

# GOMOS Daily Report 18-OCT-2004

## Level 0 and Level 1 products

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### 1. General Info

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	20OCT2004 05:01:52
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (18OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

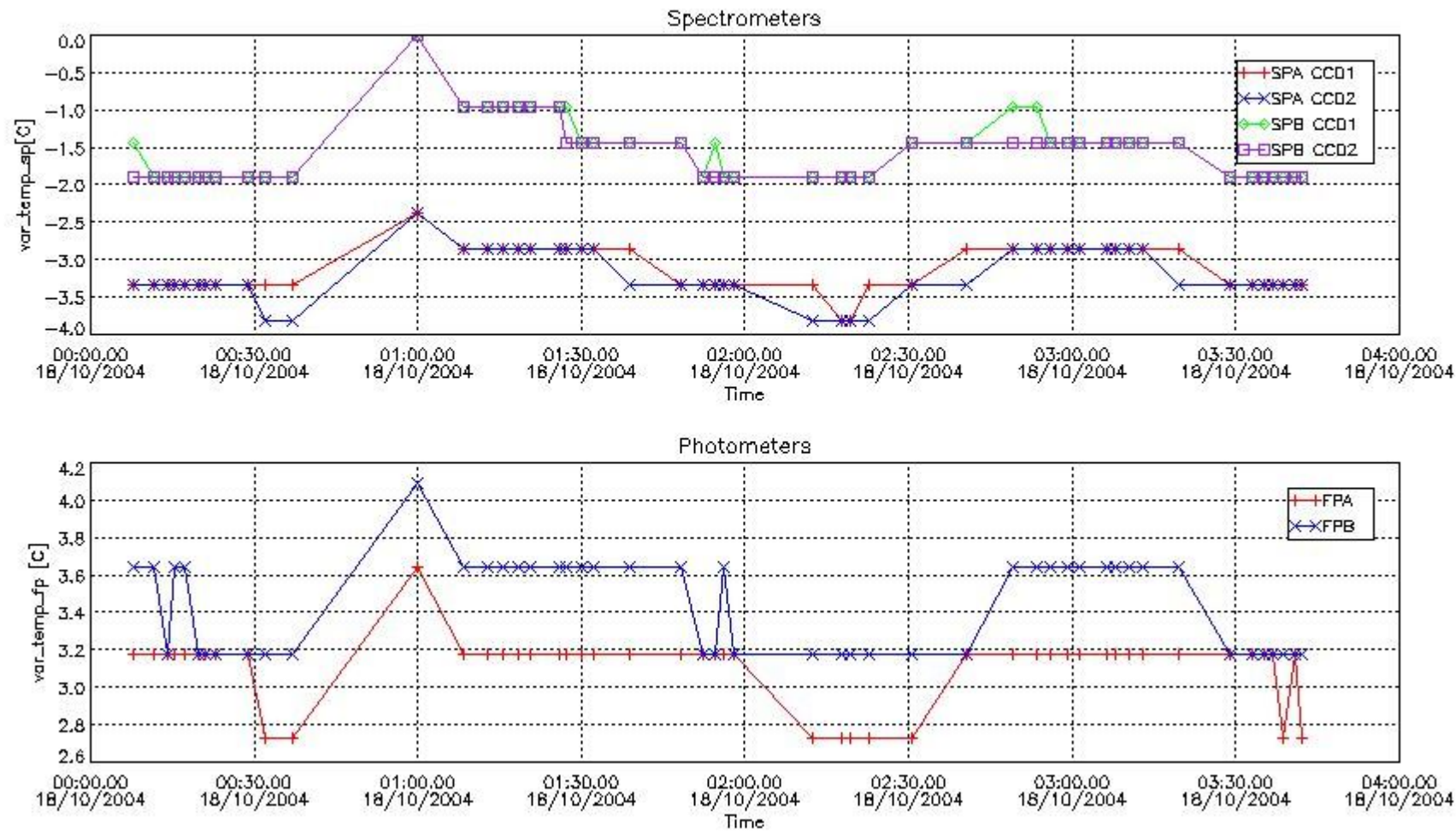
## 2. Summary of products arrived in PCF (Product Control Facility)

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

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

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20041018_000747_000000382031_00188_13769_0011.N1	18-OCT-2004 00:07:47	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13769	No
GOM_TRA_1PNPDE20041018_001143_000000382031_00188_13769_0012.N1	18-OCT-2004 00:11:43	Bright	37.500	58	21Alp And	2.0730	11000.	75	13769	No
GOM_TRA_1PNPDE20041018_001404_000000422031_00188_13769_0013.N1	18-OCT-2004 00:14:04	Bright	41.500	53	43Bet And	2.0480	3300.0	83	13769	No
GOM_TRA_1PNPDE20041018_001529_000000462031_00188_13769_0014.N1	18-OCT-2004 00:15:29	Bright	45.500	173	4Bet Tri	3.0040	8900.0	91	13769	No
GOM_TRA_1PNPDE20041018_001724_000000452031_00188_13769_0015.N1	18-OCT-2004 00:17:24	Bright	45.000	73	57Gam1And	2.2600	13100.	90	13769	No
GOM_TRA_1PNPDE20041018_001940_000000392031_00188_13769_0016.N1	18-OCT-2004 00:19:40	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	13769	No
GOM_TRA_1PNPDE20041018_002100_000000362031_00188_13769_0017.N1	18-OCT-2004 00:21:00	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	13769	No
GOM_TRA_1PNPDE20041018_002248_000000382031_00188_13769_0018.N1	18-OCT-2004 00:22:48	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13769	No
GOM_TRA_1PNPDE20041018_002846_000000372031_00188_13769_0019.N1	18-OCT-2004 00:28:46	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	13769	No
GOM_TRA_1PNPDE20041018_003154_000000392031_00188_13769_0020.N1	18-OCT-2004 00:31:54	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	13769	No
GOM_TRA_1PNPDE20041018_003700_000000392031_00188_13769_0021.N1	18-OCT-2004 00:37:00	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13769	No
GOM_TRA_1PNPDE20041018_010000_000000592031_00188_13769_0000.N1	18-OCT-2004 01:00:00	Twilight	58.500	48	30Alp Hya	1.9770	4100.0	117	13769	No
GOM_TRA_1PNPDE20041018_010820_000000402031_00188_13769_0001.N1	18-OCT-2004 01:08:20	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13769	No
GOM_TRA_1PNPDE20041018_011244_000000462031_00189_13770_0002.N1	18-OCT-2004 01:12:44	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	13770	No
GOM_TRA_1PNPDE20041018_011528_000000752031_00189_13770_0003.N1	18-OCT-2004 01:15:28	Dark	74.500	37	25Del CMa	1.8300	5900.0	149	13770	No
GOM_TRA_1PNPDE20041018_011823_000000512031_00189_13770_0004.N1	18-OCT-2004 01:18:23	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	13770	No
GOM_TRA_1PNPDE20041018_012033_000002232031_00189_13770_0005.N1	18-OCT-2004 01:20:33	Dark	223.00	1	9Alp CMa	-1.4400	11000.	446	13770	No
GOM_TRA_1PNPDE20041018_012549_000000412031_00189_13770_0006.N1	18-OCT-2004 01:25:49	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13770	No
GOM_TRA_1PNPDE20041018_012716_000000462031_00189_13770_0007.N1	18-OCT-2004 01:27:16	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13770	No
GOM_TRA_1PNPDE20041018_012958_000000462031_00189_13770_0008.N1	18-OCT-2004 01:29:58	Dark	45.500	157	The1Eri	2.9060	9300.0	91	13770	No
GOM_TRA_1PNPDE20041018_013214_000000472031_00189_13770_0009.N1	18-OCT-2004 01:32:14	Twilight	46.500	84	Alp Phe	2.3970	4500.0	93	13770	No
GOM_TRA_1PNPDE20041018_013848_000000442031_00189_13770_0010.N1	18-OCT-2004 01:38:48	Bright	44.000	52	16Bet Cet	2.0370	4500.0	88	13770	No
GOM_TRA_1PNPDE20041018_014823_000000372031_00189_13770_0011.N1	18-OCT-2004 01:48:23	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	13770	No
GOM_TRA_1PNPDE20041018_015219_000000382031_00189_13770_0012.N1	18-OCT-2004 01:52:19	Bright	38.000	58	21Alp And	2.0730	11000.	76	13770	No
GOM_TRA_1PNPDE20041018_015439_000000422031_00189_13770_0013.N1	18-OCT-2004 01:54:39	Bright	42.000	53	43Bet And	2.0480	3300.0	84	13770	No
GOM_TRA_1PNPDE20041018_015604_000000472031_00189_13770_0014.N1	18-OCT-2004 01:56:04	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	13770	No
GOM_TRA_1PNPDE20041018_015759_000000452031_00189_13770_0015.N1	18-OCT-2004 01:57:59	Bright	45.000	73	57Gam1And	2.2600	13100.	90	13770	No
GOM_TRA_1PNPDE20041018_021230_000000422031_00189_13770_0000.N1	18-OCT-2004 02:12:30	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	13770	No
GOM_TRA_1PNPDE20041018_021736_000000402031_00189_13770_0001.N1	18-OCT-2004 02:17:36	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13770	No
GOM_TRA_1PNPDE20041018_021910_000000362031_00189_13770_0002.N1	18-OCT-2004 02:19:10	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	13770	No
GOM_TRA_1PNPDE20041018_022236_000000382031_00189_13770_0003.N1	18-OCT-2004 02:22:36	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	13770	No
GOM_TRA_1PNPDE20041018_023039_000001212031_00189_13770_0004.N1	18-OCT-2004 02:30:39	Twilight	121.00	17	78Bet Gem	1.1610	4500.0	242	13770	No
GOM_TRA_1PNPDE20041018_024037_000000612031_00189_13770_0005.N1	18-OCT-2004 02:40:37	Twilight	61.000	48	30Alp Hya	1.9770	4100.0	122	13770	No
GOM_TRA_1PNPDE20041018_024857_000000432031_00189_13770_0006.N1	18-OCT-2004 02:48:57	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	13770	No
GOM_TRA_1PNPDE20041018_025321_000000452031_00190_13771_0007.N1	18-OCT-2004 02:53:21	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	13771	No
GOM_TRA_1PNPDE20041018_025606_000000772031_00190_13771_0008.N1	18-OCT-2004 02:56:06	Dark	77.000	37	25Del CMa	1.8300	5900.0	154	13771	No
GOM_TRA_1PNPDE20041018_025900_000000512031_00190_13771_0009.N1	18-OCT-2004 02:59:00	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	13771	No
GOM_TRA_1PNPDE20041018_030113_000002012031_00190_13771_0010.N1	18-OCT-2004 03:01:13	Dark	201.00	1	9Alp CMa	-1.4400	11000.	402	13771	No
GOM_TRA_1PNPDE20041018_030624_000000432031_00190_13771_0011.N1	18-OCT-2004 03:06:24	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13771	No
GOM_TRA_1PNPDE20041018_030751_000000512031_00190_13771_0012.N1	18-OCT-2004 03:07:51	Dark	51.000	9	Alp Eri	0.45300	24000.	102	13771	No
GOM_TRA_1PNPDE20041018_031034_000000482031_00190_13771_0013.N1	18-OCT-2004 03:10:34	Dark	47.500	157	The1Eri	2.9060	9300.0	95	13771	No
GOM_TRA_1PNPDE20041018_031250_000000462031_00190_13771_0014.N1	18-OCT-2004 03:12:50	Twilight	46.000	84	Alp Phe	2.3970	4500.0	92	13771	No
GOM_TRA_1PNPDE20041018_031924_000000452031_00190_13771_0015.N1	18-OCT-2004 03:19:24	Bright	45.000	52	16Bet Cet	2.0370	4500.0	90	13771	No
GOM_TRA_1PNPDE20041018_032859_000000382031_00190_13771_0016.N1	18-OCT-2004 03:28:59	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13771	No
GOM_TRA_1PNPDE20041018_033255_000000372031_00190_13771_0017.N1	18-OCT-2004 03:32:55	Bright	36.500	58	21Alp And	2.0730	11000.	73	13771	No
GOM_TRA_1PNPDE20041018_033515_000000432031_00190_13771_0018.N1	18-OCT-2004 03:35:15	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13771	No
GOM_TRA_1PNPDE20041018_033640_000000462031_00190_13771_0019.N1	18-OCT-2004 03:36:40	Bright	45.500	173	4Bet Tri	3.0040	8900.0	91	13771	No
GOM_TRA_1PNPDE20041018_033834_000000462031_00190_13771_0020.N1	18-OCT-2004 03:38:34	Bright	45.500	73	57Gam1And	2.2600	13100.	91	13771	No
GOM_TRA_1PNPDE20041018_034052_000000392031_00190_13771_0021.N1	18-OCT-2004 03:40:52	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	13771	No

