

# GOMOS Daily Report 30-JUL-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 | 01AUG2004 05:01:23                            |
| Data source version       | GOMOS/4.02                                    |
| Start time of products    | QDS_YESTERDAY(/START)-1D (30JUL2004 00:00:00) |
| Stop time of products     | QDS_YESTERDAY(/STOP)-1D (31JUL2004 00:00:00)  |

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

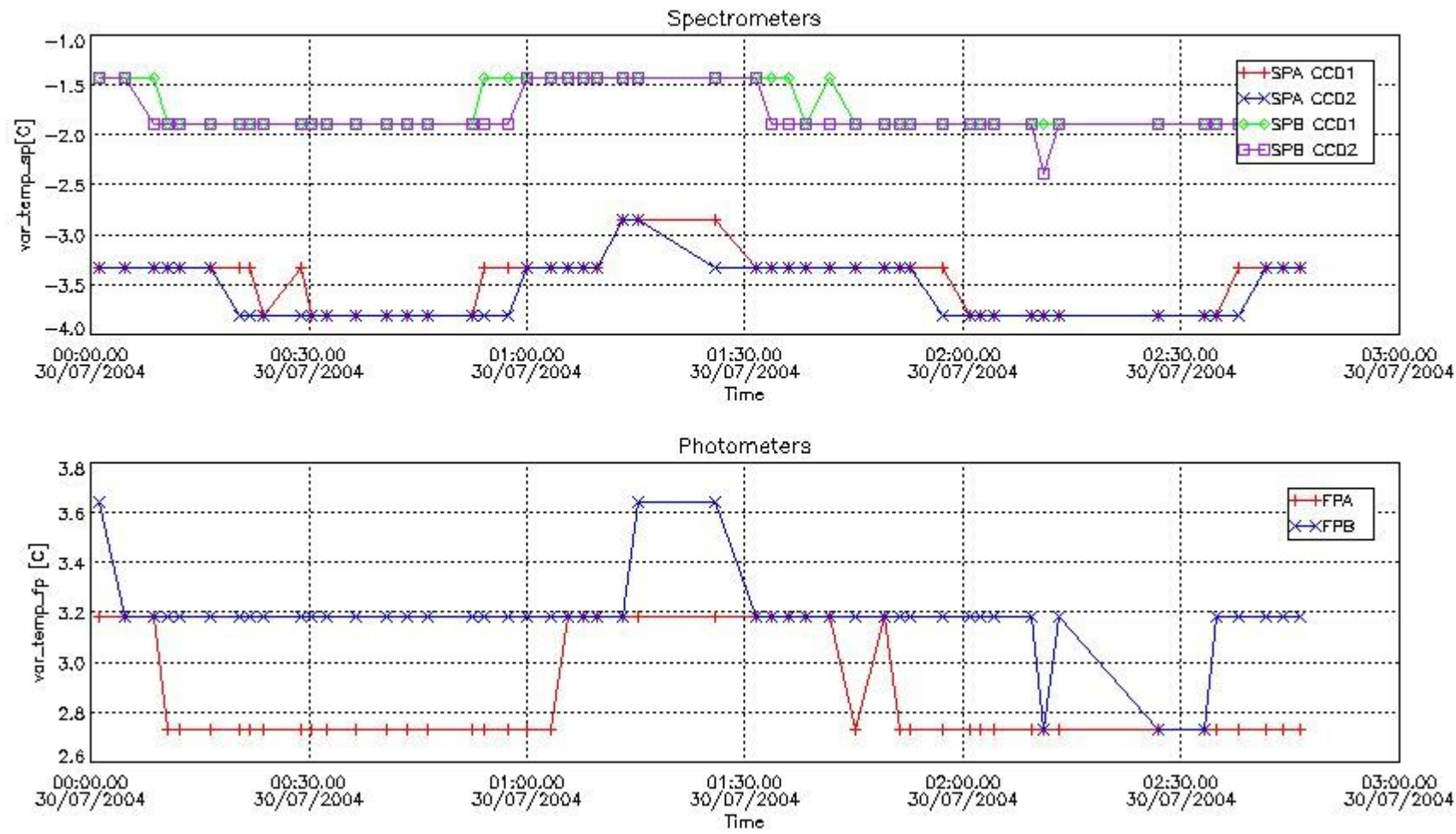
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040730_000108_000000492029_00045_12624_0008.N1 | 30-JUL-2004 00:01:08 | Bright   | 48.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 97      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_000437_000000742029_00045_12624_0009.N1 | 30-JUL-2004 00:04:37 | Bright   | 74.000   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 148     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_000839_000000442029_00045_12624_0010.N1 | 30-JUL-2004 00:08:39 | Bright   | 44.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 88      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_001033_000000442029_00045_12624_0011.N1 | 30-JUL-2004 00:10:33 | Bright   | 44.000   | 57      | 34Sig Sgr | 2.0660   | 26000.    | 88      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_001209_000000572029_00045_12624_0012.N1 | 30-JUL-2004 00:12:09 | Bright   | 57.000   | 142     | 49Del Cap | 2.8500   | 8900.0    | 114     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_001632_000000572029_00045_12624_0013.N1 | 30-JUL-2004 00:16:32 | Bright   | 57.000   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 114     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_002024_000000402029_00045_12624_0014.N1 | 30-JUL-2004 00:20:24 | Bright   | 40.000   | 11      | 53Alp Aql | 0.76500  | 8000.0    | 80      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_002147_000000372029_00045_12624_0015.N1 | 30-JUL-2004 00:21:47 | Bright   | 36.500   | 168     | 17Zet Aql | 2.9860   | 11000.    | 73      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_002340_000000702029_00045_12624_0016.N1 | 30-JUL-2004 00:23:40 | Bright   | 69.500   | 61      | 8Eps Peg  | 2.1000   | 3900.0    | 139     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_002851_000000362029_00045_12624_0017.N1 | 30-JUL-2004 00:28:51 | Bright   | 36.000   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 72      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_003023_000000412029_00045_12624_0018.N1 | 30-JUL-2004 00:30:23 | Bright   | 41.000   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 82      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_003233_000000442029_00045_12624_0019.N1 | 30-JUL-2004 00:32:33 | Bright   | 44.000   | 69      | 33Gam Dra | 2.2310   | 3800.0    | 88      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_003632_000000382029_00045_12624_0020.N1 | 30-JUL-2004 00:36:32 | Bright   | 37.500   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 75      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_004041_000000382029_00045_12624_0021.N1 | 30-JUL-2004 00:40:41 | Bright   | 37.500   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 75      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_004324_000000342029_00045_12624_0022.N1 | 30-JUL-2004 00:43:24 | Bright   | 34.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 68      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_004617_000000512029_00045_12624_0023.N1 | 30-JUL-2004 00:46:17 | Bright   | 50.500   | 76      | 27Gam Cas | 2.3000   | 30000.    | 101     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_005230_000000502029_00045_12624_0024.N1 | 30-JUL-2004 00:52:30 | Bright   | 50.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 100     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_005408_000000522029_00045_12624_0025.N1 | 30-JUL-2004 00:54:08 | Bright   | 51.500   | 35      | 33Alp Per | 1.7950   | 6250.0    | 103     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_005723_000000602029_00045_12624_0026.N1 | 30-JUL-2004 00:57:23 | Twilight | 60.000   | 79      | 26Bet Per | 2.3100   | 13100.    | 120     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_010001_000000962029_00045_12624_0027.N1 | 30-JUL-2004 01:00:01 | Twilight | 95.500   | 173     | 4Bet Tri  | 3.0040   | 8900.0    | 191     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_010317_000000442029_00045_12624_0028.N1 | 30-JUL-2004 01:03:17 | Twilight | 43.500   | 176     | 23Zet Tau | 3.0200   | 22000.    | 87      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_010542_000000622029_00045_12624_0029.N1 | 30-JUL-2004 01:05:42 | Twilight | 62.000   | 13      | 87Alp Tau | 0.86700  | 3800.0    | 124     | 12624 | No          |
| GOM_TRA_1PNPDE20040730_010743_000000462029_00045_12624_0030.N1 | 30-JUL-2004 01:07:43 | Twilight | 46.000   | 27      | 24Gam Ori | 1.6360   | 26000.    | 92      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_010938_000000412029_00045_12624_0031.N1 | 30-JUL-2004 01:09:38 | Dark     | 41.000   | 30      | 46Eps Ori | 1.6940   | 30000.    | 82      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_011303_000000442029_00045_12624_0000.N1 | 30-JUL-2004 01:13:03 | Dark     | 44.000   | 1       | 9Alp CMa  | -1.4400  | 11000.    | 88      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_011511_000000432029_00045_12624_0001.N1 | 30-JUL-2004 01:15:11 | Dark     | 43.000   | 139     | 9Bet Lep  | 2.8330   | 5600.0    | 86      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_012551_000000492029_00045_12624_0002.N1 | 30-JUL-2004 01:25:51 | Dark     | 48.500   | 157     | The1Eri   | 2.9060   | 9300.0    | 97      | 12624 | No          |
| GOM_TRA_1PNPDE20040730_013128_000000472029_00046_12625_0003.N1 | 30-JUL-2004 01:31:28 | Dark     | 47.000   | 9       | Alp Eri   | 0.45300  | 24000.    | 94      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_013337_000000402029_00046_12625_0004.N1 | 30-JUL-2004 01:33:37 | Dark     | 40.000   | 135     | Bet Hyi   | 2.8200   | 5800.0    | 80      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_013604_000000712029_00046_12625_0005.N1 | 30-JUL-2004 01:36:04 | Dark     | 71.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 142     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_013825_000000452029_00046_12625_0006.N1 | 30-JUL-2004 01:38:25 | Twilight | 45.000   | 148     | Alp Tuc   | 2.8780   | 4100.0    | 90      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_014142_000000502029_00046_12625_0007.N1 | 30-JUL-2004 01:41:42 | Bright   | 49.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 99      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_014513_000000762029_00046_12625_0008.N1 | 30-JUL-2004 01:45:13 | Bright   | 75.500   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 151     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_014915_000000452029_00046_12625_0009.N1 | 30-JUL-2004 01:49:15 | Bright   | 44.500   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 89      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_015111_000000392029_00046_12625_0010.N1 | 30-JUL-2004 01:51:11 | Bright   | 39.000   | 57      | 34Sig Sgr | 2.0660   | 26000.    | 78      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_015245_000000572029_00046_12625_0011.N1 | 30-JUL-2004 01:52:45 | Bright   | 57.000   | 142     | 49Del Cap | 2.8500   | 8900.0    | 114     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_015707_000000562029_00046_12625_0012.N1 | 30-JUL-2004 01:57:07 | Bright   | 55.500   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 111     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_020057_000000432029_00046_12625_0013.N1 | 30-JUL-2004 02:00:57 | Bright   | 42.500   | 11      | 53Alp Aql | 0.76500  | 8000.0    | 85      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_020220_000000412029_00046_12625_0014.N1 | 30-JUL-2004 02:02:20 | Bright   | 41.000   | 168     | 17Zet Aql | 2.9860   | 11000.    | 82      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_020414_000000712029_00046_12625_0015.N1 | 30-JUL-2004 02:04:14 | Bright   | 71.000   | 61      | 8Eps Peg  | 2.1000   | 3900.0    | 142     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_020924_000000392029_00046_12625_0016.N1 | 30-JUL-2004 02:09:24 | Bright   | 39.000   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 78      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_021058_000000452029_00046_12625_0017.N1 | 30-JUL-2004 02:10:58 | Bright   | 44.500   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 89      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_021309_000000432029_00046_12625_0018.N1 | 30-JUL-2004 02:13:09 | Bright   | 42.500   | 69      | 33Gam Dra | 2.2310   | 3800.0    | 85      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_022653_000000492029_00046_12625_0000.N1 | 30-JUL-2004 02:26:53 | Bright   | 48.500   | 76      | 27Gam Cas | 2.3000   | 30000.    | 97      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_023307_000000502029_00046_12625_0001.N1 | 30-JUL-2004 02:33:07 | Bright   | 49.500   | 160     | 23Gam Per | 2.9300   | 4700.0    | 99      | 12625 | No          |
| GOM_TRA_1PNPDE20040730_023444_000000502029_00046_12625_0002.N1 | 30-JUL-2004 02:34:44 | Bright   | 50.000   | 35      | 33Alp Per | 1.7950   | 6250.0    | 100     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_023759_000000562029_00046_12625_0003.N1 | 30-JUL-2004 02:37:59 | Twilight | 56.000   | 79      | 26Bet Per | 2.3100   | 13100.    | 112     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_024137_000000552029_00046_12625_0004.N1 | 30-JUL-2004 02:41:37 | Twilight | 54.500   | 150     | 44Zet Per | 2.8900   | 28000.    | 109     | 12625 | No          |
| GOM_TRA_1PNPDE20040730_024353_000000422029_00046_12625_0005.N1 | 30-JUL-2004 02:43:53 | Twilight | 42.000   | 176     | 23Zet Tau | 3.0200   | 22000.    | 84      | 12625 | No          |

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



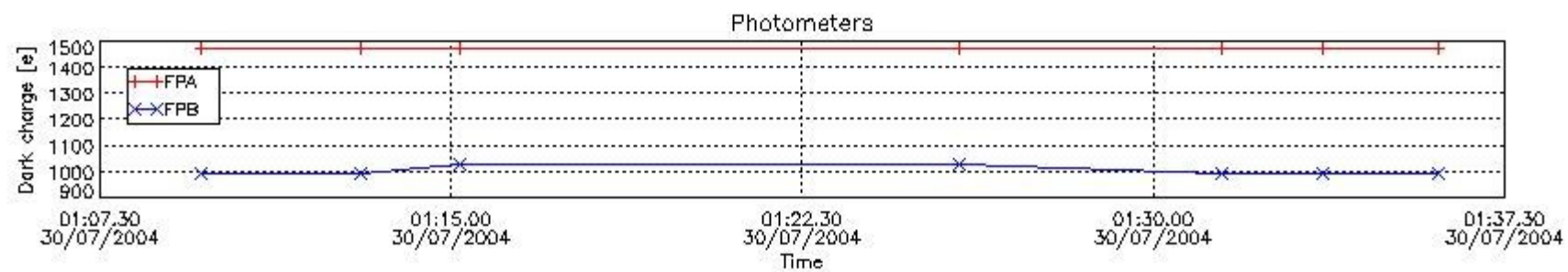
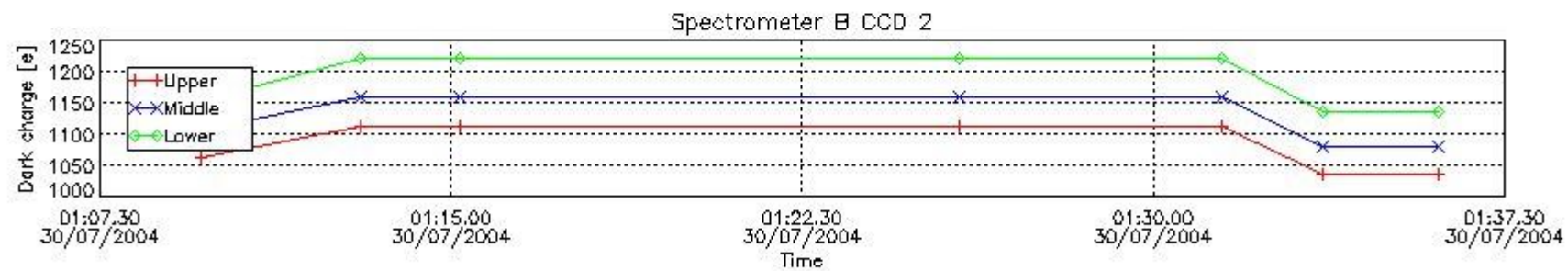
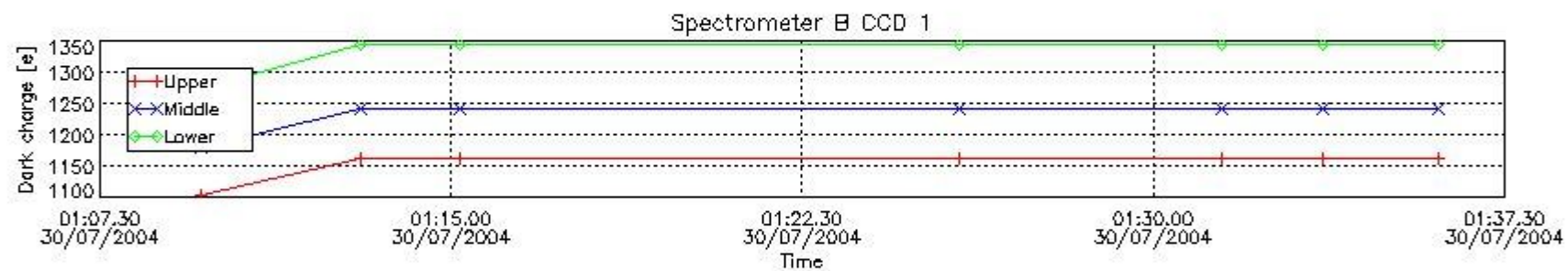
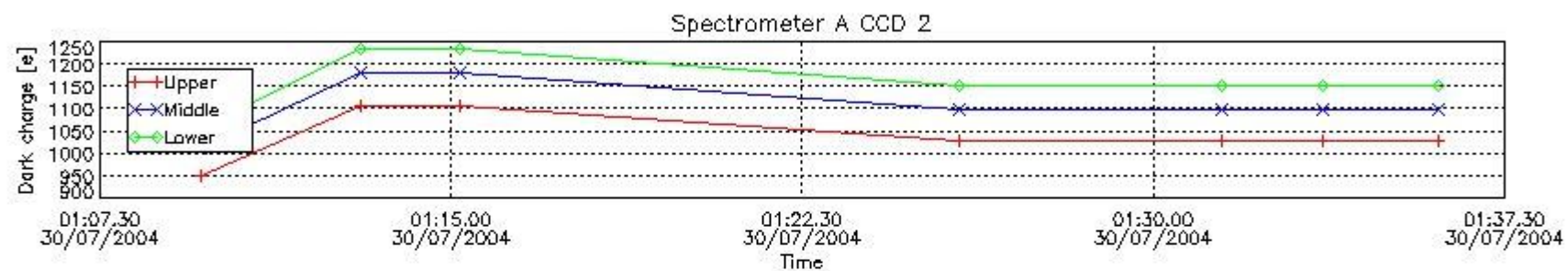
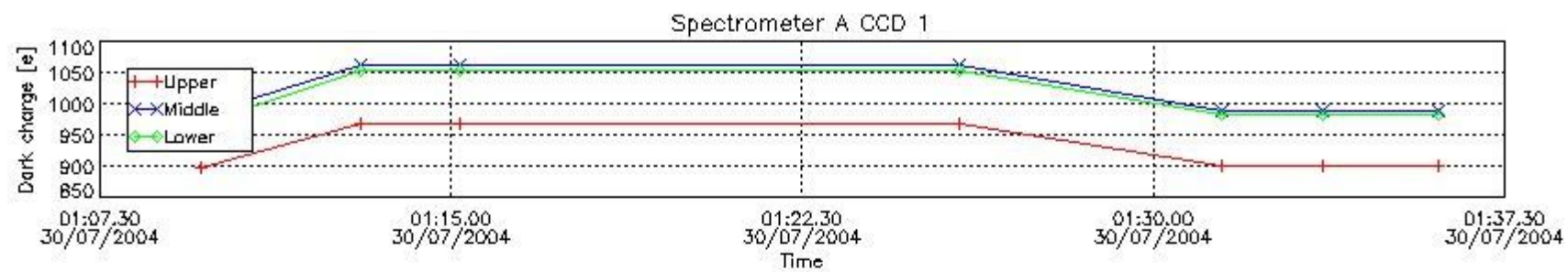
### 4. Overview of dark signal processing per product

