

# GOMOS Daily Report 10-OCT-2007

## Level 0 and Level 1 products

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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 | 15OCT2007 10:34:51              |
| Data source version       | GOMOS/5.00                      |
| Start time of products    | 10-10-2007 (10OCT2007 00:00:00) |
| Stop time of products     | 11-10-2007 (11OCT2007 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 1b prods      | 22                              |
| Nb of prods with errors   | 1                               |

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

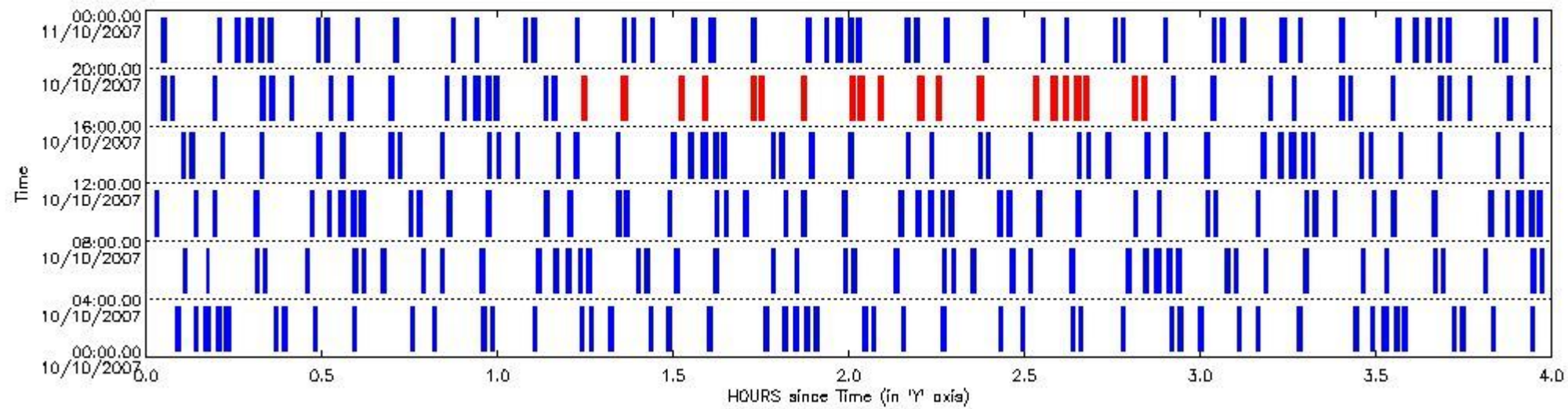
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



### 2.3 Summary of missing occultations (red segments in previous plot)

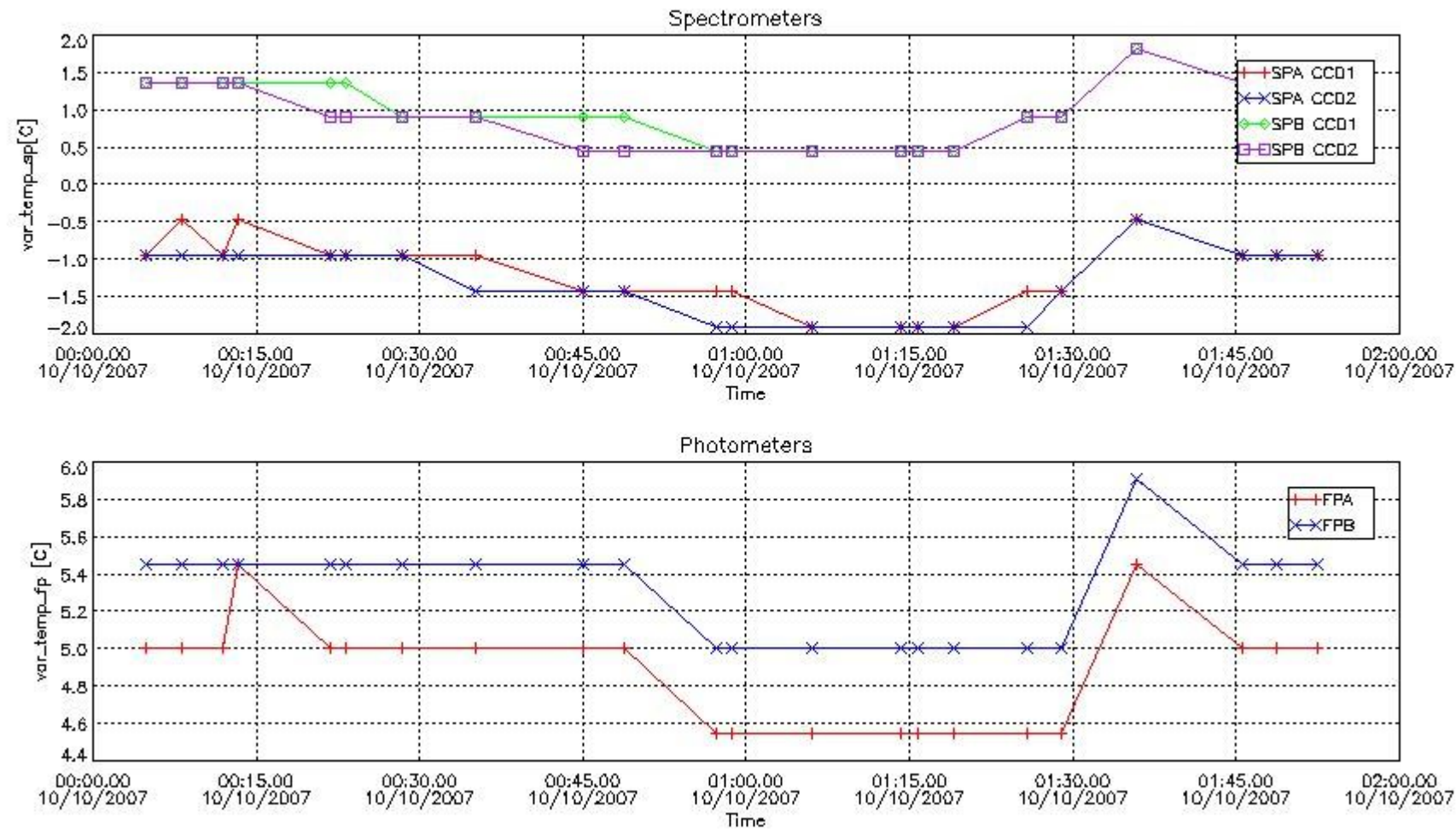
| UTC start time       | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 10-OCT-2007 17:14:24 | AlpPhe    | 84      | 29339 |
| 10-OCT-2007 17:21:05 | 16BetCet  | 52      | 29339 |
| 10-OCT-2007 17:30:57 | 88GamPeg  | 140     | 29339 |
| 10-OCT-2007 17:34:58 | 21AlpAnd  | 58      | 29339 |
| 10-OCT-2007 17:43:13 | 18AlpCas  | 68      | 29339 |
| 10-OCT-2007 17:44:36 | 27GamCas  | 76      | 29339 |
| 10-OCT-2007 17:51:56 | 1AlpUMi   | 49      | 29339 |
| 10-OCT-2007 18:00:06 | 50AlpUMa  | 36      | 29339 |
| 10-OCT-2007 18:01:38 | 48BetUMa  | 82      | 29339 |
| 10-OCT-2007 18:04:57 | 52PsiUMa  | 174     | 29339 |
| 10-OCT-2007 18:11:44 | 17EpsLeo  | 166     | 29339 |
| 10-OCT-2007 18:14:54 | 32AlpLeo  | 22      | 29339 |
| 10-OCT-2007 18:21:53 | 30AlpHya  | 48      | 29339 |
| 10-OCT-2007 18:31:31 | LamVel    | 65      | 29339 |
| 10-OCT-2007 18:34:29 | Gam2Vel   | 34      | 29339 |

|                      |         |     |       |
|----------------------|---------|-----|-------|
| 10-OCT-2007 18:36:29 | DSA1055 | 0   | 29340 |
| 10-OCT-2007 18:38:36 | TauPup  | 161 | 29340 |
| 10-OCT-2007 18:39:59 | AlpCar  | 2   | 29340 |
| 10-OCT-2007 18:48:25 | AlpHyi  | 143 | 29340 |
| 10-OCT-2007 18:49:52 | AlpEri  | 9   | 29340 |

#### 2.4 Summary of processed GOM\_TRA\_1P products

| Nr | Filename   | UTC Start time       | Limb       | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_TRA_1PNPDE20071010_000453_000000472062_00216_29328_8654.N1 | 10-OCT-2007 00:04:53 | Dark       | 47.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 94      | 29328 | No          |
| 2  | GOM_TRA_1PNPDE20071010_000806_000000422062_00216_29328_8441.N1 | 10-OCT-2007 00:08:06 | Dark       | 41.500   | 46      | Del Vel   | 1.9540   | 10600.    | 83      | 29328 | No          |
| 3  | GOM_TRA_1PNPDE20071010_001155_000000452062_00217_29329_8656.N1 | 10-OCT-2007 00:11:55 | Dark       | 45.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 90      | 29329 | No          |
| 4  | GOM_TRA_1PNPDE20071010_001318_000000612062_00217_29329_8657.N1 | 10-OCT-2007 00:13:18 | Dark       | 61.000   | 2       | Alp Car   | -0.73600 | 7000.0    | 122     | 29329 | No          |
| 5  | GOM_TRA_1PNPDE20071010_002149_000000372062_00217_29329_8658.N1 | 10-OCT-2007 00:21:49 | Dark       | 37.000   | 143     | Alp Hyi   | 2.8570   | 7200.0    | 74      | 29329 | No          |
| 6  | GOM_TRA_1PNPDE20071010_002316_000000412062_00217_29329_8445.N1 | 10-OCT-2007 00:23:16 | Dark       | 40.500   | 9       | Alp Eri   | 0.45300  | 24000.    | 81      | 29329 | No          |
| 7  | GOM_TRA_1PNPDE20071010_002825_000000442062_00217_29329_8660.N1 | 10-OCT-2007 00:28:25 | Straylight | 43.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 87      | 29329 | No          |
| 8  | GOM_TRA_1PNPDE20071010_003507_000000462062_00217_29329_8661.N1 | 10-OCT-2007 00:35:07 | Straylight | 45.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 91      | 29329 | No          |
| 9  | GOM_TRA_1PNPDE20071010_004501_000000372062_00217_29329_8662.N1 | 10-OCT-2007 00:45:01 | Bright     | 37.000   | 140     | 88Gam Peg | 2.8340   | 26000.    | 74      | 29329 | No          |
| 10 | GOM_TRA_1PNPDE20071010_004847_000000362062_00217_29329_8663.N1 | 10-OCT-2007 00:48:47 | Bright     | 35.500   | 93      | 53Bet Peg | 2.5200   | 3100.0    | 71      | 29329 | No          |
| 11 | GOM_TRA_1PNPDE20071010_005719_000000382062_00217_29329_8664.N1 | 10-OCT-2007 00:57:19 | Bright     | 38.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 76      | 29329 | No          |
| 12 | GOM_TRA_1PNPDE20071010_005843_000000392062_00217_29329_8451.N1 | 10-OCT-2007 00:58:43 | Bright     | 38.500   | 76      | 27Gam Cas | 2.3000   | 30000.    | 77      | 29329 | No          |
| 13 | GOM_TRA_1PNPDE20071010_010600_000000332062_00217_29329_8666.N1 | 10-OCT-2007 01:06:00 | Bright     | 33.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 66      | 29329 | No          |
| 14 | GOM_TRA_1PNPDE20071010_011409_000000372062_00217_29329_8667.N1 | 10-OCT-2007 01:14:09 | Bright     | 37.000   | 36      | 50Alp UMa | 1.8000   | 6300.0    | 74      | 29329 | No          |
| 15 | GOM_TRA_1PNPDE20071010_011541_000000352062_00217_29329_8668.N1 | 10-OCT-2007 01:15:41 | Bright     | 34.500   | 82      | 48Bet UMa | 2.3650   | 10600.    | 69      | 29329 | No          |
| 16 | GOM_TRA_1PNPDE20071010_011859_000000422062_00217_29329_8455.N1 | 10-OCT-2007 01:18:59 | Bright     | 42.000   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 84      | 29329 | No          |
| 17 | GOM_TRA_1PNPDE20071010_012546_000000382062_00217_29329_8670.N1 | 10-OCT-2007 01:25:46 | Bright     | 38.000   | 166     | 17Eps Leo | 2.9800   | 6000.0    | 76      | 29329 | No          |
| 18 | GOM_TRA_1PNPDE20071010_012855_000000382062_00217_29329_8671.N1 | 10-OCT-2007 01:28:55 | Bright     | 37.500   | 22      | 32Alp Leo | 1.3600   | 15200.    | 75      | 29329 | No          |
| 19 | GOM_TRA_1PNPDE20071010_013552_000000502062_00217_29329_8712.N1 | 10-OCT-2007 01:35:52 | Twilight   | 49.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 99      | 29329 | Yes         |
| 20 | GOM_TRA_1PNPDE20071010_014529_000000452062_00217_29329_8664.N1 | 10-OCT-2007 01:45:29 | Dark       | 45.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 90      | 29329 | No          |
| 21 | GOM_TRA_1PNPDE20071010_014842_000000402062_00217_29329_8714.N1 | 10-OCT-2007 01:48:42 | Dark       | 39.500   | 46      | Del Vel   | 1.9540   | 10600.    | 79      | 29329 | No          |
| 22 | GOM_TRA_1PNPDE20071010_015232_000000422062_00218_29330_8715.N1 | 10-OCT-2007 01:52:32 | Dark       | 42.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 84      | 29330 | No          |

