

# GOMOS Daily Report 27-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	29JAN2004 07:22:26
Data source version	<Any version>
Start time of products	27-JAN-2004 (27JAN2004 00:00:00)
Stop time of products	28-JAN-2004 (28JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	43
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

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

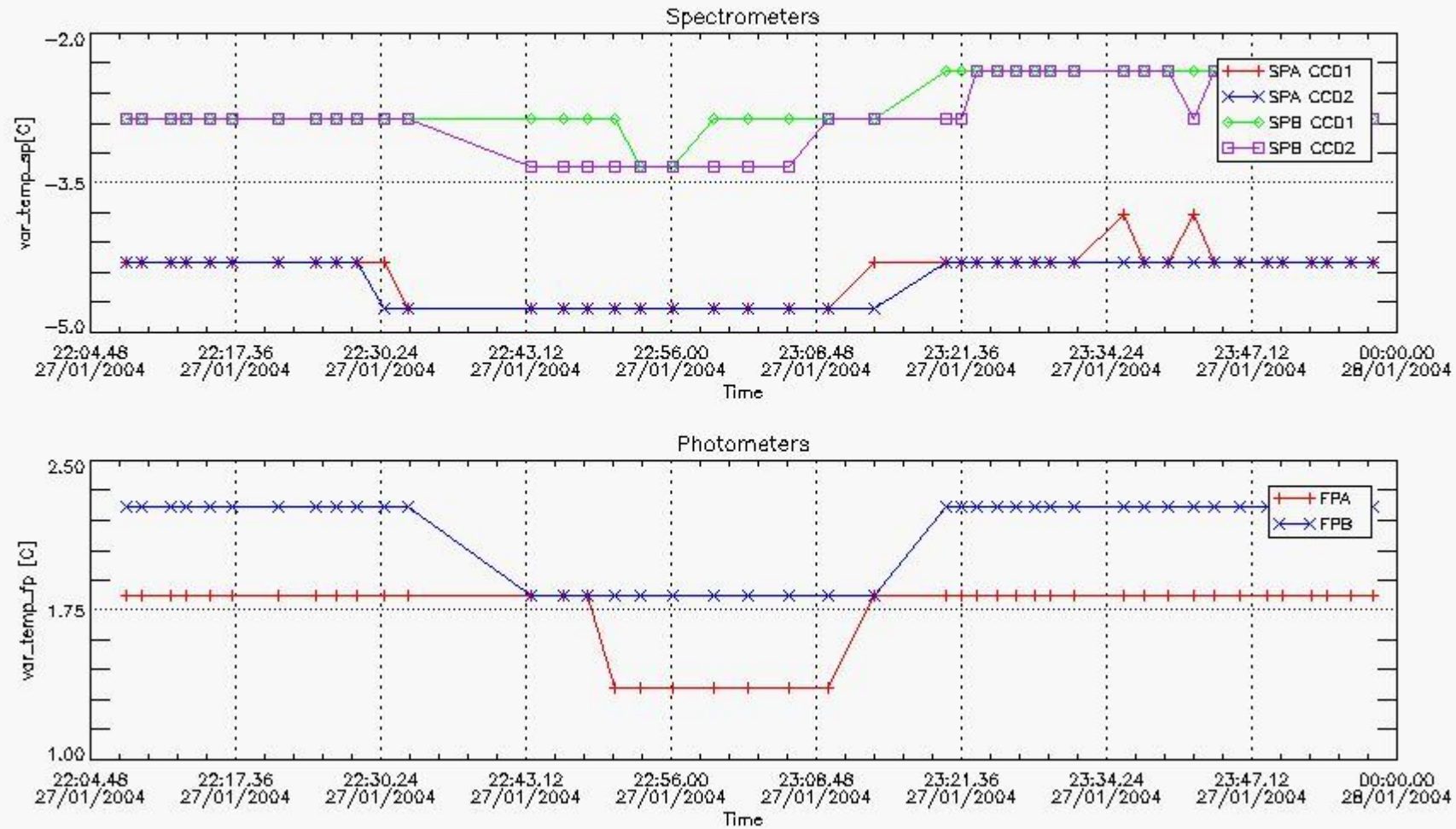
[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

