

# GOMOS Daily Report 24-JAN-2004

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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	25JAN2004 06:52:40
Data source version	<Any version>
Start time of products	24-JAN-2004 (24JAN2004 00:00:00)
Stop time of products	25-JAN-2004 (25JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	39
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

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

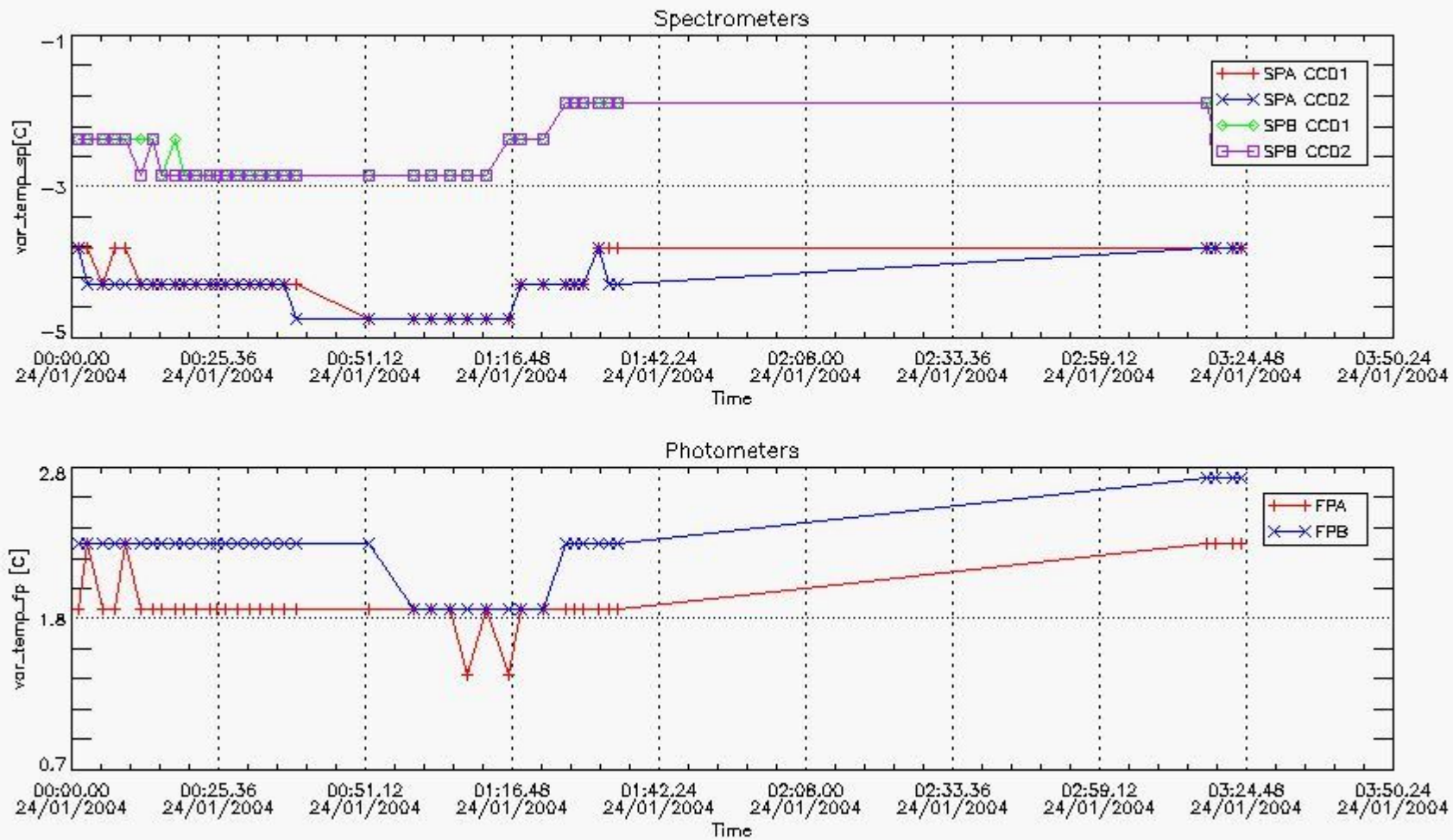
[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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GOM_TRA_1PNPDE20040124_000117_000000442023_00360_09933_0029.N1	24-JAN-2004 00:01:17	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	9933	No
GOM_TRA_1PNPDE20040124_000245_000000472023_00360_09933_0030.N1	24-JAN-2004 00:02:45	Dark	47.000	99	Del Cen	2.5750	26000.	94	9933	No
GOM_TRA_1PNPDE20040124_000523_000000422023_00360_09933_0031.N1	24-JAN-2004 00:05:23	Dark	41.500	29	Bet Car	1.6720	10200.	83	9933	No
GOM_TRA_1PNPDE20040124_000733_000000462023_00360_09933_0032.N1	24-JAN-2004 00:07:33	Dark	46.000	71	lot Car	2.2460	7700.0	92	9933	No
GOM_TRA_1PNPDE20040124_000920_000000462023_00360_09933_0033.N1	24-JAN-2004 00:09:20	Dark	45.500	46	Del Vel	1.9540	10600.	91	9933	No
GOM_TRA_1PNPDE20040124_001154_000000502023_00360_09933_0034.N1	24-JAN-2004 00:11:54	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	9933	No
GOM_TRA_1PNPDE20040124_001406_000000432023_00360_09933_0035.N1	24-JAN-2004 00:14:06	Dark	42.500	70	Zet Pup	2.2460	39000.	85	9933	No
GOM_TRA_1PNPDE20040124_001536_000000472023_00360_09933_0036.N1	24-JAN-2004 00:15:36	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	9933	No
GOM_TRA_1PNPDE20040124_001805_000000432023_00360_09933_0000.N1	24-JAN-2004 00:18:05	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	9933	No
GOM_TRA_1PNPDE20040124_001929_000000402023_00360_09933_0001.N1	24-JAN-2004 00:19:29	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	9933	No
GOM_TRA_1PNPDE20040124_002136_000000522023_00360_09933_0002.N1	24-JAN-2004 00:21:36	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	9933	No
GOM_TRA_1PNPDE20040124_002413_000000422023_00360_09933_0003.N1	24-JAN-2004 00:24:13	Dark	41.500	56	53Kap Ori	2.0650	30000.	83	9933	No
GOM_TRA_1PNPDE20040124_002526_000000402023_00360_09933_0004.N1	24-JAN-2004 00:25:26	Dark	40.000	125	44lot Ori	2.7700	30000.	80	9933	No
GOM_TRA_1PNPDE20040124_002643_000000432023_00360_09933_0005.N1	24-JAN-2004 00:26:43	Dark	43.000	30	46Eps Ori	1.6940	30000.	86	9933	No
GOM_TRA_1PNPDE20040124_002849_000000522023_00360_09933_0006.N1	24-JAN-2004 00:28:49	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	9933	No
GOM_TRA_1PNPDE20040124_003100_000000402023_00360_09933_0007.N1	24-JAN-2004 00:31:00	Bright	40.000	44	24Gam Gem	1.9280	11000.	80	9933	No
GOM_TRA_1PNPDE20040124_003246_000000412023_00360_09933_0008.N1	24-JAN-2004 00:32:46	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	9933	No
GOM_TRA_1PNPDE20040124_003502_000000402023_00360_09933_0009.N1	24-JAN-2004 00:35:02	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	9933	No
GOM_TRA_1PNPDE20040124_003700_000000372023_00360_09933_0010.N1	24-JAN-2004 00:37:00	Bright	36.500	107	37The Aur	2.6490	11000.	73	9933	No
GOM_TRA_1PNPDE20040124_003908_000000382023_00360_09933_0011.N1	24-JAN-2004 00:39:08	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	9933	No
GOM_TRA_1PNPDE20040124_005139_000000382023_00360_09933_0012.N1	24-JAN-2004 00:51:39	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	9933	No
GOM_TRA_1PNPDE20040124_005945_000000392023_00360_09933_0013.N1	24-JAN-2004 00:59:45	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9933	No
GOM_TRA_1PNPDE20040124_010238_000000392023_00360_09933_0014.N1	24-JAN-2004 01:02:38	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	9933	No
GOM_TRA_1PNPDE20040124_010559_000000372023_00360_09933_0015.N1	24-JAN-2004 01:05:59	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	9933	No
GOM_TRA_1PNPDE20040124_010903_000000402023_00360_09933_0016.N1	24-JAN-2004 01:09:03	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	9933	No
GOM_TRA_1PNPDE20040124_011221_000000762023_00360_09933_0017.N1	24-JAN-2004 01:12:21	Bright	75.500	83		2.3780	11000.	151	9933	No
GOM_TRA_1PNPDE20040124_011605_000000372023_00360_09933_0018.N1	24-JAN-2004 01:16:05	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	9933	No
GOM_TRA_1PNPDE20040124_011826_000001382023_00360_09933_0019.N1	24-JAN-2004 01:18:26	Dark	138.00	3	16Alp Boo	-0.050000	4250.0	276	9933	No
GOM_TRA_1PNPDE20040124_012216_000000412023_00360_09933_0020.N1	24-JAN-2004 01:22:16	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	9933	No
GOM_TRA_1PNPDE20040124_012612_000000552023_00360_09933_0021.N1	24-JAN-2004 01:26:12	Dark	55.000	16	21Alp Sco	1.0200	3000.0	110	9933	No
GOM_TRA_1PNPDE20040124_012737_000000442023_00360_09933_0022.N1	24-JAN-2004 01:27:37	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	9933	No
GOM_TRA_1PNPDE20040124_012911_000000402023_00360_09933_0023.N1	24-JAN-2004 01:29:11	Dark	40.000	40	The Sco	1.8590	7100.0	80	9933	No
GOM_TRA_1PNPDE20040124_013144_000000422023_00360_09933_0024.N1	24-JAN-2004 01:31:44	Dark	41.500	131	Gam Lup	2.8000	26000.	83	9933	No
GOM_TRA_1PNPDE20040124_013343_000000442023_00360_09933_0025.N1	24-JAN-2004 01:33:43	Dark	44.000	109	Bet Lup	2.6770	26000.	88	9933	No
GOM_TRA_1PNPDE20040124_013512_000000452023_00361_09934_0026.N1	24-JAN-2004 01:35:12	Dark	45.000	78	Alp Lup	2.3040	28000.	90	9934	No
GOM_TRA_1PNPDE20040124_031758_000000452023_00362_09935_0000.N1	24-JAN-2004 03:17:58	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	9935	No
GOM_TRA_1PNPDE20040124_031924_000000422023_00362_09935_0001.N1	24-JAN-2004 03:19:24	Dark	42.000	77	Eps Cen	2.3030	28000.	84	9935	No
GOM_TRA_1PNPDE20040124_032230_000000432023_00362_09935_0002.N1	24-JAN-2004 03:22:30	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	9935	No
GOM_TRA_1PNPDE20040124_032359_000000472023_00362_09935_0003.N1	24-JAN-2004 03:23:59	Dark	46.500	99	Del Cen	2.5750	26000.	93	9935	No

