

GOMOS Daily Report 05-APR-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.

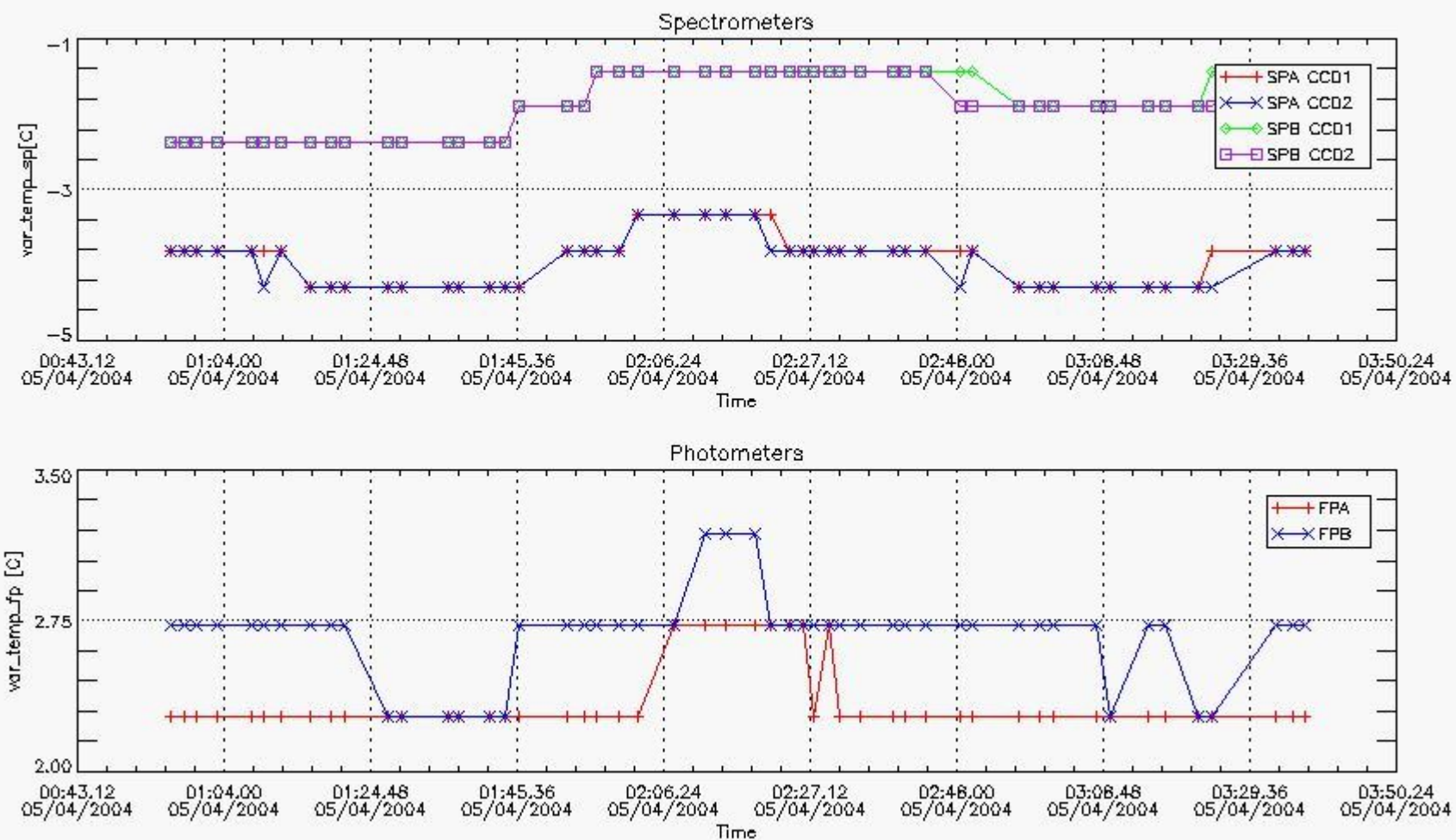
Item	Value
Time of report generation	06APR2004 07:00:00
Data source version	GOMOS/4.02
Start time of products	05-APR-2004 (05APR2004 00:00:00)
Stop time of products	06-APR-2004 (06APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

