

# GOMOS Daily Report 21-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	23OCT2004 05:02:34
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (21OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

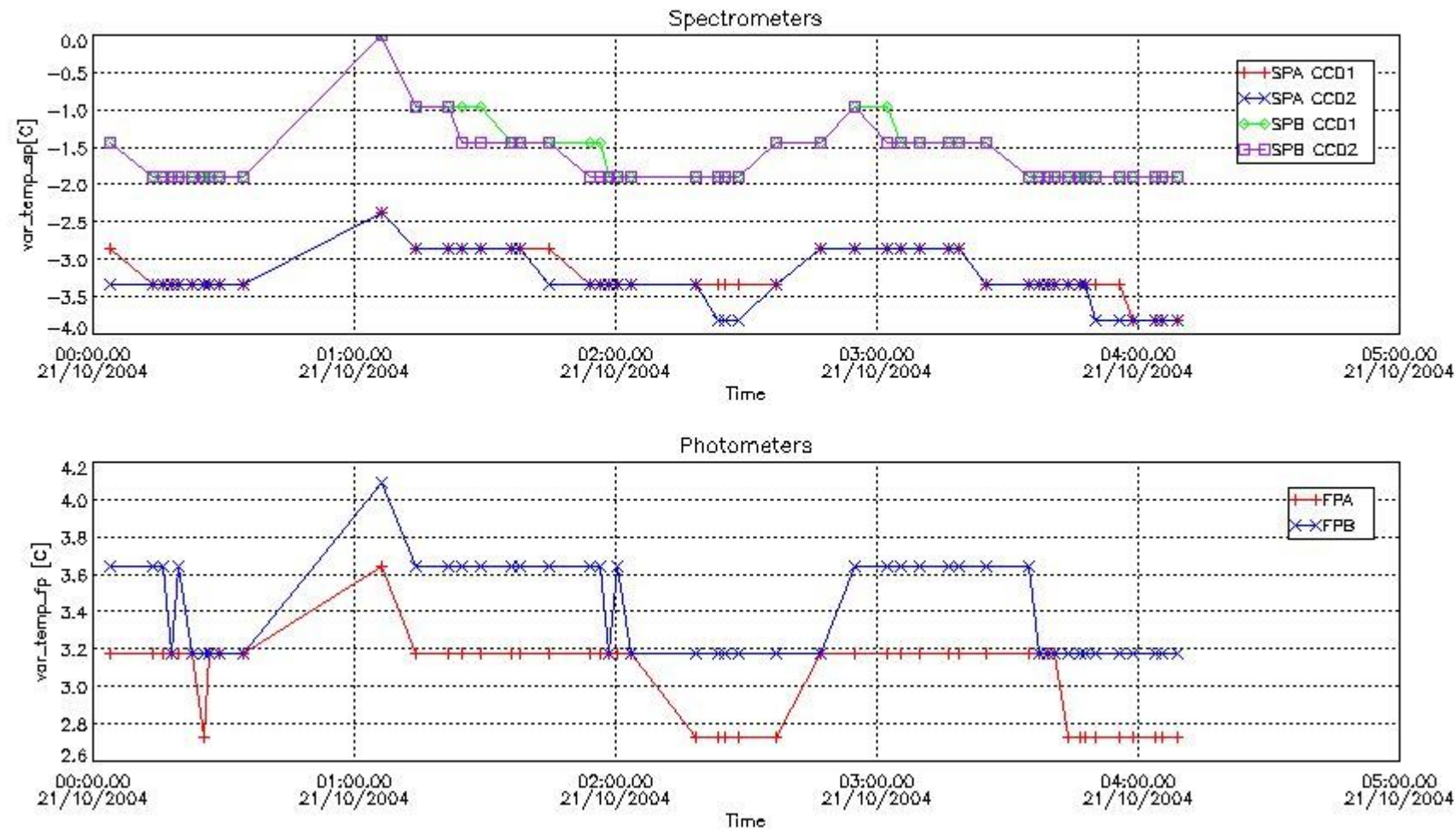
## 2. Summary of products arrived in PCF (Product Control Facility)

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

### 2.2 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_1PNPDE20041021_000401_000000462031_00231_13812_0007.N1	21-OCT-2004 00:04:01	Bright	45.500	52	16Bet Cet	2.0370	4500.0	91	13812	No
GOM_TRA_1PNPDE20041021_001333_000000402031_00231_13812_0008.N1	21-OCT-2004 00:13:33	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13812	No
GOM_TRA_1PNPDE20041021_001559_000000452031_00231_13812_0009.N1	21-OCT-2004 00:15:59	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	13812	No
GOM_TRA_1PNPDE20041021_001757_000000402031_00231_13812_0010.N1	21-OCT-2004 00:17:57	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13812	No
GOM_TRA_1PNPDE20041021_001937_000000432031_00231_13812_0011.N1	21-OCT-2004 00:19:37	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13812	No
GOM_TRA_1PNPDE20041021_002245_000000462031_00231_13812_0012.N1	21-OCT-2004 00:22:45	Bright	45.500	73	57Gam1And	2.2600	13100.	91	13812	No
GOM_TRA_1PNPDE20041021_002519_000000402031_00231_13812_0013.N1	21-OCT-2004 00:25:19	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13812	No
GOM_TRA_1PNPDE20041021_002638_000000392031_00231_13812_0014.N1	21-OCT-2004 00:26:38	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	13812	No
GOM_TRA_1PNPDE20041021_002849_000000392031_00231_13812_0015.N1	21-OCT-2004 00:28:49	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13812	No
GOM_TRA_1PNPDE20041021_003427_000000392031_00231_13812_0016.N1	21-OCT-2004 00:34:27	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13812	No
GOM_TRA_1PNPDE20041021_010620_000000602031_00231_13812_0000.N1	21-OCT-2004 01:06:20	Twilight	59.500	48	30Alp Hya	1.9770	4100.0	119	13812	No
GOM_TRA_1PNPDE20041021_011414_000000452031_00231_13812_0001.N1	21-OCT-2004 01:14:14	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	13812	No
GOM_TRA_1PNPDE20041021_012135_000000632031_00232_13813_0002.N1	21-OCT-2004 01:21:35	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	13813	No
GOM_TRA_1PNPDE20041021_012443_000000512031_00232_13813_0003.N1	21-OCT-2004 01:24:43	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	13813	No
GOM_TRA_1PNPDE20041021_012906_000002202031_00232_13813_0004.N1	21-OCT-2004 01:29:06	Dark	220.00	1	9Alp CMa	-1.4400	11000.	440	13813	No
GOM_TRA_1PNPDE20041021_013601_000000502031_00232_13813_0005.N1	21-OCT-2004 01:36:01	Dark	49.500	157	The1Eri	2.9060	9300.0	99	13813	No
GOM_TRA_1PNPDE20041021_013807_000000432031_00232_13813_0006.N1	21-OCT-2004 01:38:07	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	13813	No
GOM_TRA_1PNPDE20041021_014437_000000482031_00232_13813_0007.N1	21-OCT-2004 01:44:37	Bright	48.000	52	16Bet Cet	2.0370	4500.0	96	13813	No
GOM_TRA_1PNPDE20041021_015409_000000412031_00232_13813_0008.N1	21-OCT-2004 01:54:09	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13813	No
GOM_TRA_1PNPDE20041021_015634_000000462031_00232_13813_0009.N1	21-OCT-2004 01:56:34	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	13813	No
GOM_TRA_1PNPDE20041021_015833_000000422031_00232_13813_0010.N1	21-OCT-2004 01:58:33	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13813	No
GOM_TRA_1PNPDE20041021_020011_000000452031_00232_13813_0011.N1	21-OCT-2004 02:00:11	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13813	No
GOM_TRA_1PNPDE20041021_020321_000000442031_00232_13813_0012.N1	21-OCT-2004 02:03:21	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13813	No
GOM_TRA_1PNPDE20041021_021822_000000422031_00232_13813_0000.N1	21-OCT-2004 02:18:22	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	13813	No
GOM_TRA_1PNPDE20041021_022321_000000392031_00232_13813_0001.N1	21-OCT-2004 02:23:21	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13813	No
GOM_TRA_1PNPDE20041021_022455_000000402031_00232_13813_0002.N1	21-OCT-2004 02:24:55	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	13813	No
GOM_TRA_1PNPDE20041021_022824_000000382031_00232_13813_0003.N1	21-OCT-2004 02:28:24	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13813	No
GOM_TRA_1PNPDE20041021_023656_000001462031_00232_13813_0004.N1	21-OCT-2004 02:36:56	Twilight	146.00	17	78Bet Gem	1.1610	4500.0	292	13813	No
GOM_TRA_1PNPDE20041021_024657_000000612031_00232_13813_0005.N1	21-OCT-2004 02:46:57	Twilight	60.500	48	30Alp Hya	1.9770	4100.0	121	13813	No
GOM_TRA_1PNPDE20041021_025452_000000452031_00232_13813_0006.N1	21-OCT-2004 02:54:52	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	13813	No
GOM_TRA_1PNPDE20041021_030212_000000602031_00233_13814_0007.N1	21-OCT-2004 03:02:12	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	13814	No
GOM_TRA_1PNPDE20041021_030520_000000502031_00233_13814_0008.N1	21-OCT-2004 03:05:20	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	13814	No
GOM_TRA_1PNPDE20041021_030946_000002202031_00233_13814_0009.N1	21-OCT-2004 03:09:46	Dark	220.00	1	9Alp CMa	-1.4400	11000.	440	13814	No
GOM_TRA_1PNPDE20041021_031639_000000452031_00233_13814_0010.N1	21-OCT-2004 03:16:39	Dark	44.500	157	The1Eri	2.9060	9300.0	89	13814	No
GOM_TRA_1PNPDE20041021_031843_000000432031_00233_13814_0011.N1	21-OCT-2004 03:18:43	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	13814	No
GOM_TRA_1PNPDE20041021_032515_000000482031_00233_13814_0012.N1	21-OCT-2004 03:25:15	Bright	47.500	52	16Bet Cet	2.0370	4500.0	95	13814	No
GOM_TRA_1PNPDE20041021_033447_000000382031_00233_13814_0013.N1	21-OCT-2004 03:34:47	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13814	No
GOM_TRA_1PNPDE20041021_033710_000000452031_00233_13814_0014.N1	21-OCT-2004 03:37:10	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	13814	No
GOM_TRA_1PNPDE20041021_033909_000000402031_00233_13814_0015.N1	21-OCT-2004 03:39:09	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13814	No
GOM_TRA_1PNPDE20041021_034050_000000432031_00233_13814_0016.N1	21-OCT-2004 03:40:50	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13814	No
GOM_TRA_1PNPDE20041021_034356_000000442031_00233_13814_0017.N1	21-OCT-2004 03:43:56	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13814	No
GOM_TRA_1PNPDE20041021_034631_000000392031_00233_13814_0018.N1	21-OCT-2004 03:46:31	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13814	No
GOM_TRA_1PNPDE20041021_034750_000000382031_00233_13814_0019.N1	21-OCT-2004 03:47:50	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	13814	No
GOM_TRA_1PNPDE20041021_035001_000000392031_00233_13814_0020.N1	21-OCT-2004 03:50:01	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13814	No
GOM_TRA_1PNPDE20041021_035542_000000402031_00233_13814_0021.N1	21-OCT-2004 03:55:42	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13814	No
GOM_TRA_1PNPDE20041021_035901_000000402031_00233_13814_0000.N1	21-OCT-2004 03:59:01	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13814	No
GOM_TRA_1PNPDE20041021_040357_000000432031_00233_13814_0001.N1	21-OCT-2004 04:03:57	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	13814	No
GOM_TRA_1PNPDE20041021_040531_000000382031_00233_13814_0002.N1	21-OCT-2004 04:05:31	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13814	No
GOM_TRA_1PNPDE20041021_040900_000000392031_00233_13814_0003.N1	21-OCT-2004 04:09:00	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13814	No