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



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

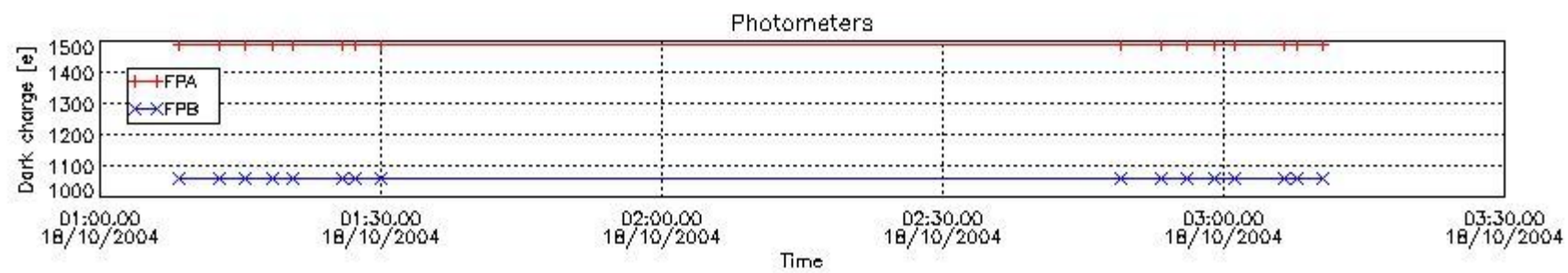
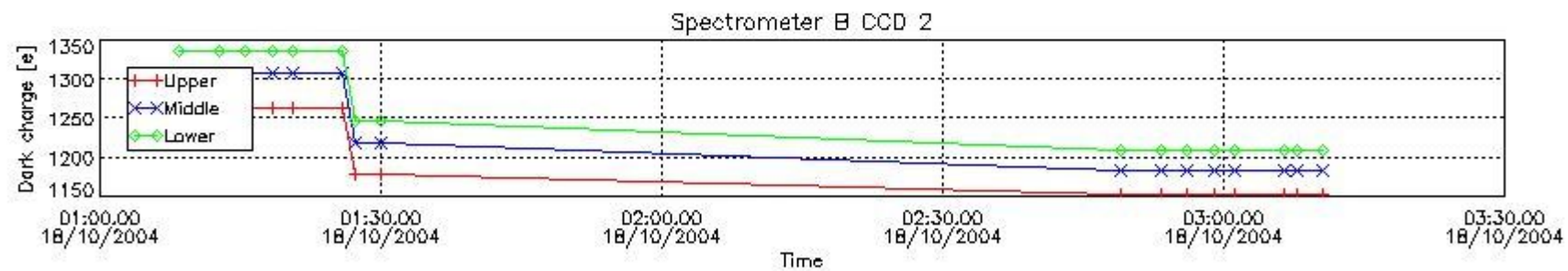
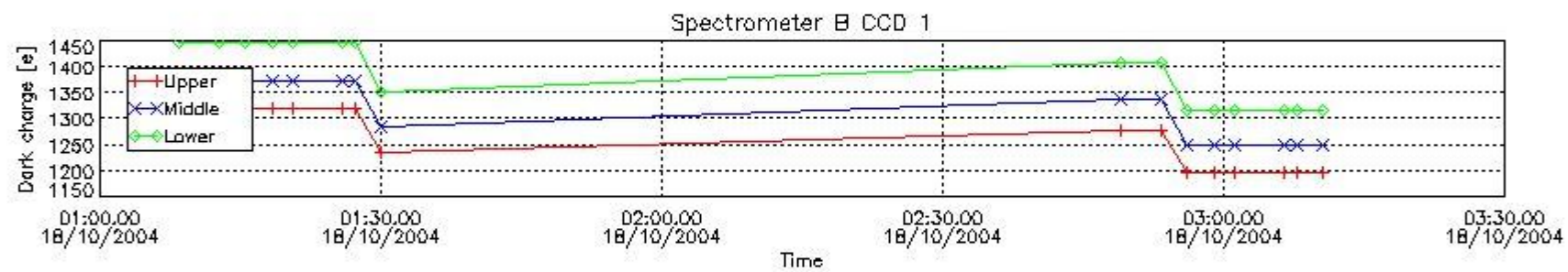
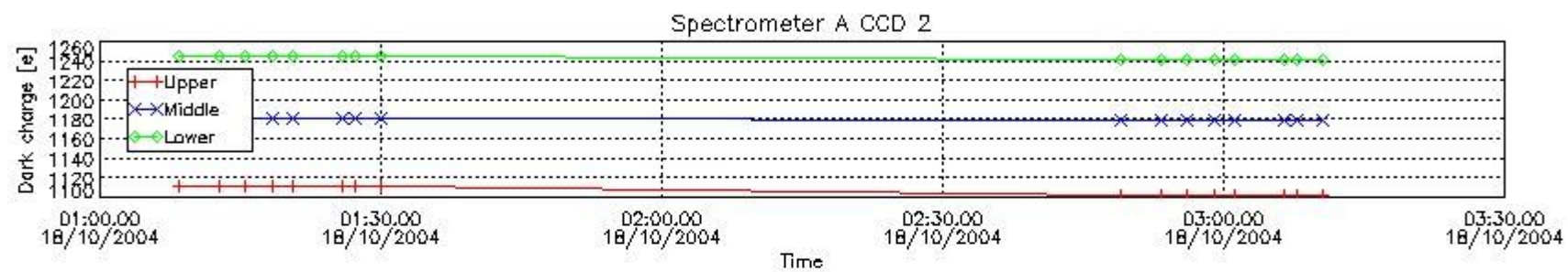
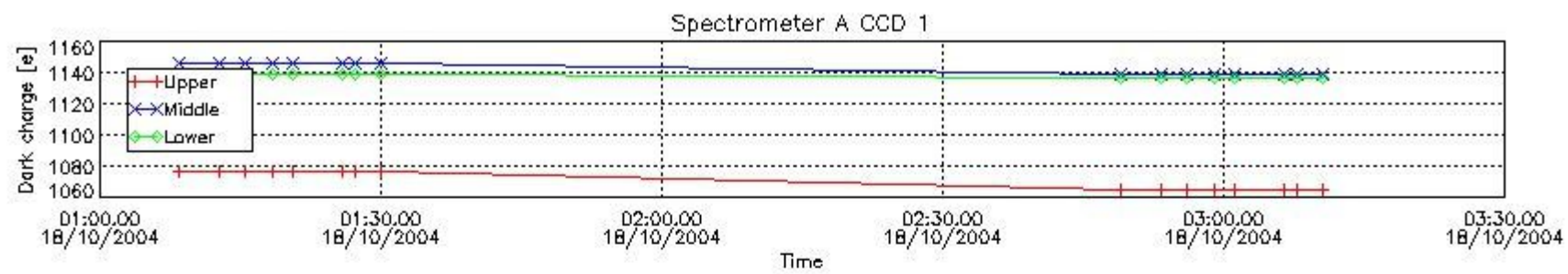
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





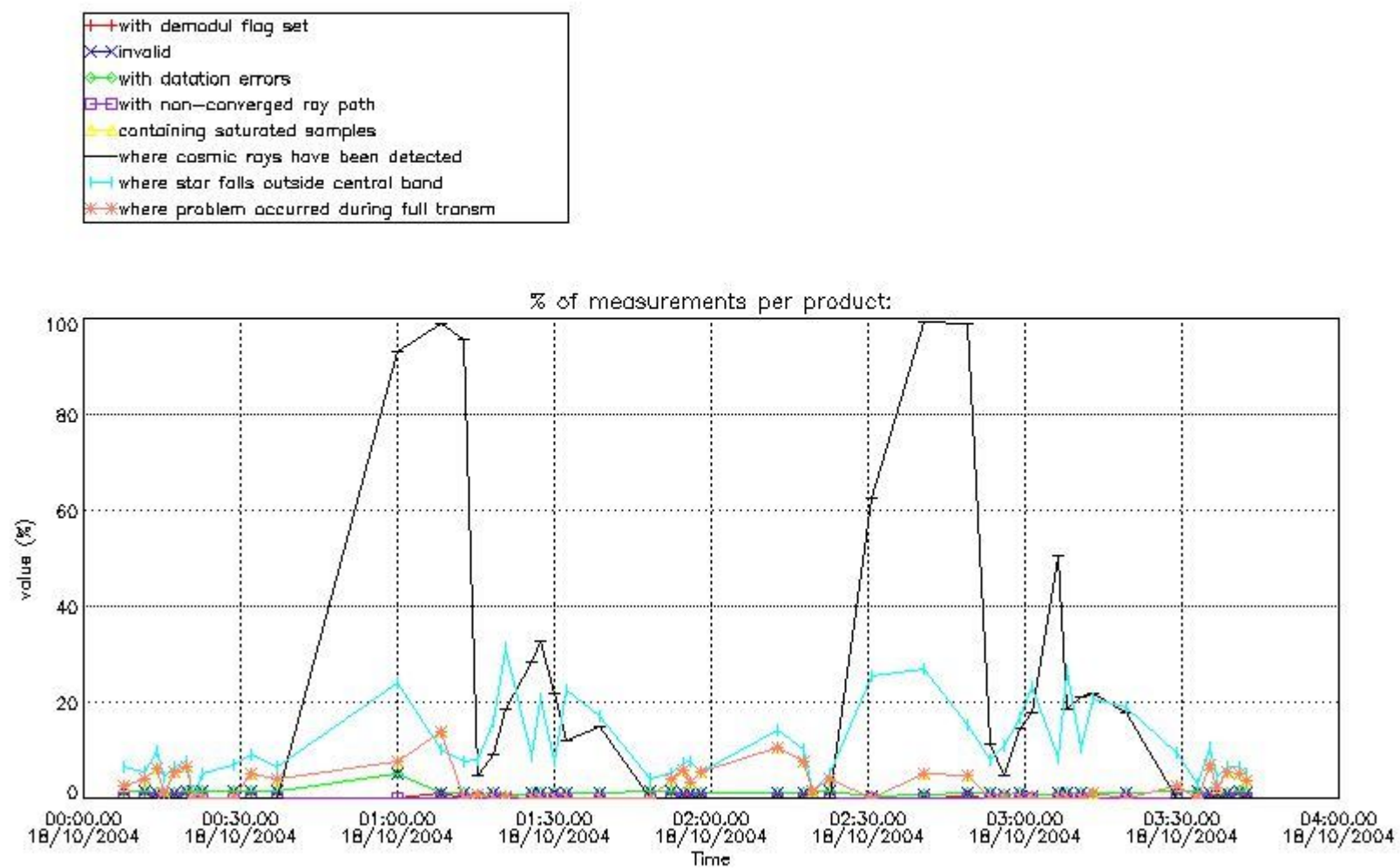
## 5. Demodulation flag and quality information monitoring

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.

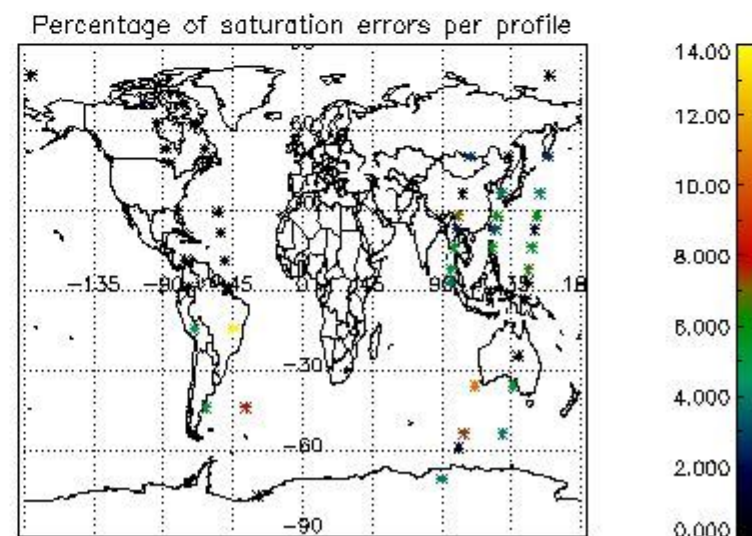
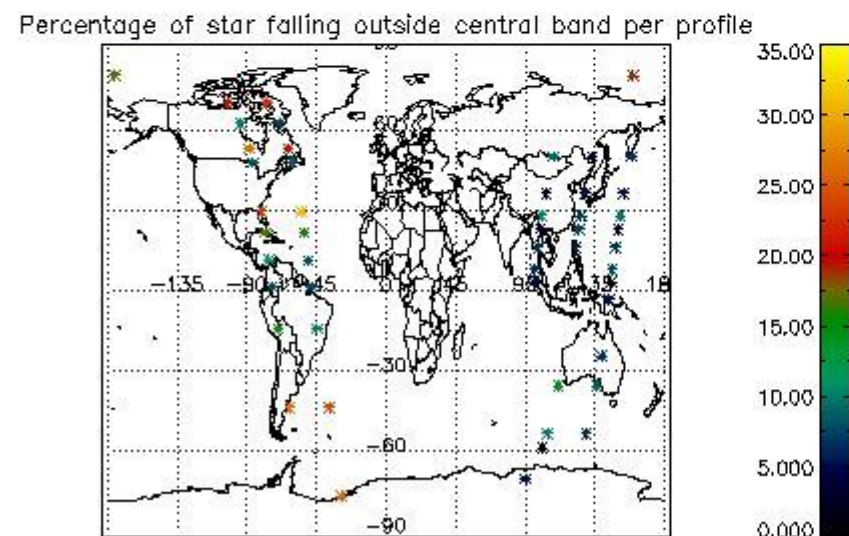
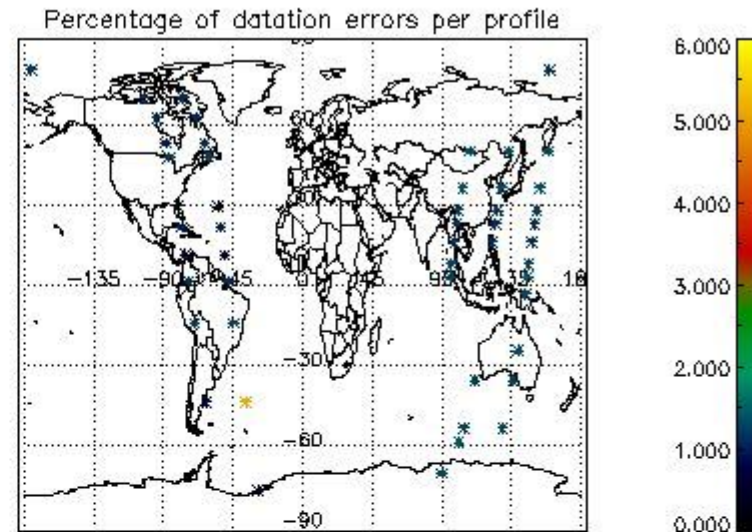
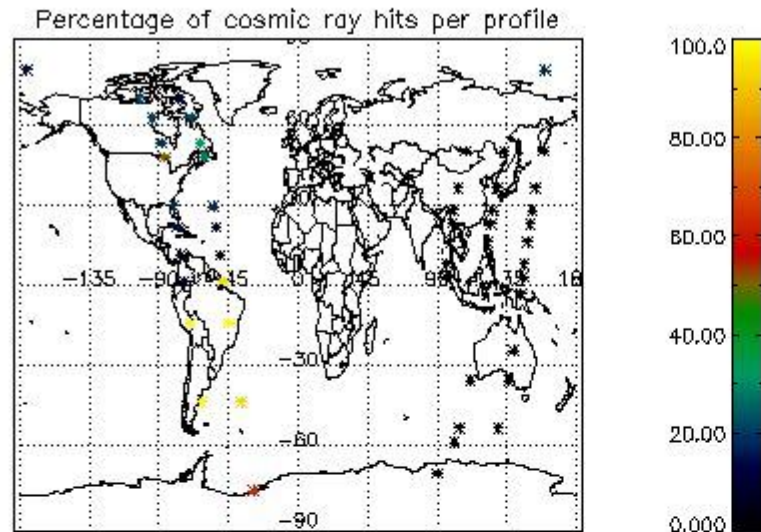
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)

