

GOMOS Daily Report 04-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	08JAN2004 06:51:27
Data source version	<Any version>
Start time of products	04-JAN-2004 (04JAN2004 00:00:00)
Stop time of products	05-JAN-2004 (05JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	33
Nb of prods with errors	0

2. Summary of products arrived in PCF

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

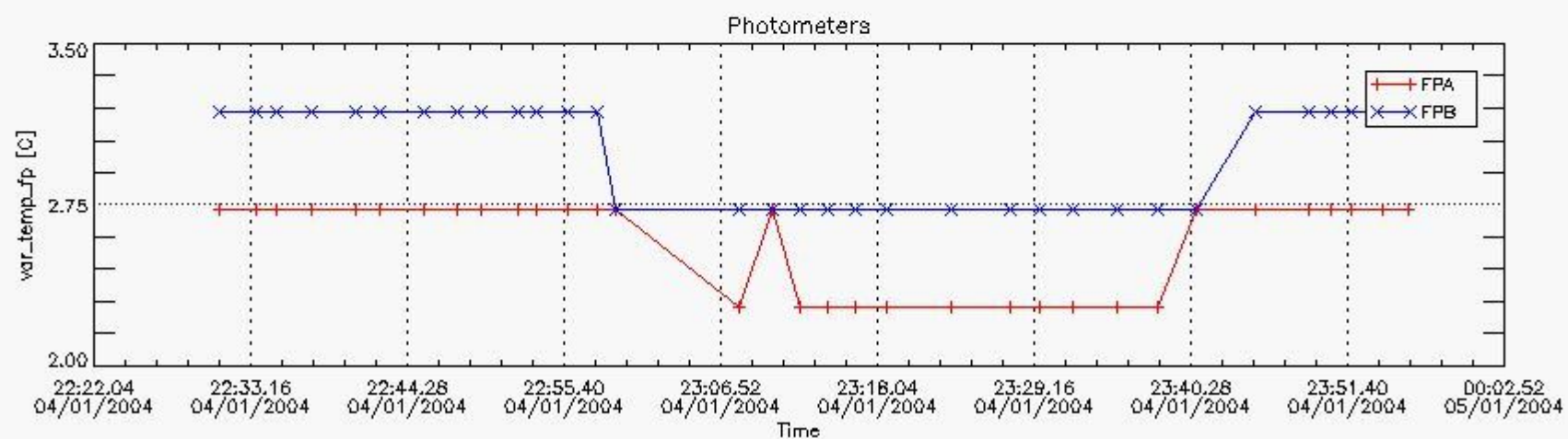
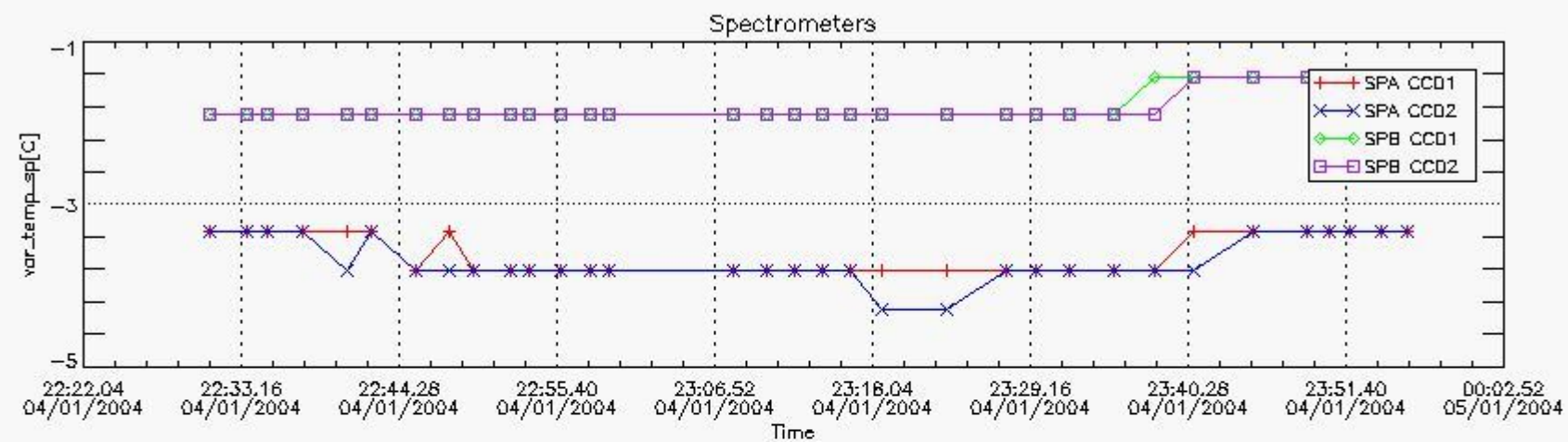
[2.2 Summary of processed GOM_TRA_1P products.](#)

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_1PNPDE20040104_223058_000000482023_00087_09660_0000.N1	04-JAN-2004 22:30:58	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	9660	No
GOM_TRA_1PNPDE20040104_223342_000000482023_00087_09660_0001.N1	04-JAN-2004 22:33:42	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	9660	No
GOM_TRA_1PNPDE20040104_223511_000000462023_00087_09660_0002.N1	04-JAN-2004 22:35:11	Dark	46.000	179	24Omi2CMa	3.0320	24000.	92	9660	No
GOM_TRA_1PNPDE20040104_223736_000000512023_00087_09660_0003.N1	04-JAN-2004 22:37:36	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	9660	No
GOM_TRA_1PNPDE20040104_224045_000000522023_00087_09660_0004.N1	04-JAN-2004 22:40:45	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	9660	No
GOM_TRA_1PNPDE20040104_224231_000000462023_00087_09660_0005.N1	04-JAN-2004 22:42:31	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	9660	No
GOM_TRA_1PNPDE20040104_224537_000000762023_00087_09660_0006.N1	04-JAN-2004 22:45:37	Dark	76.000	8	10Alp CMI	0.40000	6500.0	152	9660	No
GOM_TRA_1PNPDE20040104_224803_000000482023_00087_09660_0007.N1	04-JAN-2004 22:48:03	Dark	47.500	44	24Gam Gem	1.9280	11000.	95	9660	No
GOM_TRA_1PNPDE20040104_224942_000000502023_00087_09660_0008.N1	04-JAN-2004 22:49:42	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	9660	No
GOM_TRA_1PNPDE20040104_225224_000000382023_00087_09660_0009.N1	04-JAN-2004 22:52:24	Bright	38.000	114	31ot Aur	2.6930	4600.0	76	9660	No
GOM_TRA_1PNPDE20040104_225344_000000402023_00087_09660_0010.N1	04-JAN-2004 22:53:44	Bright	39.500	107	37The Aur	2.6490	11000.	79	9660	No
GOM_TRA_1PNPDE20040104_225558_000000432023_00087_09660_0011.N1	04-JAN-2004 22:55:58	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	9660	No
GOM_TRA_1PNPDE20040104_225804_000000392023_00087_09660_0012.N1	04-JAN-2004 22:58:04	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	9660	No
GOM_TRA_1PNPDE20040104_225922_000000402023_00087_09660_0013.N1	04-JAN-2004 22:59:22	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	9660	No
GOM_TRA_1PNPDE20040104_230812_000000372023_00087_09660_0014.N1	04-JAN-2004 23:08:12	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	9660	No
GOM_TRA_1PNPDE20040104_231033_000000512023_00087_09660_0015.N1	04-JAN-2004 23:10:33	Bright	51.000	36	50Alp UMa	1.8000	6300.0	102	9660	No
GOM_TRA_1PNPDE20040104_231234_000000412023_00087_09660_0016.N1	04-JAN-2004 23:12:34	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9660	No
GOM_TRA_1PNPDE20040104_231435_000000572023_00087_09660_0017.N1	04-JAN-2004 23:14:35	Bright	57.000	87	64Gam UMa	2.4330	11000.	114	9660	No
GOM_TRA_1PNPDE20040104_231630_000000412023_00087_09660_0018.N1	04-JAN-2004 23:16:30	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	9660	No
GOM_TRA_1PNPDE20040104_231845_000000382023_00087_09660_0019.N1	04-JAN-2004 23:18:45	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	9660	No
GOM_TRA_1PNPDE20040104_232322_000000662023_00087_09660_0020.N1	04-JAN-2004 23:23:22	Bright	66.000	152	12Alp2CVn	2.8900	11000.	132	9660	No
GOM_TRA_1PNPDE20040104_232734_000000482023_00087_09660_0021.N1	04-JAN-2004 23:27:34	Bright	48.000	83		2.3780	11000.	96	9660	No
GOM_TRA_1PNPDE20040104_232943_000000382023_00087_09660_0022.N1	04-JAN-2004 23:29:43	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	9660	No
GOM_TRA_1PNPDE20040104_233204_000000602023_00087_09660_0023.N1	04-JAN-2004 23:32:04	Bright	59.500	111	8Eta Boo	2.6800	6000.0	119	9660	No
GOM_TRA_1PNPDE20040104_233511_000000522023_00087_09660_0024.N1	04-JAN-2004 23:35:11	Bright	52.000	120	1Del Oph	2.7340	3200.0	104	9660	No
GOM_TRA_1PNPDE20040104_233806_000000442023_00087_09660_0025.N1	04-JAN-2004 23:38:06	Bright	43.500	104	27Bet Lib	2.6140	13100.	87	9660	No
GOM_TRA_1PNPDE20040104_234053_000000472023_00087_09660_0026.N1	04-JAN-2004 23:40:53	Dark	46.500	122	9Alp2Lib	2.7470	9700.0	93	9660	No
GOM_TRA_1PNPDE20040104_234503_000000892023_00087_09660_0027.N1	04-JAN-2004 23:45:03	Dark	89.000	15	67Alp Vir	0.97600	28000.	178	9660	No
GOM_TRA_1PNPDE20040104_234856_000000432023_00087_09660_0028.N1	04-JAN-2004 23:48:56	Dark	42.500	78	Alp Lup	2.3040	28000.	85	9660	No
GOM_TRA_1PNPDE20040104_235033_000000432023_00087_09660_0029.N1	04-JAN-2004 23:50:33	Dark	42.500	95	Zet Cen	2.5450	26000.	85	9660	No
GOM_TRA_1PNPDE20040104_235158_000000532023_00088_09661_0030.N1	04-JAN-2004 23:51:58	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	9661	No
GOM_TRA_1PNPDE20040104_235410_000000562023_00088_09661_0031.N1	04-JAN-2004 23:54:10	Dark	55.500	64	Gam Cen	2.2000	10600.	111	9661	No
GOM_TRA_1PNPDE20040104_235559_000000442023_00088_09661_0032.N1	04-JAN-2004 23:55:59	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	9661	No