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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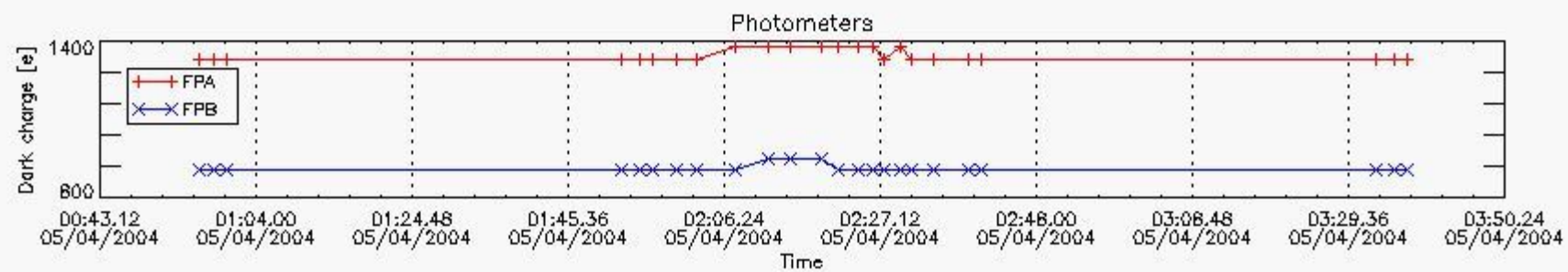
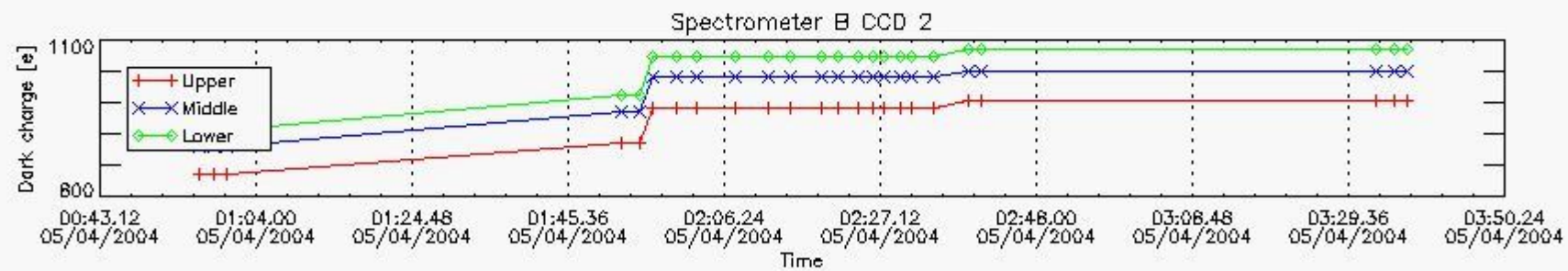
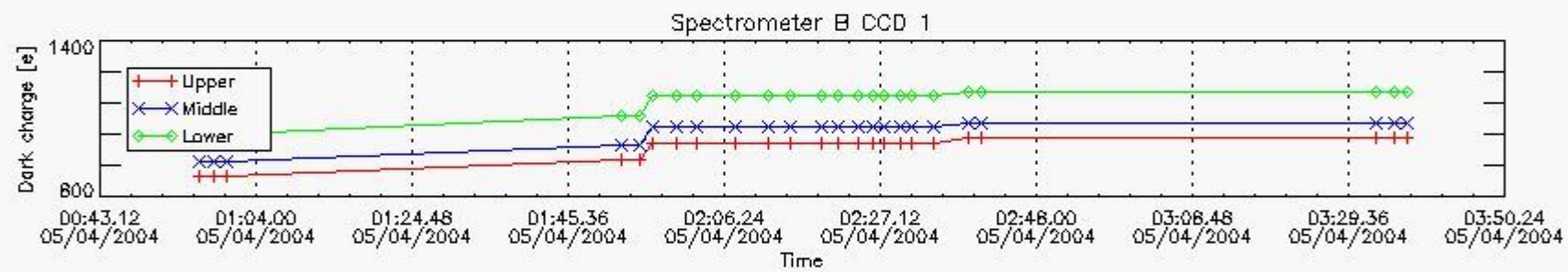
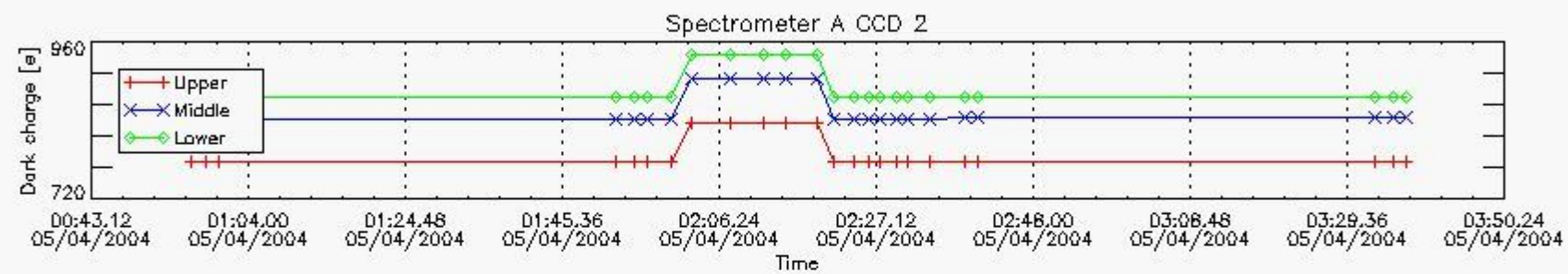
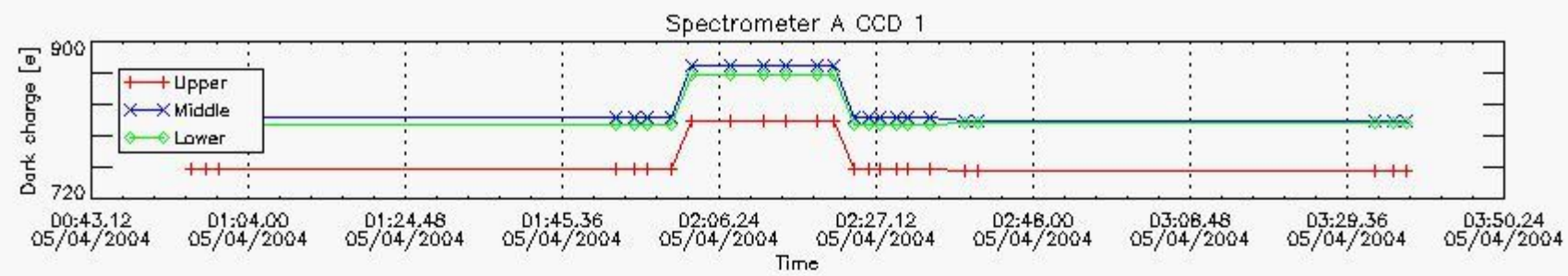
4. Overview of dark signal processing per product