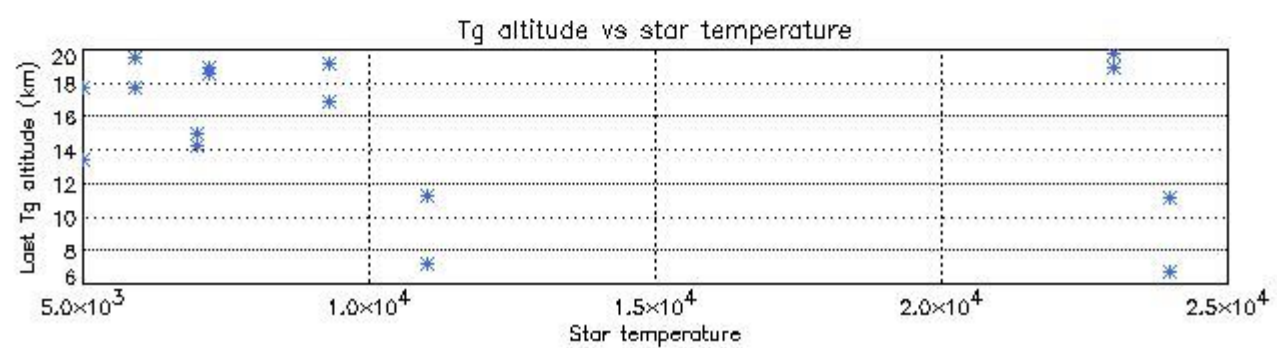
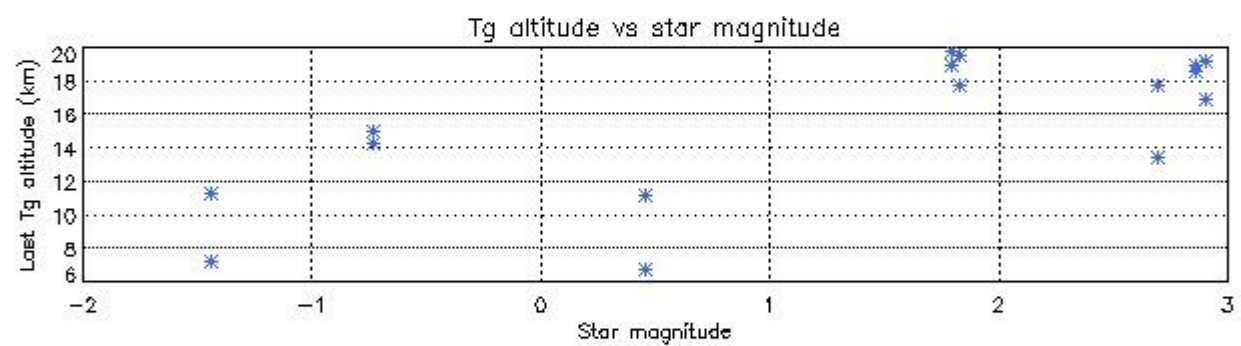
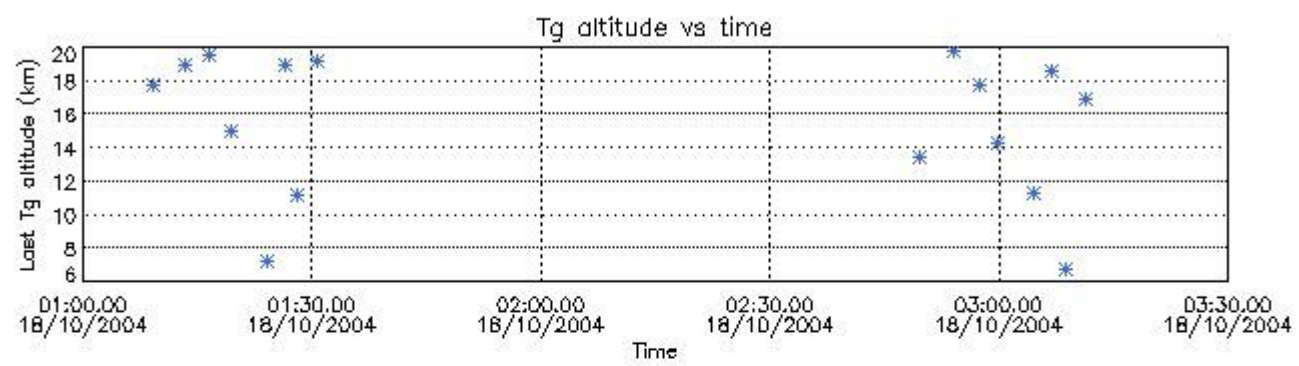
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.372	20.237	9.2334
St. deviation:	4.3256	3.0333	1.3814
Maximum:	19.702	27.306	10.794
Minimum:	6.6970	12.071	7.1024
Number of data:	16.000	29.000	5.0000

### 6.2 Plot for DARK limb products

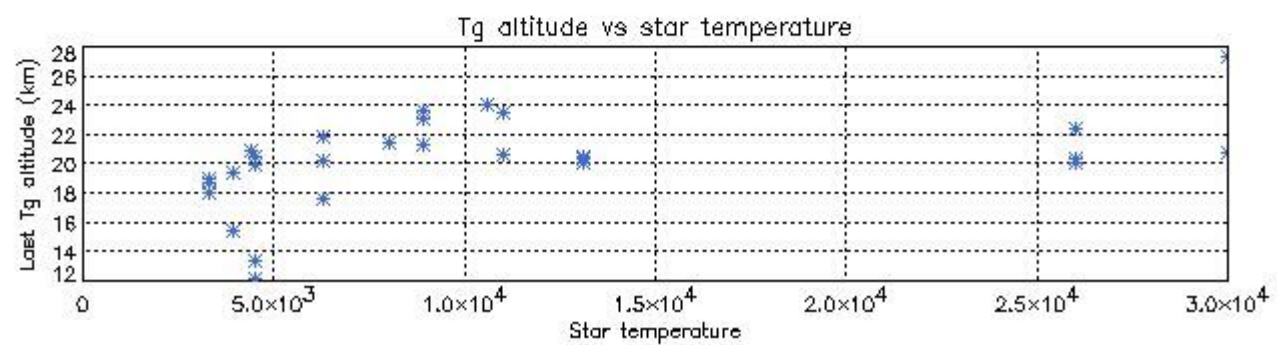
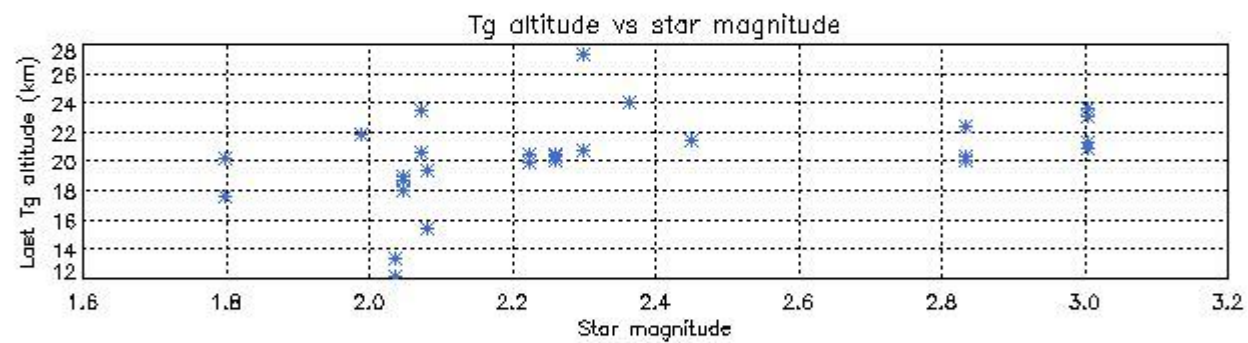
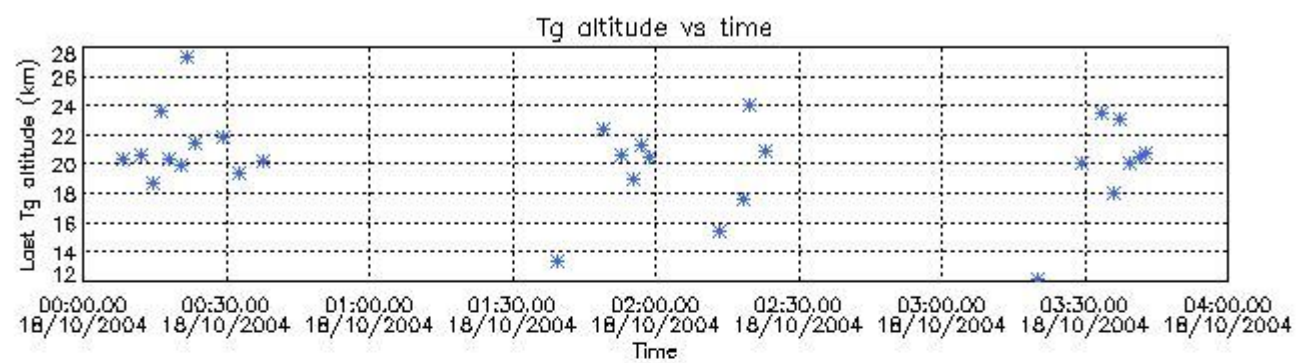


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

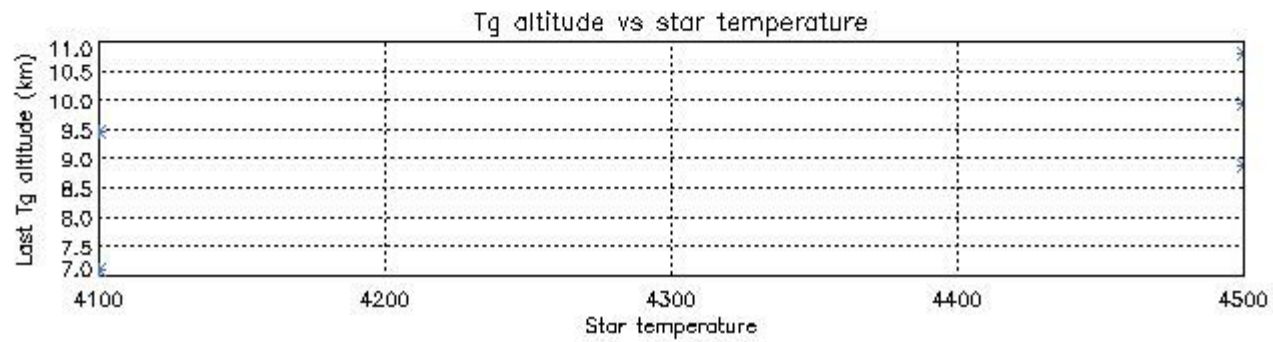
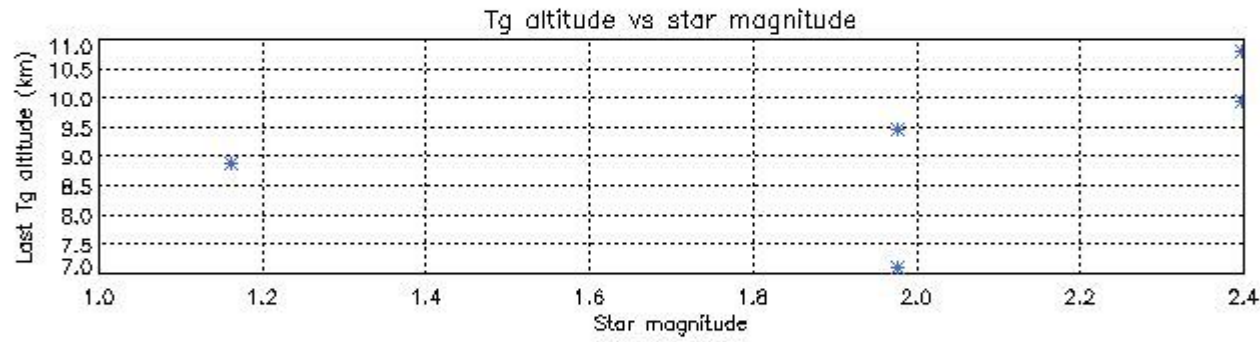
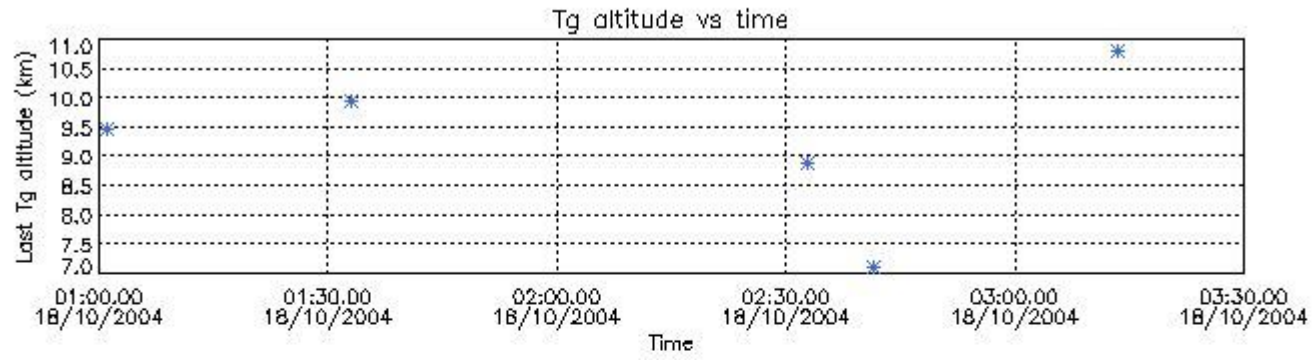
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