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



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

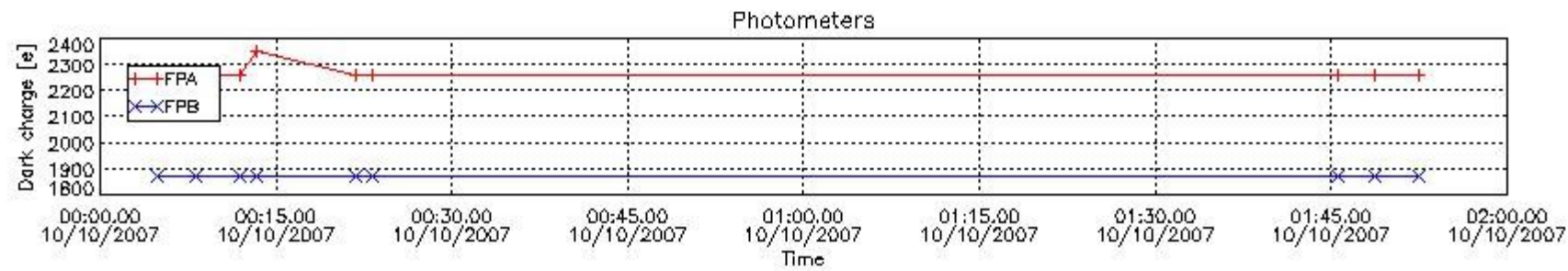
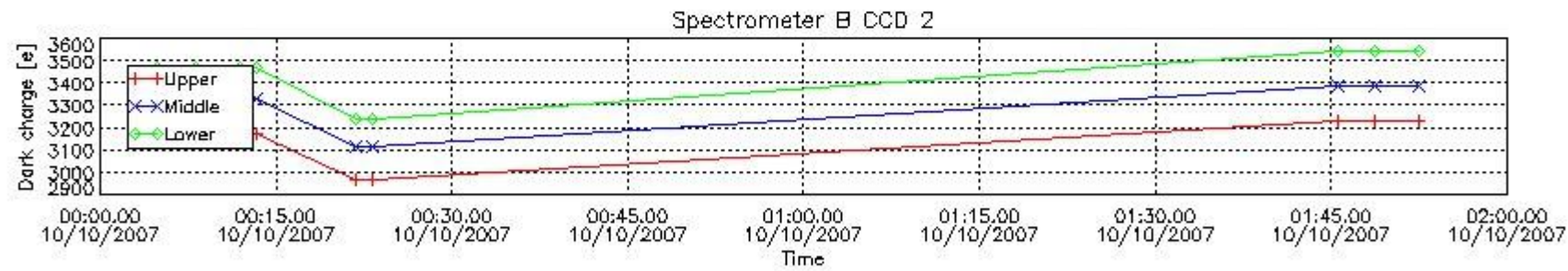
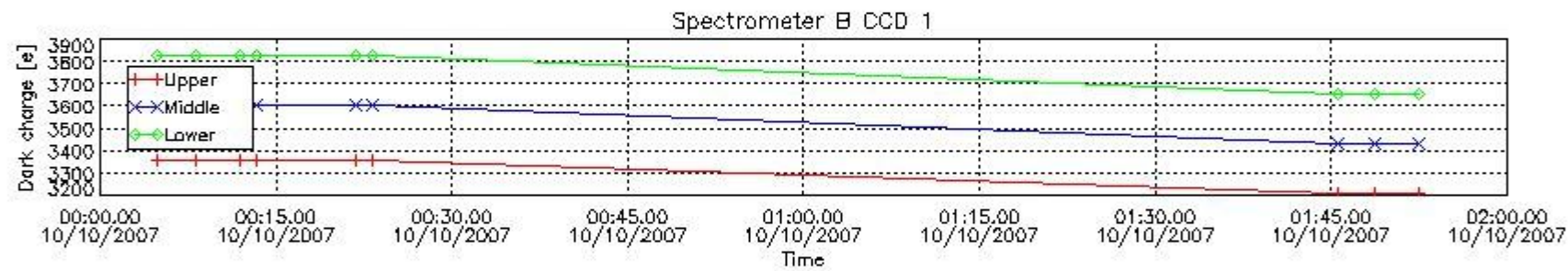
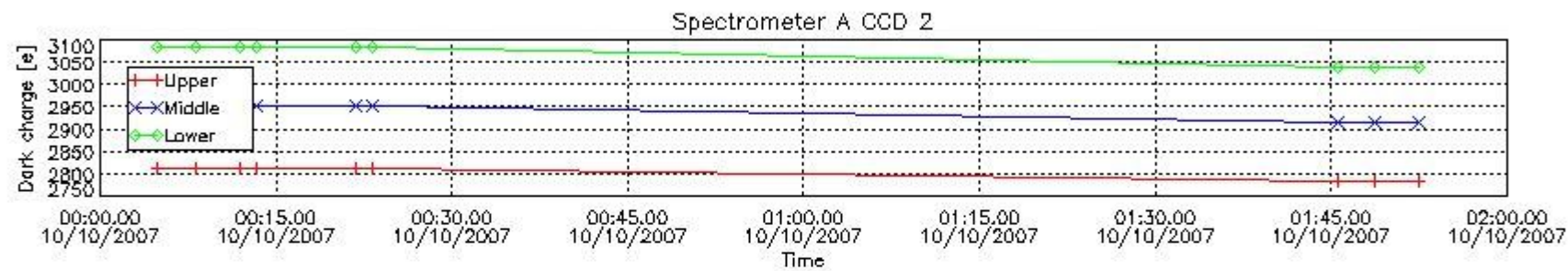
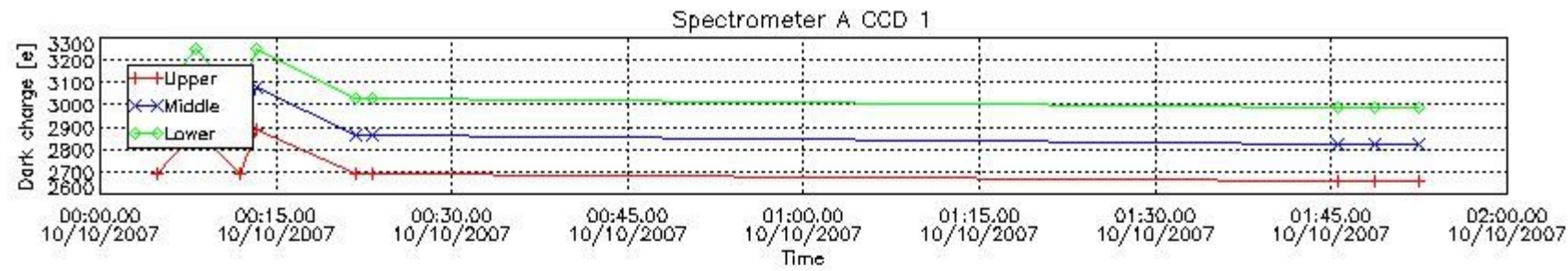
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





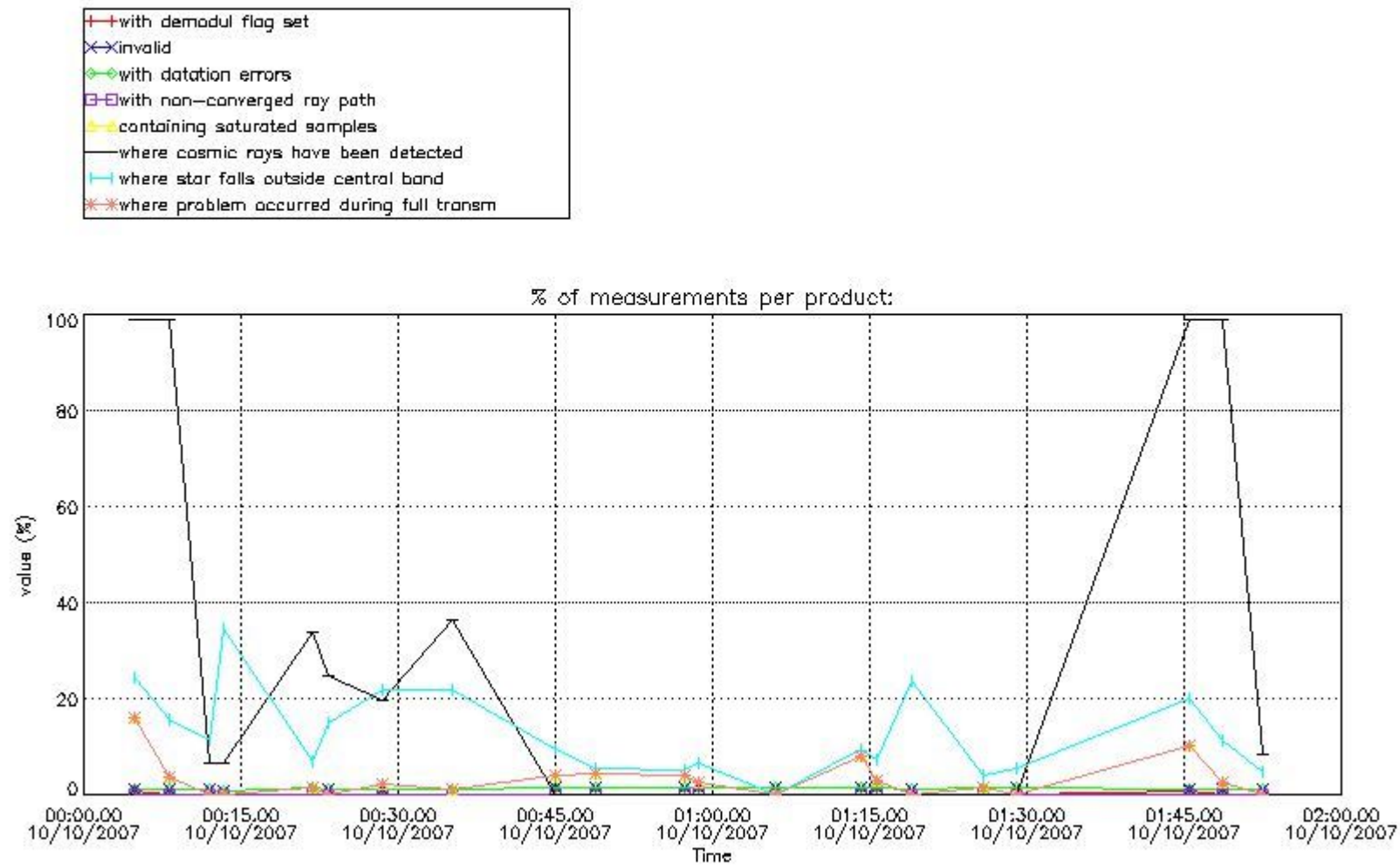
## 5. Demodulation flag and quality information monitoring

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:

