

GOMOS Daily Report 11-DEC-2003

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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.

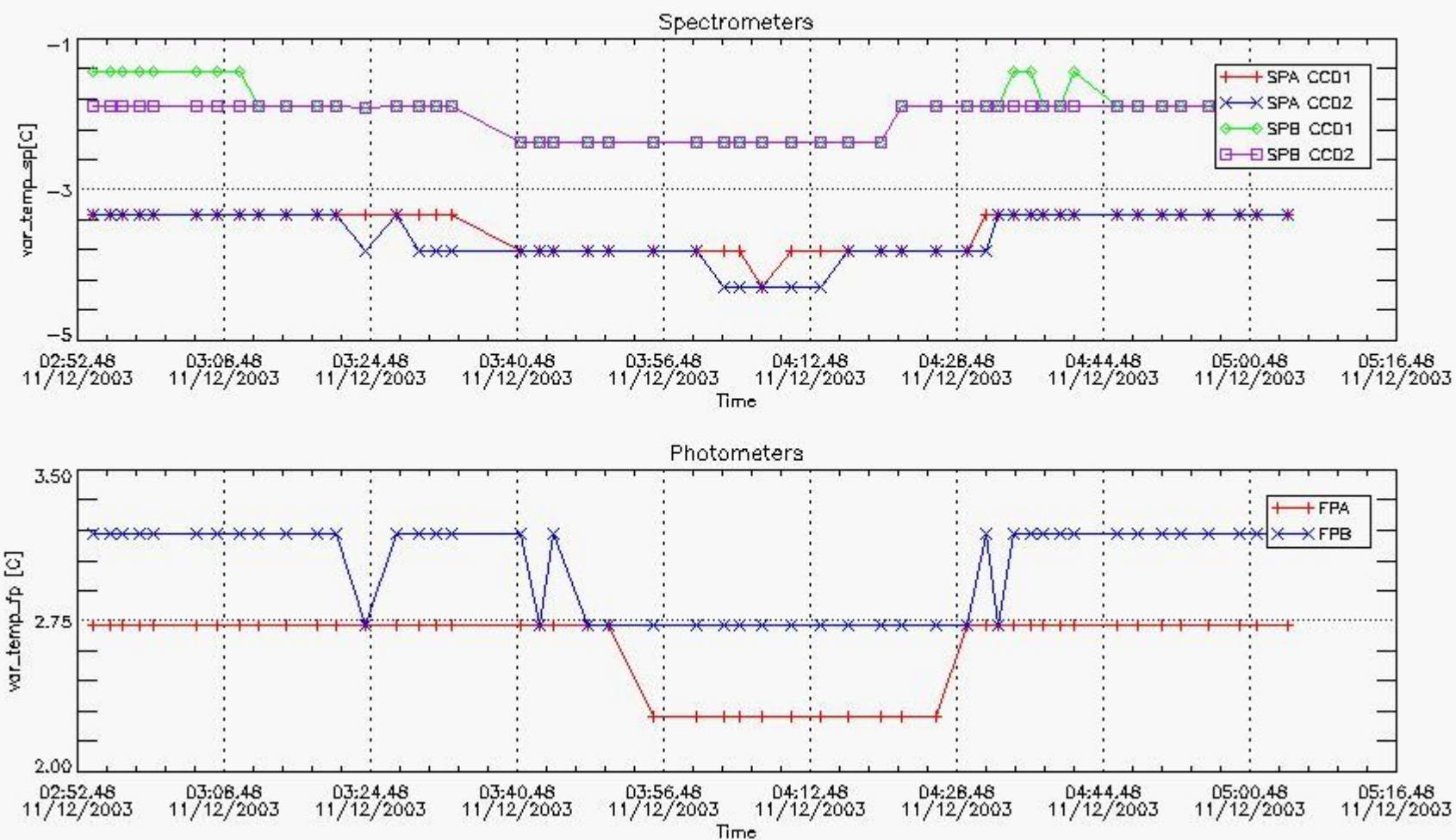
Item	Value
Time of report generation	12DEC2003 06:49:16
Data source version	<Any version>
Start time of products	11-DEC-2003 (11DEC2003 00:00:00)
Stop time of products	12-DEC-2003 (12DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

