

# GOMOS Daily Report 21-FEB-2004

## SUMMARY

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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	22FEB2004 06:57:17
Data source version	<Any version>
Start time of products	21-FEB-2004 (21FEB2004 00:00:00)
Stop time of products	22-FEB-2004 (22FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

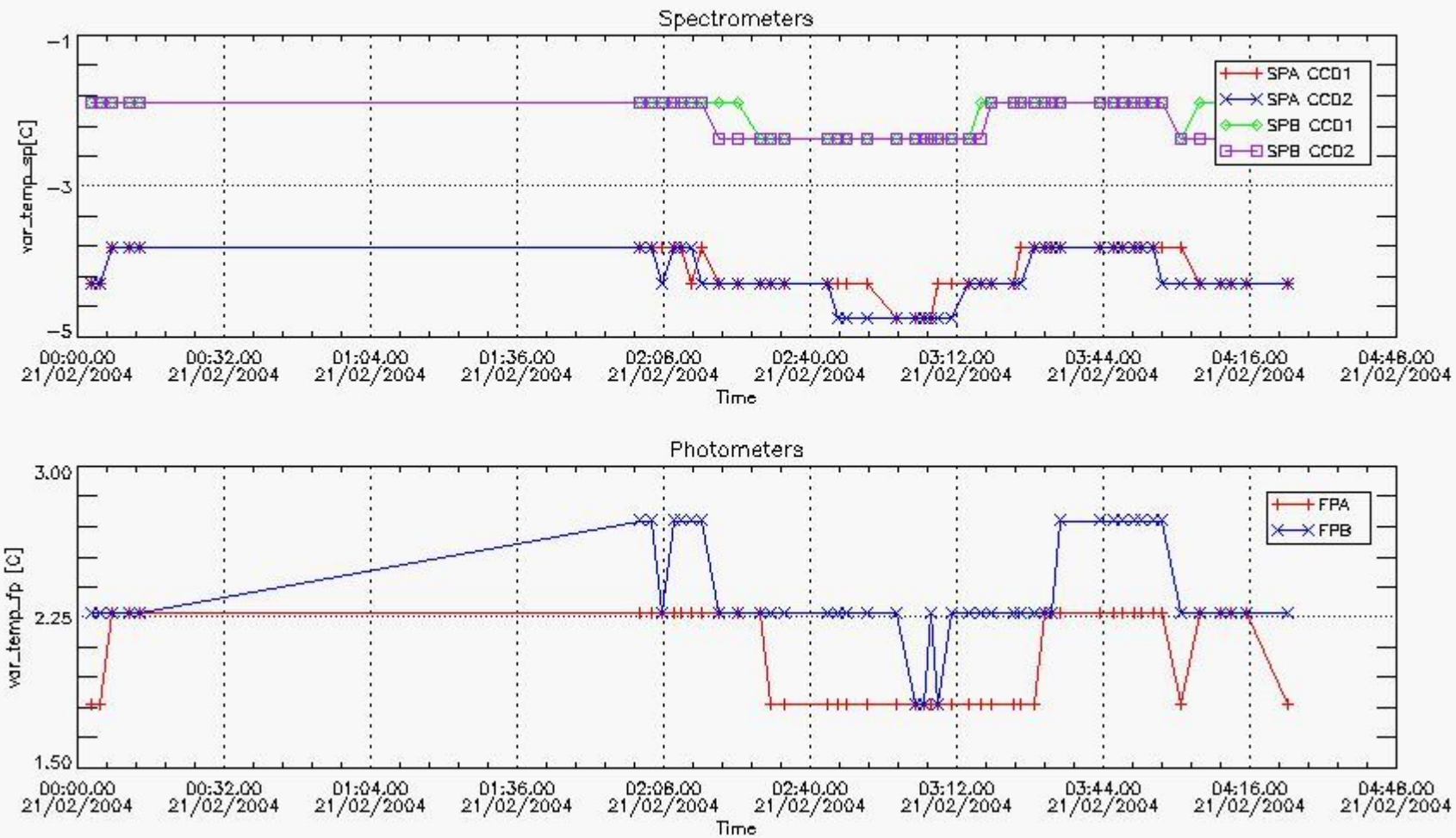
## 2. Summary of products arrived in PCF

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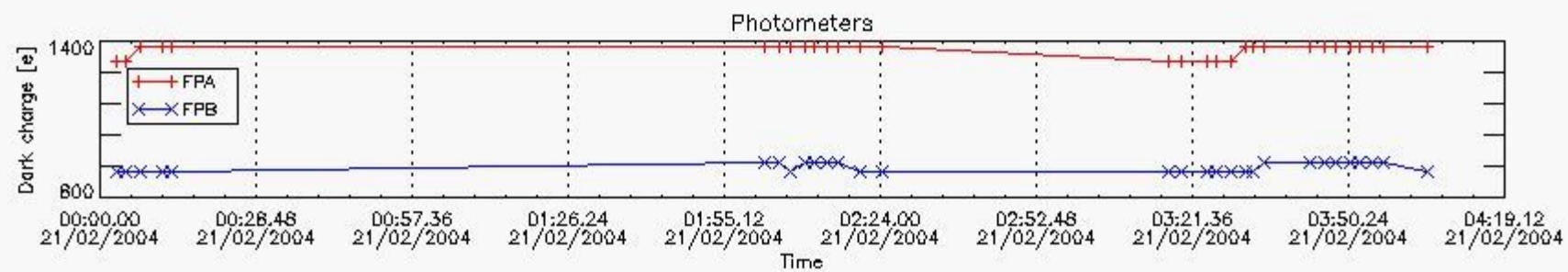
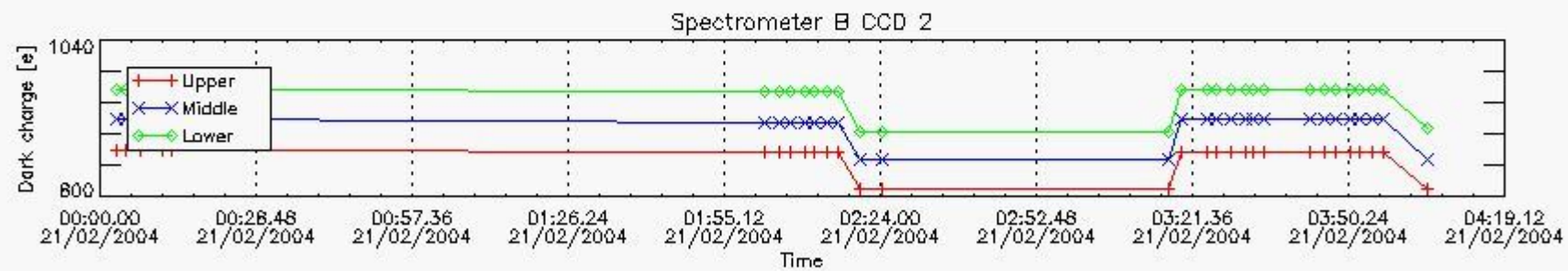
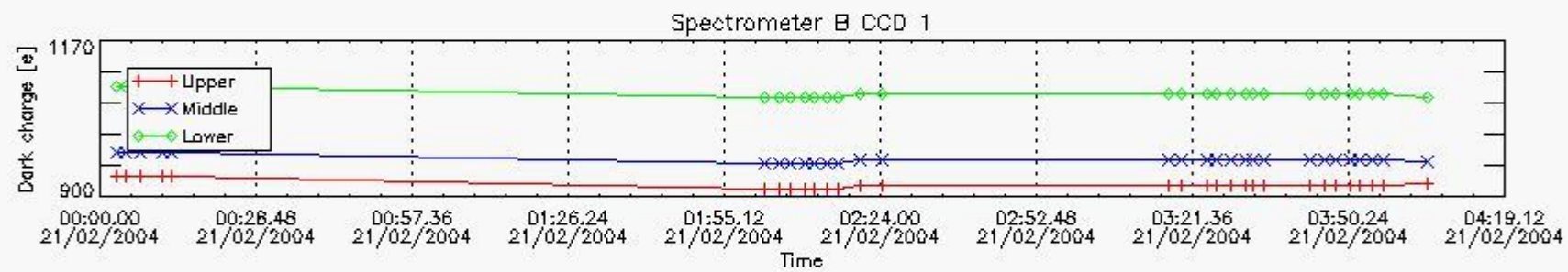
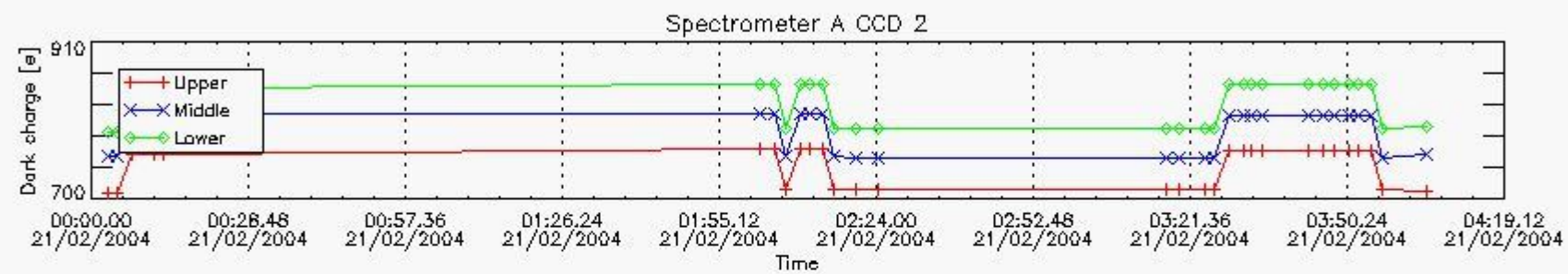
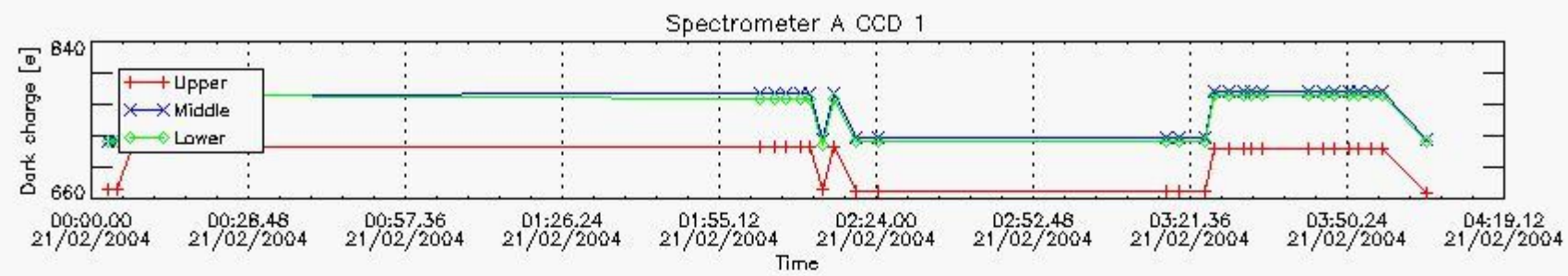
#### 4. Overview of dark signal processing per product