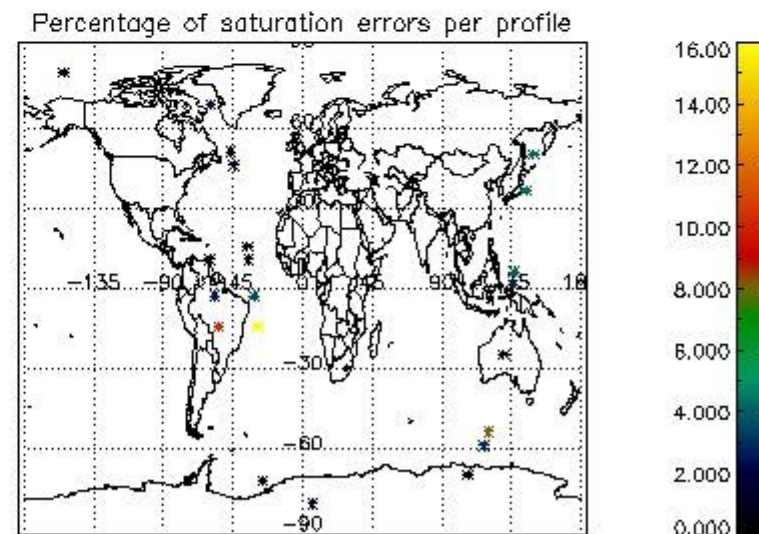
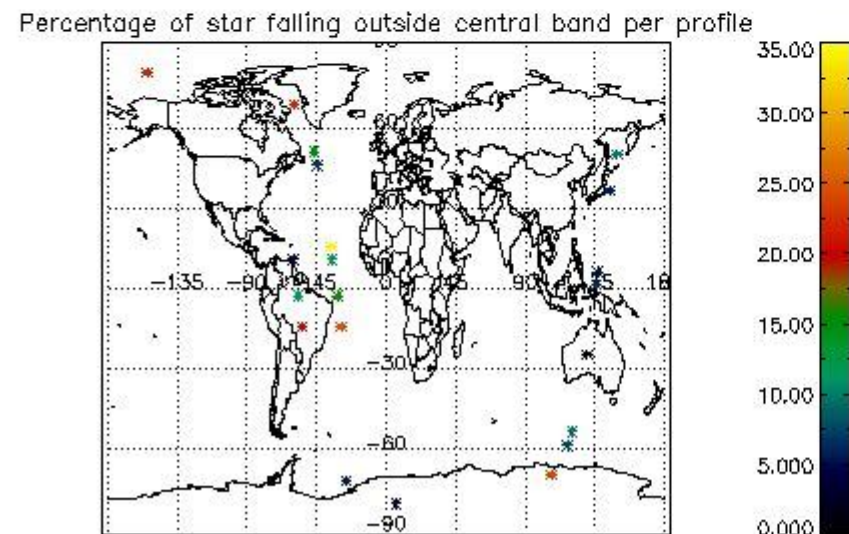
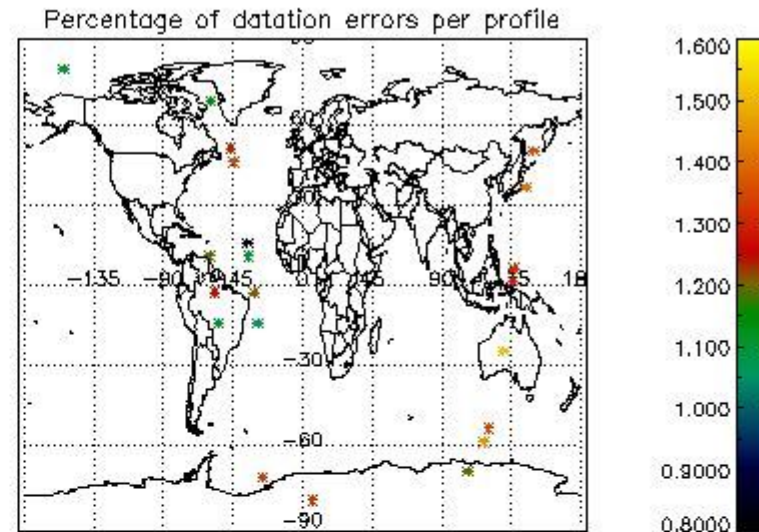
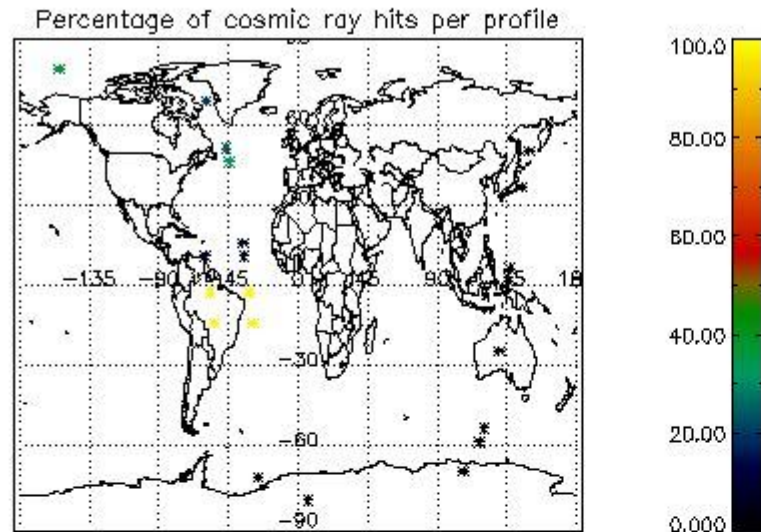
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 33.3333 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

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



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





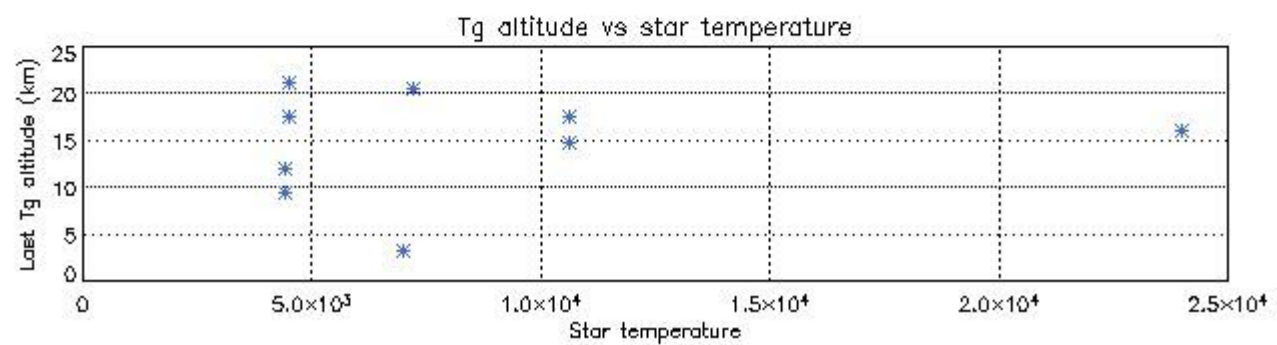
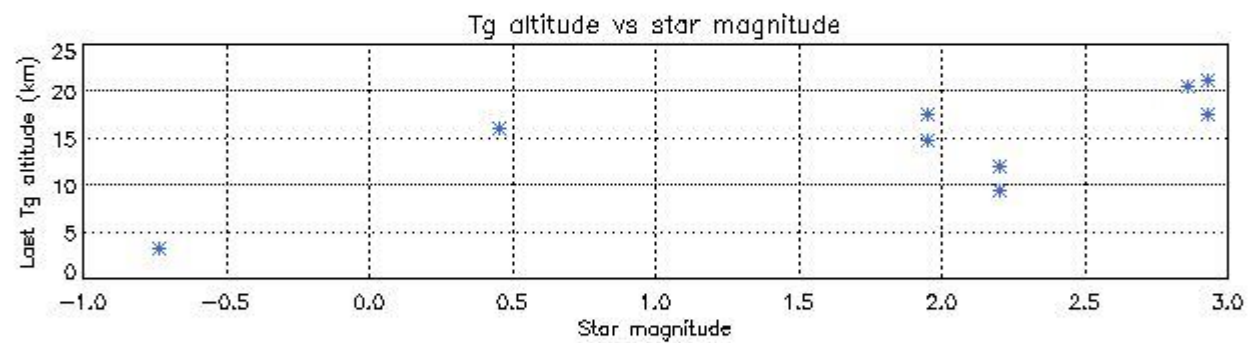
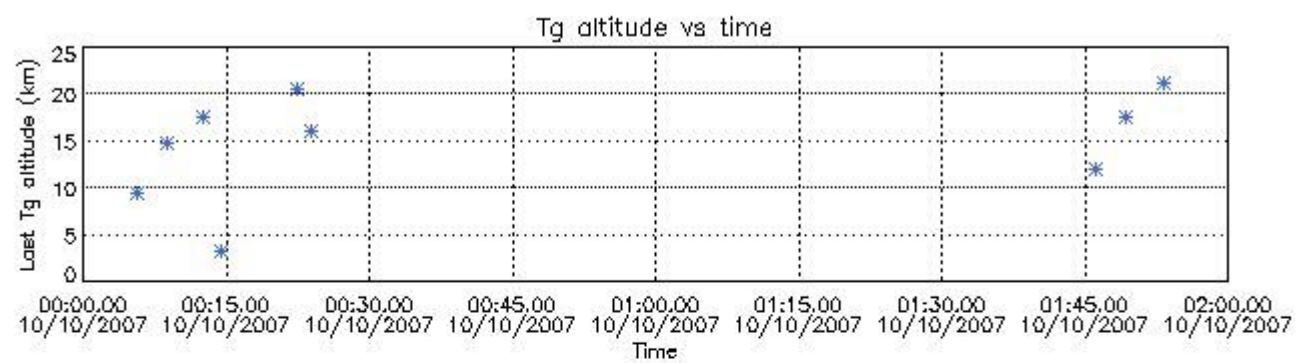
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 14.703 | 20.655 | NaN      |
| St. deviation:  | 5.7156 | 3.8944 | NaN      |
| Maximum:        | 21.210 | 27.022 | NaN      |
| Minimum:        | 3.2164 | 11.587 | NaN      |
| Number of data: | 9.0000 | 10.000 | NaN      |

### 6.2 Plot for DARK limb products

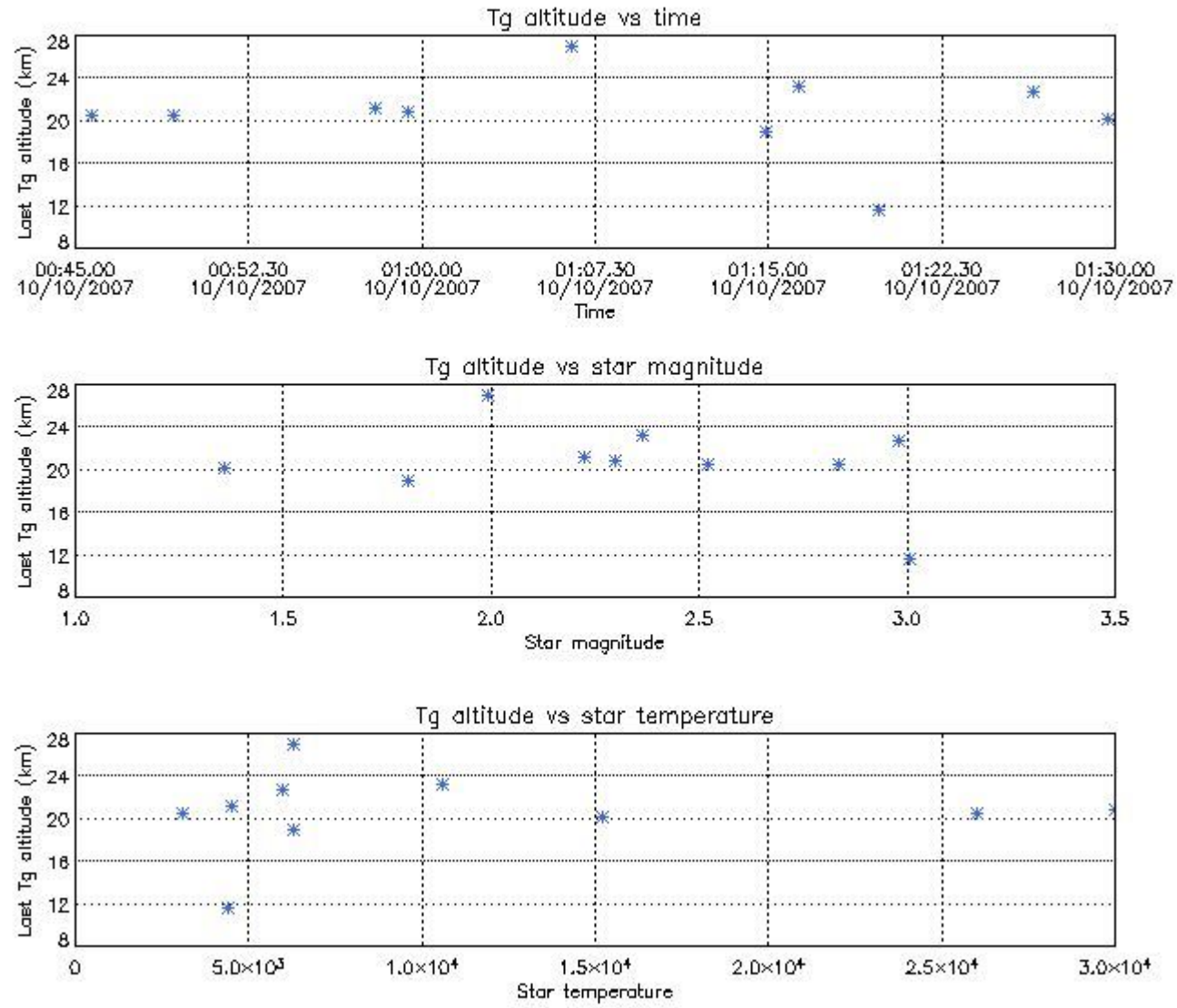
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

