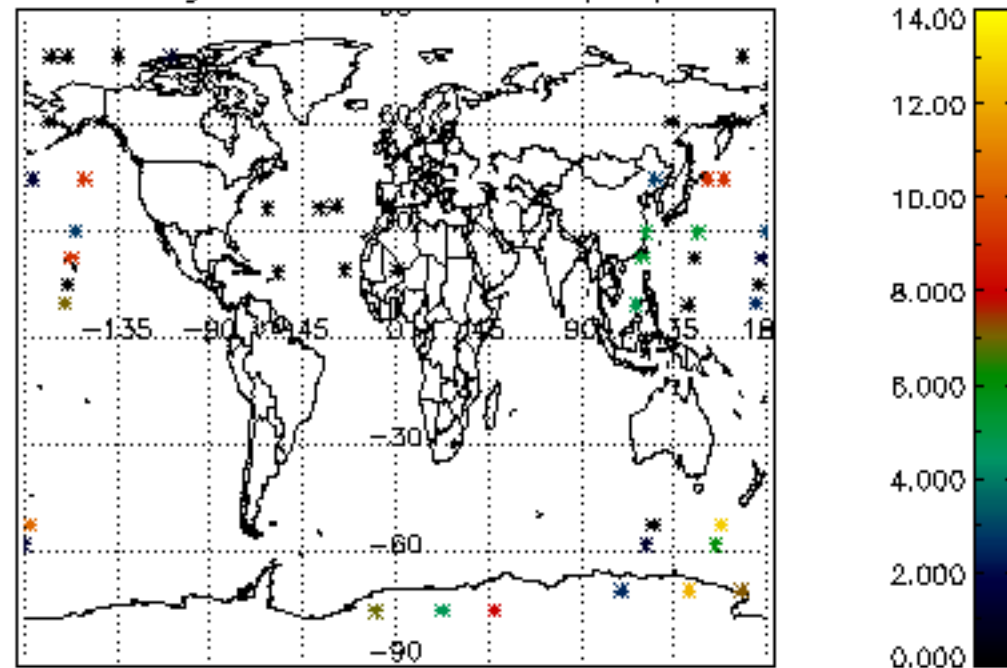
Percentage of datation errors per profile



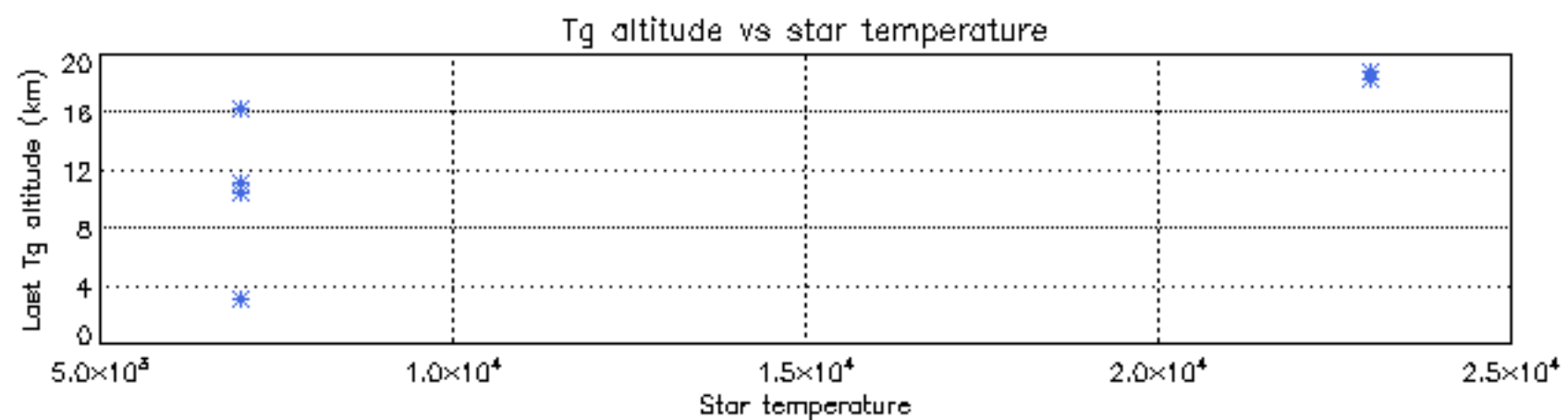
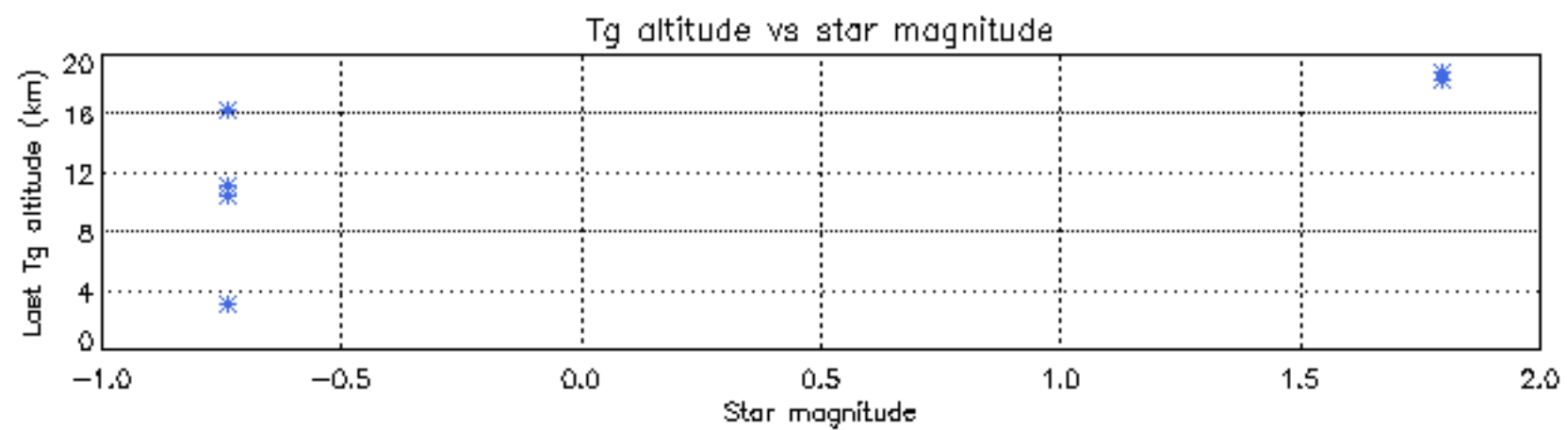
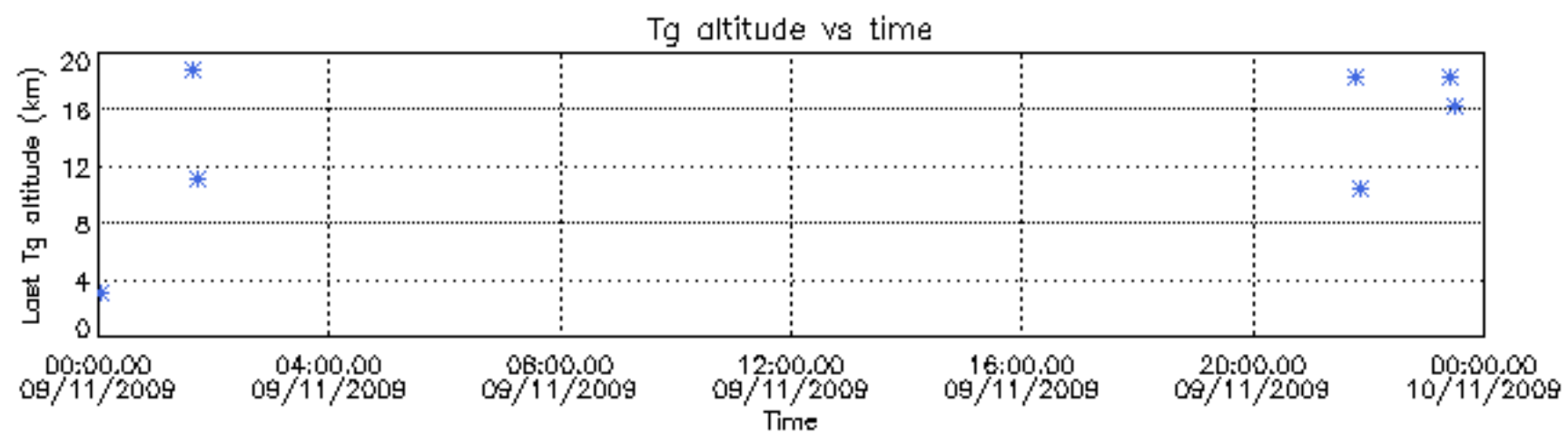
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

