

# GOMOS Daily Report 07-OCT-2007

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	15OCT2007 10:28:07
Data source version	GOMOS/5.00
Start time of products	07-10-2007 (07OCT2007 00:00:00)
Stop time of products	08-10-2007 (08OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

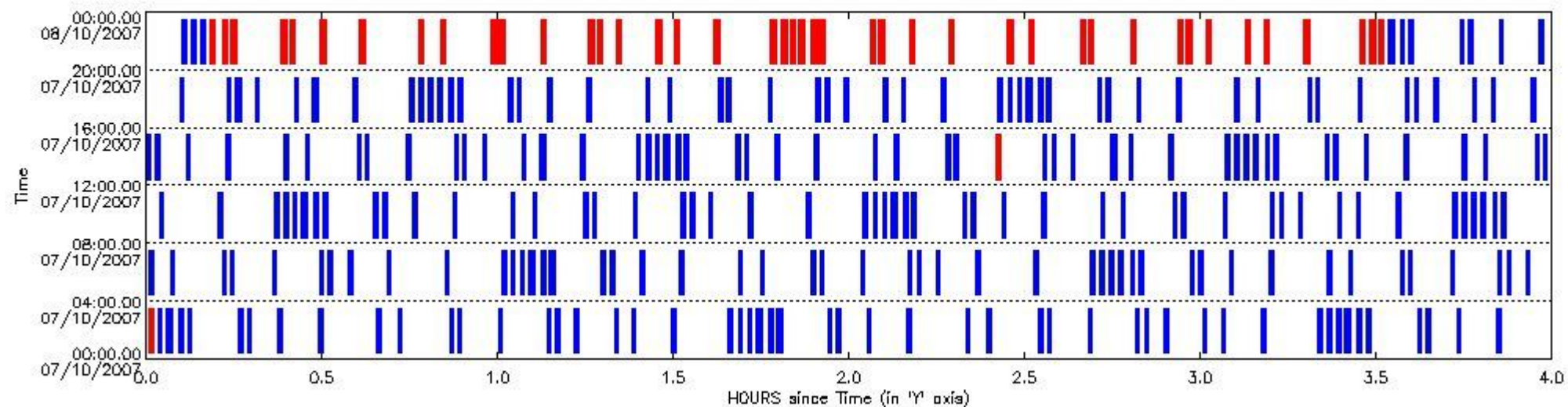
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
07-OCT-2007 00:00:21	ZetPup	70	29285
07-OCT-2007 14:25:00	1AlpUMi	49	29294
07-OCT-2007 20:10:45	DSA1055	0	29298
07-OCT-2007 20:12:53	TauPup	161	29298
07-OCT-2007 20:14:17	AlpCar	2	29298
07-OCT-2007 20:23:01	AlpHyi	143	29298
07-OCT-2007 20:24:29	AlpEri	9	29298
07-OCT-2007 20:29:41	AlpPhe	84	29298
07-OCT-2007 20:36:26	16BetCet	52	29298
07-OCT-2007 20:46:27	88GamPeg	140	29298
07-OCT-2007 20:50:07	53BetPeg	93	29298
07-OCT-2007 20:58:51	18AlpCas	68	29298
07-OCT-2007 21:00:16	27GamCas	76	29298
07-OCT-2007 21:07:23	1AlpUMi	49	29298
07-OCT-2007 21:15:30	50AlpUMa	36	29298

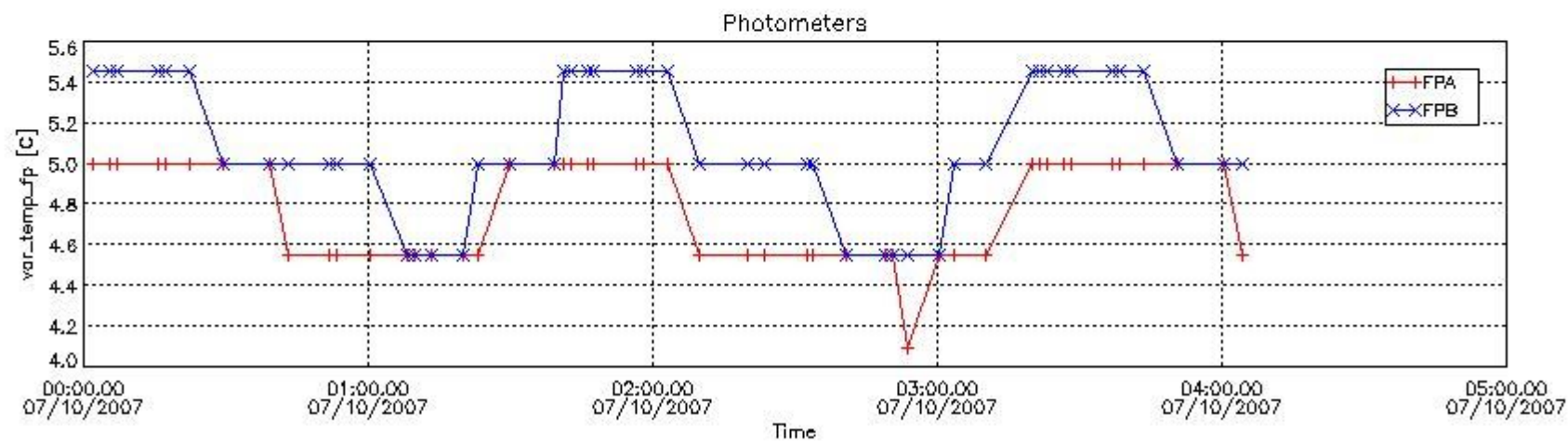
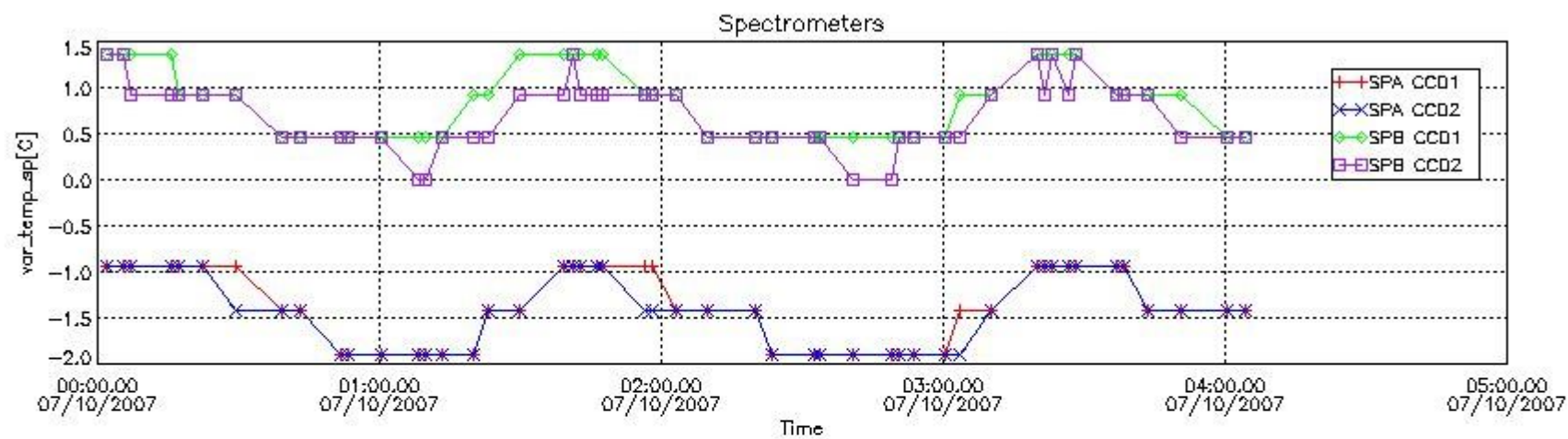
07-OCT-2007 21:17:02	48BetUMa	82	29298
07-OCT-2007 21:20:19	52PsiUMa	174	29298
07-OCT-2007 21:27:02	17EpsLeo	166	29298
07-OCT-2007 21:30:10	32AlpLeo	22	29298
07-OCT-2007 21:36:58	30AlpHya	48	29298
07-OCT-2007 21:46:37	LamVel	65	29298
07-OCT-2007 21:48:19	ZetPup	70	29298
07-OCT-2007 21:49:52	DelVel	46	29298
07-OCT-2007 21:51:22	DSA1055	0	29299
07-OCT-2007 21:53:30	TauPup	161	29299
07-OCT-2007 21:54:54	AlpCar	2	29299
07-OCT-2007 22:03:38	AlpHyi	143	29299
07-OCT-2007 22:05:05	AlpEri	9	29299
07-OCT-2007 22:10:17	AlpPhe	84	29299
07-OCT-2007 22:17:02	16BetCet	52	29299
07-OCT-2007 22:27:03	88GamPeg	140	29299
07-OCT-2007 22:30:43	53BetPeg	93	29299
07-OCT-2007 22:39:27	18AlpCas	68	29299
07-OCT-2007 22:40:51	27GamCas	76	29299
07-OCT-2007 22:47:59	1AlpUMi	49	29299
07-OCT-2007 22:56:06	50AlpUMa	36	29299
07-OCT-2007 22:57:38	48BetUMa	82	29299
07-OCT-2007 23:00:55	52PsiUMa	174	29299
07-OCT-2007 23:07:39	17EpsLeo	166	29299
07-OCT-2007 23:10:46	32AlpLeo	22	29299
07-OCT-2007 23:17:35	30AlpHya	48	29299
07-OCT-2007 23:27:14	LamVel	65	29299
07-OCT-2007 23:28:55	ZetPup	70	29299
07-OCT-2007 23:30:28	DelVel	46	29299

#### 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_1PNPDE20071007_000202_000000382062_00173_29285_3673.N1	07-OCT-2007 00:02:02	Dark	37.500	46	Del Vel	1.9540	10600.	75	29285	No
2	GOM_TRA_1PNPDE20071007_000535_000000442062_00174_29286_3674.N1	07-OCT-2007 00:05:35	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29286	No
3	GOM_TRA_1PNPDE20071007_000659_000000462062_00174_29286_3675.N1	07-OCT-2007 00:06:59	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	29286	No
4	GOM_TRA_1PNPDE20071007_001549_000000372062_00174_29286_3676.N1	07-OCT-2007 00:15:49	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	29286	No
5	GOM_TRA_1PNPDE20071007_001717_000000402062_00174_29286_3677.N1	07-OCT-2007 00:17:17	Dark	40.000	9	Alp Eri	0.45300	24000.	80	29286	No
6	GOM_TRA_1PNPDE20071007_002230_000000422062_00174_29286_3678.N1	07-OCT-2007 00:22:30	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	29286	No
7	GOM_TRA_1PNPDE20071007_002916_000000472062_00174_29286_3679.N1	07-OCT-2007 00:29:16	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	29286	No
8	GOM_TRA_1PNPDE20071007_003920_000000392062_00174_29286_3680.N1	07-OCT-2007 00:39:20	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	29286	No
9	GOM_TRA_1PNPDE20071007_004258_000000352062_00174_29286_3681.N1	07-OCT-2007 00:42:58	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	29286	No
10	GOM_TRA_1PNPDE20071007_005147_000000402062_00174_29286_3682.N1	07-OCT-2007 00:51:47	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	29286	No
11	GOM_TRA_1PNPDE20071007_005312_000000392062_00174_29286_3683.N1	07-OCT-2007 00:53:12	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	29286	No
12	GOM_TRA_1PNPDE20071007_010015_000000342062_00174_29286_3684.N1	07-OCT-2007 01:00:15	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29286	No
13	GOM_TRA_1PNPDE20071007_010821_000000362062_00174_29286_3685.N1	07-OCT-2007 01:08:21	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29286	No
14	GOM_TRA_1PNPDE20071007_010952_000000522062_00174_29286_3686.N1	07-OCT-2007 01:09:52	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29286	No
15	GOM_TRA_1PNPDE20071007_011309_000000342062_00174_29286_3687.N1	07-OCT-2007 01:13:09	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29286	No
16	GOM_TRA_1PNPDE20071007_011952_000000462062_00174_29286_3688.N1	07-OCT-2007 01:19:52	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	29286	No
17	GOM_TRA_1PNPDE20071007_012259_000000352062_00174_29286_3689.N1	07-OCT-2007 01:22:59	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	29286	No
18	GOM_TRA_1PNPDE20071007_012944_000000462062_00174_29286_3799.N1	07-OCT-2007 01:29:44	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	29286	No
19	GOM_TRA_1PNPDE20071007_013924_000000432062_00174_29286_3800.N1	07-OCT-2007 01:39:24	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29286	No
20	GOM_TRA_1PNPDE20071007_014101_000000422062_00174_29286_3801.N1	07-OCT-2007 01:41:01	Dark	42.000	70	Zet Pup	2.2460	39000.	84	29286	No
21	GOM_TRA_1PNPDE20071007_014238_000000412062_00174_29286_3802.N1	07-OCT-2007 01:42:38	Dark	41.000	46	Del Vel	1.9540	10600.	82	29286	No
22	GOM_TRA_1PNPDE20071007_014612_000000442062_00175_29287_3803.N1	07-OCT-2007 01:46:12	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	29287	No
23	GOM_TRA_1PNPDE20071007_014736_000000582062_00175_29287_3804.N1	07-OCT-2007 01:47:36	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	29287	No
24	GOM_TRA_1PNPDE20071007_015625_000000392062_00175_29287_3805.N1	07-OCT-2007 01:56:25	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29287	No
25	GOM_TRA_1PNPDE20071007_015753_000000492062_00175_29287_3806.N1	07-OCT-2007 01:57:53	Dark	49.000	9	Alp Eri	0.45300	24000.	98	29287	No