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





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

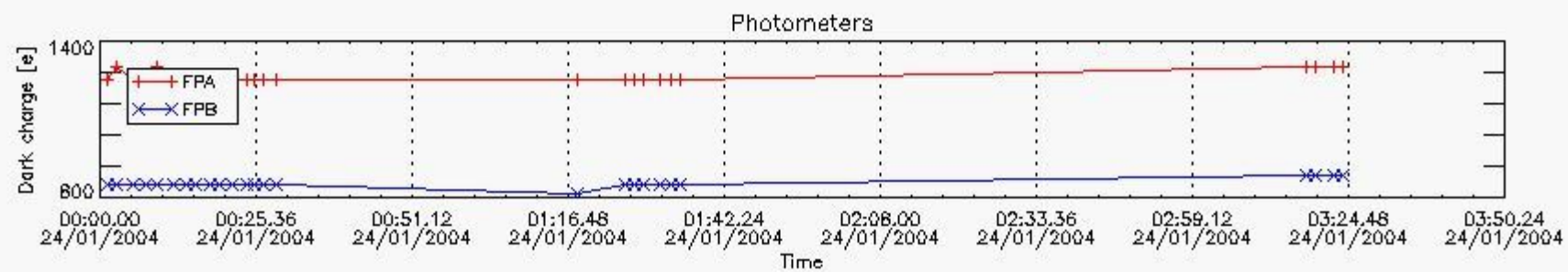
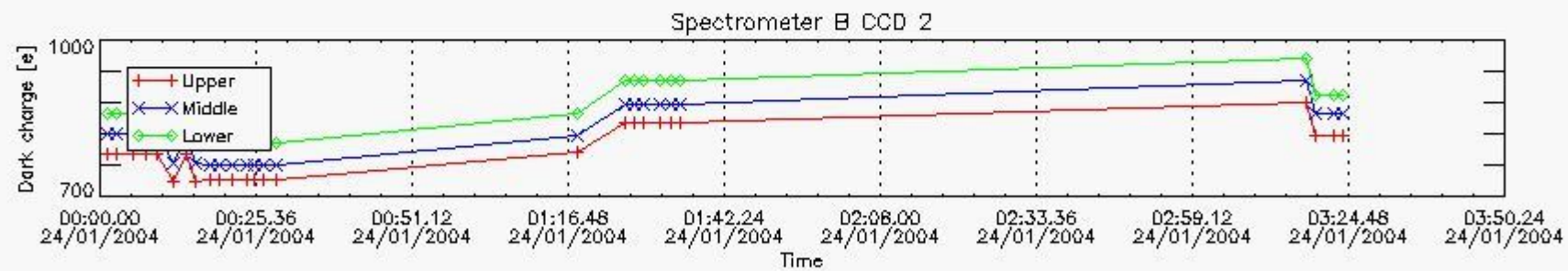
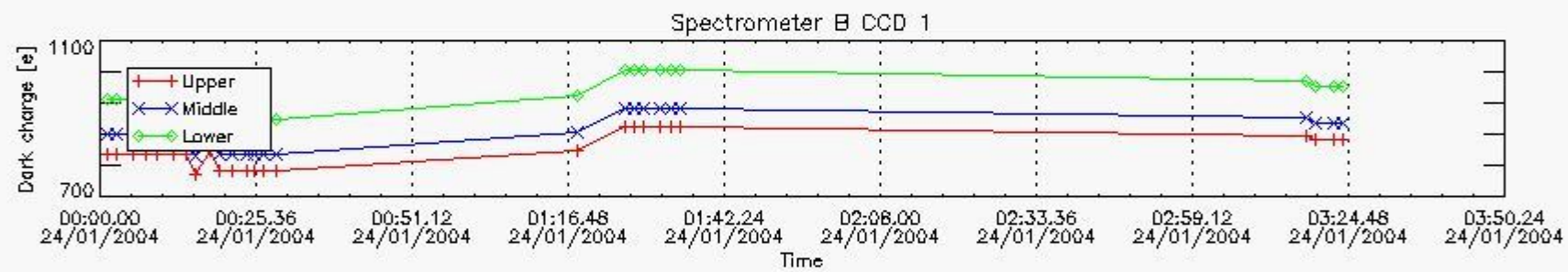
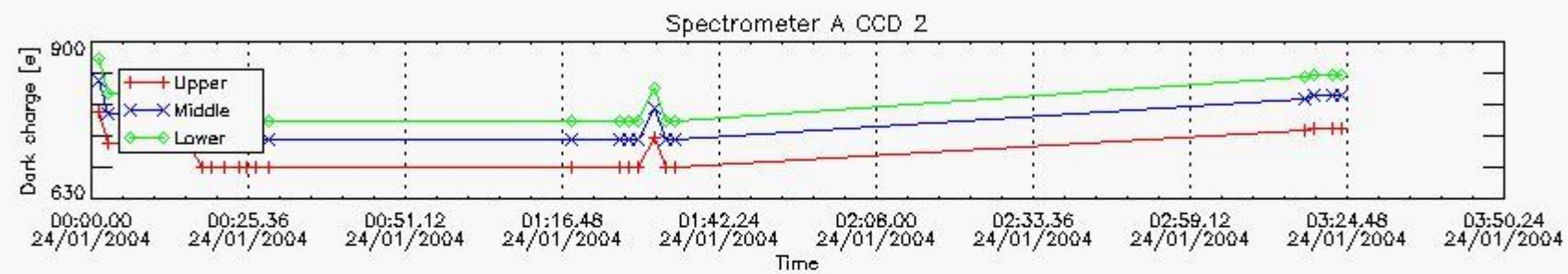
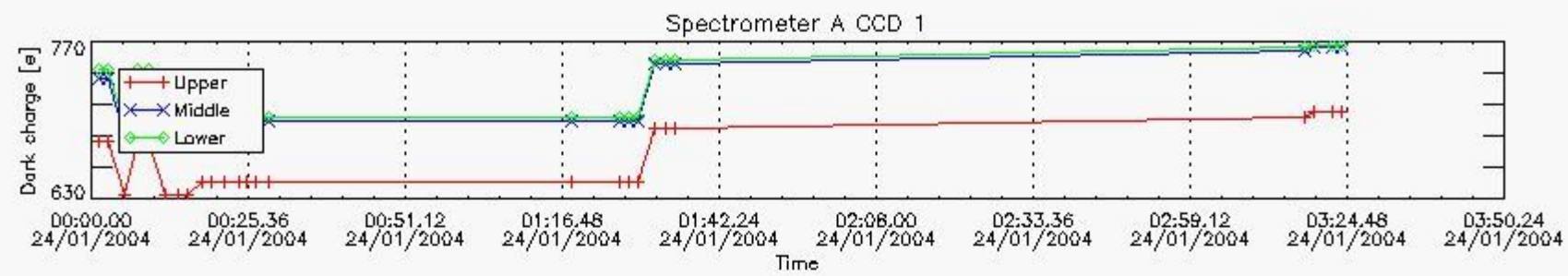
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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



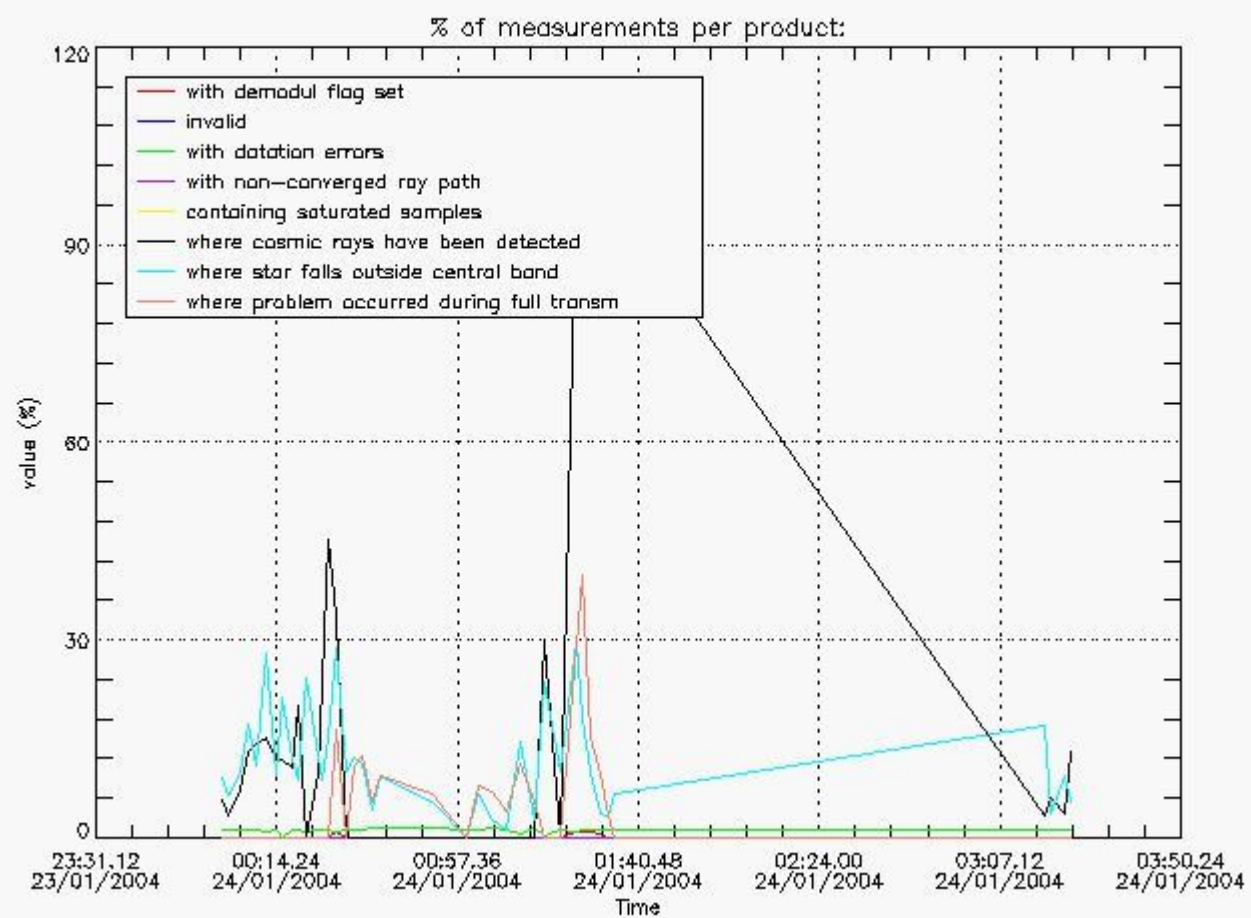


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	17.9487 %
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