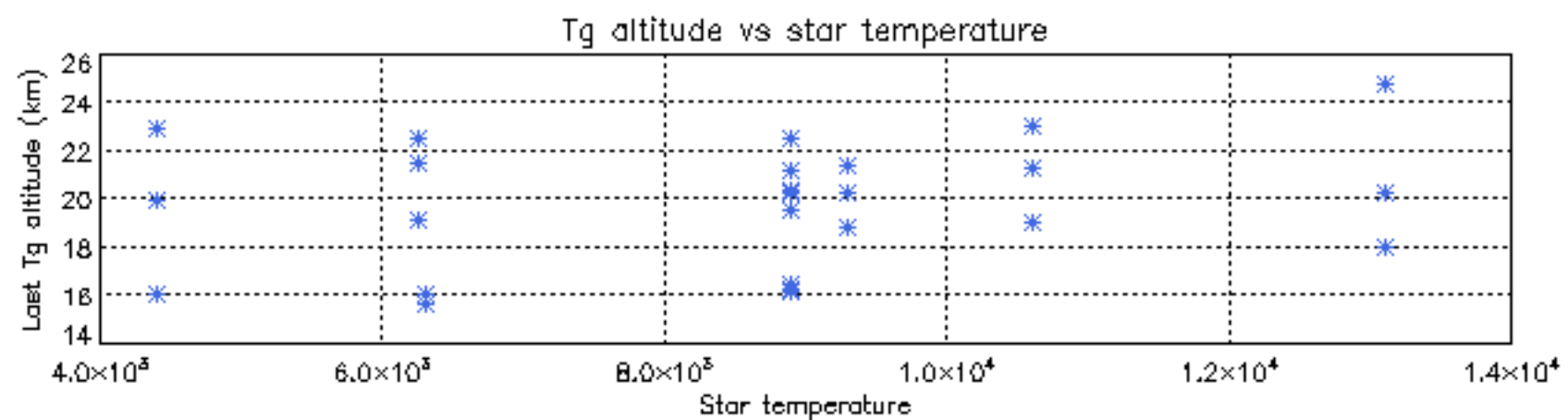
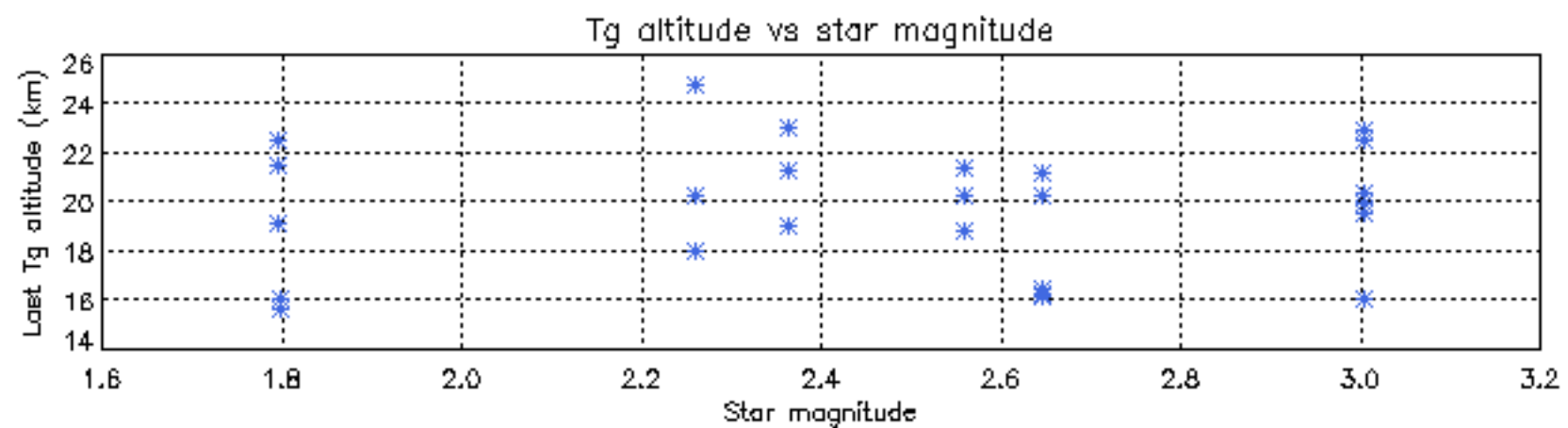
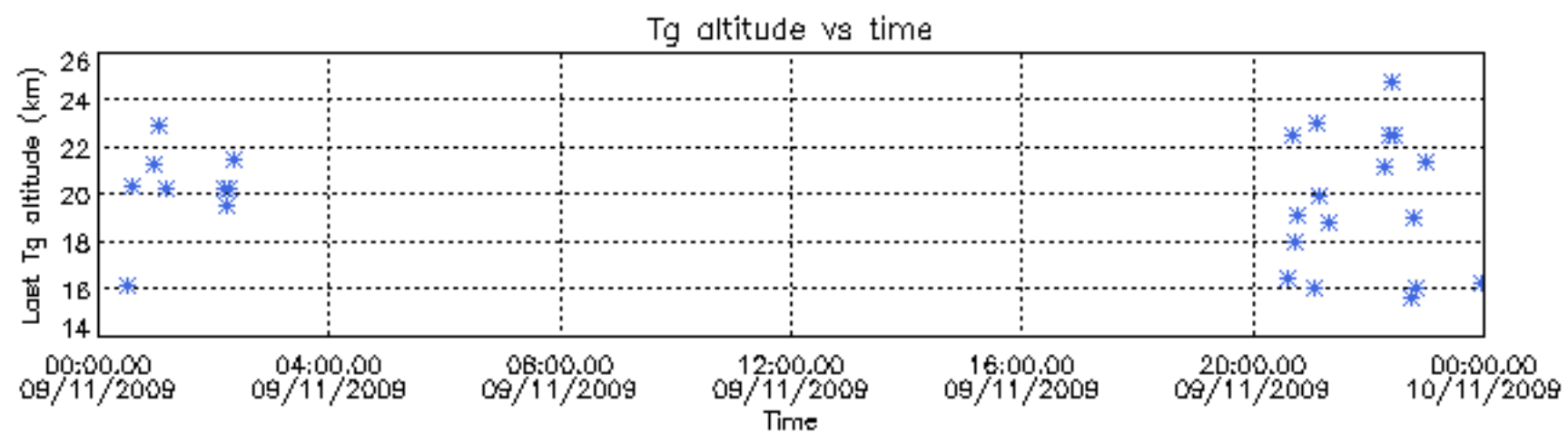