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



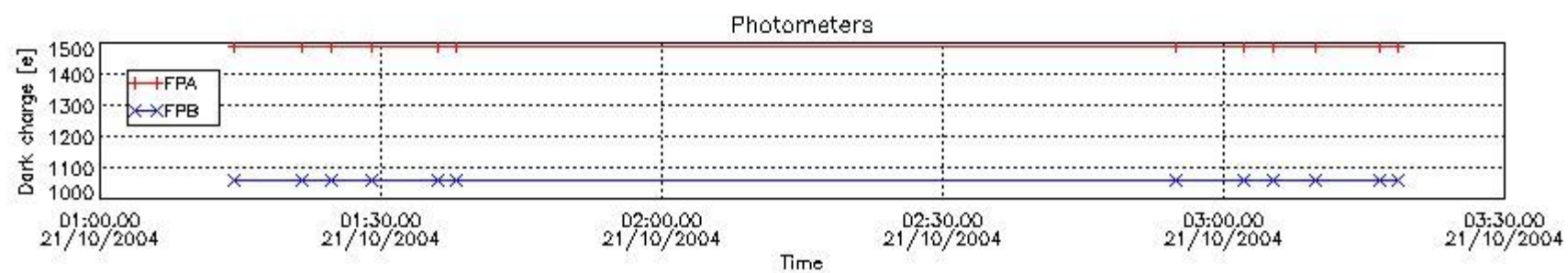
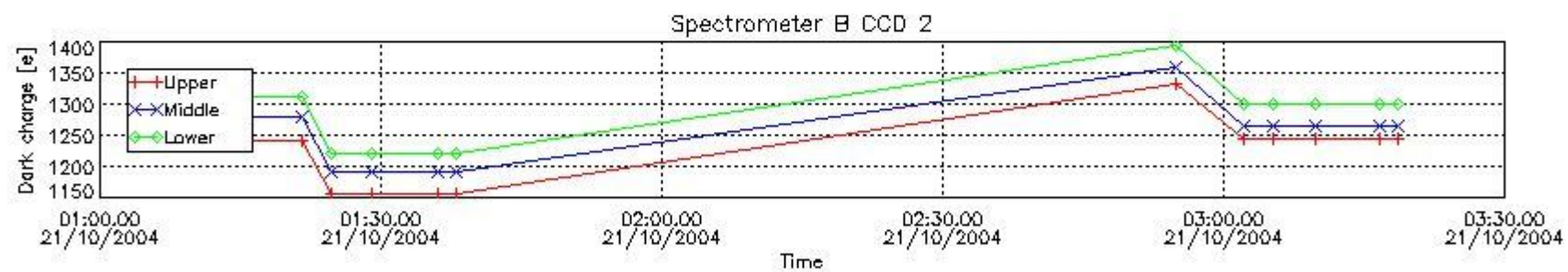
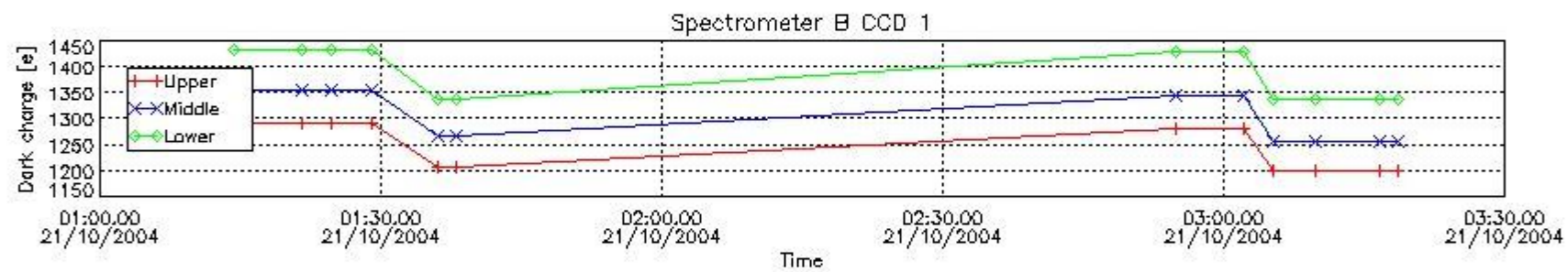
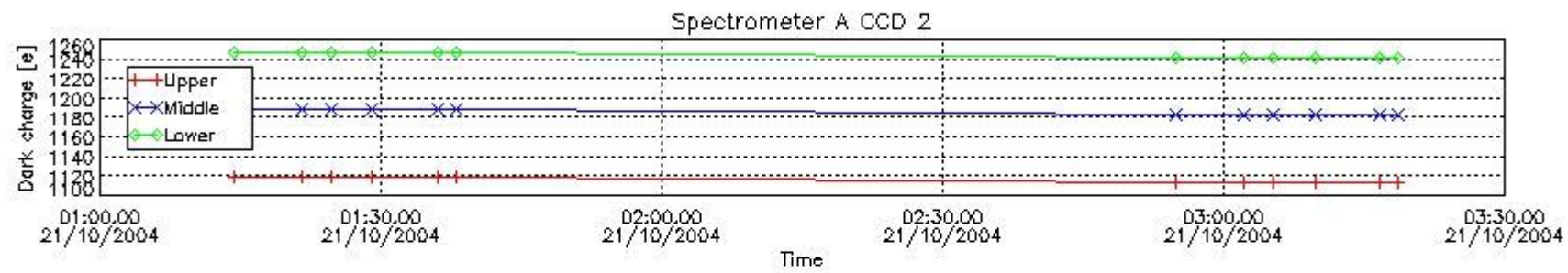
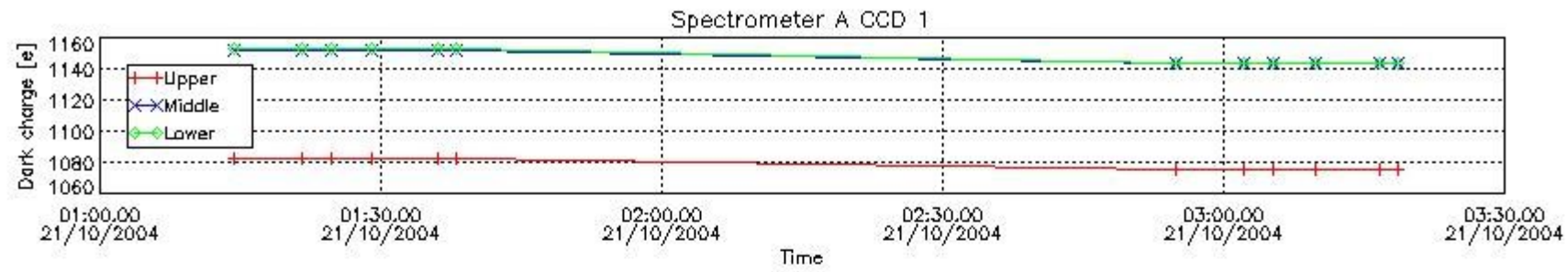
### 4. Overview of dark signal processing per product

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

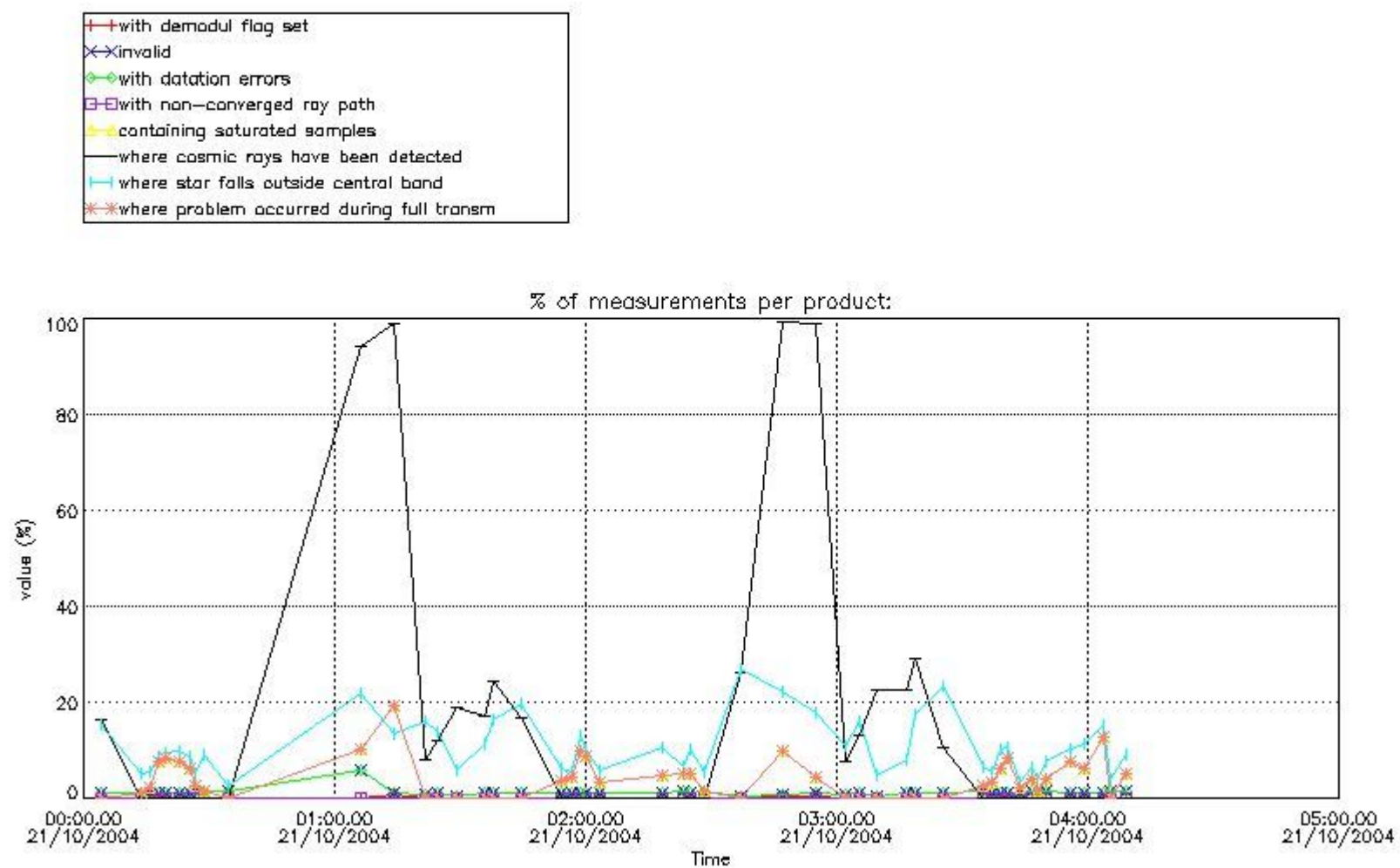
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