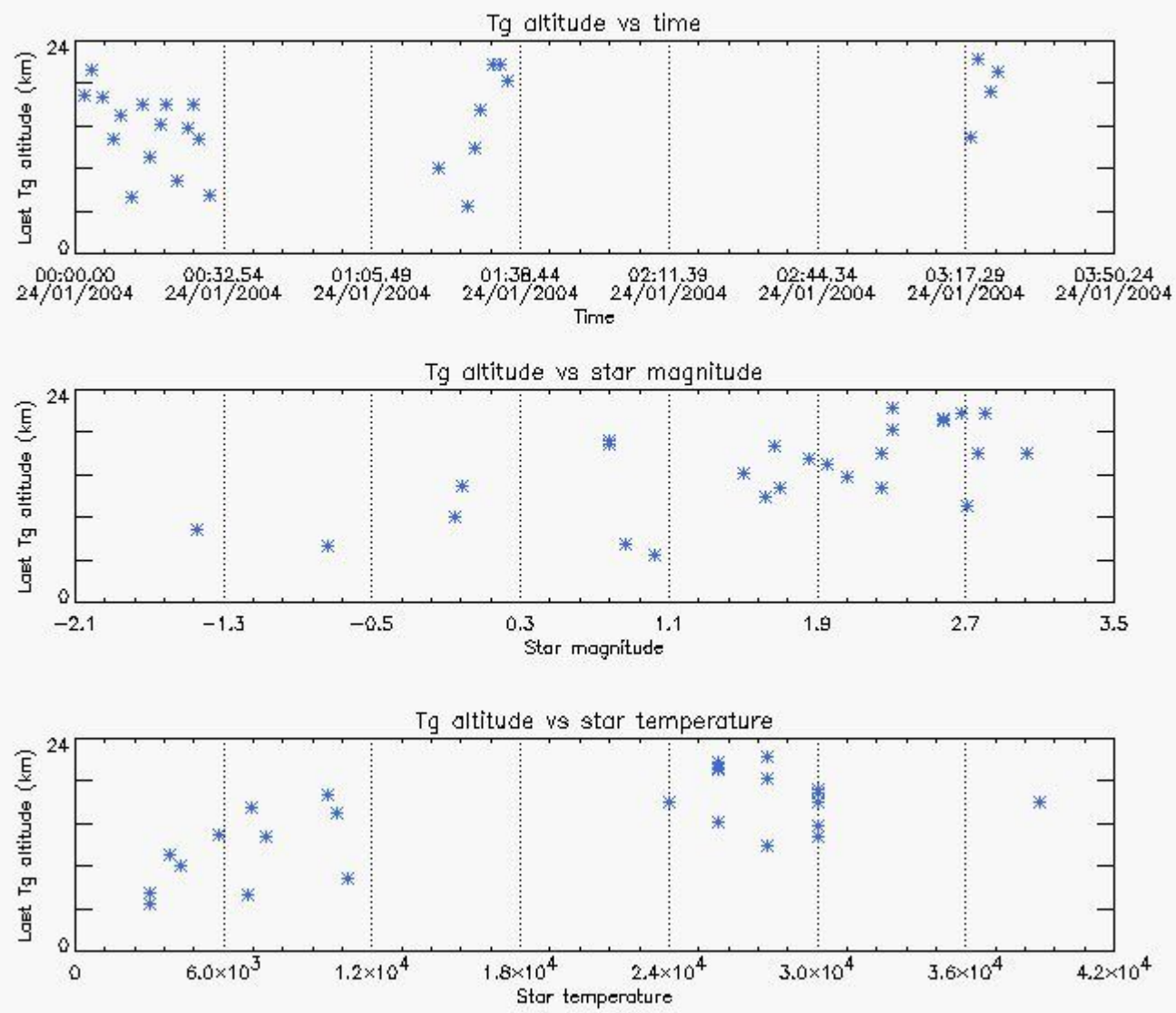
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.909	19.406
St. deviation:	4.9013	3.4747
Maximum:	21.918	24.447
Minimum:	5.2651	13.127
Number of data:	26.000	13.000

### 6.2 Plot for DARK limb products

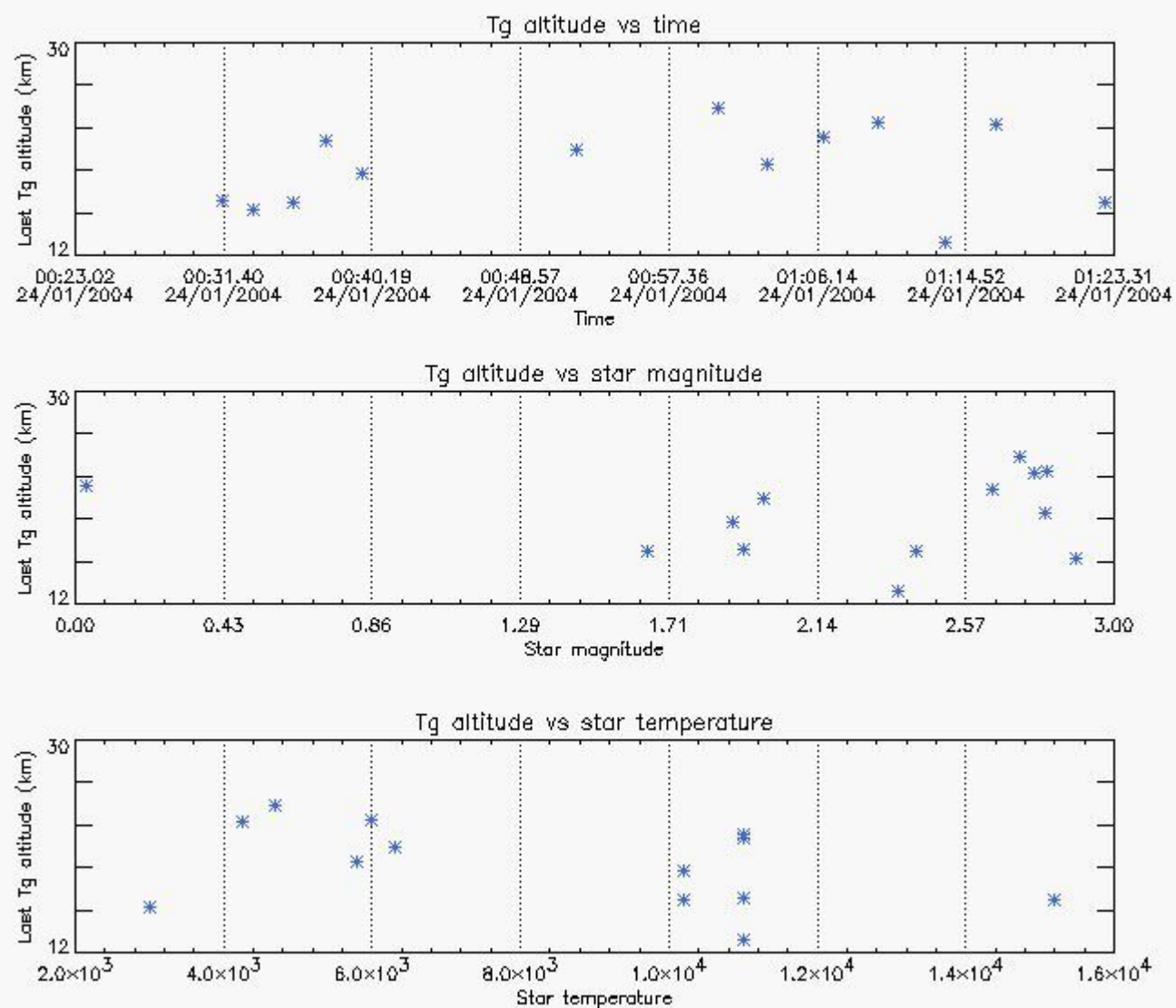
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



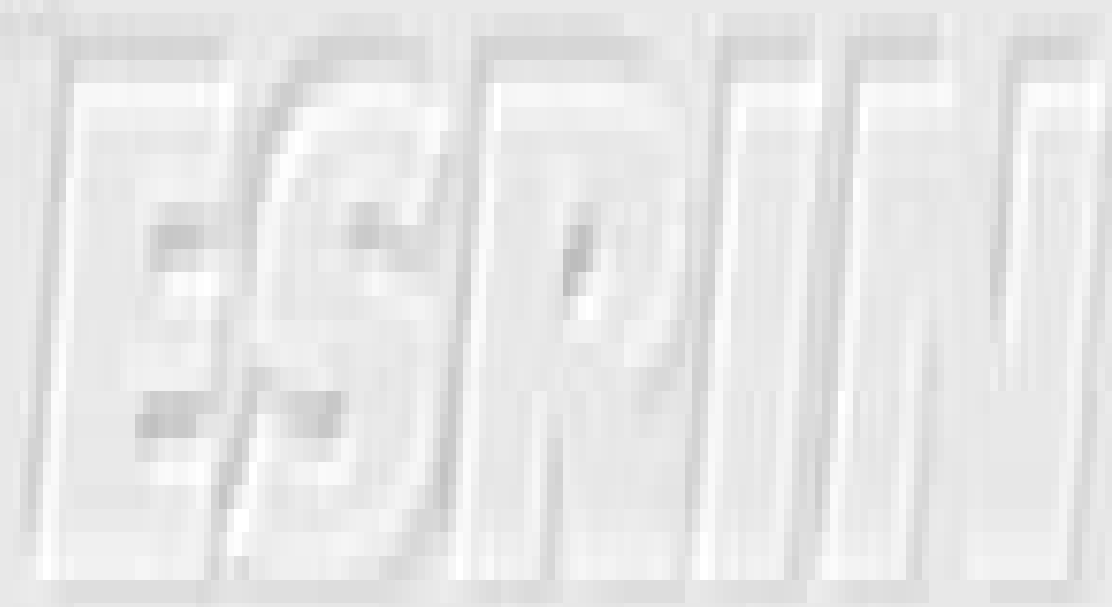
### Tangent altitude at which the star is lost



