

# GOMOS Daily Report 08-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	09JAN2004 06:51:09
Data source version	<Any version>
Start time of products	08-JAN-2004 (08JAN2004 00:00:00)
Stop time of products	09-JAN-2004 (09JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	47
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

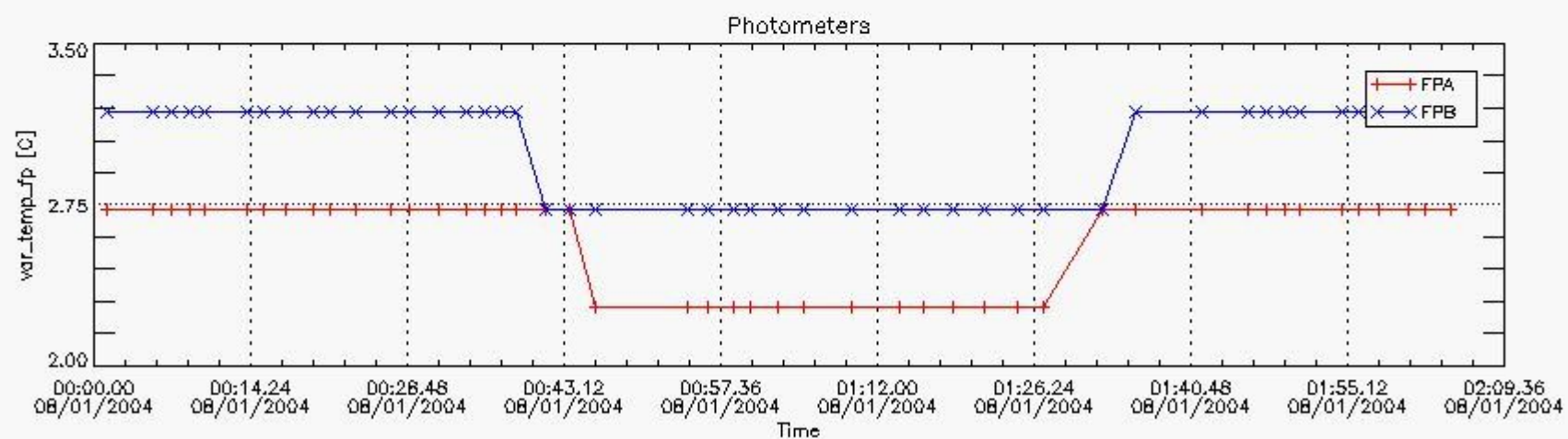
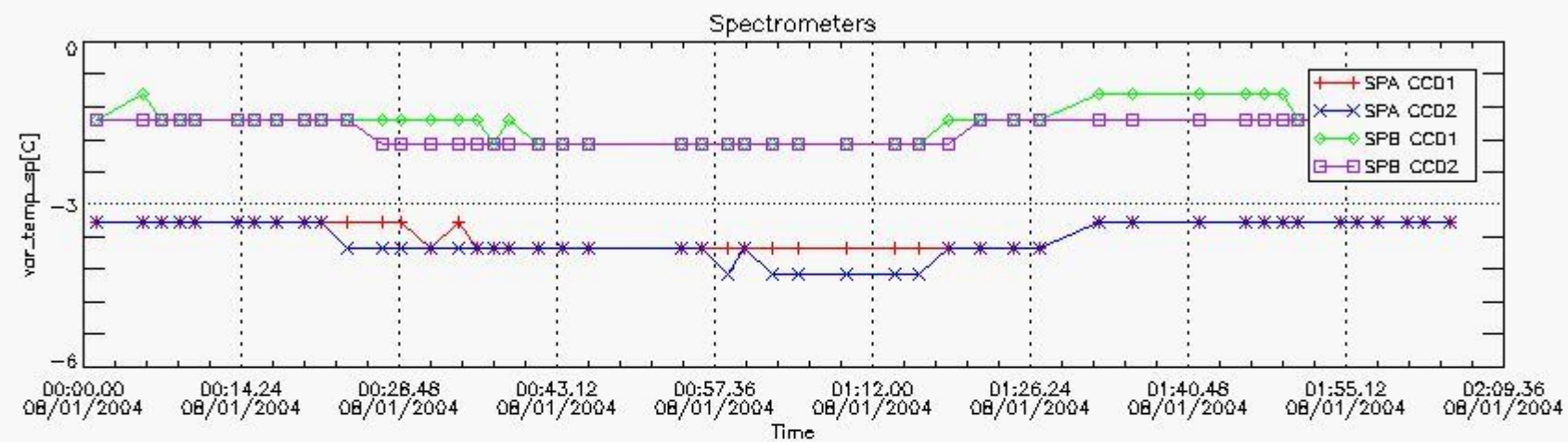
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040108_000108_000000432023_00131_09704_0029.N1	08-JAN-2004 00:01:08	Dark	43.000	20	Bet Cru	1.2530	30000.	86	9704	No
GOM_TRA_1PNPDE20040108_000527_000000422023_00131_09704_0030.N1	08-JAN-2004 00:05:27	Dark	41.500	124	The Car	2.7640	30000.	83	9704	No
GOM_TRA_1PNPDE20040108_000709_000000422023_00131_09704_0031.N1	08-JAN-2004 00:07:09	Dark	41.500	29	Bet Car	1.6720	10200.	83	9704	No
GOM_TRA_1PNPDE20040108_000848_000000442023_00131_09704_0032.N1	08-JAN-2004 00:08:48	Dark	44.000	71	lot Car	2.2460	7700.0	88	9704	No
GOM_TRA_1PNPDE20040108_001012_000000512023_00131_09704_0033.N1	08-JAN-2004 00:10:12	Dark	51.000	41	Eps Car	1.8600	4100.0	102	9704	No
GOM_TRA_1PNPDE20040108_001408_000000482023_00131_09704_0034.N1	08-JAN-2004 00:14:08	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	9704	No
GOM_TRA_1PNPDE20040108_001538_000000482023_00131_09704_0035.N1	08-JAN-2004 00:15:38	Dark	48.000	70	Zet Pup	2.2460	39000.	96	9704	No
GOM_TRA_1PNPDE20040108_001734_000000482023_00131_09704_0036.N1	08-JAN-2004 00:17:34	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	9704	No
GOM_TRA_1PNPDE20040108_002013_000000472023_00131_09704_0037.N1	08-JAN-2004 00:20:13	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	9704	No
GOM_TRA_1PNPDE20040108_002143_000000452023_00131_09704_0001.N1	08-JAN-2004 00:21:43	Dark	45.000	179	24Omi2CMa	3.0320	24000.	90	9704	No
GOM_TRA_1PNPDE20040108_002403_000000542023_00131_09704_0002.N1	08-JAN-2004 00:24:03	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	9704	No
GOM_TRA_1PNPDE20040108_002712_000000522023_00131_09704_0003.N1	08-JAN-2004 00:27:12	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	9704	No
GOM_TRA_1PNPDE20040108_002858_000000422023_00131_09704_0004.N1	08-JAN-2004 00:28:58	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	9704	No
GOM_TRA_1PNPDE20040108_003138_000000722023_00131_09704_0005.N1	08-JAN-2004 00:31:38	Dark	72.000	8	10Alp CMi	0.40000	6500.0	144	9704	No
GOM_TRA_1PNPDE20040108_003414_000000472023_00131_09704_0006.N1	08-JAN-2004 00:34:14	Dark	46.500	44	24Gam Gem	1.9280	11000.	93	9704	No
GOM_TRA_1PNPDE20040108_003554_000000502023_00131_09704_0007.N1	08-JAN-2004 00:35:54	Bright	50.000	151	13Mu Gem	2.8900	3000.0	100	9704	No
GOM_TRA_1PNPDE20040108_003723_000000402023_00131_09704_0008.N1	08-JAN-2004 00:37:23	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	9704	No
GOM_TRA_1PNPDE20040108_003848_000000402023_00131_09704_0009.N1	08-JAN-2004 00:38:48	Bright	40.000	114	3lot Aur	2.6930	4600.0	80	9704	No
GOM_TRA_1PNPDE20040108_004127_000000382023_00131_09704_0010.N1	08-JAN-2004 00:41:27	Bright	38.000	149	45Eps Per	2.8880	30000.	76	9704	No
GOM_TRA_1PNPDE20040108_004345_000000372023_00131_09704_0011.N1	08-JAN-2004 00:43:45	Bright	36.500	175	39Del Per	3.0100	19400.	73	9704	No
GOM_TRA_1PNPDE20040108_004600_000000382023_00131_09704_0012.N1	08-JAN-2004 00:46:00	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	9704	No
GOM_TRA_1PNPDE20040108_005433_000000362023_00131_09704_0013.N1	08-JAN-2004 00:54:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	9704	No
