

GOMOS Daily Report 21-JAN-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 | 22JAN2004 12:27:15 |
| Data source version | <Any version> |
| Start time of products | 21-JAN-2004 (21JAN2004 00:00:00) |
| Stop time of products | 22-JAN-2004 (22JAN2004 00:00:00) |
| Store outputs flag | 1 |
| Nb of level 1b prods | 48 |
| Nb of prods with errors | 0 |

2. Summary of products arrived in PCF

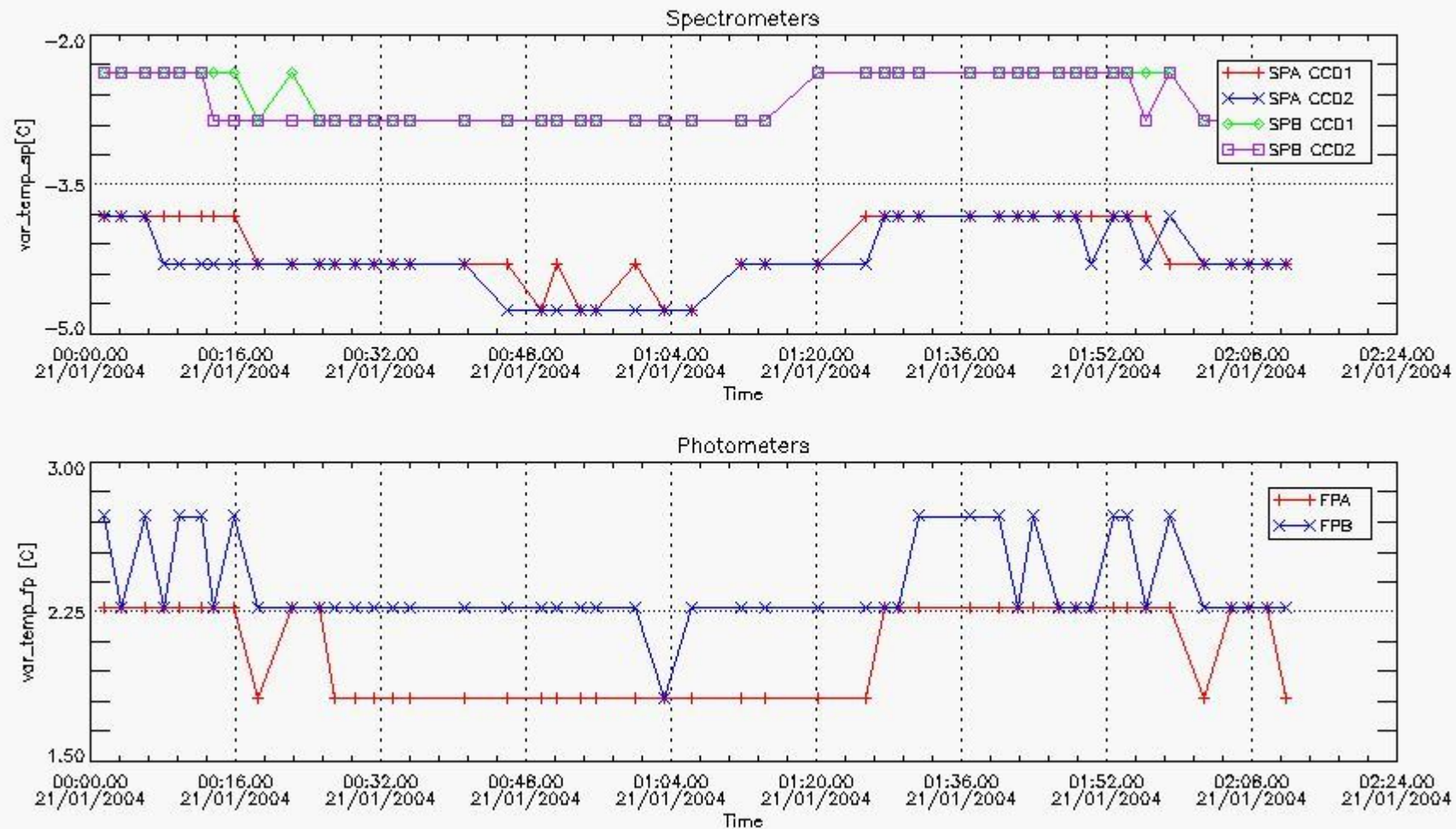
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

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

| | | | | | | | | | | |
|--|----------------------|--------|--------|-----|-----------|-----------|--------|-----|------|----|
| GOM_TRA_1PNPDE20040121_000130_000000432023_00317_09890_0030.N1 | 21-JAN-2004 00:01:30 | Dark | 42.500 | 71 | lot Car | 2.2460 | 7700.0 | 85 | 9890 | No |
| GOM_TRA_1PNPDE20040121_000321_000000432023_00317_09890_0031.N1 | 21-JAN-2004 00:03:21 | Dark | 43.000 | 46 | Del Vel | 1.9540 | 10600. | 86 | 9890 | No |
| GOM_TRA_1PNPDE20040121_000603_000000462023_00317_09890_0032.N1 | 21-JAN-2004 00:06:03 | Dark | 46.000 | 2 | Alp Car | -0.73600 | 7000.0 | 92 | 9890 | No |
| GOM_TRA_1PNPDE20040121_000806_000000442023_00317_09890_0033.N1 | 21-JAN-2004 00:08:06 | Dark | 44.000 | 70 | Zet Pup | 2.2460 | 39000. | 88 | 9890 | No |
| GOM_TRA_1PNPDE20040121_000941_000000472023_00317_09890_0034.N1 | 21-JAN-2004 00:09:41 | Dark | 46.500 | 117 | Pi Pup | 2.7060 | 3800.0 | 93 | 9890 | No |
| GOM_TRA_1PNPDE20040121_001210_000000432023_00317_09890_0000.N1 | 21-JAN-2004 00:12:10 | Dark | 43.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 86 | 9890 | No |
| GOM_TRA_1PNPDE20040121_001336_000000412023_00317_09890_0001.N1 | 21-JAN-2004 00:13:36 | Dark | 40.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 81 | 9890 | No |
| GOM_TRA_1PNPDE20040121_001546_000000472023_00317_09890_0002.N1 | 21-JAN-2004 00:15:46 | Dark | 46.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 93 | 9890 | No |
| GOM_TRA_1PNPDE20040121_001821_000000772023_00317_09890_0003.N1 | 21-JAN-2004 00:18:21 | Dark | 76.500 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 153 | 9890 | No |
| GOM_TRA_1PNPDE20040121_002210_000000532023_00317_09890_0004.N1 | 21-JAN-2004 00:22:10 | Dark | 53.000 | 8 | 10Alp CMi | 0.40000 | 6500.0 | 106 | 9890 | No |
| GOM_TRA_1PNPDE20040121_002513_000000432023_00317_09890_0005.N1 | 21-JAN-2004 00:25:13 | Dark | 42.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 85 | 9890 | No |
| GOM_TRA_1PNPDE20040121_002659_000000402023_00317_09890_0006.N1 | 21-JAN-2004 00:26:59 | Bright | 40.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 80 | 9890 | No |
| GOM_TRA_1PNPDE20040121_002906_000000382023_00317_09890_0007.N1 | 21-JAN-2004 00:29:06 | Bright | 38.000 | 28 | 12Bet Tau | 1.6500 | 15200. | 76 | 9890 | No |
| GOM_TRA_1PNPDE20040121_003111_000000372023_00317_09890_0008.N1 | 21-JAN-2004 00:31:11 | Bright | 37.000 | 107 | 37The Aur | 2.6490 | 11000. | 74 | 9890 | No |
| GOM_TRA_1PNPDE20040121_003320_000000382023_00317_09890_0009.N1 | 21-JAN-2004 00:33:20 | Bright | 38.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 76 | 9890 | No |
| GOM_TRA_1PNPDE20040121_003508_000000792023_00317_09890_0010.N1 | 21-JAN-2004 00:35:08 | Bright | 79.000 | 166 | 17Eps Leo | 2.9800 | 6000.0 | 158 | 9890 | No |
| GOM_TRA_1PNPDE20040121_004112_000002252023_00317_09890_0011.N1 | 21-JAN-2004 00:41:12 | Bright | 225.00 | 51 | 41Gam1Leo | 2.0100 | 4500.0 | 450 | 9890 | No |
| GOM_TRA_1PNPDE20040121_004554_000000352023_00317_09890_0012.N1 | 21-JAN-2004 00:45:54 | Bright | 34.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 69 | 9890 | No |
| GOM_TRA_1PNPDE20040121_004938_000000412023_00317_09890_0013.N1 | 21-JAN-2004 00:49:38 | Bright | 41.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 82 | 9890 | No |
| GOM_TRA_1PNPDE20040121_005125_000000542023_00317_09890_0014.N1 | 21-JAN-2004 00:51:25 | Bright | 54.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 108 | 9890 | No |
| GOM_TRA_1PNPDE20040121_005405_000000412023_00317_09890_0015.N1 | 21-JAN-2004 00:54:05 | Bright | 40.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 81 | 9890 | No |
| GOM_TRA_1PNPDE20040121_005542_000000552023_00317_09890_0016.N1 | 21-JAN-2004 00:55:42 | Bright | 55.000 | 39 | 85Eta UMa | 1.8540 | 24000. | 110 | 9890 | No |
| GOM_TRA_1PNPDE20040121_010006_000000382023_00317_09890_0017.N1 | 21-JAN-2004 01:00:06 | Bright | 37.500 | 5 | 3Alp Lyr | 0.033000 | 11000. | 75 | 9890 | No |
| GOM_TRA_1PNPDE20040121_010312_000000382023_00317_09890_0018.N1 | 21-JAN-2004 01:03:12 | Bright | 38.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 76 | 9890 | No |
| GOM_TRA_1PNPDE20040121_010619_000000662023_00317_09890_0019.N1 | 21-JAN-2004 01:06:19 | Bright | 65.500 | 83 | | 2.3780 | 11000. | 131 | 9890 | No |
| GOM_TRA_1PNPDE20040121_011139_000001092023_00317_09890_0020.N1 | 21-JAN-2004 01:11:39 | Dark | 109.00 | 3 | 16Alp Boo | -0.050000 | 4250.0 | 218 | 9890 | No |
| GOM_TRA_1PNPDE20040121_011419_000001492023_00317_09890_0021.N1 | 21-JAN-2004 01:14:19 | Dark | 149.00 | 111 | 8Eta Boo | 2.6800 | 6000.0 | 298 | 9890 | No |
| GOM_TRA_1PNPDE20040121_012005_000000472023_00317_09890_0022.N1 | 21-JAN-2004 01:20:05 | Dark | 46.500 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 93 | 9890 | No |
| GOM_TRA_1PNPDE20040121_012532_000000452023_00317_09890_0023.N1 | 21-JAN-2004 01:25:32 | Dark | 44.500 | 131 | Gam Lup | 2.8000 | 26000. | 89 | 9890 | No |
| GOM_TRA_1PNPDE20040121_012726_000000442023_00317_09890_0024.N1 | 21-JAN-2004 01:27:26 | Dark | 43.500 | 109 | Bet Lup | 2.6770 | 26000. | 87 | 9890 | No |
| GOM_TRA_1PNPDE20040121_012856_000000442023_00317_09890_0025.N1 | 21-JAN-2004 01:28:56 | Dark | 44.000 | 78 | Alp Lup | 2.3040 | 28000. | 88 | 9890 | No |
| GOM_TRA_1PNPDE20040121_013114_000000502023_00318_09891_0026.N1 | 21-JAN-2004 01:31:14 | Dark | 49.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 99 | 9891 | No |
| GOM_TRA_1PNPDE20040121_013659_000000482023_00318_09891_0027.N1 | 21-JAN-2004 01:36:59 | Dark | 47.500 | 99 | Del Cen | 2.5750 | 26000. | 95 | 9891 | No |
| GOM_TRA_1PNPDE20040121_014003_000000482023_00318_09891_0028.N1 | 21-JAN-2004 01:40:03 | Dark | 48.000 | 29 | Bet Car | 1.6720 | 10200. | 96 | 9891 | No |
| GOM_TRA_1PNPDE20040121_014207_000000412023_00318_09891_0029.N1 | 21-JAN-2004 01:42:07 | Dark | 41.000 | 71 | lot Car | 2.2460 | 7700.0 | 82 | 9891 | No |
| GOM_TRA_1PNPDE20040121_014357_000000412023_00318_09891_0030.N1 | 21-JAN-2004 01:43:57 | Dark | 41.000 | 46 | Del Vel | 1.9540 | 10600. | 82 | 9891 | No |
| GOM_TRA_1PNPDE20040121_014638_000000522023_00318_09891_0031.N1 | 21-JAN-2004 01:46:38 | Dark | 52.000 | 2 | Alp Car | -0.73600 | 7000.0 | 104 | 9891 | No |
| GOM_TRA_1PNPDE20040121_014842_000000472023_00318_09891_0032.N1 | 21-JAN-2004 01:48:42 | Dark | 47.000 | 70 | Zet Pup | 2.2460 | 39000. | 94 | 9891 | No |
| GOM_TRA_1PNPDE20040121_015017_000000472023_00318_09891_0033.N1 | 21-JAN-2004 01:50:17 | Dark | 46.500 | 117 | Pi Pup | 2.7060 | 3800.0 | 93 | 9891 | No |
| GOM_TRA_1PNPDE20040121_015246_000000472023_00318_09891_0034.N1 | 21-JAN-2004 01:52:46 | Dark | 47.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 94 | 9891 | No |
| GOM_TRA_1PNPDE20040121_015412_000000422023_00318_09891_0000.N1 | 21-JAN-2004 01:54:12 | Dark | 41.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 83 | 9891 | No |
| GOM_TRA_1PNPDE20040121_015622_000000522023_00318_09891_0001.N1 | 21-JAN-2004 01:56:22 | Dark | 52.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 104 | 9891 | No |
| GOM_TRA_1PNPDE20040121_015857_000000812023_00318_09891_0002.N1 | 21-JAN-2004 01:58:57 | Dark | 81.000 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 162 | 9891 | No |
| GOM_TRA_1PNPDE20040121_020245_000000592023_00318_09891_0003.N1 | 21-JAN-2004 02:02:45 | Dark | 59.000 | 8 | 10Alp CMi | 0.40000 | 6500.0 | 118 | 9891 | No |
| GOM_TRA_1PNPDE20040121_020548_000000462023_00318_09891_0004.N1 | 21-JAN-2004 02:05:48 | Dark | 45.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 91 | 9891 | No |
| GOM_TRA_1PNPDE20040121_020734_000000422023_00318_09891_0005.N1 | 21-JAN-2004 02:07:34 | Bright | 42.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 84 | 9891 | No |
| GOM_TRA_1PNPDE20040121_020939_000000402023_00318_09891_0006.N1 | 21-JAN-2004 02:09:39 | Bright | 40.000 | 28 | 12Bet Tau | 1.6500 | 15200. | 80 | 9891 | No |
| GOM_TRA_1PNPDE20040121_021146_000000382023_00318_09891_0007.N1 | 21-JAN-2004 02:11:46 | Bright | 37.500 | 107 | 37The Aur | 2.6490 | 11000. | 75 | 9891 | No |