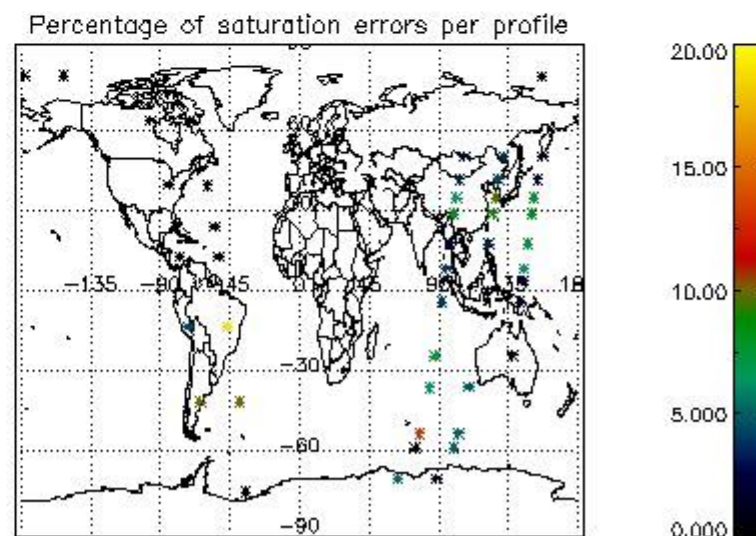
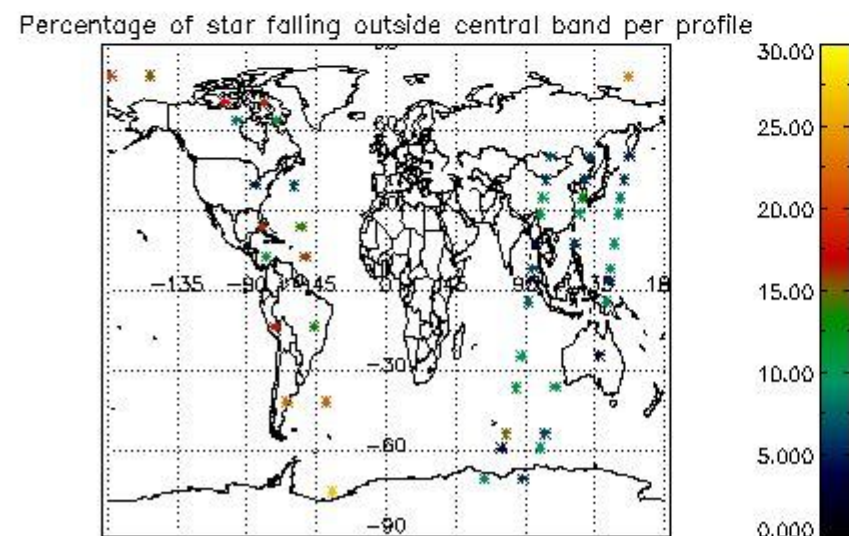
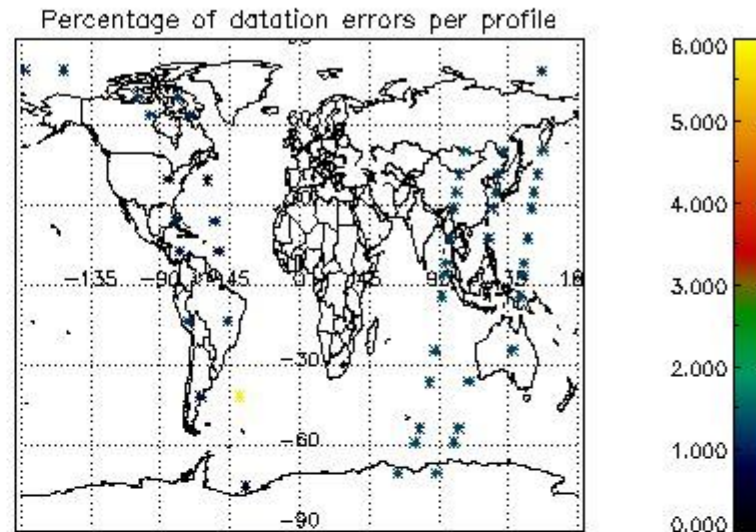
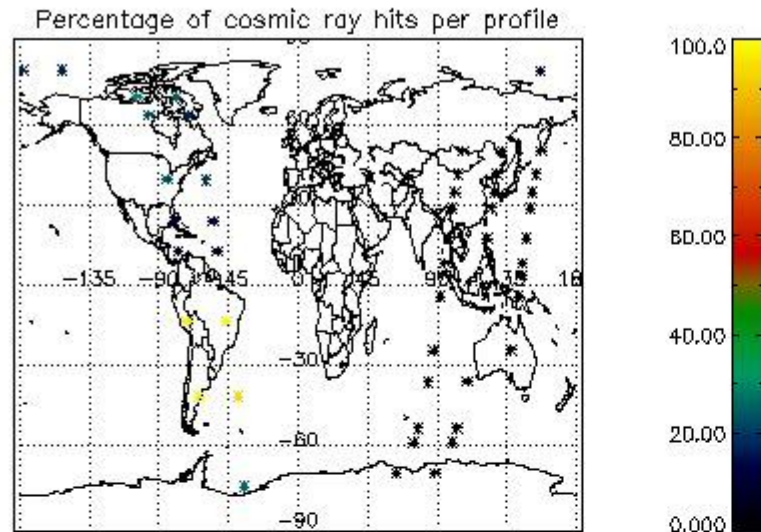


At least one measurement with demodulation flag set:	14.2857 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



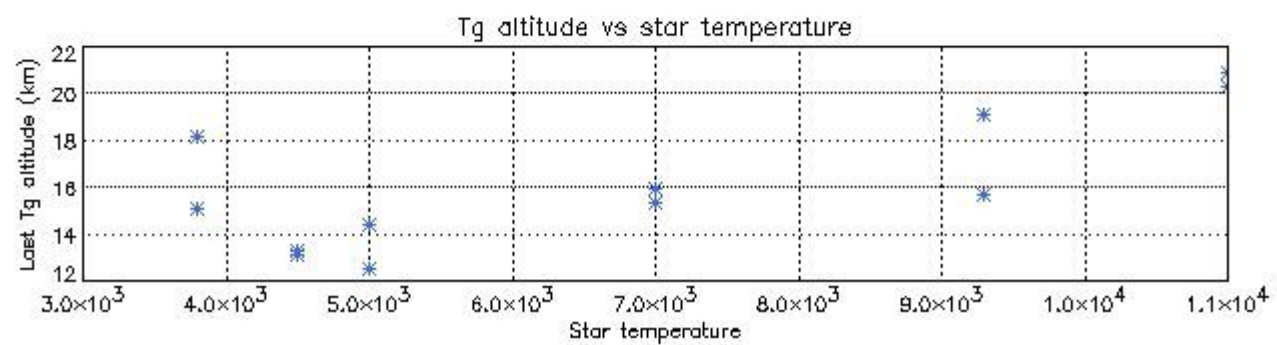
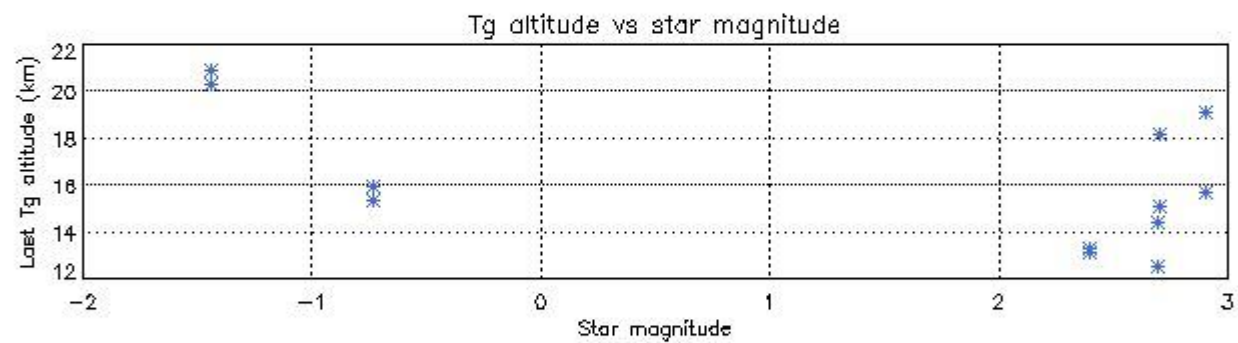
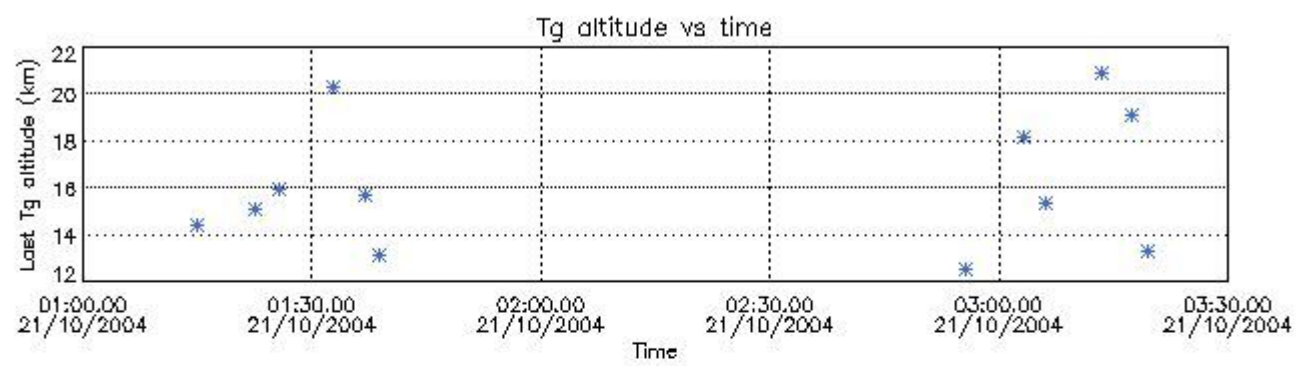
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.150	19.057	9.9121
St. deviation:	2.8411	3.2036	0.94453
Maximum:	20.897	25.070	10.713
Minimum:	12.504	9.9496	8.8704
Number of data:	12.000	34.000	3.0000