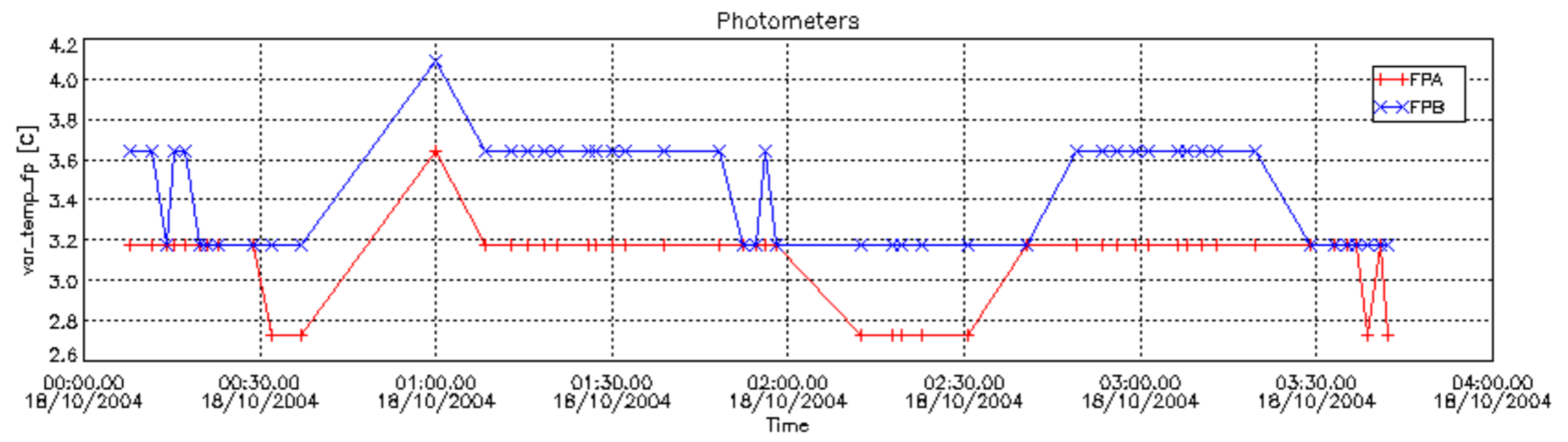
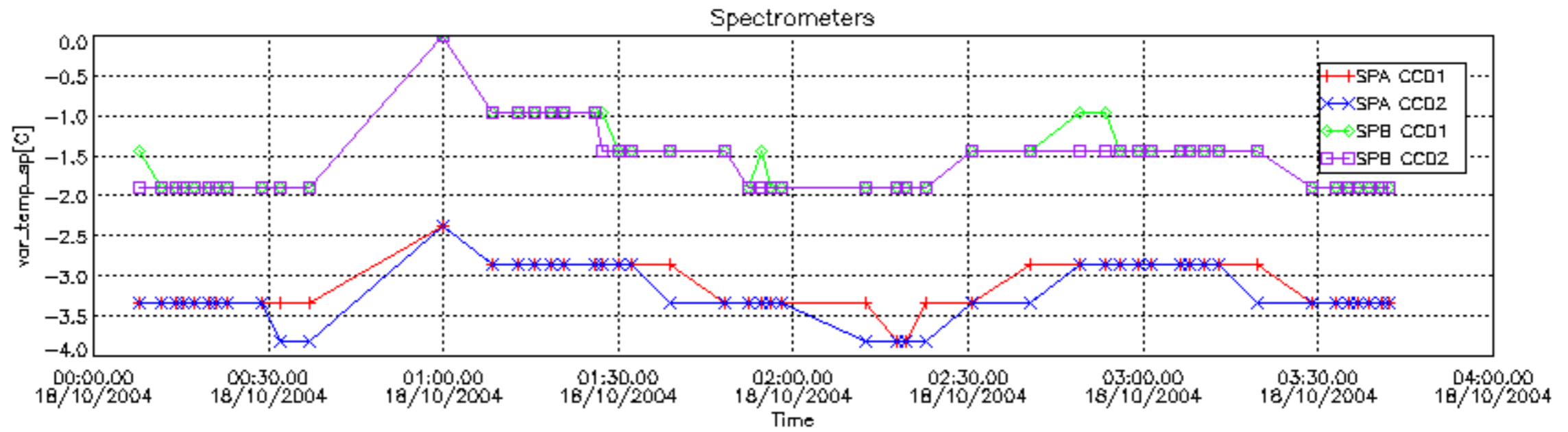
## Tangent altitude at which the star is lost

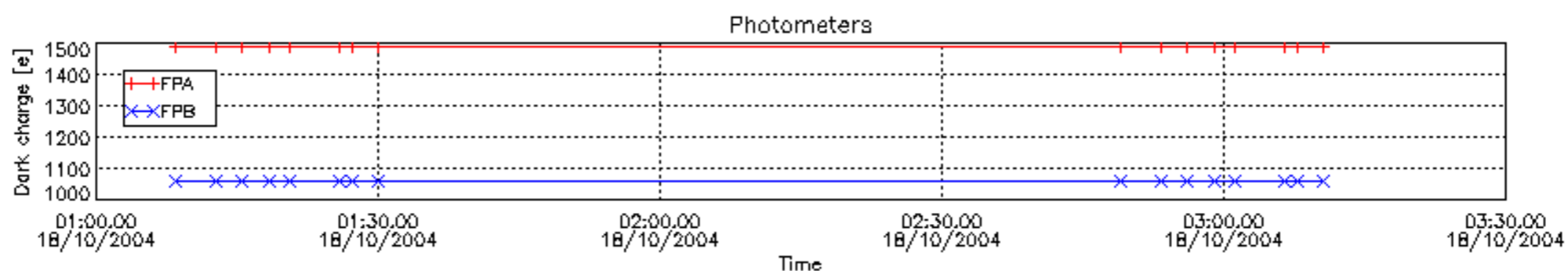
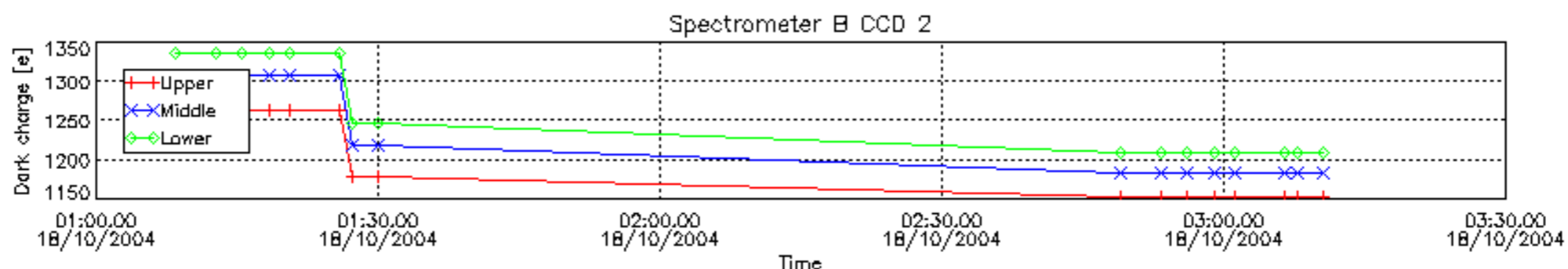
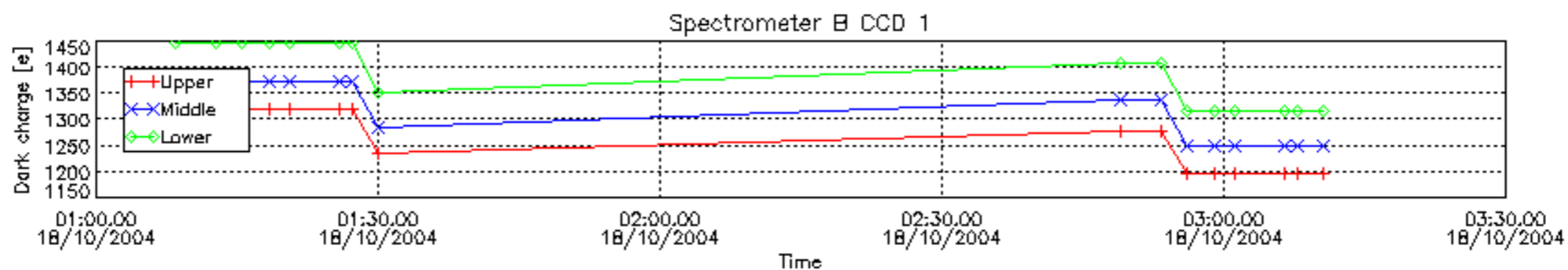
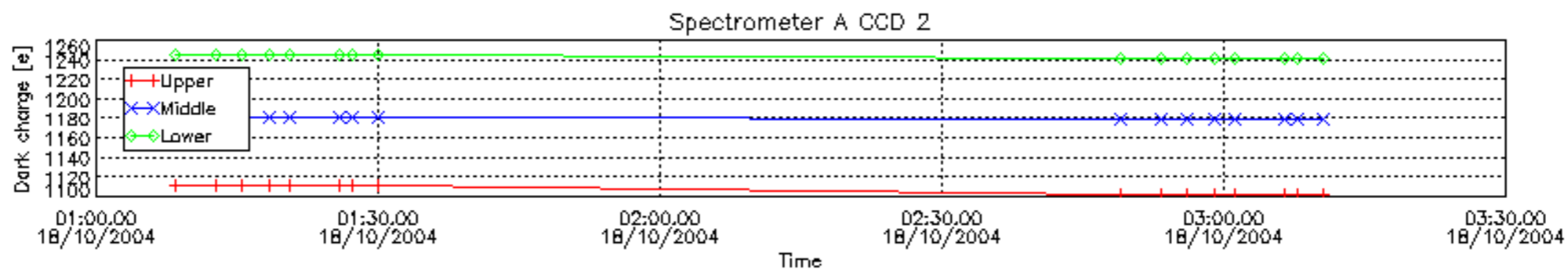
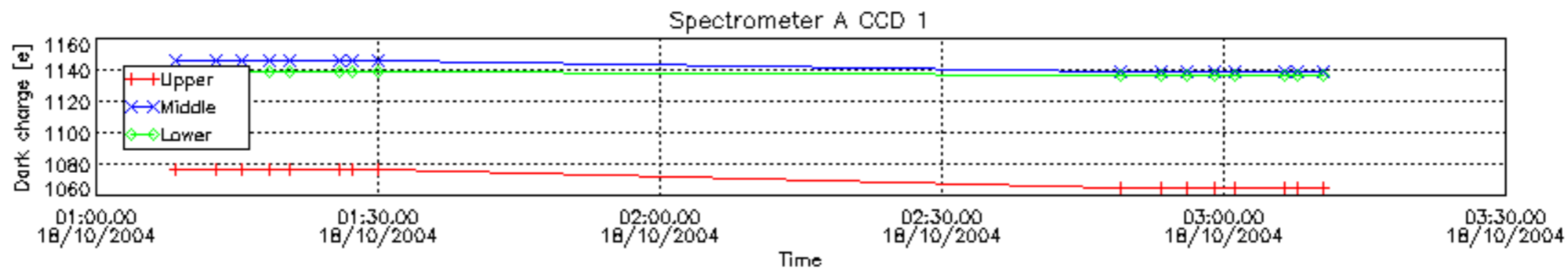


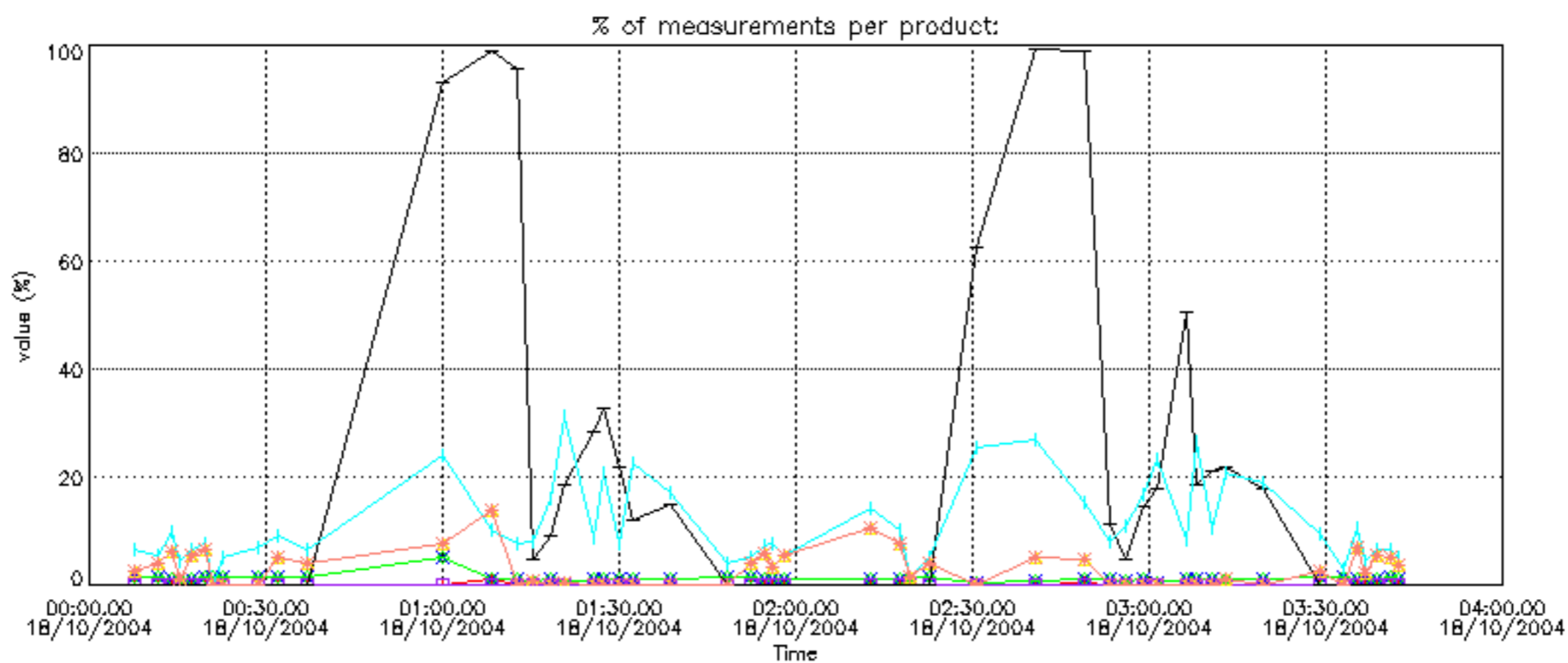
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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 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.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1448.7	1461.1	1446.4
St. deviation:	4.6863	5.6101	6.9345	8.0625
Maximum:	1503.0	1542.0	1513.0	1510.0
Minimum:	1433.0	1416.0	1436.0	1420.0
Number of data:	26600.	26600.	30750.	30750.

