

# GOMOS Daily Report 14-DEC-2003

## 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 | 15DEC2003 06:48:57               |
| Data source version       | <Any version>                    |
| Start time of products    | 14-DEC-2003 (14DEC2003 00:00:00) |
| Stop time of products     | 15-DEC-2003 (15DEC2003 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

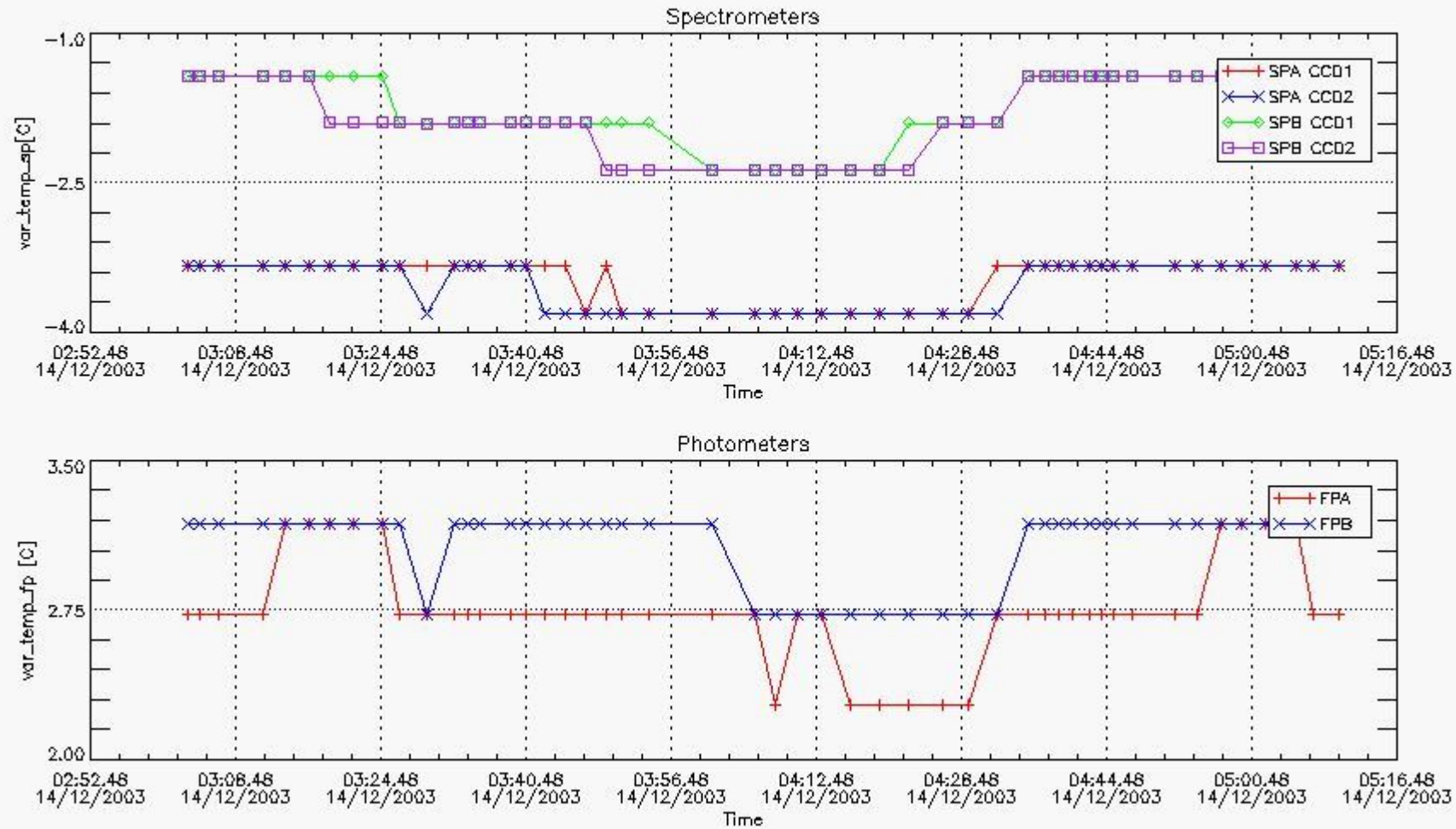
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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 |
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|

