

GOMOS Daily Report 07-FEB-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.

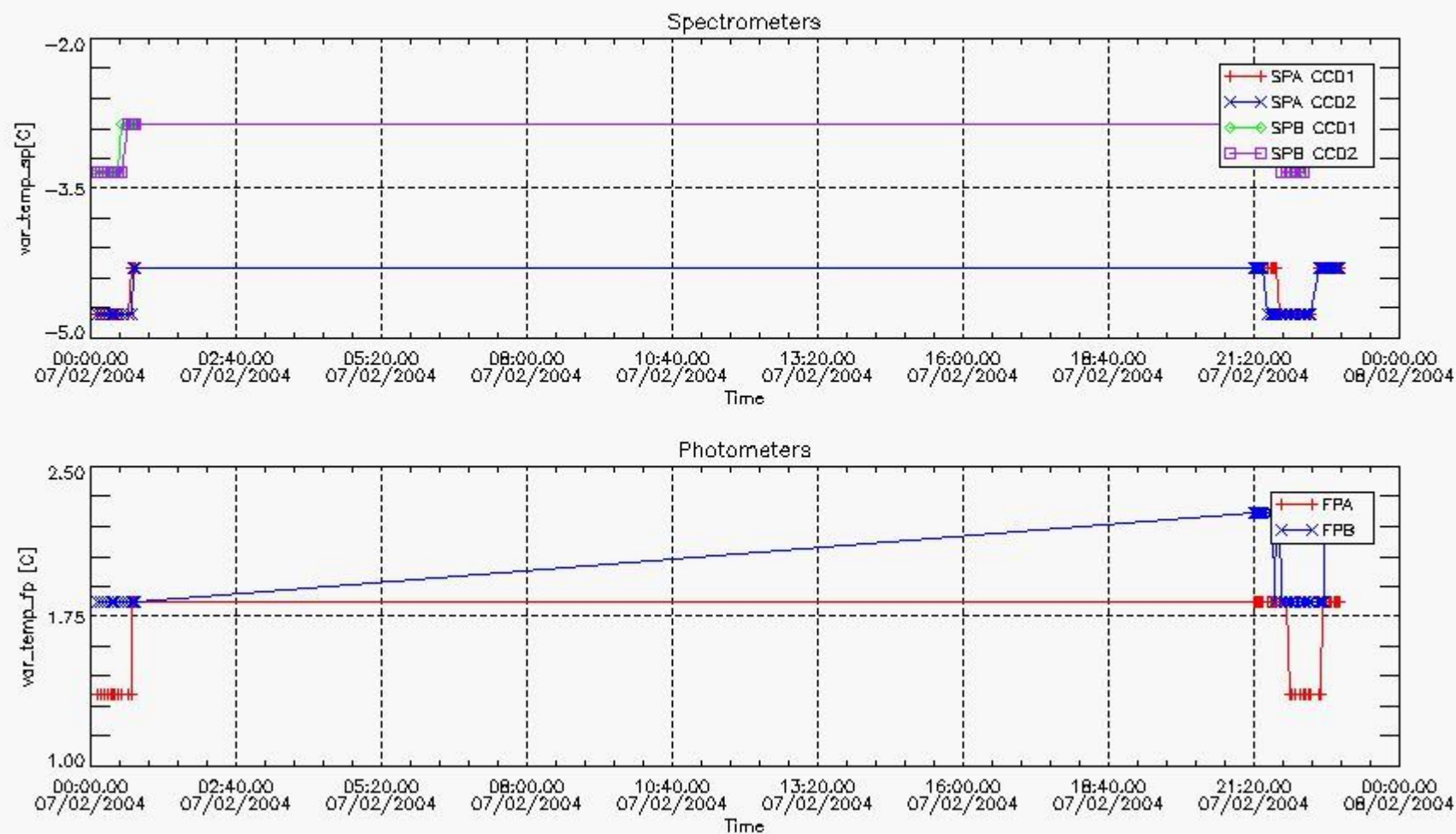
| Item | Value |
|---------------------------|----------------------------------|
| Time of report generation | 09FEB2004 09:34:28 |
| Data source version | <Any version> |
| Start time of products | 07-FEB-2004 (07FEB2004 00:00:00) |
| Stop time of products | 08-FEB-2004 (08FEB2004 00:00:00) |
| Store 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 |
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|



4. Overview of dark signal processing per product

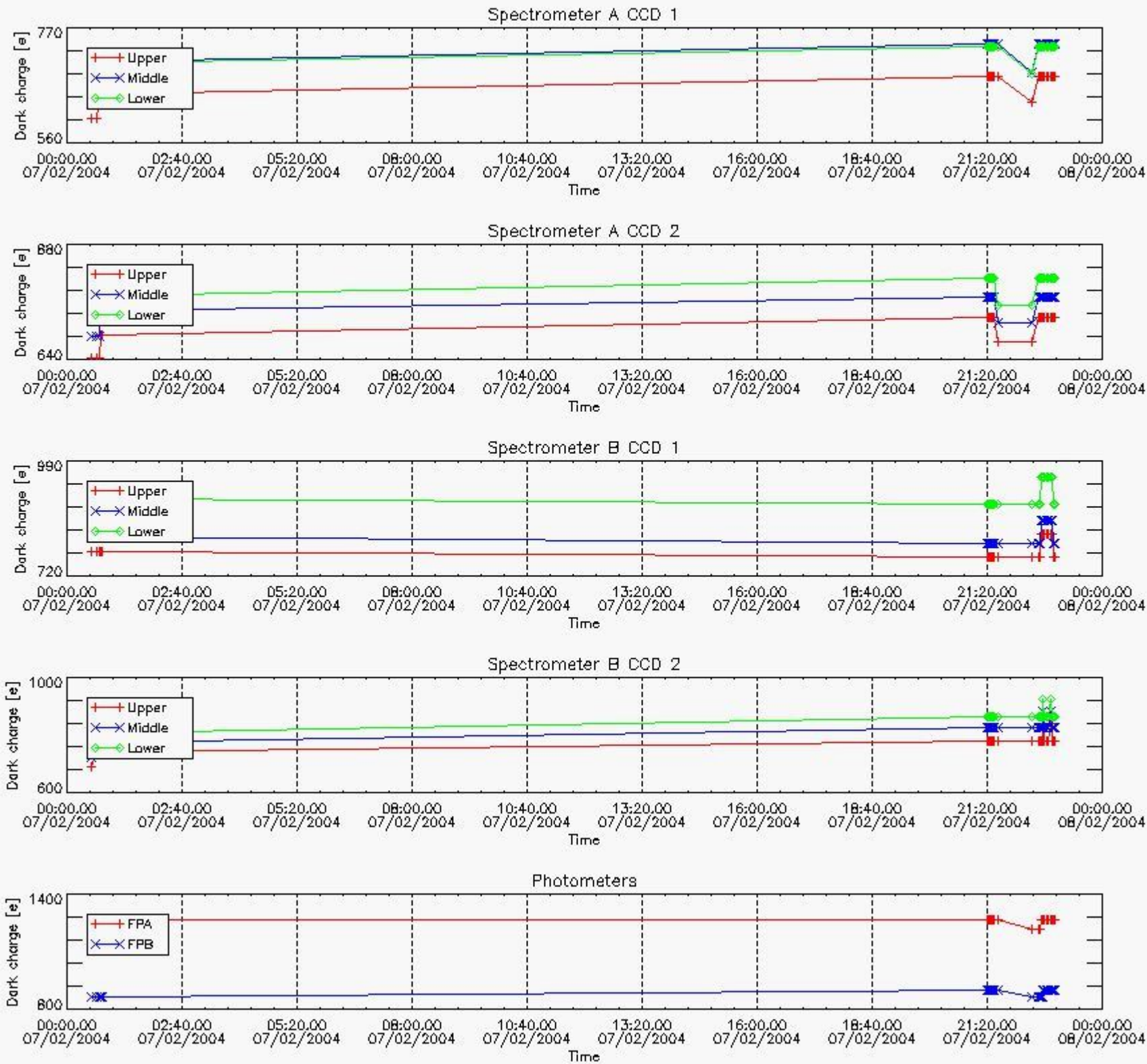
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

