

# GOMOS Daily Report 07-SEP-2006

## 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 | 09SEP2006 05:32:03                            |
| Data source version       | GOMOS/5.00                                    |
| Start time of products    | QDS_YESTERDAY(/START)-1D (07SEP2006 00:00:00) |
| Stop time of products     | QDS_YESTERDAY(/STOP)-1D (08SEP2006 00:00:00)  |
| Store outputs in DB       | Yes                                           |
| Nb of level 1b prods      | 46                                            |
| Nb of prods with errors   | 0                                             |

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

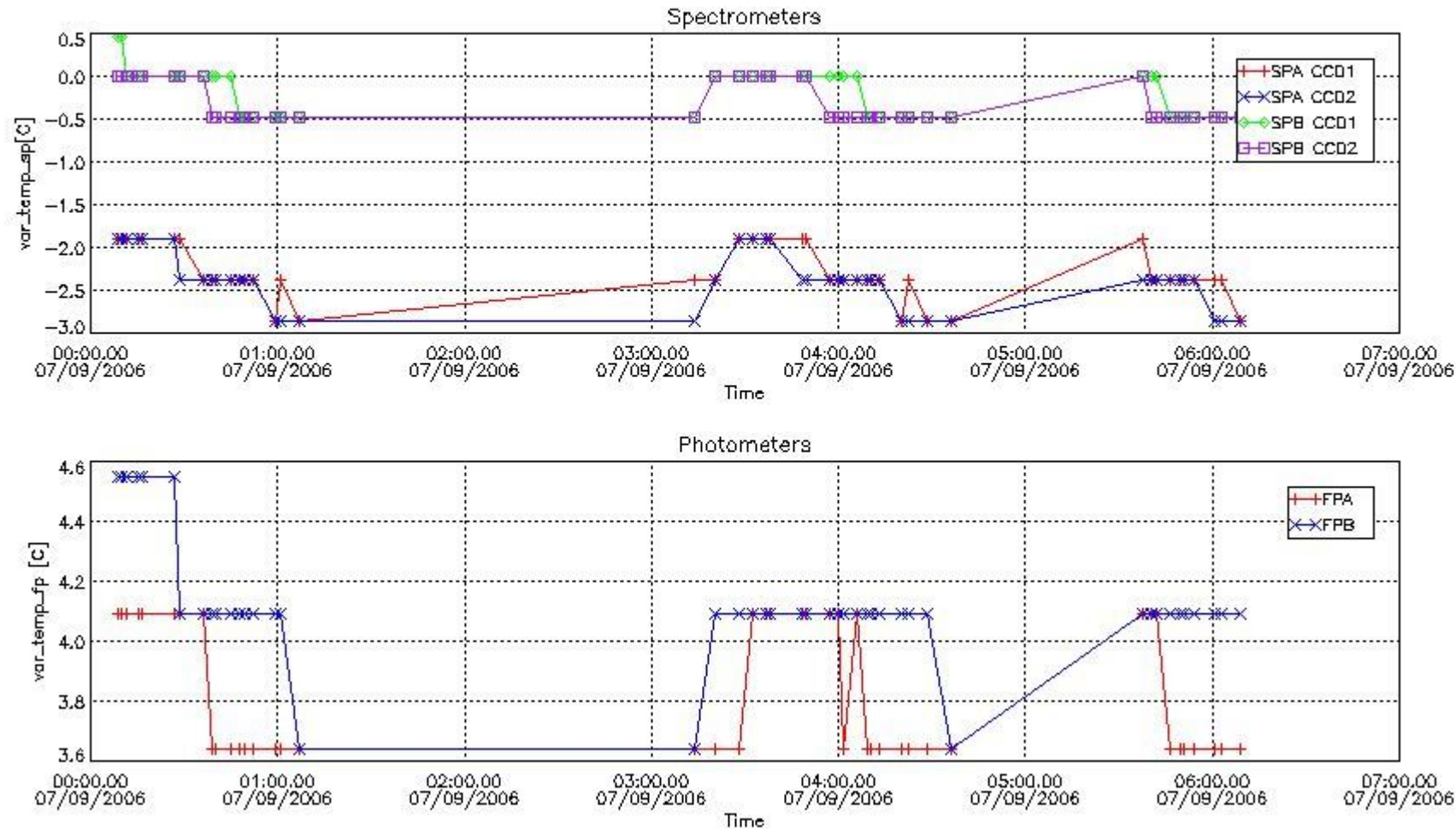
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