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





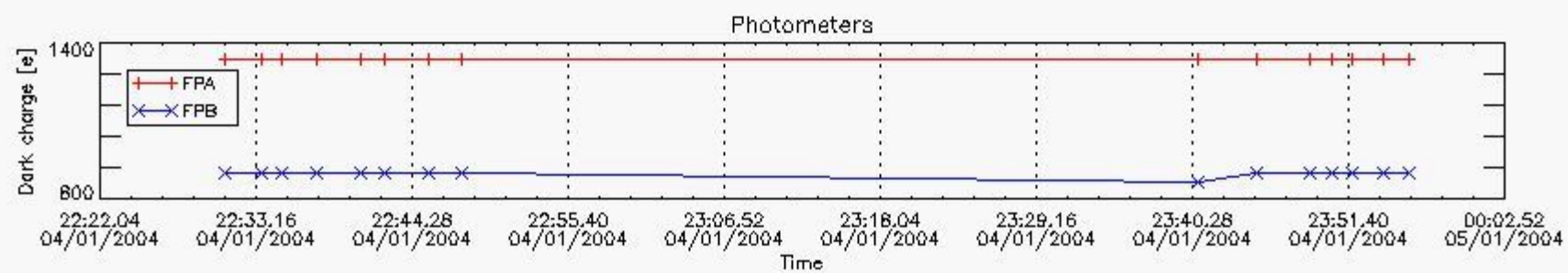
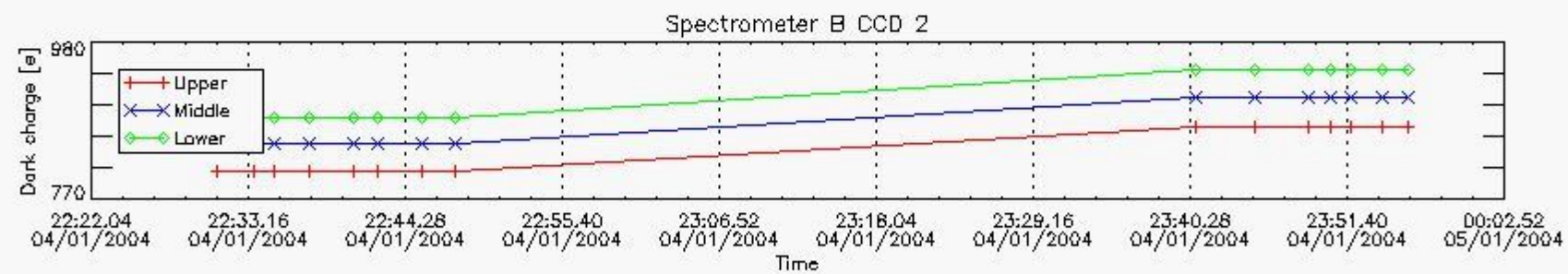
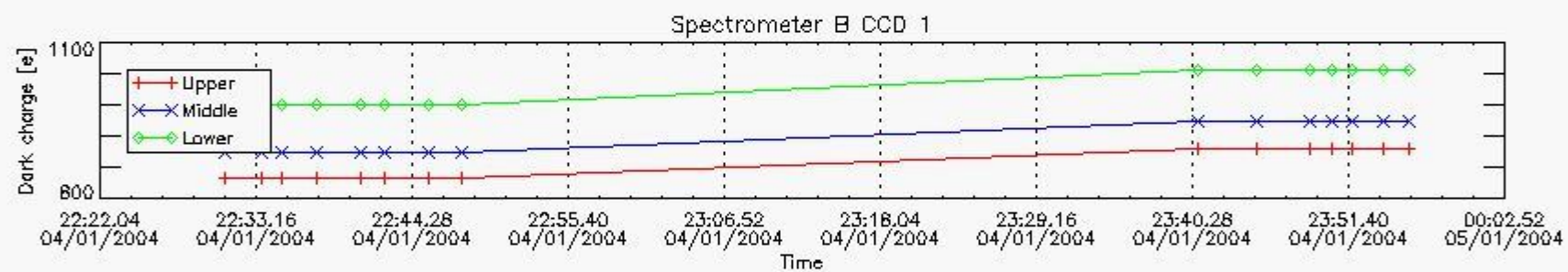
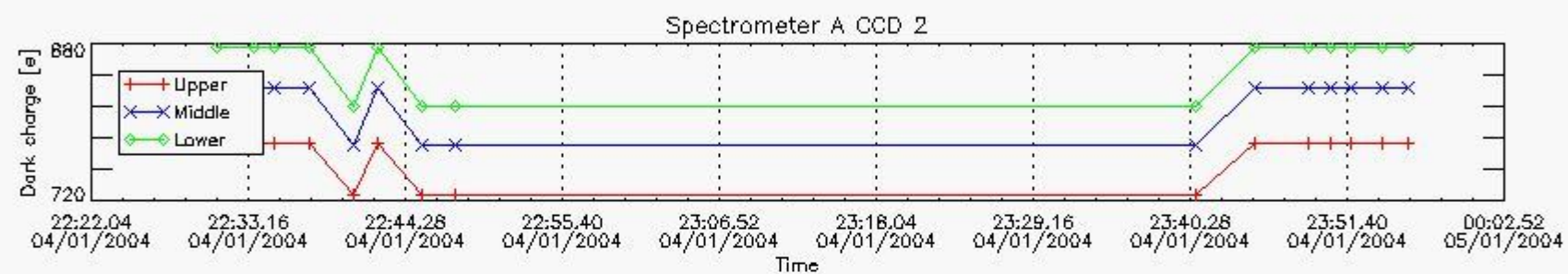
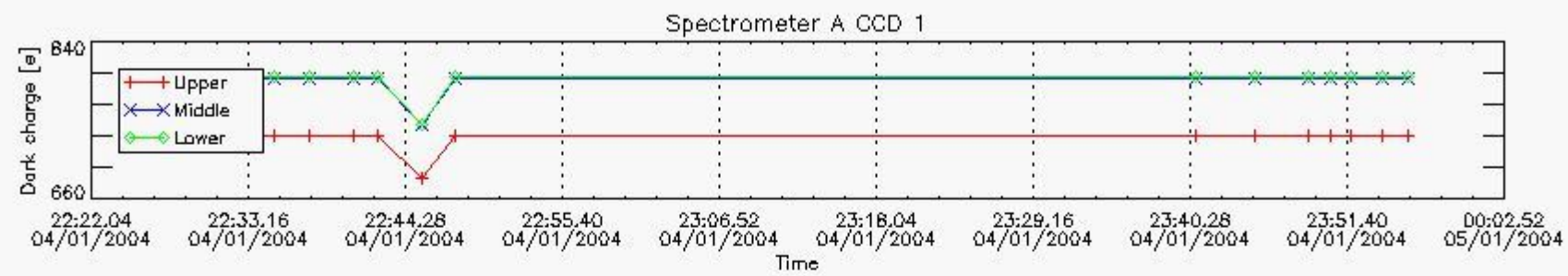
4. Overview of dark signal processing per product