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

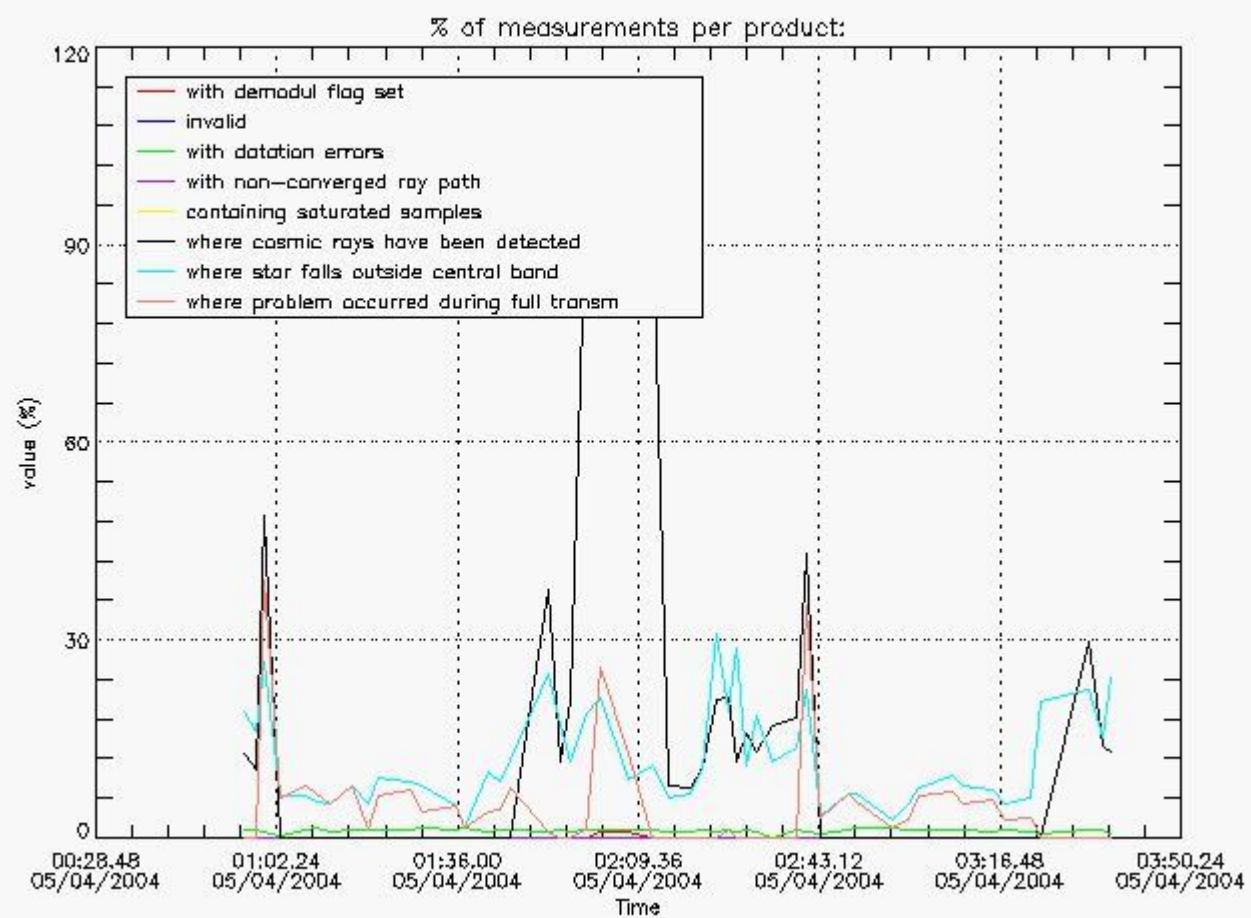


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
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



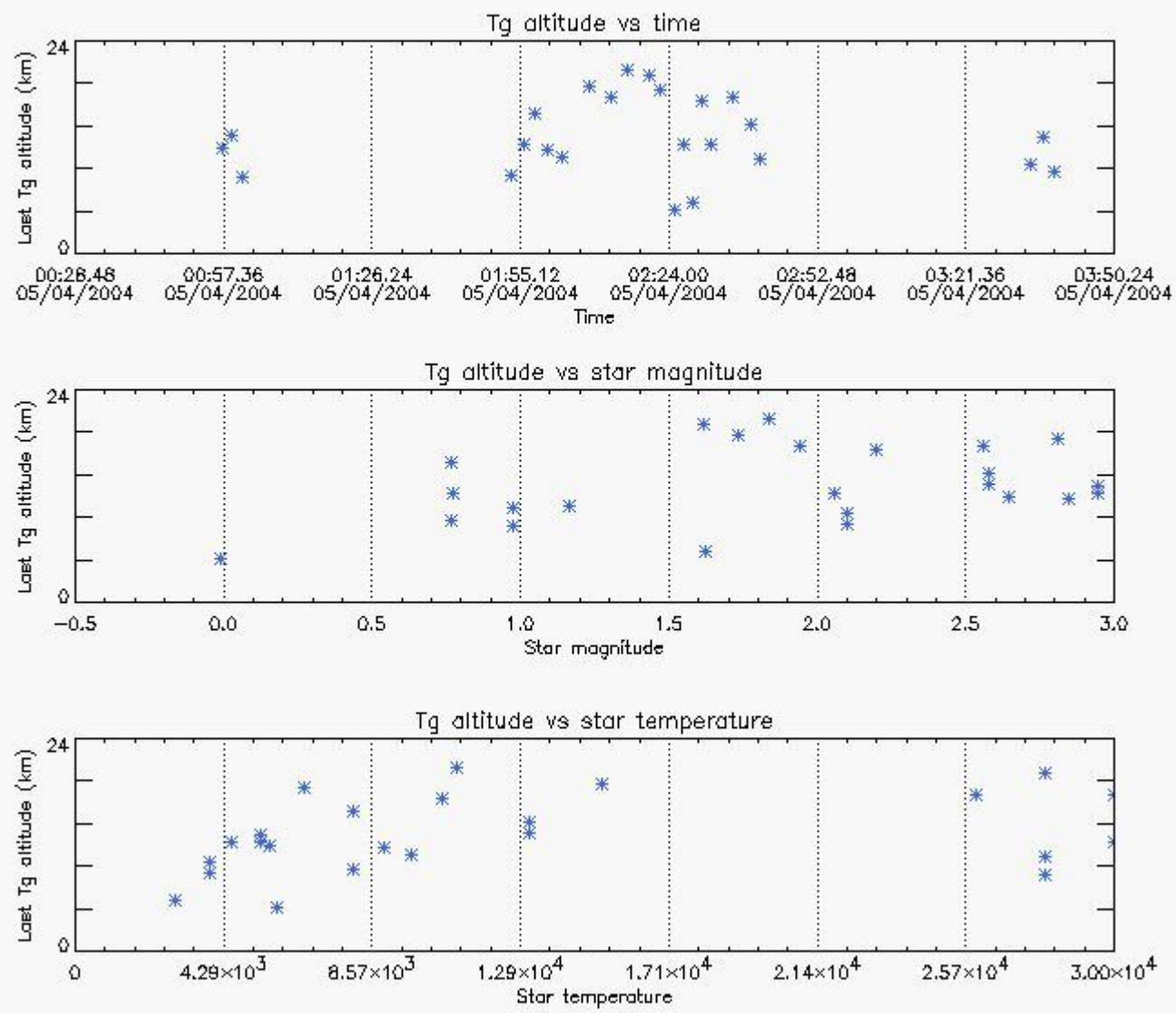
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.182	20.493
St. deviation:	4.3606	2.4762
Maximum:	20.819	25.607
Minimum:	4.8926	11.805
Number of data:	24.000	26.000