| Nr | Filename                                                       | UTC Start time       | Limb       | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|----------------------------------------------------------------|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_TRA_1PNPDE20060907_000836_000000432051_00030_23631_1238.N1 | 07-SEP-2006 00:08:36 | Dark       | 43.000   | 179     | 24Omi2CMa | 3.0320   | 24000.    | 86      | 23631 | No          |
| 2  | GOM_TRA_1PNPDE20060907_001005_000000482051_00030_23631_1250.N1 | 07-SEP-2006 00:10:05 | Dark       | 48.000   | 23      | 21Eps CMa | 1.5020   | 26000.    | 96      | 23631 | No          |
| 3  | GOM_TRA_1PNPDE20060907_001128_000000432051_00030_23631_1230.N1 | 07-SEP-2006 00:11:28 | Dark       | 42.500   | 117     | Pi Pup    | 2.7060   | 3800.0    | 85      | 23631 | No          |
| 4  | GOM_TRA_1PNPDE20060907_001529_000000402051_00030_23631_1231.N1 | 07-SEP-2006 00:15:29 | Dark       | 40.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 80      | 23631 | No          |
| 5  | GOM_TRA_1PNPDE20060907_001642_000000452051_00030_23631_1232.N1 | 07-SEP-2006 00:16:42 | Dark       | 44.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 89      | 23631 | No          |
| 6  | GOM_TRA_1PNPDE20060907_002706_000000392051_00031_23632_1233.N1 | 07-SEP-2006 00:27:06 | Dark       | 38.500   | 143     | Alp Hyi   | 2.8570   | 7200.0    | 77      | 23632 | No          |
| 7  | GOM_TRA_1PNPDE20060907_002827_000000522051_00031_23632_1234.N1 | 07-SEP-2006 00:28:27 | Dark       | 51.500   | 9       | Alp Eri   | 0.45300  | 24000.    | 103     | 23632 | No          |
| 8  | GOM_TRA_1PNPDE20060907_003557_000000392051_00031_23632_1235.N1 | 07-SEP-2006 00:35:57 | Straylight | 39.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 78      | 23632 | No          |
| 9  | GOM_TRA_1PNPDE20060907_003846_000000382051_00031_23632_1236.N1 | 07-SEP-2006 00:38:46 | Straylight | 37.500   | 172     | Gam Gru   | 3.0030   | 13100.    | 75      | 23632 | No          |
| 10 | GOM_TRA_1PNPDE20060907_004005_000000482051_00031_23632_1237.N1 | 07-SEP-2006 00:40:05 | Straylight | 47.500   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 95      | 23632 | No          |
| 11 | GOM_TRA_1PNPDE20060907_004445_000000392051_00031_23632_1238.N1 | 07-SEP-2006 00:44:45 | Bright     | 38.500   | 142     | 49Del Cap | 2.8500   | 8900.0    | 77      | 23632 | No          |
| 12 | GOM_TRA_1PNPDE20060907_004750_000000382051_00031_23632_1239.N1 | 07-SEP-2006 00:47:50 | Bright     | 37.500   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 75      | 23632 | No          |
| 13 | GOM_TRA_1PNPDE20060907_004910_000000392051_00031_23632_1240.N1 | 07-SEP-2006 00:49:10 | Bright     | 38.500   | 162     | 34Alp Aqr | 2.9440   | 5350.0    | 77      | 23632 | No          |
| 14 | GOM_TRA_1PNPDE20060907_005208_000000382051_00031_23632_1241.N1 | 07-SEP-2006 00:52:08 | Bright     | 37.500   | 61      | 8Eps Peg  | 2.1000   | 3900.0    | 75      | 23632 | No          |
| 15 | GOM_TRA_1PNPDE20060907_005910_000000372051_00031_23632_1242.N1 | 07-SEP-2006 00:59:10 | Bright     | 37.000   | 92      | 53Eps Cyg | 2.5000   | 4500.0    | 74      | 23632 | No          |
| 16 | GOM_TRA_1PNPDE20060907_010108_000000352051_00031_23632_1243.N1 | 07-SEP-2006 01:01:08 | Bright     | 35.000   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 70      | 23632 | No          |
| 17 | GOM_TRA_1PNPDE20060907_010704_000000362051_00031_23632_1244.N1 | 07-SEP-2006 01:07:04 | Bright     | 36.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 72      | 23632 | No          |
| 18 | GOM_TRA_1PNPDE20060907_031339_000000562051_00032_23633_1229.N1 | 07-SEP-2006 03:13:39 | Bright     | 56.000   | 17      | 78Bet Gem | 1.1610   | 4500.0    | 112     | 23633 | No          |
| 19 | GOM_TRA_1PNPDE20060907_032034_000000452051_00032_23633_1230.N1 | 07-SEP-2006 03:20:34 | Twilight   | 45.000   | 8       | 10Alp CMi | 0.40000  | 6500.0    | 90      | 23633 | No          |
| 20 | GOM_TRA_1PNPDE20060907_032806_000000402051_00032_23633_1231.N1 | 07-SEP-2006 03:28:06 | Dark       | 40.000   | 132     | 15Rho Pup | 2.8030   | 6900.0    | 80      | 23633 | No          |
| 21 | GOM_TRA_1PNPDE20060907_033241_000000452051_00032_23633_1232.N1 | 07-SEP-2006 03:32:41 | Dark       | 44.500   | 117     | Pi Pup    | 2.7060   | 3800.0    | 89      | 23633 | No          |
| 22 | GOM_TRA_1PNPDE20060907_033642_000000412051_00032_23633_1233.N1 | 07-SEP-2006 03:36:42 | Dark       | 41.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 82      | 23633 | No          |
| 23 | GOM_TRA_1PNPDE20060907_033755_000000452051_00032_23633_1234.N1 | 07-SEP-2006 03:37:55 | Dark       | 44.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 89      | 23633 | No          |
| 24 | GOM_TRA_1PNPDE20060907_034819_000000412051_00033_23634_1235.N1 | 07-SEP-2006 03:48:19 | Dark       | 40.500   | 143     | Alp Hyi   | 2.8570   | 7200.0    | 81      | 23634 | No          |
| 25 | GOM_TRA_1PNPDE20060907_034940_000000432051_00033_23634_1236.N1 | 07-SEP-2006 03:49:40 | Dark       | 43.000   | 9       | Alp Eri   | 0.45300  | 24000.    | 86      | 23634 | No          |
| 26 | GOM_TRA_1PNPDE20060907_035710_000000422051_00033_23634_1237.N1 | 07-SEP-2006 03:57:10 | Straylight | 42.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 84      | 23634 | No          |
| 27 | GOM_TRA_1PNPDE20060907_035958_000000372051_00033_23634_1238.N1 | 07-SEP-2006 03:59:58 | Straylight | 37.000   | 172     | Gam Gru   | 3.0030   | 13100.    | 74      | 23634 | No          |
| 28 | GOM_TRA_1PNPDE20060907_040117_000000462051_00033_23634_1239.N1 | 07-SEP-2006 04:01:17 | Straylight | 46.000   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 92      | 23634 | No          |
| 29 | GOM_TRA_1PNPDE20060907_040557_000000392051_00033_23634_1240.N1 | 07-SEP-2006 04:05:57 | Bright     | 39.000   | 142     | 49Del Cap | 2.8500   | 8900.0    | 78      | 23634 | No          |
| 30 | GOM_TRA_1PNPDE20060907_040902_000000382051_00033_23634_1241.N1 | 07-SEP-2006 04:09:02 | Bright     | 37.500   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 75      | 23634 | No          |
| 31 | GOM_TRA_1PNPDE20060907_041022_000000382051_00033_23634_1242.N1 | 07-SEP-2006 04:10:22 | Bright     | 38.000   | 162     | 34Alp Aqr | 2.9440   | 5350.0    | 76      | 23634 | No          |
| 32 | GOM_TRA_1PNPDE20060907_041320_000000382051_00033_23634_1243.N1 | 07-SEP-2006 04:13:20 | Bright     | 37.500   | 61      | 8Eps Peg  | 2.1000   | 3900.0    | 75      | 23634 | No          |
| 33 | GOM_TRA_1PNPDE20060907_042022_000000362051_00033_23634_1244.N1 | 07-SEP-2006 04:20:22 | Bright     | 36.000   | 92      | 53Eps Cyg | 2.5000   | 4500.0    | 72      | 23634 | No          |
| 34 | GOM_TRA_1PNPDE20060907_042221_000000362051_00033_23634_1245.N1 | 07-SEP-2006 04:22:21 | Bright     | 35.500   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 71      | 23634 | No          |
| 35 | GOM_TRA_1PNPDE20060907_042816_000000362051_00033_23634_1246.N1 | 07-SEP-2006 04:28:16 | Bright     | 36.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 72      | 23634 | No          |
| 36 | GOM_TRA_1PNPDE20060907_043559_000000352051_00033_23634_1247.N1 | 07-SEP-2006 04:35:59 | Bright     | 35.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 70      | 23634 | No          |
| 37 | GOM_TRA_1PNPDE20060907_053746_000000422051_00034_23635_1240.N1 | 07-SEP-2006 05:37:46 | Straylight | 41.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 83      | 23635 | No          |
| 38 | GOM_TRA_1PNPDE20060907_054034_000000382051_00034_23635_1241.N1 | 07-SEP-2006 05:40:34 | Straylight | 38.000   | 172     | Gam Gru   | 3.0030   | 13100.    | 76      | 23635 | No          |
| 39 | GOM_TRA_1PNPDE20060907_054154_000000462051_00034_23635_1242.N1 | 07-SEP-2006 05:41:54 | Straylight | 45.500   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 91      | 23635 | No          |
| 40 | GOM_TRA_1PNPDE20060907_054633_000000402051_00034_23635_1243.N1 | 07-SEP-2006 05:46:33 | Bright     | 39.500   | 142     | 49Del Cap | 2.8500   | 8900.0    | 79      | 23635 | No          |
| 41 | GOM_TRA_1PNPDE20060907_054938_000000372051_00034_23635_1244.N1 | 07-SEP-2006 05:49:38 | Bright     | 37.000   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 74      | 23635 | No          |
| 42 | GOM_TRA_1PNPDE20060907_055058_000000382051_00034_23635_1245.N1 | 07-SEP-2006 05:50:58 | Bright     | 37.500   | 162     | 34Alp Aqr | 2.9440   | 5350.0    | 75      | 23635 | No          |