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

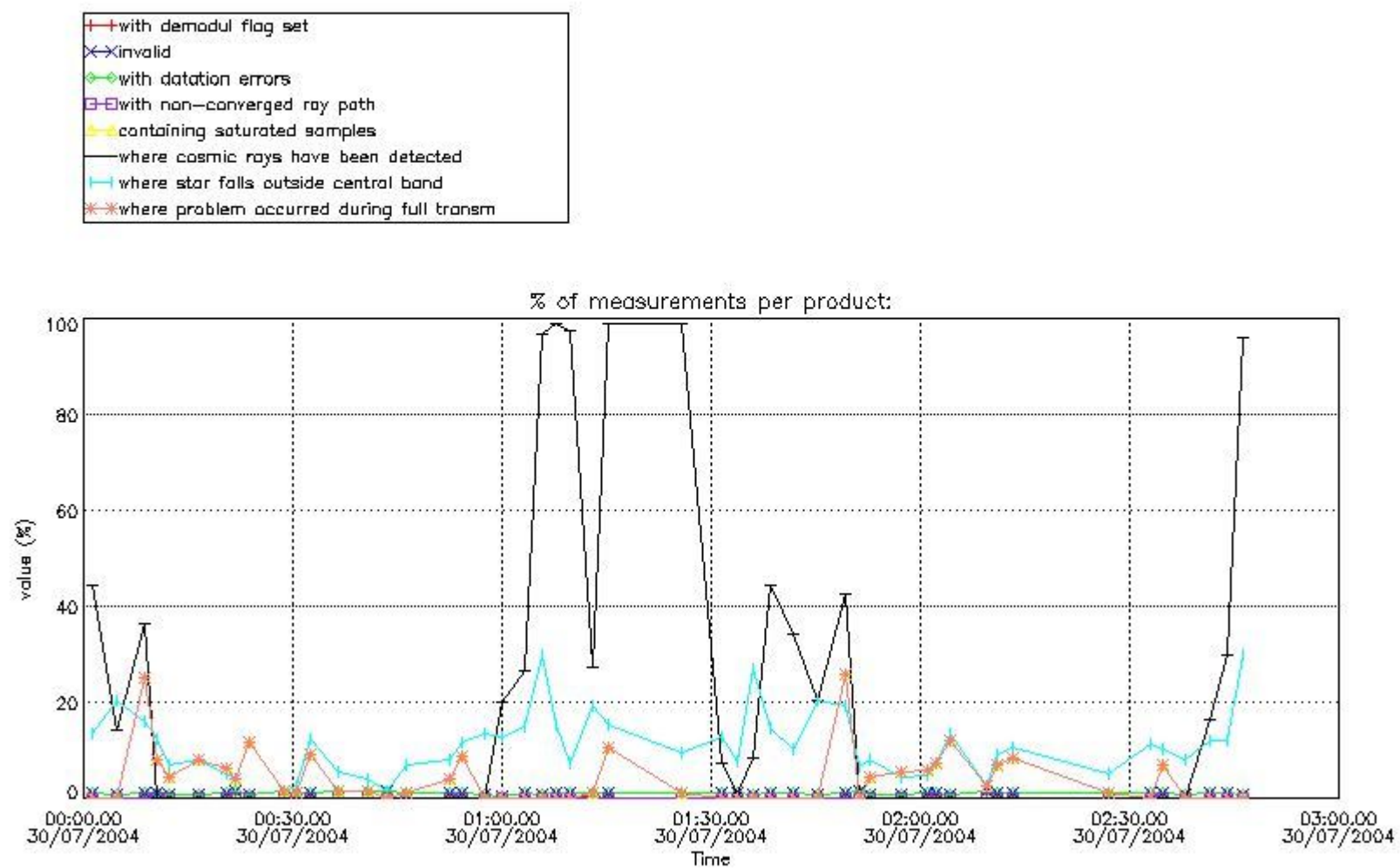
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

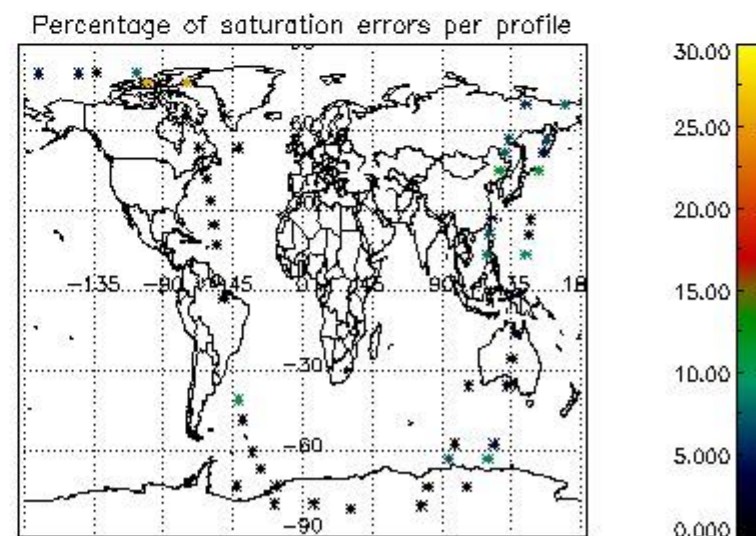
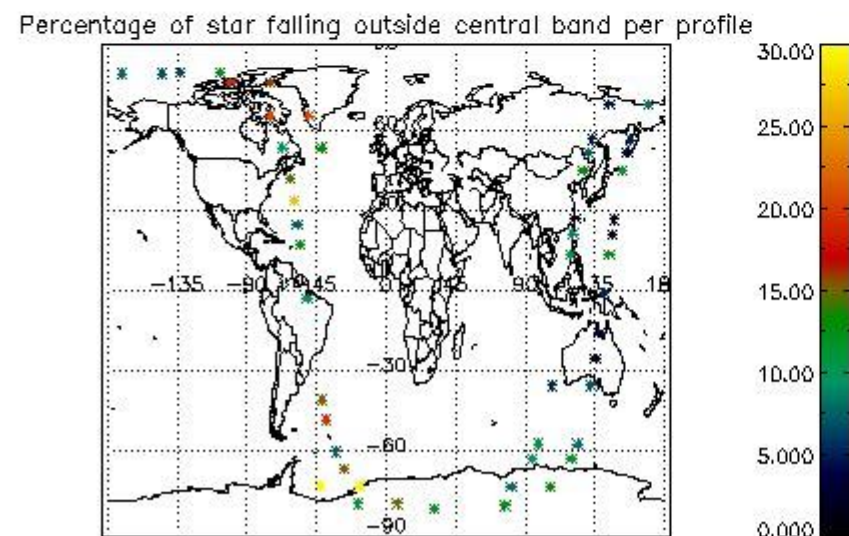
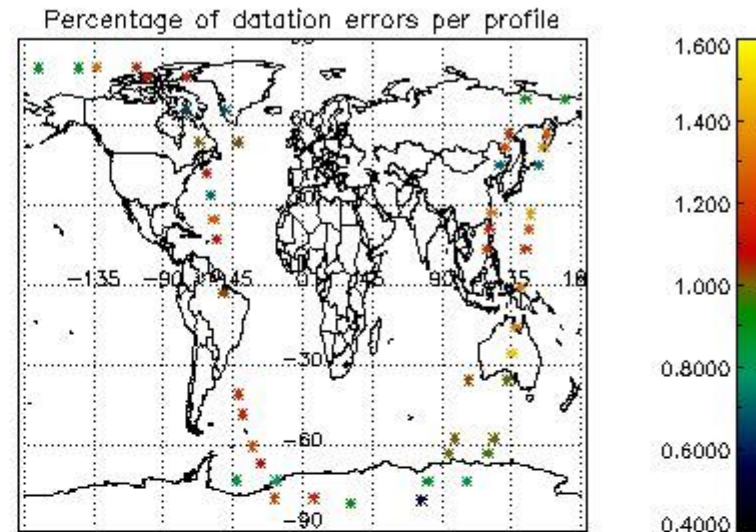
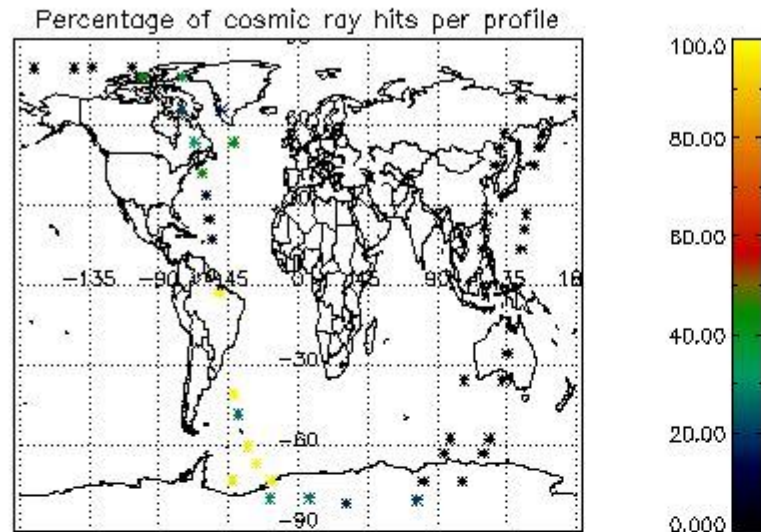


|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 16.0000 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



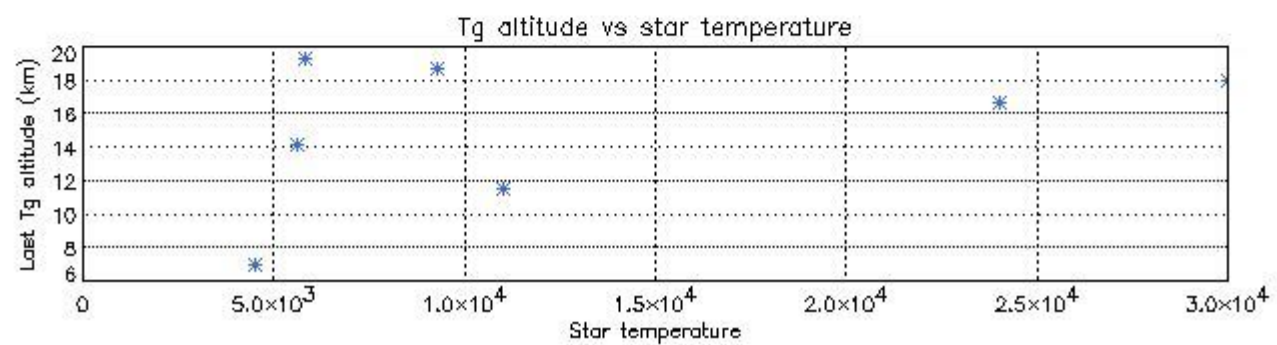
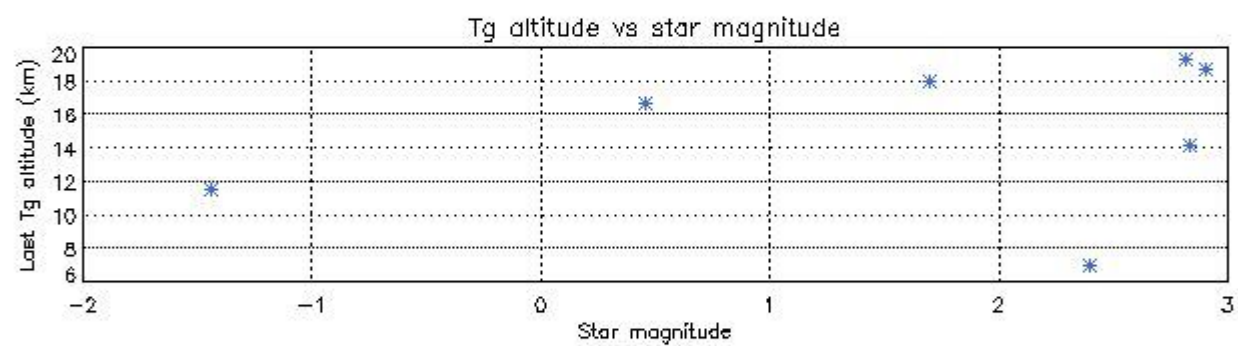
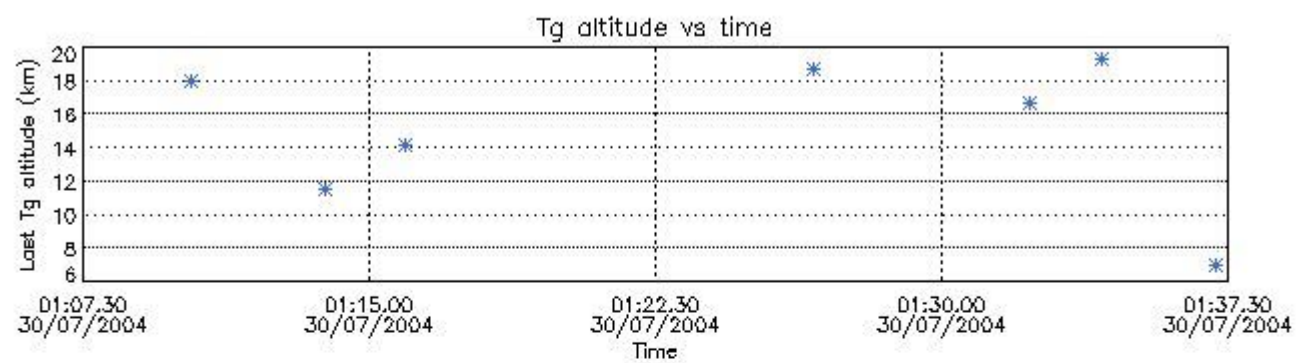
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 15.018 | 19.021 | 13.654   |
| St. deviation:  | 4.4921 | 4.0099 | 4.0555   |
| Maximum:        | 19.293 | 28.712 | 18.980   |
| Minimum:        | 6.9679 | 10.991 | 6.4311   |
| Number of data: | 7.0000 | 33.000 | 10.000   |

