

# GOMOS Daily Report 11-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	12JAN2004 06:50:35
Data source version	<Any version>
Start time of products	11-JAN-2004 (11JAN2004 00:00:00)
Stop time of products	12-JAN-2004 (12JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	45
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

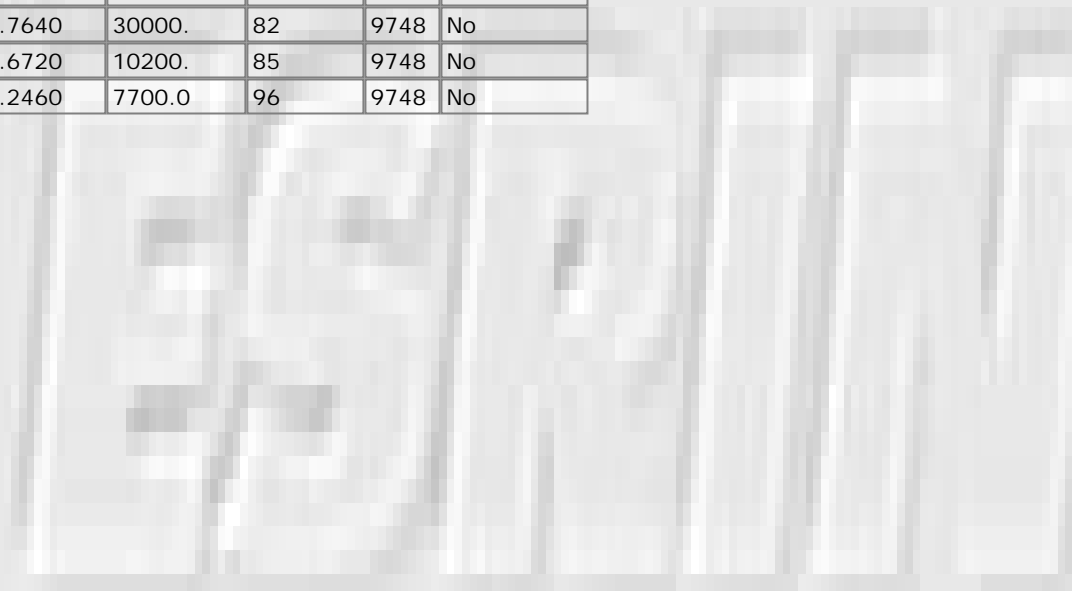
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

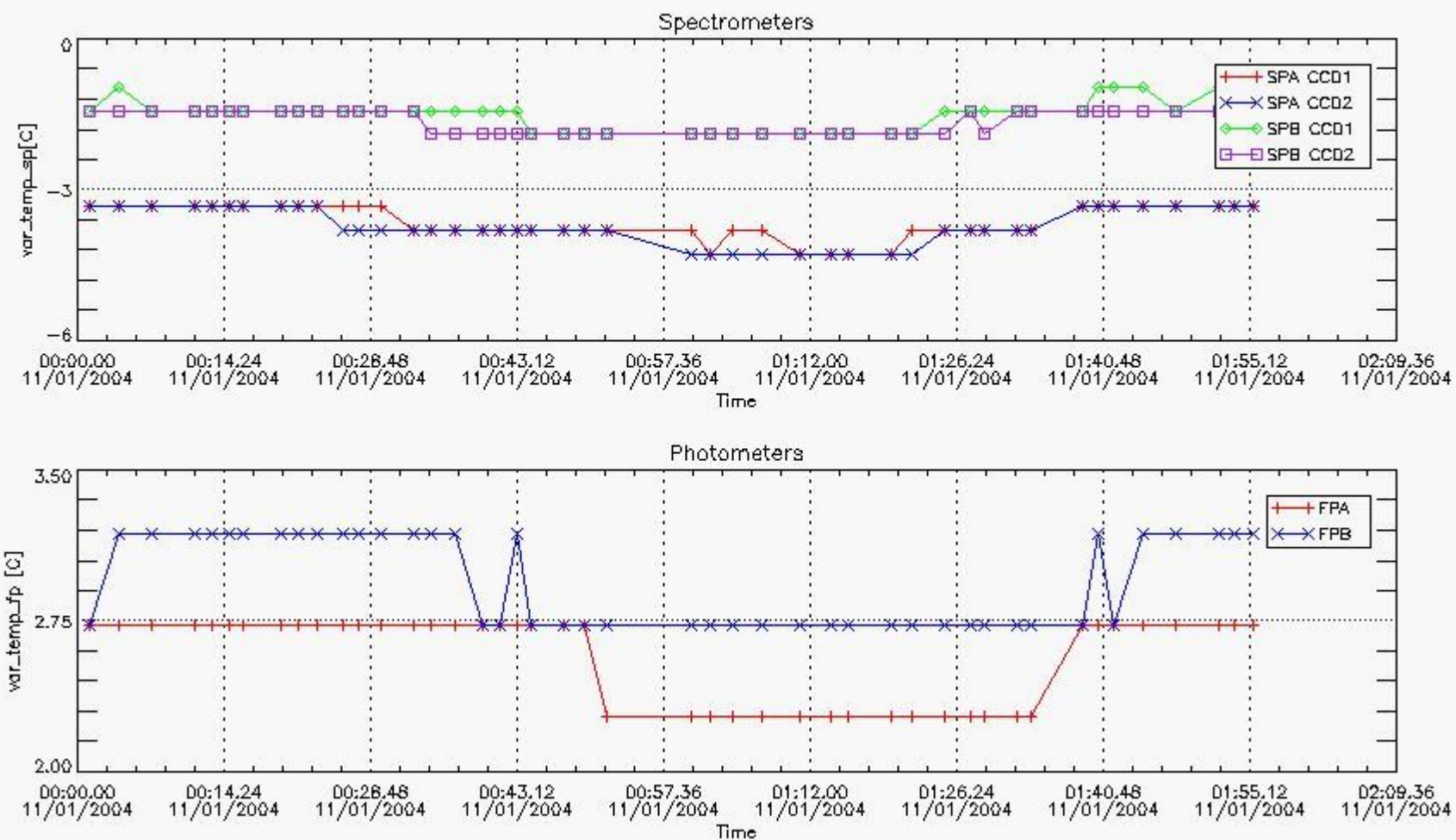
[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