26	GOM_TRA_1PNPDE20071007_020306_000000392062_00175_29287_3807.N1	07-OCT-2007 02:03:06	Straylight	39.000	84	Alp Phe	2.3970	4500.0	78	29287	No
27	GOM_TRA_1PNPDE20071007_020952_000000462062_00175_29287_3808.N1	07-OCT-2007 02:09:52	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	29287	No
28	GOM_TRA_1PNPDE20071007_021956_000000382062_00175_29287_3809.N1	07-OCT-2007 02:19:56	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	29287	No
29	GOM_TRA_1PNPDE20071007_022334_000000362062_00175_29287_3810.N1	07-OCT-2007 02:23:34	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	29287	No
30	GOM_TRA_1PNPDE20071007_023222_000000382062_00175_29287_3811.N1	07-OCT-2007 02:32:22	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29287	No
31	GOM_TRA_1PNPDE20071007_023347_000000392062_00175_29287_3812.N1	07-OCT-2007 02:33:47	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	29287	No
32	GOM_TRA_1PNPDE20071007_024051_000000362062_00175_29287_3813.N1	07-OCT-2007 02:40:51	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29287	No
33	GOM_TRA_1PNPDE20071007_024857_000000372062_00175_29287_3938.N1	07-OCT-2007 02:48:57	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29287	No
34	GOM_TRA_1PNPDE20071007_025028_000000342062_00175_29287_3939.N1	07-OCT-2007 02:50:28	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	29287	No
35	GOM_TRA_1PNPDE20071007_025345_000000522062_00175_29287_3940.N1	07-OCT-2007 02:53:45	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29287	No
36	GOM_TRA_1PNPDE20071007_030028_000000372062_00175_29287_3941.N1	07-OCT-2007 03:00:28	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	29287	No
37	GOM_TRA_1PNPDE20071007_030335_000000352062_00175_29287_3942.N1	07-OCT-2007 03:03:35	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	29287	No
38	GOM_TRA_1PNPDE20071007_031021_000000452062_00175_29287_3943.N1	07-OCT-2007 03:10:21	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29287	No
39	GOM_TRA_1PNPDE20071007_032000_000000452062_00175_29287_3944.N1	07-OCT-2007 03:20:00	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29287	No
40	GOM_TRA_1PNPDE20071007_032138_000000422062_00175_29287_3945.N1	07-OCT-2007 03:21:38	Dark	41.500	70	Zet Pup	2.2460	39000.	83	29287	No
41	GOM_TRA_1PNPDE20071007_032315_000000432062_00175_29287_3946.N1	07-OCT-2007 03:23:15	Dark	43.000	46	Del Vel	1.9540	10600.	86	29287	No
42	GOM_TRA_1PNPDE20071007_032649_000000422062_00176_29288_3947.N1	07-OCT-2007 03:26:49	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	29288	No
43	GOM_TRA_1PNPDE20071007_032813_000000472062_00176_29288_3948.N1	07-OCT-2007 03:28:13	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	29288	No
44	GOM_TRA_1PNPDE20071007_033702_000000372062_00176_29288_3949.N1	07-OCT-2007 03:37:02	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	29288	No
45	GOM_TRA_1PNPDE20071007_033829_000000452062_00176_29288_3950.N1	07-OCT-2007 03:38:29	Dark	45.000	9	Alp Eri	0.45300	24000.	90	29288	No
46	GOM_TRA_1PNPDE20071007_034343_000000392062_00176_29288_3951.N1	07-OCT-2007 03:43:43	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	29288	No
47	GOM_TRA_1PNPDE20071007_035029_000000482062_00176_29288_3952.N1	07-OCT-2007 03:50:29	Straylight	47.500	52	16Bet Cet	2.0370	4500.0	95	29288	No
48	GOM_TRA_1PNPDE20071007_040032_000000382062_00176_29288_3953.N1	07-OCT-2007 04:00:32	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	29288	No
49	GOM_TRA_1PNPDE20071007_040410_000000352062_00176_29288_3954.N1	07-OCT-2007 04:04:10	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	29288	No

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



#### 4. Overview of dark signal processing per product

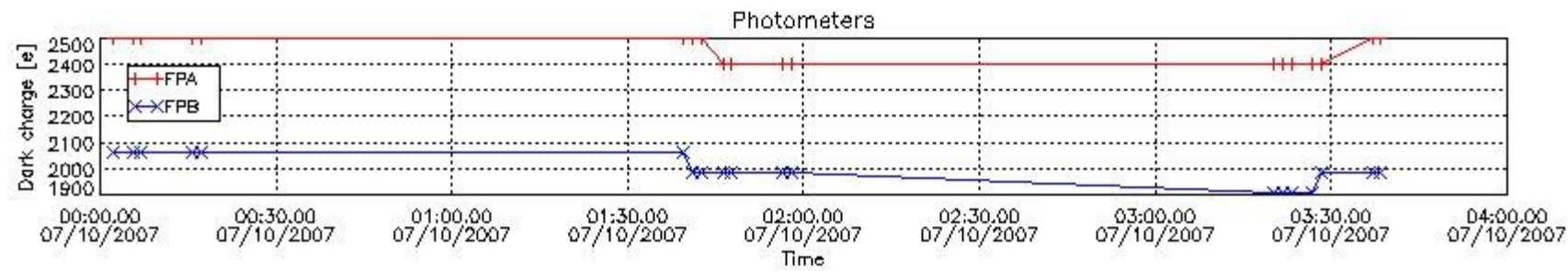
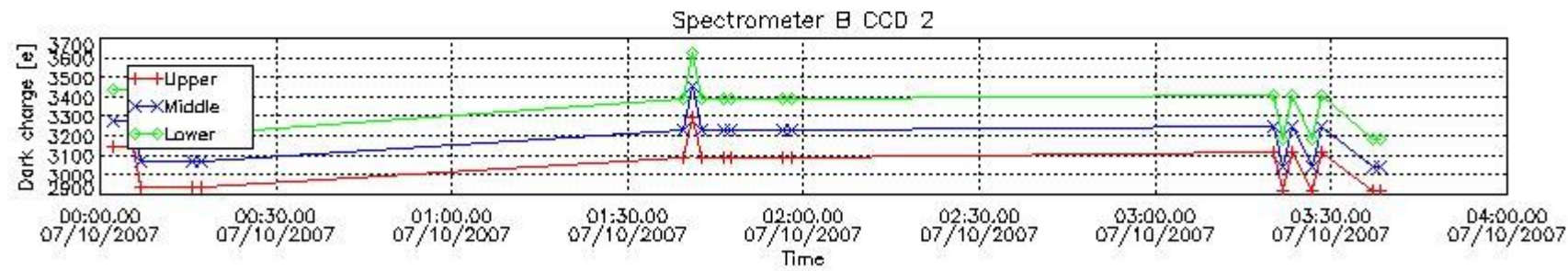
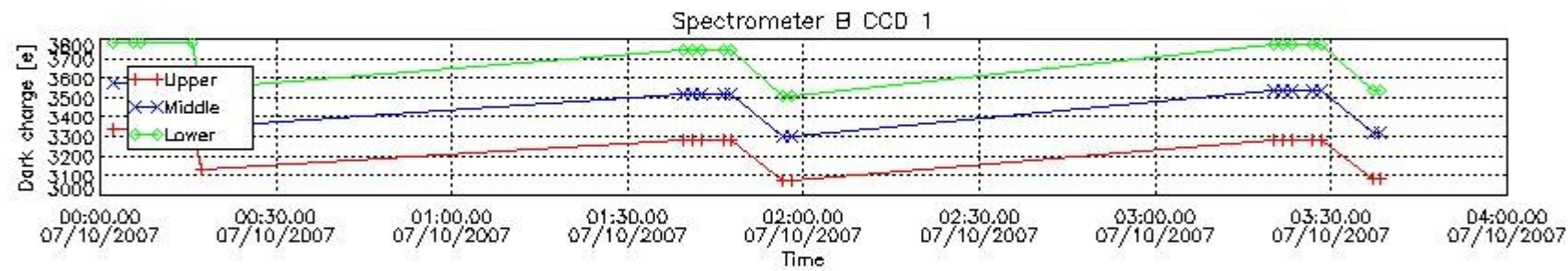
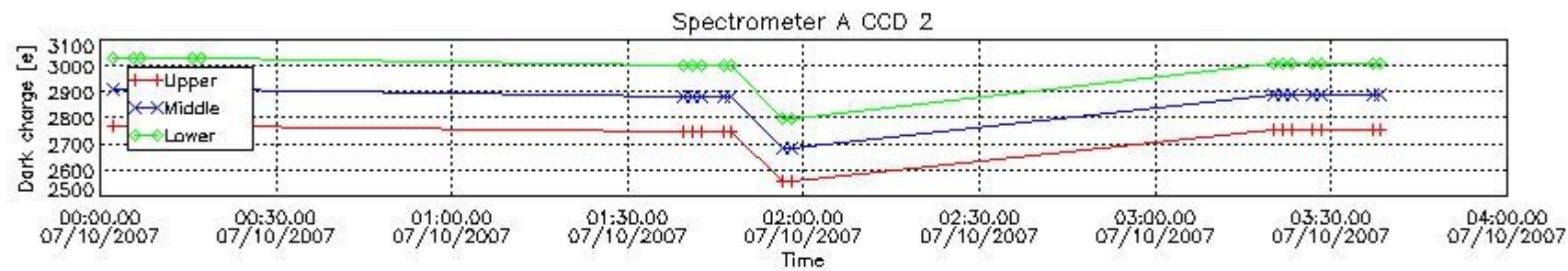
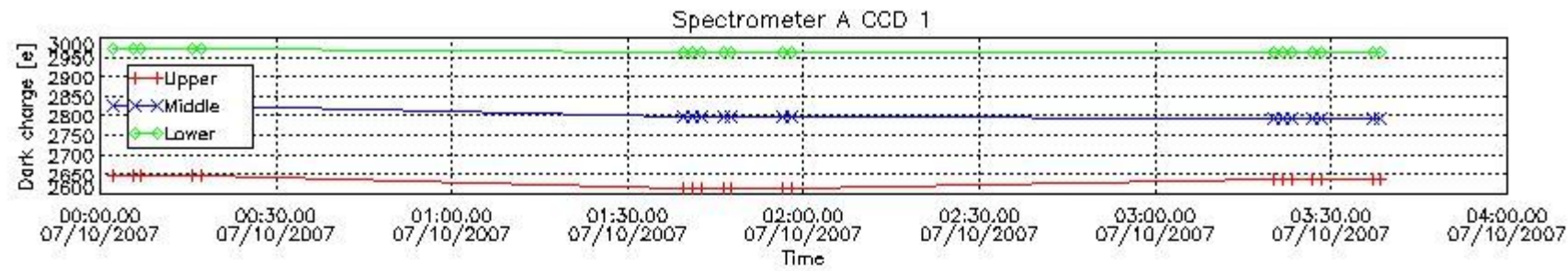
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 All products used the DSA observation for the DC computation*

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





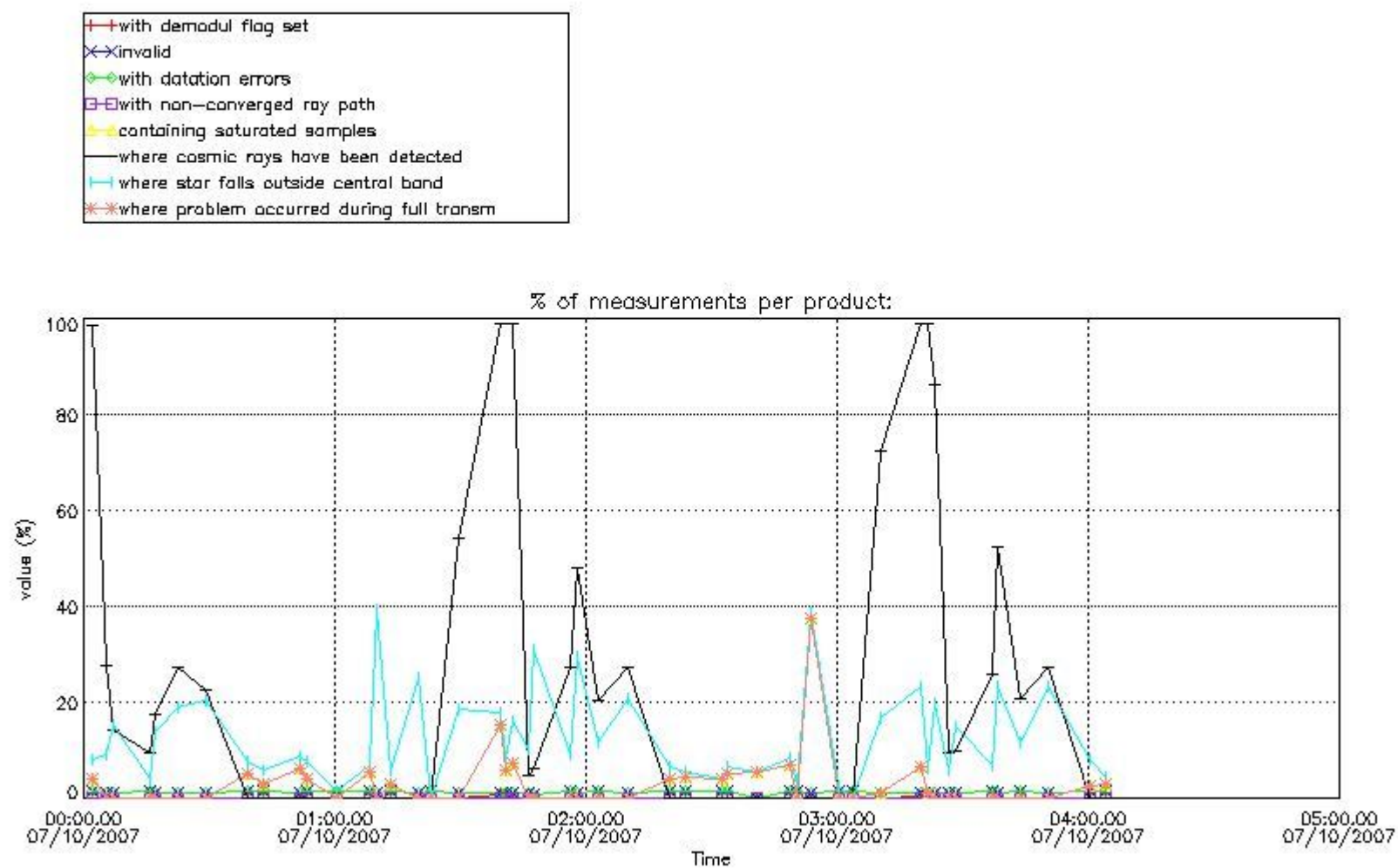
## 5. Demodulation flag and quality information monitoring