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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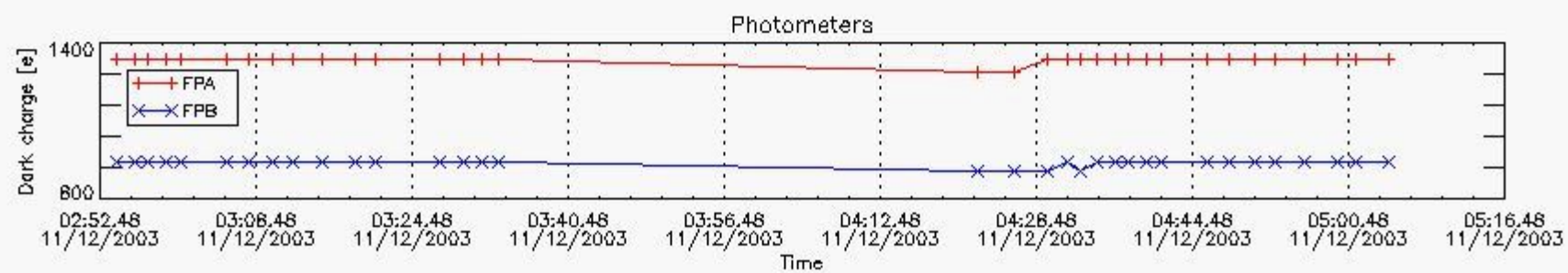
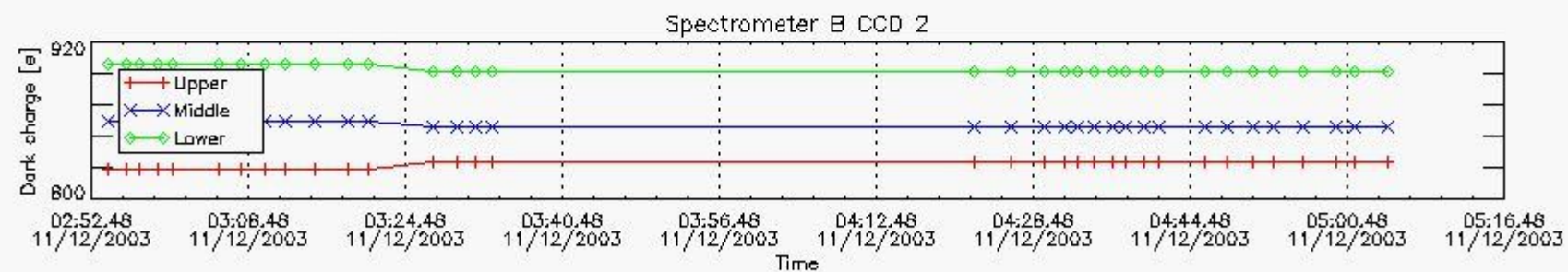
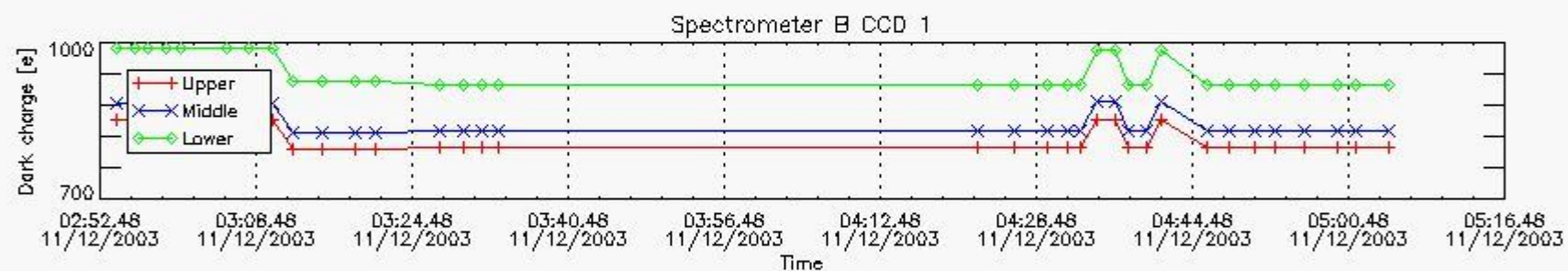
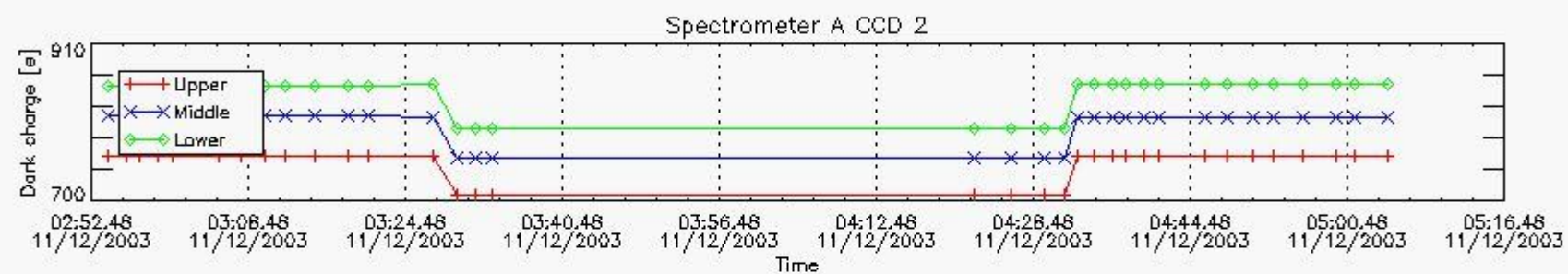
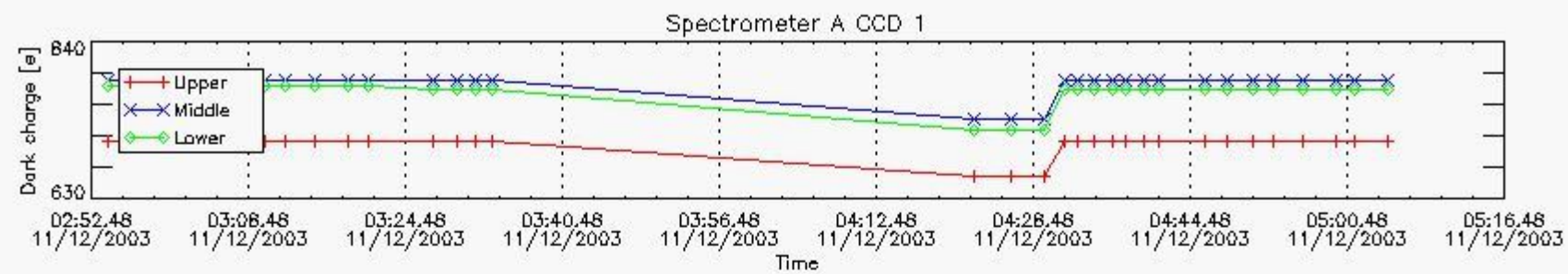
4. Overview of dark signal processing per product

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

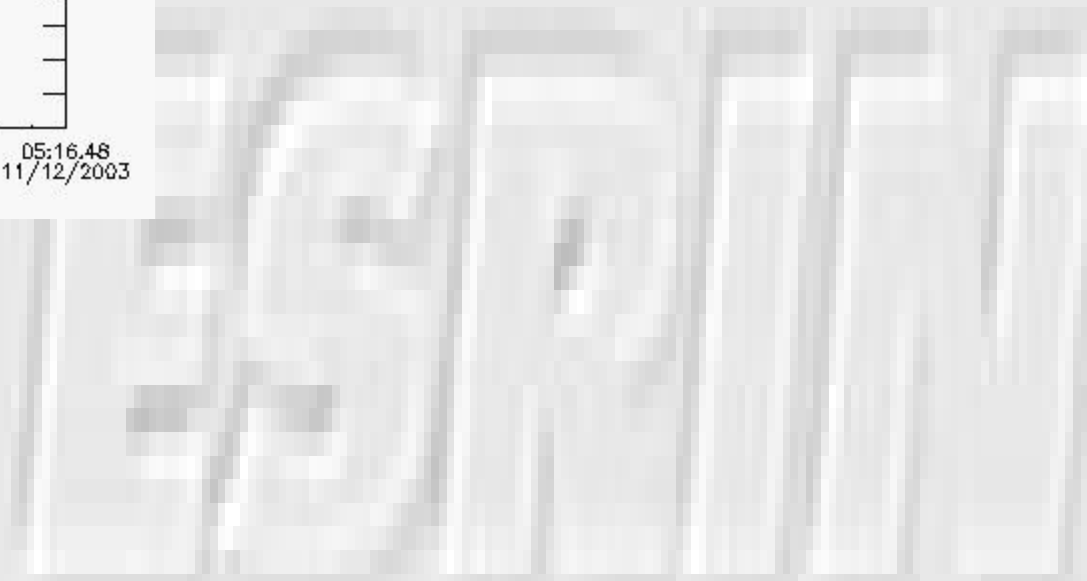
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



