

# GOMOS Daily Report 11-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	12FEB2004 06:55:39
Data source version	<Any version>
Start time of products	11-FEB-2004 (11FEB2004 00:00:00)
Stop time of products	12-FEB-2004 (12FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

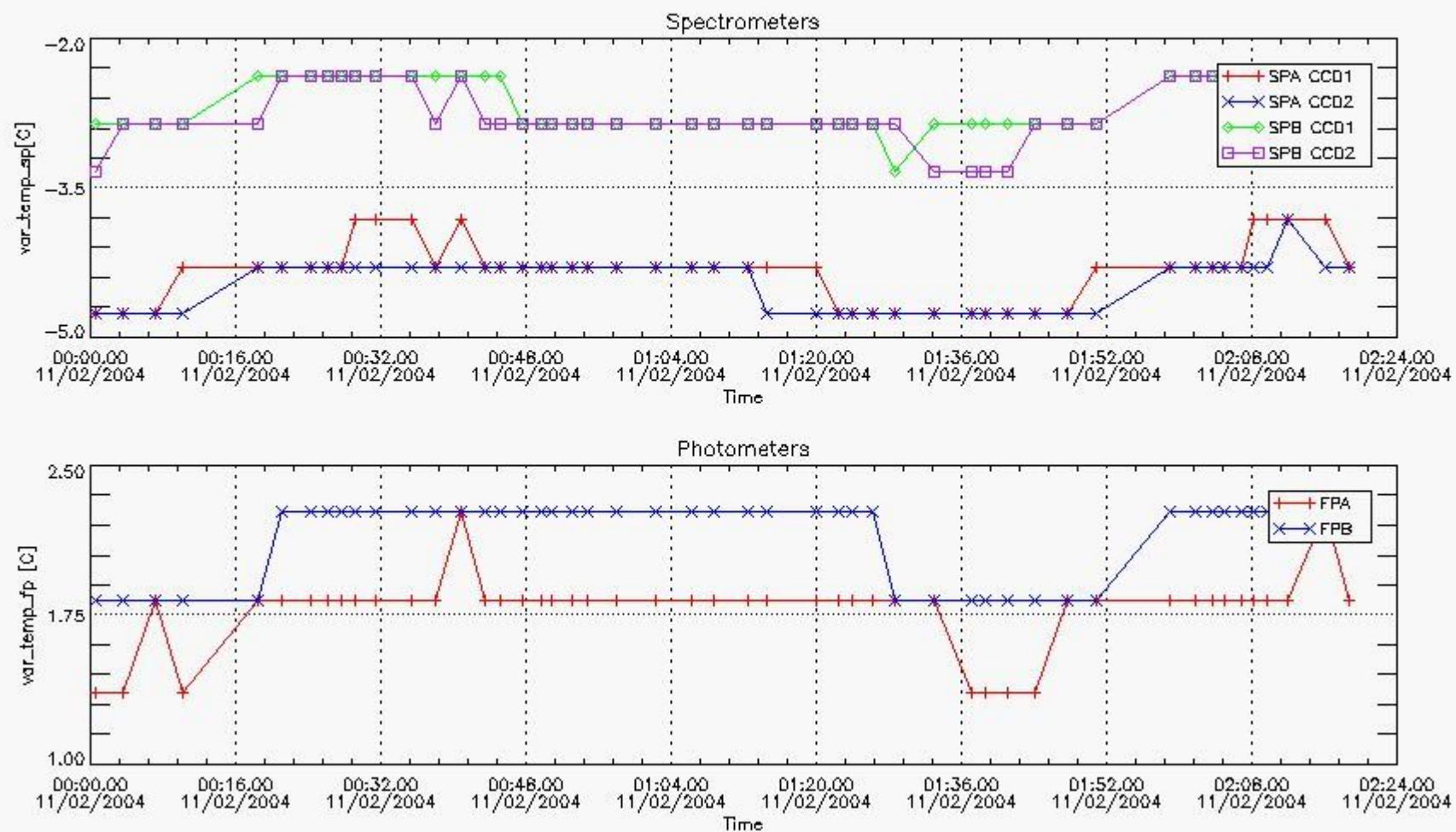
## 2. Summary of products arrived in PCF