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_1PNPDE20040111_000111_000000412023_00173_09746_0028.N1	11-JAN-2004 00:01:11	Dark	40.500	78	Alp Lup	2.3040	28000.	81	9746	No
GOM_TRA_1PNPDE20040111_000400_000000472023_00174_09747_0029.N1	11-JAN-2004 00:04:00	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	9747	No
GOM_TRA_1PNPDE20040111_000718_000000442023_00174_09747_0030.N1	11-JAN-2004 00:07:18	Dark	44.000	20	Bet Cru	1.2530	30000.	88	9747	No
GOM_TRA_1PNPDE20040111_001133_000000412023_00174_09747_0031.N1	11-JAN-2004 00:11:33	Dark	40.500	124	The Car	2.7640	30000.	81	9747	No
GOM_TRA_1PNPDE20040111_001308_000000472023_00174_09747_0032.N1	11-JAN-2004 00:13:08	Dark	47.000	29	Bet Car	1.6720	10200.	94	9747	No
GOM_TRA_1PNPDE20040111_001453_000000482023_00174_09747_0033.N1	11-JAN-2004 00:14:53	Dark	47.500	71	lot Car	2.2460	7700.0	95	9747	No
GOM_TRA_1PNPDE20040111_001614_000000542023_00174_09747_0034.N1	11-JAN-2004 00:16:14	Dark	54.000	41	Eps Car	1.8600	4100.0	108	9747	No
GOM_TRA_1PNPDE20040111_002003_000000482023_00174_09747_0035.N1	11-JAN-2004 00:20:03	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	9747	No
GOM_TRA_1PNPDE20040111_002142_000000462023_00174_09747_0036.N1	11-JAN-2004 00:21:42	Dark	46.000	70	Zet Pup	2.2460	39000.	92	9747	No
GOM_TRA_1PNPDE20040111_002330_000000502023_00174_09747_0037.N1	11-JAN-2004 00:23:30	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	9747	No
GOM_TRA_1PNPDE20040111_002607_000000452023_00174_09747_0038.N1	11-JAN-2004 00:26:07	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	9747	No
GOM_TRA_1PNPDE20040111_002733_000000462023_00174_09747_0000.N1	11-JAN-2004 00:27:33	Dark	45.500	179	24Omi2CMa	3.0320	24000.	91	9747	No
GOM_TRA_1PNPDE20040111_002953_000000482023_00174_09747_0001.N1	11-JAN-2004 00:29:53	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	9747	No
GOM_TRA_1PNPDE20040111_003304_000000522023_00174_09747_0002.N1	11-JAN-2004 00:33:04	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	9747	No
GOM_TRA_1PNPDE20040111_003445_000000452023_00174_09747_0003.N1	11-JAN-2004 00:34:45	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	9747	No
GOM_TRA_1PNPDE20040111_003707_000000602023_00174_09747_0004.N1	11-JAN-2004 00:37:07	Dark	60.000	8	10Alp CMI	0.40000	6500.0	120	9747	No
GOM_TRA_1PNPDE20040111_003949_000000452023_00174_09747_0005.N1	11-JAN-2004 00:39:49	Dark	45.000	44	24Gam Gem	1.9280	11000.	90	9747	No
GOM_TRA_1PNPDE20040111_004129_000000492023_00174_09747_0006.N1	11-JAN-2004 00:41:29	Bright	49.000	151	13Mu Gem	2.8900	3000.0	98	9747	No
GOM_TRA_1PNPDE20040111_004308_000000412023_00174_09747_0007.N1	11-JAN-2004 00:43:08	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	9747	No
GOM_TRA_1PNPDE20040111_004436_000000412023_00174_09747_0008.N1	11-JAN-2004 00:44:36	Bright	41.000	114	3lot Aur	2.6930	4600.0	82	9747	No
GOM_TRA_1PNPDE20040111_004750_000000392023_00174_09747_0009.N1	11-JAN-2004 00:47:50	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9747	No
GOM_TRA_1PNPDE20040111_004945_000000372023_00174_09747_0010.N1	11-JAN-2004 00:49:45	Bright	36.500	175	39Del Per	3.0100	19400.	73	9747	No
GOM_TRA_1PNPDE20040111_005203_000000392023_00174_09747_0011.N1	11-JAN-2004 00:52:03	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	9747	No
GOM_TRA_1PNPDE20040111_010017_000000382023_00174_09747_0012.N1	11-JAN-2004 01:00:17	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	9747	No
GOM_TRA_1PNPDE20040111_010208_000000552023_00174_09747_0013.N1	11-JAN-2004 01:02:08	Bright	55.000	82	48Bet UMa	2.3650	10600.	110	9747	No
GOM_TRA_1PNPDE20040111_010426_000000422023_00174_09747_0014.N1	11-JAN-2004 01:04:26	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	9747	No
GOM_TRA_1PNPDE20040111_010719_000000522023_00174_09747_0015.N1	11-JAN-2004 01:07:19	Bright	51.500	32	77Eps UMa	1.7630	11000.	103	9747	No
GOM_TRA_1PNPDE20040111_011101_000000392023_00174_09747_0016.N1	11-JAN-2004 01:11:01	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	9747	No
GOM_TRA_1PNPDE20040111_011401_000000402023_00174_09747_0017.N1	11-JAN-2004 01:14:01	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	9747	No
GOM_TRA_1PNPDE20040111_011548_000000492023_00174_09747_0018.N1	11-JAN-2004 01:15:48	Bright	48.500	180	27Gam Boo	3.0400	8000.0	97	9747	No
GOM_TRA_1PNPDE20040111_012000_000000532023_00174_09747_0019.N1	11-JAN-2004 01:20:00	Bright	52.500	83		2.3780	11000.	105	9747	No
GOM_TRA_1PNPDE20040111_012202_000000362023_00174_09747_0020.N1	11-JAN-2004 01:22:02	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	9747	No
GOM_TRA_1PNPDE20040111_012517_000000842023_00174_09747_0021.N1	11-JAN-2004 01:25:17	Bright	83.500	111	8Eta Boo	2.6800	6000.0	167	9747	No
GOM_TRA_1PNPDE20040111_012743_000000422023_00174_09747_0022.N1	11-JAN-2004 01:27:43	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	9747	No
GOM_TRA_1PNPDE20040111_012909_000000382023_00174_09747_0023.N1	11-JAN-2004 01:29:09	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	9747	No
GOM_TRA_1PNPDE20040111_013220_000000432023_00174_09747_0024.N1	11-JAN-2004 01:32:20	Dark	43.000	97	8Bet1Sco	2.5610	30000.	86	9747	No
GOM_TRA_1PNPDE20040111_013337_000000522023_00174_09747_0025.N1	11-JAN-2004 01:33:37	Dark	51.500	16	21Alp Sco	1.0200	3000.0	103	9747	No
GOM_TRA_1PNPDE20040111_013841_000000402023_00174_09747_0026.N1	11-JAN-2004 01:38:41	Dark	39.500	131	Gam Lup	2.8000	26000.	79	9747	No
GOM_TRA_1PNPDE20040111_014017_000000422023_00174_09747_0027.N1	11-JAN-2004 01:40:17	Dark	41.500	109	Bet Lup	2.6770	26000.	83	9747	No
GOM_TRA_1PNPDE20040111_014148_000000462023_00174_09747_0028.N1	11-JAN-2004 01:41:48	Dark	46.000	78	Alp Lup	2.3040	28000.	92	9747	No
GOM_TRA_1PNPDE20040111_014436_000000452023_00175_09748_0029.N1	11-JAN-2004 01:44:36	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	9748	No
GOM_TRA_1PNPDE20040111_014754_000000452023_00175_09748_0030.N1	11-JAN-2004 01:47:54	Dark	45.000	20	Bet Cru	1.2530	30000.	90	9748	No
GOM_TRA_1PNPDE20040111_015210_000000412023_00175_09748_0031.N1	11-JAN-2004 01:52:10	Dark	41.000	124	The Car	2.7640	30000.	82	9748	No
GOM_TRA_1PNPDE20040111_015341_000000432023_00175_09748_0032.N1	11-JAN-2004 01:53:41	Dark	42.500	29	Bet Car	1.6720	10200.	85	9748	No
GOM_TRA_1PNPDE20040111_015529_000000482023_00175_09748_0033.N1	11-JAN-2004 01:55:29	Dark	48.000	71	lot Car	2.2460	7700.0	96	9748	No