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_1PNPDE20040127_220755_000000422023_00416_09989_0000.N1	27-JAN-2004 22:07:55	Dark	42.000	70	Zet Pup	2.2460	39000.	84	9989	No
GOM_TRA_1PNPDE20040127_220923_000000422023_00416_09989_0001.N1	27-JAN-2004 22:09:23	Dark	41.500	117	Pi Pup	2.7060	3800.0	83	9989	No
GOM_TRA_1PNPDE20040127_221149_000000432023_00416_09989_0002.N1	27-JAN-2004 22:11:49	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	9989	No
GOM_TRA_1PNPDE20040127_221312_000000382023_00416_09989_0003.N1	27-JAN-2004 22:13:12	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	9989	No
GOM_TRA_1PNPDE20040127_221522_000000452023_00416_09989_0004.N1	27-JAN-2004 22:15:22	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	9989	No
GOM_TRA_1PNPDE20040127_221719_000000662023_00416_09989_0005.N1	27-JAN-2004 22:17:19	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	9989	No
GOM_TRA_1PNPDE20040127_222120_000000472023_00416_09989_0006.N1	27-JAN-2004 22:21:20	Dark	47.000	8	10Alp CMi	0.40000	6500.0	94	9989	No
GOM_TRA_1PNPDE20040127_222438_000000392023_00416_09989_0007.N1	27-JAN-2004 22:24:38	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	9989	No
GOM_TRA_1PNPDE20040127_222626_000000392023_00416_09989_0008.N1	27-JAN-2004 22:26:26	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	9989	No
GOM_TRA_1PNPDE20040127_222813_000000432023_00416_09989_0009.N1	27-JAN-2004 22:28:13	Bright	43.000	17	78Bet Gem	1.1610	4500.0	86	9989	No
GOM_TRA_1PNPDE20040127_223041_000000372023_00416_09989_0010.N1	27-JAN-2004 22:30:41	Bright	37.000	107	37The Aur	2.6490	11000.	74	9989	No
GOM_TRA_1PNPDE20040127_223248_000000382023_00416_09989_0011.N1	27-JAN-2004 22:32:48	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	9989	No
GOM_TRA_1PNPDE20040127_224337_000000442023_00416_09989_0012.N1	27-JAN-2004 22:43:37	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	9989	No
GOM_TRA_1PNPDE20040127_224631_000000552023_00416_09989_0013.N1	27-JAN-2004 22:46:31	Bright	54.500	87	64Gam UMa	2.4330	11000.	109	9989	No
GOM_TRA_1PNPDE20040127_224835_000000412023_00416_09989_0014.N1	27-JAN-2004 22:48:35	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	9989	No
GOM_TRA_1PNPDE20040127_225059_000000372023_00416_09989_0015.N1	27-JAN-2004 22:50:59	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	9989	No
GOM_TRA_1PNPDE20040127_225313_000000412023_00416_09989_0016.N1	27-JAN-2004 22:53:13	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	9989	No
GOM_TRA_1PNPDE20040127_225612_000000382023_00416_09989_0017.N1	27-JAN-2004 22:56:12	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	9989	No
GOM_TRA_1PNPDE20040127_225942_000000352023_00416_09989_0018.N1	27-JAN-2004 22:59:42	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	9989	No
GOM_TRA_1PNPDE20040127_230244_000000412023_00416_09989_0019.N1	27-JAN-2004 23:02:44	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	9989	No
GOM_TRA_1PNPDE20040127_230621_000000772023_00416_09989_0020.N1	27-JAN-2004 23:06:21	Bright	77.000	83		2.3780	11000.	154	9989	No
GOM_TRA_1PNPDE20040127_230953_000000372023_00416_09989_0021.N1	27-JAN-2004 23:09:53	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	9989	No
GOM_TRA_1PNPDE20040127_231359_000002552023_00416_09989_0022.N1	27-JAN-2004 23:13:59	Dark	255.00	3	16Alp Boo	-0.050000	4250.0	510	9989	No
GOM_TRA_1PNPDE20040127_232017_000000562023_00416_09989_0023.N1	27-JAN-2004 23:20:17	Dark	56.000	16	21Alp Sco	1.0200	3000.0	112	9989	No
GOM_TRA_1PNPDE20040127_232137_000000462023_00416_09989_0024.N1	27-JAN-2004 23:21:37	Dark	46.000	75	26Eps Sco	2.2910	4250.0	92	9989	No
GOM_TRA_1PNPDE20040127_232255_000000402023_00416_09989_0025.N1	27-JAN-2004 23:22:55	Dark	40.000	40	The Sco	1.8590	7100.0	80	9989	No
GOM_TRA_1PNPDE20040127_232449_000000392023_00416_09989_0026.N1	27-JAN-2004 23:24:49	Dark	38.500	147	Alp Ara	2.8770	26000.	77	9989	No
GOM_TRA_1PNPDE20040127_232624_000000442023_00416_09989_0027.N1	27-JAN-2004 23:26:24	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	9989	No
GOM_TRA_1PNPDE20040127_232803_000000462023_00416_09989_0028.N1	27-JAN-2004 23:28:03	Dark	45.500	109	Bet Lup	2.6770	26000.	91	9989	No
GOM_TRA_1PNPDE20040127_232930_000000432023_00417_09990_0029.N1	27-JAN-2004 23:29:30	Dark	43.000	78	Alp Lup	2.3040	28000.	86	9990	No
GOM_TRA_1PNPDE20040127_233135_000000402023_00417_09990_0030.N1	27-JAN-2004 23:31:35	Dark	39.500	145	Gam TrA	2.8720	10600.	79	9990	No
GOM_TRA_1PNPDE20040127_233557_000000422023_00417_09990_0031.N1	27-JAN-2004 23:35:57	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	9990	No
GOM_TRA_1PNPDE20040127_233740_000000492023_00417_09990_0032.N1	27-JAN-2004 23:37:40	Dark	49.000	99	Del Cen	2.5750	26000.	98	9990	No
GOM_TRA_1PNPDE20040127_233947_000000422023_00417_09990_0033.N1	27-JAN-2004 23:39:47	Dark	42.000	29	Bet Car	1.6720	10200.	84	9990	No
GOM_TRA_1PNPDE20040127_234203_000000392023_00417_09990_0034.N1	27-JAN-2004 23:42:03	Dark	39.000	71	lot Car	2.2460	7700.0	78	9990	No
GOM_TRA_1PNPDE20040127_234351_000000412023_00417_09990_0035.N1	27-JAN-2004 23:43:51	Dark	41.000	46	Del Vel	1.9540	10600.	82	9990	No
GOM_TRA_1PNPDE20040127_234610_000000482023_00417_09990_0036.N1	27-JAN-2004 23:46:10	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	9990	No
GOM_TRA_1PNPDE20040127_234831_000000422023_00417_09990_0037.N1	27-JAN-2004 23:48:31	Dark	42.000	70	Zet Pup	2.2460	39000.	84	9990	No
GOM_TRA_1PNPDE20040127_234958_000000432023_00417_09990_0038.N1	27-JAN-2004 23:49:58	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	9990	No
GOM_TRA_1PNPDE20040127_235224_000000442023_00417_09990_0000.N1	27-JAN-2004 23:52:24	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	9990	No
GOM_TRA_1PNPDE20040127_235345_000000412023_00417_09990_0001.N1	27-JAN-2004 23:53:45	Dark	41.000	179	24Omi2CMa	3.0320	24000.	82	9990	No
GOM_TRA_1PNPDE20040127_235554_000000482023_00417_09990_0002.N1	27-JAN-2004 23:55:54	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	9990	No
GOM_TRA_1PNPDE20040127_235754_000000692023_00417_09990_0003.N1	27-JAN-2004 23:57:54	Dark	69.000	48	30Alp Hya	1.9770	4100.0	138	9990	No