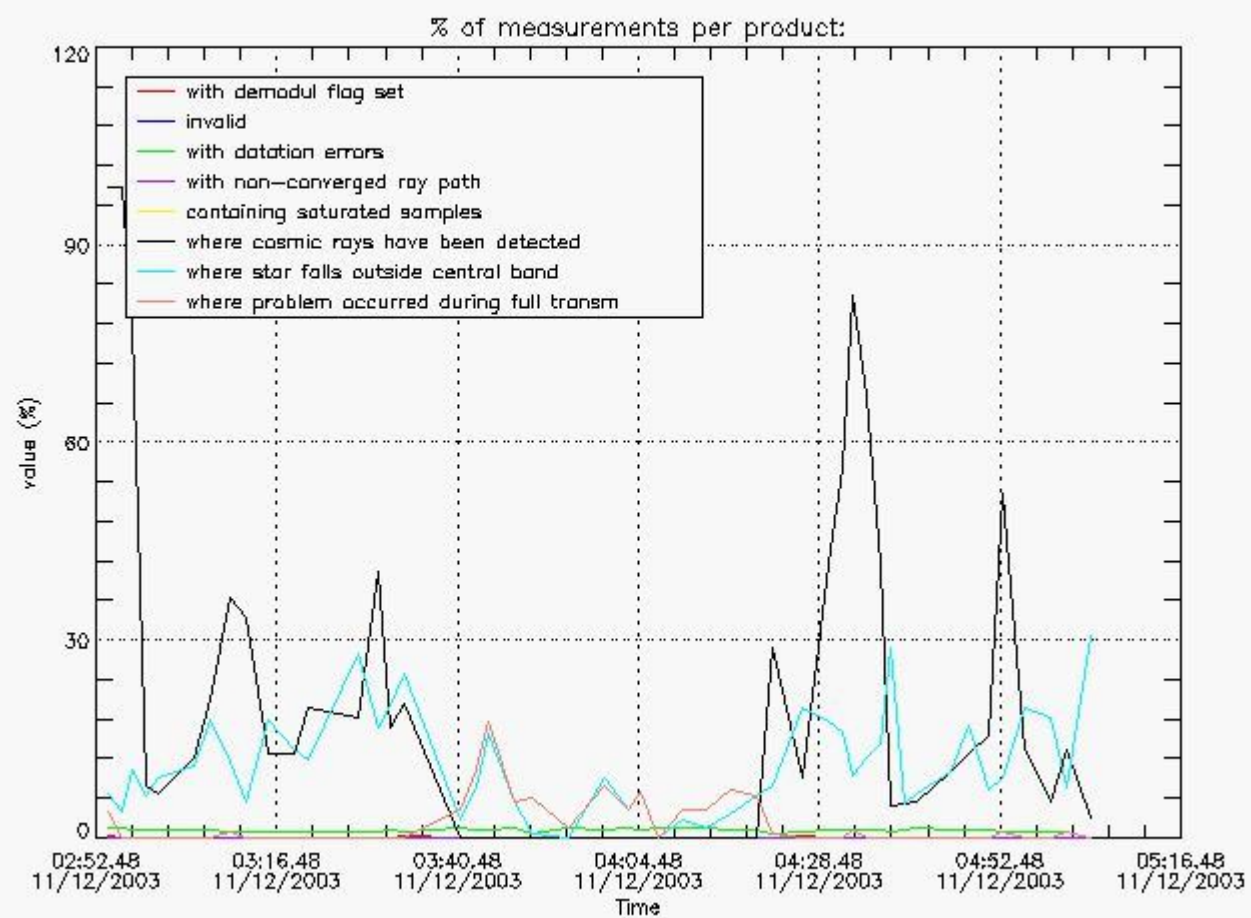
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.5833 %
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



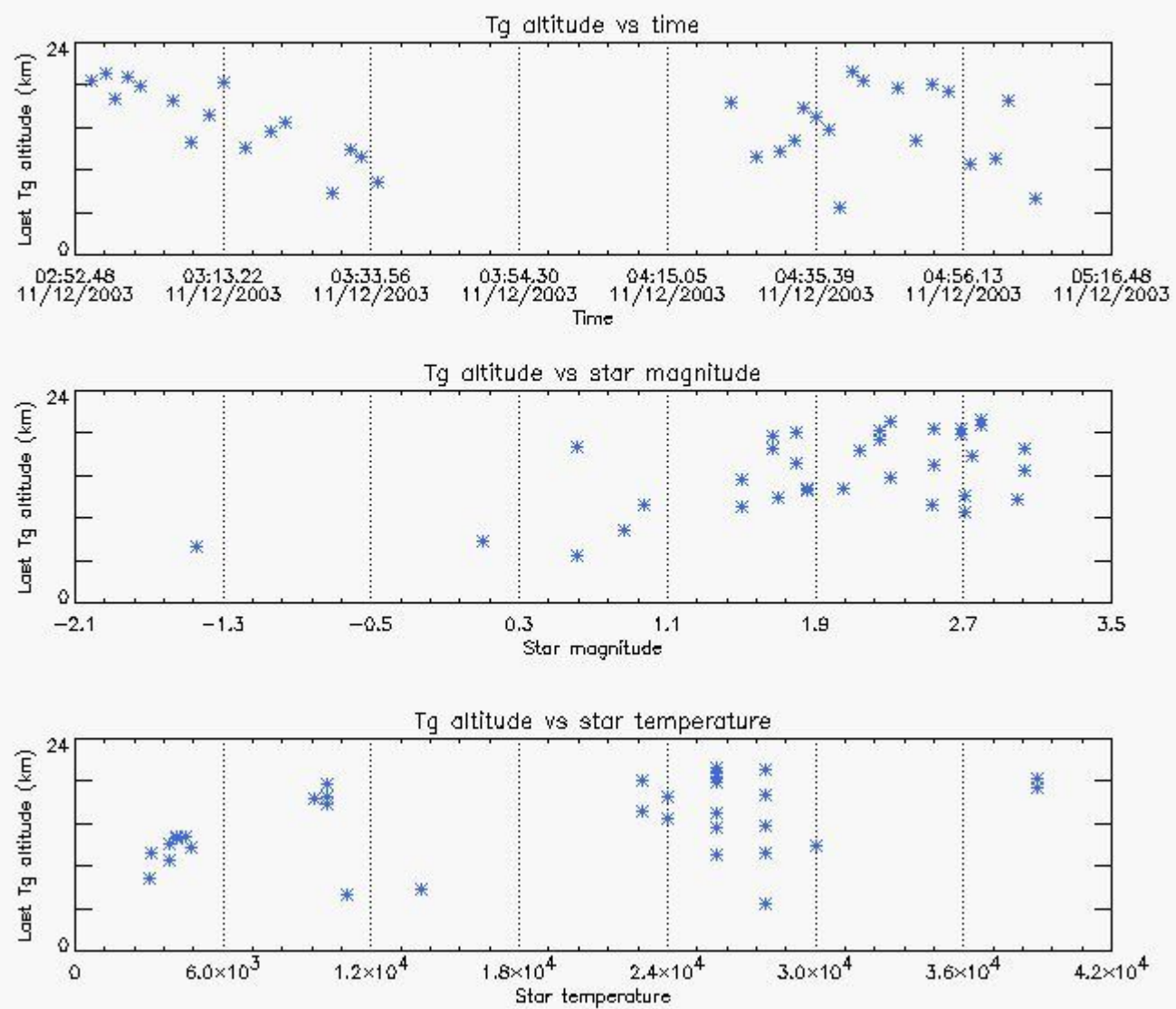
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.737	21.429
St. deviation:	4.3862	3.4161
Maximum:	20.785	27.307
Minimum:	5.3490	14.115
Number of data:	34.000	14.000

