

# GOMOS Daily Report 06-JUL-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	07JUL2004 09:35:40
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (06JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (07JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

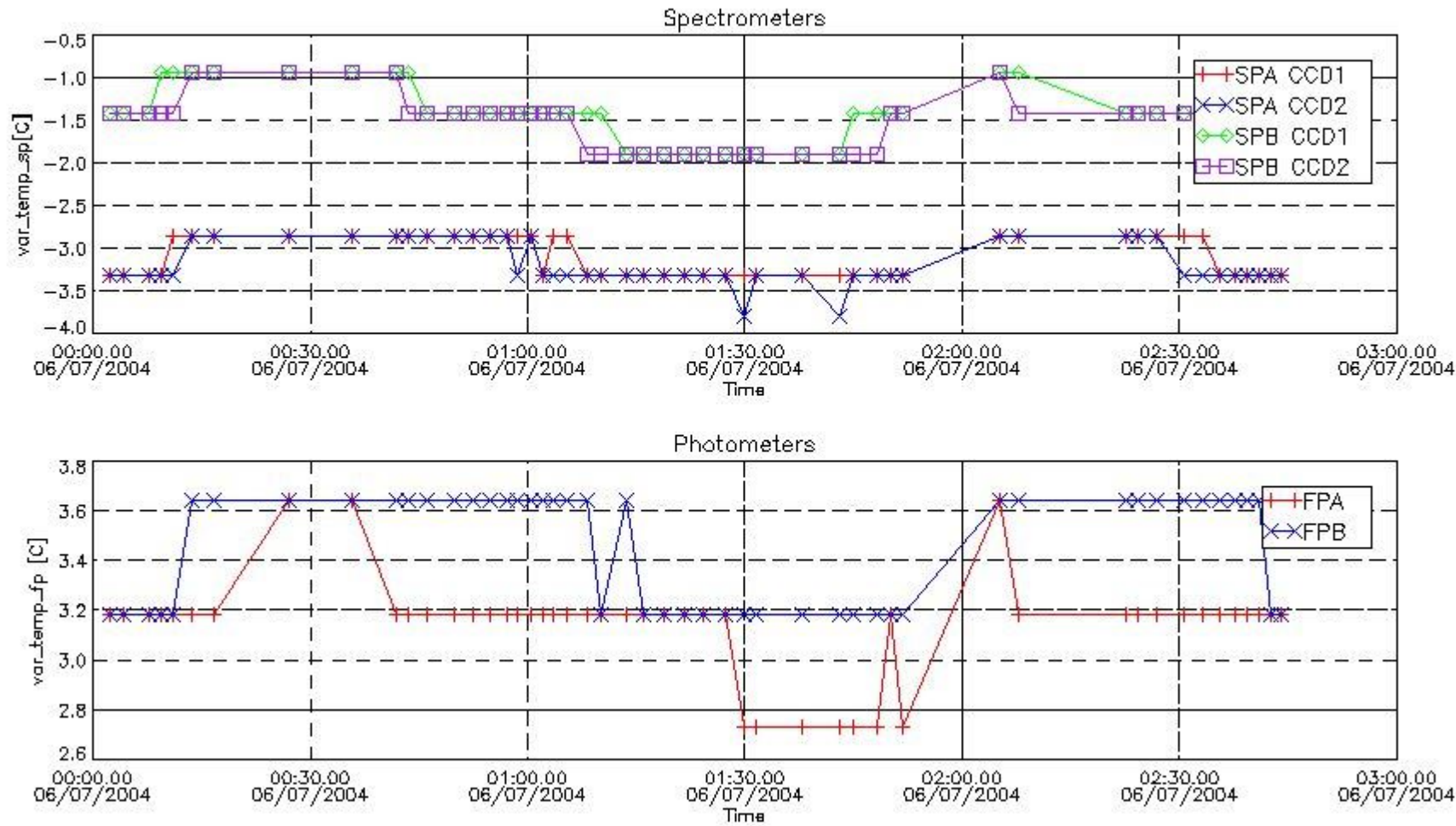
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040706_000226_000000482028_00202_12280_0023.N1	06-JUL-2004 00:02:26	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	12280	No
GOM_TRA_1PNPDE20040706_000416_000000432028_00202_12280_0024.N1	06-JUL-2004 00:04:16	Bright	43.000	110	37Del Cas	2.6780	8900.0	86	12280	No
GOM_TRA_1PNPDE20040706_000739_000000392028_00202_12280_0025.N1	06-JUL-2004 00:07:39	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	12280	No
GOM_TRA_1PNPDE20040706_000927_000000462028_00202_12280_0026.N1	06-JUL-2004 00:09:27	Twilight	46.000	175	39Del Per	3.0100	19400.	92	12280	No
GOM_TRA_1PNPDE20040706_001103_000000562028_00202_12280_0027.N1	06-JUL-2004 00:11:03	Twilight	55.500	73	57Gam1And	2.2600	13100.	111	12280	No
GOM_TRA_1PNPDE20040706_001342_000000972028_00202_12280_0028.N1	06-JUL-2004 00:13:42	Twilight	97.000	53	43Bet And	2.0480	3300.0	194	12280	No
GOM_TRA_1PNPDE20040706_001635_000000442028_00202_12280_0029.N1	06-JUL-2004 00:16:35	Twilight	43.500	146	25Eta Tau	2.8730	15200.	87	12280	No
GOM_TRA_1PNPDE20040706_002706_000000422028_00202_12280_0000.N1	06-JUL-2004 00:27:06	Dark	42.000	165	34Gam Eri	2.9500	3200.0	84	12280	Yes
GOM_TRA_1PNPDE20040706_003542_000000422028_00202_12280_0001.N1	06-JUL-2004 00:35:42	Dark	42.000	157	The1Eri	2.9060	9300.0	84	12280	No
GOM_TRA_1PNPDE20040706_004153_000000442028_00203_12281_0002.N1	06-JUL-2004 00:41:53	Dark	43.500	9	Alp Eri	0.45300	24000.	87	12281	No
GOM_TRA_1PNPDE20040706_004336_000000532028_00203_12281_0003.N1	06-JUL-2004 00:43:36	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	12281	No
GOM_TRA_1PNPDE20040706_004611_000000412028_00203_12281_0004.N1	06-JUL-2004 00:46:11	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	12281	No
GOM_TRA_1PNPDE20040706_004956_000000652028_00203_12281_0005.N1	06-JUL-2004 00:49:56	Dark	65.000	63	Bet Gru	2.1500	2800.0	130	12281	No
GOM_TRA_1PNPDE20040706_005227_000000922028_00203_12281_0006.N1	06-JUL-2004 00:52:27	Twilight	91.500	18	24Alp PsA	1.1660	9700.0	183	12281	No
GOM_TRA_1PNPDE20040706_005450_000000592028_00203_12281_0007.N1	06-JUL-2004 00:54:50	Bright	58.500	172	Gam Gru	3.0030	13100.	117	12281	No
GOM_TRA_1PNPDE20040706_005705_000000422028_00203_12281_0008.N1	06-JUL-2004 00:57:05	Bright	41.500	141	Bet Ara	2.8400	4600.0	83	12281	No
GOM_TRA_1PNPDE20040706_005834_000000382028_00203_12281_0009.N1	06-JUL-2004 00:58:34	Bright	38.000	147	Alp Ara	2.8770	26000.	76	12281	No
GOM_TRA_1PNPDE20040706_010023_000000442028_00203_12281_0010.N1	06-JUL-2004 01:00:23	Bright	44.000	40	The Sco	1.8590	7100.0	88	12281	No
GOM_TRA_1PNPDE20040706_010203_000000412028_00203_12281_0011.N1	06-JUL-2004 01:02:03	Bright	41.000	25	35Lam Sco	1.6200	28000.	82	12281	No
GOM_TRA_1PNPDE20040706_010330_000000462028_00203_12281_0012.N1	06-JUL-2004 01:03:30	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	12281	No
GOM_TRA_1PNPDE20040706_010531_000000442028_00203_12281_0013.N1	06-JUL-2004 01:05:31	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	12281	No
GOM_TRA_1PNPDE20040706_010812_000000402028_00203_12281_0014.N1	06-JUL-2004 01:08:12	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12281	No
GOM_TRA_1PNPDE20040706_011001_000000382028_00203_12281_0015.N1	06-JUL-2004 01:10:01	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12281	No
GOM_TRA_1PNPDE20040706_011339_000000392028_00203_12281_0016.N1	06-JUL-2004 01:13:39	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12281	No
GOM_TRA_1PNPDE20040706_011557_000000392028_00203_12281_0017.N1	06-JUL-2004 01:15:57	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	12281	No
GOM_TRA_1PNPDE20040706_011854_000000372028_00203_12281_0018.N1	06-JUL-2004 01:18:54	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	12281	No
GOM_TRA_1PNPDE20040706_012133_000000392028_00203_12281_0019.N1	06-JUL-2004 01:21:33	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	12281	No
GOM_TRA_1PNPDE20040706_012416_000000412028_00203_12281_0020.N1	06-JUL-2004 01:24:16	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	12281	No
GOM_TRA_1PNPDE20040706_012717_000000392028_00203_12281_0021.N1	06-JUL-2004 01:27:17	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12281	No
GOM_TRA_1PNPDE20040706_012952_000000382028_00203_12281_0022.N1	06-JUL-2004 01:29:52	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12281	No
GOM_TRA_1PNPDE20040706_013131_000000582028_00203_12281_0023.N1	06-JUL-2004 01:31:31	Bright	58.000	19	50Alp Cyg	1.2460	10500.	116	12281	No
GOM_TRA_1PNPDE20040706_013759_000000382028_00203_12281_0024.N1	06-JUL-2004 01:37:59	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12281	No
GOM_TRA_1PNPDE20040706_014301_000000512028_00203_12281_0025.N1	06-JUL-2004 01:43:01	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	12281	No
GOM_TRA_1PNPDE20040706_014451_000000442028_00203_12281_0026.N1	06-JUL-2004 01:44:51	Bright	43.500	110	37Del Cas	2.6780	8900.0	87	12281	No
GOM_TRA_1PNPDE20040706_014815_000000402028_00203_12281_0027.N1	06-JUL-2004 01:48:15	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	12281	No
GOM_TRA_1PNPDE20040706_015005_000000372028_00203_12281_0028.N1	06-JUL-2004 01:50:05	Twilight	36.500	175	39Del Per	3.0100	19400.	73	12281	No
GOM_TRA_1PNPDE20040706_015139_000000692028_00203_12281_0029.N1	06-JUL-2004 01:51:39	Twilight	69.000	73	57Gam1And	2.2600	13100.	138	12281	No
GOM_TRA_1PNPDE20040706_020513_000000412028_00203_12281_0000.N1	06-JUL-2004 02:05:13	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	12281	Yes
GOM_TRA_1PNPDE20040706_020741_000000432028_00203_12281_0001.N1	06-JUL-2004 02:07:41	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	12281	No
GOM_TRA_1PNPDE20040706_022229_000000542028_00204_12282_0002.N1	06-JUL-2004 02:22:29	Dark	53.500	9	Alp Eri	0.45300	24000.	107	12282	No
GOM_TRA_1PNPDE20040706_022412_000000532028_00204_12282_0003.N1	06-JUL-2004 02:24:12	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	12282	No
GOM_TRA_1PNPDE20040706_022648_000000392028_00204_12282_0004.N1	06-JUL-2004 02:26:48	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12282	No
GOM_TRA_1PNPDE20040706_023033_000000572028_00204_12282_0005.N1	06-JUL-2004 02:30:33	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12282	No
GOM_TRA_1PNPDE20040706_023305_000000902028_00204_12282_0006.N1	06-JUL-2004 02:33:05	Twilight	89.500	18	24Alp PsA	1.1660	9700.0	179	12282	No
GOM_TRA_1PNPDE20040706_023528_000000602028_00204_12282_0007.N1	06-JUL-2004 02:35:28	Bright	59.500	172	Gam Gru	3.0030	13100.	119	12282	No
GOM_TRA_1PNPDE20040706_023741_000000432028_00204_12282_0008.N1	06-JUL-2004 02:37:41	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12282	No
GOM_TRA_1PNPDE20040706_023911_000000422028_00204_12282_0009.N1	06-JUL-2004 02:39:11	Bright	41.500	147	Alp Ara	2.8770	26000.	83	12282	No
GOM_TRA_1PNPDE20040706_024059_000000442028_00204_12282_0010.N1	06-JUL-2004 02:40:59	Bright	44.000	40	The Sco	1.8590	7100.0	88	12282	No
GOM_TRA_1PNPDE20040706_024239_000000422028_00204_12282_0011.N1	06-JUL-2004 02:42:39	Bright	41.500	25	35Lam Sco	1.6200	28000.	83	12282	No