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:

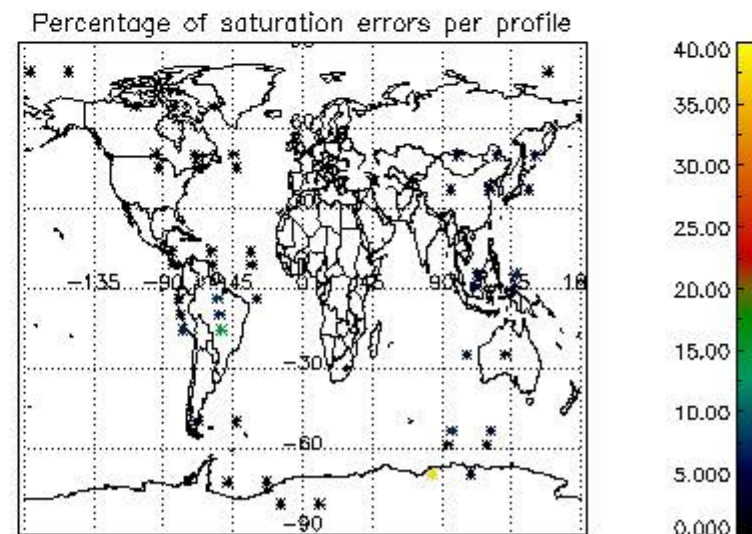
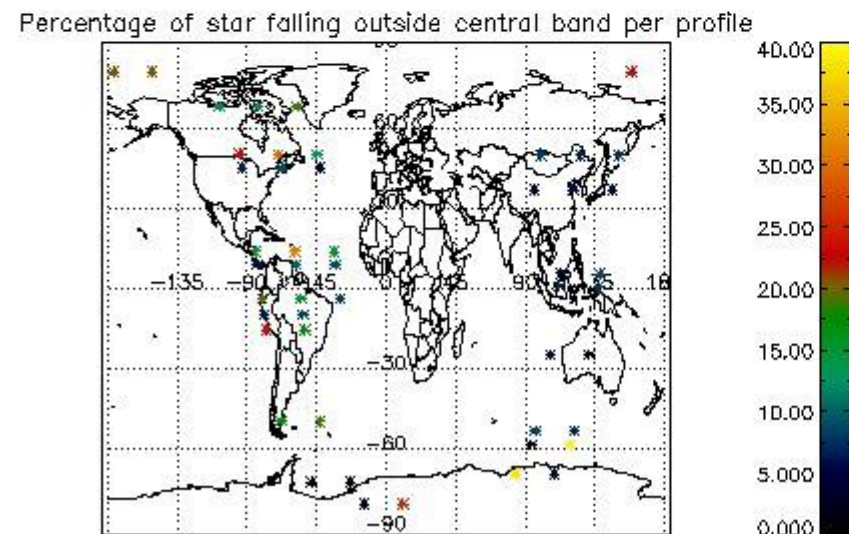
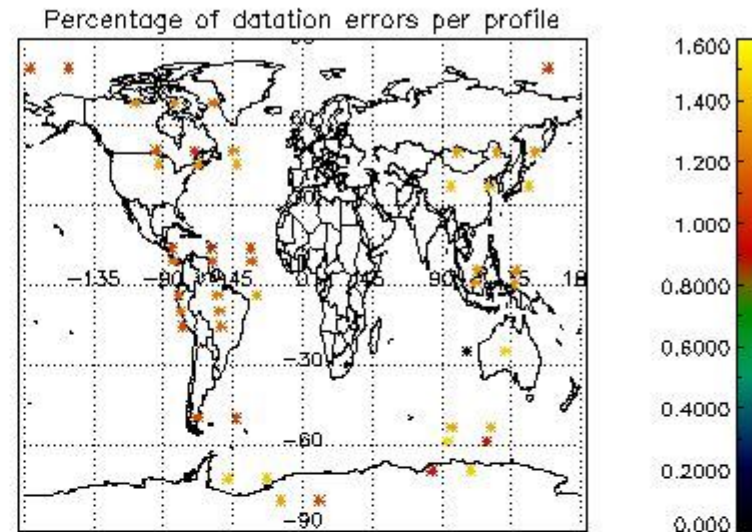
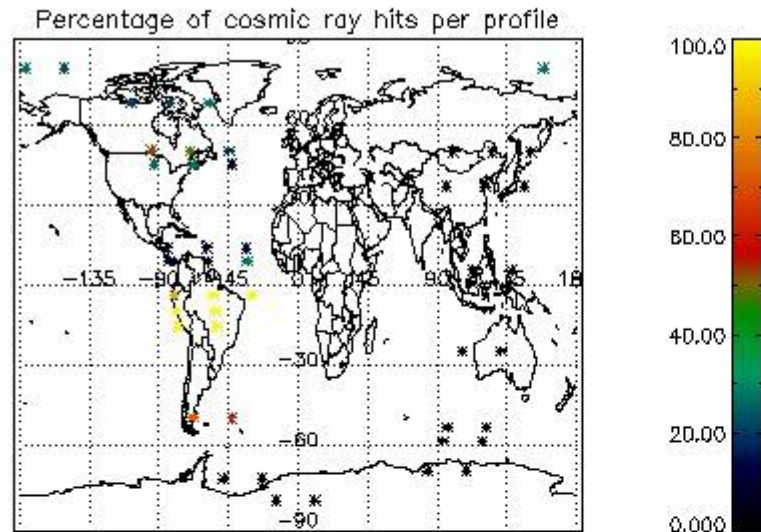
At least one measurement with demodulation flag set:	20.4082 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

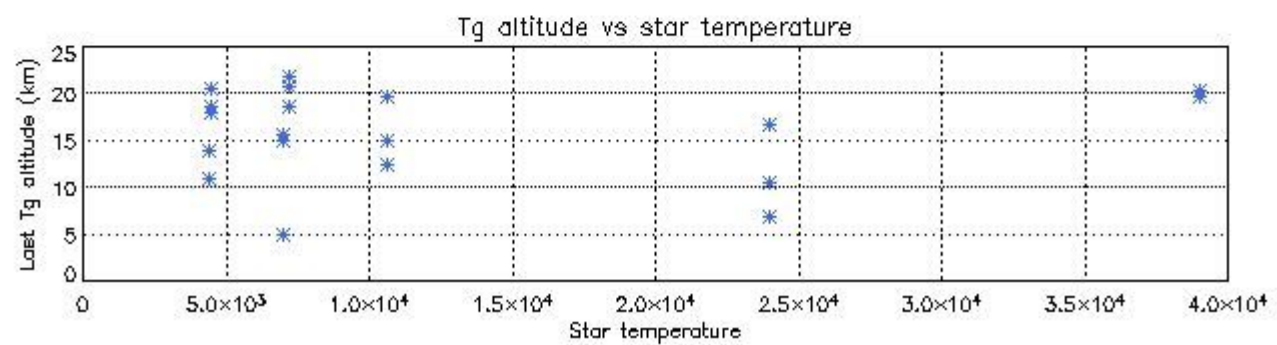
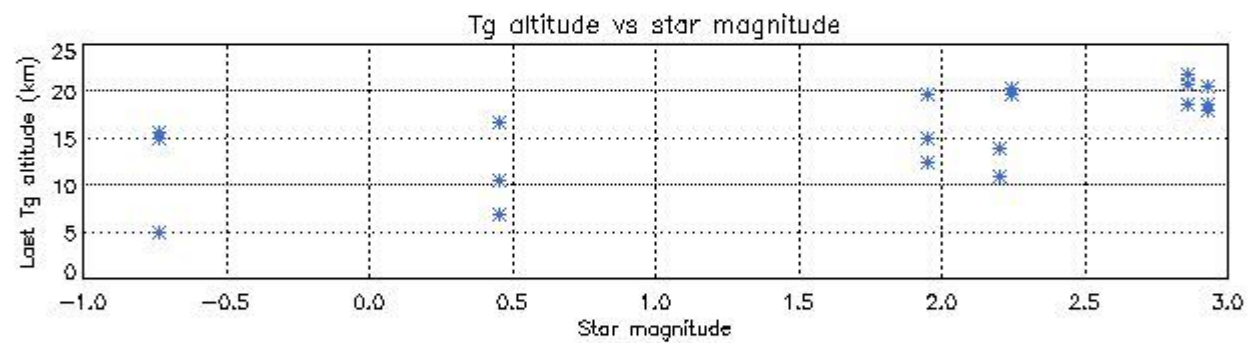
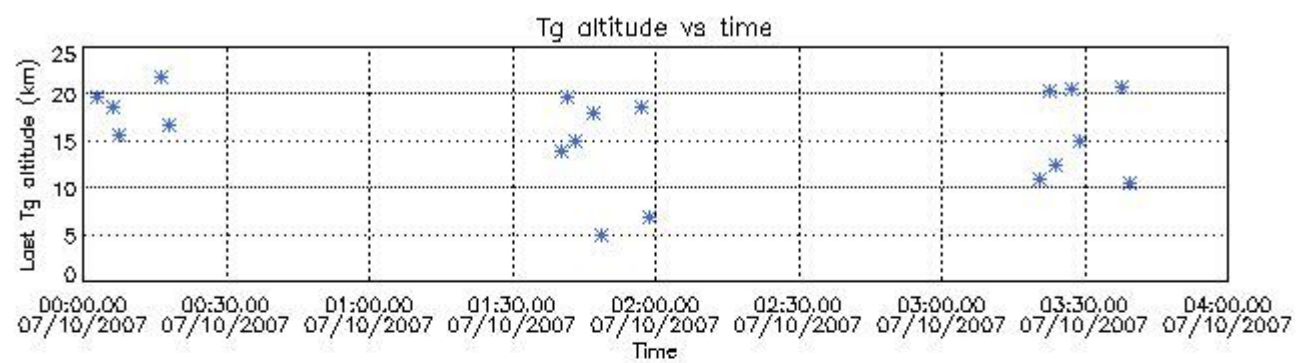
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.745	19.897	12.175
St. deviation:	4.8279	6.0131	0.80218
Maximum:	21.733	25.492	12.743
Minimum:	4.8910	3.6127	11.608
Number of data:	19.000	22.000	2.0000

### 6.2 Plot for DARK limb products

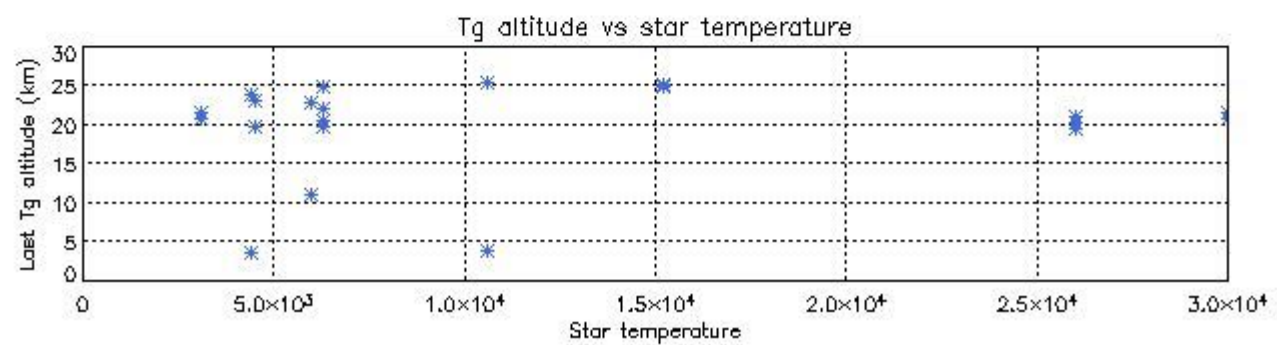
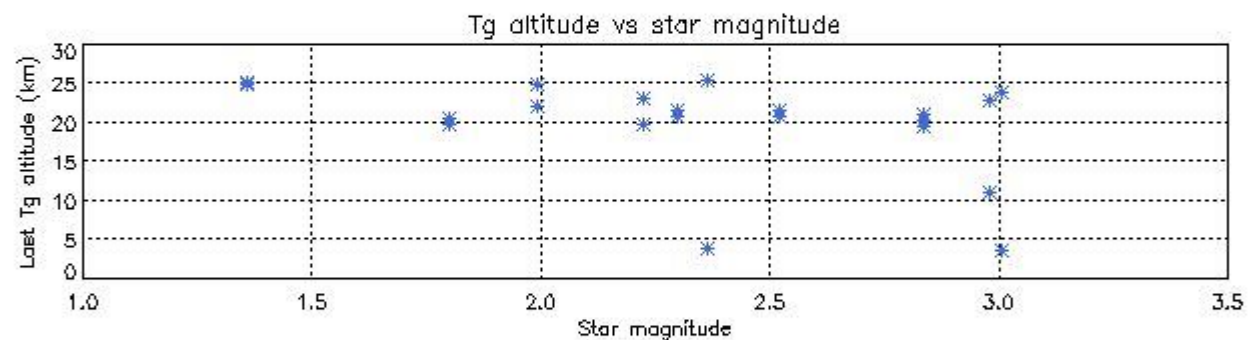
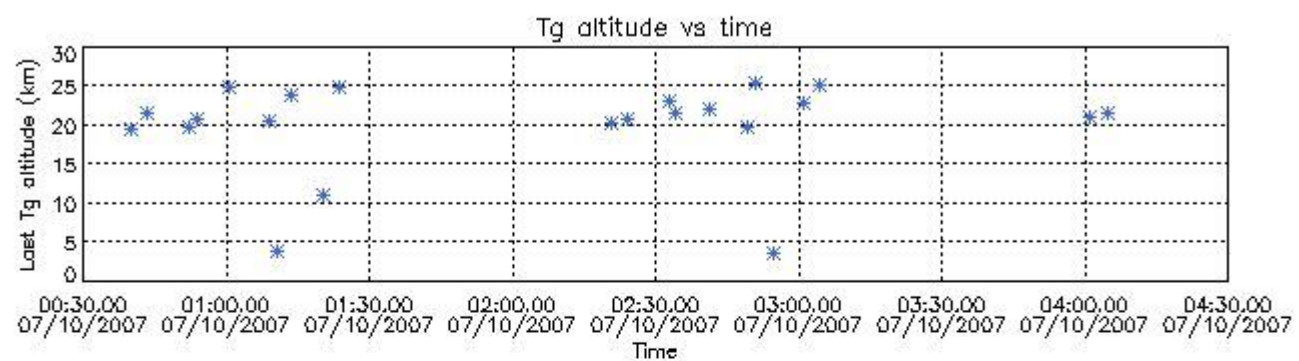