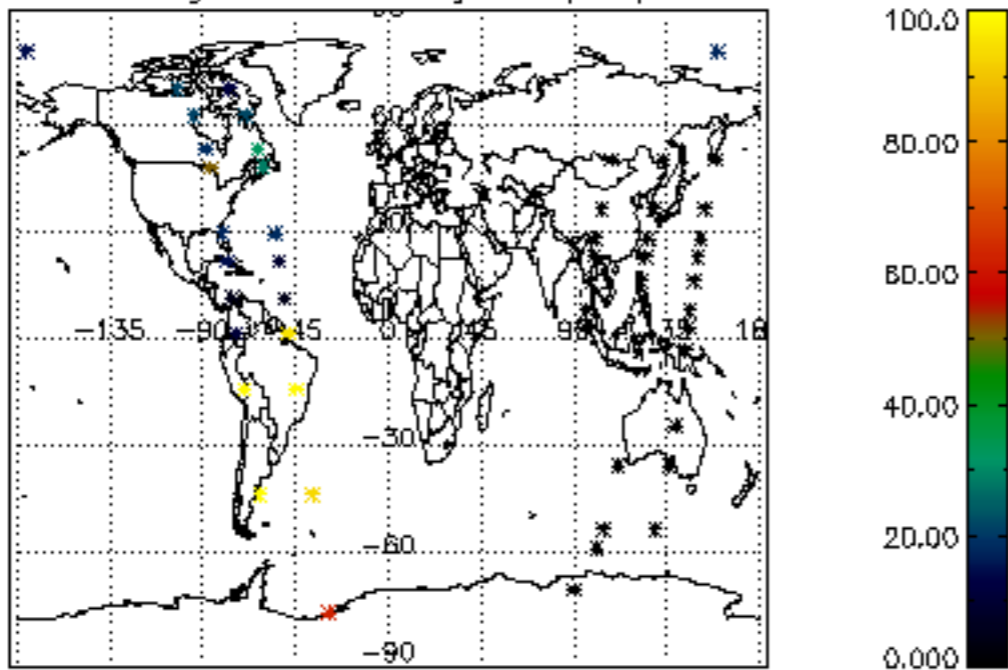




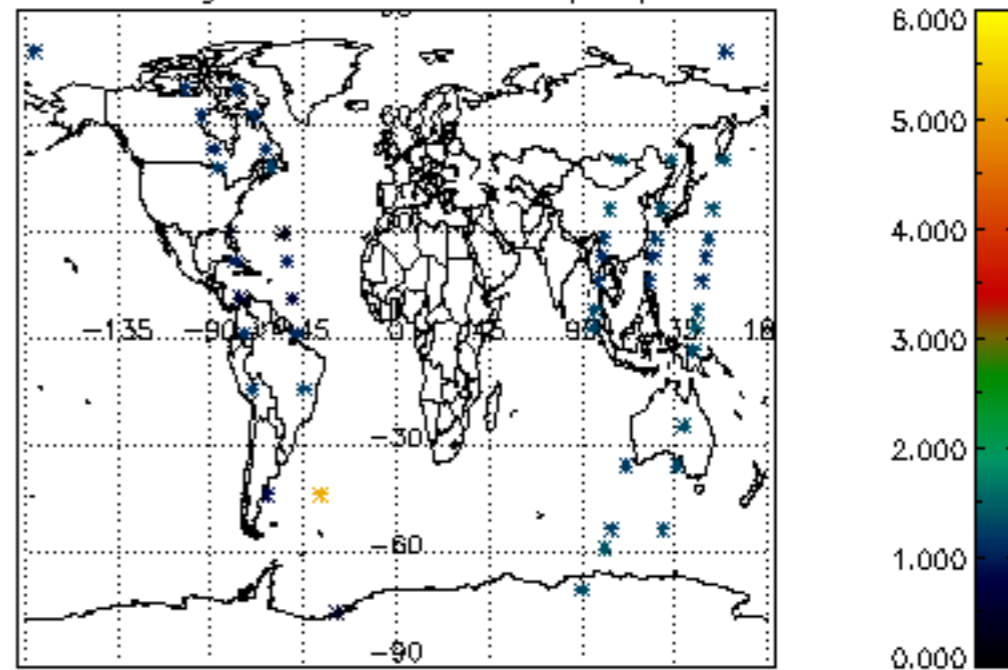




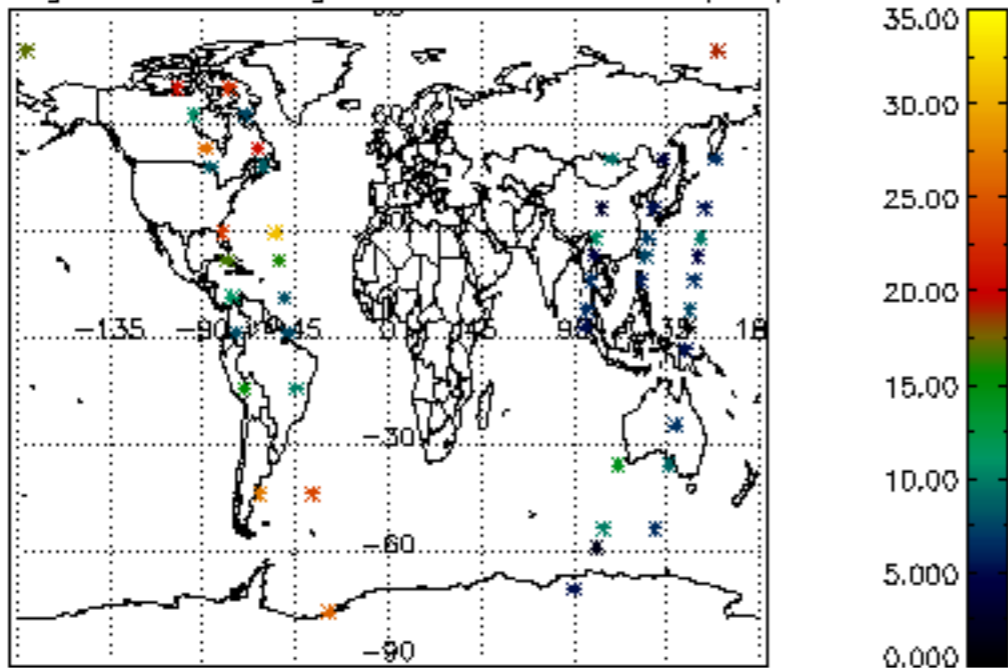
Percentage of cosmic ray hits per profile



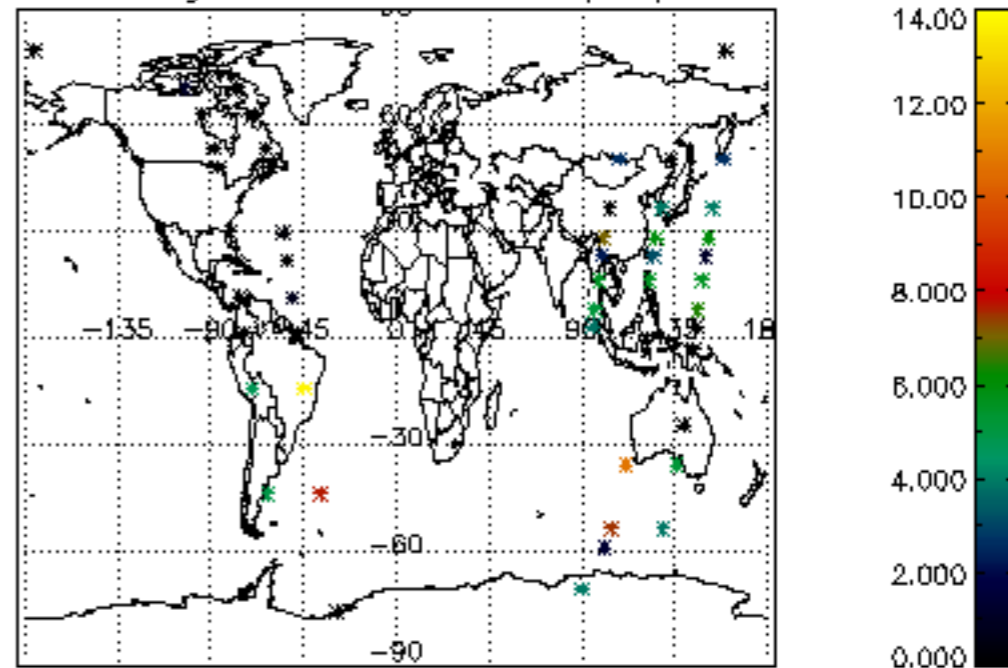
Percentage of datation errors per profile