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

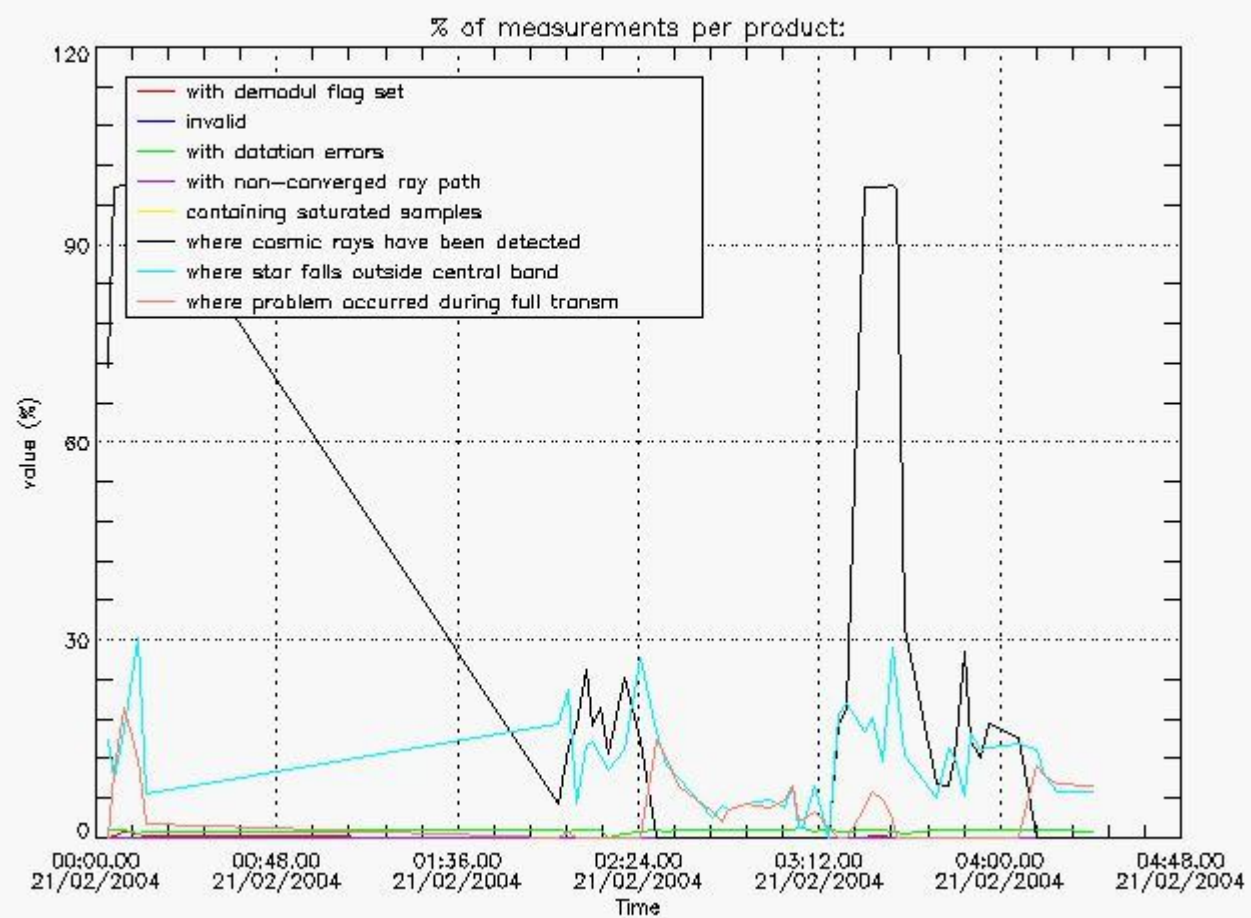


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	20.8333 %
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