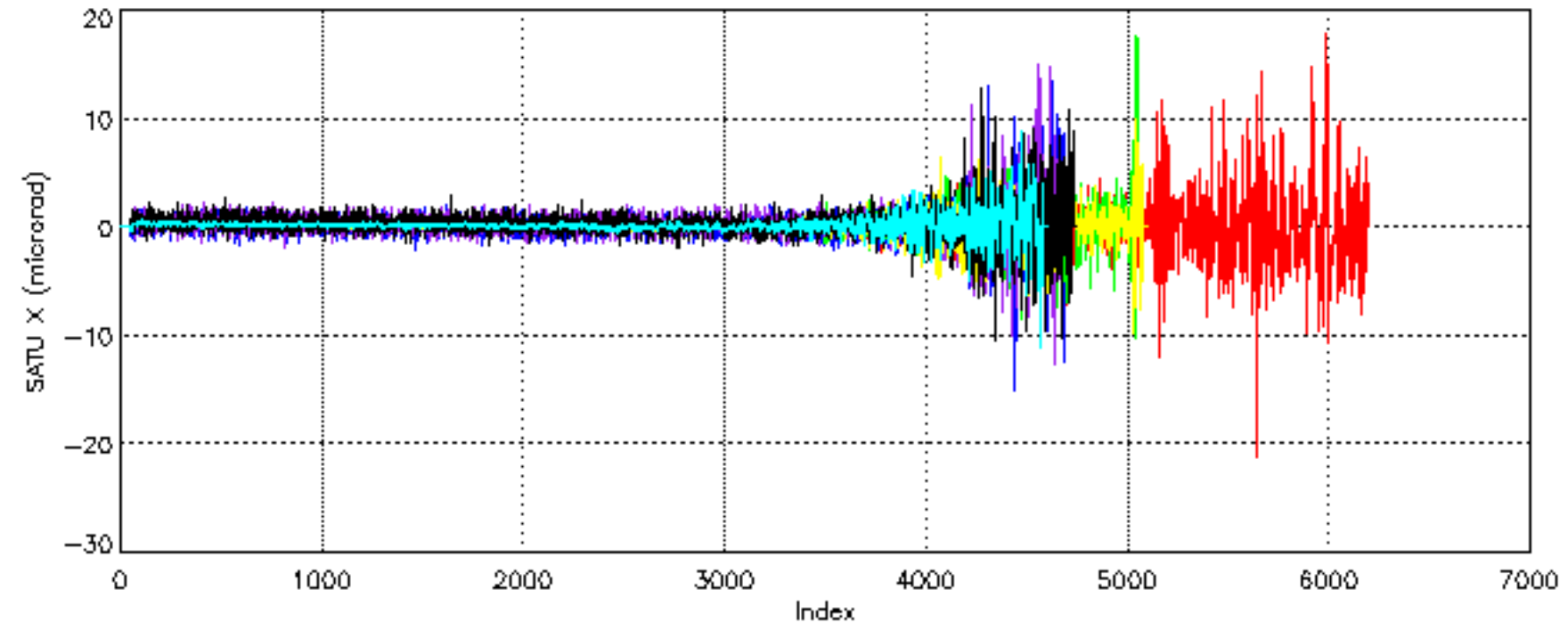
Tangent altitude at which the star is lost