|  |                      |        |        |     |           |          |        |     |      |     |
|--|----------------------|--------|--------|-----|-----------|----------|--------|-----|------|-----|
| GOM_TRA_1PNPDE20031214_030333_000000392022_00275_09347_0028.N1 | 14-DEC-2003 03:03:33 | Dark   | 39.000 | 10  | Bet Cen   | 0.61000  | 28000. | 78  | 9347 | No  |
| GOM_TRA_1PNPDE20031214_030453_000000472022_00276_09348_0029.N1 | 14-DEC-2003 03:04:53 | Dark   | 46.500 | 20  | Bet Cru   | 1.2530   | 30000. | 93  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_030659_000000382022_00276_09348_0030.N1 | 14-DEC-2003 03:06:59 | Dark   | 38.000 | 112 | Alp Mus   | 2.6880   | 26000. | 76  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_031143_000000452022_00276_09348_0031.N1 | 14-DEC-2003 03:11:43 | Dark   | 45.000 | 29  | Bet Car   | 1.6720   | 10200. | 90  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_031410_000000432022_00276_09348_0032.N1 | 14-DEC-2003 03:14:10 | Dark   | 43.000 | 41  | Eps Car   | 1.8600   | 4100.0 | 86  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_031649_000000512022_00276_09348_0033.N1 | 14-DEC-2003 03:16:49 | Dark   | 50.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 101 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_031908_000000492022_00276_09348_0034.N1 | 14-DEC-2003 03:19:08 | Dark   | 49.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 98  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_032145_000000582022_00276_09348_0035.N1 | 14-DEC-2003 03:21:45 | Dark   | 58.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 116 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_032504_000000632022_00276_09348_0036.N1 | 14-DEC-2003 03:25:04 | Dark   | 63.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 126 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_032657_000000612022_00276_09348_0037.N1 | 14-DEC-2003 03:26:57 | Dark   | 60.500 | 179 | 24Omi2CMa | 3.0320   | 24000. | 121 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_032949_000000602022_00276_09348_0000.N1 | 14-DEC-2003 03:29:49 | Dark   | 59.500 | 47  | 2Bet CMa  | 1.9760   | 28000. | 119 | 9348 | Yes |
| GOM_TRA_1PNPDE20031214_033256_000000522022_00276_09348_0001.N1 | 14-DEC-2003 03:32:56 | Dark   | 52.000 | 56  | 53Kap Ori | 2.0650   | 30000. | 104 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_033425_000000472022_00276_09348_0002.N1 | 14-DEC-2003 03:34:25 | Dark   | 47.000 | 128 | 67Bet Eri | 2.7840   | 9700.0 | 94  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_033546_000000512022_00276_09348_0003.N1 | 14-DEC-2003 03:35:46 | Dark   | 50.500 | 30  | 46Eps Ori | 1.6940   | 30000. | 101 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_033904_000000662022_00276_09348_0004.N1 | 14-DEC-2003 03:39:04 | Dark   | 66.000 | 14  | 58Alp Ori | 0.87000  | 3000.0 | 132 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_034050_000000502022_00276_09348_0005.N1 | 14-DEC-2003 03:40:50 | Dark   | 49.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 99  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_034256_000000382022_00276_09348_0006.N1 | 14-DEC-2003 03:42:56 | Bright | 38.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 76  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_034507_000000392022_00276_09348_0007.N1 | 14-DEC-2003 03:45:07 | Bright | 39.000 | 150 | 44Zet Per | 2.8900   | 28000. | 78  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_034727_000000362022_00276_09348_0008.N1 | 14-DEC-2003 03:47:27 | Bright | 35.500 | 149 | 45Eps Per | 2.8880   | 30000. | 71  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_034936_000000372022_00276_09348_0009.N1 | 14-DEC-2003 03:49:36 | Bright | 37.000 | 175 | 39Del Per | 3.0100   | 19400. | 74  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_035119_000000362022_00276_09348_0010.N1 | 14-DEC-2003 03:51:19 | Bright | 36.000 | 160 | 23Gam Per | 2.9300   | 4700.0 | 72  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_035424_000000382022_00276_09348_0011.N1 | 14-DEC-2003 03:54:24 | Bright | 37.500 | 110 | 37Del Cas | 2.6780   | 8900.0 | 75  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_040118_000000362022_00276_09348_0012.N1 | 14-DEC-2003 04:01:18 | Bright | 35.500 | 49  | 1Alp UMi  | 1.9900   | 6300.0 | 71  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_040602_000000412022_00276_09348_0013.N1 | 14-DEC-2003 04:06:02 | Bright | 40.500 | 60  | 7Bet UMi  | 2.0810   | 3950.0 | 81  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_040811_000000502022_00276_09348_0014.N1 | 14-DEC-2003 04:08:11 | Bright | 50.000 | 82  | 48Bet UMa | 2.3650   | 10600. | 100 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_041046_000000442022_00276_09348_0015.N1 | 14-DEC-2003 04:10:46 | Bright | 44.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 88  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_041317_000000572022_00276_09348_0016.N1 | 14-DEC-2003 04:13:17 | Bright | 57.000 | 39  | 85Eta UMa | 1.8540   | 24000. | 114 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_041632_000000382022_00276_09348_0017.N1 | 14-DEC-2003 04:16:32 | Bright | 37.500 | 180 | 27Gam Boo | 3.0400   | 8000.0 | 75  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_041942_000000372022_00276_09348_0018.N1 | 14-DEC-2003 04:19:42 | Bright | 37.000 | 83  |           | 2.3780   | 11000. | 74  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_042257_000000412022_00276_09348_0019.N1 | 14-DEC-2003 04:22:57 | Bright | 40.500 | 111 | 8Eta Boo  | 2.6800   | 6000.0 | 81  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_042644_000000512022_00276_09348_0020.N1 | 14-DEC-2003 04:26:44 | Bright | 50.500 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 101 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_042927_000000922022_00276_09348_0021.N1 | 14-DEC-2003 04:29:27 | Dark   | 92.000 | 62  | 94Bet Leo | 2.1360   | 9700.0 | 184 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_043240_000000532022_00276_09348_0022.N1 | 14-DEC-2003 04:32:40 | Dark   | 53.000 | 15  | 67Alp Vir | 0.97600  | 28000. | 106 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_043610_000000482022_00276_09348_0023.N1 | 14-DEC-2003 04:36:10 | Dark   | 47.500 | 169 | 46Gam Hya | 2.9910   | 4700.0 | 95  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_043759_000000522022_00276_09348_0024.N1 | 14-DEC-2003 04:37:59 | Dark   | 52.000 | 54  | 5The Cen  | 2.0550   | 4500.0 | 104 | 9348 | No  |
| GOM_TRA_1PNPDE20031214_043927_000000422022_00276_09348_0025.N1 | 14-DEC-2003 04:39:27 | Dark   | 42.000 | 123 | 1ot Cen   | 2.7500   | 10200. | 84  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_044101_000000402022_00276_09348_0026.N1 | 14-DEC-2003 04:41:01 | Dark   | 40.000 | 95  | Zet Cen   | 2.5450   | 26000. | 80  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_044253_000000412022_00276_09348_0027.N1 | 14-DEC-2003 04:42:53 | Dark   | 41.000 | 77  | Eps Cen   | 2.3030   | 28000. | 82  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_044409_000000442022_00276_09348_0028.N1 | 14-DEC-2003 04:44:09 | Dark   | 43.500 | 10  | Bet Cen   | 0.61000  | 28000. | 87  | 9348 | No  |
| GOM_TRA_1PNPDE20031214_044530_000000432022_00277_09349_0029.N1 | 14-DEC-2003 04:45:30 | Dark   | 43.000 | 20  | Bet Cru   | 1.2530   | 30000. | 86  | 9349 | No  |
| GOM_TRA_1PNPDE20031214_044736_000000382022_00277_09349_0030.N1 | 14-DEC-2003 04:47:36 | Dark   | 37.500 | 112 | Alp Mus   | 2.6880   | 26000. | 75  | 9349 | No  |
| GOM_TRA_1PNPDE20031214_045220_000000402022_00277_09349_0031.N1 | 14-DEC-2003 04:52:20 | Dark   | 40.000 | 29  | Bet Car   | 1.6720   | 10200. | 80  | 9349 | No  |
| GOM_TRA_1PNPDE20031214_045447_000000562022_00277_09349_0032.N1 | 14-DEC-2003 04:54:47 | Dark   | 56.000 | 41  | Eps Car   | 1.8600   | 4100.0 | 112 | 9349 | No  |
| GOM_TRA_1PNPDE20031214_045726_000000492022_00277_09349_0033.N1 | 14-DEC-2003 04:57:26 | Dark   | 49.000 | 34  | Gam2Vel   | 1.7930   | 23000. | 98  | 9349 | No  |
| GOM_TRA_1PNPDE20031214_045945_000000542022_00277_09349_0034.N1 | 14-DEC-2003 04:59:45 | Dark   | 54.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 108 | 9349 | No  |
| GOM_TRA_1PNPDE20031214_050223_000000582022_00277_09349_0035.N1 | 14-DEC-2003 05:02:23 | Dark   | 57.500 | 117 | Pi Pup    | 2.7060   | 3800.0 | 115 | 9349 | No  |
| GOM_TRA_1PNPDE20031214_050543_000000582022_00277_09349_0036.N1 | 14-DEC-2003 05:05:43 | Dark   | 57.500 | 23  | 21Eps CMa | 1.5020   | 26000. | 115 | 9349 | No  |
| GOM_TRA_1PNPDE20031214_050733_000000582022_00277_09349_0037.N1 | 14-DEC-2003 05:07:33 | Dark   | 58.000 | 179 | 24Omi2CMa | 3.0320   | 24000. | 116 | 9349 | No  |
| GOM_TRA_1PNPDE20031214_051026_000000442022_00277_09349_0038.N1 | 14-DEC-2003 05:10:26 | Dark   | 43.500 | 47  | 2Bet CMa  | 1.9760   | 28000. | 87  | 9349 | No  |

### 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



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

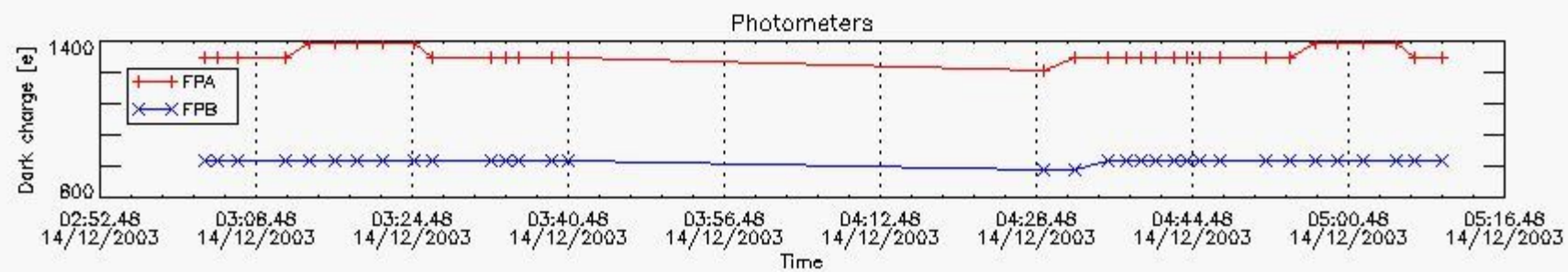
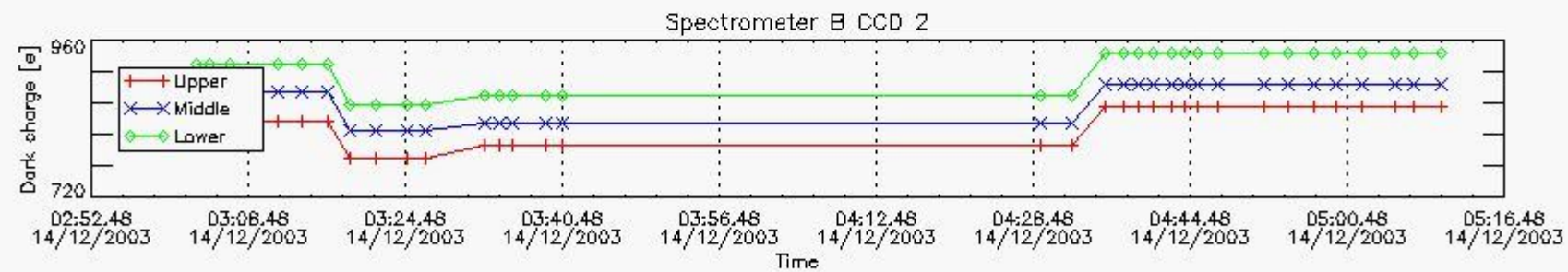
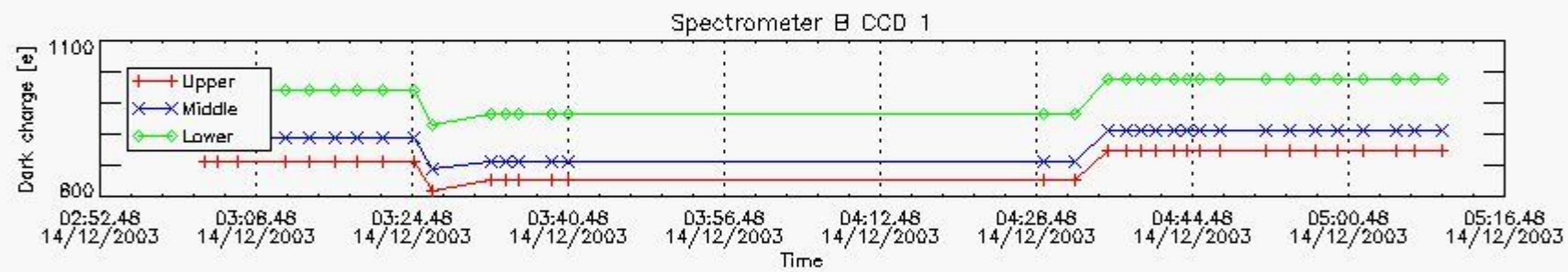
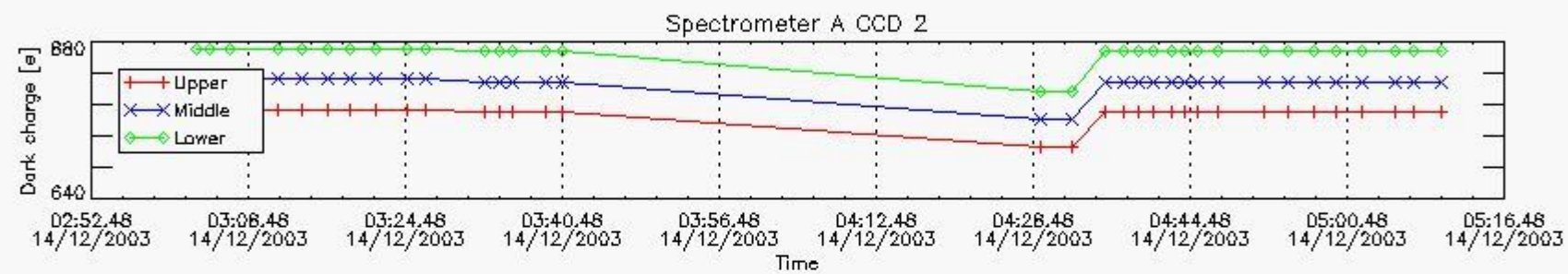
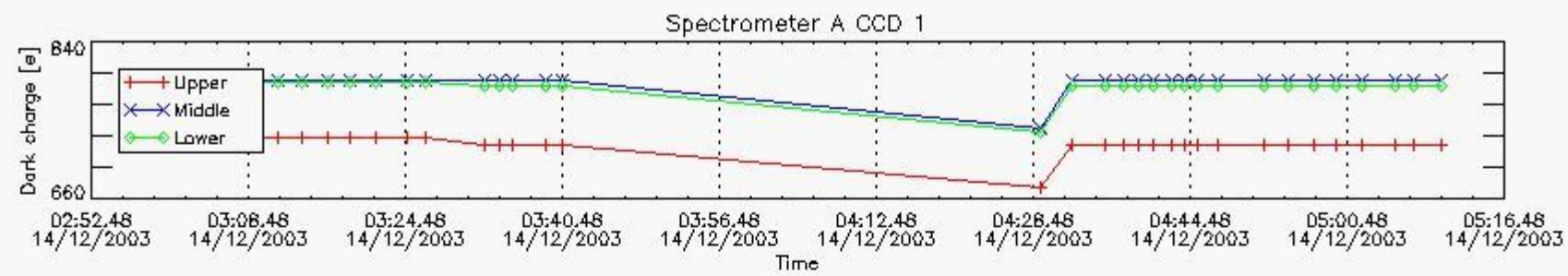
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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