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





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

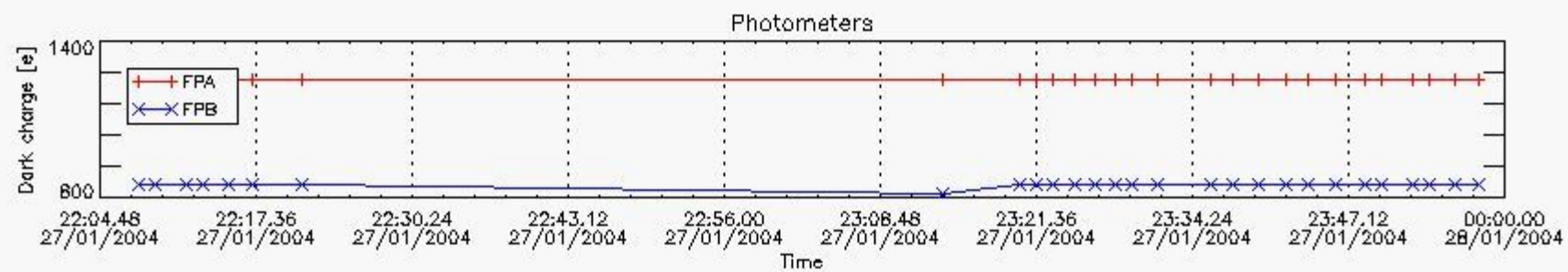
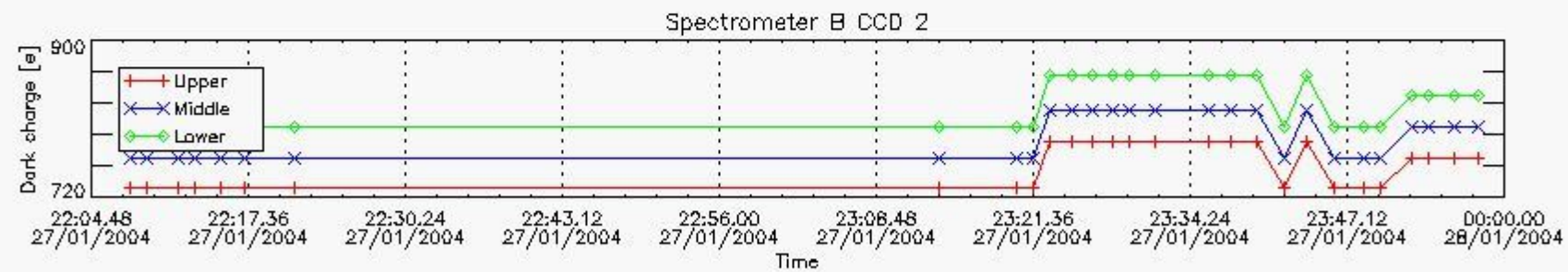
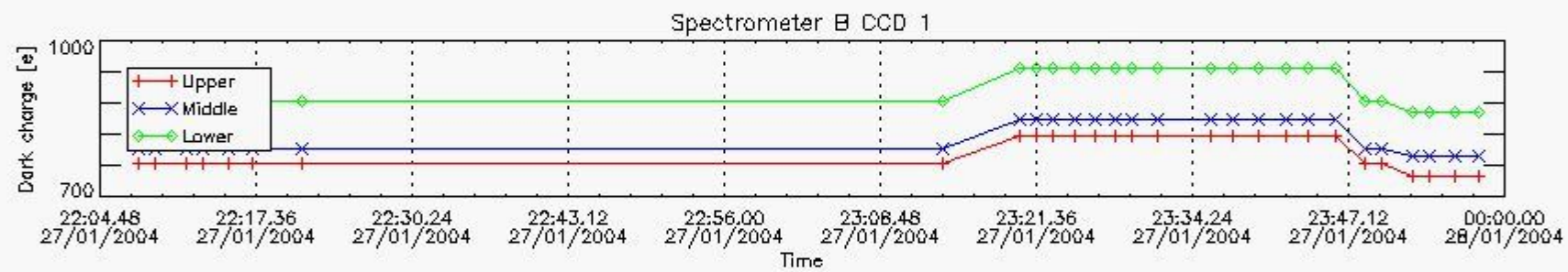
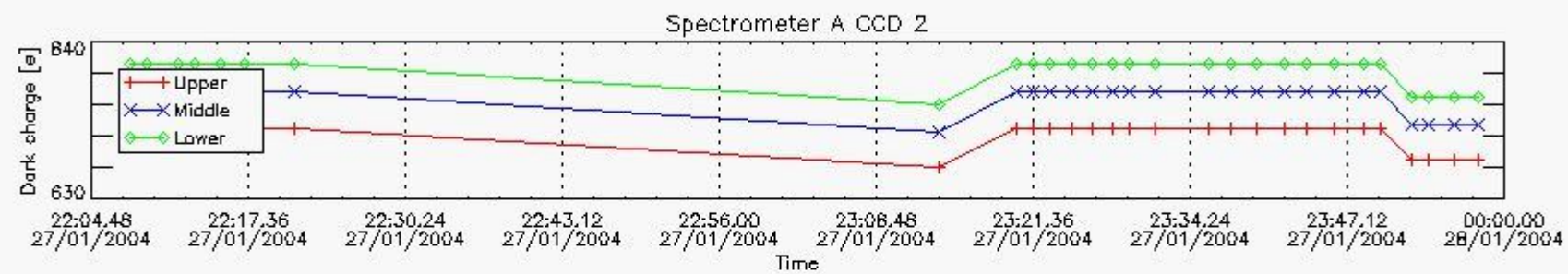
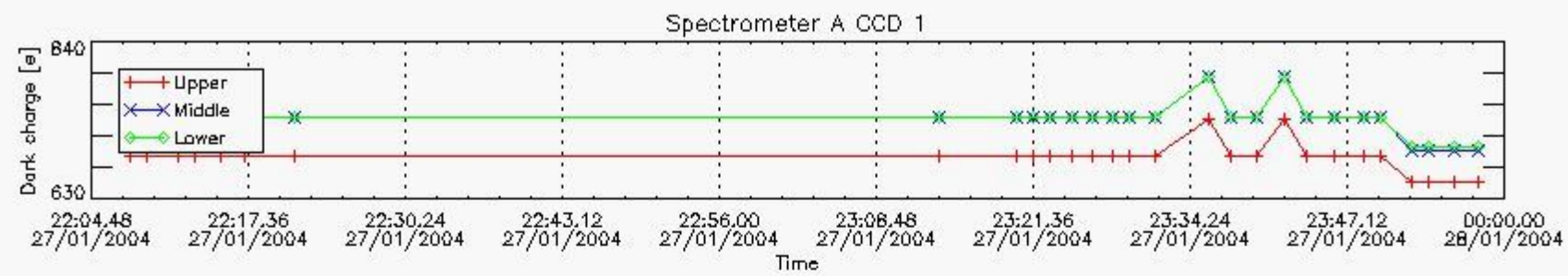
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