GOM_TRA_1PNPDE20040108_005623_000000472023_00131_09704_0014.N1	08-JAN-2004 00:56:23	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	9704	No
GOM_TRA_1PNPDE20040108_005849_000000502023_00131_09704_0015.N1	08-JAN-2004 00:58:49	Bright	50.000	60	7Bet UMi	2.0810	3950.0	100	9704	No
GOM_TRA_1PNPDE20040108_010021_000000572023_00131_09704_0016.N1	08-JAN-2004 01:00:21	Bright	57.000	87	64Gam UMa	2.4330	11000.	114	9704	No
GOM_TRA_1PNPDE20040108_010254_000000382023_00131_09704_0017.N1	08-JAN-2004 01:02:54	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	9704	No
GOM_TRA_1PNPDE20040108_010512_000000372023_00131_09704_0018.N1	08-JAN-2004 01:05:12	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	9704	No
GOM_TRA_1PNPDE20040108_010933_000000692023_00131_09704_0019.N1	08-JAN-2004 01:09:33	Bright	68.500	152	12Alp2CVn	2.8900	11000.	137	9704	No
GOM_TRA_1PNPDE20040108_011403_000000492023_00131_09704_0020.N1	08-JAN-2004 01:14:03	Bright	49.000	83		2.3780	11000.	98	9704	No
GOM_TRA_1PNPDE20040108_011612_000000362023_00131_09704_0021.N1	08-JAN-2004 01:16:12	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	9704	No
GOM_TRA_1PNPDE20040108_011856_000000692023_00131_09704_0022.N1	08-JAN-2004 01:18:56	Bright	68.500	111	8Eta Boo	2.6800	6000.0	137	9704	No
GOM_TRA_1PNPDE20040108_012145_000000402023_00131_09704_0023.N1	08-JAN-2004 01:21:45	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	9704	No
GOM_TRA_1PNPDE20040108_012450_000000482023_00131_09704_0024.N1	08-JAN-2004 01:24:50	Dark	47.500	104	27Bet Lib	2.6140	13100.	95	9704	No
GOM_TRA_1PNPDE20040108_012713_000000442023_00131_09704_0025.N1	08-JAN-2004 01:27:13	Dark	44.000	80	7Del Sco	2.3160	30000.	88	9704	No
GOM_TRA_1PNPDE20040108_013240_000000842023_00131_09704_0026.N1	08-JAN-2004 01:32:40	Dark	83.500	15	67Alp Vir	0.97600	28000.	167	9704	No
GOM_TRA_1PNPDE20040108_013539_000000432023_00131_09704_0027.N1	08-JAN-2004 01:35:39	Dark	42.500	78	Alp Lup	2.3040	28000.	85	9704	No
GOM_TRA_1PNPDE20040108_014145_000000442023_00132_09705_0028.N1	08-JAN-2004 01:41:45	Dark	44.000	20	Bet Cru	1.2530	30000.	88	9705	No
GOM_TRA_1PNPDE20040108_014604_000000402023_00132_09705_0029.N1	08-JAN-2004 01:46:04	Dark	40.000	124	The Car	2.7640	30000.	80	9705	No
GOM_TRA_1PNPDE20040108_014745_000000412023_00132_09705_0030.N1	08-JAN-2004 01:47:45	Dark	41.000	29	Bet Car	1.6720	10200.	82	9705	No
GOM_TRA_1PNPDE20040108_014924_000000422023_00132_09705_0031.N1	08-JAN-2004 01:49:24	Dark	41.500	71	lot Car	2.2460	7700.0	83	9705	No
GOM_TRA_1PNPDE20040108_015050_000000502023_00132_09705_0032.N1	08-JAN-2004 01:50:50	Dark	49.500	41	Eps Car	1.8600	4100.0	99	9705	No
GOM_TRA_1PNPDE20040108_015444_000000522023_00132_09705_0033.N1	08-JAN-2004 01:54:44	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9705	No
GOM_TRA_1PNPDE20040108_015615_000000482023_00132_09705_0034.N1	08-JAN-2004 01:56:15	Dark	48.000	70	Zet Pup	2.2460	39000.	96	9705	No
GOM_TRA_1PNPDE20040108_015809_000000482023_00132_09705_0035.N1	08-JAN-2004 01:58:09	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	9705	No
GOM_TRA_1PNPDE20040108_020049_000000492023_00132_09705_0036.N1	08-JAN-2004 02:00:49	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	9705	No
GOM_TRA_1PNPDE20040108_020218_000000442023_00132_09705_0000.N1	08-JAN-2004 02:02:18	Dark	44.000	179	24Omi2CMa	3.0320	24000.	88	9705	No
GOM_TRA_1PNPDE20040108_020438_000000532023_00132_09705_0001.N1	08-JAN-2004 02:04:38	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	9705	No