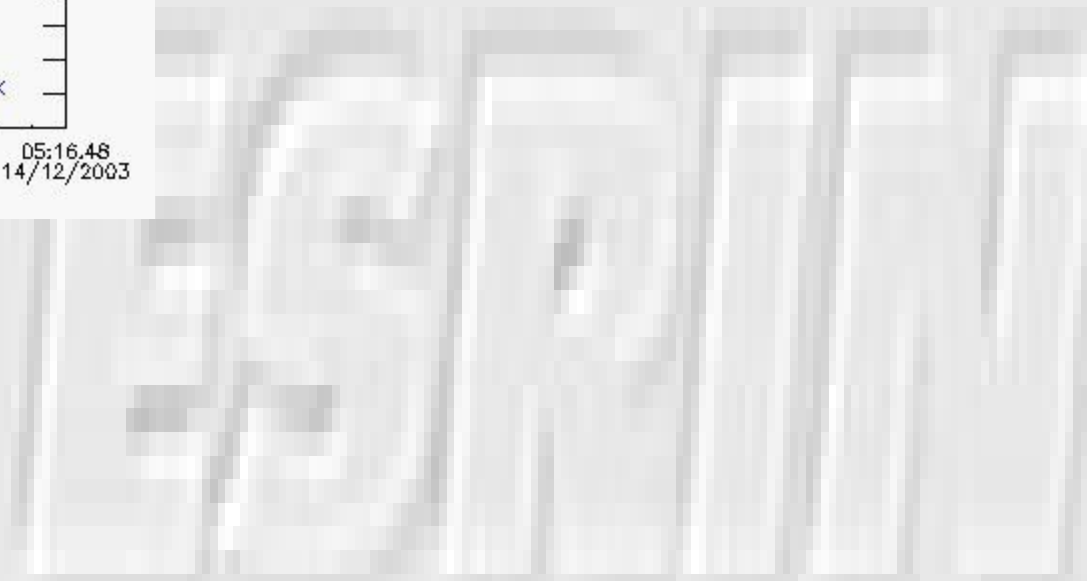




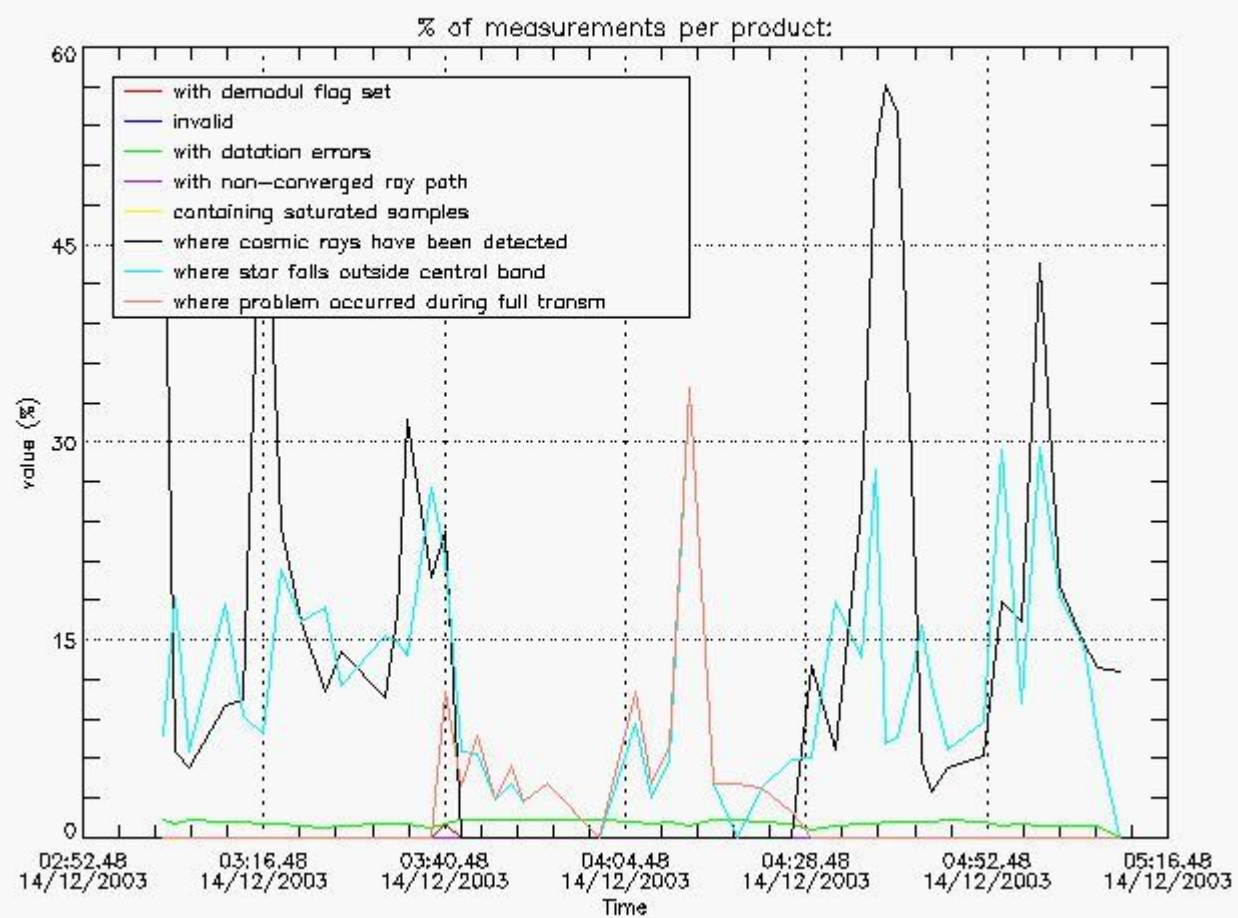
## 5. Demodulation flag and quality information monitoring

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

|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 6.25000 % |
| 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