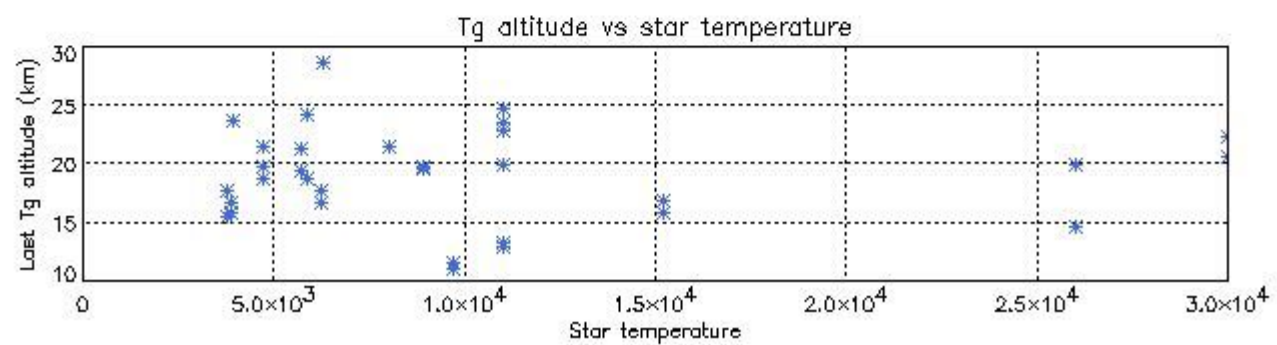
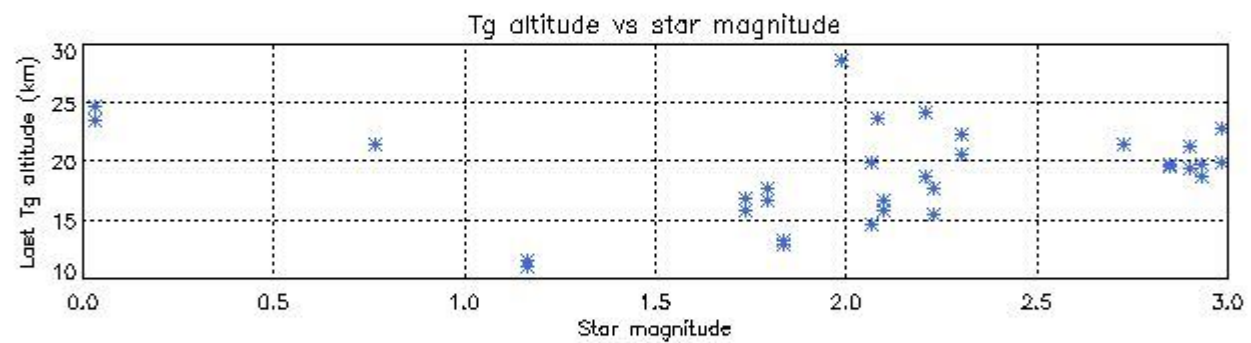
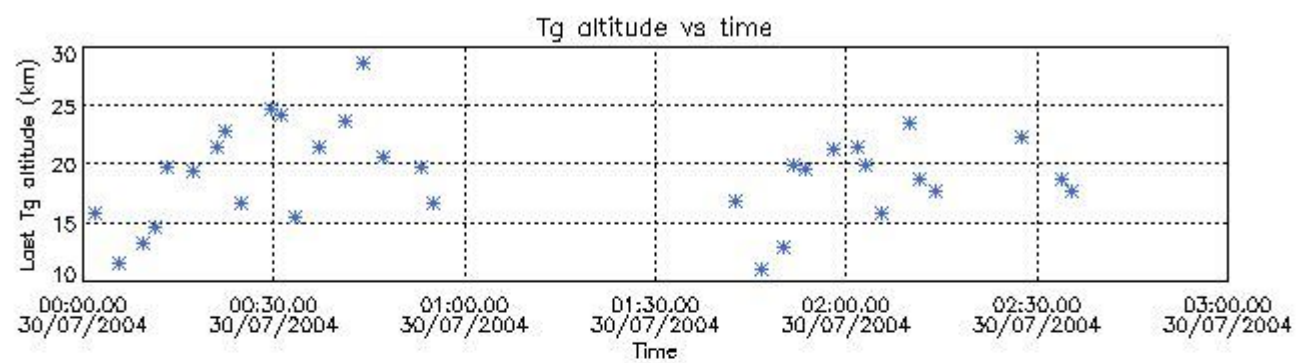
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

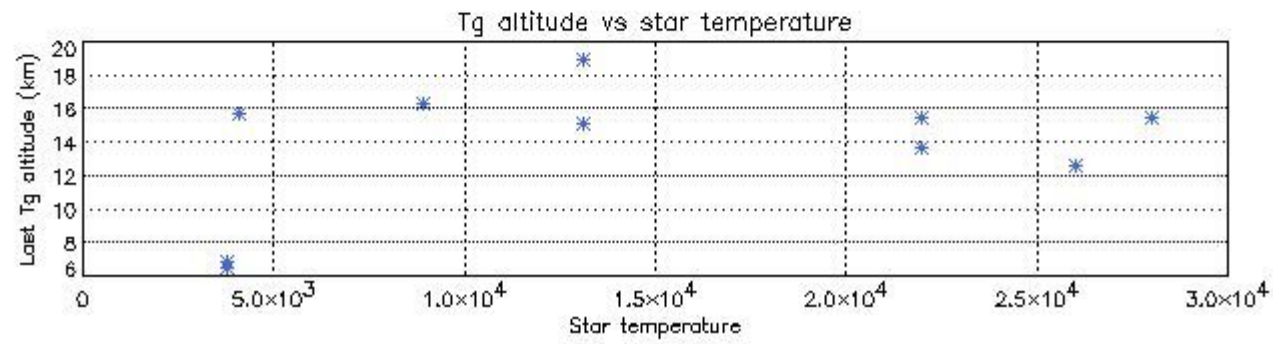
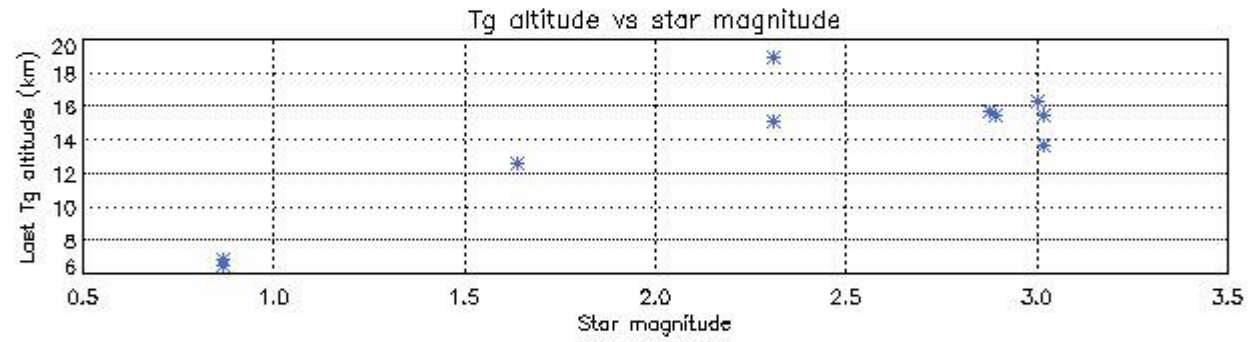
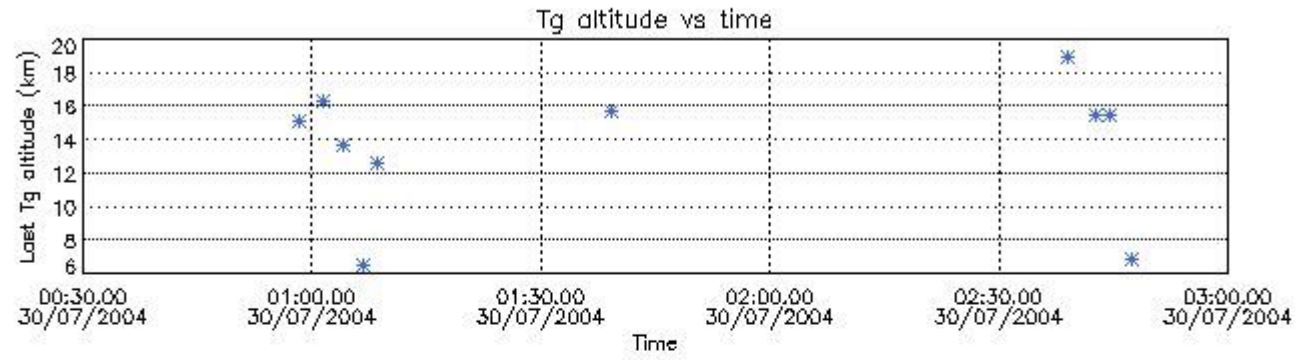
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



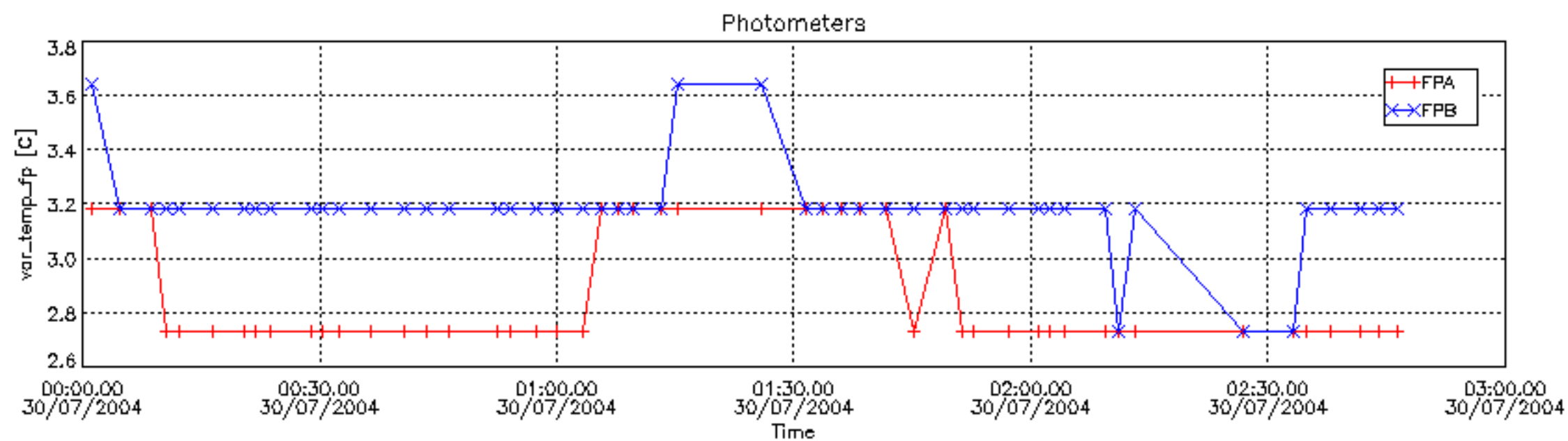
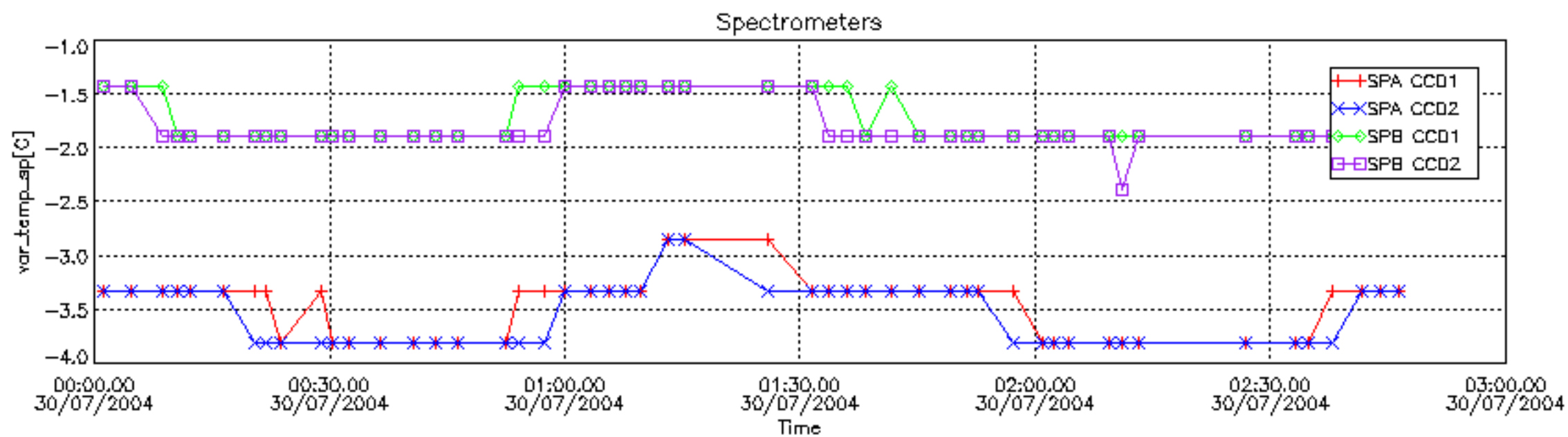
Tangent altitude at which the star is lost

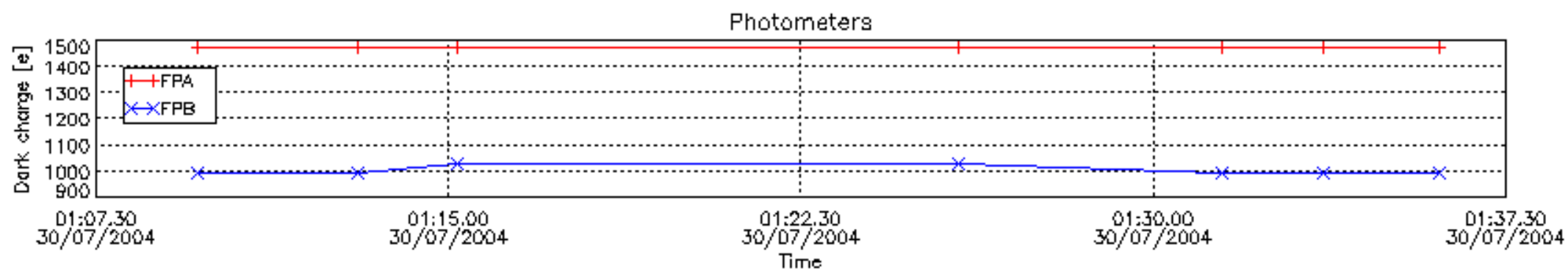
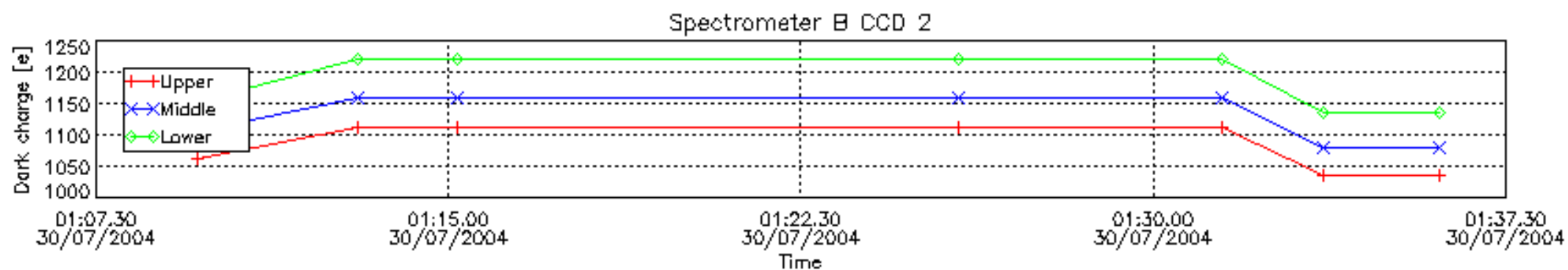
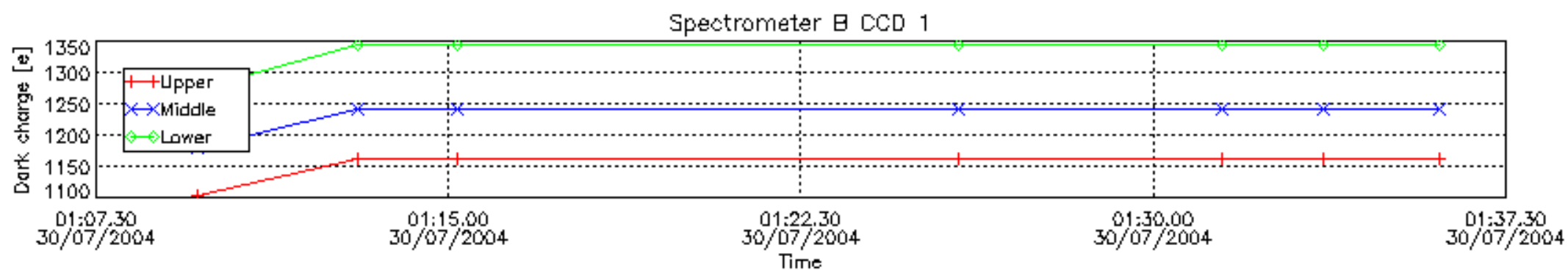
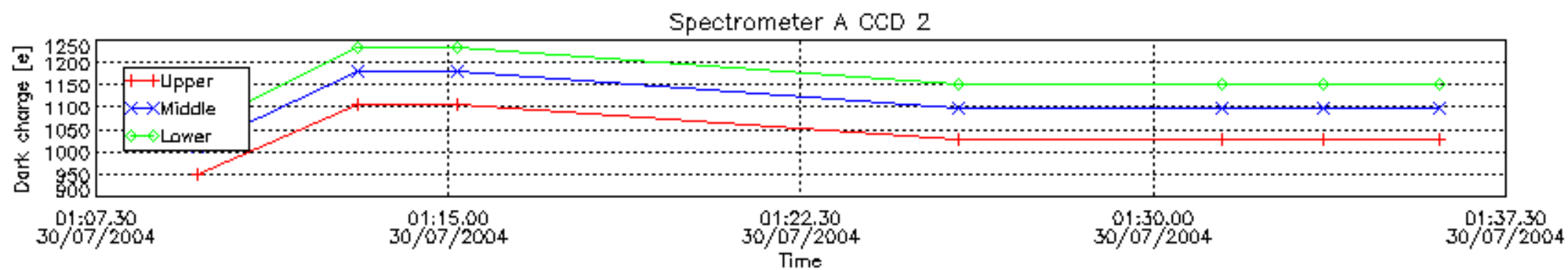
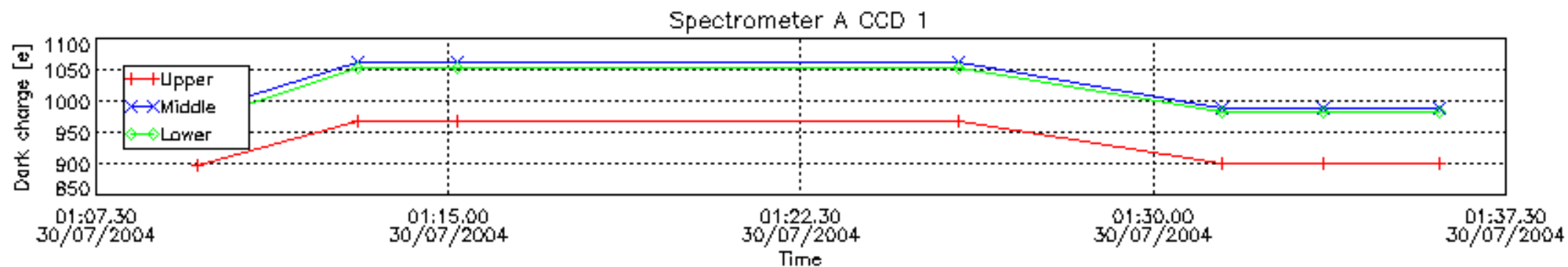