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

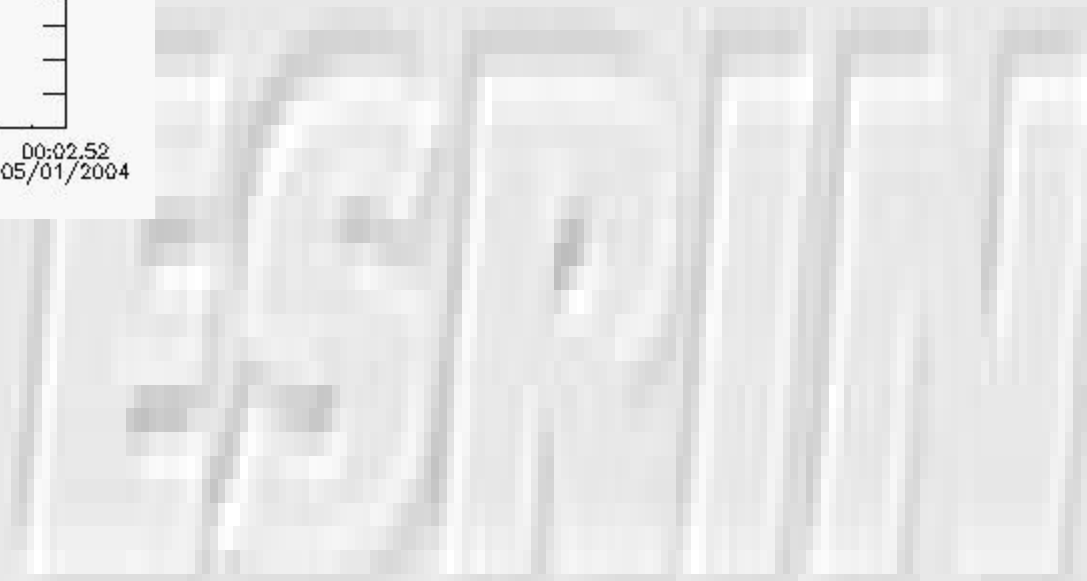
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



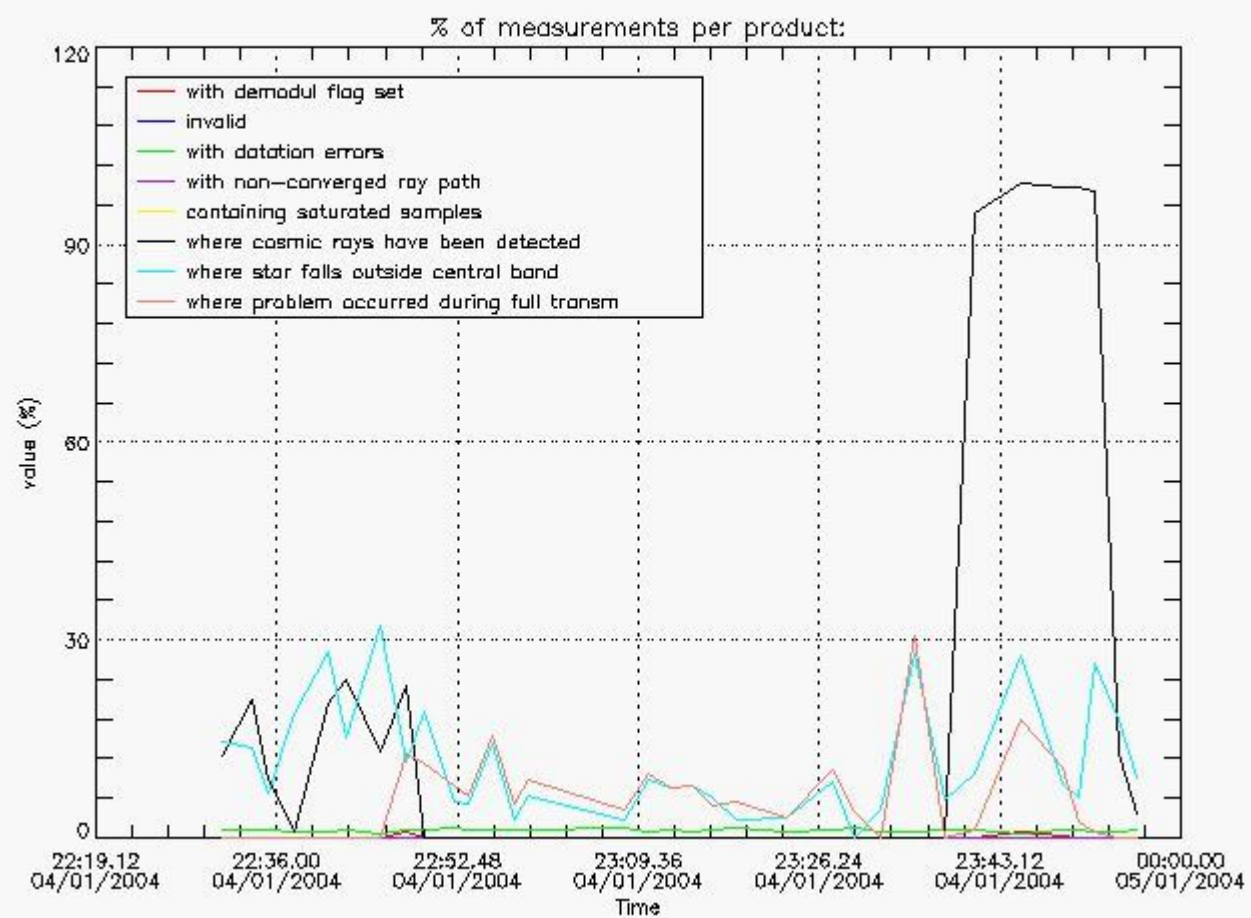
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2121 %
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



