

GOMOS Daily Report 05-SEP-2004

Level 0 and Level 1 products

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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 | 07SEP2004 05:01:27 |
| Data source version | GOMOS/4.02 |
| Start time of products | QDS_YESTERDAY(/START)-1D (05SEP2004 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (06SEP2004 00:00:00) |

| | |
|-------------------------|----|
| Store outputs flag | 0 |
| Nb of level 1b prods | 50 |
| Nb of prods with errors | 0 |

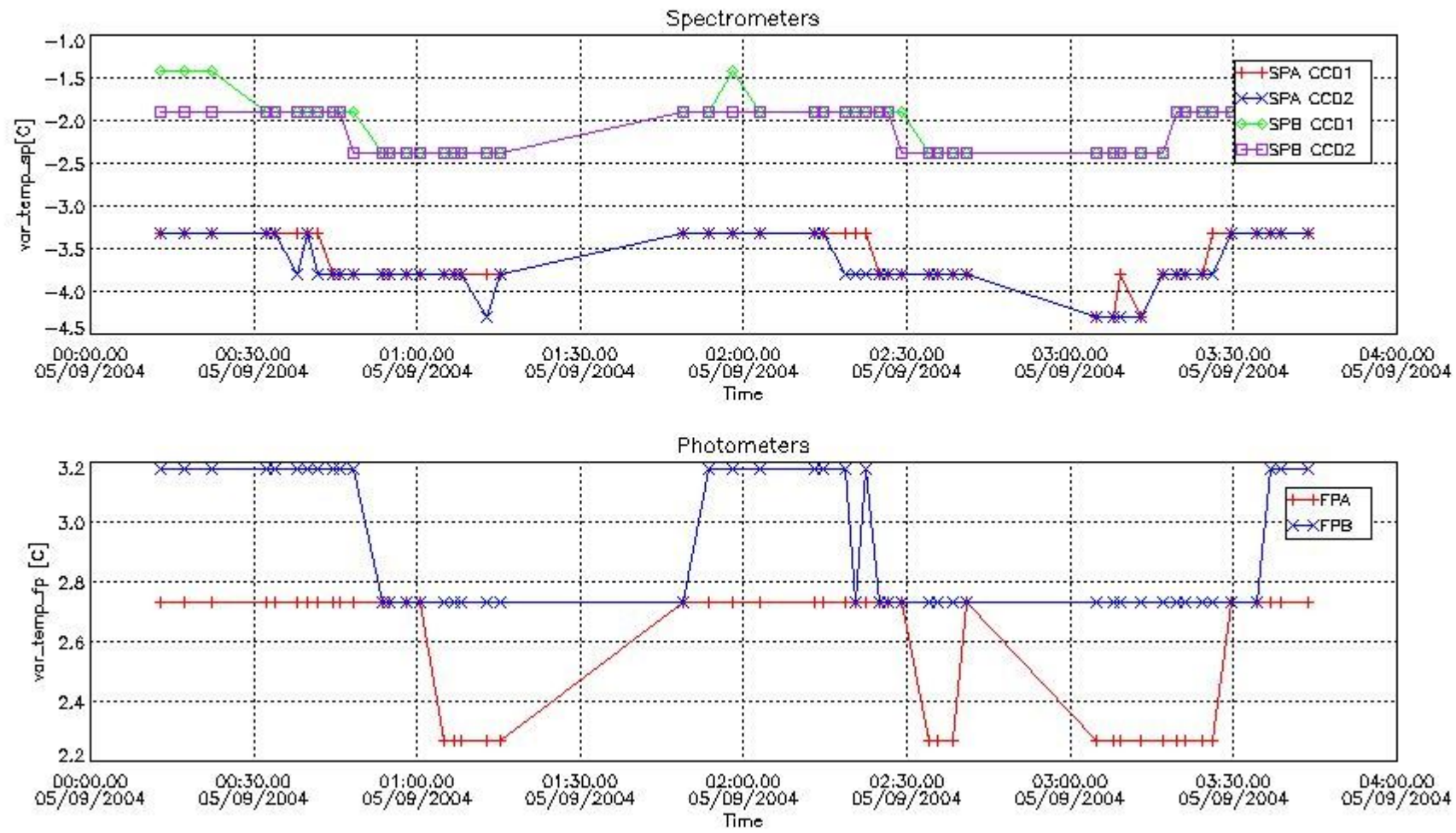
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040905_001259_000000562030_00073_13153_0000.N1 | 05-SEP-2004 00:12:59 | Dark | 56.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 112 | 13153 | No |
| GOM_TRA_1PNPDE20040905_001717_000000962030_00073_13153_0001.N1 | 05-SEP-2004 00:17:17 | Dark | 95.500 | 7 | 19Bet Ori | 0.10000 | 14000. | 191 | 13153 | No |
| GOM_TRA_1PNPDE20040905_002219_000000522030_00073_13153_0002.N1 | 05-SEP-2004 00:22:19 | Dark | 52.000 | 2 | Alp Car | -0.73600 | 7000.0 | 104 | 13153 | No |
| GOM_TRA_1PNPDE20040905_003226_000000402030_00074_13154_0003.N1 | 05-SEP-2004 00:32:26 | Dark | 40.000 | 135 | Bet Hyi | 2.8200 | 5800.0 | 80 | 13154 | No |
| GOM_TRA_1PNPDE20040905_003401_000000582030_00074_13154_0004.N1 | 05-SEP-2004 00:34:01 | Dark | 58.000 | 9 | Alp Eri | 0.45300 | 24000. | 116 | 13154 | No |
| GOM_TRA_1PNPDE20040905_003800_000000432030_00074_13154_0005.N1 | 05-SEP-2004 00:38:00 | Dark | 42.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 85 | 13154 | No |
| GOM_TRA_1PNPDE20040905_003958_000000502030_00074_13154_0006.N1 | 05-SEP-2004 00:39:58 | Twilight | 50.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 100 | 13154 | No |
| GOM_TRA_1PNPDE20040905_004142_000000422030_00074_13154_0007.N1 | 05-SEP-2004 00:41:42 | Twilight | 42.000 | 31 | Alp Gru | 1.7340 | 15200. | 84 | 13154 | No |
| GOM_TRA_1PNPDE20040905_004430_000000402030_00074_13154_0008.N1 | 05-SEP-2004 00:44:30 | Bright | 40.000 | 172 | Gam Gru | 3.0030 | 13100. | 80 | 13154 | No |
| GOM_TRA_1PNPDE20040905_004546_000000522030_00074_13154_0009.N1 | 05-SEP-2004 00:45:46 | Bright | 52.000 | 18 | 24Alp PsA | 1.1660 | 9700.0 | 104 | 13154 | No |
| GOM_TRA_1PNPDE20040905_004825_000000802030_00074_13154_0010.N1 | 05-SEP-2004 00:48:25 | Bright | 80.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 160 | 13154 | No |
| GOM_TRA_1PNPDE20040905_005336_000000402030_00074_13154_0011.N1 | 05-SEP-2004 00:53:36 | Bright | 40.000 | 154 | 22Bet Aqr | 2.8990 | 5700.0 | 80 | 13154 | No |
| GOM_TRA_1PNPDE20040905_005458_000000412030_00074_13154_0012.N1 | 05-SEP-2004 00:54:58 | Bright | 41.000 | 162 | 34Alp Aqr | 2.9440 | 5350.0 | 82 | 13154 | No |
| GOM_TRA_1PNPDE20040905_005757_000000402030_00074_13154_0013.N1 | 05-SEP-2004 00:57:57 | Bright | 39.500 | 61 | 8Eps Peg | 2.1000 | 3900.0 | 79 | 13154 | No |
| GOM_TRA_1PNPDE20040905_010024_000000482030_00074_13154_0014.N1 | 05-SEP-2004 01:00:24 | Bright | 48.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 96 | 13154 | No |
| GOM_TRA_1PNPDE20040905_010456_000000402030_00074_13154_0015.N1 | 05-SEP-2004 01:04:56 | Bright | 40.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 80 | 13154 | No |
| GOM_TRA_1PNPDE20040905_010652_000000422030_00074_13154_0016.N1 | 05-SEP-2004 01:06:52 | Bright | 41.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 83 | 13154 | No |
| GOM_TRA_1PNPDE20040905_010804_000000412030_00074_13154_0017.N1 | 05-SEP-2004 01:08:04 | Bright | 40.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 81 | 13154 | No |
| GOM_TRA_1PNPDE20040905_011254_000000352030_00074_13154_0018.N1 | 05-SEP-2004 01:12:54 | Bright | 34.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 69 | 13154 | No |
| GOM_TRA_1PNPDE20040905_011509_000000452030_00074_13154_0019.N1 | 05-SEP-2004 01:15:09 | Bright | 45.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 90 | 13154 | No |
| GOM_TRA_1PNPDE20040905_014849_000000782030_00074_13154_0000.N1 | 05-SEP-2004 01:48:49 | Dark | 77.500 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 155 | 13154 | No |
| GOM_TRA_1PNPDE20040905_015336_000000622030_00074_13154_0001.N1 | 05-SEP-2004 01:53:36 | Dark | 62.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 124 | 13154 | No |
| GOM_TRA_1PNPDE20040905_015755_000000972030_00074_13154_0002.N1 | 05-SEP-2004 01:57:55 | Dark | 97.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 194 | 13154 | No |
| GOM_TRA_1PNPDE20040905_020256_000000552030_00074_13154_0003.N1 | 05-SEP-2004 02:02:56 | Dark | 55.000 | 2 | Alp Car | -0.73600 | 7000.0 | 110 | 13154 | No |
| GOM_TRA_1PNPDE20040905_021301_000000402030_00075_13155_0004.N1 | 05-SEP-2004 02:13:01 | Dark | 40.000 | 135 | Bet Hyi | 2.8200 | 5800.0 | 80 | 13155 | No |
| GOM_TRA_1PNPDE20040905_021439_000000472030_00075_13155_0005.N1 | 05-SEP-2004 02:14:39 | Dark | 46.500 | 9 | Alp Eri | 0.45300 | 24000. | 93 | 13155 | No |
| GOM_TRA_1PNPDE20040905_021837_000000432030_00075_13155_0006.N1 | 05-SEP-2004 02:18:37 | Dark | 42.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 85 | 13155 | No |
| GOM_TRA_1PNPDE20040905_022034_000000542030_00075_13155_0007.N1 | 05-SEP-2004 02:20:34 | Twilight | 54.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 108 | 13155 | No |
| GOM_TRA_1PNPDE20040905_022218_000000422030_00075_13155_0008.N1 | 05-SEP-2004 02:22:18 | Twilight | 42.000 | 31 | Alp Gru | 1.7340 | 15200. | 84 | 13155 | No |
| GOM_TRA_1PNPDE20040905_022504_000000432030_00075_13155_0009.N1 | 05-SEP-2004 02:25:04 | Bright | 42.500 | 172 | Gam Gru | 3.0030 | 13100. | 85 | 13155 | No |
| GOM_TRA_1PNPDE20040905_022622_000000522030_00075_13155_0010.N1 | 05-SEP-2004 02:26:22 | Bright | 52.000 | 18 | 24Alp PsA | 1.1660 | 9700.0 | 104 | 13155 | No |
| GOM_TRA_1PNPDE20040905_022902_000000772030_00075_13155_0011.N1 | 05-SEP-2004 02:29:02 | Bright | 77.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 154 | 13155 | No |
| GOM_TRA_1PNPDE20040905_023410_000000422030_00075_13155_0012.N1 | 05-SEP-2004 02:34:10 | Bright | 42.000 | 154 | 22Bet Aqr | 2.8990 | 5700.0 | 84 | 13155 | No |
| GOM_TRA_1PNPDE20040905_023534_000000412030_00075_13155_0013.N1 | 05-SEP-2004 02:35:34 | Bright | 41.000 | 162 | 34Alp Aqr | 2.9440 | 5350.0 | 82 | 13155 | No |
| GOM_TRA_1PNPDE20040905_023833_000000402030_00075_13155_0014.N1 | 05-SEP-2004 02:38:33 | Bright | 39.500 | 61 | 8Eps Peg | 2.1000 | 3900.0 | 79 | 13155 | No |
| GOM_TRA_1PNPDE20040905_024059_000000472030_00075_13155_0015.N1 | 05-SEP-2004 02:40:59 | Bright | 47.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 94 | 13155 | No |
| GOM_TRA_1PNPDE20040905_030447_000000592030_00075_13155_0000.N1 | 05-SEP-2004 03:04:47 | Bright | 59.000 | 160 | 23Gam Per | 2.9300 | 4700.0 | 118 | 13155 | No |
| GOM_TRA_1PNPDE20040905_030752_000000402030_00075_13155_0001.N1 | 05-SEP-2004 03:07:52 | Bright | 40.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 80 | 13155 | No |
| GOM_TRA_1PNPDE20040905_030917_000000392030_00075_13155_0002.N1 | 05-SEP-2004 03:09:17 | Bright | 38.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 77 | 13155 | No |
| GOM_TRA_1PNPDE20040905_031257_000000632030_00075_13155_0003.N1 | 05-SEP-2004 03:12:57 | Bright | 62.500 | 6 | 13Alp Aur | 0.080000 | 3400.0 | 125 | 13155 | No |
| GOM_TRA_1PNPDE20040905_031659_000000502030_00075_13155_0004.N1 | 05-SEP-2004 03:16:59 | Bright | 50.000 | 107 | 37The Aur | 2.6490 | 11000. | 100 | 13155 | No |
| GOM_TRA_1PNPDE20040905_031923_000000442030_00075_13155_0005.N1 | 05-SEP-2004 03:19:23 | Twilight | 43.500 | 17 | 78Bet Gem | 1.1610 | 4500.0 | 87 | 13155 | No |
| GOM_TRA_1PNPDE20040905_032108_000000782030_00075_13155_0006.N1 | 05-SEP-2004 03:21:08 | Twilight | 77.500 | 28 | 12Bet Tau | 1.6500 | 15200. | 155 | 13155 | No |
| GOM_TRA_1PNPDE20040905_032418_000000562030_00075_13155_0007.N1 | 05-SEP-2004 03:24:18 | Twilight | 55.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 111 | 13155 | No |
| GOM_TRA_1PNPDE20040905_032614_000000462030_00075_13155_0008.N1 | 05-SEP-2004 03:26:14 | Twilight | 46.000 | 8 | 10Alp CMi | 0.40000 | 6500.0 | 92 | 13155 | No |
| GOM_TRA_1PNPDE20040905_032925_000000802030_00075_13155_0009.N1 | 05-SEP-2004 03:29:25 | Dark | 79.500 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 159 | 13155 | No |
| GOM_TRA_1PNPDE20040905_033412_000000552030_00075_13155_0010.N1 | 05-SEP-2004 03:34:12 | Dark | 54.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 109 | 13155 | No |
| GOM_TRA_1PNPDE20040905_033653_000000452030_00075_13155_0011.N1 | 05-SEP-2004 03:36:53 | Dark | 44.500 | 23 | 21Eps CMa | 1.5020 | 26000. | 89 | 13155 | No |
| GOM_TRA_1PNPDE20040905_033832_000001062030_00075_13155_0012.N1 | 05-SEP-2004 03:38:32 | Dark | 105.50 | 7 | 19Bet Ori | 0.10000 | 14000. | 211 | 13155 | No |