Tangent altitude at which the star is lost



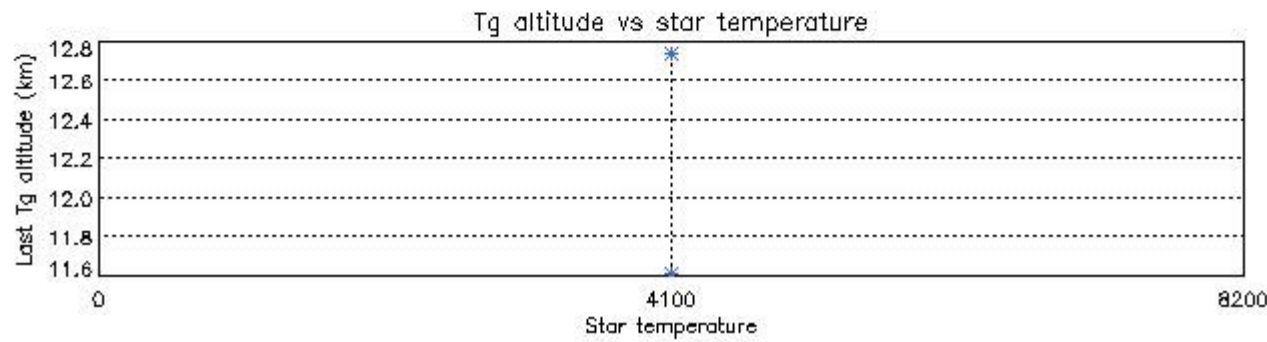
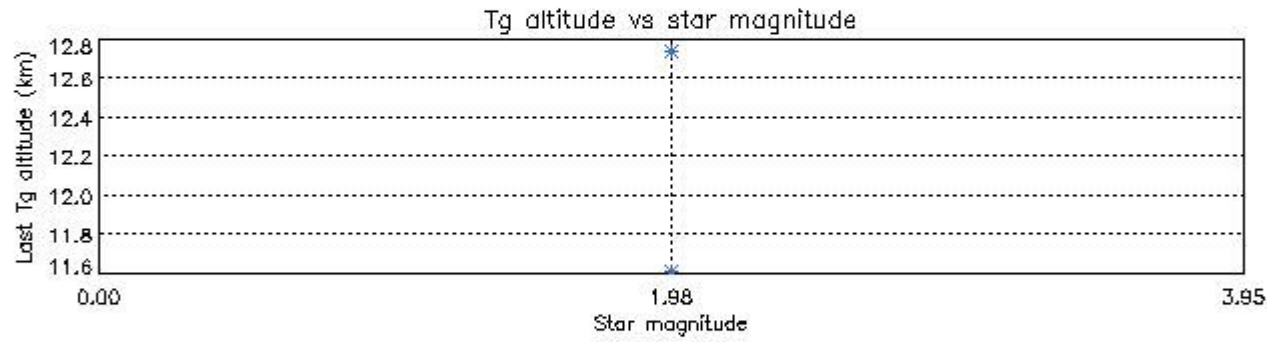
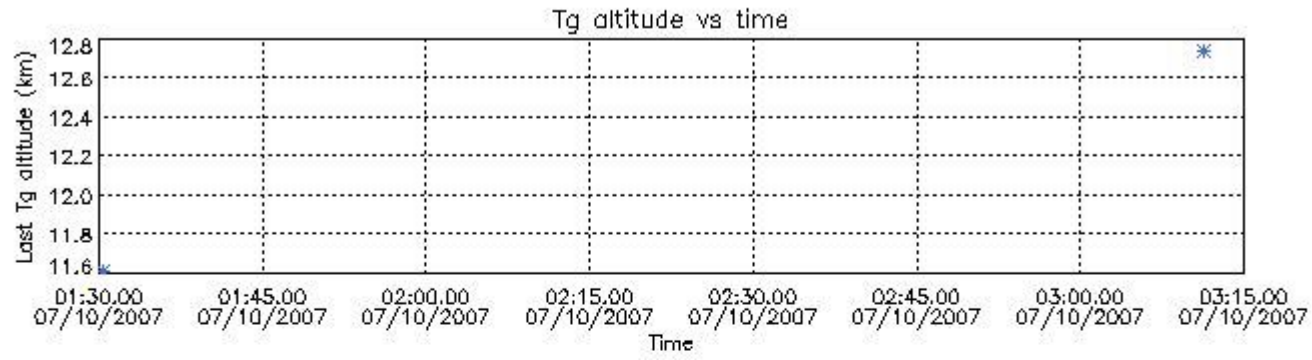
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



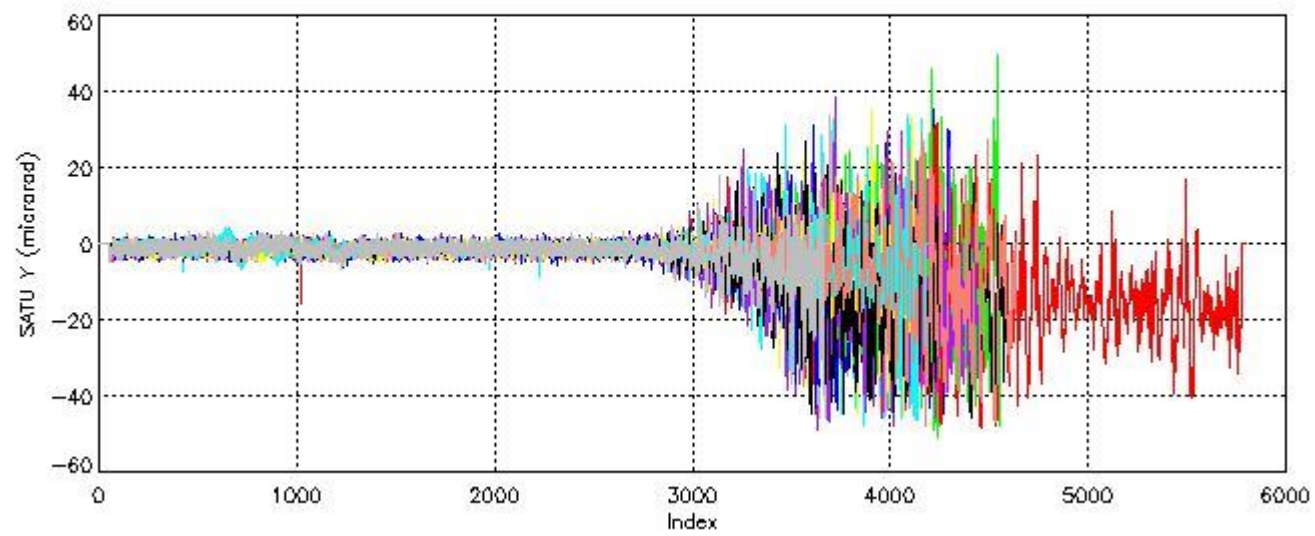
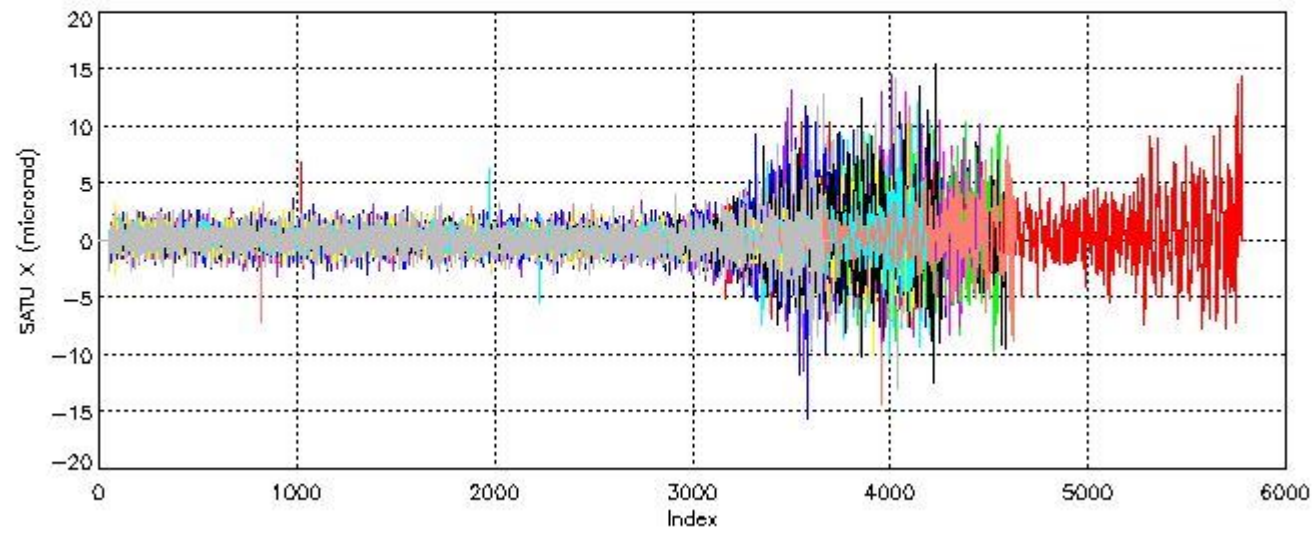
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.14110	-1.1953	0.054463	-1.3540
St. deviation:	0.47400	0.99917	0.72386	1.3121
Maximum:	3.3000	4.2000	6.2000	5.4000
Minimum:	-7.2000	-7.6000	-5.4000	-8.7000

Number of data:	18050.	18050.	18450.	18450.
-----------------	--------	--------	--------	--------

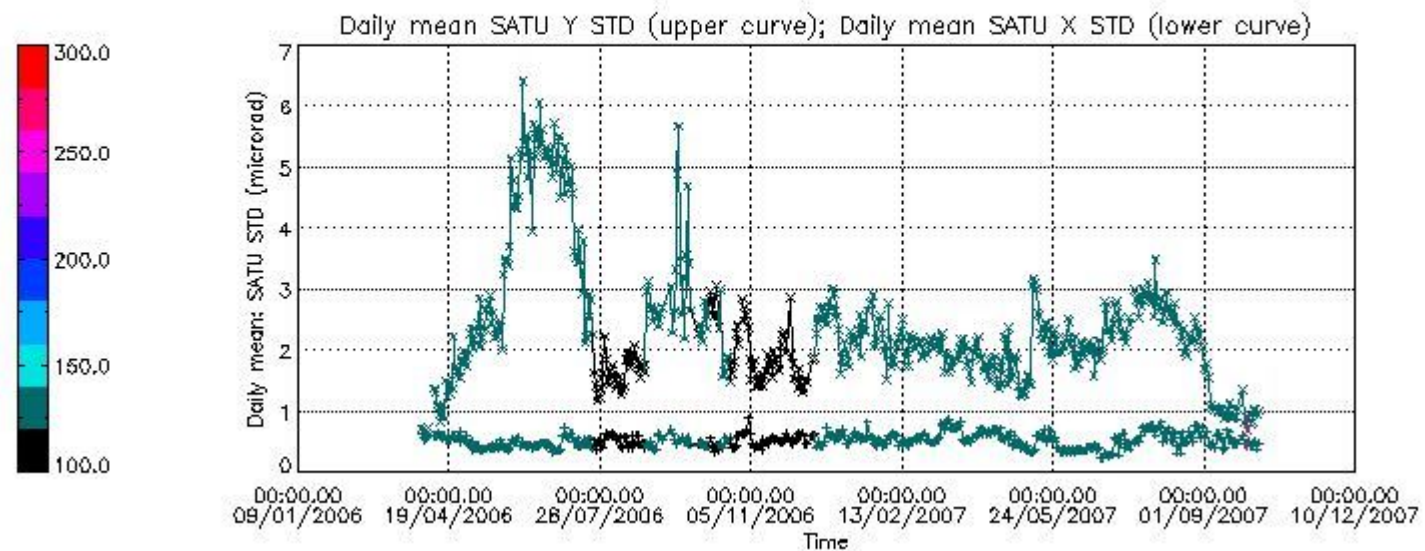
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