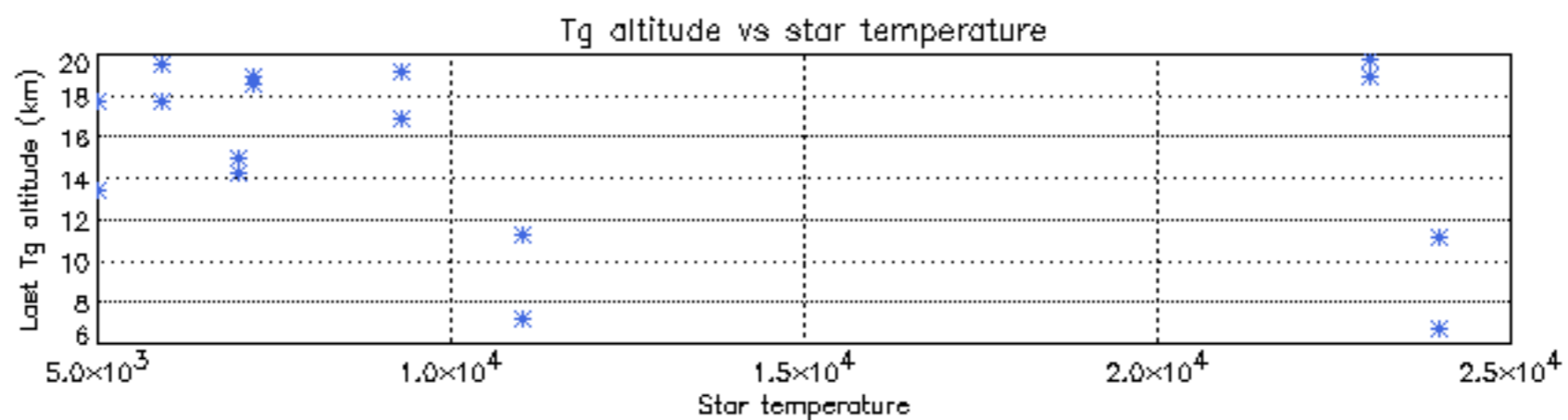
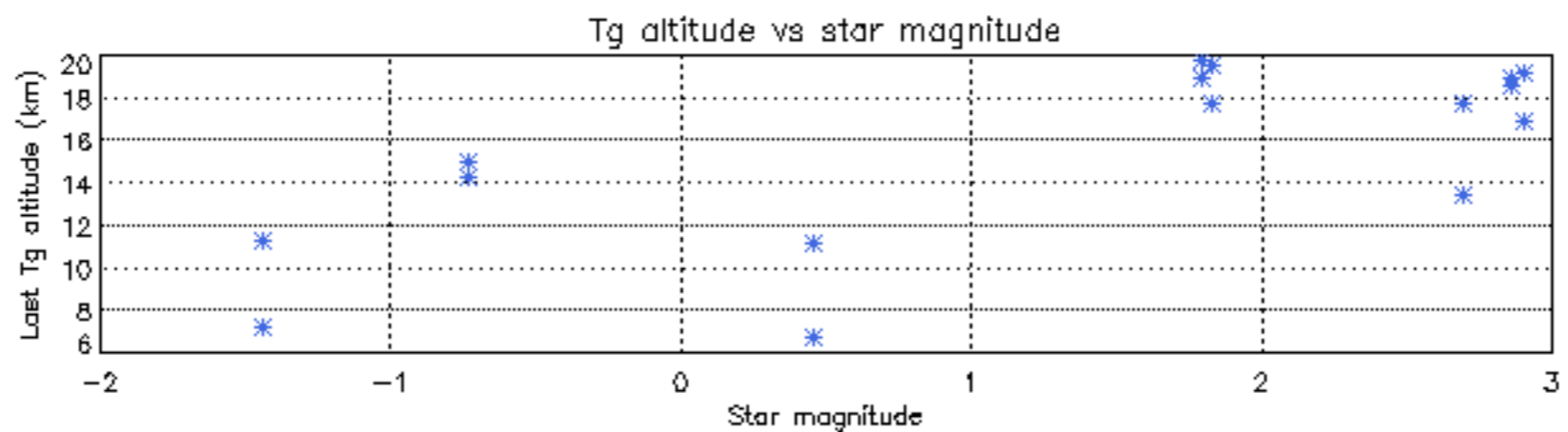
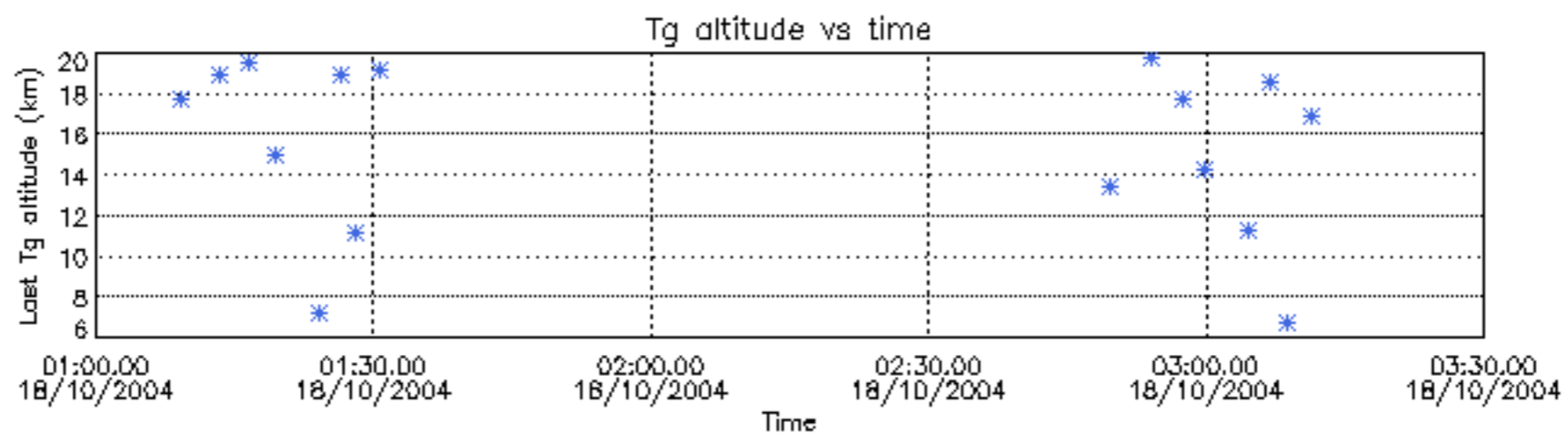
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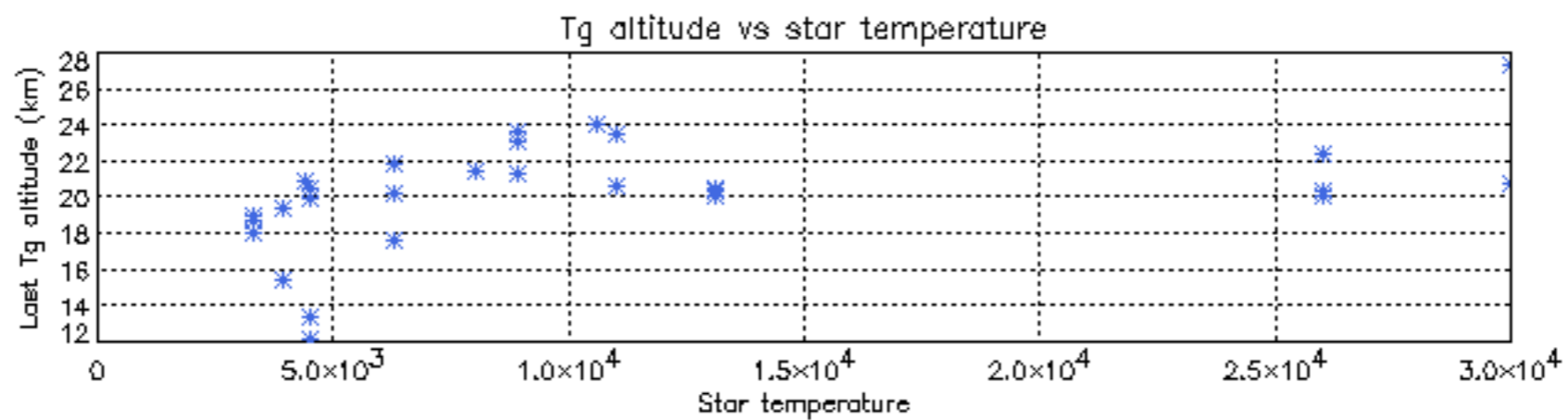
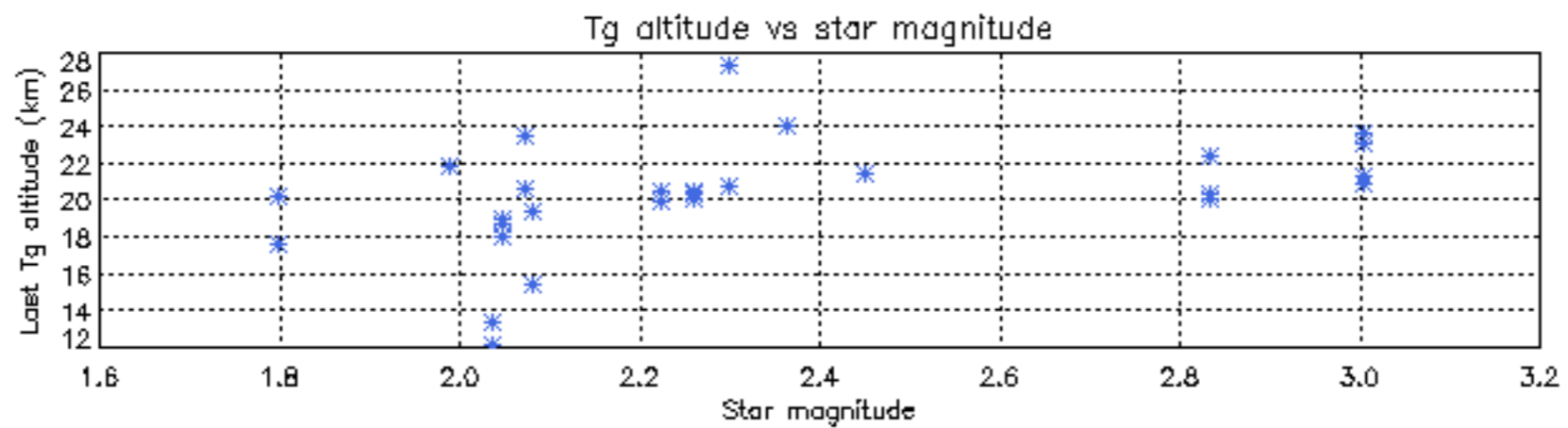
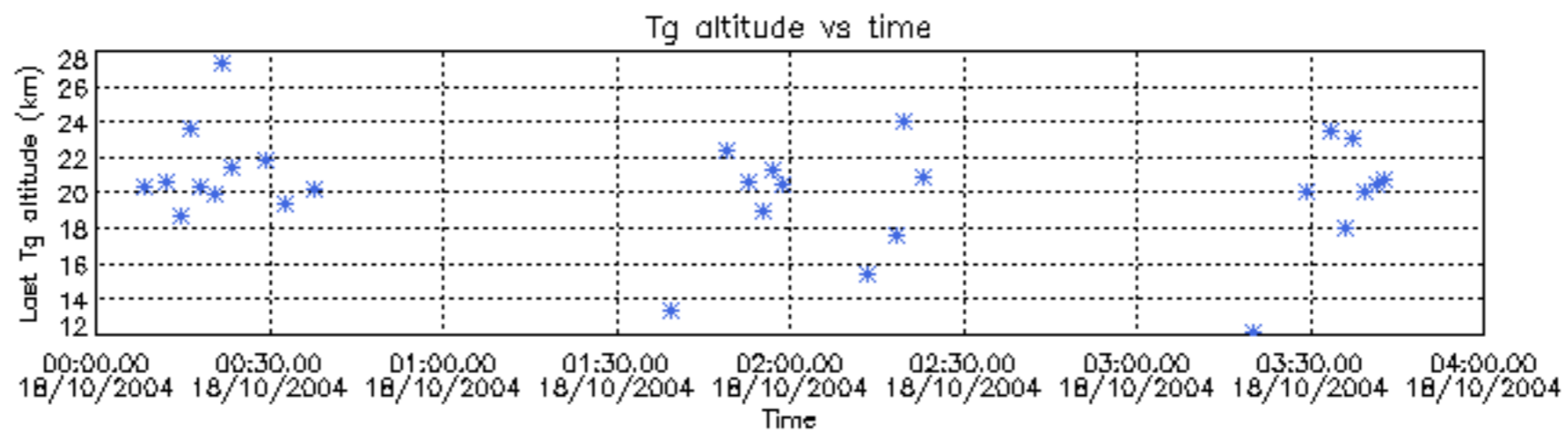
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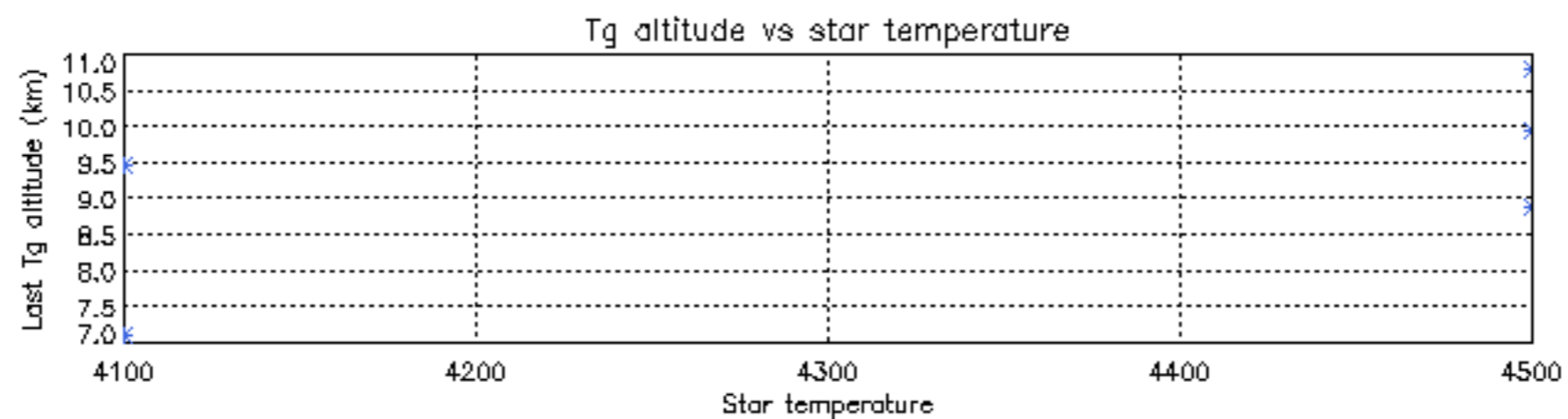
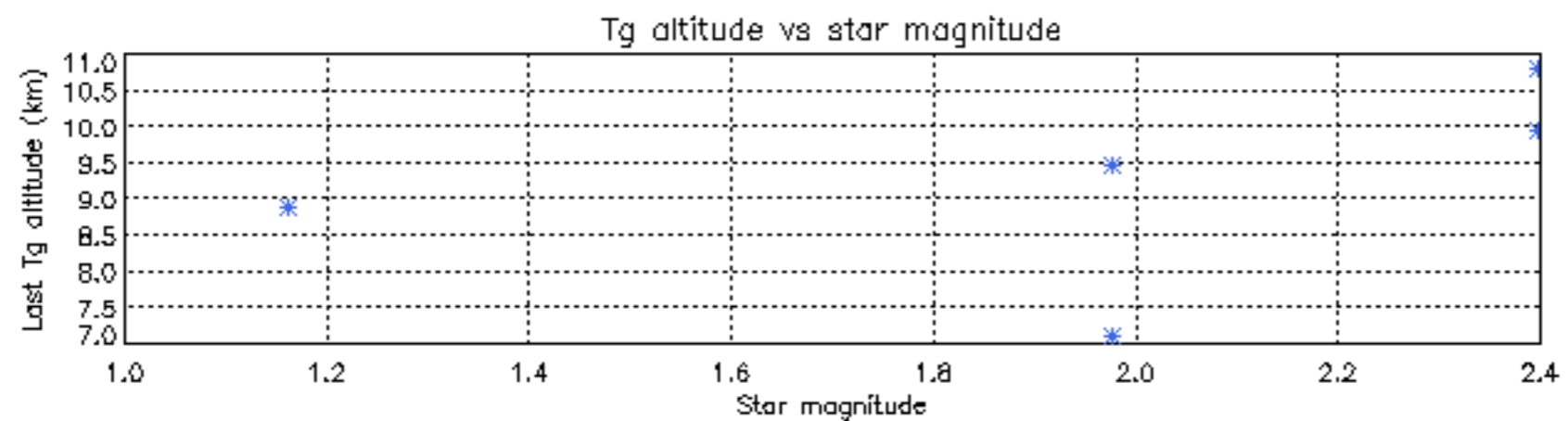
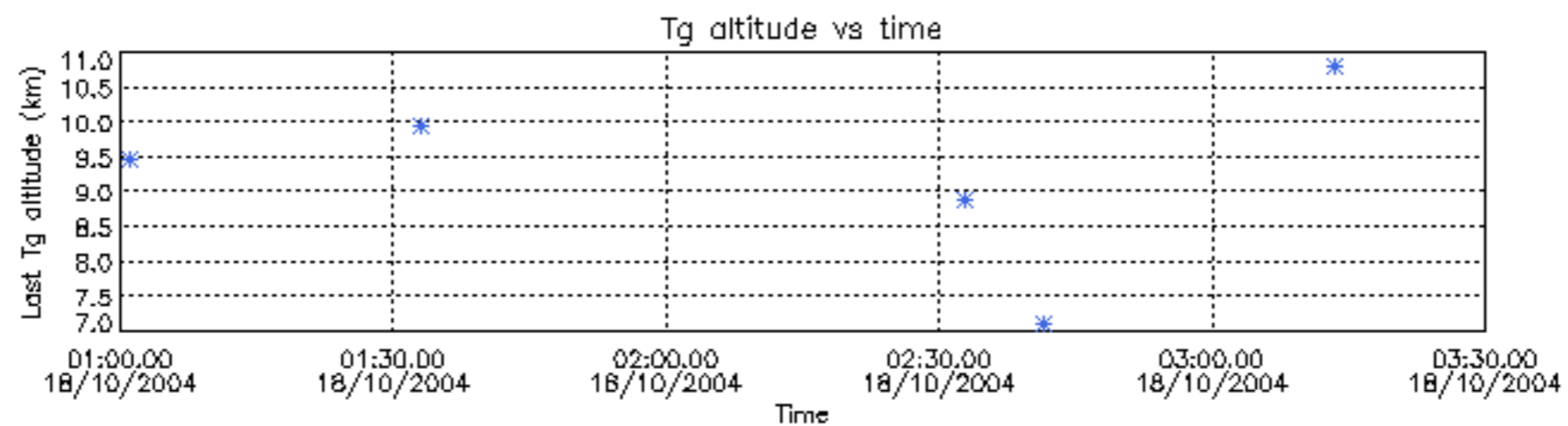
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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13;	1559.4;	04-OCT-2004	00:37:53;	Dark	;	53.5;	52;	16Bet Cet	;	2.04;	4500;occ;	107;	0;	13569
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17; 938.8; 03-OCT-2004 07:41:33; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13559
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19; 1425.6; 03-OCT-2004 07:49:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;13559
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13; -4.3; 04-OCT-2004 03:33:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13570
14; 121.9; 04-OCT-2004 03:35:07; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;13571
15; 206.5; 04-OCT-2004 03:36:32; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;13571
16; 375.7; 04-OCT-2004 03:39:21; Dark ; 68.0; 108; Alp Col ; 2.65; 15200;occ; 136; 0;13571
17; 608.4; 04-OCT-2004 03:43:14; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13571
18; 748.7; 04-OCT-2004 03:45:34; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13571
19; 836.0; 04-OCT-2004 03:47:01; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;13571
20; 946.9; 04-OCT-2004 03:48:52; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13571
21; 1153.0; 04-OCT-2004 03:52:18; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;13571
22; 1428.0; 04-OCT-2004 03:56:53; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;13571
23; 1562.2; 04-OCT-2004 03:59:07; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;13571
24; 1778.9; 04-OCT-2004 04:02:44; Bright; 200.0; 165; 34Gam Eri ; 2.95; 3200;occ; 400; 0;13571
25; 2169.3; 04-OCT-2004 04:09:15; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13571
26; 2385.5; 04-OCT-2004 04:12:51; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13571
27; 2626.4; 04-OCT-2004 04:16:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13571
28; 2801.1; 04-OCT-2004 04:19:46; Bright; 57.0; 173; 4Bet Tri ; 3.00; 8900;occ; 114; 0;13571
29; 2926.4; 04-OCT-2004 04:21:52; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13571
30; 3012.0; 04-OCT-2004 04:23:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13571
31; 3221.5; 04-OCT-2004 04:26:47; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;13571
32; 3426.1; 04-OCT-2004 04:30:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13571
33; 3563.1; 04-OCT-2004 04:32:28; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13571