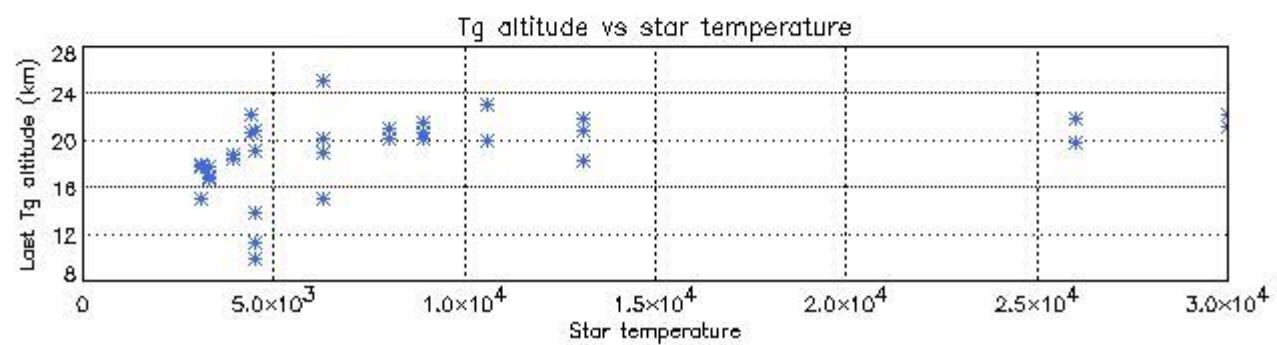
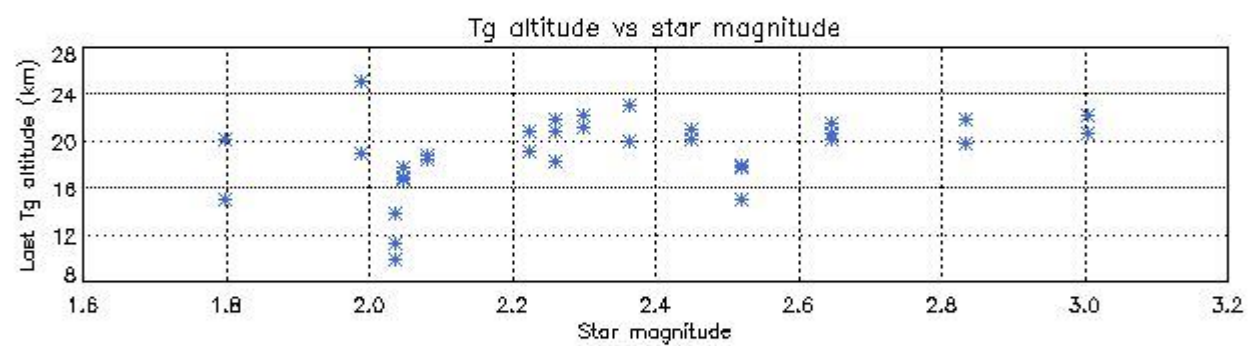
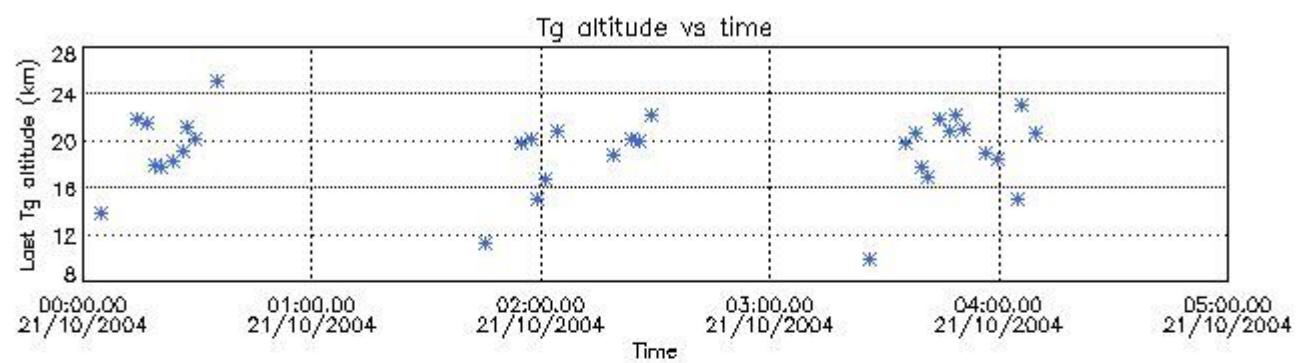
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

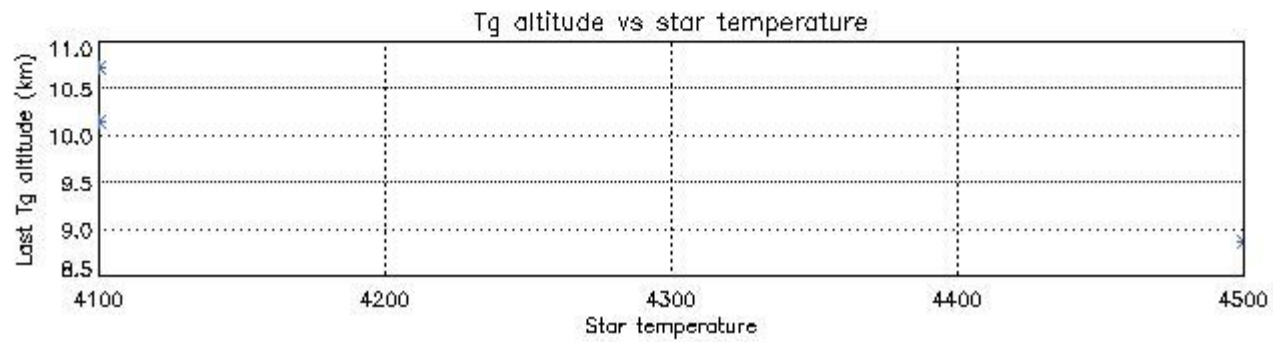
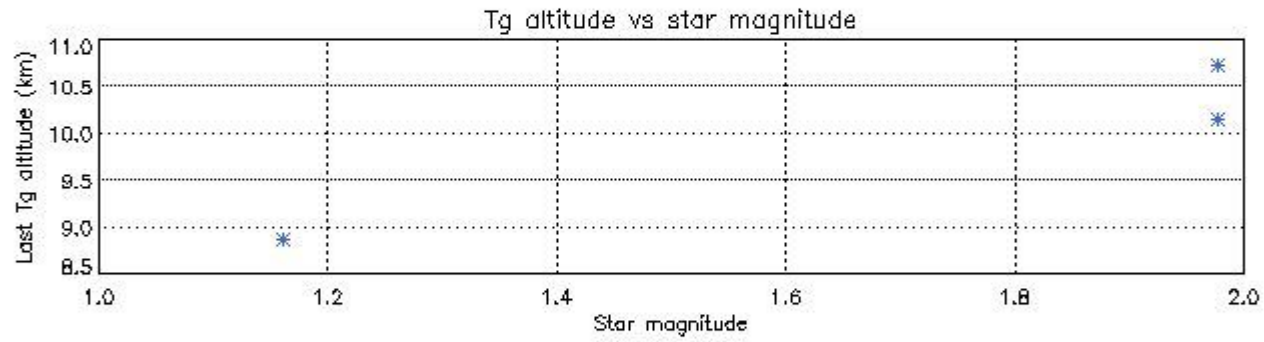
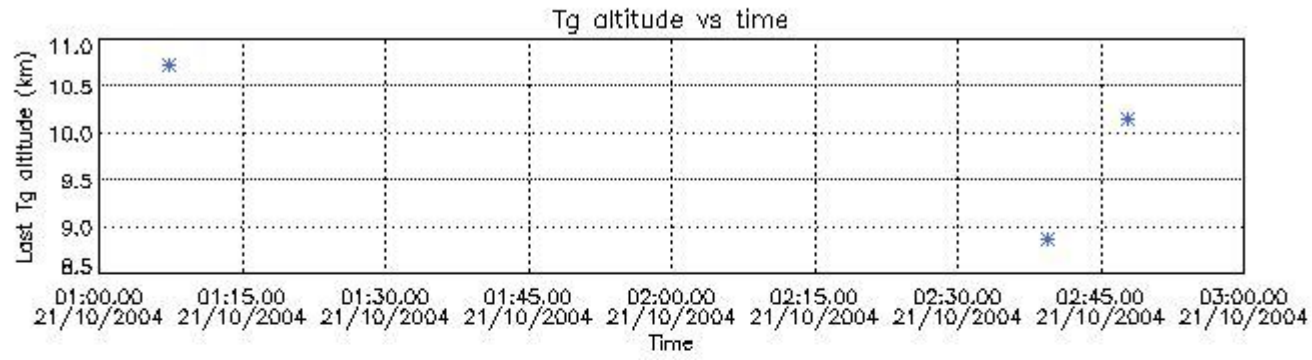
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



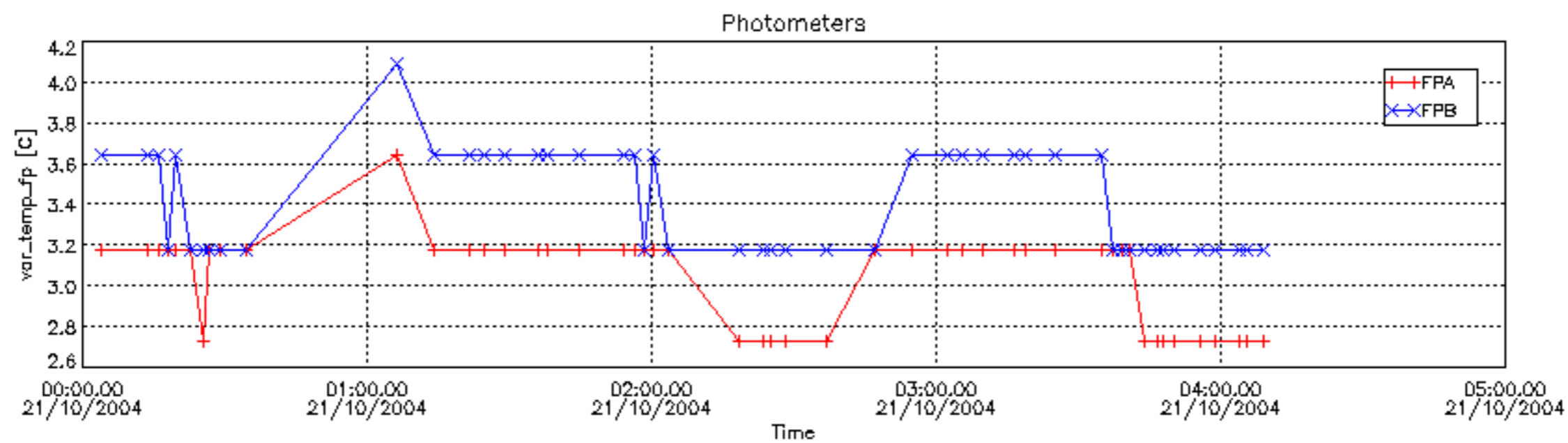
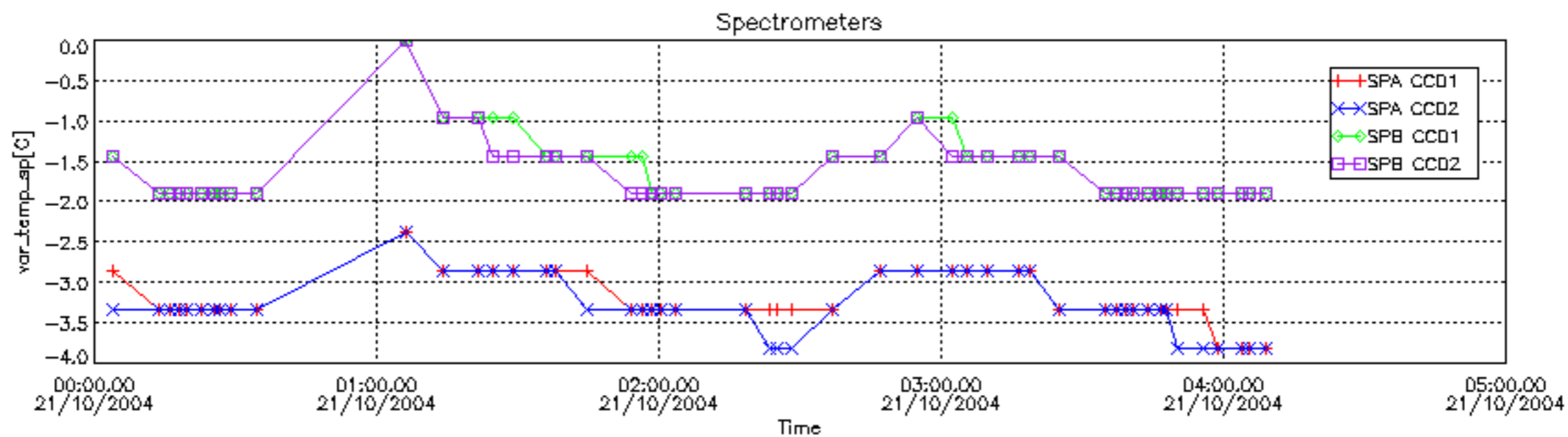
## Tangent altitude at which the star is lost