| Product name | DC information |
|--|-----------------|
| GOM_TRA_1PNPDE20040207_000730_000000472024_00059_10133_0011.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_001129_000000342024_00059_10133_0012.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_001412_000000382024_00059_10133_0013.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_001756_000000382024_00059_10133_0014.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_002223_000000412024_00059_10133_0015.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_002352_000000382024_00059_10133_0016.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_002615_000000382024_00059_10133_0017.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_002917_000000472024_00059_10133_0018.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_003428_000001622024_00059_10133_0019.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_004132_000000822024_00059_10133_0020.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_004415_000000442024_00059_10133_0021.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_004533_000000442024_00059_10133_0022.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_004643_000000442024_00059_10133_0023.N1 | DC map used (0) |
| GOM_TRA_1PNPDE20040207_004812_000000632024_00059_10133_0024.N1 | DC map used (0) |

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



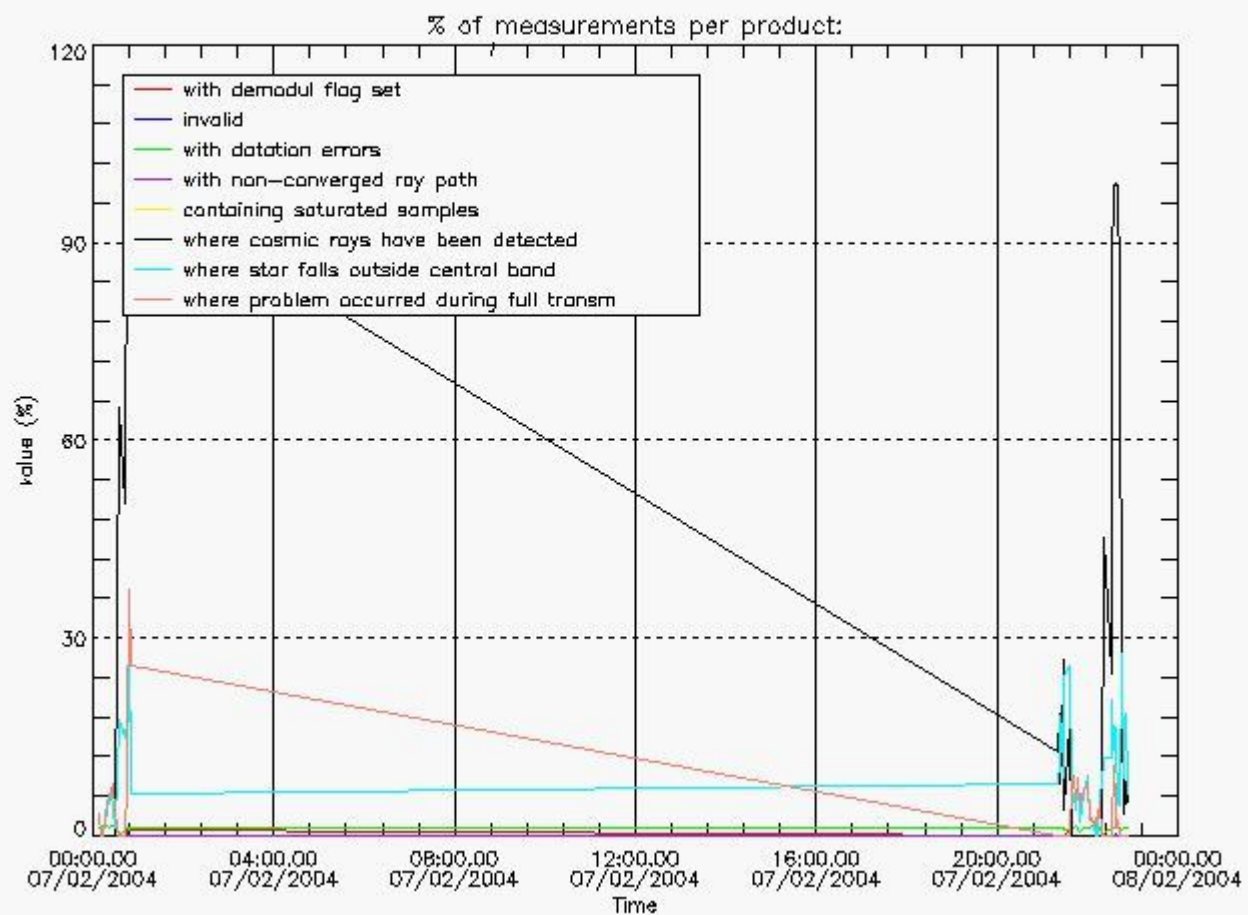
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

| | |
|--|-----------|
| At least one measurement with demodulation flag set: | 28.0000 % |
| 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