6.2 Plot for DARK limb products

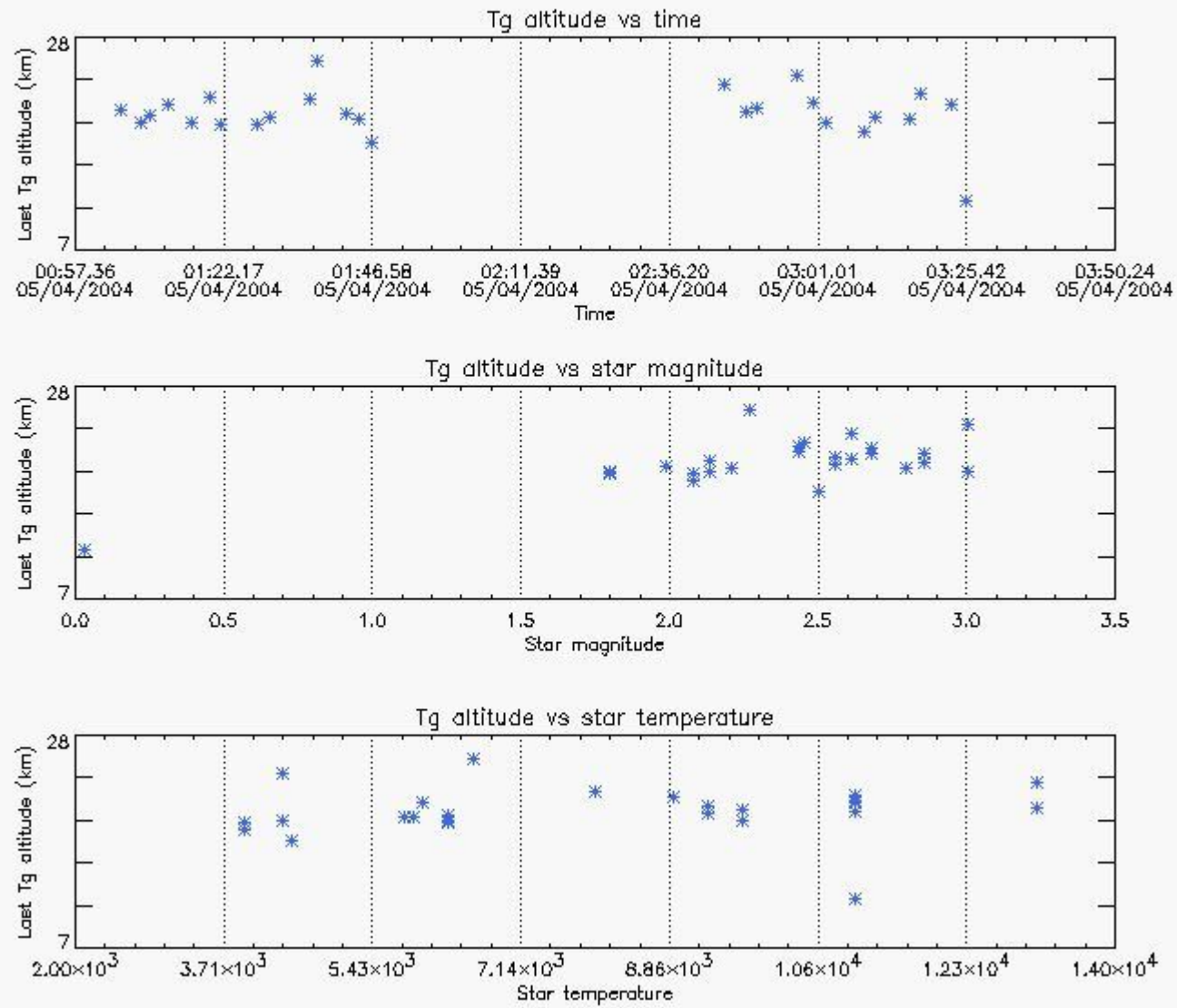
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