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



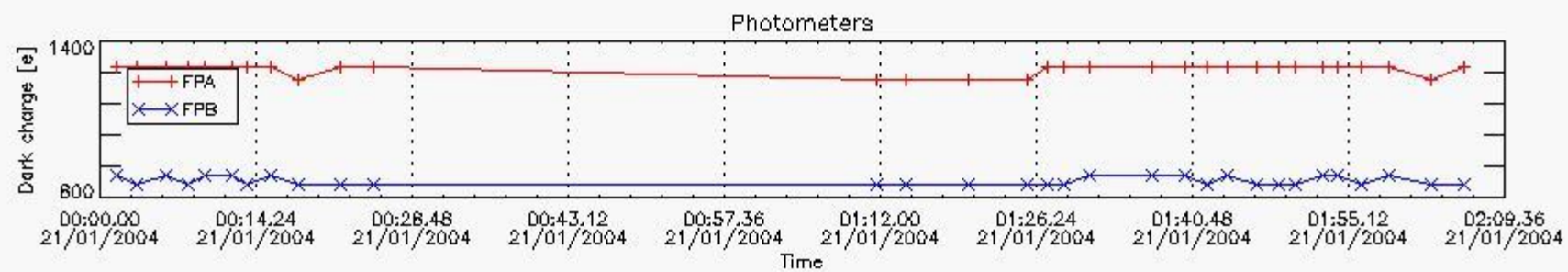
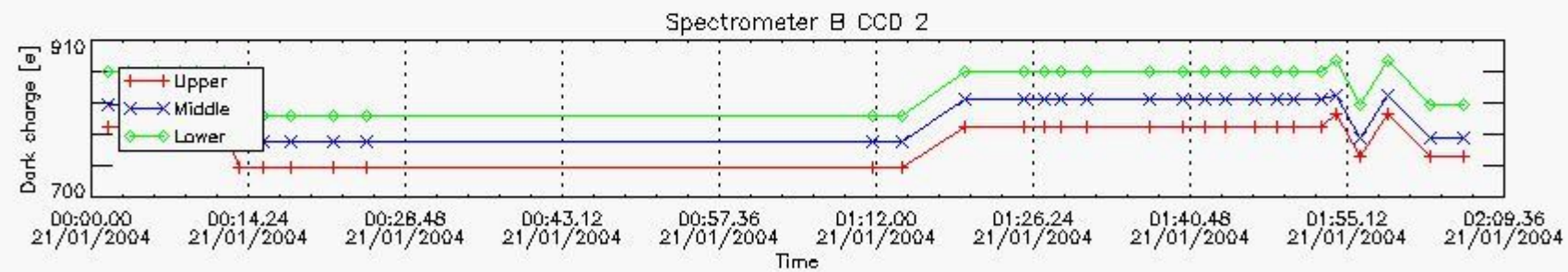
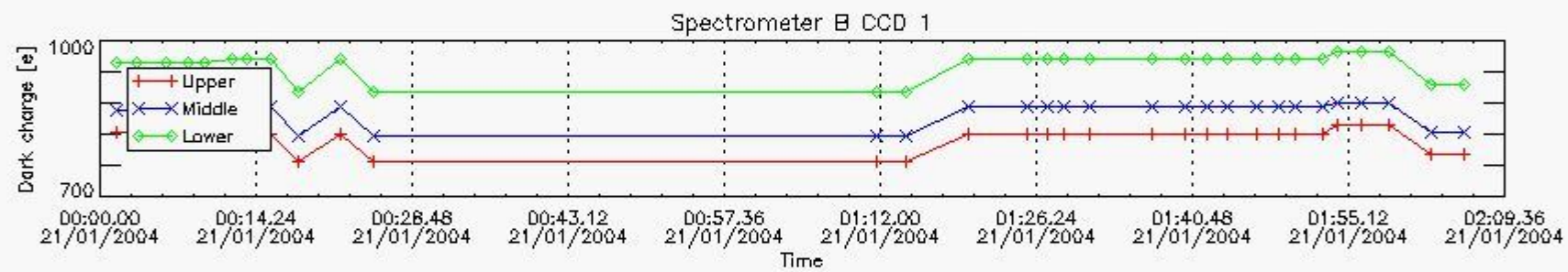
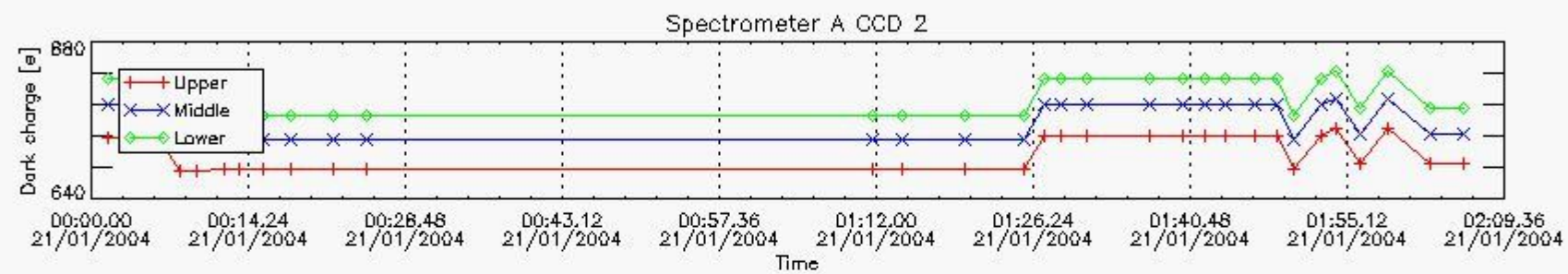
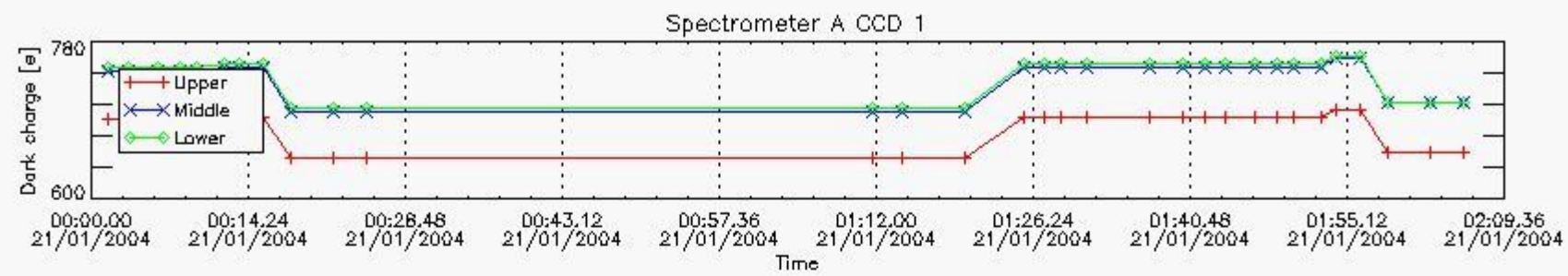
4. Overview of dark signal processing per product