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





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

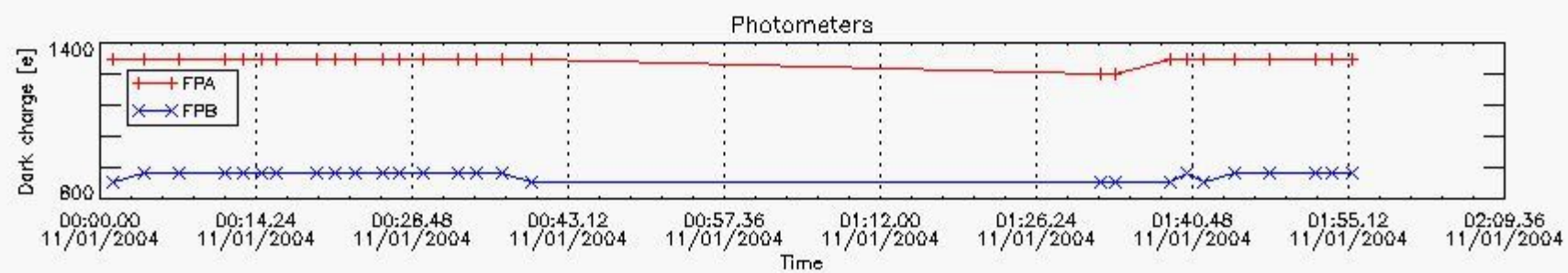
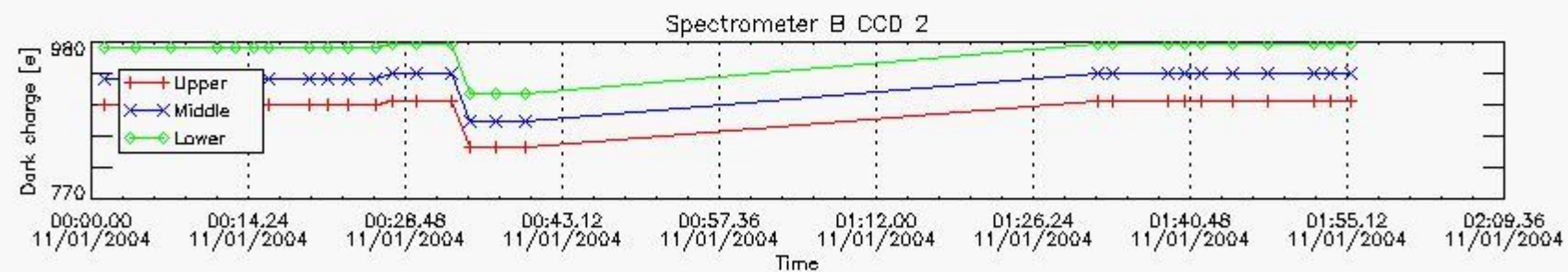
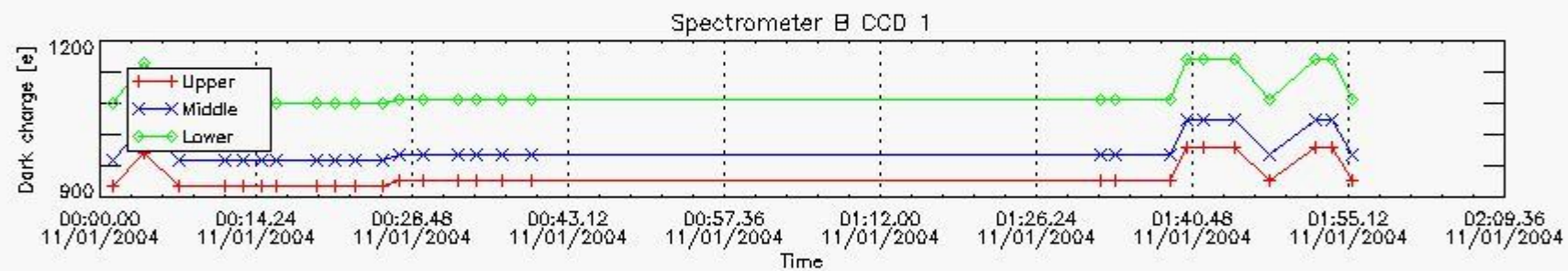
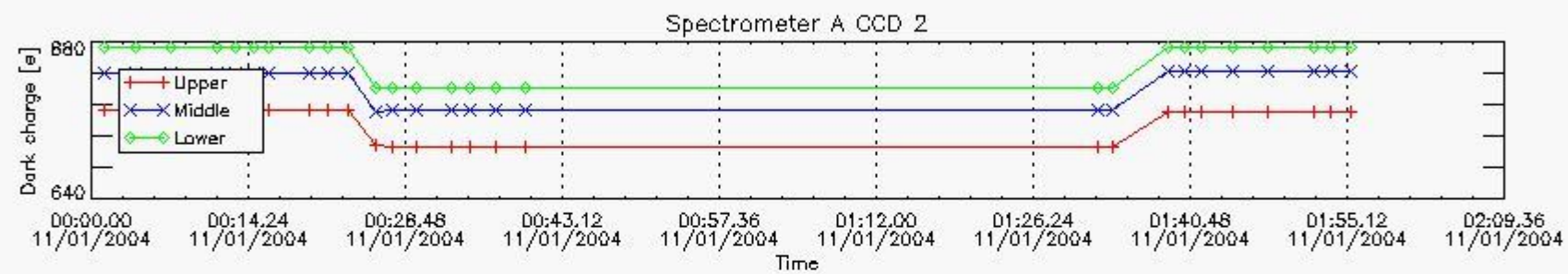
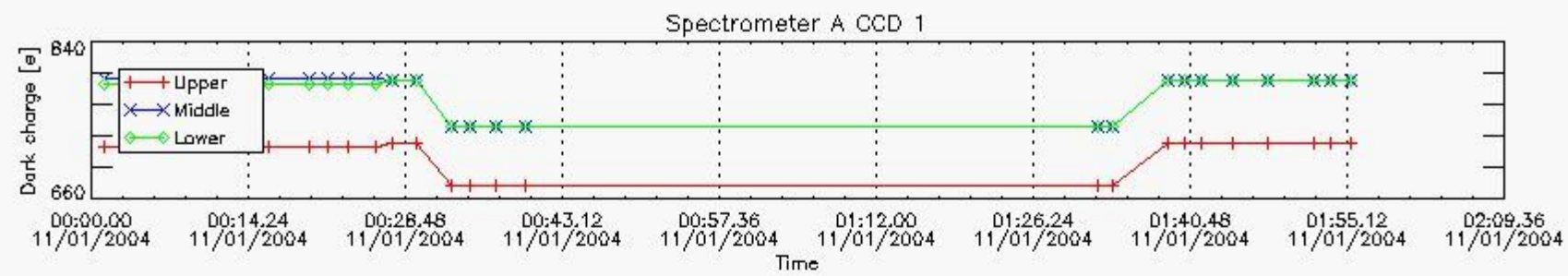
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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