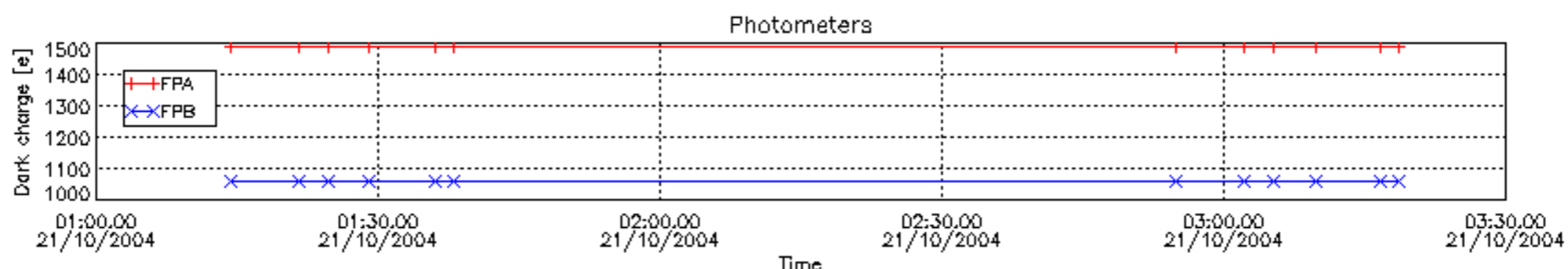
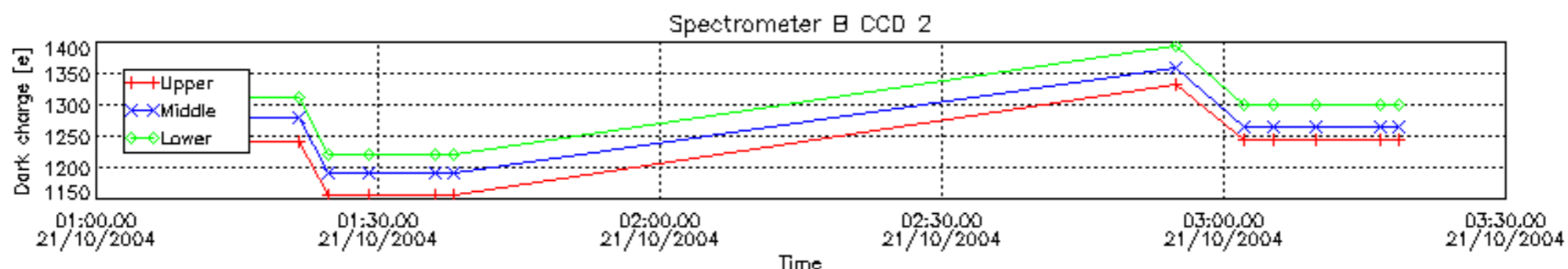
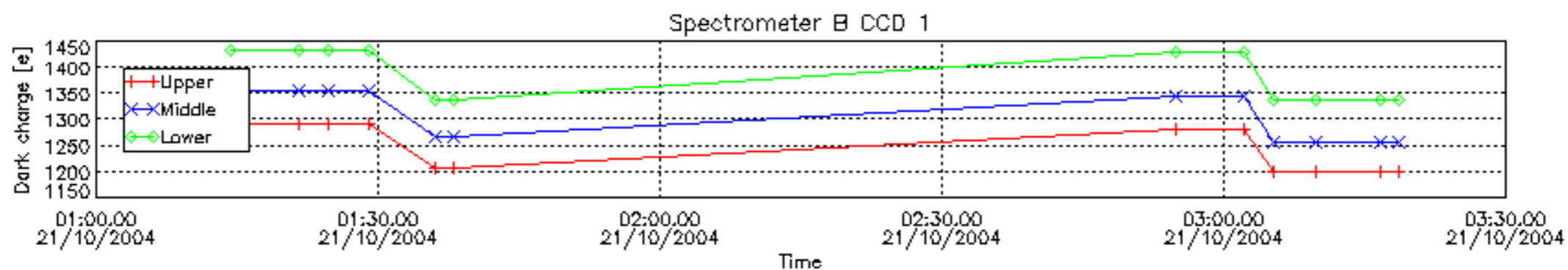
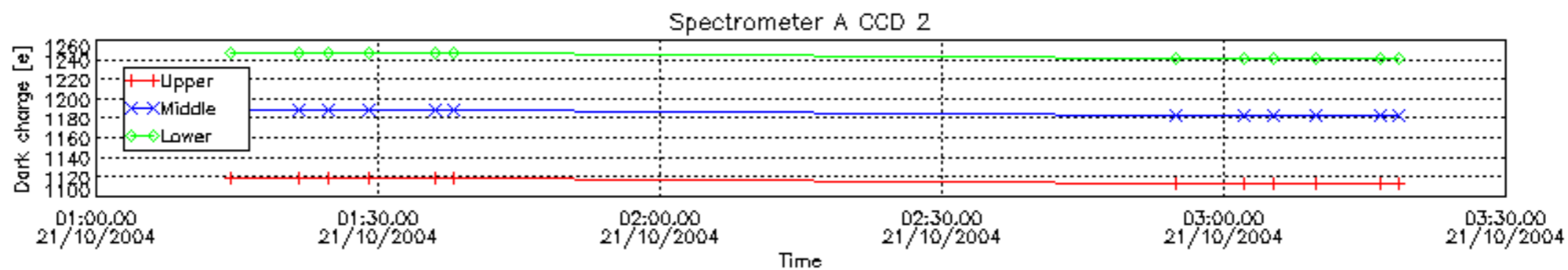
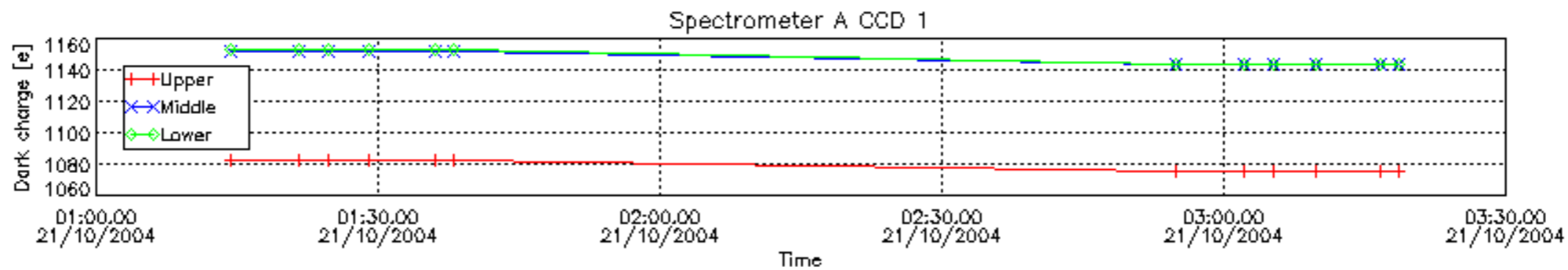


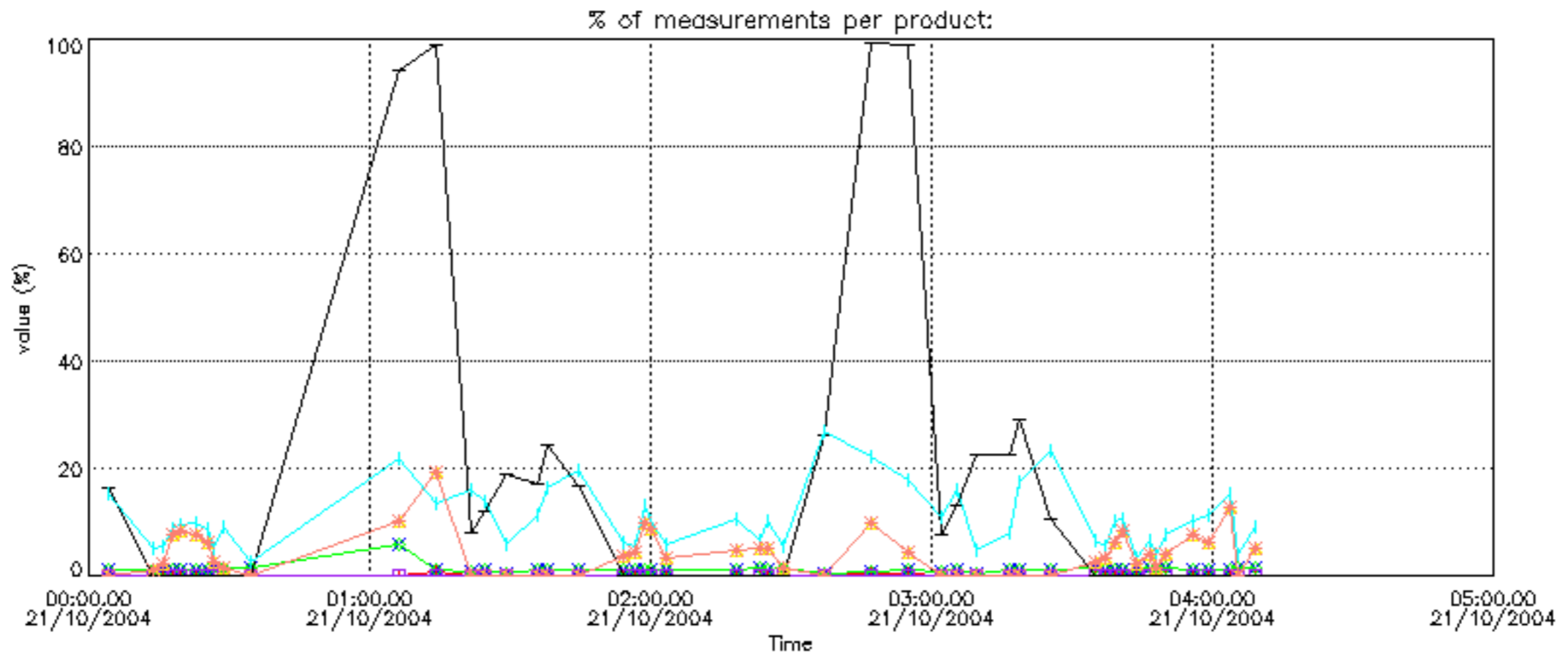
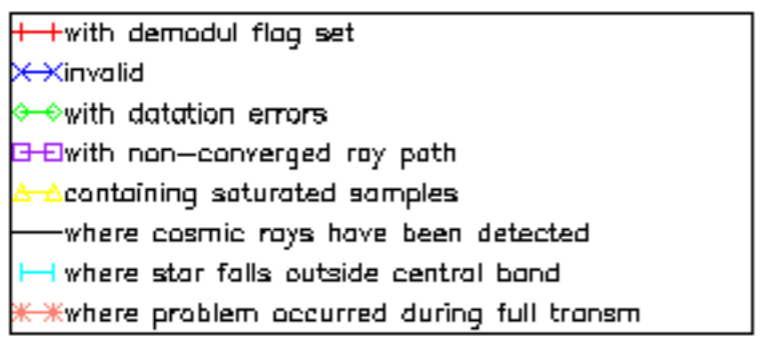
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.2	1448.8	1461.0	1446.6
St. deviation:	4.3606	5.4181	6.1115	7.2236
Maximum:	1600.0	1588.0	1510.0	1504.0
Minimum:	1447.0	1438.0	1434.0	1423.0
Number of data:	22700.	22700.	38250.	38250.