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

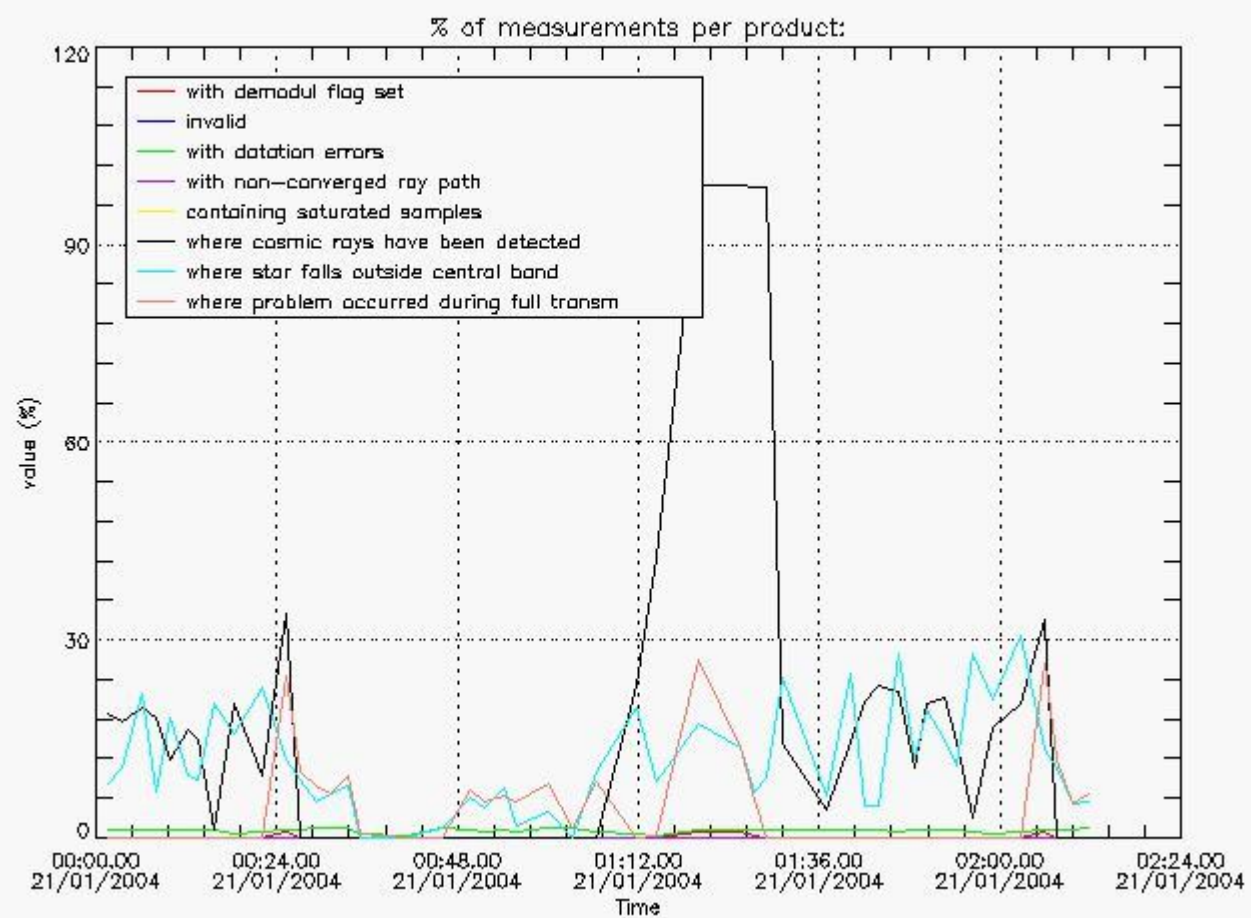


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 20.8333 % |
| 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



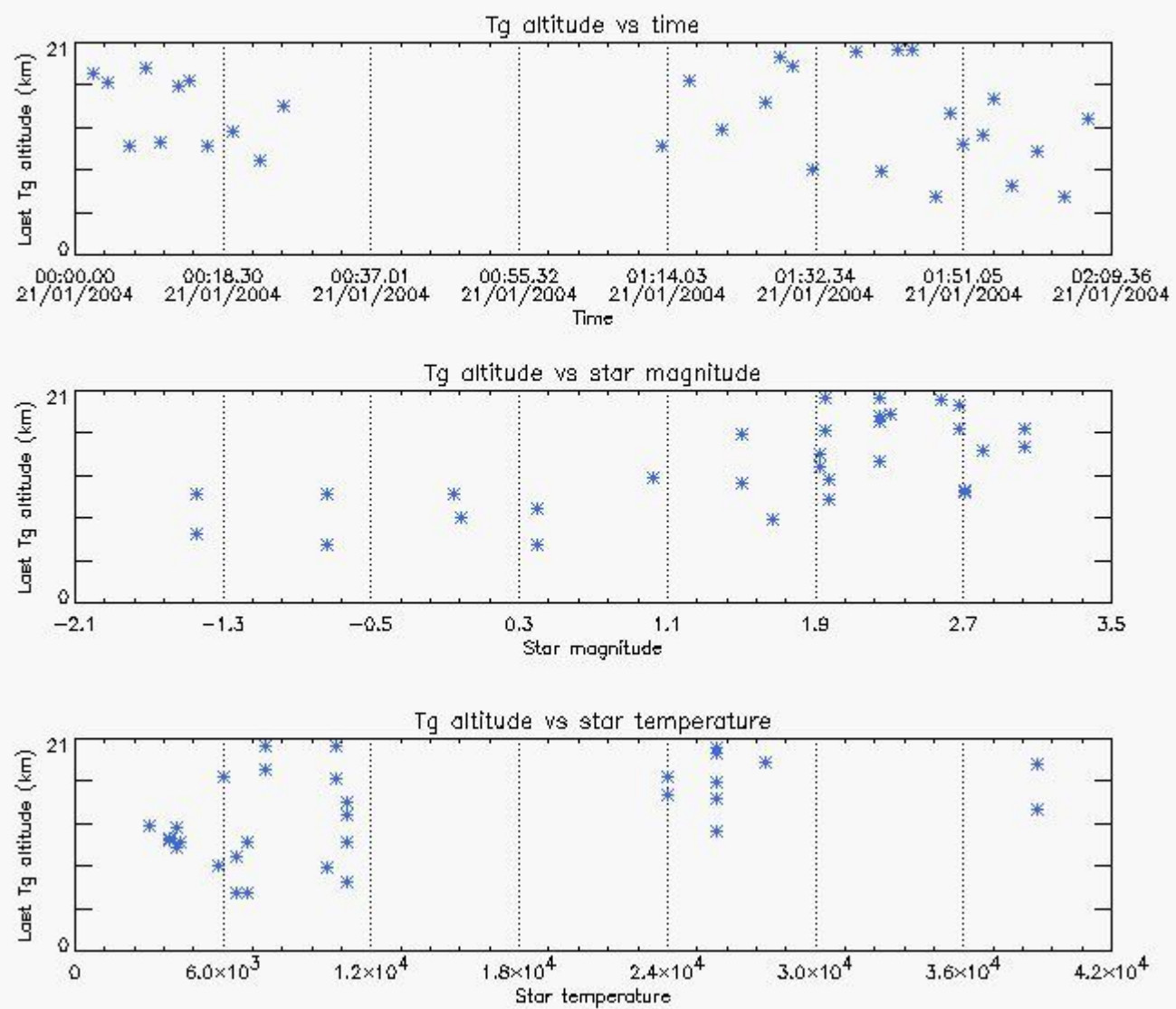
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT |
|-----------------|--------|--------|
| Mean: | 13.587 | 22.623 |
| St. deviation: | 4.4362 | 8.3426 |
| Maximum: | 20.327 | 52.035 |
| Minimum: | 5.6948 | 15.051 |
| Number of data: | 31.000 | 17.000 |

6.2 Plot for DARK limb products

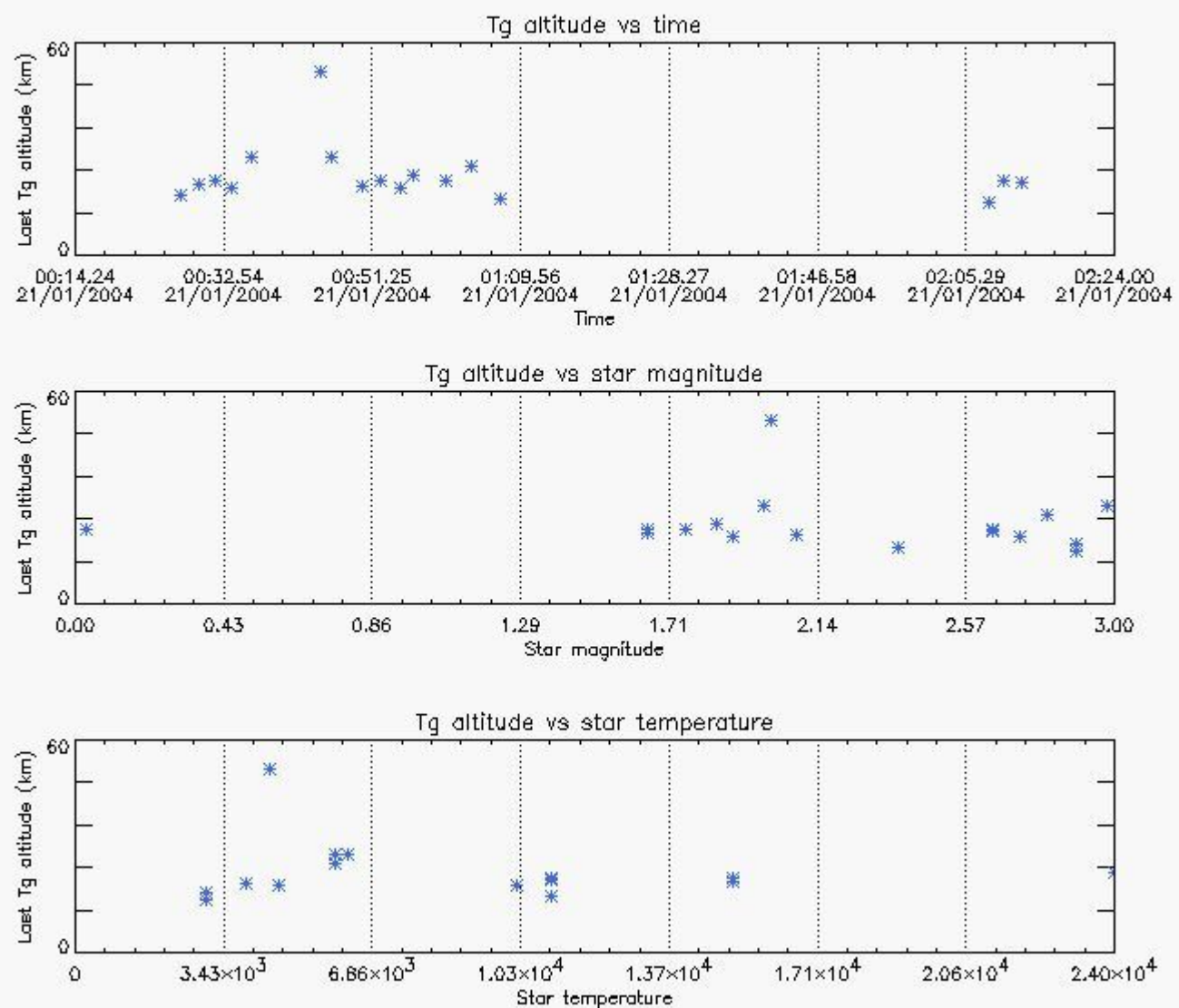
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