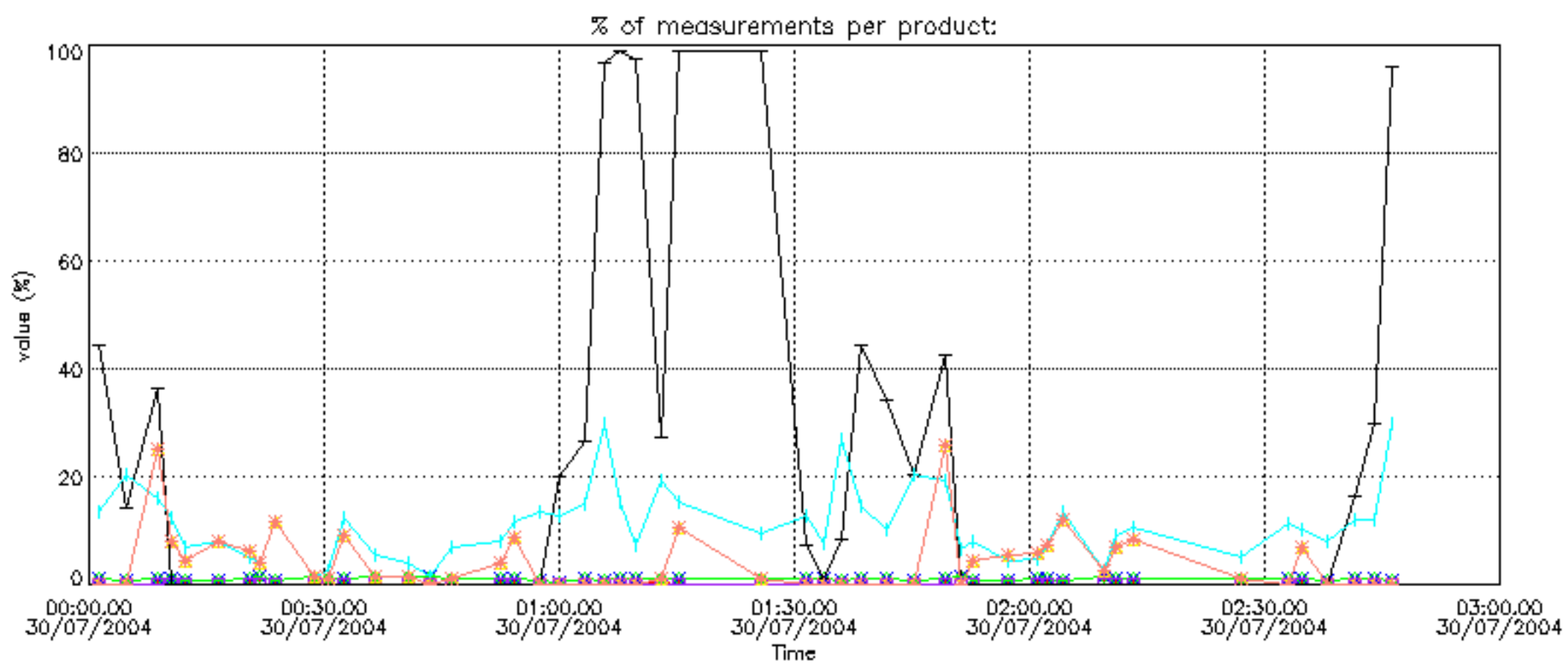
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:           | 1460.7     | 1447.0     | 1461.9     | 1447.8     |
| St. deviation:  | 4.8248     | 5.7266     | 6.0309     | 6.7240     |
| Maximum:        | 1490.0     | 1474.0     | 1508.0     | 1503.0     |
| Minimum:        | 1453.0     | 1426.0     | 1444.0     | 1437.0     |
| Number of data: | 8800.0     | 8800.0     | 42600.     | 42600.     |

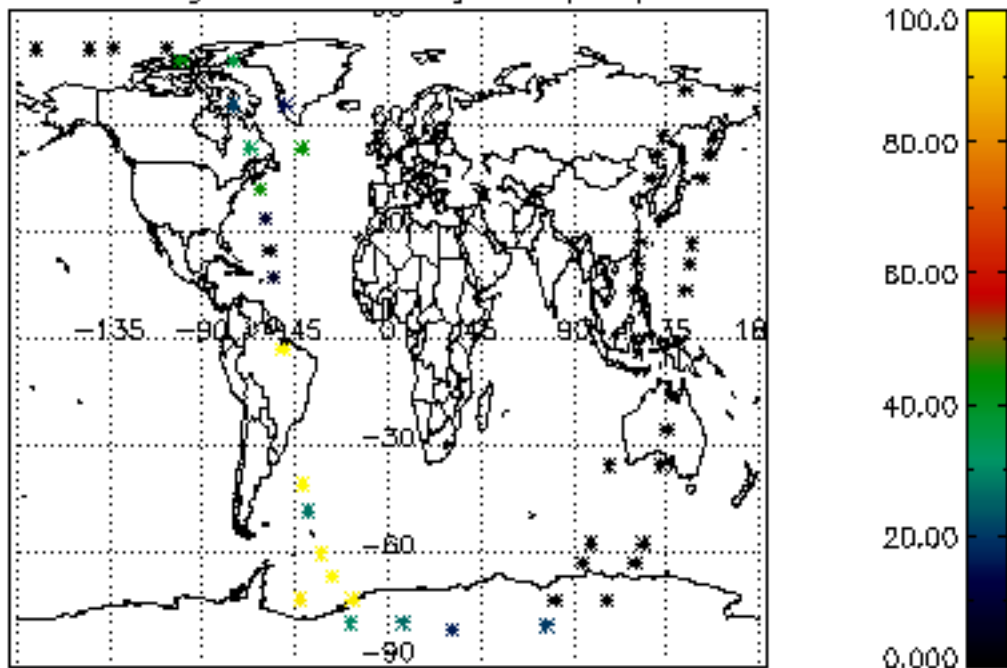




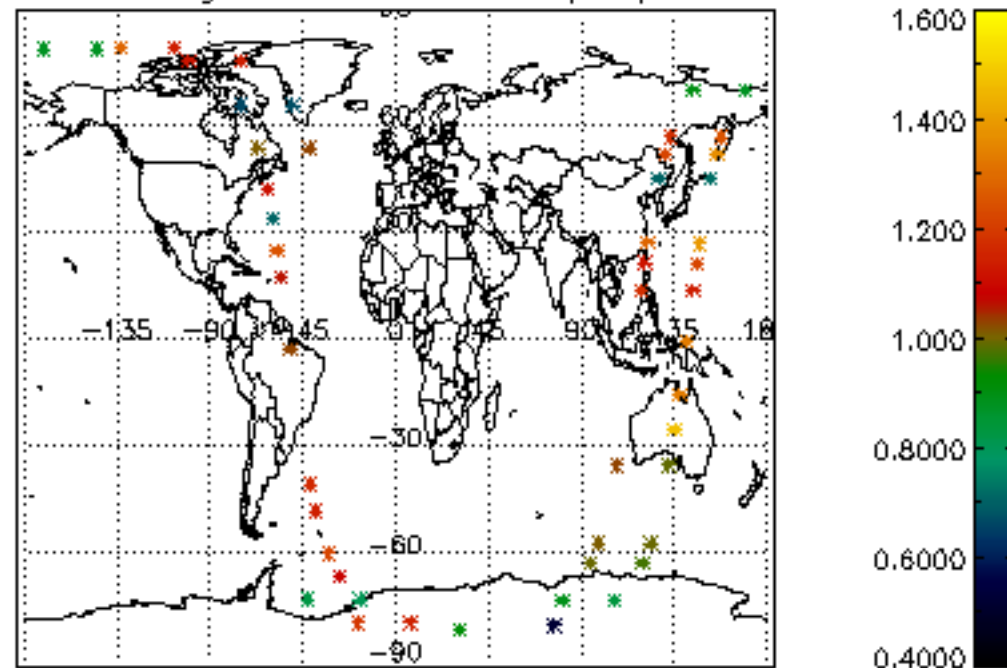




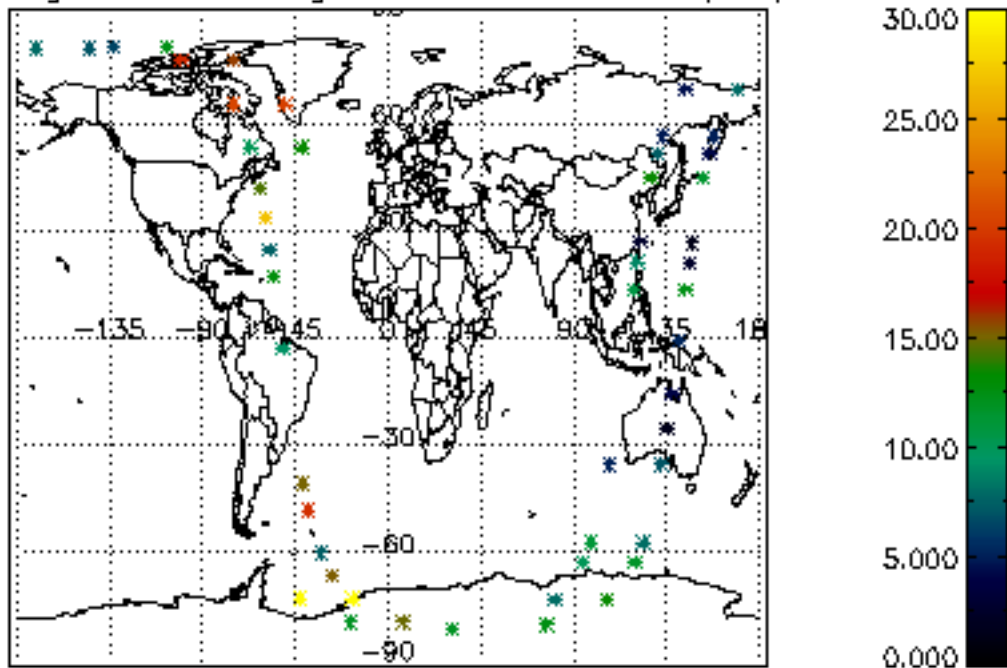
Percentage of cosmic ray hits per profile



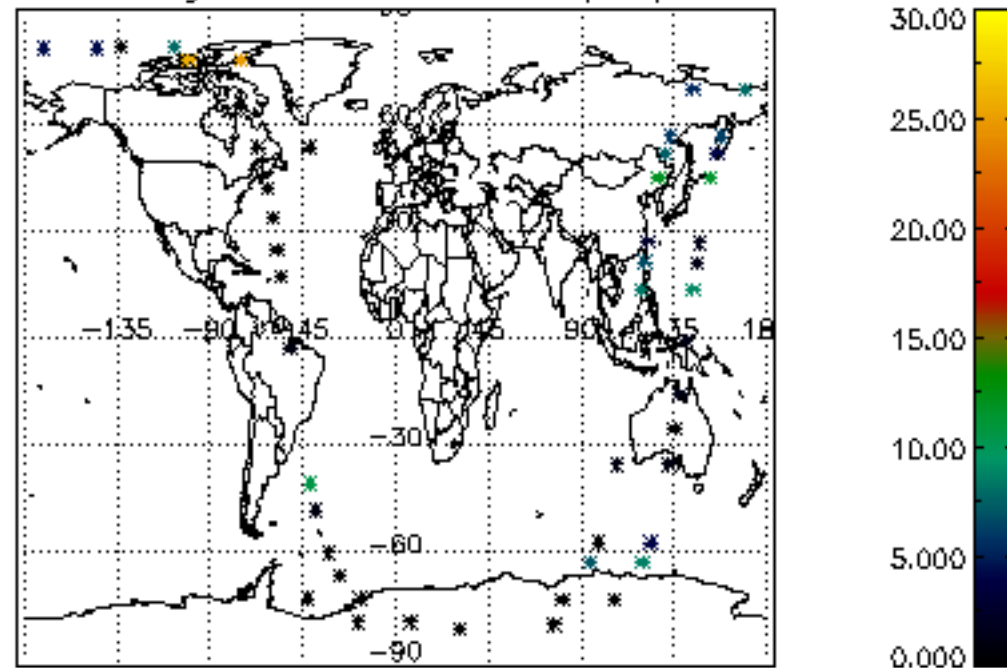
Percentage of datation errors per profile



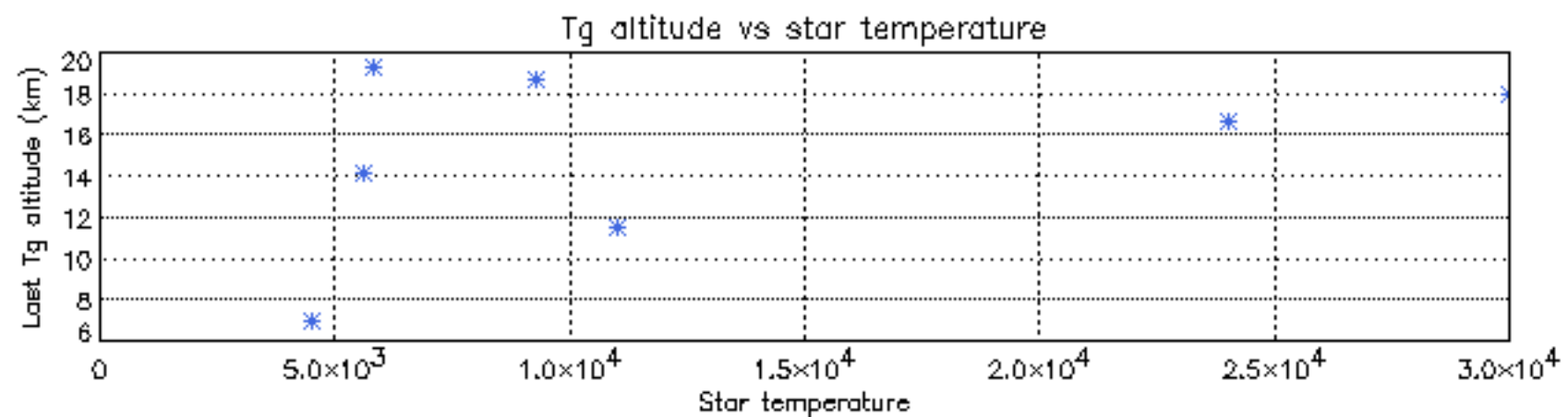
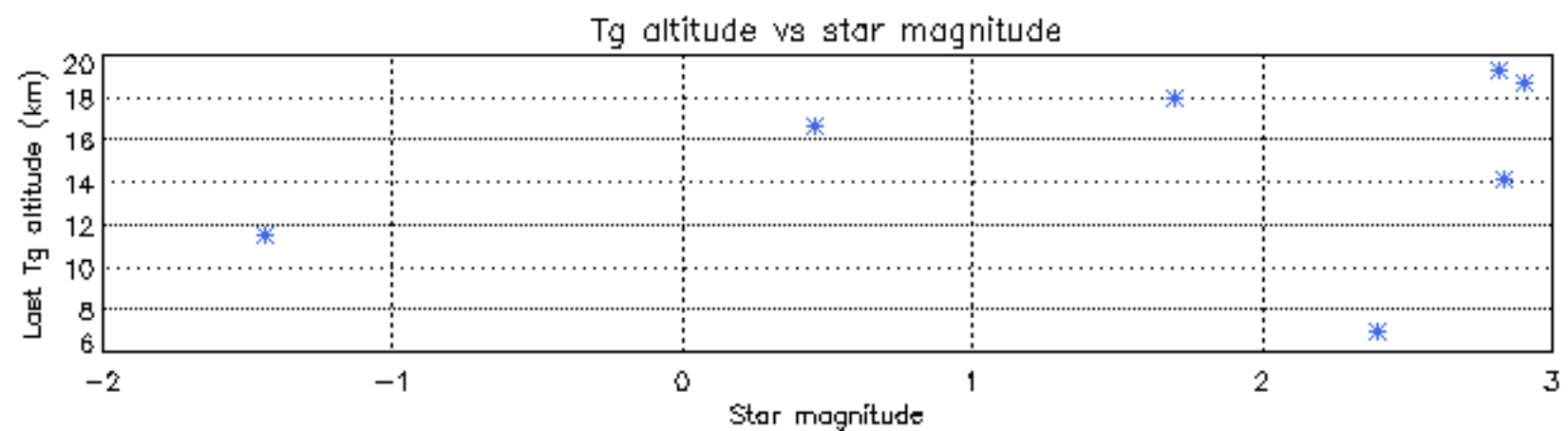
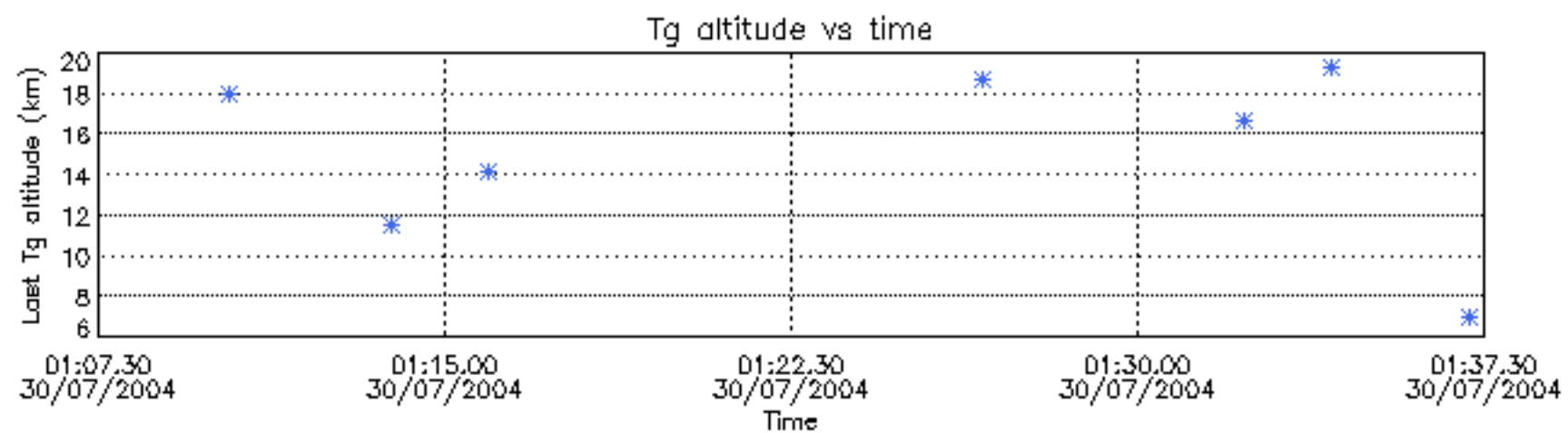
Percentage of star falling outside central band per profile