|    |                                                                |                      |        |        |    |           |        |        |    |       |    |
|----|----------------------------------------------------------------|----------------------|--------|--------|----|-----------|--------|--------|----|-------|----|
| 43 | GOM_TRA_1PNPDE20060907_055356_000000382051_00034_23635_1246.N1 | 07-SEP-2006 05:53:56 | Bright | 37.500 | 61 | 8Eps Peg  | 2.1000 | 3900.0 | 75 | 23635 | No |
| 44 | GOM_TRA_1PNPDE20060907_060058_000000372051_00034_23635_1247.N1 | 07-SEP-2006 06:00:58 | Bright | 37.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 74 | 23635 | No |
| 45 | GOM_TRA_1PNPDE20060907_060257_000000372051_00034_23635_1248.N1 | 07-SEP-2006 06:02:57 | Bright | 37.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 74 | 23635 | No |
| 46 | GOM_TRA_1PNPDE20060907_060852_000000362051_00034_23635_1249.N1 | 07-SEP-2006 06:08:52 | Bright | 36.000 | 89 | 5Alp Cep  | 2.4510 | 8000.0 | 72 | 23635 | No |

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



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

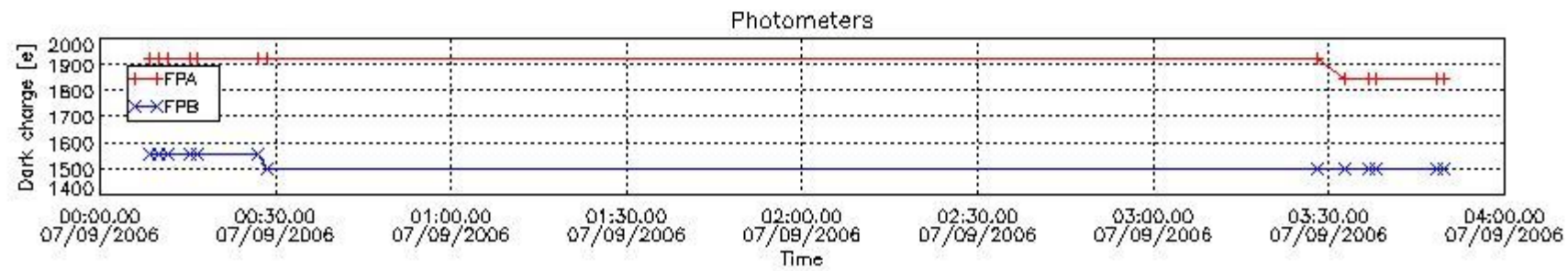
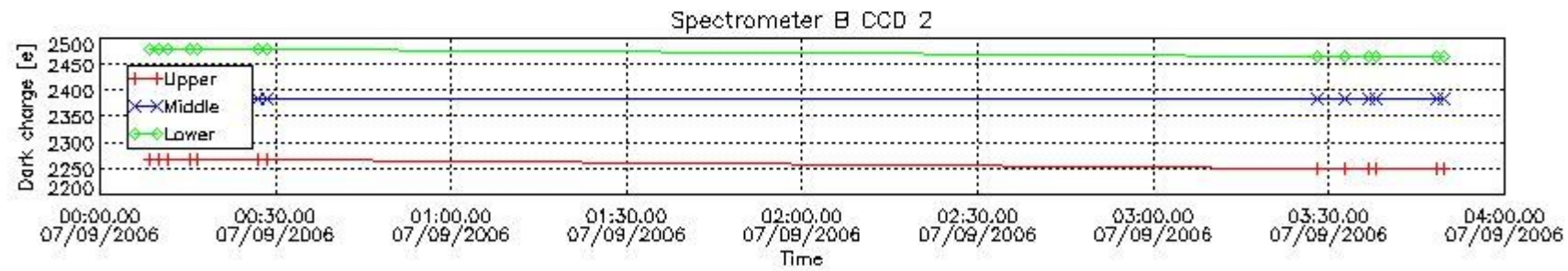
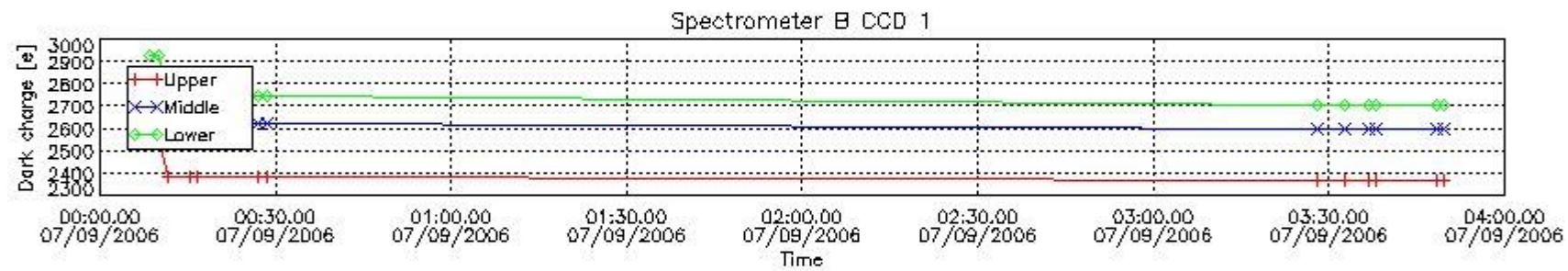
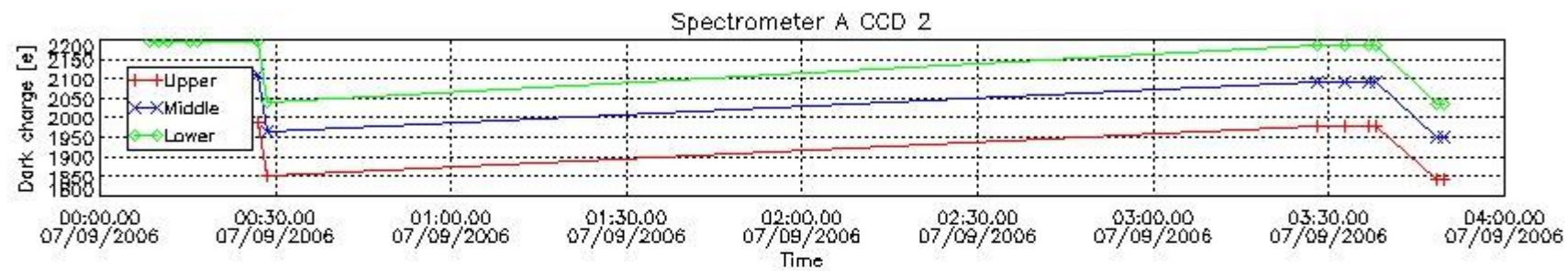
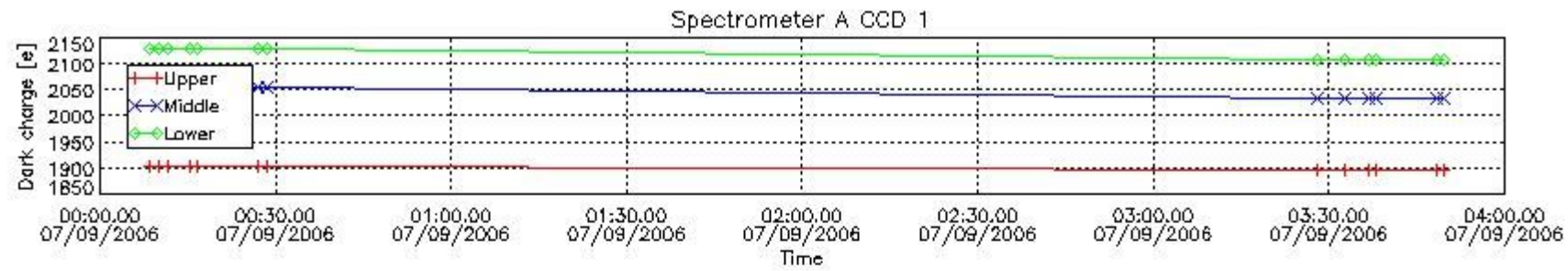
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





