

# GOMOS Daily Report 18-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	20OCT2007 05:34:34
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19OCT2007 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)

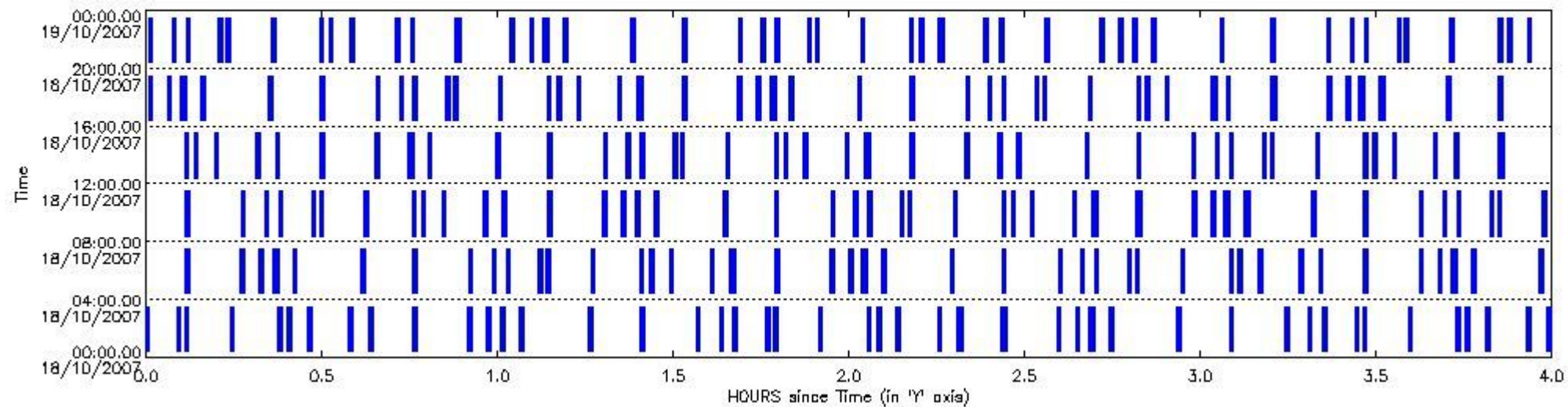
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

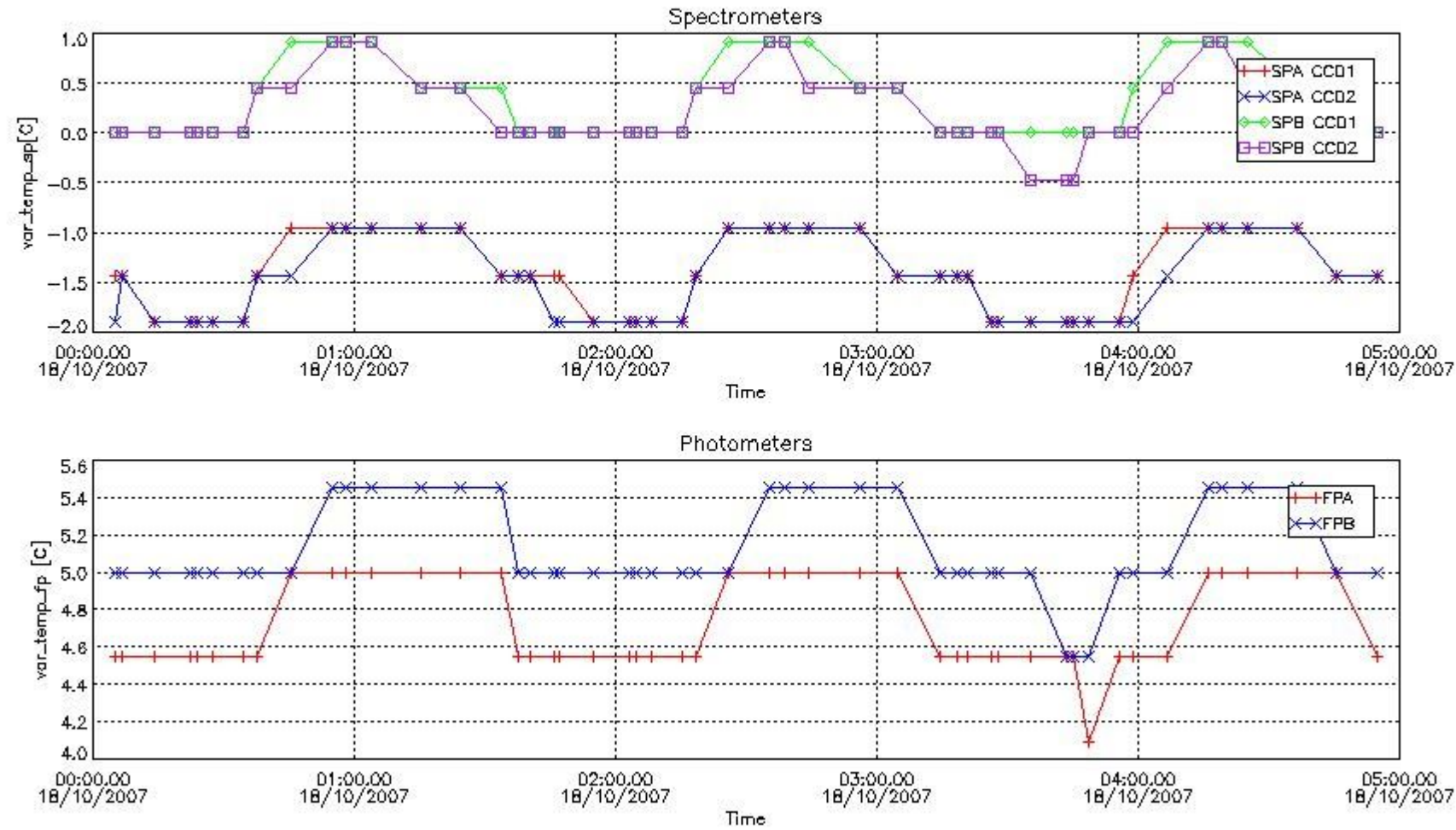
No missing products.

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

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071018_000511_000000352062_00331_29443_8862.N1	18-OCT-2007 00:05:11	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	29443	No
2	GOM_TRA_1PNPDE20071018_000631_000000362062_00331_29443_8863.N1	18-OCT-2007 00:06:31	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29443	No
3	GOM_TRA_1PNPDE20071018_001415_000000372062_00331_29443_8864.N1	18-OCT-2007 00:14:15	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29443	No
4	GOM_TRA_1PNPDE20071018_002229_000000372062_00331_29443_8865.N1	18-OCT-2007 00:22:29	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29443	No
5	GOM_TRA_1PNPDE20071018_002403_000000532062_00331_29443_8866.N1	18-OCT-2007 00:24:03	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	29443	No
6	GOM_TRA_1PNPDE20071018_002727_000000532062_00331_29443_8867.N1	18-OCT-2007 00:27:27	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29443	No
7	GOM_TRA_1PNPDE20071018_003430_000000442062_00331_29443_8868.N1	18-OCT-2007 00:34:30	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	29443	No
8	GOM_TRA_1PNPDE20071018_003748_000000582062_00331_29443_8869.N1	18-OCT-2007 00:37:48	Bright	58.000	22	32Alp Leo	1.3600	15200.	116	29443	No
9	GOM_TRA_1PNPDE20071018_004521_000000492062_00331_29443_8989.N1	18-OCT-2007 00:45:21	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	29443	No
10	GOM_TRA_1PNPDE20071018_005450_000000422062_00331_29443_8990.N1	18-OCT-2007 00:54:50	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29443	No
11	GOM_TRA_1PNPDE20071018_005805_000000452062_00332_29444_8991.N1	18-OCT-2007 00:58:05	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	29444	No
12	GOM_TRA_1PNPDE20071018_010343_000000502062_00332_29444_8992.N1	18-OCT-2007 01:03:43	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29444	No

13	GOM_TRA_1PNPDE20071018_011522_000000472062_00332_29444_8993.N1	18-OCT-2007 01:15:22	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	29444	No
14	GOM_TRA_1PNPDE20071018_012416_000000462062_00332_29444_8994.N1	18-OCT-2007 01:24:16	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	29444	No
15	GOM_TRA_1PNPDE20071018_013352_000000352062_00332_29444_8995.N1	18-OCT-2007 01:33:52	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29444	No
16	GOM_TRA_1PNPDE20071018_013748_000000372062_00332_29444_8996.N1	18-OCT-2007 01:37:48	Bright	36.500	58	21Alp And	2.0730	11000.	73	29444	No
17	GOM_TRA_1PNPDE20071018_014012_000000412062_00332_29444_8997.N1	18-OCT-2007 01:40:12	Bright	41.000	53	43Bet And	2.0480	3300.0	82	29444	No
18	GOM_TRA_1PNPDE20071018_014547_000000382062_00332_29444_8998.N1	18-OCT-2007 01:45:47	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29444	No
19	GOM_TRA_1PNPDE20071018_014707_000000382062_00332_29444_8999.N1	18-OCT-2007 01:47:07	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29444	No
20	GOM_TRA_1PNPDE20071018_015450_000000352062_00332_29444_9000.N1	18-OCT-2007 01:54:50	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29444	No
21	GOM_TRA_1PNPDE20071018_020305_000000372062_00332_29444_9001.N1	18-OCT-2007 02:03:05	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29444	No
22	GOM_TRA_1PNPDE20071018_020438_000000532062_00332_29444_9002.N1	18-OCT-2007 02:04:38	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	29444	No
23	GOM_TRA_1PNPDE20071018_020803_000000412062_00332_29444_9003.N1	18-OCT-2007 02:08:03	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	29444	No
24	GOM_TRA_1PNPDE20071018_021506_000000422062_00332_29444_9004.N1	18-OCT-2007 02:15:06	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	29444	No
25	GOM_TRA_1PNPDE20071018_021824_000000582062_00332_29444_9005.N1	18-OCT-2007 02:18:24	Bright	57.500	22	32Alp Leo	1.3600	15200.	115	29444	No
26	GOM_TRA_1PNPDE20071018_022557_000000532062_00332_29444_9141.N1	18-OCT-2007 02:25:57	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	29444	No
27	GOM_TRA_1PNPDE20071018_023527_000000422062_00332_29444_9142.N1	18-OCT-2007 02:35:27	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	29444	No
28	GOM_TRA_1PNPDE20071018_023841_000000432062_00333_29445_9143.N1	18-OCT-2007 02:38:41	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29445	No
29	GOM_TRA_1PNPDE20071018_024420_000000472062_00333_29445_9144.N1	18-OCT-2007 02:44:20	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29445	No
30	GOM_TRA_1PNPDE20071018_025558_000000452062_00333_29445_9145.N1	18-OCT-2007 02:55:58	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	29445	No
31	GOM_TRA_1PNPDE20071018_030452_000000412062_00333_29445_9146.N1	18-OCT-2007 03:04:52	Straylight	41.000	52	16Bet Cet	2.0370	4500.0	82	29445	No
32	GOM_TRA_1PNPDE20071018_031428_000000372062_00333_29445_9147.N1	18-OCT-2007 03:14:28	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29445	No
33	GOM_TRA_1PNPDE20071018_031824_000000372062_00333_29445_9148.N1	18-OCT-2007 03:18:24	Bright	36.500	58	21Alp And	2.0730	11000.	73	29445	No
34	GOM_TRA_1PNPDE20071018_032047_000000422062_00333_29445_9149.N1	18-OCT-2007 03:20:47	Bright	42.000	53	43Bet And	2.0480	3300.0	84	29445	No
35	GOM_TRA_1PNPDE20071018_032622_000000352062_00333_29445_9150.N1	18-OCT-2007 03:26:22	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29445	No
36	GOM_TRA_1PNPDE20071018_032743_000000362062_00333_29445_9151.N1	18-OCT-2007 03:27:43	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29445	No
37	GOM_TRA_1PNPDE20071018_033526_000000332062_00333_29445_9152.N1	18-OCT-2007 03:35:26	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29445	No
38	GOM_TRA_1PNPDE20071018_034341_000000382062_00333_29445_9358.N1	18-OCT-2007 03:43:41	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29445	No
39	GOM_TRA_1PNPDE20071018_034515_000000522062_00333_29445_9359.N1	18-OCT-2007 03:45:15	Bright	51.500	82	48Bet UMa	2.3650	10600.	103	29445	No
40	GOM_TRA_1PNPDE20071018_034839_000000502062_00333_29445_9360.N1	18-OCT-2007 03:48:39	Bright	50.000	174	52Psi UMa	3.0040	4400.0	100	29445	No
41	GOM_TRA_1PNPDE20071018_035542_000000442062_00333_29445_9361.N1	18-OCT-2007 03:55:42	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	29445	No
42	GOM_TRA_1PNPDE20071018_035900_000000582062_00333_29445_9362.N1	18-OCT-2007 03:59:00	Bright	58.000	22	32Alp Leo	1.3600	15200.	116	29445	No
43	GOM_TRA_1PNPDE20071018_040634_000000562062_00333_29445_9363.N1	18-OCT-2007 04:06:34	Dark	56.000	48	30Alp Hya	1.9770	4100.0	112	29445	No
44	GOM_TRA_1PNPDE20071018_041604_000000472062_00333_29445_9364.N1	18-OCT-2007 04:16:04	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	29445	No
45	GOM_TRA_1PNPDE20071018_041918_000000422062_00334_29446_9365.N1	18-OCT-2007 04:19:18	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	29446	No
46	GOM_TRA_1PNPDE20071018_042457_000000472062_00334_29446_9366.N1	18-OCT-2007 04:24:57	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29446	No
47	GOM_TRA_1PNPDE20071018_043635_000000452062_00334_29446_9367.N1	18-OCT-2007 04:36:35	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	29446	No
48	GOM_TRA_1PNPDE20071018_044528_000000402062_00334_29446_9368.N1	18-OCT-2007 04:45:28	Straylight	39.500	52	16Bet Cet	2.0370	4500.0	79	29446	No
49	GOM_TRA_1PNPDE20071018_045504_000000362062_00334_29446_9369.N1	18-OCT-2007 04:55:04	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29446	No