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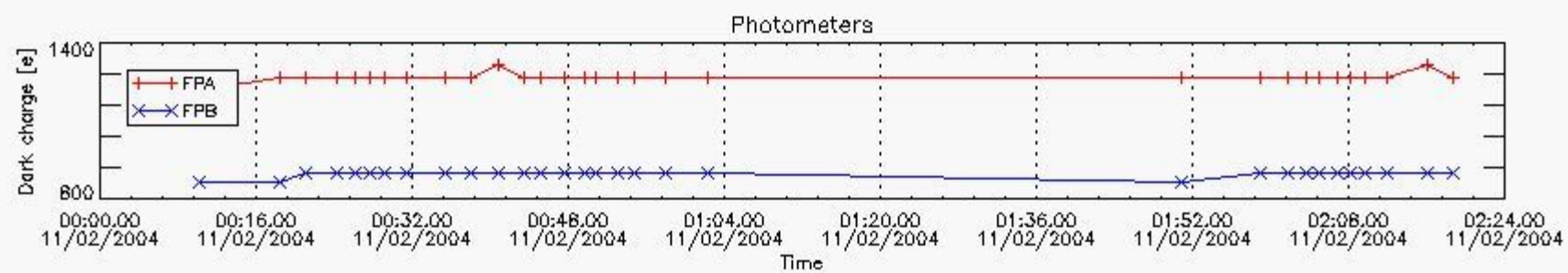
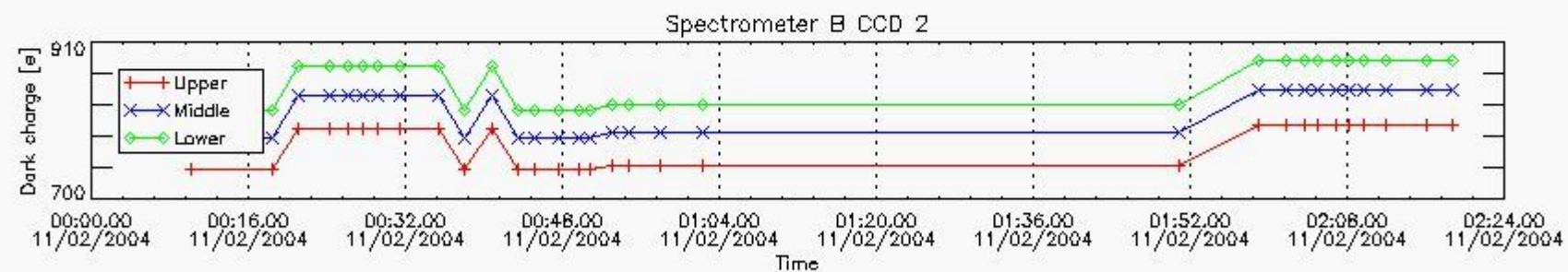
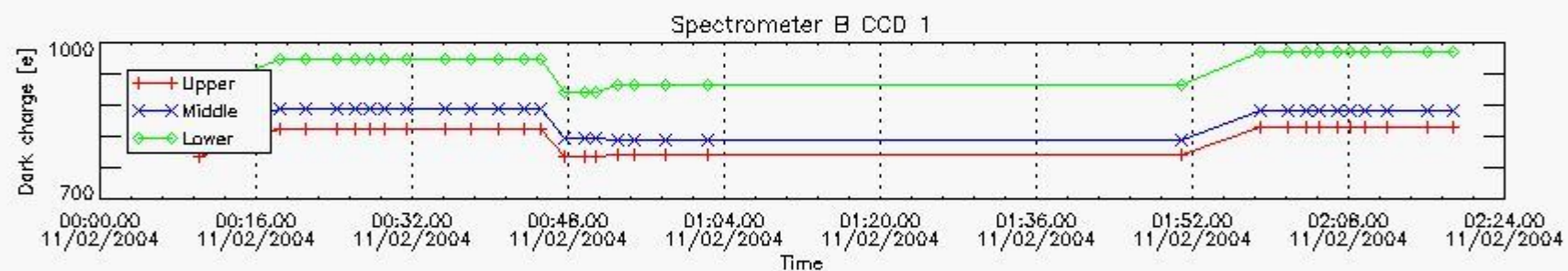
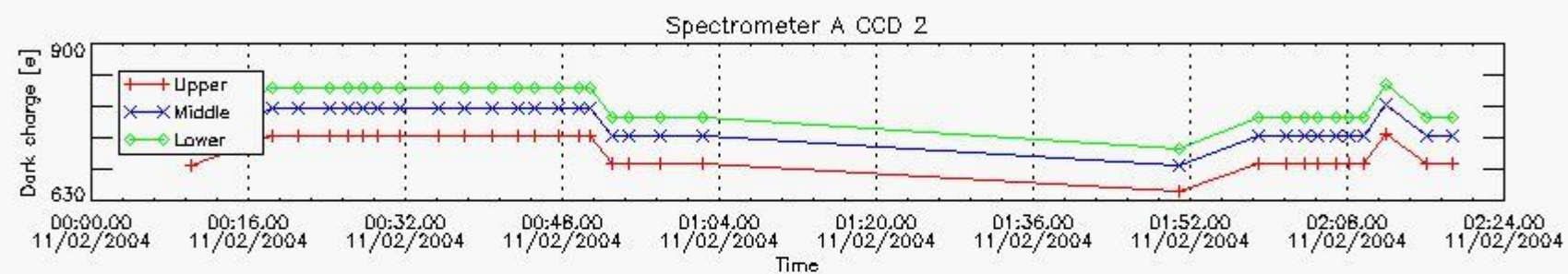
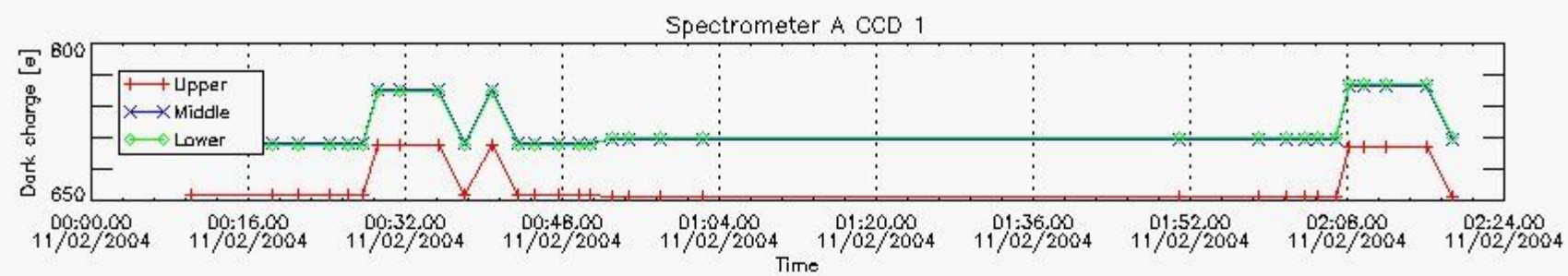
#### 4. Overview of dark signal processing per product

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

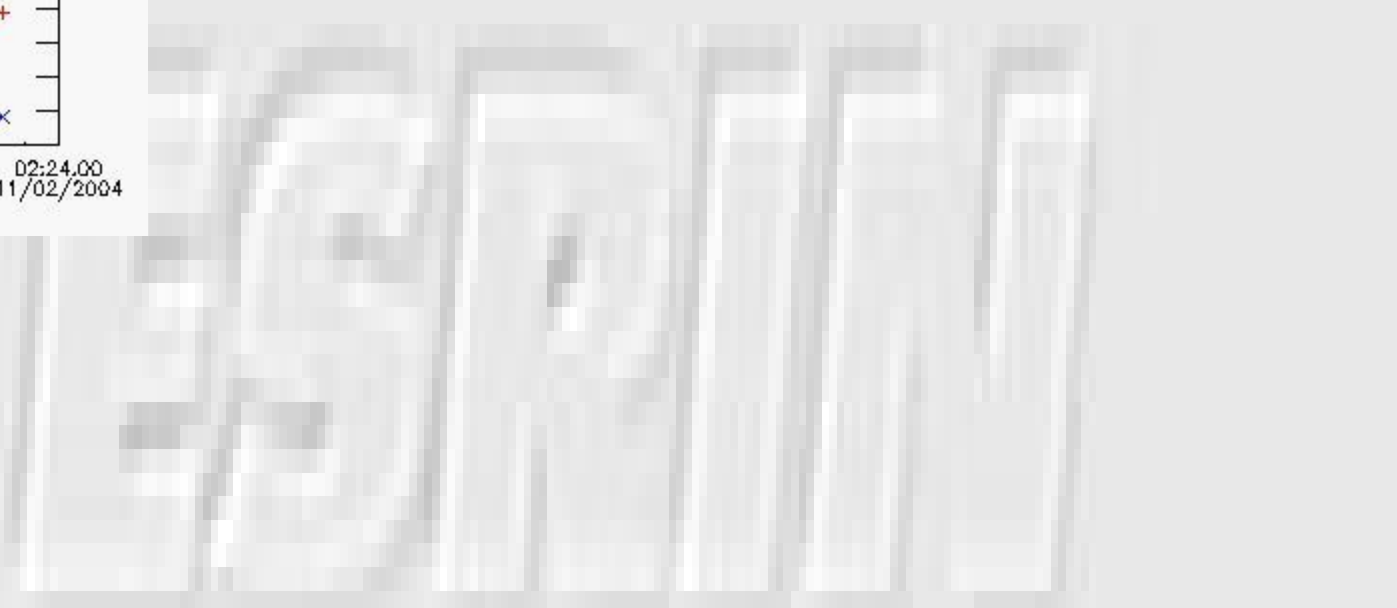
##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