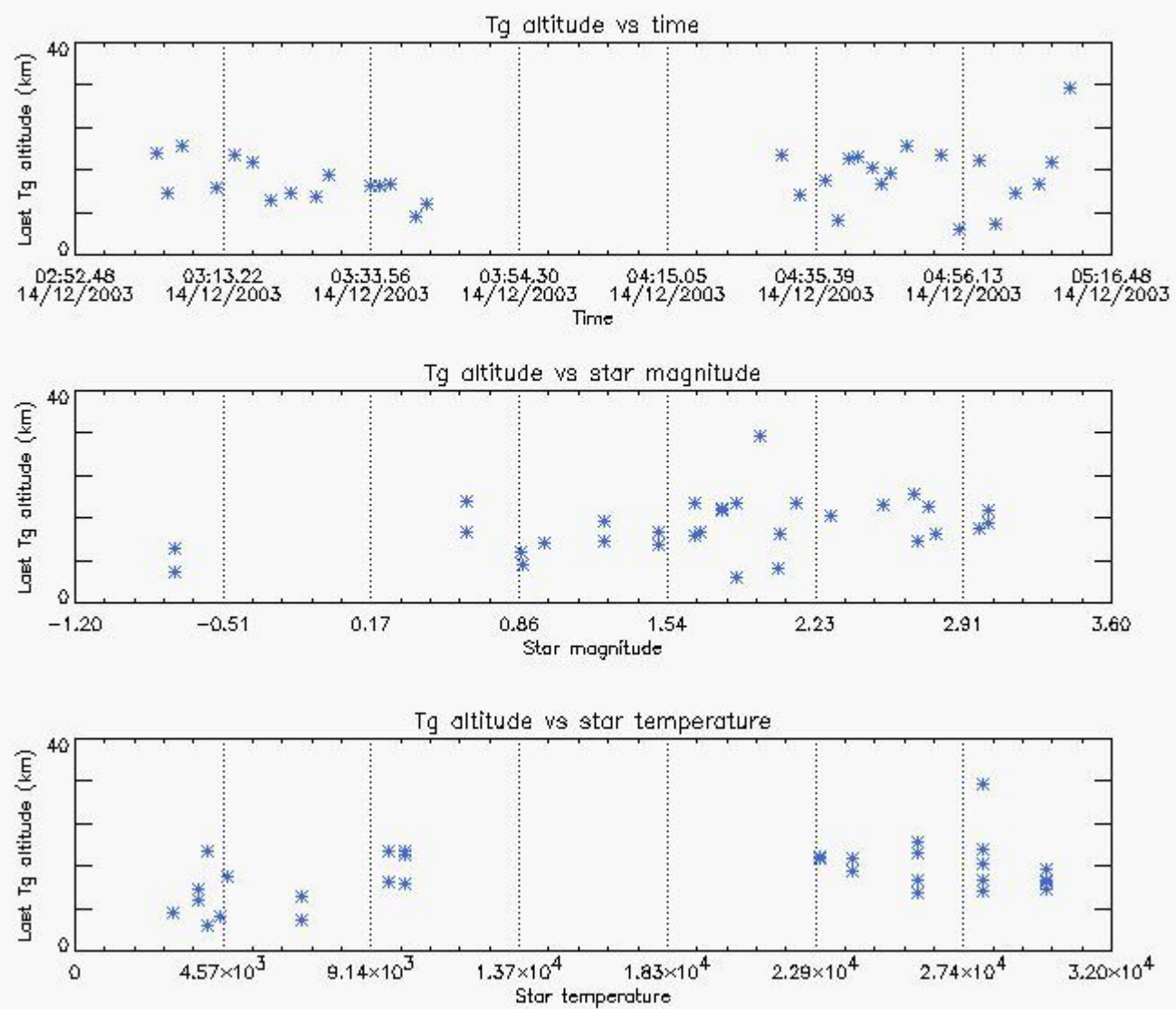
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT |
|-----------------|--------|--------|
| Mean:           | 14.488 | 21.096 |
| St. deviation:  | 5.2434 | 5.2020 |
| Maximum:        | 31.324 | 27.851 |
| Minimum:        | 4.8460 | 4.4558 |
| Number of data: | 33.000 | 15.000 |