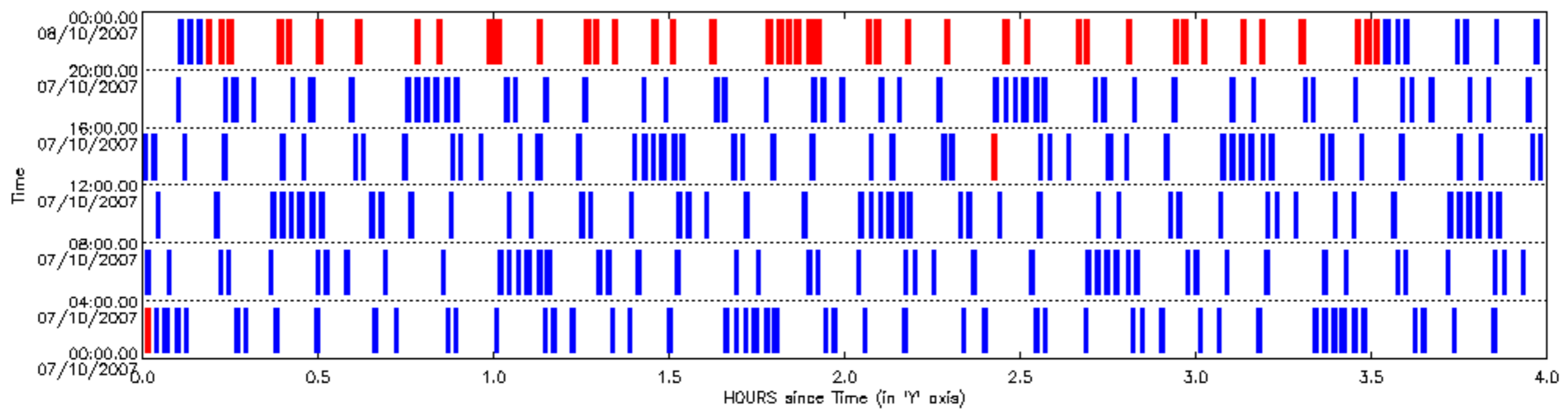
Lower curve: STD of SATU X axis



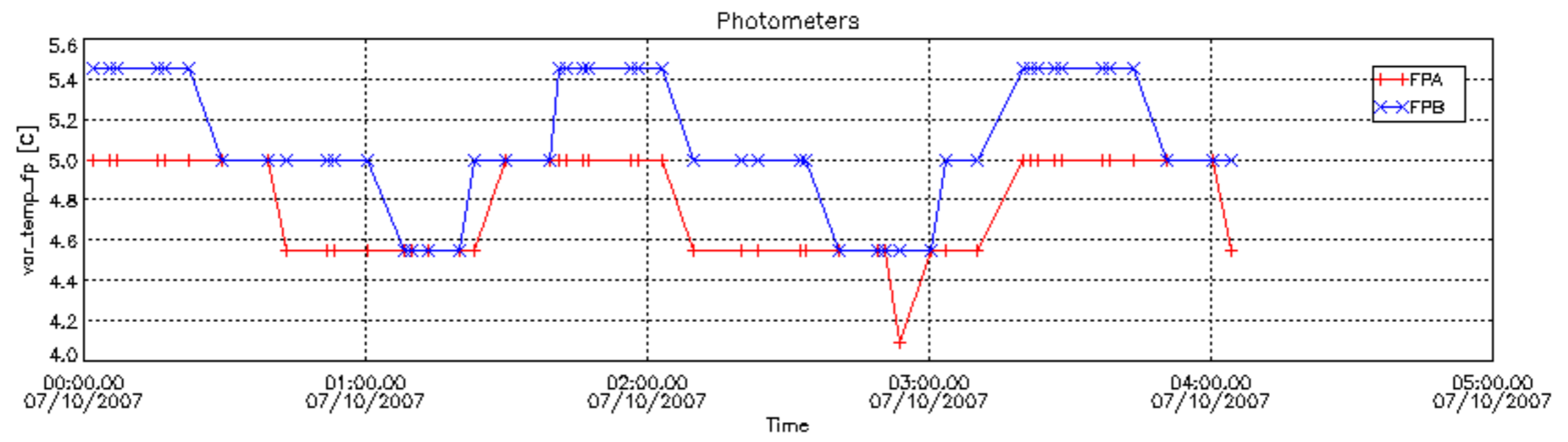
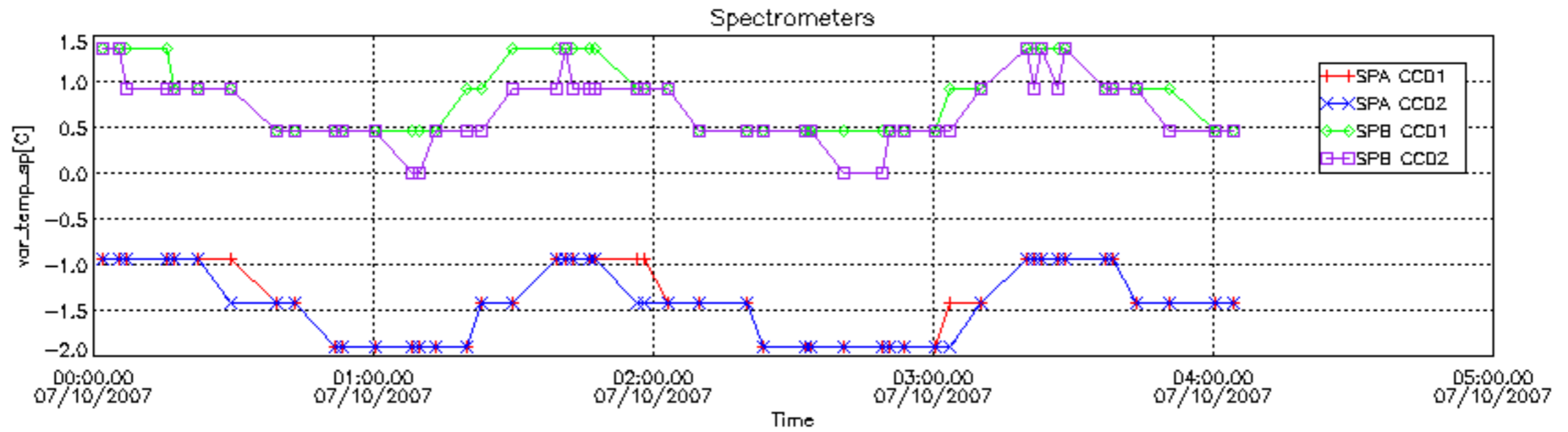
### 8. Auxiliary Data Files used for the production reported in section 2.4

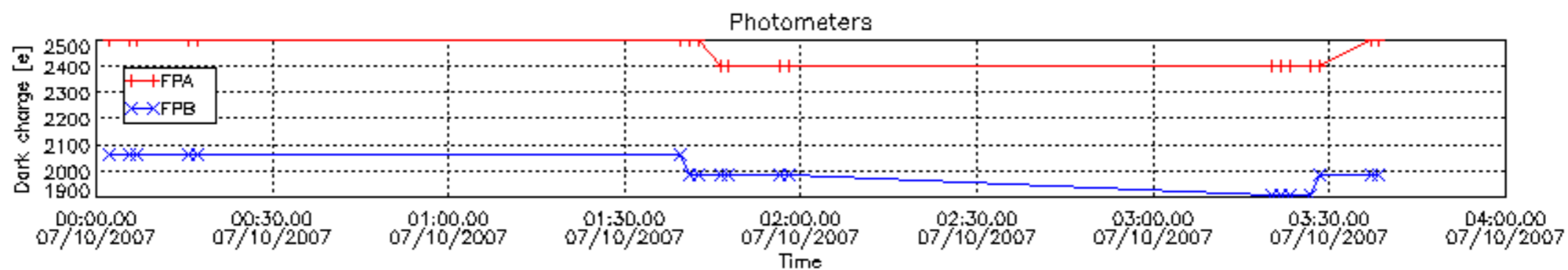
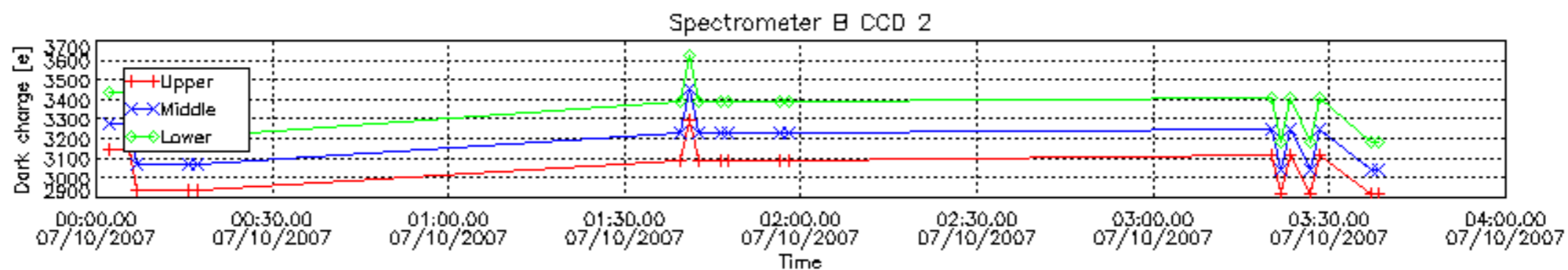
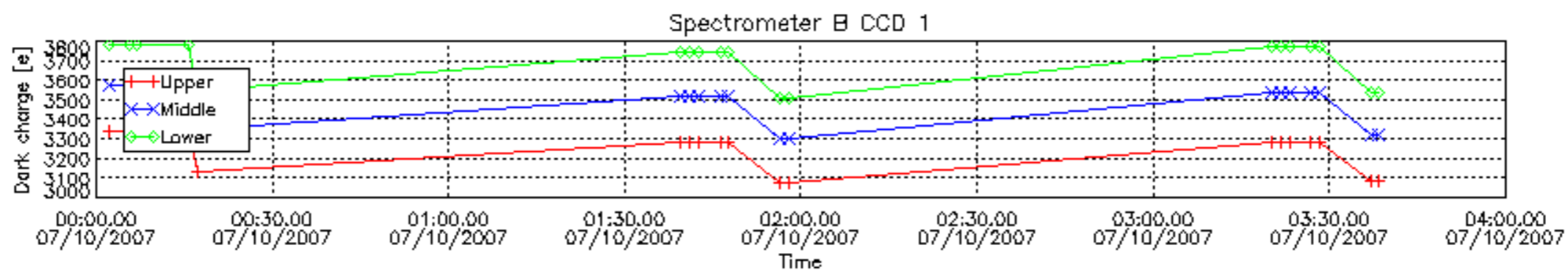
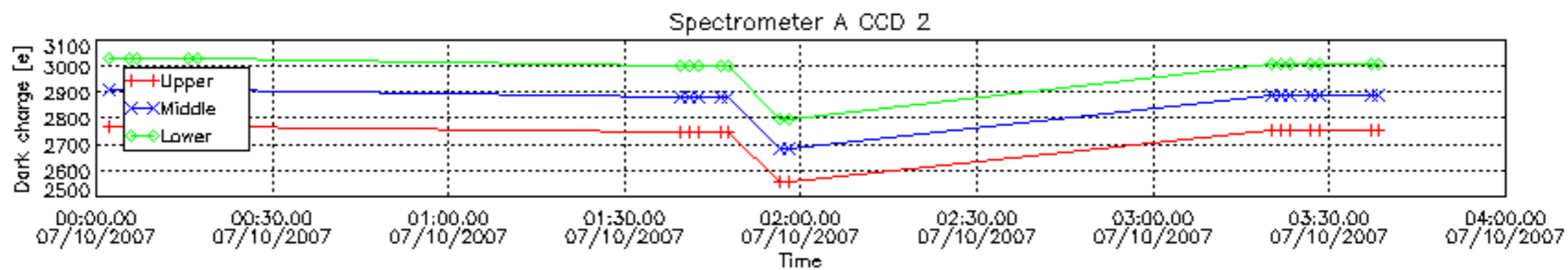
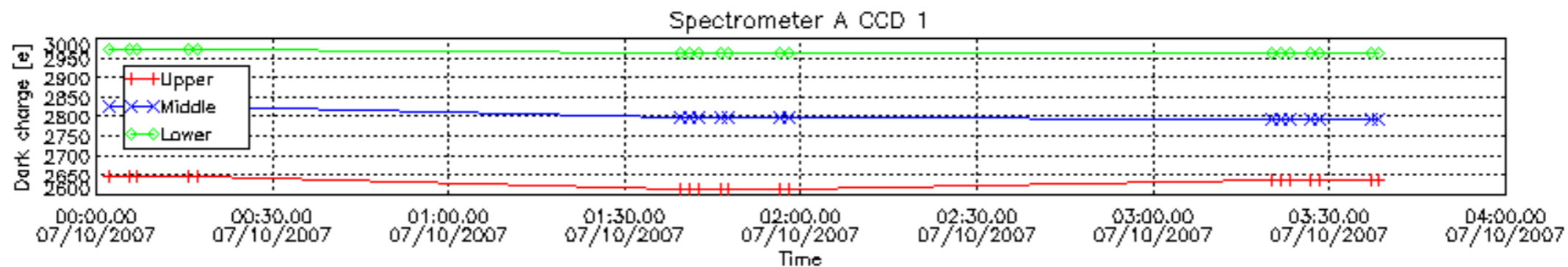
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	07-OCT-2007 00:02:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-OCT-2007 00:02:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-OCT-2007 00:02:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-OCT-2007 00:02:02
ECMWF_FILE	AUX_ECF_AXNECM20071006_061112_20071006_210000_20071007_090000	1	07-OCT-2007 00:02:02
OPTIONAL_ECMWF_FILE	MISSING	1	07-OCT-2007 00:02:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071006_220721_000057382062_00172_29284_4303.N1	1	07-OCT-2007 00:02:02