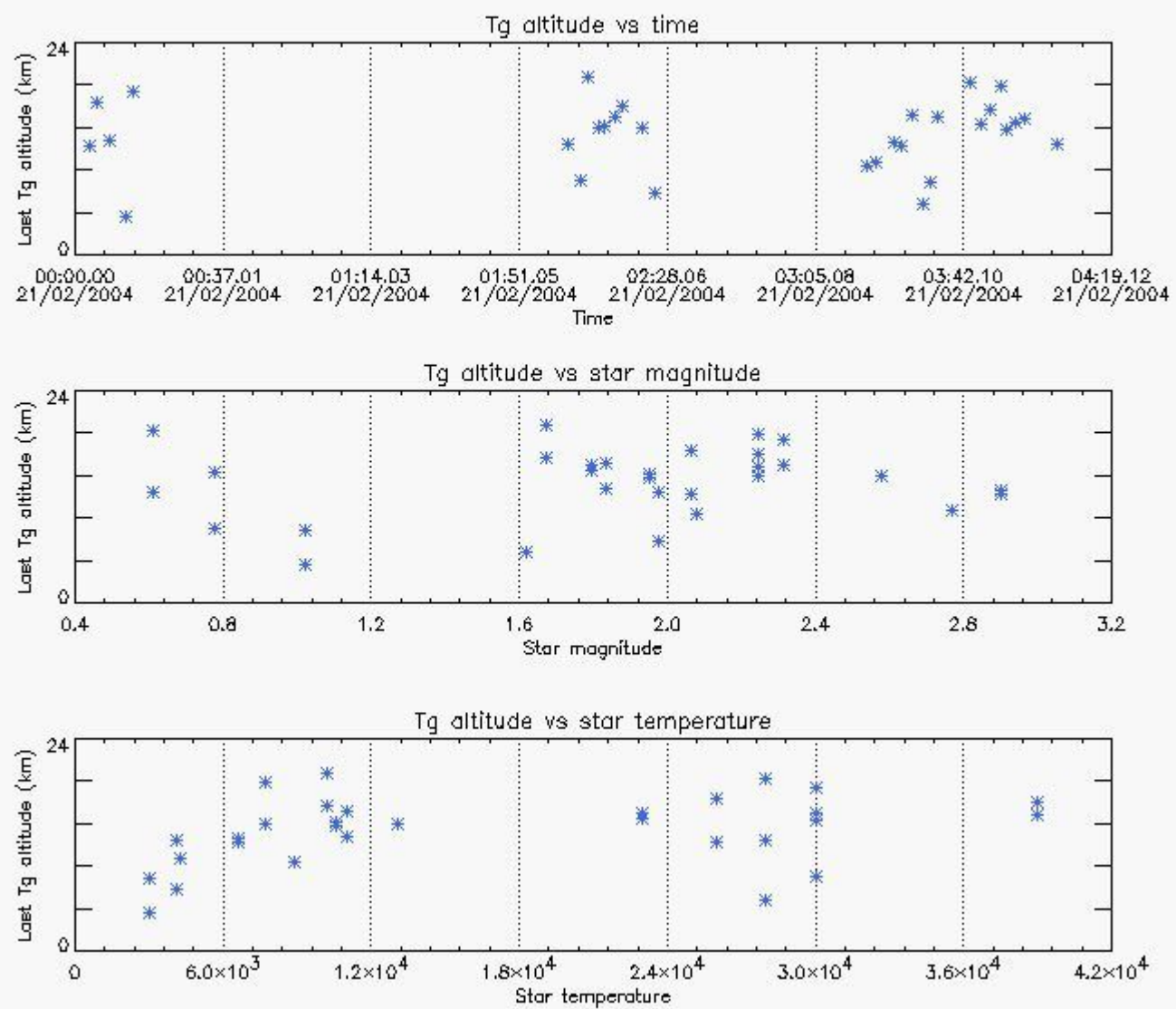
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.560	20.283
St. deviation:	3.9857	3.8717
Maximum:	20.202	26.037
Minimum:	4.3866	12.470
Number of data:	30.000	18.000

### 6.2 Plot for DARK limb products

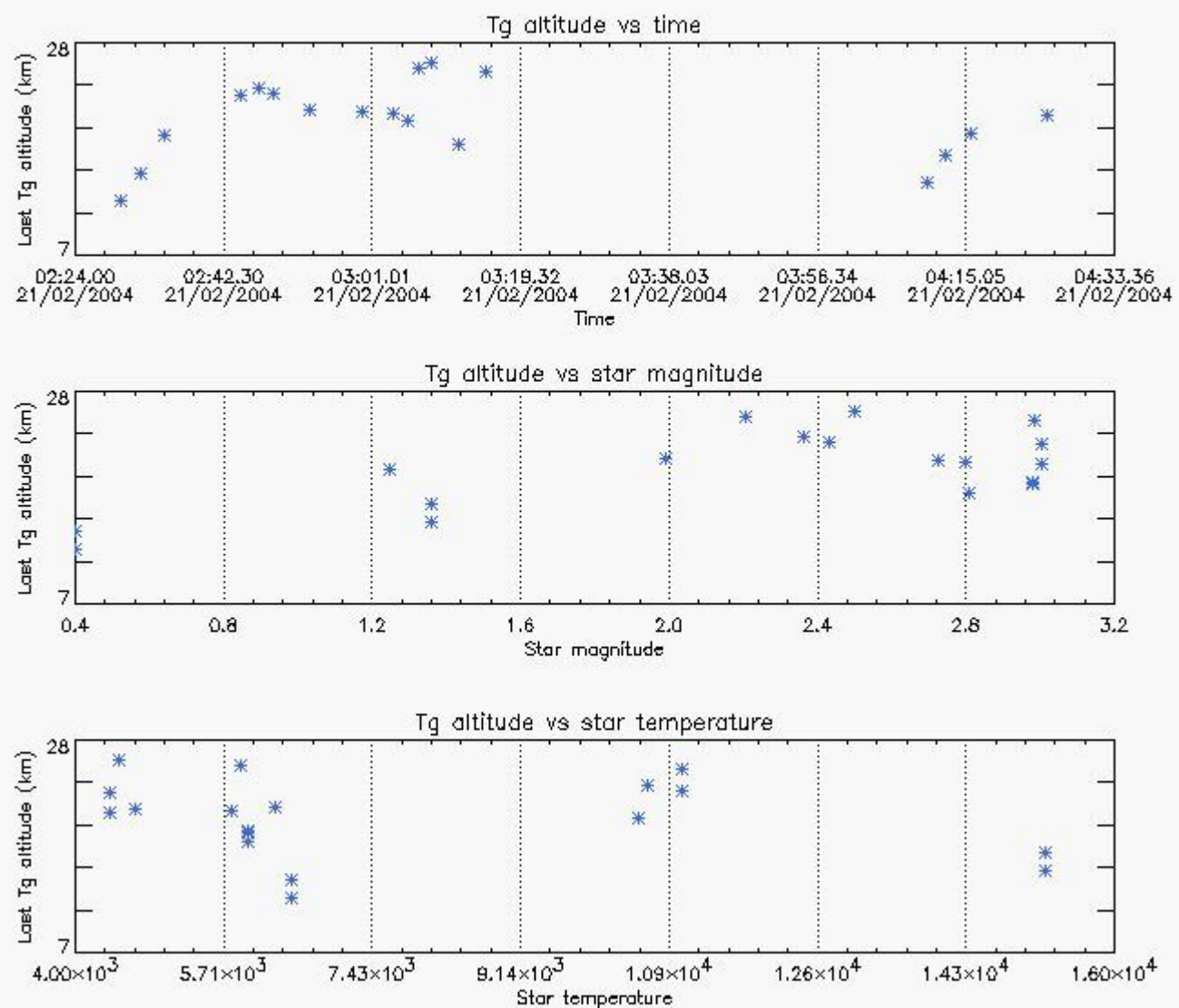
Tangent altitude at which the star is lost