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

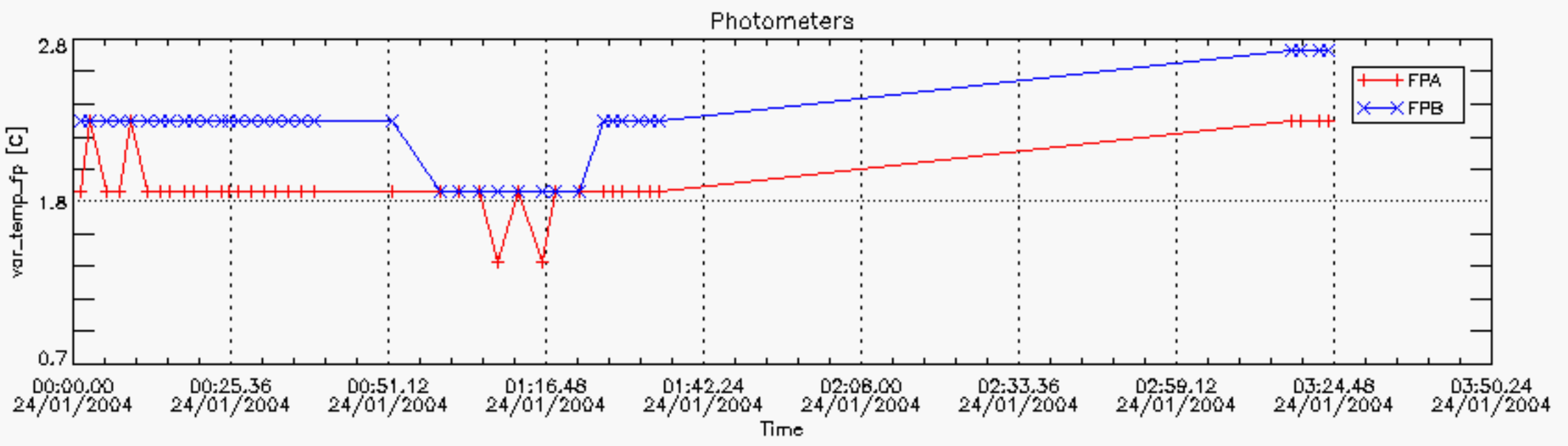
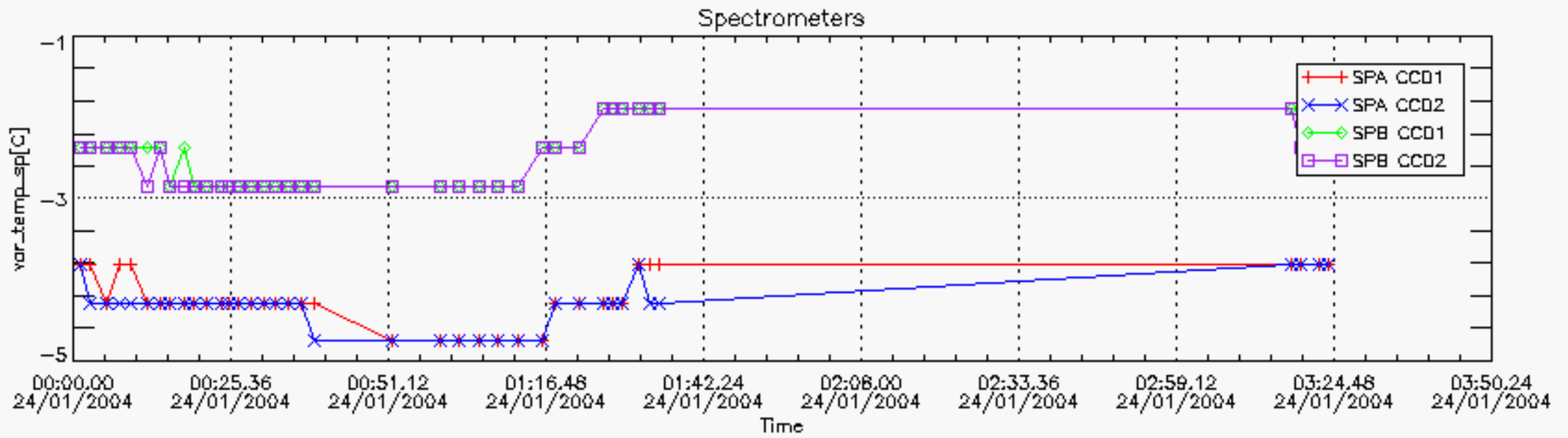
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

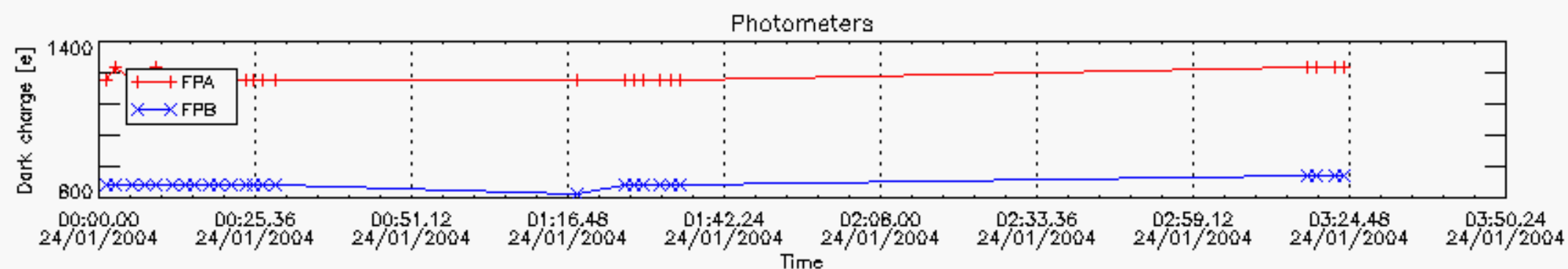
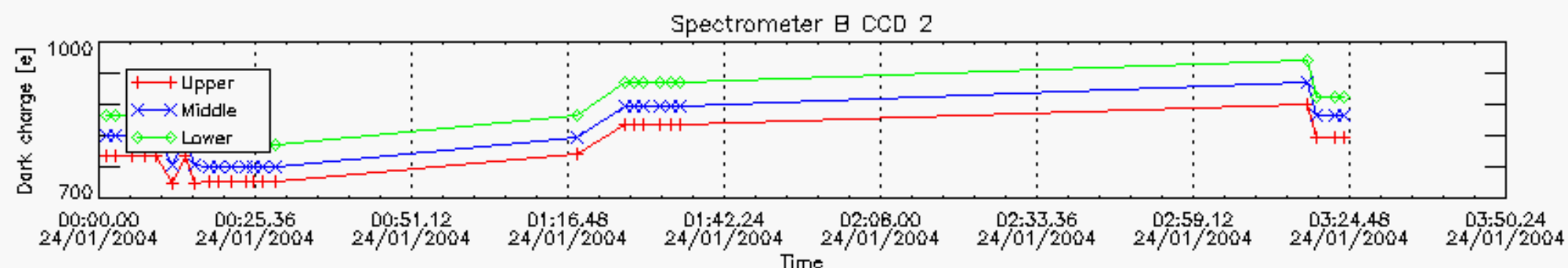
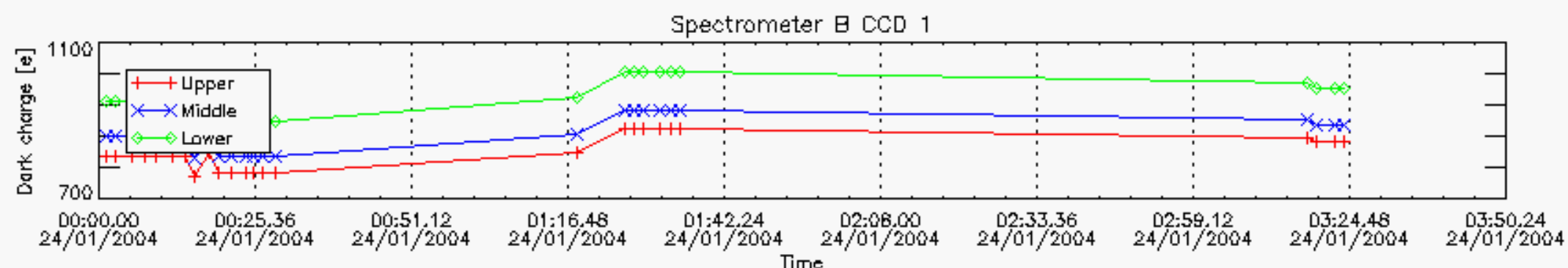
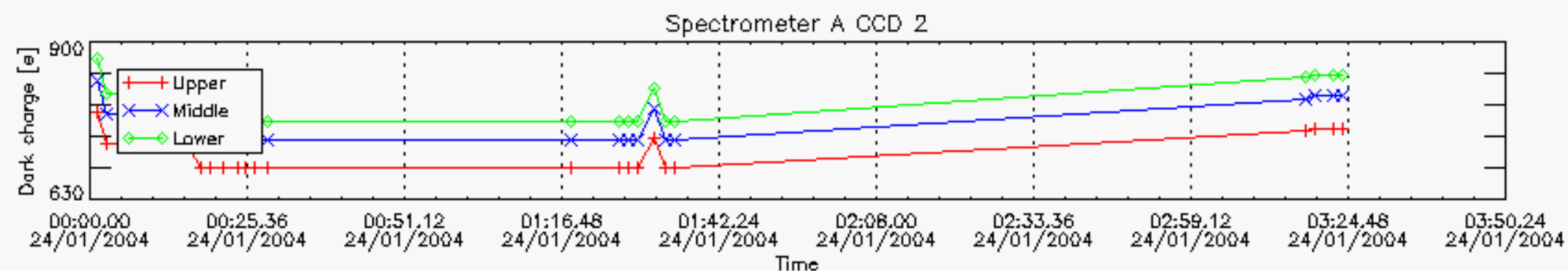
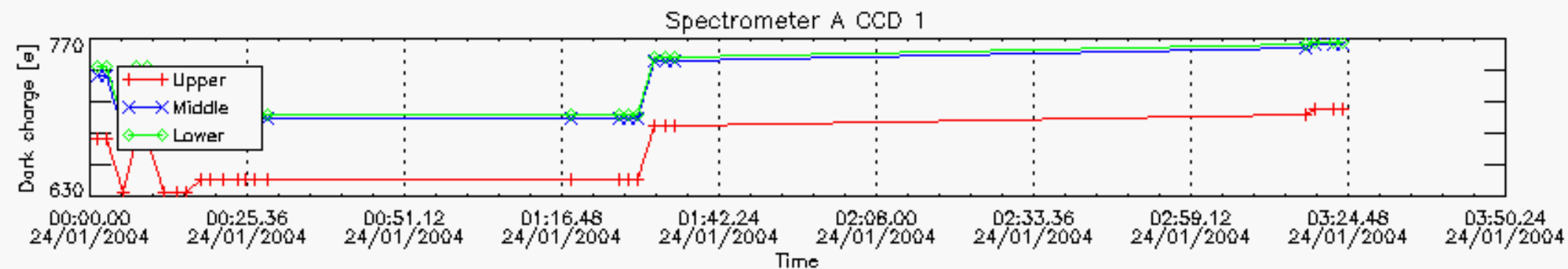
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.9	1446.2	1460.2	1446.6
St. deviation:	6.2279	10.586	6.5264	10.278
Maximum:	1625.0	1564.0	1502.0	1502.0
Minimum:	1431.0	1400.0	1433.0	1410.0
Number of data:	31300.	31300.	14050.	14050.