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



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

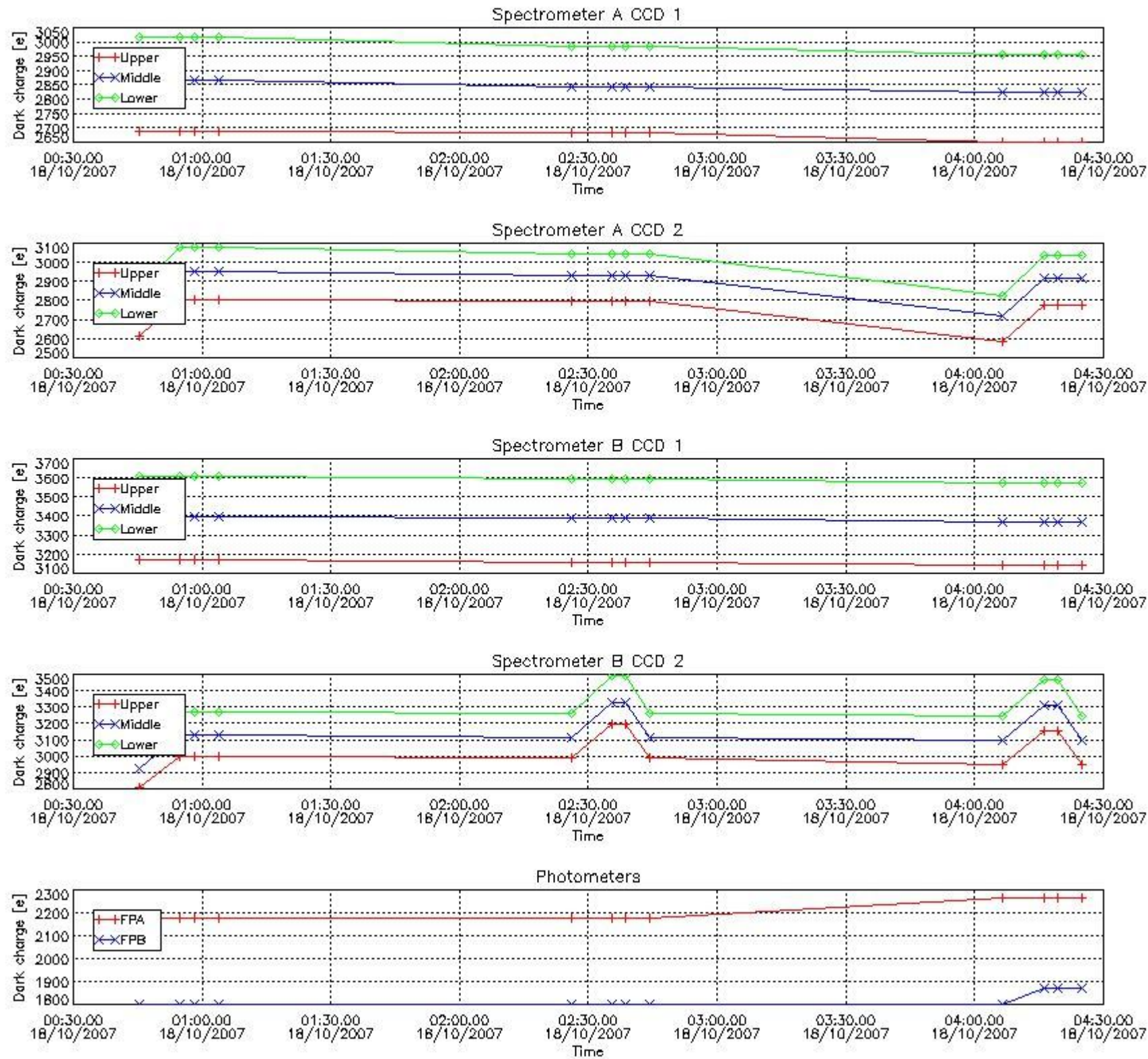
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





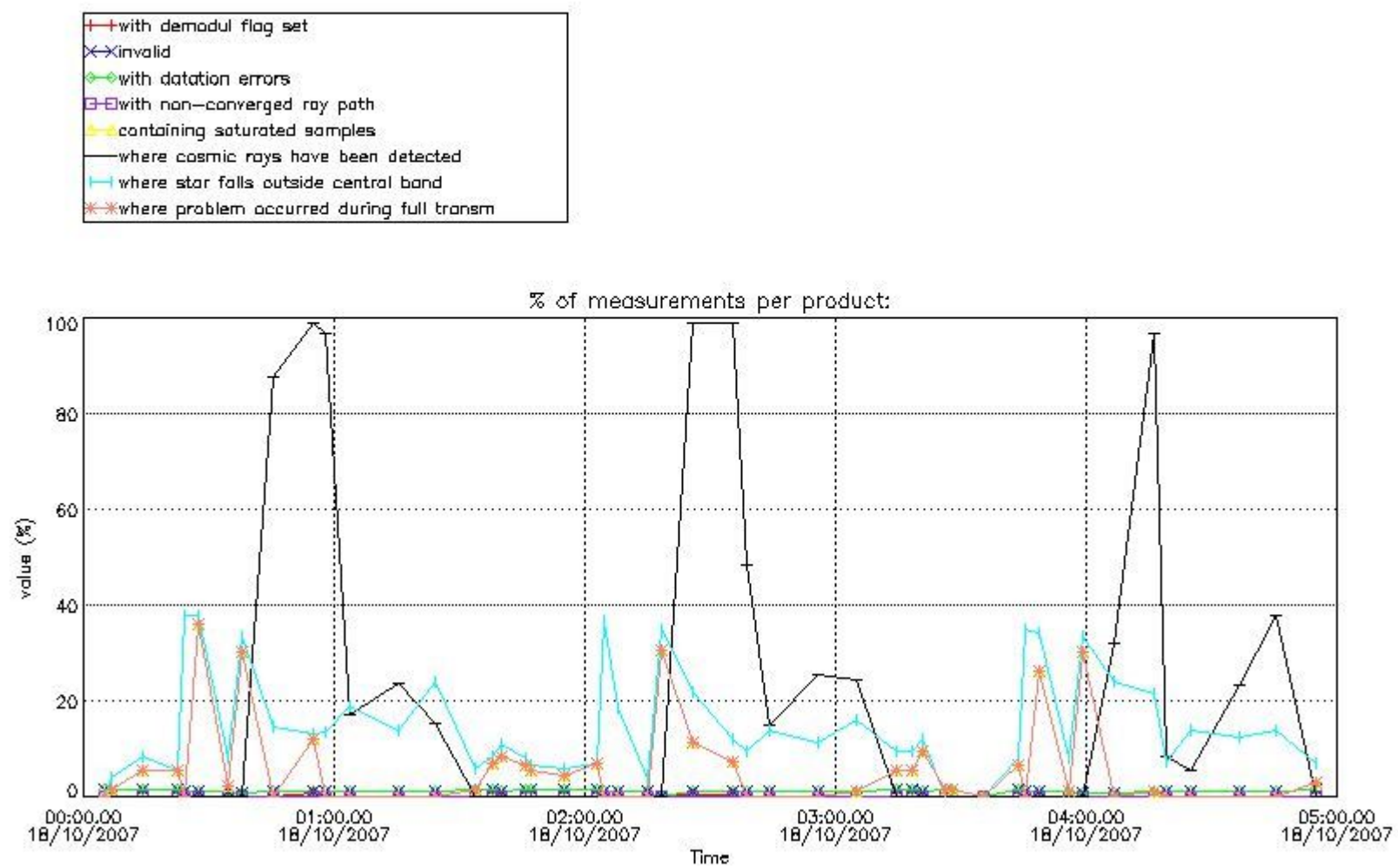
## 5. Demodulation flag and quality information monitoring

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:

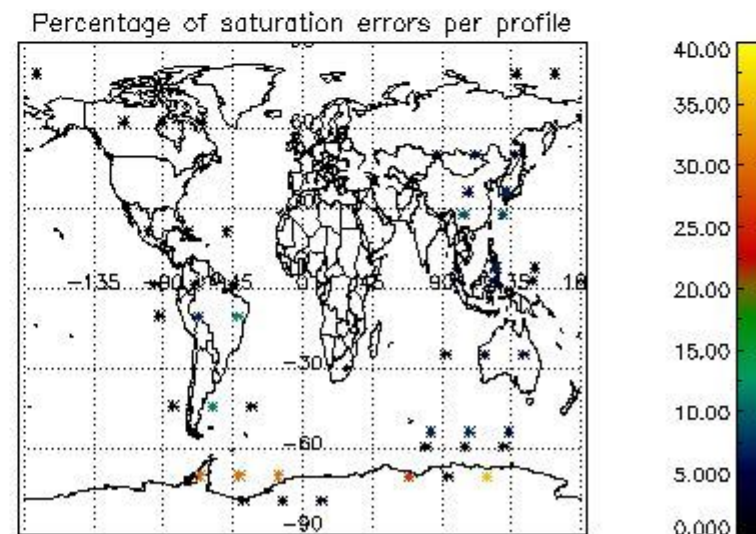
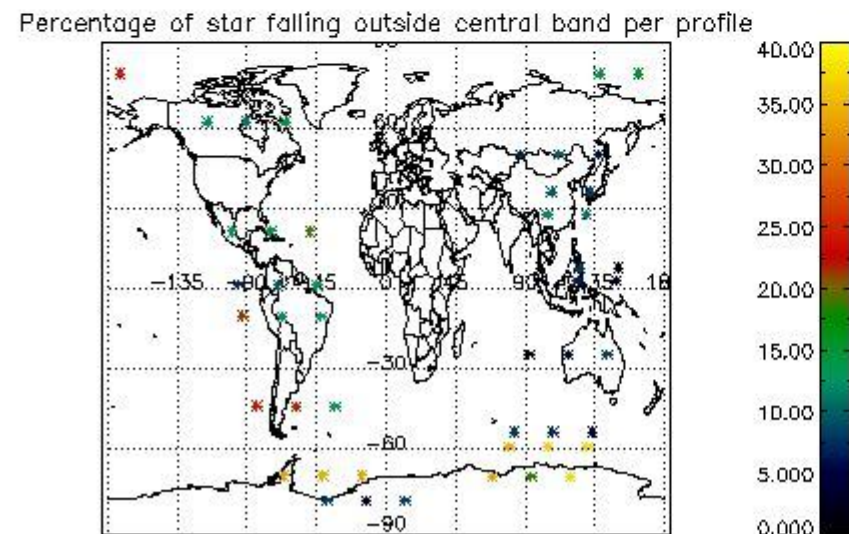
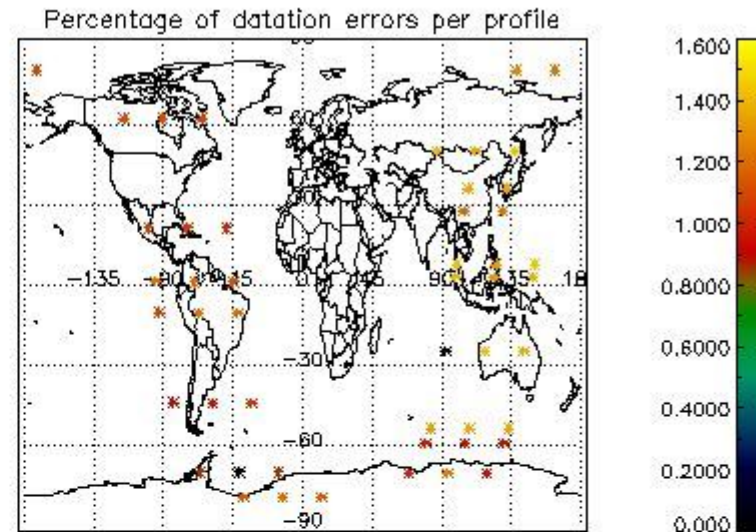
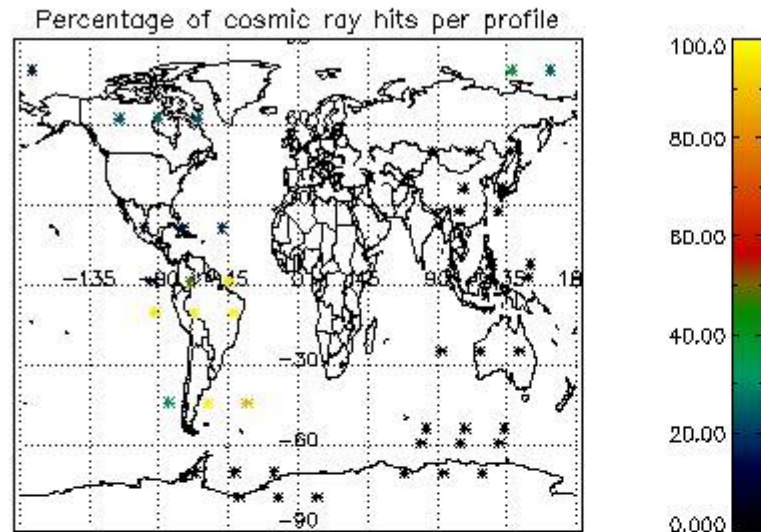
At least one measurement with demodulation flag set:	18.3673 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