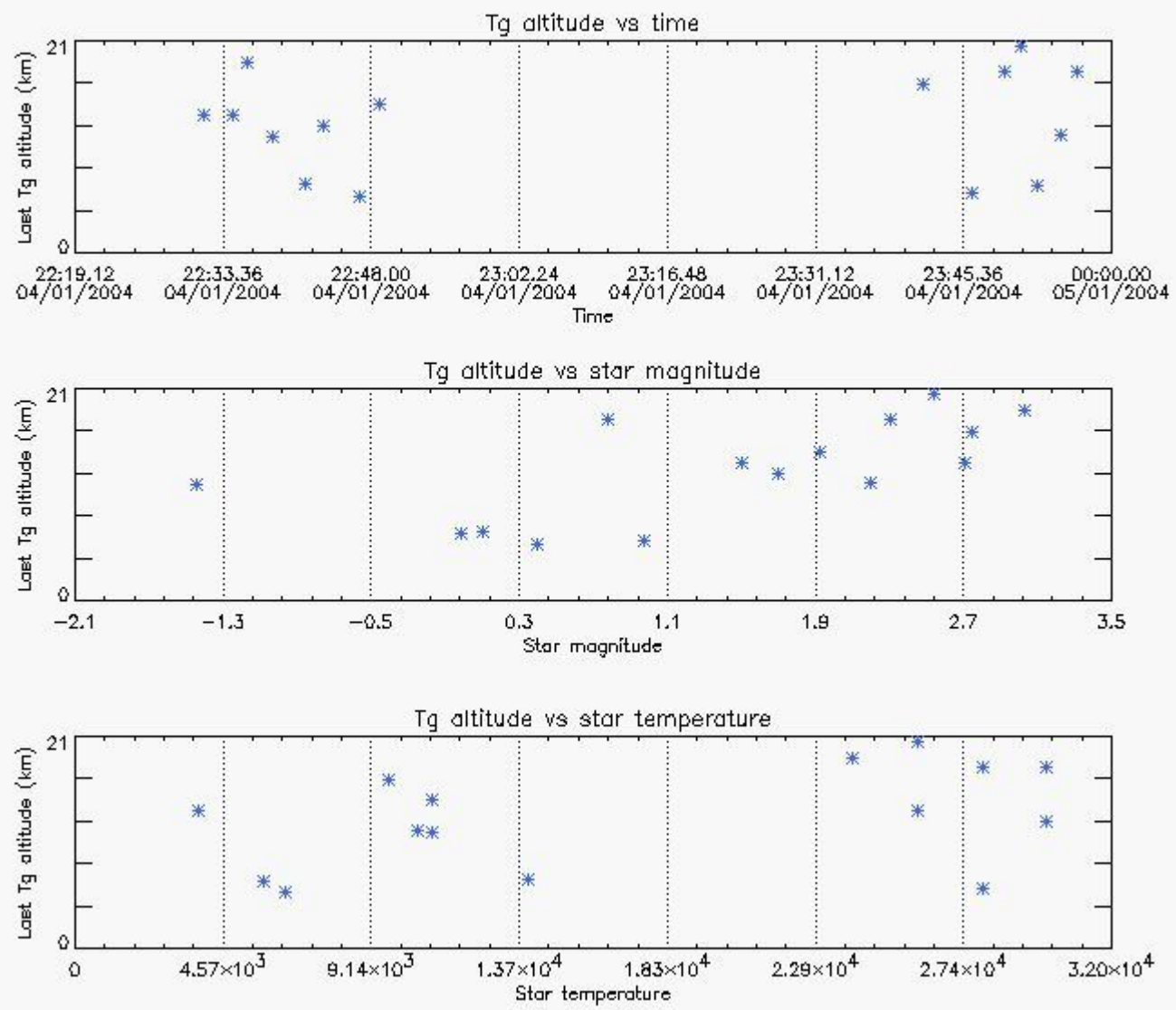
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.937	19.269
St. deviation:	4.9589	4.5386
Maximum:	20.446	25.618
Minimum:	5.5189	6.3583
Number of data:	15.000	18.000

6.2 Plot for DARK limb products

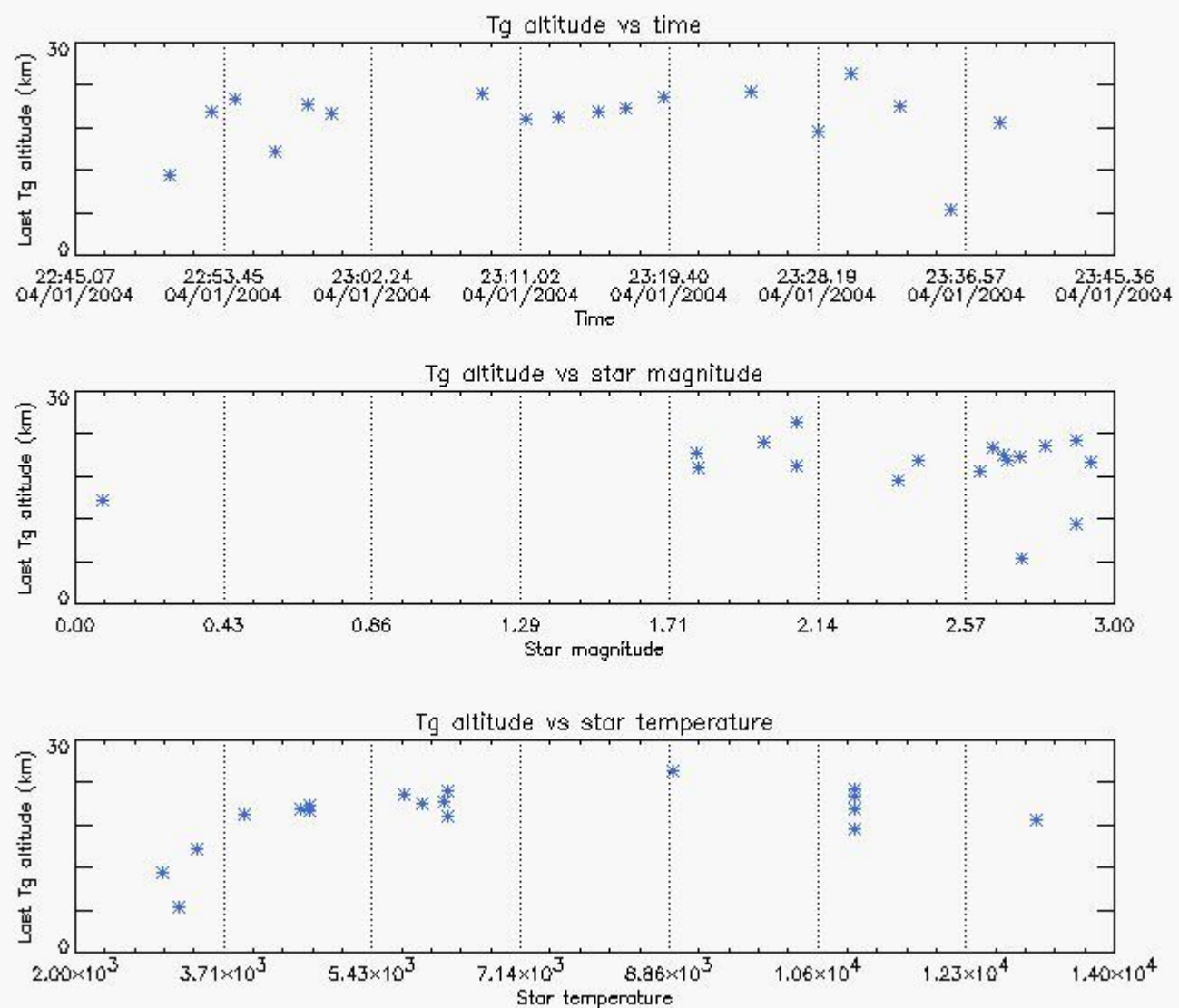
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



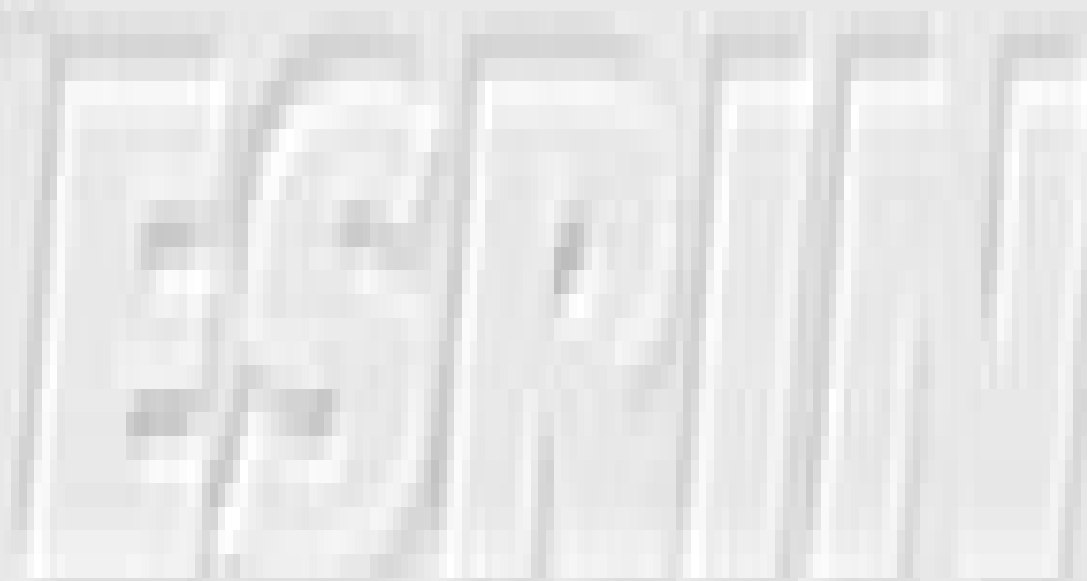
Tangent altitude at which the star is lost