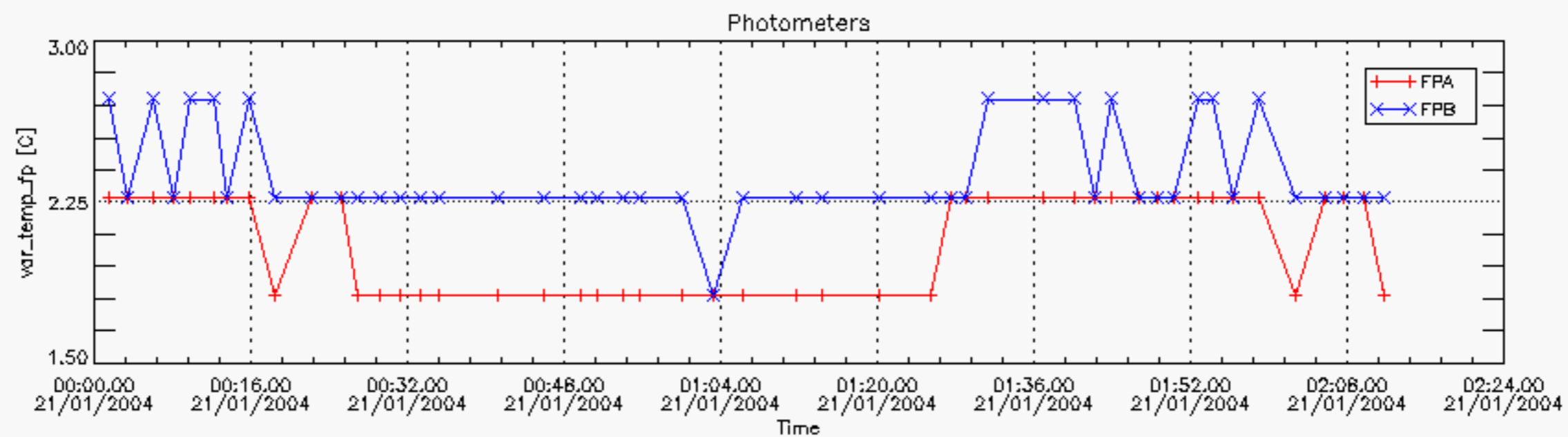
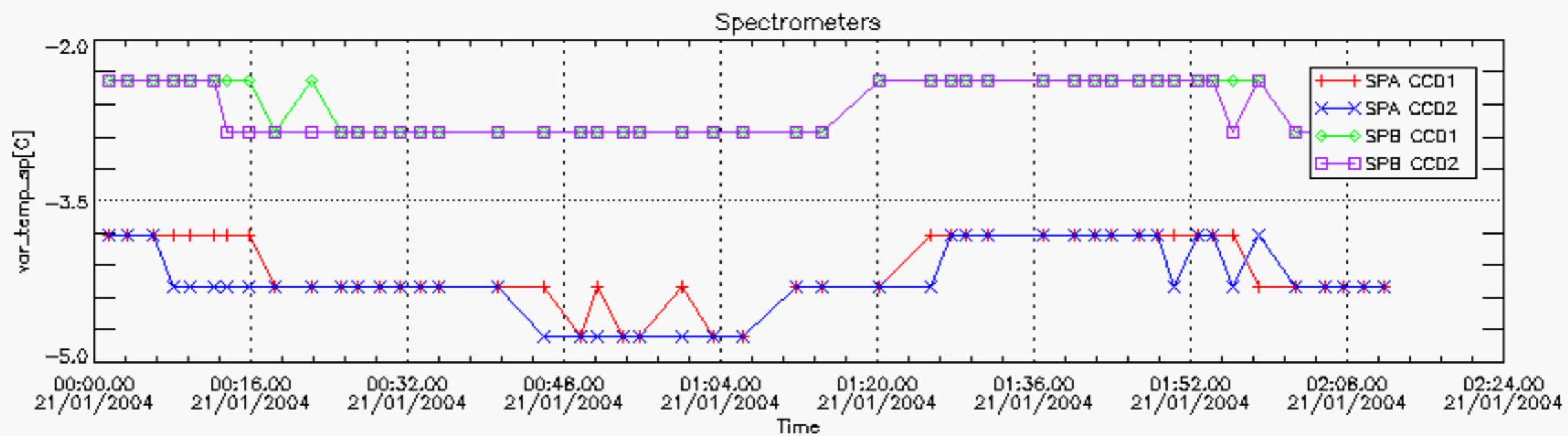
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

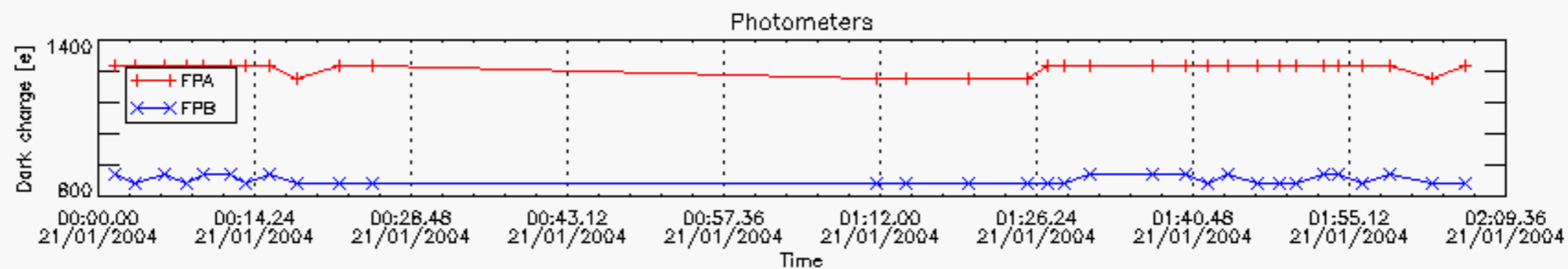
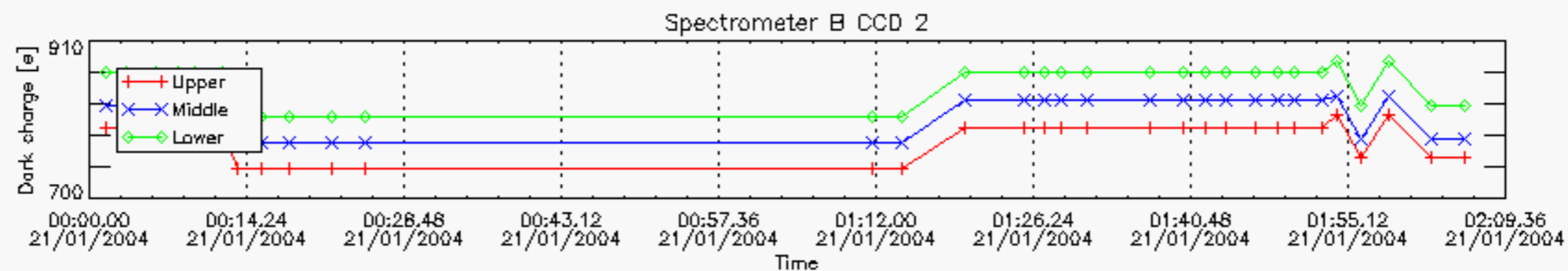
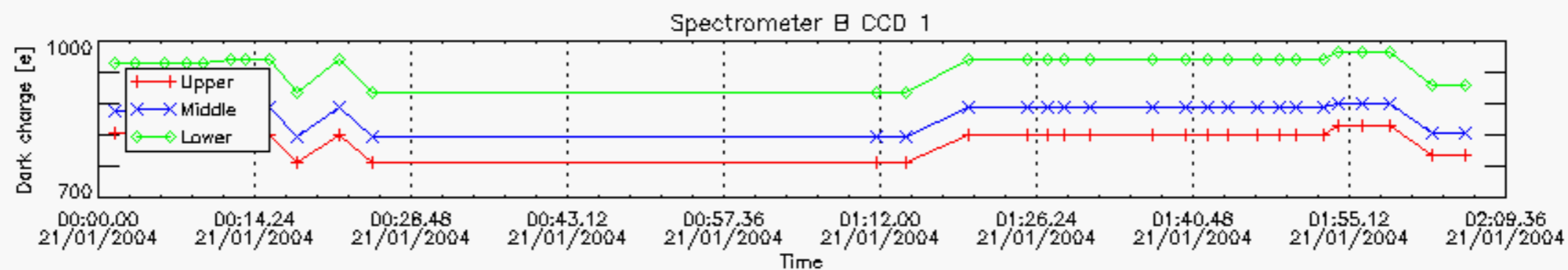
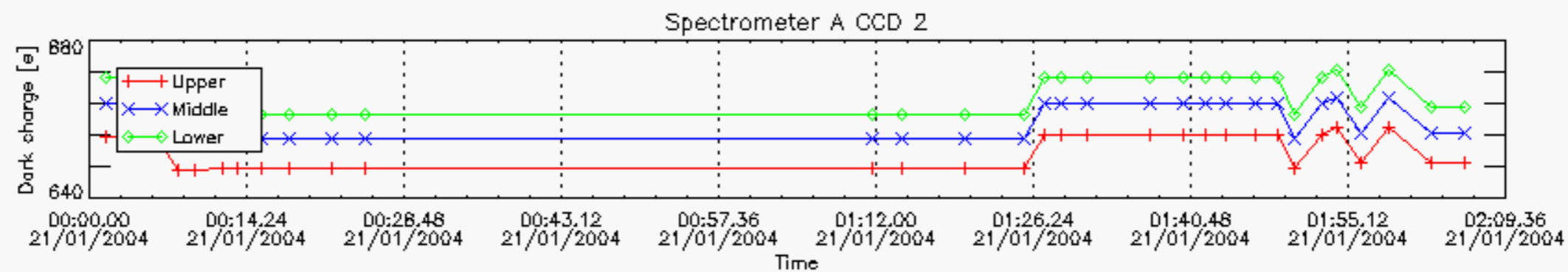
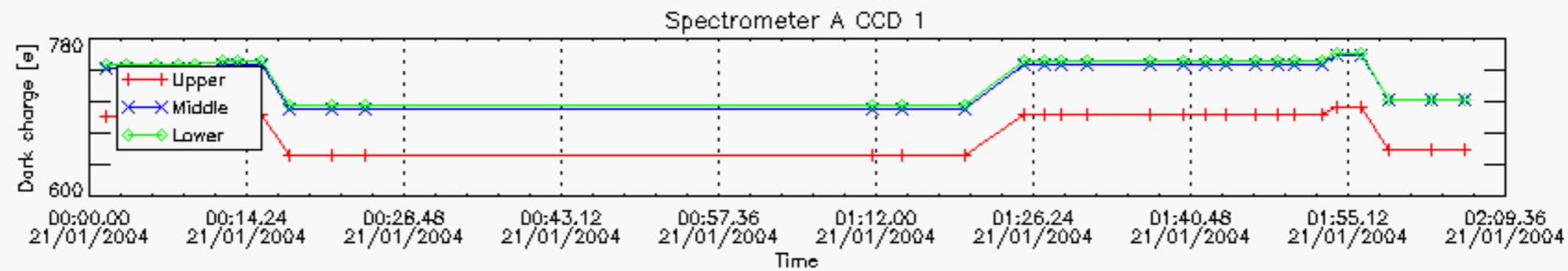
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