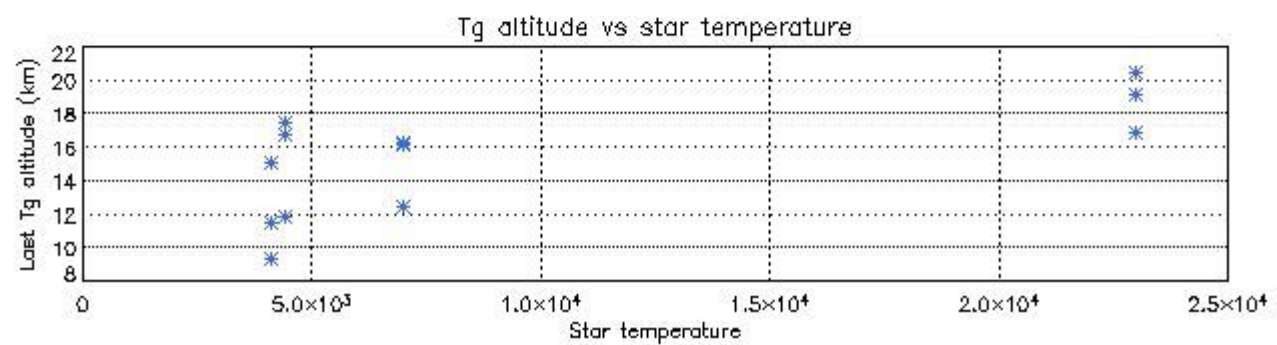
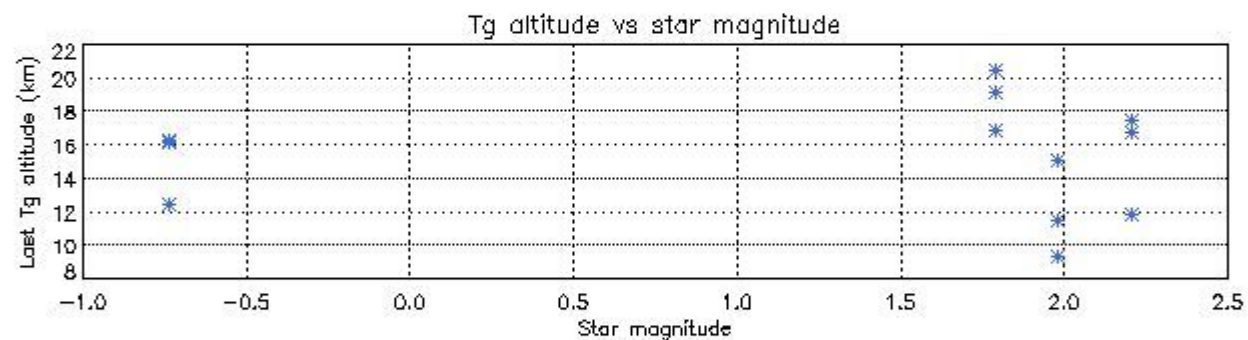
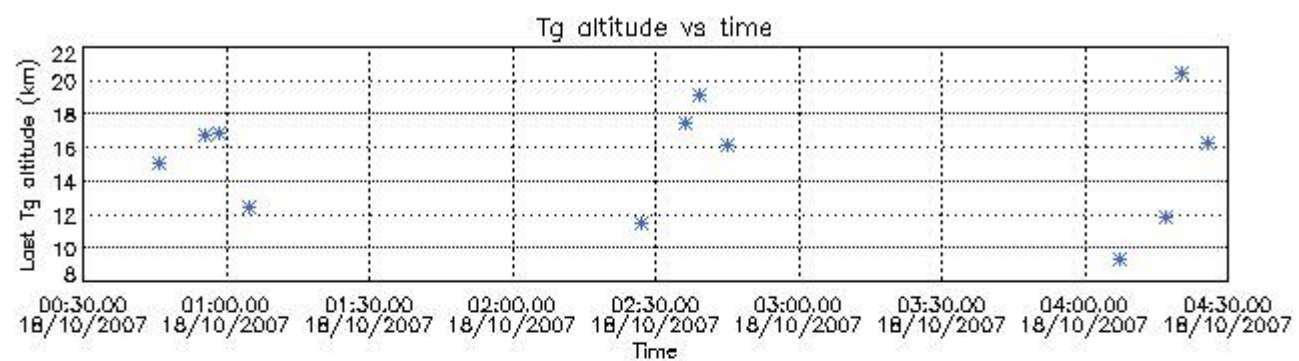
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.249	16.566	NaN
St. deviation:	3.3413	7.7691	NaN
Maximum:	20.423	28.670	NaN
Minimum:	9.2918	3.5697	NaN
Number of data:	12.000	31.000	NaN

### 6.2 Plot for DARK limb products

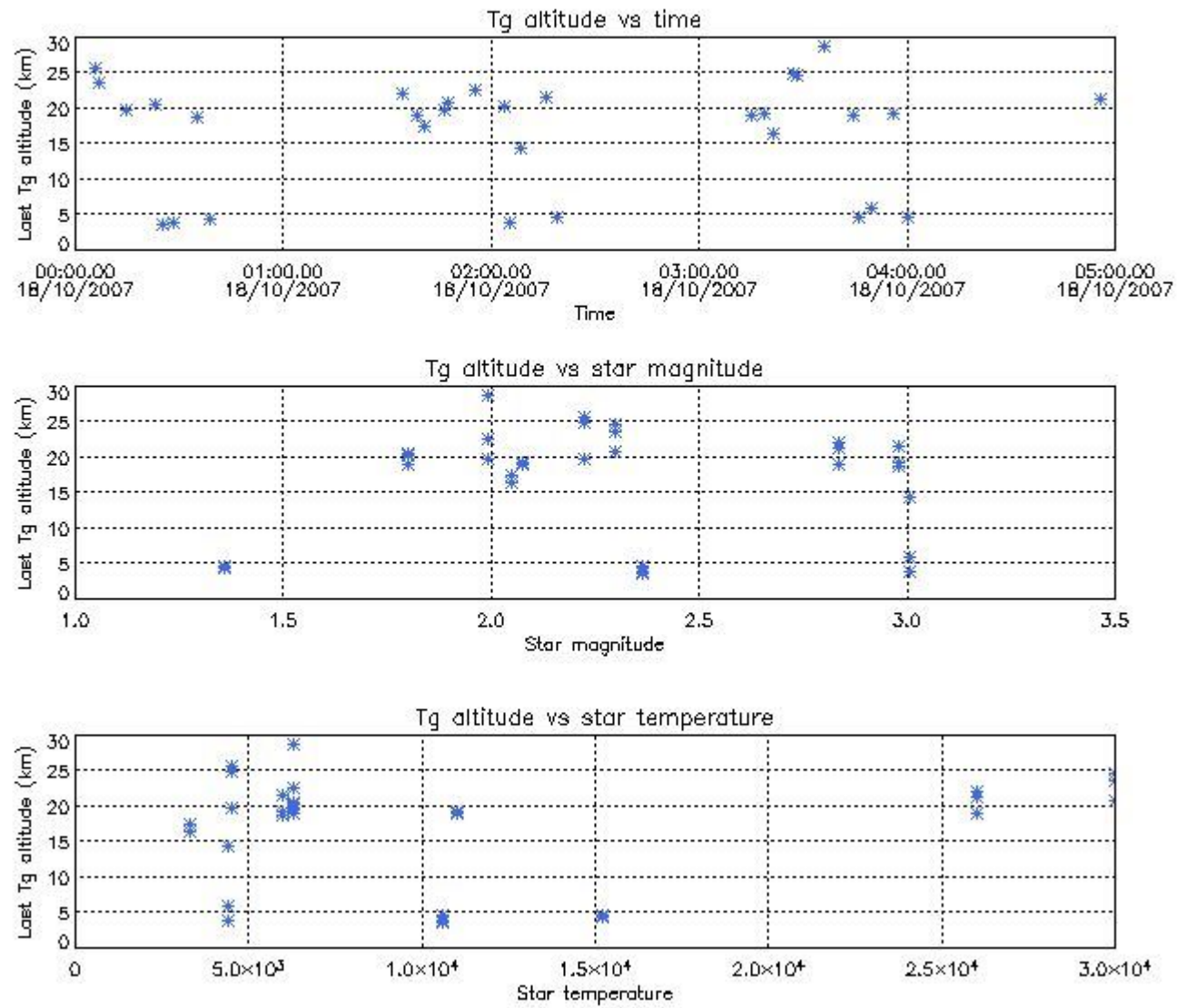
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

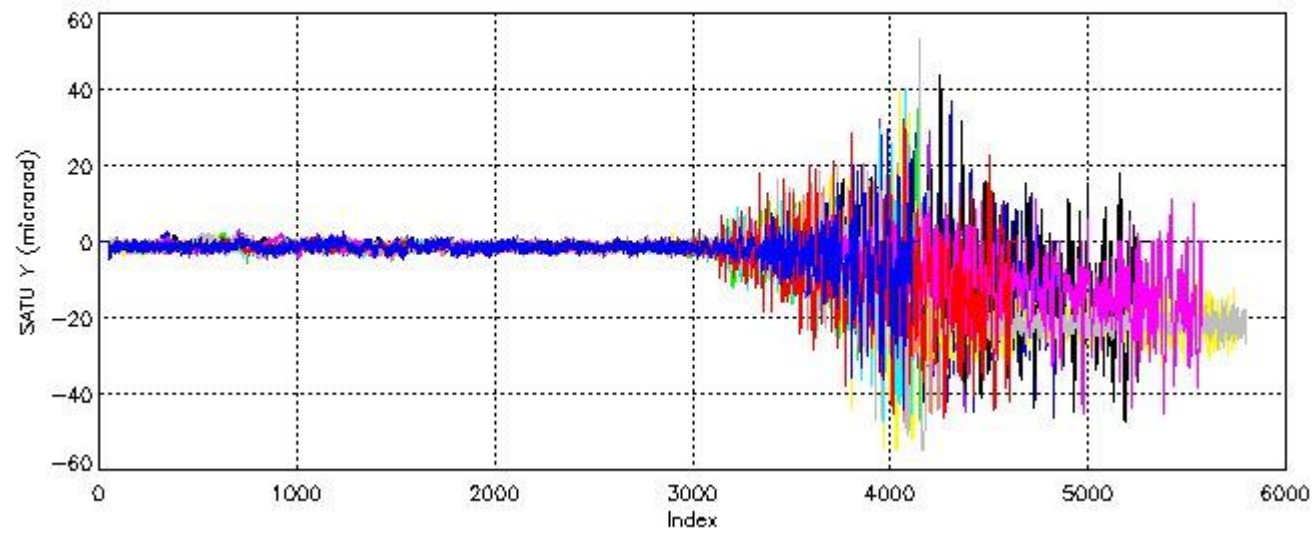
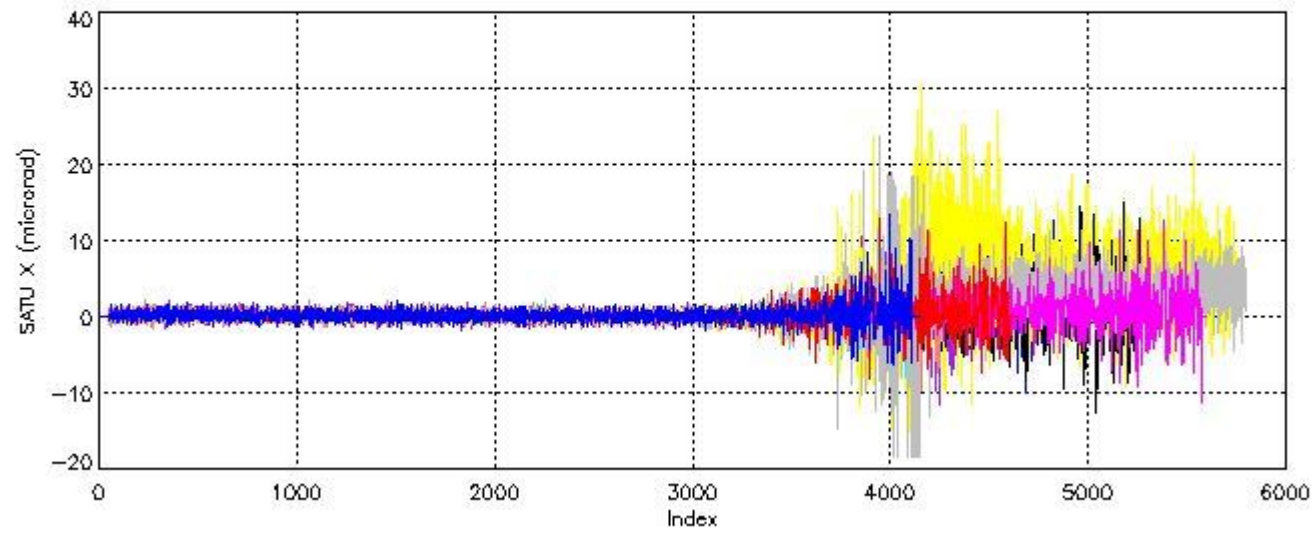


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26044	-1.1307	0.090370	-1.3628
St. deviation:	0.28045	0.87733	0.72280	1.4097
Maximum:	2.1000	2.9000	6.3000	7.0000
Minimum:	-1.5000	-5.7000	-5.6000	-8.7000