6.2 Plot for DARK limb products

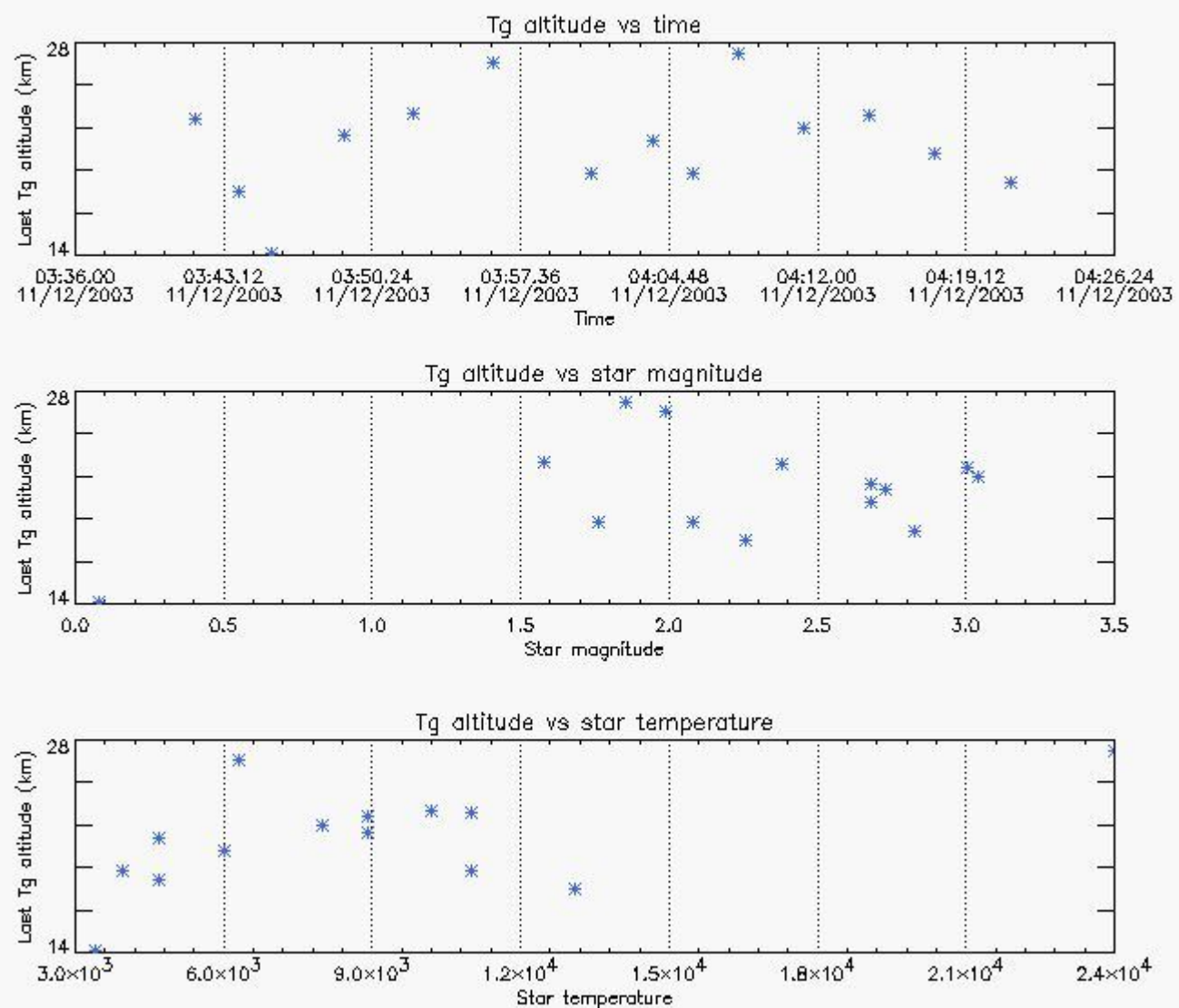
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



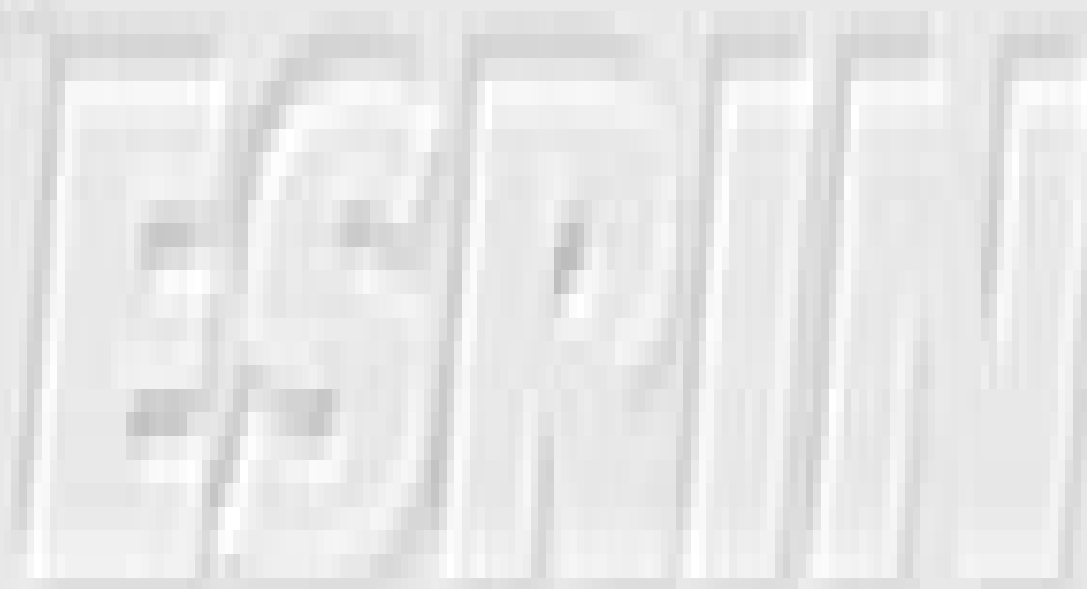
Tangent altitude at which the star is lost