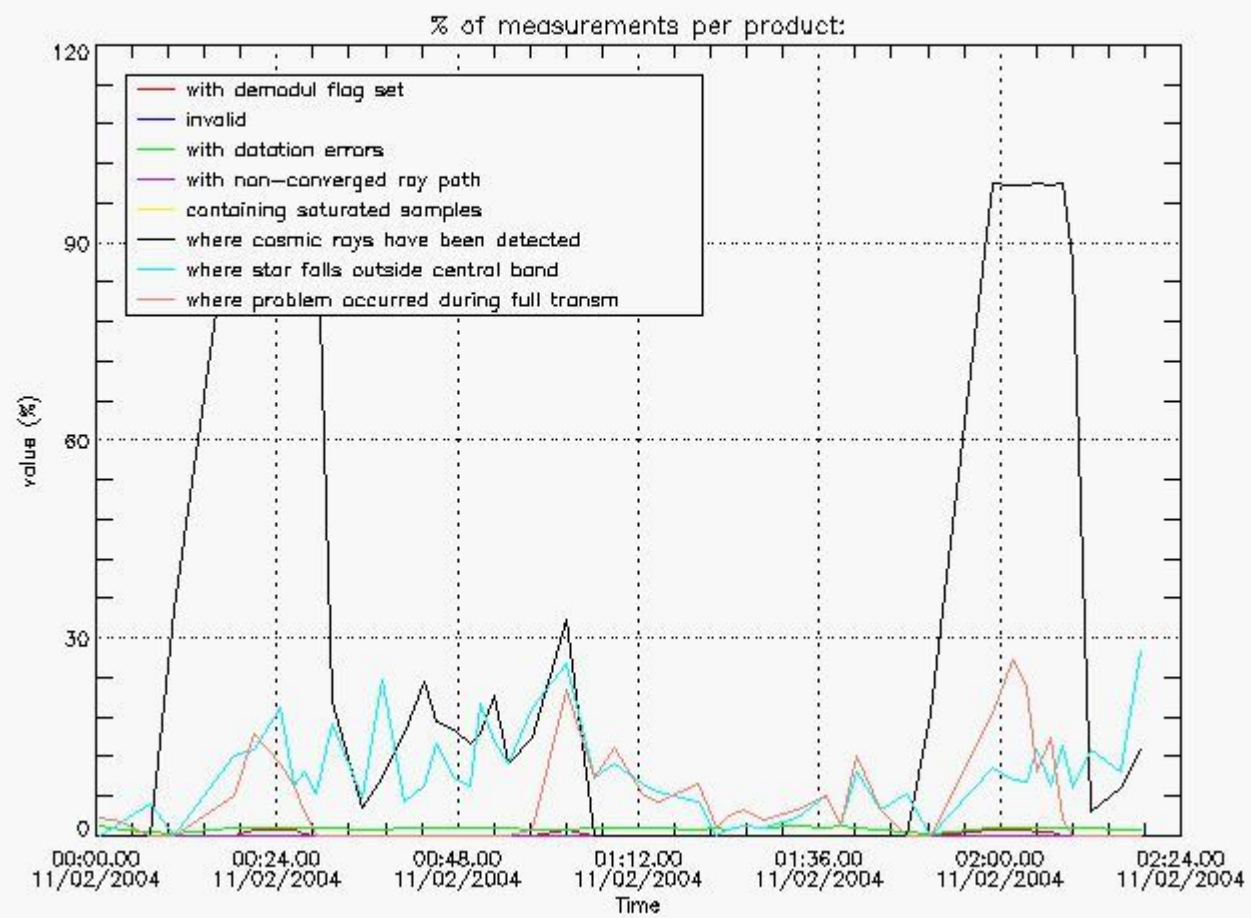
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	28.5714 %
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



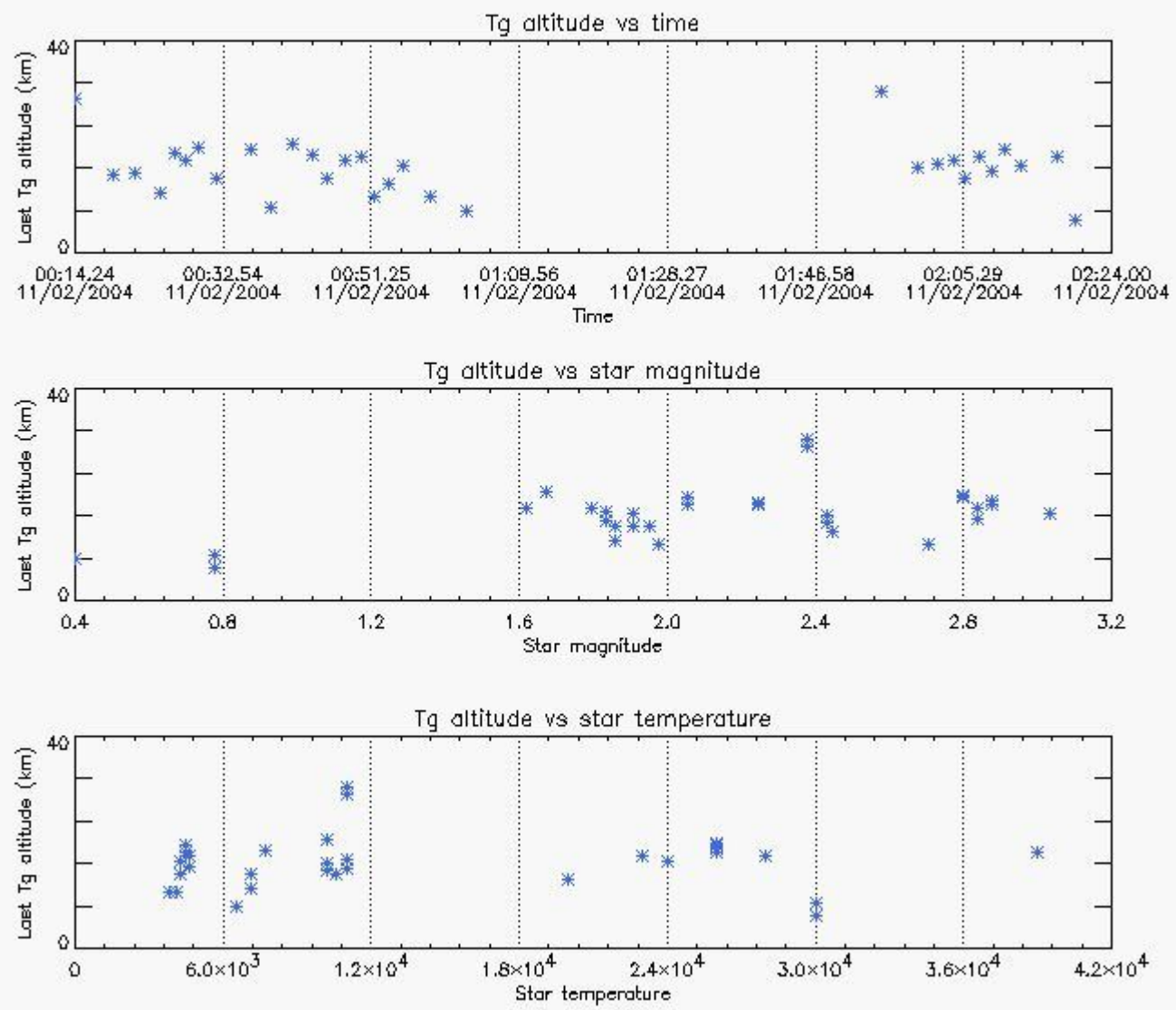
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