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

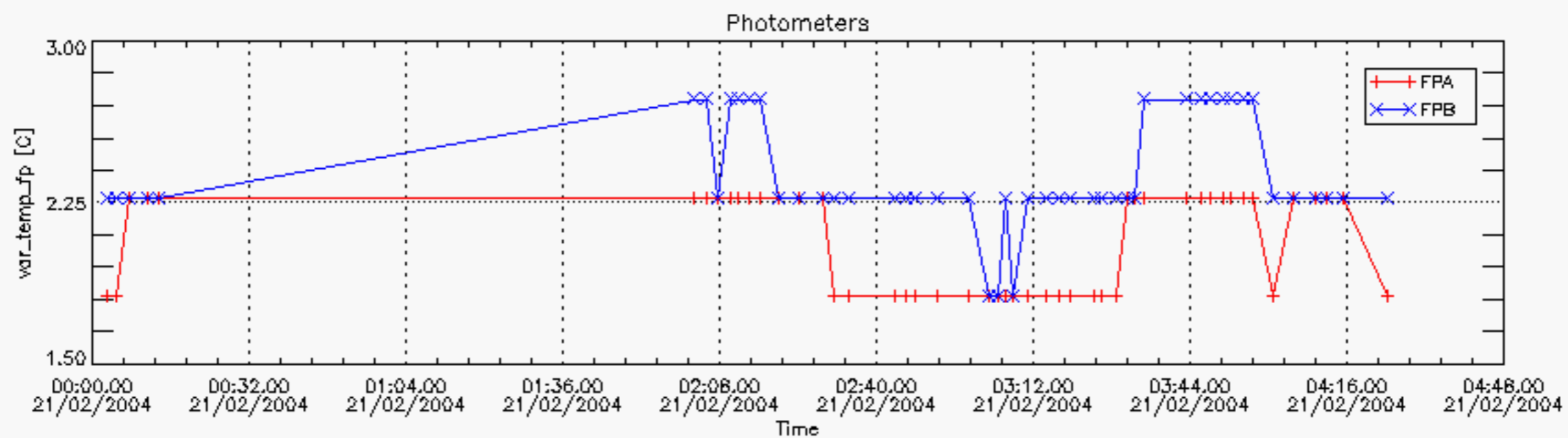
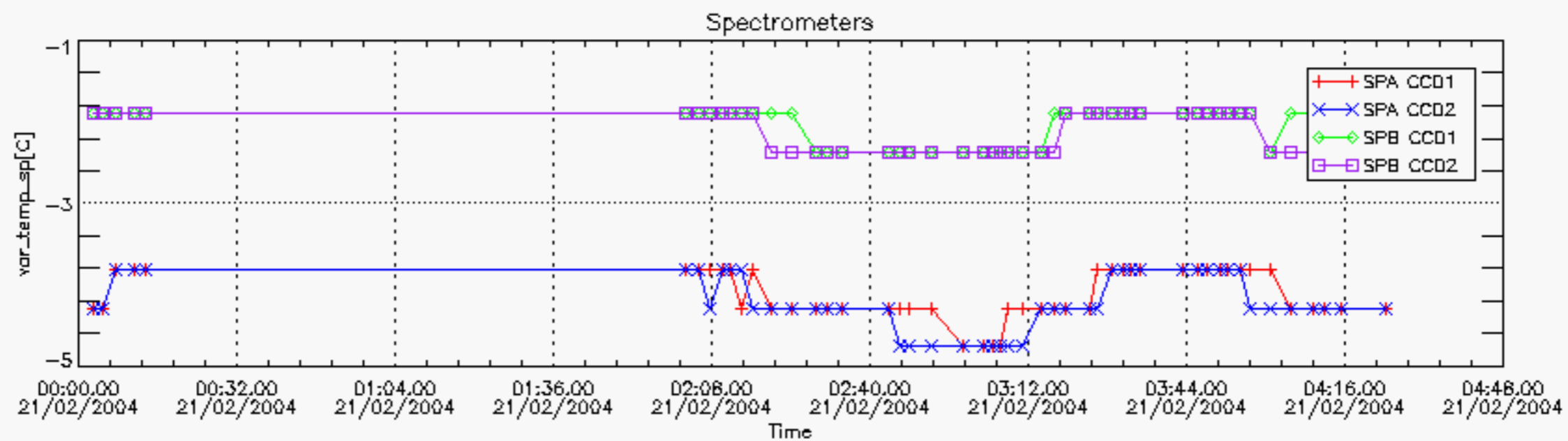
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

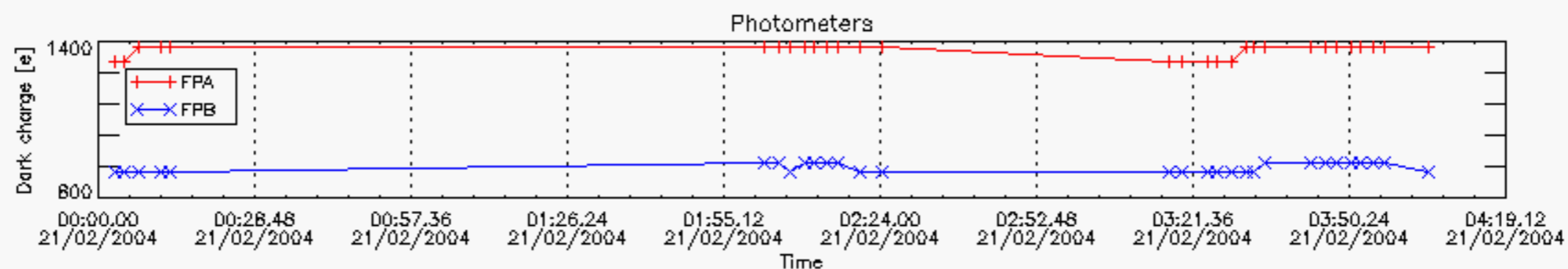
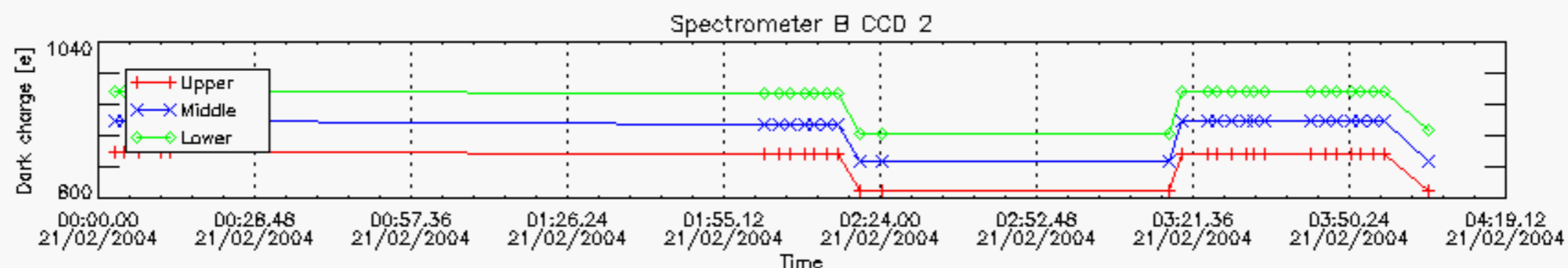
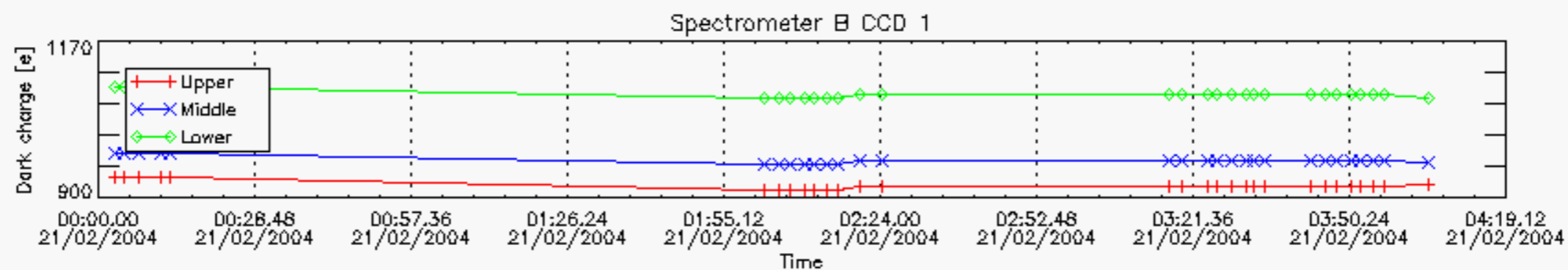
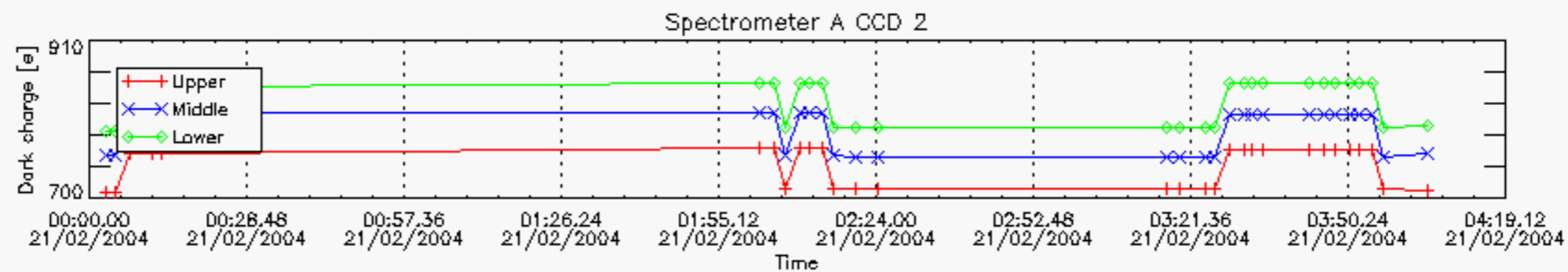
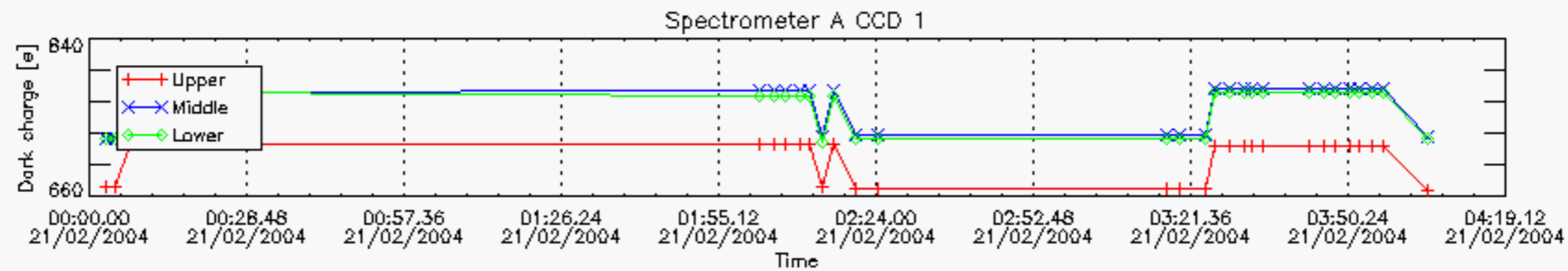
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.1	1461.6	1447.9
St. deviation:	5.3144	11.203	7.2747	12.709
Maximum:	1499.0	1505.0	1516.0	1519.0
Minimum:	1456.0	1421.0	1438.0	1411.0
Number of data:	36550.	36550.	20800.	20800.