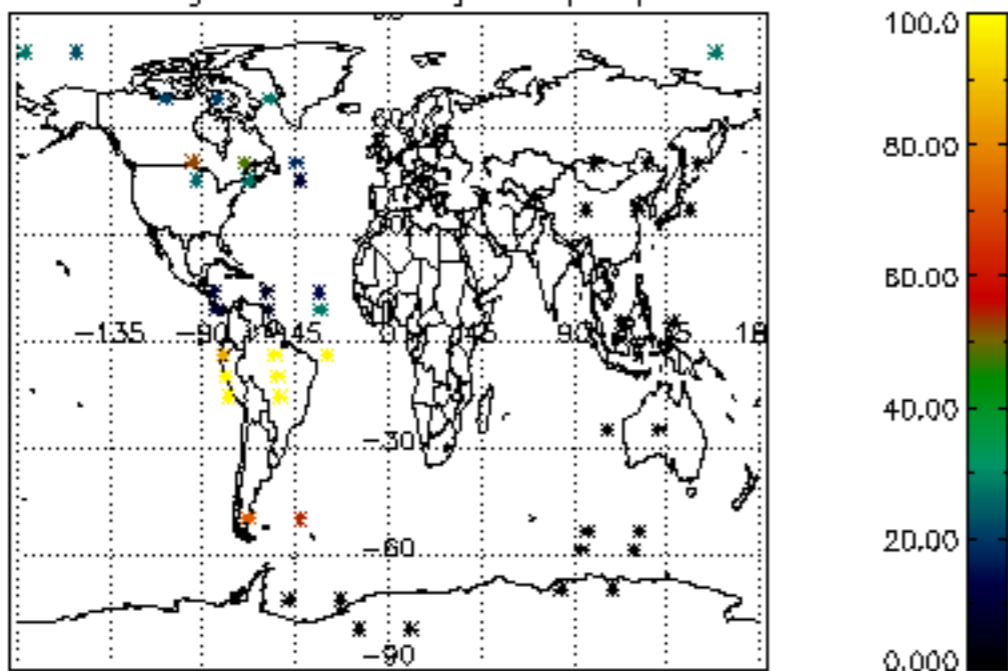




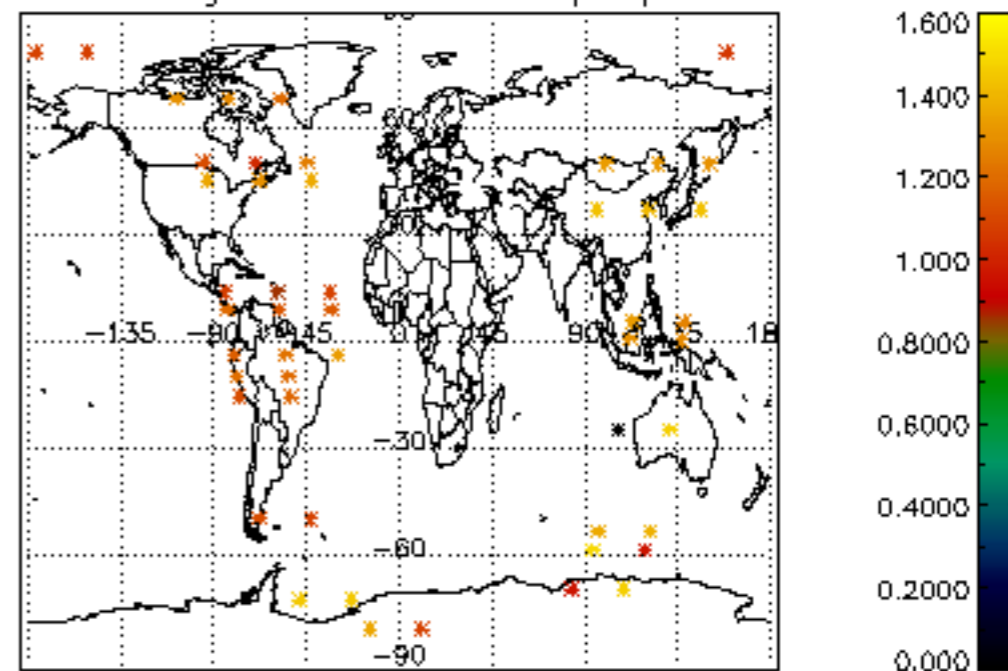




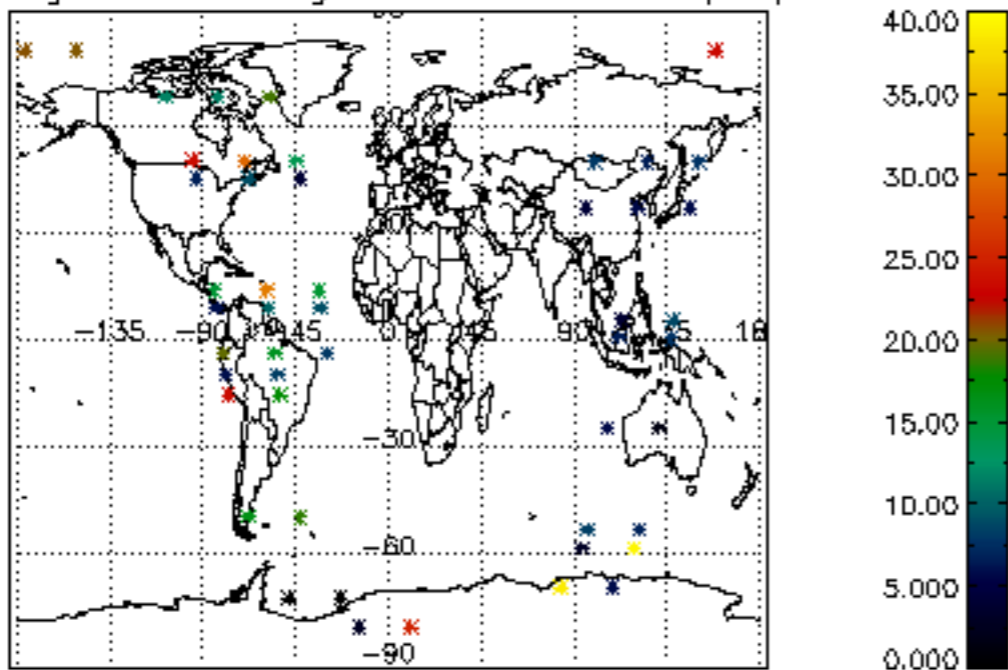
Percentage of cosmic ray hits per profile



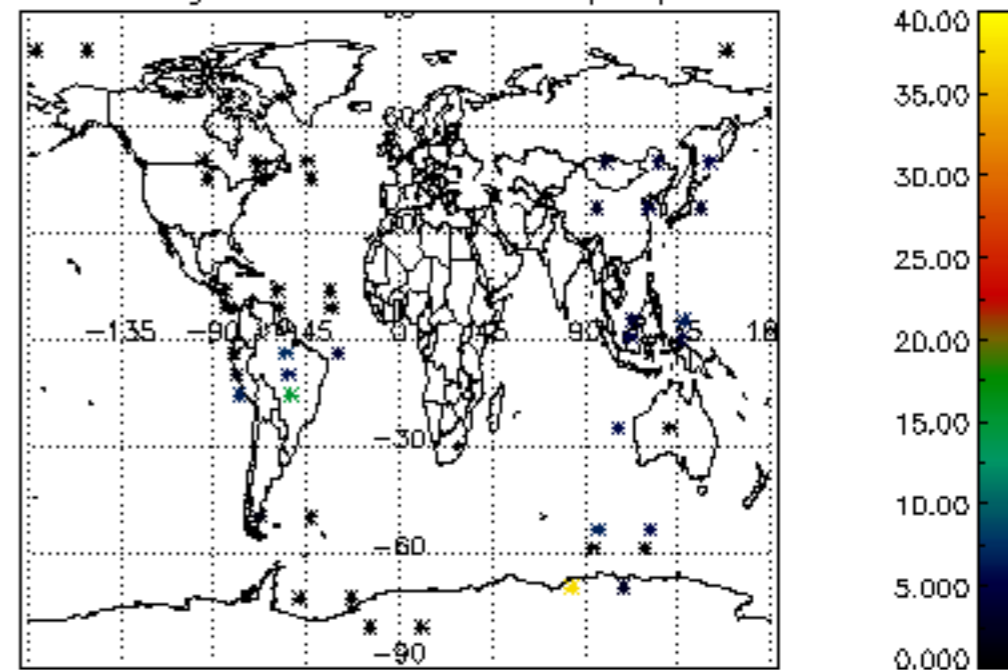
Percentage of datation errors per profile



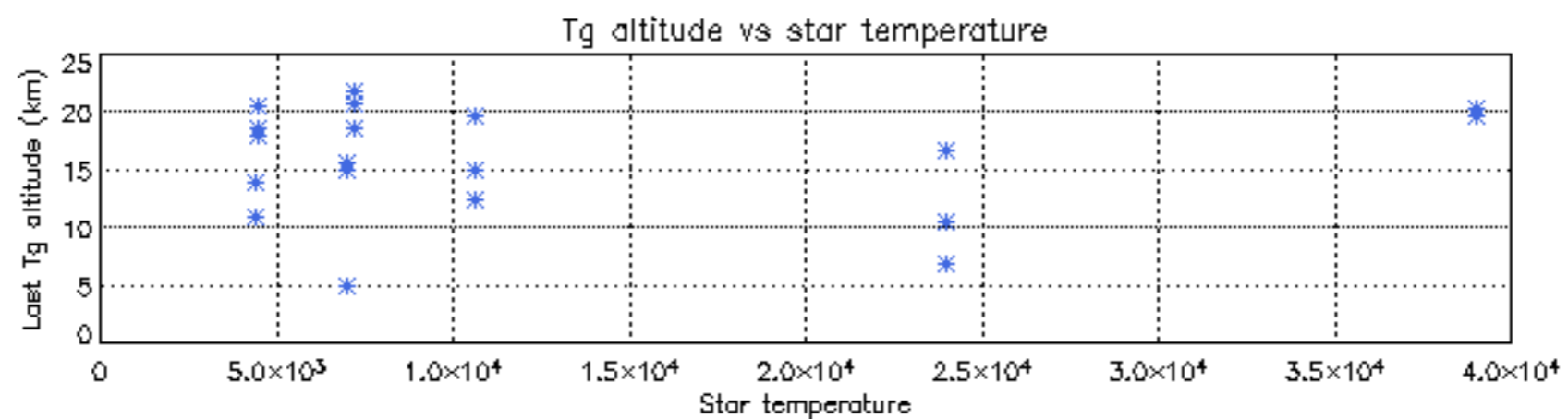
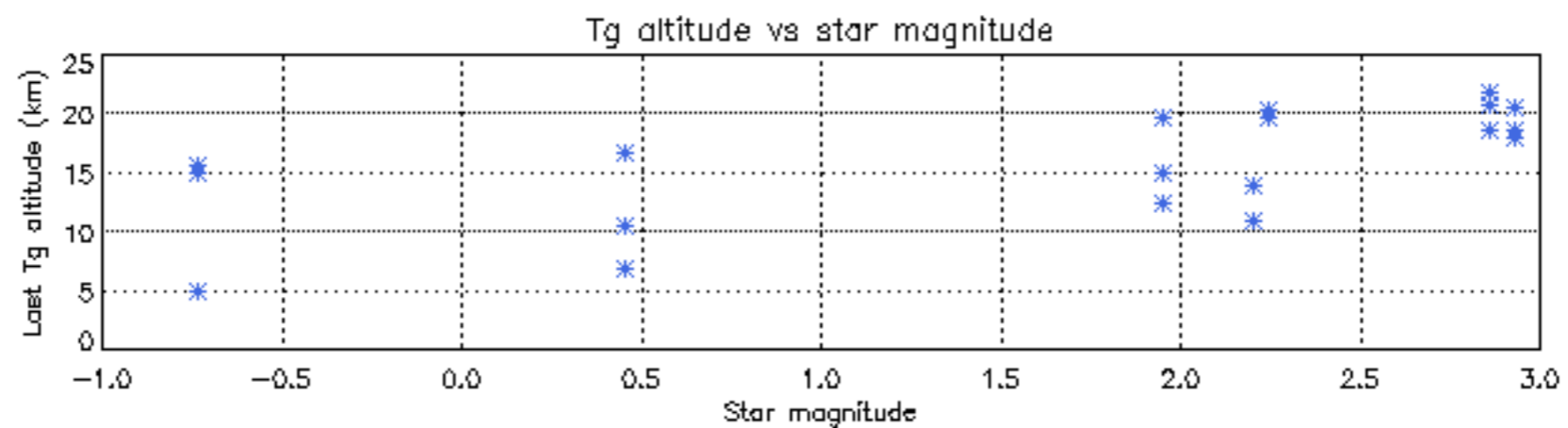
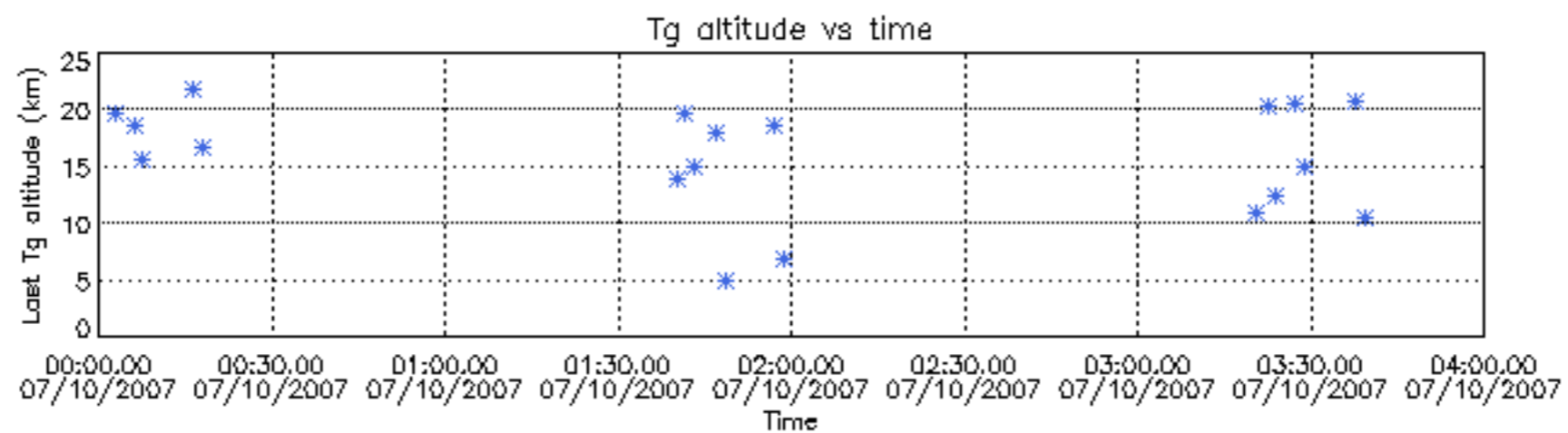
Percentage of star falling outside central band per profile