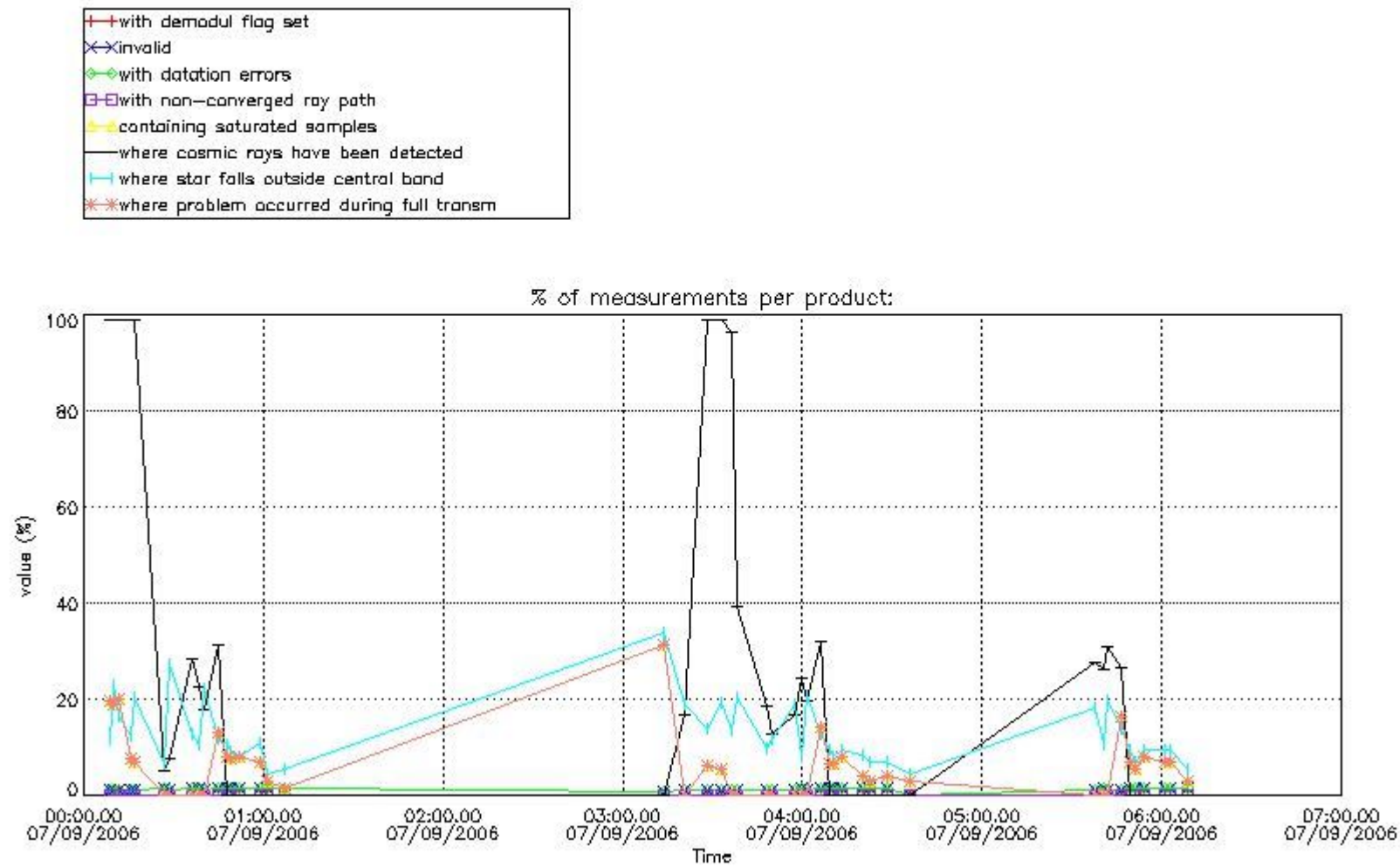
## 5. Demodulation flag and quality information monitoring