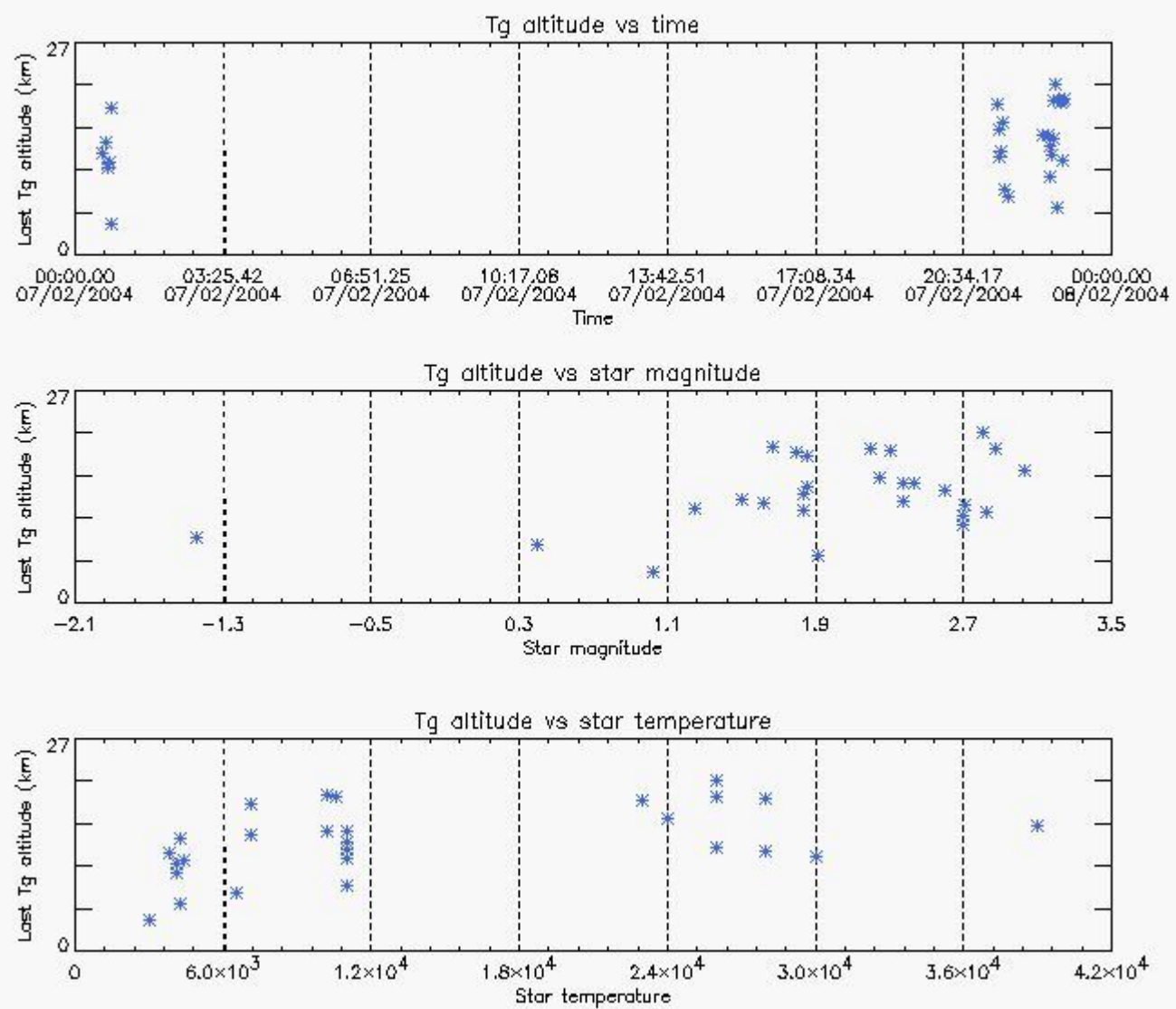
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT |
|-----------------|--------|--------|
| Mean: | 13.983 | 21.842 |
| St. deviation: | 4.5512 | 2.9742 |
| Maximum: | 21.718 | 29.212 |
| Minimum: | 3.8277 | 17.446 |
| Number of data: | 27.000 | 23.000 |

6.2 Plot for DARK limb products

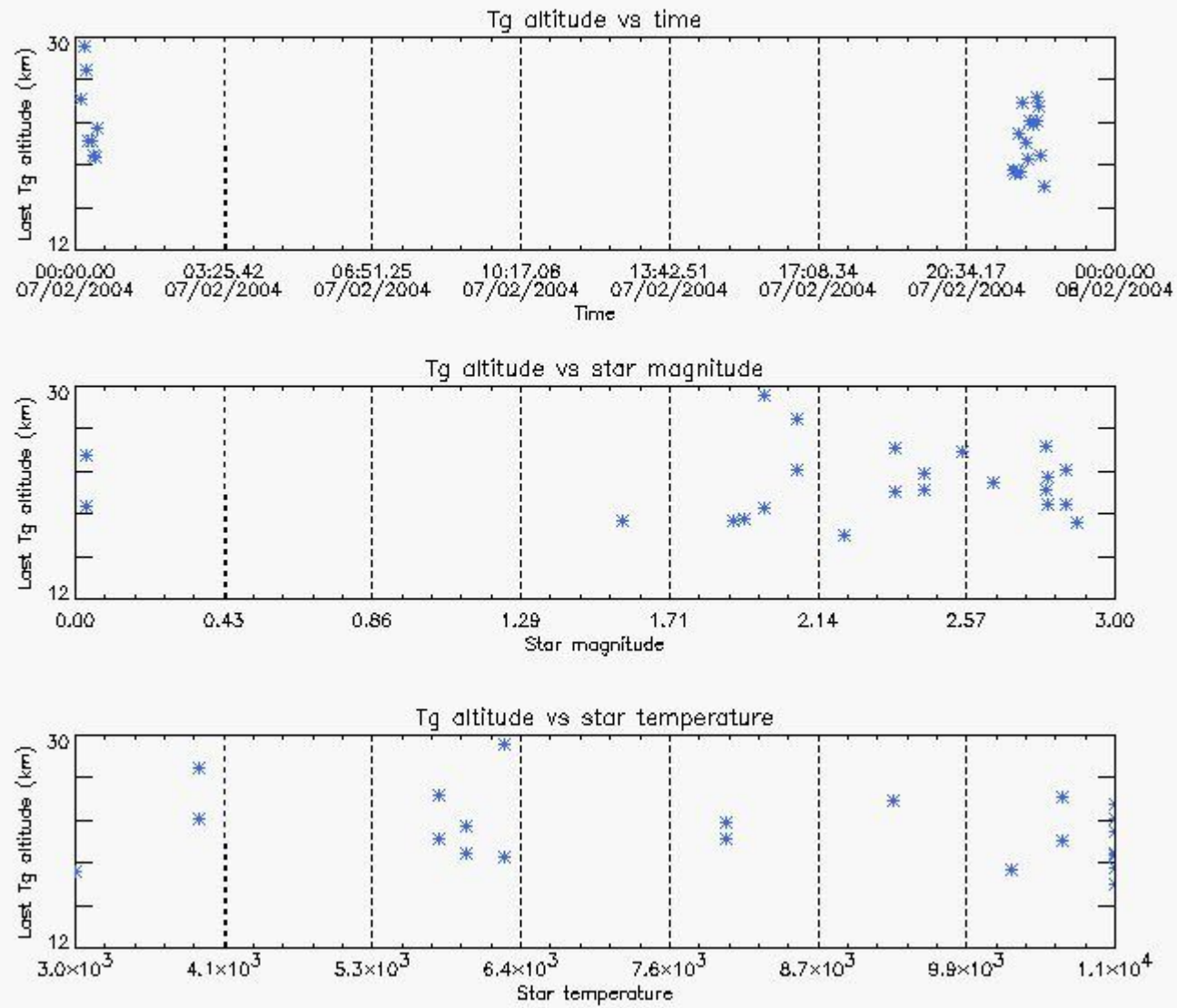
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