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



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

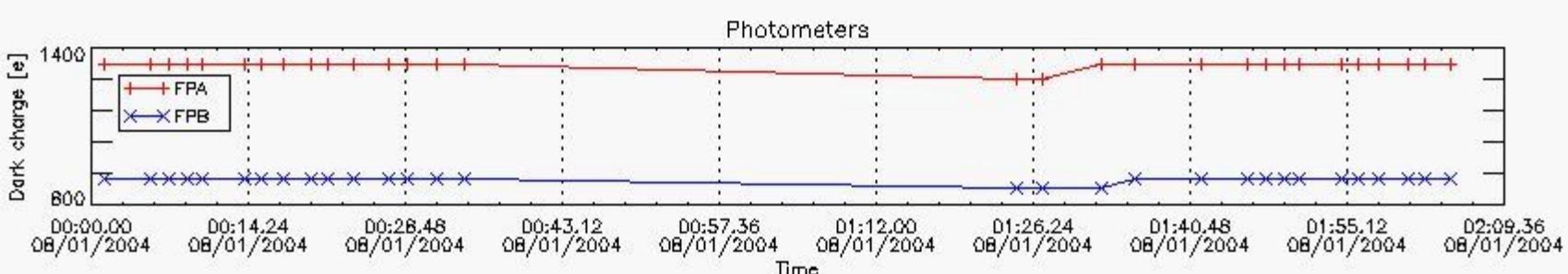
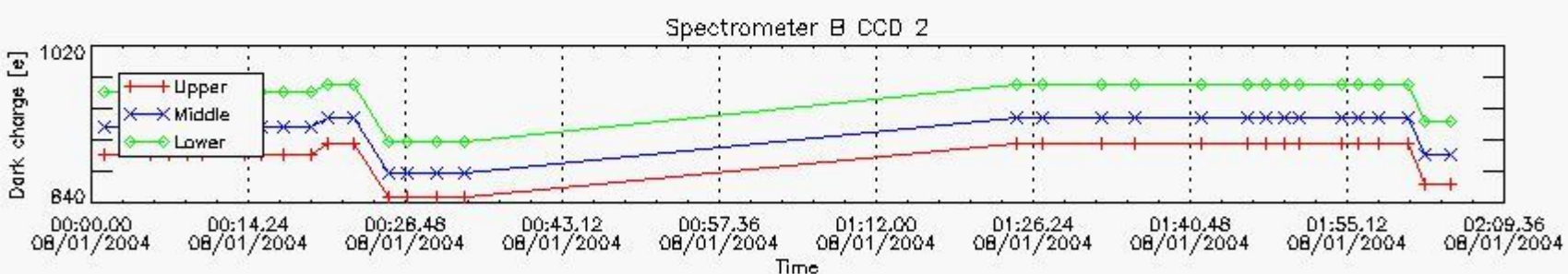
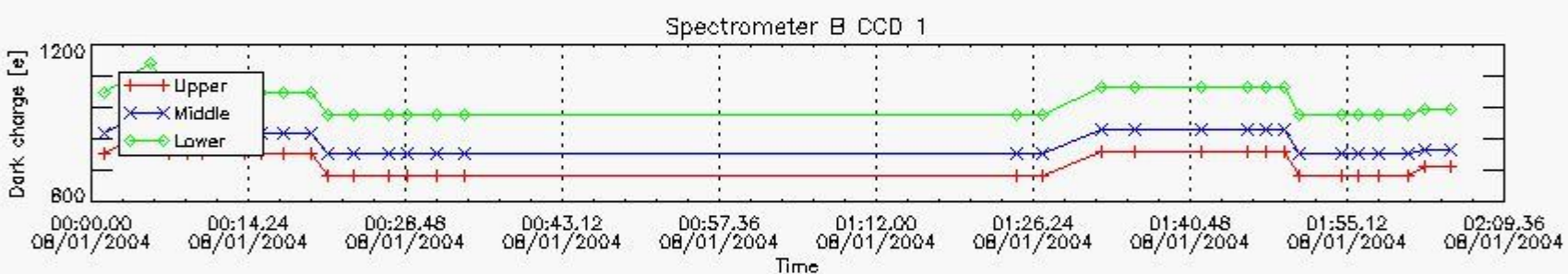
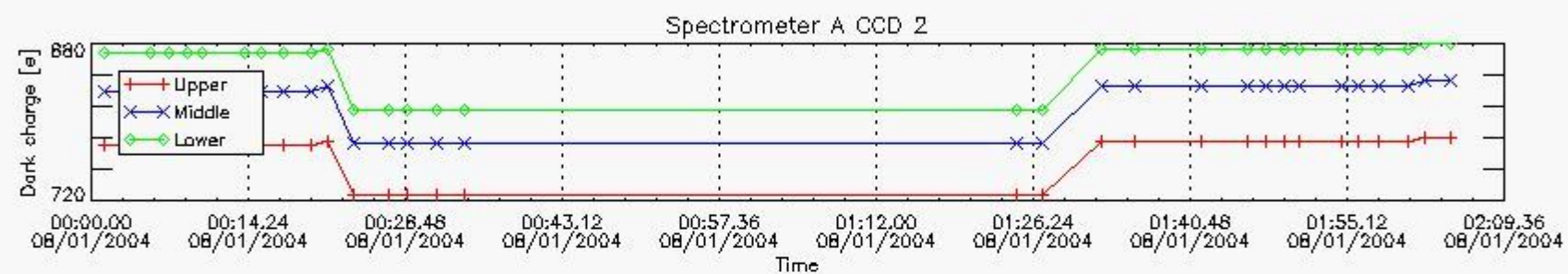
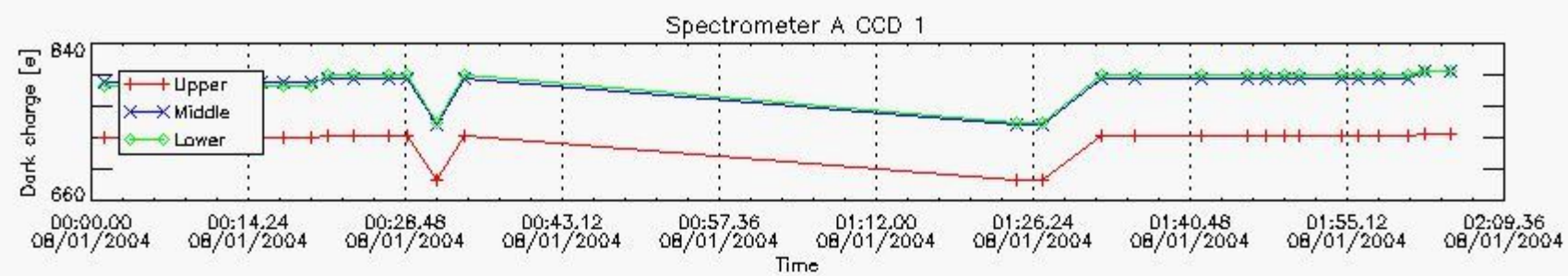
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





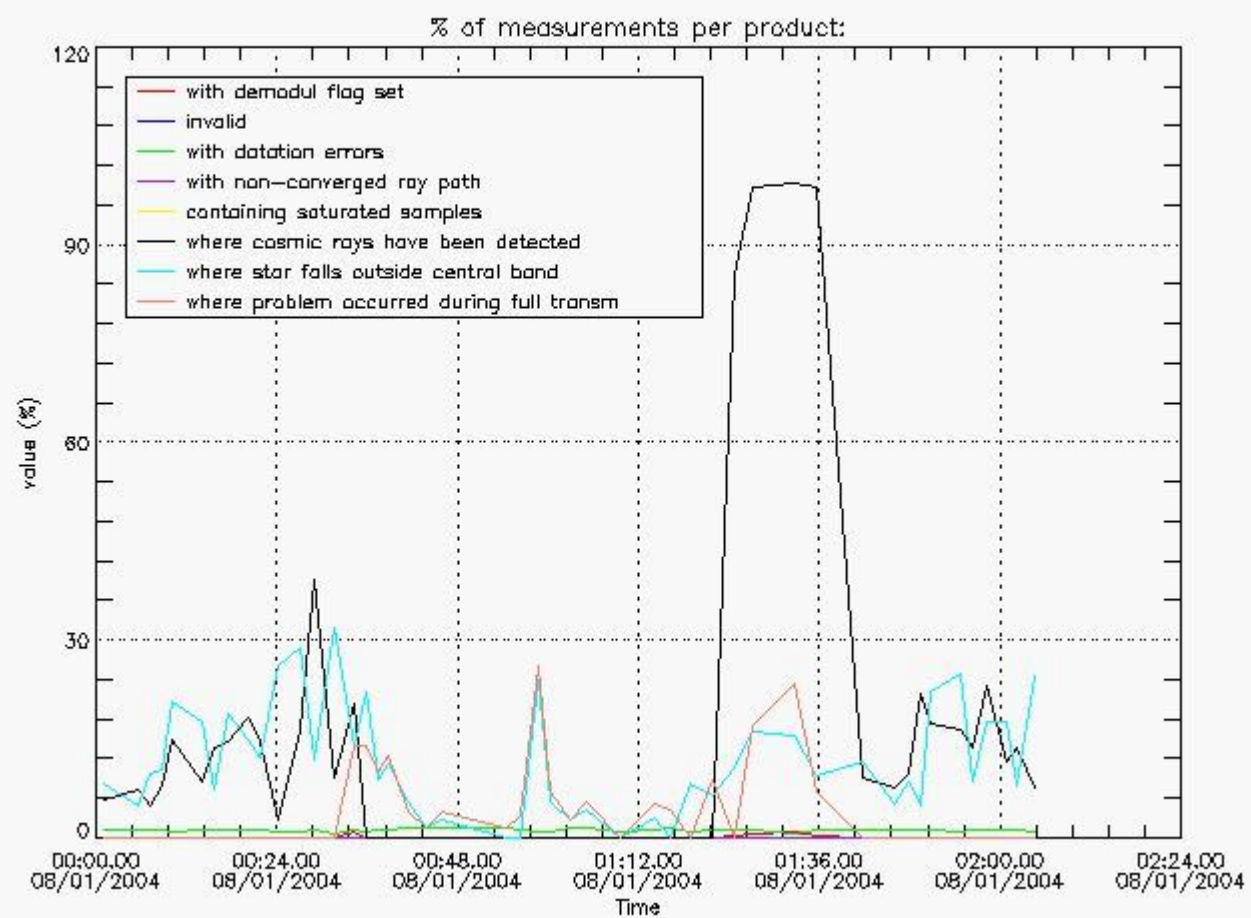
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	19.1489 %
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