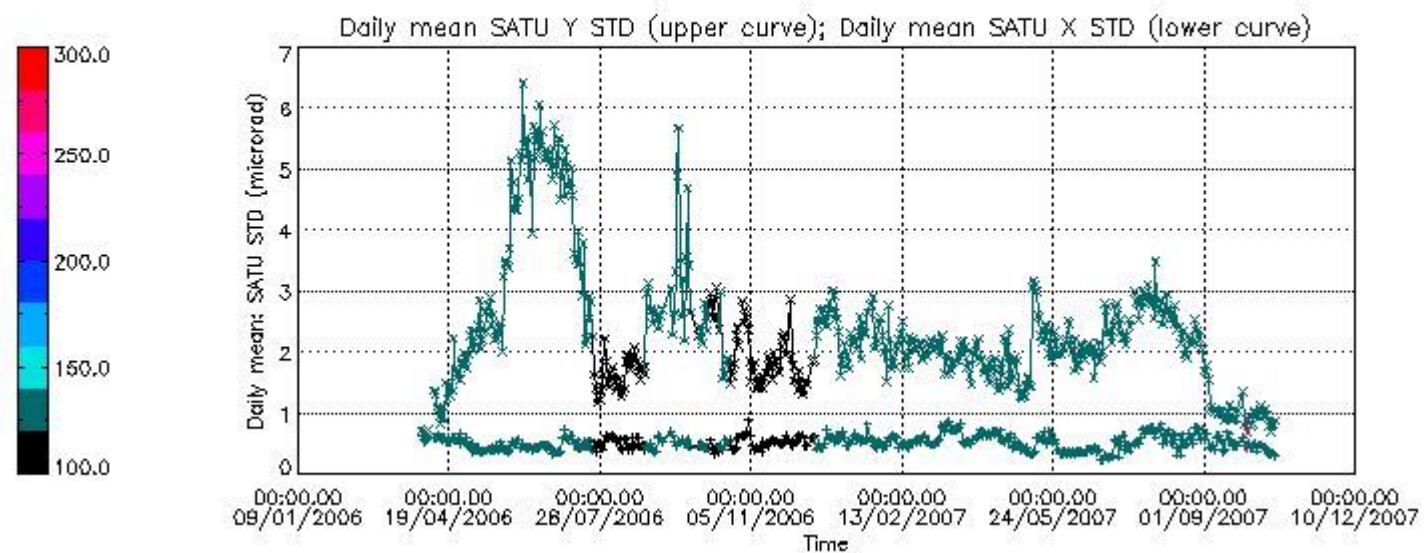
Number of data:	12150.	12150.	26450.	26450.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

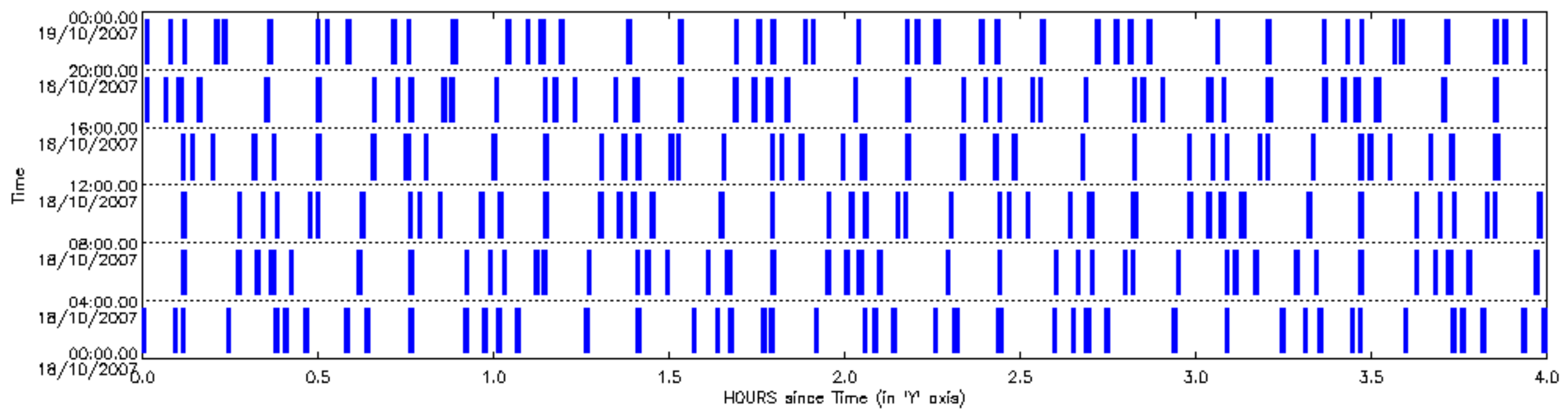


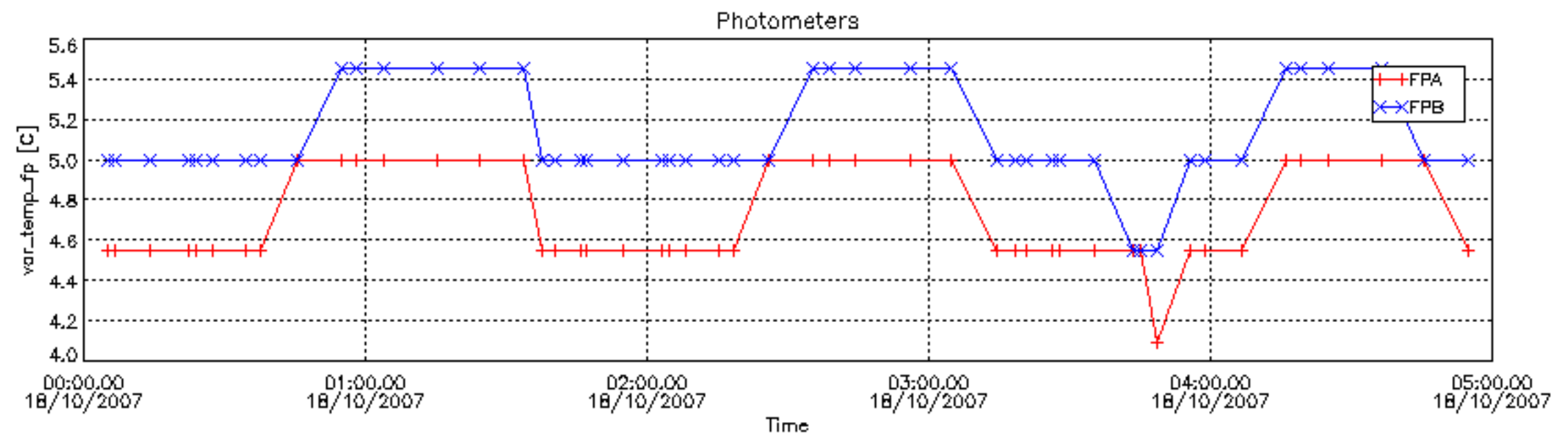
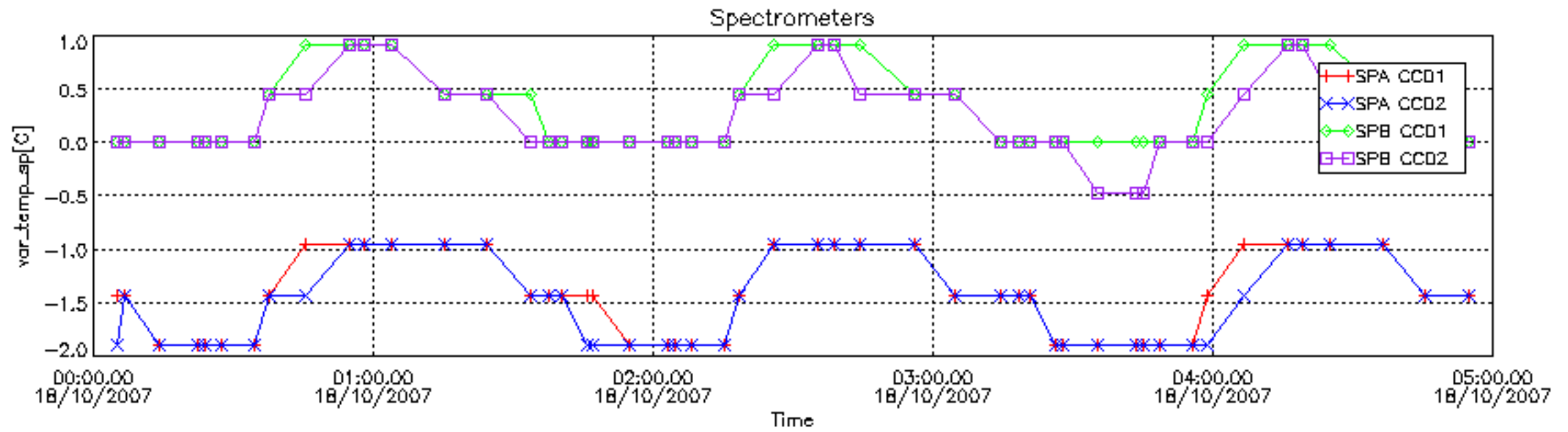
### 8. Auxiliary Data Files used for the production reported in section 2.4

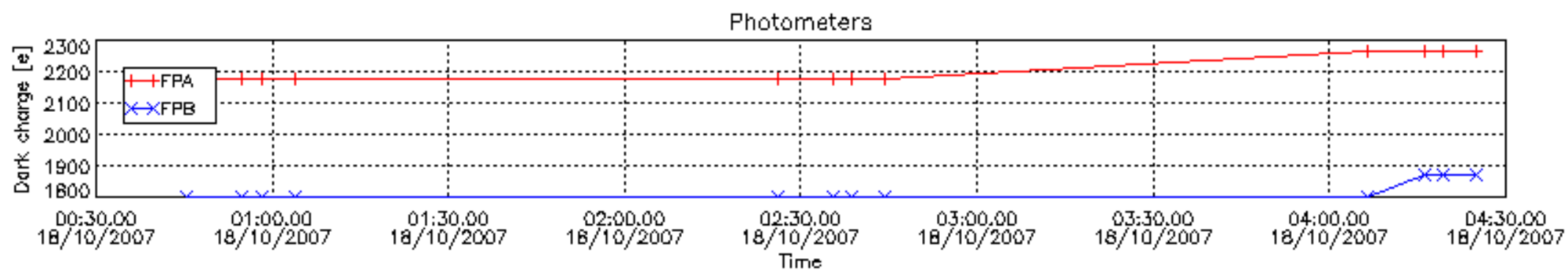
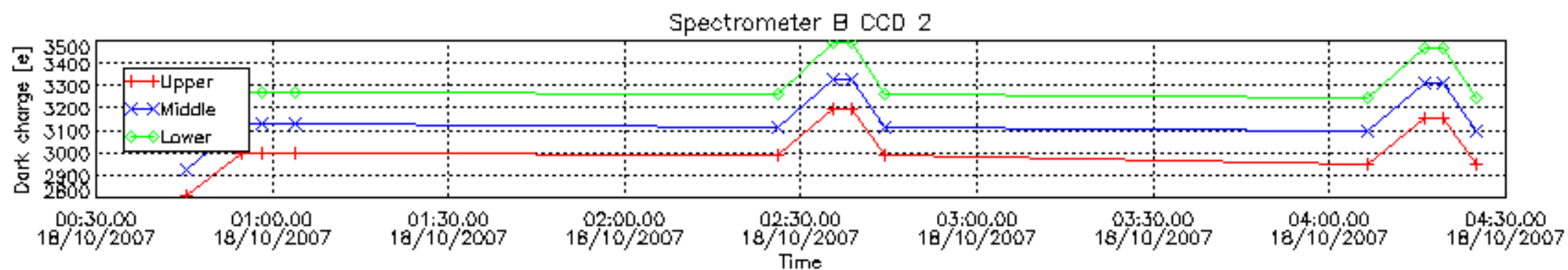
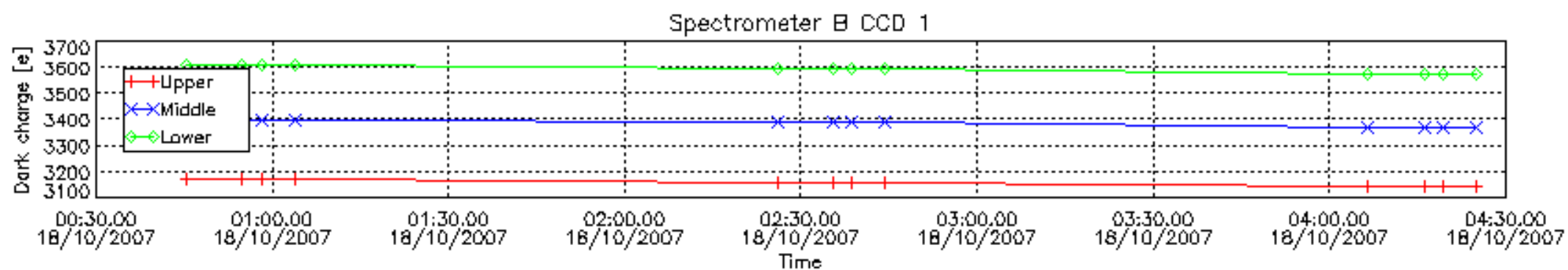
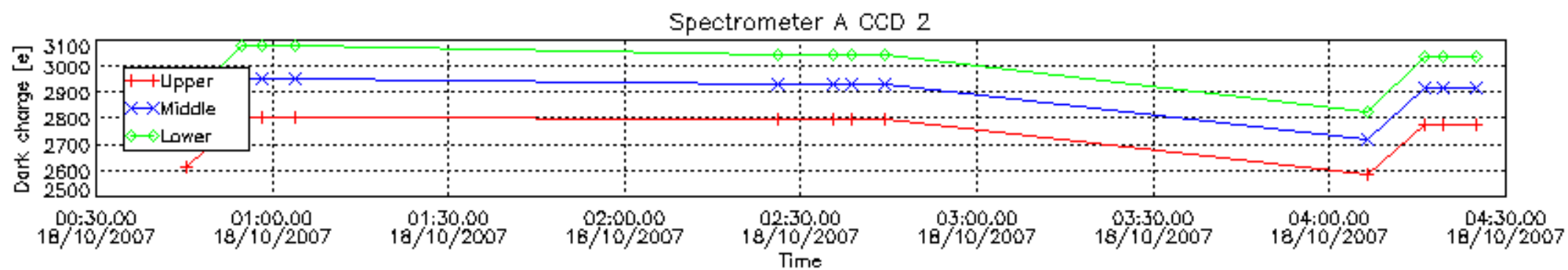
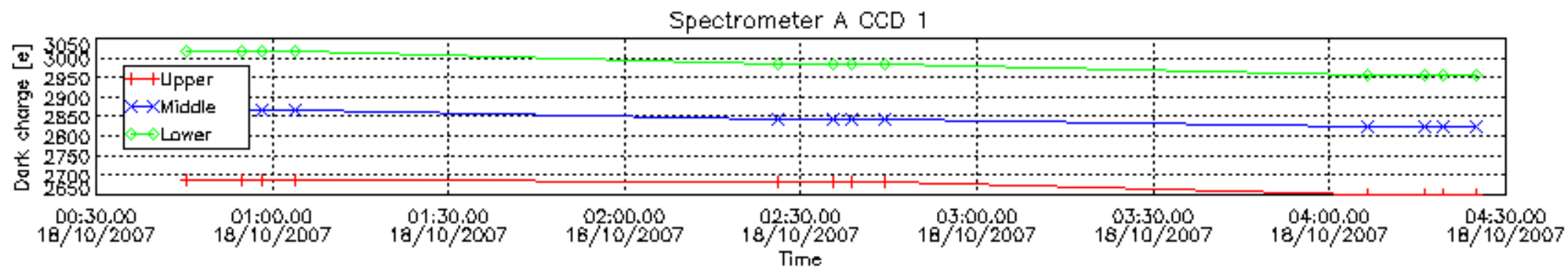
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-OCT-2007 00:05:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	18-OCT-2007 00:05:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-OCT-2007 00:05:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-OCT-2007 00:05:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-OCT-2007 00:05:11
ECMWF_FILE	AUX_ECF_AXNECM20071017_060113_20071017_210000_20071018_090000	1	18-OCT-2007 00:05:11
ECMWF_FILE	AUX_ECF_AXNECM20071017_180111_20071018_030000_20071018_150000	38	18-OCT-2007 03:43:41
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071018_004005_000054192062_00331_29443_4378.N1	26	18-OCT-2007 02:25:57
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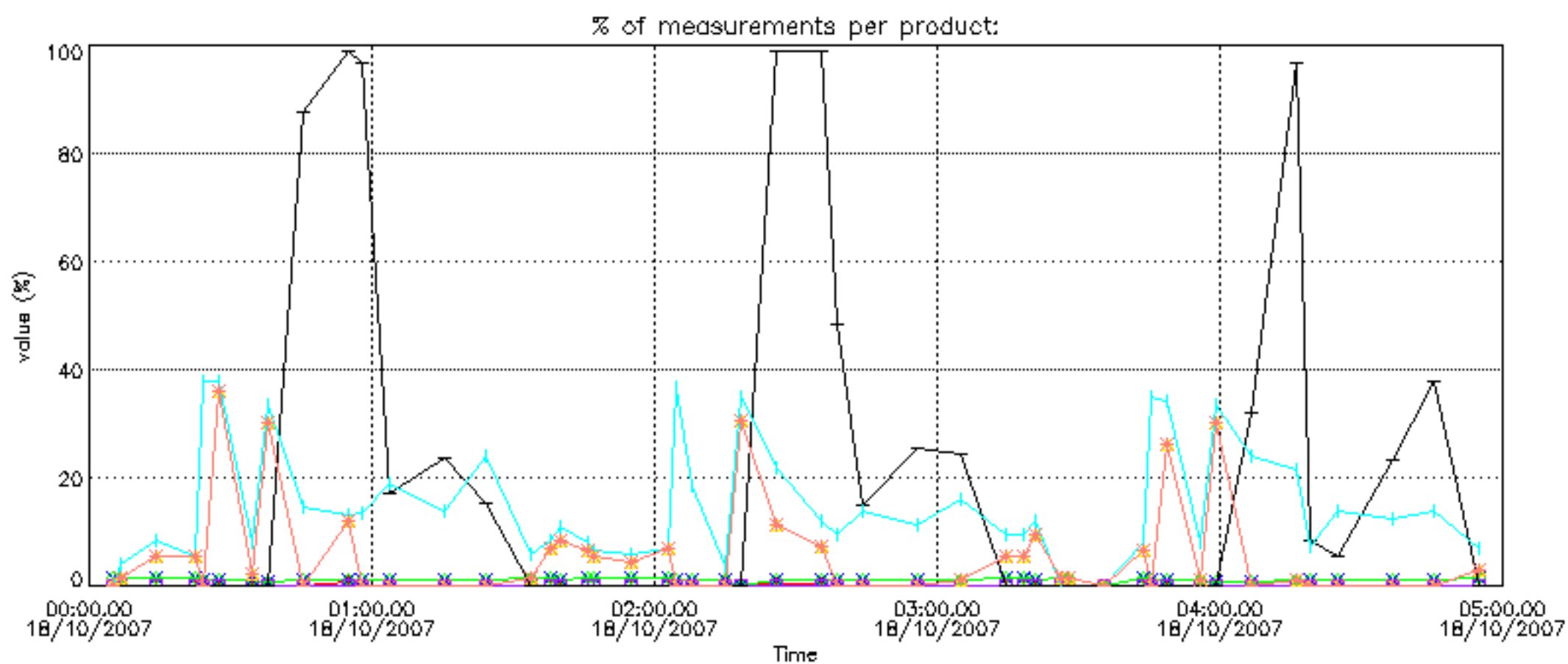