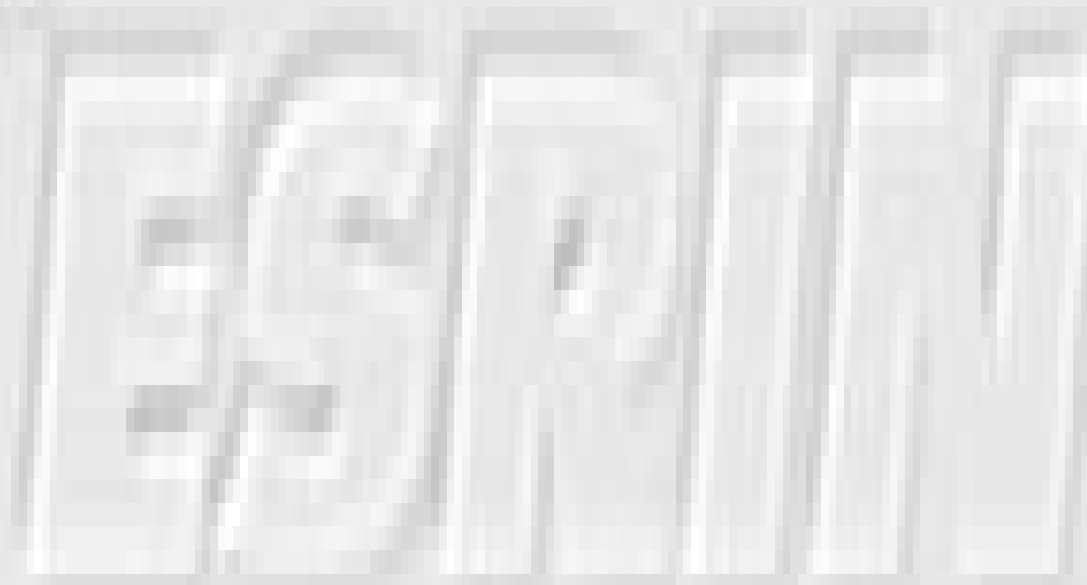
Tangent altitude at which the star is lost



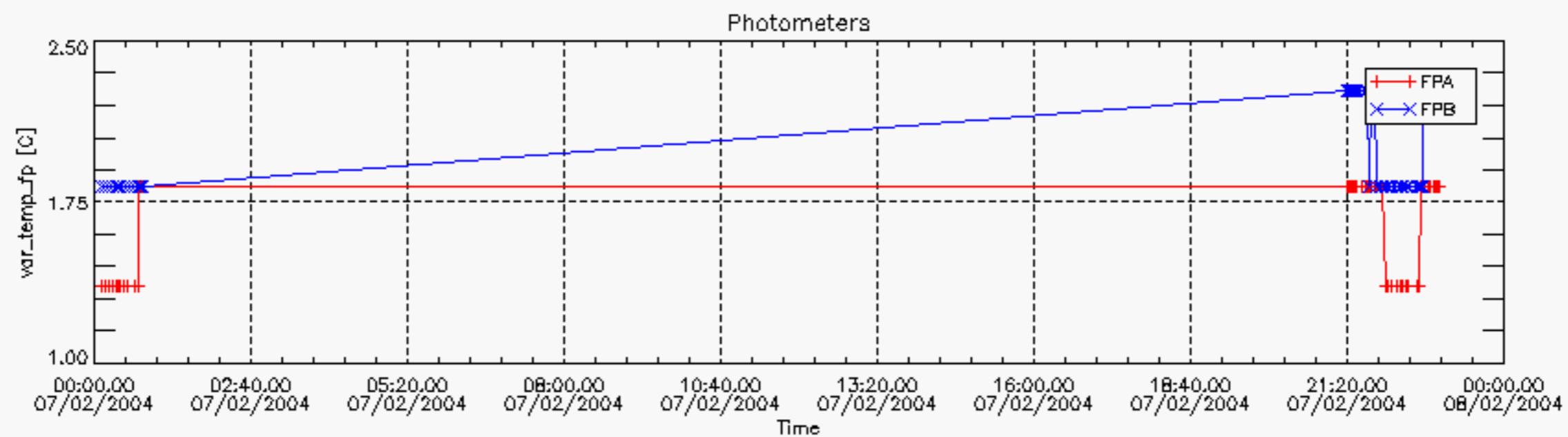
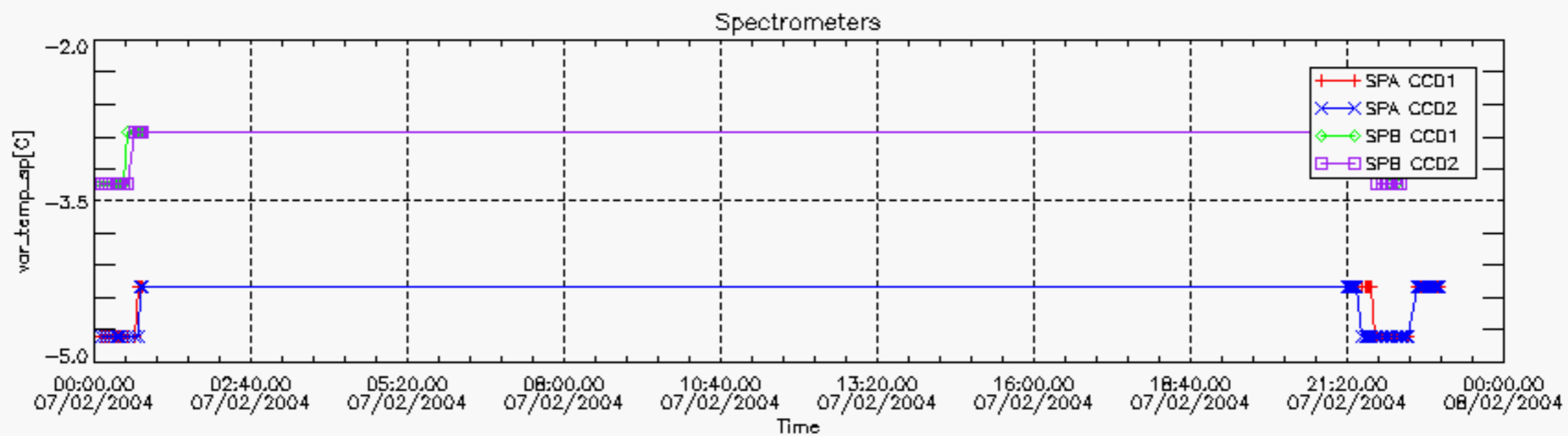
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