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



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

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

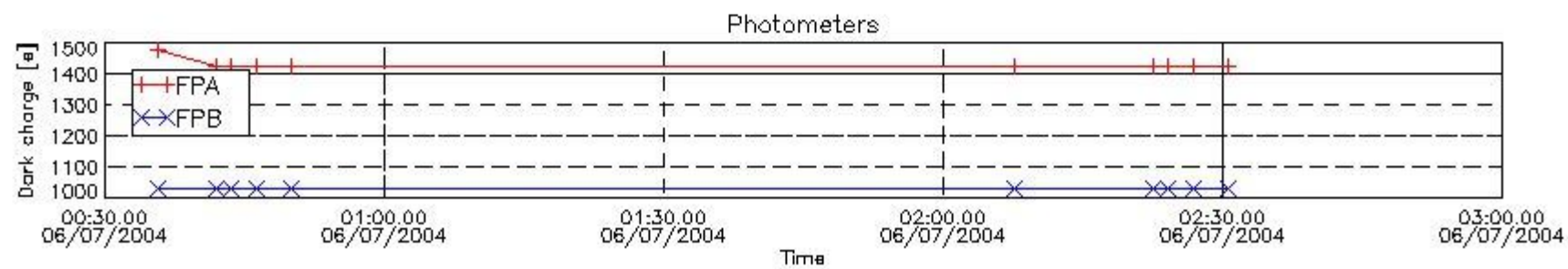
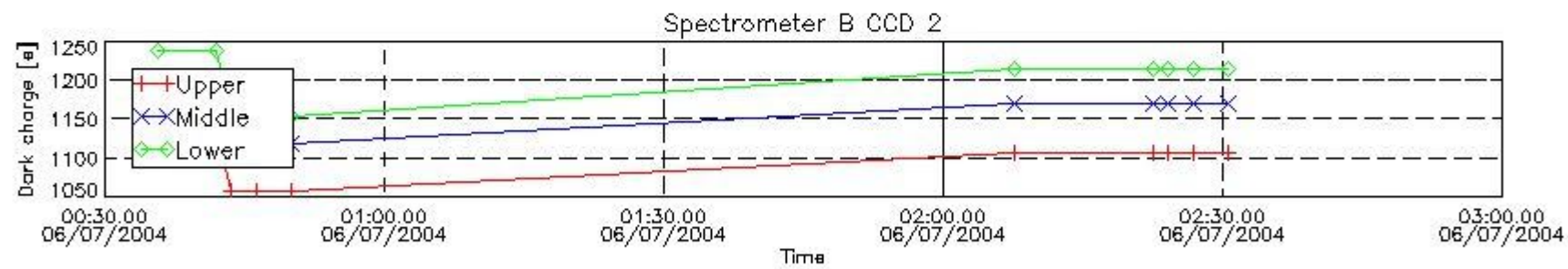
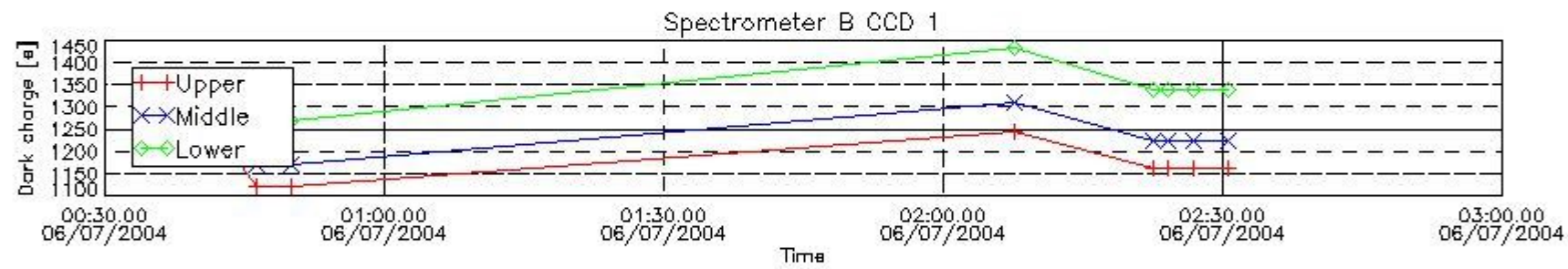
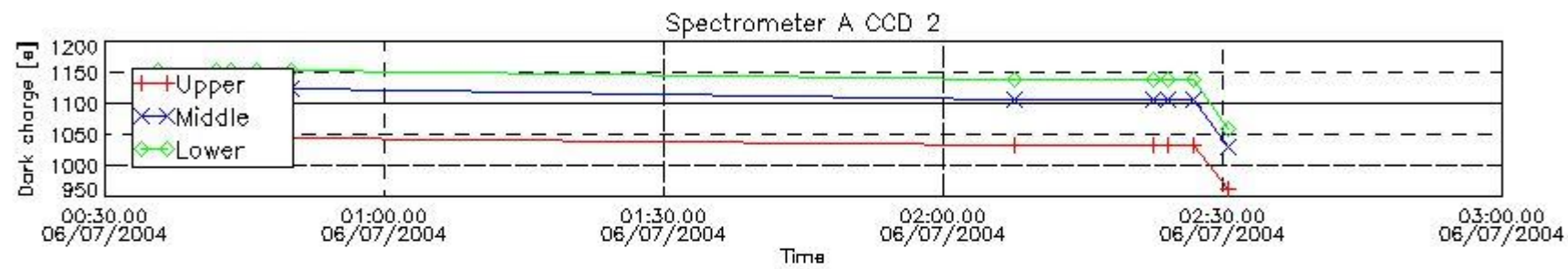
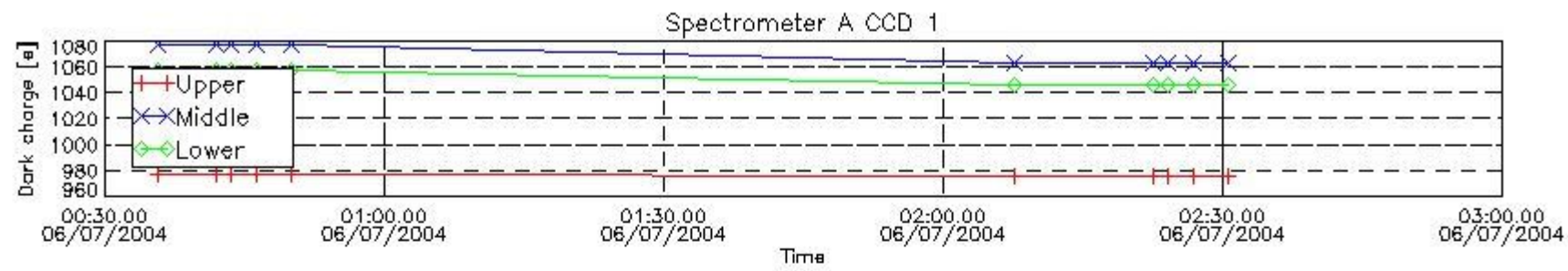
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040706_000226_000000482028_00202_12280_0023.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_000416_000000432028_00202_12280_0024.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_000739_000000392028_00202_12280_0025.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_000927_000000462028_00202_12280_0026.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_001103_000000562028_00202_12280_0027.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_001342_000000972028_00202_12280_0028.N1	DC map used (0)
GOM_TRA_1PNPDE20040706_001635_000000442028_00202_12280_0029.N1	DC map used (0)

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





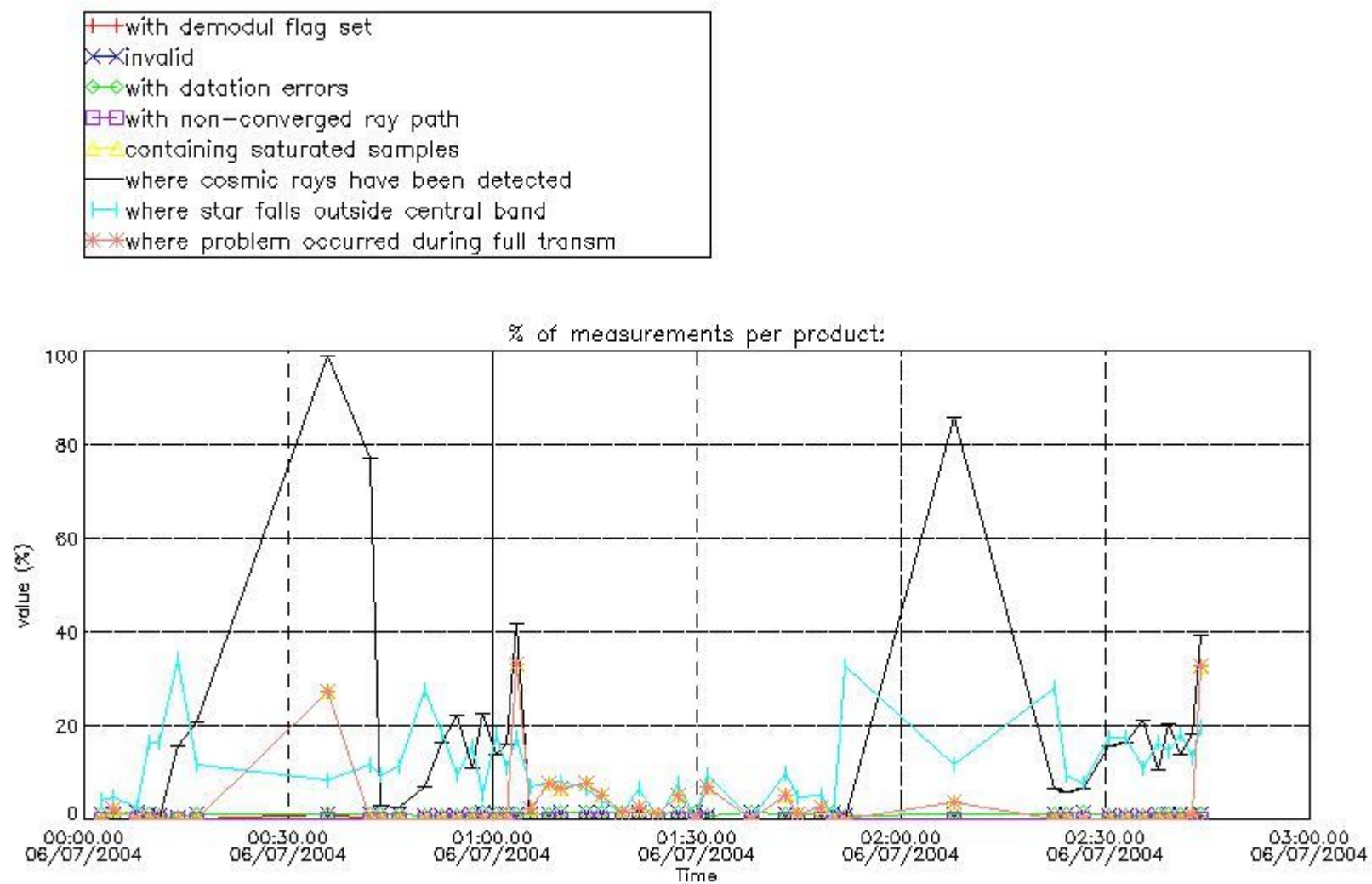
## 5. Demodulation flag and quality information monitoring

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:

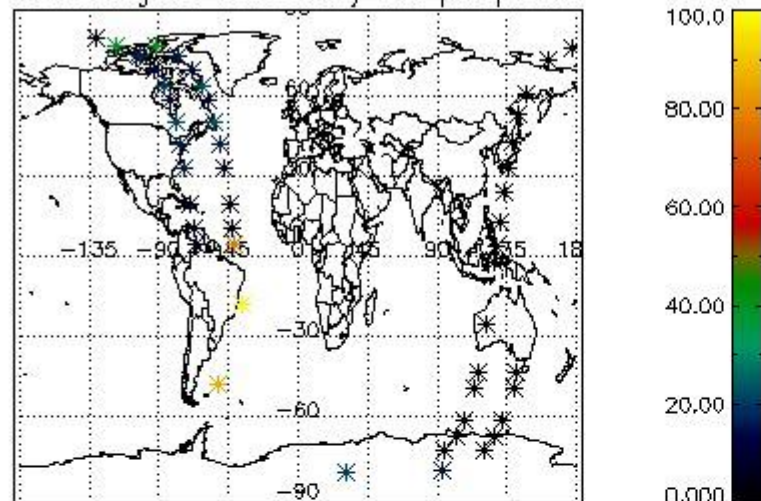
At least one measurement with demodulation flag set:	4.16667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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