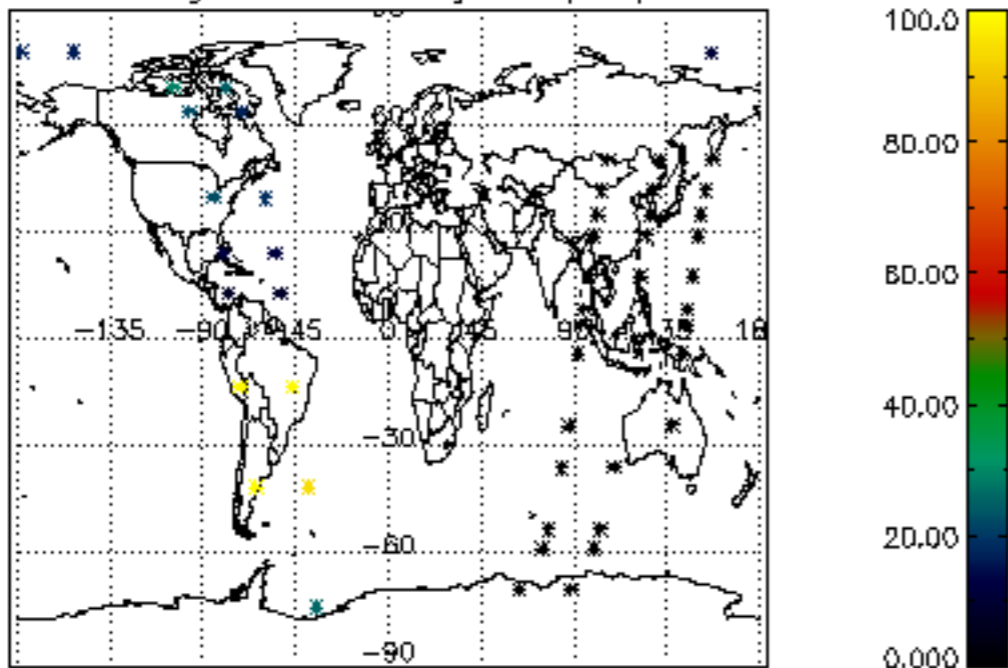




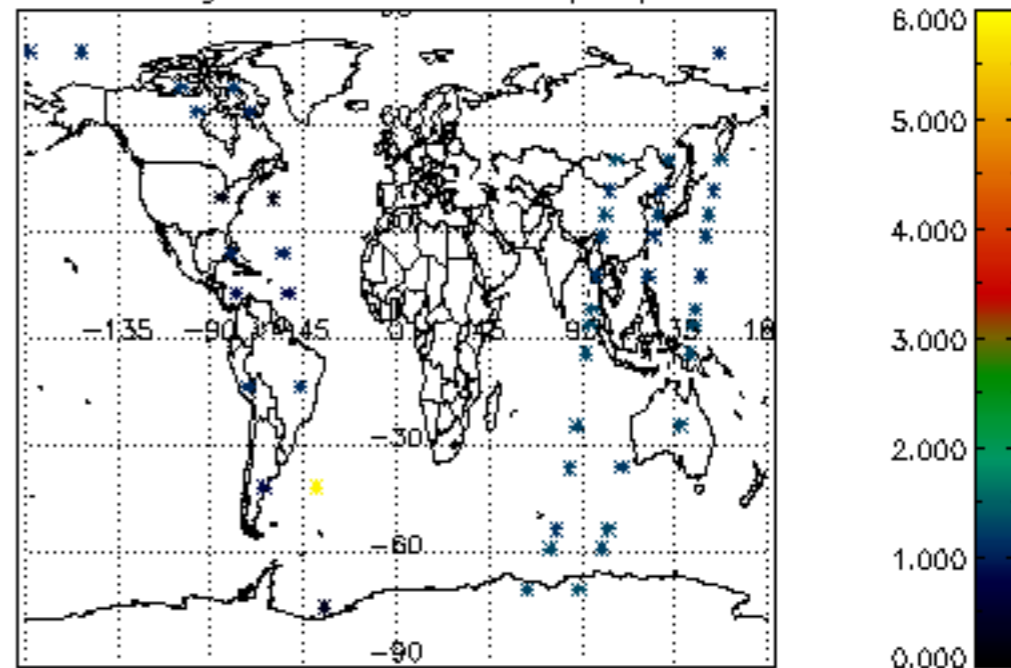




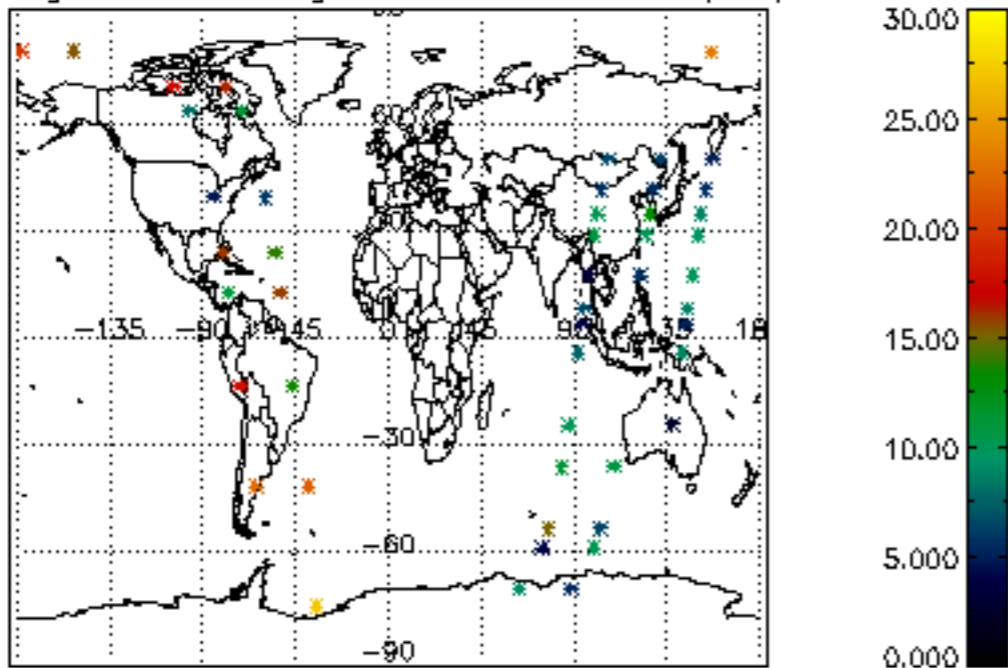
Percentage of cosmic ray hits per profile



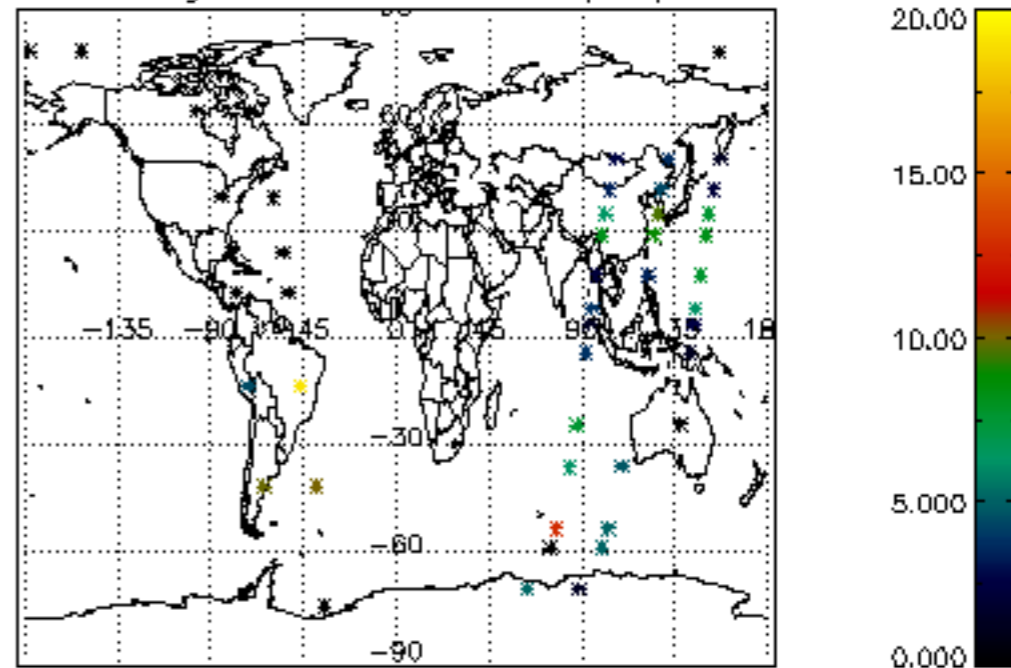
Percentage of datation errors per profile