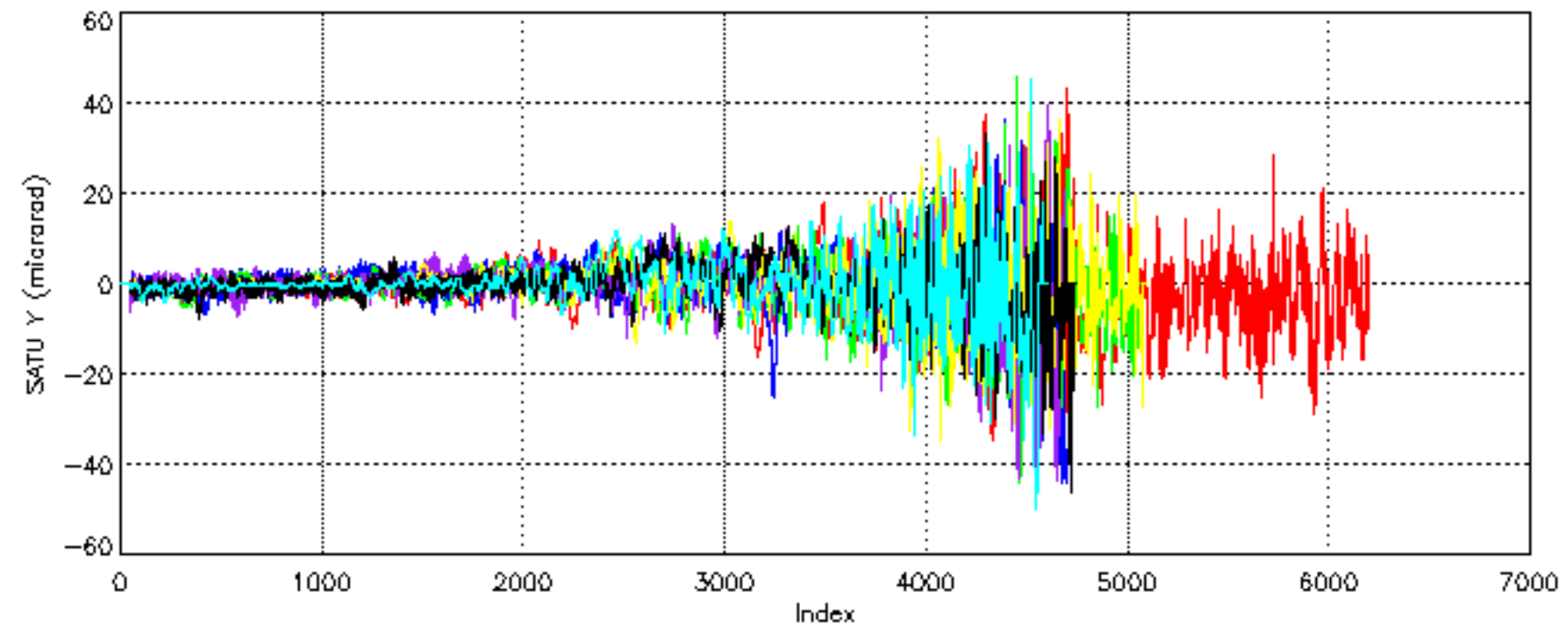




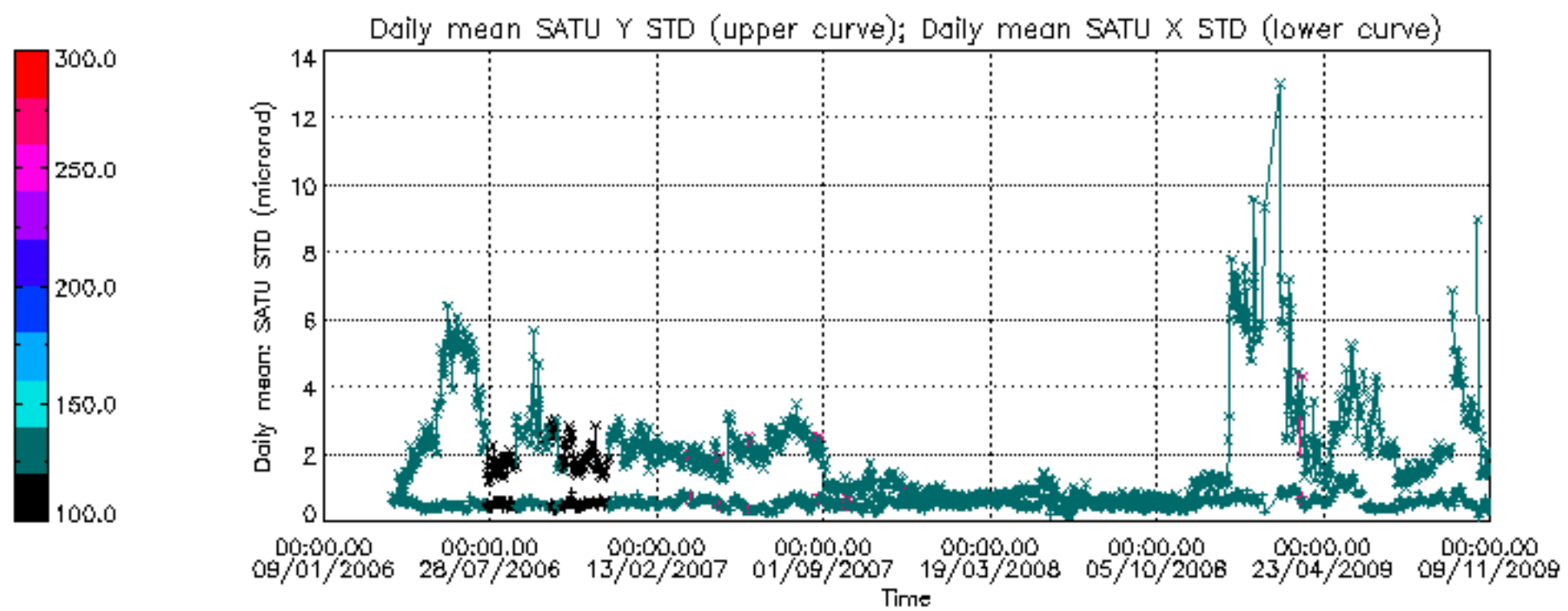
Tangent altitude at which the star is lost











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 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108  
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108  
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108  
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108  
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108  
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108  
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108  
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 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108  
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108  
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108  
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 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108  
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108  
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

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 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109  
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109  
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109  
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109  
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109  
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109  
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109  
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109  
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109  
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109  
 13; 3912.0; 01-NOV-2009 03:29:03; Bright; 16.0; 36; 50Alp UMa ; 1.80; 6300;occ; 32; 0;40109

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 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109  
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 7; -17.4; 01-NOV-2009 04:04:09; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40109  
 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110  
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110  
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 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110  
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 11; 912.1; 01-NOV-2009 06:00:15; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40111  
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 14; 2538.0; 01-NOV-2009 06:27:21; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40111  
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 3; 2271.6; 01-NOV-2009 21:28:18; Bright; 39.0; 105; 6Bet Ari ; 2.64; 8900;occ; 78; 0;40120

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6; 2928.5; 01-NOV-2009 21:39:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40120
7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
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9; 4229.7; 01-NOV-2009 22:00:56; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;40120
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9; 2657.3; 01-NOV-2009 23:15:19; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;40121
10; 2928.1; 01-NOV-2009 23:19:50; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40121
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13; 4229.7; 01-NOV-2009 23:41:32; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;40121
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6; -528.2; 01-NOV-2009 07:16:50; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;40111