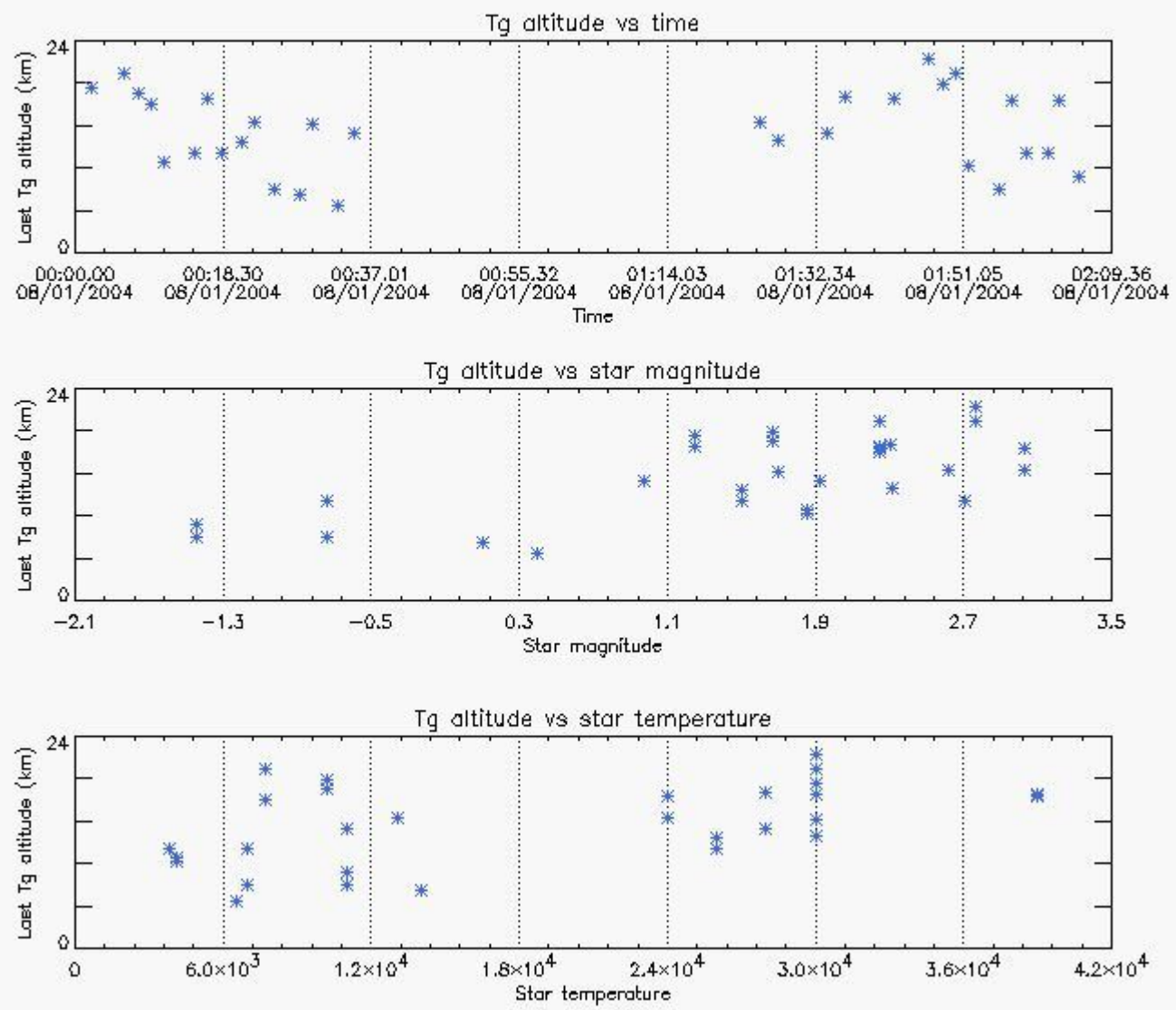
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.973	20.198
St. deviation:	4.5291	5.0912
Maximum:	21.937	25.263
Minimum:	5.2465	8.3279
Number of data:	30.000	17.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