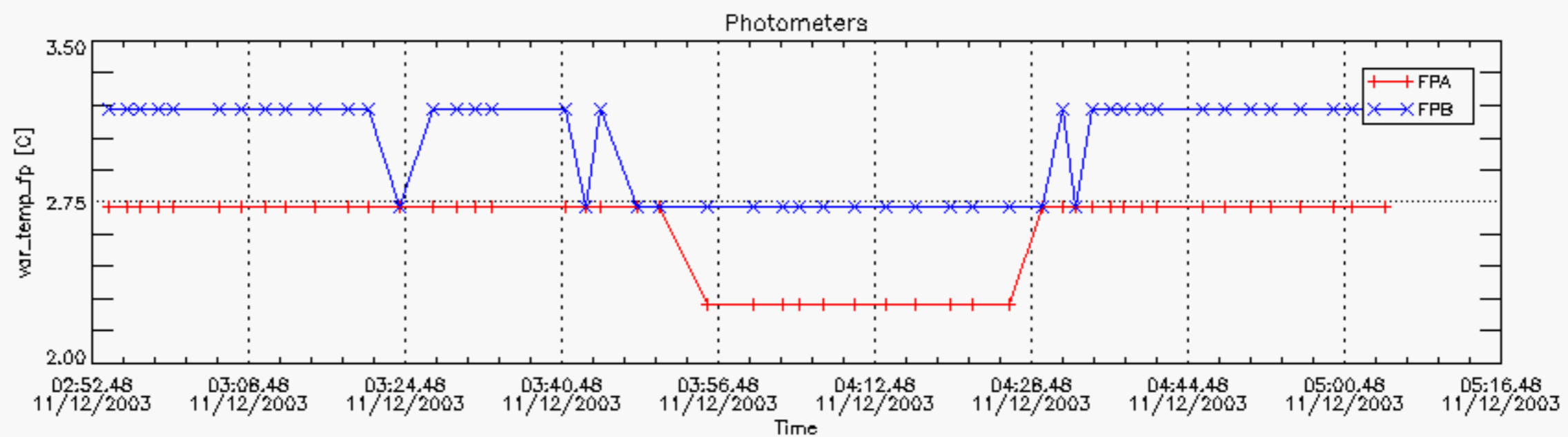
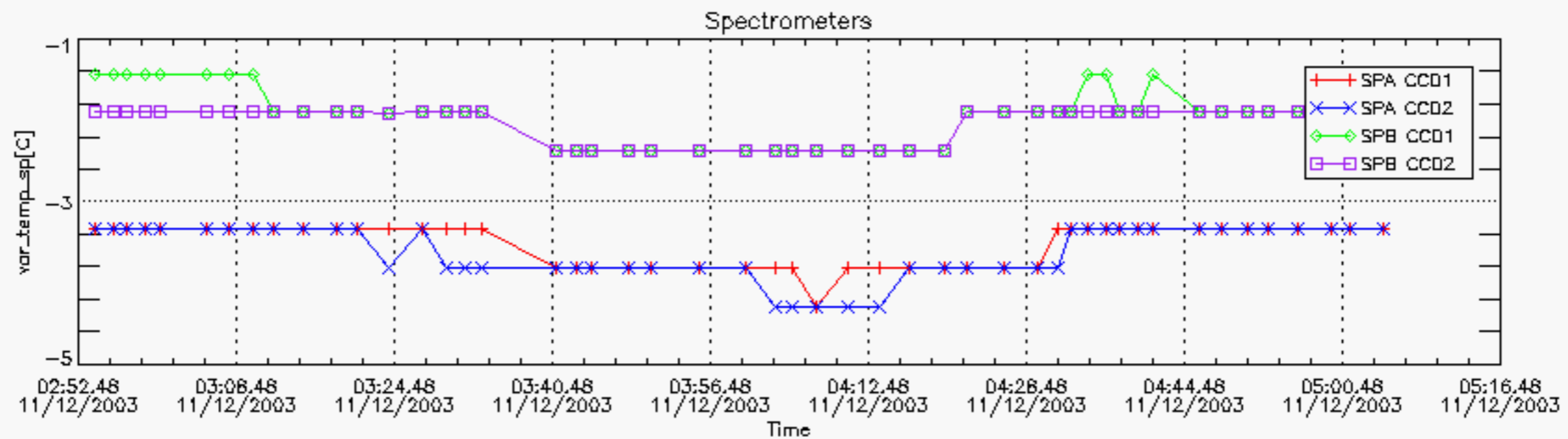
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

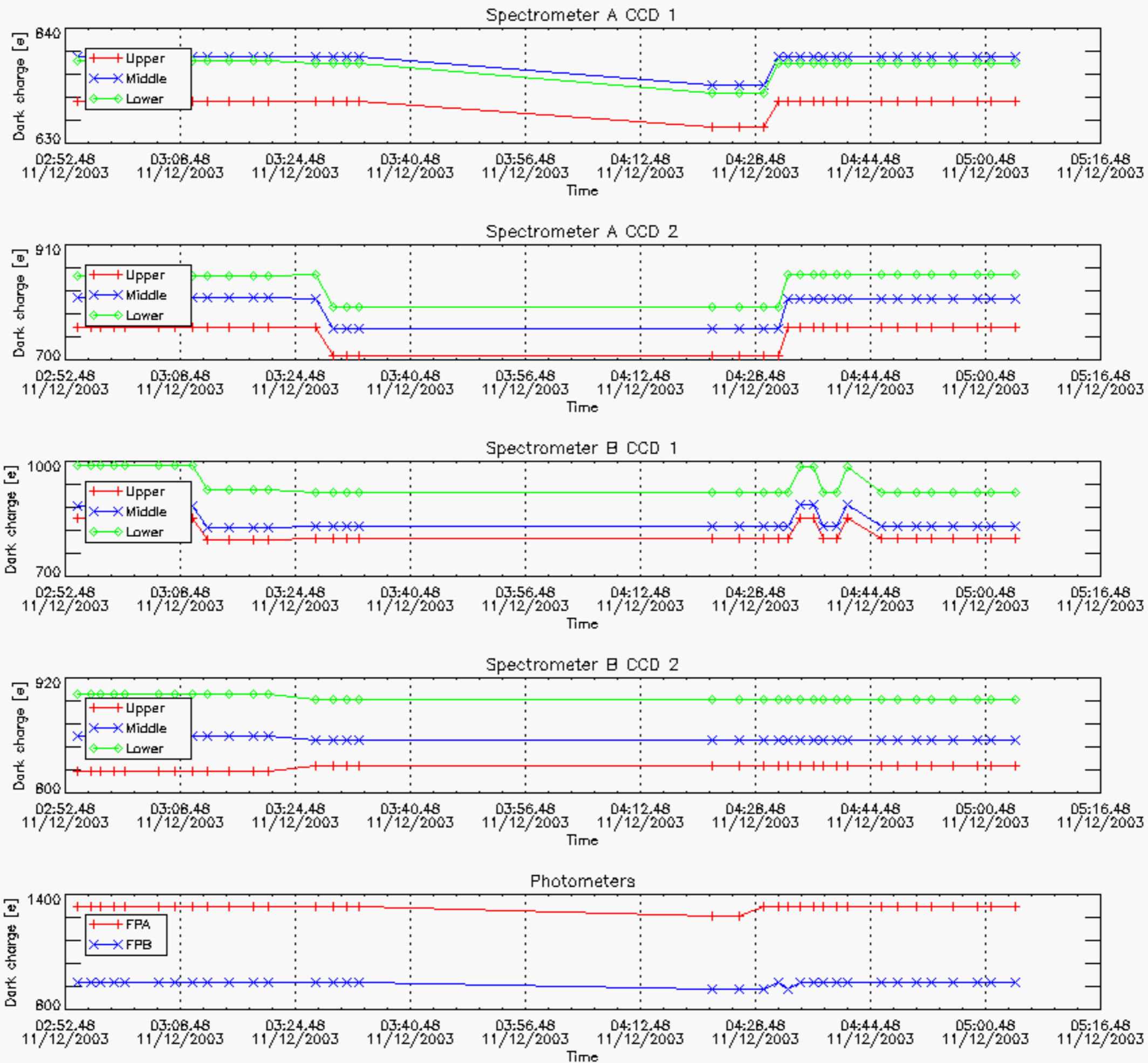
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