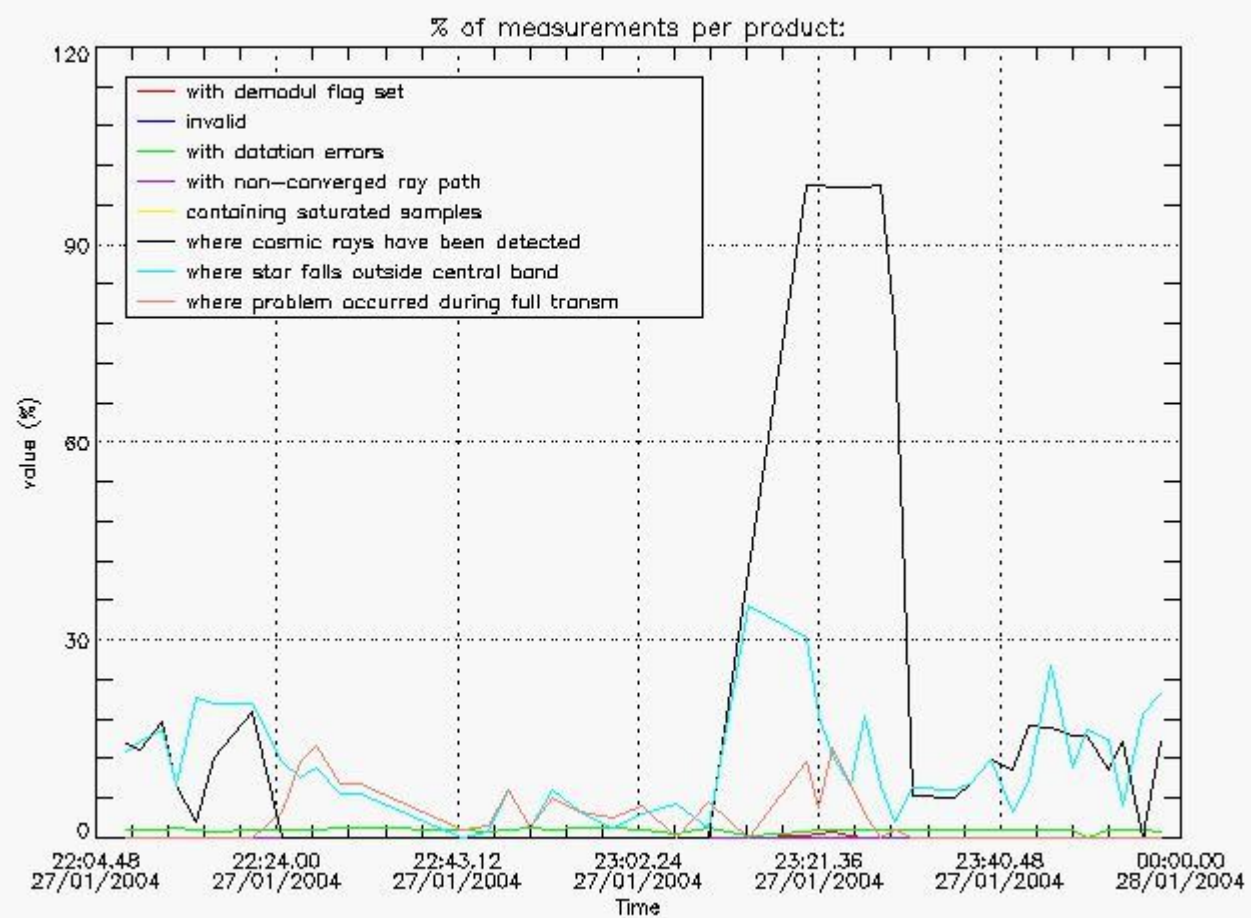
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	20.9302 %
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



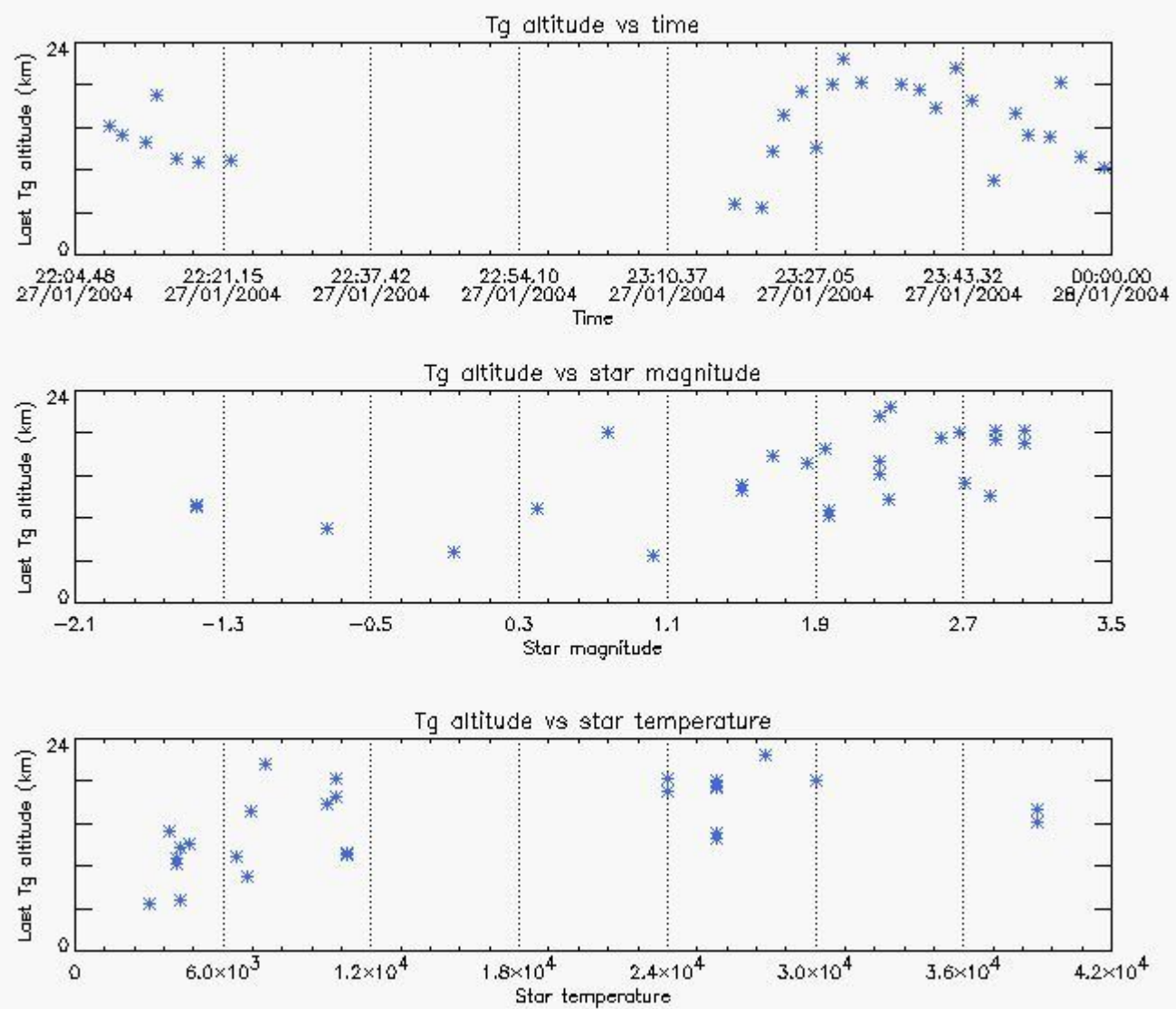
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.479	20.887
St. deviation:	4.5369	3.2952
Maximum:	22.072	26.849
Minimum:	5.2353	15.777
Number of data:	28.000	15.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