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



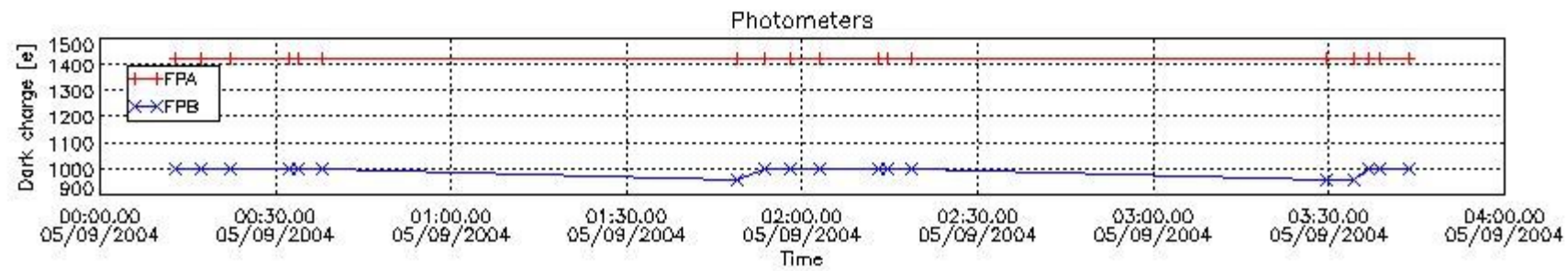
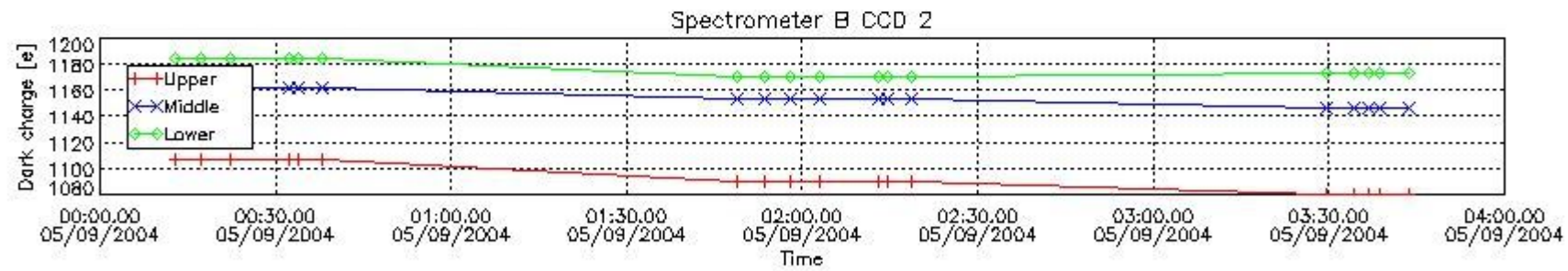
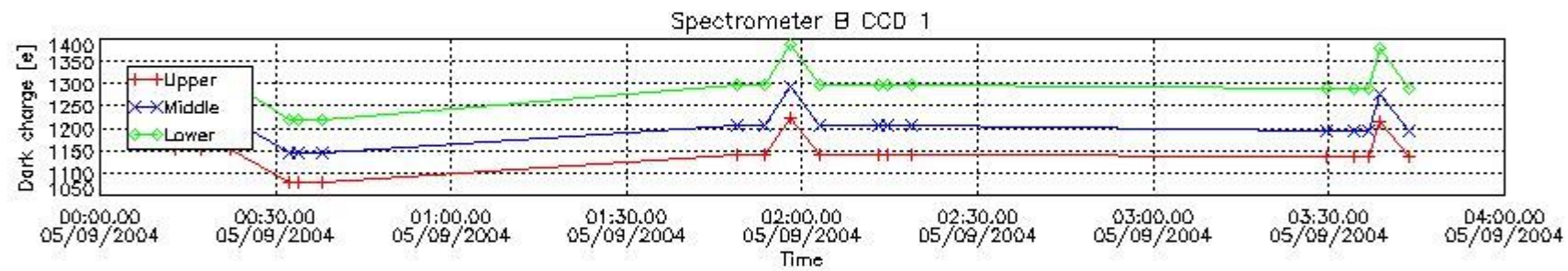
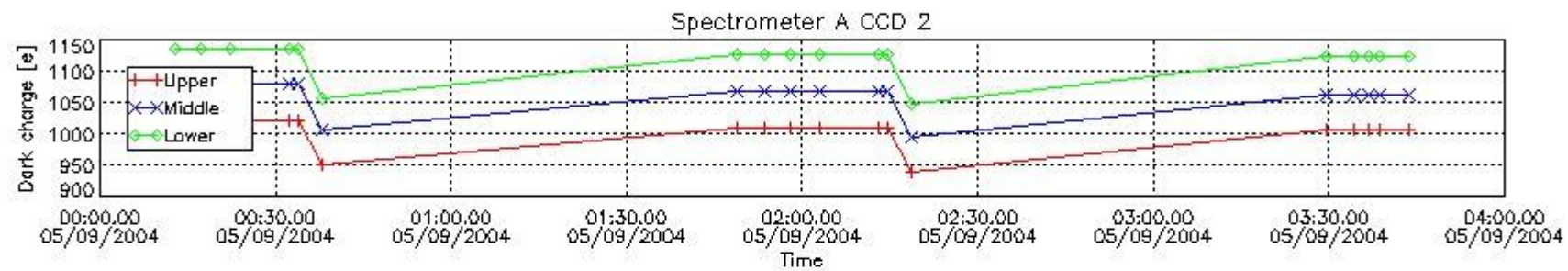
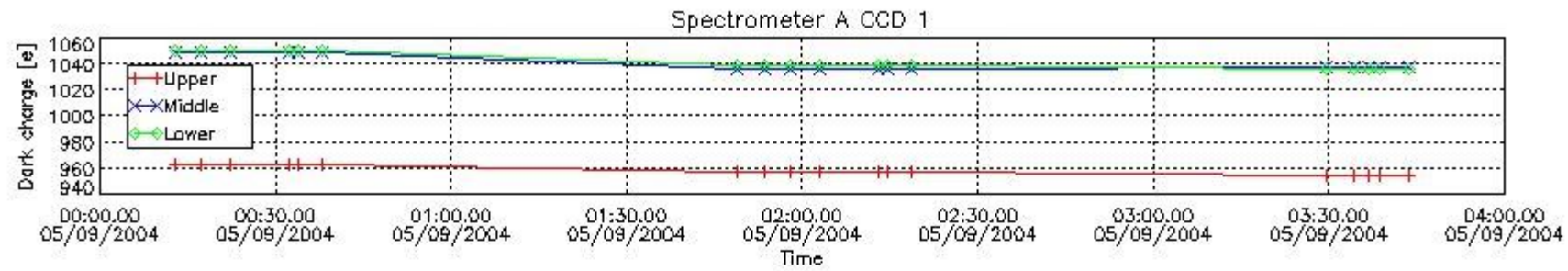
4. Overview of dark signal processing per product

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



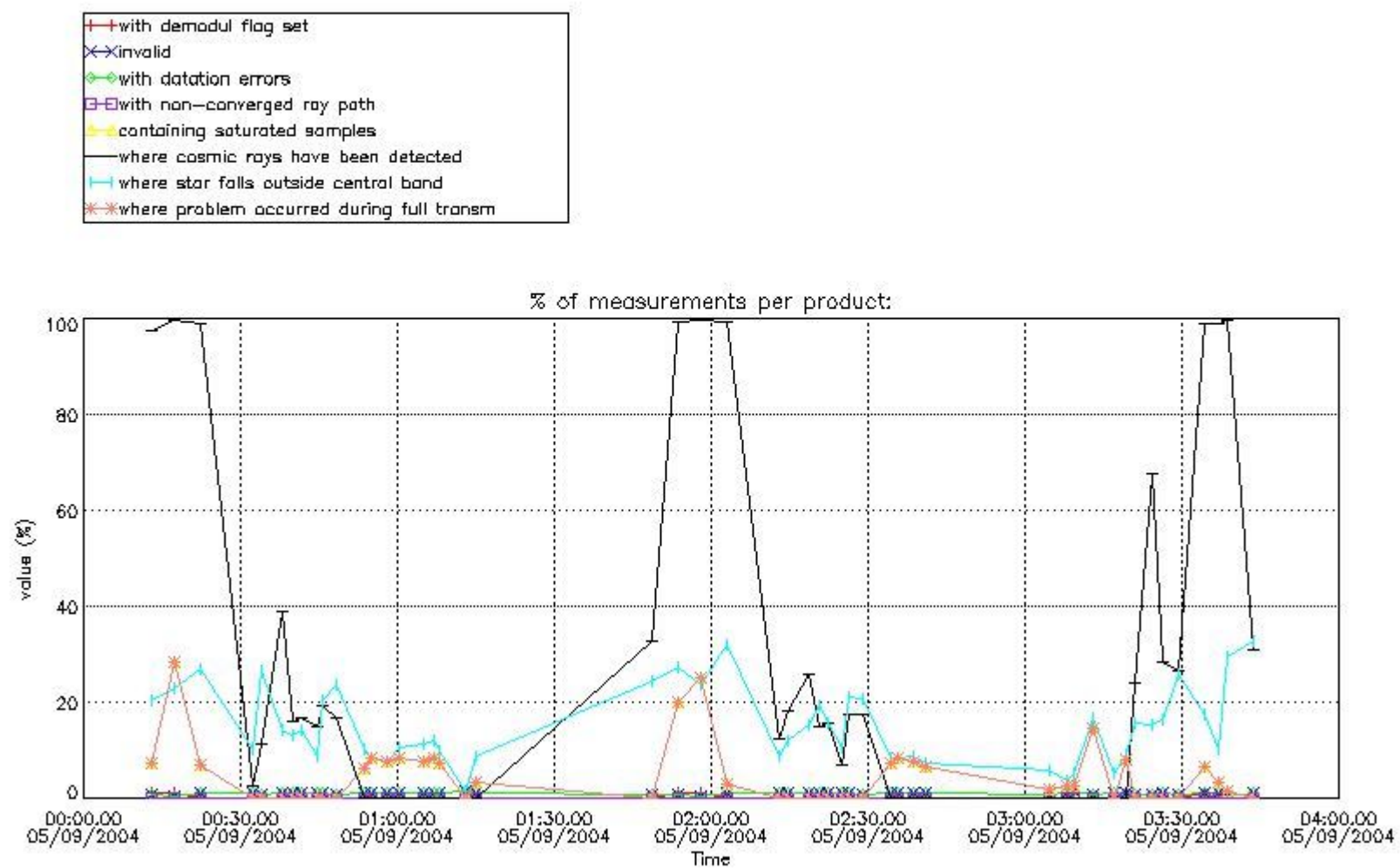
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