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17; 7003.2; 05-NOV-2009 08:56:29; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;40169
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13; 6072.8; 05-NOV-2009 10:21:35; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;40170
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 8; 4002.6; 05-NOV-2009 11:27:41; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;40171

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 13; 6073.7; 05-NOV-2009 12:02:12; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;40171  
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 11; 4983.1; 05-NOV-2009 13:24:37; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40172  
 12; 6074.7; 05-NOV-2009 13:42:49; Dark ; 62.0; 65; Lam Vel ; 2.20; 4400;occ; 124; 0;40172  
 13; 6216.4; 05-NOV-2009 13:45:10; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40172  
 14; 6314.4; 05-NOV-2009 13:46:48; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40172  
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 5; 2645.4; 05-NOV-2009 14:26:15; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40173  
 6; 2814.8; 05-NOV-2009 14:29:05; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40173  
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 15; 6445.8; 05-NOV-2009 15:29:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40173  
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 12; 4831.4; 19-NOV-2009 09:20:38; Bright; 45.5; 62; 94Bet Leo ; 2.14; 9700;occ; 91; 0;40370  
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 17; 6301.3; 19-NOV-2009 09:45:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40370  
 18; 6416.6; 19-NOV-2009 09:47:04; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;40370  
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 20; 6747.0; 19-NOV-2009 09:52:34; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;40370  
 21; 7147.4; 19-NOV-2009 09:59:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;40370  
 22; 7679.6; 19-NOV-2009 10:08:07; Dark ; 50.0; 165; 34Gam Eri ; 2.95; 3200;occ; 100; 0;40370

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 4; 2528.0; 19-NOV-2009 10:22:51; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40371  
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 7; 3869.5; 19-NOV-2009 10:45:12; Bright; 60.0; 36; 50Alp UMa ; 1.80; 6300;occ; 120; 0;40371  
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 9; 4051.7; 19-NOV-2009 10:48:15; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;40371  
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 13; 5041.9; 19-NOV-2009 11:04:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;40371  
 14; 5352.1; 19-NOV-2009 11:09:55; Dark ; 45.0; 100; 4Gam Crv ; 2.58; 13100;occ; 90; 0;40371  
 15; 5444.0; 19-NOV-2009 11:11:27; Dark ; 48.0; 171; 2Eps Crv ; 3.00; 4250;occ; 96; 0;40371  
 16; 6004.8; 19-NOV-2009 11:20:48; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40371  
 17; 6302.1; 19-NOV-2009 11:25:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40371  
 18; 6417.0; 19-NOV-2009 11:27:40; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;40371  
 19; 6559.5; 19-NOV-2009 11:30:02; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40371  
 20; 6747.3; 19-NOV-2009 11:33:10; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;40371  
 21; 7147.9; 19-NOV-2009 11:39:51; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40371