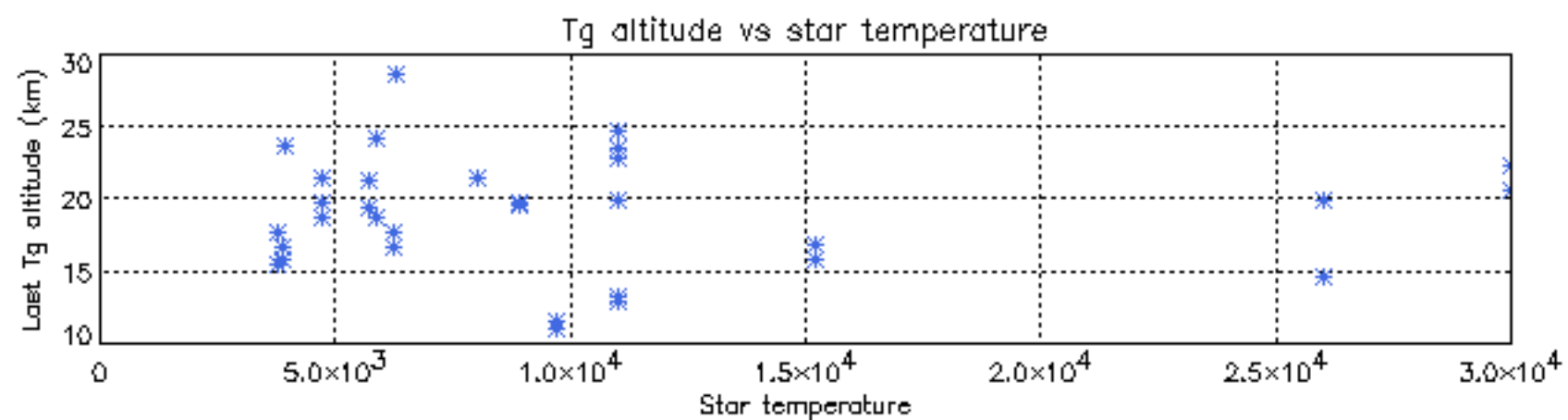
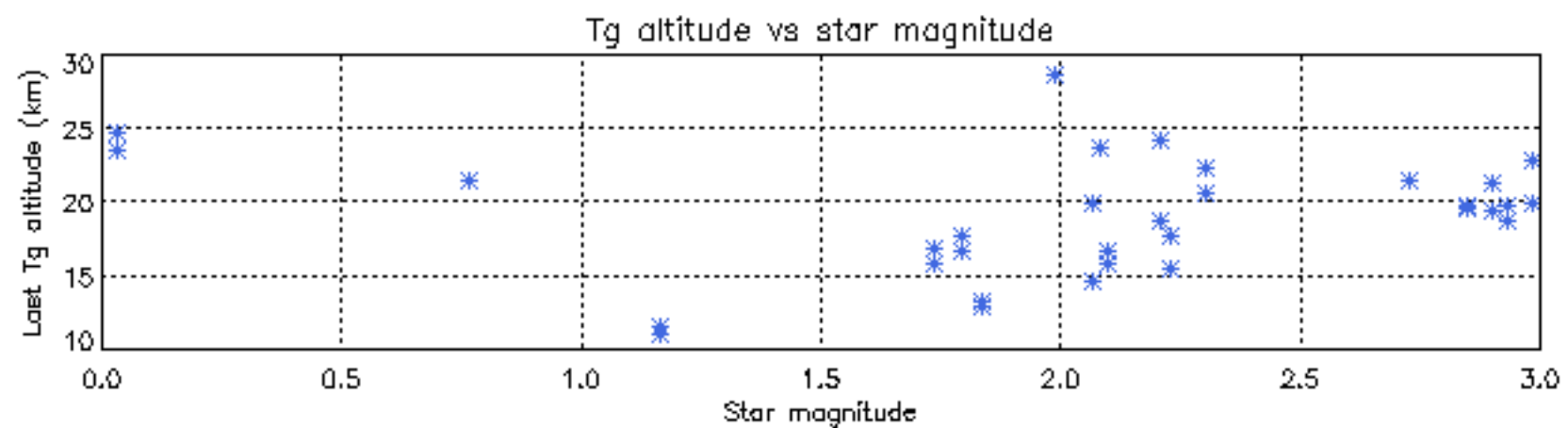
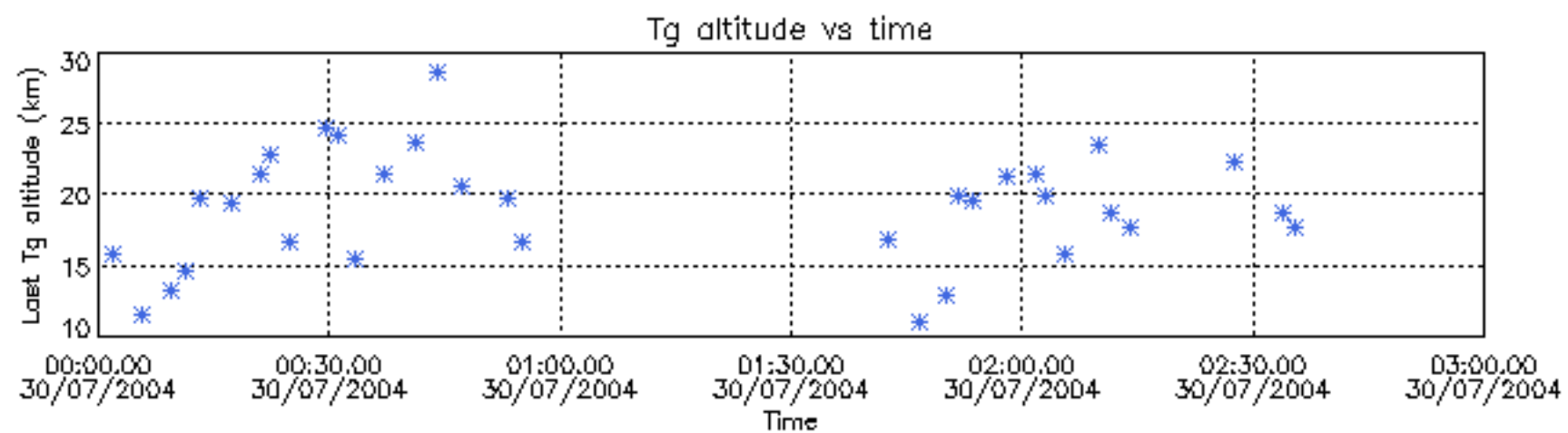
Percentage of saturation errors per profile



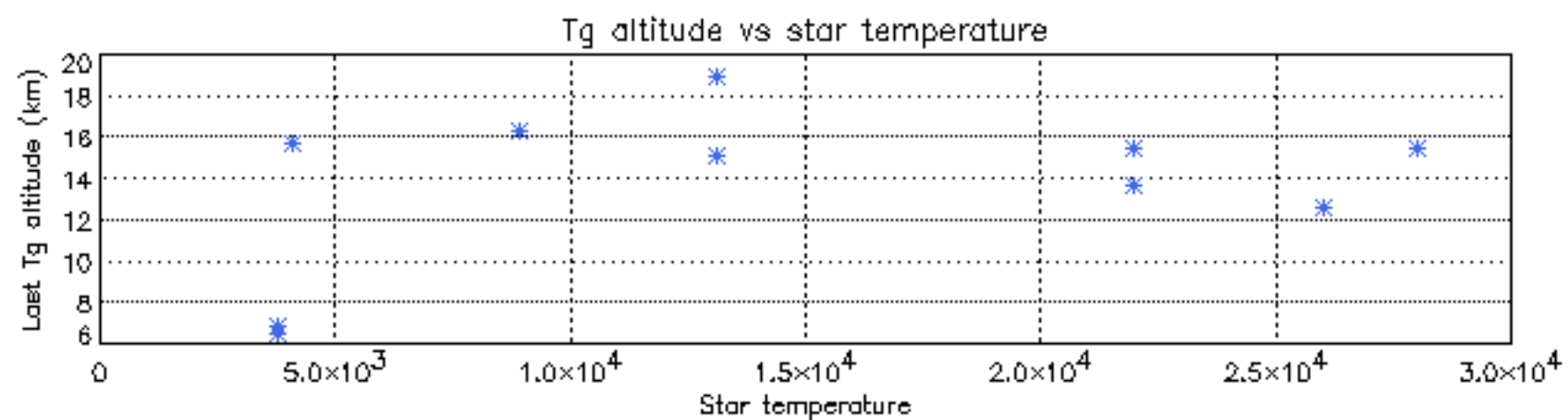
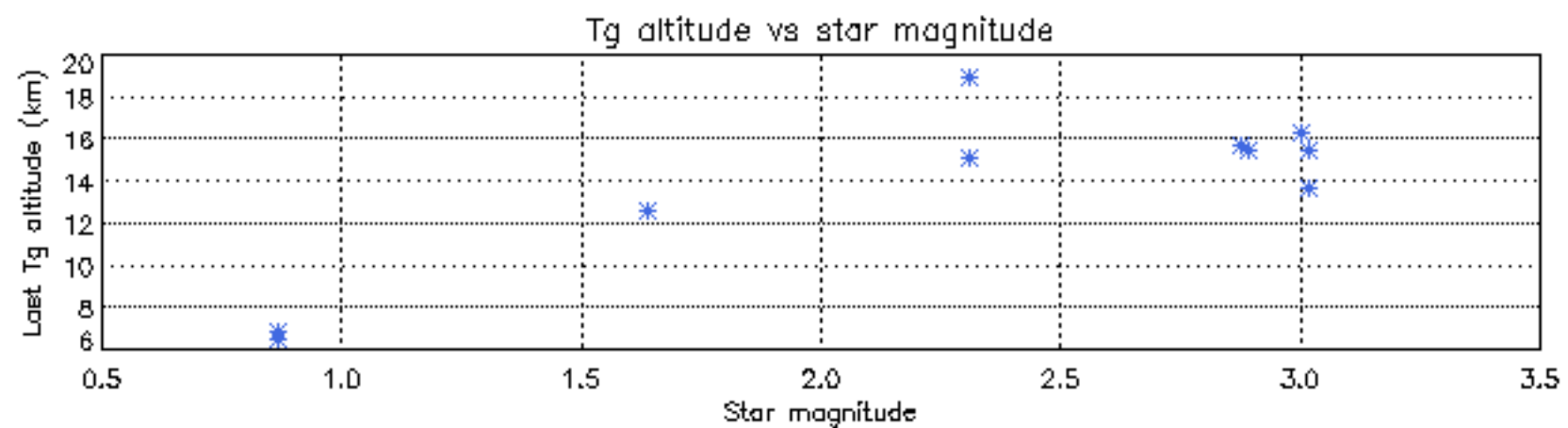
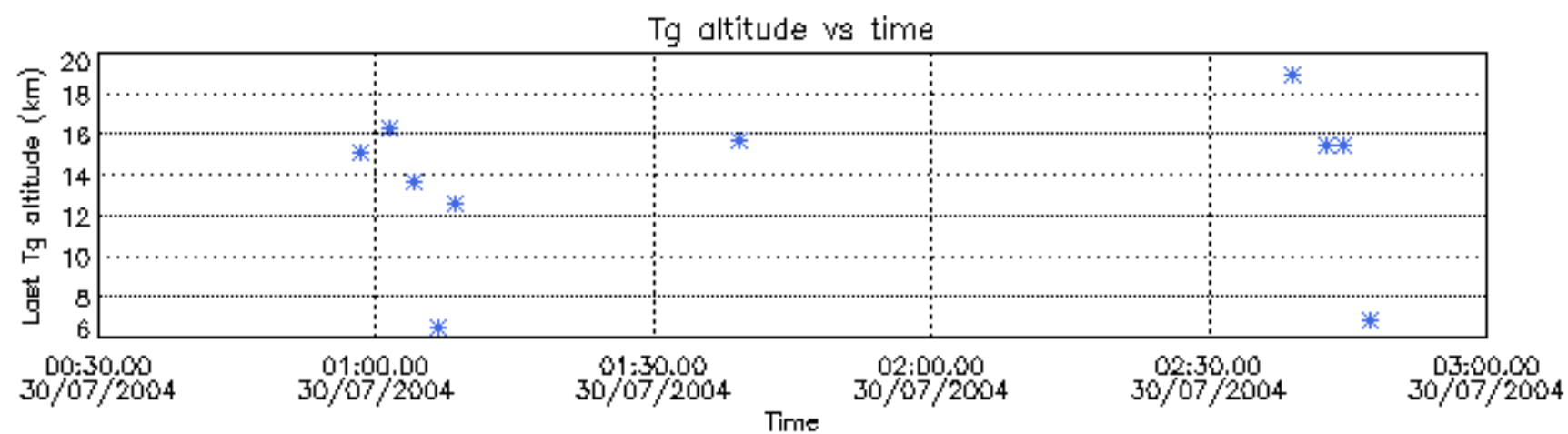
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDE20040701\_012416\_000043092028\_00131\_12209\_0074.N1