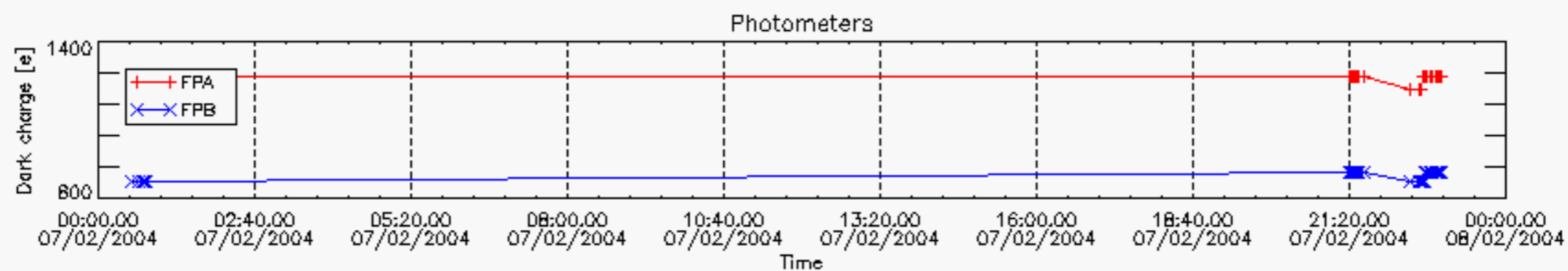
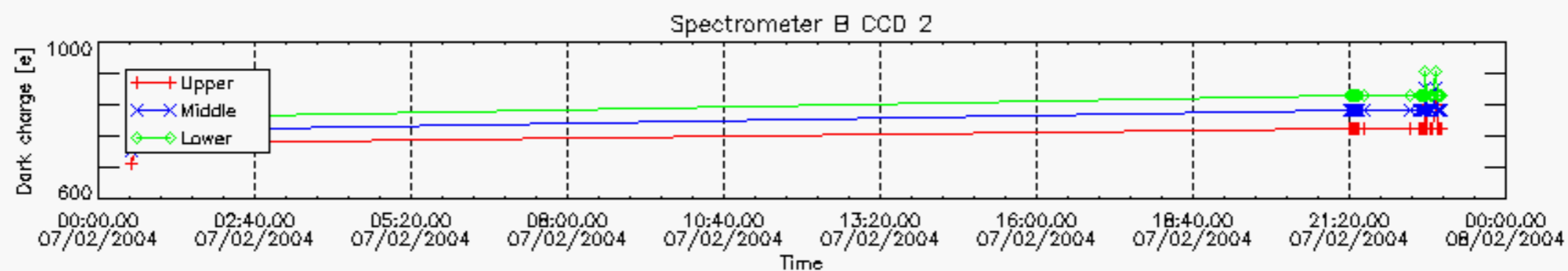
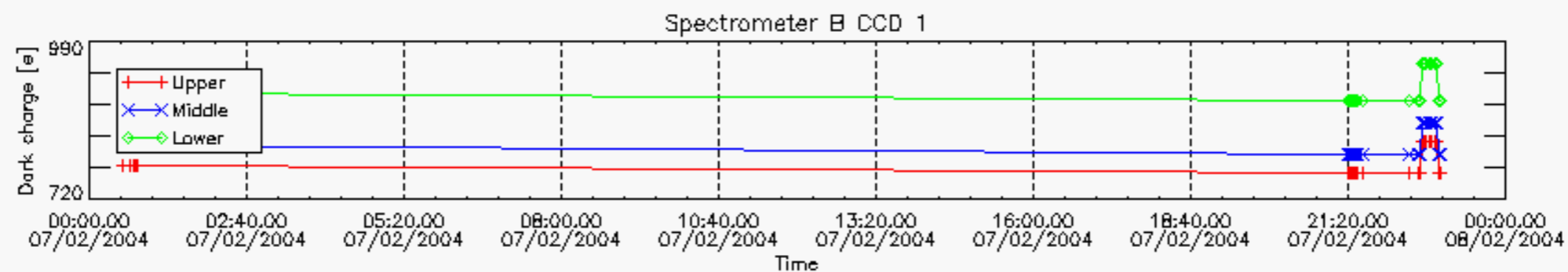
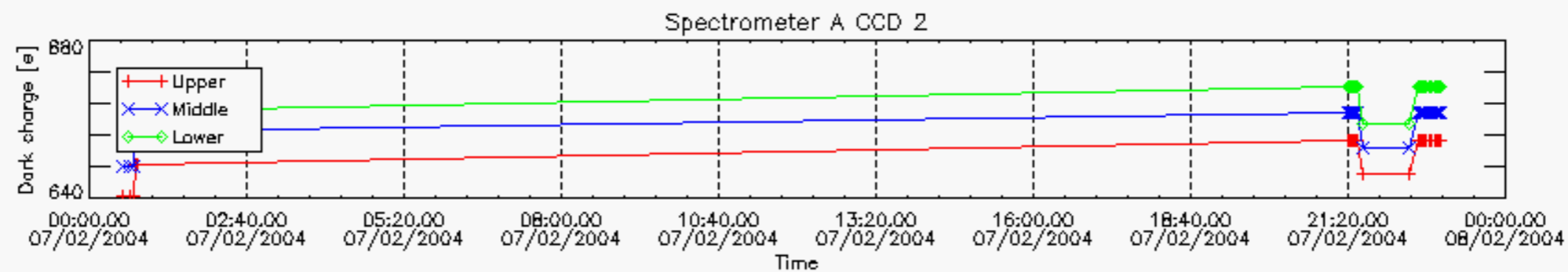
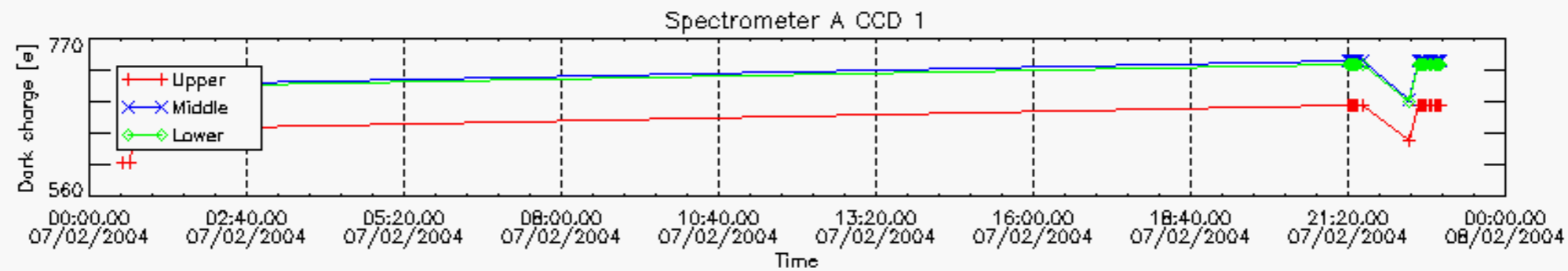
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