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2;	-2036.8;	04-OCT-2004	04:39:44;	Bright;	38.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	76;	0;	13571	
3;	-1841.6;	04-OCT-2004	04:43:00;	Bright;	52.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	104;	0;	13571	
4;	-1722.5;	04-OCT-2004	04:44:59;	Bright;	105.0;	107;	37The	Aur	;	2.65;	11000;	occ;	210;	0;	13571	
5;	-1516.5;	04-OCT-2004	04:48:25;	Bright;	63.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	126;	0;	13571	
6;	-1188.3;	04-OCT-2004	04:53:53;	Dark	;	126.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	253;	0;	13571
7;	-816.5;	04-OCT-2004	05:00:05;	Dark	;	78.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	157;	0;	13571
8;	-682.8;	04-OCT-2004	05:02:19;	Dark	;	255.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	510;	0;	13571
9;	-275.5;	04-OCT-2004	05:09:06;	Dark	;	51.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	103;	0;	13571
10;	-186.6;	04-OCT-2004	05:10:35;	Dark	;	45.5;	70;	Zet	Pup	;	2.25;	39000;	occ;	91;	0;	13571
11;	-79.4;	04-OCT-2004	05:12:22;	Dark	;	40.5;	46;	Del	Vel	;	1.95;	10600;	occ;	81;	0;	13571
12;	-3.6;	04-OCT-2004	05:13:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13571
13;	122.6;	04-OCT-2004	05:15:44;	Dark	;	46.5;	161;	Tau	Pup	;	2.93;	4500;	occ;	93;	0;	13572
14;	207.6;	04-OCT-2004	05:17:09;	Dark	;	60.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	120;	0;	13572
15;	379.5;	04-OCT-2004	05:20:01;	Dark	;	66.0;	108;	Alp	Col	;	2.65;	15200;	occ;	132;	0;	13572
16;	608.4;	04-OCT-2004	05:23:50;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	13572
17;	748.9;	04-OCT-2004	05:26:10;	Dark	;	39.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	79;	0;	13572
18;	836.7;	04-OCT-2004	05:27:38;	Dark	;	52.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	104;	0;	13572
19;	948.2;	04-OCT-2004	05:29:30;	Dark	;	50.0;	157;	The1Eri		;	2.91;	9300;	occ;	100;	0;	13572
20;	1153.6;	04-OCT-2004	05:32:55;	Dark	;	48.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	97;	0;	13572
21;	1428.0;	04-OCT-2004	05:37:29;	Dark	;	43.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	87;	0;	13572
22;	1562.9;	04-OCT-2004	05:39:44;	Dark	;	48.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	97;	0;	13572
23;	1776.6;	04-OCT-2004	05:43:18;	Bright;	200.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	400;	0;	13572	
24;	2170.0;	04-OCT-2004	05:49:51;	Bright;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	13572	
25;	2386.2;	04-OCT-2004	05:53:27;	Bright;	36.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	73;	0;	13572	
26;	2626.5;	04-OCT-2004	05:57:28;	Bright;	44.5;	53;	43Bet	And	;	2.05;	3300;	occ;	89;	0;	13572	
27;	2799.0;	04-OCT-2004	06:00:20;	Bright;	58.0;	173;	4Bet	Tri	;	3.00;	8900;	occ;	116;	0;	13572	
28;	2926.3;	04-OCT-2004	06:02:28;	Bright;	42.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	84;	0;	13572	
29;	3011.8;	04-OCT-2004	06:03:53;	Bright;	41.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	82;	0;	13572	
30;	3220.5;	04-OCT-2004	06:07:22;	Bright;	52.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	105;	0;	13572	
31;	3426.5;	04-OCT-2004	06:10:48;	Bright;	37.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	75;	0;	13572	
32;	3563.7;	04-OCT-2004	06:13:05;	Bright;	39.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	79;	0;	13572	

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1;	-4472.7;	04-OCT-2004	14:02:44;	Dark	;	49.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	99;	0;	13577
2;	-4269.4;	04-OCT-2004	14:06:08;	Bright;	217.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	434;	0;	13577	
3;	-3866.8;	04-OCT-2004	14:12:50;	Bright;	39.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	78;	0;	13577	
4;	-3650.0;	04-OCT-2004	14:16:27;	Bright;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	13577	
5;	-3415.5;	04-OCT-2004	14:20:21;	Bright;	50.5;	53;	43Bet	And	;	2.05;	3300;	occ;	101;	0;	13577	
6;	-3241.6;	04-OCT-2004	14:23:15;	Bright;	56.0;	173;	4Bet	Tri	;	3.00;	8900;	occ;	112;	0;	13577	
7;	-3112.0;	04-OCT-2004	14:25:25;	Bright;	42.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	85;	0;	13577	
8;	-3026.2;	04-OCT-2004	14:26:51;	Bright;	41.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	82;	0;	13577	
9;	-2819.8;	04-OCT-2004	14:30:17;	Bright;	50.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	101;	0;	13577	
10;	-2610.3;	04-OCT-2004	14:33:47;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13577	
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12;	-2126.6;	04-OCT-2004	14:41:50;	Bright;	36.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	73;	0;	13577	
13;	-2035.9;	04-OCT-2004	14:43:21;	Bright;	35.5;	82;	48Bet	UMa	;	2.37;	10600;	occ;	71;	0;	13577	
14;	-1843.1;	04-OCT-2004	14:46:34;	Bright;	38.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	76;	0;	13577	
15;	-1724.7;	04-OCT-2004	14:48:32;	Bright;	108.5;	107;	37The	Aur	;	2.65;	11000;	occ;	217;	0;	13577	
16;	-1515.0;	04-OCT-2004	14:52:02;	Bright;	66.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	132;	0;	13577	
17;	-1179.8;	04-OCT-2004	14:57:37;	Dark	;	134.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	268;	0;	13577
18;	-808.7;	04-OCT-2004	15:03:48;	Dark	;	81.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	162;	0;	13577
19;	-652.0;	04-OCT-2004	15:06:25;	Dark	;	255.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	510;	0;	13577
20;	-273.8;	04-OCT-2004	15:12:43;	Dark	;	47.0;	65;	Lam	Vel	;	2.20;	4400;	occ;	94;	0;	13577
21;	-180.7;	04-OCT-2004	15:14:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13577
22;	-63.9;	04-OCT-2004	15:16:13;	Dark	;	90.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	180;	0;	13577
23;	127.3;	04-OCT-2004	15:19:24;	Dark	;	48.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	96;	0;	13578
24;	211.9;	04-OCT-2004	15:20:49;	Dark	;	48.5;	2;	Alp	Car	;	-0.74;	7000;	occ;	97;	0;	13578
25;	389.2;	04-OCT-2004	15:23:46;	Dark	;	65.0;	108;	Alp	Col	;	2.65;	15200;	occ;	130;	0;	13578
26;	608.9;	04-OCT-2004	15:27:26;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	13578
27;	750.8;	04-OCT-2004	15:29:48;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13578
28;	838.9;	04-OCT-2004	15:31:16;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	13578
29;	949.8;	04-OCT-2004	15:33:07;	Dark	;	56.0;	157;	The1Eri		;	2.91;	9300;	occ;	112;	0;	13578
30;	1154.5;	04-OCT-2004	15:36:31;	Dark	;	44.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	88;	0;	13578

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7;-3242.6; 04-OCT-2004 16:03:50; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13578
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9;-3026.5; 04-OCT-2004 16:07:26; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13578
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13;-2126.6; 04-OCT-2004 16:22:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13578
14;-2035.9; 04-OCT-2004 16:23:57; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13578
15;-1841.1; 04-OCT-2004 16:27:12; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13578
16;-1725.4; 04-OCT-2004 16:29:08; Bright; 99.0; 107; 37The Aur ; 2.65; 11000;occ; 198; 0;13578
17;-1514.8; 04-OCT-2004 16:32:38; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13578
18;-1178.8; 04-OCT-2004 16:38:14; Dark ; 138.5; 170; 27Eps Gem ; 3.00; 9700;occ; 277; 0;13578
19; -807.8; 04-OCT-2004 16:44:25; Dark ; 79.5; 8; 10Alp CMi ; 0.40; 6500;occ; 159; 0;13578
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21; -272.8; 04-OCT-2004 16:53:20; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13578
22; -180.3; 04-OCT-2004 16:54:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13578
23; -62.1; 04-OCT-2004 16:56:51; Dark ; 90.5; 1; 9Alp CMa ; -1.44; 11000;occ; 181; 0;13578
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2; 213.8; 04-OCT-2004 18:42:03; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13580
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4; 608.4; 04-OCT-2004 18:48:37; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13580
5; 751.1; 04-OCT-2004 18:51:00; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13580
6; 839.2; 04-OCT-2004 18:52:28; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13580
7; 953.0; 04-OCT-2004 18:54:22; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13580
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6;-3652.4; 04-OCT-2004 19:18:13; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;13580
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8;-3245.2; 04-OCT-2004 19:25:00; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13580
9;-2823.4; 04-OCT-2004 19:32:02; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13580
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12;-2127.5; 04-OCT-2004 19:43:37; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13580
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15;-1726.5; 04-OCT-2004 19:50:18; Bright; 104.0; 107; 37The Aur ; 2.65; 11000;occ; 208; 0;13580
16;-1514.6; 04-OCT-2004 19:53:50; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13580
17;-1176.0; 04-OCT-2004 19:59:29; Dark ; 144.5; 170; 27Eps Gem ; 3.00; 9700;occ; 289; 0;13580
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20; -271.9; 04-OCT-2004 20:14:33; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;13580
21; -180.1; 04-OCT-2004 20:16:05; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;13580
22; 3.4; 04-OCT-2004 20:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13581
23; 214.5; 04-OCT-2004 20:22:39; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;13581
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26; 752.0; 04-OCT-2004 20:31:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13581
27; 840.2; 04-OCT-2004 20:33:05; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13581
28; 953.6; 04-OCT-2004 20:34:59; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13581
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1; -803.8; 04-OCT-2004 21:46:17; Dark ; 83.5; 8; 10Alp CMi ; 0.40; 6500;occ; 167; 0;13581
2; -629.4; 04-OCT-2004 21:49:11; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13581
3; -271.4; 04-OCT-2004 21:55:09; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;13581
4; -179.3; 04-OCT-2004 21:56:42; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;13581
5; 4.3; 04-OCT-2004 21:59:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13582
6; 215.3; 04-OCT-2004 22:03:16; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13582
7; 395.0; 04-OCT-2004 22:06:16; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;13582
8; 609.3; 04-OCT-2004 22:09:50; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13582
9; 752.4; 04-OCT-2004 22:12:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13582
10; 840.6; 04-OCT-2004 22:13:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13582