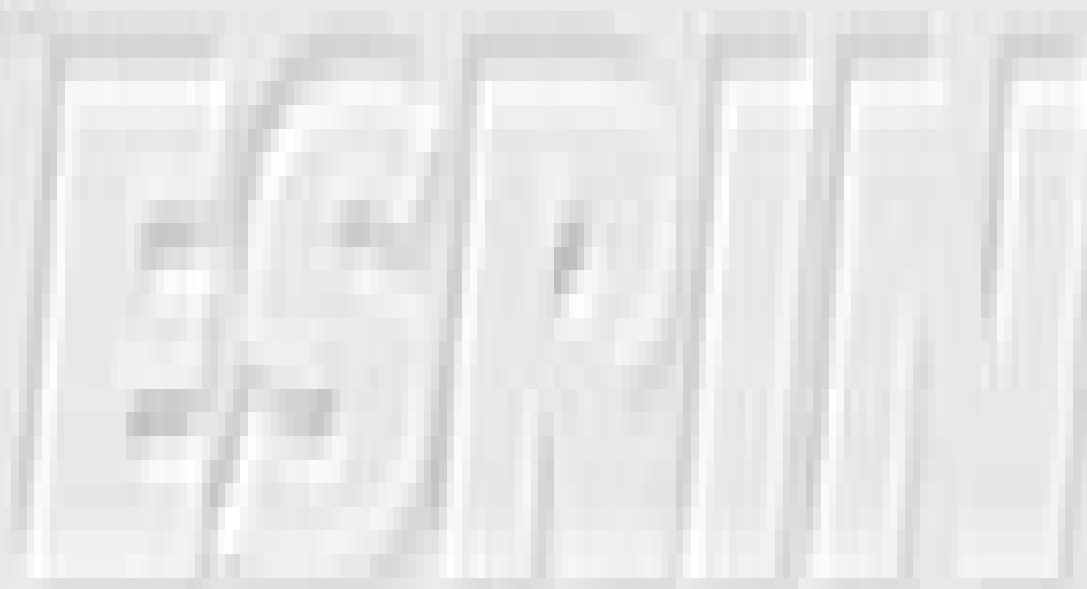
Statistics	DARK	BRIGHT
Mean:	16.251	21.176
St. deviation:	5.1335	3.1204
Maximum:	30.503	25.589
Minimum:	6.2887	15.481
Number of data:	31.000	18.000

### 6.2 Plot for DARK limb products

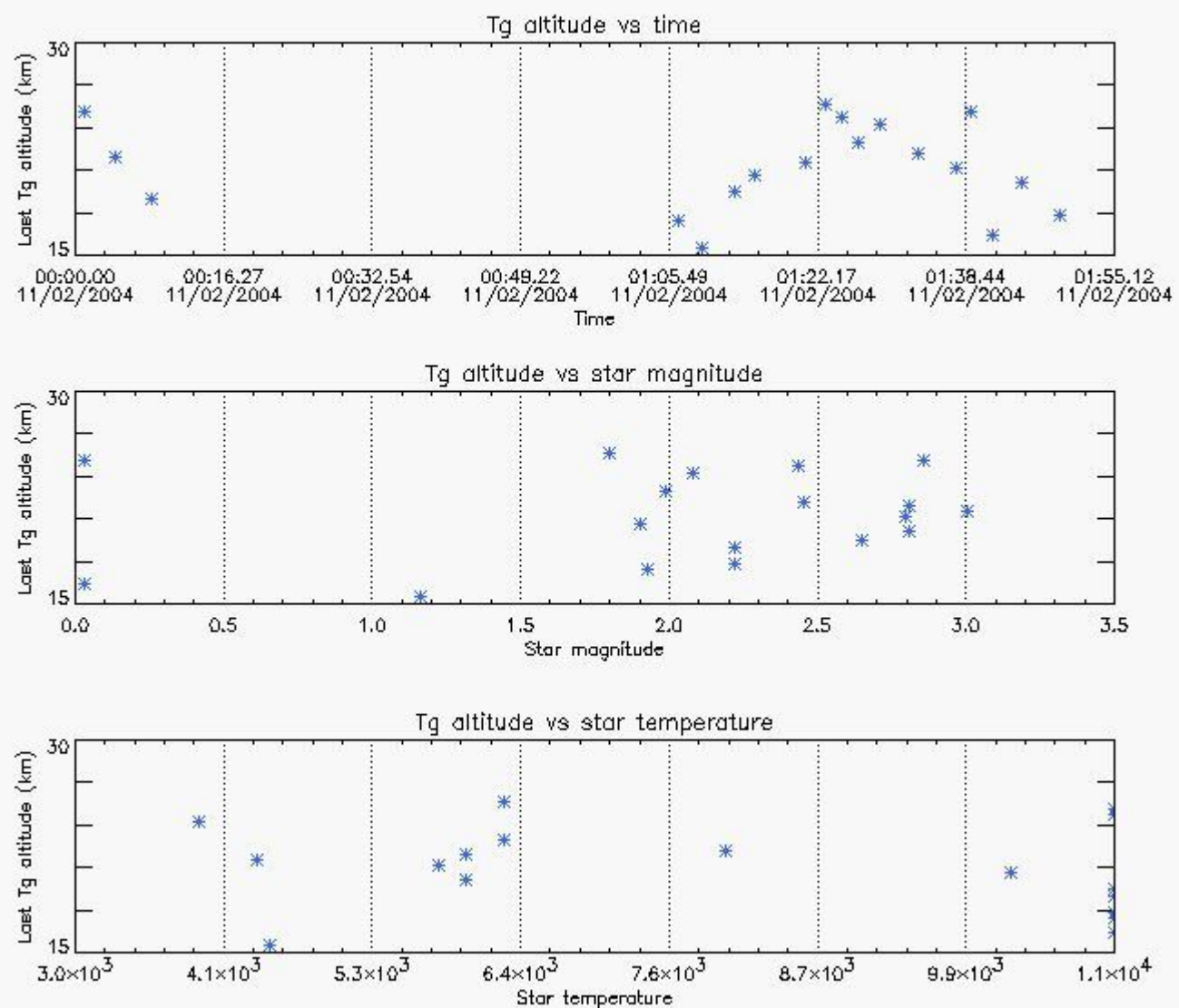
Tangent altitude at which the star is lost