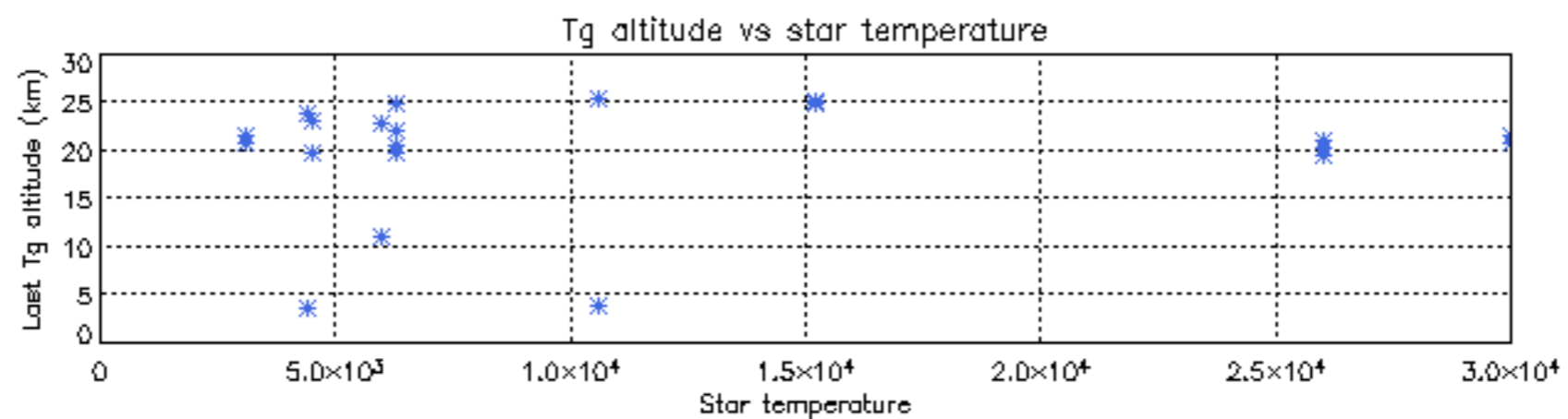
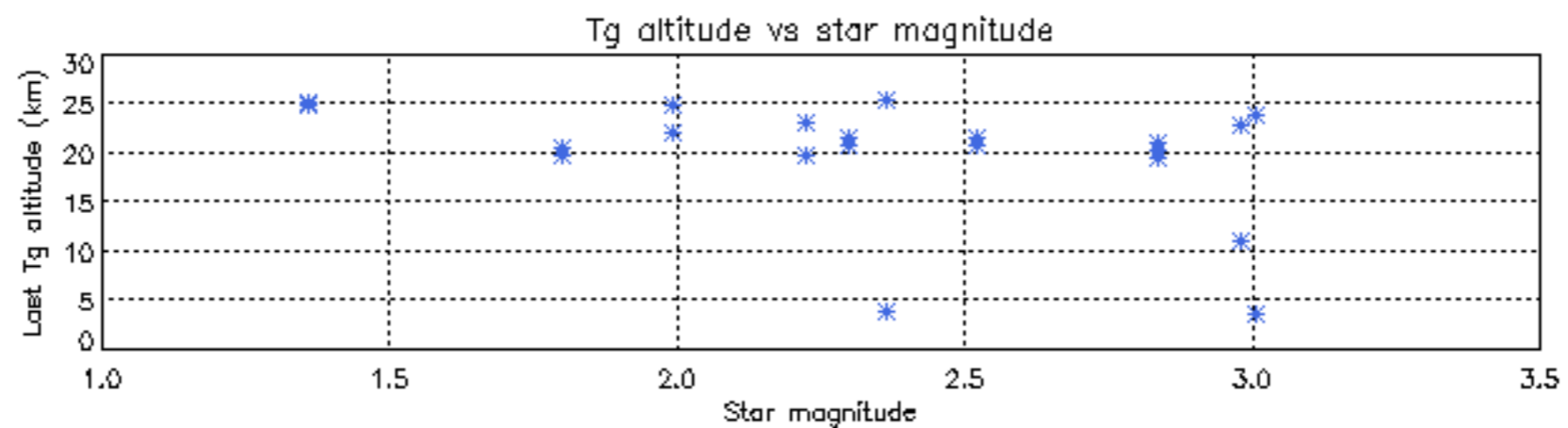
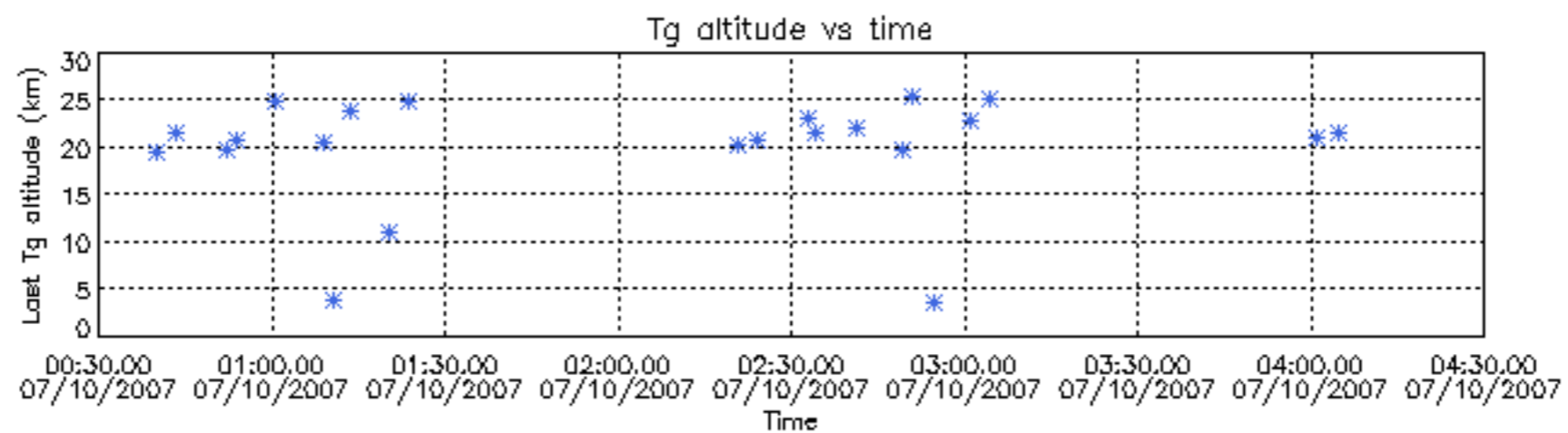
Percentage of saturation errors per profile



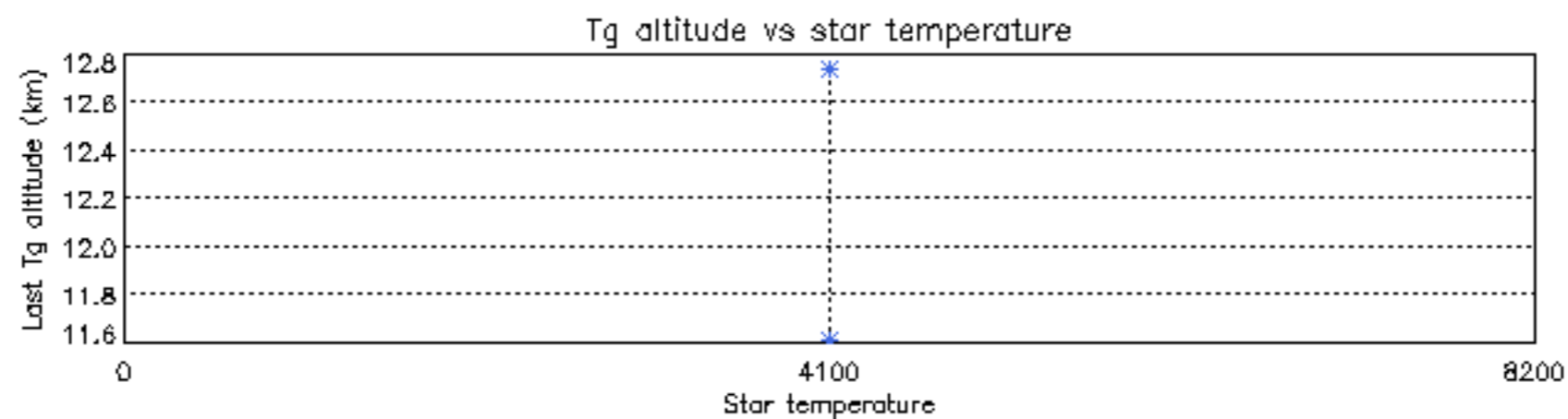
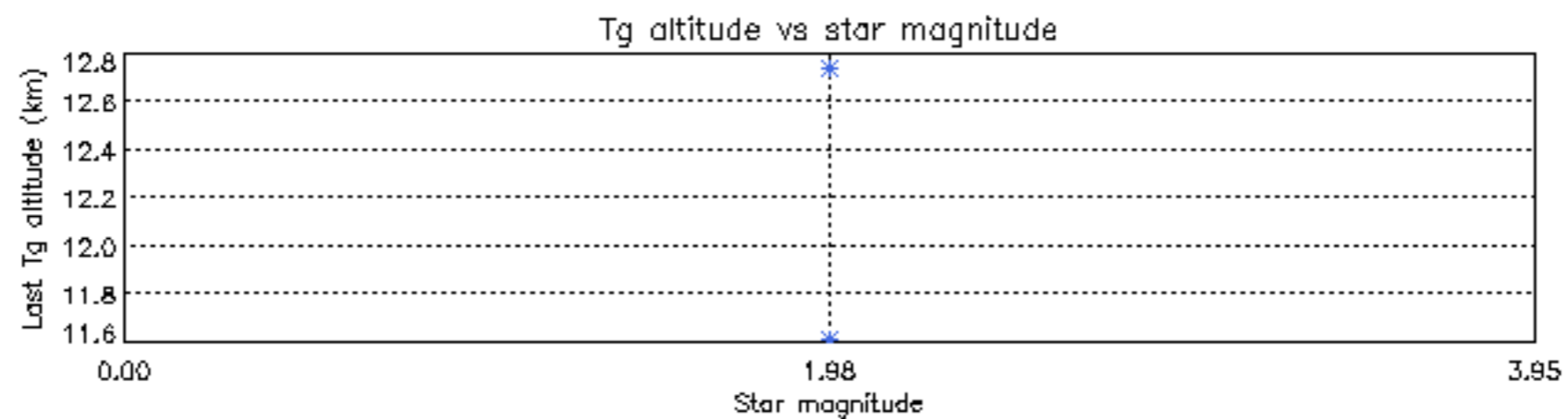
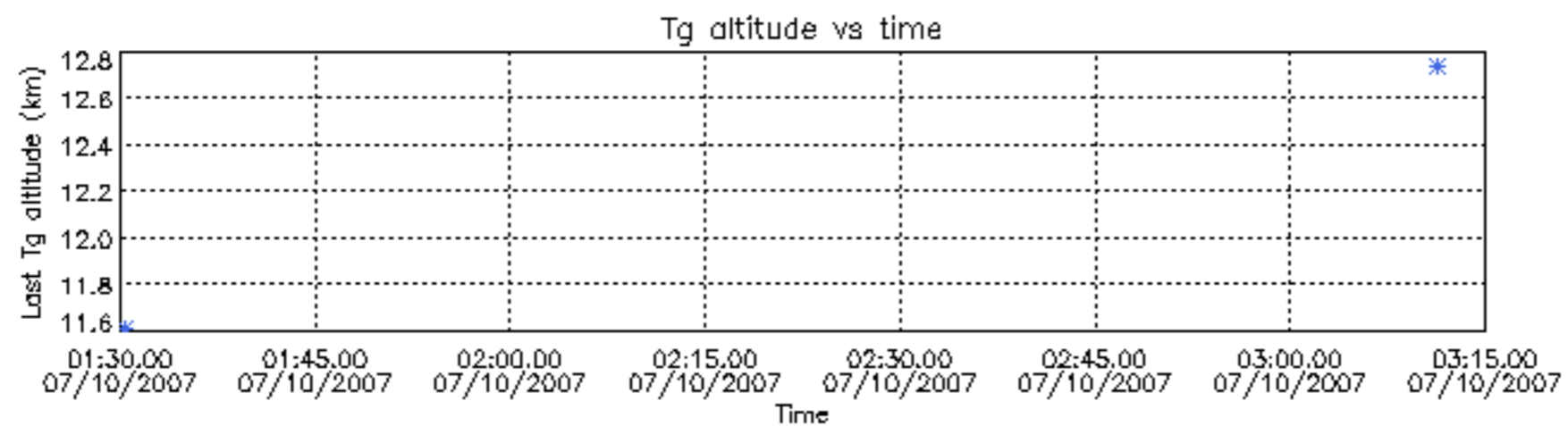
Tangent altitude at which the star is lost