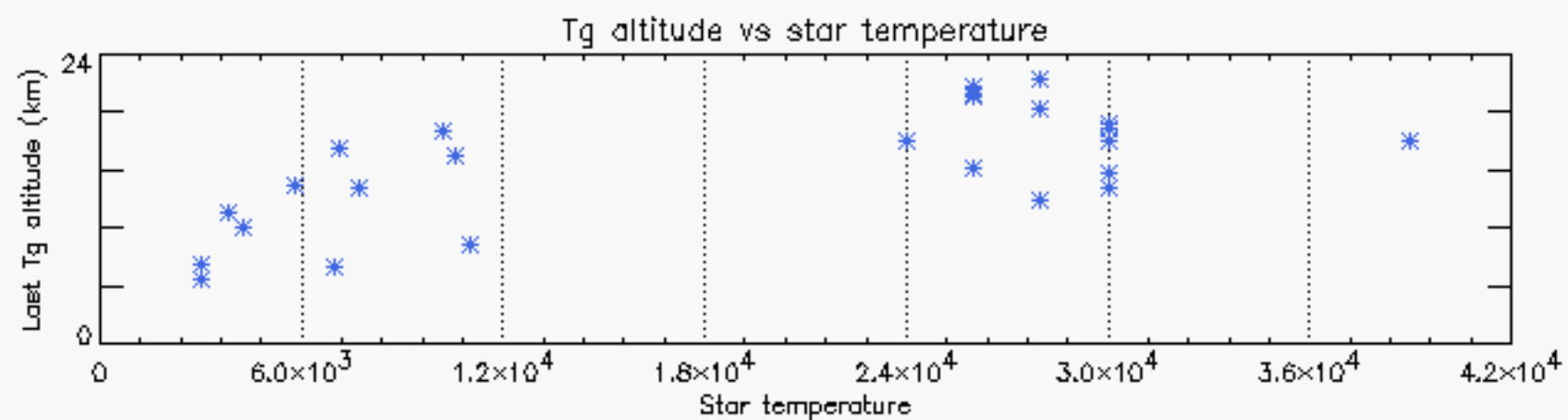
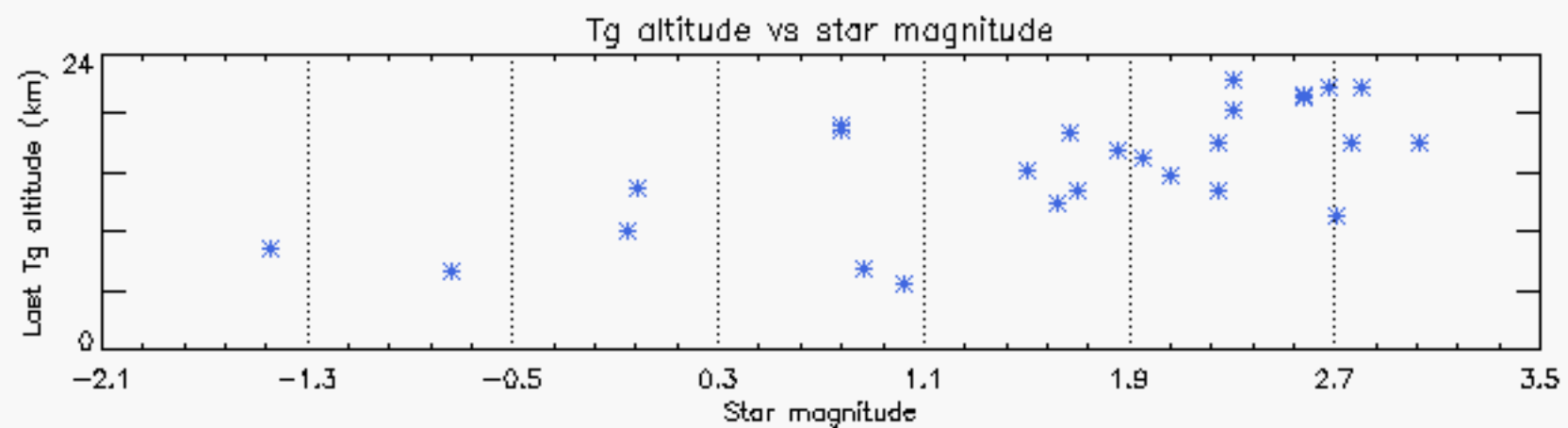
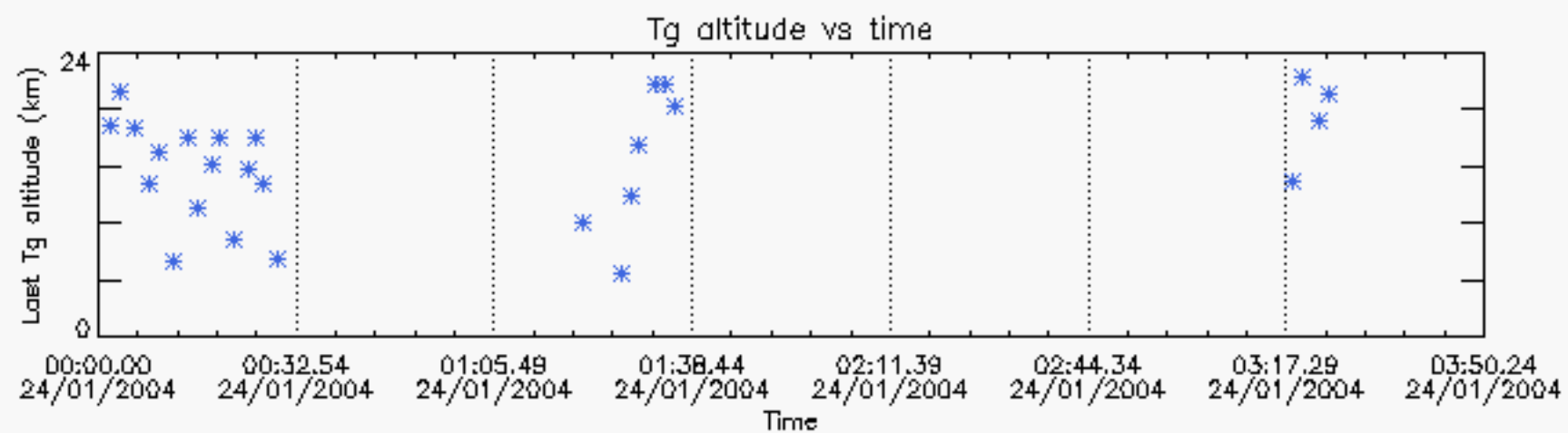