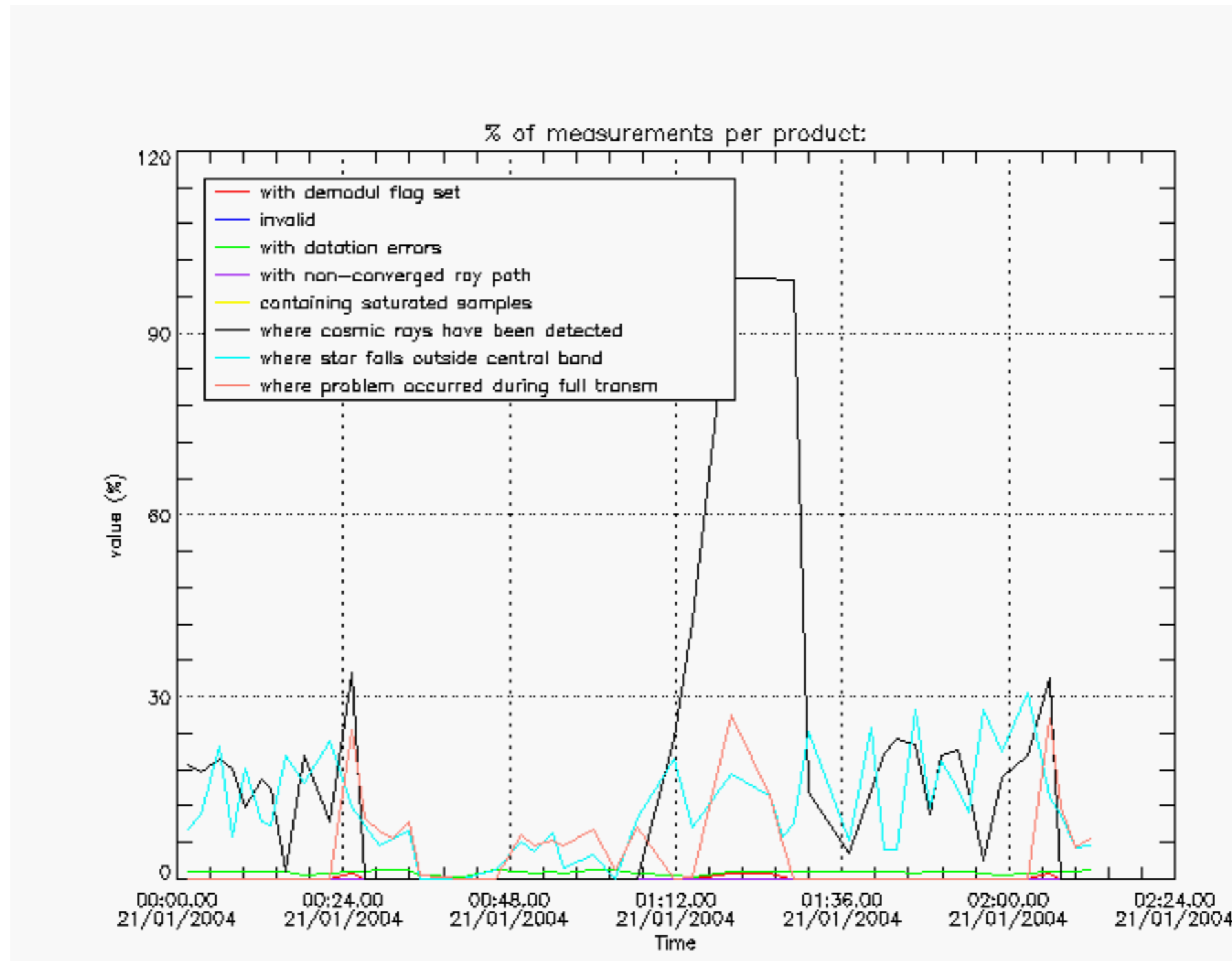
| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean: | 1461.6 | 1447.5 | 1461.6 | 1447.8 |
| St. deviation: | 4.9038 | 6.2412 | 6.0551 | 7.4319 |
| Maximum: | 1508.0 | 1494.0 | 1500.0 | 1490.0 |
| Minimum: | 1447.0 | 1427.0 | 1427.0 | 1399.0 |
| Number of data: | 40450. | 40450. | 24450. | 24450. |



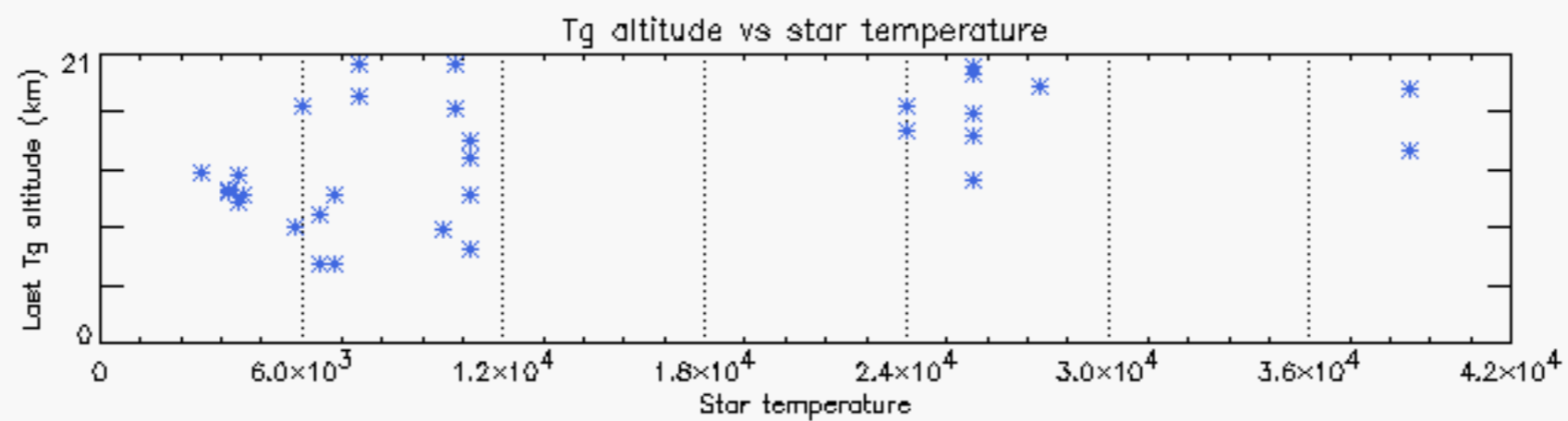
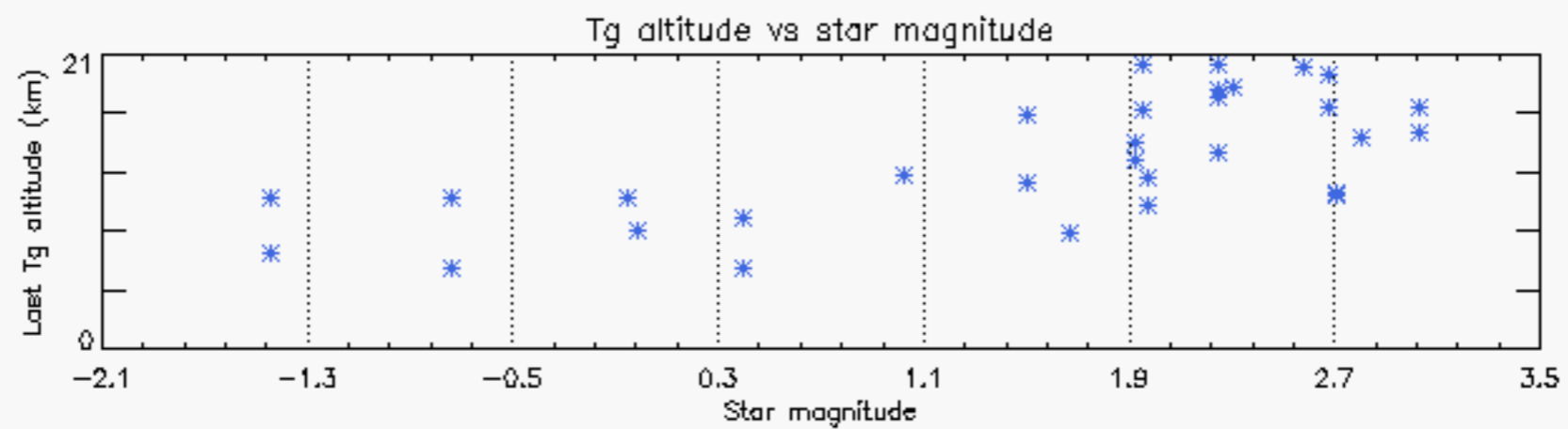
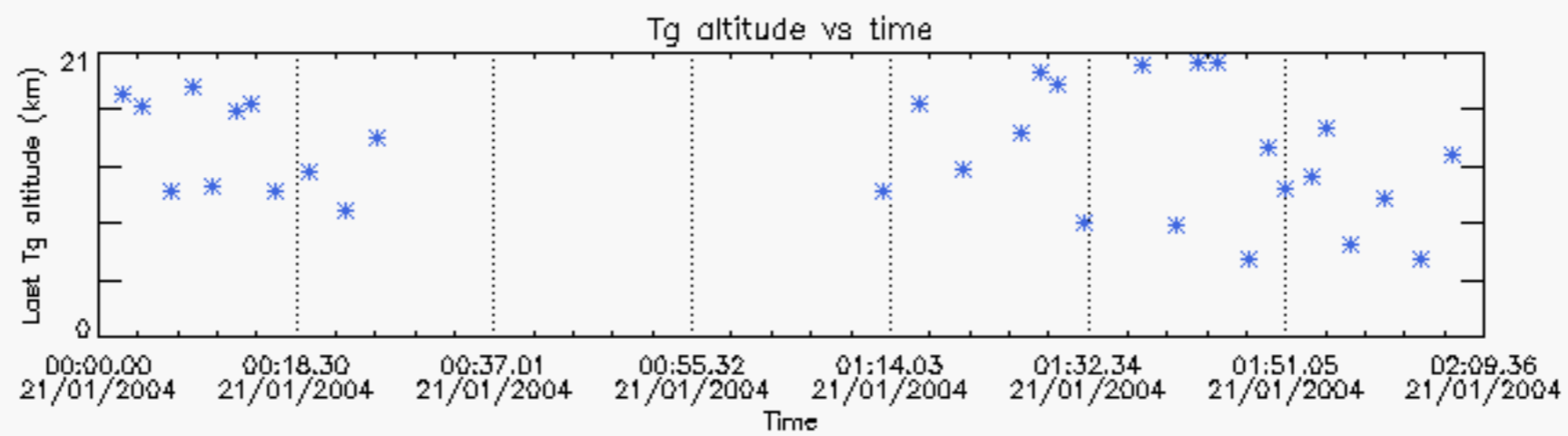