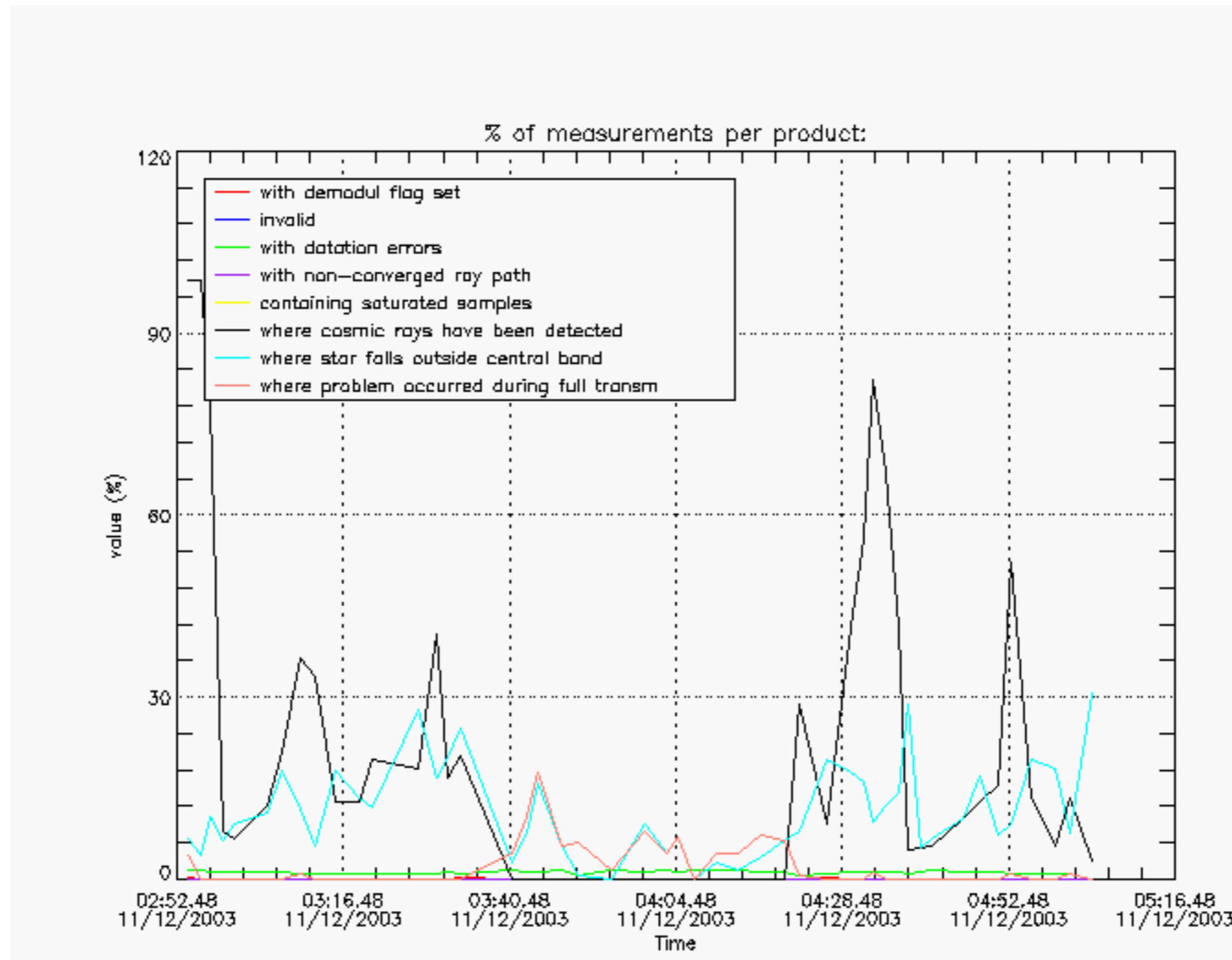
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.8	1460.6	1447.3
St. deviation:	5.8540	7.0690	7.0049	8.3647
Maximum:	1505.0	1500.0	1501.0	1502.0
Minimum:	1459.0	1439.0	1441.0	1427.0
Number of data:	41000.	41000.	15900.	15900.



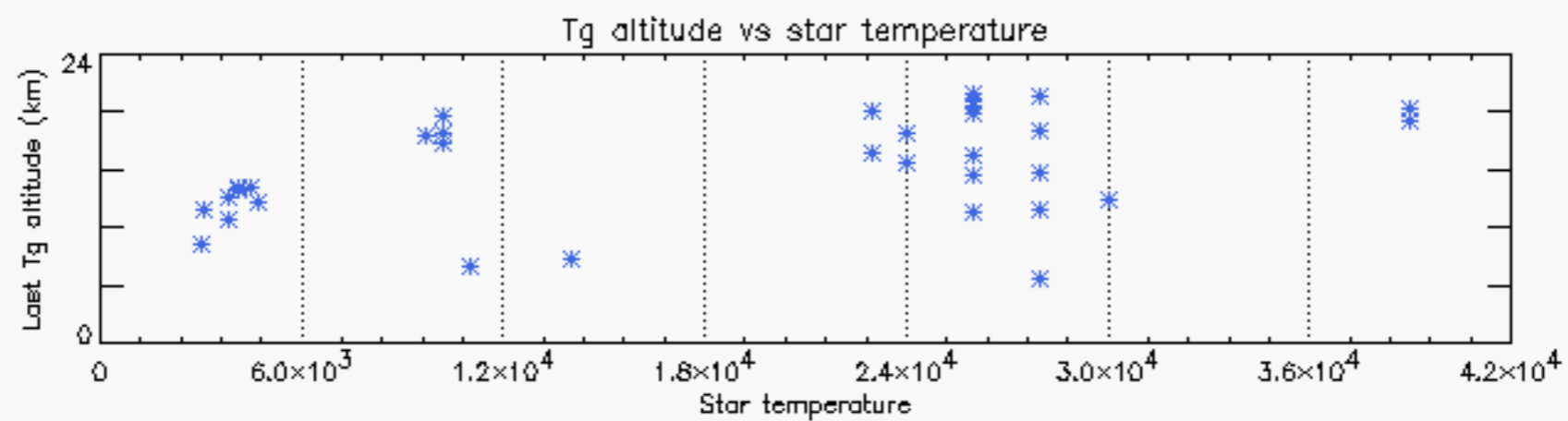
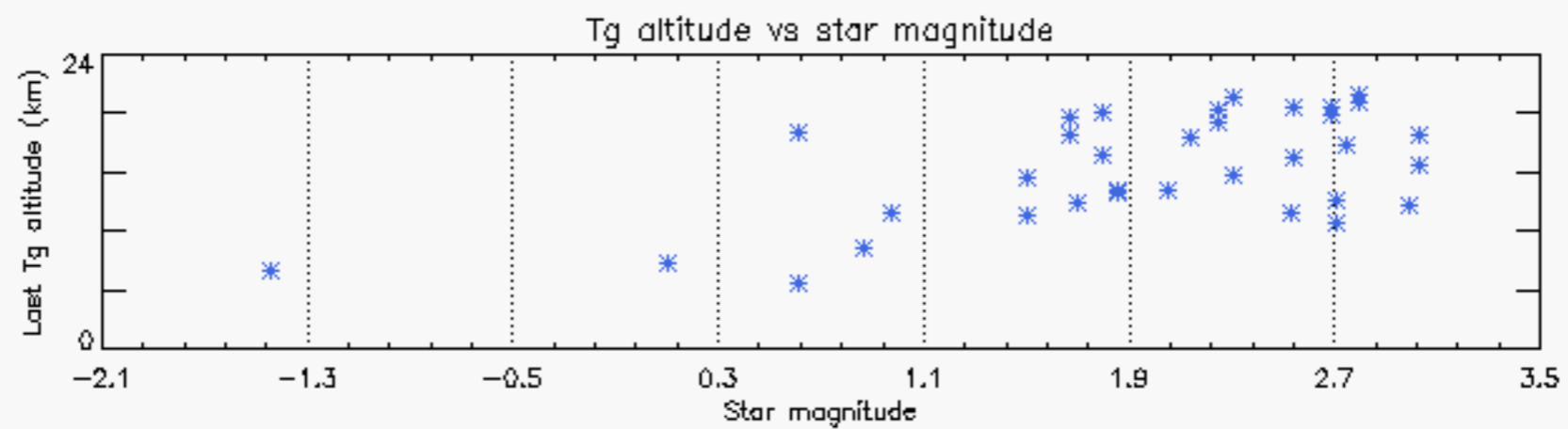
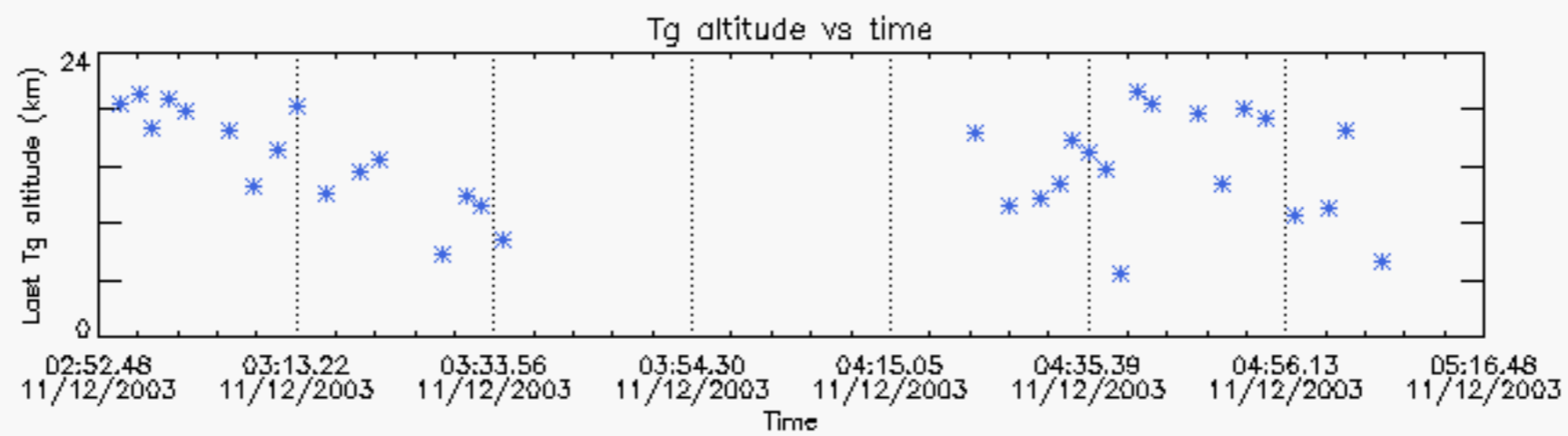