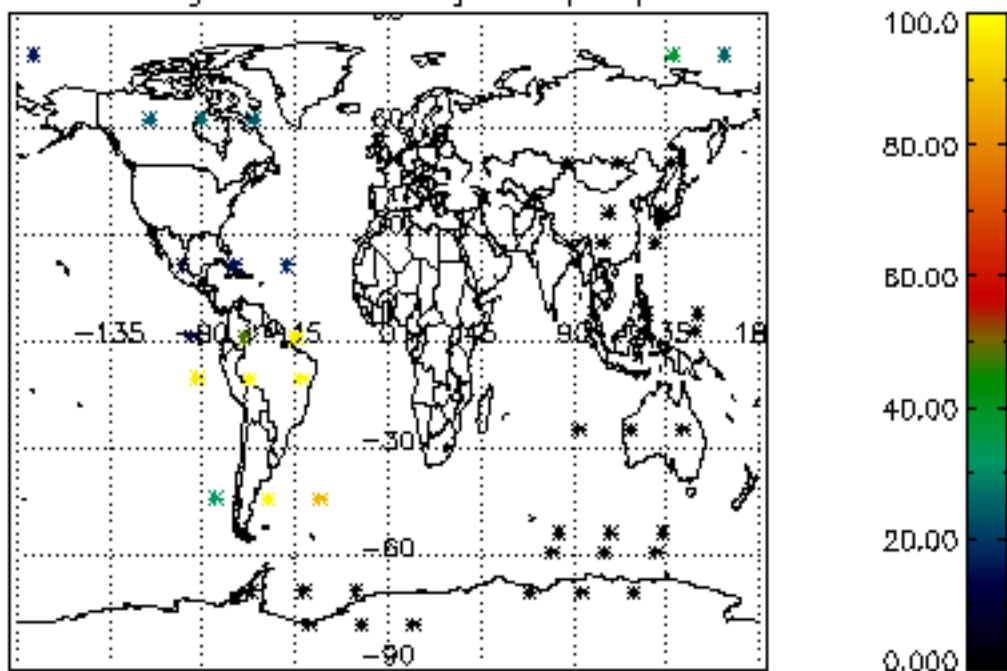




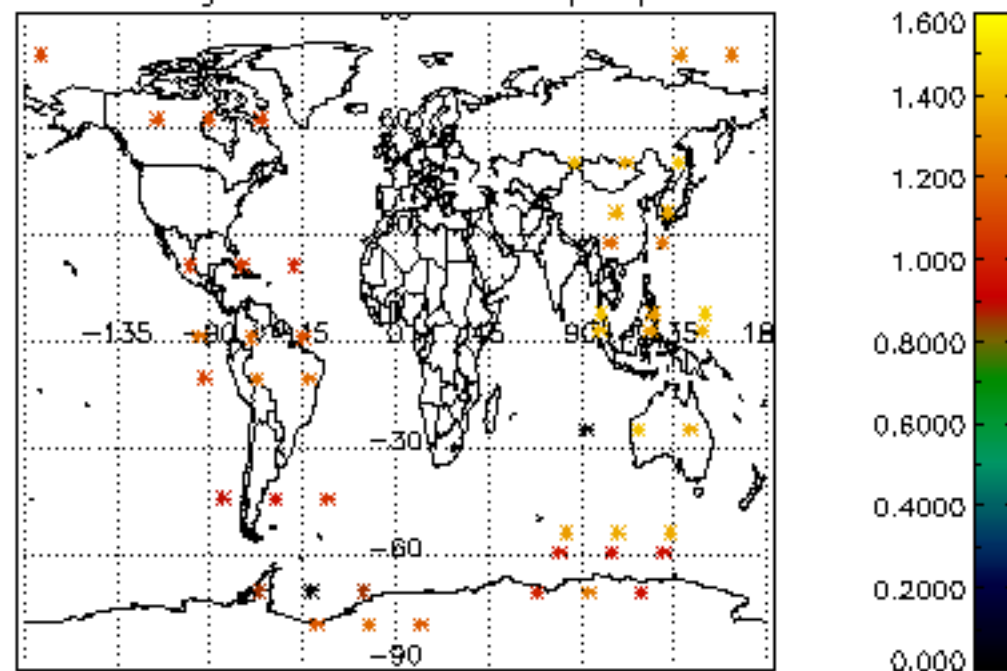




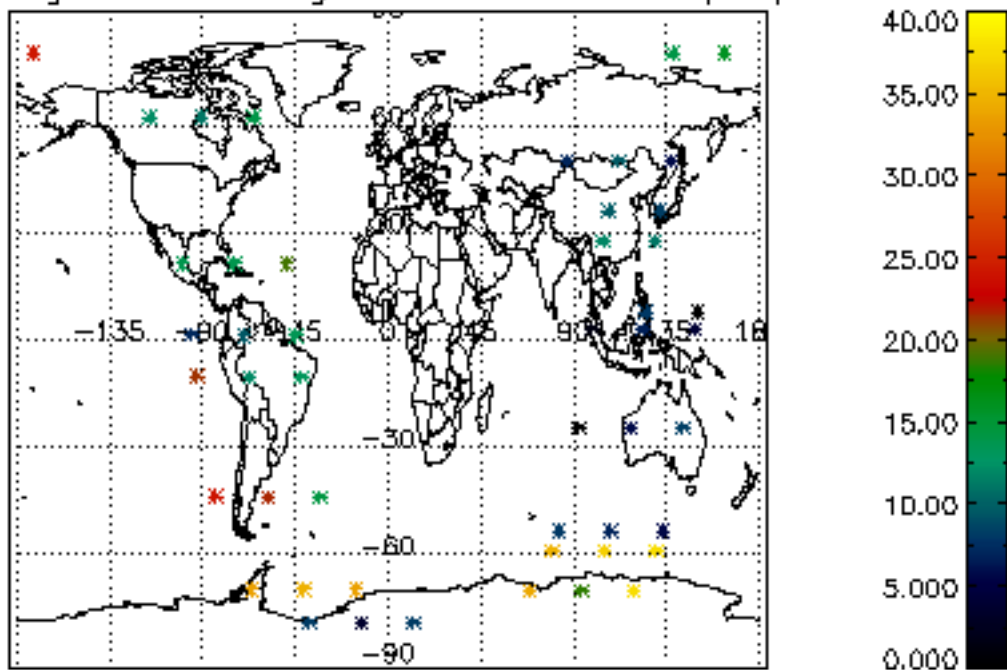
Percentage of cosmic ray hits per profile



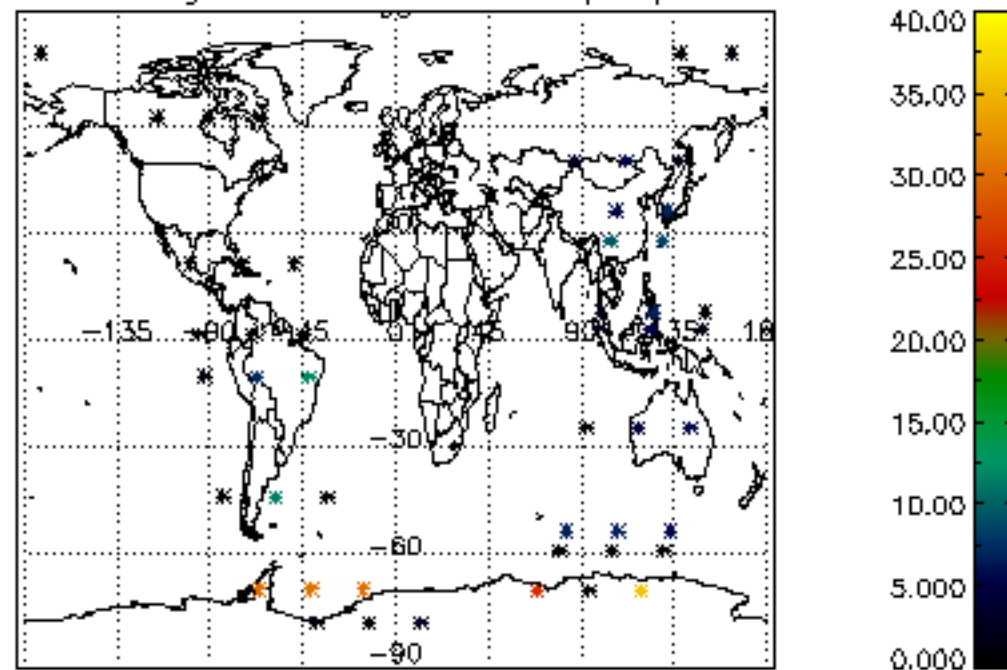
Percentage of datation errors per profile