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

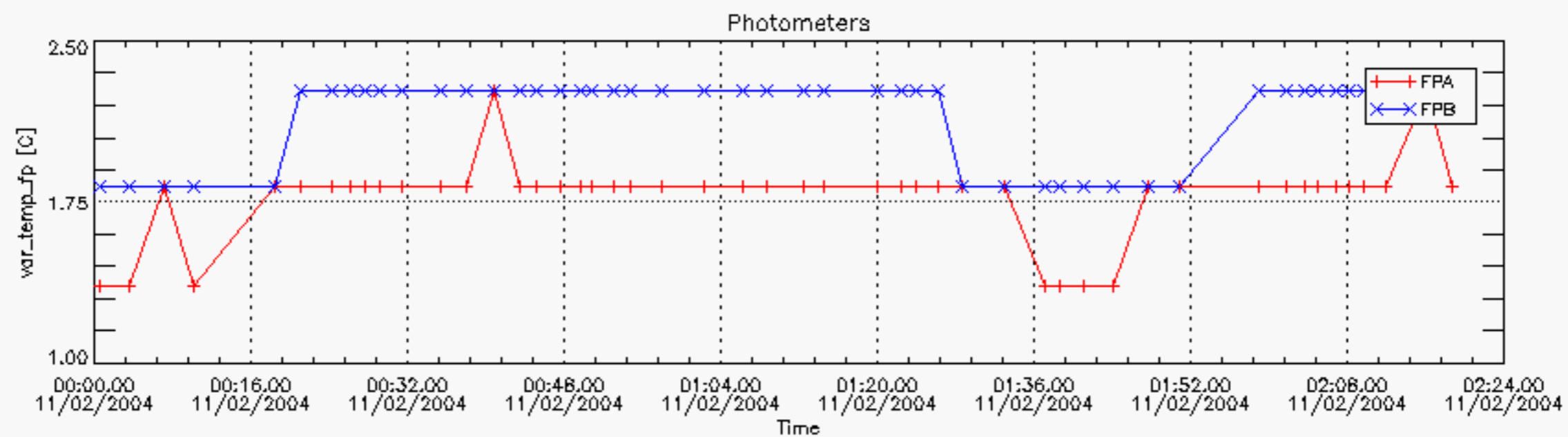
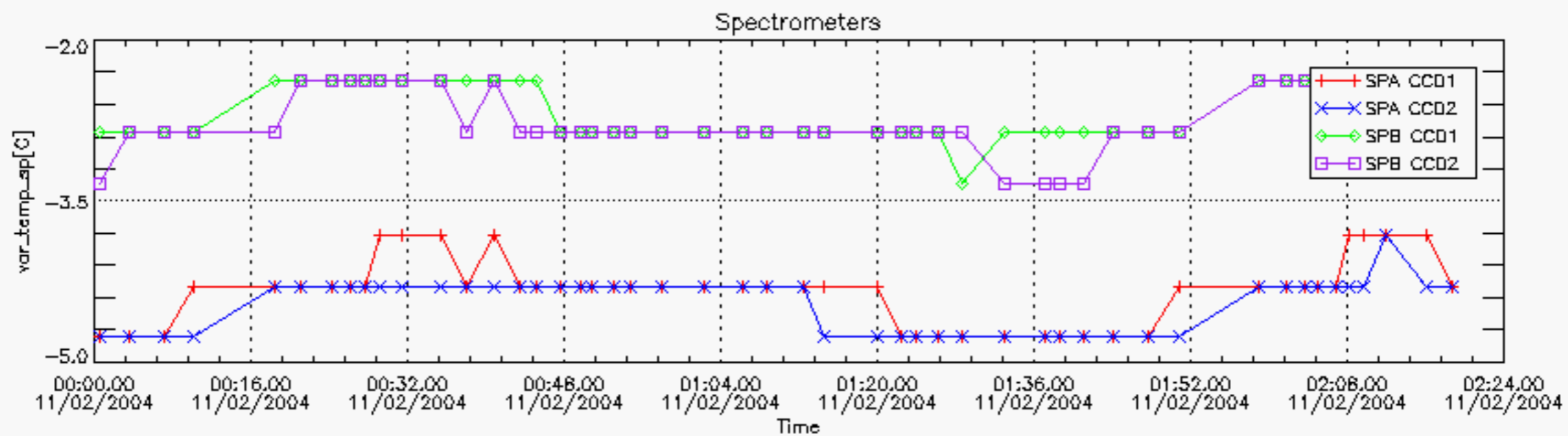
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