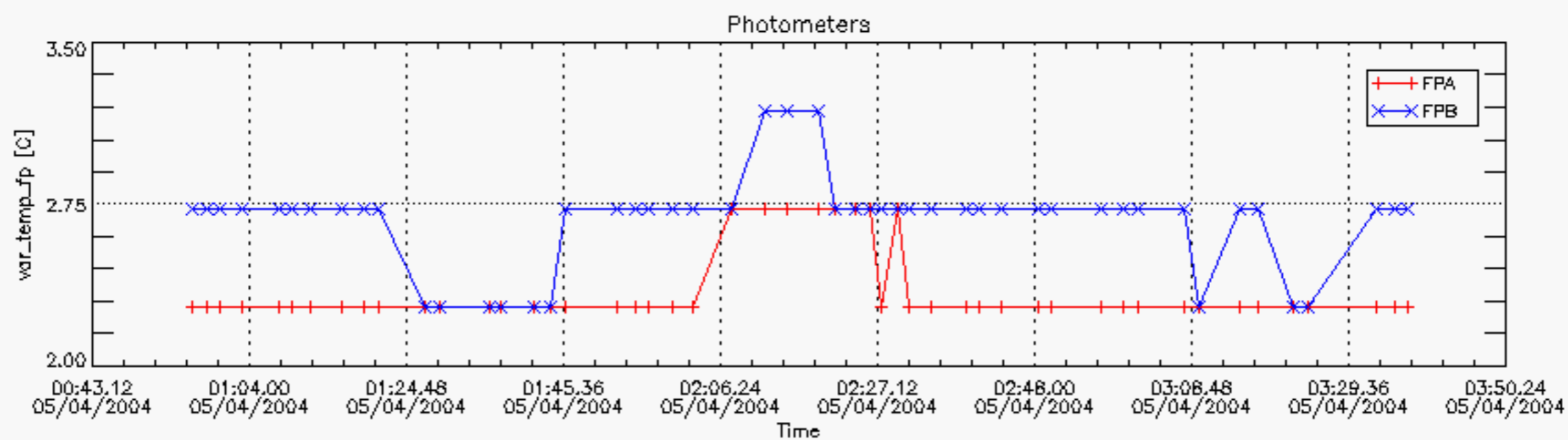
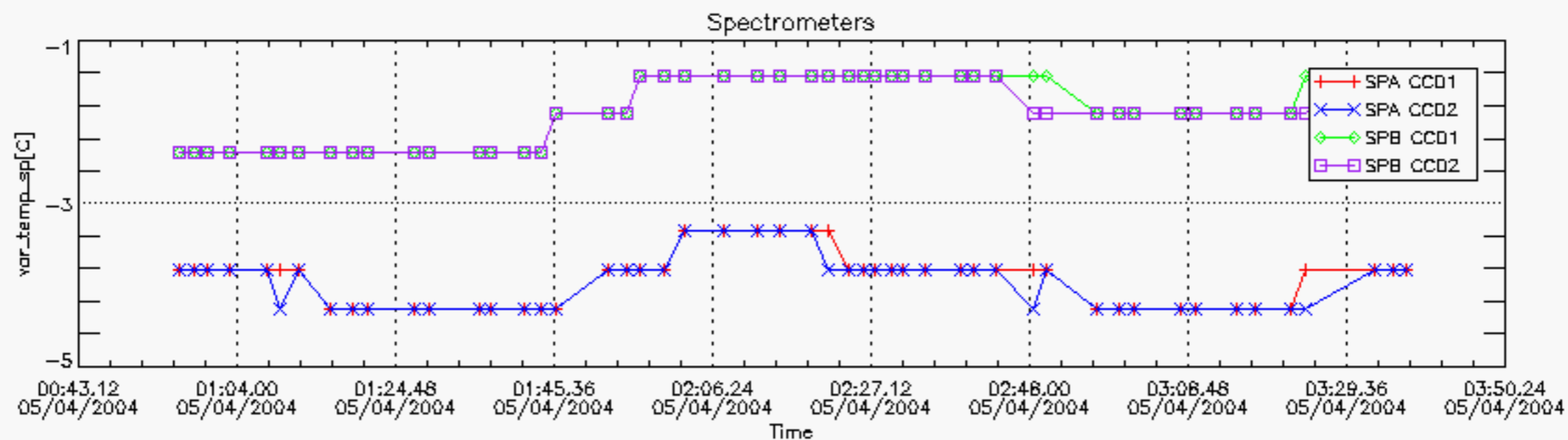


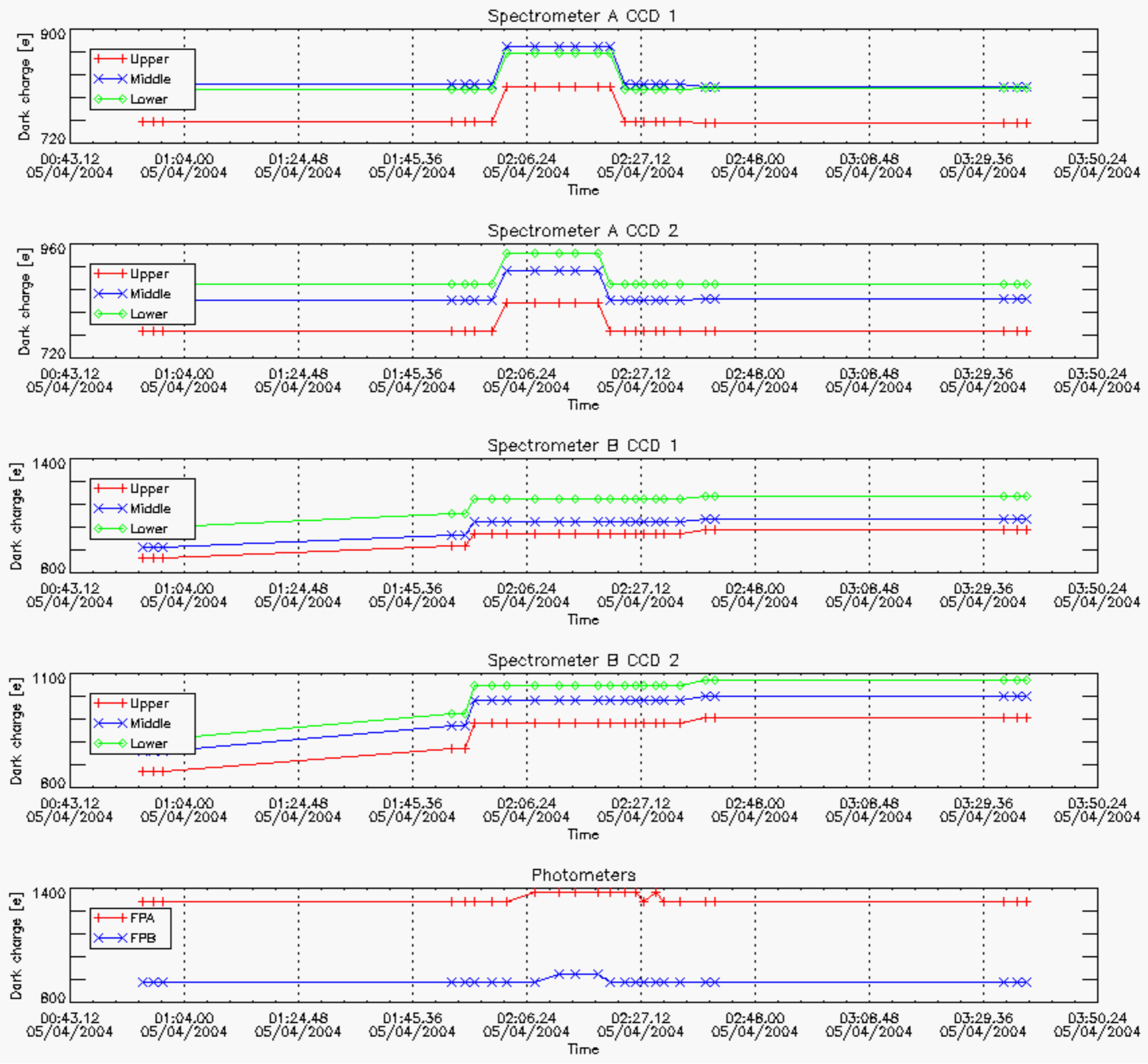
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