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 3; 2373.1; 19-NOV-2009 12:00:52; Bright; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;40372  
 4; 2527.7; 19-NOV-2009 12:03:26; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40372  
 5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372  
 6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372  
 7; 3869.2; 19-NOV-2009 12:25:48; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40372  
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 11; 4334.9; 19-NOV-2009 12:33:34; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;40372  
 12; 4832.4; 19-NOV-2009 12:41:51; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40372  
 13; 5042.1; 19-NOV-2009 12:45:21; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40372  
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 16; 6005.6; 19-NOV-2009 13:01:24; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;40372  
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 19; 6560.7; 19-NOV-2009 13:10:39; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40372  
 20; 6748.2; 19-NOV-2009 13:13:47; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;40372  
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 3; 2373.0; 19-NOV-2009 13:41:28; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40373  
 4; 2527.3; 19-NOV-2009 13:44:02; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40373  
 5; 2628.8; 19-NOV-2009 13:45:43; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40373  
 6; 2797.2; 19-NOV-2009 13:48:32; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;40373  
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 10; 4217.0; 19-NOV-2009 14:12:12; Bright; 47.5; 174; 52Psi UMA ; 3.00; 4400;occ; 95; 0;40373  
 11; 4335.0; 19-NOV-2009 14:14:10; Bright; 54.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 108; 0;40373  
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 13; 5042.9; 19-NOV-2009 14:25:58; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40373  
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 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373  
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 3; 2372.4; 19-NOV-2009 15:22:03; Bright; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;40374  
 4; 2526.7; 19-NOV-2009 15:24:37; Bright; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;40374  
 5; 2628.3; 19-NOV-2009 15:26:19; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40374  
 6; 2785.7; 19-NOV-2009 15:28:56; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40374  
 7; 3868.8; 19-NOV-2009 15:46:59; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;40374  
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 11; 4335.2; 19-NOV-2009 15:54:46; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40374  
 12; 4833.3; 19-NOV-2009 16:03:04; Bright; 43.0; 62; 94Bet Leo ; 2.14; 9700;occ; 86; 0;40374  
 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374  
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 15; 5446.2; 19-NOV-2009 16:13:17; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40374  
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 19; 6563.4; 19-NOV-2009 16:31:54; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40374  
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 3; 2372.0; 19-NOV-2009 17:02:39; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40375  
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 6; 2785.1; 19-NOV-2009 17:09:32; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40375  
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 12; 4833.7; 19-NOV-2009 17:43:40; Bright; 43.5; 62; 94Bet Leo ; 2.14; 9700;occ; 87; 0;40375  
 13; 5043.7; 19-NOV-2009 17:47:10; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40375  
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7; 2784.6; 19-NOV-2009 18:50:07; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40376
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 21; 6709.2; 28-NOV-2009 13:30:21; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40501  
 22; 6924.3; 28-NOV-2009 13:33:56; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;40501  
 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501  
 24; 7222.5; 28-NOV-2009 13:38:55; Dark ; 54.5; 177; 1Zet CMa ; 3.02; 26000;occ; 109; 0;40501  
 25; 7566.7; 28-NOV-2009 13:44:39; Dark ; 30.0; 101; 11Alp Lep ; 2.58; 7000;occ; 60; 0;40501

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 2; 1755.7; 28-NOV-2009 13:48:24; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;40502  
 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502  
 4; 2335.0; 28-NOV-2009 13:58:03; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40502  
 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502  
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502  
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502  
 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502  
 9; 2992.7; 28-NOV-2009 14:09:01; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;40502  
 10; 3832.9; 28-NOV-2009 14:23:01; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40502  
 11; 3930.1; 28-NOV-2009 14:24:38; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40502  
 12; 4033.3; 28-NOV-2009 14:26:21; Bright; 51.5; 87; 64Gam UMa ; 2.43; 11000;occ; 103; 0;40502  
 13; 4196.0; 28-NOV-2009 14:29:04; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40502  
 14; 4345.8; 28-NOV-2009 14:31:34; Bright; 57.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 114; 0;40502  
 15; 4899.7; 28-NOV-2009 14:40:48; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;40502  
 16; 5101.3; 28-NOV-2009 14:44:09; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40502  
 17; 5433.5; 28-NOV-2009 14:49:42; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40502  
 18; 5528.5; 28-NOV-2009 14:51:17; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40502  
 19; 6097.5; 28-NOV-2009 15:00:46; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40502  
 20; 6414.0; 28-NOV-2009 15:06:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40502  
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 22; 6710.2; 28-NOV-2009 15:10:58; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40502  
 23; 6925.4; 28-NOV-2009 15:14:33; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;40502  
 24; 7157.9; 28-NOV-2009 15:18:26; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40502  
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 3; 2245.1; 28-NOV-2009 15:37:09; Bright; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40503  
 4; 2334.8; 28-NOV-2009 15:38:39; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;40503  
 5; 2479.5; 28-NOV-2009 15:41:03; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40503  
 6; 2626.2; 28-NOV-2009 15:43:30; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40503  
 7; 2745.3; 28-NOV-2009 15:45:29; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40503  
 8; 2871.6; 28-NOV-2009 15:47:36; Bright; 56.5; 6; 13Alp Aur ; 0.08; 3400;occ; 113; 0;40503  
 9; 2991.6; 28-NOV-2009 15:49:36; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;40503  
 10; 3833.1; 28-NOV-2009 16:03:37; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40503  
 11; 3930.0; 28-NOV-2009 16:05:14; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;40503  
 12; 4032.9; 28-NOV-2009 16:06:57; Bright; 62.0; 87; 64Gam UMa ; 2.43; 11000;occ; 124; 0;40503  
 13; 4195.7; 28-NOV-2009 16:09:40; Bright; 54.5; 174; 52Psi UMa ; 3.00; 4400;occ; 109; 0;40503  
 14; 4346.0; 28-NOV-2009 16:12:10; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40503  
 15; 4900.6; 28-NOV-2009 16:21:25; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;40503  
 16; 5101.3; 28-NOV-2009 16:24:45; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;40503  
 17; 5434.4; 28-NOV-2009 16:30:18; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40503  
 18; 5529.3; 28-NOV-2009 16:31:53; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40503  
 19; 6098.4; 28-NOV-2009 16:41:22; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40503  
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 22; 6711.5; 28-NOV-2009 16:51:35; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40503  
 23; 6926.4; 28-NOV-2009 16:55:10; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;40503  
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 2; 1187.7; 28-NOV-2009 17:00:08; Dark ; 55.5; 177; 1Zet CMa ; 3.02; 26000;occ; 111; 0;40504  
 3; 1531.0; 28-NOV-2009 17:05:51; Dark ; 58.0; 101; 11Alp Lep ; 2.58; 7000;occ; 116; 0;40504  
 4; 1755.5; 28-NOV-2009 17:09:35; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;40504