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

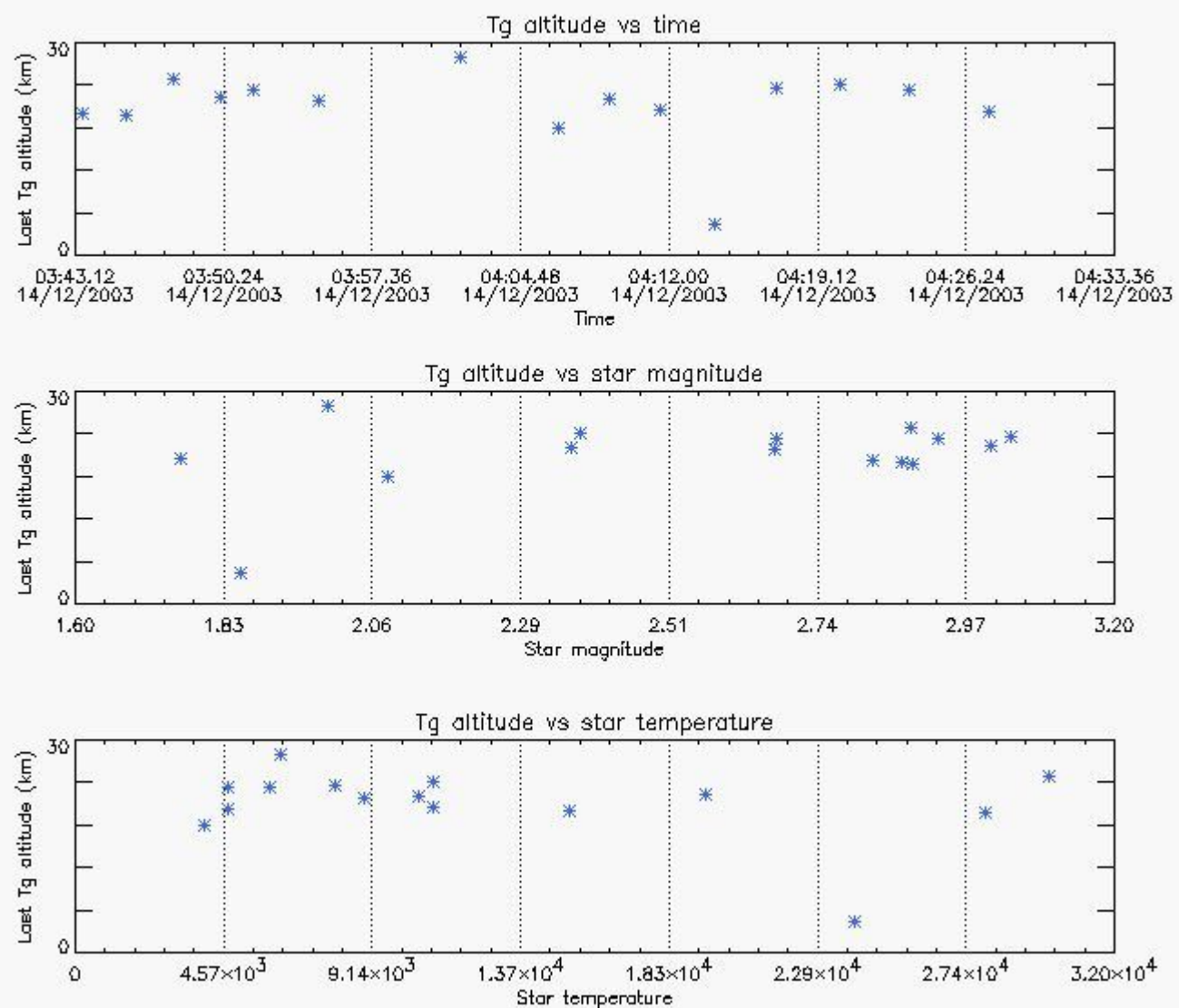


6.3 Plot for BRIGHT limb products





## 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

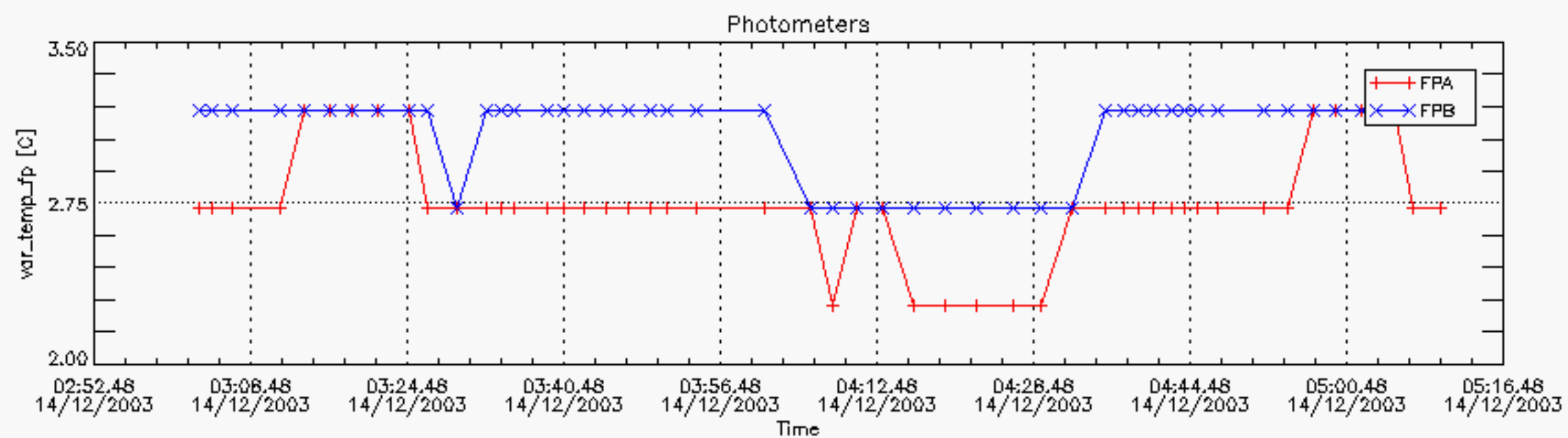
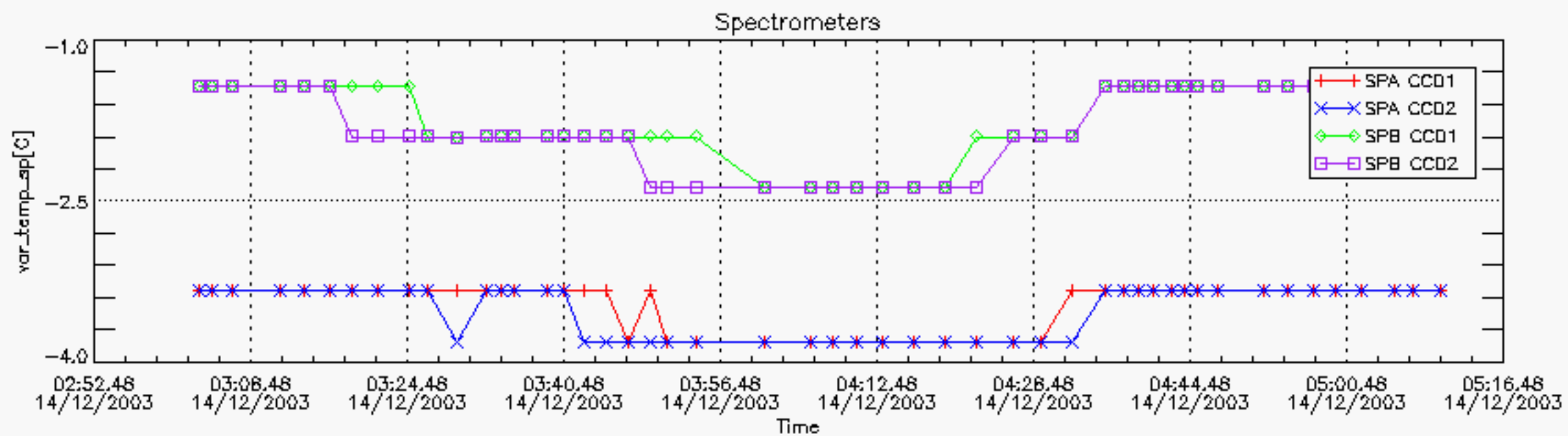
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

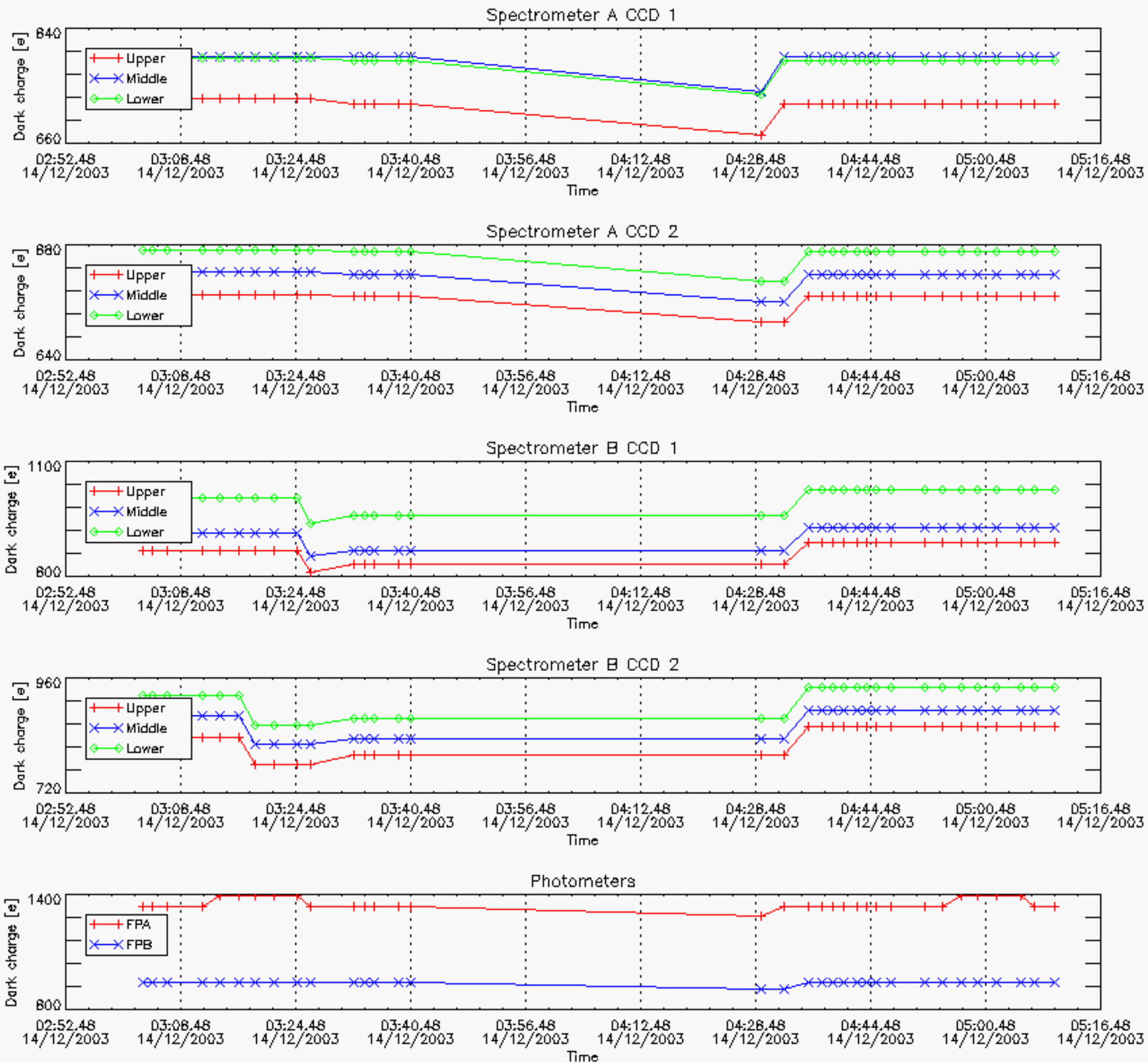
| Statistics      | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean:           | 1462.1     | 1447.4     | 1461.0     | 1447.5     |
| St. deviation:  | 5.1208     | 6.4026     | 9.3923     | 10.748     |
| Maximum:        | 1507.0     | 1494.0     | 1515.0     | 1507.0     |
| Minimum:        | 1443.0     | 1425.0     | 1441.0     | 1423.0     |
| Number of data: | 40700.     | 40700.     | 16200.     | 16200.     |