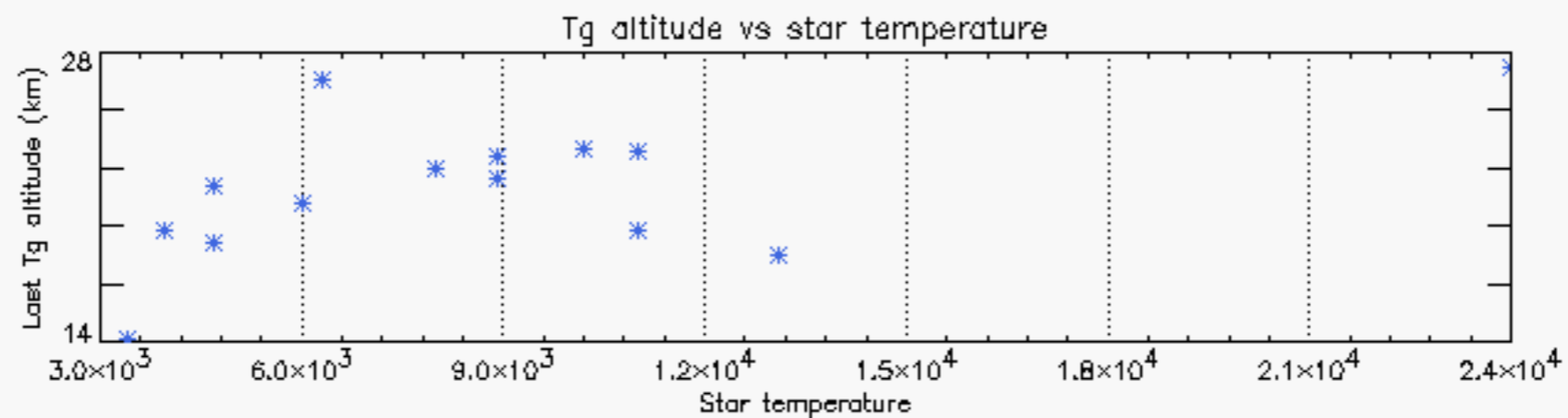
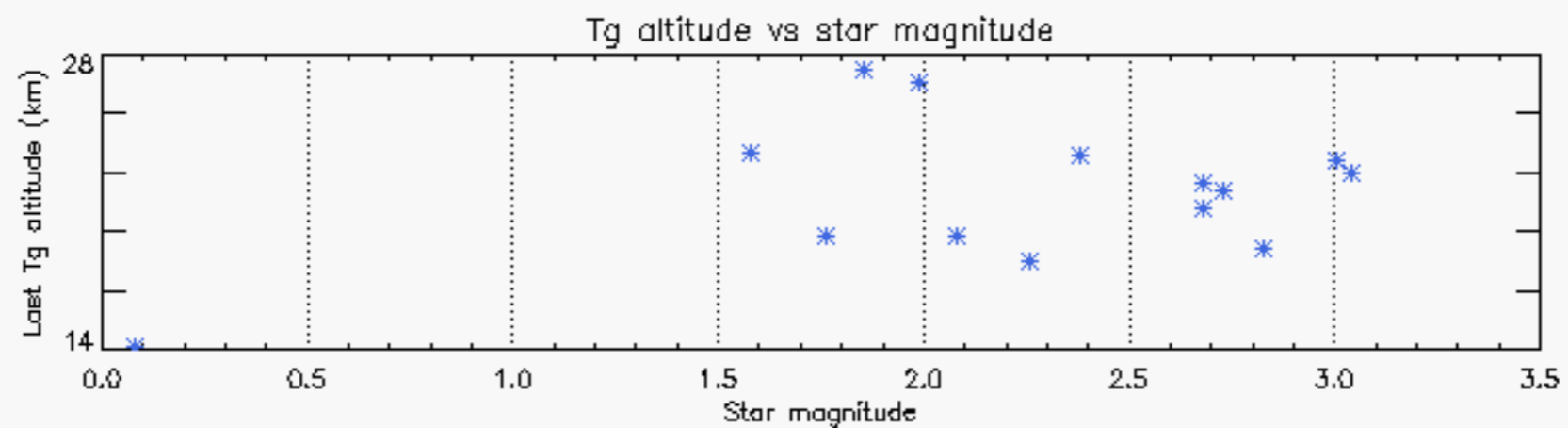
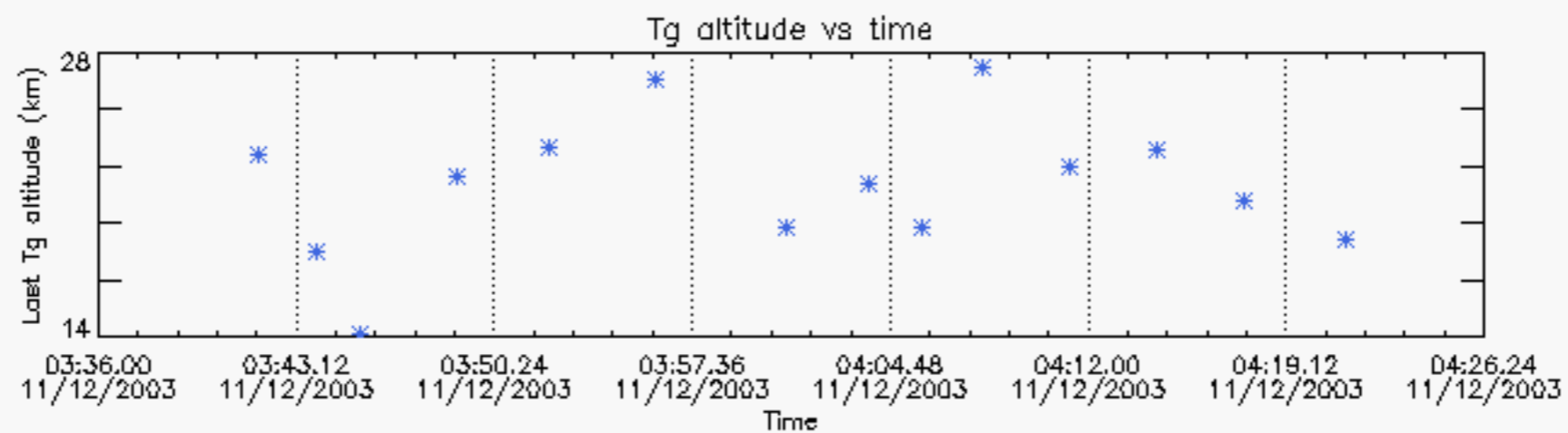