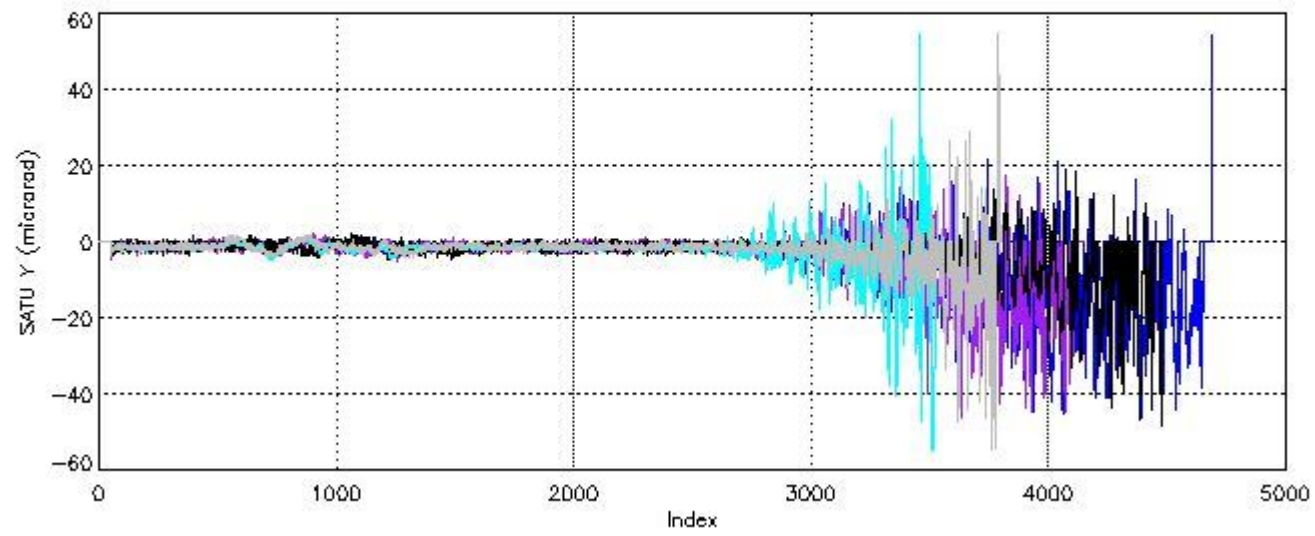
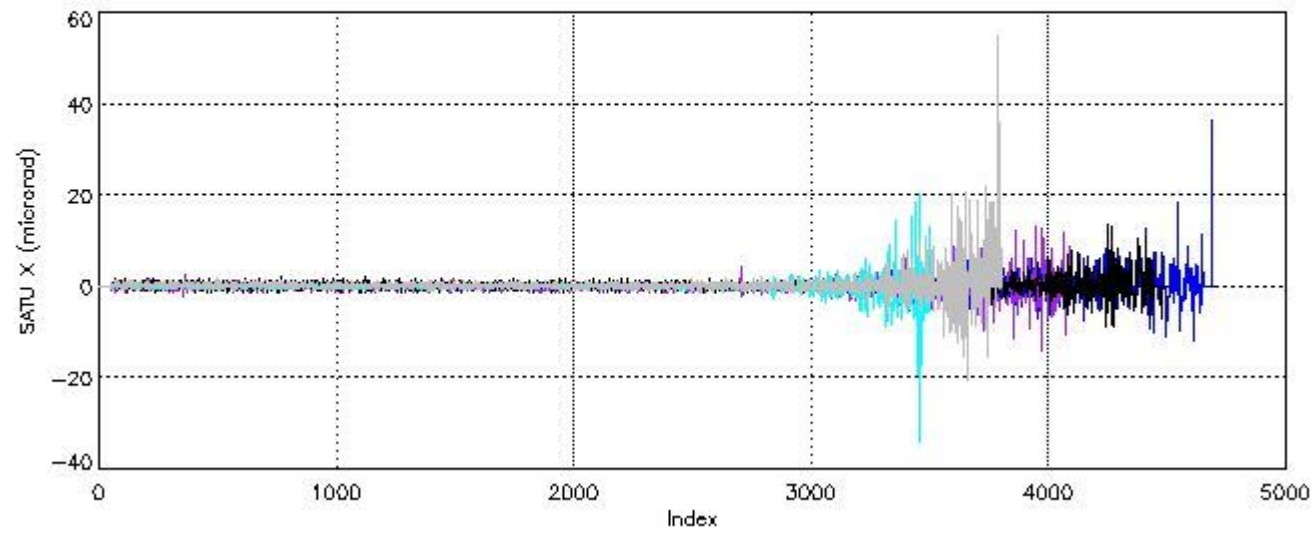


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 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 (in microradians) 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.

### 7.2.1 SATU NEA Statistics (table)

| Statistics     | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean:          | 0.10746    | -1.1658    | 0.050690   | -1.3753    |
| St. deviation: | 0.44267    | 0.94915    | 0.70305    | 1.3610     |
| Maximum:       | 3.2000     | 3.0000     | 8.1000     | 5.0000     |
| Minimum:       | -4.9000    | -5.8000    | -5.1000    | -8.1000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 8550.0 | 8550.0 | 8450.0 | 8450.0 |
|-----------------|--------|--------|--------|--------|

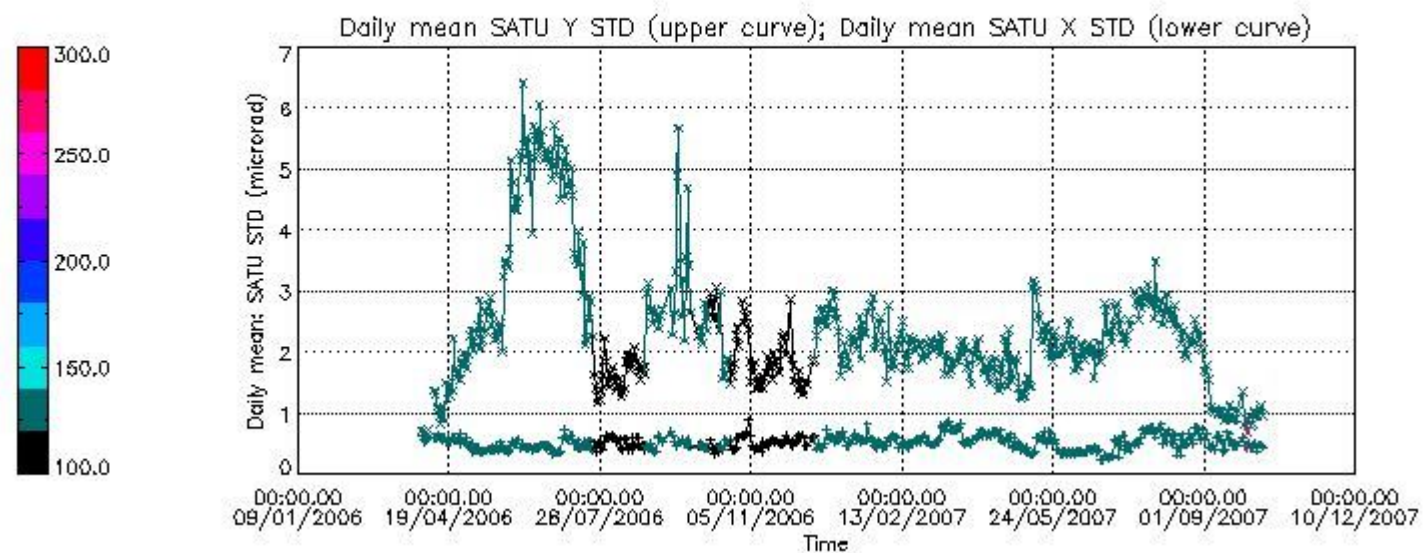
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

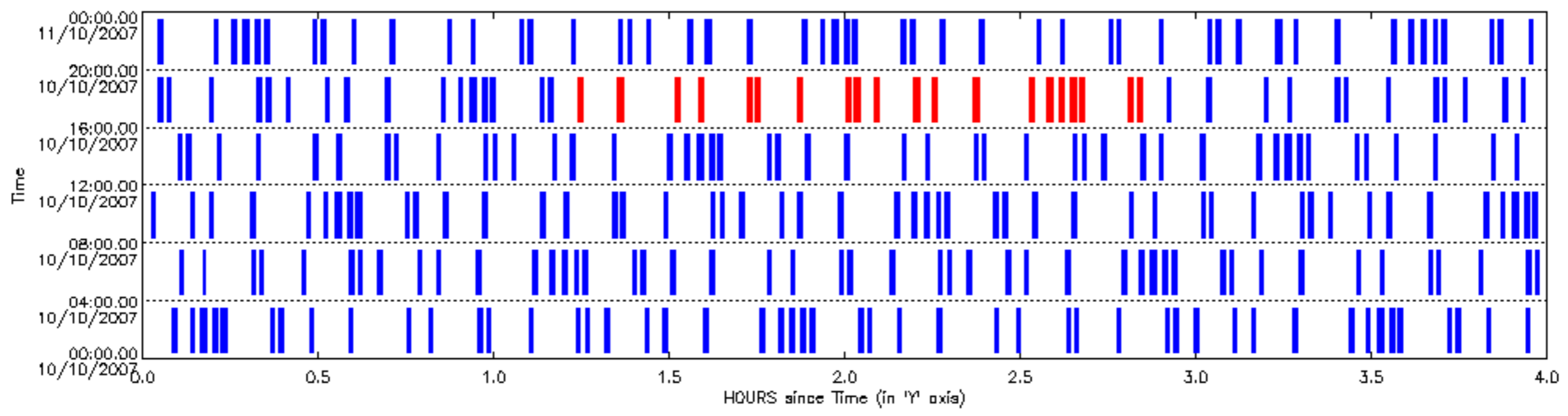
Lower curve: STD of SATU X axis



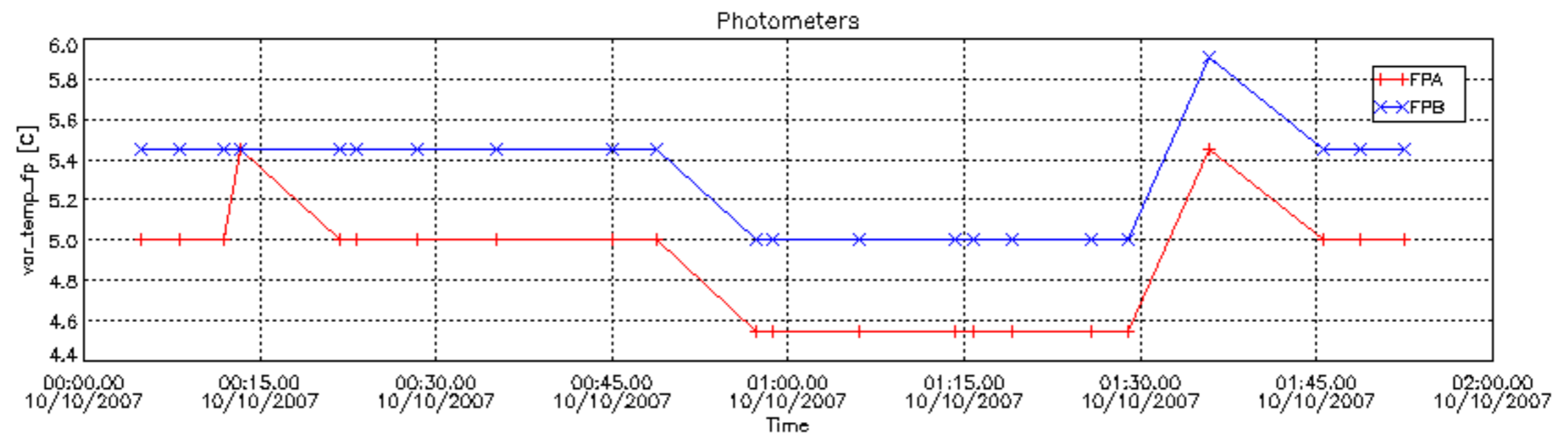
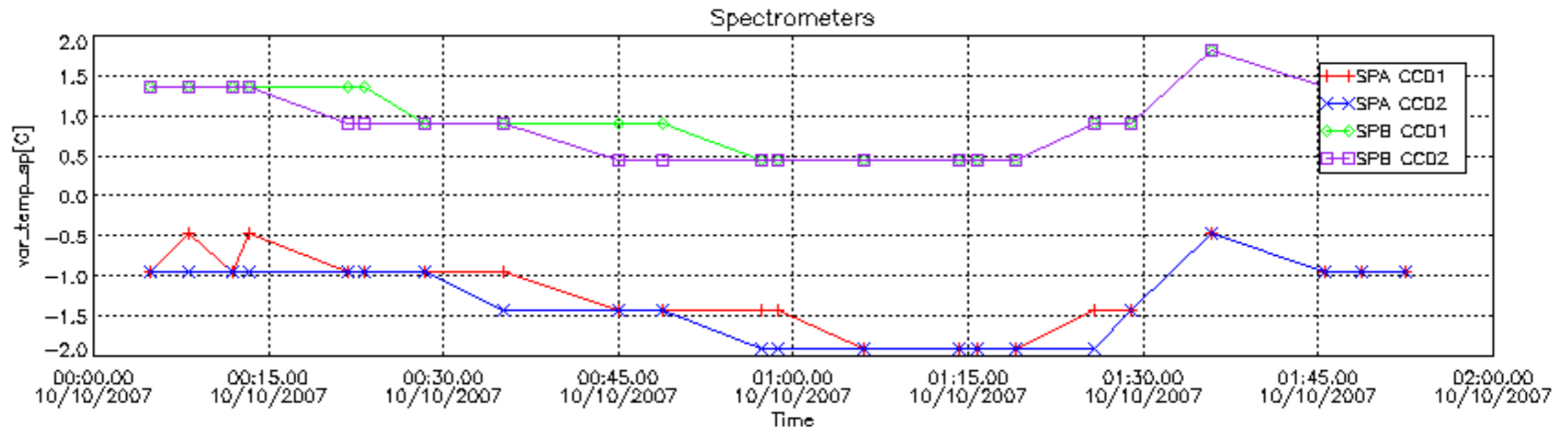
### 8. Auxiliary Data Files used for the production reported in section 2.4