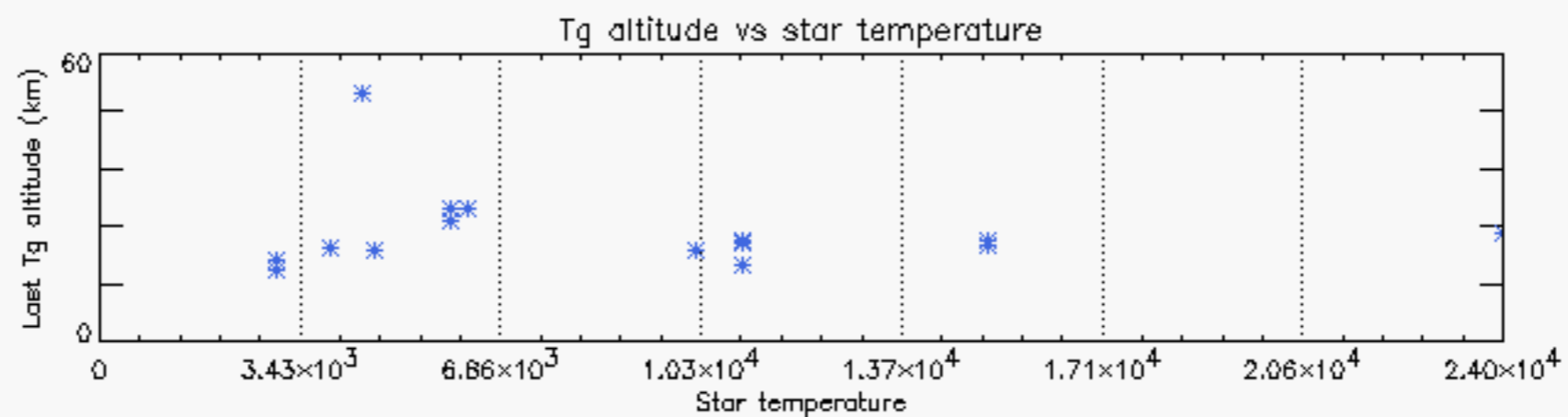
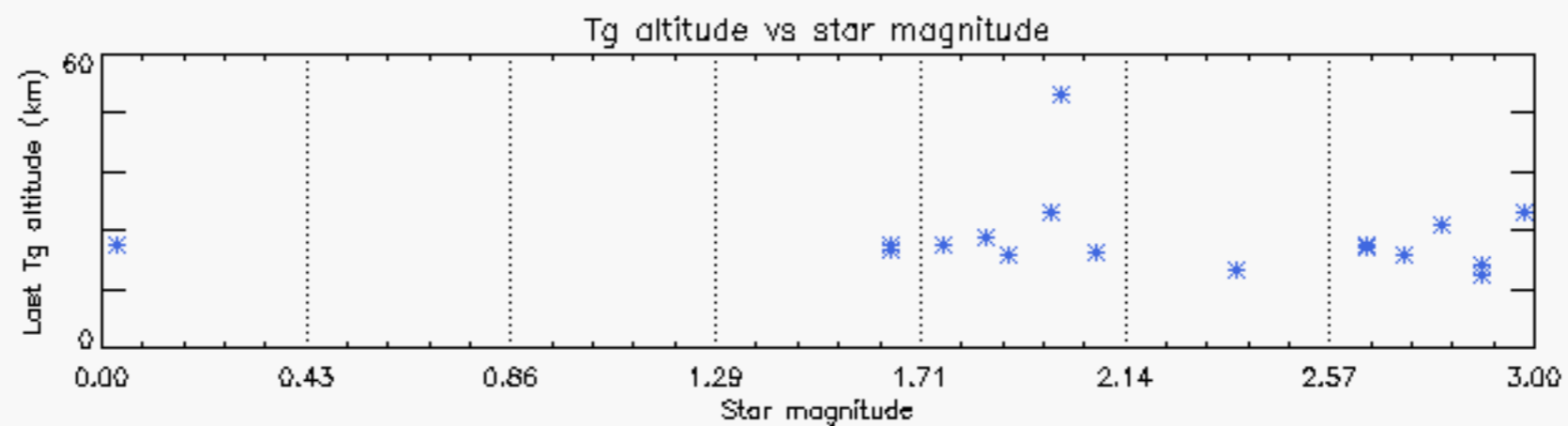
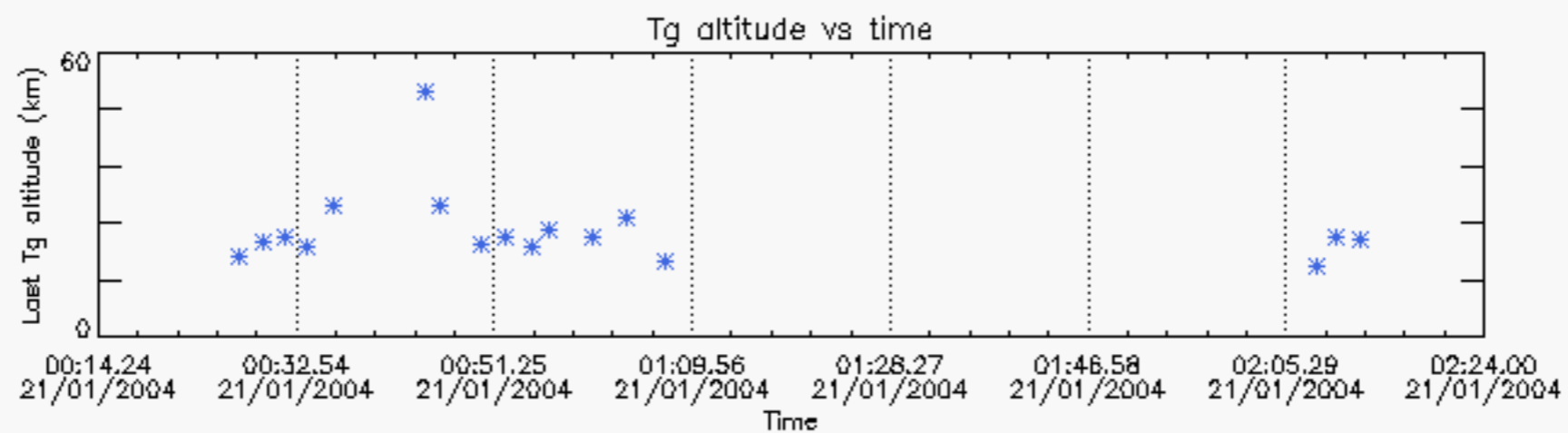




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040101_054855_000060682023_00034_09607_0545.N1

| | | | | | | | | | | | | | | |
|-----|----------|-------------|-----------|---------|---|-------|------|-----------|---|--------|------------|------|----|------|
| 1; | -4268.0; | 01-JAN-2004 | 05:48:55; | Dark | ; | 45.5; | 7; | 19Bet Ori | ; | 0.10; | 14000;occ; | 91; | 0; | 9607 |
| 2; | -4156.2; | 01-JAN-2004 | 05:50:47; | Dark | ; | 43.5; | 30; | 46Eps Ori | ; | 1.69; | 30000;occ; | 87; | 0; | 9607 |
| 3; | -3940.7; | 01-JAN-2004 | 05:54:22; | Dark | ; | 82.0; | 8; | 10Alp CMi | ; | 0.40; | 6500;occ; | 164; | 0; | 9607 |
| 4; | -3806.3; | 01-JAN-2004 | 05:56:37; | Dark | ; | 50.0; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 100; | 0; | 9607 |
| 5; | -3708.3; | 01-JAN-2004 | 05:58:15; | Bright; | | 47.0; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 94; | 0; | 9607 |
| 6; | -3565.2; | 01-JAN-2004 | 06:00:38; | Bright; | | 39.5; | 114; | 3Iot Aur | ; | 2.69; | 4600;occ; | 79; | 0; | 9607 |
| 7; | -3468.9; | 01-JAN-2004 | 06:02:14; | Bright; | | 38.0; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 76; | 0; | 9607 |
| 8; | -3344.2; | 01-JAN-2004 | 06:04:19; | Bright; | | 41.0; | 6; | 13Alp Aur | ; | 0.08; | 3400;occ; | 82; | 0; | 9607 |
| 9; | -3237.9; | 01-JAN-2004 | 06:06:05; | Bright; | | 38.0; | 35; | 33Alp Per | ; | 1.79; | 6250;occ; | 76; | 0; | 9607 |
| 10; | -3161.0; | 01-JAN-2004 | 06:07:22; | Bright; | | 38.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 76; | 0; | 9607 |
| 11; | -2613.9; | 01-JAN-2004 | 06:16:29; | Bright; | | 36.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 73; | 0; | 9607 |
| 12; | -2439.5; | 01-JAN-2004 | 06:19:24; | Bright; | | 51.0; | 36; | 50Alp UMa | ; | 1.80; | 6300;occ; | 102; | 0; | 9607 |
| 13; | -2196.7; | 01-JAN-2004 | 06:23:26; | Bright; | | 56.5; | 87; | 64Gam UMa | ; | 2.43; | 11000;occ; | 113; | 0; | 9607 |
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14;-2269.0; 08-JAN-2004 07:42:42; Bright; 56.5; 87; 64Gam UMa ; 2.43; 11000;occ; 113; 0; 9708
15;-2113.2; 08-JAN-2004 07:45:17; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0; 9708
16;-1973.9; 08-JAN-2004 07:47:37; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0; 9708
17;-1714.8; 08-JAN-2004 07:51:56; Bright; 71.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 142; 0; 9708
18;-1441.9; 08-JAN-2004 07:56:29; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0; 9708
19;-1313.8; 08-JAN-2004 07:58:37; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9708
20;-1147.7; 08-JAN-2004 08:01:23; Bright; 68.0; 111; 8Eta Boo ; 2.68; 6000;occ; 136; 0; 9708
21;-980.3; 08-JAN-2004 08:04:10; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0; 9708
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23;-652.2; 08-JAN-2004 08:09:38; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0; 9708
24;-319.5; 08-JAN-2004 08:15:11; Dark ; 80.0; 15; 67Alp Vir ; 0.98; 28000;occ; 160; 0; 9708
25;-144.4; 08-JAN-2004 08:18:06; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0; 9708
26; 32.0; 08-JAN-2004 08:21:03; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0; 9709
27; 221.1; 08-JAN-2004 08:24:12; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0; 9709
28; 339.5; 08-JAN-2004 08:26:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9709
29; 479.7; 08-JAN-2004 08:28:30; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9709
30; 580.2; 08-JAN-2004 08:30:11; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0; 9709
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32; 765.8; 08-JAN-2004 08:33:16; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0; 9709
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8;-3397.2; 08-JAN-2004 09:04:29; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0; 9709
9;-3259.3; 08-JAN-2004 09:06:47; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0; 9709
10;-3124.7; 08-JAN-2004 09:09:02; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0; 9709
11;-2613.4; 08-JAN-2004 09:17:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0; 9709
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17;-1715.1; 08-JAN-2004 09:32:31; Bright; 72.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 145; 0; 9709
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19;-1316.6; 08-JAN-2004 09:39:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0; 9709
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21;-980.6; 08-JAN-2004 09:44:46; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0; 9709
22;-793.3; 08-JAN-2004 09:47:53; Dark ; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0; 9709
23;-652.2; 08-JAN-2004 09:50:14; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0; 9709
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25;-144.3; 08-JAN-2004 09:58:42; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0; 9709
26; 32.0; 08-JAN-2004 10:01:38; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0; 9710
27; 251.1; 08-JAN-2004 10:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9710
28; 363.9; 08-JAN-2004 10:07:10; Dark ; 96.0; 171; 2Eps Crv ; 3.00; 4250;occ; 192; 0; 9710
29; 580.6; 08-JAN-2004 10:10:47; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0; 9710
30; 680.7; 08-JAN-2004 10:12:27; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0; 9710
31; 766.2; 08-JAN-2004 10:13:53; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0; 9710
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33; 1092.9; 08-JAN-2004 10:19:19; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0; 9710
34; 1204.9; 08-JAN-2004 10:21:11; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0; 9710
35; 1364.9; 08-JAN-2004 10:23:51; Dark ; 47.0; 23; 21Eps Cma ; 1.50; 26000;occ; 94; 0; 9710
36; 1453.7; 08-JAN-2004 10:25:20; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0; 9710
37; 1593.0; 08-JAN-2004 10:27:39; Dark ; 47.5; 1; 9Alp Cma ;-1.44; 11000;occ; 95; 0; 9710

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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040108_184048_000058492023_00142_09715_0621.N1