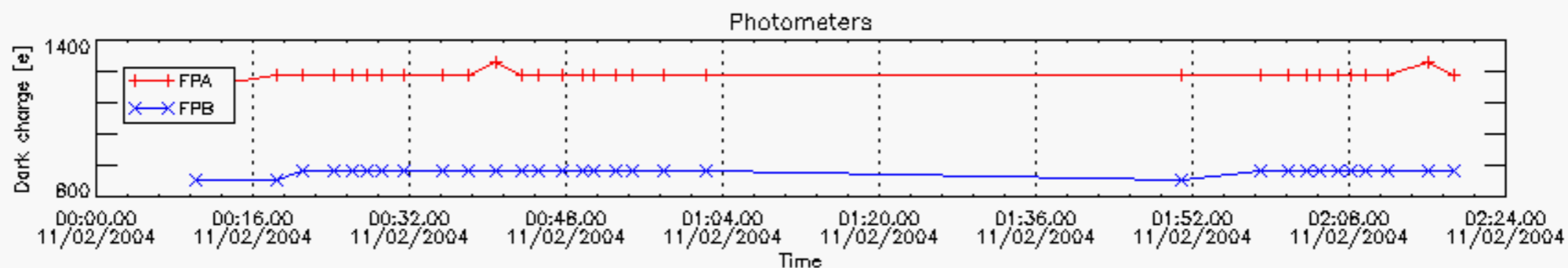
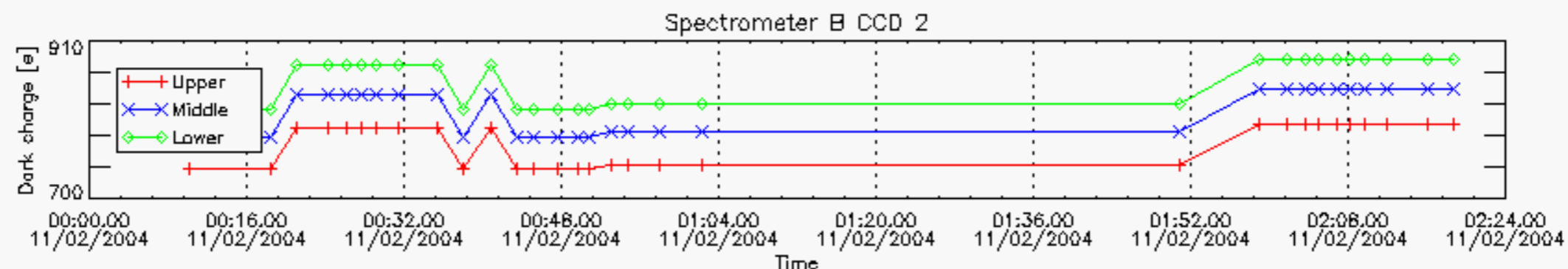
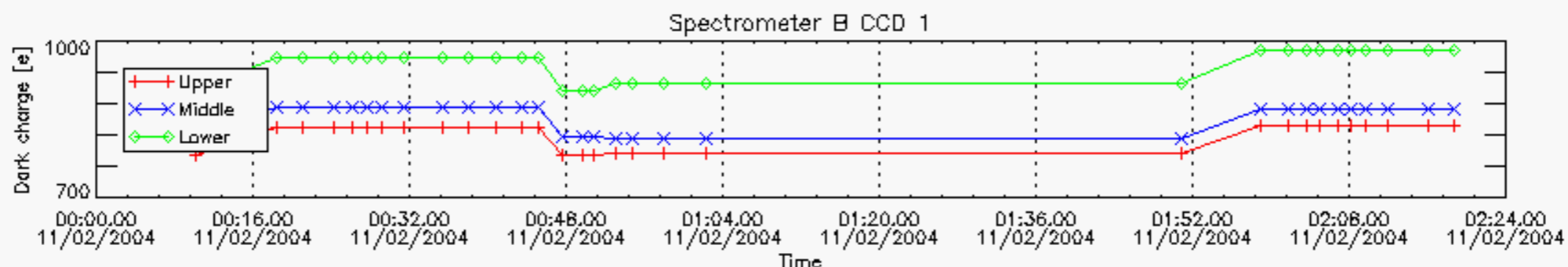
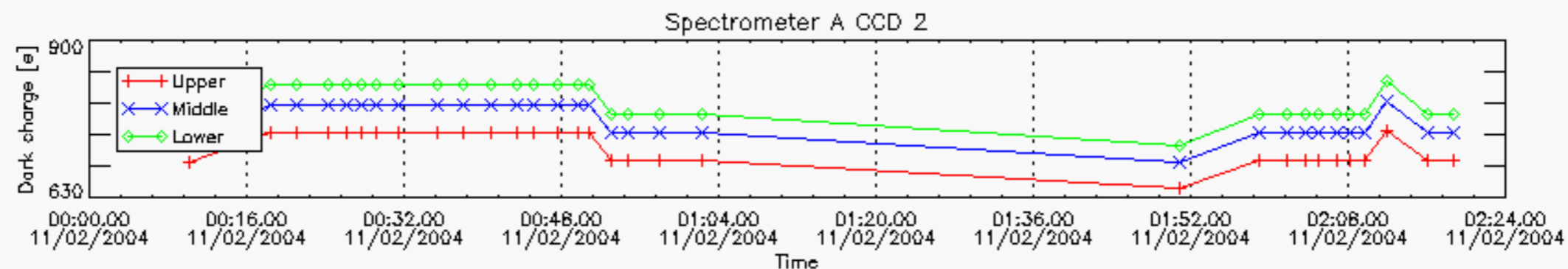
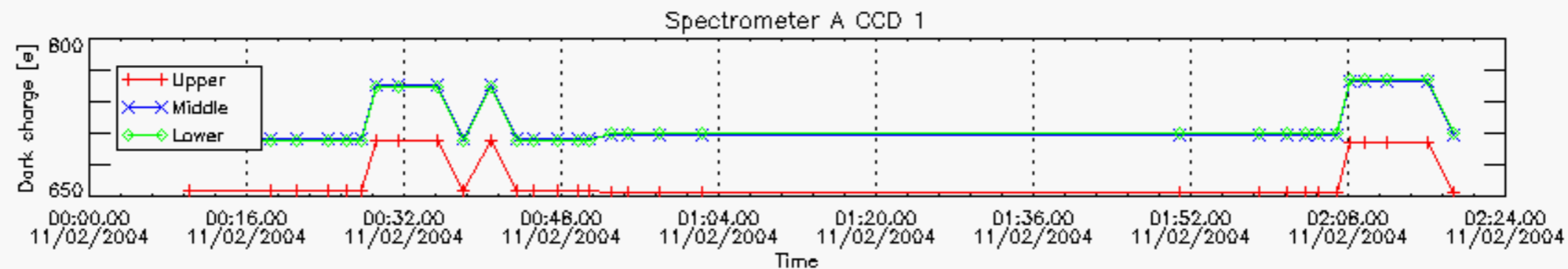
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.3	1461.2	1448.5
St. deviation:	5.5814	8.3841	6.9793	9.2334
Maximum:	1540.0	1720.0	1508.0	1507.0
Minimum:	1446.0	1435.0	1434.0	1420.0
Number of data:	45200.	45200.	22800.	22800.