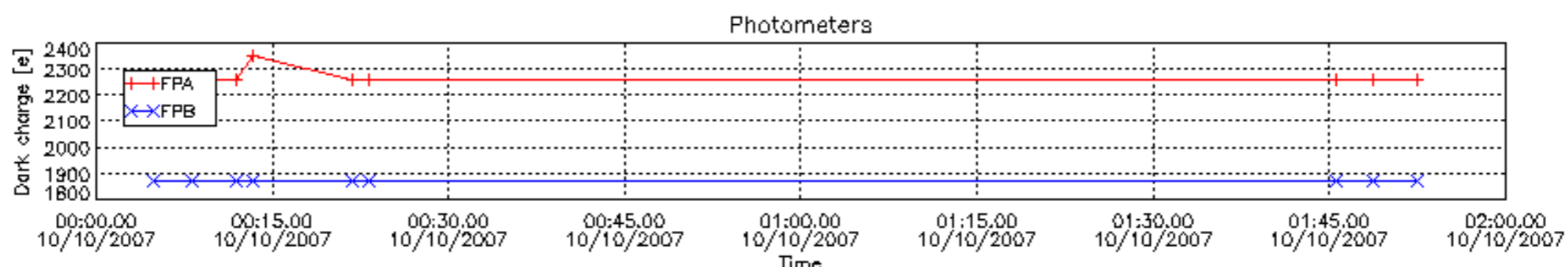
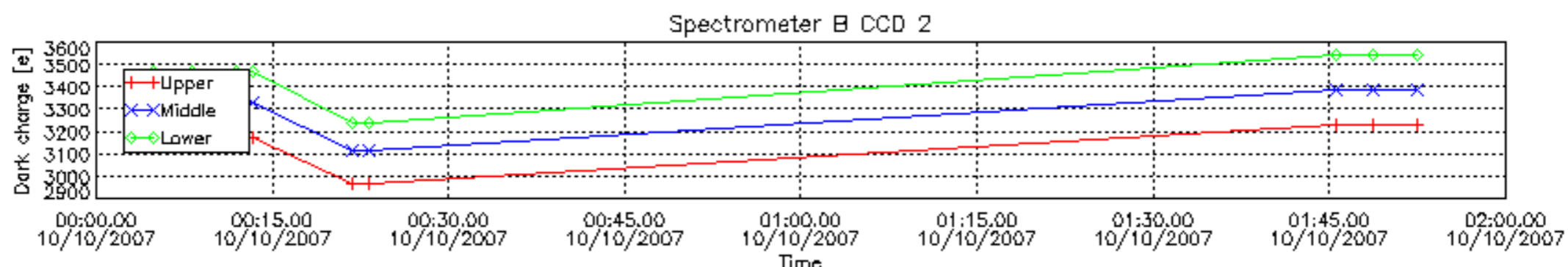
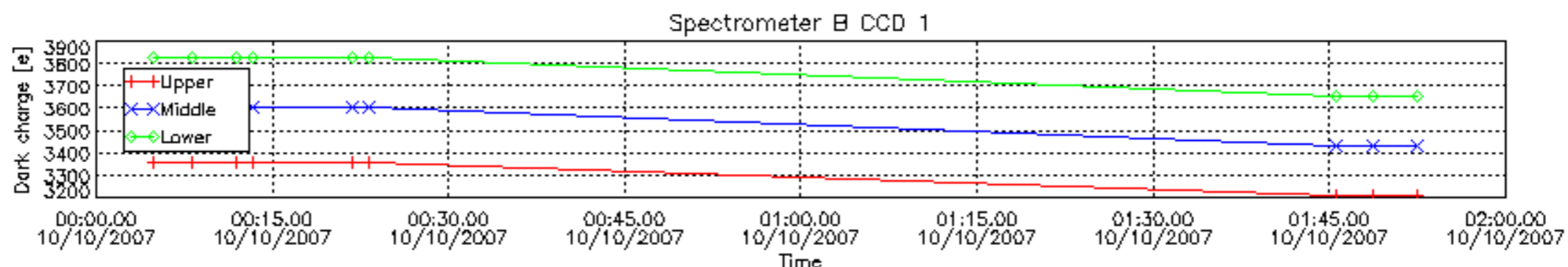
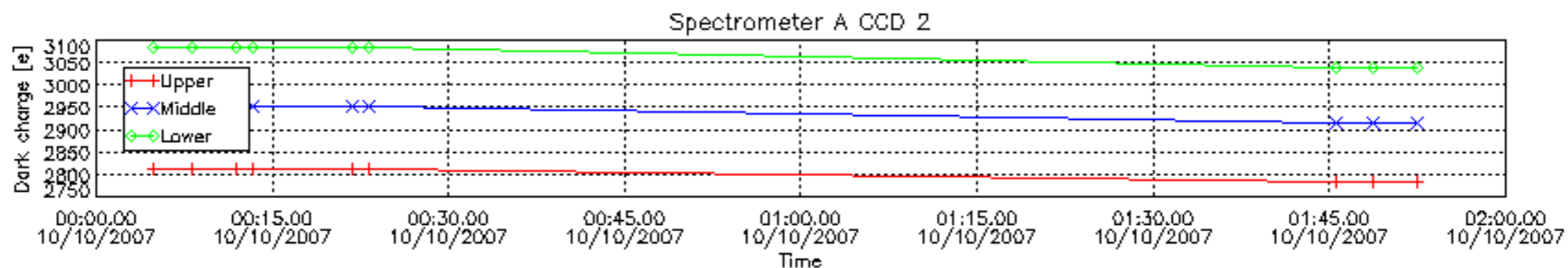
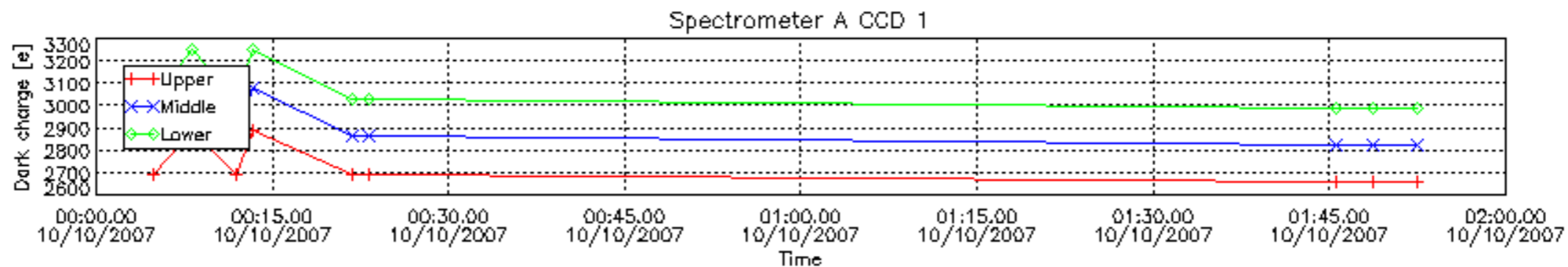
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000  | 1                  | 10-OCT-2007 00:04:53    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000  | 1                  | 10-OCT-2007 00:04:53    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000  | 1                  | 10-OCT-2007 00:04:53    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 10-OCT-2007 00:04:53    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000  | 1                  | 10-OCT-2007 00:04:53    |
| ECMWF_FILE                | AUX_ECF_AXNECM20071009_060113_20071009_210000_20071010_090000  | 1                  | 10-OCT-2007 00:04:53    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 10-OCT-2007 00:04:53    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_235314_000057382062_00216_29328_4324.N1 | 1                  | 10-OCT-2007 00:04:53    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_221217_000057382062_00215_29327_4323.N1 | 2                  | 10-OCT-2007 00:08:06    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_235314_000057382062_00216_29328_4324.N1 | 3                  | 10-OCT-2007 00:11:55    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_221217_000057382062_00215_29327_4323.N1 | 6                  | 10-OCT-2007 00:23:16    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_235314_000057382062_00216_29328_4324.N1 | 7                  | 10-OCT-2007 00:28:25    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_221217_000057382062_00215_29327_4323.N1 | 12                 | 10-OCT-2007 00:58:43    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_235314_000057382062_00216_29328_4324.N1 | 13                 | 10-OCT-2007 01:06:00    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_221217_000057382062_00215_29327_4323.N1 | 16                 | 10-OCT-2007 01:18:59    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071009_235314_000057382062_00216_29328_4324.N1 | 17                 | 10-OCT-2007 01:25:46    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20071010_013412_000041442062_00217_29329_4325.N1 | 19                 | 10-OCT-2007 01:35:52    |



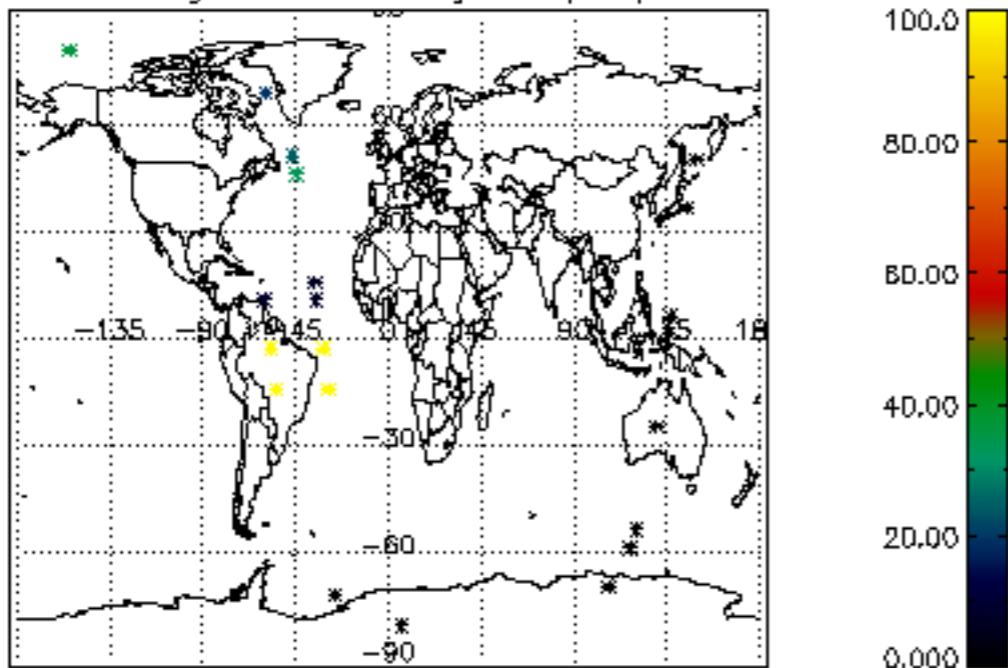




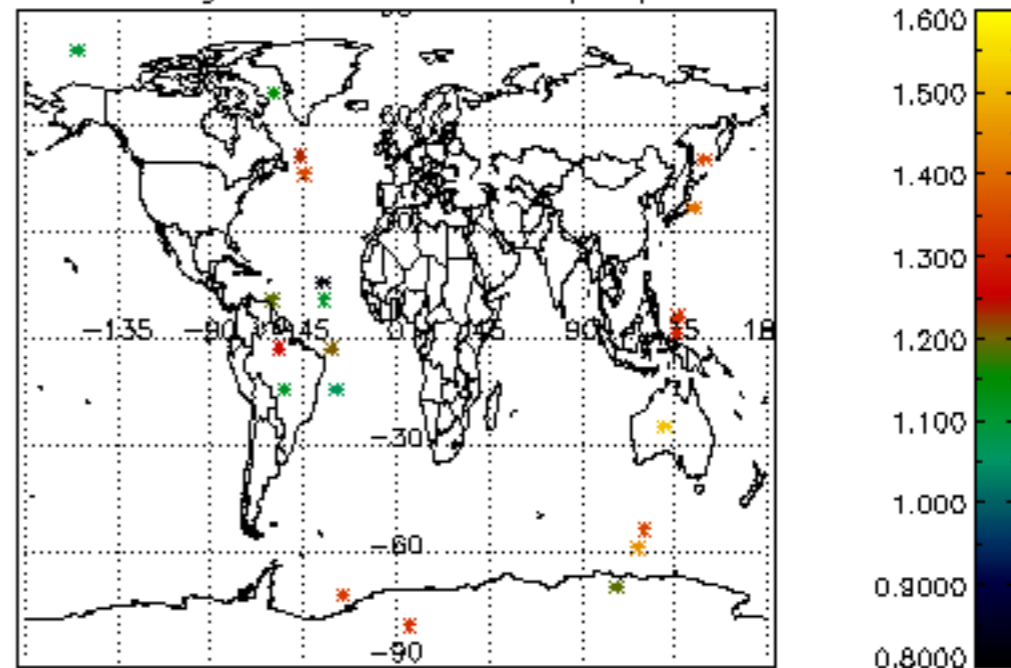




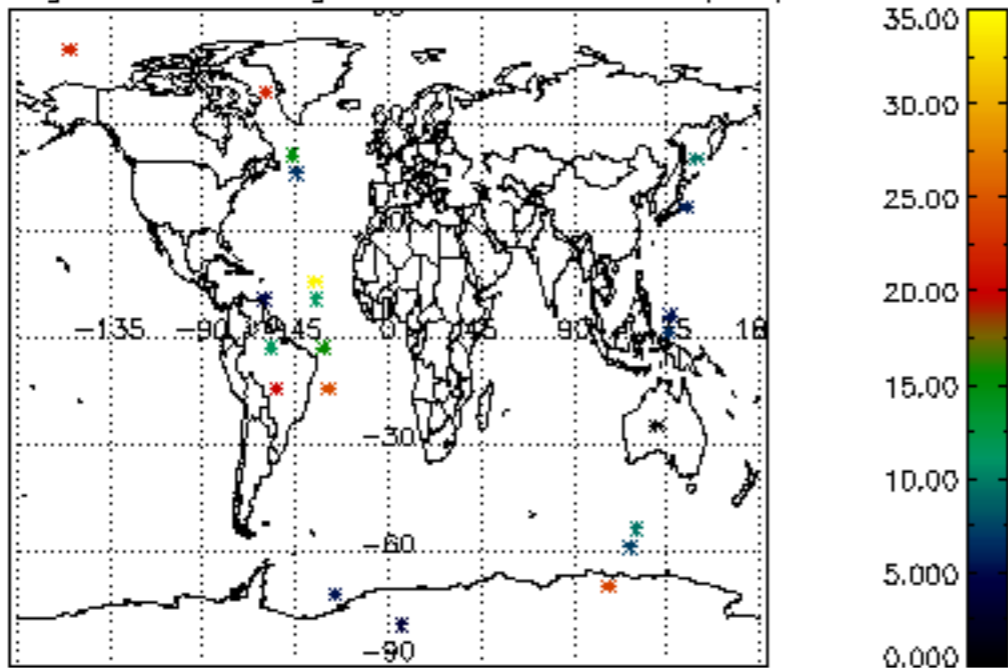
Percentage of cosmic ray hits per profile