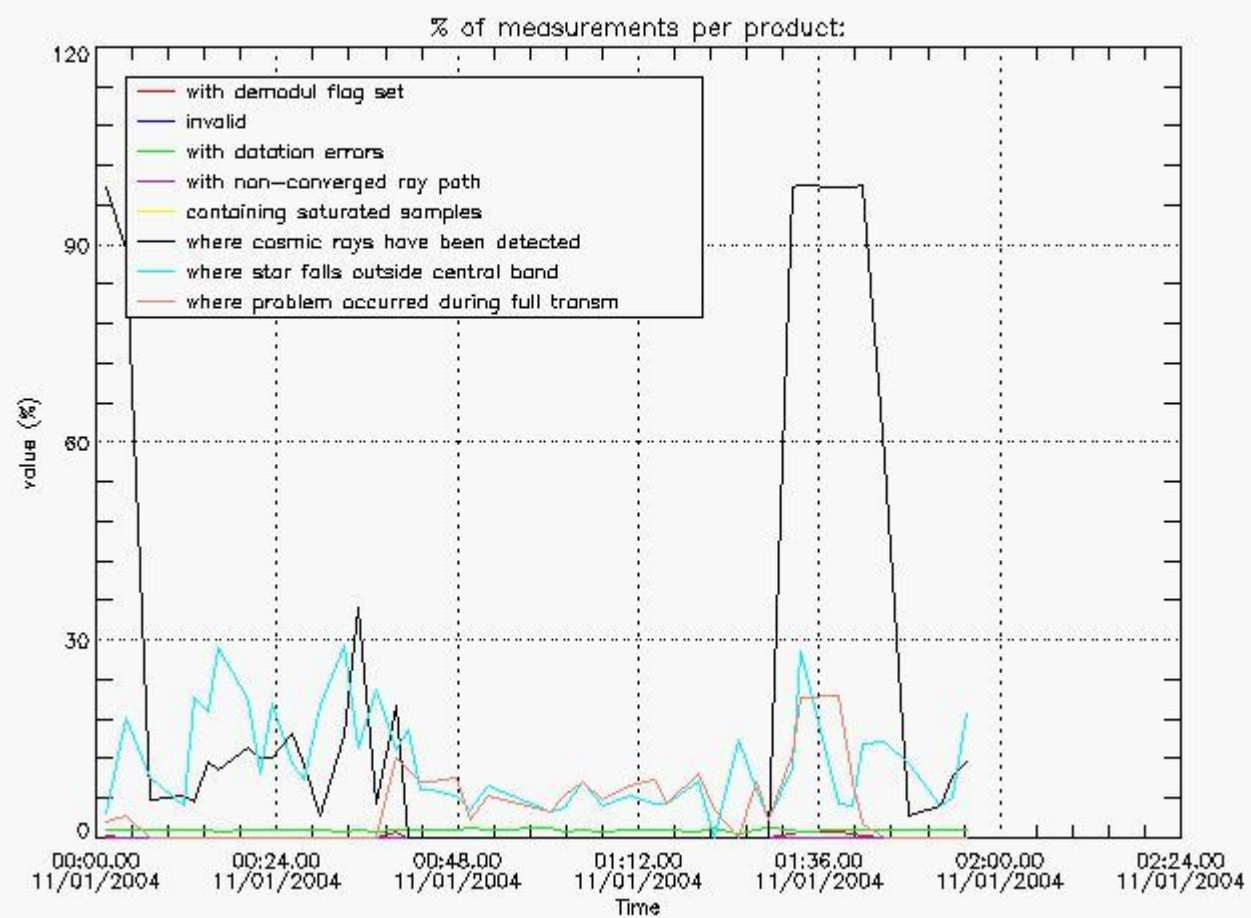


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

## 5.2 Plot quality information per product



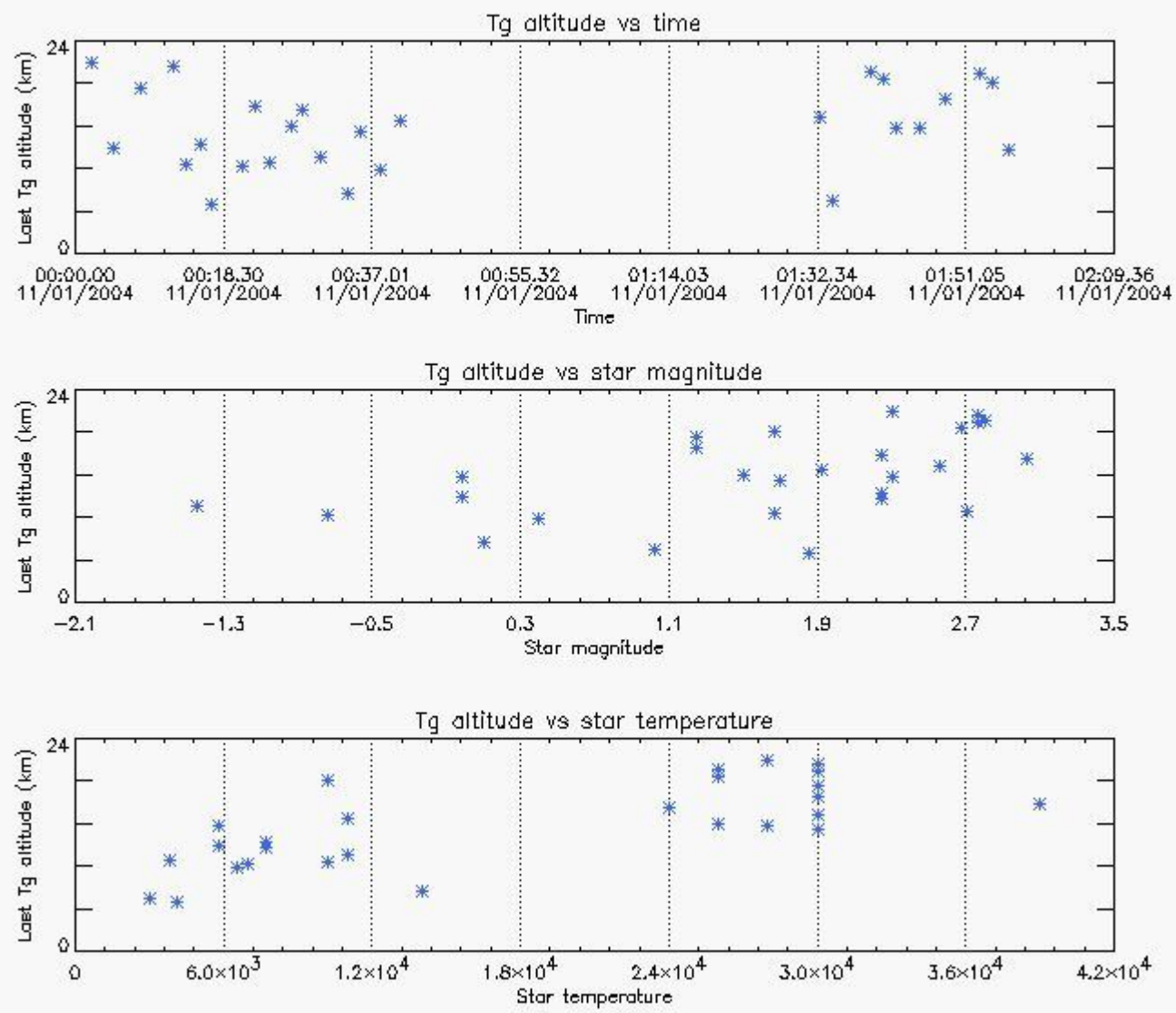
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.178	19.700
St. deviation:	4.7041	3.4676
Maximum:	21.461	25.122
Minimum:	5.6197	11.986
Number of data:	27.000	18.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