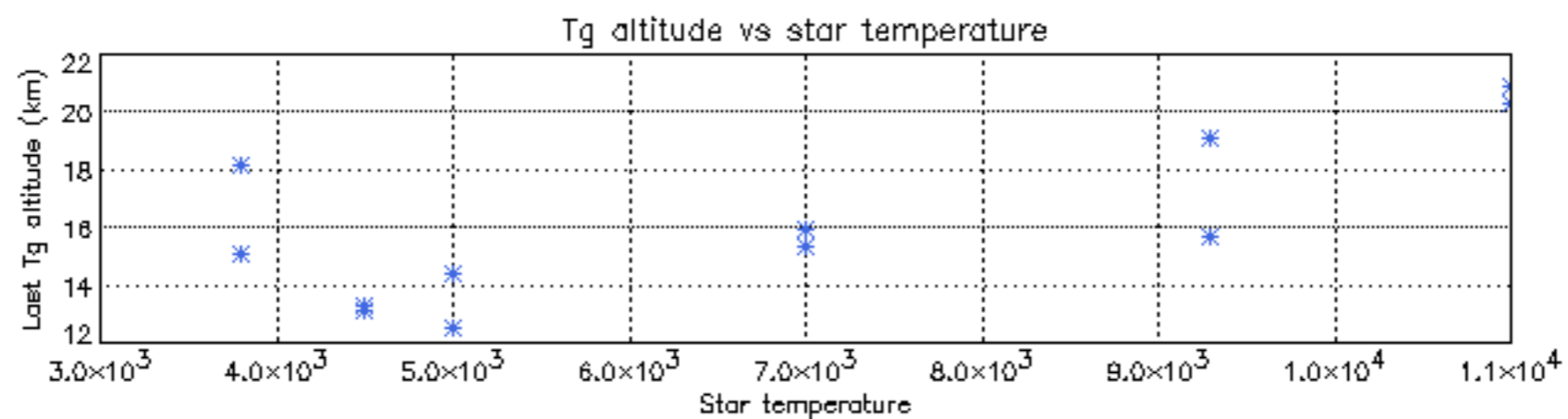
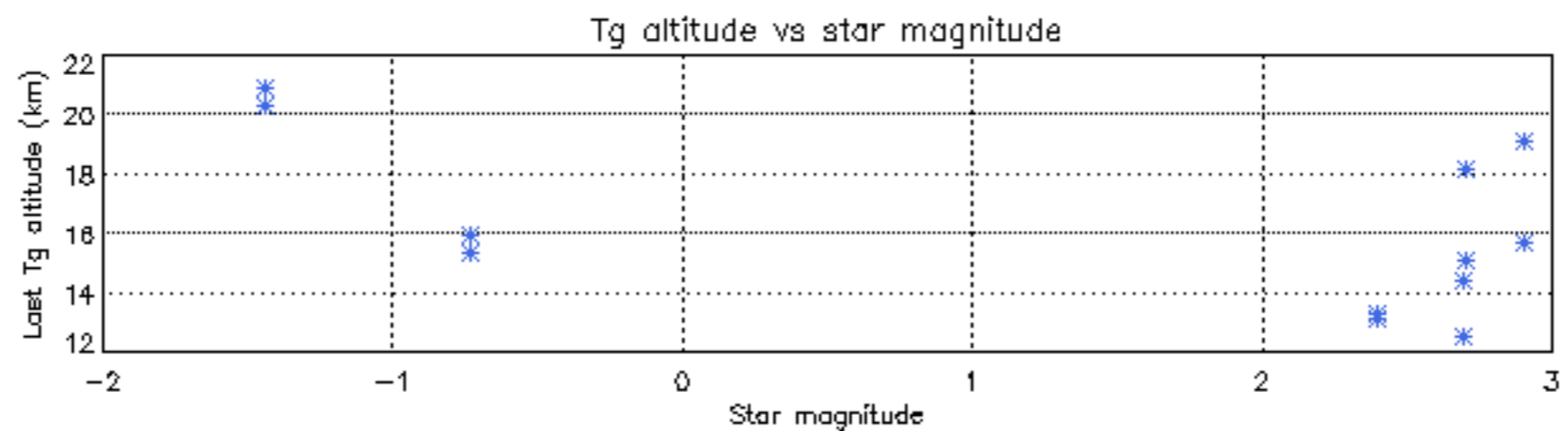
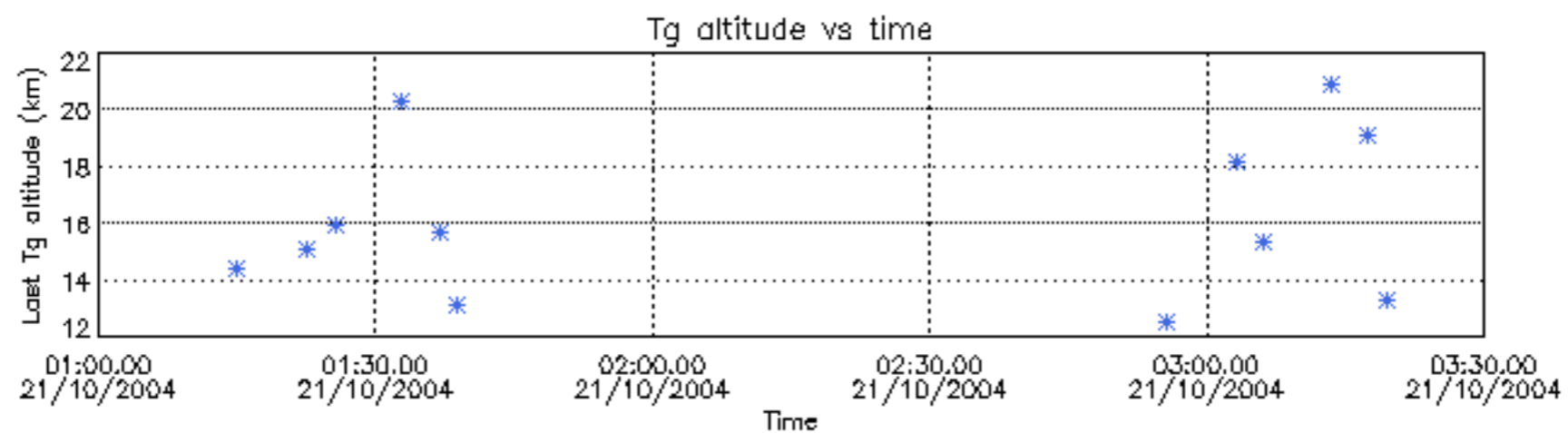
Percentage of star falling outside central band per profile



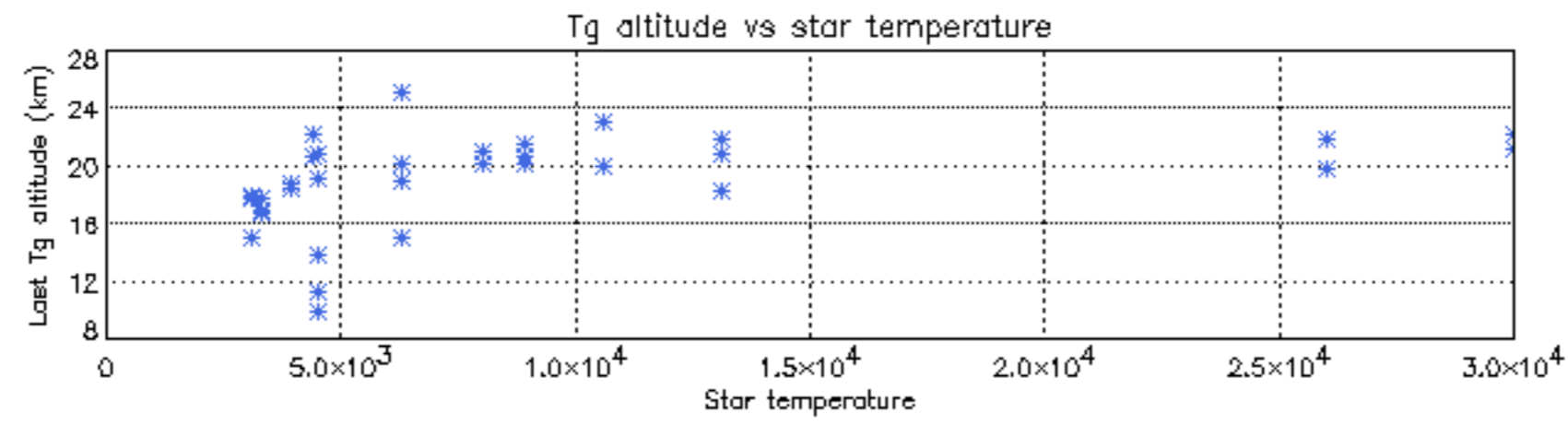
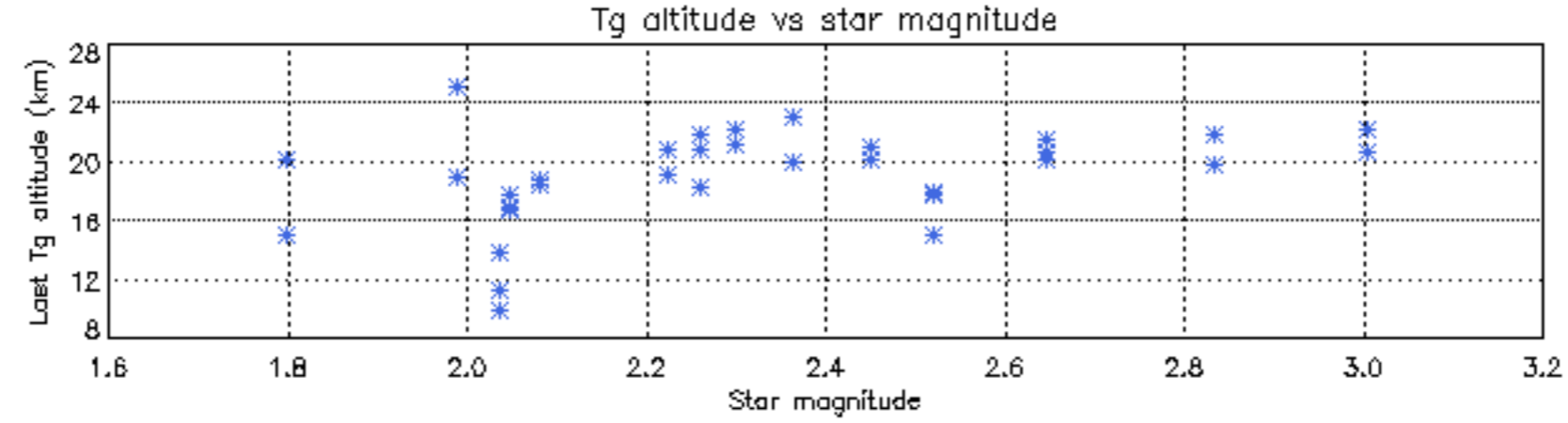
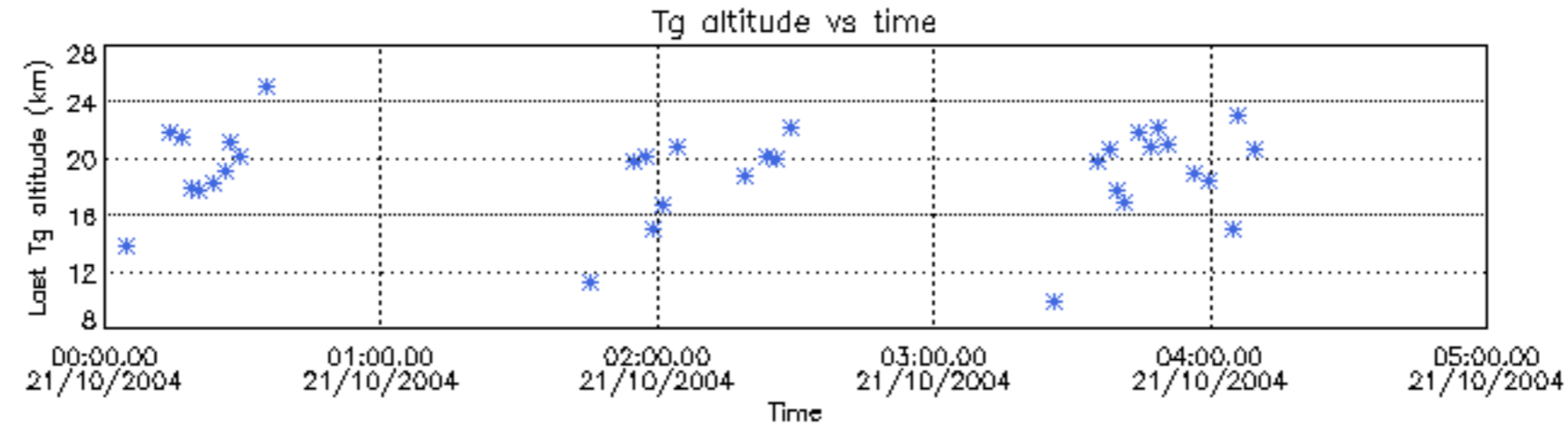
Percentage of saturation errors per profile