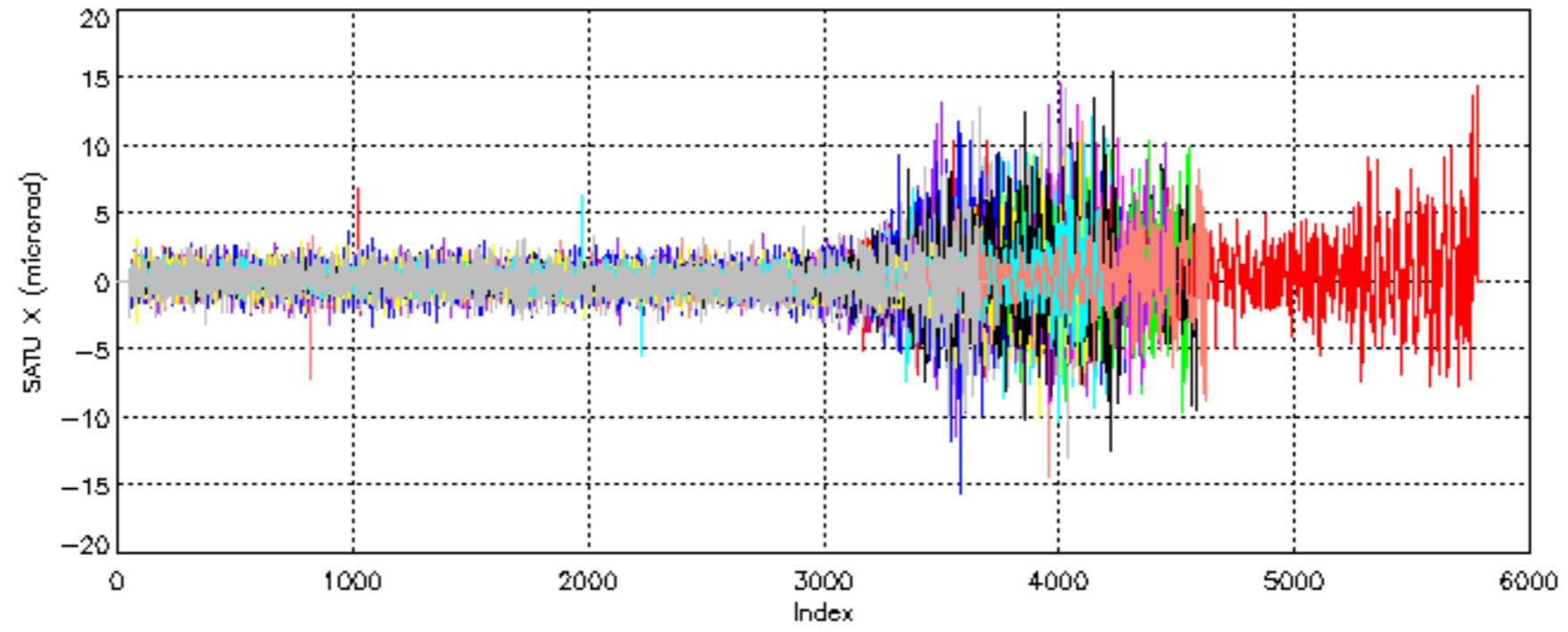
Tangent altitude at which the star is lost

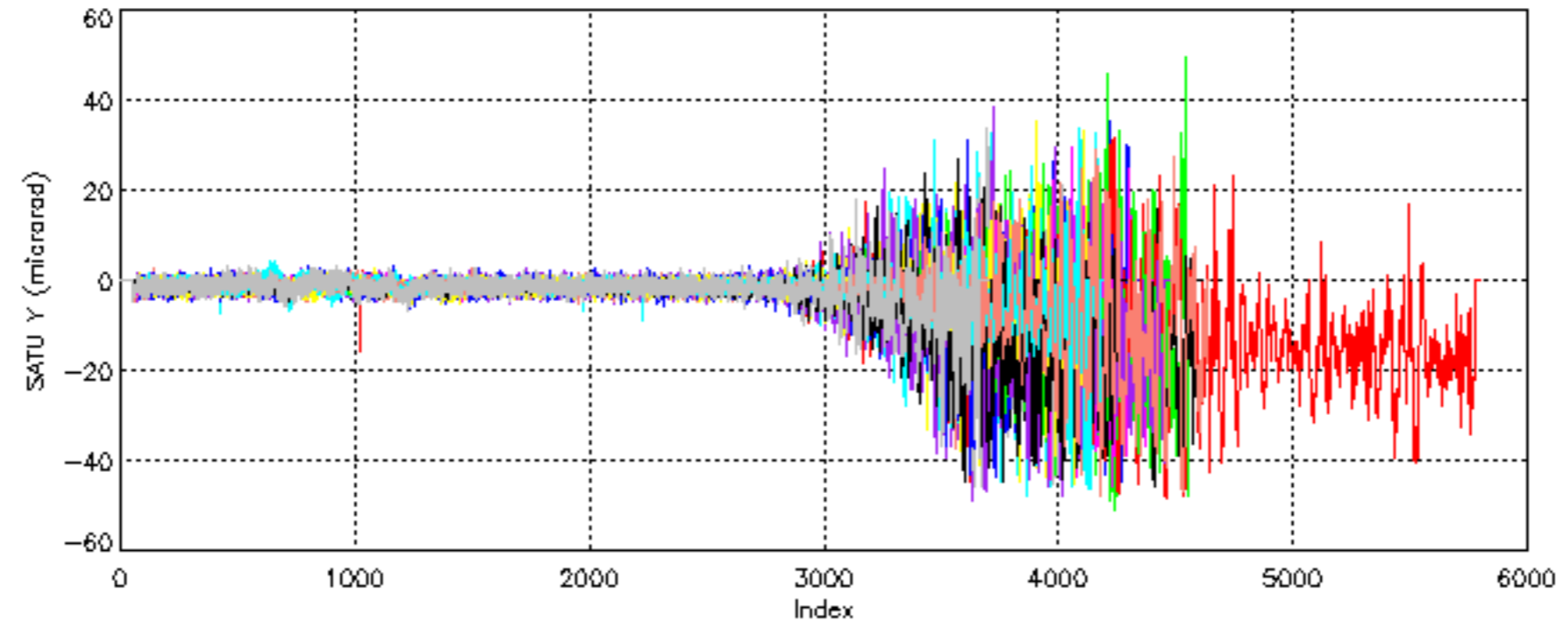


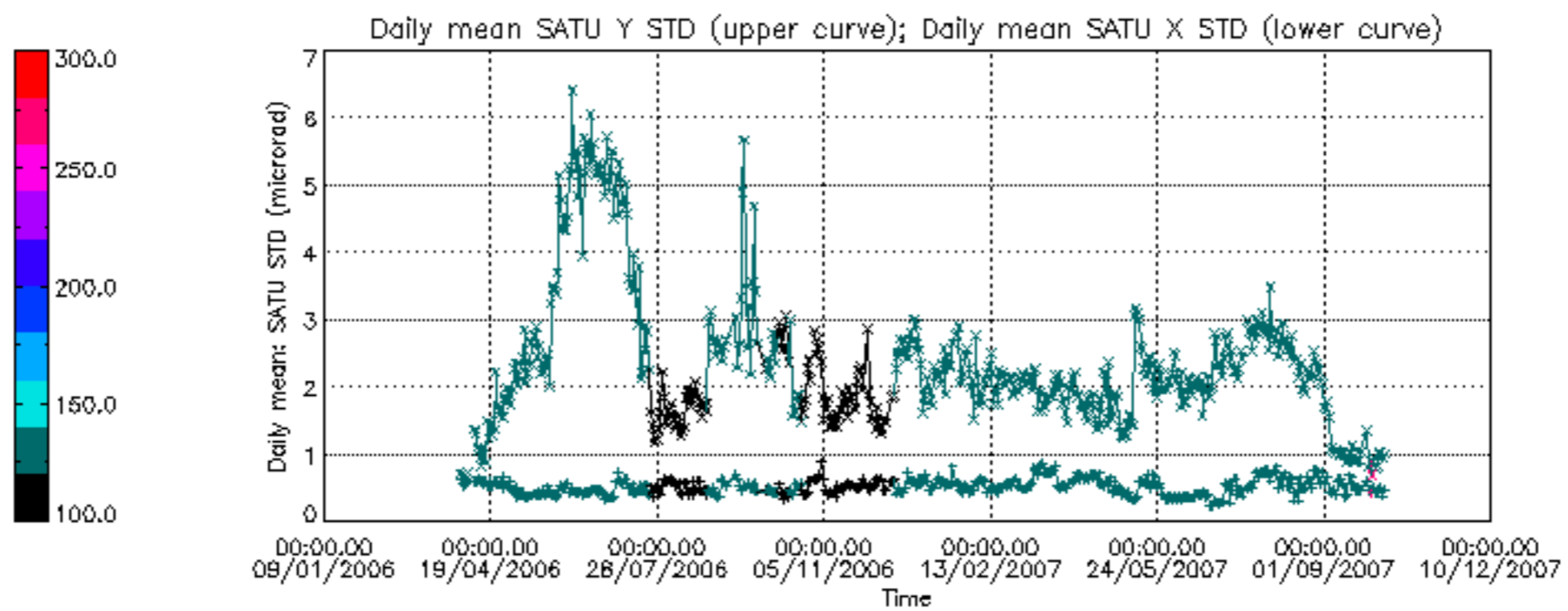
Tangent altitude at which the star is lost











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7; 827.7; 02-OCT-2007 23:02:12; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29228
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9; 1560.4; 02-OCT-2007 23:14:24; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29228
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16; 6061.9; 06-OCT-2007 08:58:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;29276  
17; 6176.4; 06-OCT-2007 09:00:05; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29276  
18; 6260.6; 06-OCT-2007 09:01:29; Dark ; 42.0; 2; Alp Car ;-0.74; 7000;occ; 84; 0;29276  
19; 6794.1; 06-OCT-2007 09:10:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29276  
20; 6881.6; 06-OCT-2007 09:11:50; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29276  
21; 7196.1; 06-OCT-2007 09:17:05; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29276  
22; 7603.2; 06-OCT-2007 09:23:52; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29276

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1; -839.5; 07-OCT-2007 01:29:44; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29286  
2; -260.2; 07-OCT-2007 01:39:24; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29286  
3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286  
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286  
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287  
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287  
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287  
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287  
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287  
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287  
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287  
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287  
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287  
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287  
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287  
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

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2;-2031.4; 07-OCT-2007 02:50:28; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29287  
3;-1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287  
4;-1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287  
5;-1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287  
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287  
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287  
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287  
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287  
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288  
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288  
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288  
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288  
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288  
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288  
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288  
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288  
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288  
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288  
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288  
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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2;-2031.3; 07-OCT-2007 04:31:04; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29288  
3;-1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288  
4;-1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288  
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288  
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288  
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288  
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288  
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289



11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289  
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289  
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289  
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289  
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289  
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289  
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 2; 158.7; 07-OCT-2007 23:34:10; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29300  
 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300  
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300  
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300  
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300  
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300  
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300  
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300  
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300  
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300  
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300  
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300  
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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1; -2122.6; 07-OCT-2007 06:10:09; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29289  
 2; -2031.2; 07-OCT-2007 06:11:41; Bright; 32.0; 82; 48Bet UMa ; 2.37; 10600;occ; 64; 0;29289  
 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289  
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289  
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289  
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 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289  
 8; -64.0; 07-OCT-2007 06:44:28; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29289  
 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290  
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290  
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290  
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290  
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 2; 2390.3; 07-OCT-2007 07:25:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29290  
 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290  
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290  
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290  
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290  
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290  
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290  
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290  
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290  
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290  
 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290  
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290  
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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3; 2917.2; 07-OCT-2007 09:14:45; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29291
4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
12; 5877.3; 07-OCT-2007 10:04:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;29291
13; 5972.8; 07-OCT-2007 10:05:40; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29291
14; 6060.1; 07-OCT-2007 10:07:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29291
15; 6188.2; 07-OCT-2007 10:09:16; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29291
16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
18; 6886.8; 07-OCT-2007 10:20:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29291
19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
20; 7605.3; 07-OCT-2007 10:32:53; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29291
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2; 2171.8; 07-OCT-2007 10:42:55; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;29292
3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
14; 5878.0; 07-OCT-2007 11:44:42; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29292
15; 5973.2; 07-OCT-2007 11:46:17; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29292
16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29292
19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
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9; 4211.3; 12-OCT-2007 20:23:02; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29369
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 21; 7116.5; 21-OCT-2007 13:05:42; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;29493

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 12; 4696.5; 21-OCT-2007 14:05:57; Bright; 41.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 82; 0;29494  
 13; 5811.0; 21-OCT-2007 14:24:32; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;29494  
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 16; 6096.8; 21-OCT-2007 14:29:18; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;29494  
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 21; 7117.0; 21-OCT-2007 14:46:18; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29494

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 16; 6097.7; 21-OCT-2007 16:09:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;29495  
 17; 6198.1; 21-OCT-2007 16:11:35; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;29495  
 18; 6436.8; 21-OCT-2007 16:15:34; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29495  
 19; 6861.3; 21-OCT-2007 16:22:38; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29495  
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 21; 7117.7; 21-OCT-2007 16:26:54; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29495

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 4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496  
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 6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496  
 7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496  
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 19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496  
 20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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 5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
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 7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
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 12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497  
 13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497  
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 17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497  
 18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497  
 19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497  
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 6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499  
 7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499  
 8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499  
 9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499  
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17; 6201.3; 22-OCT-2007 12:18:49; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29507
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3; 2405.7; 22-OCT-2007 12:56:10; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29508
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5; 2873.7; 22-OCT-2007 13:03:58; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29508
6; 2951.6; 22-OCT-2007 13:05:15; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29508
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8; 3626.0; 22-OCT-2007 13:16:30; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29508
9; 3919.8; 22-OCT-2007 13:21:24; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29508
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11; 4224.0; 22-OCT-2007 13:26:28; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29508
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13; 5814.7; 22-OCT-2007 13:52:59; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29508
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16; 6082.7; 22-OCT-2007 13:57:27; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29508
17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
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12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
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14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
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16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
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 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512  
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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515  
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 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515  
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9; 61.7; 24-OCT-2007 07:52:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29534
10; 172.9; 24-OCT-2007 07:54:31; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29534
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