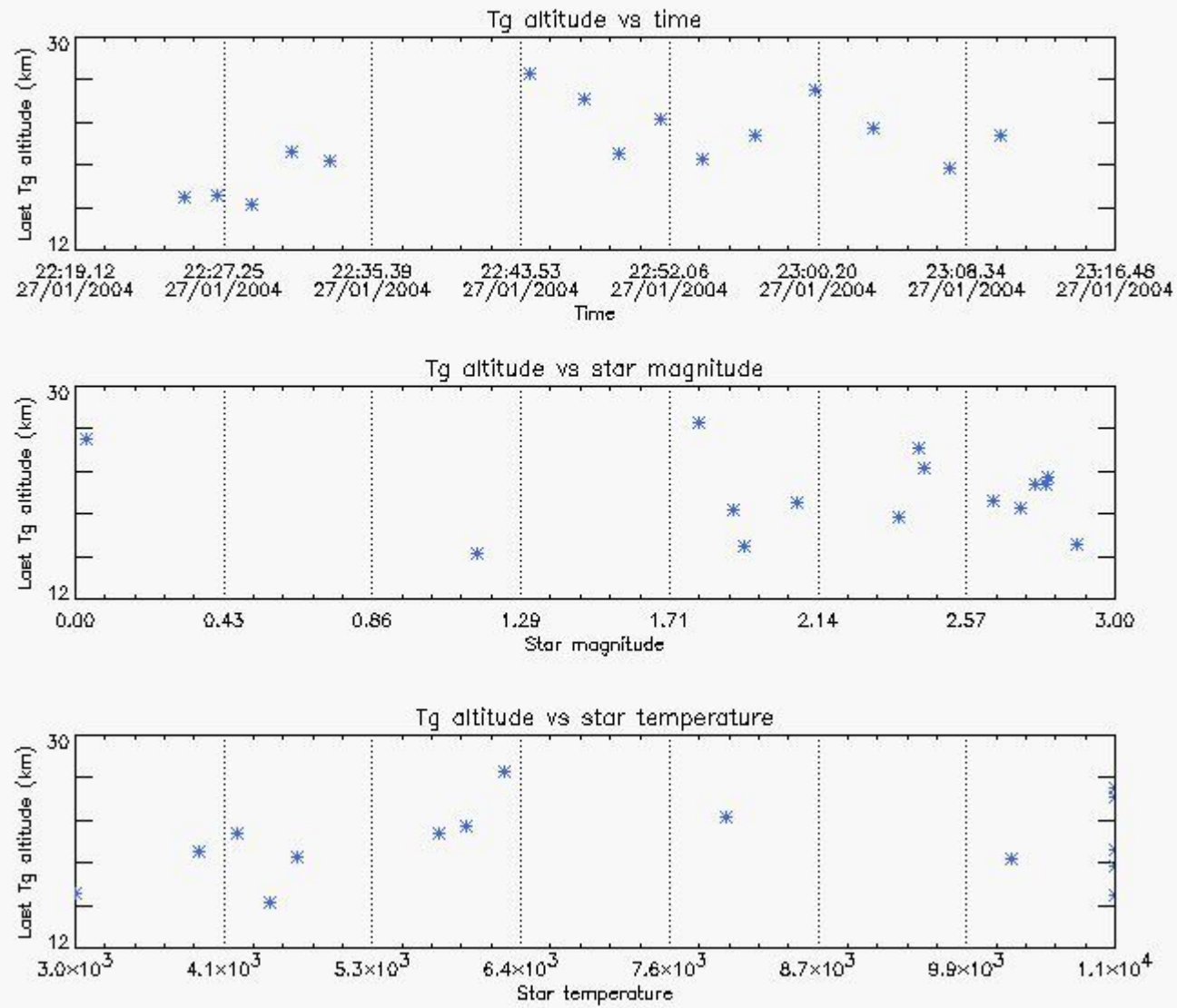


6.3 Plot for BRIGHT limb products





### Tangent altitude at which the star is lost



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

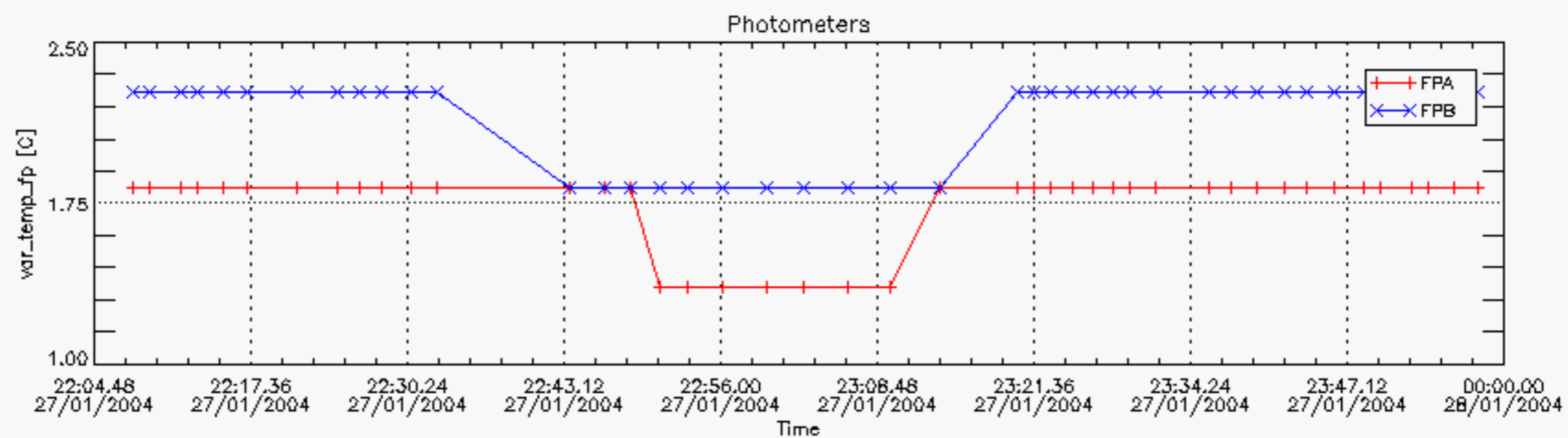
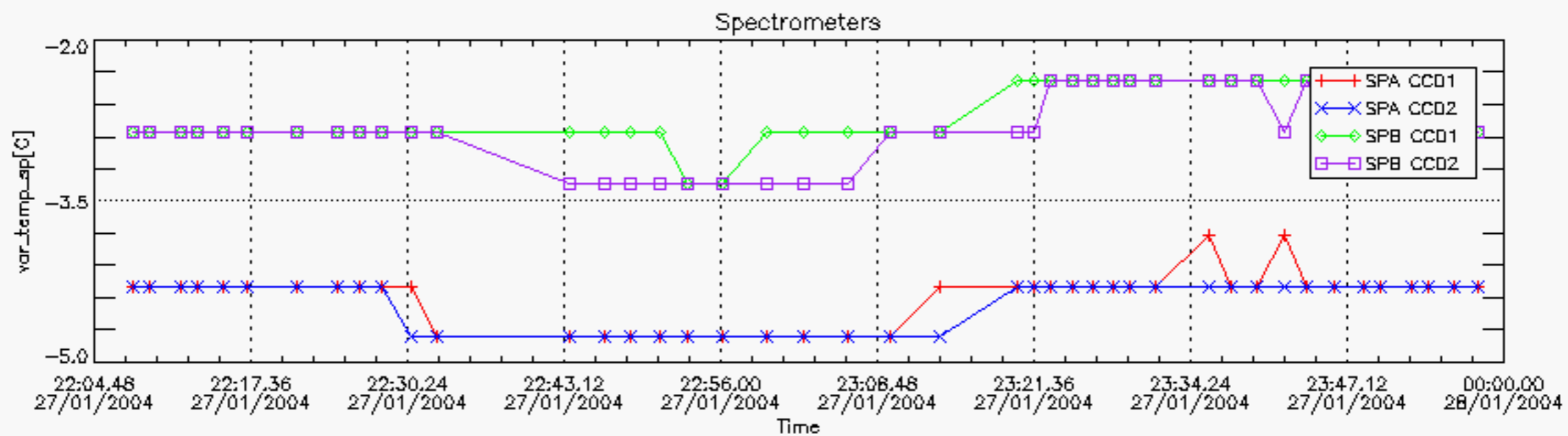
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