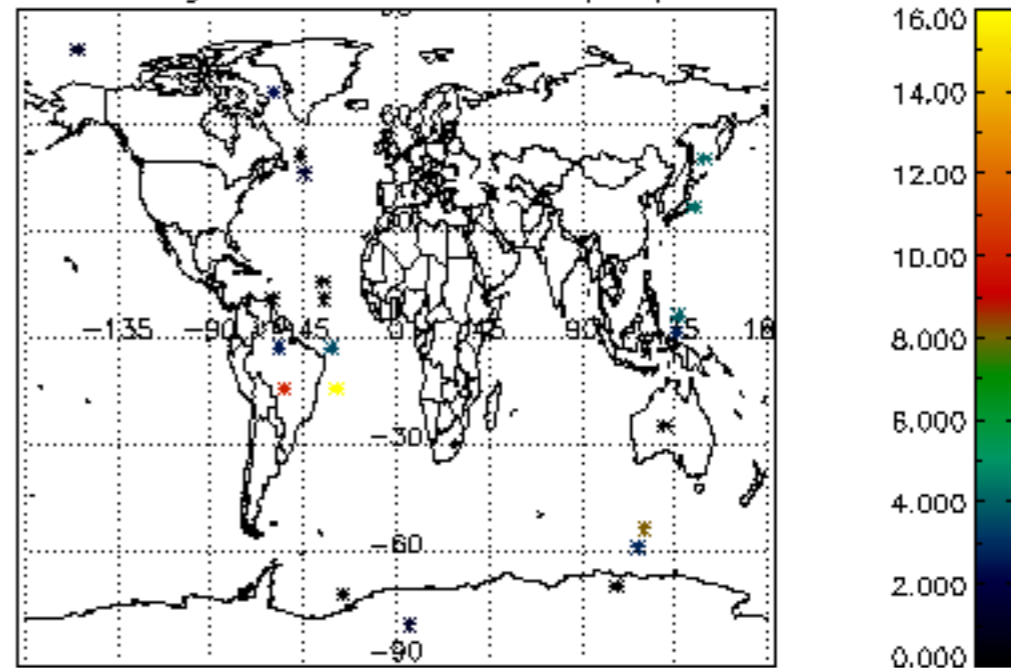
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

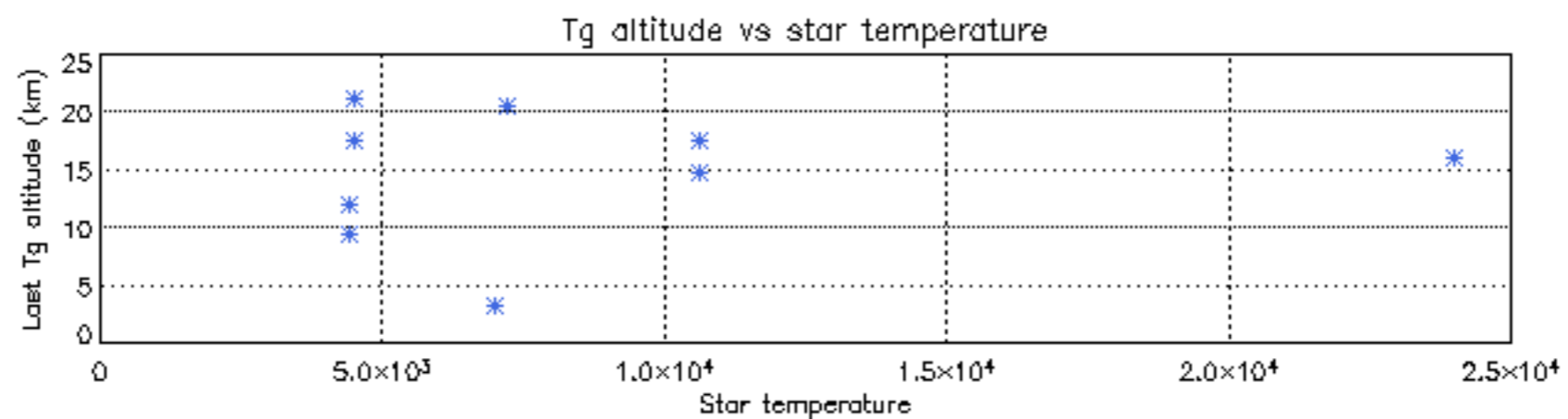
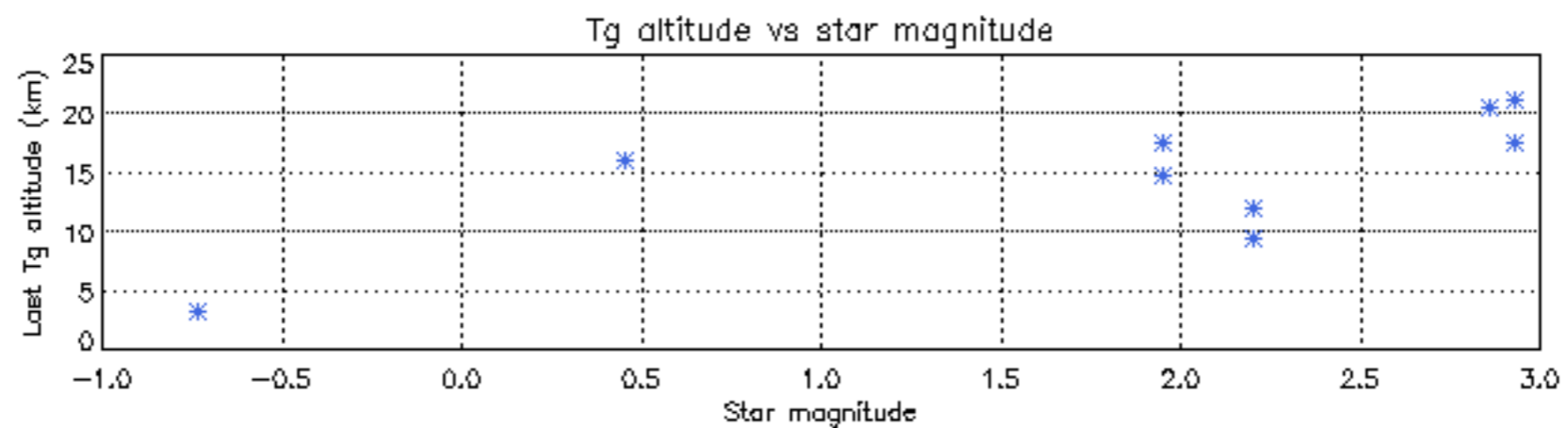
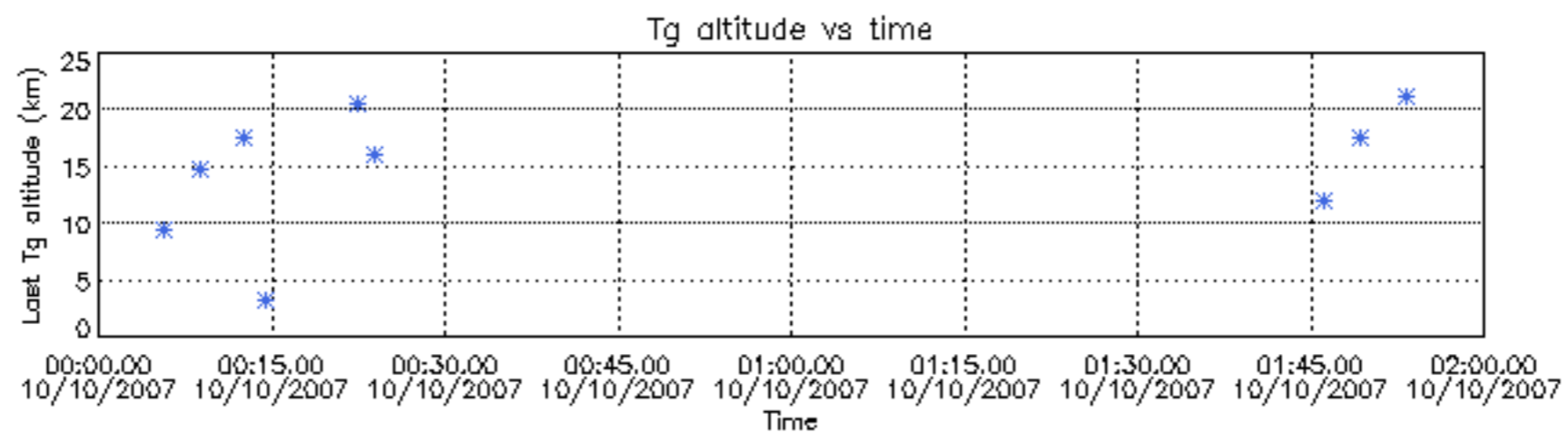


Percentage of saturation errors per profile

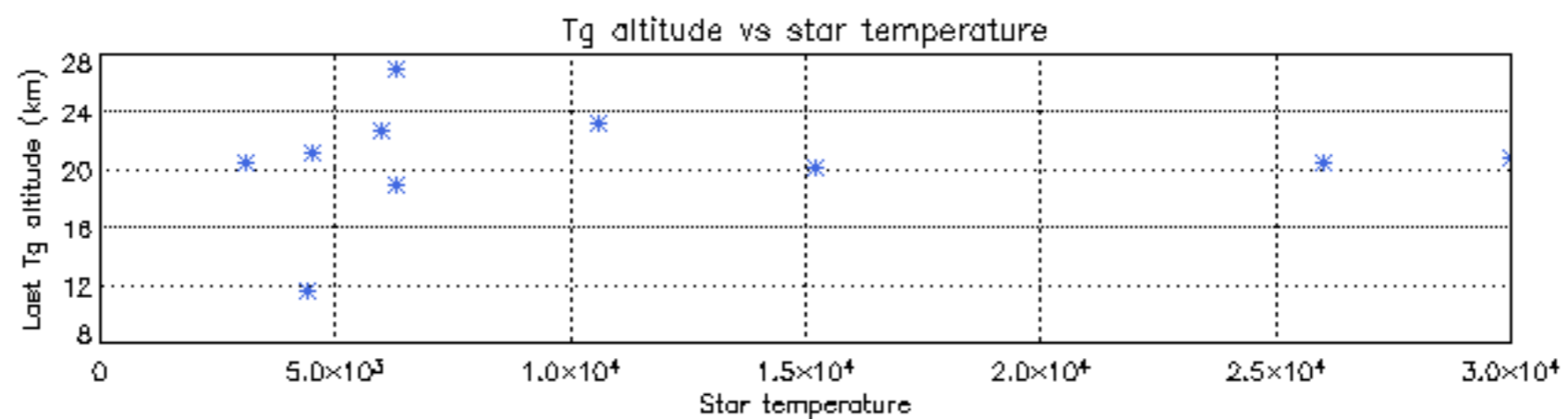
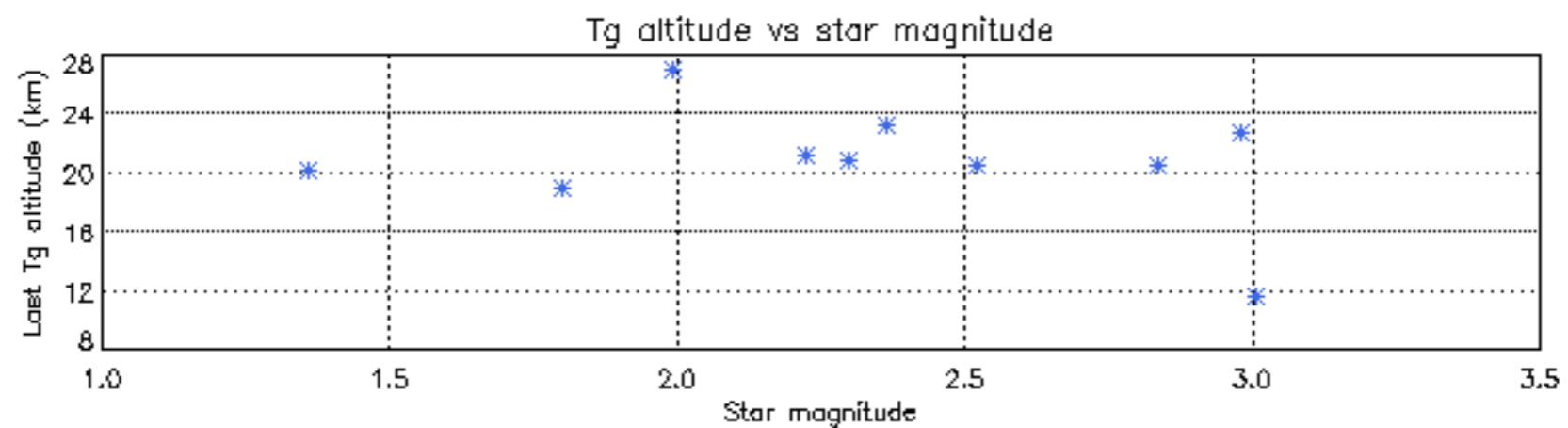
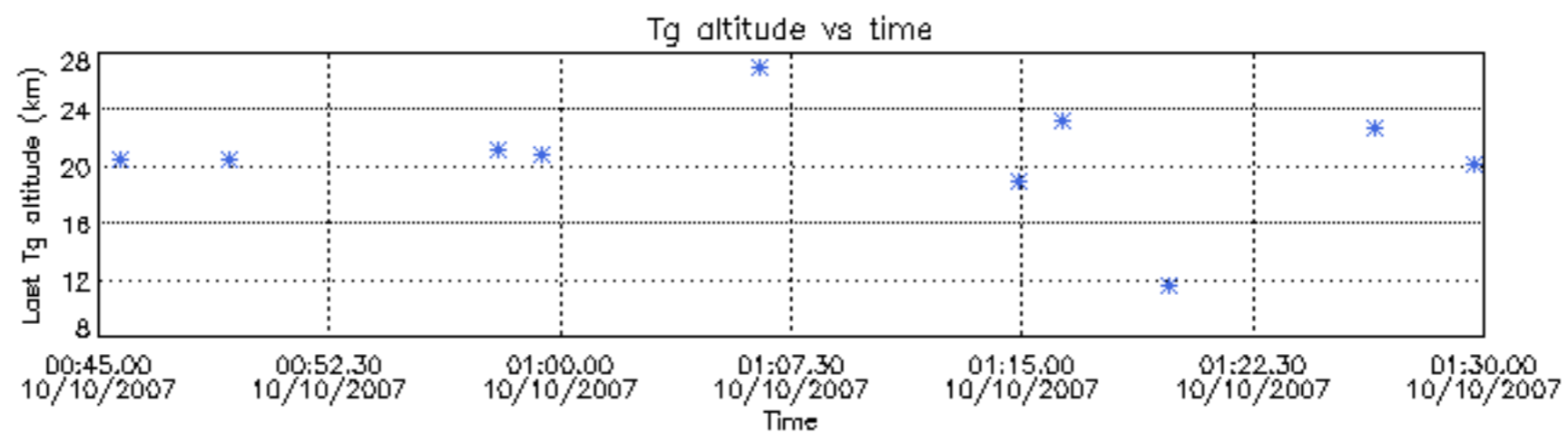