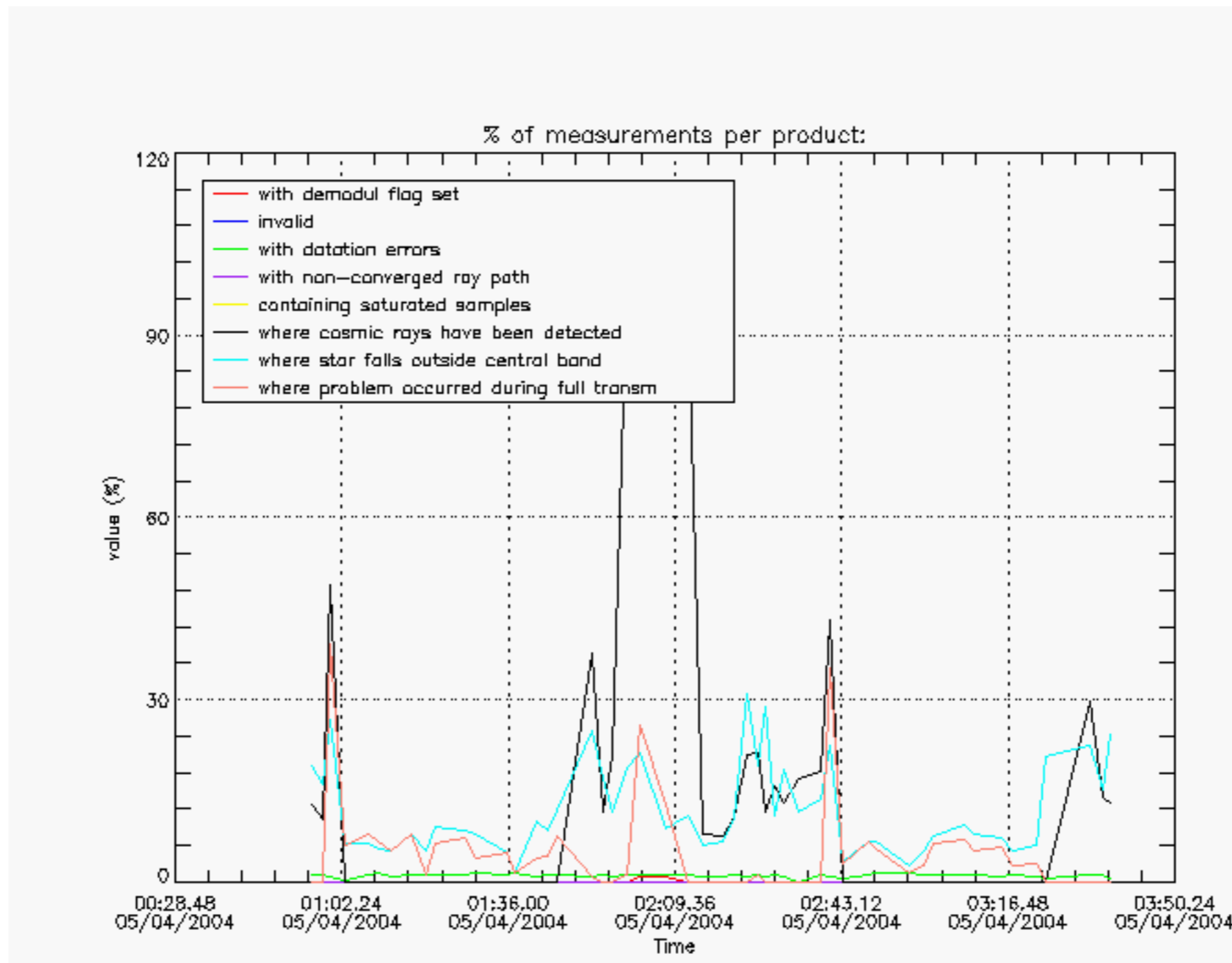
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.8	1447.1	1462.0	1448.6
St. deviation:	4.9467	7.2286	7.6038	9.9915
Maximum:	1585.0	1491.0	1515.0	1512.0
Minimum:	1450.0	1442.0	1451.0	1409.0
Number of data:	31050.	31050.	33250.	33250.