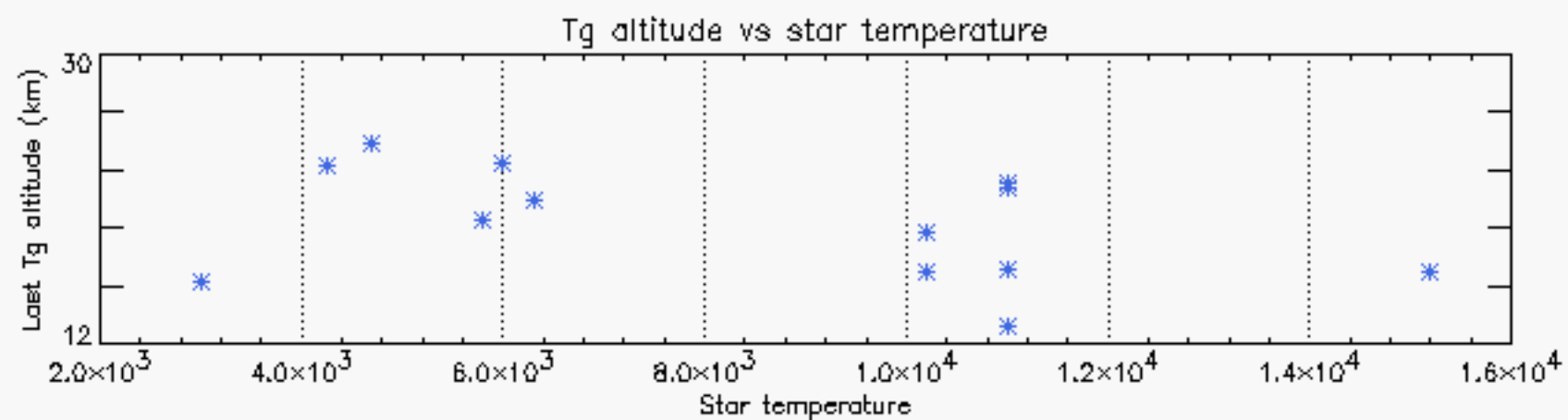
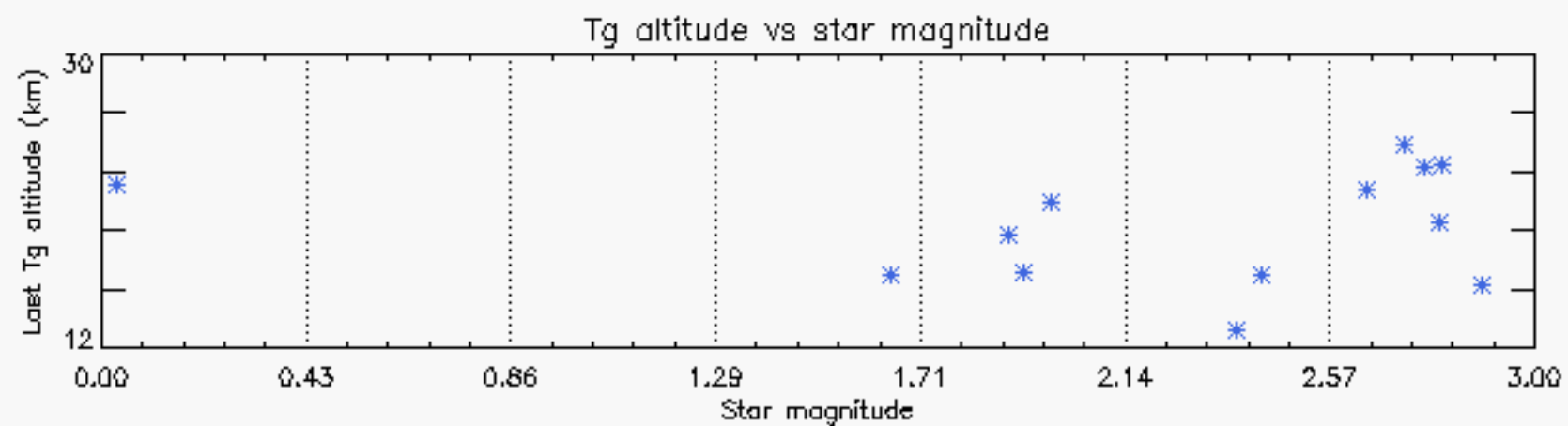
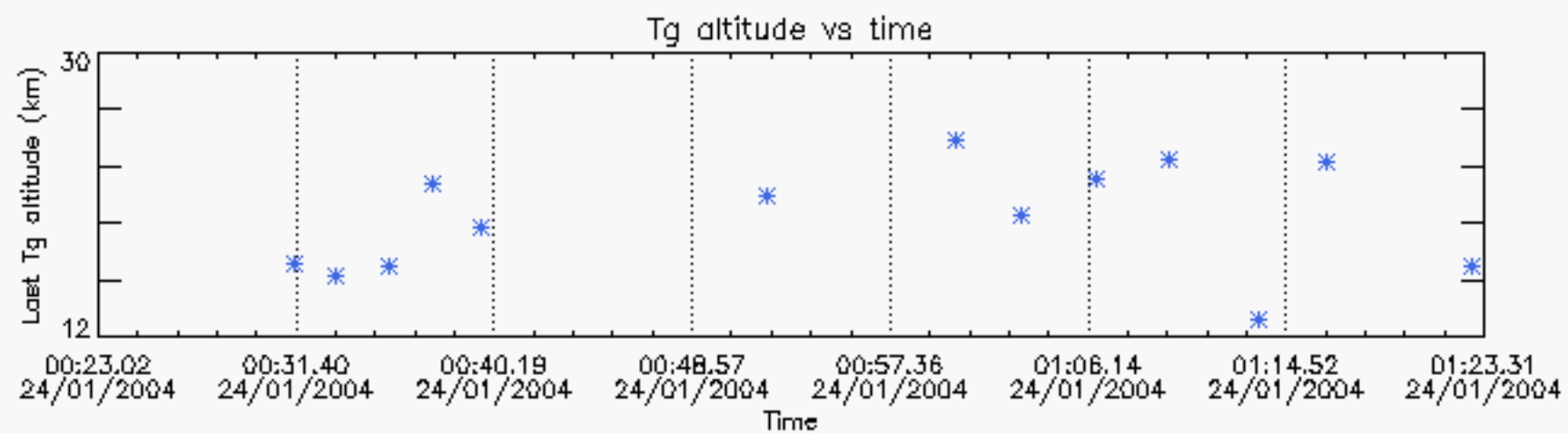


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040101\_054855\_000060682023\_00034\_09607\_0545.N1

1;	-4268.0;	01-JAN-2004	05:48:55;	Dark	;	45.5;	7;	19Bet Ori	;	0.10;	14000;occ;	91;	0;	9607
2;	-4156.2;	01-JAN-2004	05:50:47;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9607
3;	-3940.7;	01-JAN-2004	05:54:22;	Dark	;	82.0;	8;	10Alp CMI	;	0.40;	6500;occ;	164;	0;	9607
4;	-3806.3;	01-JAN-2004	05:56:37;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;occ;	100;	0;	9607
5;	-3708.3;	01-JAN-2004	05:58:15;	Bright;		47.0;	151;	13Mu Gem	;	2.89;	3000;occ;	94;	0;	9607
6;	-3565.2;	01-JAN-2004	06:00:38;	Bright;		39.5;	114;	3Iot Aur	;	2.69;	4600;occ;	79;	0;	9607
7;	-3468.9;	01-JAN-2004	06:02:14;	Bright;		38.0;	107;	37The Aur	;	2.65;	11000;occ;	76;	0;	9607
8;	-3344.2;	01-JAN-2004	06:04:19;	Bright;		41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	9607
9;	-3237.9;	01-JAN-2004	06:06:05;	Bright;		38.0;	35;	33Alp Per	;	1.79;	6250;occ;	76;	0;	9607
10;	-3161.0;	01-JAN-2004	06:07:22;	Bright;		38.0;	160;	23Gam Per	;	2.93;	4700;occ;	76;	0;	9607
11;	-2613.9;	01-JAN-2004	06:16:29;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	9607
12;	-2439.5;	01-JAN-2004	06:19:24;	Bright;		51.0;	36;	50Alp UMA	;	1.80;	6300;occ;	102;	0;	9607
13;	-2196.7;	01-JAN-2004	06:23:26;	Bright;		56.5;	87;	64Gam UMA	;	2.43;	11000;occ;	113;	0;	9607
14;	-2065.9;	01-JAN-2004	06:25:37;	Bright;		47.5;	55;	79Zet UMA	;	2.06;	10200;occ;	95;	0;	9607
15;	-1929.3;	01-JAN-2004	06:27:54;	Bright;		48.5;	39;	85Eta UMA	;	1.85;	24000;occ;	97;	0;	9607
16;	-1684.9;	01-JAN-2004	06:31:58;	Bright;		42.5;	180;	27Gam Boo	;	3.04;	8000;occ;	85;	0;	9607
17;	-1464.3;	01-JAN-2004	06:35:39;	Bright;		43.0;	83;		;	2.38;	11000;occ;	86;	0;	9607
18;	-1214.9;	01-JAN-2004	06:39:48;	Bright;		57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	9607
19;	-1008.4;	01-JAN-2004	06:43:15;	Bright;		36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;	9607
20;	-844.6;	01-JAN-2004	06:45:58;	Bright;		39.5;	104;	27Bet Lib	;	2.61;	13100;occ;	79;	0;	9607
21;	-685.5;	01-JAN-2004	06:48:37;	Dark	;	44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	9607
22;	-483.7;	01-JAN-2004	06:51:59;	Dark	;	69.5;	15;	67Alp Vir	;	0.98;	28000;occ;	139;	0;	9607
23;	-282.4;	01-JAN-2004	06:55:21;	Dark	;	38.5;	109;	Bet Lup	;	2.68;	26000;occ;	77;	0;	9607
24;	-194.7;	01-JAN-2004	06:56:48;	Dark	;	41.5;	78;	Alp Lup	;	2.30;	28000;occ;	83;	0;	9607
25;	-106.2;	01-JAN-2004	06:58:17;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	9607
26;	-2.7;	01-JAN-2004	07:00:00;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	9607
27;	226.9;	01-JAN-2004	07:03:50;	Dark	;	51.5;	12;	Alp1Cru	;	0.77;	30000;occ;	103;	0;	9608
28;	398.9;	01-JAN-2004	07:06:42;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9608
29;	545.2;	01-JAN-2004	07:09:08;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9608
30;	627.7;	01-JAN-2004	07:10:31;	Dark	;	44.0;	71;	Iot Car	;	2.25;	7700;occ;	88;	0;	9608
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32;	841.6;	01-JAN-2004	07:14:05;	Dark	;	59.0;	65;	Lam Vel	;	2.20;	4400;occ;	118;	0;	9608
33;	976.8;	01-JAN-2004	07:16:20;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	9608
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36;	1431.6;	01-JAN-2004	07:23:55;	Dark	;	46.5;	179;	240mi2CMA	;	3.03;	24000;occ;	93;	0;	9608
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32; 417.1; 05-JAN-2004 15:04:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9670
33; 566.4; 05-JAN-2004 15:06:36; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0; 9670
34; 657.5; 05-JAN-2004 15:08:07; Dark ; 48.0; 71; Iot Car ; 2.25; 7700;occ; 96; 0; 9670
35; 749.4; 05-JAN-2004 15:09:39; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0; 9670
36; 885.1; 05-JAN-2004 15:11:55; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0; 9670
37; 991.9; 05-JAN-2004 15:13:42; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0; 9670
38; 1075.0; 05-JAN-2004 15:15:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0; 9670
39; 1191.0; 05-JAN-2004 15:17:01; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0; 9670
40; 1352.2; 05-JAN-2004 15:19:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0; 9670