|     |         |             |           |         |   |       |      |           |   |       |            |      |    |       |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1;  | -831.6; | 01-JUL-2004 | 01:24:16; | Dark    | ; | 47.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ;  | 95;  | 9; | 12209 |
| 2;  | -494.6; | 01-JUL-2004 | 01:29:53; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00; | 0;occ;     | 119; | 0; | 12209 |
| 3;  | -163.9; | 01-JUL-2004 | 01:35:23; | Dark    | ; | 77.5; | 52;  | 16Bet Cet | ; | 2.04; | 4500;occ;  | 155; | 0; | 12209 |
| 4;  | 36.9;   | 01-JUL-2004 | 01:38:44; | Dark    | ; | 53.0; | 9;   | Alp Eri   | ; | 0.45; | 24000;occ; | 106; | 0; | 12210 |
| 5;  | 314.6;  | 01-JUL-2004 | 01:43:22; | Dark    | ; | 39.5; | 135; | Bet Hyi   | ; | 2.82; | 5800;occ;  | 79;  | 0; | 12210 |
| 6;  | 489.7;  | 01-JUL-2004 | 01:46:17; | Dark    | ; | 58.5; | 63;  | Bet Gru   | ; | 2.15; | 2800;occ;  | 117; | 0; | 12210 |
| 7;  | 585.8;  | 01-JUL-2004 | 01:47:53; | Dark    | ; | 86.5; | 18;  | 24Alp PsA | ; | 1.17; | 9700;occ;  | 173; | 0; | 12210 |
| 8;  | 746.2;  | 01-JUL-2004 | 01:50:33; | Dark    | ; | 44.0; | 45;  | Alp Pav   | ; | 1.94; | 26000;occ; | 88;  | 0; | 12210 |
| 9;  | 975.1;  | 01-JUL-2004 | 01:54:22; | Dark    | ; | 40.0; | 141; | Bet Ara   | ; | 2.84; | 4600;occ;  | 80;  | 0; | 12210 |
| 10; | 1061.4; | 01-JUL-2004 | 01:55:49; | Dark    | ; | 40.0; | 147; | Alp Ara   | ; | 2.88; | 26000;occ; | 80;  | 0; | 12210 |
| 11; | 1169.8; | 01-JUL-2004 | 01:57:37; | Dark    | ; | 45.5; | 40;  | The Sco   | ; | 1.86; | 7100;occ;  | 91;  | 0; | 12210 |
| 12; | 1269.3; | 01-JUL-2004 | 01:59:17; | Dark    | ; | 46.0; | 25;  | 35Lam Sco | ; | 1.62; | 28000;occ; | 92;  | 0; | 12210 |
| 13; | 1354.2; | 01-JUL-2004 | 02:00:41; | Dark    | ; | 55.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ;  | 110; | 0; | 12210 |
| 14; | 1480.2; | 01-JUL-2004 | 02:02:47; | Bright; |   | 45.0; | 155; | 41Pi Sgr  | ; | 2.90; | 6600;occ;  | 90;  | 0; | 12210 |
| 15; | 1641.2; | 01-JUL-2004 | 02:05:28; | Bright; |   | 39.0; | 86;  | 35Eta Oph | ; | 2.43; | 10200;occ; | 78;  | 0; | 12210 |
| 16; | 1744.8; | 01-JUL-2004 | 02:07:12; | Bright; |   | 41.0; | 98;  | 13Zet Oph | ; | 2.57; | 30000;occ; | 82;  | 0; | 12210 |
| 17; | 1877.5; | 01-JUL-2004 | 02:09:25; | Bright; |   | 40.5; | 120; | 1Del Oph  | ; | 2.73; | 3200;occ;  | 81;  | 0; | 12210 |
| 18; | 1979.7; | 01-JUL-2004 | 02:11:07; | Bright; |   | 39.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ;  | 79;  | 0; | 12210 |
| 19; | 2119.5; | 01-JUL-2004 | 02:13:27; | Bright; |   | 39.0; | 59;  | 55Alp Oph | ; | 2.08; | 8900;occ;  | 78;  | 0; | 12210 |
| 20; | 2281.8; | 01-JUL-2004 | 02:16:09; | Bright; |   | 37.0; | 127; | 27Bet Her | ; | 2.78; | 4700;occ;  | 74;  | 0; | 12210 |
| 21; | 2445.7; | 01-JUL-2004 | 02:18:53; | Bright; |   | 37.5; | 133; | 40Zet Her | ; | 2.81; | 6000;occ;  | 75;  | 0; | 12210 |
| 22; | 2647.9; | 01-JUL-2004 | 02:22:15; | Bright; |   | 48.5; | 5;   | 3Alp Lyr  | ; | 0.03; | 11000;occ; | 97;  | 0; | 12210 |
| 23; | 2806.6; | 01-JUL-2004 | 02:24:54; | Bright; |   | 39.0; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ;  | 78;  | 0; | 12210 |
| 24; | 2948.0; | 01-JUL-2004 | 02:27:15; | Bright; |   | 39.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ;  | 78;  | 0; | 12210 |
| 25; | 3190.4; | 01-JUL-2004 | 02:31:18; | Bright; |   | 36.0; | 60;  | 7Bet UMi  | ; | 2.08; | 3950;occ;  | 72;  | 0; | 12210 |
| 26; | 3339.1; | 01-JUL-2004 | 02:33:46; | Bright; |   | 43.0; | 89;  | 5Alp Cep  | ; | 2.45; | 8000;occ;  | 86;  | 0; | 12210 |
| 27; | 3442.7; | 01-JUL-2004 | 02:35:30; | Bright; |   | 36.0; | 49;  | 1Alp UMi  | ; | 1.99; | 6300;occ;  | 72;  | 0; | 12210 |

/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDE20040701\_024108\_000057342028\_00132\_12210\_0075.N1

|     |          |             |           |         |   |       |      |           |   |       |            |      |    |       |
|-----|----------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1;  | -2254.9; | 01-JUL-2004 | 02:41:08; | Bright; |   | 50.5; | 74;  | 11Bet Cas | ; | 2.27; | 6600;occ;  | 101; | 0; | 12210 |
| 2;  | -2161.2; | 01-JUL-2004 | 02:42:42; | Bright; |   | 41.5; | 110; | 37Del Cas | ; | 2.68; | 8900;occ;  | 83;  | 0; | 12210 |
| 3;  | -1976.0; | 01-JUL-2004 | 02:45:47; | Bright; |   | 46.5; | 160; | 23Gam Per | ; | 2.93; | 4700;occ;  | 93;  | 0; | 12210 |
| 4;  | -1871.6; | 01-JUL-2004 | 02:47:31; | Bright; |   | 36.0; | 175; | 39Del Per | ; | 3.01; | 19400;occ; | 72;  | 0; | 12210 |
| 5;  | -1770.5; | 01-JUL-2004 | 02:49:13; | Bright; |   | 52.5; | 73;  | 57Gam1And | ; | 2.26; | 13100;occ; | 105; | 0; | 12210 |
| 6;  | -1616.9; | 01-JUL-2004 | 02:51:46; | Dark    | ; | 68.5; | 53;  | 43Bet And | ; | 2.05; | 3300;occ;  | 137; | 0; | 12210 |
| 7;  | -1355.5; | 01-JUL-2004 | 02:56:08; | Dark    | ; | 66.5; | 50;  | 13Alp Ari | ; | 2.01; | 4250;occ;  | 133; | 0; | 12210 |
| 8;  | -1058.3; | 01-JUL-2004 | 03:01:05; | Dark    | ; | 58.0; | 94;  | 92Alp Cet | ; | 2.53; | 3100;occ;  | 116; | 0; | 12210 |
| 9;  | -835.8;  | 01-JUL-2004 | 03:04:47; | Dark    | ; | 46.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ;  | 93;  | 0; | 12210 |
| 10; | -494.4;  | 01-JUL-2004 | 03:10:29; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00; | 0;occ;     | 119; | 0; | 12210 |
| 11; | -330.3;  | 01-JUL-2004 | 03:13:13; | Dark    | ; | 40.5; | 157; | The1Eri   | ; | 2.91; | 9300;occ;  | 81;  | 0; | 12210 |
| 12; | -162.7;  | 01-JUL-2004 | 03:16:00; | Dark    | ; | 90.5; | 52;  | 16Bet Cet | ; | 2.04; | 4500;occ;  | 181; | 0; | 12210 |
| 13; | 38.0;    | 01-JUL-2004 | 03:19:21; | Dark    | ; | 50.0; | 9;   | Alp Eri   | ; | 0.45; | 24000;occ; | 100; | 0; | 12211 |
| 14; | 314.9;   | 01-JUL-2004 | 03:23:58; | Dark    | ; | 39.5; | 135; | Bet Hyi   | ; | 2.82; | 5800;occ;  | 79;  | 0; | 12211 |
| 15; | 490.7;   | 01-JUL-2004 | 03:26:54; | Dark    | ; | 65.5; | 63;  | Bet Gru   | ; | 2.15; | 2800;occ;  | 131; | 0; | 12211 |
| 16; | 587.9;   | 01-JUL-2004 | 03:28:31; | Dark    | ; | 82.5; | 18;  | 24Alp PsA | ; | 1.17; | 9700;occ;  | 165; | 0; | 12211 |
| 17; | 747.1;   | 01-JUL-2004 | 03:31:10; | Dark    | ; | 44.5; | 45;  | Alp Pav   | ; | 1.94; | 26000;occ; | 89;  | 0; | 12211 |
| 18; | 975.2;   | 01-JUL-2004 | 03:34:58; | Dark    | ; | 41.0; | 141; | Bet Ara   | ; | 2.84; | 4600;occ;  | 82;  | 0; | 12211 |
| 19; | 1062.4;  | 01-JUL-2004 | 03:36:25; | Dark    | ; | 41.0; | 147; | Alp Ara   | ; | 2.88; | 26000;occ; | 82;  | 0; | 12211 |
| 20; | 1170.6;  | 01-JUL-2004 | 03:38:14; | Dark    | ; | 41.5; | 40;  | The Sco   | ; | 1.86; | 7100;occ;  | 83;  | 0; | 12211 |
| 21; | 1267.9;  | 01-JUL-2004 | 03:39:51; | Dark    | ; | 46.5; | 25;  | 35Lam Sco | ; | 1.62; | 28000;occ; | 93;  | 0; | 12211 |
| 22; | 1355.5;  | 01-JUL-2004 | 03:41:19; | Dark    | ; | 46.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ;  | 92;  | 0; | 12211 |
| 23; | 1480.2;  | 01-JUL-2004 | 03:43:23; | Bright; |   | 46.0; | 155; | 41Pi Sgr  | ; | 2.90; | 6600;occ;  | 92;  | 0; | 12211 |
| 24; | 1642.0;  | 01-JUL-2004 | 03:46:05; | Bright; |   | 39.0; | 86;  | 35Eta Oph | ; | 2.43; | 10200;occ; | 78;  | 0; | 12211 |
| 25; | 1746.8;  | 01-JUL-2004 | 03:47:50; | Bright; |   | 39.0; | 98;  | 13Zet Oph | ; | 2.57; | 30000;occ; | 78;  | 0; | 12211 |
| 26; | 1877.8;  | 01-JUL-2004 | 03:50:01; | Bright; |   | 39.5; | 120; | 1Del Oph  | ; | 2.73; | 3200;occ;  | 79;  | 0; | 12211 |
| 27; | 1979.9;  | 01-JUL-2004 | 03:51:43; | Bright; |   | 38.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ;  | 77;  | 0; | 12211 |
| 28; | 2120.0;  | 01-JUL-2004 | 03:54:03; | Bright; |   | 39.0; | 59;  | 55Alp Oph | ; | 2.08; | 8900;occ;  | 78;  | 0; | 12211 |
| 29; | 2282.2;  | 01-JUL-2004 | 03:56:45; | Bright; |   | 37.0; | 127; | 27Bet Her | ; | 2.78; | 4700;occ;  | 74;  | 0; | 12211 |
| 30; | 2446.6;  | 01-JUL-2004 | 03:59:30; | Bright; |   | 39.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ;  | 78;  | 0; | 12211 |
| 31; | 2647.3;  | 01-JUL-2004 | 04:02:50; | Bright; |   | 48.5; | 5;   | 3Alp Lyr  | ; | 0.03; | 11000;occ; | 97;  | 0; | 12211 |
| 32; | 2806.7;  | 01-JUL-2004 | 04:05:30; | Bright; |   | 38.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ;  | 77;  | 0; | 12211 |
| 33; | 2950.6;  | 01-JUL-2004 | 04:07:54; | Bright; |   | 35.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ;  | 70;  | 0; | 12211 |
| 34; | 3190.9;  | 01-JUL-2004 | 04:11:54; | Bright; |   | 33.5; | 60;  | 7Bet UMi  | ; | 2.08; | 3950;occ;  | 67;  | 0; | 12211 |
| 35; | 3338.3;  | 01-JUL-2004 | 04:14:21; | Bright; |   | 43.5; | 89;  | 5Alp Cep  | ; | 2.45; | 8000;occ;  | 87;  | 0; | 12211 |
| 36; | 3443.4;  | 01-JUL-2004 | 04:16:06; | Bright; |   | 37.0; | 49;  | 1Alp UMi  | ; | 1.99; | 6300;occ;  | 74;  | 0; | 12211 |

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|    |          |             |           |         |  |       |      |           |   |       |           |      |    |       |
|----|----------|-------------|-----------|---------|--|-------|------|-----------|---|-------|-----------|------|----|-------|
| 1; | -2256.3; | 01-JUL-2004 | 04:21:43; | Bright; |  | 70.0; | 74;  | 11Bet Cas | ; | 2.27; | 6600;occ; | 140; | 0; | 12211 |
| 2; | -2161.9; | 01-JUL-2004 | 04:23:17; | Bright; |  | 62.0; | 110; | 37Del Cas | ; | 2.68; | 8900;occ; | 124; | 0; | 12211 |

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3;-1975.4; 01-JUL-2004 04:26:24; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;12211
4;-1872.4; 01-JUL-2004 04:28:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12211
5;-1770.6; 01-JUL-2004 04:29:48; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12211
6;-1617.6; 01-JUL-2004 04:32:22; Dark ; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;12211
7;-1355.6; 01-JUL-2004 04:36:43; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;12211
8;-1057.3; 01-JUL-2004 04:41:42; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;12211
9; -834.9; 01-JUL-2004 04:45:24; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;12211
10; -494.3; 01-JUL-2004 04:51:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12211
11; -329.1; 01-JUL-2004 04:53:50; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12211
12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
14; 315.6; 01-JUL-2004 05:04:35; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12212
15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
17; 747.1; 01-JUL-2004 05:11:46; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12212
18; 975.6; 01-JUL-2004 05:15:35; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;12212
19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
20; 1171.4; 01-JUL-2004 05:18:51; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;12212
21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
28; 2120.4; 01-JUL-2004 05:34:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;12212
29; 2283.4; 01-JUL-2004 05:37:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;12212
30; 2446.9; 01-JUL-2004 05:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12212
31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
32; 2806.1; 01-JUL-2004 05:46:05; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12212
33; 2951.0; 01-JUL-2004 05:48:30; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12212
34; 3191.5; 01-JUL-2004 05:52:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;12212
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2;-2162.7; 01-JUL-2004 06:03:52; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;12212
3;-1975.1; 01-JUL-2004 06:07:00; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12212
4;-1871.8; 01-JUL-2004 06:08:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;12212
5;-1771.3; 01-JUL-2004 06:10:24; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;12212
6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
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18;-2168.1; 02-JUL-2004 17:16:22; Bright; 61.0; 110; 37Del Cas ; 2.68; 8900;occ; 122; 0;12233
19;-1979.2; 02-JUL-2004 17:19:31; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12233
20;-1870.3; 02-JUL-2004 17:21:20; Bright; 41.0; 175; 39Del Per ; 3.01; 19400;occ; 82; 0;12233
21;-1775.2; 02-JUL-2004 17:22:55; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12233
22;-1617.4; 02-JUL-2004 17:25:33; Dark ; 84.5; 53; 43Bet And ; 2.05; 3300;occ; 169; 0;12233
23;-1453.2; 02-JUL-2004 17:28:17; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;12233
24;-1347.4; 02-JUL-2004 17:30:03; Dark ; 63.0; 50; 13Alp Ari ; 2.01; 4250;occ; 126; 0;12233
25;-1047.5; 02-JUL-2004 17:35:03; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12233
26;-831.0; 02-JUL-2004 17:38:39; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;12233
27;-507.0; 02-JUL-2004 17:44:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12233
28;-319.7; 02-JUL-2004 17:47:10; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12233
29;-119.0; 02-JUL-2004 17:50:31; Dark ; 83.0; 52; 16Bet Cet ; 2.04; 4500;occ; 166; 0;12233
30; 48.3; 02-JUL-2004 17:53:18; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;12234
31; 320.1; 02-JUL-2004 17:57:50; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12234
32; 513.0; 02-JUL-2004 18:01:03; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;12234
33; 628.0; 02-JUL-2004 18:02:58; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;12234
34; 804.3; 02-JUL-2004 18:05:54; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;12234
35; 978.9; 02-JUL-2004 18:08:49; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;12234

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 3;-4863.2; 02-JUL-2004 18:12:03; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;12234  
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 6;-4552.4; 02-JUL-2004 18:17:14; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;12234  
 7;-4390.6; 02-JUL-2004 18:19:55; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;12234  
 8;-4284.4; 02-JUL-2004 18:21:42; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;12234  
 9;-4152.3; 02-JUL-2004 18:23:54; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;12234  
 10;-4056.2; 02-JUL-2004 18:25:30; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;12234  
 11;-3917.1; 02-JUL-2004 18:27:49; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;12234  
 12;-3750.1; 02-JUL-2004 18:30:36; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;12234  
 13;-3588.1; 02-JUL-2004 18:33:18; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;12234  
 14;-3399.5; 02-JUL-2004 18:36:26; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;12234  
 15;-3233.1; 02-JUL-2004 18:39:13; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;12234  
 16;-3084.2; 02-JUL-2004 18:41:42; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12234  
 17;-2844.5; 02-JUL-2004 18:45:41; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;12234  
 18;-2713.2; 02-JUL-2004 18:47:53; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12234  
 19;-2595.3; 02-JUL-2004 18:49:51; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;12234  
 20;-2267.5; 02-JUL-2004 18:55:19; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;12234  
 21;-2168.5; 02-JUL-2004 18:56:57; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;12234  
 22;-1979.3; 02-JUL-2004 19:00:07; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;12234  
 23;-1870.2; 02-JUL-2004 19:01:56; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12234  
 24;-1773.6; 02-JUL-2004 19:03:32; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12234  
 25;-1617.0; 02-JUL-2004 19:06:09; Dark ; 81.0; 53; 43Bet And ; 2.05; 3300;occ; 162; 0;12234  
 26;-1453.5; 02-JUL-2004 19:08:53; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;12234  
 27;-1346.6; 02-JUL-2004 19:10:39; Dark ; 70.0; 50; 13Alp Ari ; 2.01; 4250;occ; 140; 0;12234  
 28;-1047.0; 02-JUL-2004 19:15:39; Dark ; 55.5; 94; 92Alp Cet ; 2.53; 3100;occ; 111; 0;12234  
 29;-830.7; 02-JUL-2004 19:19:15; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;12234  
 30;-506.1; 02-JUL-2004 19:24:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12234  
 31;-319.7; 02-JUL-2004 19:27:46; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;12234  
 32;-117.1; 02-JUL-2004 19:31:09; Dark ; 85.0; 52; 16Bet Cet ; 2.04; 4500;occ; 170; 0;12234  
 33; 47.0; 02-JUL-2004 19:33:53; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;12235  
 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235  
 35; 514.0; 02-JUL-2004 19:41:40; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12235  
 36; 629.7; 02-JUL-2004 19:43:36; Dark ; 84.0; 18; 24Alp PsA ; 1.17; 9700;occ; 168; 0;12235  
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 2;-2272.0; 03-JUL-2004 06:39:25; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;12241  
 3;-2171.0; 03-JUL-2004 06:41:07; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;12241  
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 5;-1870.0; 03-JUL-2004 06:46:08; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12241  
 6;-1775.9; 03-JUL-2004 06:47:42; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;12241  
 7;-1618.1; 03-JUL-2004 06:50:19; Dark ; 77.5; 53; 43Bet And ; 2.05; 3300;occ; 155; 0;12241  
 8;-1451.3; 03-JUL-2004 06:53:06; Dark ; 44.0; 146; 25Eta Tau ; 2.87; 15200;occ; 88; 0;12241  
 9;-1344.6; 03-JUL-2004 06:54:53; Dark ; 65.0; 50; 13Alp Ari ; 2.01; 4250;occ; 130; 0;12241  
 10;-1043.1; 03-JUL-2004 06:59:54; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;12241  
 11;-825.8; 03-JUL-2004 07:03:32; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12241  
 12;-499.5; 03-JUL-2004 07:08:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12241  
 13;-315.9; 03-JUL-2004 07:12:02; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12241  
 14;-103.9; 03-JUL-2004 07:15:34; Dark ; 96.5; 52; 16Bet Cet ; 2.04; 4500;occ; 193; 0;12241  
 15; 53.7; 03-JUL-2004 07:18:11; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;12242  
 16; 323.2; 03-JUL-2004 07:22:41; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12242  
 17; 520.0; 03-JUL-2004 07:25:57; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12242  
 18; 641.0; 03-JUL-2004 07:27:59; Dark ; 90.5; 18; 24Alp PsA ; 1.17; 9700;occ; 181; 0;12242  
 19; 812.9; 03-JUL-2004 07:30:50; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;12242  
 20; 980.4; 03-JUL-2004 07:33:38; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;12242  
 21; 1069.0; 03-JUL-2004 07:35:06; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12242  
 22; 1177.6; 03-JUL-2004 07:36:55; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;12242  
 23; 1277.4; 03-JUL-2004 07:38:35; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;12242  
 24; 1363.3; 03-JUL-2004 07:40:01; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;12242  
 25; 1486.5; 03-JUL-2004 07:42:04; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;12242  
 26; 1647.4; 03-JUL-2004 07:44:45; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;12242