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5; 2244.8; 28-NOV-2009 17:17:45; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;40504
6; 2334.6; 28-NOV-2009 17:19:15; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40504
7; 2479.1; 28-NOV-2009 17:21:39; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40504
8; 2625.9; 28-NOV-2009 17:24:06; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40504
9; 2745.3; 28-NOV-2009 17:26:05; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40504
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12; 3832.7; 28-NOV-2009 17:44:13; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;40504
13; 3929.8; 28-NOV-2009 17:45:50; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;40504
14; 4032.7; 28-NOV-2009 17:47:33; Bright; 45.0; 87; 64Gam UMa ; 2.43; 11000;occ; 90; 0;40504
15; 4195.3; 28-NOV-2009 17:50:15; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40504
16; 4346.1; 28-NOV-2009 17:52:46; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40504
17; 4901.1; 28-NOV-2009 18:02:01; Bright; 55.0; 62; 94Bet Leo ; 2.14; 9700;occ; 110; 0;40504
18; 5102.1; 28-NOV-2009 18:05:22; Bright; 39.0; 121; 29Gam Vir ; 2.74; 7200;occ; 78; 0;40504
19; 5435.1; 28-NOV-2009 18:10:55; Dark ; 48.5; 100; 4Gam Crv ; 2.58; 13100;occ; 97; 0;40504
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21; 6099.3; 28-NOV-2009 18:21:59; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40504
22; 6415.7; 28-NOV-2009 18:27:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40504
23; 6612.6; 28-NOV-2009 18:30:33; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;40504
24; 6712.7; 28-NOV-2009 18:32:13; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40504
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2; 1188.3; 28-NOV-2009 18:40:44; Dark ; 55.0; 177; 1Zet CMA ; 3.02; 26000;occ; 110; 0;40505
3; 1531.2; 28-NOV-2009 18:46:27; Dark ; 56.0; 101; 11Alp Lep ; 2.58; 7000;occ; 112; 0;40505
4; 1755.3; 28-NOV-2009 18:50:11; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;40505
5; 2244.3; 28-NOV-2009 18:58:20; Bright; 56.5; 13; 87Alp Tau ; 0.87; 3800;occ; 113; 0;40505
6; 2334.4; 28-NOV-2009 18:59:50; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40505
7; 2478.9; 28-NOV-2009 19:02:15; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40505
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13; 3929.4; 28-NOV-2009 19:26:25; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40505
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18; 5102.5; 28-NOV-2009 19:45:58; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;40505
19; 5435.8; 28-NOV-2009 19:51:32; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40505
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24; 6713.6; 28-NOV-2009 20:12:50; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40505
25; 6928.0; 28-NOV-2009 20:16:24; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40505
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2; -502.8; 29-NOV-2009 00:54:57; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;40508
3; 66.1; 29-NOV-2009 01:04:26; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40509
4; 383.2; 29-NOV-2009 01:09:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40509
5; 580.0; 29-NOV-2009 01:12:59; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40509
6; 680.8; 29-NOV-2009 01:14:40; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40509
7; 894.6; 29-NOV-2009 01:18:14; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40509
8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;40509
9; 1531.7; 29-NOV-2009 01:28:51; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;40509
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12; 2333.5; 29-NOV-2009 01:42:13; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;40509
13; 2477.5; 29-NOV-2009 01:44:37; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40509
14; 2624.3; 29-NOV-2009 01:47:04; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40509
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17; 2985.5; 29-NOV-2009 01:53:05; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40509
18; 3830.7; 29-NOV-2009 02:07:10; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40509
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 5; -931.2; 29-NOV-2009 02:28:24; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40509  
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 7; 67.0; 29-NOV-2009 02:45:02; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40510  
 8; 384.0; 29-NOV-2009 02:50:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40510  
 9; 581.1; 29-NOV-2009 02:53:36; Dark ; 62.0; 34; Gam2Vel ; 1.79; 23000;occ; 124; 0;40510  
 10; 682.1; 29-NOV-2009 02:55:17; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40510  
 11; 895.6; 29-NOV-2009 02:58:51; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;40510  
 12; 1127.2; 29-NOV-2009 03:02:43; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40510  
 13; 1531.9; 29-NOV-2009 03:09:27; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;40510  
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 21; 4014.5; 01-DEC-2009 01:07:00; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40537  
 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537  
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537  
 24; 4922.8; 01-DEC-2009 01:22:08; Bright; 58.5; 62; 94Bet Leo ; 2.14; 9700;occ; 117; 0;40537  
 25; 5120.4; 01-DEC-2009 01:25:26; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40537