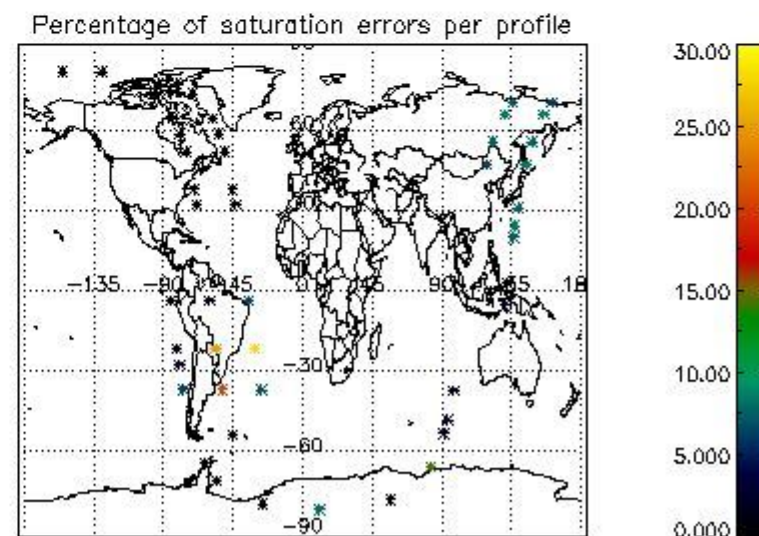
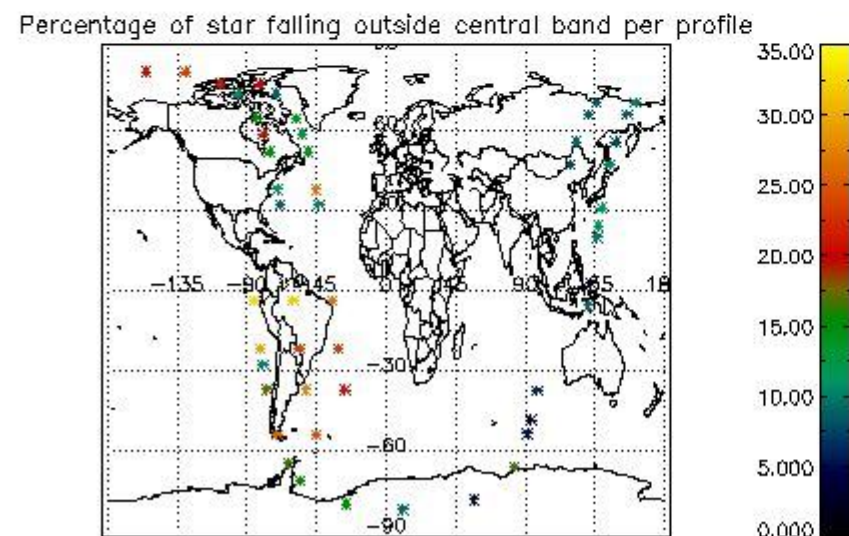
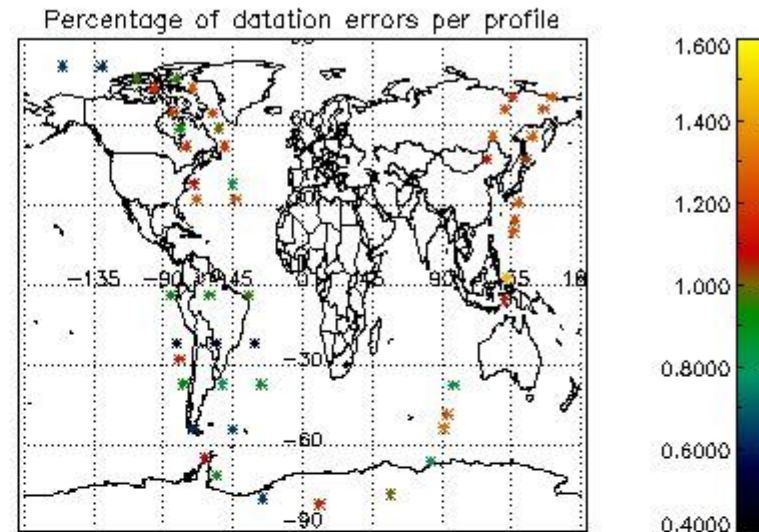
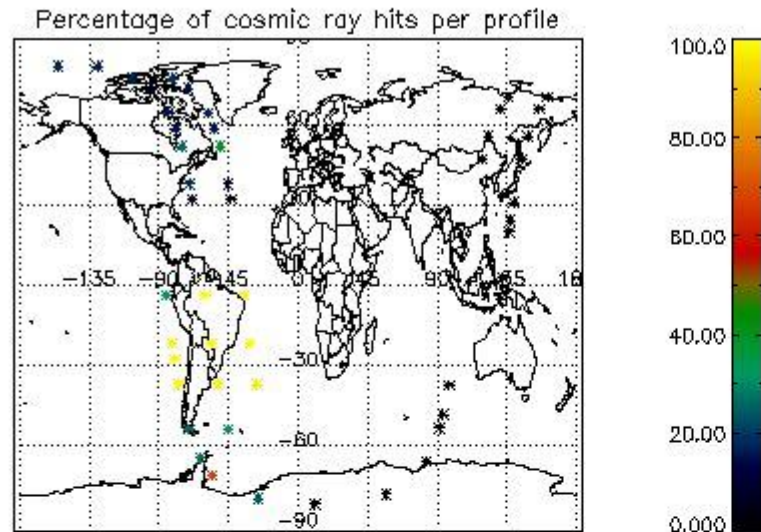
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 20.0000 % |
| 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 (time dependant)



5.3 Plot quality information per product (world map)



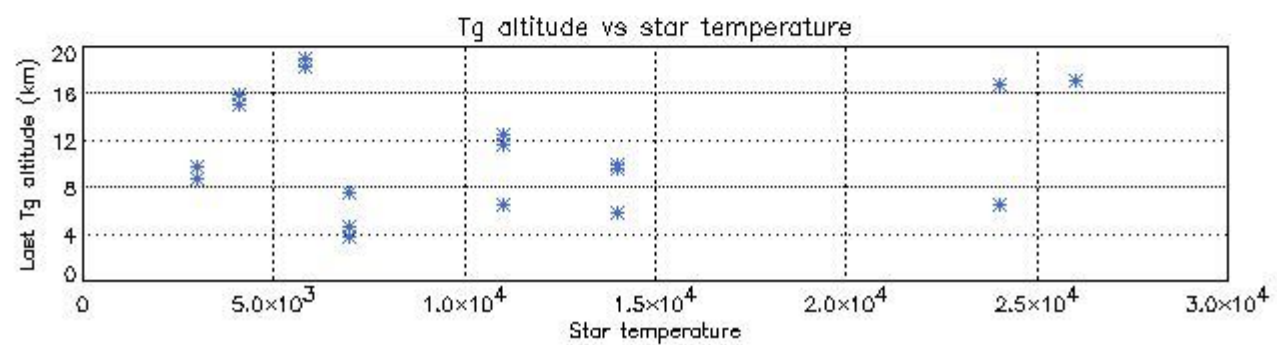
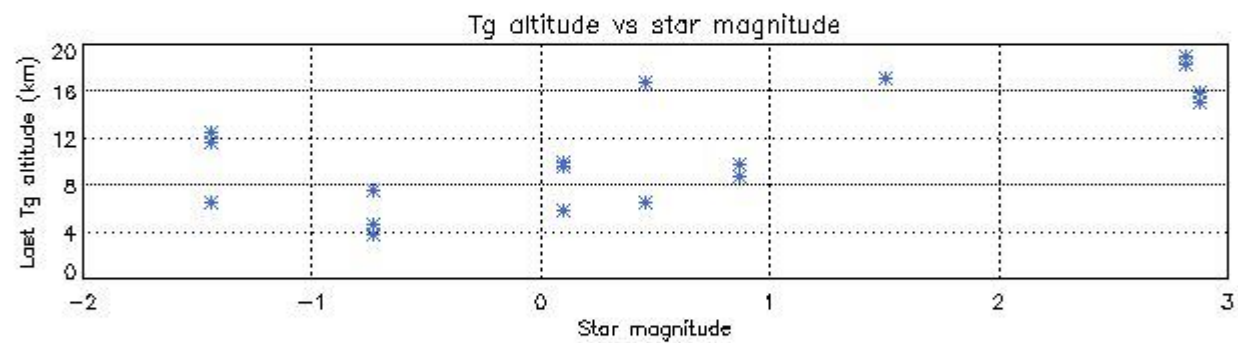
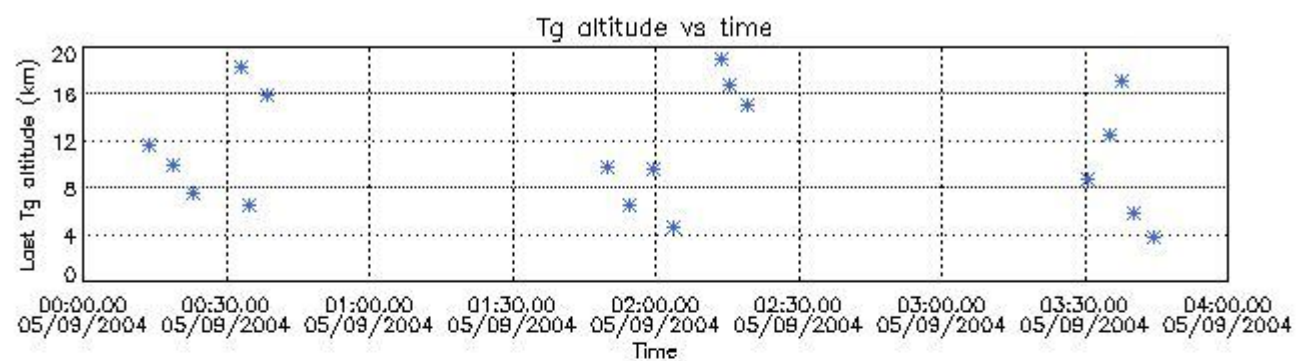
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 11.040 | 17.753 | 14.397 |
| St. deviation: | 4.9281 | 4.3634 | 1.4472 |
| Maximum: | 19.051 | 29.126 | 16.375 |
| Minimum: | 3.7575 | 9.8824 | 11.941 |
| Number of data: | 18.000 | 24.000 | 8.0000 |