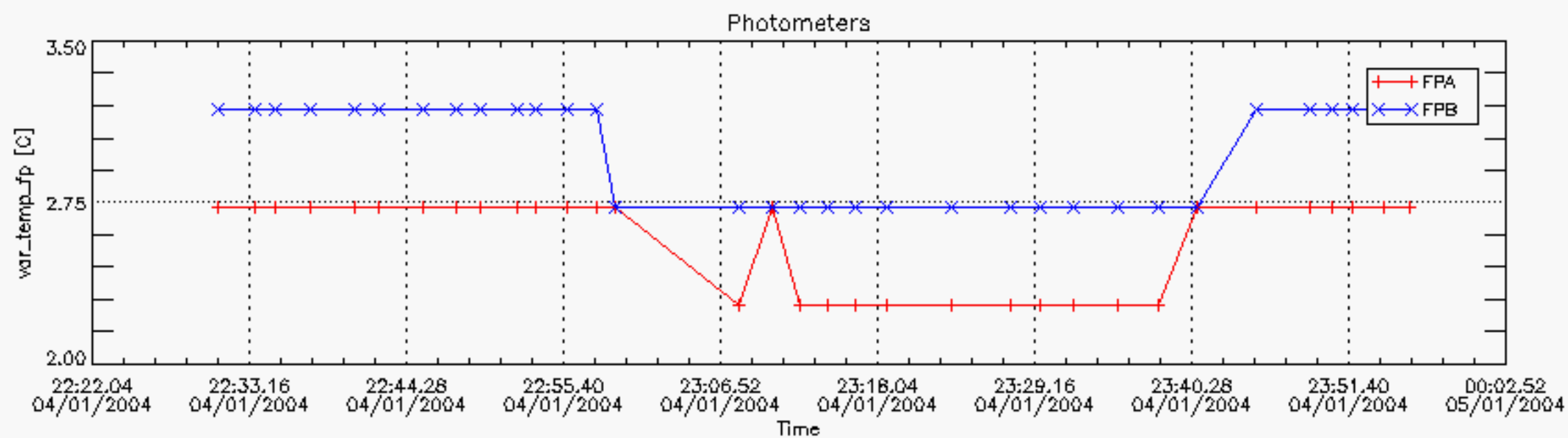
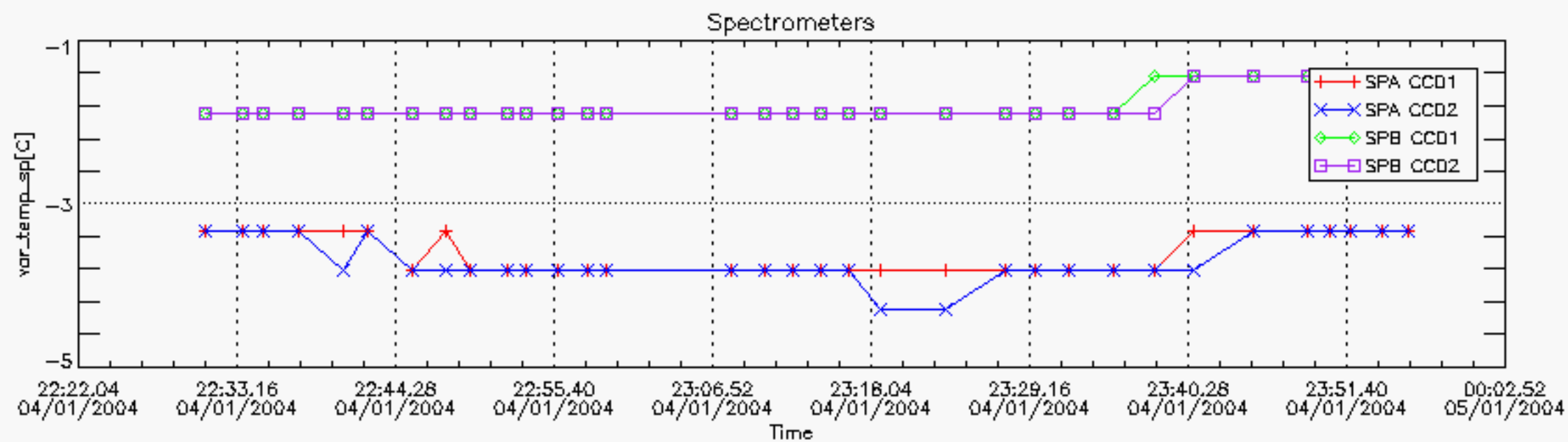
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

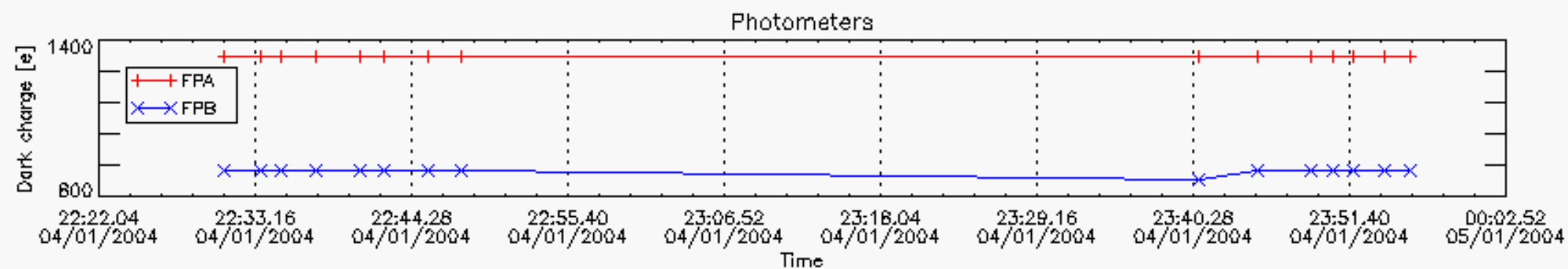
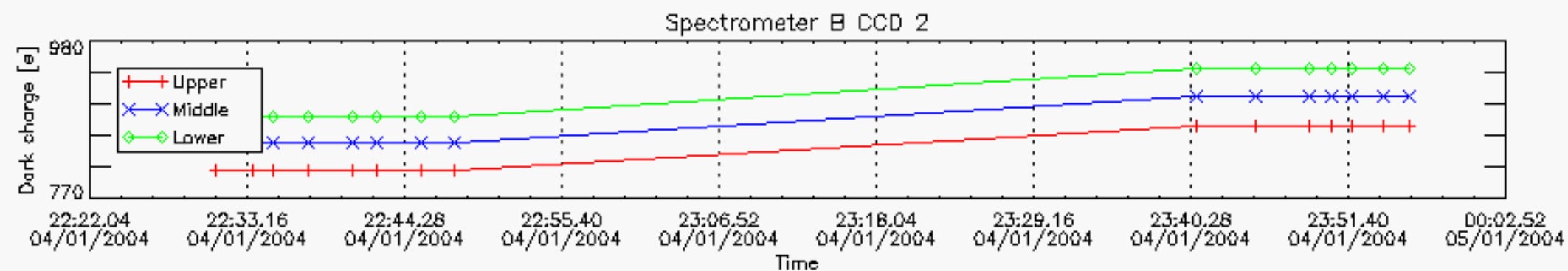
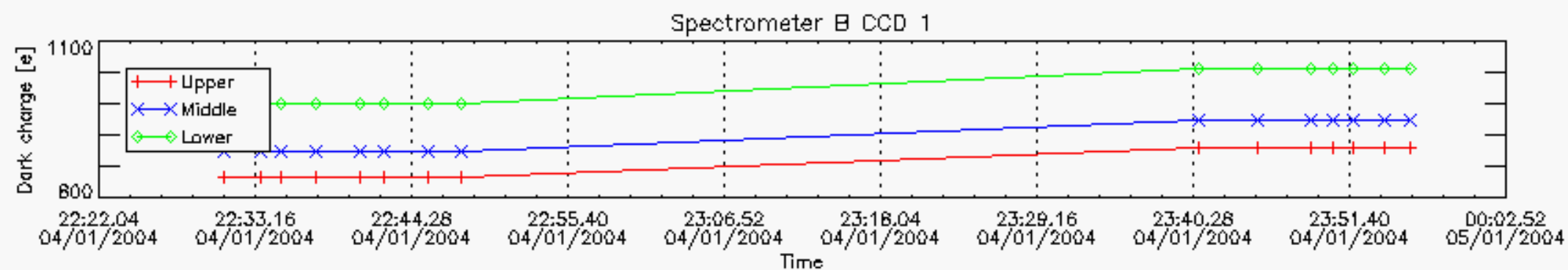
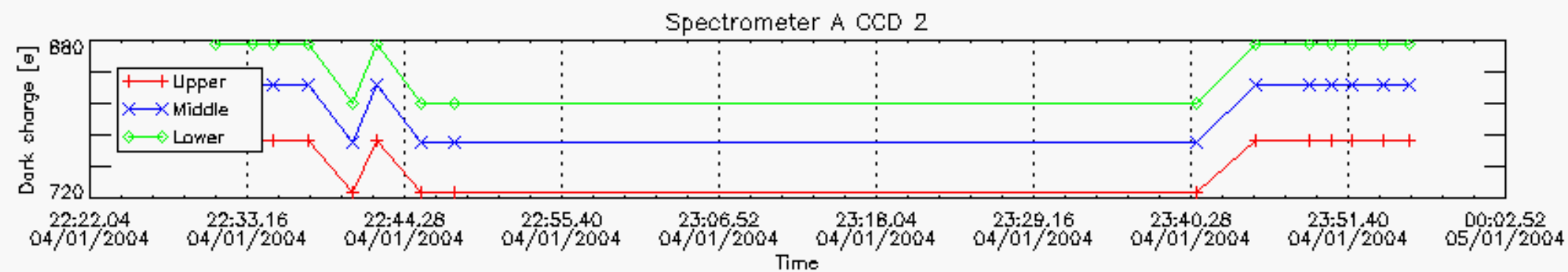
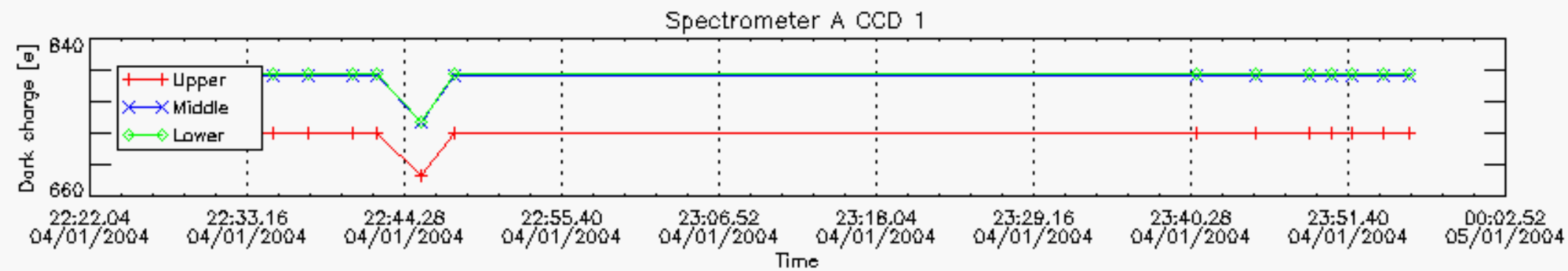
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.2	1447.7	1460.9	1447.5
St. deviation:	5.0248	6.2314	6.5592	7.7256
Maximum:	1563.0	1493.0	1508.0	1511.0
Minimum:	1455.0	1437.0	1427.0	1413.0
Number of data:	19750.	19750.	21950.	21950.