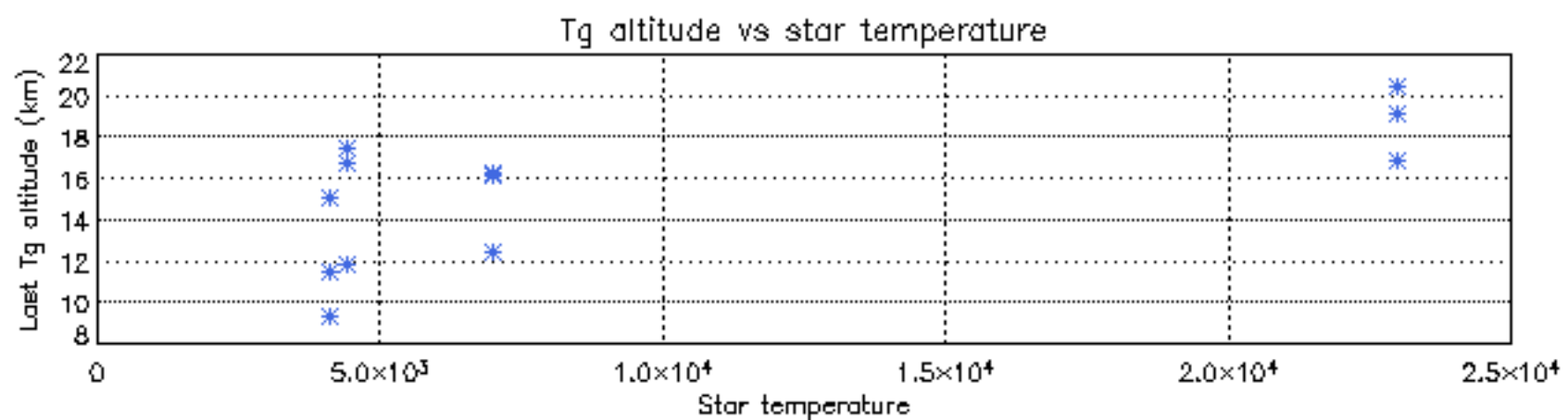
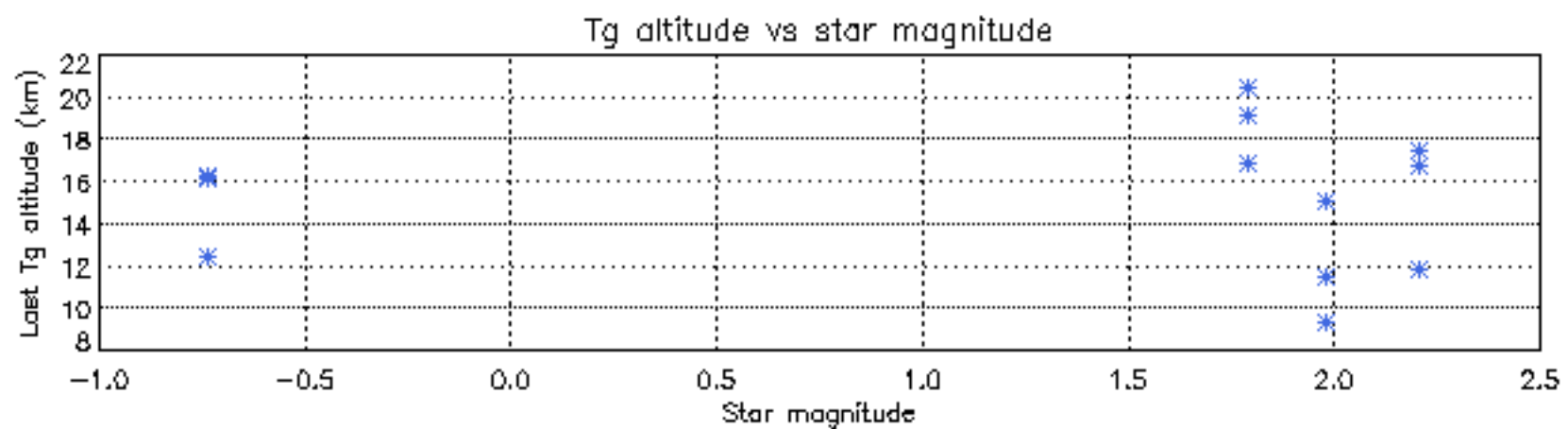
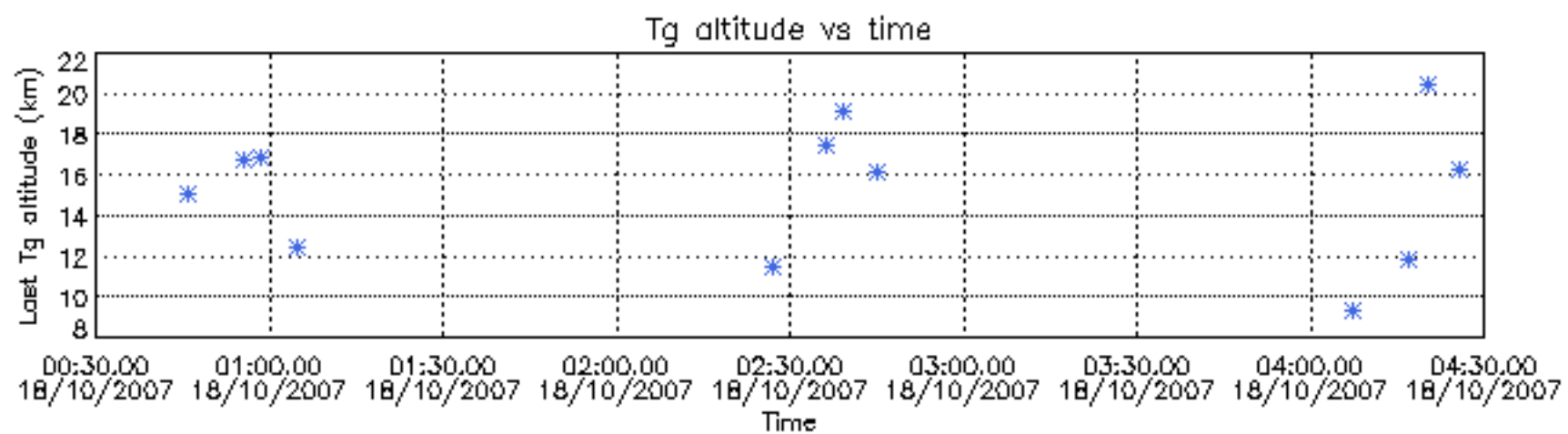
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

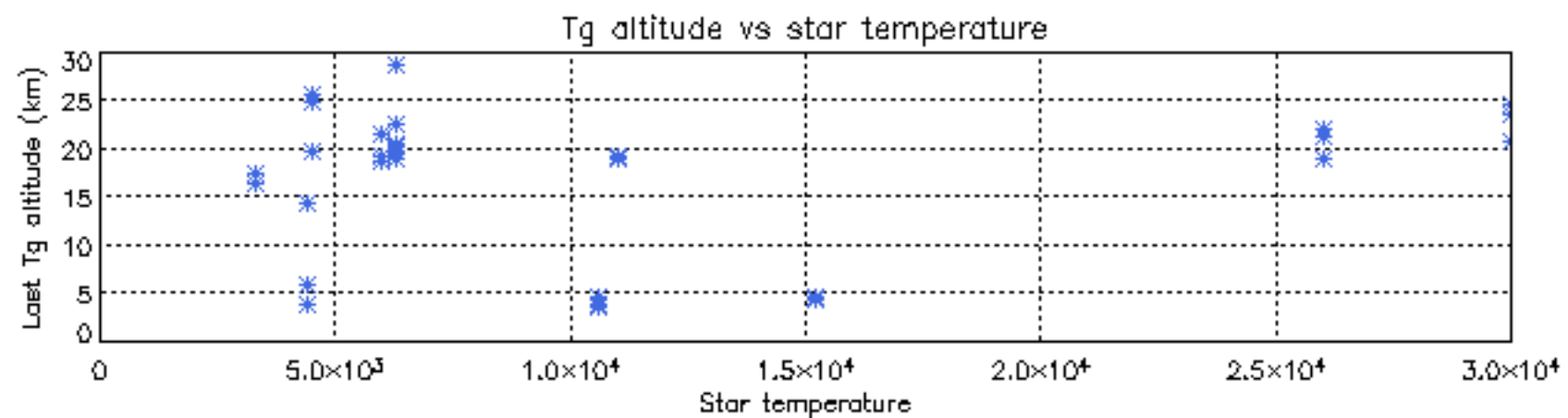
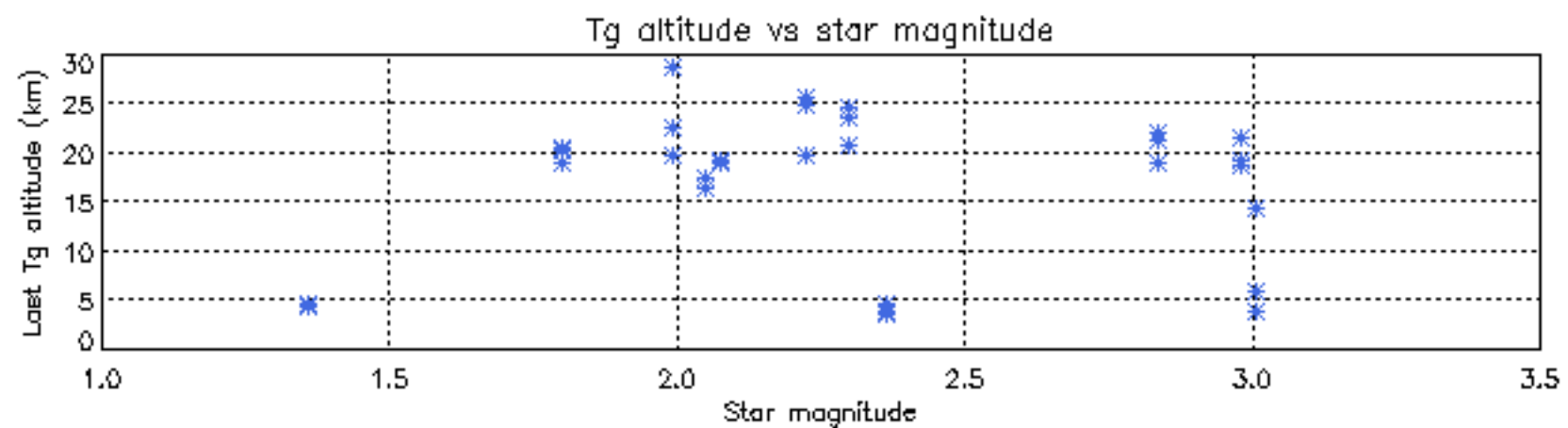
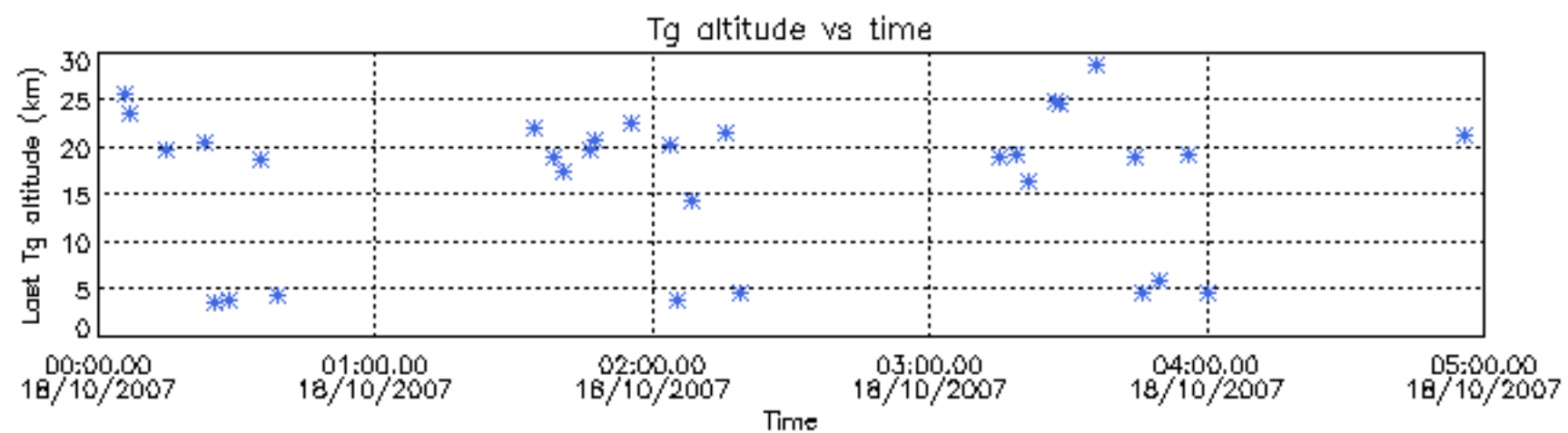