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3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
5;	5.9;	05-OCT-2004	01:20:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13584
6;	216.6;	05-OCT-2004	01:24:29;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	13584
7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
9;	752.5;	05-OCT-2004	01:33:25;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13584
10;	841.3;	05-OCT-2004	01:34:54;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	13584
11;	955.7;	05-OCT-2004	01:36:48;	Dark	;	53.0;	157;	The1Eri	;	2.91;	9300;occ;	106;	0;	13584
12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
15;	1754.2;	05-OCT-2004	01:50:07;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13584	
16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
5;	-1416.6;	05-OCT-2004	07:39:40;	Bright;	74.0;	17;	78Bet Gem	;	1.16;	4500;occ;	148;	0;	13587	
6;	-1166.7;	05-OCT-2004	07:43:50;	Dark	;	133.5;	170;	27Eps Gem	;	3.00;	9700;occ;	267;	0;	13587
7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
10;	-174.8;	05-OCT-2004	08:00:22;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	13587
11;	9.0;	05-OCT-2004	08:03:26;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13588
12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
13;	404.1;	05-OCT-2004	08:10:01;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13588
14;	609.9;	05-OCT-2004	08:13:26;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13588
15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
18;	1157.8;	05-OCT-2004	08:22:34;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13588
19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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2;	-4288.3;	05-OCT-2004	08:32:24;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13588	
3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
10;	-2610.5;	05-OCT-2004	09:00:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	13588	
11;	-2468.3;	05-OCT-2004	09:02:44;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	13588	
12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
13;	-2034.8;	05-OCT-2004	09:09:58;	Bright;	36.5;	82;	48Bet UMA	;	2.37;	10600;occ;	73;	0;	13588	
14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
15;	-1730.5;	05-OCT-2004	09:15:02;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13588	
16;	-1415.9;	05-OCT-2004	09:20:17;	Bright;	65.5;	17;	78Bet Gem	;	1.16;	4500;occ;	131;	0;	13588	
17;	-1165.1;	05-OCT-2004	09:24:27;	Dark	;	135.0;	170;	27Eps Gem	;	3.00;	9700;occ;	270;	0;	13588
18;	-794.9;	05-OCT-2004	09:30:38;	Dark	;	89.5;	8;	10Alp CMI	;	0.40;	6500;occ;	179;	0;	13588
19;	-392.0;	05-OCT-2004	09:37:20;	Dark	;	53.0;	132;	15Rho Pup	;	2.80;	6900;occ;	106;	0;	13588
20;	-267.7;	05-OCT-2004	09:39:25;	Dark	;	50.0;	65;	Lam Vel	;	2.20;	4400;occ;	100;	0;	13588
21;	-174.0;	05-OCT-2004	09:40:58;	Dark	;	44.5;	70;	Zet Pup	;	2.25;	39000;occ;	89;	0;	13588
22;	9.9;	05-OCT-2004	09:44:02;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13589
23;	220.8;	05-OCT-2004	09:47:33;	Dark	;	59.0;	2;	Alp Car	;	-0.74;	7000;occ;	118;	0;	13589
24;	405.0;	05-OCT-2004	09:50:37;	Dark	;	65.0;	108;	Alp Col	;	2.65;	15200;occ;	130;	0;	13589

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29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
30; 1430.7; 05-OCT-2004 10:07:43; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;13589
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5;-3254.7; 05-OCT-2004 10:30:14; Bright; 56.5; 173; 4Bet Tri ; 3.00; 8900;occ; 113; 0;13589
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9;-2611.2; 05-OCT-2004 10:40:57; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;13589
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12;-2034.4; 05-OCT-2004 10:50:34; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13589
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15;-1415.3; 05-OCT-2004 11:00:53; Bright; 85.0; 17; 78Bet Gem ; 1.16; 4500;occ; 170; 0;13589
16;-1163.5; 05-OCT-2004 11:05:05; Dark ; 143.0; 170; 27Eps Gem ; 3.00; 9700;occ; 286; 0;13589
17; -792.8; 05-OCT-2004 11:11:16; Dark ; 99.0; 8; 10Alp CMi ; 0.40; 6500;occ; 198; 0;13589
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23; 407.0; 05-OCT-2004 11:31:15; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;13590
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4;-3649.2; 05-OCT-2004 12:04:15; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13590
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15;-1731.3; 05-OCT-2004 12:36:13; Bright; 112.5; 107; 37The Aur ; 2.65; 11000;occ; 225; 0;13590
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23; 221.7; 05-OCT-2004 13:08:46; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;13591
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2;-3870.6; 17-OCT-2004 07:21:48; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13759  
3;-3634.6; 17-OCT-2004 07:25:44; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13759  
4;-3490.8; 17-OCT-2004 07:28:08; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;13759  
5;-3402.1; 17-OCT-2004 07:29:36; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13759  
6;-3288.5; 17-OCT-2004 07:31:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13759  
7;-3155.6; 17-OCT-2004 07:33:43; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13759  
8;-3075.3; 17-OCT-2004 07:35:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13759  
9;-2972.7; 17-OCT-2004 07:36:46; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13759  
10;-2612.5; 17-OCT-2004 07:42:46; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13759  
11;-2426.7; 17-OCT-2004 07:45:52; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13759  
12;-2117.4; 17-OCT-2004 07:51:01; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;13759  
13;-2023.3; 17-OCT-2004 07:52:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;13759  
14;-1819.7; 17-OCT-2004 07:55:59; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13759  
15;-1341.1; 17-OCT-2004 08:03:57; Dark ; 119.5; 17; 78Bet Gem ; 1.16; 4500;occ; 239; 0;13759  
16; -745.5; 17-OCT-2004 08:13:53; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;13759  
17; -239.8; 17-OCT-2004 08:22:19; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13759  
18; -86.0; 17-OCT-2004 08:24:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13759  
19; 19.0; 17-OCT-2004 08:26:37; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13760  
20; 146.3; 17-OCT-2004 08:28:45; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;13760  
21; 358.0; 17-OCT-2004 08:32:16; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;13760  
22; 458.9; 17-OCT-2004 08:33:57; Dark ; 204.0; 1; 9Alp CMA ; -1.44; 11000;occ; 408; 0;13760  
23; 809.4; 17-OCT-2004 08:39:48; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13760  
24; 896.2; 17-OCT-2004 08:41:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13760  
25; 1056.2; 17-OCT-2004 08:43:55; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13760  
26; 1194.8; 17-OCT-2004 08:46:13; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13760  
27; 1589.9; 17-OCT-2004 08:52:48; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;13760

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2;-3634.4; 17-OCT-2004 09:06:20; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13760  
3;-3491.1; 17-OCT-2004 09:08:43; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13760  
4;-3403.1; 17-OCT-2004 09:10:11; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13760  
5;-3289.1; 17-OCT-2004 09:12:05; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13760  
6;-3156.0; 17-OCT-2004 09:14:18; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13760  
7;-3075.4; 17-OCT-2004 09:15:39; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13760  
8;-2972.3; 17-OCT-2004 09:17:22; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13760  
9;-2612.2; 17-OCT-2004 09:23:22; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13760  
10;-2426.5; 17-OCT-2004 09:26:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13760  
11;-2117.6; 17-OCT-2004 09:31:37; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;13760  
12;-2023.4; 17-OCT-2004 09:33:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13760  
13;-1819.6; 17-OCT-2004 09:36:35; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13760  
14;-1340.6; 17-OCT-2004 09:44:34; Dark ; 110.5; 17; 78Bet Gem ; 1.16; 4500;occ; 221; 0;13760  
15; -744.7; 17-OCT-2004 09:54:30; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;13760  
16; -239.4; 17-OCT-2004 10:02:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;13760  
17; -85.5; 17-OCT-2004 10:05:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13760  
18; 19.8; 17-OCT-2004 10:07:14; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;13761  
19; 146.5; 17-OCT-2004 10:09:21; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13761  
20; 358.7; 17-OCT-2004 10:12:53; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;13761  
21; 462.2; 17-OCT-2004 10:14:36; Dark ; 175.5; 1; 9Alp CMA ; -1.44; 11000;occ; 351; 0;13761  
22; 809.2; 17-OCT-2004 10:20:23; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13761  
23; 896.2; 17-OCT-2004 10:21:50; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13761  
24; 1056.7; 17-OCT-2004 10:24:31; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;13761  
25; 1195.1; 17-OCT-2004 10:26:49; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;13761  
26; 1589.8; 17-OCT-2004 10:33:24; Dark ; 0.0; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;13761

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3;-3634.7; 17-OCT-2004 10:46:55; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13761
4;-3491.7; 17-OCT-2004 10:49:18; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13761
5;-3403.8; 17-OCT-2004 10:50:46; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13761
6;-3289.7; 17-OCT-2004 10:52:40; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13761
7;-3156.0; 17-OCT-2004 10:54:54; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13761
8;-3076.0; 17-OCT-2004 10:56:14; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13761
9;-2972.3; 17-OCT-2004 10:57:58; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;13761
10;-2613.0; 17-OCT-2004 11:03:57; Bright; 10.5; 49; 1Alp UMi ; 1.99; 6300;occ; 21; 0;13761
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3;-3635.3; 17-OCT-2004 12:27:31; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13762
4;-3492.6; 17-OCT-2004 12:29:53; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13762
5;-3404.0; 17-OCT-2004 12:31:22; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13762
6;-3290.3; 17-OCT-2004 12:33:16; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13762
7;-3156.0; 17-OCT-2004 12:35:30; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13762
8;-3076.8; 17-OCT-2004 12:36:49; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13762
9;-2972.7; 17-OCT-2004 12:38:33; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13762
10;-2614.9; 17-OCT-2004 12:44:31; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13762
11;-2426.1; 17-OCT-2004 12:47:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13762
12;-2117.3; 17-OCT-2004 12:52:49; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13762
13;-2023.5; 17-OCT-2004 12:54:23; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;13762
14;-1821.3; 17-OCT-2004 12:57:45; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13762
15;-1339.2; 17-OCT-2004 13:05:47; Dark ; 133.0; 17; 78Bet Gem ; 1.16; 4500;occ; 266; 0;13762
16;-743.9; 17-OCT-2004 13:15:42; Dark ; 57.0; 48; 30Alp Hya ; 1.98; 4100;occ; 114; 0;13762
17;-241.4; 17-OCT-2004 13:24:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;13762
18;-84.2; 17-OCT-2004 13:26:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13762
19; 20.5; 17-OCT-2004 13:28:27; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13763
20; 146.9; 17-OCT-2004 13:30:33; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;13763
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22; 470.4; 17-OCT-2004 13:35:56; Dark ; 190.0; 1; 9Alp CMa ; -1.44; 11000;occ; 380; 0;13763
23; 810.3; 17-OCT-2004 13:41:36; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13763
24; 896.3; 17-OCT-2004 13:43:02; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13763
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26; 1195.6; 17-OCT-2004 13:48:02; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13763
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3;-3635.3; 17-OCT-2004 14:08:07; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13763
4;-3492.3; 17-OCT-2004 14:10:30; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13763
5;-3404.7; 17-OCT-2004 14:11:57; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13763
6;-3290.4; 17-OCT-2004 14:13:52; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13763
7;-3156.5; 17-OCT-2004 14:16:05; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13763
8;-3077.0; 17-OCT-2004 14:17:25; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13763
9;-2972.2; 17-OCT-2004 14:19:10; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;13763
10;-2613.2; 17-OCT-2004 14:25:09; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13763
11;-2425.7; 17-OCT-2004 14:28:16; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13763
12;-2117.6; 17-OCT-2004 14:33:24; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13763
13;-2023.3; 17-OCT-2004 14:34:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13763
14;-1818.8; 17-OCT-2004 14:38:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13763
15;-1338.9; 17-OCT-2004 14:46:23; Dark ; 119.0; 17; 78Bet Gem ; 1.16; 4500;occ; 238; 0;13763
16;-743.0; 17-OCT-2004 14:56:19; Dark ; 61.0; 48; 30Alp Hya ; 1.98; 4100;occ; 122; 0;13763
17;-239.5; 17-OCT-2004 15:04:42; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;13763
18;-83.6; 17-OCT-2004 15:07:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13763
19; 21.2; 17-OCT-2004 15:09:03; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13764
20; 147.3; 17-OCT-2004 15:11:09; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13764
21; 361.1; 17-OCT-2004 15:14:43; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;13764
22; 473.8; 17-OCT-2004 15:16:36; Dark ; 204.5; 1; 9Alp CMa ; -1.44; 11000;occ; 409; 0;13764
23; 810.0; 17-OCT-2004 15:22:12; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13764
24; 896.7; 17-OCT-2004 15:23:39; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;13764
25; 1058.1; 17-OCT-2004 15:26:20; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13764
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3; 1059.7; 17-OCT-2004 20:28:10; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;13767
4; 1196.3; 17-OCT-2004 20:30:26; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;13767

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7; 2401.9; 17-OCT-2004 20:50:32; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13767
8; 2543.3; 17-OCT-2004 20:52:53; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;13767
9; 2629.1; 17-OCT-2004 20:54:19; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13767
10; 2743.2; 17-OCT-2004 20:56:13; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13767
11; 2879.4; 17-OCT-2004 20:58:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;13767
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13; 3066.3; 17-OCT-2004 21:01:36; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13767
14; 3424.1; 17-OCT-2004 21:07:34; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13767
15; 3612.4; 17-OCT-2004 21:10:42; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13767
16; 3918.6; 17-OCT-2004 21:15:49; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13767
17; 4012.1; 17-OCT-2004 21:17:22; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13767
18; 4217.7; 17-OCT-2004 21:20:48; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13767
19; 4698.8; 17-OCT-2004 21:28:49; Dark ; 126.0; 17; 78Bet Gem ; 1.16; 4500;occ; 252; 0;13767
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3; -81.3; 17-OCT-2004 21:49:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13767
4; 25.5; 17-OCT-2004 21:51:31; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13768
5; 186.7; 17-OCT-2004 21:54:13; Dark ; 78.0; 37; 25Del CMa ; 1.83; 5900;occ; 156; 0;13768
6; 364.3; 17-OCT-2004 21:57:10; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;13768
7; 488.0; 17-OCT-2004 21:59:14; Dark ; 204.5; 1; 9Alp CMa ; -1.44; 11000;occ; 409; 0;13768
8; 811.5; 17-OCT-2004 22:04:37; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13768
9; 898.0; 17-OCT-2004 22:06:04; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13768
10; 1060.1; 17-OCT-2004 22:08:46; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;13768
11; 1195.9; 17-OCT-2004 22:11:02; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13768
12; 1590.2; 17-OCT-2004 22:17:36; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13768
13; 2165.8; 17-OCT-2004 22:27:12; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;13768
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19; 2959.2; 17-OCT-2004 22:40:25; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13768
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22; 3612.4; 17-OCT-2004 22:51:18; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;13768
23; 3918.3; 17-OCT-2004 22:56:24; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;13768
24; 4012.1; 17-OCT-2004 22:57:58; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;13768
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