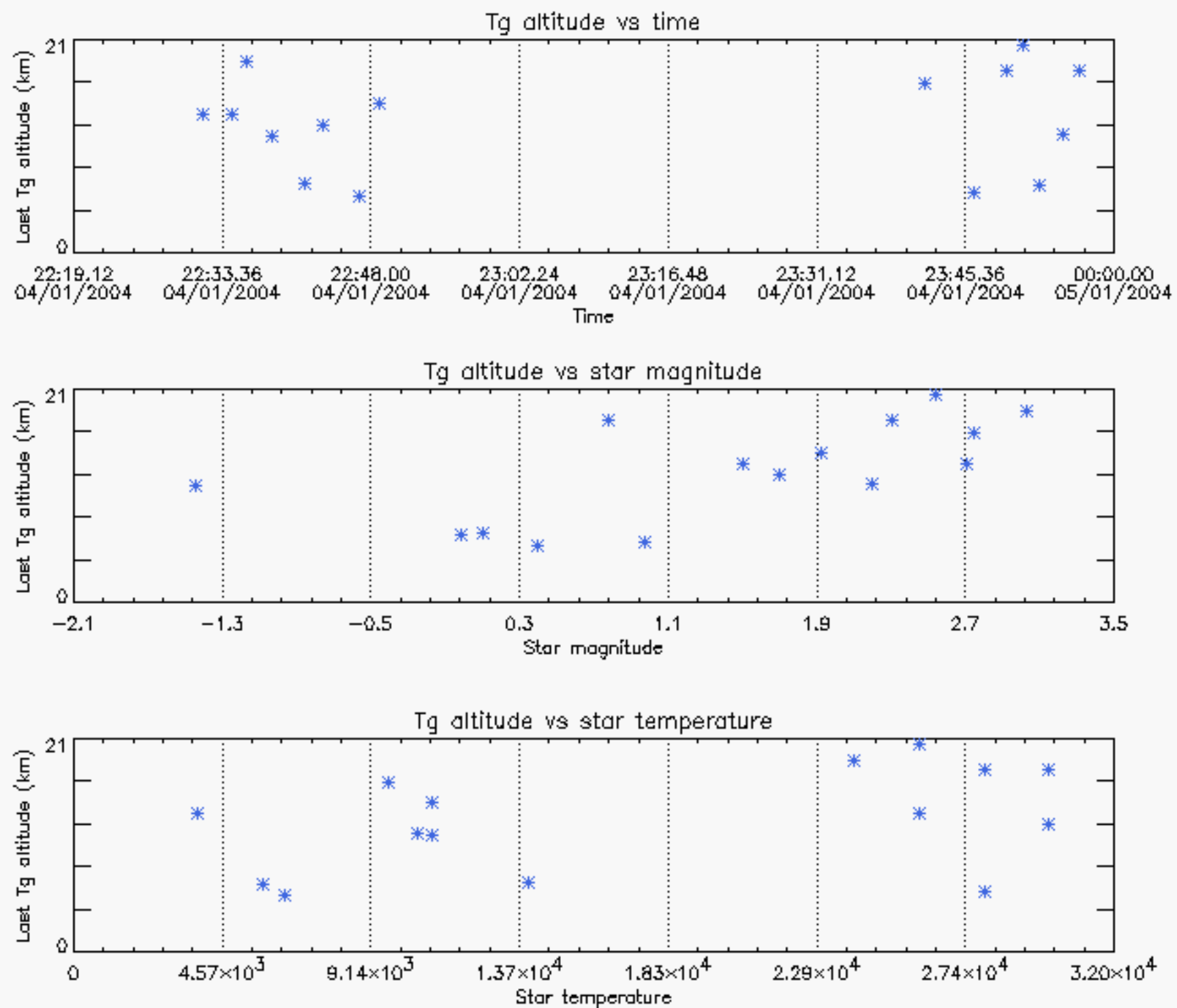




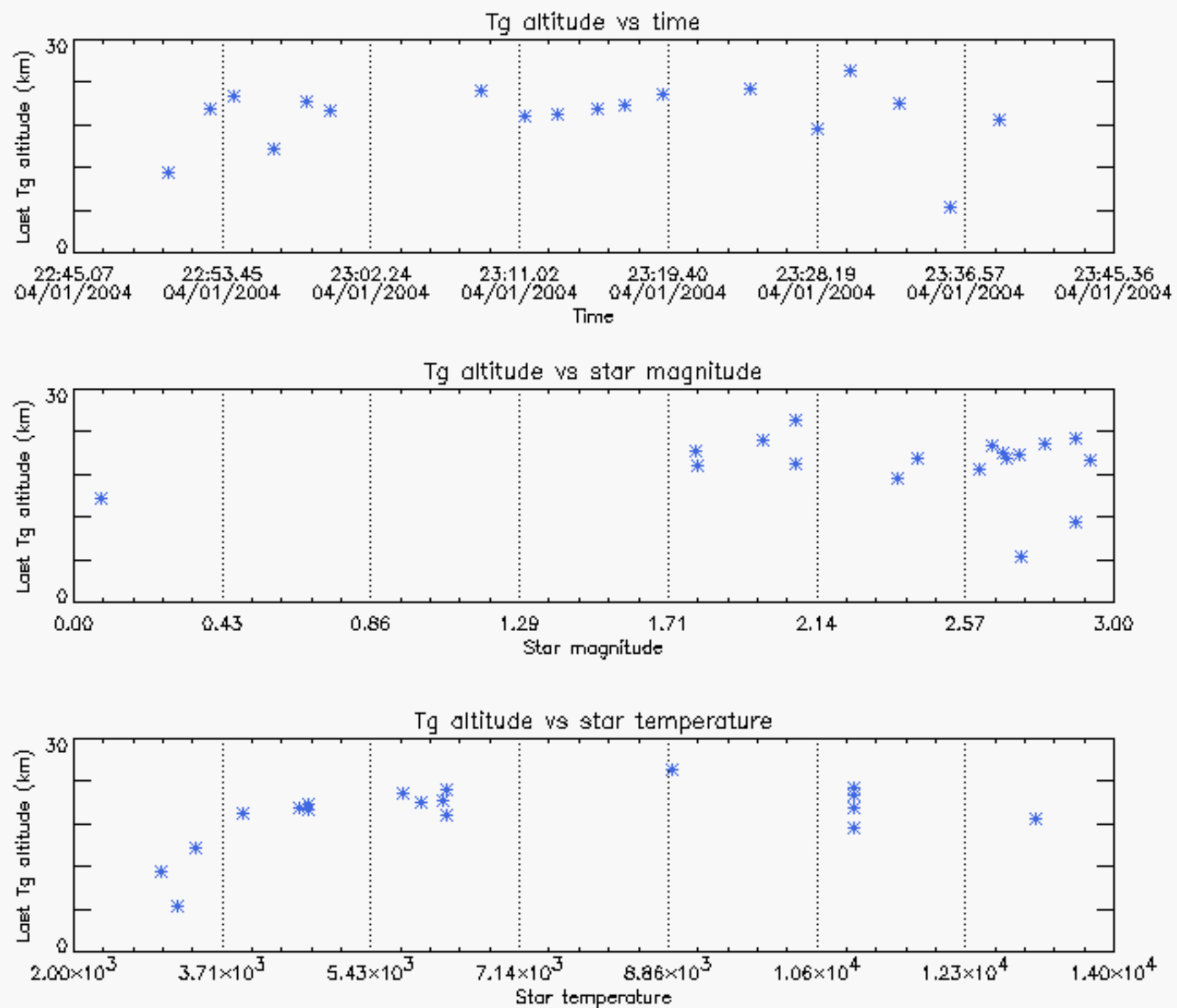




Tangent altitude at which the star is lost



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
31;	723.2;	01-JAN-2004	07:12:06;	Dark	;	54.0;	41;	Eps Car	;	1.86;	4100;occ;	108;	0;	9608
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
34;	1170.4;	01-JAN-2004	07:19:33;	Dark	;	51.0;	117;	Pi Pup	;	2.71;	3800;occ;	102;	0;	9608
35;	1339.2;	01-JAN-2004	07:22:22;	Dark	;	48.0;	23;	21Eps CMA	;	1.50;	26000;occ;	96;	0;	9608
36;	1431.6;	01-JAN-2004	07:23:55;	Dark	;	46.5;	179;	240mi2CMA	;	3.03;	24000;occ;	93;	0;	9608
37;	1580.6;	01-JAN-2004	07:26:24;	Dark	;	49.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	99;	0;	9608
38;	1768.3;	01-JAN-2004	07:29:31;	Dark	;	33.0;	7;	19Bet Ori	;	0.10;	14000;occ;	66;	0;	9608

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6;	-3564.7;	01-JAN-2004	07:41:14;	Bright;	;	39.0;	114;	3Iot Aur	;	2.69;	4600;occ;	78;	0;	9608
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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
20;	-1167.1;	06-JAN-2004	10:44:54;	Bright	;	63.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	126;	0;	9681
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
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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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1;	-4840.1;	06-JAN-2004	16:26:04;	Dark	;	48.5;	117;	Pi Pup	;	2.71;	3800;	occ;	97;	0;	9685
2;	-4680.1;	06-JAN-2004	16:28:44;	Dark	;	52.5;	23;	21Eps CMa	;	1.50;	26000;	occ;	105;	0;	9685
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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9;	-3729.4;	06-JAN-2004	16:44:35;	Bright	;	47.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	94;	0;	9685
10;	-3643.8;	06-JAN-2004	16:46:01;	Bright	;	40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	9685
11;	-3561.4;	06-JAN-2004	16:47:23;	Bright	;	41.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	82;	0;	9685
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
24;	-1164.2;	06-JAN-2004	17:27:20;	Bright	;	66.5;	111;	8Eta Boo	;	2.68;	6000;	occ;	133;	0;	9685
25;	-988.8;	06-JAN-2004	17:30:16;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9685
26;	-807.0;	06-JAN-2004	17:33:18;	Dark	;	46.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	92;	0;	9685
27;	-661.5;	06-JAN-2004	17:35:43;	Dark	;	43.5;	80;	7Del Sco	;	2.32;	30000;	occ;	87;	0;	9685
28;	-360.4;	06-JAN-2004	17:40:44;	Dark	;	87.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	175;	0;	9685

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31; 167.9; 06-JAN-2004 17:49:33; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0; 9686
32; 266.6; 06-JAN-2004 17:51:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0; 9686
33; 421.6; 06-JAN-2004 17:53:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9686
34; 572.1; 06-JAN-2004 17:56:17; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0; 9686
35; 665.6; 06-JAN-2004 17:57:50; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0; 9686
36; 755.9; 06-JAN-2004 17:59:20; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0; 9686
37; 895.1; 06-JAN-2004 18:01:40; Dark ; 59.0; 65; Lam Vel ; 2.20; 4400;occ; 118; 0; 9686
38; 995.9; 06-JAN-2004 18:03:21; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0; 9686
39; 1082.0; 06-JAN-2004 18:04:47; Dark ; 10.5; 70; Zet Pup ; 2.25; 39000;occ; 21; 0; 9686
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2; -4954.0; 06-JAN-2004 18:04:47; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0; 9686
3; -4839.3; 06-JAN-2004 18:06:41; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0; 9686
4; -4678.0; 06-JAN-2004 18:09:23; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0; 9686
5; -4588.7; 06-JAN-2004 18:10:52; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0; 9686
6; -4446.6; 06-JAN-2004 18:13:14; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0; 9686