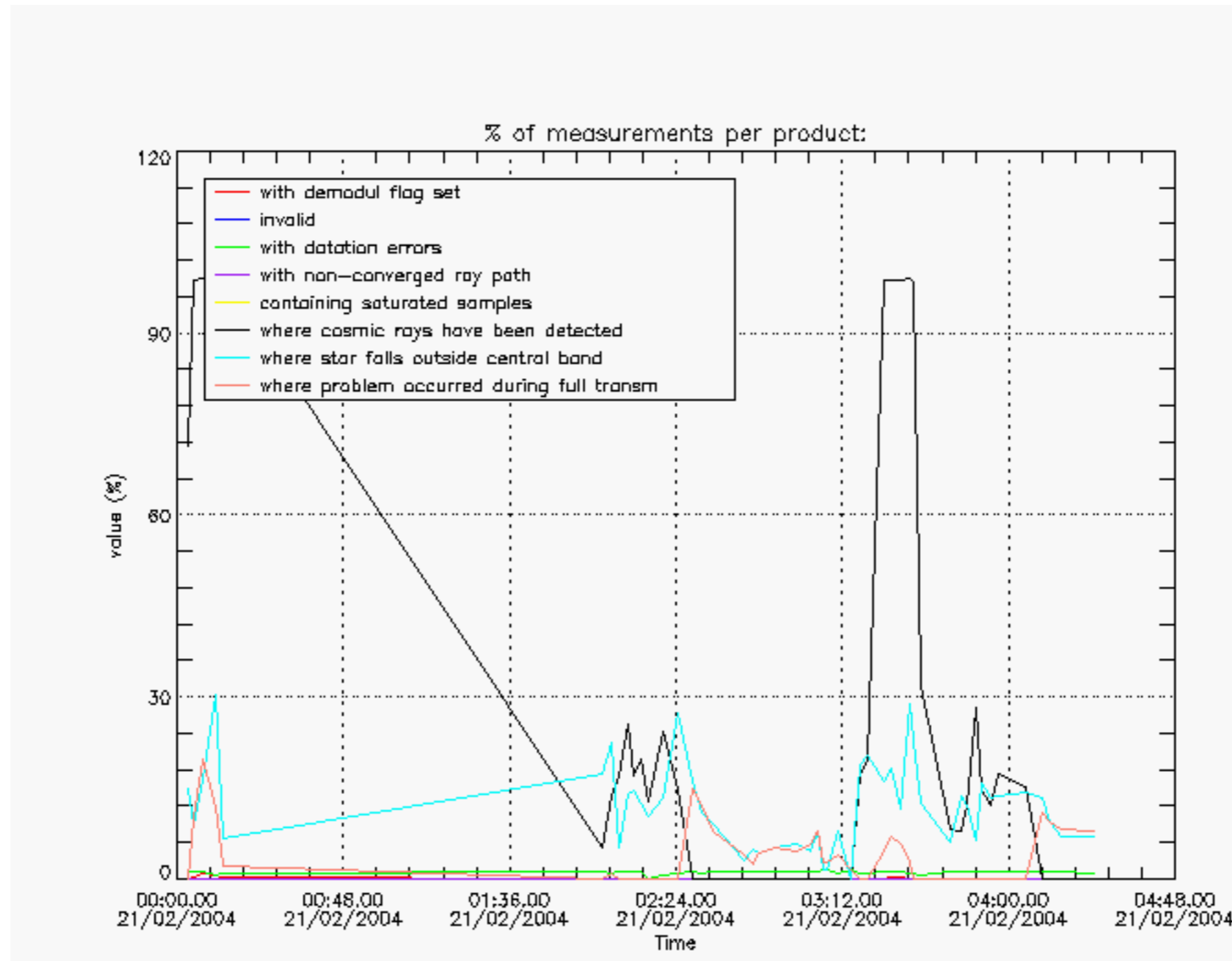




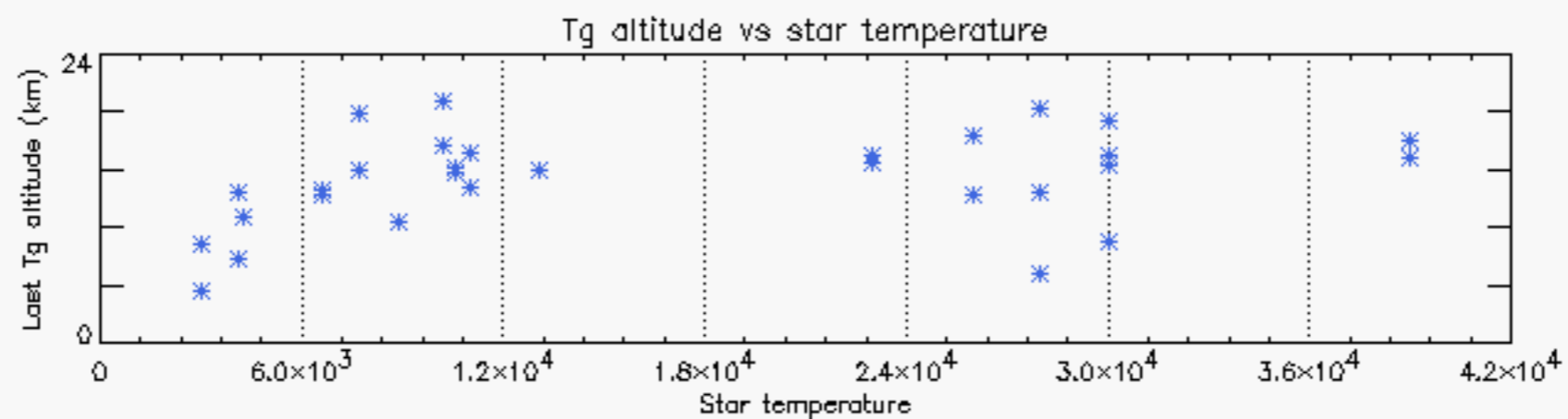
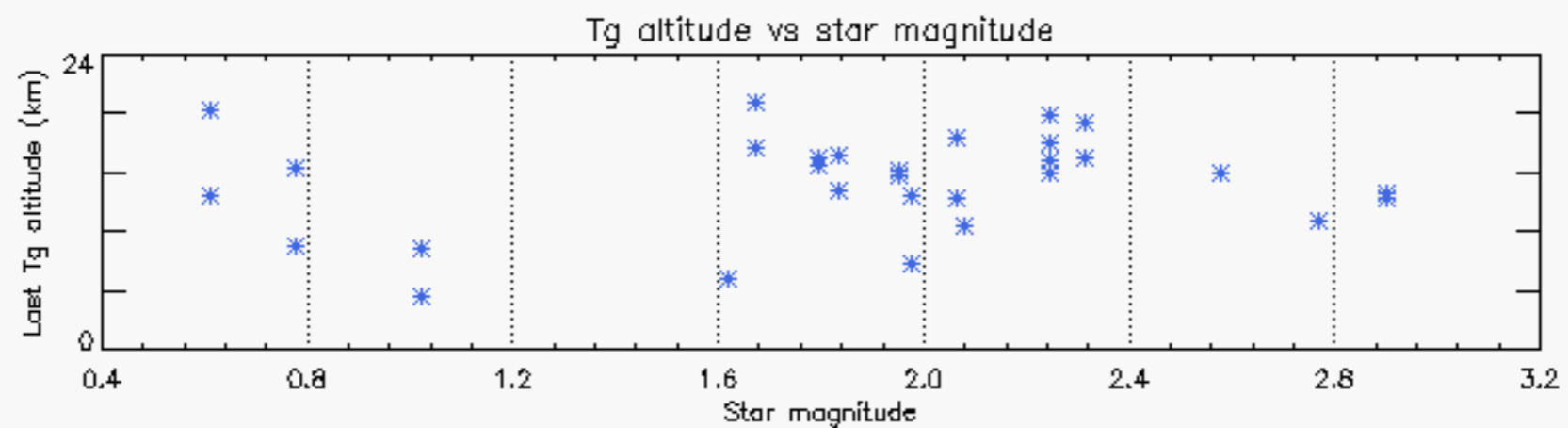
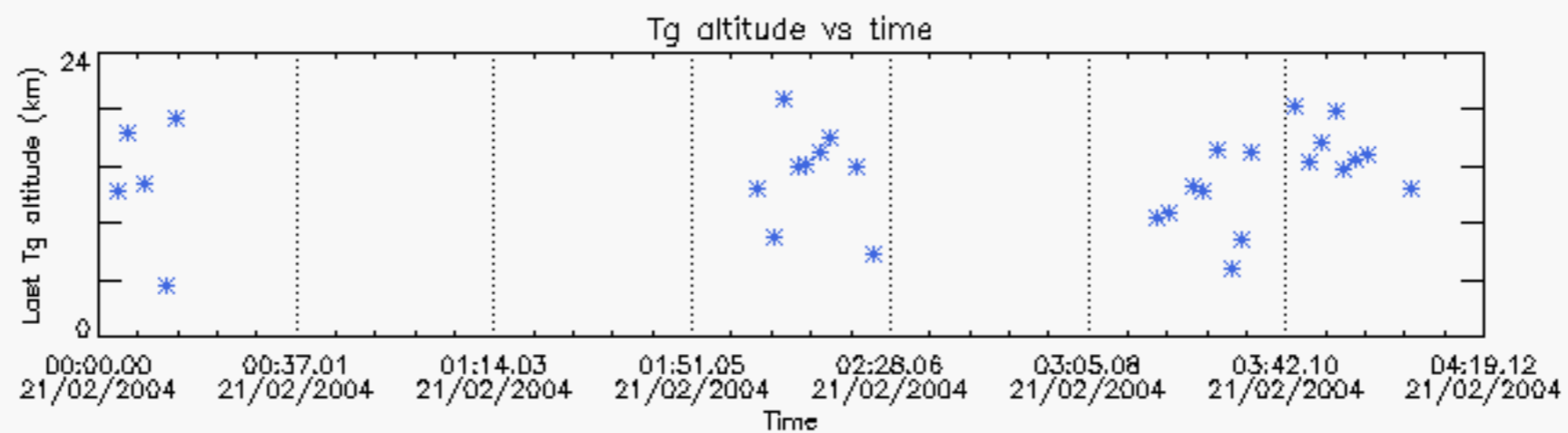