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:

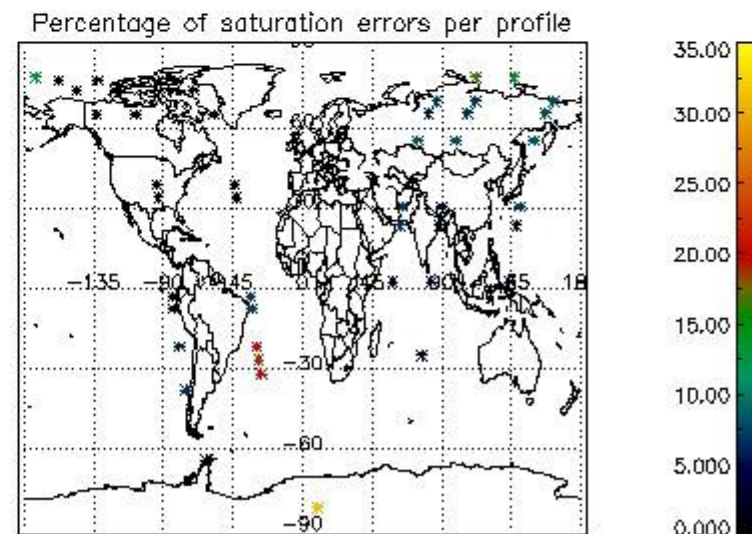
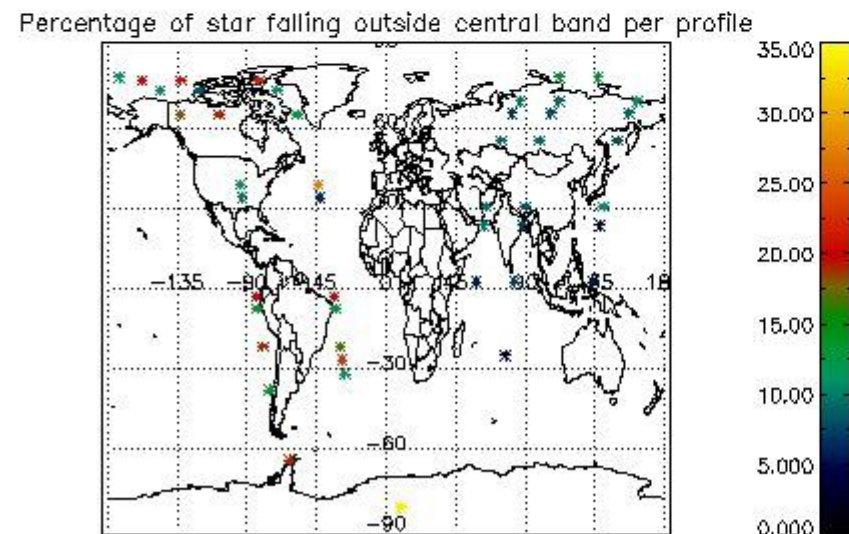
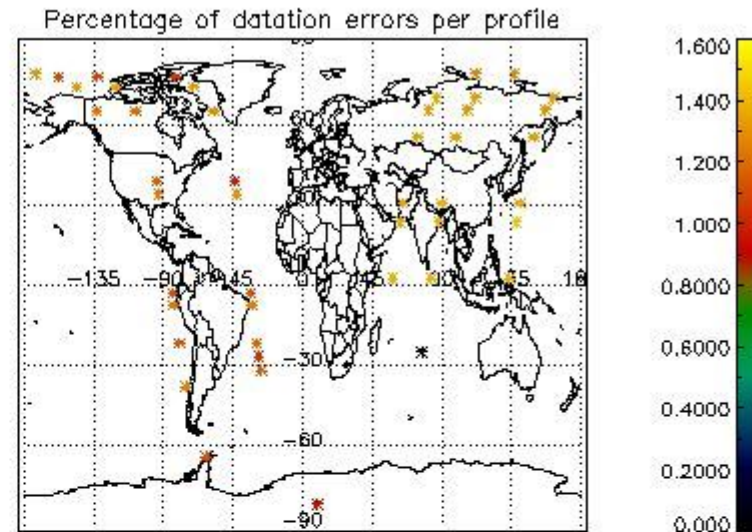
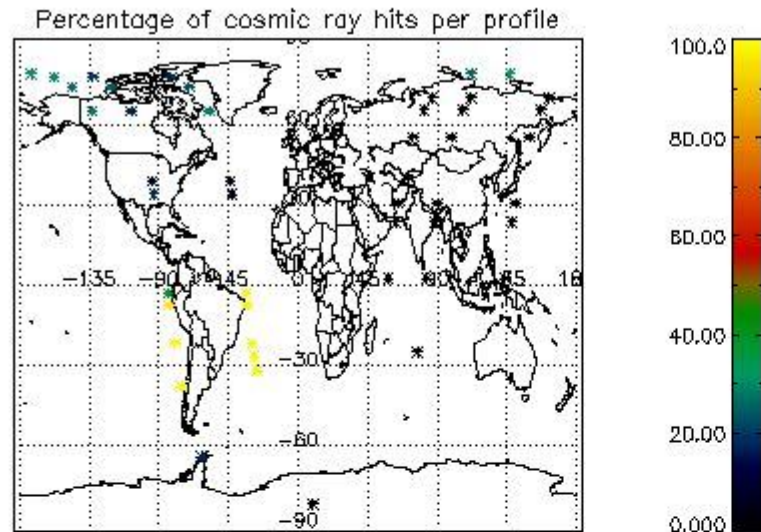
|                                                       |           |
|-------------------------------------------------------|-----------|
| At least one measurement with demodulation flag set:  | 21.7391 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum 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)