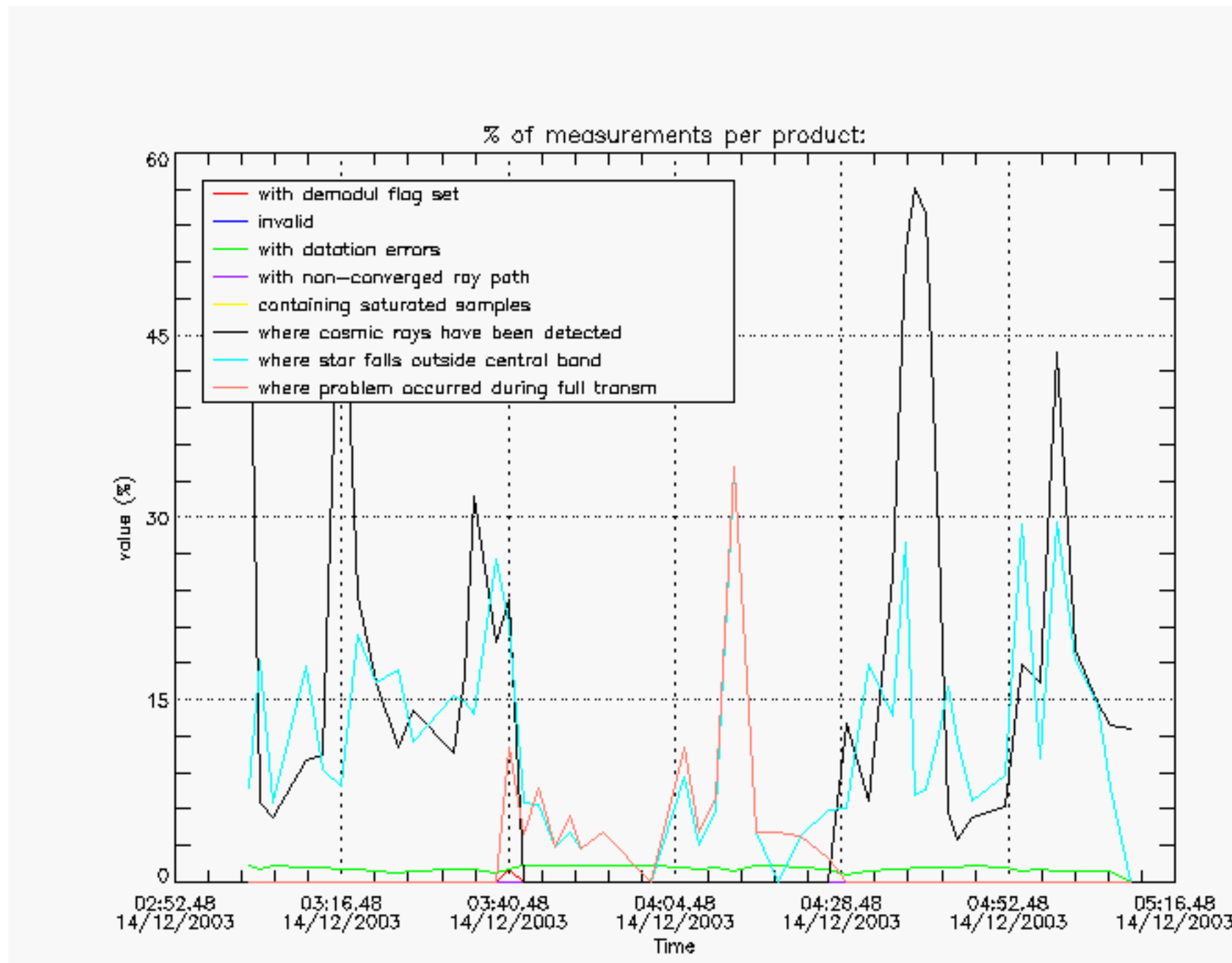




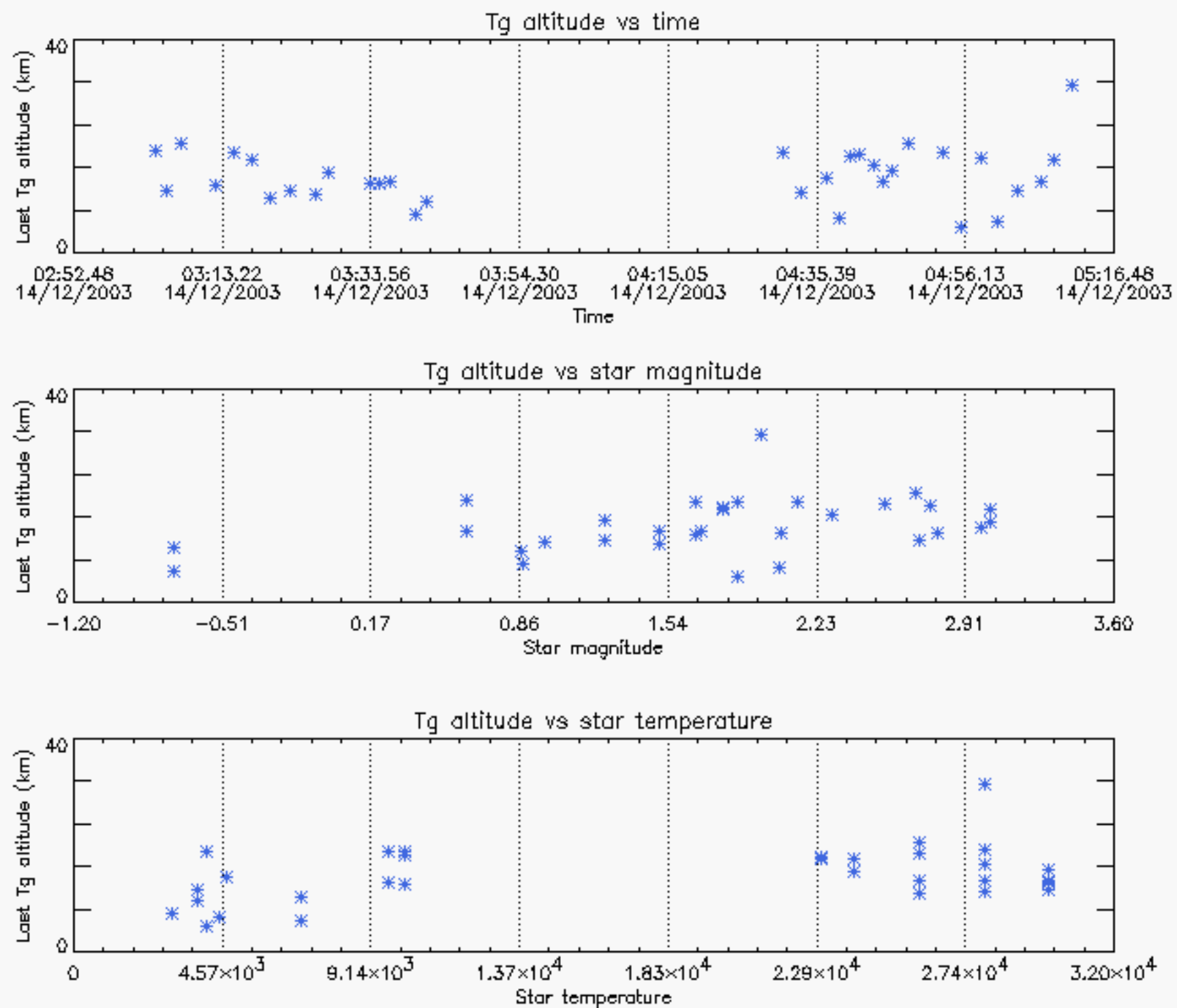






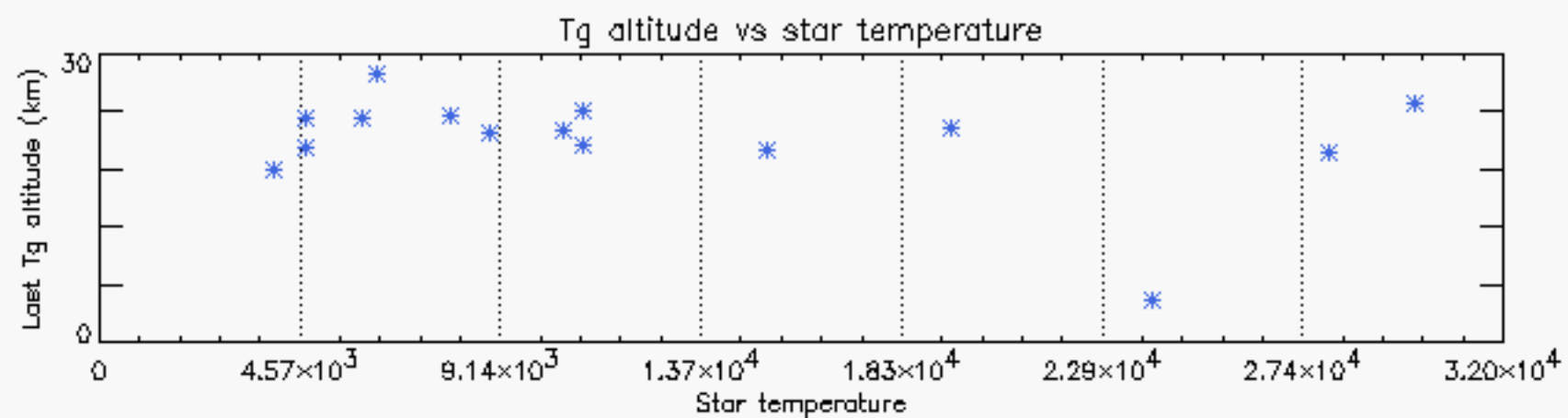
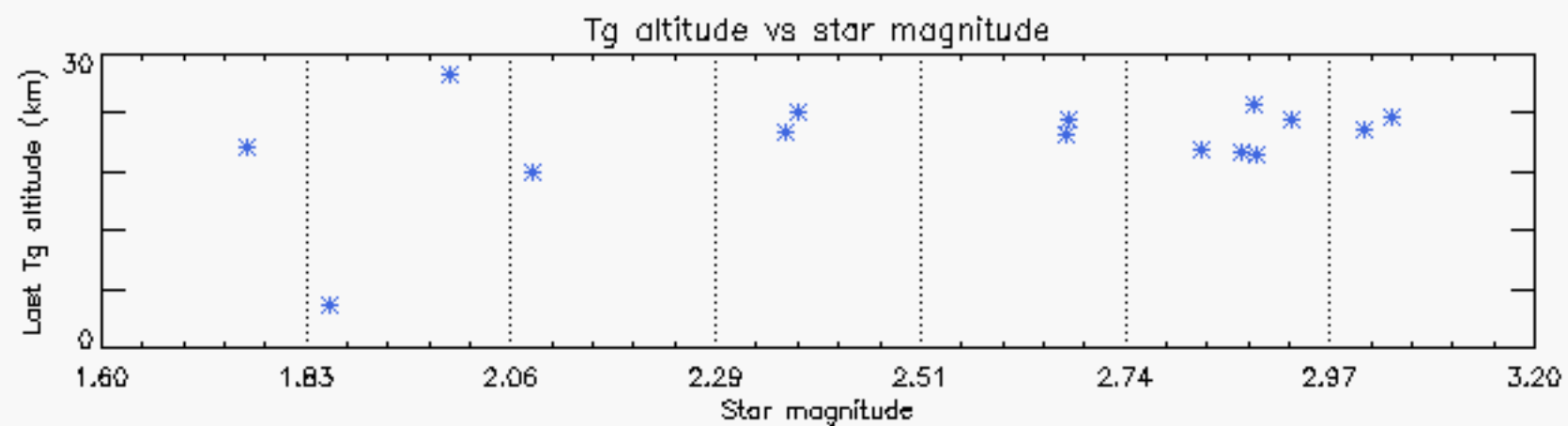
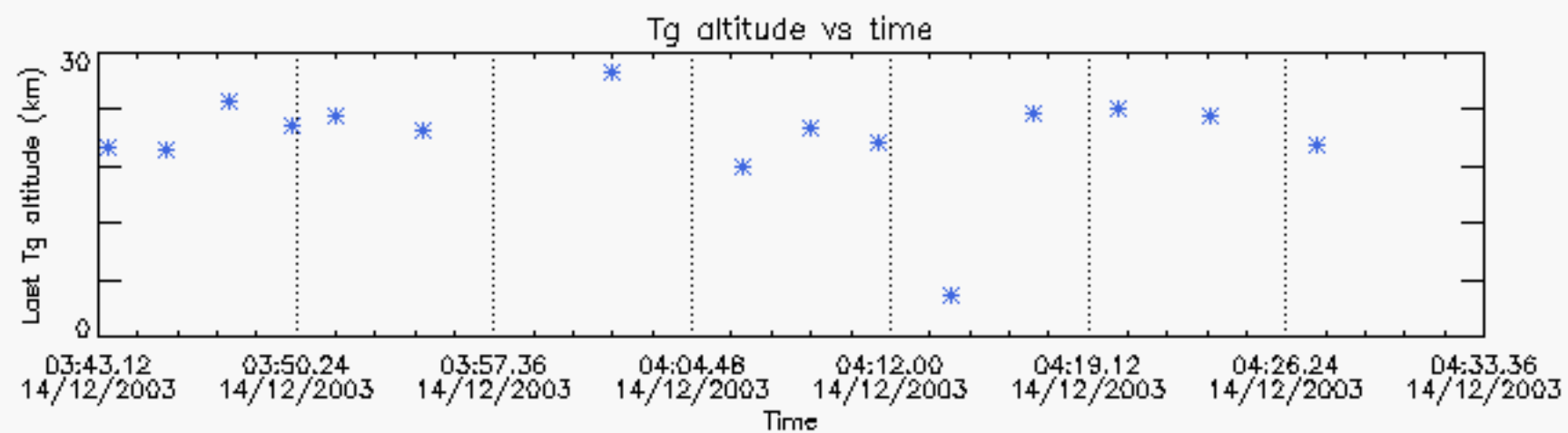


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20031201\_052111\_000061942022\_00091\_09163\_0248.N1

1;-4379.2; 01-DEC-2003 05:21:11; Dark ; 45.0; 165; 34Gam Eri ; 2.95; 3200;occ; 90; 0; 9163  
 2;-4285.0; 01-DEC-2003 05:22:45; Dark ; 62.5; 7; 19Bet Ori ; 0.10; 14000;occ; 125; 0; 9163  
 3;-4102.1; 01-DEC-2003 05:25:48; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0; 9163  
 4;-3938.0; 01-DEC-2003 05:28:32; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0; 9163  
 5;-3804.3; 01-DEC-2003 05:30:46; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0; 9163  
 6;-3708.7; 01-DEC-2003 05:32:21; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0; 9163  
 7;-3567.0; 01-DEC-2003 05:34:43; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83; 0; 9163  
 8;-3433.2; 01-DEC-2003 05:36:57; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0; 9163  
 9;-3299.9; 01-DEC-2003 05:39:10; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0; 9163  
 10;-3219.4; 01-DEC-2003 05:40:31; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0; 9163  
 11;-3080.2; 01-DEC-2003 05:42:50; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0; 9163  
 12;-2616.4; 01-DEC-2003 05:50:34; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0; 9163  
 13;-2335.8; 01-DEC-2003 05:55:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0; 9163  
 14;-2215.0; 01-DEC-2003 05:57:15; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0; 9163  
 15;-2118.3; 01-DEC-2003 05:58:52; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0; 9163  
 16;-2022.8; 01-DEC-2003 06:00:27; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0; 9163  
 17;-1898.7; 01-DEC-2003 06:02:31; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0; 9163  