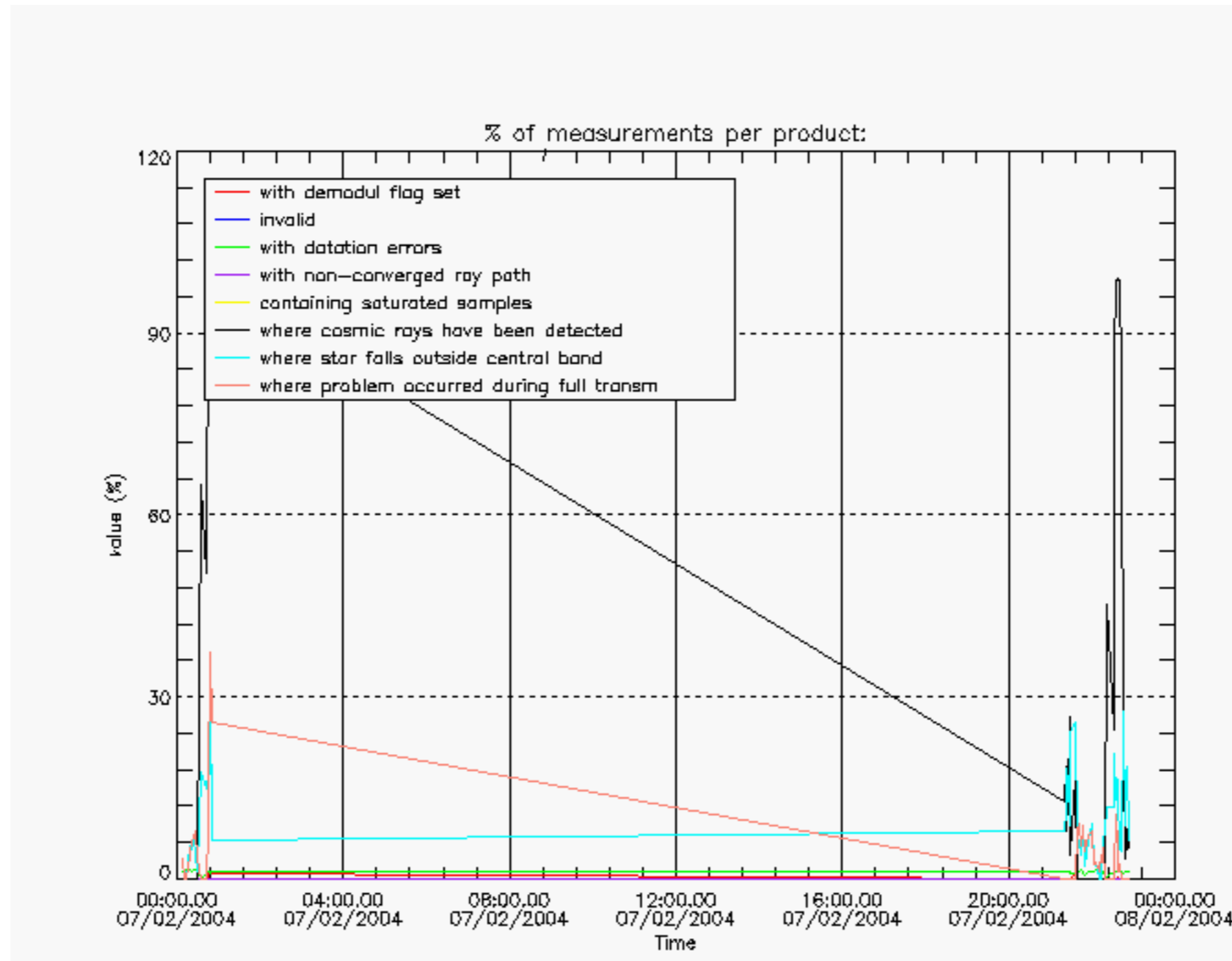
| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean: | 1460.8 | 1447.1 | 1460.6 | 1447.9 |
| St. deviation: | 5.0878 | 7.6990 | 7.4446 | 9.7137 |
| Maximum: | 1510.0 | 1497.0 | 1518.0 | 1513.0 |
| Minimum: | 1446.0 | 1429.0 | 1442.0 | 1416.0 |
| Number of data: | 35100. | 35100. | 28100. | 28100. |