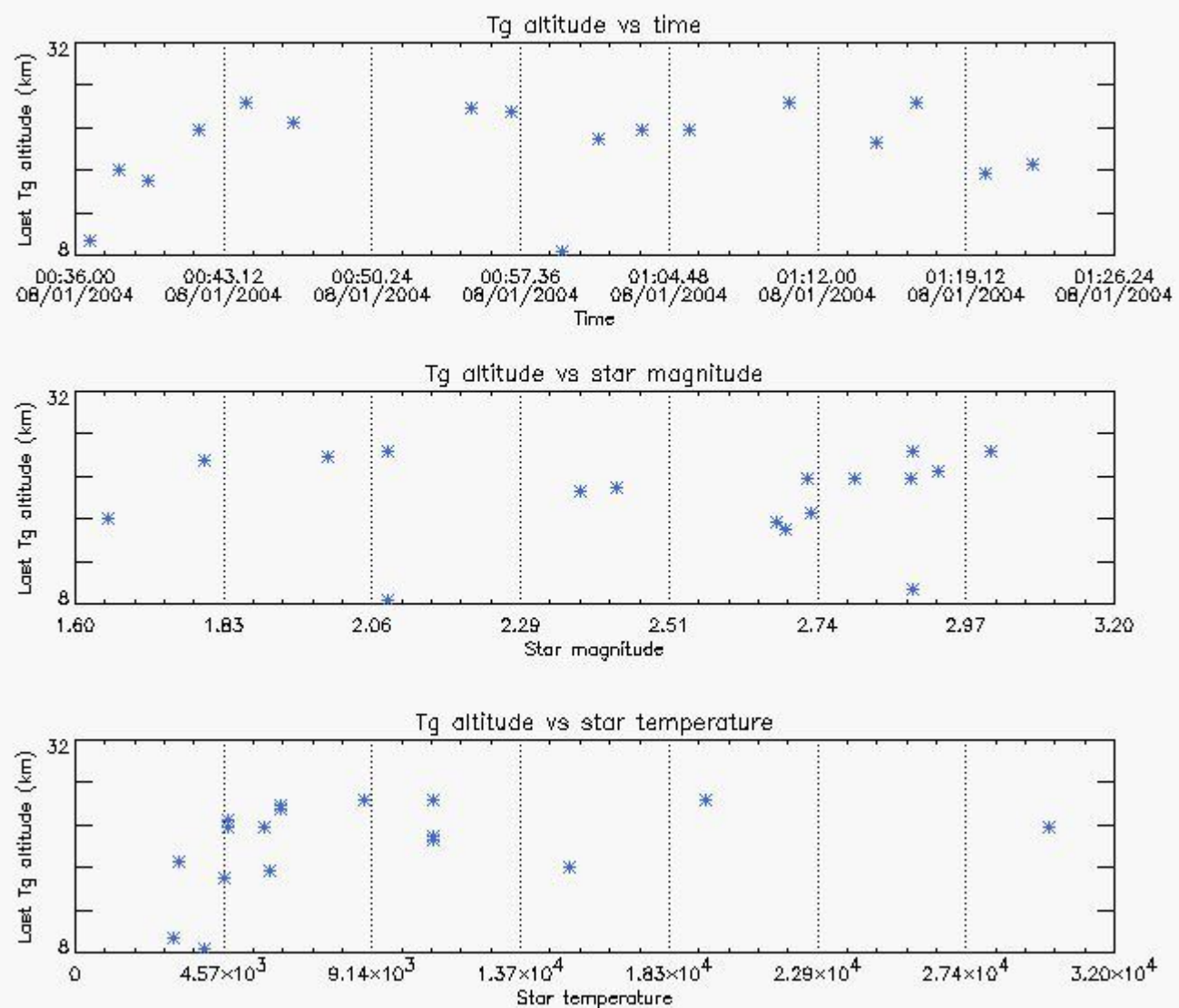


6.3 Plot for BRIGHT limb products





## 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

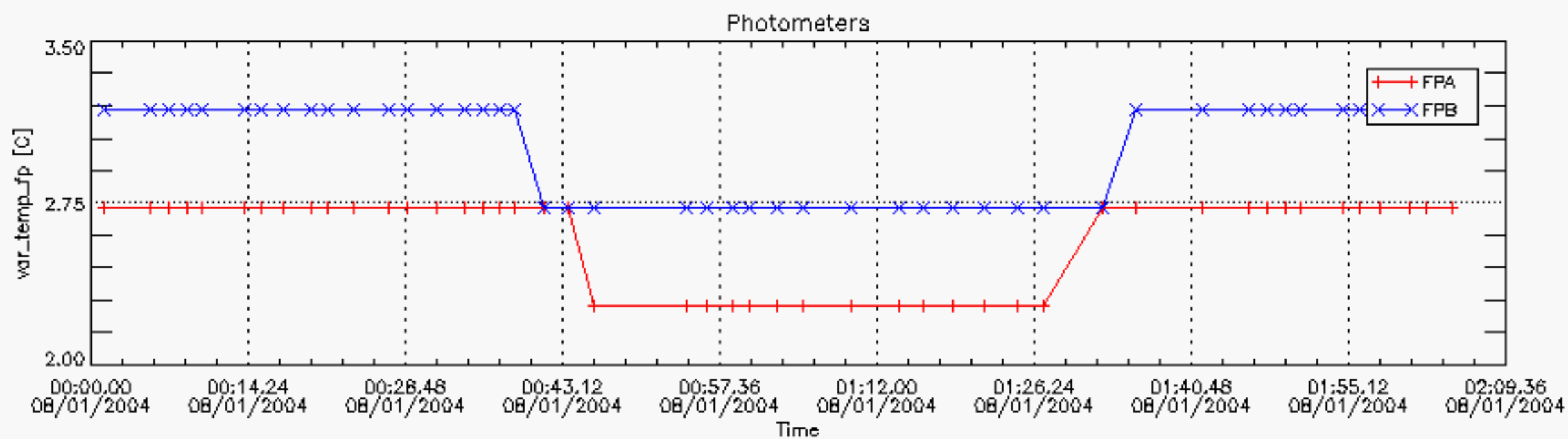
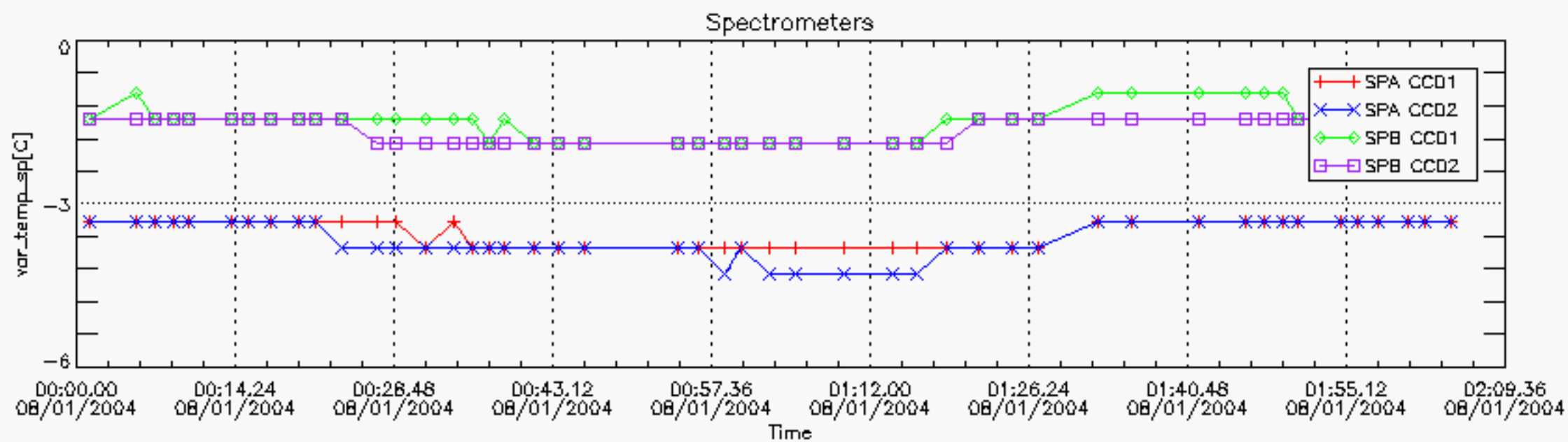
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