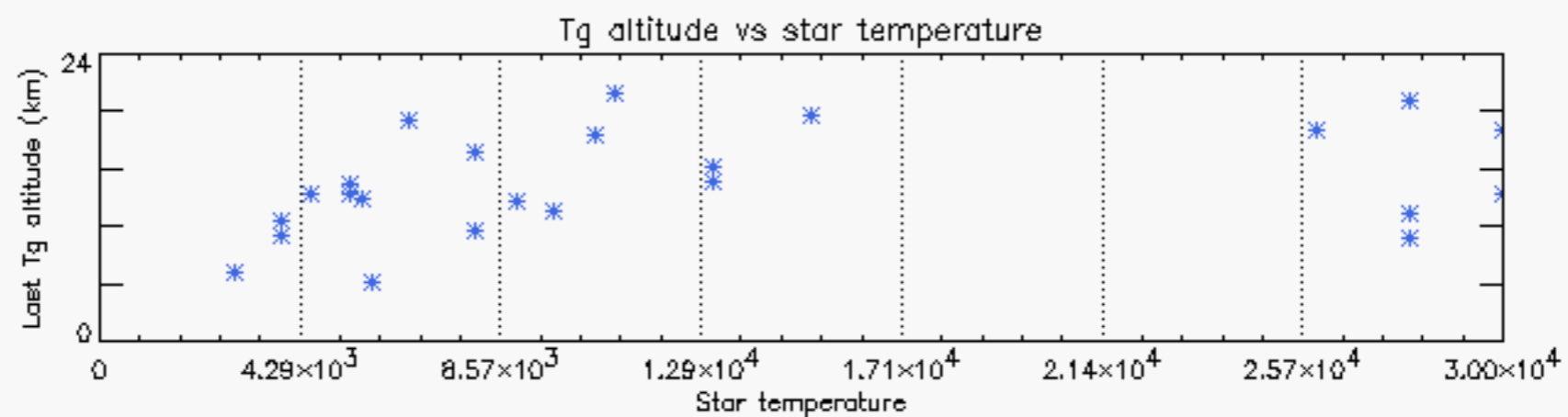
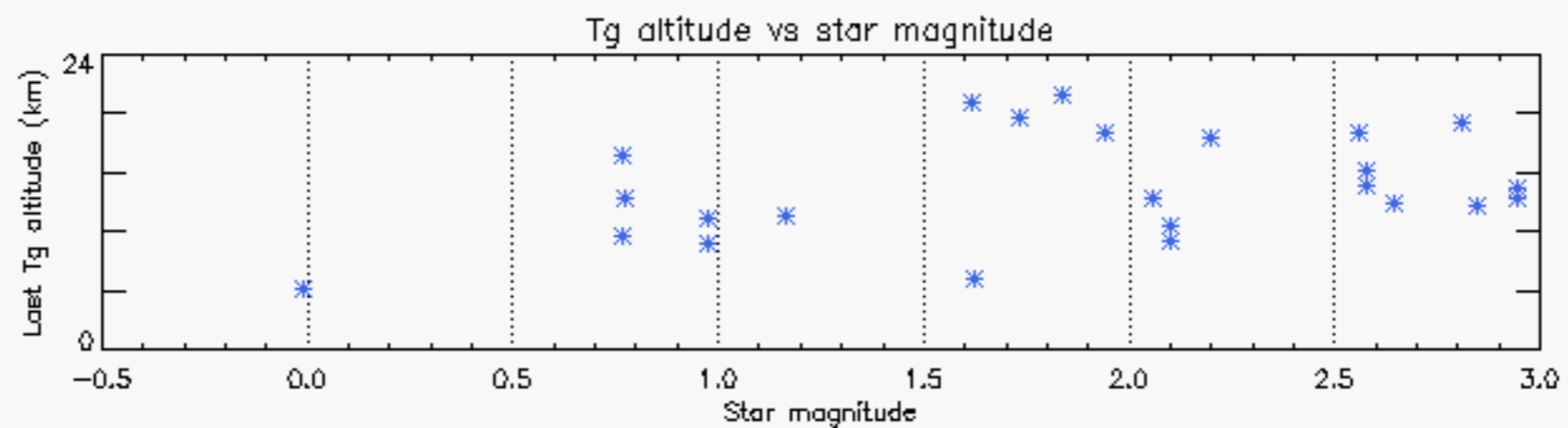
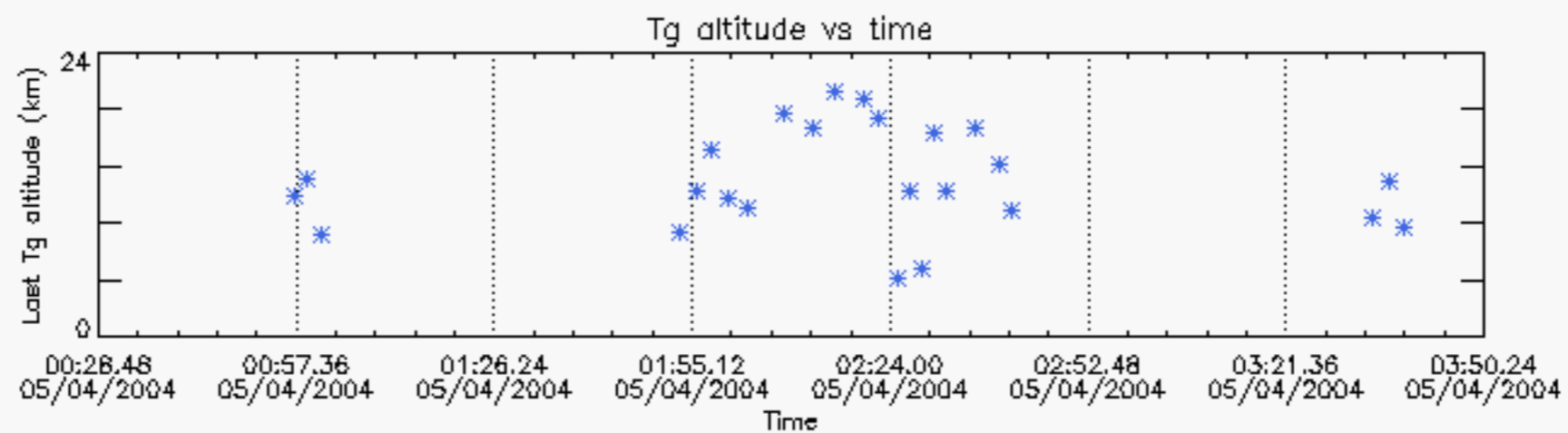