7; -4257.8; 06-JAN-2004 18:16:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0; 9686
8; -4150.9; 06-JAN-2004 18:18:10; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0; 9686
9; -3982.2; 06-JAN-2004 18:20:58; Dark ; 67.5; 8; 10Alp CMI ; 0.40; 6500;occ; 135; 0; 9686
10; -3829.3; 06-JAN-2004 18:23:31; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0; 9686
11; -3730.3; 06-JAN-2004 18:25:10; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0; 9686
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13; -3561.2; 06-JAN-2004 18:27:59; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9686
14; -3405.5; 06-JAN-2004 18:30:35; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0; 9686
15; -3266.6; 06-JAN-2004 18:32:54; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0; 9686
16; -3133.9; 06-JAN-2004 18:35:07; Bright; 39.5; 160; 23Gam Per ; 2.93; 4700;occ; 79; 0; 9686
17; -2614.1; 06-JAN-2004 18:43:46; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0; 9686
18; -2492.0; 06-JAN-2004 18:45:49; Bright; 51.0; 36; 50Alp UMA ; 1.80; 6300;occ; 102; 0; 9686
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21; -2113.8; 06-JAN-2004 18:52:07; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0; 9686
22; -1977.7; 06-JAN-2004 18:54:23; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9686
23; -1709.5; 06-JAN-2004 18:58:51; Bright; 69.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 139; 0; 9686
24; -1446.8; 06-JAN-2004 19:03:14; Bright; 51.0; 83; ; 2.38; 11000;occ; 102; 0; 9686
25; -1318.3; 06-JAN-2004 19:05:22; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0; 9686
26; -1163.7; 06-JAN-2004 19:07:57; Bright; 62.5; 111; 8Eta Boo ; 2.68; 6000;occ; 125; 0; 9686
27; -987.8; 06-JAN-2004 19:10:53; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0; 9686
28; -805.9; 06-JAN-2004 19:13:55; Dark ; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0; 9686
29; -661.2; 06-JAN-2004 19:16:19; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0; 9686
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31; -211.9; 06-JAN-2004 19:23:49; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0; 9686
32; 22.9; 06-JAN-2004 19:27:43; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0; 9687
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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36; 572.4; 06-JAN-2004 19:36:53; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0; 9687
37; 667.9; 06-JAN-2004 19:38:28; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0; 9687
38; 756.3; 06-JAN-2004 19:39:57; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0; 9687
39; 894.0; 06-JAN-2004 19:42:15; Dark ; 60.5; 65; Lam Vel ; 2.20; 4400;occ; 121; 0; 9687
40; 996.1; 06-JAN-2004 19:43:57; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0; 9687
41; 1081.8; 06-JAN-2004 19:45:22; Dark ; 25.5; 70; Zet Pup ; 2.25; 39000;occ; 51; 0; 9687
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2; -4148.6; 07-JAN-2004 11:04:11; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0; 9696
3; -4006.2; 07-JAN-2004 11:06:33; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0; 9696
4; -3831.4; 07-JAN-2004 11:09:28; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9696
5; -3731.5; 07-JAN-2004 11:11:08; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0; 9696
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
8; -3401.9; 07-JAN-2004 11:16:38; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0; 9696
9; -3264.0; 07-JAN-2004 11:18:55; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9696
10; -3130.5; 07-JAN-2004 11:21:09; Bright; 39.5; 160; 23Gam Per ; 2.93; 4700;occ; 79; 0; 9696
11; -2614.6; 07-JAN-2004 11:29:45; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0; 9696
12; -2498.2; 07-JAN-2004 11:31:41; Bright; 49.5; 36; 50Alp UMA ; 1.80; 6300;occ; 99; 0; 9696
13; -2359.1; 07-JAN-2004 11:34:00; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0; 9696
14; -2259.0; 07-JAN-2004 11:35:40; Bright; 54.0; 87; 64Gam UMA ; 2.43; 11000;occ; 108; 0; 9696