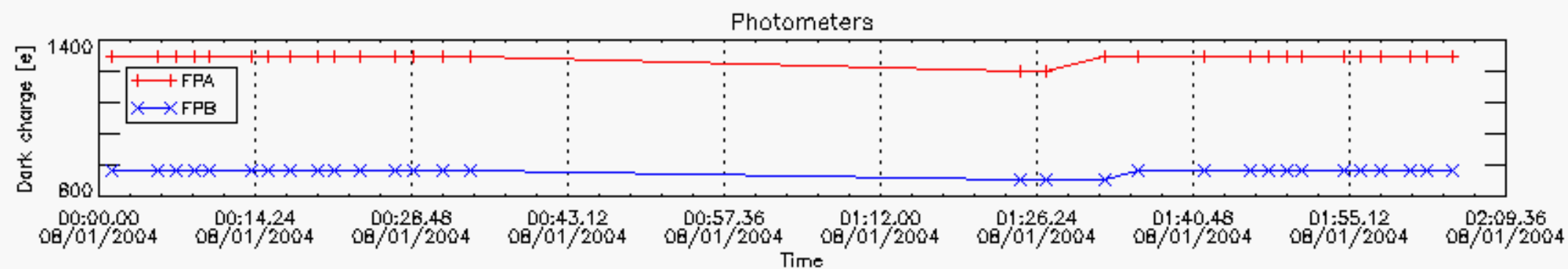
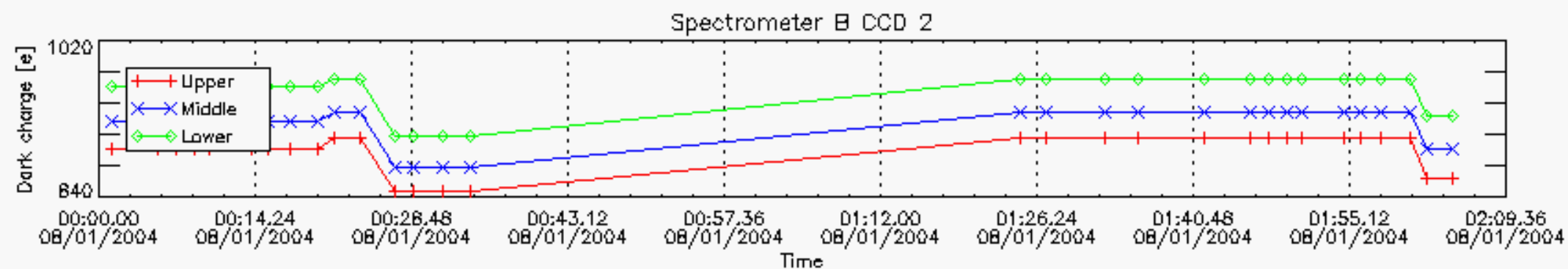
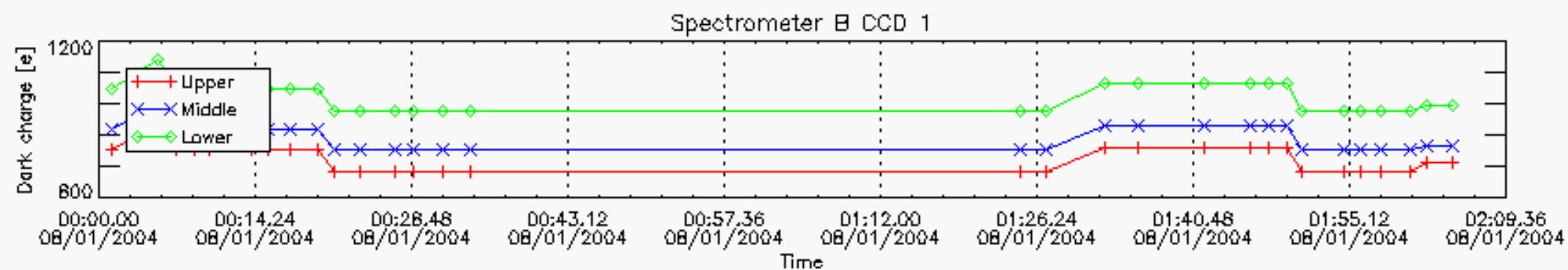
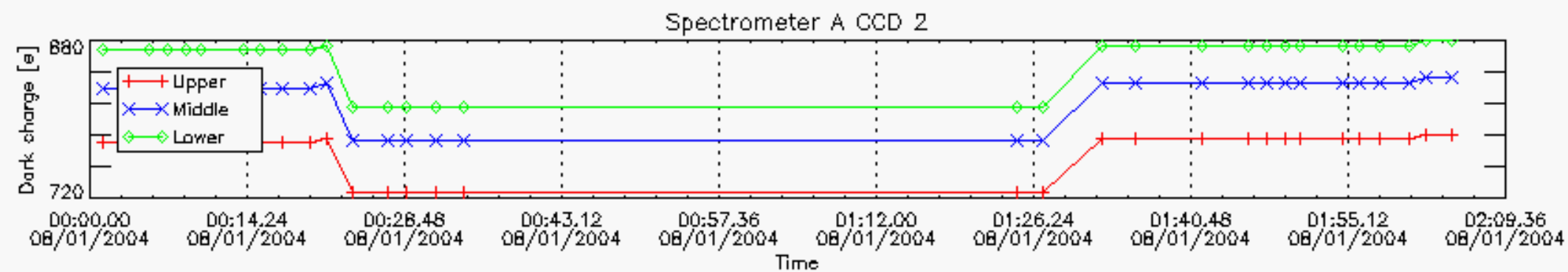
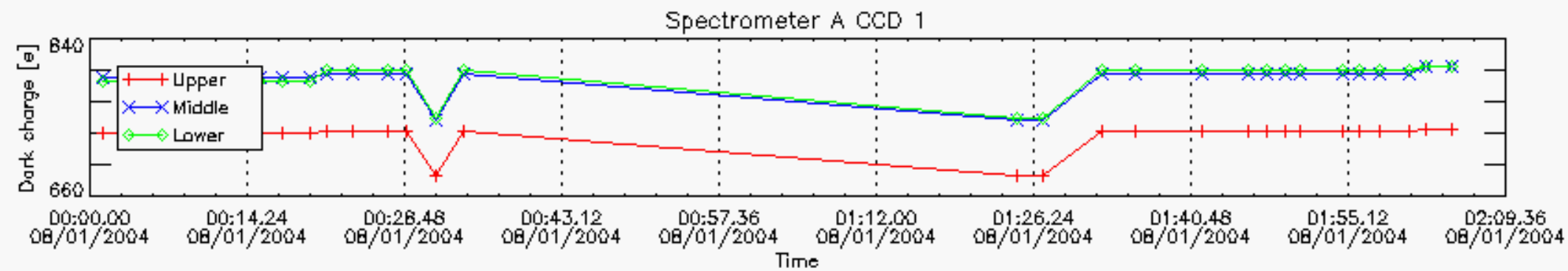
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.4	1460.7	1447.6
St. deviation:	5.0250	6.5125	7.4380	8.7195
Maximum:	1615.0	1768.0	1518.0	1510.0
Minimum:	1456.0	1428.0	1450.0	1429.0
Number of data:	36750.	36750.	20000.	20000.