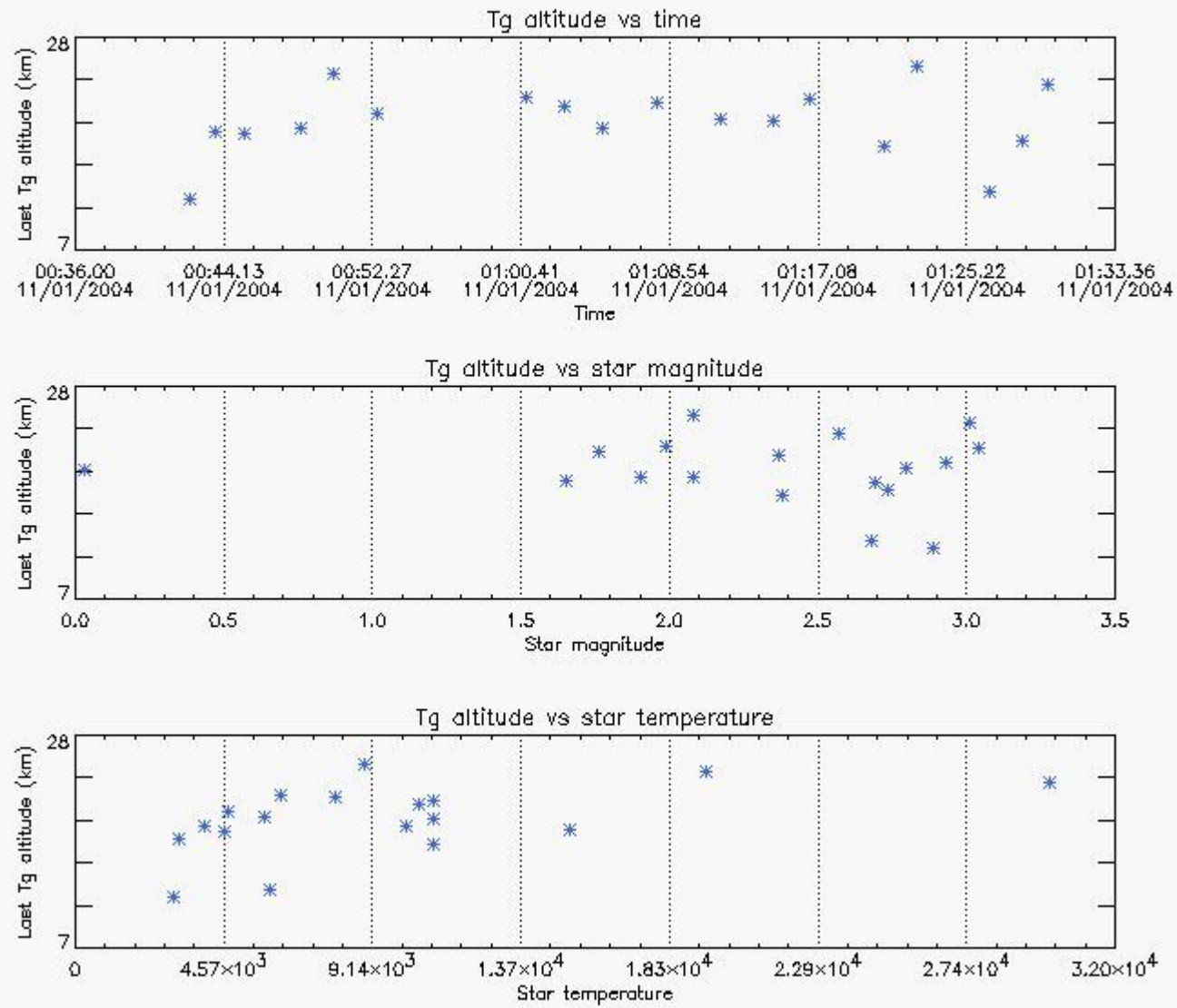


6.3 Plot for BRIGHT limb products





### 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

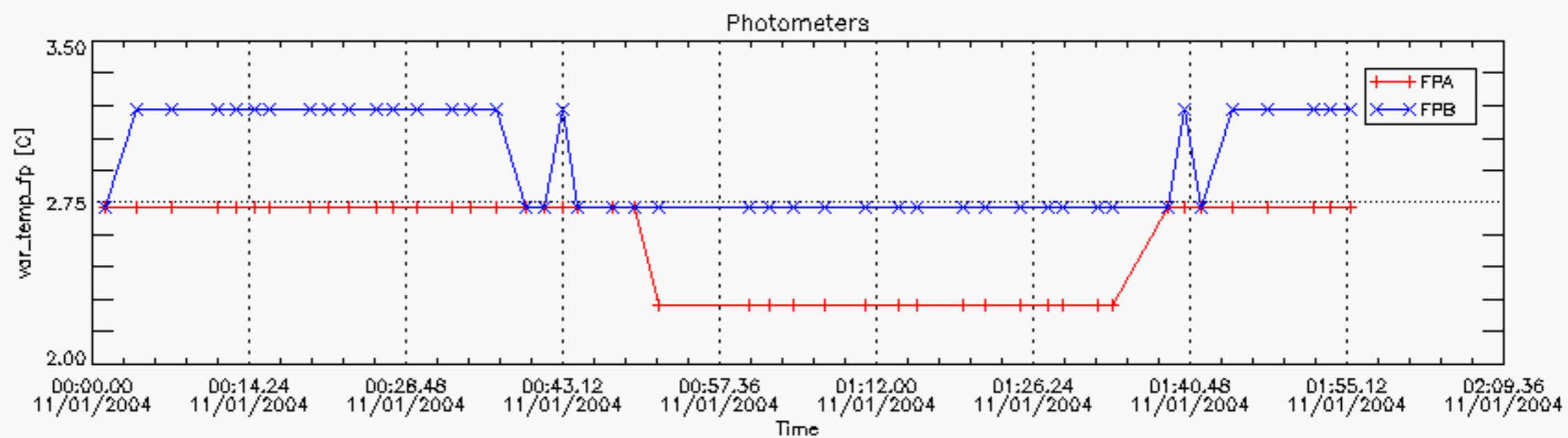
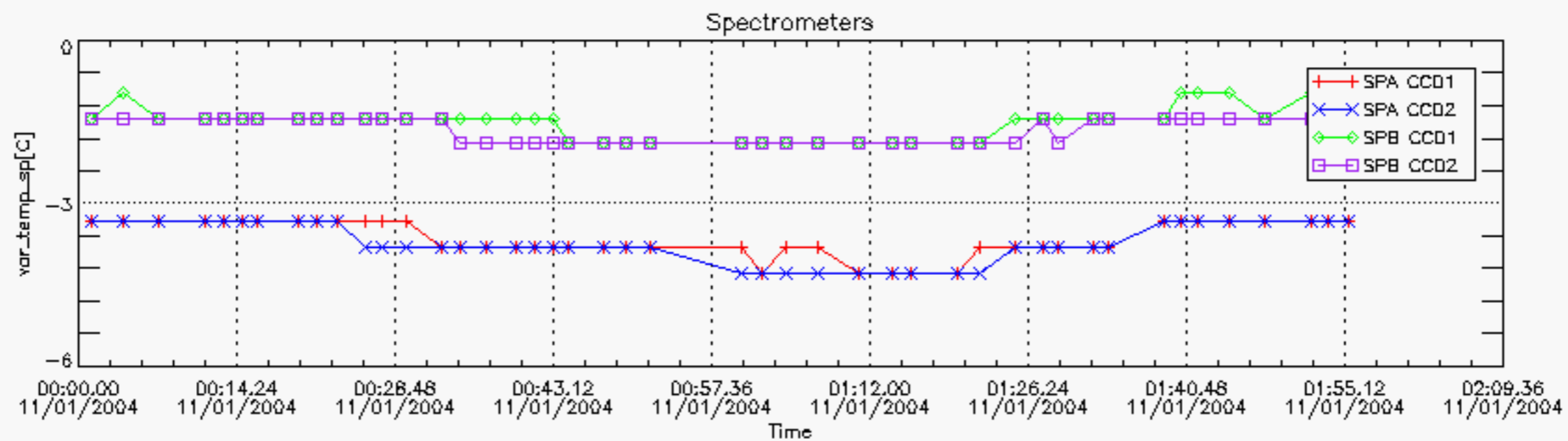
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