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2;	-4153.3;	06-JAN-2004	09:55:08;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	92;	0;	9681
3;	-4007.3;	06-JAN-2004	09:57:34;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	100;	0;	9681
4;	-3828.0;	06-JAN-2004	10:00:33;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	97;	0;	9681
5;	-3728.4;	06-JAN-2004	10:02:12;	Bright;		46.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	93;	0;	9681
6;	-3643.6;	06-JAN-2004	10:03:37;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	9681
7;	-3563.5;	06-JAN-2004	10:04:57;	Bright;		42.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	84;	0;	9681
8;	-3406.2;	06-JAN-2004	10:07:35;	Bright;		35.5;	149;	45Eps Per	;	2.89;	30000;	occ;	71;	0;	9681
9;	-3268.3;	06-JAN-2004	10:09:53;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9681
10;	-3135.1;	06-JAN-2004	10:12:06;	Bright;		37.5;	160;	23Gam Per	;	2.93;	4700;	occ;	75;	0;	9681
11;	-2616.5;	06-JAN-2004	10:20:44;	Bright;		40.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	80;	0;	9681
12;	-2487.9;	06-JAN-2004	10:22:53;	Bright;		49.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	99;	0;	9681
13;	-2357.2;	06-JAN-2004	10:25:04;	Bright;		44.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	89;	0;	9681
14;	-2247.4;	06-JAN-2004	10:26:53;	Bright;		57.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	114;	0;	9681
15;	-2113.5;	06-JAN-2004	10:29:07;	Bright;		38.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	76;	0;	9681
16;	-1977.9;	06-JAN-2004	10:31:23;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	75;	0;	9681
17;	-1707.9;	06-JAN-2004	10:35:53;	Bright;		65.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	130;	0;	9681
18;	-1447.2;	06-JAN-2004	10:40:14;	Bright;		47.5;	83;		;	2.38;	11000;	occ;	95;	0;	9681
19;	-1317.9;	06-JAN-2004	10:42:23;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	70;	0;	9681
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21;	-989.9;	06-JAN-2004	10:47:51;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;	occ;	76;	0;	9681
22;	-808.6;	06-JAN-2004	10:50:52;	Bright;		44.5;	104;	27Bet Lib	;	2.61;	13100;	occ;	89;	0;	9681
23;	-662.8;	06-JAN-2004	10:53:18;	Dark	;	46.0;	80;	7Del Sco	;	2.32;	30000;	occ;	92;	0;	9681
24;	-367.3;	06-JAN-2004	10:58:14;	Dark	;	76.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	152;	0;	9681
25;	-216.3;	06-JAN-2004	11:00:44;	Dark	;	55.0;	54;	5The Cen	;	2.06;	4500;	occ;	110;	0;	9681
26;	18.7;	06-JAN-2004	11:04:40;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9682
27;	163.9;	06-JAN-2004	11:07:05;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	9682
28;	265.0;	06-JAN-2004	11:08:46;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	86;	0;	9682
29;	420.5;	06-JAN-2004	11:11:21;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9682
30;	571.0;	06-JAN-2004	11:13:52;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;	occ;	79;	0;	9682
31;	665.2;	06-JAN-2004	11:15:26;	Dark	;	43.0;	71;	Iot Car	;	2.25;	7700;	occ;	86;	0;	9682
32;	753.6;	06-JAN-2004	11:16:54;	Dark	;	54.5;	41;	Eps Car	;	1.86;	4100;	occ;	109;	0;	9682
33;	892.4;	06-JAN-2004	11:19:13;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;	occ;	117;	0;	9682
34;	995.0;	06-JAN-2004	11:20:56;	Dark	;	48.5;	2;	Alp Car	;	-0.74;	7000;	occ;	97;	0;	9682
35;	1080.3;	06-JAN-2004	11:22:21;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;	occ;	95;	0;	9682
36;	1193.0;	06-JAN-2004	11:24:14;	Dark	;	52.0;	117;	Pi Pup	;	2.71;	3800;	occ;	104;	0;	9682
37;	1355.1;	06-JAN-2004	11:26:56;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	9682
38;	1447.1;	06-JAN-2004	11:28:28;	Dark	;	42.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	84;	0;	9682

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3;	-4588.7;	06-JAN-2004	16:30:16;	Dark	;	47.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	94;	0;	9685
4;	-4447.4;	06-JAN-2004	16:32:37;	Dark	;	56.0;	1;	9Alp CMA	;	-1.44;	11000;	occ;	112;	0;	9685
5;	-4259.7;	06-JAN-2004	16:35:45;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;	occ;	99;	0;	9685
6;	-4152.9;	06-JAN-2004	16:37:32;	Dark	;	48.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	97;	0;	9685
7;	-3981.0;	06-JAN-2004	16:40:24;	Dark	;	64.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	129;	0;	9685
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12;	-3405.7;	06-JAN-2004	16:49:59;	Bright;		37.5;	149;	45Eps Per	;	2.89;	30000;	occ;	75;	0;	9685
13;	-3267.1;	06-JAN-2004	16:52:17;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9685
14;	-3133.8;	06-JAN-2004	16:54:31;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;	occ;	74;	0;	9685
15;	-2614.1;	06-JAN-2004	17:03:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	9685
16;	-2490.7;	06-JAN-2004	17:05:14;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	102;	0;	9685
17;	-2355.0;	06-JAN-2004	17:07:30;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	79;	0;	9685
18;	-2250.6;	06-JAN-2004	17:09:14;	Bright;		53.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	106;	0;	9685
19;	-2113.2;	06-JAN-2004	17:11:31;	Bright;		37.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	75;	0;	9685
20;	-1979.6;	06-JAN-2004	17:13:45;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	77;	0;	9685
21;	-1709.0;	06-JAN-2004	17:18:16;	Bright;		69.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	138;	0;	9685
22;	-1446.7;	06-JAN-2004	17:22:38;	Bright;		64.0;	83;		;	2.38;	11000;	occ;	128;	0;	9685
23;	-1318.5;	06-JAN-2004	17:24:46;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9685
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27;	-661.5;	06-JAN-2004	17:35:43;	Dark	;	43.5;	80;	7Del Sco	;	2.32;	30000;	occ;	87;	0;	9685
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9; -3982.2; 06-JAN-2004 18:20:58; Dark ; 67.5; 8; 10Alp Cmi ; 0.40; 6500;occ; 135; 0; 9686
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28; -805.9; 06-JAN-2004 19:13:55; Dark ; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0; 9686
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33; 168.8; 06-JAN-2004 19:30:09; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0; 9687
34; 266.6; 06-JAN-2004 19:31:47; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0; 9687
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6; -3642.8; 07-JAN-2004 11:12:37; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0; 9696
7; -3559.0; 07-JAN-2004 11:14:00; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9696
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35; 1092.6; 08-JAN-2004 06:58:07; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0; 9708
36; 1204.5; 08-JAN-2004 06:59:59; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0; 9708
37; 1364.6; 08-JAN-2004 07:02:39; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0; 9708
38; 1453.0; 08-JAN-2004 07:04:08; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0; 9708
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13;-2358.0; 08-JAN-2004 07:41:13; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9708
14;-2269.0; 08-JAN-2004 07:42:42; Bright; 56.5; 87; 64Gam UMa ; 2.43; 11000;occ; 113; 0; 9708
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17;-1714.8; 08-JAN-2004 07:51:56; Bright; 71.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 142; 0; 9708
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35; 1204.8; 08-JAN-2004 08:40:35; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0; 9709
36; 1364.6; 08-JAN-2004 08:43:15; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0; 9709
37; 1453.2; 08-JAN-2004 08:44:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0; 9709
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8;-3397.2; 08-JAN-2004 09:04:29; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0; 9709
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3;	-4829.7;	08-JAN-2004	18:44:12;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;	occ;	83;	0;	9715
4;	-4670.1;	08-JAN-2004	18:46:52;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	9715
5;	-4582.1;	08-JAN-2004	18:48:20;	Dark	;	43.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	87;	0;	9715
6;	-4442.9;	08-JAN-2004	18:50:39;	Dark	;	51.0;	1;	9Alp CMa	;	-1.44;	11000;	occ;	102;	0;	9715
7;	-4253.0;	08-JAN-2004	18:53:49;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;	occ;	104;	0;	9715
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12;	-3642.0;	08-JAN-2004	19:04:00;	Bright	;	38.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	77;	0;	9715
13;	-3556.7;	08-JAN-2004	19:05:25;	Bright	;	39.5;	114;	3Iot Aur	;	2.69;	4600;	occ;	79;	0;	9715
14;	-3461.0;	08-JAN-2004	19:07:01;	Bright	;	51.0;	24;	66Alp Gem	;	1.58;	10200;	occ;	102;	0;	9715
15;	-3357.2;	08-JAN-2004	19:08:45;	Bright	;	41.0;	42;	34Bet Aur	;	1.90;	10200;	occ;	82;	0;	9715
16;	-3257.5;	08-JAN-2004	19:10:25;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9715
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18;	-2613.4;	08-JAN-2004	19:21:09;	Bright	;	37.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	74;	0;	9715
19;	-2512.0;	08-JAN-2004	19:22:50;	Bright	;	46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	9715
20;	-2359.9;	08-JAN-2004	19:25:22;	Bright	;	41.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	82;	0;	9715
21;	-2174.1;	08-JAN-2004	19:28:28;	Bright	;	50.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	101;	0;	9715
22;	-1972.9;	08-JAN-2004	19:31:49;	Bright	;	38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	9715
23;	-1716.4;	08-JAN-2004	19:36:06;	Bright	;	72.5;	152;	12Alp2CVn	;	2.89;	11000;	occ;	145;	0;	9715
24;	-1440.2;	08-JAN-2004	19:40:42;	Bright	;	51.0;	83;		;	2.38;	11000;	occ;	102;	0;	9715
25;	-1313.8;	08-JAN-2004	19:42:48;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9715
26;	-1142.3;	08-JAN-2004	19:45:40;	Bright	;	73.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	146;	0;	9715
27;	-978.7;	08-JAN-2004	19:48:23;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9715
28;	-789.1;	08-JAN-2004	19:51:33;	Dark	;	46.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	92;	0;	9715
29;	-650.4;	08-JAN-2004	19:53:52;	Dark	;	46.5;	80;	7Del Sco	;	2.32;	30000;	occ;	93;	0;	9715
30;	-305.3;	08-JAN-2004	19:59:37;	Dark	;	82.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	165;	0;	9715
31;	-140.9;	08-JAN-2004	20:02:21;	Dark	;	44.0;	78;	Alp Lup	;	2.30;	28000;	occ;	88;	0;	9715
32;	34.3;	08-JAN-2004	20:05:16;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9716
33;	225.4;	08-JAN-2004	20:08:27;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;	occ;	85;	0;	9716
34;	362.4;	08-JAN-2004	20:10:44;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9716
35;	483.3;	08-JAN-2004	20:12:45;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;	occ;	78;	0;	9716
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37;	683.8;	08-JAN-2004	20:16:06;	Dark	;	41.5;	71;	Iot Car	;	2.25;	7700;	occ;	83;	0;	9716
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2;	-4940.4;	08-JAN-2004	20:22:57;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;	occ;	96;	0;	9716
3;	-4829.1;	08-JAN-2004	20:24:49;	Dark	;	47.5;	117;	Pi Pup	;	2.71;	3800;	occ;	95;	0;	9716
4;	-4669.5;	08-JAN-2004	20:27:28;	Dark	;	49.5;	23;	21Eps CMa	;	1.50;	26000;	occ;	99;	0;	9716
5;	-4581.5;	08-JAN-2004	20:28:56;	Dark	;	44.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	89;	0;	9716
6;	-4442.7;	08-JAN-2004	20:31:15;	Dark	;	48.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	97;	0;	9716
7;	-4252.2;	08-JAN-2004	20:34:26;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;	occ;	99;	0;	9716
8;	-4147.0;	08-JAN-2004	20:36:11;	Dark	;	44.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	88;	0;	9716
9;	-3994.7;	08-JAN-2004	20:38:43;	Dark	;	64.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	129;	0;	9716
10;	-3835.4;	08-JAN-2004	20:41:22;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	94;	0;	9716
11;	-3734.7;	08-JAN-2004	20:43:03;	Bright	;	44.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	88;	0;	9716
12;	-3641.7;	08-JAN-2004	20:44:36;	Bright	;	37.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	75;	0;	9716
13;	-3556.3;	08-JAN-2004	20:46:02;	Bright	;	38.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	76;	0;	9716
14;	-3461.9;	08-JAN-2004	20:47:36;	Bright	;	48.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	97;	0;	9716
15;	-3357.0;	08-JAN-2004	20:49:21;	Bright	;	38.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	77;	0;	9716
16;	-3257.1;	08-JAN-2004	20:51:01;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9716
17;	-3121.8;	08-JAN-2004	20:53:16;	Bright	;	38.5;	160;	23Gam Per	;	2.93;	4700;	occ;	77;	0;	9716
18;	-2613.2;	08-JAN-2004	21:01:45;	Bright	;	36.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	72;	0;	9716
19;	-2512.4;	08-JAN-2004	21:03:25;	Bright	;	51.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	102;	0;	9716
20;	-2359.4;	08-JAN-2004	21:05:58;	Bright	;	40.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	80;	0;	9716
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27; 247.1; 11-JAN-2004 08:30:22; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0; 9752
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36; 1375.0; 11-JAN-2004 08:49:10; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0; 9752
37; 1461.6; 11-JAN-2004 08:50:36; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0; 9752
38; 1598.7; 11-JAN-2004 08:52:53; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0; 9752