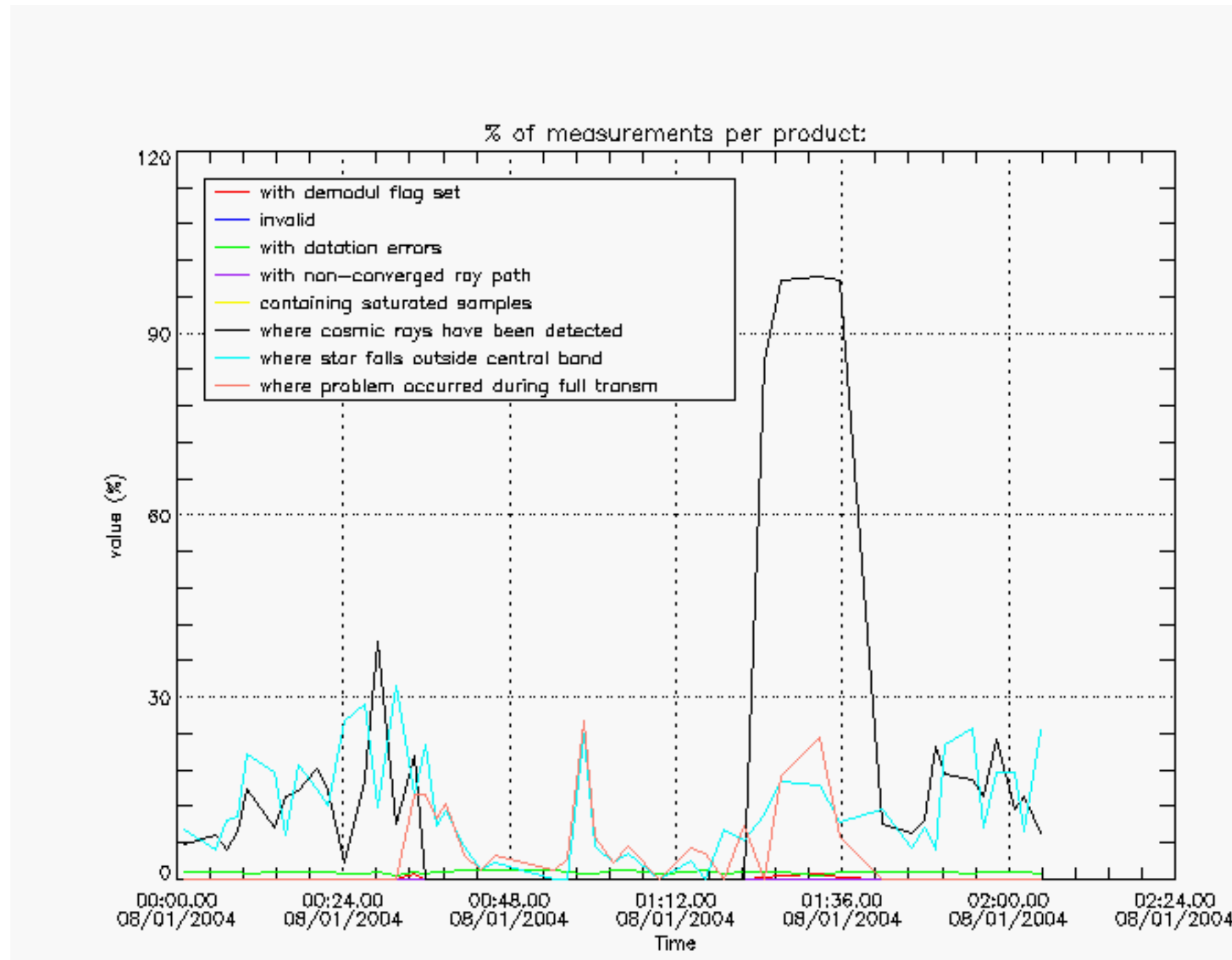




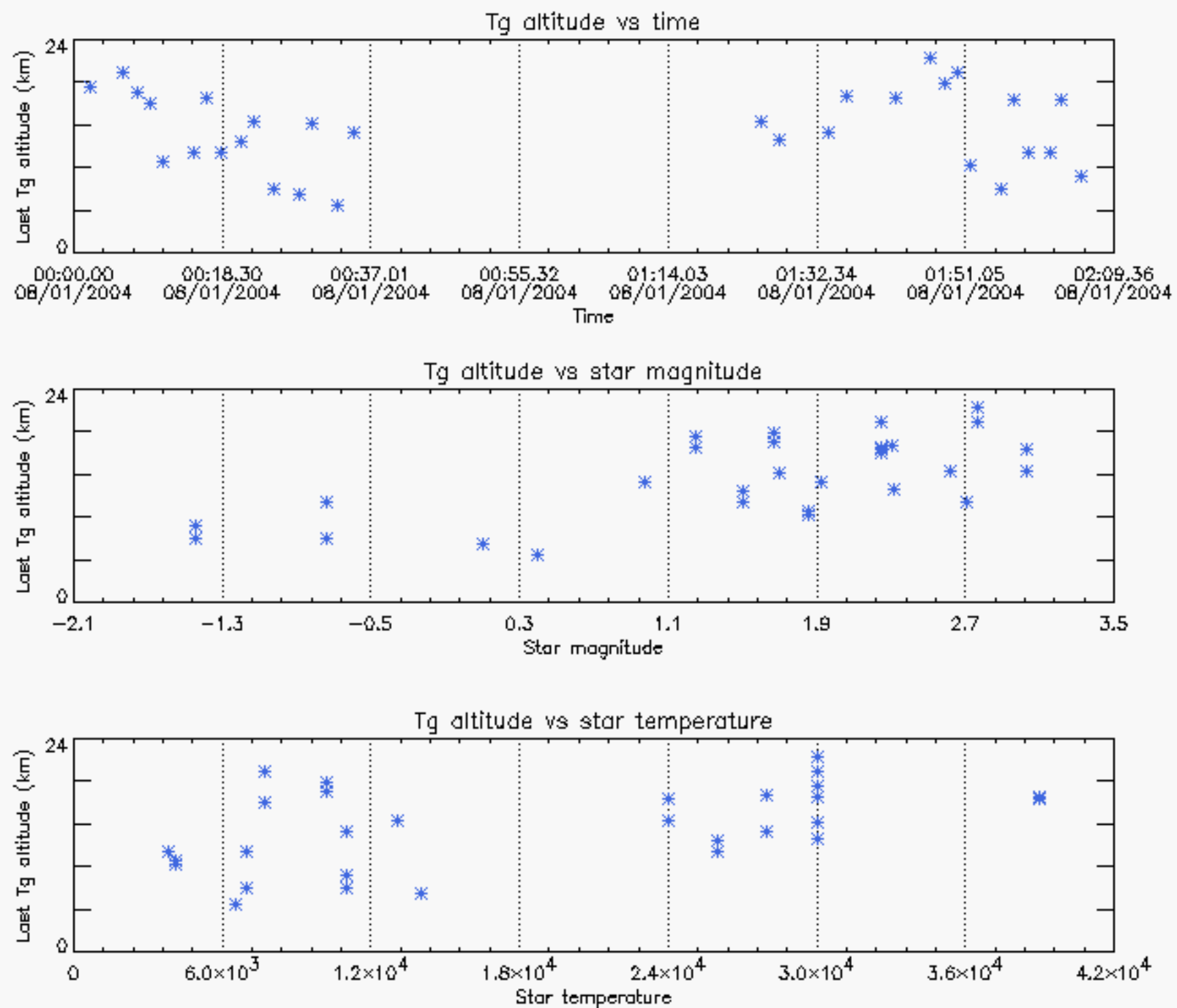






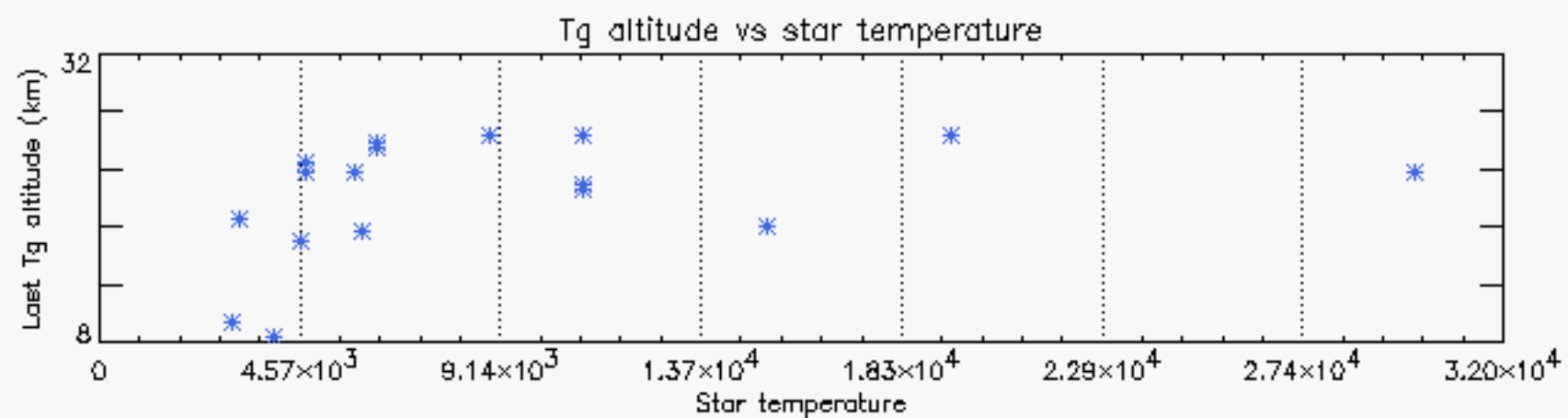
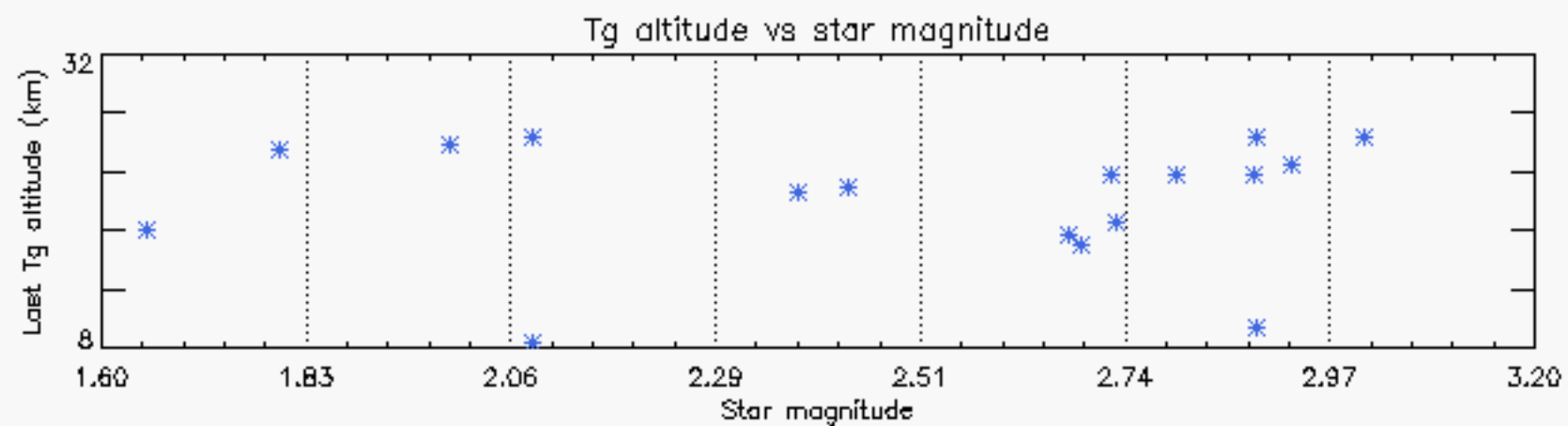
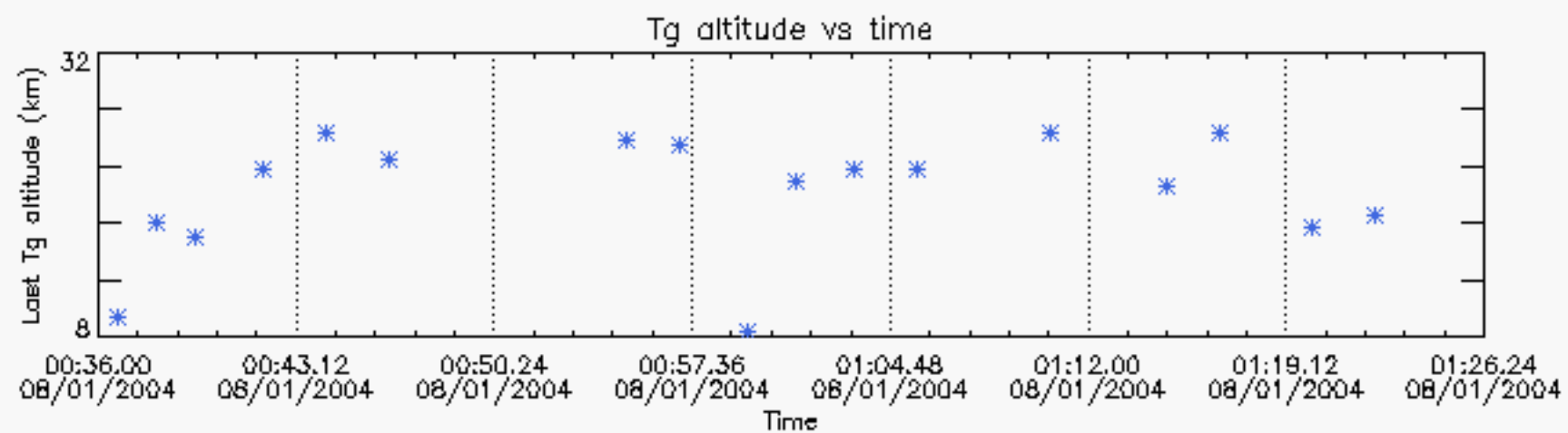


Tangent altitude at which the star is lost





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  
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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
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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
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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
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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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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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25;	-1313.8;	08-JAN-2004	19:42:48;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9715
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27;	-978.7;	08-JAN-2004	19:48:23;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9715
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16;	-3257.1;	08-JAN-2004	20:51:01;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9716
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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
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22;	-1972.4;	08-JAN-2004	21:12:25;	Bright	;	52.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	104;	0;	9716
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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
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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

29; -206.9; 11-JAN-2004 18:26:23; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9757  
 30; -116.2; 11-JAN-2004 18:27:54; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0; 9757  
 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  
 35; 596.9; 11-JAN-2004 18:39:47; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0; 9758  
 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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 3; -4005.7; 11-JAN-2004 09:00:05; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0; 9752  
 4; -3841.0; 11-JAN-2004 09:02:50; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9752  
 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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 7; -3550.4; 11-JAN-2004 09:07:40; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9752  
 8; -3361.0; 11-JAN-2004 09:10:50; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0; 9752  
 9; -3243.9; 11-JAN-2004 09:12:47; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9752  