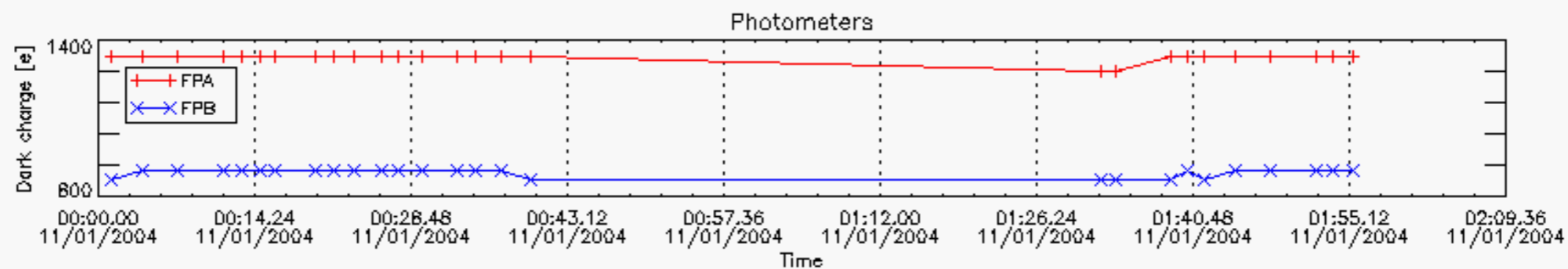
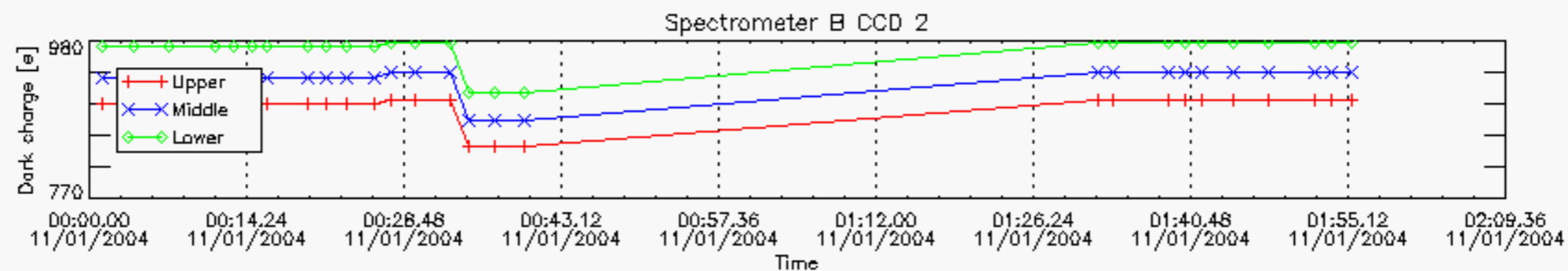
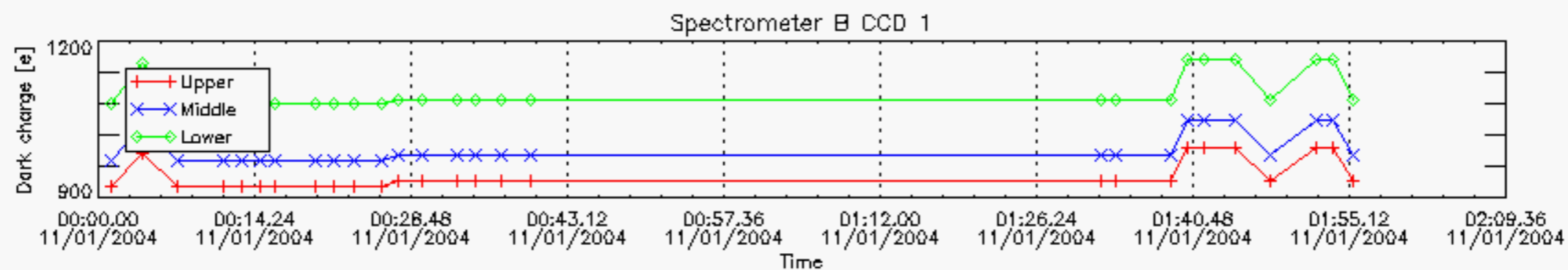
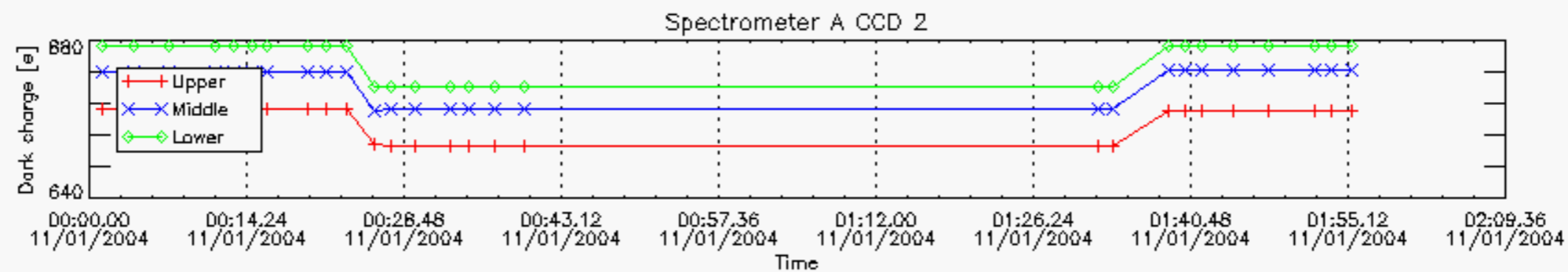
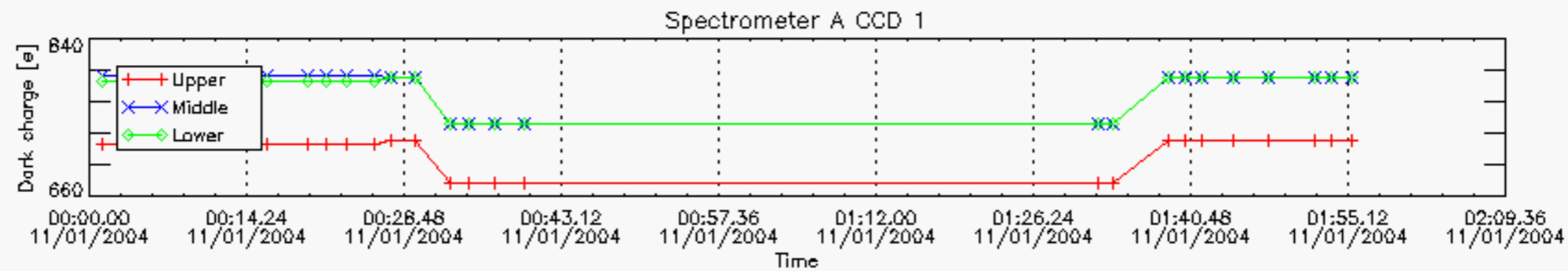
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1446.9	1460.7	1448.0
St. deviation:	5.7018	6.9865	6.9374	8.0079
Maximum:	1766.0	1679.0	1517.0	1517.0
Minimum:	1442.0	1431.0	1433.0	1411.0
Number of data:	32000.	32000.	21950.	21950.