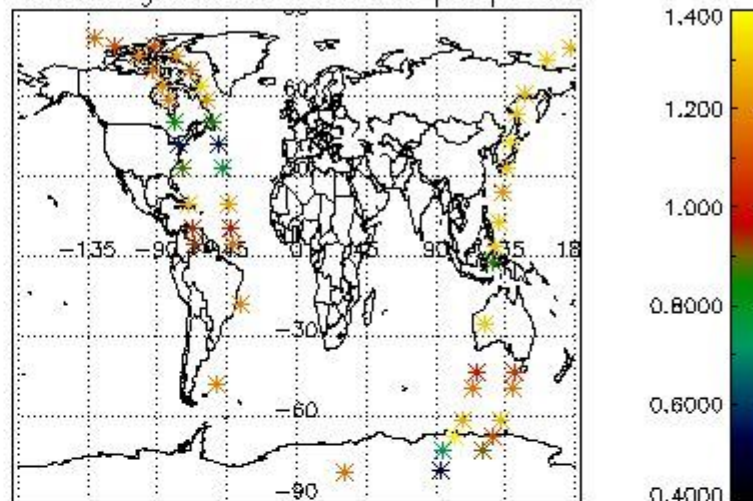


### 5.3 Plot quality information per product (world map)

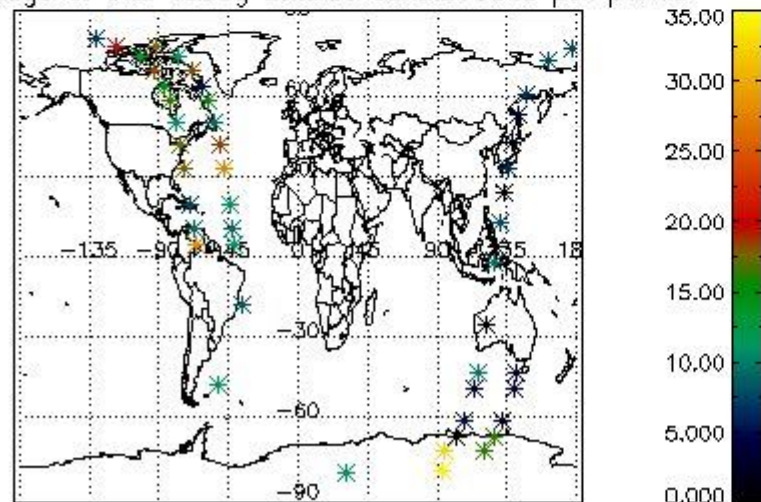
Percentage of cosmic ray hits per profile



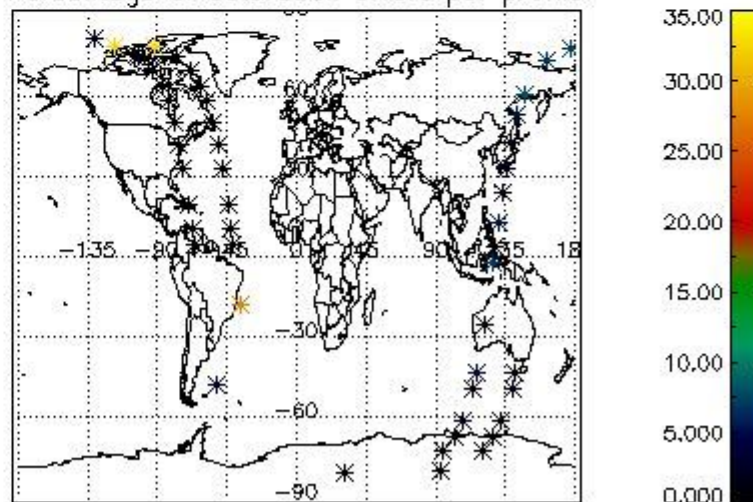
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

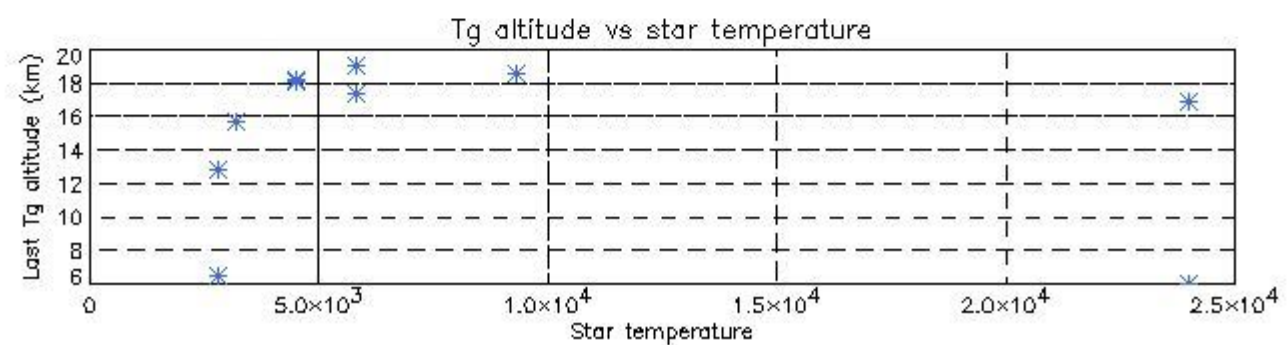
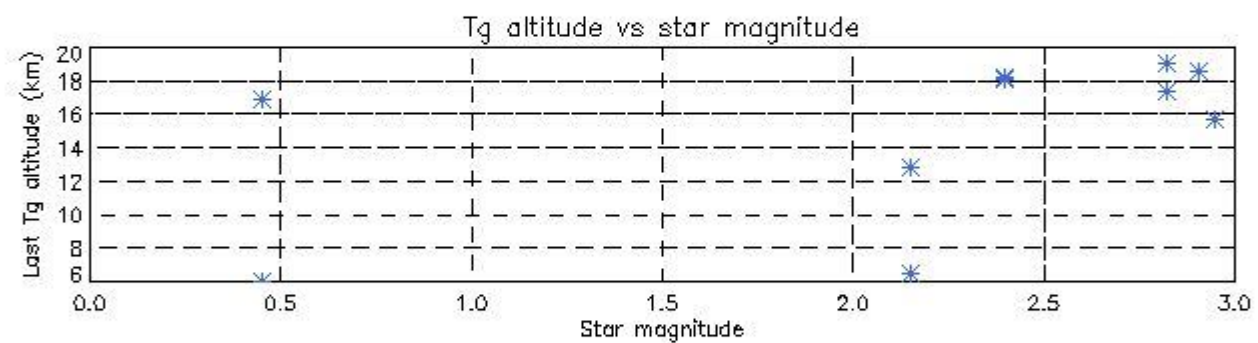
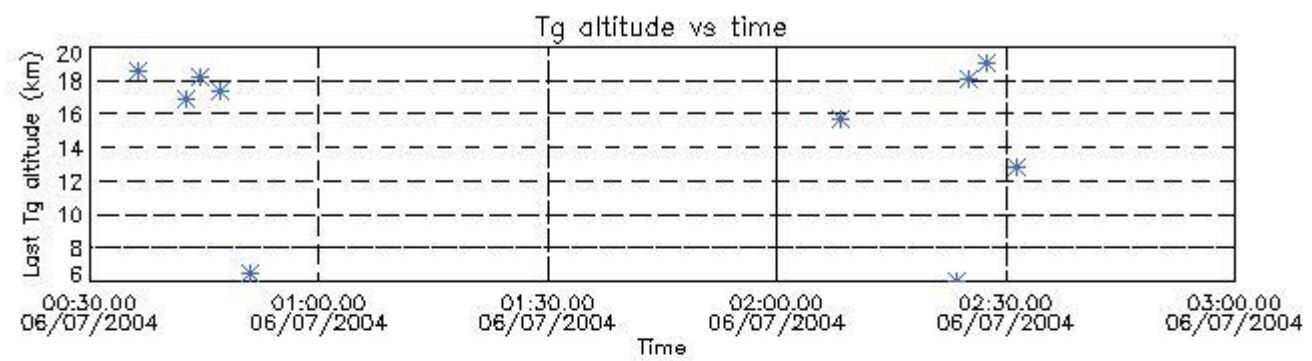
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.918	19.343	13.521
St. deviation:	4.9103	4.2614	7.2336
Maximum:	19.048	26.362	28.094
Minimum:	6.0596	11.585	4.8317
Number of data:	10.000	30.000	8.0000

### 6.2 Plot for DARK limb products

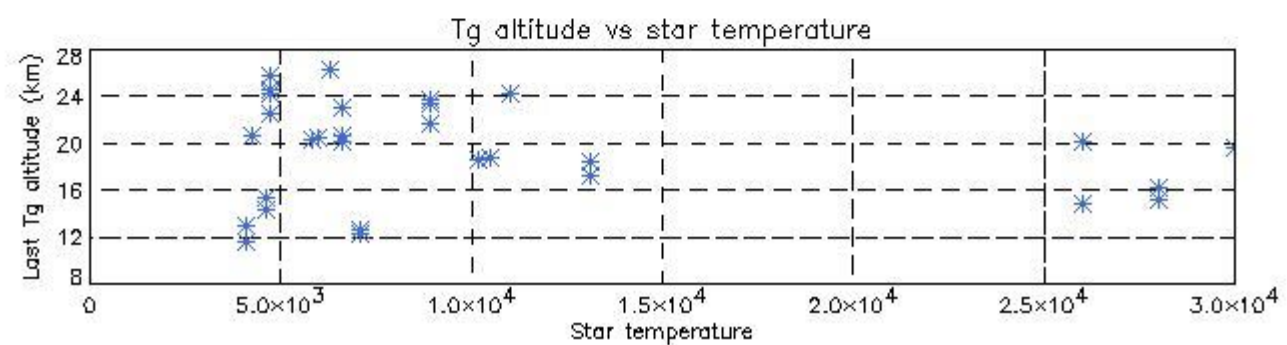
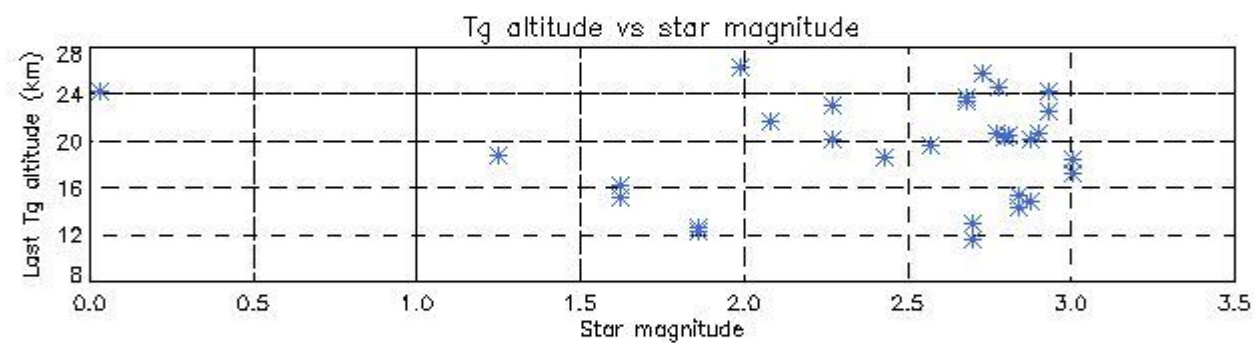
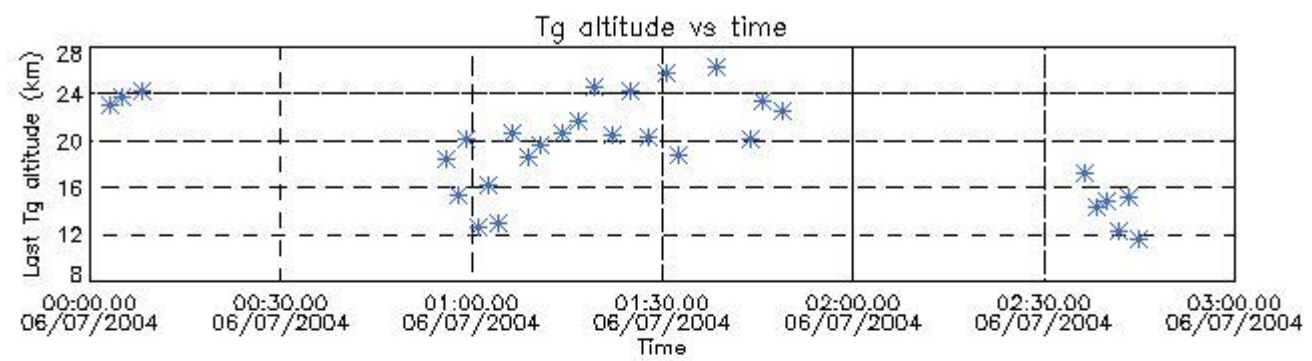