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 2;-4282.1; 03-JUL-2004 07:46:31; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;12242



|   |          |                       |         |       |       |           |           |       |            |            |      |       |       |
|---|----------|-----------------------|---------|-------|-------|-----------|-----------|-------|------------|------------|------|-------|-------|
| 3;  | -4150.3; | 03-JUL-2004 07:48:43; | Bright; | 38.5; | 120;  | 1Del Oph  | ;         | 2.73; | 3200;occ;  | 77;        | 0;   | 12242 |       |
| 4;  | -4055.3; | 03-JUL-2004 07:50:18; | Bright; | 37.0; | 126;  | 60Bet Oph | ;         | 2.77; | 4250;occ;  | 74;        | 0;   | 12242 |       |
| 5;  | -3916.4; | 03-JUL-2004 07:52:37; | Bright; | 40.0; | 59;   | 55Alp Oph | ;         | 2.08; | 8900;occ;  | 80;        | 0;   | 12242 |       |
| 6;  | -3747.6; | 03-JUL-2004 07:55:26; | Bright; | 39.0; | 127;  | 27Bet Her | ;         | 2.78; | 4700;occ;  | 78;        | 0;   | 12242 |       |
| 7;  | -3585.9; | 03-JUL-2004 07:58:08; | Bright; | 37.0; | 133;  | 40Zet Her | ;         | 2.81; | 6000;occ;  | 74;        | 0;   | 12242 |       |
| 8;  | -3402.2; | 03-JUL-2004 08:01:11; | Bright; | 45.0; | 5;    | 3Alp Lyr  | ;         | 0.03; | 11000;occ; | 90;        | 0;   | 12242 |       |
| 9;  | -3233.2; | 03-JUL-2004 08:04:00; | Bright; | 37.0; | 130;  | 23Bet Dra | ;         | 2.80; | 5800;occ;  | 74;        | 0;   | 12242 |       |
| 10;   | -3082.9; | 03-JUL-2004 08:06:31; | Bright; | 37.5; | 119;  | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 75;        | 0;   | 12242 |       |
| 11;   | -2840.2; | 03-JUL-2004 08:10:33; | Bright; | 38.0; | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 76;        | 0;   | 12242 |       |
| 12;   | -2718.5; | 03-JUL-2004 08:12:35; | Bright; | 46.0; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 92;        | 0;   | 12242 |       |
| 13;   | -2592.2; | 03-JUL-2004 08:14:41; | Bright; | 37.5; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 75;        | 0;   | 12242 |       |
| 14;   | -2272.0; | 03-JUL-2004 08:20:01; | Bright; | 50.5; | 74;   | 11Bet Cas | ;         | 2.27; | 6600;occ;  | 101;       | 0;   | 12242 |       |
| 15;   | -2171.2; | 03-JUL-2004 08:21:42; | Bright; | 51.5; | 110;  | 37Del Cas | ;         | 2.68; | 8900;occ;  | 103;       | 0;   | 12242 |       |
| 16;   | -1976.9; | 03-JUL-2004 08:24:57; | Bright; | 38.5; | 160;  | 23Gam Per | ;         | 2.93; | 4700;occ;  | 77;        | 0;   | 12242 |       |
| 17;   | -1870.0; | 03-JUL-2004 08:26:43; | Bright; | 40.5; | 175;  | 39Del Per | ;         | 3.01; | 19400;occ; | 81;        | 0;   | 12242 |       |
| 18;   | -1774.2; | 03-JUL-2004 08:28:19; | Bright; | 54.5; | 73;   | 57Gam1And | ;         | 2.26; | 13100;occ; | 109;       | 0;   | 12242 |       |
| 19;   | -1617.5; | 03-JUL-2004 08:30:56; | Dark    | ;     | 83.0; | 53;       | 43Bet And | ;     | 2.05;      | 3300;occ;  | 166; | 0;    | 12242 |
| 20;   | -1450.9; | 03-JUL-2004 08:33:43; | Dark    | ;     | 41.5; | 146;      | 25Eta Tau | ;     | 2.87;      | 15200;occ; | 83;  | 0;    | 12242 |
| 21;   | -1344.4; | 03-JUL-2004 08:35:29; | Dark    | ;     | 66.0; | 50;       | 13Alp Ari | ;     | 2.01;      | 4250;occ;  | 132; | 0;    | 12242 |
| 22;   | -1042.6; | 03-JUL-2004 08:40:31; | Dark    | ;     | 54.0; | 94;       | 92Alp Cet | ;     | 2.53;      | 3100;occ;  | 108; | 0;    | 12242 |
| 23;   | -825.2;  | 03-JUL-2004 08:44:08; | Dark    | ;     | 42.5; | 165;      | 34Gam Eri | ;     | 2.95;      | 3200;occ;  | 85;  | 0;    | 12242 |
| 24;   | -498.5;  | 03-JUL-2004 08:49:35; | Dark    | ;     | 59.5; | 0;        |           | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 12242 |
| 25;   | -315.1;  | 03-JUL-2004 08:52:38; | Dark    | ;     | 41.0; | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 82;  | 0;    | 12242 |
| 26;   | -101.9;  | 03-JUL-2004 08:56:12; | Dark    | ;     | 80.5; | 52;       | 16Bet Cet | ;     | 2.04;      | 4500;occ;  | 161; | 0;    | 12242 |
| 27;   | 54.2;    | 03-JUL-2004 08:58:48; | Dark    | ;     | 42.0; | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 84;  | 0;    | 12243 |
| 28;   | 323.2;   | 03-JUL-2004 09:03:17; | Dark    | ;     | 39.0; | 135;      | Bet Hyi   | ;     | 2.82;      | 5800;occ;  | 78;  | 0;    | 12243 |
| 29;   | 521.8;   | 03-JUL-2004 09:06:35; | Dark    | ;     | 56.5; | 63;       | Bet Gru   | ;     | 2.15;      | 2800;occ;  | 113; | 0;    | 12243 |
| 30;   | 642.7;   | 03-JUL-2004 09:08:36; | Dark    | ;     | 81.5; | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 163; | 0;    | 12243 |
| 31;   | 814.2;   | 03-JUL-2004 09:11:28; | Dark    | ;     | 60.0; | 172;      | Gam Gru   | ;     | 3.00;      | 13100;occ; | 120; | 0;    | 12243 |
| 32;   | 980.6;   | 03-JUL-2004 09:14:14; | Dark    | ;     | 42.5; | 141;      | Bet Ara   | ;     | 2.84;      | 4600;occ;  | 85;  | 0;    | 12243 |
| 33;   | 1069.0;  | 03-JUL-2004 09:15:42; | Dark    | ;     | 41.5; | 147;      | Alp Ara   | ;     | 2.88;      | 26000;occ; | 83;  | 0;    | 12243 |
| 34;   | 1177.6;  | 03-JUL-2004 09:17:31; | Dark    | ;     | 44.0; | 40;       | The Sco   | ;     | 1.86;      | 7100;occ;  | 88;  | 0;    | 12243 |
| 35;   | 1277.5;  | 03-JUL-2004 09:19:11; | Dark    | ;     | 42.5; | 25;       | 35Lam Sco | ;     | 1.62;      | 28000;occ; | 85;  | 0;    | 12243 |
| 36;   | 1363.4;  | 03-JUL-2004 09:20:37; | Dark    | ;     | 51.5; | 116;      | 19Del Sgr | ;     | 2.70;      | 4100;occ;  | 103; | 0;    | 12243 |
| 37;   | 1486.7;  | 03-JUL-2004 09:22:40; | Bright; | 44.0; | 155;  | 41Pi Sgr  | ;         | 2.90; | 6600;occ;  | 88;        | 0;   | 12243 |       |
| 38;   | 1647.5;  | 03-JUL-2004 09:25:21; | Bright; | 37.5; | 86;   | 35Eta Oph | ;         | 2.43; | 10200;occ; | 75;        | 0;   | 12243 |       |
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| 2;  | -4150.0; | 03-JUL-2004 09:29:19; | Bright; | 38.0; | 120;  | 1Del Oph  | ;         | 2.73; | 3200;occ;  | 76;        | 0;   | 12243 |       |
| 3;  | -4055.2; | 03-JUL-2004 09:30:54; | Bright; | 37.0; | 126;  | 60Bet Oph | ;         | 2.77; | 4250;occ;  | 74;        | 0;   | 12243 |       |
| 4;  | -3916.5; | 03-JUL-2004 09:33:13; | Bright; | 37.0; | 59;   | 55Alp Oph | ;         | 2.08; | 8900;occ;  | 74;        | 0;   | 12243 |       |
| 5;  | -3747.6; | 03-JUL-2004 09:36:02; | Bright; | 37.0; | 127;  | 27Bet Her | ;         | 2.78; | 4700;occ;  | 74;        | 0;   | 12243 |       |
| 6;  | -3585.9; | 03-JUL-2004 09:38:43; | Bright; | 37.5; | 133;  | 40Zet Her | ;         | 2.81; | 6000;occ;  | 75;        | 0;   | 12243 |       |
| 7;  | -3402.8; | 03-JUL-2004 09:41:47; | Bright; | 47.5; | 5;    | 3Alp Lyr  | ;         | 0.03; | 11000;occ; | 95;        | 0;   | 12243 |       |
| 8;  | -3233.6; | 03-JUL-2004 09:44:36; | Bright; | 38.0; | 130;  | 23Bet Dra | ;         | 2.80; | 5800;occ;  | 76;        | 0;   | 12243 |       |
| 9;  | -3083.0; | 03-JUL-2004 09:47:06; | Bright; | 38.0; | 119;  | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 76;        | 0;   | 12243 |       |
| 10;   | -2840.3; | 03-JUL-2004 09:51:09; | Bright; | 37.5; | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 75;        | 0;   | 12243 |       |
| 11;   | -2719.5; | 03-JUL-2004 09:53:10; | Bright; | 47.5; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 95;        | 0;   | 12243 |       |
| 12;   | -2592.2; | 03-JUL-2004 09:55:17; | Bright; | 38.5; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 77;        | 0;   | 12243 |       |
| 13;   | -2272.5; | 03-JUL-2004 10:00:37; | Bright; | 50.0; | 74;   | 11Bet Cas | ;         | 2.27; | 6600;occ;  | 100;       | 0;   | 12243 |       |
| 14;   | -2171.5; | 03-JUL-2004 10:02:18; | Bright; | 44.0; | 110;  | 37Del Cas | ;         | 2.68; | 8900;occ;  | 88;        | 0;   | 12243 |       |
| 15;   | -1977.0; | 03-JUL-2004 10:05:32; | Bright; | 39.0; | 160;  | 23Gam Per | ;         | 2.93; | 4700;occ;  | 78;        | 0;   | 12243 |       |
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| 17;   | -1774.3; | 03-JUL-2004 10:08:55; | Bright; | 56.5; | 73;   | 57Gam1And | ;         | 2.26; | 13100;occ; | 113;       | 0;   | 12243 |       |
| 18;   | -1617.4; | 03-JUL-2004 10:11:32; | Dark    | ;     | 78.0; | 53;       | 43Bet And | ;     | 2.05;      | 3300;occ;  | 156; | 0;    | 12243 |
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| 7;  | -3059.5; | 16-JUL-2004 | 14:40:43; | Bright; | 38.0; | 119;   | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 76;        | 0;   | 12432 |       |
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| 26;   | 784.7;   | 16-JUL-2004 | 15:44:47; | Dark    | ;     | 49.5;  | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 99;  | 0;    | 12433 |
| 27;   | 926.4;   | 16-JUL-2004 | 15:47:08; | Dark    | ;     | 83.5;  | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 167; | 0;    | 12433 |
| 28;   | 1207.8;  | 16-JUL-2004 | 15:51:50; | Dark    | ;     | 44.5;  | 40;       | The Sco   | ;     | 1.86;      | 7100;occ;  | 89;  | 0;    | 12433 |
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| 19;   | 4407.7;  | 16-JUL-2004 | 21:46:58; | Dark    | ;     | 114.5; | 53;       | 43Bet And | ;     | 2.05;      | 3300;occ;  | 229; | 0;    | 12436 |
| 20;   | 4626.0;  | 16-JUL-2004 | 21:50:36; | Dark    | ;     | 49.5;  | 146;      | 25Eta Tau | ;     | 2.87;      | 15200;occ; | 99;  | 0;    | 12436 |
| 21;   | 4720.9;  | 16-JUL-2004 | 21:52:11; | Dark    | ;     | 48.5;  | 13;       | 87Alp Tau | ;     | 0.87;      | 3800;occ;  | 97;  | 0;    | 12436 |
| 22;   | 5100.1;  | 16-JUL-2004 | 21:58:30; | Dark    | ;     | 39.5;  | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 79;  | 0;    | 12436 |
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| 2;  | -499.7;  | 16-JUL-2004 | 22:05:46; | Dark    | ;     | 59.5;  | 0;        |           | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 12436 |
| 3;  | -202.6;  | 16-JUL-2004 | 22:10:43; | Dark    | ;     | 44.0;  | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 88;  | 0;    | 12436 |
| 4;  | 165.2;   | 16-JUL-2004 | 22:16:51; | Dark    | ;     | 45.5;  | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 91;  | 0;    | 12437 |
| 5;  | 369.9;   | 16-JUL-2004 | 22:20:16; | Dark    | ;     | 39.0;  | 135;      | Bet Hyi   | ;     | 2.82;      | 5800;occ;  | 78;  | 0;    | 12437 |
| 6;  | 693.5;   | 16-JUL-2004 | 22:25:39; | Dark    | ;     | 65.0;  | 63;       | Bet Gru   | ;     | 2.15;      | 2800;occ;  | 130; | 0;    | 12437 |
| 7;  | 787.6;   | 16-JUL-2004 | 22:27:13; | Dark    | ;     | 56.0;  | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 112; | 0;    | 12437 |
| 8;  | 931.0;   | 16-JUL-2004 | 22:29:37; | Dark    | ;     | 85.5;  | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 171; | 0;    | 12437 |
| 9;  | 1208.6;  | 16-JUL-2004 | 22:34:14; | Dark    | ;     | 45.0;  | 40;       | The Sco   | ;     | 1.86;      | 7100;occ;  | 90;  | 0;    | 12437 |
| 10;   | 1323.5;  | 16-JUL-2004 | 22:36:09; | Dark    | ;     | 42.0;  | 38;       | 20Eps Sgr | ;     | 1.84;      | 11000;occ; | 84;  | 0;    | 12437 |
| 11;   | 1436.7;  | 16-JUL-2004 | 22:38:03; | Bright; | 41.5; | 57;    | 34Sig Sgr | ;         | 2.07; | 26000;occ; | 83;        | 0;   | 12437 |       |
| 12;   | 1550.2;  | 16-JUL-2004 | 22:39:56; | Bright; | 76.0; | 142;   | 49Del Cap | ;         | 2.85; | 8900;occ;  | 152;       | 0;   | 12437 |       |
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| 15;   | 2490.2;  | 16-JUL-2004 | 22:55:36; | Bright; | 40.0; | 133;   | 40Zet Her | ;         | 2.81; | 6000;occ;  | 80;        | 0;   | 12437 |       |
| 16;   | 2576.6;  | 16-JUL-2004 | 22:57:02; | Bright; | 40.5; | 5;     | 3Alp Lyr  | ;         | 0.03; | 11000;occ; | 81;        | 0;   | 12437 |       |
| 17;   | 2780.4;  | 16-JUL-2004 | 23:00:26; | Bright; | 40.5; | 69;    | 33Gam Dra | ;         | 2.23; | 3800;occ;  | 81;        | 0;   | 12437 |       |
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| 21;   | 3639.9;  | 16-JUL-2004 | 23:14:46; | Bright; | 53.0; | 74;    | 11Bet Cas | ;         | 2.27; | 6600;occ;  | 106;       | 0;   | 12437 |       |