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|-----|----------|-------------|-----------|--------|---|-------|------|-----------|---|--------|--------|------|------|----|------|
| 1; | -5034.5; | 08-JAN-2004 | 18:40:48; | Dark | ; | 50.5; | 2; | Alp Car | ; | -0.74; | 7000; | occ; | 101; | 0; | 9715 |
| 2; | -4941.2; | 08-JAN-2004 | 18:42:21; | Dark | ; | 49.0; | 70; | Zet Pup | ; | 2.25; | 39000; | occ; | 98; | 0; | 9715 |
| 3; | -4829.7; | 08-JAN-2004 | 18:44:12; | Dark | ; | 41.5; | 117; | Pi Pup | ; | 2.71; | 3800; | occ; | 83; | 0; | 9715 |
| 4; | -4670.1; | 08-JAN-2004 | 18:46:52; | Dark | ; | 47.0; | 23; | 21Eps CMa | ; | 1.50; | 26000; | occ; | 94; | 0; | 9715 |
| 5; | -4582.1; | 08-JAN-2004 | 18:48:20; | Dark | ; | 43.5; | 179; | 240mi2CMa | ; | 3.03; | 24000; | occ; | 87; | 0; | 9715 |
| 6; | -4442.9; | 08-JAN-2004 | 18:50:39; | Dark | ; | 51.0; | 1; | 9Alp CMa | ; | -1.44; | 11000; | occ; | 102; | 0; | 9715 |
| 7; | -4253.0; | 08-JAN-2004 | 18:53:49; | Dark | ; | 52.0; | 7; | 19Bet Ori | ; | 0.10; | 14000; | occ; | 104; | 0; | 9715 |
| 8; | -4147.8; | 08-JAN-2004 | 18:55:34; | Dark | ; | 46.0; | 30; | 46Eps Ori | ; | 1.69; | 30000; | occ; | 92; | 0; | 9715 |
| 9; | -3993.8; | 08-JAN-2004 | 18:58:08; | Dark | ; | 61.0; | 8; | 10Alp CMi | ; | 0.40; | 6500; | occ; | 122; | 0; | 9715 |
| 10; | -3835.3; | 08-JAN-2004 | 19:00:47; | Dark | ; | 48.5; | 44; | 24Gam Gem | ; | 1.93; | 11000; | occ; | 97; | 0; | 9715 |
| 11; | -3734.9; | 08-JAN-2004 | 19:02:27; | Bright | ; | 47.0; | 151; | 13Mu Gem | ; | 2.89; | 3000; | occ; | 94; | 0; | 9715 |
| 12; | -3642.0; | 08-JAN-2004 | 19:04:00; | Bright | ; | 38.5; | 28; | 12Bet Tau | ; | 1.65; | 15200; | occ; | 77; | 0; | 9715 |
| 13; | -3556.7; | 08-JAN-2004 | 19:05:25; | Bright | ; | 39.5; | 114; | 3Iot Aur | ; | 2.69; | 4600; | occ; | 79; | 0; | 9715 |
| 14; | -3461.0; | 08-JAN-2004 | 19:07:01; | Bright | ; | 51.0; | 24; | 66Alp Gem | ; | 1.58; | 10200; | occ; | 102; | 0; | 9715 |
| 15; | -3357.2; | 08-JAN-2004 | 19:08:45; | Bright | ; | 41.0; | 42; | 34Bet Aur | ; | 1.90; | 10200; | occ; | 82; | 0; | 9715 |
| 16; | -3257.5; | 08-JAN-2004 | 19:10:25; | Bright | ; | 37.0; | 175; | 39Del Per | ; | 3.01; | 19400; | occ; | 74; | 0; | 9715 |
| 17; | -3122.3; | 08-JAN-2004 | 19:12:40; | Bright | ; | 37.5; | 160; | 23Gam Per | ; | 2.93; | 4700; | occ; | 75; | 0; | 9715 |
| 18; | -2613.4; | 08-JAN-2004 | 19:21:09; | Bright | ; | 37.0; | 49; | 1Alp UMi | ; | 1.99; | 6300; | occ; | 74; | 0; | 9715 |
| 19; | -2512.0; | 08-JAN-2004 | 19:22:50; | Bright | ; | 46.0; | 36; | 50Alp UMa | ; | 1.80; | 6300; | occ; | 92; | 0; | 9715 |
| 20; | -2359.9; | 08-JAN-2004 | 19:25:22; | Bright | ; | 41.0; | 60; | 7Bet UMi | ; | 2.08; | 3950; | occ; | 82; | 0; | 9715 |
| 21; | -2174.1; | 08-JAN-2004 | 19:28:28; | Bright | ; | 50.5; | 32; | 77Eps UMa | ; | 1.76; | 11000; | occ; | 101; | 0; | 9715 |
| 22; | -1972.9; | 08-JAN-2004 | 19:31:49; | Bright | ; | 38.0; | 130; | 23Bet Dra | ; | 2.80; | 5800; | occ; | 76; | 0; | 9715 |
| 23; | -1716.4; | 08-JAN-2004 | 19:36:06; | Bright | ; | 72.5; | 152; | 12Alp2CVn | ; | 2.89; | 11000; | occ; | 145; | 0; | 9715 |
| 24; | -1440.2; | 08-JAN-2004 | 19:40:42; | Bright | ; | 51.0; | 83; | | ; | 2.38; | 11000; | occ; | 102; | 0; | 9715 |
| 25; | -1313.8; | 08-JAN-2004 | 19:42:48; | Bright | ; | 36.5; | 59; | 55Alp Oph | ; | 2.08; | 8900; | occ; | 73; | 0; | 9715 |
| 26; | -1142.3; | 08-JAN-2004 | 19:45:40; | Bright | ; | 73.0; | 111; | 8Eta Boo | ; | 2.68; | 6000; | occ; | 146; | 0; | 9715 |
| 27; | -978.7; | 08-JAN-2004 | 19:48:23; | Bright | ; | 39.0; | 120; | 1Del Oph | ; | 2.73; | 3200; | occ; | 78; | 0; | 9715 |
| 28; | -789.1; | 08-JAN-2004 | 19:51:33; | Dark | ; | 46.0; | 104; | 27Bet Lib | ; | 2.61; | 13100; | occ; | 92; | 0; | 9715 |
| 29; | -650.4; | 08-JAN-2004 | 19:53:52; | Dark | ; | 46.5; | 80; | 7Del Sco | ; | 2.32; | 30000; | occ; | 93; | 0; | 9715 |
| 30; | -305.3; | 08-JAN-2004 | 19:59:37; | Dark | ; | 82.5; | 15; | 67Alp Vir | ; | 0.98; | 28000; | occ; | 165; | 0; | 9715 |
| 31; | -140.9; | 08-JAN-2004 | 20:02:21; | Dark | ; | 44.0; | 78; | Alp Lup | ; | 2.30; | 28000; | occ; | 88; | 0; | 9715 |
| 32; | 34.3; | 08-JAN-2004 | 20:05:16; | Dark | ; | 53.0; | 4; | Alp1Cen | ; | -0.01; | 5800; | occ; | 106; | 0; | 9716 |
| 33; | 225.4; | 08-JAN-2004 | 20:08:27; | Dark | ; | 42.5; | 20; | Bet Cru | ; | 1.25; | 30000; | occ; | 85; | 0; | 9716 |
| 34; | 362.4; | 08-JAN-2004 | 20:10:44; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0; | occ; | 119; | 0; | 9716 |
| 35; | 483.3; | 08-JAN-2004 | 20:12:45; | Dark | ; | 39.0; | 124; | The Car | ; | 2.76; | 30000; | occ; | 78; | 0; | 9716 |
| 36; | 582.9; | 08-JAN-2004 | 20:14:25; | Dark | ; | 40.0; | 29; | Bet Car | ; | 1.67; | 10200; | occ; | 80; | 0; | 9716 |
| 37; | 683.8; | 08-JAN-2004 | 20:16:06; | Dark | ; | 41.5; | 71; | Iot Car | ; | 2.25; | 7700; | occ; | 83; | 0; | 9716 |
| 38; | 768.6; | 08-JAN-2004 | 20:17:31; | Dark | ; | 46.5; | 41; | Eps Car | ; | 1.86; | 4100; | occ; | 93; | 0; | 9716 |

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| | | | | | | | | | | | | | | | |
|-----|----------|-------------|-----------|--------|---|-------|------|-----------|---|--------|--------|------|------|----|------|
| 1; | -5033.6; | 08-JAN-2004 | 20:21:24; | Dark | ; | 48.5; | 2; | Alp Car | ; | -0.74; | 7000; | occ; | 97; | 0; | 9716 |
| 2; | -4940.4; | 08-JAN-2004 | 20:22:57; | Dark | ; | 48.0; | 70; | Zet Pup | ; | 2.25; | 39000; | occ; | 96; | 0; | 9716 |
| 3; | -4829.1; | 08-JAN-2004 | 20:24:49; | Dark | ; | 47.5; | 117; | Pi Pup | ; | 2.71; | 3800; | occ; | 95; | 0; | 9716 |
| 4; | -4669.5; | 08-JAN-2004 | 20:27:28; | Dark | ; | 49.5; | 23; | 21Eps CMa | ; | 1.50; | 26000; | occ; | 99; | 0; | 9716 |
| 5; | -4581.5; | 08-JAN-2004 | 20:28:56; | Dark | ; | 44.5; | 179; | 240mi2CMa | ; | 3.03; | 24000; | occ; | 89; | 0; | 9716 |
| 6; | -4442.7; | 08-JAN-2004 | 20:31:15; | Dark | ; | 48.5; | 1; | 9Alp CMa | ; | -1.44; | 11000; | occ; | 97; | 0; | 9716 |
| 7; | -4252.2; | 08-JAN-2004 | 20:34:26; | Dark | ; | 49.5; | 7; | 19Bet Ori | ; | 0.10; | 14000; | occ; | 99; | 0; | 9716 |
| 8; | -4147.0; | 08-JAN-2004 | 20:36:11; | Dark | ; | 44.0; | 30; | 46Eps Ori | ; | 1.69; | 30000; | occ; | 88; | 0; | 9716 |
| 9; | -3994.7; | 08-JAN-2004 | 20:38:43; | Dark | ; | 64.5; | 8; | 10Alp CMi | ; | 0.40; | 6500; | occ; | 129; | 0; | 9716 |
| 10; | -3835.4; | 08-JAN-2004 | 20:41:22; | Dark | ; | 47.0; | 44; | 24Gam Gem | ; | 1.93; | 11000; | occ; | 94; | 0; | 9716 |
| 11; | -3734.7; | 08-JAN-2004 | 20:43:03; | Bright | ; | 44.0; | 151; | 13Mu Gem | ; | 2.89; | 3000; | occ; | 88; | 0; | 9716 |
| 12; | -3641.7; | 08-JAN-2004 | 20:44:36; | Bright | ; | 37.5; | 28; | 12Bet Tau | ; | 1.65; | 15200; | occ; | 75; | 0; | 9716 |
| 13; | -3556.3; | 08-JAN-2004 | 20:46:02; | Bright | ; | 38.0; | 114; | 3Iot Aur | ; | 2.69; | 4600; | occ; | 76; | 0; | 9716 |
| 14; | -3461.9; | 08-JAN-2004 | 20:47:36; | Bright | ; | 48.5; | 24; | 66Alp Gem | ; | 1.58; | 10200; | occ; | 97; | 0; | 9716 |
| 15; | -3357.0; | 08-JAN-2004 | 20:49:21; | Bright | ; | 38.5; | 42; | 34Bet Aur | ; | 1.90; | 10200; | occ; | 77; | 0; | 9716 |
| 16; | -3257.1; | 08-JAN-2004 | 20:51:01; | Bright | ; | 37.0; | 175; | 39Del Per | ; | 3.01; | 19400; | occ; | 74; | 0; | 9716 |
| 17; | -3121.8; | 08-JAN-2004 | 20:53:16; | Bright | ; | 38.5; | 160; | 23Gam Per | ; | 2.93; | 4700; | occ; | 77; | 0; | 9716 |
| 18; | -2613.2; | 08-JAN-2004 | 21:01:45; | Bright | ; | 36.0; | 49; | 1Alp UMi | ; | 1.99; | 6300; | occ; | 72; | 0; | 9716 |
| 19; | -2512.4; | 08-JAN-2004 | 21:03:25; | Bright | ; | 51.0; | 36; | 50Alp UMa | ; | 1.80; | 6300; | occ; | 102; | 0; | 9716 |
| 20; | -2359.4; | 08-JAN-2004 | 21:05:58; | Bright | ; | 40.0; | 60; | 7Bet UMi | ; | 2.08; | 3950; | occ; | 80; | 0; | 9716 |
| 21; | -2174.4; | 08-JAN-2004 | 21:09:04; | Bright | ; | 50.0; | 32; | 77Eps UMa | ; | 1.76; | 11000; | occ; | 100; | 0; | 9716 |
| 22; | -1972.4; | 08-JAN-2004 | 21:12:25; | Bright | ; | 52.0; | 130; | 23Bet Dra | ; | 2.80; | 5800; | occ; | 104; | 0; | 9716 |
| 23; | -1717.0; | 08-JAN-2004 | 21:16:41; | Bright | ; | 72.5; | 152; | 12Alp2CVn | ; | 2.89; | 11000; | occ; | 145; | 0; | 9716 |
| 24; | -1440.6; | 08-JAN-2004 | 21:21:17; | Bright | ; | 53.0; | 83; | | ; | 2.38; | 11000; | occ; | 106; | 0; | 9716 |
| 25; | -1313.6; | 08-JAN-2004 | 21:23:24; | Bright | ; | 36.5; | 59; | 55Alp Oph | ; | 2.08; | 8900; | occ; | 73; | 0; | 9716 |
| 26; | -1141.2; | 08-JAN-2004 | 21:26:17; | Bright | ; | 71.0; | 111; | 8Eta Boo | ; | 2.68; | 6000; | occ; | 142; | 0; | 9716 |
| 27; | -978.0; | 08-JAN-2004 | 21:29:00; | Bright | ; | 39.0; | 120; | 1Del Oph | ; | 2.73; | 3200; | occ; | 78; | 0; | 9716 |
| 28; | -788.6; | 08-JAN-2004 | 21:32:09; | Dark | ; | 47.0; | 104; | 27Bet Lib | ; | 2.61; | 13100; | occ; | 94; | 0; | 9716 |