## Tangent altitude at which the star is lost



### 6.3 Plot for BRIGHT limb products

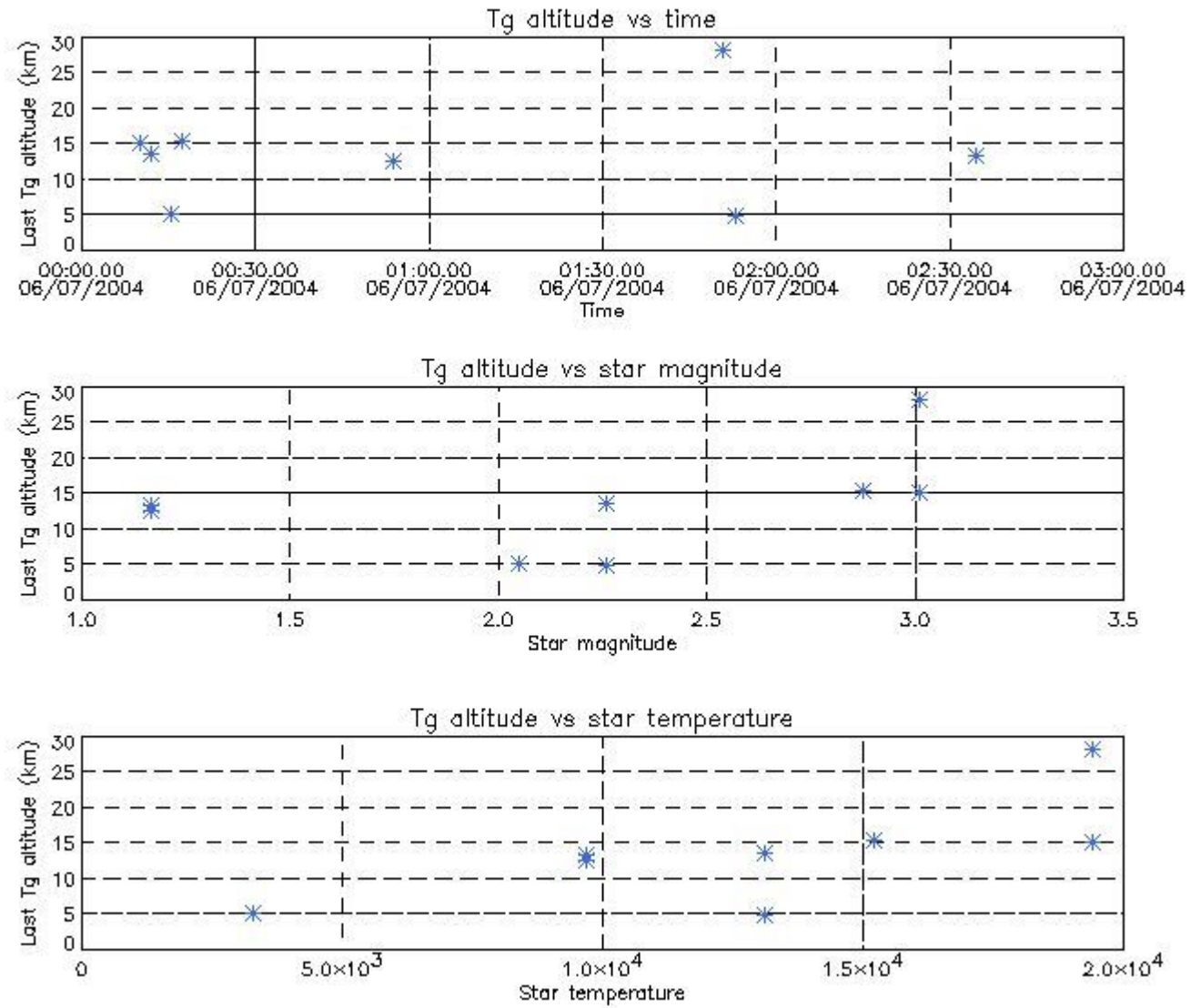
# Tangent altitude at which the star is lost



## 6.3 Plot for TWILIGHT limb products



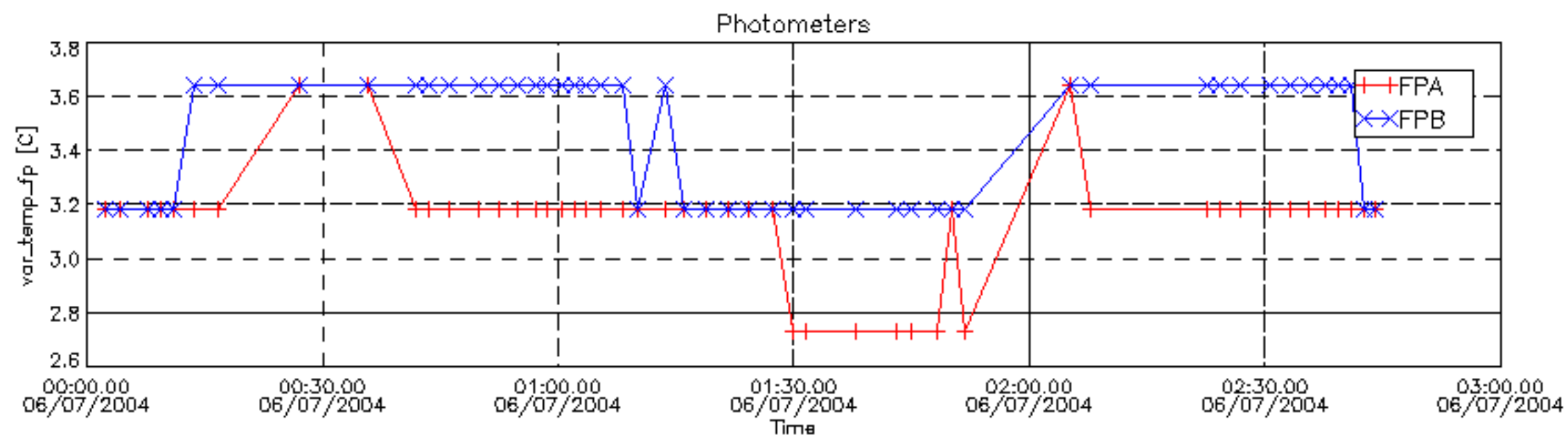
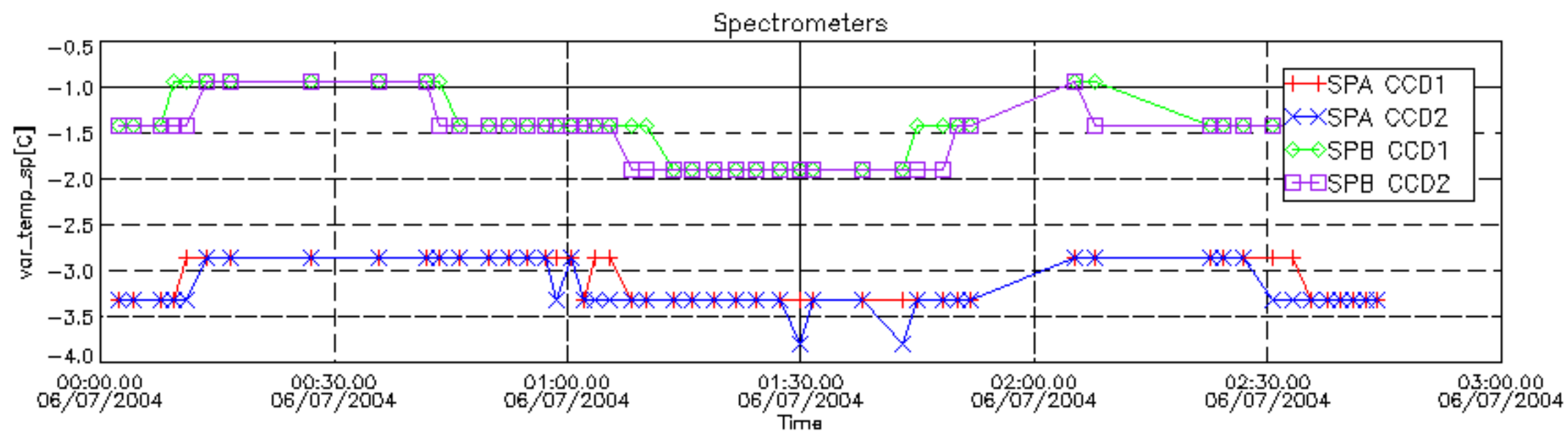
## Tangent altitude at which the star is lost

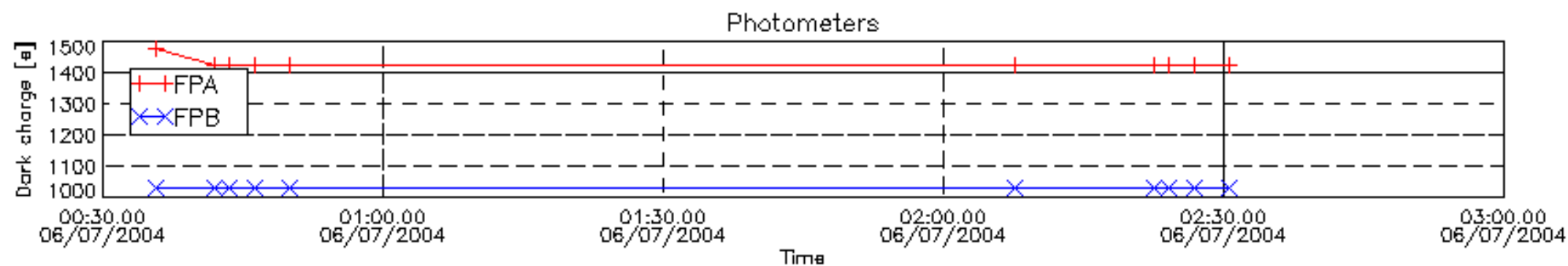
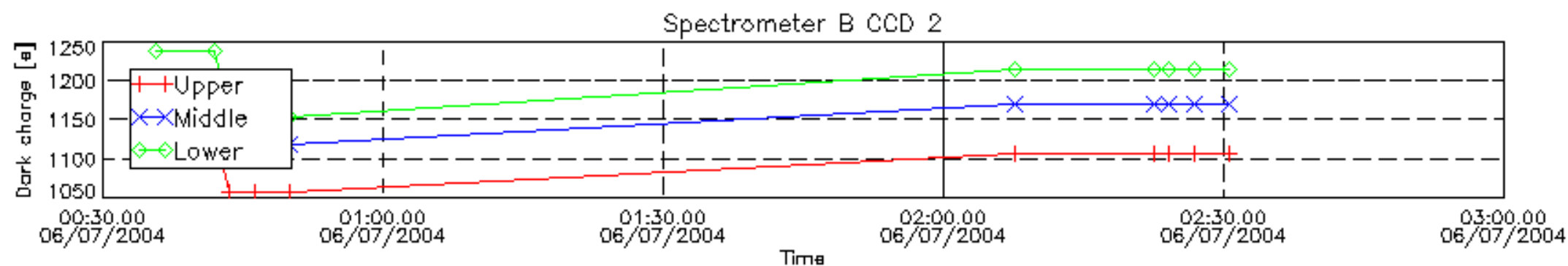
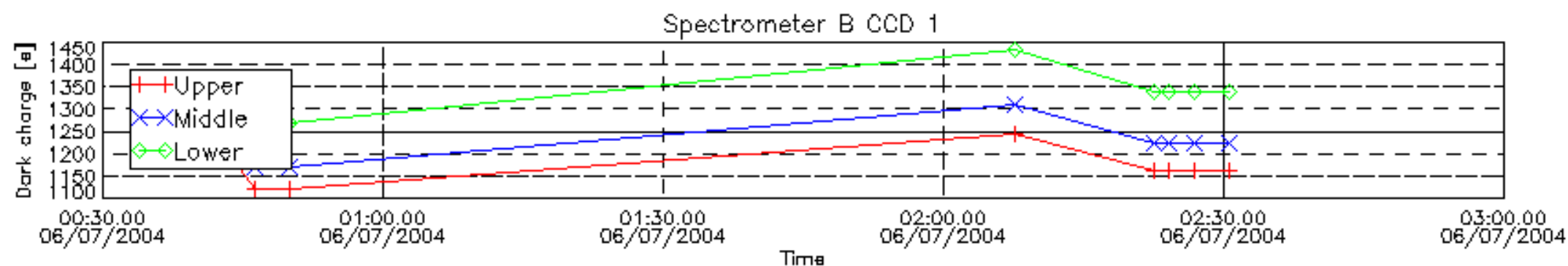
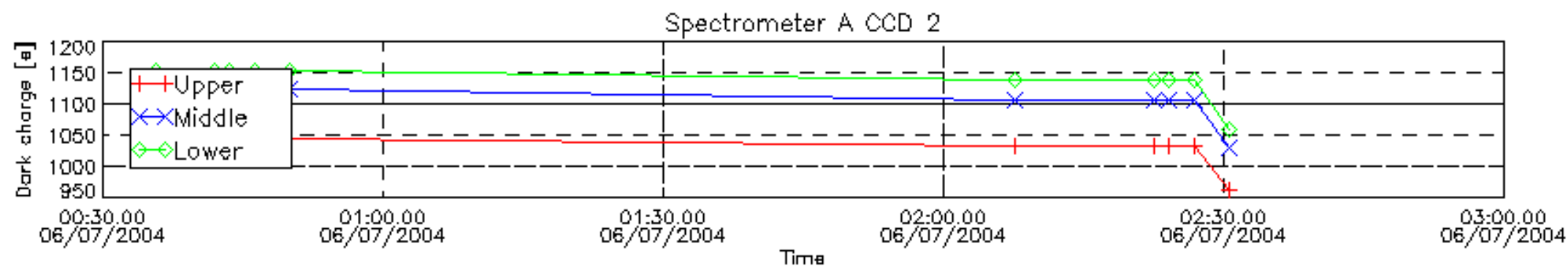
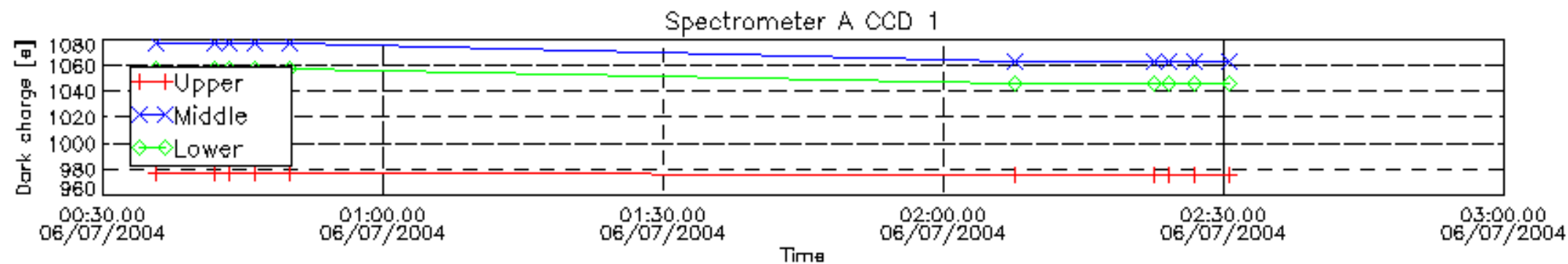