 10; -3106.0; 11-JAN-2004 09:15:05; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0; 9752  
 11; -2612.7; 11-JAN-2004 09:23:18; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0; 9752  
 12; -2507.4; 11-JAN-2004 09:25:03; Bright; 52.5; 82; 48Bet UMa ; 2.37; 10600;occ; 105; 0; 9752  
 13; -2363.9; 11-JAN-2004 09:27:27; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0; 9752  
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 16; -1787.8; 11-JAN-2004 09:37:03; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0; 9752  
 17; -1683.5; 11-JAN-2004 09:38:47; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9752  
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 19; -1306.9; 11-JAN-2004 09:45:04; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0; 9752  
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 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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 23; -306.4; 11-JAN-2004 10:01:44; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 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  
 31; 783.0; 11-JAN-2004 10:19:54; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0; 9753  
 32; 1010.6; 11-JAN-2004 10:23:41; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0; 9753  
 33; 1111.1; 11-JAN-2004 10:25:22; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0; 9753  
 34; 1217.7; 11-JAN-2004 10:27:08; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0; 9753  
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 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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 4; -4141.4; 11-JAN-2004 12:19:01; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0; 9754  
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 6; -3841.2; 11-JAN-2004 12:24:01; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9754  
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 9; -3550.7; 11-JAN-2004 12:28:52; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9754  
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 17; -1787.7; 11-JAN-2004 12:58:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0; 9754  
 18; -1684.3; 11-JAN-2004 12:59:58; Bright; 50.0; 180; 27Gam Boo ; 3.04; 8000;occ; 100; 0; 9754  
 19; -1430.8; 11-JAN-2004 13:04:12; Bright; 54.5; 83; ; 2.38; 11000;occ; 109; 0; 9754  
 20; -1306.6; 11-JAN-2004 13:06:16; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9754



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21;-1107.7; 11-JAN-2004 13:09:35; Bright; 76.0; 111; 8Eta Boo ; 2.68; 6000;occ; 152; 0; 9754
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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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