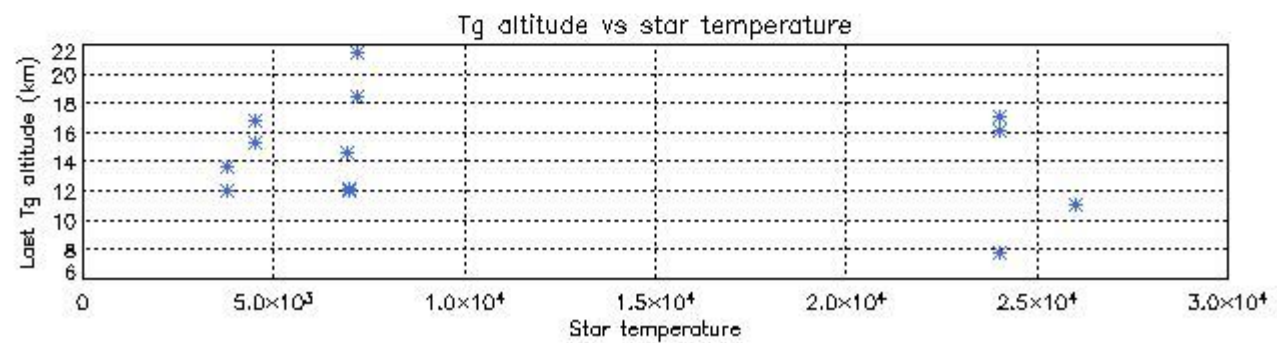
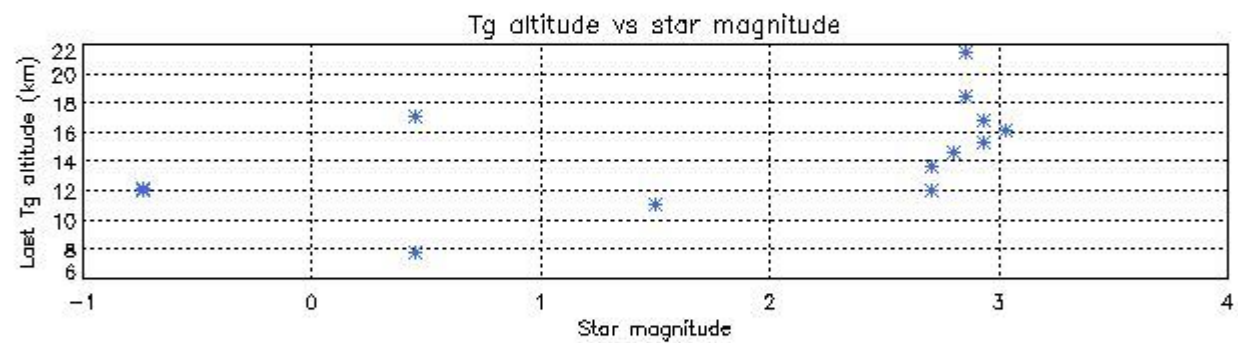
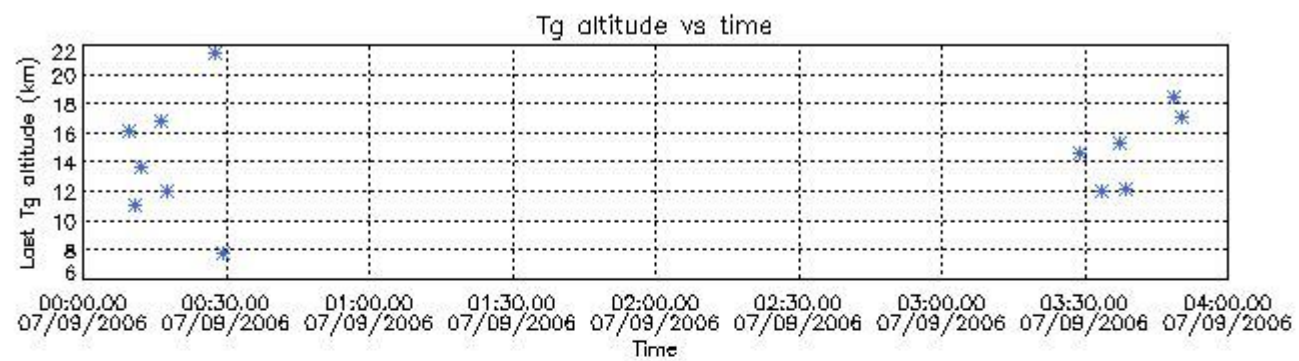
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 14.516 | 18.265 | 12.687   |
| St. deviation:  | 3.5814 | 3.5617 | 0.0000   |
| Maximum:        | 21.419 | 23.018 | 12.687   |
| Minimum:        | 7.8138 | 4.6243 | 12.687   |
| Number of data: | 13.000 | 23.000 | 1.0000   |

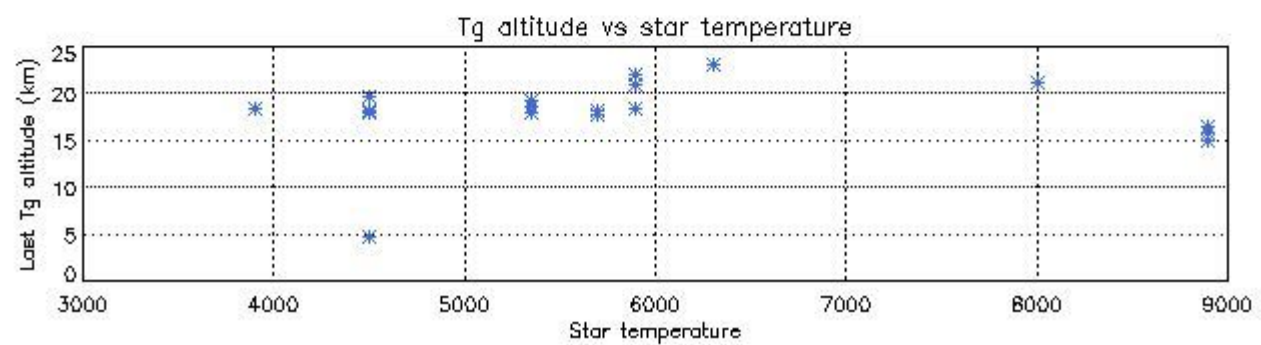
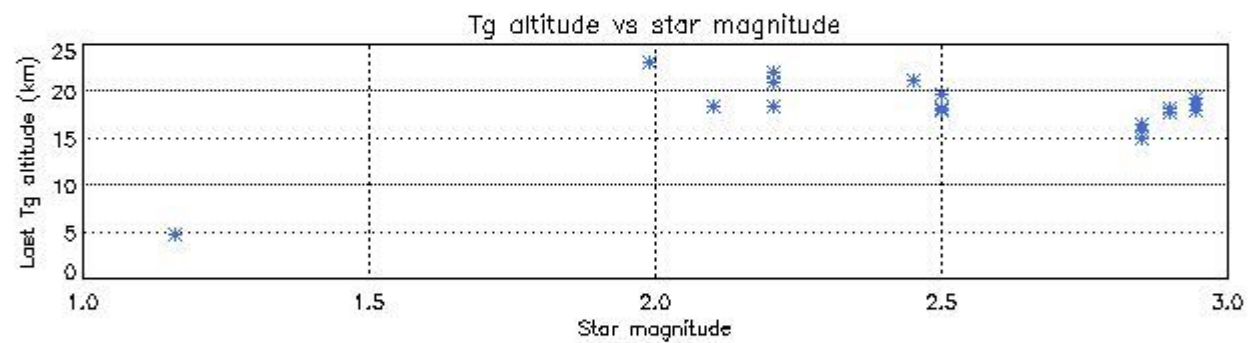
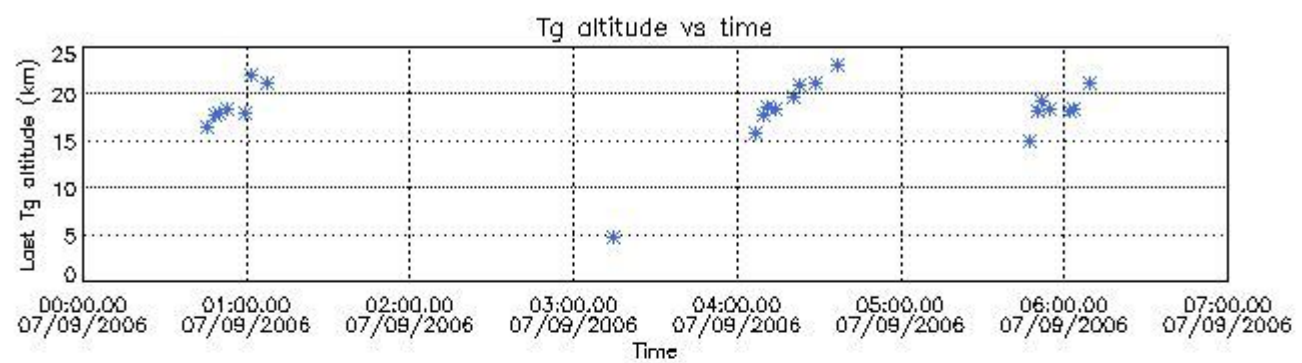
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