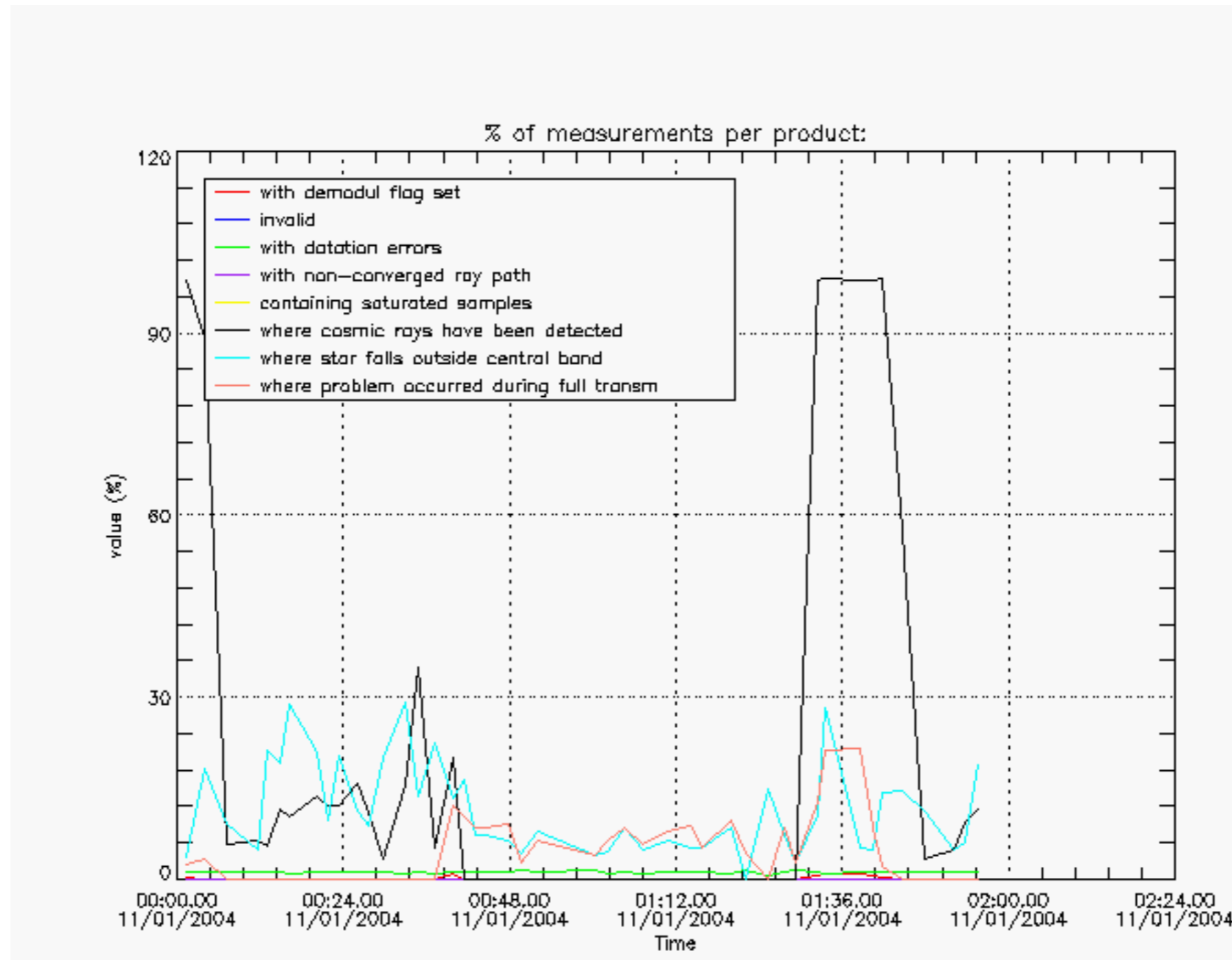




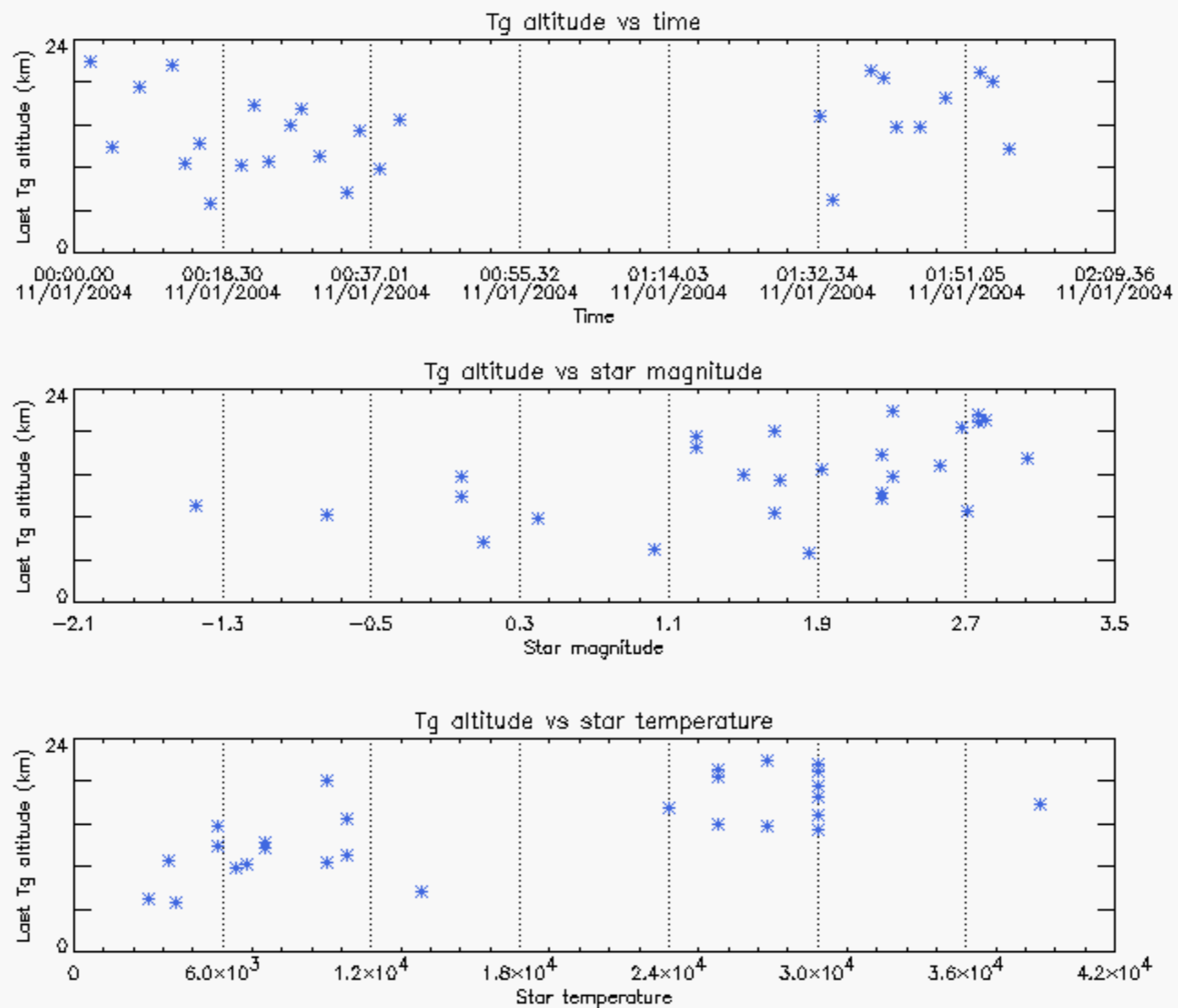






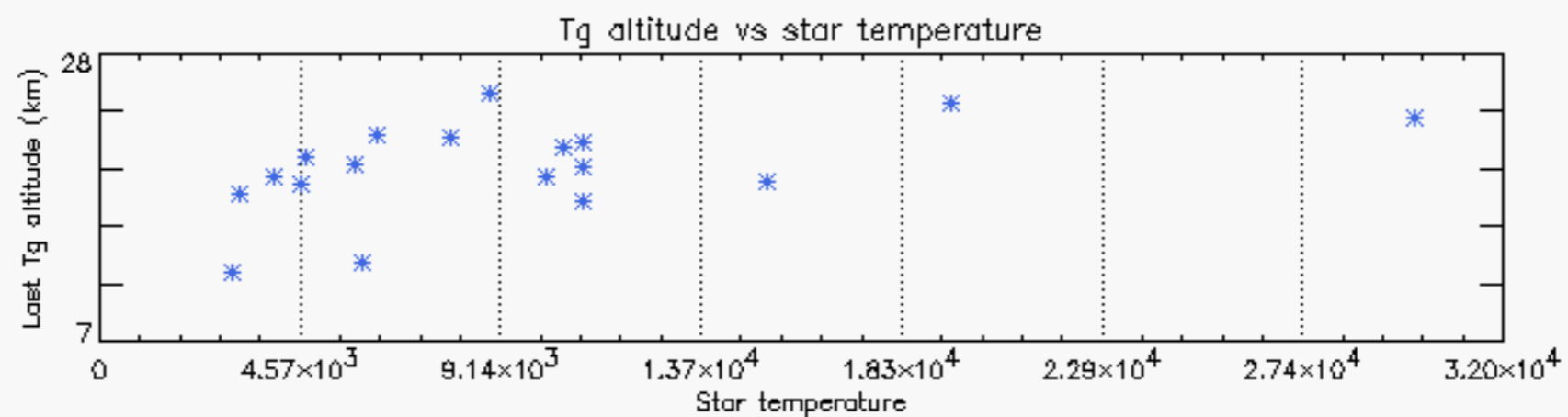
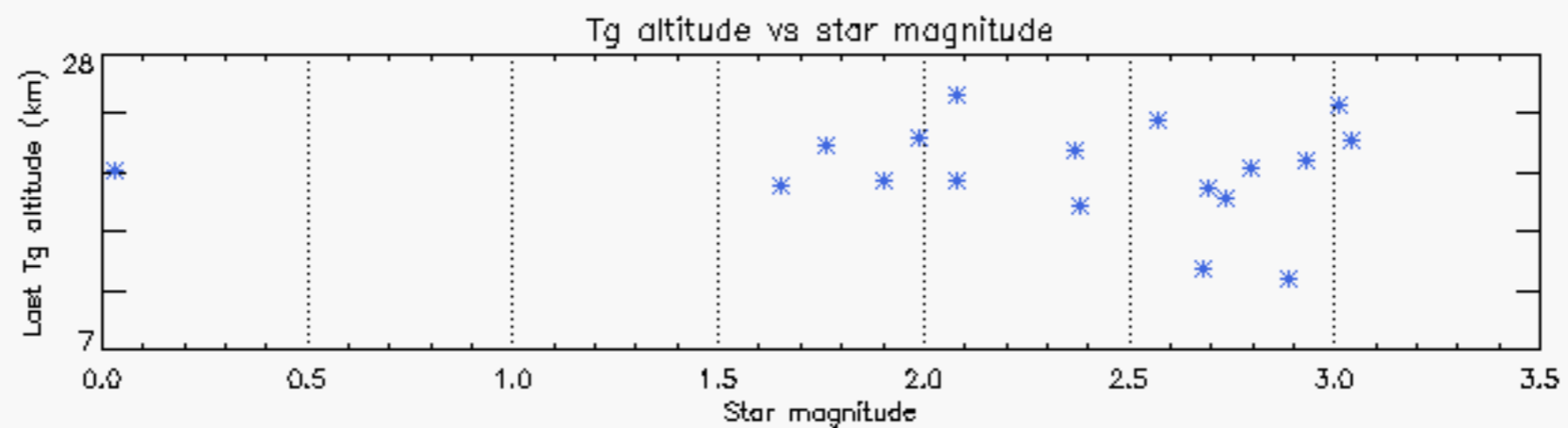
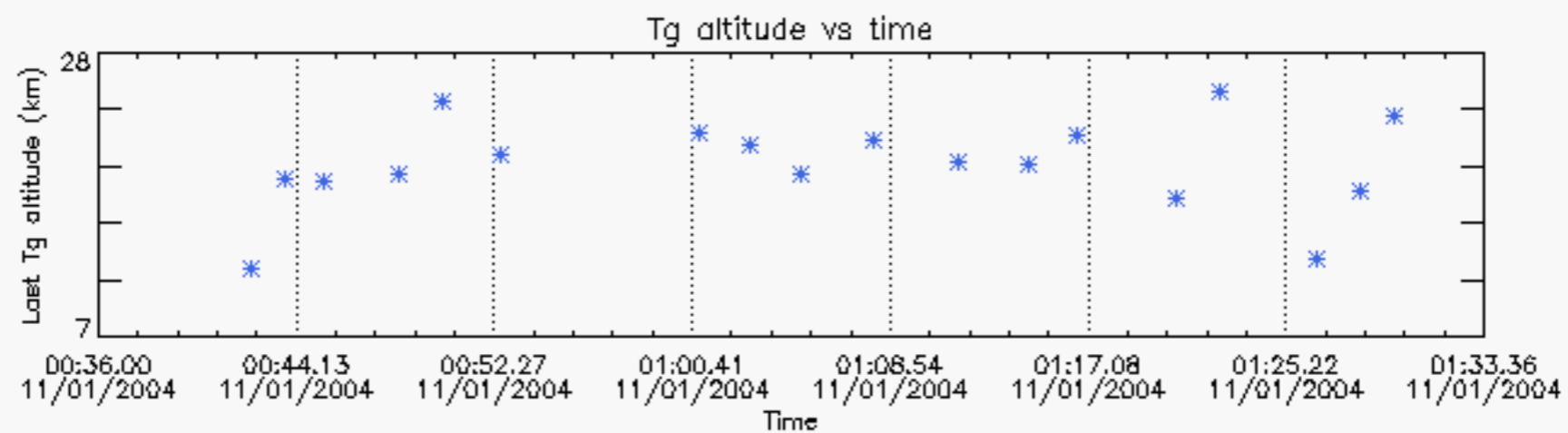


Tangent altitude at which the star is lost





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
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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
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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
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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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21;-980.3; 08-JAN-2004 08:04:10; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0; 9708
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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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34; 1092.8; 08-JAN-2004 08:38:43; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0; 9709
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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7;-3557.1; 08-JAN-2004 09:01:49; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0; 9709
8;-3397.2; 08-JAN-2004 09:04:29; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0; 9709
9;-3259.3; 08-JAN-2004 09:06:47; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0; 9709
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21;-980.6; 08-JAN-2004 09:44:46; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0; 9709
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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33; 1092.9; 08-JAN-2004 10:19:19; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0; 9710
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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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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
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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11;	-3734.9;	08-JAN-2004	19:02:27;	Bright	;	47.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	94;	0;	9715
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
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
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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
36;	582.9;	08-JAN-2004	20:14:25;	Dark	;	40.0;	29;	Bet Car	;	1.67;	10200;	occ;	80;	0;	9716
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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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
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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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16;-1968.4; 11-JAN-2004 07:53:26; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9751
17;-1788.0; 11-JAN-2004 07:56:27; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0; 9751
18;-1683.5; 11-JAN-2004 07:58:11; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9751
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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
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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
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 33; 348.1; 11-JAN-2004 18:35:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9758  
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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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