 18;-1724.9; 01-DEC-2003 06:05:25; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0; 9163  
 19;-1544.0; 01-DEC-2003 06:08:26; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0; 9163  
 20;-1392.6; 01-DEC-2003 06:10:57; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0; 9163  
 21;-1177.5; 01-DEC-2003 06:14:32; Bright; 72.0; 96; 68Del Leo ; 2.56; 9300;occ; 144; 0; 9163  
 22;-919.6; 01-DEC-2003 06:18:50; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0; 9163  
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 28;-75.6; 01-DEC-2003 06:32:54; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0; 9163  
 29; 39.6; 01-DEC-2003 06:34:50; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0; 9164  
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 33; 601.1; 01-DEC-2003 06:44:11; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0; 9164  
 34; 803.4; 01-DEC-2003 06:47:33; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0; 9164  
 35; 914.2; 01-DEC-2003 06:49:24; Dark ; 66.0; 117; Pi Pup ; 2.71; 3800;occ; 132; 0; 9164  
 36; 1144.0; 01-DEC-2003 06:53:14; Dark ; 67.0; 23; 21Eps CMa ; 1.50; 26000;occ; 134; 0; 9164  
 37; 1273.4; 01-DEC-2003 06:55:23; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0; 9164  
 38; 1503.1; 01-DEC-2003 06:59:13; Dark ; 67.0; 47; 2Bet CMa ; 1.98; 28000;occ; 134; 0; 9164  
 39; 1657.2; 01-DEC-2003 07:01:47; Dark ; 47.0; 165; 34Gam Eri ; 2.95; 3200;occ; 94; 0; 9164  
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 3;-3804.3; 01-DEC-2003 07:11:22; Bright; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0; 9164  
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 5;-3566.6; 01-DEC-2003 07:15:19; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0; 9164  
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 8;-3219.4; 01-DEC-2003 07:21:06; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0; 9164  
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 26;-75.4; 01-DEC-2003 08:13:30; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0; 9164