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

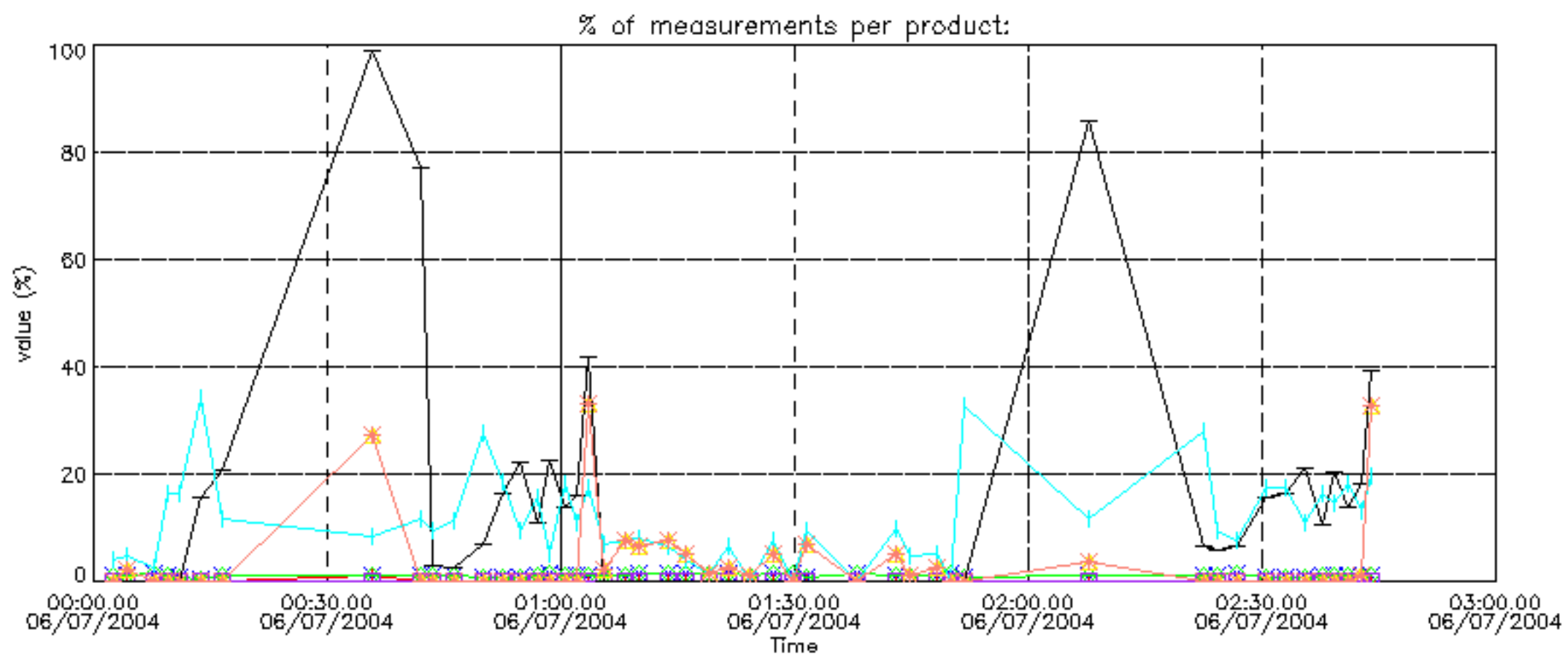
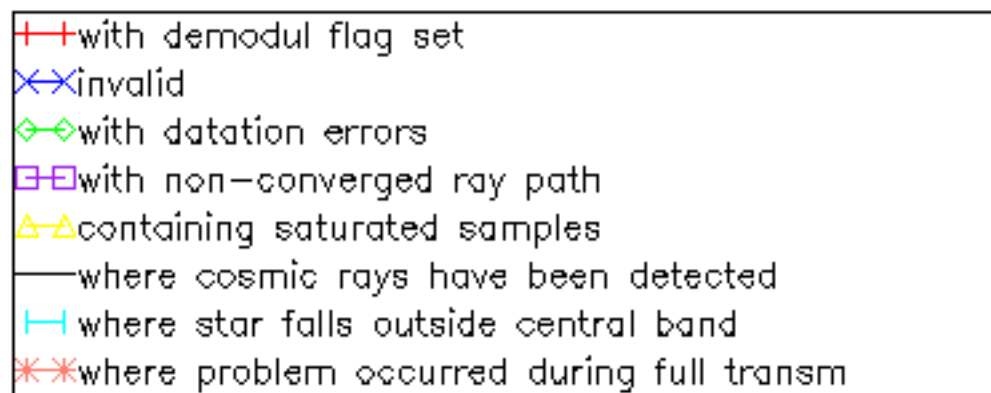
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.6	1447.2	1461.5	1447.5
St. deviation:	4.1308	5.0194	7.0382	7.6929
Maximum:	1532.0	1479.0	1511.0	1489.0
Minimum:	1448.0	1442.0	1451.0	1437.0
Number of data:	12550.	12550.	34300.	34300.

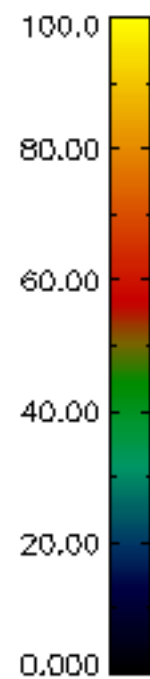
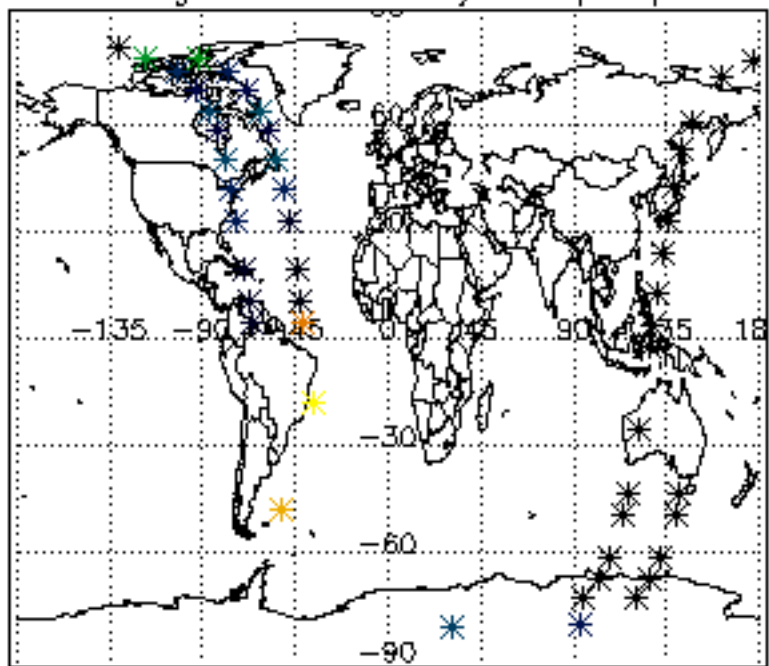




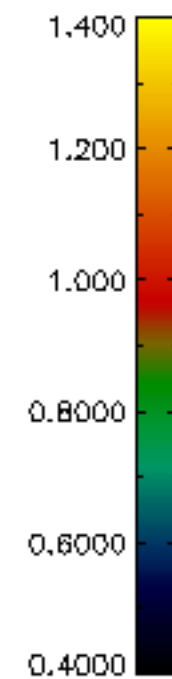
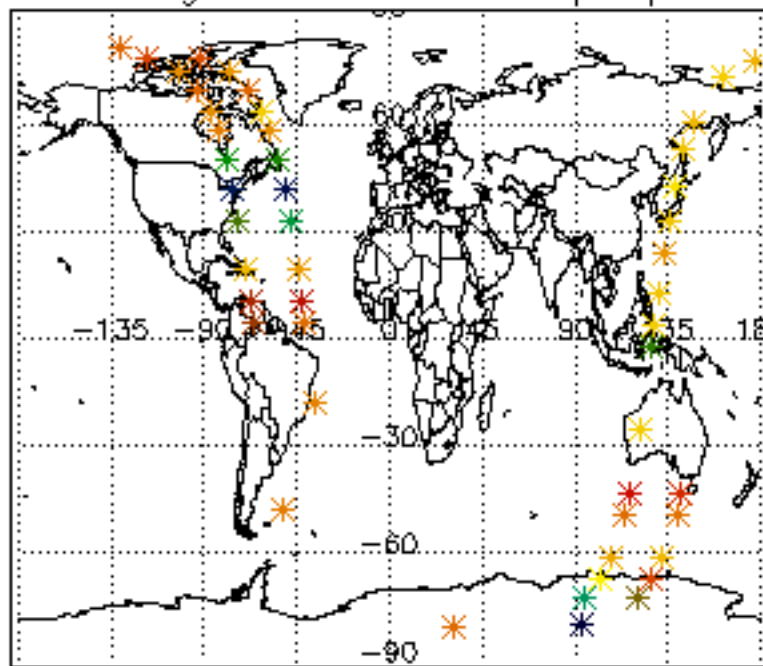




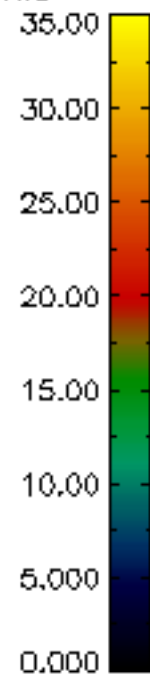
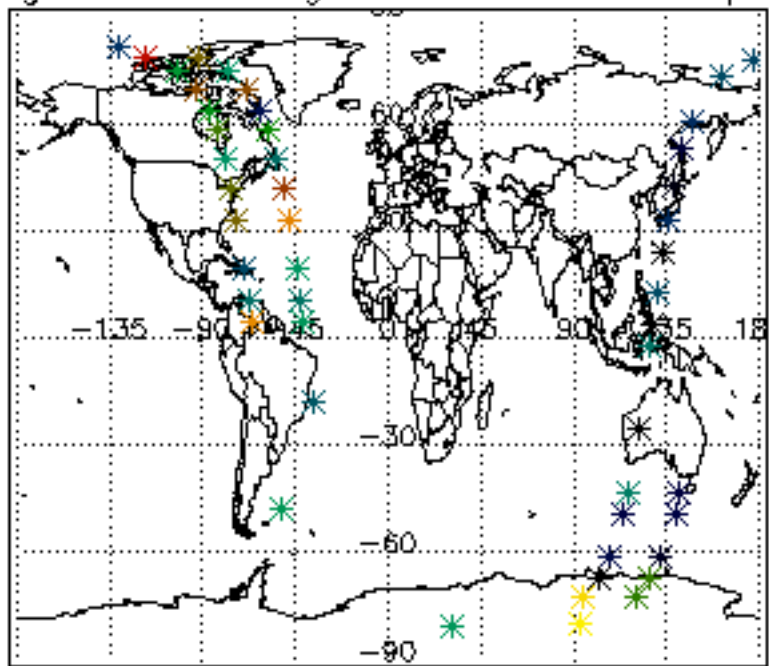
Percentage of cosmic ray hits per profile