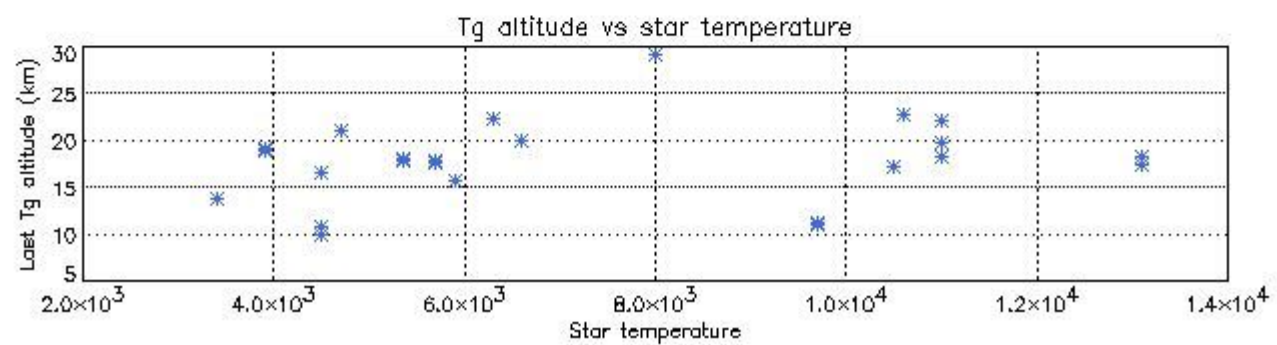
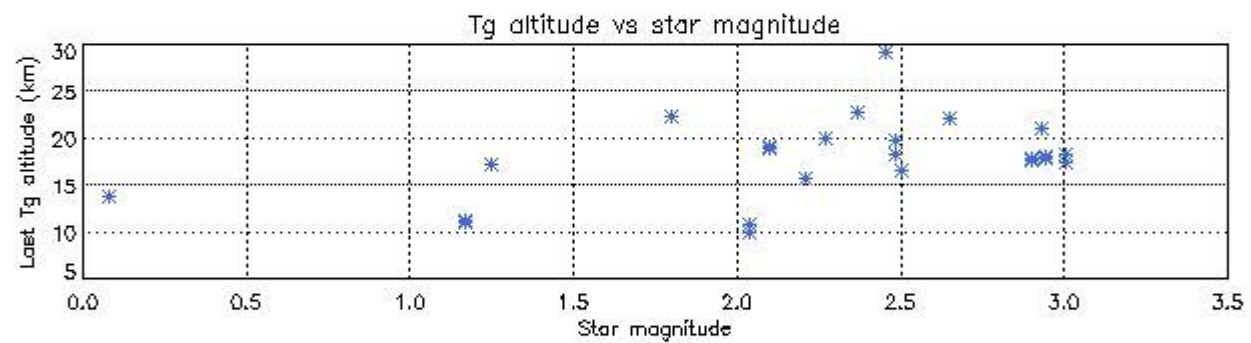
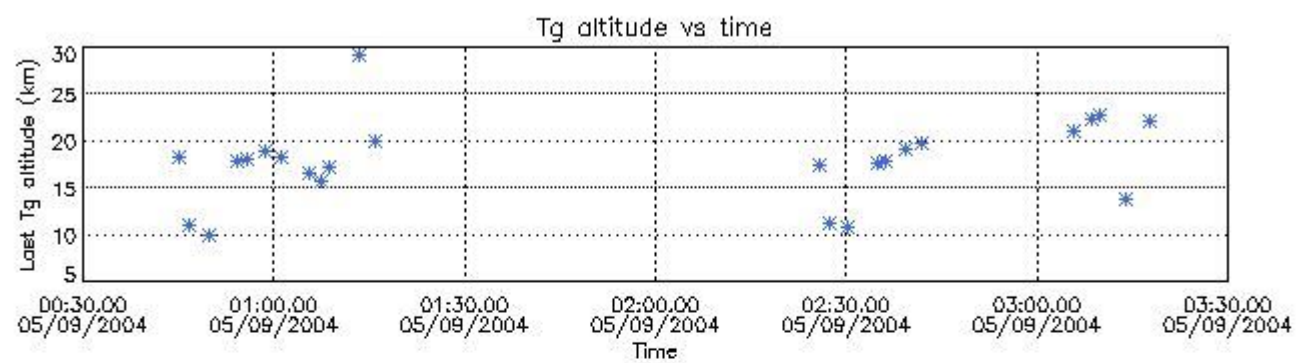
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



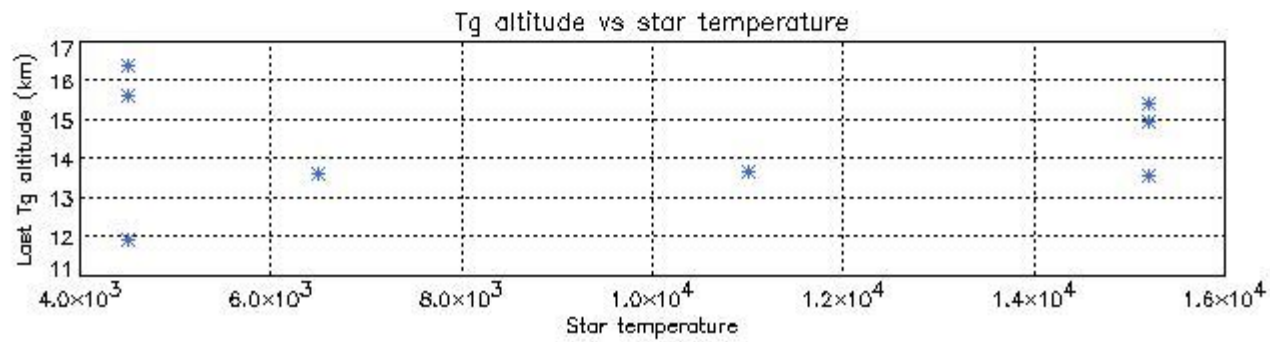
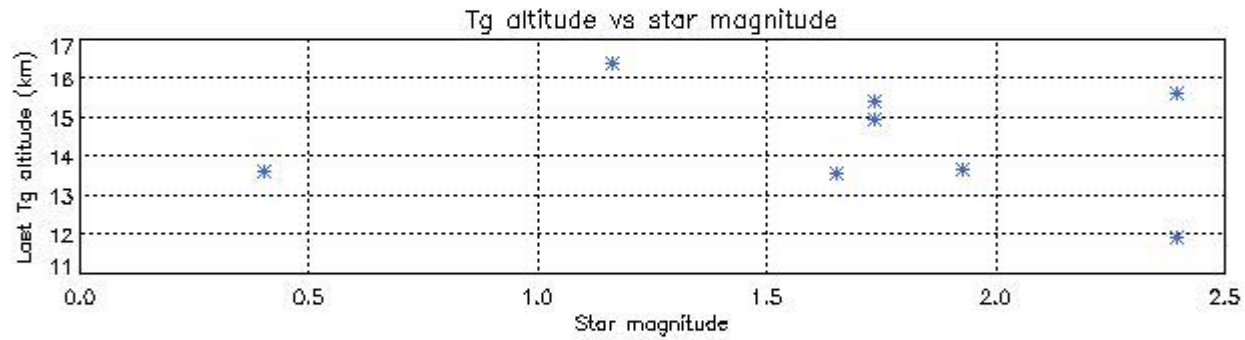
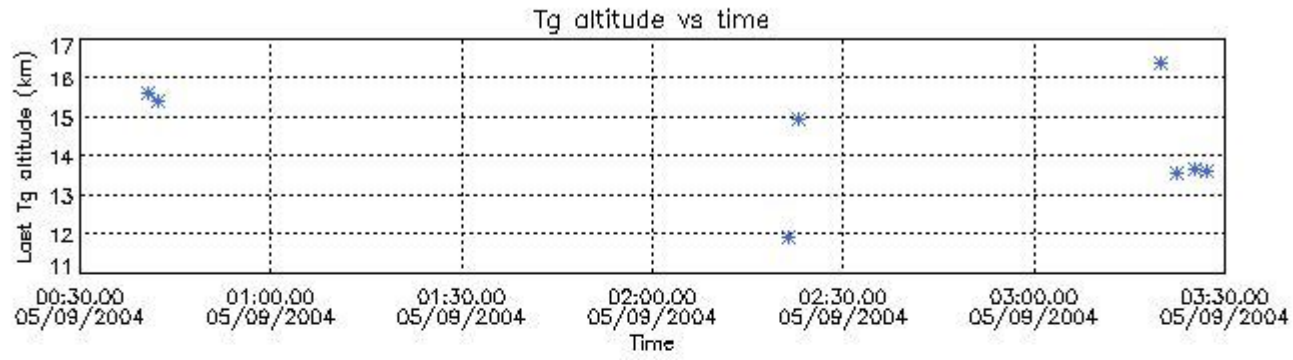
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

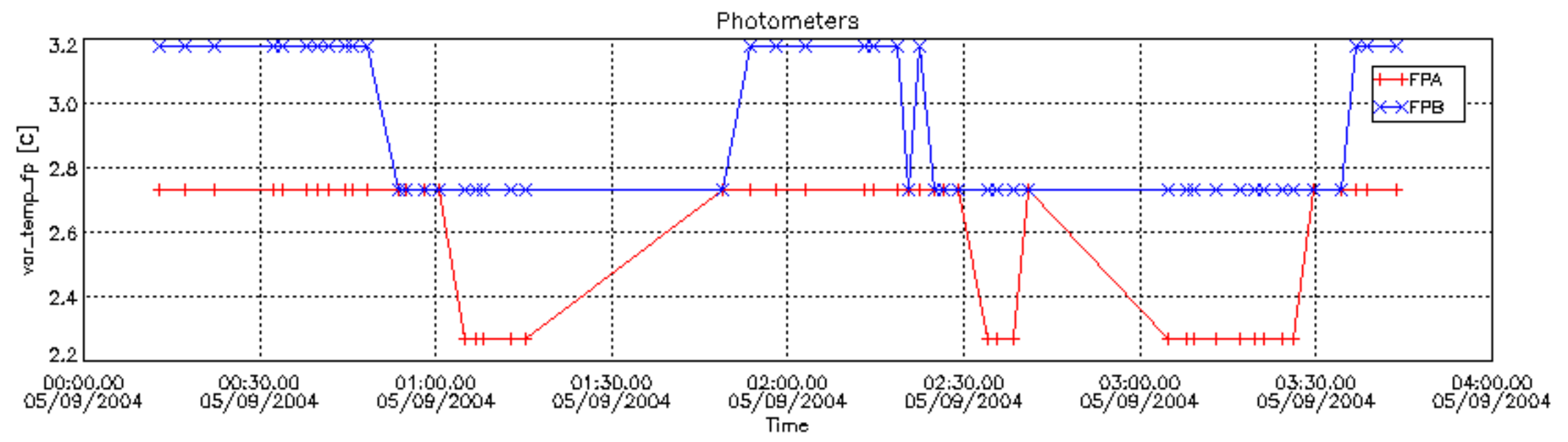
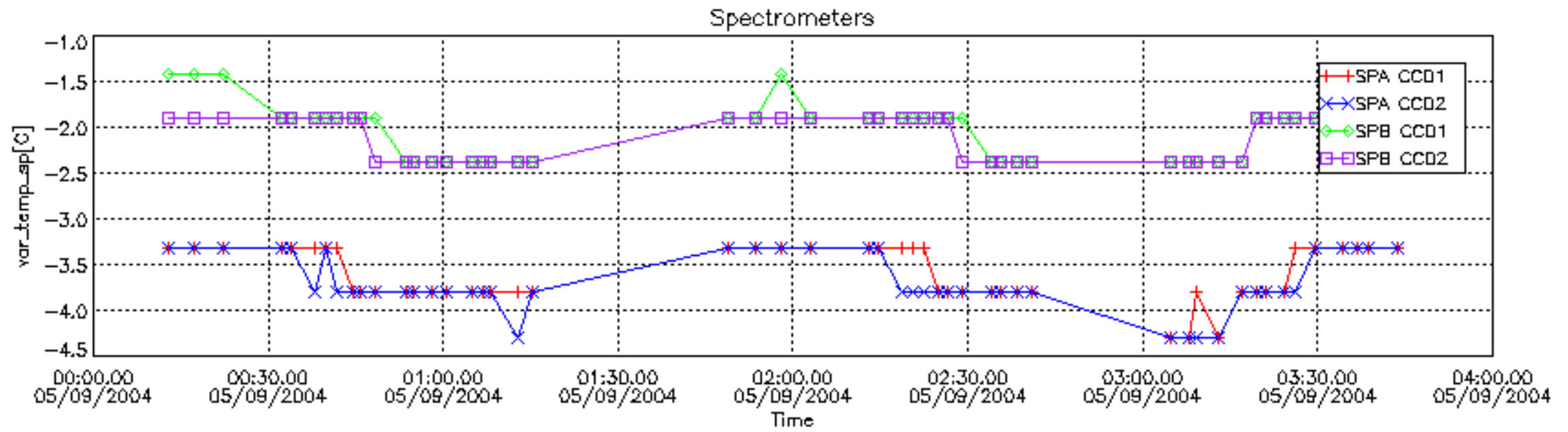
Tangent altitude at which the star is lost