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15;-2113.2; 07-JAN-2004 11:38:06; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0; 9696
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17;-1711.7; 07-JAN-2004 11:44:48; Bright; 69.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 139; 0; 9696
18;-1444.3; 07-JAN-2004 11:49:15; Bright; 49.5; 83; ; 2.38; 11000;occ; 99; 0; 9696
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28; 339.5; 08-JAN-2004 08:26:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9709
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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
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22;-793.3; 08-JAN-2004 09:47:53; Dark ; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0; 9709
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36; 1453.7; 08-JAN-2004 10:25:20; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0; 9710
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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
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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
8;	-4147.8;	08-JAN-2004	18:55:34;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	92;	0;	9715
9;	-3993.8;	08-JAN-2004	18:58:08;	Dark	;	61.0;	8;	10Alp CMi	;	0.40;	6500;	occ;	122;	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
17;	-3122.3;	08-JAN-2004	19:12:40;	Bright	;	37.5;	160;	23Gam Per	;	2.93;	4700;	occ;	75;	0;	9715
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19;	-2512.0;	08-JAN-2004	19:22:50;	Bright	;	46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	9715
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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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3;	-4829.1;	08-JAN-2004	20:24:49;	Dark	;	47.5;	117;	Pi Pup	;	2.71;	3800;	occ;	95;	0;	9716
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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
21;	-2174.4;	08-JAN-2004	21:09:04;	Bright	;	50.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	100;	0;	9716
22;	-1972.4;	08-JAN-2004	21:12:25;	Bright	;	52.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	104;	0;	9716
23;	-1717.0;	08-JAN-2004	21:16:41;	Bright	;	72.5;	152;	12Alp2CVn	;	2.89;	11000;	occ;	145;	0;	9716
24;	-1440.6;	08-JAN-2004	21:21:17;	Bright	;	53.0;	83;		;	2.38;	11000;	occ;	106;	0;	9716
25;	-1313.6;	08-JAN-2004	21:23:24;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9716
26;	-1141.2;	08-JAN-2004	21:26:17;	Bright	;	71.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	142;	0;	9716
27;	-978.0;	08-JAN-2004	21:29:00;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9716
28;	-788.6;	08-JAN-2004	21:32:09;	Dark	;	47.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	94;	0;	9716

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20;-1307.0; 11-JAN-2004 08:04:28; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9751
21;-1111.1; 11-JAN-2004 08:07:44; Bright; 78.5; 111; 8Eta Boo ; 2.68; 6000;occ; 157; 0; 9751
22;-878.9; 11-JAN-2004 08:11:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0; 9751
23;-612.1; 11-JAN-2004 08:16:03; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0; 9751
24;-307.0; 11-JAN-2004 08:21:08; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0; 9751
25;-210.2; 11-JAN-2004 08:22:45; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9751
26;-119.7; 11-JAN-2004 08:24:15; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9751
27; 247.1; 11-JAN-2004 08:30:22; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0; 9752
28; 342.4; 11-JAN-2004 08:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9752
29; 501.4; 11-JAN-2004 08:34:36; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9752
30; 594.8; 11-JAN-2004 08:36:10; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9752
31; 701.3; 11-JAN-2004 08:37:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9752
32; 782.6; 11-JAN-2004 08:39:17; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0; 9752
33; 1010.7; 11-JAN-2004 08:43:05; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9752
34; 1110.4; 11-JAN-2004 08:44:45; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9752
35; 1217.8; 11-JAN-2004 08:46:33; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0; 9752
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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2;	-4437.2;	11-JAN-2004	10:33:29;	Dark	;	51.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	103;	0;	9753
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
10;	-3361.3;	11-JAN-2004	10:51:25;	Bright;		39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	9753
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
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
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
30;	502.5;	11-JAN-2004	11:55:49;	Dark	;	40.5;	124;	The Car	;	2.76;	30000;occ;	81;	0;	9754
31;	595.6;	11-JAN-2004	11:57:22;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9754
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
37;	1375.0;	11-JAN-2004	12:10:21;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	9754
38;	1461.4;	11-JAN-2004	12:11:48;	Dark	;	43.0;	179;	240mi2CMA	;	3.03;	24000;occ;	86;	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
4;	-4436.8;	11-JAN-2004	17:15:53;	Dark	;	54.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	108;	0;	9757
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
10;	-3639.6;	11-JAN-2004	17:29:11;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9757
11;	-3549.8;	11-JAN-2004	17:30:40;	Bright;		38.5;	114;	3Iot Aur	;	2.69;	4600;occ;	77;	0;	9757
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
14;	-3103.8;	11-JAN-2004	17:38:06;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	9757
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
17;	-2364.7;	11-JAN-2004	17:50:26;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	9757
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
20;	-1786.7;	11-JAN-2004	18:00:04;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	9757
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
25;	-877.1;	11-JAN-2004	18:15:13;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9757
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
28;	-304.3;	11-JAN-2004	18:24:46;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	9757

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 31; 51.1; 11-JAN-2004 18:30:41; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0; 9758
 32; 250.5; 11-JAN-2004 18:34:01; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0; 9758
 33; 348.1; 11-JAN-2004 18:35:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9758
 34; 504.7; 11-JAN-2004 18:38:15; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9758
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 36; 703.7; 11-JAN-2004 18:41:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0; 9758
 37; 784.4; 11-JAN-2004 18:42:55; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0; 9758
 38; 1011.4; 11-JAN-2004 18:46:42; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0; 9758

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 5; -3739.3; 11-JAN-2004 09:04:31; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0; 9752
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 9; -3243.9; 11-JAN-2004 09:12:47; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9752
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 17; -1683.5; 11-JAN-2004 09:38:47; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9752
 18; -1430.6; 11-JAN-2004 09:43:00; Bright; 51.5; 83; ; 2.38; 11000;occ; 103; 0; 9752
 19; -1306.9; 11-JAN-2004 09:45:04; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0; 9752
 20; -1110.1; 11-JAN-2004 09:48:20; Bright; 80.5; 111; 8Eta Boo ; 2.68; 6000;occ; 161; 0; 9752
 21; -879.0; 11-JAN-2004 09:52:12; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0; 9752
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 26; 247.7; 11-JAN-2004 10:10:58; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0; 9753
 27; 343.4; 11-JAN-2004 10:12:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9753
 28; 502.3; 11-JAN-2004 10:15:13; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9753
 29; 595.6; 11-JAN-2004 10:16:46; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0; 9753
 30; 701.5; 11-JAN-2004 10:18:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0; 9753
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 35; 1375.1; 11-JAN-2004 10:29:46; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0; 9753
 36; 1461.7; 11-JAN-2004 10:31:12; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0; 9753

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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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