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29; -649.5; 08-JAN-2004 21:34:28; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0; 9716
30; -303.1; 08-JAN-2004 21:40:15; Dark ; 80.5; 15; 67Alp Vir ; 0.98; 28000;occ; 161; 0; 9716
31; -140.4; 08-JAN-2004 21:42:57; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0; 9716
32; 34.7; 08-JAN-2004 21:45:53; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0; 9717
33; 226.1; 08-JAN-2004 21:49:04; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0; 9717
34; 365.8; 08-JAN-2004 21:51:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9717
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| 27; | -245.1; | 19-JAN-2004 | 15:53:22; | Dark | ; | 39.0; | 131; | Gam | Lup | ; | 2.80; | 26000; | occ; | 78; | 0; | 9870 |
| 28; | -133.8; | 19-JAN-2004 | 15:55:14; | Dark | ; | 42.5; | 109; | Bet | Lup | ; | 2.68; | 26000; | occ; | 85; | 0; | 9870 |
| 29; | -43.0; | 19-JAN-2004 | 15:56:44; | Dark | ; | 43.0; | 78; | Alp | Lup | ; | 2.30; | 28000; | occ; | 86; | 0; | 9870 |
| 30; | 298.9; | 19-JAN-2004 | 16:02:26; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 9871 |
| 31; | 437.8; | 19-JAN-2004 | 16:04:45; | Dark | ; | 47.0; | 99; | Del | Cen | ; | 2.58; | 26000; | occ; | 94; | 0; | 9871 |
| 32; | 631.8; | 19-JAN-2004 | 16:07:59; | Dark | ; | 39.5; | 29; | Bet | Car | ; | 1.67; | 10200; | occ; | 79; | 0; | 9871 |
| 33; | 754.3; | 19-JAN-2004 | 16:10:02; | Dark | ; | 45.5; | 71; | Iot | Car | ; | 2.25; | 7700; | occ; | 91; | 0; | 9871 |
| 34; | 864.9; | 19-JAN-2004 | 16:11:52; | Dark | ; | 40.5; | 46; | Del | Vel | ; | 1.95; | 10600; | occ; | 81; | 0; | 9871 |
| 35; | 1030.9; | 19-JAN-2004 | 16:14:38; | Dark | ; | 46.5; | 2; | Alp | Car | ; | -0.74; | 7000; | occ; | 93; | 0; | 9871 |
| 36; | 1153.4; | 19-JAN-2004 | 16:16:41; | Dark | ; | 45.0; | 70; | Zet | Pup | ; | 2.25; | 39000; | occ; | 90; | 0; | 9871 |
| 37; | 1248.4; | 19-JAN-2004 | 16:18:16; | Dark | ; | 45.0; | 117; | Pi | Pup | ; | 2.71; | 3800; | occ; | 90; | 0; | 9871 |
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| 2; | -4636.8; | 19-JAN-2004 | 16:20:47; | Dark | ; | 45.0; | 23; | 21Eps | CMA | ; | 1.50; | 26000; | occ; | 90; | 0; | 9871 |
| 3; | -4552.3; | 19-JAN-2004 | 16:22:11; | Dark | ; | 42.5; | 179; | 240mi2 | CMA | ; | 3.03; | 24000; | occ; | 85; | 0; | 9871 |
| 4; | -4420.8; | 19-JAN-2004 | 16:24:23; | Dark | ; | 49.0; | 1; | 9Alp | CMA | ; | -1.44; | 11000; | occ; | 98; | 0; | 9871 |
| 5; | -4270.4; | 19-JAN-2004 | 16:26:53; | Dark | ; | 43.0; | 56; | 53Kap | Ori | ; | 2.07; | 30000; | occ; | 86; | 0; | 9871 |
| 6; | -4199.8; | 19-JAN-2004 | 16:28:04; | Dark | ; | 41.0; | 125; | 44Iot | Ori | ; | 2.77; | 30000; | occ; | 82; | 0; | 9871 |
| 7; | -4121.5; | 19-JAN-2004 | 16:29:22; | Dark | ; | 41.0; | 30; | 46Eps | Ori | ; | 1.69; | 30000; | occ; | 82; | 0; | 9871 |
| 8; | -3992.0; | 19-JAN-2004 | 16:31:31; | Dark | ; | 52.0; | 14; | 58Alp | Ori | ; | 0.87; | 3000; | occ; | 104; | 0; | 9871 |
| 9; | -3850.6; | 19-JAN-2004 | 16:33:53; | Dark | ; | 51.5; | 44; | 24Gam | Gem | ; | 1.93; | 11000; | occ; | 103; | 0; | 9871 |
| 10; | -3746.1; | 19-JAN-2004 | 16:35:37; | Bright; | ; | 41.5; | 151; | 13Mu | Gem | ; | 2.89; | 3000; | occ; | 83; | 0; | 9871 |
| 11; | -3623.1; | 19-JAN-2004 | 16:37:40; | Bright; | ; | 38.0; | 28; | 12Bet | Tau | ; | 1.65; | 15200; | occ; | 76; | 0; | 9871 |
| 12; | -3495.6; | 19-JAN-2004 | 16:39:48; | Bright; | ; | 37.0; | 107; | 37The | Aur | ; | 2.65; | 11000; | occ; | 74; | 0; | 9871 |
| 13; | -3365.3; | 19-JAN-2004 | 16:41:58; | Bright; | ; | 37.5; | 42; | 34Bet | Aur | ; | 1.90; | 10200; | occ; | 75; | 0; | 9871 |
| 14; | -3216.3; | 19-JAN-2004 | 16:44:27; | Bright; | ; | 88.0; | 166; | 17Eps | Leo | ; | 2.98; | 6000; | occ; | 176; | 0; | 9871 |
| 15; | -2611.7; | 19-JAN-2004 | 16:54:32; | Bright; | ; | 38.0; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 76; | 0; | 9871 |
| 16; | -2383.9; | 19-JAN-2004 | 16:58:20; | Bright; | ; | 40.5; | 60; | 7Bet | UMi | ; | 2.08; | 3950; | occ; | 81; | 0; | 9871 |
| 17; | -2267.9; | 19-JAN-2004 | 17:00:16; | Bright; | ; | 54.0; | 32; | 77Eps | UMA | ; | 1.76; | 11000; | occ; | 108; | 0; | 9871 |
| 18; | -2118.4; | 19-JAN-2004 | 17:02:45; | Bright; | ; | 40.5; | 119; | 14Eta | Dra | ; | 2.73; | 4700; | occ; | 81; | 0; | 9871 |
| 19; | -2014.6; | 19-JAN-2004 | 17:04:29; | Bright; | ; | 56.0; | 39; | 85Eta | UMA | ; | 1.85; | 24000; | occ; | 112; | 0; | 9871 |
| 20; | -1762.5; | 19-JAN-2004 | 17:08:41; | Bright; | ; | 35.0; | 5; | 3Alp | Lyr | ; | 0.03; | 11000; | occ; | 70; | 0; | 9871 |
| 21; | -1576.9; | 19-JAN-2004 | 17:11:47; | Bright; | ; | 38.0; | 133; | 40Zet | Her | ; | 2.81; | 6000; | occ; | 76; | 0; | 9871 |
| 22; | -1394.7; | 19-JAN-2004 | 17:14:49; | Bright; | ; | 61.0; | 83; | | | ; | 2.38; | 11000; | occ; | 122; | 0; | 9871 |
| 23; | -1089.6; | 19-JAN-2004 | 17:19:54; | Dark | ; | 120.0; | 3; | 16Alp | Boo | ; | -0.05; | 4250; | occ; | 240; | 0; | 9871 |
| 24; | -949.0; | 19-JAN-2004 | 17:22:14; | Dark | ; | 124.0; | 111; | 8Eta | Boo | ; | 2.68; | 6000; | occ; | 248; | 0; | 9871 |
| 25; | -672.4; | 19-JAN-2004 | 17:26:51; | Dark | ; | 52.0; | 104; | 27Bet | Lib | ; | 2.61; | 13100; | occ; | 104; | 0; | 9871 |
| 26; | -567.7; | 19-JAN-2004 | 17:28:36; | Dark | ; | 45.5; | 16; | 21Alp | Sco | ; | 1.02; | 3000; | occ; | 91; | 0; | 9871 |
| 27; | -472.5; | 19-JAN-2004 | 17:30:11; | Dark | ; | 43.0; | 75; | 26Eps | Sco | ; | 2.29; | 4250; | occ; | 86; | 0; | 9871 |
| 28; | -244.5; | 19-JAN-2004 | 17:33:59; | Dark | ; | 41.0; | 131; | Gam | Lup | ; | 2.80; | 26000; | occ; | 82; | 0; | 9871 |
| 29; | -132.7; | 19-JAN-2004 | 17:35:51; | Dark | ; | 43.0; | 109; | Bet | Lup | ; | 2.68; | 26000; | occ; | 86; | 0; | 9871 |
| 30; | -42.3; | 19-JAN-2004 | 17:37:21; | Dark | ; | 42.0; | 78; | Alp | Lup | ; | 2.30; | 28000; | occ; | 84; | 0; | 9871 |

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35; 865.4; 19-JAN-2004 17:52:29; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0; 9872
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23;-2015.8; 19-JAN-2004 20:25:40; Bright; 55.5; 39; 85Eta UMa ; 1.85; 24000;occ; 111; 0; 9873
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37; 631.7; 19-JAN-2004 21:09:47; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0; 9874
38; 754.9; 19-JAN-2004 21:11:50; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9874
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16;-1575.1; 20-JAN-2004 09:57:47; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0; 9881
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5; -3989.5; 20-JAN-2004 10:58:09; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0; 9882
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24; -336.0; 31-JAN-2004 12:53:40; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;10040
25; -216.2; 31-JAN-2004 12:55:39; Dark ; 70.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 140; 0;10040
26; 3.3; 31-JAN-2004 12:59:19; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;10041
27; 185.7; 31-JAN-2004 13:02:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;10041
28; 271.7; 31-JAN-2004 13:03:47; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10041
29; 461.2; 31-JAN-2004 13:06:57; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10041
30; 579.3; 31-JAN-2004 13:08:55; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;10041
31; 674.6; 31-JAN-2004 13:10:30; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;10041
32; 870.1; 31-JAN-2004 13:13:46; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;10041
33; 1072.4; 31-JAN-2004 13:17:08; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;10041
34; 1200.1; 31-JAN-2004 13:19:16; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;10041
35; 1282.9; 31-JAN-2004 13:20:38; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10041
36; 1429.2; 31-JAN-2004 13:23:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;10041
37; 1509.9; 31-JAN-2004 13:24:26; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;10041

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