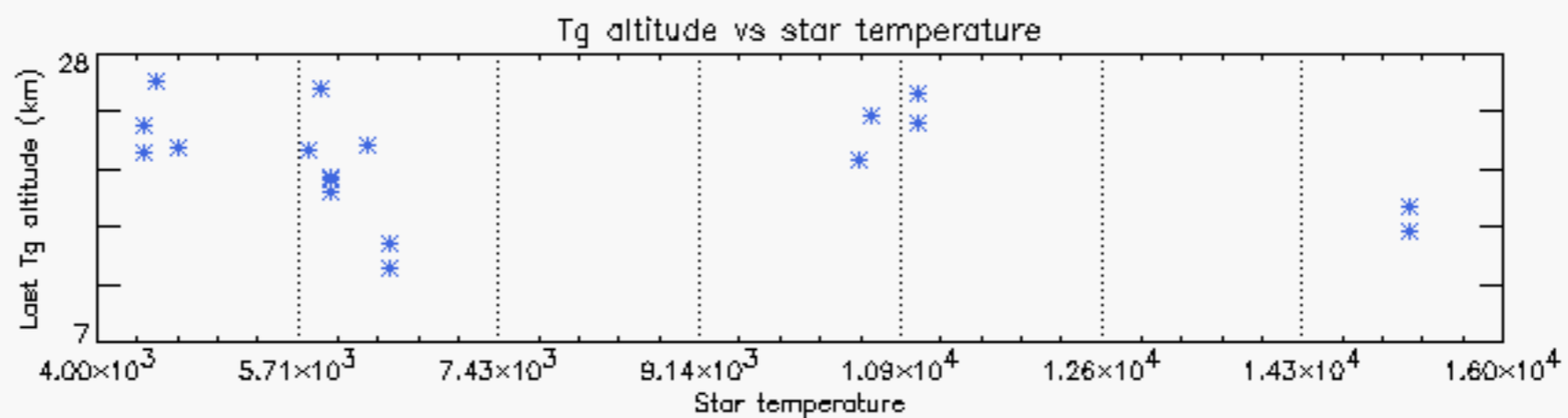
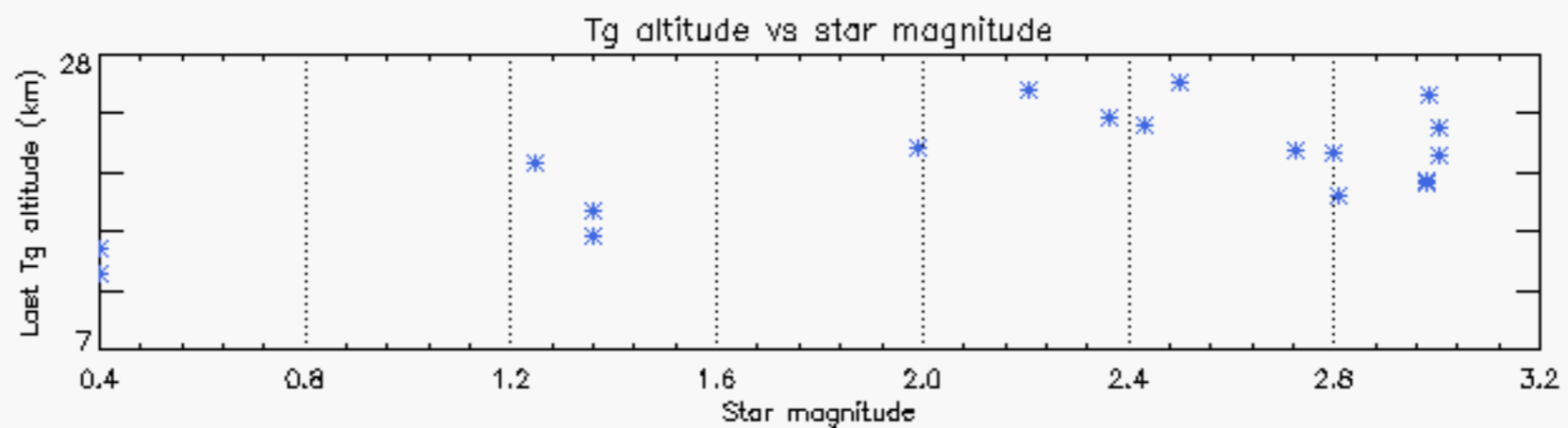
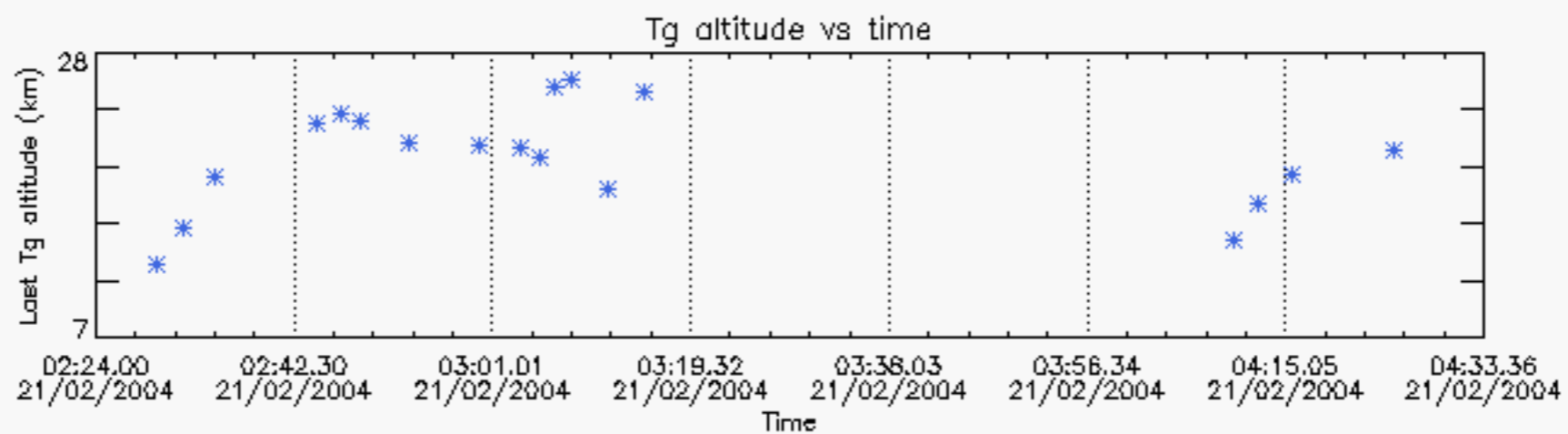




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 7; -3642.3; 01-FEB-2004 06:25:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10051  
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 9; -3344.7; 01-FEB-2004 06:30:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;10051  
 10; -2779.1; 01-FEB-2004 06:39:32; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;10051  
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34; 1203.8; 01-FEB-2004 09:26:31; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;10053
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3;-4044.2; 01-FEB-2004 09:39:38; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;10053
4;-3950.0; 01-FEB-2004 09:41:13; Bright; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;10053
5;-3837.8; 01-FEB-2004 09:43:05; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;10053
6;-3727.5; 01-FEB-2004 09:44:55; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;10053
7;-3642.8; 01-FEB-2004 09:46:20; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10053
8;-3469.9; 01-FEB-2004 09:49:13; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;10053
9;-3345.1; 01-FEB-2004 09:51:18; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;10053
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26; -491.1; 07-FEB-2004 20:53:57; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;10145
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31; 127.2; 07-FEB-2004 21:04:15; Dark ; 46.5; 43; Alp TrA ; 1.91; 4250;occ; 93; 0;10146
32; 284.9; 07-FEB-2004 21:06:53; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10146
33; 380.9; 07-FEB-2004 21:08:29; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;10146
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36; 700.8; 07-FEB-2004 21:13:49; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;10146
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10;-3166.7; 08-FEB-2004 06:12:57; Bright; 114.5; 96; 68Del Leo ; 2.56; 9300;occ; 229; 0;10151

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31; 587.1; 08-FEB-2004 07:15:31; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;10152
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33; 852.6; 08-FEB-2004 07:19:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;10152
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36; 1225.6; 08-FEB-2004 07:26:09; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;10152
37; 1302.9; 08-FEB-2004 07:27:27; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;10152
38; 1449.3; 08-FEB-2004 07:29:53; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;10152
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7;-3319.5; 08-FEB-2004 07:51:00; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;10152
8;-3169.8; 08-FEB-2004 07:53:30; Bright; 120.0; 96; 68Del Leo ; 2.56; 9300;occ; 240; 0;10152
9;-2928.6; 08-FEB-2004 07:57:31; Bright; 59.5; 174; 52Psi UMa ; 3.00; 4400;occ; 119; 0;10152
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31; 852.8; 08-FEB-2004 09:00:32; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;10153