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 5; 2330.4; 30-NOV-2009 07:52:56; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40527  
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 8; 2854.9; 30-NOV-2009 08:01:41; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40527  
 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527  
 10; 3824.7; 30-NOV-2009 08:17:51; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40527  
 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527  
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 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527  
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 15; 4916.2; 30-NOV-2009 08:36:02; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40527



16; 5114.6; 30-NOV-2009 08:39:21; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;40527  
 17; 5452.5; 30-NOV-2009 08:44:59; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40527  
 18; 5547.9; 30-NOV-2009 08:46:34; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40527  
 19; 6116.7; 30-NOV-2009 08:56:03; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40527  
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 21; 6633.2; 30-NOV-2009 09:04:39; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40527  
 22; 6737.1; 30-NOV-2009 09:06:23; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40527  
 23; 6947.3; 30-NOV-2009 09:09:53; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40527  
 24; 7176.4; 30-NOV-2009 09:13:42; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;40527  
 25; 7570.4; 30-NOV-2009 09:20:17; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;40527

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 4; 2235.6; 30-NOV-2009 09:31:58; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40528  
 5; 2330.3; 30-NOV-2009 09:33:32; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40528  
 6; 2472.9; 30-NOV-2009 09:35:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40528  
 7; 2618.7; 30-NOV-2009 09:38:21; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40528  
 8; 2854.2; 30-NOV-2009 09:42:16; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40528  
 9; 2966.6; 30-NOV-2009 09:44:09; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;40528  
 10; 3824.4; 30-NOV-2009 09:58:26; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40528  
 11; 3920.9; 30-NOV-2009 10:00:03; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;40528  
 12; 4015.3; 30-NOV-2009 10:01:37; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40528  
 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528  
 14; 4347.7; 30-NOV-2009 10:07:10; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40528  
 15; 4916.8; 30-NOV-2009 10:16:39; Bright; 57.5; 62; 94Bet Leo ; 2.14; 9700;occ; 115; 0;40528  
 16; 5115.3; 30-NOV-2009 10:19:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40528  
 17; 5453.4; 30-NOV-2009 10:25:35; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40528  
 18; 5548.9; 30-NOV-2009 10:27:11; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40528  
 19; 6117.4; 30-NOV-2009 10:36:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40528  
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 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528  
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528  
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 4; 2101.0; 30-NOV-2009 11:10:19; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40529  
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 6; 2330.0; 30-NOV-2009 11:14:08; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40529  
 7; 2472.6; 30-NOV-2009 11:16:30; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40529  
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 9; 2853.5; 30-NOV-2009 11:22:51; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40529  
 10; 2965.7; 30-NOV-2009 11:24:44; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40529  
 11; 3824.1; 30-NOV-2009 11:39:02; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40529  
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 13; 4015.3; 30-NOV-2009 11:42:13; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40529  
 14; 4189.5; 30-NOV-2009 11:45:07; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;40529  
 15; 4347.5; 30-NOV-2009 11:47:45; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;40529  
 16; 4917.3; 30-NOV-2009 11:57:15; Bright; 79.0; 62; 94Bet Leo ; 2.14; 9700;occ; 158; 0;40529  
 17; 5115.9; 30-NOV-2009 12:00:34; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40529  
 18; 5454.0; 30-NOV-2009 12:06:12; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40529  
 19; 5549.6; 30-NOV-2009 12:07:47; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;40529  
 20; 6118.0; 30-NOV-2009 12:17:16; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40529  
 21; 6436.7; 30-NOV-2009 12:22:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40529  
 22; 6634.7; 30-NOV-2009 12:25:53; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40529  
 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529  
 24; 6948.8; 30-NOV-2009 12:31:07; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;40529  
 25; 7178.0; 30-NOV-2009 12:34:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;40529  
 26; 7570.7; 30-NOV-2009 12:41:28; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;40529

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5; 2234.8; 30-NOV-2009 12:53:08; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;40530  
6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530  
7; 2472.5; 30-NOV-2009 12:57:06; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40530  
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13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530  
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16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530  
17; 5116.6; 30-NOV-2009 13:41:10; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40530  
18; 5454.9; 30-NOV-2009 13:46:49; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40530  
19; 5550.3; 30-NOV-2009 13:48:24; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40530  
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23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530  
24; 6949.9; 30-NOV-2009 14:11:44; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40530  
25; 7178.8; 30-NOV-2009 14:15:32; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;40530  
26; 7570.8; 30-NOV-2009 14:22:04; Dark ; 6.5; 101; 11Alp Lep ; 2.58; 7000;occ; 13; 0;40530

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3; 1935.8; 30-NOV-2009 14:28:45; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40531  
4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531  
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531  
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11; 3823.3; 30-NOV-2009 15:00:13; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40531  
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16; 4918.8; 30-NOV-2009 15:18:28; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40531  
17; 5117.1; 30-NOV-2009 15:21:47; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40531  
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19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531  
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22; 6636.8; 30-NOV-2009 15:47:06; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40531  
23; 6741.3; 30-NOV-2009 15:48:51; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40531  
24; 6950.6; 30-NOV-2009 15:52:20; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40531  
25; 7179.4; 30-NOV-2009 15:56:09; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;40531

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12; 3919.6; 30-NOV-2009 16:42:25; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;40532  
13; 4015.2; 30-NOV-2009 16:44:01; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40532  
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