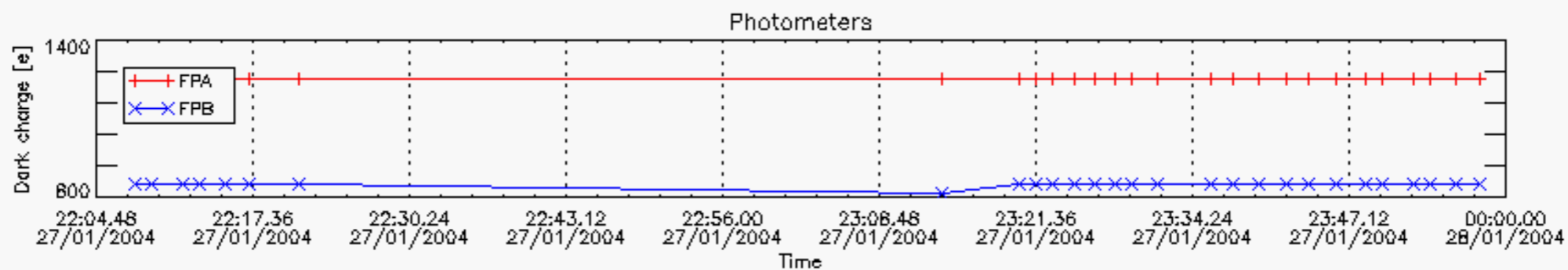
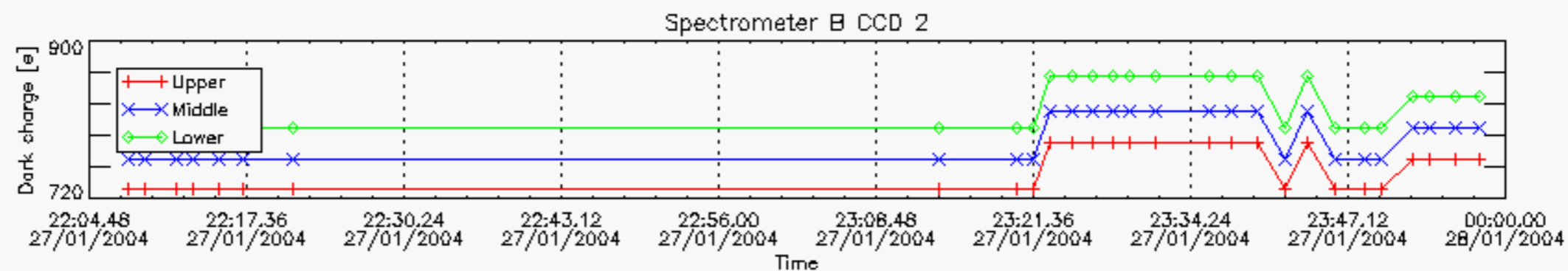
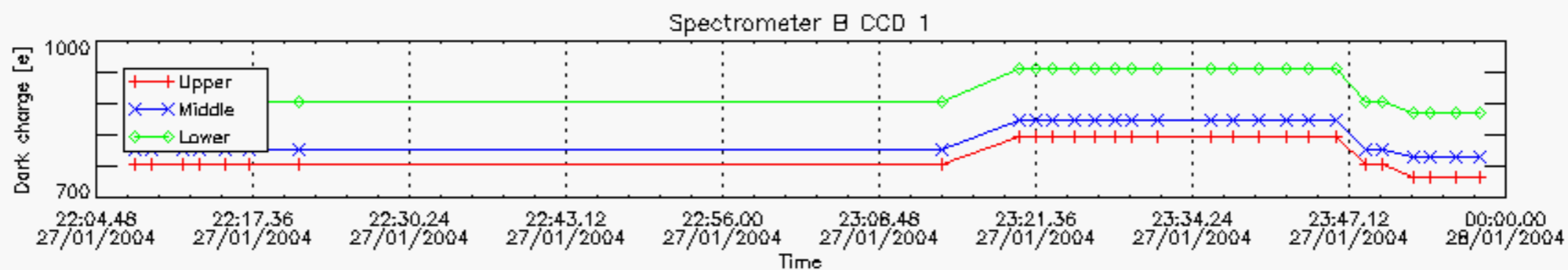
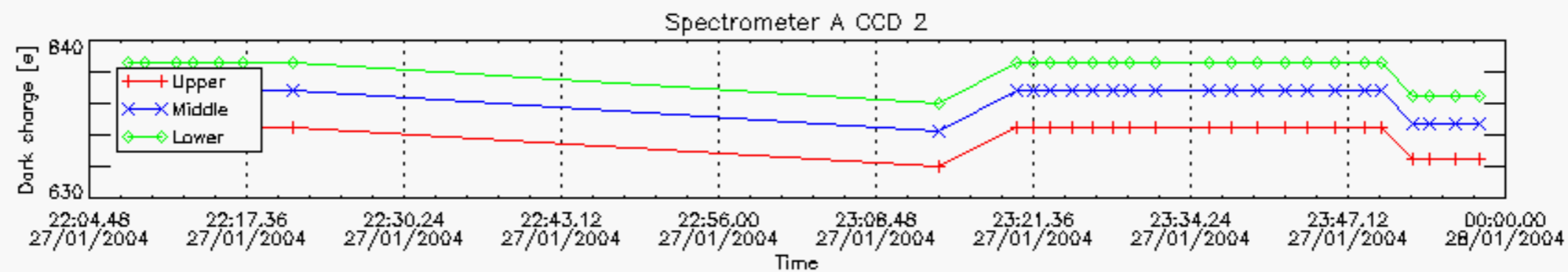
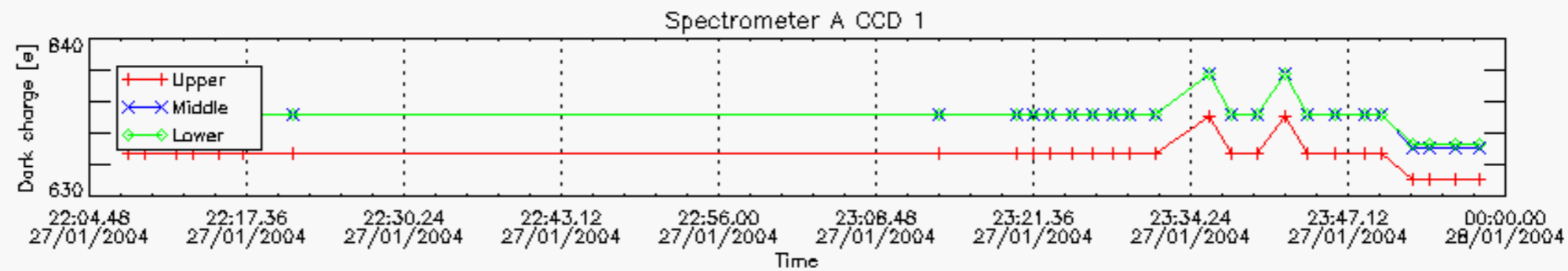
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1446.9	1461.0	1447.7
St. deviation:	5.1652	6.5845	5.8044	7.2578
Maximum:	1500.0	1492.0	1501.0	1488.0
Minimum:	1449.0	1441.0	1441.0	1428.0
Number of data:	33550.	33550.	16150.	16150.