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33; 1101.4; 08-FEB-2004 09:04:41; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;10153
34; 1225.8; 08-FEB-2004 09:06:45; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;10153
35; 1302.9; 08-FEB-2004 09:08:02; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;10153
36; 1449.3; 08-FEB-2004 09:10:29; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;10153
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4;	-3817.7;	08-FEB-2004	09:23:18;	Bright;		39.5;	44;	24Gam Gem	;	1.93;	11000;occ;	79;	0;	10153
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7;	-3440.8;	08-FEB-2004	09:29:35;	Bright;		37.0;	107;	37The Aur	;	2.65;	11000;occ;	74;	0;	10153
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9;	-3172.8;	08-FEB-2004	09:34:03;	Bright;		116.5;	96;	68Del Leo	;	2.56;	9300;occ;	233;	0;	10153
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11;	-2608.0;	08-FEB-2004	09:43:27;	Bright;		34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	10153
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13;	-2215.5;	08-FEB-2004	09:50:00;	Bright;		38.5;	89;	5Alp Cep	;	2.45;	8000;occ;	77;	0;	10153
14;	-1954.3;	08-FEB-2004	09:54:21;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	10153
15;	-1860.9;	08-FEB-2004	09:55:55;	Bright;		35.0;	144;	18Del Cyg	;	2.86;	11000;occ;	70;	0;	10153
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17;	-1536.6;	08-FEB-2004	10:01:19;	Bright;		49.0;	133;	40Zet Her	;	2.81;	6000;occ;	98;	0;	10153
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19;	-1200.6;	08-FEB-2004	10:06:55;	Dark	;	187.5;	83;		;	2.38;	11000;occ;	375;	0;	10153
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21;	-558.8;	08-FEB-2004	10:17:37;	Dark	;	46.5;	116;	19Del Sgr	;	2.70;	4100;occ;	93;	0;	10153
22;	-488.0;	08-FEB-2004	10:18:47;	Dark	;	41.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	82;	0;	10153
23;	-380.9;	08-FEB-2004	10:20:35;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;	10153
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25;	-187.2;	08-FEB-2004	10:23:48;	Dark	;	38.0;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	10153
26;	129.7;	08-FEB-2004	10:29:05;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;	10154
27;	286.0;	08-FEB-2004	10:31:41;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10154
28;	388.5;	08-FEB-2004	10:33:24;	Dark	;	44.0;	77;	Eps Cen	;	2.30;	28000;occ;	88;	0;	10154
29;	498.2;	08-FEB-2004	10:35:14;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	10154
30;	589.0;	08-FEB-2004	10:36:44;	Dark	;	48.0;	64;	Gam Cen	;	2.20;	10600;occ;	96;	0;	10154
31;	702.9;	08-FEB-2004	10:38:38;	Dark	;	38.5;	29;	Bet Car	;	1.67;	10200;occ;	77;	0;	10154
32;	852.9;	08-FEB-2004	10:41:08;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	10154
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35;	1225.6;	08-FEB-2004	10:47:21;	Dark	;	38.0;	70;	Zet Pup	;	2.25;	39000;occ;	76;	0;	10154
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37;	1449.0;	08-FEB-2004	10:51:04;	Dark	;	42.0;	23;	21Eps CMA	;	1.50;	26000;occ;	84;	0;	10154
38;	1531.9;	08-FEB-2004	10:52:27;	Dark	;	39.5;	179;	240mi2CMA	;	3.03;	24000;occ;	79;	0;	10154