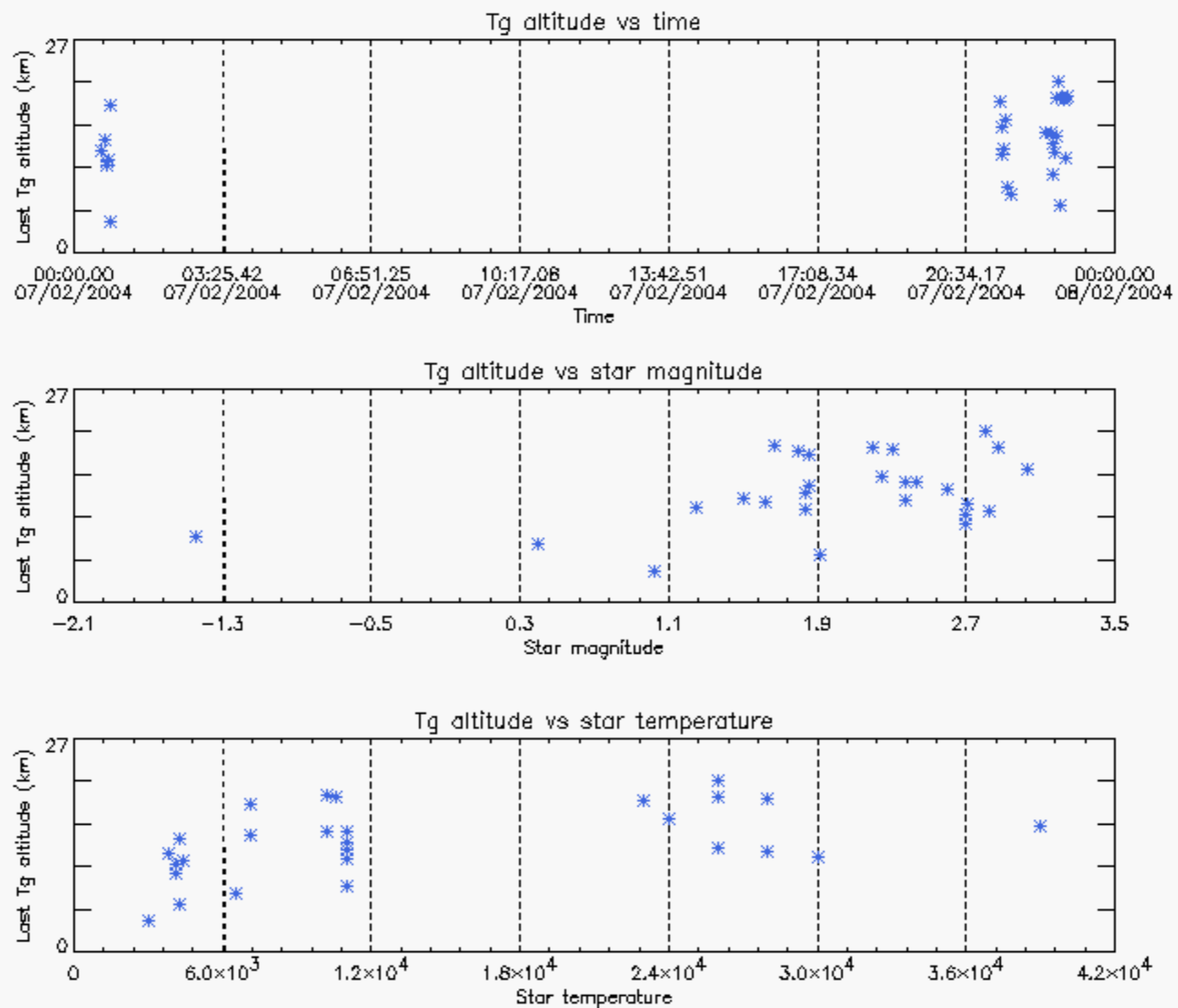




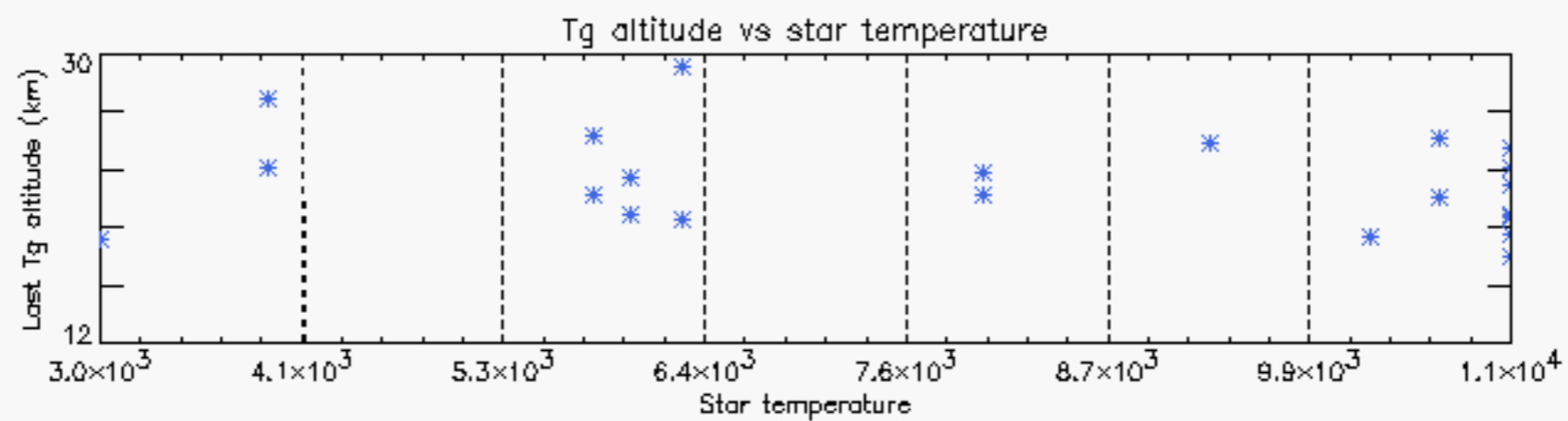
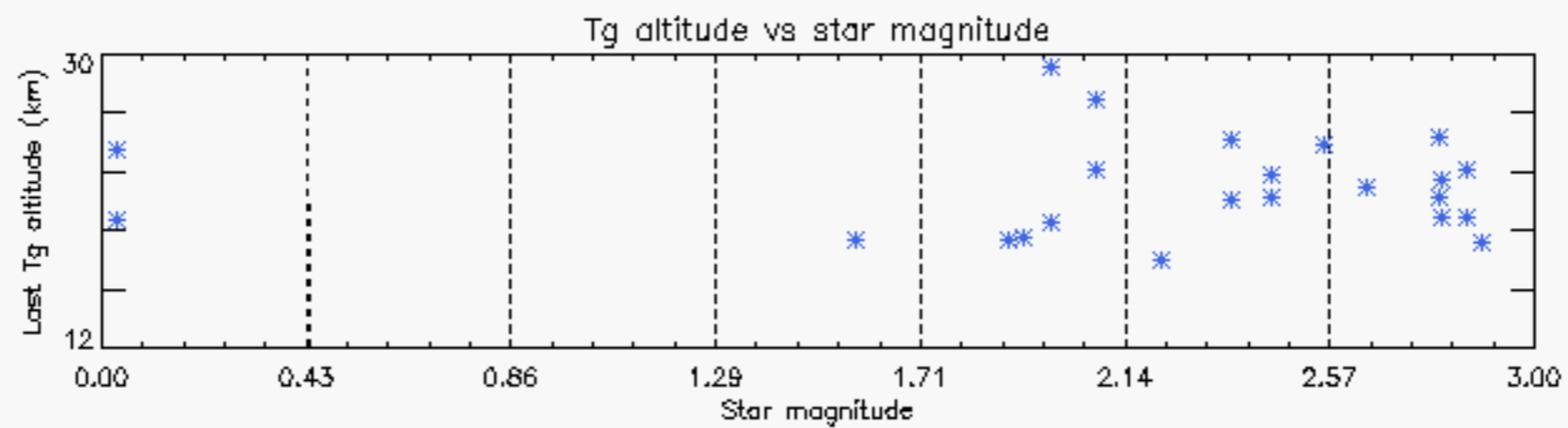
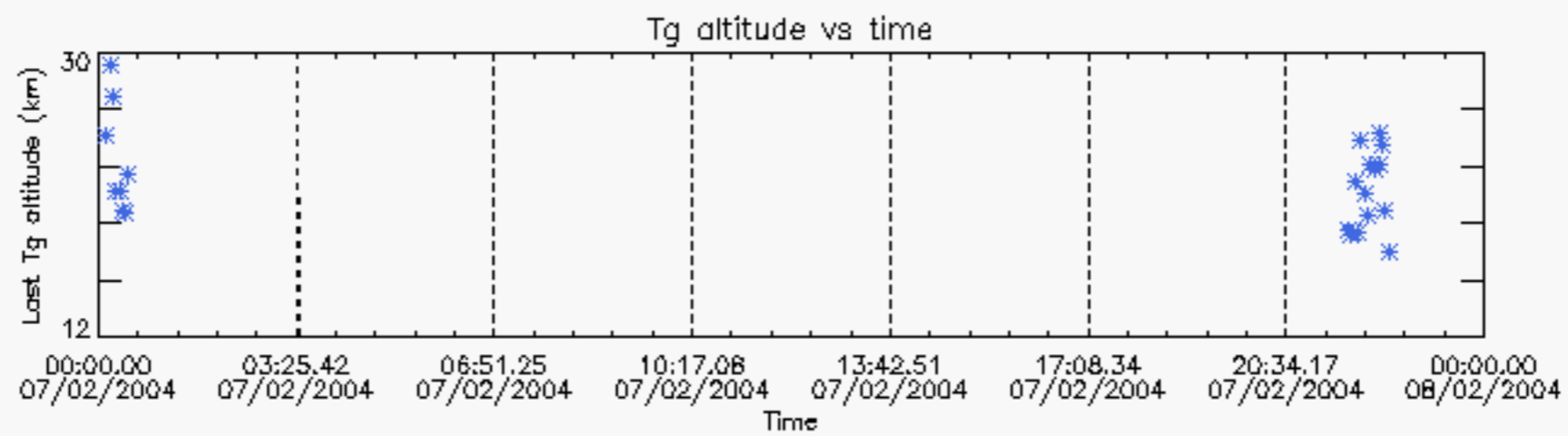