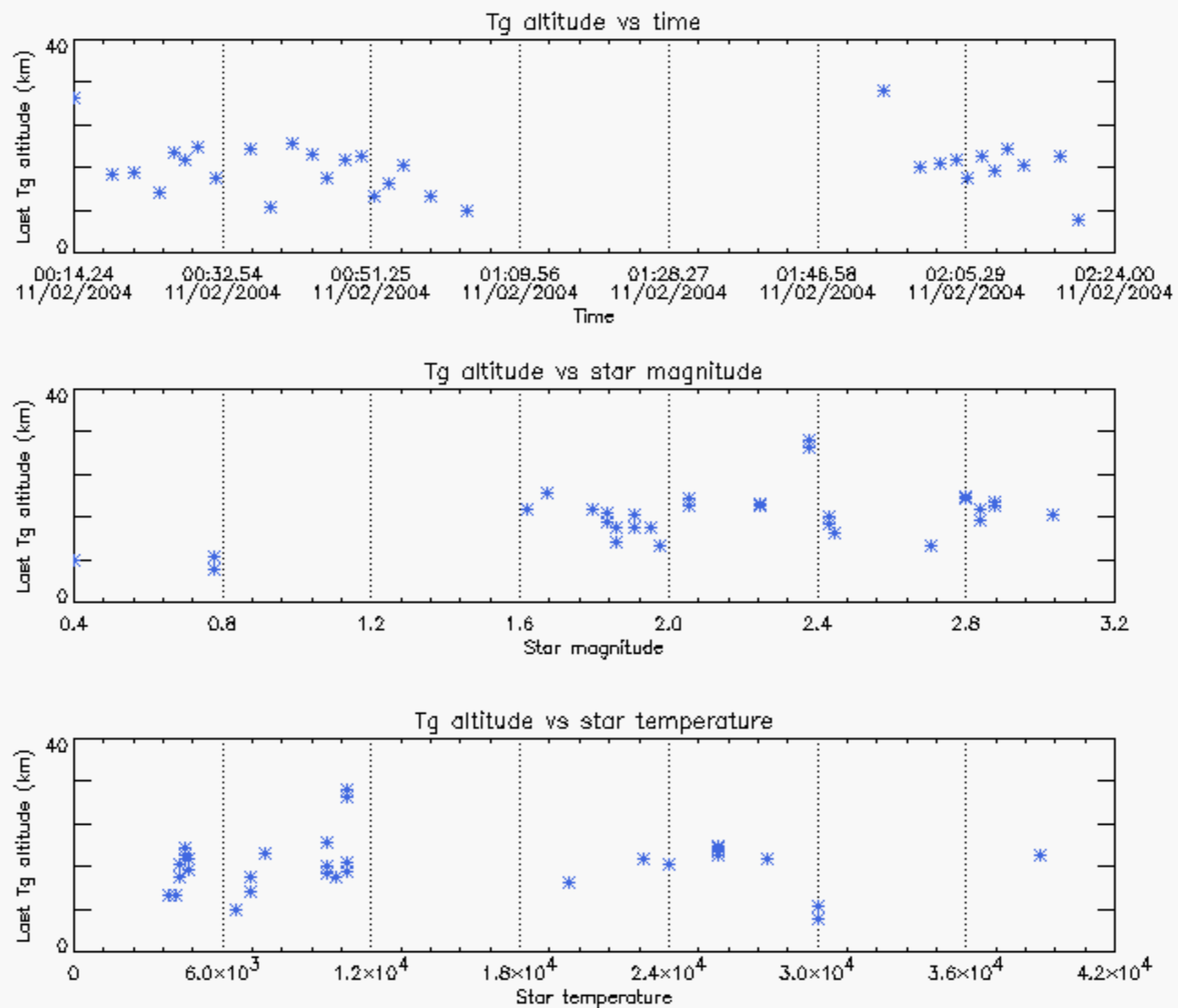




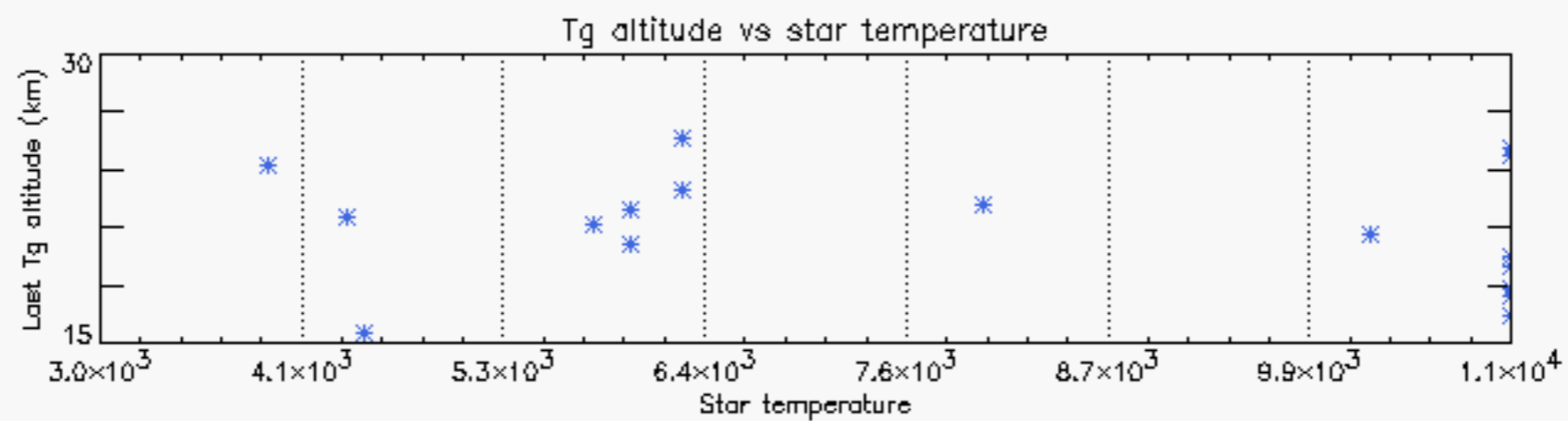
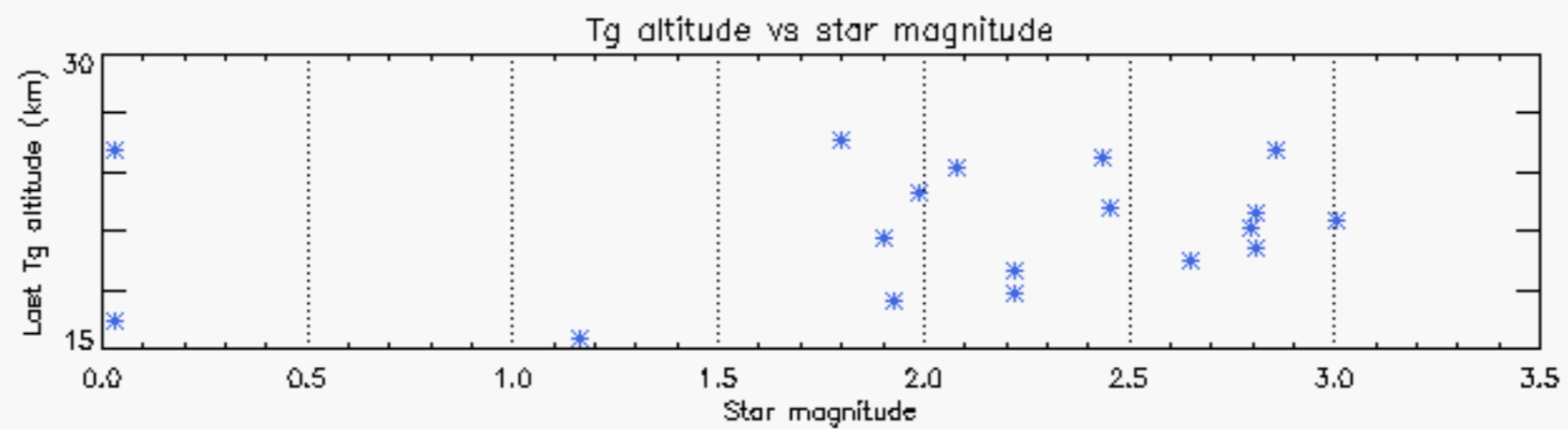
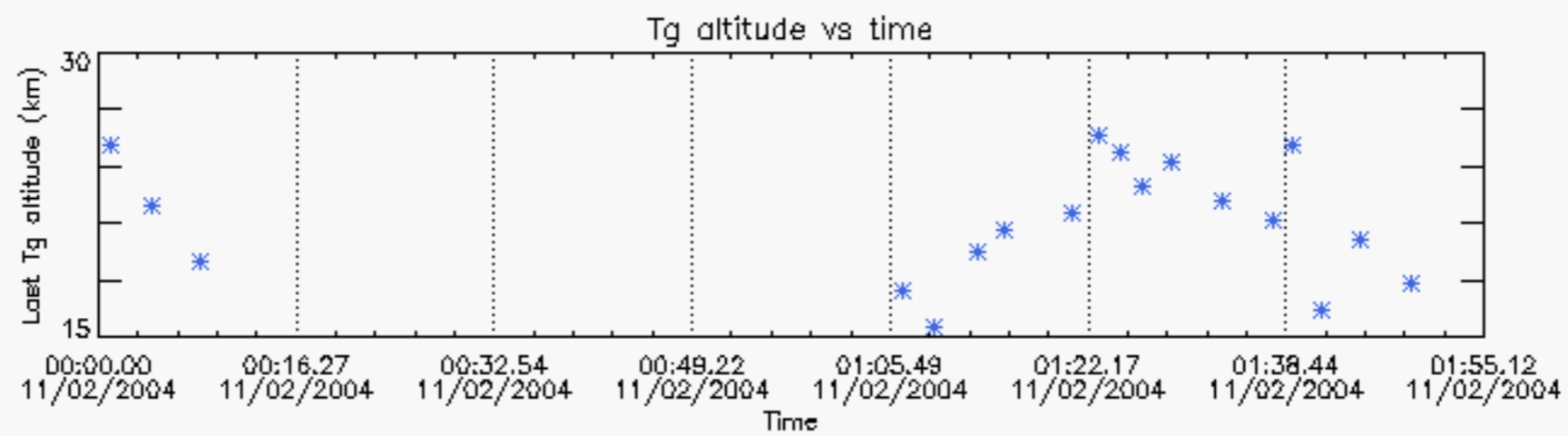




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 3; -4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051  
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 5; -3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051  
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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  
 8; -3470.2; 01-FEB-2004 06:28:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;10051  
 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  
 11; -2609.3; 01-FEB-2004 06:42:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10051  
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 13; -2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051  
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 33; 927.2; 01-FEB-2004 07:41:18; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;10052  
 34; 1078.5; 01-FEB-2004 07:43:49; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;10052  
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 37; 1432.5; 01-FEB-2004 07:49:43; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;10052  
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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
10;-2780.4; 01-FEB-2004 10:00:42; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;10053
11;-2609.2; 01-FEB-2004 10:03:33; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10053
12;-2423.7; 01-FEB-2004 10:06:39; Bright; 43.5; 60; 7Bet UMi ; 2.08; 3950;occ; 87; 0;10053