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7;	-3440.7;	08-FEB-2004	11:10:11;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10154
8;	-3319.3;	08-FEB-2004	11:12:12;	Bright;		39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	10154
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11;	-2608.4;	08-FEB-2004	11:24:03;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	10154
12;	-2450.5;	08-FEB-2004	11:26:41;	Bright;		45.5;	60;	7Bet UMi	;	2.08;	3950;occ;	91;	0;	10154
13;	-2215.7;	08-FEB-2004	11:30:36;	Bright;		37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	10154
14;	-1954.5;	08-FEB-2004	11:34:57;	Bright;		42.5;	130;	23Bet Dra	;	2.80;	5800;occ;	85;	0;	10154
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2;	-4806.6;	09-FEB-2004	18:38:48;	Dark	;	41.0;	70;	Zet Pup	;	2.25;	39000;occ;	82;	0;	10173
3;	-4730.4;	09-FEB-2004	18:40:04;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	10173
4;	-4584.3;	09-FEB-2004	18:42:30;	Dark	;	45.0;	23;	21Eps CMA	;	1.50;	26000;occ;	90;	0;	10173
5;	-4500.5;	09-FEB-2004	18:43:54;	Dark	;	41.0;	179;	240mi2CMA	;	3.03;	24000;occ;	82;	0;	10173
6;	-4298.3;	09-FEB-2004	18:47:16;	Dark	;	55.0;	48;	30Alp Hya	;	1.98;	4100;occ;	110;	0;	10173
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8;	-3813.2;	09-FEB-2004	18:55:21;	Bright;		40.0;	44;	24Gam Gem	;	1.93;	11000;occ;	80;	0;	10173
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11;	-3313.7;	09-FEB-2004	19:03:41;	Bright;		39.5;	42;	34Bet Aur	;	1.90;	10200;occ;	79;	0;	10173
12;	-2955.0;	09-FEB-2004	19:09:39;	Bright;		60.0;	174;	52Psi UMa	;	3.00;	4400;occ;	120;	0;	10173
13;	-2828.3;	09-FEB-2004	19:11:46;	Bright;		47.0;	36;	50Alp UMa	;	1.80;	6300;occ;	94;	0;	10173
14;	-2724.9;	09-FEB-2004	19:13:29;	Bright;		52.5;	87;	64Gam UMa	;	2.43;	11000;occ;	105;	0;	10173
15;	-2455.1;	09-FEB-2004	19:17:59;	Bright;		41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;	10173
16;	-2210.1;	09-FEB-2004	19:22:04;	Bright;		37.5;	89;	5Alp Cep	;	2.45;	8000;occ;	75;	0;	10173
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20;	-1534.3;	09-FEB-2004	19:33:20;	Bright;		52.0;	133;	40Zet Her	;	2.81;	6000;occ;	104;	0;	10173
21;	-1329.5;	09-FEB-2004	19:36:45;	Bright;		77.0;	67;	5Alp CrB	;	2.22;	11000;occ;	154;	0;	10173
22;	-1167.0;	09-FEB-2004	19:39:27;	Dark	;	241.5;	83;		;	2.38;	11000;occ;	483;	0;	10173
23;	-653.1;	09-FEB-2004	19:48:01;	Dark	;	48.5;	86;	35Eta Oph	;	2.43;	10200;occ;	97;	0;	10173
24;	-552.6;	09-FEB-2004	19:49:42;	Dark	;	43.5;	116;	19Del Sgr	;	2.70;	4100;occ;	87;	0;	10173
25;	-482.9;	09-FEB-2004	19:50:51;	Dark	;	41.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	82;	0;	10173
26;	-371.5;	09-FEB-2004	19:52:43;	Dark	;	45.0;	25;	35Lam Sco	;	1.62;	28000;occ;	90;	0;	10173
27;	-289.2;	09-FEB-2004	19:54:05;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	10173
28;	-179.7;	09-FEB-2004	19:55:55;	Dark	;	39.0;	147;	Alp Ara	;	2.88;	26000;occ;	78;	0;	10173
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7;	-2962.9;	10-FEB-2004	06:53:43;	Bright;		58.5;	174;	52Psi UMa	;	3.00;	4400;occ;	117;	0;	10180
8;	-2832.7;	10-FEB-2004	06:55:53;	Bright;		47.0;	36;	50Alp UMa	;	1.80;	6300;occ;	94;	0;	10180
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13;	-1956.3;	10-FEB-2004	07:10:29;	Bright;		42.5;	130;	23Bet Dra	;	2.80;	5800;occ;	85;	0;	10180
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23;	-286.9;	10-FEB-2004	07:38:19;	Dark	;	43.5;	40;	The Sco	;	1.86;	7100;occ;	87;	0;	10180
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21;	-709.4;	18-FEB-2004	16:43:07;	Dark	;	40.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	80;	0;	10300
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22; -545.5; 29-FEB-2004 07:36:53; Dark ; 41.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 82; 0;10452
23; -359.9; 29-FEB-2004 07:39:58; Dark ; 51.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 103; 0;10452
24; -190.4; 29-FEB-2004 07:42:48; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;10452
25; 120.3; 29-FEB-2004 07:47:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10453
26; 351.9; 29-FEB-2004 07:51:50; Dark ; 38.0; 145; Gam TrA ; 2.87; 10600;occ; 76; 0;10453
27; 429.0; 29-FEB-2004 07:53:07; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;10453
28; 507.9; 29-FEB-2004 07:54:26; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;10453
29; 663.9; 29-FEB-2004 07:57:02; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10453
30; 748.1; 29-FEB-2004 07:58:26; Dark ; 44.0; 29; Bet Car ; 1.67; 10200;occ; 88; 0;10453
31; 916.5; 29-FEB-2004 08:01:15; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;10453
32; 1007.4; 29-FEB-2004 08:02:46; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;10453
33; 1181.4; 29-FEB-2004 08:05:40; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;10453
34; 1330.2; 29-FEB-2004 08:08:08; Dark ; 72.0; 106; 9Bet Crv ; 2.65; 5600;occ; 144; 0;10453
35; 1515.0; 29-FEB-2004 08:11:13; Dark ; 68.0; 100; 4Gam Crv ; 2.58; 13100;occ; 136; 0;10453
36; 1751.7; 29-FEB-2004 08:15:10; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;10453

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