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 2;-4292.9; 01-FEB-2004 06:14:18; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;10051
 3;-4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051
 4;-3950.7; 01-FEB-2004 06:20:00; Bright; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;10051
 5;-3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051
 6;-3728.1; 01-FEB-2004 06:23:43; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;10051
 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
 12;-2423.0; 01-FEB-2004 06:45:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10051
 13;-2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051
 14;-2140.4; 01-FEB-2004 06:50:11; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10051
 15;-1950.4; 01-FEB-2004 06:53:20; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;10051
 16;-1732.9; 01-FEB-2004 06:56:58; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;10051
 17;-1550.9; 01-FEB-2004 07:00:00; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10051
 18;-1305.5; 01-FEB-2004 07:04:05; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10051
 19;-1113.1; 01-FEB-2004 07:07:18; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;10051
 20; -902.4; 01-FEB-2004 07:10:48; Dark ; 70.0; 102; 24Alp Ser ; 2.60; 4250;occ; 140; 0;10051
 21; -724.8; 01-FEB-2004 07:13:46; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;10051
 22; -561.2; 01-FEB-2004 07:16:30; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;10051
 23; -466.6; 01-FEB-2004 07:18:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;10051
 24; -332.2; 01-FEB-2004 07:20:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10051
 25; -219.4; 01-FEB-2004 07:22:11; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10051
 26; -119.6; 01-FEB-2004 07:23:51; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;10051
 27; 192.5; 01-FEB-2004 07:29:03; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10052
 28; 272.8; 01-FEB-2004 07:30:24; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10052
 29; 468.2; 01-FEB-2004 07:33:39; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;10052
 30; 588.9; 01-FEB-2004 07:35:40; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;10052
 31; 707.2; 01-FEB-2004 07:37:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;10052
 32; 822.0; 01-FEB-2004 07:39:33; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;10052
 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
 35; 1203.5; 01-FEB-2004 07:45:54; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;10052
 36; 1286.4; 01-FEB-2004 07:47:17; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10052
 37; 1432.5; 01-FEB-2004 07:49:43; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;10052
 38; 1515.4; 01-FEB-2004 07:51:06; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;10052
 39; 1644.3; 01-FEB-2004 07:53:15; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;10052
 40; 1743.3; 01-FEB-2004 07:54:54; Dark ; 65.0; 48; 30Alp Hya ; 1.98; 4100;occ; 130; 0;10052

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 3;-3950.6; 01-FEB-2004 08:00:36; Bright; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;10052
 4;-3837.8; 01-FEB-2004 08:02:29; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;10052
 5;-3727.7; 01-FEB-2004 08:04:19; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;10052
 6;-3642.5; 01-FEB-2004 08:05:44; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;10052
 7;-3469.7; 01-FEB-2004 08:08:37; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;10052
 8;-3344.8; 01-FEB-2004 08:10:42; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;10052
 9;-2779.5; 01-FEB-2004 08:20:07; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;10052
 10;-2609.2; 01-FEB-2004 08:22:58; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;10052
 11;-2423.0; 01-FEB-2004 08:26:04; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;10052
 12;-2303.4; 01-FEB-2004 08:28:03; Bright; 56.5; 55; 79Zet UMa ; 2.06; 10200;occ; 113; 0;10052
 13;-2140.6; 01-FEB-2004 08:30:46; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10052
 14;-1950.4; 01-FEB-2004 08:33:56; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;10052
 15;-1732.7; 01-FEB-2004 08:37:34; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10052
 16;-1550.6; 01-FEB-2004 08:40:36; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;10052
 17;-1305.1; 01-FEB-2004 08:44:42; Bright; 104.0; 83; ; 2.38; 11000;occ; 208; 0;10052
 18;-1112.6; 01-FEB-2004 08:47:54; Bright; 45.5; 126; 60Bet Oph ; 2.77; 4250;occ; 91; 0;10052
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 21; -561.0; 01-FEB-2004 08:57:06; Dark ; 44.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 89; 0;10052
 22; -465.9; 01-FEB-2004 08:58:41; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;10052
 23; -332.0; 01-FEB-2004 09:00:55; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;10052
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 26; 193.1; 01-FEB-2004 09:09:40; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;10053

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27; 273.0; 01-FEB-2004 09:11:00; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10053
28; 468.6; 01-FEB-2004 09:14:15; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;10053
29; 589.5; 01-FEB-2004 09:16:16; Dark ; 47.0; 99; Del Cen ; 2.58; 26000;occ; 94; 0;10053
30; 707.4; 01-FEB-2004 09:18:14; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;10053
31; 822.2; 01-FEB-2004 09:20:09; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;10053
32; 927.3; 01-FEB-2004 09:21:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;10053
33; 1078.7; 01-FEB-2004 09:24:25; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;10053
34; 1203.8; 01-FEB-2004 09:26:31; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;10053
35; 1286.6; 01-FEB-2004 09:27:53; Dark ; 40.5; 117; Pi Pup ; 2.71; 3800;occ; 81; 0;10053
36; 1432.5; 01-FEB-2004 09:30:19; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;10053
37; 1515.4; 01-FEB-2004 09:31:42; Dark ; 40.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 81; 0;10053
38; 1644.4; 01-FEB-2004 09:33:51; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;10053
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2;-4293.0; 01-FEB-2004 09:35:30; Dark ; 68.0; 48; 30Alp Hya ; 1.98; 4100;occ; 136; 0;10053
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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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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