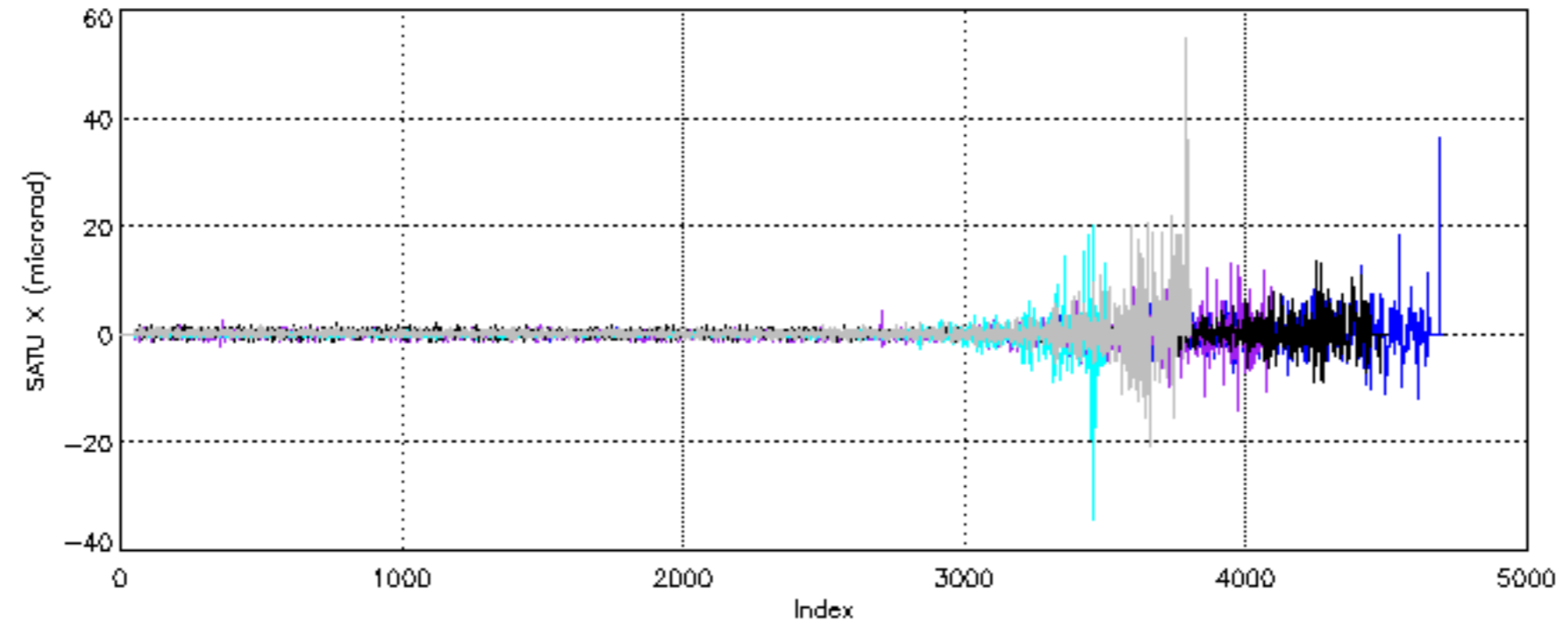


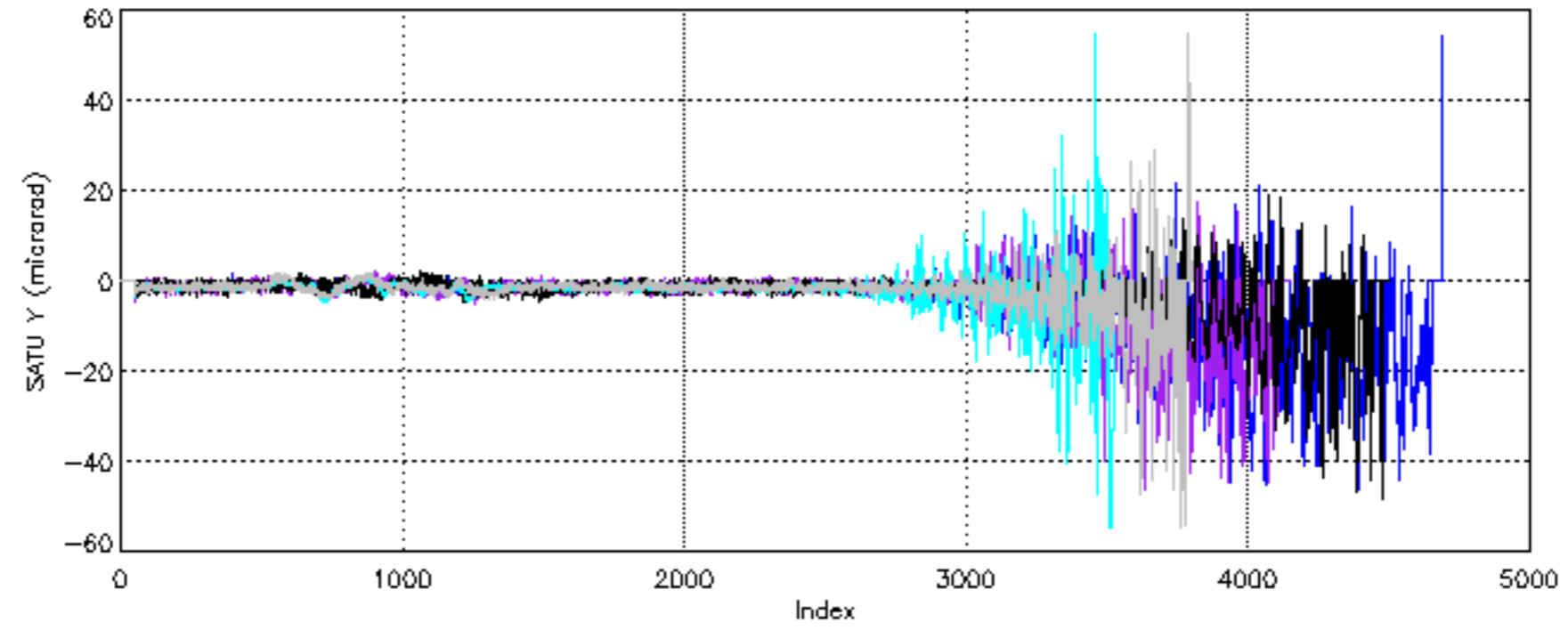
Tangent altitude at which the star is lost



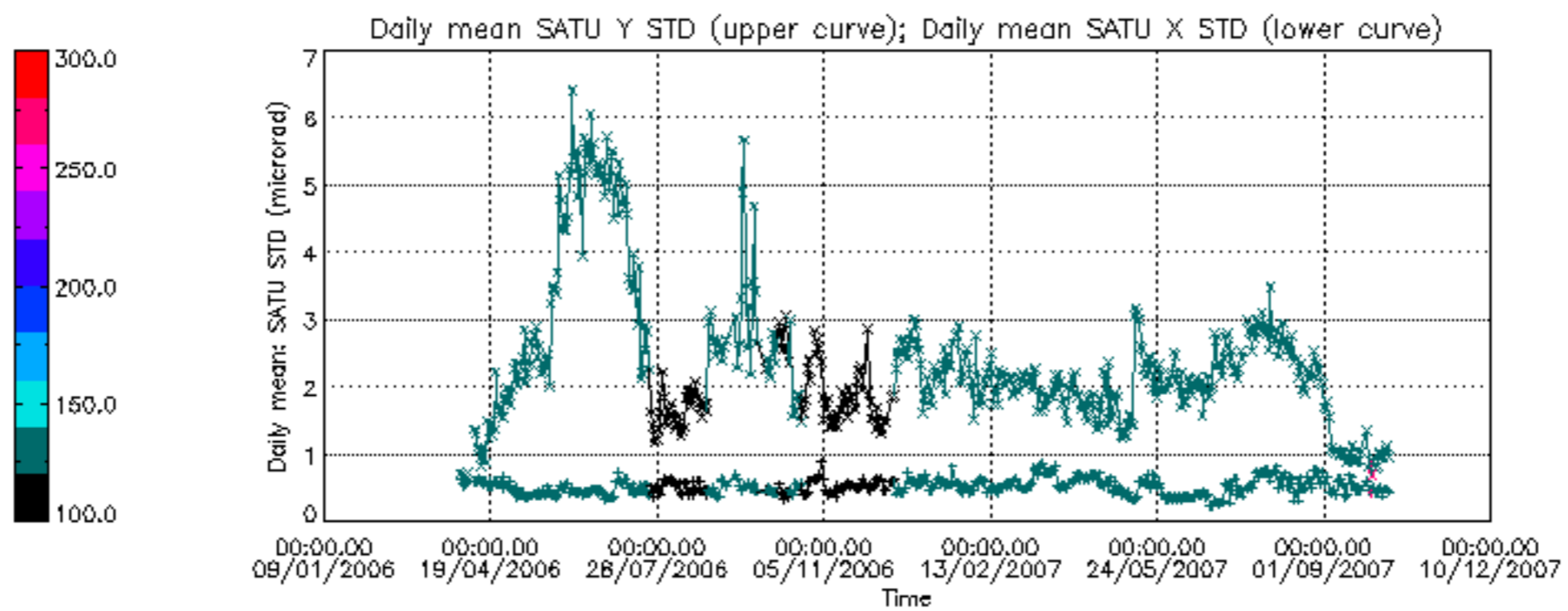
Tangent altitude at which the star is lost











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5; -289.4; 02-OCT-2007 07:38:11; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29218
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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
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13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
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5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
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 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220  
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16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
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4; 102.4; 02-OCT-2007 22:50:06; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29228
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14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
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16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
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 14; 6778.4; 03-OCT-2007 09:04:22; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;29233  
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 16; 7185.0; 03-OCT-2007 09:11:09; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;29233  
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13; 3018.1; 04-OCT-2007 02:28:17; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29244
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11; 746.5; 04-OCT-2007 03:31:01; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29245
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16; 2387.3; 04-OCT-2007 05:38:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29246
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2;-2031.3; 07-OCT-2007 04:31:04; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29288  
3;-1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288  
4;-1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288  
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288  
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288  
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288  
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288  
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289



11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289  
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289  
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289  
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289  
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289  
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289  
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300  
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300  
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300  
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300  
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300  
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300  
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300  
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300  
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300  
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300  
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300  
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289  
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289  
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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290  
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 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290  
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290  
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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290  
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290  
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290  
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290  
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290  
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290  
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290  
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290  
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290  
 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290  
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290  
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
12; 5877.3; 07-OCT-2007 10:04:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;29291
13; 5972.8; 07-OCT-2007 10:05:40; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29291
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16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
18; 6886.8; 07-OCT-2007 10:20:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29291
19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
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3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
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9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
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11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
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16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
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19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
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5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
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7; 3913.6; 07-OCT-2007 12:52:33; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29293
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9; 4201.8; 07-OCT-2007 12:57:21; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29293
10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
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16; 6061.7; 07-OCT-2007 13:28:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29293
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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4; 2916.3; 07-OCT-2007 14:16:32; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29294