13;-2304.4; 01-FEB-2004 10:08:38; Bright; 56.5; 55; 79Zet UMa ; 2.06; 10200;occ; 113; 0;10053
14;-2140.7; 01-FEB-2004 10:11:22; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;10053
15;-1950.7; 01-FEB-2004 10:14:32; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;10053
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27; 582.9; 28-FEB-2004 11:48:30; Dark ; 38.5; 112; Alp Mus ; 2.69; 26000;occ; 77; 0;10441
28; 658.4; 28-FEB-2004 11:49:45; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;10441
29; 746.5; 28-FEB-2004 11:51:13; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;10441
30; 914.6; 28-FEB-2004 11:54:01; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;10441
31; 1006.1; 28-FEB-2004 11:55:33; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;10441
32; 1178.6; 28-FEB-2004 11:58:25; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;10441
33; 1324.8; 28-FEB-2004 12:00:52; Dark ; 72.0; 106; 9Bet Crv ; 2.65; 5600;occ; 144; 0;10441
34; 1510.7; 28-FEB-2004 12:03:58; Dark ; 64.0; 100; 4Gam Crv ; 2.58; 13100;occ; 128; 0;10441
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6;-3541.0; 29-FEB-2004 06:46:57; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;10452
7;-3215.2; 29-FEB-2004 06:52:23; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;10452
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9;-2775.6; 29-FEB-2004 06:59:43; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 0;10452
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13;-1999.5; 29-FEB-2004 07:12:39; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;10452
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