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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27; 40.3; 01-DEC-2003 08:15:26; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0; 9165
28; 202.5; 01-DEC-2003 08:18:08; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9165
29; 338.5; 01-DEC-2003 08:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9165
30; 482.5; 01-DEC-2003 08:22:48; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0; 9165
31; 602.2; 01-DEC-2003 08:24:48; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0; 9165
32; 803.4; 01-DEC-2003 08:28:09; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0; 9165
33; 915.6; 01-DEC-2003 08:30:02; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0; 9165
34; 1144.7; 01-DEC-2003 08:33:51; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0; 9165
35; 1274.4; 01-DEC-2003 08:36:00; Dark ; 73.5; 179; 240mi2CMa ; 3.03; 24000;occ; 147; 0; 9165
36; 1529.7; 01-DEC-2003 08:40:16; Dark ; 100.5; 1; 9Alp CMa ; -1.44; 11000;occ; 201; 0; 9165

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4; -3939.3; 01-DEC-2003 08:49:43; Dark ; 62.0; 27; 24Gam Ori ; 1.64; 26000;occ; 124; 0; 9165
5; -3804.6; 01-DEC-2003 08:51:57; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0; 9165
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7; -3566.9; 01-DEC-2003 08:55:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0; 9165
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11; -3079.6; 01-DEC-2003 09:04:02; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0; 9165
12; -2615.7; 01-DEC-2003 09:11:46; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0; 9165
13; -2335.5; 01-DEC-2003 09:16:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0; 9165
14; -2215.4; 01-DEC-2003 09:18:26; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0; 9165
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27; 40.6; 01-DEC-2003 09:56:02; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0; 9166
28; 203.1; 01-DEC-2003 09:58:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9166
29; 341.4; 01-DEC-2003 10:01:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9166
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33; 916.9; 01-DEC-2003 10:10:39; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0; 9166
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4; -3804.7; 01-DEC-2003 10:32:33; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0; 9166
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7; -3432.4; 01-DEC-2003 10:38:45; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0; 9166
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10; -3079.1; 01-DEC-2003 10:44:39; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0; 9166
11; -2615.4; 01-DEC-2003 10:52:22; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0; 9166
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13; -2215.6; 01-DEC-2003 10:59:02; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0; 9166
14; -2119.2; 01-DEC-2003 11:00:38; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0; 9166
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16; -1897.9; 01-DEC-2003 11:04:20; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0; 9166
17; -1723.8; 01-DEC-2003 11:07:14; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0; 9166
18; -1542.9; 01-DEC-2003 11:10:15; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0; 9166
19; -1391.6; 01-DEC-2003 11:12:46; Bright; 35.0; 3; 16Alp Boo ; -0.05; 4250;occ; 70; 0; 9166

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20; -1174.7; 01-DEC-2003 11:16:23; Bright; 75.0; 96; 68Del Leo ; 2.56; 9300;occ; 150; 0; 9166
21; -632.5; 01-DEC-2003 11:25:25; Dark ; 47.5; 163; 7Del Crv ; 2.94; 11000;occ; 95; 0; 9166
22; -534.9; 01-DEC-2003 11:27:03; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0; 9166
23; -414.9; 01-DEC-2003 11:29:03; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0; 9166
24; -173.0; 01-DEC-2003 11:33:05; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; 9166
25; -74.9; 01-DEC-2003 11:34:43; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0; 9166
26; 41.4; 01-DEC-2003 11:36:39; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0; 9167
27; 203.9; 01-DEC-2003 11:39:22; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9167
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29; 484.2; 01-DEC-2003 11:44:02; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0; 9167
30; 604.2; 01-DEC-2003 11:46:02; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0; 9167
31; 805.5; 01-DEC-2003 11:49:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0; 9167
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33; 1146.2; 01-DEC-2003 11:55:04; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0; 9167
34; 1275.4; 01-DEC-2003 11:57:13; Dark ; 75.0; 179; 240mi2CMA ; 3.03; 24000;occ; 150; 0; 9167
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3; -4103.3; 01-DEC-2003 13:48:46; Dark ; 61.5; 30; 46Eps Ori ; 1.69; 30000;occ; 123; 0; 9168
4; -3940.1; 01-DEC-2003 13:51:29; Dark ; 59.5; 27; 24Gam Ori ; 1.64; 26000;occ; 119; 0; 9168
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6; -3708.1; 01-DEC-2003 13:55:21; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0; 9168
7; -3566.3; 01-DEC-2003 13:57:43; Bright; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0; 9168
8; -3432.2; 01-DEC-2003 13:59:57; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0; 9168
9; -3299.7; 01-DEC-2003 14:02:10; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0; 9168
10; -3219.5; 01-DEC-2003 14:03:30; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0; 9168
11; -3079.0; 01-DEC-2003 14:05:50; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0; 9168
12; -2616.2; 01-DEC-2003 14:13:33; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0; 9168
13; -2336.6; 01-DEC-2003 14:18:13; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0; 9168
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17; -1898.7; 01-DEC-2003 14:25:31; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0; 9168
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33;	426.3;	10-DEC-2003	17:02:05;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	9299
34;	565.4;	10-DEC-2003	17:04:25;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	9299
35;	716.1;	10-DEC-2003	17:06:55;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;occ;	92;	0;	9299
36;	871.3;	10-DEC-2003	17:09:30;	Dark	;	54.5;	2;	Alp Car	;	-0.74;	7000;occ;	109;	0;	9299
37;	1019.0;	10-DEC-2003	17:11:58;	Dark	;	54.0;	117;	Pi Pup	;	2.71;	3800;occ;	108;	0;	9299