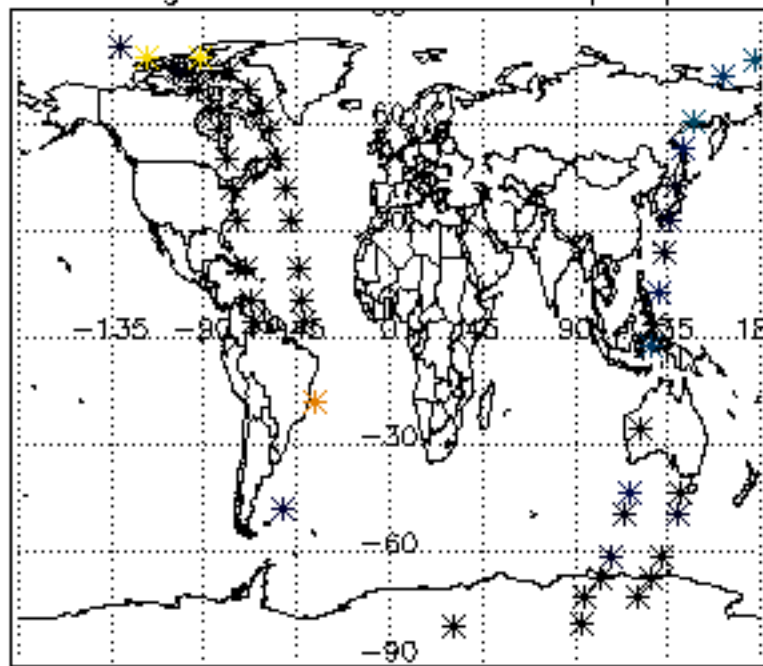
Percentage of datation errors per profile



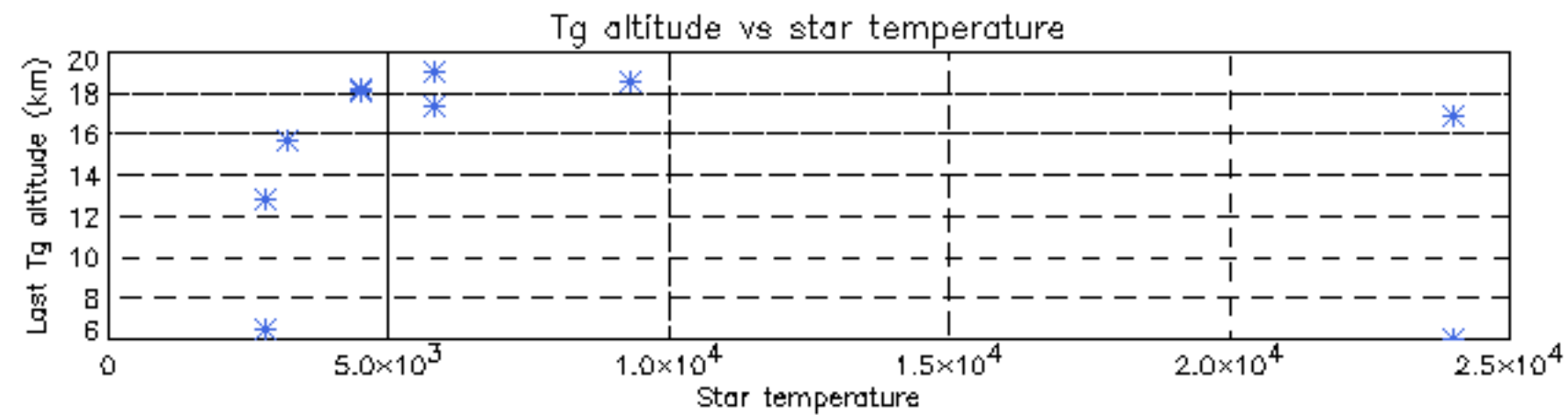
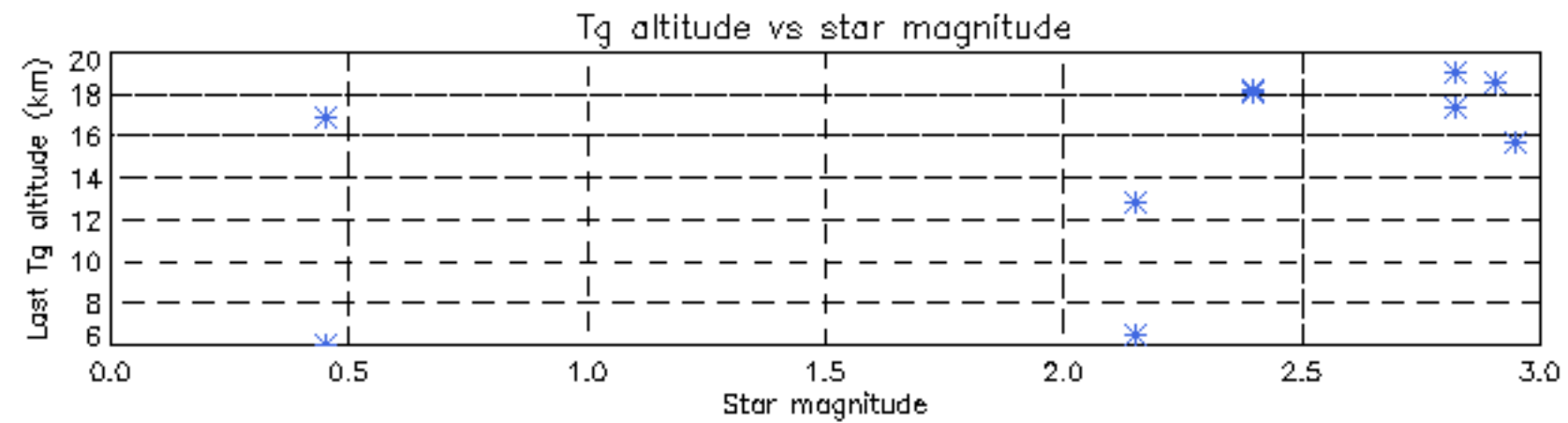
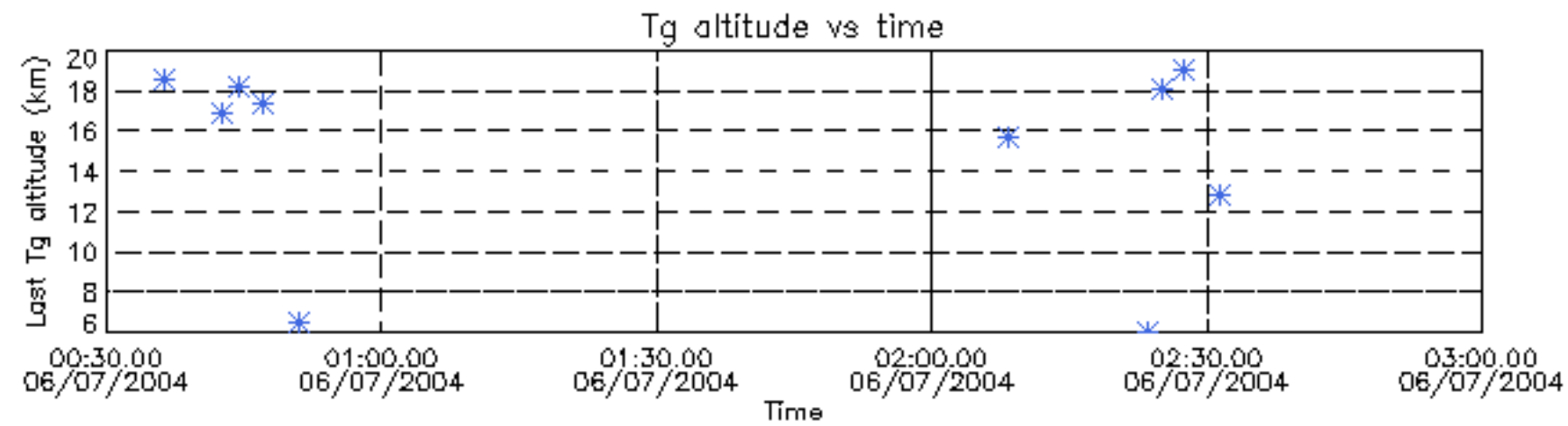
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

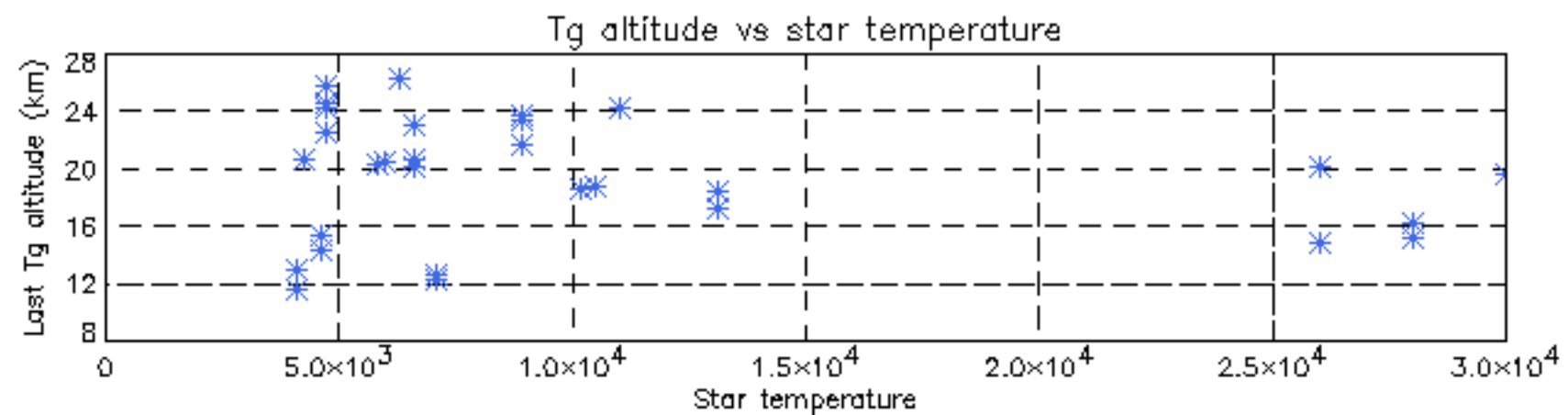
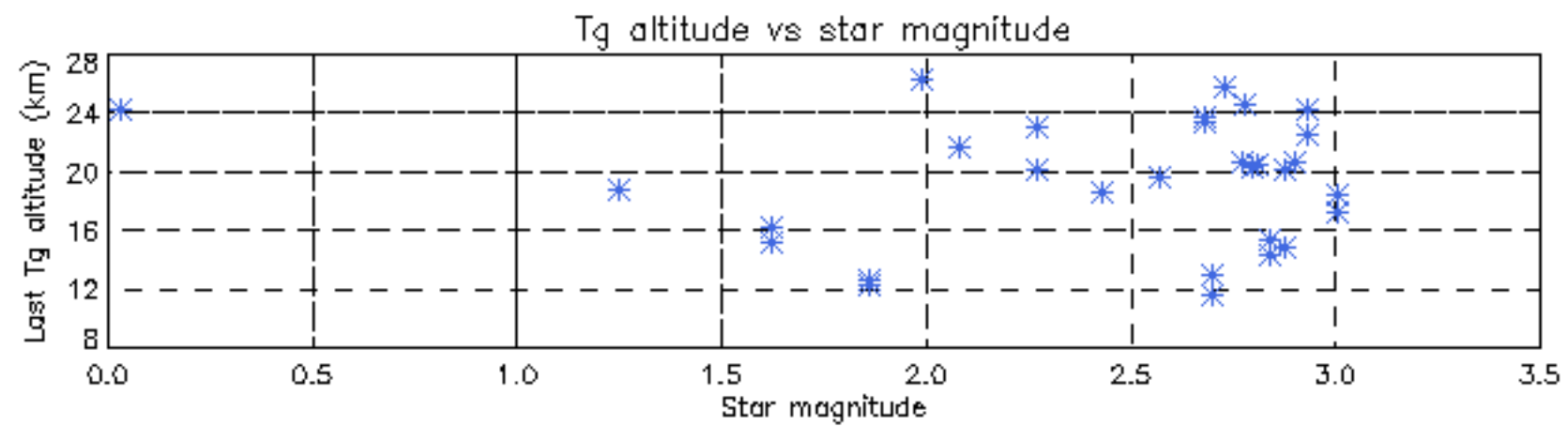
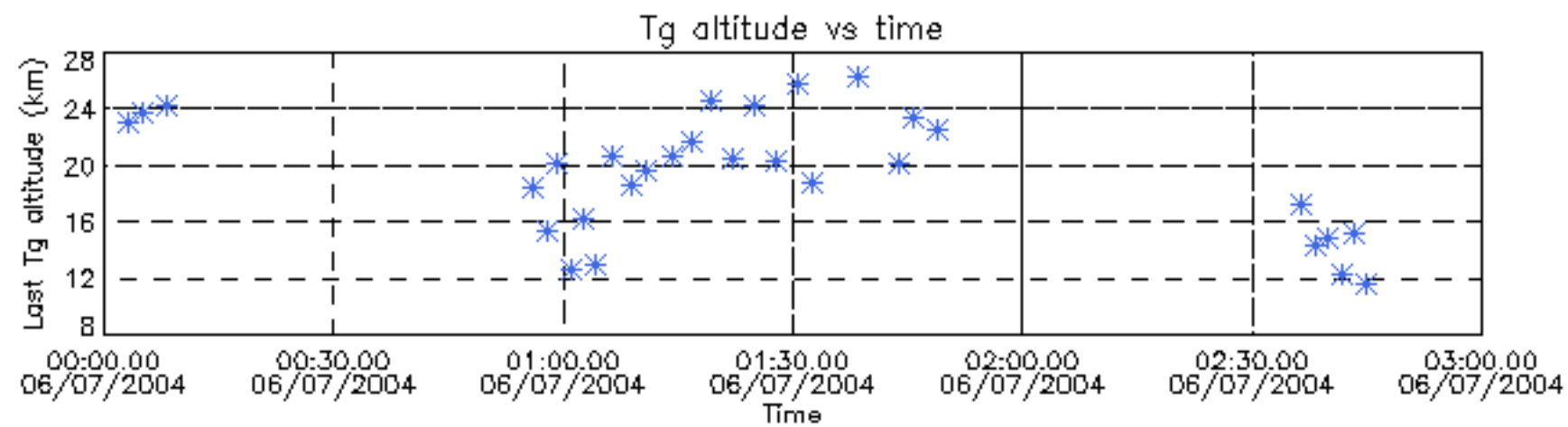