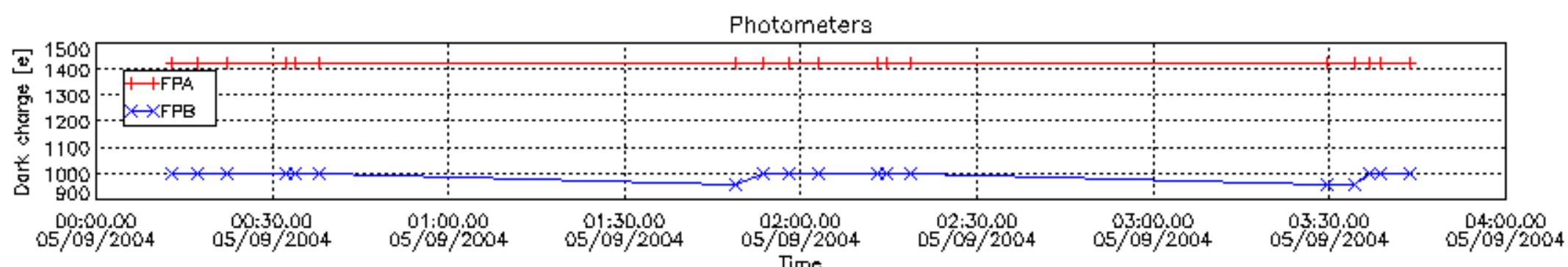
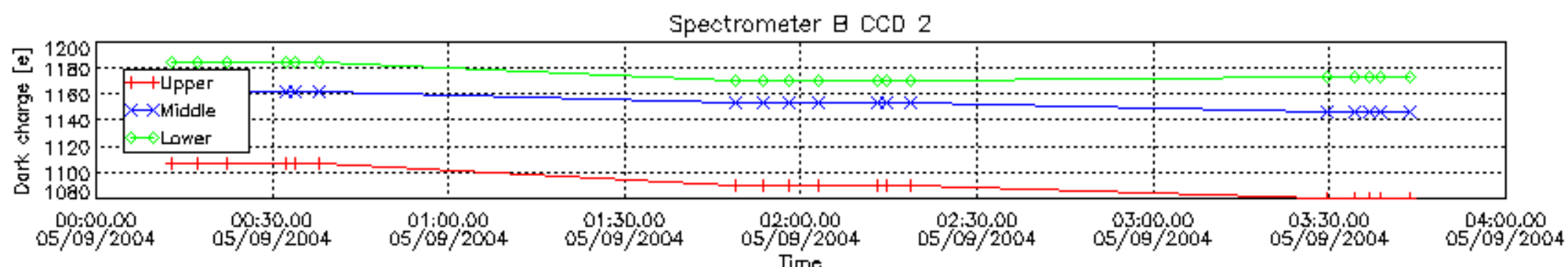
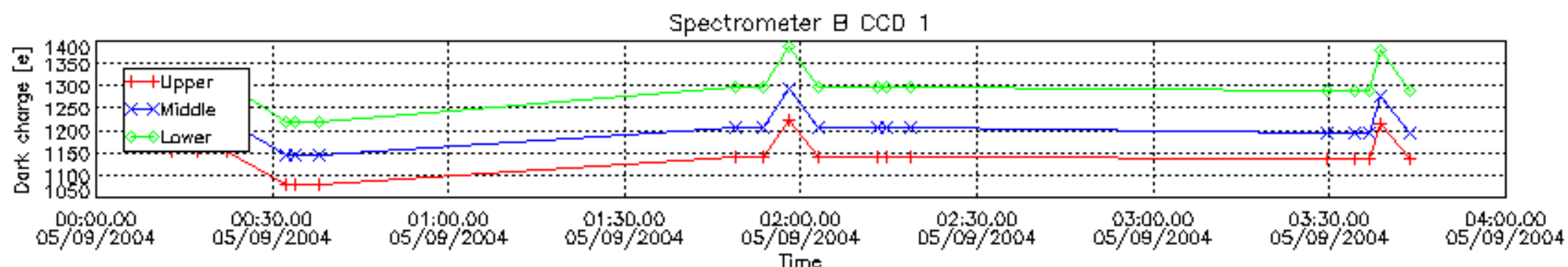
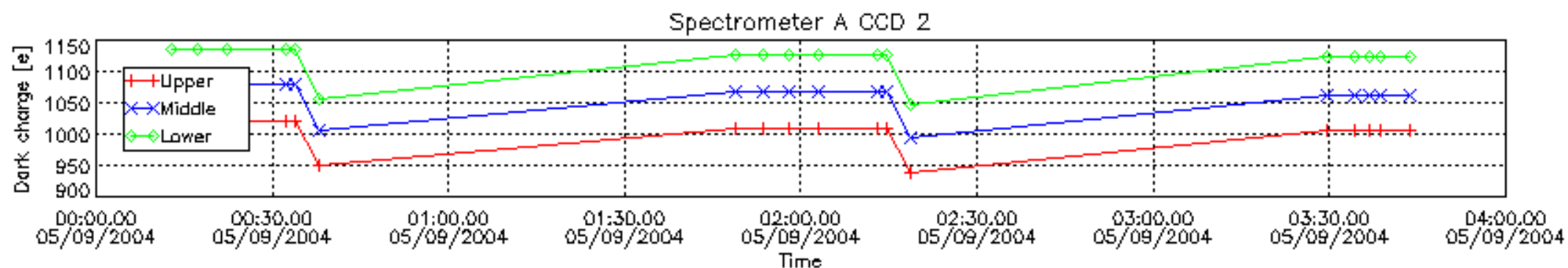
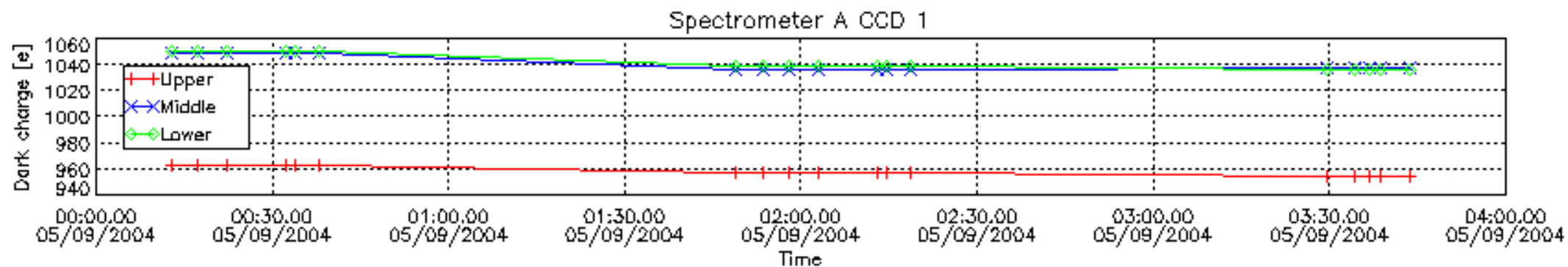


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

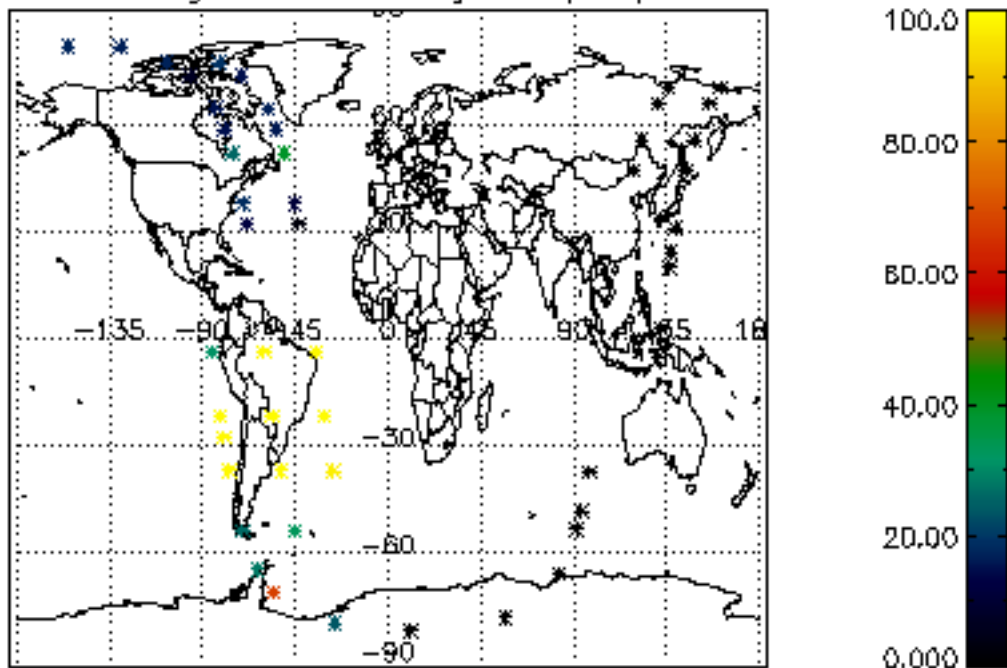
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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 | 1447.2 | 1461.8 | 1447.0 |
| St. deviation: | 2.6581 | 4.1134 | 6.9012 | 8.0066 |
| Maximum: | 1487.0 | 1486.0 | 1510.0 | 1500.0 |
| Minimum: | 1457.0 | 1426.0 | 1421.0 | 1407.0 |
| Number of data: | 26500. | 26500. | 29550. | 29550. |

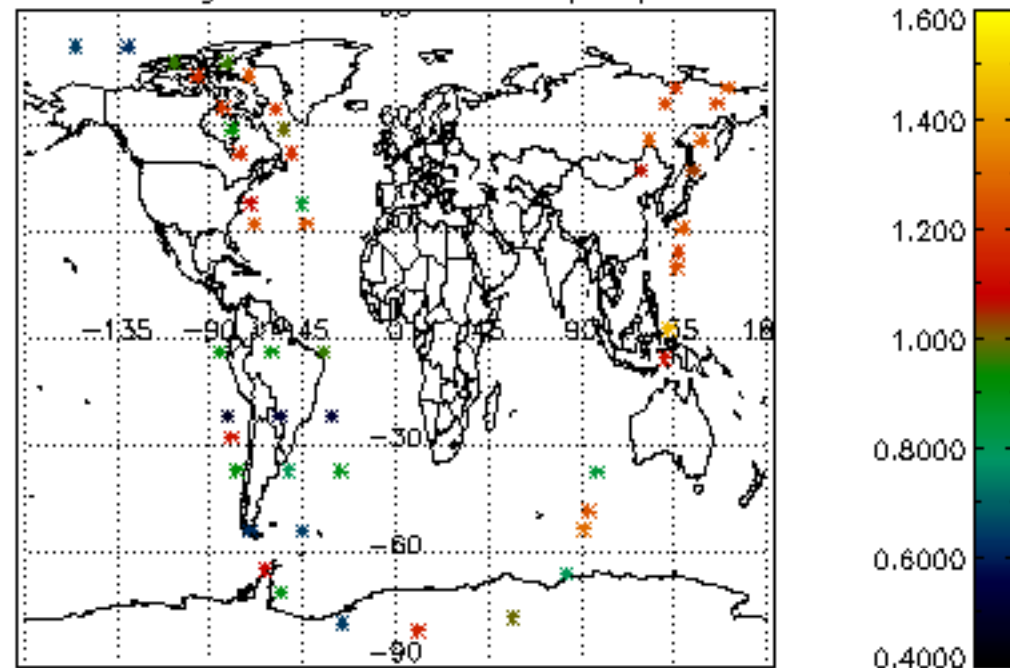




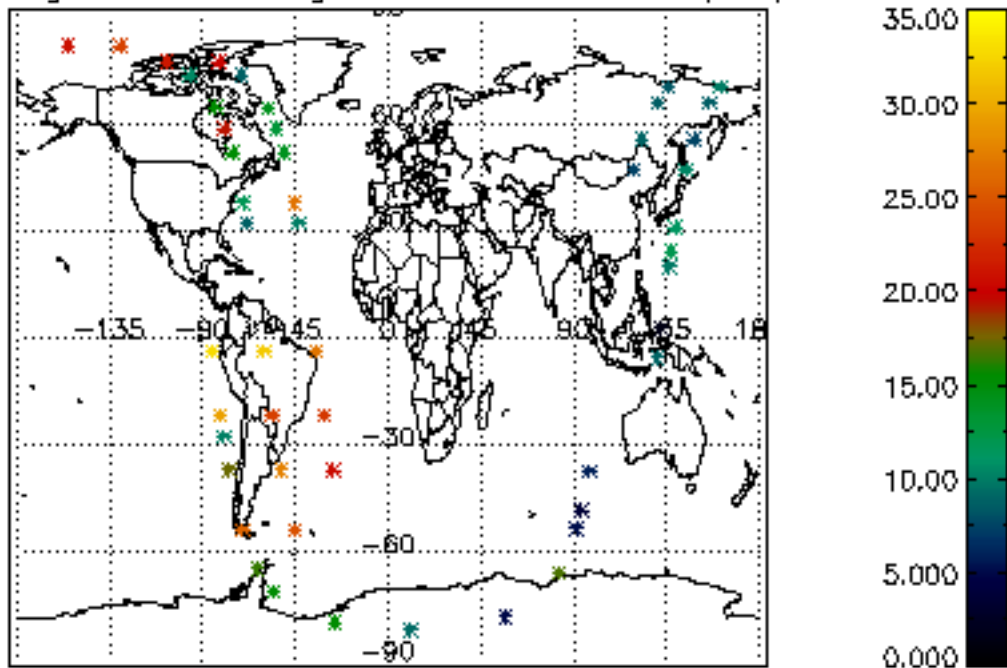
Percentage of cosmic ray hits per profile