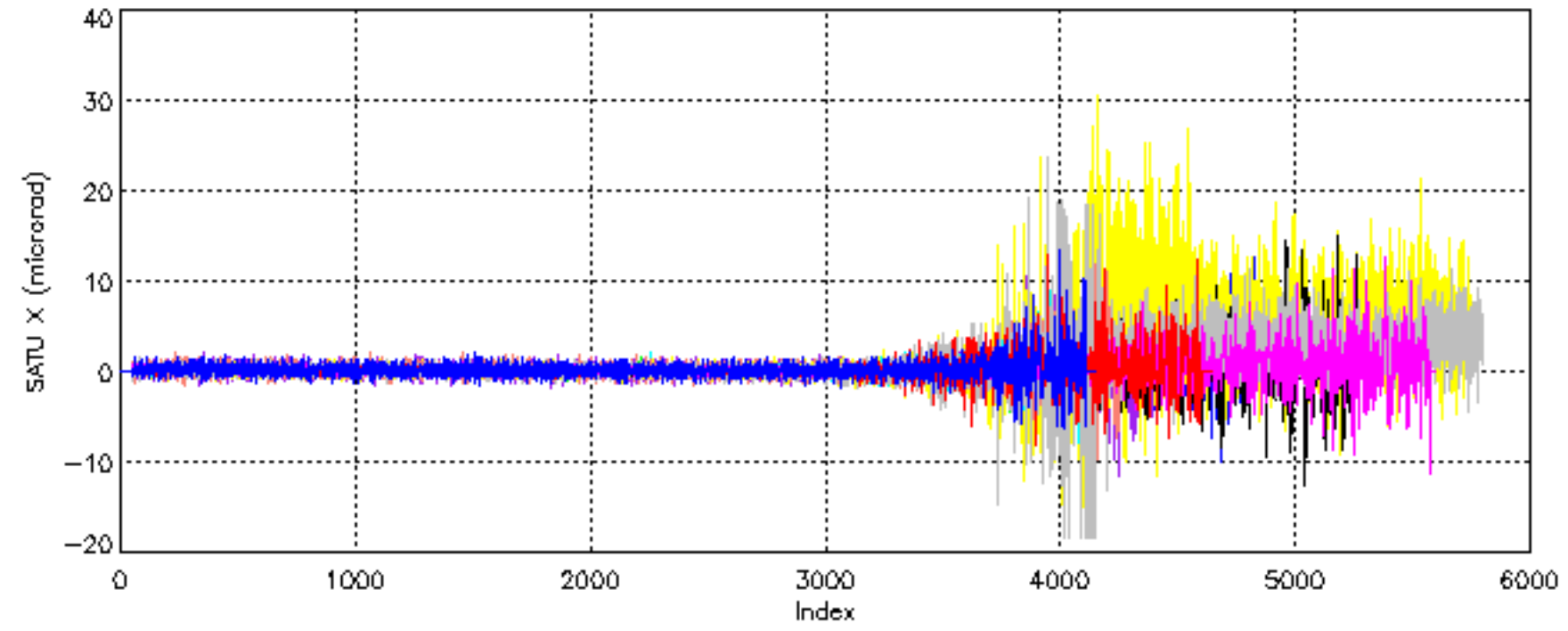
Tangent altitude at which the star is lost

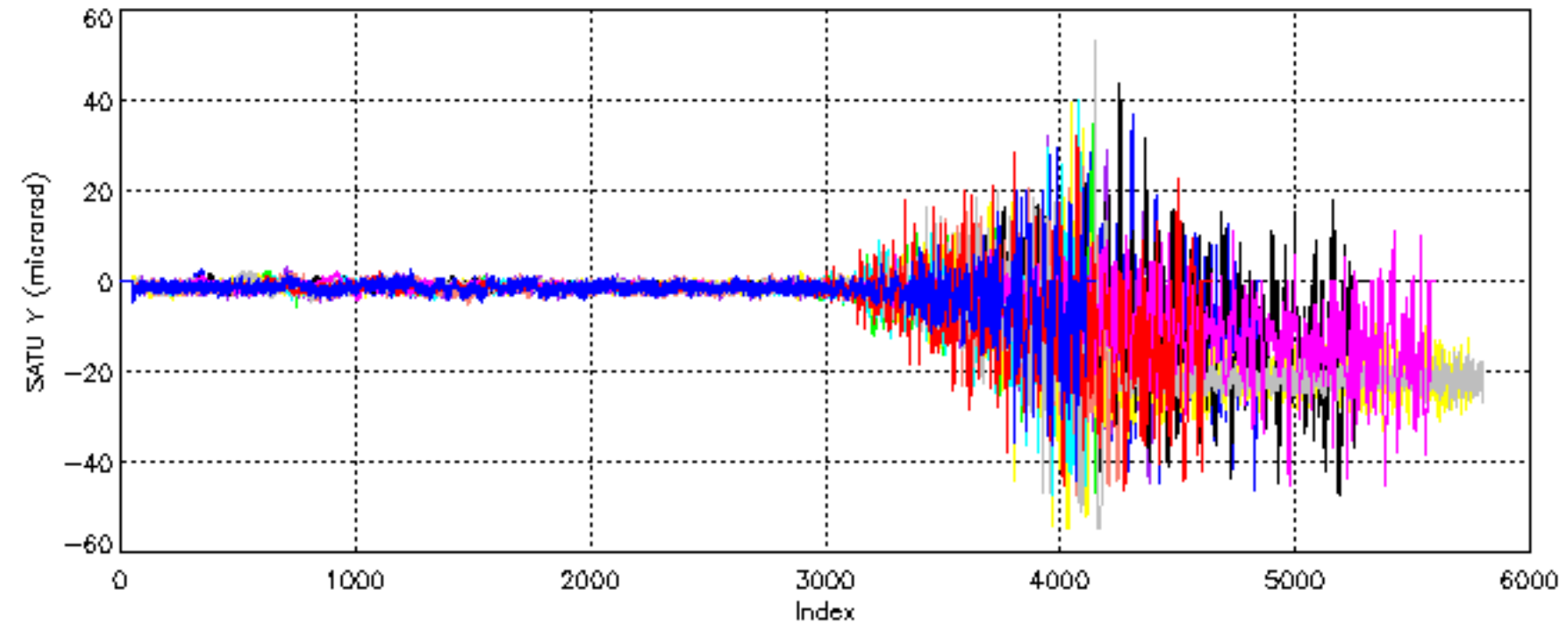




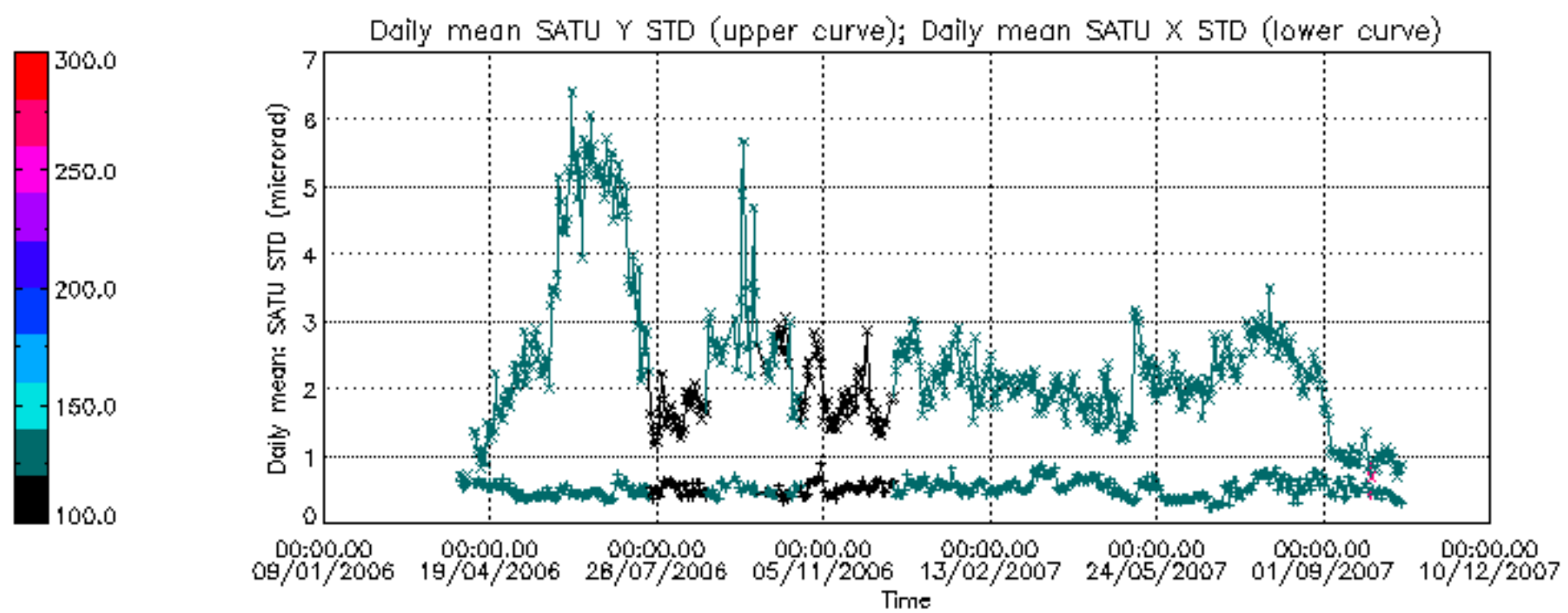
Tangent altitude at which the star is lost











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 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202  
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 5; 91.1; 01-OCT-2007 21:40:56; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29213  
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29218
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11; 824.0; 02-OCT-2007 06:16:09; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29218
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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
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13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
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3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
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5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
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7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219  
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 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29219  
 16; 6773.0; 02-OCT-2007 09:35:54; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29219  
 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219  
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219  
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220  
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 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221  
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221  
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221  
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221  
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 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221  
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221  
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221  
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222  
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 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222  
 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222  
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222  
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 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222  
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 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227  
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14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288  
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16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288  
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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  
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9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
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 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  
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 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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 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
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 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  
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 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  
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 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  
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 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  
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 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  
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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
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5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
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7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
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11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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3; 2390.7; 07-OCT-2007 14:07:46; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29294
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9; 4605.6; 07-OCT-2007 14:44:41; Bright; 56.0; 166; 17Eps Leo ; 2.98; 6000;occ; 112; 0;29294
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 8; 3919.9; 16-OCT-2007 18:11:42; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;29425  
 9; 4013.3; 16-OCT-2007 18:13:15; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29425  
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 11; 4636.2; 16-OCT-2007 18:23:38; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29425  
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 13; 5278.7; 16-OCT-2007 18:34:21; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;29425  
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 15; 6042.2; 16-OCT-2007 18:47:04; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29425  
 16; 6174.7; 16-OCT-2007 18:49:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29425  
 17; 6299.7; 16-OCT-2007 18:51:22; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29425  
 18; 6379.9; 16-OCT-2007 18:52:42; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29425  
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 14; 5279.4; 16-OCT-2007 20:14:58; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;29426  
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 16; 6175.5; 16-OCT-2007 20:29:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29426  
 17; 6300.3; 16-OCT-2007 20:31:58; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29426  
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 5; 267.0; 17-OCT-2007 01:33:49; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29430  
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 7; 1050.7; 17-OCT-2007 01:46:52; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;29430  
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 9; 2166.3; 17-OCT-2007 02:05:28; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29430  
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 12; 2884.2; 17-OCT-2007 02:17:26; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29430  
 13; 2965.3; 17-OCT-2007 02:18:47; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29430  
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 3; -1818.4; 17-OCT-2007 02:39:39; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29430  
 4; -1398.7; 17-OCT-2007 02:46:39; Bright; 43.0; 166; 17Eps Leo ; 2.98; 6000;occ; 86; 0;29430  
 5; -1201.4; 17-OCT-2007 02:49:56; Bright; 48.5; 22; 32Alp Leo ; 1.36; 15200;occ; 97; 0;29430  
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 8; 10.0; 17-OCT-2007 03:10:08; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29431  
 9; 143.2; 17-OCT-2007 03:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29431  
 10; 267.9; 17-OCT-2007 03:14:25; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;29431  
 11; 347.9; 17-OCT-2007 03:15:46; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29431  
 12; 1051.2; 17-OCT-2007 03:27:29; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;29431  
 13; 1589.1; 17-OCT-2007 03:36:27; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29431

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 9; 144.1; 17-OCT-2007 04:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29432
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11; 348.8; 17-OCT-2007 04:56:22; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;29432
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 6; 2882.6; 17-OCT-2007 20:44:00; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29441
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 8; 3425.8; 17-OCT-2007 20:53:03; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29441
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9;	3920.0;	21-OCT-2007	12:12:25;	Bright;	;	53.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	106;	0;	29493
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11;	4222.9;	21-OCT-2007	12:17:28;	Bright;	;	41.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	82;	0;	29493
12;	4696.2;	21-OCT-2007	12:25:21;	Bright;	;	41.0;	51;	41Gam1	Leo	;	2.01;	4500;	occ;	82;	0;	29493
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17;	6197.4;	21-OCT-2007	12:50:22;	Dark	;	37.5;	29;	Bet	Car	;	1.67;	10200;	occ;	75;	0;	29493
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19;	6860.8;	21-OCT-2007	13:01:26;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	75;	0;	29493
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8;	3623.0;	21-OCT-2007	13:48:04;	Bright;	;	35.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	70;	0;	29494
9;	3920.1;	21-OCT-2007	13:53:01;	Bright;	;	48.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	96;	0;	29494
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11;	4223.0;	21-OCT-2007	13:58:04;	Bright;	;	53.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	106;	0;	29494
12;	4696.5;	21-OCT-2007	14:05:57;	Bright;	;	41.0;	51;	41Gam1	Leo	;	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
14;	5895.5;	21-OCT-2007	14:25:56;	Dark	;	48.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	97;	0;	29494
15;	5980.5;	21-OCT-2007	14:27:21;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	29494
16;	6096.8;	21-OCT-2007	14:29:18;	Dark	;	43.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	86;	0;	29494
17;	6197.7;	21-OCT-2007	14:30:59;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;	occ;	77;	0;	29494
18;	6435.9;	21-OCT-2007	14:34:57;	Dark	;	47.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	94;	0;	29494
19;	6861.0;	21-OCT-2007	14:42:02;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	75;	0;	29494
20;	6946.5;	21-OCT-2007	14:43:27;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	29494
21;	7117.0;	21-OCT-2007	14:46:18;	Dark	;	43.5;	157;	The1	Eri	;	2.91;	9300;	occ;	87;	0;	29494