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9; 835.8; 22-JUL-2004 00:51:45; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;12510
10; 1012.3; 22-JUL-2004 00:54:41; Dark ; 83.5; 18; 24Alp PsA ; 1.17; 9700;occ; 167; 0;12510
11; 1261.9; 22-JUL-2004 00:58:51; Dark ; 42.0; 178; Iot1Sco ; 3.02; 6550;occ; 84; 0;12510
12; 1336.0; 22-JUL-2004 01:00:05; Dark ; 40.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 81; 0;12510
13; 1450.2; 22-JUL-2004 01:01:59; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12510
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16; 2141.7; 22-JUL-2004 01:13:31; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;12510
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18; 2734.1; 22-JUL-2004 01:23:23; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;12510
19; 2845.3; 22-JUL-2004 01:25:14; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;12510
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21; 3155.7; 22-JUL-2004 01:30:25; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;12510
22; 3440.5; 22-JUL-2004 01:35:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;12510
23; 3586.7; 22-JUL-2004 01:37:36; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;12510
24; 3684.9; 22-JUL-2004 01:39:14; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;12510
25; 4020.0; 22-JUL-2004 01:44:49; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;12510
26; 4107.2; 22-JUL-2004 01:46:16; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;12510
27; 4214.4; 22-JUL-2004 01:48:03; Bright; 70.5; 73; 57Gam1And ; 2.26; 13100;occ; 141; 0;12510
28; 4393.0; 22-JUL-2004 01:51:02; Dark ; 141.0; 53; 43Bet And ; 2.05; 3300;occ; 282; 0;12510
29; 4647.0; 22-JUL-2004 01:55:16; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;12510
30; 4741.0; 22-JUL-2004 01:56:50; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12510
31; 4867.0; 22-JUL-2004 01:58:56; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;12510
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2; -778.1; 22-JUL-2004 02:05:27; Dark ; 46.0; 101; 11Alp Lep ; 2.58; 7000;occ; 92; 0;12510
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5; 389.0; 22-JUL-2004 02:24:54; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12511
6; 651.7; 22-JUL-2004 02:29:16; Dark ; 51.5; 148; Alp Tuc ; 2.88; 4100;occ; 103; 0;12511
7; 751.4; 22-JUL-2004 02:30:56; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;12511
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10; 1262.4; 22-JUL-2004 02:39:27; Dark ; 40.5; 178; Iot1Sco ; 3.02; 6550;occ; 81; 0;12511
11; 1336.2; 22-JUL-2004 02:40:41; Dark ; 41.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 82; 0;12511
12; 1448.7; 22-JUL-2004 02:42:33; Bright; 41.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 83; 0;12511
13; 1556.4; 22-JUL-2004 02:44:21; Bright; 67.5; 142; 49Del Cap ; 2.85; 8900;occ; 135; 0;12511
14; 2008.6; 22-JUL-2004 02:51:53; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;12511
15; 2141.7; 22-JUL-2004 02:54:06; Bright; 40.5; 168; 17Zet Aql ; 2.99; 11000;occ; 81; 0;12511
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19; 2992.1; 22-JUL-2004 03:08:17; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;12511
20; 3155.2; 22-JUL-2004 03:11:00; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;12511
21; 3439.9; 22-JUL-2004 03:15:45; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12511
22; 3586.1; 22-JUL-2004 03:18:11; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;12511
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| 2;  | -2352.0; | 22-JUL-2004 | 03:19:49; | Bright; | 67.5; | 76;    | 27Gam Cas | ;         | 2.30; | 30000;occ; | 135;       | 0;   | 12511 |       |
| 3;  | -2016.2; | 22-JUL-2004 | 03:25:24; | Bright; | 46.0; | 160;   | 23Gam Per | ;         | 2.93; | 4700;occ;  | 92;        | 0;   | 12511 |       |
| 4;  | -1929.2; | 22-JUL-2004 | 03:26:52; | Bright; | 60.0; | 35;    | 33Alp Per | ;         | 1.79; | 6250;occ;  | 120;       | 0;   | 12511 |       |
| 5;  | -1821.9; | 22-JUL-2004 | 03:28:39; | Bright; | 70.5; | 73;    | 57Gam1And | ;         | 2.26; | 13100;occ; | 141;       | 0;   | 12511 |       |
| 6;  | -1642.9; | 22-JUL-2004 | 03:31:38; | Dark    | ;     | 156.0; | 53;       | 43Bet And | ;     | 2.05;      | 3300;occ;  | 312; | 0;    | 12511 |
| 7;  | -1389.1; | 22-JUL-2004 | 03:35:52; | Dark    | ;     | 48.0;  | 146;      | 25Eta Tau | ;     | 2.87;      | 15200;occ; | 96;  | 0;    | 12511 |
| 8;  | -1296.9; | 22-JUL-2004 | 03:37:24; | Dark    | ;     | 57.0;  | 13;       | 87Alp Tau | ;     | 0.87;      | 3800;occ;  | 114; | 0;    | 12511 |
| 9;  | -1168.7; | 22-JUL-2004 | 03:39:32; | Dark    | ;     | 40.5;  | 27;       | 24Gam Ori | ;     | 1.64;      | 26000;occ; | 81;  | 0;    | 12511 |
| 10;   | -1051.8; | 22-JUL-2004 | 03:41:29; | Dark    | ;     | 38.0;  | 30;       | 46Eps Ori | ;     | 1.69;      | 30000;occ; | 76;  | 0;    | 12511 |
| 11;   | -918.2;  | 22-JUL-2004 | 03:43:42; | Dark    | ;     | 52.0;  | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 104; | 0;    | 12511 |
| 12;   | -777.9;  | 22-JUL-2004 | 03:46:03; | Dark    | ;     | 44.5;  | 101;      | 11Alp Lep | ;     | 2.58;      | 7000;occ;  | 89;  | 0;    | 12511 |
| 13;   | -513.4;  | 22-JUL-2004 | 03:50:27; | Dark    | ;     | 41.5;  | 108;      | Alp Col   | ;     | 2.65;      | 15200;occ; | 83;  | 0;    | 12511 |
| 14;   | -385.5;  | 22-JUL-2004 | 03:52:35; | Dark    | ;     | 59.5;  | 0;        |           | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 12511 |
| 15;   | -145.8;  | 22-JUL-2004 | 03:56:35; | Dark    | ;     | 45.5;  | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 91;  | 0;    | 12511 |
| 16;   | 213.1;   | 22-JUL-2004 | 04:02:34; | Dark    | ;     | 45.0;  | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 90;  | 0;    | 12512 |
| 17;   | 386.6;   | 22-JUL-2004 | 04:05:27; | Dark    | ;     | 42.0;  | 135;      | Bet Hyi   | ;     | 2.82;      | 5800;occ;  | 84;  | 0;    | 12512 |
| 18;   | 651.6;   | 22-JUL-2004 | 04:09:52; | Dark    | ;     | 44.0;  | 148;      | Alp Tuc   | ;     | 2.88;      | 4100;occ;  | 88;  | 0;    | 12512 |
| 19;   | 752.3;   | 22-JUL-2004 | 04:11:33; | Dark    | ;     | 53.5;  | 63;       | Bet Gru   | ;     | 2.15;      | 2800;occ;  | 107; | 0;    | 12512 |
| 20;   | 838.3;   | 22-JUL-2004 | 04:12:59; | Dark    | ;     | 54.0;  | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 108; | 0;    | 12512 |
| 21;   | 1013.9;  | 22-JUL-2004 | 04:15:55; | Dark    | ;     | 78.5;  | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 157; | 0;    | 12512 |
| 22;   | 1262.3;  | 22-JUL-2004 | 04:20:03; | Dark    | ;     | 40.0;  | 178;      | Iot1Sco   | ;     | 3.02;      | 6550;occ;  | 80;  | 0;    | 12512 |
| 23;   | 1336.5;  | 22-JUL-2004 | 04:21:17; | Dark    | ;     | 43.0;  | 38;       | 20Eps Sgr | ;     | 1.84;      | 11000;occ; | 86;  | 0;    | 12512 |
| 24;   | 1450.8;  | 22-JUL-2004 | 04:23:11; | Bright; | 40.0; | 57;    | 34Sig Sgr | ;         | 2.07; | 26000;occ; | 80;        | 0;   | 12512 |       |
| 25;   | 1555.7;  | 22-JUL-2004 | 04:24:56; | Bright; | 68.5; | 142;   | 49Del Cap | ;         | 2.85; | 8900;occ;  | 137;       | 0;   | 12512 |       |
| 26;   | 2009.5;  | 22-JUL-2004 | 04:32:30; | Bright; | 38.5; | 126;   | 60Bet Oph | ;         | 2.77; | 4250;occ;  | 77;        | 0;   | 12512 |       |
| 27;   | 2144.6;  | 22-JUL-2004 | 04:34:45; | Bright; | 38.5; | 168;   | 17Zet Aql | ;         | 2.99; | 11000;occ; | 77;        | 0;   | 12512 |       |
| 28;   | 2568.1;  | 22-JUL-2004 | 04:41:49; | Bright; | 41.0; | 5;     | 3Alp Lyr  | ;         | 0.03; | 11000;occ; | 82;        | 0;   | 12512 |       |
| 29;   | 2733.3;  | 22-JUL-2004 | 04:44:34; | Bright; | 40.0; | 144;   | 18Del Cyg | ;         | 2.86; | 11000;occ; | 80;        | 0;   | 12512 |       |
| 30;   | 2843.4;  | 22-JUL-2004 | 04:46:24; | Bright; | 47.5; | 19;    | 50Alp Cyg | ;         | 1.25; | 10500;occ; | 95;        | 0;   | 12512 |       |
| 31;   | 2995.2;  | 22-JUL-2004 | 04:48:56; | Bright; | 38.5; | 119;   | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 77;        | 0;   | 12512 |       |
| 32;   | 3154.4;  | 22-JUL-2004 | 04:51:35; | Bright; | 44.0; | 89;    | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 88;        | 0;   | 12512 |       |
| 33;   | 3440.9;  | 22-JUL-2004 | 04:56:22; | Bright; | 36.0; | 49;    | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 72;        | 0;   | 12512 |       |
| 34;   | 3584.4;  | 22-JUL-2004 | 04:58:45; | Bright; | 53.5; | 74;    | 11Bet Cas | ;         | 2.27; | 6600;occ;  | 107;       | 0;   | 12512 |       |
| 35;   | 3683.9;  | 22-JUL-2004 | 05:00:25; | Bright; | 3.5;  | 76;    | 27Gam Cas | ;         | 2.30; | 30000;occ; | 7;         | 0;   | 12512 |       |
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| 2;  | -2017.0; | 22-JUL-2004 | 05:06:00; | Bright; | 45.0; | 160;   | 23Gam Per | ;         | 2.93; | 4700;occ;  | 90;        | 0;   | 12512 |       |
| 3;  | -1930.4; | 22-JUL-2004 | 05:07:26; | Bright; | 47.0; | 35;    | 33Alp Per | ;         | 1.79; | 6250;occ;  | 94;        | 0;   | 12512 |       |
| 4;  | -1822.8; | 22-JUL-2004 | 05:09:14; | Bright; | 72.0; | 73;    | 57Gam1And | ;         | 2.26; | 13100;occ; | 144;       | 0;   | 12512 |       |
| 5;  | -1643.4; | 22-JUL-2004 | 05:12:13; | Dark    | ;     | 138.0; | 53;       | 43Bet And | ;     | 2.05;      | 3300;occ;  | 276; | 0;    | 12512 |
| 6;  | -1388.5; | 22-JUL-2004 | 05:16:28; | Dark    | ;     | 50.0;  | 146;      | 25Eta Tau | ;     | 2.87;      | 15200;occ; | 100; | 0;    | 12512 |
| 7;  | -1294.9; | 22-JUL-2004 | 05:18:02; | Dark    | ;     | 53.0;  | 13;       | 87Alp Tau | ;     | 0.87;      | 3800;occ;  | 106; | 0;    | 12512 |
| 8;  | -1167.4; | 22-JUL-2004 | 05:20:09; | Dark    | ;     | 39.0;  | 27;       | 24Gam Ori | ;     | 1.64;      | 26000;occ; | 78;  | 0;    | 12512 |
| 9;  | -1051.9; | 22-JUL-2004 | 05:22:05; | Dark    | ;     | 39.0;  | 30;       | 46Eps Ori | ;     | 1.69;      | 30000;occ; | 78;  | 0;    | 12512 |
| 10;   | -915.1;  | 22-JUL-2004 | 05:24:22; | Dark    | ;     | 52.0;  | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 104; | 0;    | 12512 |
| 11;   | -775.2;  | 22-JUL-2004 | 05:26:42; | Dark    | ;     | 43.0;  | 101;      | 11Alp Lep | ;     | 2.58;      | 7000;occ;  | 86;  | 0;    | 12512 |
| 12;   | -513.1;  | 22-JUL-2004 | 05:31:04; | Dark    | ;     | 40.5;  | 108;      | Alp Col   | ;     | 2.65;      | 15200;occ; | 81;  | 0;    | 12512 |
| 13;   | -385.0;  | 22-JUL-2004 | 05:33:12; | Dark    | ;     | 59.5;  | 0;        |           | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 12512 |
| 14;   | -145.8;  | 22-JUL-2004 | 05:37:11; | Dark    | ;     | 46.0;  | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 92;  | 0;    | 12512 |
| 15;   | 214.0;   | 22-JUL-2004 | 05:43:11; | Dark    | ;     | 44.0;  | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 88;  | 0;    | 12513 |
| 16;   | 388.7;   | 22-JUL-2004 | 05:46:05; | Dark    | ;     | 39.5;  | 135;      | Bet Hyi   | ;     | 2.82;      | 5800;occ;  | 79;  | 0;    | 12513 |
| 17;   | 653.1;   | 22-JUL-2004 | 05:50:30; | Dark    | ;     | 46.0;  | 148;      | Alp Tuc   | ;     | 2.88;      | 4100;occ;  | 92;  | 0;    | 12513 |
| 18;   | 753.4;   | 22-JUL-2004 | 05:52:10; | Dark    | ;     | 53.0;  | 63;       | Bet Gru   | ;     | 2.15;      | 2800;occ;  | 106; | 0;    | 12513 |
| 19;   | 839.1;   | 22-JUL-2004 | 05:53:36; | Dark    | ;     | 47.5;  | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 95;  | 0;    | 12513 |
| 20;   | 1012.6;  | 22-JUL-2004 | 05:56:29; | Dark    | ;     | 84.5;  | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 169; | 0;    | 12513 |
| 21;   | 1262.5;  | 22-JUL-2004 | 06:00:39; | Dark    | ;     | 40.5;  | 178;      | Iot1Sco   | ;     | 3.02;      | 6550;occ;  | 81;  | 0;    | 12513 |
| 22;   | 1337.9;  | 22-JUL-2004 | 06:01:55; | Dark    | ;     | 43.5;  | 38;       | 20Eps Sgr | ;     | 1.84;      | 11000;occ; | 87;  | 0;    | 12513 |
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| 24;   | 1556.0;  | 22-JUL-2004 | 06:05:33; | Bright; | 65.0; | 142;   | 49Del Cap | ;         | 2.85; | 8900;occ;  | 130;       | 0;   | 12513 |       |
| 25;   | 2010.3;  | 22-JUL-2004 | 06:13:07; | Bright; | 38.0; | 126;   | 60Bet Oph | ;         | 2.77; | 4250;occ;  | 76;        | 0;   | 12513 |       |
| 26;   | 2144.9;  | 22-JUL-2004 | 06:15:22; | Bright; | 40.0; | 168;   | 17Zet Aql | ;         | 2.99; | 11000;occ; | 80;        | 0;   | 12513 |       |
| 27;   | 2568.2;  | 22-JUL-2004 | 06:22:25; | Bright; | 42.0; | 5;     | 3Alp Lyr  | ;         | 0.03; | 11000;occ; | 84;        | 0;   | 12513 |       |
| 28;   | 2733.4;  | 22-JUL-2004 | 06:25:10; | Bright; | 40.0; | 144;   | 18Del Cyg | ;         | 2.86; | 11000;occ; | 80;        | 0;   | 12513 |       |
| 29;   | 2843.1;  | 22-JUL-2004 | 06:27:00; | Bright; | 47.5; | 19;    | 50Alp Cyg | ;         | 1.25; | 10500;occ; | 95;        | 0;   | 12513 |       |
| 30;   | 2995.7;  | 22-JUL-2004 | 06:29:32; | Bright; | 38.5; | 119;   | 14Eta Dra | ;         | 2.73; | 4700;occ;  | 77;        | 0;   | 12513 |       |
| 31;   | 3154.2;  | 22-JUL-2004 | 06:32:11; | Bright; | 43.5; | 89;    | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 87;        | 0;   | 12513 |       |
| 32;   | 3441.1;  | 22-JUL-2004 | 06:36:58; | Bright; | 38.0; | 49;    | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 76;        | 0;   | 12513 |       |
| 33;   | 3584.2;  | 22-JUL-2004 | 06:39:21; | Bright; | 52.0; | 74;    | 11Bet Cas | ;         | 2.27; | 6600;occ;  | 104;       | 0;   | 12513 |       |

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 8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513  
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