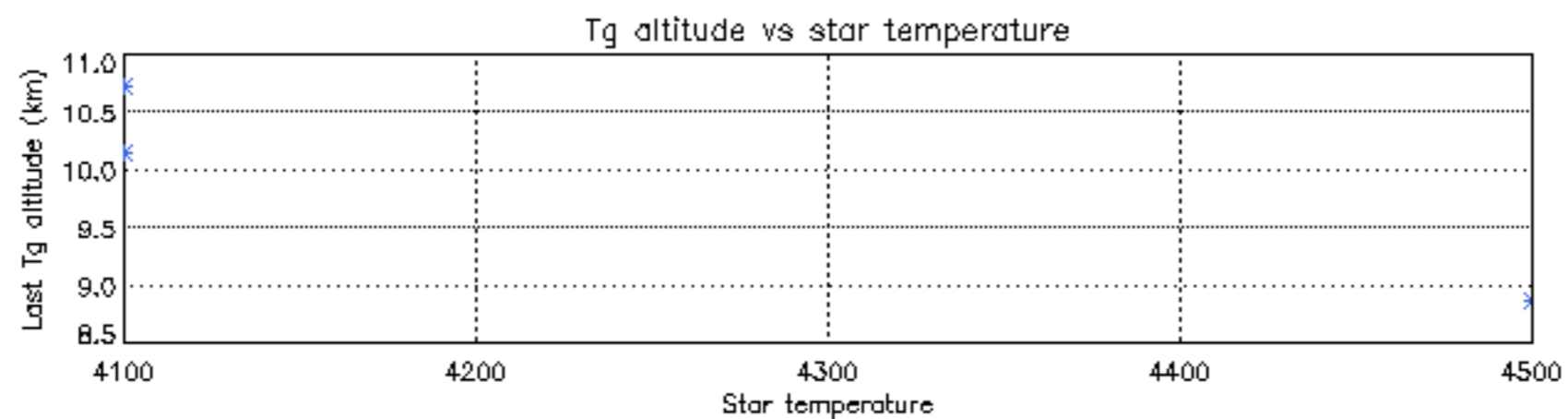
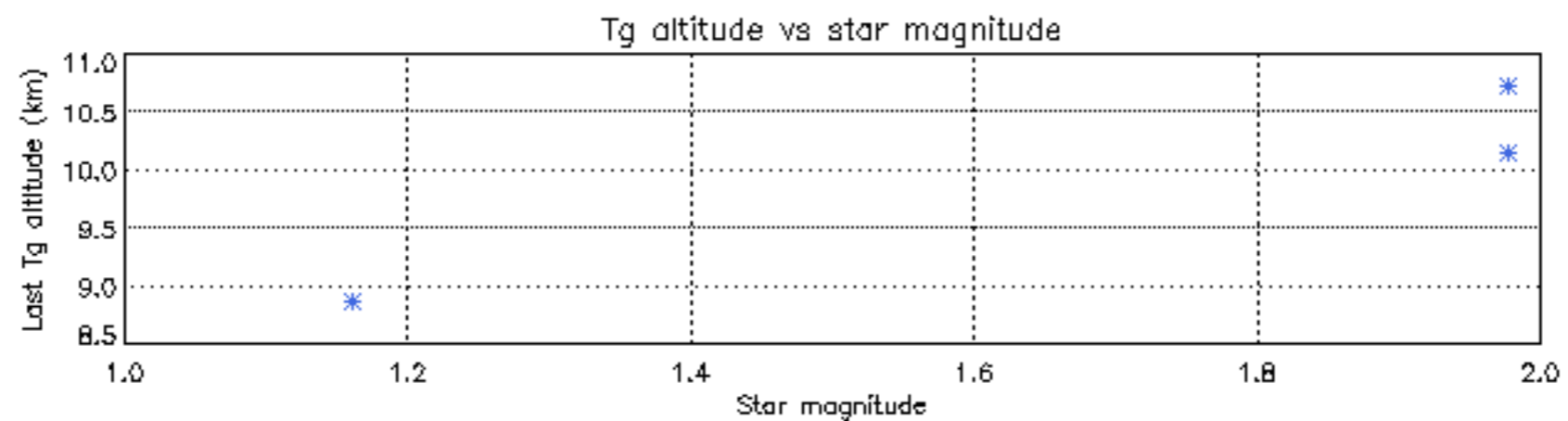
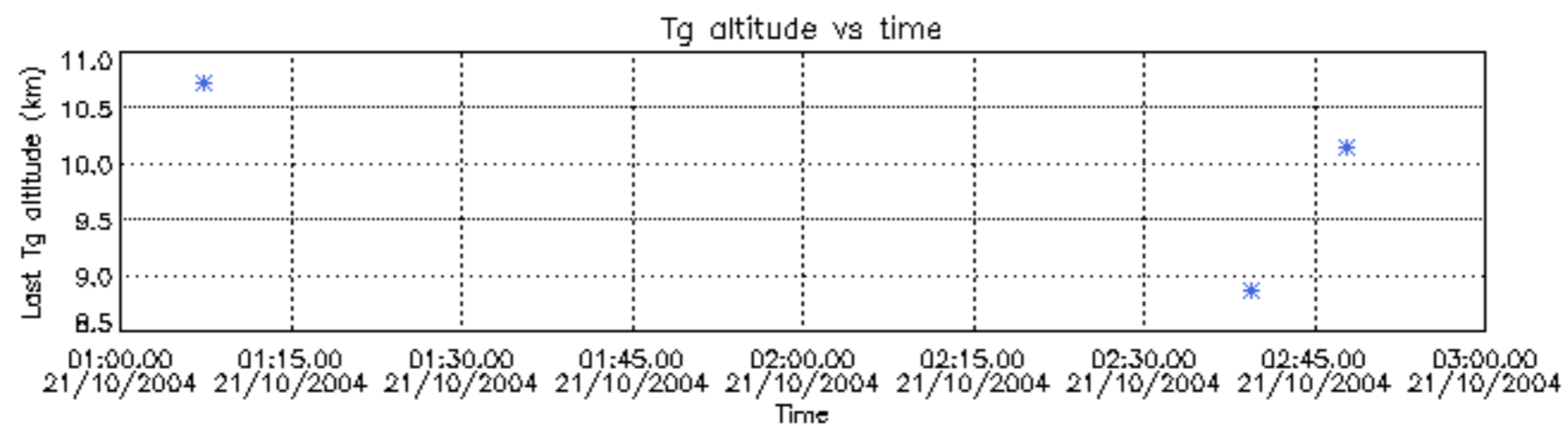
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526  
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 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527  
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527  
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527  
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527  
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 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527  
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 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527  
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 9; -447.3; 01-OCT-2004 03:19:52; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;13527  
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528  
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 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528  
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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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1;	-2127.0;	04-OCT-2004	04:38:14;	Bright;	37.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	75;	0;	13571	
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	
11;	-2473.6;	04-OCT-2004	14:36:03;	Bright;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	13577	
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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1;	-4607.1;	04-OCT-2004	15:41:06;	Dark	;	47.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	95;	0;	13578
2;	-4473.0;	04-OCT-2004	15:43:20;	Dark	;	50.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	100;	0;	13578
3;	-4271.6;	04-OCT-2004	15:46:41;	Bright;	217.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	434;	0;	13578	



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4;-3866.2; 04-OCT-2004 15:53:27; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13578
5;-3649.7; 04-OCT-2004 15:57:03; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13578
6;-3414.3; 04-OCT-2004 16:00:59; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;13578
7;-3242.6; 04-OCT-2004 16:03:50; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13578
8;-3111.9; 04-OCT-2004 16:06:01; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13578
9;-3026.5; 04-OCT-2004 16:07:26; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13578
10;-2820.6; 04-OCT-2004 16:10:52; Bright; 49.5; 160; 23Gam Per ; 2.93; 4700;occ; 99; 0;13578
11;-2610.0; 04-OCT-2004 16:14:23; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13578
12;-2471.6; 04-OCT-2004 16:16:41; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13578
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
20; -646.9; 04-OCT-2004 16:47:06; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13578
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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1; 3.7; 04-OCT-2004 18:38:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 2;13580
2; 213.8; 04-OCT-2004 18:42:03; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13580
3; 391.9; 04-OCT-2004 18:45:01; Dark ; 66.5; 108; Alp Col ; 2.65; 15200;occ; 133; 0;13580
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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1;-4881.0; 04-OCT-2004 18:57:44; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;13580
2;-4607.4; 04-OCT-2004 19:02:18; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;13580
3;-4472.7; 04-OCT-2004 19:04:32; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;13580
4;-4275.1; 04-OCT-2004 19:07:50; Bright; 216.0; 165; 34Gam Eri ; 2.95; 3200;occ; 432; 0;13580
5;-3865.8; 04-OCT-2004 19:14:39; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;13580
6;-3652.4; 04-OCT-2004 19:18:13; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;13580
7;-3415.6; 04-OCT-2004 19:22:09; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13580
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
10;-2610.0; 04-OCT-2004 19:35:35; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13580
11;-2470.6; 04-OCT-2004 19:37:54; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13580
12;-2127.5; 04-OCT-2004 19:43:37; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13580
13;-2035.6; 04-OCT-2004 19:45:09; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;13580
14;-1840.8; 04-OCT-2004 19:48:24; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13580
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
18; -804.9; 04-OCT-2004 20:05:40; Dark ; 93.0; 8; 10Alp CMi ; 0.40; 6500;occ; 186; 0;13580
19; -635.5; 04-OCT-2004 20:08:29; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13580
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
24; 393.4; 04-OCT-2004 20:25:38; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13581
25; 608.9; 04-OCT-2004 20:29:14; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13581
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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1;	-759.6;	05-OCT-2004	01:08:13;	Dark	;	94.0;	8;	10Alp CMI	;	0.40;	6500;occ;	188;	84;	13583
2;	-617.0;	05-OCT-2004	01:10:36;	Dark	;	255.0;	44;	24Gam Gem	;	1.93;	11000;occ;	510;	0;	13583
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
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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	
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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
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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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	
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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	
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21;	-174.0;	05-OCT-2004	09:40:58;	Dark	;	44.5;	70;	Zet Pup	;	2.25;	39000;occ;	89;	0;	13588
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27; 843.0; 05-OCT-2004 09:57:55; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;13589
28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
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19;	-762.2;	15-OCT-2004	17:39:50;	Dark	;	59.5;	48;	30Alp Hya	;	1.98;	4100;occ;	119;	0;	13736
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19;	-1205.8;	15-OCT-2004	19:13:02;	Bright	;	57.0;	22;	32Alp Leo	;	1.36;	15200;occ;	114;	0;	13737
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25; 1056.2; 17-OCT-2004 08:43:55; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13760  
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