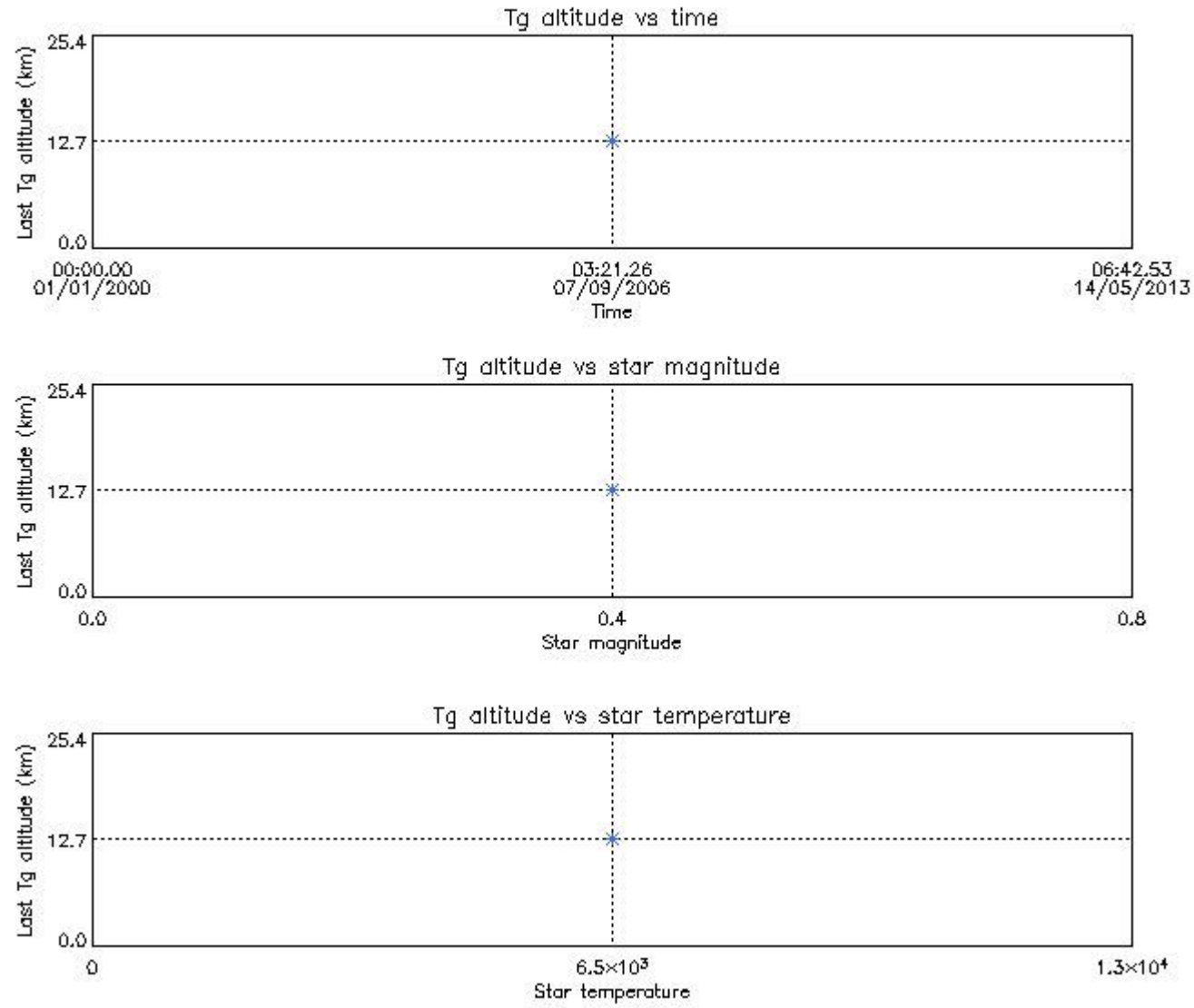
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