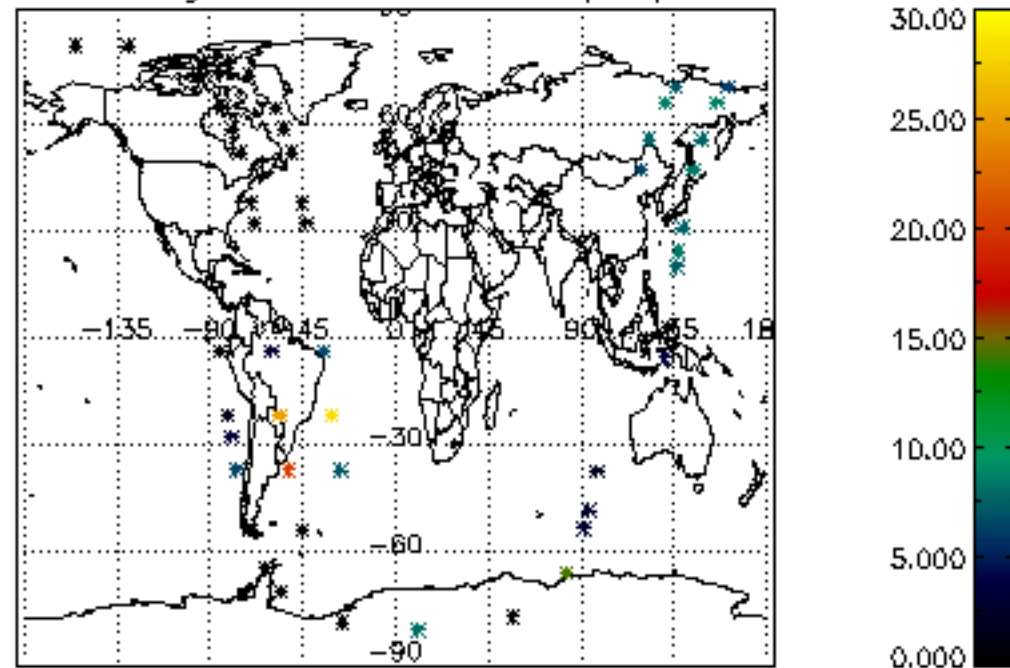
Percentage of datation errors per profile