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3;	-4244.9;	11-JAN-2004	10:36:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	9753
4;	-4141.3;	11-JAN-2004	10:38:25;	Dark	;	40.5;	30;	46Eps Ori	;	1.69;	30000;occ;	81;	0;	9753
5;	-4006.3;	11-JAN-2004	10:40:40;	Dark	;	58.5;	8;	10Alp CMi	;	0.40;	6500;occ;	117;	0;	9753
6;	-3840.9;	11-JAN-2004	10:43:26;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	9753
7;	-3739.5;	11-JAN-2004	10:45:07;	Bright;		42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	9753
8;	-3639.1;	11-JAN-2004	10:46:47;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9753
9;	-3550.4;	11-JAN-2004	10:48:16;	Bright;		38.0;	114;	3Iot Aur	;	2.69;	4600;occ;	76;	0;	9753
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11;	-3243.7;	11-JAN-2004	10:53:23;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	9753
12;	-3105.7;	11-JAN-2004	10:55:41;	Bright;		36.5;	160;	23Gam Per	;	2.93;	4700;occ;	73;	0;	9753
13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
14;	-2509.2;	11-JAN-2004	11:05:37;	Bright;		53.0;	82;	48Bet UMA	;	2.37;	10600;occ;	106;	0;	9753
15;	-2364.3;	11-JAN-2004	11:08:02;	Bright;		40.0;	60;	7Bet UMi	;	2.08;	3950;occ;	80;	0;	9753
16;	-2194.7;	11-JAN-2004	11:10:52;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9753
17;	-1968.1;	11-JAN-2004	11:14:38;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	9753
18;	-1787.9;	11-JAN-2004	11:17:39;	Bright;		35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	9753
19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
20;	-1430.4;	11-JAN-2004	11:23:36;	Bright;		54.5;	83;		;	2.38;	11000;occ;	109;	0;	9753
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	9753
22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
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25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
27;	-118.7;	11-JAN-2004	11:45:28;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	9753
28;	247.8;	11-JAN-2004	11:51:34;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	9754
29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
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32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	9754
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3;	-4573.6;	11-JAN-2004	17:13:37;	Dark	;	41.5;	179;	240mi2CMA	;	3.03;	24000;occ;	83;	0;	9757
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5;	-4244.8;	11-JAN-2004	17:19:05;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	9757
6;	-4141.4;	11-JAN-2004	17:20:49;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9757
7;	-4007.3;	11-JAN-2004	17:23:03;	Dark	;	60.0;	8;	10Alp CMi	;	0.40;	6500;occ;	120;	0;	9757
8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
9;	-3740.1;	11-JAN-2004	17:27:30;	Bright;		43.5;	151;	13Mu Gem	;	2.89;	3000;occ;	87;	0;	9757
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12;	-3361.7;	11-JAN-2004	17:33:48;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	9757
13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
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15;	-2612.7;	11-JAN-2004	17:46:18;	Bright;		39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;	9757
16;	-2512.9;	11-JAN-2004	17:47:57;	Bright;		55.0;	82;	48Bet UMA	;	2.37;	10600;occ;	110;	0;	9757
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18;	-2197.4;	11-JAN-2004	17:53:13;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9757
19;	-1967.8;	11-JAN-2004	17:57:02;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	9757
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21;	-1683.7;	11-JAN-2004	18:01:47;	Bright;		49.5;	180;	27Gam Boo	;	3.04;	8000;occ;	99;	0;	9757
22;	-1430.0;	11-JAN-2004	18:06:00;	Bright;		54.0;	83;		;	2.38;	11000;occ;	108;	0;	9757
23;	-1305.9;	11-JAN-2004	18:08:04;	Bright;		34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	9757
24;	-1105.4;	11-JAN-2004	18:11:25;	Dark	;	84.5;	111;	8Eta Boo	;	2.68;	6000;occ;	169;	0;	9757
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26;	-762.4;	11-JAN-2004	18:17:08;	Dark	;	48.0;	104;	27Bet Lib	;	2.61;	13100;occ;	96;	0;	9757
27;	-610.1;	11-JAN-2004	18:19:40;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;	9757
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7;-3641.4; 31-JAN-2004 11:58:34; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;10040
8;-3473.1; 31-JAN-2004 12:01:23; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;10040
9;-3348.0; 31-JAN-2004 12:03:28; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;10040
10;-2769.0; 31-JAN-2004 12:13:07; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;10040
11;-2609.8; 31-JAN-2004 12:15:46; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;10040
12;-2420.7; 31-JAN-2004 12:18:55; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10040
13;-2251.1; 31-JAN-2004 12:21:45; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;10040
14;-2138.8; 31-JAN-2004 12:23:37; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;10040
15;-1950.7; 31-JAN-2004 12:26:45; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;10040
16;-1734.6; 31-JAN-2004 12:30:21; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;10040
17;-1553.0; 31-JAN-2004 12:33:23; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10040
18;-1312.8; 31-JAN-2004 12:37:23; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10040
19;-1116.9; 31-JAN-2004 12:40:39; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;10040
20; -913.2; 31-JAN-2004 12:44:02; Dark ; 71.5; 102; 24Alp Ser ; 2.60; 4250;occ; 143; 0;10040
21; -730.8; 31-JAN-2004 12:47:05; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;10040
22; -564.3; 31-JAN-2004 12:49:51; Dark ; 42.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 85; 0;10040
23; -474.8; 31-JAN-2004 12:51:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;10040
24; -336.0; 31-JAN-2004 12:53:40; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;10040
25; -216.2; 31-JAN-2004 12:55:39; Dark ; 70.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 140; 0;10040
26; 3.3; 31-JAN-2004 12:59:19; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;10041
27; 185.7; 31-JAN-2004 13:02:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;10041
28; 271.7; 31-JAN-2004 13:03:47; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10041
29; 461.2; 31-JAN-2004 13:06:57; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10041
30; 579.3; 31-JAN-2004 13:08:55; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;10041
31; 674.6; 31-JAN-2004 13:10:30; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;10041
32; 870.1; 31-JAN-2004 13:13:46; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;10041
33; 1072.4; 31-JAN-2004 13:17:08; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;10041
34; 1200.1; 31-JAN-2004 13:19:16; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;10041
35; 1282.9; 31-JAN-2004 13:20:38; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10041
36; 1429.2; 31-JAN-2004 13:23:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;10041
37; 1509.9; 31-JAN-2004 13:24:26; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;10041

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