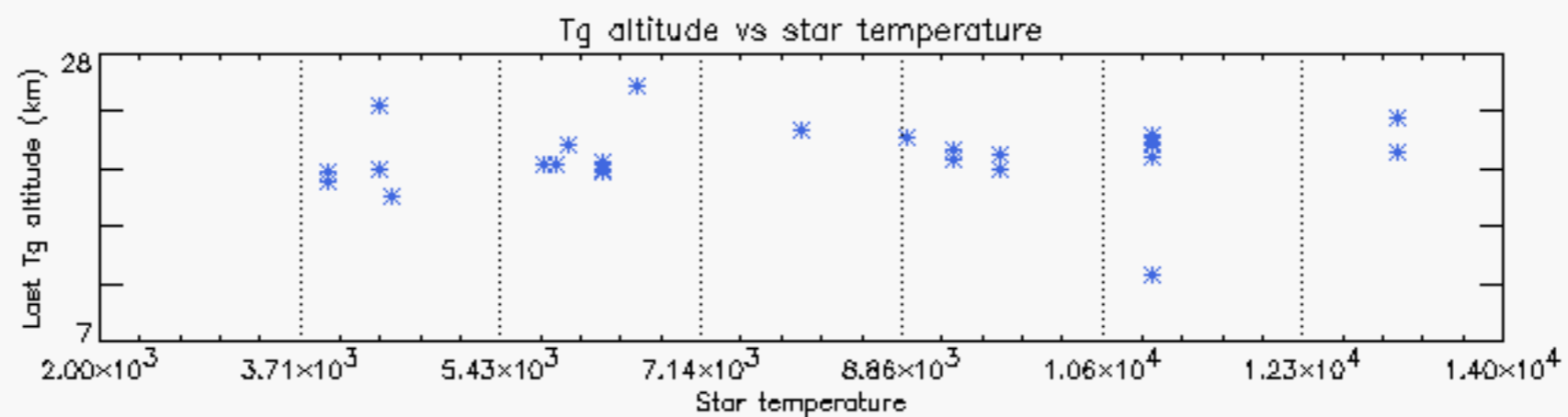
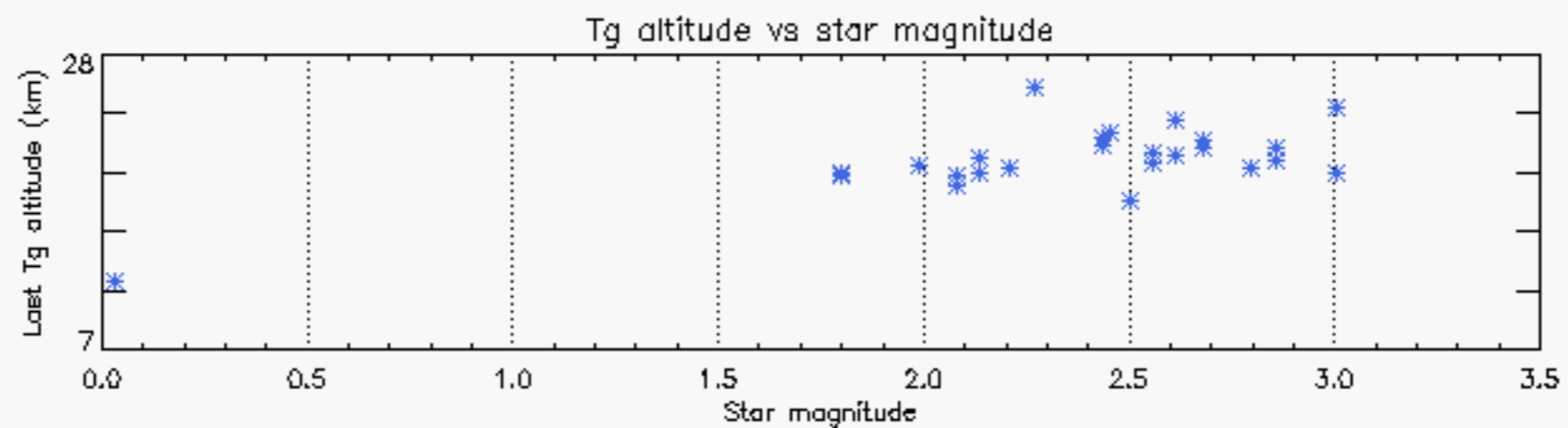
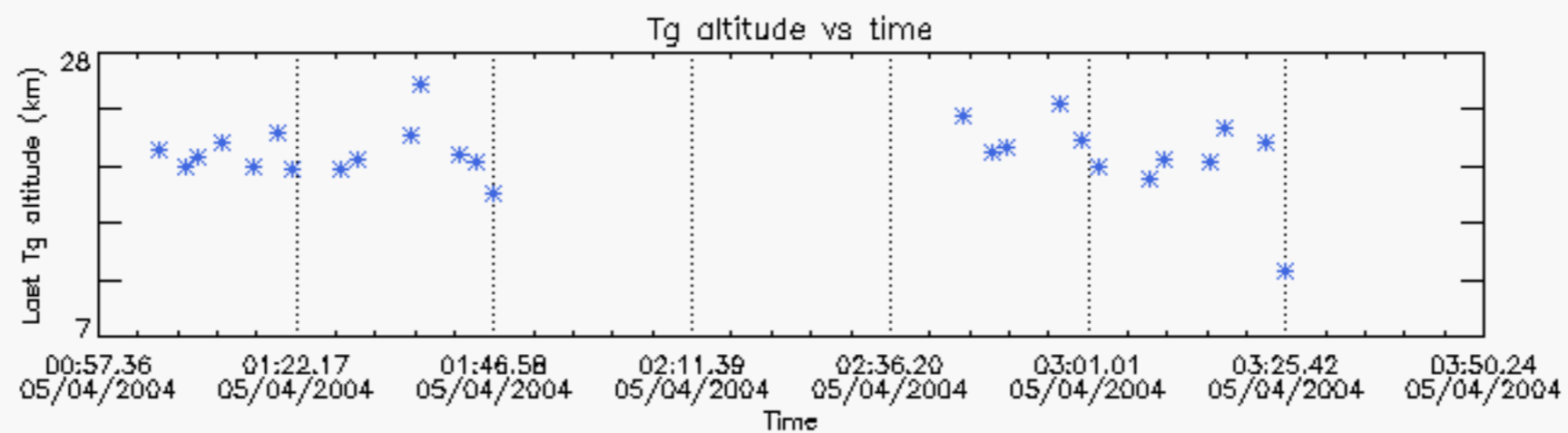




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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3;-4349.5; 01-APR-2004 01:25:57; Dark ; 63.5; 15; 67Alp Vir ; 0.98; 28000;occ; 127; 0;10907
4;-4154.5; 01-APR-2004 01:29:12; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10907
5;-3877.5; 01-APR-2004 01:33:49; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;10907
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25; 69.2; 01-APR-2004 02:39:36; Dark ; 63.5; 116; 19Del Sgr ; 2.70; 4100;occ; 127; 0;10908
26; 300.8; 01-APR-2004 02:43:28; Dark ; 58.0; 40; The Sco ; 1.86; 7100;occ; 116; 0;10908
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28; 518.1; 01-APR-2004 02:47:05; Dark ; 41.5; 134; Bet TrA ; 2.81; 6600;occ; 83; 0;10908
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19; -777.3; 01-APR-2004 12:29:05; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;10913
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22; -166.1; 01-APR-2004 12:39:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10913
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31; 1017.2; 01-APR-2004 12:59:00; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;10914
32; 1104.9; 01-APR-2004 13:00:27; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;10914
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27; 518.8; 01-APR-2004 06:08:18; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10910
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