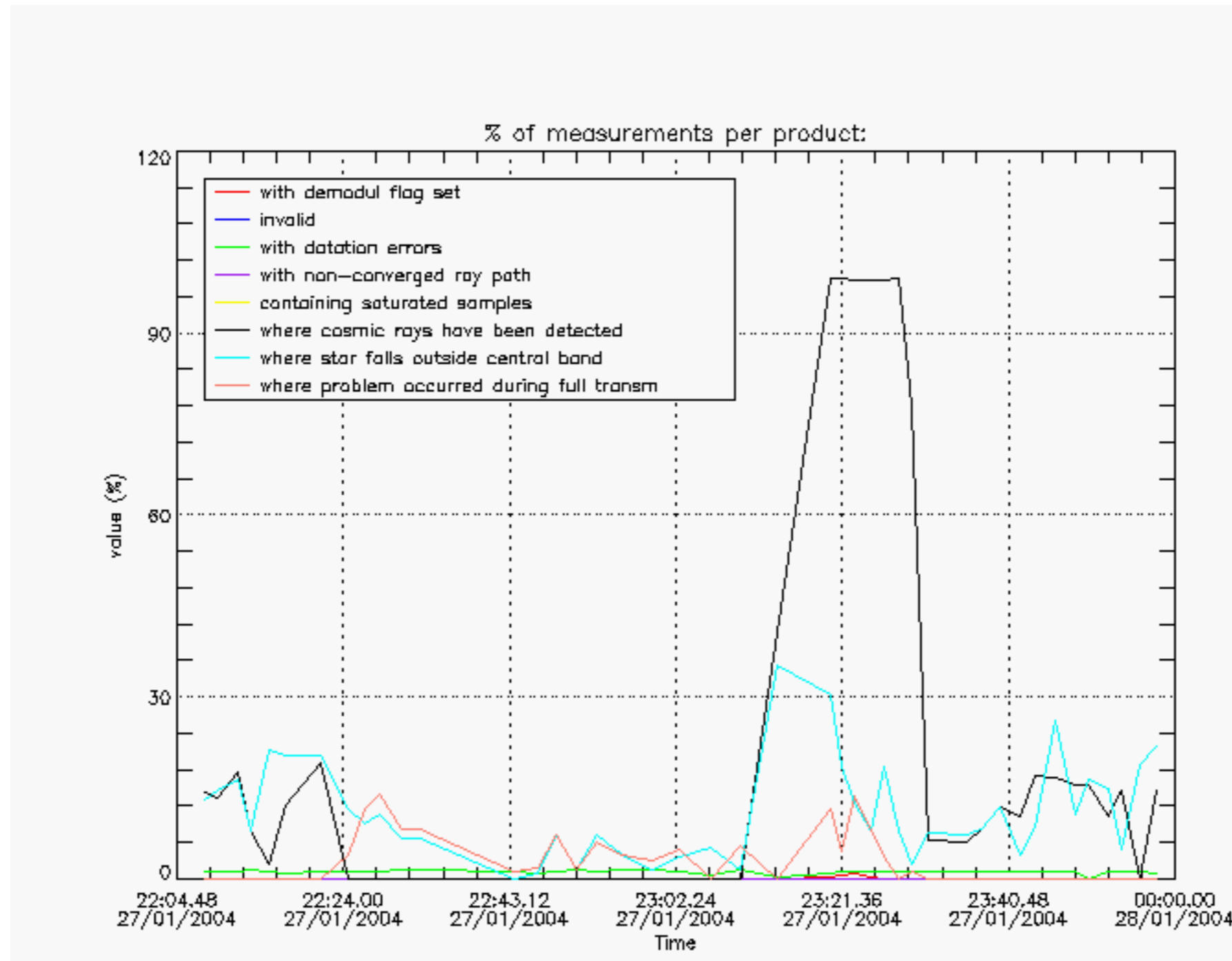




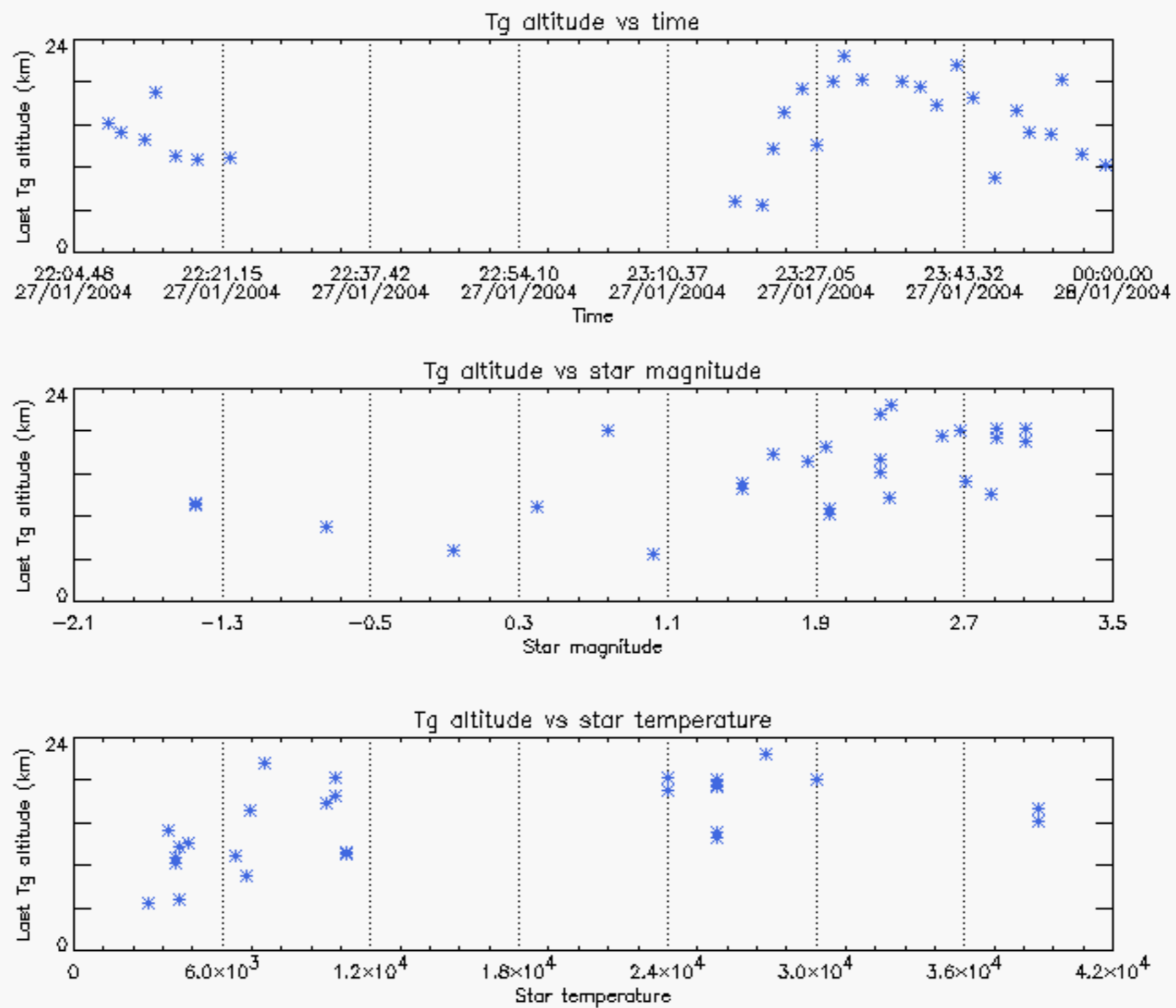






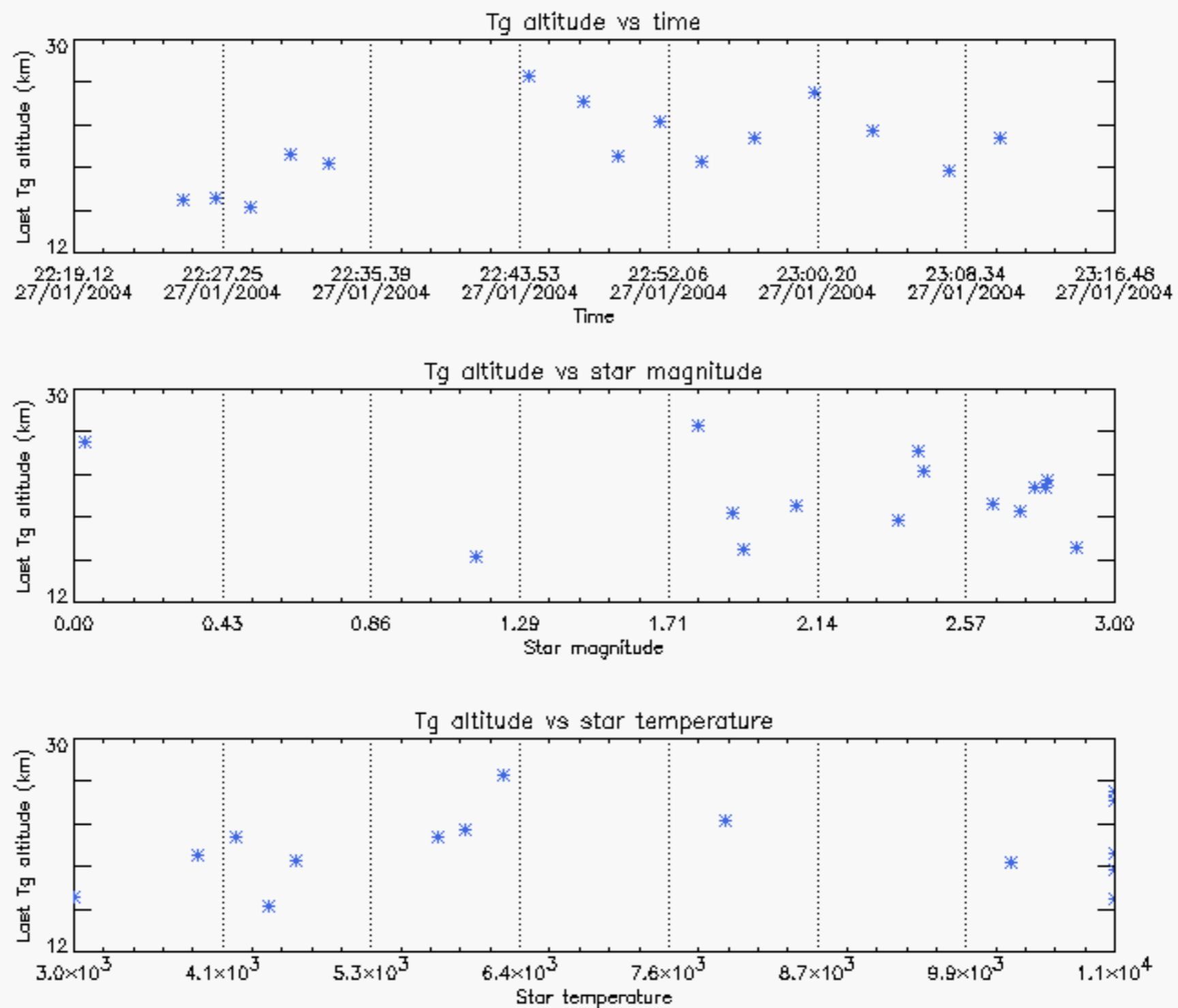


Tangent altitude at which the star is lost





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  
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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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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
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18;	-2197.4;	11-JAN-2004	17:53:13;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9757
19;	-1967.8;	11-JAN-2004	17:57:02;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	9757
20;	-1786.7;	11-JAN-2004	18:00:04;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	9757
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23;	-1305.9;	11-JAN-2004	18:08:04;	Bright;		34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	9757
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26;	-762.4;	11-JAN-2004	18:17:08;	Dark	;	48.0;	104;	27Bet Lib	;	2.61;	13100;occ;	96;	0;	9757
27;	-610.1;	11-JAN-2004	18:19:40;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;	9757
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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 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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 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  
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 31; 783.0; 11-JAN-2004 10:19:54; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0; 9753  
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 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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22;-1306.3; 11-JAN-2004 16:27:28; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0; 9756
23;-1106.4; 11-JAN-2004 16:30:48; Dark ; 82.0; 111; 8Eta Boo ; 2.68; 6000;occ; 164; 0; 9756
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32; 347.2; 11-JAN-2004 16:55:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9757
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33; 1430.1; 31-JAN-2004 08:21:18; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;10038
34; 1512.5; 31-JAN-2004 08:22:40; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;10038
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 28; 578.0; 31-JAN-2004 09:47:42; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;10039  
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 30; 870.2; 31-JAN-2004 09:52:34; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;10039  
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