Tangent altitude at which the star is lost

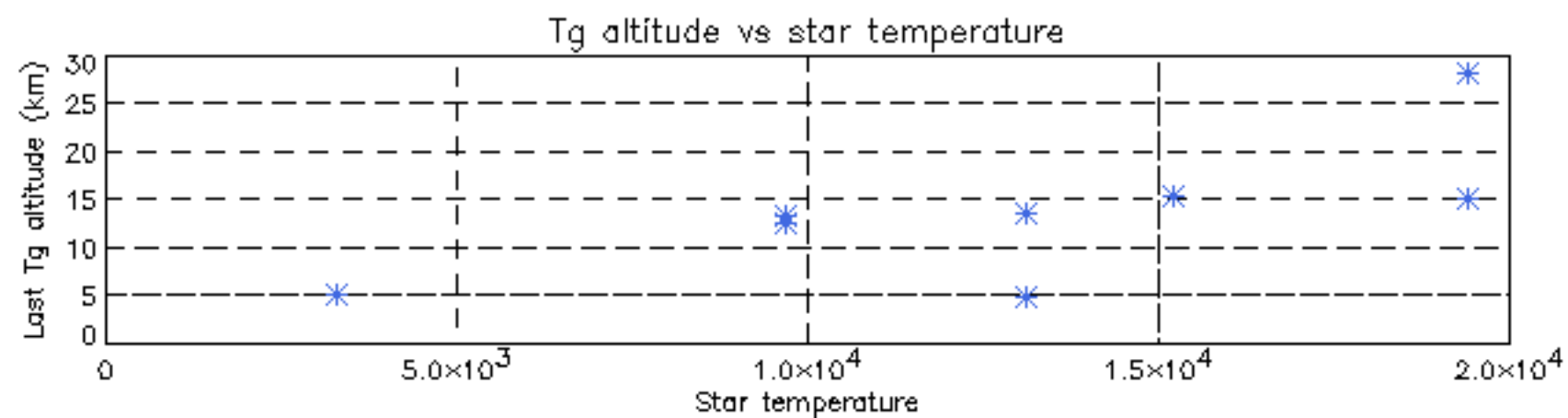
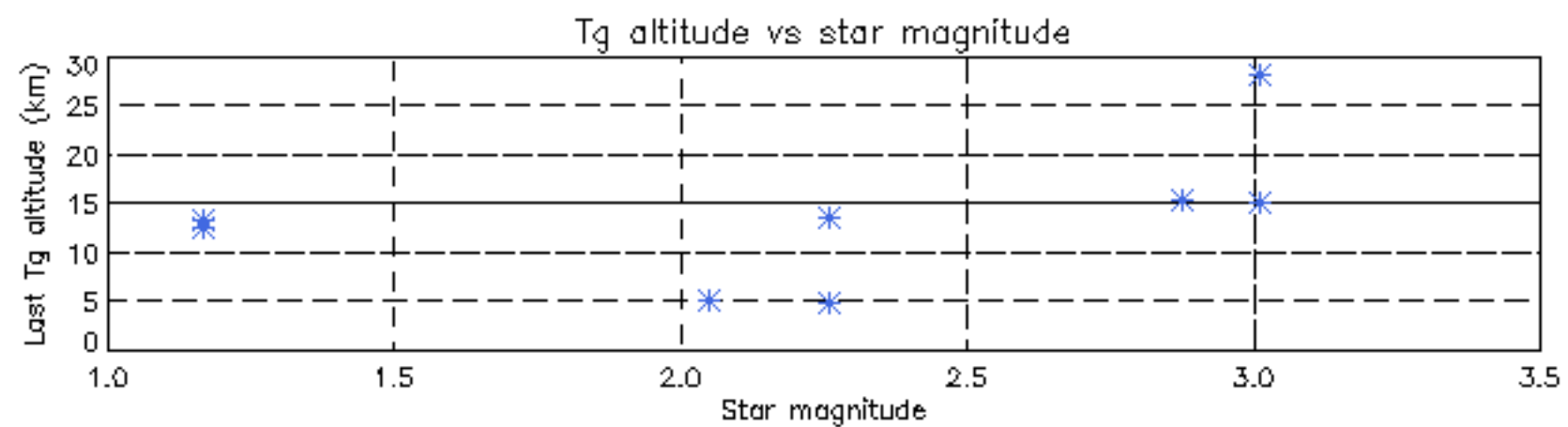
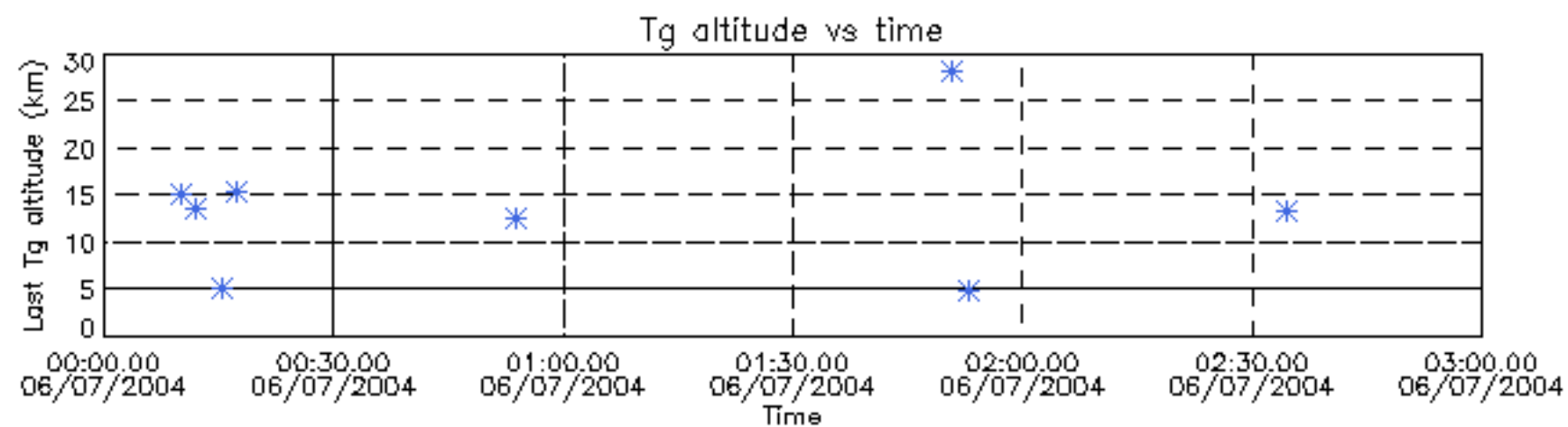




# Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
2;	-494.6;	01-JUL-2004	01:29:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12209
3;	-163.9;	01-JUL-2004	01:35:23;	Dark	;	77.5;	52;	16Bet Cet	;	2.04;	4500;occ;	155;	0;	12209
4;	36.9;	01-JUL-2004	01:38:44;	Dark	;	53.0;	9;	Alp Eri	;	0.45;	24000;occ;	106;	0;	12210
5;	314.6;	01-JUL-2004	01:43:22;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12210
6;	489.7;	01-JUL-2004	01:46:17;	Dark	;	58.5;	63;	Bet Gru	;	2.15;	2800;occ;	117;	0;	12210
7;	585.8;	01-JUL-2004	01:47:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12210
8;	746.2;	01-JUL-2004	01:50:33;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	12210
9;	975.1;	01-JUL-2004	01:54:22;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12210
10;	1061.4;	01-JUL-2004	01:55:49;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	12210
11;	1169.8;	01-JUL-2004	01:57:37;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	12210
12;	1269.3;	01-JUL-2004	01:59:17;	Dark	;	46.0;	25;	35Lam Sco	;	1.62;	28000;occ;	92;	0;	12210
13;	1354.2;	01-JUL-2004	02:00:41;	Dark	;	55.0;	116;	19Del Sgr	;	2.70;	4100;occ;	110;	0;	12210
14;	1480.2;	01-JUL-2004	02:02:47;	Bright;		45.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	90;	0;	12210
15;	1641.2;	01-JUL-2004	02:05:28;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12210
16;	1744.8;	01-JUL-2004	02:07:12;	Bright;		41.0;	98;	13Zet Oph	;	2.57;	30000;occ;	82;	0;	12210
17;	1877.5;	01-JUL-2004	02:09:25;	Bright;		40.5;	120;	1Del Oph	;	2.73;	3200;occ;	81;	0;	12210
18;	1979.7;	01-JUL-2004	02:11:07;	Bright;		39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;	12210
19;	2119.5;	01-JUL-2004	02:13:27;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12210
20;	2281.8;	01-JUL-2004	02:16:09;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12210
21;	2445.7;	01-JUL-2004	02:18:53;	Bright;		37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12210
22;	2647.9;	01-JUL-2004	02:22:15;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12210
23;	2806.6;	01-JUL-2004	02:24:54;	Bright;		39.0;	130;	23Bet Dra	;	2.80;	5800;occ;	78;	0;	12210
24;	2948.0;	01-JUL-2004	02:27:15;	Bright;		39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12210
25;	3190.4;	01-JUL-2004	02:31:18;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	12210
26;	3339.1;	01-JUL-2004	02:33:46;	Bright;		43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	12210
27;	3442.7;	01-JUL-2004	02:35:30;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12210

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1;	-2254.9;	01-JUL-2004	02:41:08;	Bright;		50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12210
2;	-2161.2;	01-JUL-2004	02:42:42;	Bright;		41.5;	110;	37Del Cas	;	2.68;	8900;occ;	83;	0;	12210
3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;		46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
4;	-1871.6;	01-JUL-2004	02:47:31;	Bright;		36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12210
5;	-1770.5;	01-JUL-2004	02:49:13;	Bright;		52.5;	73;	57Gam1And	;	2.26;	13100;occ;	105;	0;	12210
6;	-1616.9;	01-JUL-2004	02:51:46;	Dark	;	68.5;	53;	43Bet And	;	2.05;	3300;occ;	137;	0;	12210
7;	-1355.5;	01-JUL-2004	02:56:08;	Dark	;	66.5;	50;	13Alp Ari	;	2.01;	4250;occ;	133;	0;	12210
8;	-1058.3;	01-JUL-2004	03:01:05;	Dark	;	58.0;	94;	92Alp Cet	;	2.53;	3100;occ;	116;	0;	12210
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
10;	-494.4;	01-JUL-2004	03:10:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12210
11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
12;	-162.7;	01-JUL-2004	03:16:00;	Dark	;	90.5;	52;	16Bet Cet	;	2.04;	4500;occ;	181;	0;	12210
13;	38.0;	01-JUL-2004	03:19:21;	Dark	;	50.0;	9;	Alp Eri	;	0.45;	24000;occ;	100;	0;	12211
14;	314.9;	01-JUL-2004	03:23:58;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12211
15;	490.7;	01-JUL-2004	03:26:54;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	12211
16;	587.9;	01-JUL-2004	03:28:31;	Dark	;	82.5;	18;	24Alp PsA	;	1.17;	9700;occ;	165;	0;	12211
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
18;	975.2;	01-JUL-2004	03:34:58;	Dark	;	41.0;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	12211
19;	1062.4;	01-JUL-2004	03:36:25;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;	12211
20;	1170.6;	01-JUL-2004	03:38:14;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	12211
21;	1267.9;	01-JUL-2004	03:39:51;	Dark	;	46.5;	25;	35Lam Sco	;	1.62;	28000;occ;	93;	0;	12211
22;	1355.5;	01-JUL-2004	03:41:19;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;	12211
23;	1480.2;	01-JUL-2004	03:43:23;	Bright;		46.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	92;	0;	12211
24;	1642.0;	01-JUL-2004	03:46:05;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12211
25;	1746.8;	01-JUL-2004	03:47:50;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	12211
26;	1877.8;	01-JUL-2004	03:50:01;	Bright;		39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;	12211
27;	1979.9;	01-JUL-2004	03:51:43;	Bright;		38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12211
28;	2120.0;	01-JUL-2004	03:54:03;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12211
29;	2282.2;	01-JUL-2004	03:56:45;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12211
30;	2446.6;	01-JUL-2004	03:59:30;	Bright;		39.0;	133;	40Zet Her	;	2.81;	6000;occ;	78;	0;	12211
31;	2647.3;	01-JUL-2004	04:02:50;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12211
32;	2806.7;	01-JUL-2004	04:05:30;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12211
33;	2950.6;	01-JUL-2004	04:07:54;	Bright;		35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	12211
34;	3190.9;	01-JUL-2004	04:11:54;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	12211
35;	3338.3;	01-JUL-2004	04:14:21;	Bright;		43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12211
36;	3443.4;	01-JUL-2004	04:16:06;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	12211