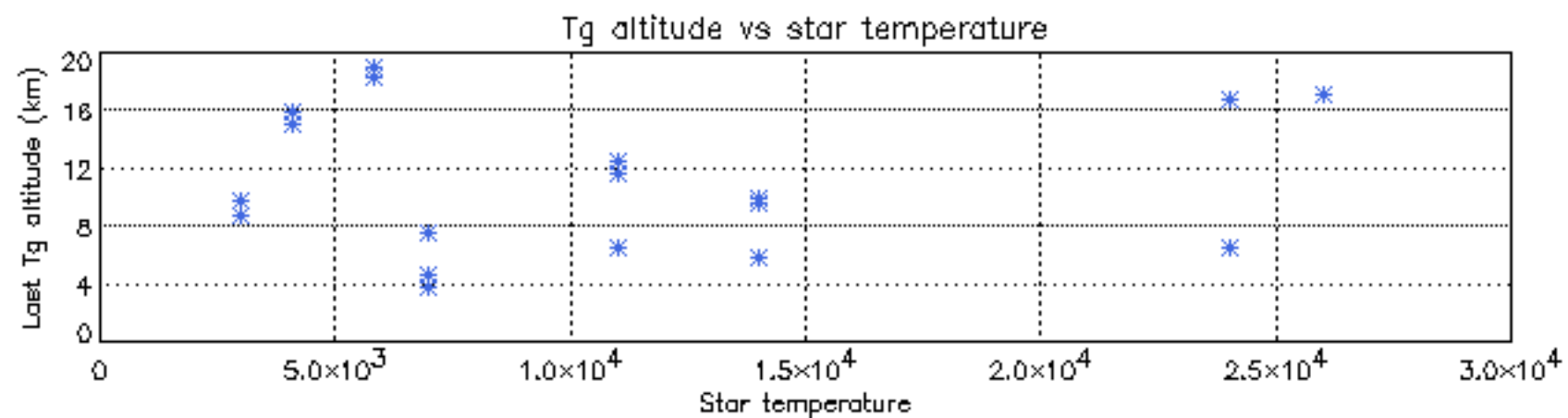
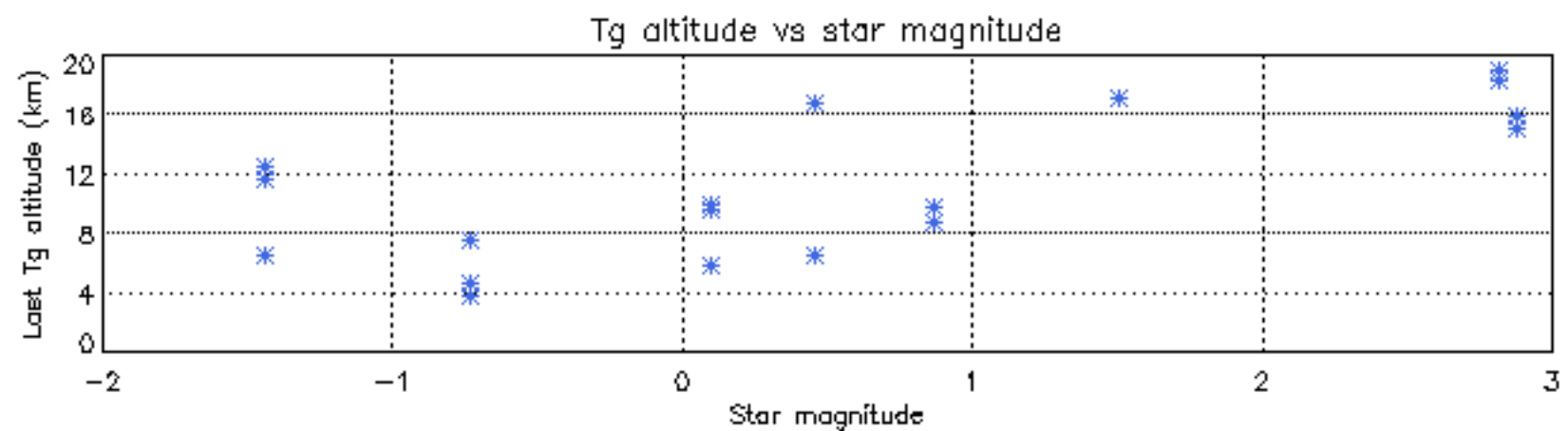
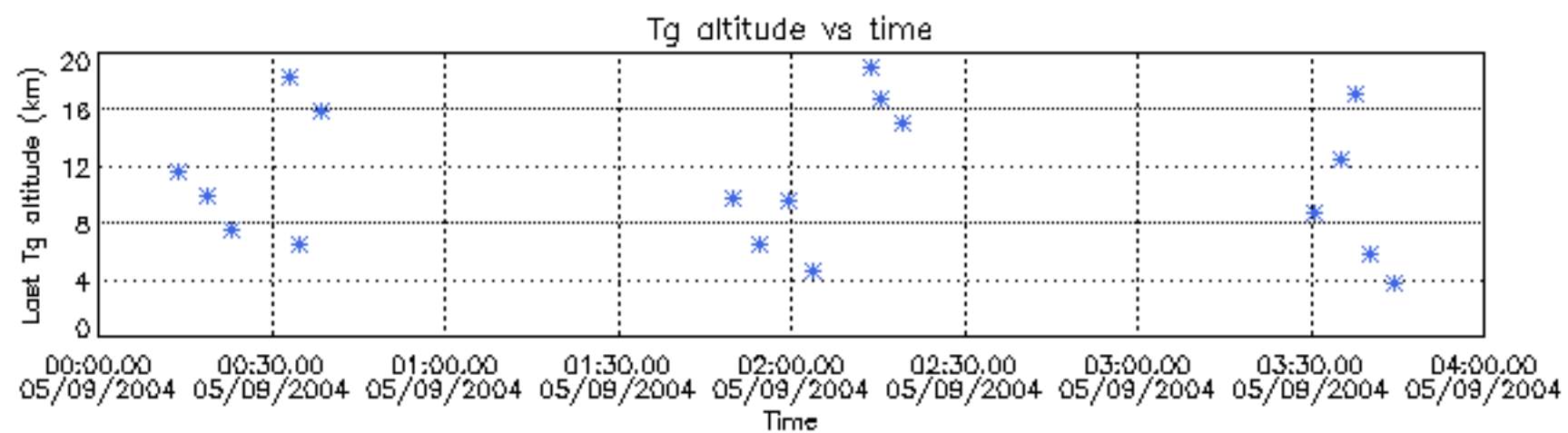
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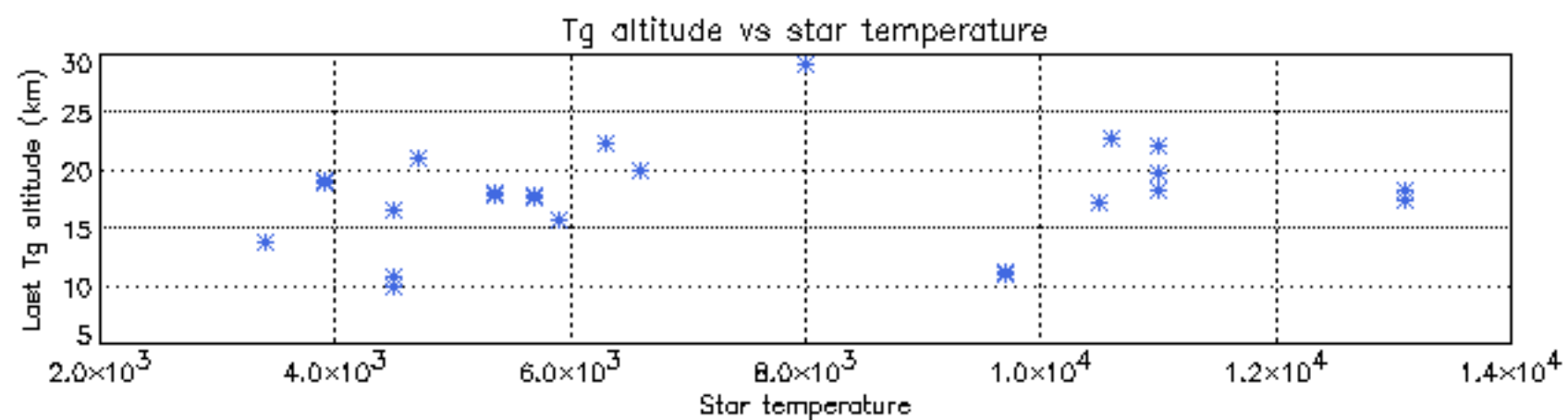
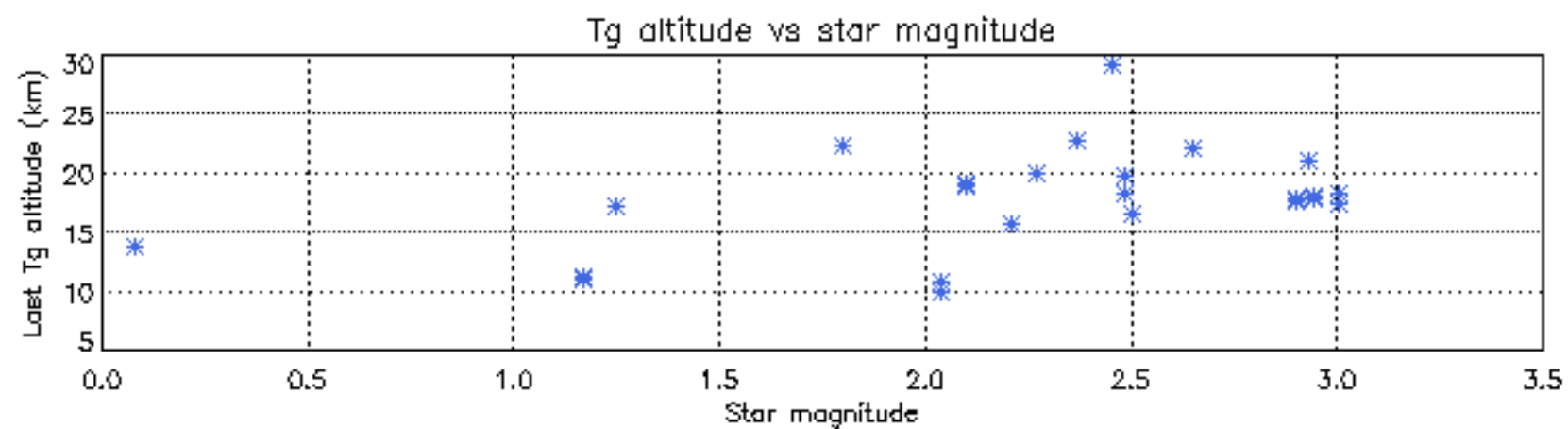
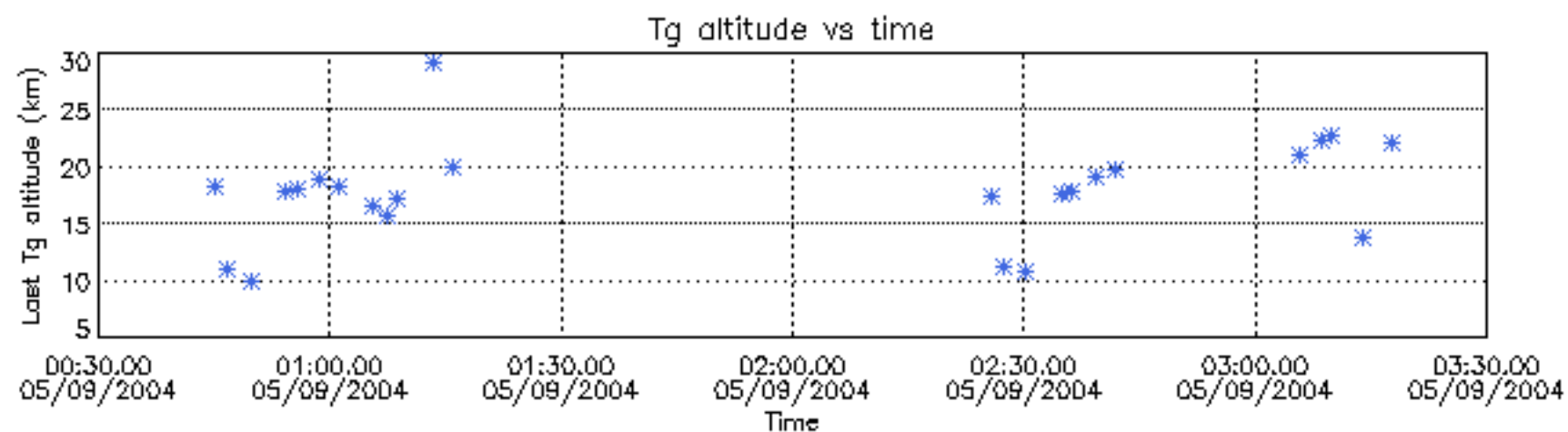
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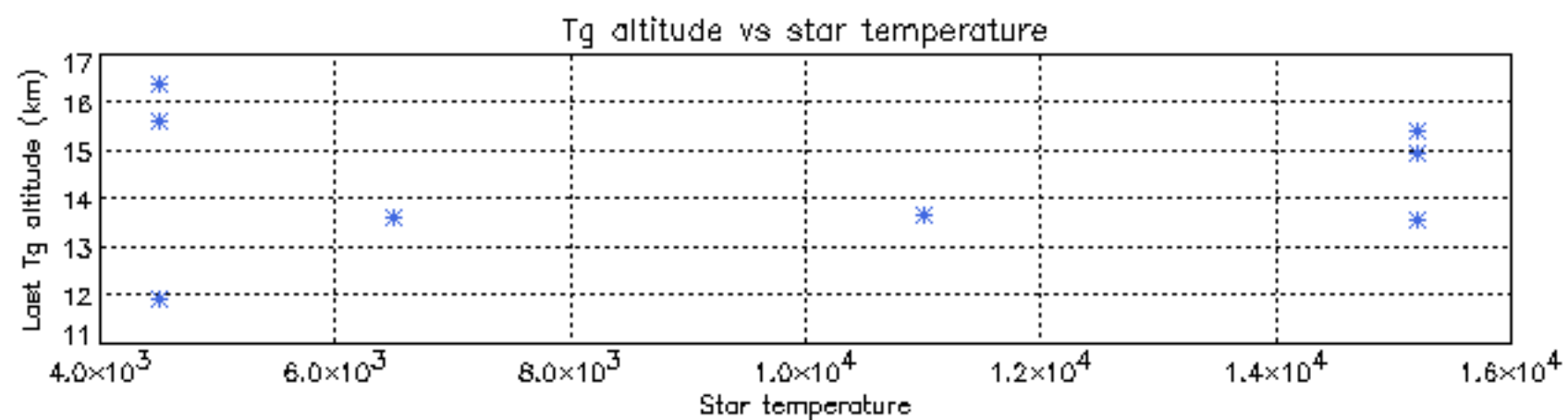
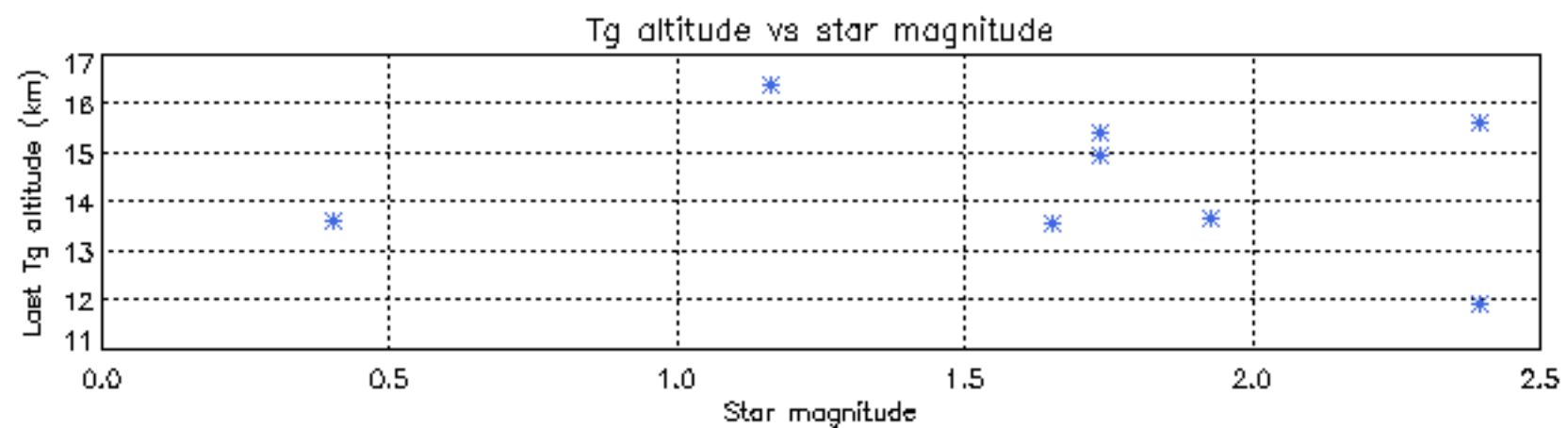
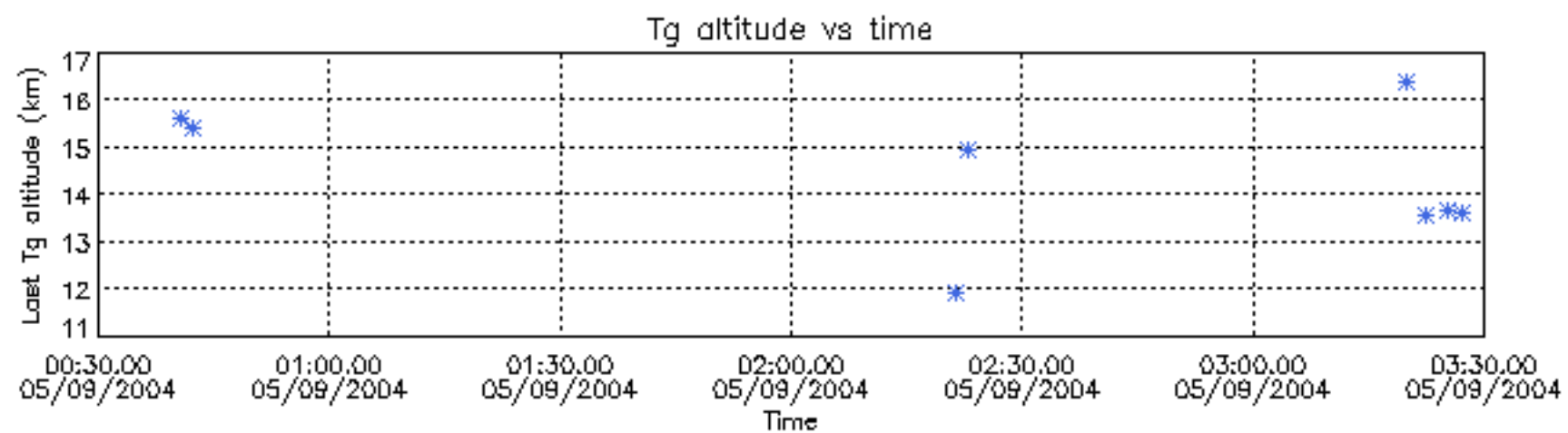
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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13; 1363.7; 11-SEP-2004 02:38:13; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;13241
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24; 3057.3; 11-SEP-2004 03:06:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13241
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| 2; | -541.4; | 11-SEP-2004 | 22:13:39; | Dark | ; | 66.0; | 1; | 9Alp CMa | ; | -1.44; | 11000; | occ; | 132; | 0; | 13252 |
| 3; | -397.7; | 11-SEP-2004 | 22:16:03; | Dark | ; | 49.0; | 23; | 21Eps CMa | ; | 1.50; | 26000; | occ; | 98; | 0; | 13252 |
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| 5; | -178.6; | 11-SEP-2004 | 22:19:42; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0; | occ; | 119; | 0; | 13252 |
| 6; | -87.7; | 11-SEP-2004 | 22:21:13; | Dark | ; | 42.0; | 161; | Tau Pup | ; | 2.93; | 4500; | occ; | 84; | 0; | 13252 |
| 7; | -11.0; | 11-SEP-2004 | 22:22:29; | Dark | ; | 53.5; | 2; | Alp Car | ; | -0.74; | 7000; | occ; | 107; | 0; | 13252 |
| 8; | 560.7; | 11-SEP-2004 | 22:32:01; | Dark | ; | 39.0; | 135; | Bet Hyi | ; | 2.82; | 5800; | occ; | 78; | 0; | 13253 |
| 9; | 694.0; | 11-SEP-2004 | 22:34:14; | Dark | ; | 54.0; | 9; | Alp Eri | ; | 0.45; | 24000; | occ; | 108; | 0; | 13253 |
| 10; | 895.1; | 11-SEP-2004 | 22:37:35; | Dark | ; | 40.0; | 148; | Alp Tuc | ; | 2.88; | 4100; | occ; | 80; | 0; | 13253 |
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| 12; | 1284.2; | 11-SEP-2004 | 22:44:04; | Dark | ; | 39.0; | 172; | Gam Gru | ; | 3.00; | 13100; | occ; | 78; | 0; | 13253 |
| 13; | 1366.4; | 11-SEP-2004 | 22:45:27; | Dark | ; | 48.5; | 18; | 24Alp PsA | ; | 1.17; | 9700; | occ; | 97; | 0; | 13253 |
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| 15; | 1640.8; | 11-SEP-2004 | 22:50:01; | Dark | ; | 42.0; | 142; | 49Del Cap | ; | 2.85; | 8900; | occ; | 84; | 0; | 13253 |
| 16; | 1898.3; | 11-SEP-2004 | 22:54:18; | Bright; | | 39.0; | 162; | 34Alp Aqr | ; | 2.94; | 5350; | occ; | 78; | 0; | 13253 |
| 17; | 2076.7; | 11-SEP-2004 | 22:57:17; | Bright; | | 40.5; | 61; | 8Eps Peg | ; | 2.10; | 3900; | occ; | 81; | 0; | 13253 |
| 18; | 2187.7; | 11-SEP-2004 | 22:59:08; | Bright; | | 43.5; | 90; | 54Alp Peg | ; | 2.49; | 11000; | occ; | 87; | 0; | 13253 |
| 19; | 2303.2; | 11-SEP-2004 | 23:01:03; | Bright; | | 53.5; | 140; | 88Gam Peg | ; | 2.83; | 26000; | occ; | 107; | 0; | 13253 |
| 20; | 2442.3; | 11-SEP-2004 | 23:03:23; | Bright; | | 41.5; | 164; | 44Eta Peg | ; | 2.95; | 5400; | occ; | 83; | 0; | 13253 |
| 21; | 2632.4; | 11-SEP-2004 | 23:06:33; | Bright; | | 37.5; | 66; | 37Gam Cyg | ; | 2.21; | 5900; | occ; | 75; | 0; | 13253 |
| 22; | 2754.6; | 11-SEP-2004 | 23:08:35; | Bright; | | 38.5; | 144; | 18Del Cyg | ; | 2.86; | 11000; | occ; | 77; | 0; | 13253 |
| 23; | 2968.4; | 11-SEP-2004 | 23:12:09; | Bright; | | 36.5; | 89; | 5Alp Cep | ; | 2.45; | 8000; | occ; | 73; | 0; | 13253 |
| 24; | 3050.6; | 11-SEP-2004 | 23:13:31; | Bright; | | 44.0; | 74; | 11Bet Cas | ; | 2.27; | 6600; | occ; | 88; | 0; | 13253 |
| 25; | 3164.4; | 11-SEP-2004 | 23:15:25; | Bright; | | 45.5; | 76; | 27Gam Cas | ; | 2.30; | 30000; | occ; | 91; | 0; | 13253 |
| 26; | 3430.4; | 11-SEP-2004 | 23:19:51; | Bright; | | 38.0; | 49; | 1Alp UMi | ; | 1.99; | 6300; | occ; | 76; | 0; | 13253 |
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| 30; | 3942.9; | 11-SEP-2004 | 23:28:23; | Bright; | | 52.0; | 82; | 48Bet UMa | ; | 2.37; | 10600; | occ; | 104; | 0; | 13253 |
| 31; | 4098.6; | 11-SEP-2004 | 23:30:59; | Bright; | | 62.5; | 6; | 13Alp Aur | ; | 0.08; | 3400; | occ; | 125; | 0; | 13253 |
| 32; | 4375.9; | 11-SEP-2004 | 23:35:36; | Bright; | | 56.5; | 107; | 37The Aur | ; | 2.65; | 11000; | occ; | 113; | 0; | 13253 |
| 33; | 4540.0; | 11-SEP-2004 | 23:38:20; | Bright; | | 47.0; | 17; | 78Bet Gem | ; | 1.16; | 4500; | occ; | 94; | 0; | 13253 |
| 34; | 4670.5; | 11-SEP-2004 | 23:40:31; | Dark | ; | 93.5; | 28; | 12Bet Tau | ; | 1.65; | 15200; | occ; | 187; | 0; | 13253 |
| 35; | 4974.7; | 11-SEP-2004 | 23:45:35; | Dark | ; | 60.0; | 8; | 10Alp CMi | ; | 0.40; | 6500; | occ; | 120; | 0; | 13253 |
| 36; | 5250.8; | 11-SEP-2004 | 23:50:11; | Dark | ; | 99.0; | 14; | 58Alp Ori | ; | 0.87; | 3000; | occ; | 198; | 0; | 13253 |