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2;	2170.3;	21-OCT-2007	15:04:27;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	72;	0;	29495
3;	2404.9;	21-OCT-2007	15:08:22;	Bright;	;	36.0;	58;	21Alp	And	;	2.07;	11000;	occ;	72;	0;	29495
4;	2534.0;	21-OCT-2007	15:10:31;	Bright;	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	29495
5;	2875.1;	21-OCT-2007	15:16:12;	Bright;	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	70;	0;	29495
6;	2953.5;	21-OCT-2007	15:17:30;	Bright;	;	38.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	76;	0;	29495
7;	3425.3;	21-OCT-2007	15:25:22;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29495
8;	3623.3;	21-OCT-2007	15:28:40;	Bright;	;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	29495
9;	3920.3;	21-OCT-2007	15:33:37;	Bright;	;	37.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	75;	0;	29495
10;	4014.6;	21-OCT-2007	15:35:11;	Bright;	;	34.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	68;	0;	29495
11;	4223.1;	21-OCT-2007	15:38:40;	Bright;	;	37.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	75;	0;	29495
12;	4697.0;	21-OCT-2007	15:46:34;	Bright;	;	40.5;	51;	41Gam1	Leo	;	2.01;	4500;	occ;	81;	0;	29495
13;	5811.3;	21-OCT-2007	16:05:08;	Dark	;	38.0;	113;	Mu	Vel	;	2.69;	5000;	occ;	76;	0;	29495
14;	5896.3;	21-OCT-2007	16:06:33;	Dark	;	55.0;	65;	Lam	Vel	;	2.20;	4400;	occ;	110;	0;	29495
15;	5981.3;	21-OCT-2007	16:07:58;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	29495
16;	6097.7;	21-OCT-2007	16:09:54;	Dark	;	42.0;	34;	Gam2	Vel	;	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
20;	6946.9;	21-OCT-2007	16:24:04;	Dark	;	46.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	93;	0;	29495
21;	7117.7;	21-OCT-2007	16:26:54;	Dark	;	42.5;	157;	The1	Eri	;	2.91;	9300;	occ;	85;	0;	29495

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1;	1598.9;	21-OCT-2007	16:35:32;	Dark	;	43.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	86;	0;	29496
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2; 2170.4; 21-OCT-2007 16:45:03; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29496  
 3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496  
 4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496  
 5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496  
 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  
 8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496  
 9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496  
 10; 4014.6; 21-OCT-2007 17:15:47; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29496  
 11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496  
 12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496  
 13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496  
 14; 5896.9; 21-OCT-2007 17:47:10; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29496  
 15; 5981.9; 21-OCT-2007 17:48:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29496  
 16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496  
 17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496  
 18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496  
 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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 2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497  
 3; 1599.0; 21-OCT-2007 18:16:08; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29497  
 4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497  
 5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
 6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497  
 7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
 8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497  
 9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497  
 10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497  
 11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497  
 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  
 14; 4697.5; 21-OCT-2007 19:07:46; Bright; 59.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 118; 0;29497  
 15; 5811.8; 21-OCT-2007 19:26:21; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29497  
 16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497  
 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  
 20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497  
 21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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1; -224.1; 21-OCT-2007 21:06:57; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29498  
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 3; -52.8; 21-OCT-2007 21:09:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29498  
 4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499  
 5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499  
 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  
 10; 1599.2; 21-OCT-2007 21:37:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29499  
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 13; 2533.1; 21-OCT-2007 21:52:54; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29499  
 14; 2874.5; 21-OCT-2007 21:58:35; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29499  
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 16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499  
 17; 3624.0; 21-OCT-2007 22:11:05; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29499  
 18; 3919.9; 21-OCT-2007 22:16:01; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29499  
 19; 4014.3; 21-OCT-2007 22:17:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29499  
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 21; 4697.8; 21-OCT-2007 22:28:59; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;29499

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 4; 41.5; 21-OCT-2007 22:51:58; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29500



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6; 403.9; 21-OCT-2007 22:58:00; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29500
7; 826.2; 21-OCT-2007 23:05:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29500
8; 911.7; 21-OCT-2007 23:06:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29500
9; 1083.2; 21-OCT-2007 23:09:20; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29500
10; 1599.4; 21-OCT-2007 23:17:56; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29500
11; 2170.7; 21-OCT-2007 23:27:27; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29500
12; 2405.1; 21-OCT-2007 23:31:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29500
13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
14; 2874.4; 21-OCT-2007 23:39:11; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29500
15; 2952.7; 21-OCT-2007 23:40:29; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29500
16; 3425.1; 21-OCT-2007 23:48:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29500
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18; 3919.9; 21-OCT-2007 23:56:36; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29500
19; 4014.2; 21-OCT-2007 23:58:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29500
20; 4223.4; 22-OCT-2007 00:01:40; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29500
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2; -136.3; 22-OCT-2007 00:29:36; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29500
3; 163.3; 22-OCT-2007 00:34:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29501
4; 404.8; 22-OCT-2007 00:38:37; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29501
5; 826.4; 22-OCT-2007 00:45:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29501
6; 911.9; 22-OCT-2007 00:47:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29501
7; 1083.7; 22-OCT-2007 00:49:56; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29501
8; 1599.6; 22-OCT-2007 00:58:32; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29501
9; 2170.8; 22-OCT-2007 01:08:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29501
10; 2405.1; 22-OCT-2007 01:11:58; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29501
11; 2532.7; 22-OCT-2007 01:14:05; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29501
12; 2874.3; 22-OCT-2007 01:19:47; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29501
13; 2952.6; 22-OCT-2007 01:21:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29501
14; 3425.1; 22-OCT-2007 01:28:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29501
15; 3624.4; 22-OCT-2007 01:32:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29501
16; 3919.8; 22-OCT-2007 01:37:12; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29501
17; 4014.1; 22-OCT-2007 01:38:47; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29501
18; 4223.4; 22-OCT-2007 01:42:16; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29501
19; 4698.7; 22-OCT-2007 01:50:11; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;29501
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2; -135.6; 22-OCT-2007 02:10:13; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29501
3; 163.6; 22-OCT-2007 02:15:12; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29502
4; 405.6; 22-OCT-2007 02:19:14; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29502
5; 826.9; 22-OCT-2007 02:26:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29502
6; 912.2; 22-OCT-2007 02:27:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29502
7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
8; 1599.8; 22-OCT-2007 02:39:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29502
9; 2170.9; 22-OCT-2007 02:48:39; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29502
10; 2405.3; 22-OCT-2007 02:52:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29502
11; 2532.5; 22-OCT-2007 02:54:41; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29502
12; 2874.2; 22-OCT-2007 03:00:22; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29502
13; 2952.4; 22-OCT-2007 03:01:41; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29502
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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  
 7; 3425.1; 22-OCT-2007 13:13:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29508  
 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  
 10; 4014.5; 22-OCT-2007 13:22:58; Bright; 40.5; 82; 48Bet UMA ; 2.37; 10600;occ; 81; 0;29508  
 11; 4224.0; 22-OCT-2007 13:26:28; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29508  
 12; 4700.7; 22-OCT-2007 13:34:25; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29508  
 13; 5814.7; 22-OCT-2007 13:52:59; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29508  
 14; 5905.3; 22-OCT-2007 13:54:29; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;29508  
 15; 5989.5; 22-OCT-2007 13:55:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29508  
 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  
 18; 6447.3; 22-OCT-2007 14:03:31; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29508  
 19; 6864.7; 22-OCT-2007 14:10:28; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29508  
 20; 6949.9; 22-OCT-2007 14:11:54; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;29508  
 21; 7123.2; 22-OCT-2007 14:14:47; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29508

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1; 1601.0; 22-OCT-2007 14:23:21; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29509  
 2; 2171.4; 22-OCT-2007 14:32:51; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29509  
 3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509  
 4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509  
 5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509  
 6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509  
 7; 3425.2; 22-OCT-2007 14:53:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29509  
 8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509  
 9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509  
 10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509  
 11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509  
 12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509  
 13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509  
 14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509  
 15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509  
 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  
 18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509  
 19; 6864.8; 22-OCT-2007 15:51:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29509  
 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509  
 21; 7123.6; 22-OCT-2007 15:55:23; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29509

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1; 1601.1; 22-OCT-2007 16:03:57; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29510  
 2; 2171.7; 22-OCT-2007 16:13:27; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29510  
 3; 2405.9; 22-OCT-2007 16:17:22; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29510  
 4; 2531.0; 22-OCT-2007 16:19:27; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29510  
 5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510  
 6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510  
 7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510  
 8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510  
 9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510  
 10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

11; 4224.3; 22-OCT-2007 16:47:40; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29510  
 12; 4640.9; 22-OCT-2007 16:54:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29510  
 13; 5815.4; 22-OCT-2007 17:14:11; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29510  
 14; 5906.8; 22-OCT-2007 17:15:43; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29510  
 15; 5990.9; 22-OCT-2007 17:17:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29510  
 16; 6084.0; 22-OCT-2007 17:18:40; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29510  
 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510  
 18; 6449.0; 22-OCT-2007 17:24:45; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29510  
 19; 6865.2; 22-OCT-2007 17:31:41; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29510  
 20; 6950.5; 22-OCT-2007 17:33:06; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29510  
 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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1; 1088.1; 22-OCT-2007 17:36:00; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;29511  
 2; 1601.3; 22-OCT-2007 17:44:33; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29511  
 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511  
 4; 2405.9; 22-OCT-2007 17:57:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29511  
 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511  
 6; 2873.4; 22-OCT-2007 18:05:45; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29511  
 7; 2951.3; 22-OCT-2007 18:07:03; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29511  
 8; 3425.0; 22-OCT-2007 18:14:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29511  
 9; 3626.6; 22-OCT-2007 18:18:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29511  
 10; 3919.7; 22-OCT-2007 18:23:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29511  
 11; 4014.7; 22-OCT-2007 18:24:46; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29511  
 12; 4224.2; 22-OCT-2007 18:28:16; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;29511  
 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511  
 14; 5815.7; 22-OCT-2007 18:54:47; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29511  
 15; 5907.5; 22-OCT-2007 18:56:19; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29511  
 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511  
 17; 6084.5; 22-OCT-2007 18:59:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29511  
 18; 6202.5; 22-OCT-2007 19:01:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29511  
 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511  
 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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1; 829.3; 22-OCT-2007 19:12:17; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29512  
 2; 914.7; 22-OCT-2007 19:13:42; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29512  
 3; 1088.4; 22-OCT-2007 19:16:36; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29512  
 4; 1601.4; 22-OCT-2007 19:25:09; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29512  
 5; 2171.9; 22-OCT-2007 19:34:40; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;29512  
 6; 2406.0; 22-OCT-2007 19:38:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29512  
 7; 2530.5; 22-OCT-2007 19:40:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29512  
 8; 2873.2; 22-OCT-2007 19:46:21; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;29512  
 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512  
 10; 3424.9; 22-OCT-2007 19:55:33; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;29512  
 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512  
 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512  
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512  
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512  
 15; 4641.3; 22-OCT-2007 20:15:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29512  
 16; 5815.8; 22-OCT-2007 20:35:24; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29512  
 17; 5908.1; 22-OCT-2007 20:36:56; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29512  
 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512  
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512  
 20; 6202.7; 22-OCT-2007 20:41:50; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29512  
 21; 6450.6; 22-OCT-2007 20:45:58; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;29512  
 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512  
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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1; -219.5; 22-OCT-2007 23:56:36; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;29514  
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 3; -42.5; 22-OCT-2007 23:59:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29514  
 4; 50.2; 23-OCT-2007 00:01:06; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29515  
 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515  
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515  
 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515  
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515  
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515  
 10; 1601.7; 23-OCT-2007 00:26:57; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29515  
 11; 2172.0; 23-OCT-2007 00:36:27; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29515

12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515  
 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515  
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515  
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515  
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515  
 17; 3627.5; 23-OCT-2007 01:00:43; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29515  
 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515  
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515  
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515  
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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1; -219.2; 23-OCT-2007 01:37:12; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29515  
 2; -125.7; 23-OCT-2007 01:38:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29515  
 3; -41.9; 23-OCT-2007 01:40:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29515  
 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516  
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516  
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516  
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516  
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 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516  
 10; 1602.0; 23-OCT-2007 02:07:33; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29516  
 11; 2172.3; 23-OCT-2007 02:17:04; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29516  
 12; 2406.4; 23-OCT-2007 02:20:58; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29516  
 13; 2529.7; 23-OCT-2007 02:23:01; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29516  
 14; 2872.7; 23-OCT-2007 02:28:44; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29516  
 15; 2950.5; 23-OCT-2007 02:30:02; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29516  
 16; 3425.0; 23-OCT-2007 02:37:56; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;29516

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 2; -2116.4; 23-OCT-2007 02:46:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29516  
 3; -2021.7; 23-OCT-2007 02:47:45; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29516  
 4; -1811.5; 23-OCT-2007 02:51:16; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29516  
 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516  
 6; -218.8; 23-OCT-2007 03:17:48; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29516  
 7; -125.0; 23-OCT-2007 03:19:22; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29516  
 8; -41.2; 23-OCT-2007 03:20:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29516  
 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517  
 10; 168.0; 23-OCT-2007 03:24:15; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29517  
 11; 417.9; 23-OCT-2007 03:28:25; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29517  
 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517  
 13; 915.9; 23-OCT-2007 03:36:43; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29517  
 14; 1090.7; 23-OCT-2007 03:39:38; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29517  
 15; 1602.3; 23-OCT-2007 03:48:09; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29517  
 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517  
 17; 2406.5; 23-OCT-2007 04:01:34; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29517  
 18; 2529.6; 23-OCT-2007 04:03:37; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29517  
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9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
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 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564  
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