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1;	-2256.3;	01-JUL-2004	04:21:43;	Bright;		70.0;	74;	11Bet Cas	;	2.27;	6600;occ;	140;	0;	12211
2;	-2161.9;	01-JUL-2004	04:23:17;	Bright;		62.0;	110;	37Del Cas	;	2.68;	8900;occ;	124;	0;	12211



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3;-1975.4; 01-JUL-2004 04:26:24; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;12211
4;-1872.4; 01-JUL-2004 04:28:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12211
5;-1770.6; 01-JUL-2004 04:29:48; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12211
6;-1617.6; 01-JUL-2004 04:32:22; Dark ; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;12211
7;-1355.6; 01-JUL-2004 04:36:43; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;12211
8;-1057.3; 01-JUL-2004 04:41:42; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;12211
9; -834.9; 01-JUL-2004 04:45:24; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;12211
10; -494.3; 01-JUL-2004 04:51:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12211
11; -329.1; 01-JUL-2004 04:53:50; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12211
12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
14; 315.6; 01-JUL-2004 05:04:35; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12212
15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
17; 747.1; 01-JUL-2004 05:11:46; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12212
18; 975.6; 01-JUL-2004 05:15:35; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;12212
19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
20; 1171.4; 01-JUL-2004 05:18:51; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;12212
21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
28; 2120.4; 01-JUL-2004 05:34:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;12212
29; 2283.4; 01-JUL-2004 05:37:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;12212
30; 2446.9; 01-JUL-2004 05:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12212
31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
32; 2806.1; 01-JUL-2004 05:46:05; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12212
33; 2951.0; 01-JUL-2004 05:48:30; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12212
34; 3191.5; 01-JUL-2004 05:52:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;12212
35; 3337.5; 01-JUL-2004 05:54:57; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12212
36; 3443.7; 01-JUL-2004 05:56:43; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12212
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2;-2162.7; 01-JUL-2004 06:03:52; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;12212
3;-1975.1; 01-JUL-2004 06:07:00; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12212
4;-1871.8; 01-JUL-2004 06:08:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;12212
5;-1771.3; 01-JUL-2004 06:10:24; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;12212
6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
8;-1056.5; 01-JUL-2004 06:22:19; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12212
9; -834.7; 01-JUL-2004 06:26:00; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12212
10; -494.1; 01-JUL-2004 06:31:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12212
11; -328.5; 01-JUL-2004 06:34:27; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;12212
12; -158.6; 01-JUL-2004 06:37:17; Dark ; 93.0; 52; 16Bet Cet ; 2.04; 4500;occ; 186; 0;12212
13; 39.3; 01-JUL-2004 06:40:34; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;12213
14; 316.0; 01-JUL-2004 06:45:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12213
15; 493.0; 01-JUL-2004 06:48:08; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;12213
16; 591.0; 01-JUL-2004 06:49:46; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12213
17; 747.9; 01-JUL-2004 06:52:23; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12213
18; 975.3; 01-JUL-2004 06:56:10; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12213
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11;-3398.8; 02-JUL-2004 16:55:51; Bright; 48.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 96; 0;12233
12;-3233.8; 02-JUL-2004 16:58:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;12233
13;-3084.2; 02-JUL-2004 17:01:06; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12233
14;-2842.9; 02-JUL-2004 17:05:07; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12233
15;-2712.7; 02-JUL-2004 17:07:17; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;12233
16;-2595.3; 02-JUL-2004 17:09:15; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;12233
17;-2267.1; 02-JUL-2004 17:14:43; Bright; 70.0; 74; 11Bet Cas ; 2.27; 6600;occ; 140; 0;12233
18;-2168.1; 02-JUL-2004 17:16:22; Bright; 61.0; 110; 37Del Cas ; 2.68; 8900;occ; 122; 0;12233
19;-1979.2; 02-JUL-2004 17:19:31; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12233
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21;-1775.2; 02-JUL-2004 17:22:55; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12233
22;-1617.4; 02-JUL-2004 17:25:33; Dark ; 84.5; 53; 43Bet And ; 2.05; 3300;occ; 169; 0;12233
23;-1453.2; 02-JUL-2004 17:28:17; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;12233
24;-1347.4; 02-JUL-2004 17:30:03; Dark ; 63.0; 50; 13Alp Ari ; 2.01; 4250;occ; 126; 0;12233
25;-1047.5; 02-JUL-2004 17:35:03; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12233
26;-831.0; 02-JUL-2004 17:38:39; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;12233
27;-507.0; 02-JUL-2004 17:44:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12233
28;-319.7; 02-JUL-2004 17:47:10; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12233
29;-119.0; 02-JUL-2004 17:50:31; Dark ; 83.0; 52; 16Bet Cet ; 2.04; 4500;occ; 166; 0;12233
30; 48.3; 02-JUL-2004 17:53:18; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;12234
31; 320.1; 02-JUL-2004 17:57:50; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12234
32; 513.0; 02-JUL-2004 18:01:03; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;12234
33; 628.0; 02-JUL-2004 18:02:58; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;12234
34; 804.3; 02-JUL-2004 18:05:54; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;12234
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 13;-3588.1; 02-JUL-2004 18:33:18; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;12234  
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 24;-1773.6; 02-JUL-2004 19:03:32; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12234  
 25;-1617.0; 02-JUL-2004 19:06:09; Dark ; 81.0; 53; 43Bet And ; 2.05; 3300;occ; 162; 0;12234  
 26;-1453.5; 02-JUL-2004 19:08:53; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;12234  
 27;-1346.6; 02-JUL-2004 19:10:39; Dark ; 70.0; 50; 13Alp Ari ; 2.01; 4250;occ; 140; 0;12234  
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 29; -830.7; 02-JUL-2004 19:19:15; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;12234  
 30; -506.1; 02-JUL-2004 19:24:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12234  
 31; -319.7; 02-JUL-2004 19:27:46; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;12234  
 32; -117.1; 02-JUL-2004 19:31:09; Dark ; 85.0; 52; 16Bet Cet ; 2.04; 4500;occ; 170; 0;12234  
 33; 47.0; 02-JUL-2004 19:33:53; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;12235  
 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235  
 35; 514.0; 02-JUL-2004 19:41:40; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12235  
 36; 629.7; 02-JUL-2004 19:43:36; Dark ; 84.0; 18; 24Alp PsA ; 1.17; 9700;occ; 168; 0;12235  
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 11; -825.8; 03-JUL-2004 07:03:32; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12241  
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 16; 323.2; 03-JUL-2004 07:22:41; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12242  
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 18; 641.0; 03-JUL-2004 07:27:59; Dark ; 90.5; 18; 24Alp PsA ; 1.17; 9700;occ; 181; 0;12242  
 19; 812.9; 03-JUL-2004 07:30:50; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;12242  
 20; 980.4; 03-JUL-2004 07:33:38; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;12242  
 21; 1069.0; 03-JUL-2004 07:35:06; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12242  
 22; 1177.6; 03-JUL-2004 07:36:55; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;12242  
 23; 1277.4; 03-JUL-2004 07:38:35; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;12242  
 24; 1363.3; 03-JUL-2004 07:40:01; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;12242  
 25; 1486.5; 03-JUL-2004 07:42:04; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;12242  
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4;	-4055.3;	03-JUL-2004	07:50:18;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12242	
5;	-3916.4;	03-JUL-2004	07:52:37;	Bright;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;	12242	
6;	-3747.6;	03-JUL-2004	07:55:26;	Bright;	39.0;	127;	27Bet Her	;	2.78;	4700;occ;	78;	0;	12242	
7;	-3585.9;	03-JUL-2004	07:58:08;	Bright;	37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	12242	
8;	-3402.2;	03-JUL-2004	08:01:11;	Bright;	45.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	90;	0;	12242	
9;	-3233.2;	03-JUL-2004	08:04:00;	Bright;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	12242	
10;	-3082.9;	03-JUL-2004	08:06:31;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	12242	
11;	-2840.2;	03-JUL-2004	08:10:33;	Bright;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	12242	
12;	-2718.5;	03-JUL-2004	08:12:35;	Bright;	46.0;	89;	5Alp Cep	;	2.45;	8000;occ;	92;	0;	12242	
13;	-2592.2;	03-JUL-2004	08:14:41;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12242	
14;	-2272.0;	03-JUL-2004	08:20:01;	Bright;	50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12242	
15;	-2171.2;	03-JUL-2004	08:21:42;	Bright;	51.5;	110;	37Del Cas	;	2.68;	8900;occ;	103;	0;	12242	
16;	-1976.9;	03-JUL-2004	08:24:57;	Bright;	38.5;	160;	23Gam Per	;	2.93;	4700;occ;	77;	0;	12242	
17;	-1870.0;	03-JUL-2004	08:26:43;	Bright;	40.5;	175;	39Del Per	;	3.01;	19400;occ;	81;	0;	12242	
18;	-1774.2;	03-JUL-2004	08:28:19;	Bright;	54.5;	73;	57Gam1And	;	2.26;	13100;occ;	109;	0;	12242	
19;	-1617.5;	03-JUL-2004	08:30:56;	Dark	;	83.0;	43Bet And	;	2.05;	3300;occ;	166;	0;	12242	
20;	-1450.9;	03-JUL-2004	08:33:43;	Dark	;	41.5;	146;	25Eta Tau	;	2.87;	15200;occ;	83;	0;	12242
21;	-1344.4;	03-JUL-2004	08:35:29;	Dark	;	66.0;	50;	13Alp Ari	;	2.01;	4250;occ;	132;	0;	12242
22;	-1042.6;	03-JUL-2004	08:40:31;	Dark	;	54.0;	94;	92Alp Cet	;	2.53;	3100;occ;	108;	0;	12242
23;	-825.2;	03-JUL-2004	08:44:08;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	12242
24;	-498.5;	03-JUL-2004	08:49:35;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	12242	
25;	-315.1;	03-JUL-2004	08:52:38;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12242
26;	-101.9;	03-JUL-2004	08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
27;	54.2;	03-JUL-2004	08:58:48;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	12243
28;	323.2;	03-JUL-2004	09:03:17;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12243
29;	521.8;	03-JUL-2004	09:06:35;	Dark	;	56.5;	63;	Bet Gru	;	2.15;	2800;occ;	113;	0;	12243
30;	642.7;	03-JUL-2004	09:08:36;	Dark	;	81.5;	18;	24Alp PsA	;	1.17;	9700;occ;	163;	0;	12243
31;	814.2;	03-JUL-2004	09:11:28;	Dark	;	60.0;	172;	Gam Gru	;	3.00;	13100;occ;	120;	0;	12243
32;	980.6;	03-JUL-2004	09:14:14;	Dark	;	42.5;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	12243
33;	1069.0;	03-JUL-2004	09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
34;	1177.6;	03-JUL-2004	09:17:31;	Dark	;	44.0;	40;	The Sco	;	1.86;	7100;occ;	88;	0;	12243
35;	1277.5;	03-JUL-2004	09:19:11;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;	12243
36;	1363.4;	03-JUL-2004	09:20:37;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;occ;	103;	0;	12243
37;	1486.7;	03-JUL-2004	09:22:40;	Bright;	44.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	88;	0;	12243	
38;	1647.5;	03-JUL-2004	09:25:21;	Bright;	37.5;	86;	35Eta Oph	;	2.43;	10200;occ;	75;	0;	12243	
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3;	-4055.2;	03-JUL-2004	09:30:54;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12243	
4;	-3916.5;	03-JUL-2004	09:33:13;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	12243	
5;	-3747.6;	03-JUL-2004	09:36:02;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12243	
6;	-3585.9;	03-JUL-2004	09:38:43;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12243	
7;	-3402.8;	03-JUL-2004	09:41:47;	Bright;	47.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	95;	0;	12243	
8;	-3233.6;	03-JUL-2004	09:44:36;	Bright;	38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	12243	
9;	-3083.0;	03-JUL-2004	09:47:06;	Bright;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	12243	
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11;	-2719.5;	03-JUL-2004	09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
12;	-2592.2;	03-JUL-2004	09:55:17;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12243	
13;	-2272.5;	03-JUL-2004	10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
14;	-2171.5;	03-JUL-2004	10:02:18;	Bright;	44.0;	110;	37Del Cas	;	2.68;	8900;occ;	88;	0;	12243	
15;	-1977.0;	03-JUL-2004	10:05:32;	Bright;	39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;	12243	
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13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
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