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19; 6887.9; 07-OCT-2007 15:22:43; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29294
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| 9;  | 3920.0; | 21-OCT-2007 | 12:12:25; | Bright; | ; | 53.0; | 36;  | 50Alp  | UMa | ; | 1.80;  | 6300;  | occ; | 106; | 0; | 29493 |
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| 12; | 4696.2; | 21-OCT-2007 | 12:25:21; | Bright; | ; | 41.0; | 51;  | 41Gam1 | Leo | ; | 2.01;  | 4500;  | occ; | 82;  | 0; | 29493 |
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| 13; | 5811.0; | 21-OCT-2007 | 14:24:32; | Dark    | ; | 40.5; | 113; | Mu     | Vel | ; | 2.69;  | 5000;  | occ; | 81;  | 0; | 29494 |
| 14; | 5895.5; | 21-OCT-2007 | 14:25:56; | Dark    | ; | 48.5; | 65;  | Lam    | Vel | ; | 2.20;  | 4400;  | occ; | 97;  | 0; | 29494 |
| 15; | 5980.5; | 21-OCT-2007 | 14:27:21; | Dark    | ; | 59.5; | 0;   |        |     | ; | 0.00;  | 0;     | occ; | 119; | 0; | 29494 |
| 16; | 6096.8; | 21-OCT-2007 | 14:29:18; | Dark    | ; | 43.0; | 34;  | Gam2   | Vel | ; | 1.79;  | 23000; | occ; | 86;  | 0; | 29494 |
| 17; | 6197.7; | 21-OCT-2007 | 14:30:59; | Dark    | ; | 38.5; | 29;  | Bet    | Car | ; | 1.67;  | 10200; | occ; | 77;  | 0; | 29494 |
| 18; | 6435.9; | 21-OCT-2007 | 14:34:57; | Dark    | ; | 47.0; | 2;   | Alp    | Car | ; | -0.74; | 7000;  | occ; | 94;  | 0; | 29494 |
| 19; | 6861.0; | 21-OCT-2007 | 14:42:02; | Dark    | ; | 37.5; | 143; | Alp    | Hyi | ; | 2.86;  | 7200;  | occ; | 75;  | 0; | 29494 |
| 20; | 6946.5; | 21-OCT-2007 | 14:43:27; | Dark    | ; | 43.5; | 9;   | Alp    | Eri | ; | 0.45;  | 24000; | occ; | 87;  | 0; | 29494 |
| 21; | 7117.0; | 21-OCT-2007 | 14:46:18; | Dark    | ; | 43.5; | 157; | The1   | Eri | ; | 2.91;  | 9300;  | occ; | 87;  | 0; | 29494 |

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|     |         |             |           |         |   |       |      |        |     |   |        |        |      |      |    |       |
|-----|---------|-------------|-----------|---------|---|-------|------|--------|-----|---|--------|--------|------|------|----|-------|
| 1;  | 1598.8; | 21-OCT-2007 | 14:54:56; | Dark    | ; | 44.5; | 52;  | 16Bet  | Cet | ; | 2.04;  | 4500;  | occ; | 89;  | 0; | 29495 |
| 2;  | 2170.3; | 21-OCT-2007 | 15:04:27; | Bright; | ; | 36.0; | 140; | 88Gam  | Peg | ; | 2.83;  | 26000; | occ; | 72;  | 0; | 29495 |
| 3;  | 2404.9; | 21-OCT-2007 | 15:08:22; | Bright; | ; | 36.0; | 58;  | 21Alp  | And | ; | 2.07;  | 11000; | occ; | 72;  | 0; | 29495 |
| 4;  | 2534.0; | 21-OCT-2007 | 15:10:31; | Bright; | ; | 40.5; | 53;  | 43Bet  | And | ; | 2.05;  | 3300;  | occ; | 81;  | 0; | 29495 |
| 5;  | 2875.1; | 21-OCT-2007 | 15:16:12; | Bright; | ; | 35.0; | 68;  | 18Alp  | Cas | ; | 2.22;  | 4500;  | occ; | 70;  | 0; | 29495 |
| 6;  | 2953.5; | 21-OCT-2007 | 15:17:30; | Bright; | ; | 38.0; | 76;  | 27Gam  | Cas | ; | 2.30;  | 30000; | occ; | 76;  | 0; | 29495 |
| 7;  | 3425.3; | 21-OCT-2007 | 15:25:22; | Bright; | ; | 36.0; | 49;  | 1Alp   | UMi | ; | 1.99;  | 6300;  | occ; | 72;  | 0; | 29495 |
| 8;  | 3623.3; | 21-OCT-2007 | 15:28:40; | Bright; | ; | 35.5; | 60;  | 7Bet   | UMi | ; | 2.08;  | 3950;  | occ; | 71;  | 0; | 29495 |
| 9;  | 3920.3; | 21-OCT-2007 | 15:33:37; | Bright; | ; | 37.5; | 36;  | 50Alp  | UMa | ; | 1.80;  | 6300;  | occ; | 75;  | 0; | 29495 |
| 10; | 4014.6; | 21-OCT-2007 | 15:35:11; | Bright; | ; | 34.0; | 82;  | 48Bet  | UMa | ; | 2.37;  | 10600; | occ; | 68;  | 0; | 29495 |
| 11; | 4223.1; | 21-OCT-2007 | 15:38:40; | Bright; | ; | 37.5; | 174; | 52Psi  | UMa | ; | 3.00;  | 4400;  | occ; | 75;  | 0; | 29495 |
| 12; | 4697.0; | 21-OCT-2007 | 15:46:34; | Bright; | ; | 40.5; | 51;  | 41Gam1 | Leo | ; | 2.01;  | 4500;  | occ; | 81;  | 0; | 29495 |
| 13; | 5811.3; | 21-OCT-2007 | 16:05:08; | Dark    | ; | 38.0; | 113; | Mu     | Vel | ; | 2.69;  | 5000;  | occ; | 76;  | 0; | 29495 |
| 14; | 5896.3; | 21-OCT-2007 | 16:06:33; | Dark    | ; | 55.0; | 65;  | Lam    | Vel | ; | 2.20;  | 4400;  | occ; | 110; | 0; | 29495 |
| 15; | 5981.3; | 21-OCT-2007 | 16:07:58; | Dark    | ; | 59.5; | 0;   |        |     | ; | 0.00;  | 0;     | occ; | 119; | 0; | 29495 |
| 16; | 6097.7; | 21-OCT-2007 | 16:09:54; | Dark    | ; | 42.0; | 34;  | Gam2   | Vel | ; | 1.79;  | 23000; | occ; | 84;  | 0; | 29495 |
| 17; | 6198.1; | 21-OCT-2007 | 16:11:35; | Dark    | ; | 38.5; | 29;  | Bet    | Car | ; | 1.67;  | 10200; | occ; | 77;  | 0; | 29495 |
| 18; | 6436.8; | 21-OCT-2007 | 16:15:34; | Dark    | ; | 47.0; | 2;   | Alp    | Car | ; | -0.74; | 7000;  | occ; | 94;  | 0; | 29495 |
| 19; | 6861.3; | 21-OCT-2007 | 16:22:38; | Dark    | ; | 36.5; | 143; | Alp    | Hyi | ; | 2.86;  | 7200;  | occ; | 73;  | 0; | 29495 |
| 20; | 6946.9; | 21-OCT-2007 | 16:24:04; | Dark    | ; | 46.5; | 9;   | Alp    | Eri | ; | 0.45;  | 24000; | occ; | 93;  | 0; | 29495 |
| 21; | 7117.7; | 21-OCT-2007 | 16:26:54; | Dark    | ; | 42.5; | 157; | The1   | Eri | ; | 2.91;  | 9300;  | occ; | 85;  | 0; | 29495 |

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|----|---------|-------------|-----------|------|---|-------|-----|-------|-----|---|-------|-------|------|-----|----|-------|
| 1; | 1598.9; | 21-OCT-2007 | 16:35:32; | Dark | ; | 43.0; | 52; | 16Bet | Cet | ; | 2.04; | 4500; | occ; | 86; | 0; | 29496 |
|----|---------|-------------|-----------|------|---|-------|-----|-------|-----|---|-------|-------|------|-----|----|-------|



2; 2170.4; 21-OCT-2007 16:45:03; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29496  
 3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496  
 4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496  
 5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496  
 6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496  
 7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496  
 8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496  
 9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496  
 10; 4014.6; 21-OCT-2007 17:15:47; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29496  
 11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496  
 12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496  
 13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496  
 14; 5896.9; 21-OCT-2007 17:47:10; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29496  
 15; 5981.9; 21-OCT-2007 17:48:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29496  
 16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496  
 17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496  
 18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496  
 19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496  
 20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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 2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497  
 3; 1599.0; 21-OCT-2007 18:16:08; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29497  
 4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497  
 5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
 6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497  
 7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
 8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497  
 9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497  
 10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497  
 11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497  
 12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497  
 13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497  
 14; 4697.5; 21-OCT-2007 19:07:46; Bright; 59.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 118; 0;29497  
 15; 5811.8; 21-OCT-2007 19:26:21; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29497  
 16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497  
 17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497  
 18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497  
 19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497  
 20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497  
 21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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 3; -52.8; 21-OCT-2007 21:09:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29498  
 4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499  
 5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499  
 6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499  
 7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499  
 8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499  
 9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499  
 10; 1599.2; 21-OCT-2007 21:37:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29499  
 11; 2170.6; 21-OCT-2007 21:46:51; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29499  
 12; 2405.0; 21-OCT-2007 21:50:46; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29499  
 13; 2533.1; 21-OCT-2007 21:52:54; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29499  
 14; 2874.5; 21-OCT-2007 21:58:35; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29499  
 15; 2953.0; 21-OCT-2007 21:59:54; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29499  
 16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499  
 17; 3624.0; 21-OCT-2007 22:11:05; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29499  
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 21; 4697.8; 21-OCT-2007 22:28:59; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;29499

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 3; -52.2; 21-OCT-2007 22:50:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29499  
 4; 41.5; 21-OCT-2007 22:51:58; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29500

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6; 403.9; 21-OCT-2007 22:58:00; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29500
7; 826.2; 21-OCT-2007 23:05:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29500
8; 911.7; 21-OCT-2007 23:06:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29500
9; 1083.2; 21-OCT-2007 23:09:20; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29500
10; 1599.4; 21-OCT-2007 23:17:56; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29500
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12; 2405.1; 21-OCT-2007 23:31:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29500
13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
14; 2874.4; 21-OCT-2007 23:39:11; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29500
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16; 3425.1; 21-OCT-2007 23:48:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29500
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18; 3919.9; 21-OCT-2007 23:56:36; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29500
19; 4014.2; 21-OCT-2007 23:58:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29500
20; 4223.4; 22-OCT-2007 00:01:40; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29500
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3; 163.3; 22-OCT-2007 00:34:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29501
4; 404.8; 22-OCT-2007 00:38:37; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29501
5; 826.4; 22-OCT-2007 00:45:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29501
6; 911.9; 22-OCT-2007 00:47:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29501
7; 1083.7; 22-OCT-2007 00:49:56; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29501
8; 1599.6; 22-OCT-2007 00:58:32; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29501
9; 2170.8; 22-OCT-2007 01:08:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29501
10; 2405.1; 22-OCT-2007 01:11:58; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29501
11; 2532.7; 22-OCT-2007 01:14:05; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29501
12; 2874.3; 22-OCT-2007 01:19:47; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29501
13; 2952.6; 22-OCT-2007 01:21:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29501
14; 3425.1; 22-OCT-2007 01:28:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29501
15; 3624.4; 22-OCT-2007 01:32:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29501
16; 3919.8; 22-OCT-2007 01:37:12; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29501
17; 4014.1; 22-OCT-2007 01:38:47; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29501
18; 4223.4; 22-OCT-2007 01:42:16; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29501
19; 4698.7; 22-OCT-2007 01:50:11; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;29501
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3; 163.6; 22-OCT-2007 02:15:12; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29502
4; 405.6; 22-OCT-2007 02:19:14; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29502
5; 826.9; 22-OCT-2007 02:26:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29502
6; 912.2; 22-OCT-2007 02:27:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29502
7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
8; 1599.8; 22-OCT-2007 02:39:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29502
9; 2170.9; 22-OCT-2007 02:48:39; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29502
10; 2405.3; 22-OCT-2007 02:52:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29502
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3; 2405.7; 22-OCT-2007 12:56:10; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29508
4; 2531.3; 22-OCT-2007 12:58:15; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29508
5; 2873.7; 22-OCT-2007 13:03:58; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29508
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8; 3626.0; 22-OCT-2007 13:16:30; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29508
9; 3919.8; 22-OCT-2007 13:21:24; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29508
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11; 4224.0; 22-OCT-2007 13:26:28; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29508
12; 4700.7; 22-OCT-2007 13:34:25; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29508
13; 5814.7; 22-OCT-2007 13:52:59; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29508
14; 5905.3; 22-OCT-2007 13:54:29; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;29508
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16; 6082.7; 22-OCT-2007 13:57:27; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29508
17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
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4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
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9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
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11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509
16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
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 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510  
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 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511  
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 18; 6202.5; 22-OCT-2007 19:01:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29511  
 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511  
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 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512  
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 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512  
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512  
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 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512  
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512  
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515  
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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515  
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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516  
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9; 61.7; 24-OCT-2007 07:52:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29534
10; 172.9; 24-OCT-2007 07:54:31; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29534
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