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| 2; | -540.8; | 11-SEP-2004 | 23:54:15; | Dark | ; | 57.5; | 1; | 9Alp CMa | ; | -1.44; | 11000; | occ; | 115; | 0; | 13253 |
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| 4; | -177.7; | 12-SEP-2004 | 00:00:18; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0; | occ; | 119; | 0; | 13253 |
| 5; | -88.3; | 12-SEP-2004 | 00:01:48; | Dark | ; | 43.0; | 161; | Tau Pup | ; | 2.93; | 4500; | occ; | 86; | 0; | 13253 |
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| 7; | 560.9; | 12-SEP-2004 | 00:12:37; | Dark | ; | 38.0; | 135; | Bet Hyi | ; | 2.82; | 5800; | occ; | 76; | 0; | 13254 |
| 8; | 694.8; | 12-SEP-2004 | 00:14:51; | Dark | ; | 46.0; | 9; | Alp Eri | ; | 0.45; | 24000; | occ; | 92; | 0; | 13254 |
| 9; | 895.2; | 12-SEP-2004 | 00:18:11; | Dark | ; | 41.0; | 148; | Alp Tuc | ; | 2.88; | 4100; | occ; | 82; | 0; | 13254 |
| 10; | 1116.5; | 12-SEP-2004 | 00:21:53; | Dark | ; | 42.0; | 31; | Alp Gru | ; | 1.73; | 15200; | occ; | 84; | 0; | 13254 |
| 11; | 1282.1; | 12-SEP-2004 | 00:24:38; | Dark | ; | 41.0; | 172; | Gam Gru | ; | 3.00; | 13100; | occ; | 82; | 0; | 13254 |
| 12; | 1367.2; | 12-SEP-2004 | 00:26:03; | Dark | ; | 50.5; | 18; | 24Alp PsA | ; | 1.17; | 9700; | occ; | 101; | 0; | 13254 |
| 13; | 1514.8; | 12-SEP-2004 | 00:28:31; | Dark | ; | 71.0; | 52; | 16Bet Cet | ; | 2.04; | 4500; | occ; | 142; | 0; | 13254 |
| 14; | 1641.1; | 12-SEP-2004 | 00:30:37; | Dark | ; | 42.0; | 142; | 49Del Cap | ; | 2.85; | 8900; | occ; | 84; | 0; | 13254 |
| 15; | 1897.7; | 12-SEP-2004 | 00:34:54; | Bright; | | 39.5; | 162; | 34Alp Aqr | ; | 2.94; | 5350; | occ; | 79; | 0; | 13254 |
| 16; | 2075.0; | 12-SEP-2004 | 00:37:51; | Bright; | | 42.5; | 61; | 8Eps Peg | ; | 2.10; | 3900; | occ; | 85; | 0; | 13254 |
| 17; | 2187.4; | 12-SEP-2004 | 00:39:43; | Bright; | | 43.5; | 90; | 54Alp Peg | ; | 2.49; | 11000; | occ; | 87; | 0; | 13254 |
| 18; | 2302.4; | 12-SEP-2004 | 00:41:38; | Bright; | | 54.5; | 140; | 88Gam Peg | ; | 2.83; | 26000; | occ; | 109; | 0; | 13254 |
| 19; | 2442.1; | 12-SEP-2004 | 00:43:58; | Bright; | | 41.5; | 164; | 44Eta Peg | ; | 2.95; | 5400; | occ; | 83; | 0; | 13254 |
| 20; | 2633.0; | 12-SEP-2004 | 00:47:09; | Bright; | | 40.0; | 66; | 37Gam Cyg | ; | 2.21; | 5900; | occ; | 80; | 0; | 13254 |
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| 2; | -4124.9; | 19-SEP-2004 | 08:37:58; | Bright; | ; | 38.5; | 162; | 34Alp | Aqr | ; | 2.94; | 5350; | occ; | 77; | 0; | 13359 |
| 3; | -3943.3; | 19-SEP-2004 | 08:40:59; | Bright; | ; | 39.0; | 61; | 8Eps | Peg | ; | 2.10; | 3900; | occ; | 78; | 0; | 13359 |
| 4; | -3797.4; | 19-SEP-2004 | 08:43:25; | Bright; | ; | 47.5; | 140; | 88Gam | Peg | ; | 2.83; | 26000; | occ; | 95; | 0; | 13359 |
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| 6; | -3496.6; | 19-SEP-2004 | 08:48:26; | Bright; | ; | 39.5; | 92; | 53Eps | Cyg | ; | 2.50; | 4500; | occ; | 79; | 0; | 13359 |
| 7; | -3366.2; | 19-SEP-2004 | 08:50:36; | Bright; | ; | 41.0; | 66; | 37Gam | Cyg | ; | 2.21; | 5900; | occ; | 82; | 0; | 13359 |
| 8; | -3230.9; | 19-SEP-2004 | 08:52:52; | Bright; | ; | 56.0; | 53; | 43Bet | And | ; | 2.05; | 3300; | occ; | 112; | 0; | 13359 |
| 9; | -3061.5; | 19-SEP-2004 | 08:55:41; | Bright; | ; | 37.5; | 89; | 5Alp | Cep | ; | 2.45; | 8000; | occ; | 75; | 0; | 13359 |
| 10; | -2931.0; | 19-SEP-2004 | 08:57:52; | Bright; | ; | 43.0; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 86; | 0; | 13359 |
| 11; | -2606.9; | 19-SEP-2004 | 09:03:16; | Bright; | ; | 35.5; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 71; | 0; | 13359 |
| 12; | -2491.8; | 19-SEP-2004 | 09:05:11; | Bright; | ; | 68.0; | 35; | 33Alp | Per | ; | 1.79; | 6250; | occ; | 136; | 0; | 13359 |
| 13; | -2378.8; | 19-SEP-2004 | 09:07:04; | Bright; | ; | 71.0; | 175; | 39Del | Per | ; | 3.01; | 19400; | occ; | 142; | 0; | 13359 |
| 14; | -2156.3; | 19-SEP-2004 | 09:10:46; | Bright; | ; | 37.0; | 36; | 50Alp | UMa | ; | 1.80; | 6300; | occ; | 74; | 0; | 13359 |
| 15; | -2068.5; | 19-SEP-2004 | 09:12:14; | Bright; | ; | 36.5; | 82; | 48Bet | UMa | ; | 2.37; | 10600; | occ; | 73; | 0; | 13359 |
| 16; | -1882.6; | 19-SEP-2004 | 09:15:20; | Bright; | ; | 36.0; | 174; | 52Psi | UMa | ; | 3.00; | 4400; | occ; | 72; | 0; | 13359 |
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| 23; | -257.3; | 19-SEP-2004 | 09:42:25; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 13359 |
| 24; | -146.7; | 19-SEP-2004 | 09:44:16; | Dark | ; | 43.0; | 46; | Del | Vel | ; | 1.95; | 10600; | occ; | 86; | 0; | 13359 |
| 25; | -53.1; | 19-SEP-2004 | 09:45:50; | Dark | ; | 47.5; | 41; | Eps | Car | ; | 1.86; | 4100; | occ; | 95; | 0; | 13359 |
| 26; | 55.2; | 19-SEP-2004 | 09:47:38; | Dark | ; | 57.0; | 2; | Alp | Car | ; | -0.74; | 7000; | occ; | 114; | 0; | 13360 |
| 27; | 351.3; | 19-SEP-2004 | 09:52:34; | Dark | ; | 230.0; | 7; | 19Bet | Ori | ; | 0.10; | 14000; | occ; | 460; | 0; | 13360 |
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| 32; | 1302.2; | 19-SEP-2004 | 10:08:25; | Dark | ; | 40.0; | 172; | Gam | Gru | ; | 3.00; | 13100; | occ; | 80; | 0; | 13360 |
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| 34; | 1532.2; | 19-SEP-2004 | 10:12:15; | Dark | ; | 60.0; | 52; | 16Bet | Cet | ; | 2.04; | 4500; | occ; | 120; | 0; | 13360 |
| 35; | 1660.1; | 19-SEP-2004 | 10:14:23; | Dark | ; | 41.0; | 142; | 49Del | Cap | ; | 2.85; | 8900; | occ; | 82; | 0; | 13360 |

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| 3; | -3943.6; | 19-SEP-2004 | 12:02:11; | Bright; | ; | 39.5; | 61; | 8Eps | Peg | ; | 2.10; | 3900; | occ; | 79; | 0; | 13361 |
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| 11; | -2493.9; | 19-SEP-2004 | 12:26:20; | Bright; | ; | 72.0; | 35; | 33Alp | Per | ; | 1.79; | 6250; | occ; | 144; | 0; | 13361 |
| 12; | -2380.9; | 19-SEP-2004 | 12:28:13; | Bright; | ; | 66.5; | 175; | 39Del | Per | ; | 3.01; | 19400; | occ; | 133; | 0; | 13361 |
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