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  
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 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  
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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  
 34; 1145.2; 01-DEC-2003 10:14:27; Dark ; 69.5; 23; 21Eps CMa ; 1.50; 26000;occ; 139; 0; 9166  
 35; 1275.0; 01-DEC-2003 10:16:37; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0; 9166  
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32; 918.0; 01-DEC-2003 11:51:16; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0; 9167
33; 1146.2; 01-DEC-2003 11:55:04; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0; 9167
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| 25;   | -564.5;  | 09-DEC-2003 | 15:36:36; | Dark    | ;      | 44.0; | 169;      | 46Gam Hya | ;     | 2.99;      | 4700;occ;  | 88;  | 0;   | 9283 |
| 26;   | -436.8;  | 09-DEC-2003 | 15:38:44; | Dark    | ;      | 38.5; | 54;       | 5The Cen  | ;     | 2.06;      | 4500;occ;  | 77;  | 0;   | 9283 |
| 27;   | -362.1;  | 09-DEC-2003 | 15:39:58; | Dark    | ;      | 42.5; | 123;      | Iot Cen   | ;     | 2.75;      | 10200;occ; | 85;  | 0;   | 9283 |
| 28;   | -253.6;  | 09-DEC-2003 | 15:41:47; | Dark    | ;      | 38.0; | 95;       | Zet Cen   | ;     | 2.55;      | 26000;occ; | 76;  | 0;   | 9283 |
| 29;   | -141.8;  | 09-DEC-2003 | 15:43:39; | Dark    | ;      | 40.5; | 77;       | Eps Cen   | ;     | 2.30;      | 28000;occ; | 81;  | 0;   | 9283 |
| 30;   | -57.4;   | 09-DEC-2003 | 15:45:03; | Dark    | ;      | 38.0; | 10;       | Bet Cen   | ;     | 0.61;      | 28000;occ; | 76;  | 0;   | 9283 |
| 31;   | 50.1;    | 09-DEC-2003 | 15:46:50; | Dark    | ;      | 37.0; | 129;      | Del Cru   | ;     | 2.79;      | 26000;occ; | 74;  | 0;   | 9284 |
| 32;   | 144.3;   | 09-DEC-2003 | 15:48:25; | Dark    | ;      | 36.5; | 112;      | Alp Mus   | ;     | 2.69;      | 26000;occ; | 73;  | 0;   | 9284 |
| 33;   | 302.6;   | 09-DEC-2003 | 15:51:03; | Dark    | ;      | 59.5; | 0;        |           | ;     | 0.00;      | 0;occ;     | 119; | 0;   | 9284 |
| 34;   | 420.3;   | 09-DEC-2003 | 15:53:01; | Dark    | ;      | 37.5; | 29;       | Bet Car   | ;     | 1.67;      | 10200;occ; | 75;  | 0;   | 9284 |
| 35;   | 549.4;   | 09-DEC-2003 | 15:55:10; | Dark    | ;      | 65.5; | 65;       | Lam Vel   | ;     | 2.20;      | 4400;occ;  | 131; | 0;   | 9284 |
| 36;   | 704.4;   | 09-DEC-2003 | 15:57:45; | Dark    | ;      | 50.0; | 34;       | Gam2Vel   | ;     | 1.79;      | 23000;occ; | 100; | 0;   | 9284 |
| 37;   | 864.7;   | 09-DEC-2003 | 16:00:25; | Dark    | ;      | 48.5; | 2;        | Alp Car   | ;     | -0.74;     | 7000;occ;  | 97;  | 0;   | 9284 |
| 38;   | 1009.3;  | 09-DEC-2003 | 16:02:50; | Dark    | ;      | 61.5; | 117;      | Pi Pup    | ;     | 2.71;      | 3800;occ;  | 123; | 0;   | 9284 |
| 39;   | 1219.6;  | 09-DEC-2003 | 16:06:20; | Dark    | ;      | 55.0; | 23;       | 21Eps CMA | ;     | 1.50;      | 26000;occ; | 110; | 0;   | 9284 |
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| 2;  | -4699.5; | 09-DEC-2003 | 16:08:17; | Dark    | ;      | 60.0; | 179;      | 240mi2CMA | ;     | 3.03;      | 24000;occ; | 120; | 0;   | 9284 |
| 3;  | -4490.7; | 09-DEC-2003 | 16:11:46; | Dark    | ;      | 86.0; | 1;        | 9Alp CMA  | ;     | -1.44;     | 11000;occ; | 172; | 0;   | 9284 |
| 4;  | -4286.8; | 09-DEC-2003 | 16:15:10; | Dark    | ;      | 50.0; | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 100; | 0;   | 9284 |
| 5;  | -4147.5; | 09-DEC-2003 | 16:17:29; | Dark    | ;      | 51.5; | 33;       | 50Zet Ori | ;     | 1.77;      | 30000;occ; | 103; | 0;   | 9284 |
| 6;  | -4036.8; | 09-DEC-2003 | 16:19:20; | Dark    | ;      | 45.0; | 94;       | 92Alp Cet | ;     | 2.53;      | 3100;occ;  | 90;  | 0;   | 9284 |
| 7;  | -3832.7; | 09-DEC-2003 | 16:22:44; | Dark    | ;      | 57.0; | 13;       | 87Alp Tau | ;     | 0.87;      | 3800;occ;  | 114; | 0;   | 9284 |
| 8;  | -3716.4; | 09-DEC-2003 | 16:24:40; | Bright; | 35.0;  | 146;  | 25Eta Tau | ;         | 2.87; | 15200;occ; | 70;        | 0;   | 9284 |      |
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| 10;   | -3484.7; | 09-DEC-2003 | 16:28:32; | Bright; | 33.5;  | 173;  | 4Bet Tri  | ;         | 3.00; | 8900;occ;  | 67;        | 0;   | 9284 |      |
| 11;   | -3362.3; | 09-DEC-2003 | 16:30:34; | Bright; | 34.5;  | 73;   | 57Gam1And | ;         | 2.26; | 13100;occ; | 69;        | 0;   | 9284 |      |
| 12;   | -3280.3; | 09-DEC-2003 | 16:31:56; | Bright; | 33.5;  | 35;   | 33Alp Per | ;         | 1.79; | 6250;occ;  | 67;        | 0;   | 9284 |      |
| 13;   | -3175.8; | 09-DEC-2003 | 16:33:41; | Bright; | 45.0;  | 42;   | 34Bet Aur | ;         | 1.90; | 10200;occ; | 90;        | 0;   | 9284 |      |
| 14;   | -3048.1; | 09-DEC-2003 | 16:35:48; | Bright; | 35.0;  | 110;  | 37Del Cas | ;         | 2.68; | 8900;occ;  | 70;        | 0;   | 9284 |      |
| 15;   | -2845.7; | 09-DEC-2003 | 16:39:11; | Bright; | 103.5; | 24;   | 66Alp Gem | ;         | 1.58; | 10200;occ; | 207;       | 0;   | 9284 |      |
| 16;   | -2613.3; | 09-DEC-2003 | 16:43:03; | Bright; | 35.5;  | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 71;        | 0;   | 9284 |      |
| 17;   | -2329.9; | 09-DEC-2003 | 16:47:46; | Bright; | 39.0;  | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 78;        | 0;   | 9284 |      |
| 18;   | -2151.7; | 09-DEC-2003 | 16:50:45; | Bright; | 34.0;  | 119;  | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 68;        | 0;   | 9284 |      |
| 19;   | -2034.4; | 09-DEC-2003 | 16:52:42; | Bright; | 40.5;  | 32;   | 77Eps UMa | ;         | 1.76; | 11000;occ; | 81;        | 0;   | 9284 |      |
| 20;   | -1894.4; | 09-DEC-2003 | 16:55:02; | Bright; | 37.5;  | 39;   | 85Eta UMa | ;         | 1.85; | 24000;occ; | 75;        | 0;   | 9284 |      |
| 21;   | -1707.2; | 09-DEC-2003 | 16:58:09; | Bright; | 33.5;  | 180;  | 27Gam Boo | ;         | 3.04; | 8000;occ;  | 67;        | 0;   | 9284 |      |
| 22;   | -1521.2; | 09-DEC-2003 | 17:01:15; | Bright; | 34.5;  | 83;   |           | ;         | 2.38; | 11000;occ; | 69;        | 0;   | 9284 |      |
| 23;   | -1332.6; | 09-DEC-2003 | 17:04:24; | Bright; | 36.5;  | 111;  | 8Eta Boo  | ;         | 2.68; | 6000;occ;  | 73;        | 0;   | 9284 |      |
| 24;   | -1123.3; | 09-DEC-2003 | 17:07:53; | Bright; | 45.5;  | 138;  | 47Eps Vir | ;         | 2.83; | 4700;occ;  | 91;        | 0;   | 9284 |      |
| 25;   | -1009.2; | 09-DEC-2003 | 17:09:47; | Dark    | ;      | 75.0; | 62;       | 94Bet Leo | ;     | 2.14;      | 9700;occ;  | 150; | 0;   | 9284 |
| 26;   | -833.7;  | 09-DEC-2003 | 17:12:43; | Dark    | ;      | 50.0; | 121;      | 29Gam Vir | ;     | 2.74;      | 7200;occ;  | 100; | 0;   | 9284 |
| 27;   | -563.7;  | 09-DEC-2003 | 17:17:13; | Dark    | ;      | 46.5; | 169;      | 46Gam Hya | ;     | 2.99;      | 4700;occ;  | 93;  | 0;   | 9284 |
| 28;   | -436.3;  | 09-DEC-2003 | 17:19:20; | Dark    | ;      | 43.0; | 54;       | 5The Cen  | ;     | 2.06;      | 4500;occ;  | 86;  | 0;   | 9284 |
| 29;   | -361.3;  | 09-DEC-2003 | 17:20:35; | Dark    | ;      | 37.5; | 123;      | Iot Cen   | ;     | 2.75;      | 10200;occ; | 75;  | 0;   | 9284 |
| 30;   | -253.2;  | 09-DEC-2003 | 17:22:23; | Dark    | ;      | 38.0; | 95;       | Zet Cen   | ;     | 2.55;      | 26000;occ; | 76;  | 0;   | 9284 |
| 31;   | -141.5;  | 09-DEC-2003 | 17:24:15; | Dark    | ;      | 39.5; | 77;       | Eps Cen   | ;     | 2.30;      | 28000;occ; | 79;  | 0;   | 9284 |
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| 33;   | 50.5;    | 09-DEC-2003 | 17:27:27; | Dark    | ;      | 38.5; | 129;      | Del Cru   | ;     | 2.79;      | 26000;occ; | 77;  | 0;   | 9285 |

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15;-1894.8; 10-DEC-2003 08:00:25; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0; 9293
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