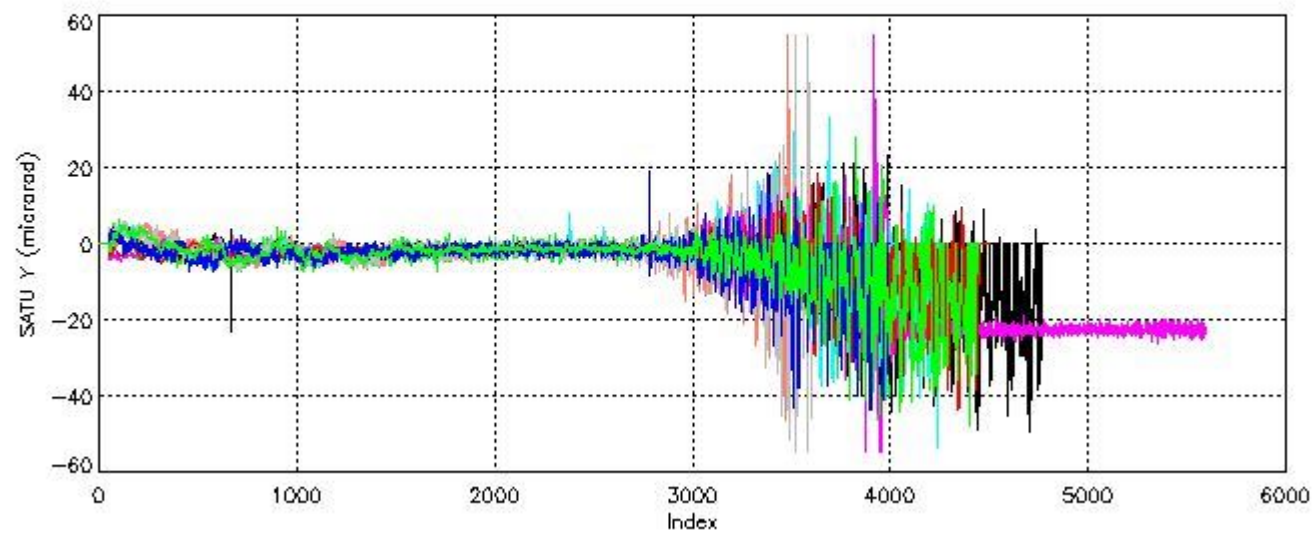
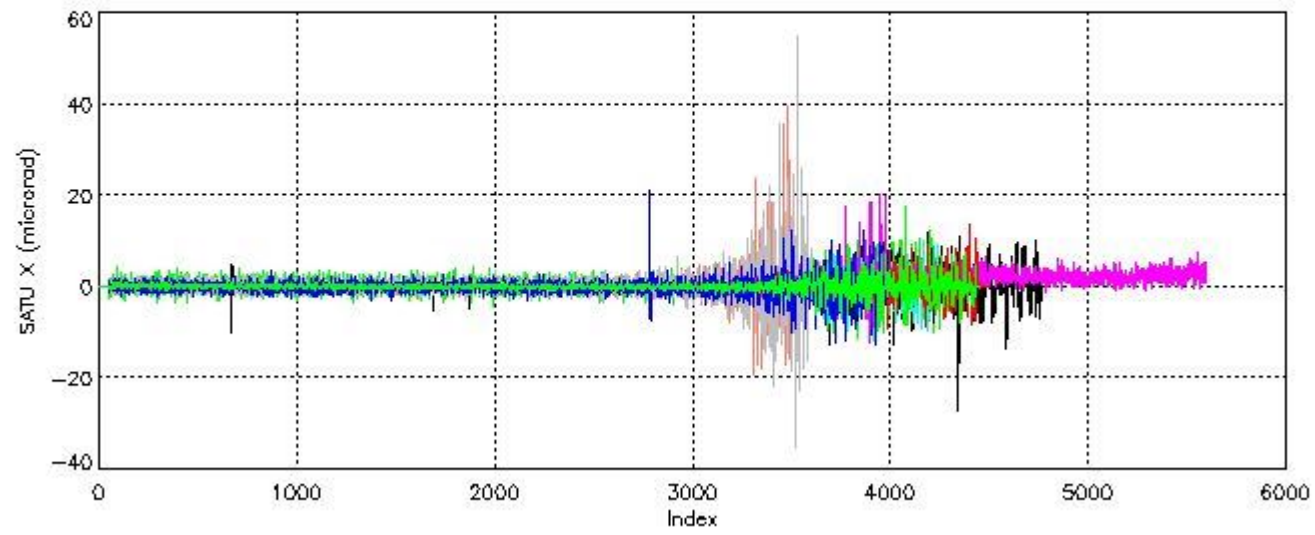


## 7. Star Acquisition and Tracking Unit (SATU)

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.

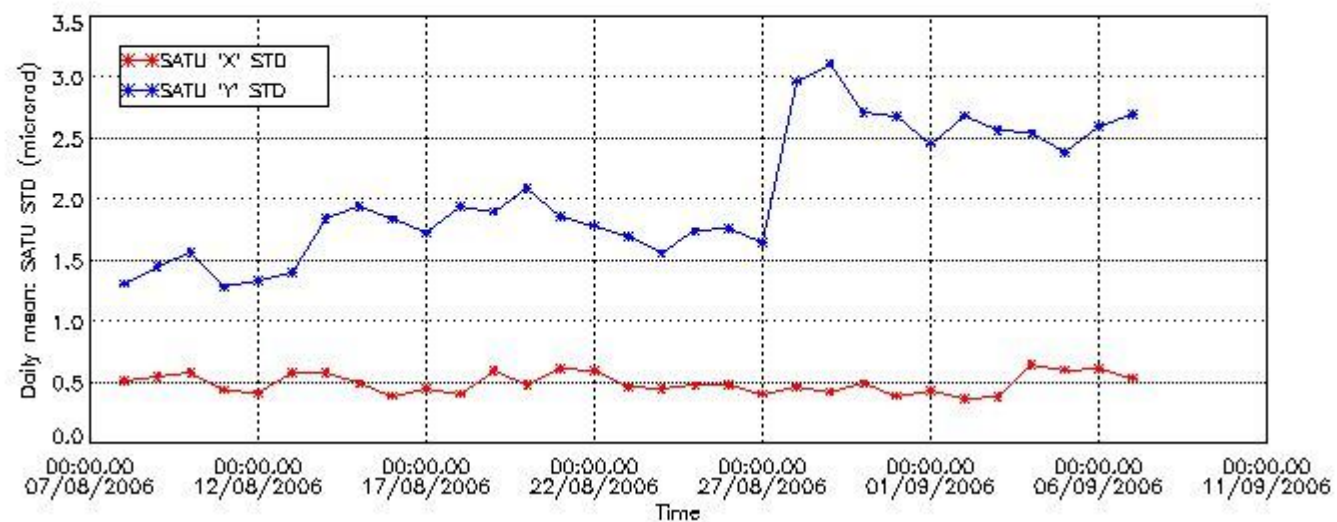
### 7.2.1 SATU NEA Statistics (table)

| Statistics     | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean:          | 0.12147    | -0.78335   | 0.090029   | -0.86136   |
| St. deviation: | 0.53230    | 2.6930     | 0.67343    | 2.8012     |
| Maximum:       | 4.6000     | 6.3000     | 3.3000     | 6.5000     |
| Minimum:       | -0.30000   | -7.4000    | -2.6000    | -6.6000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 12250. | 12250. | 19100. | 19100. |
|-----------------|--------|--------|--------|--------|

### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

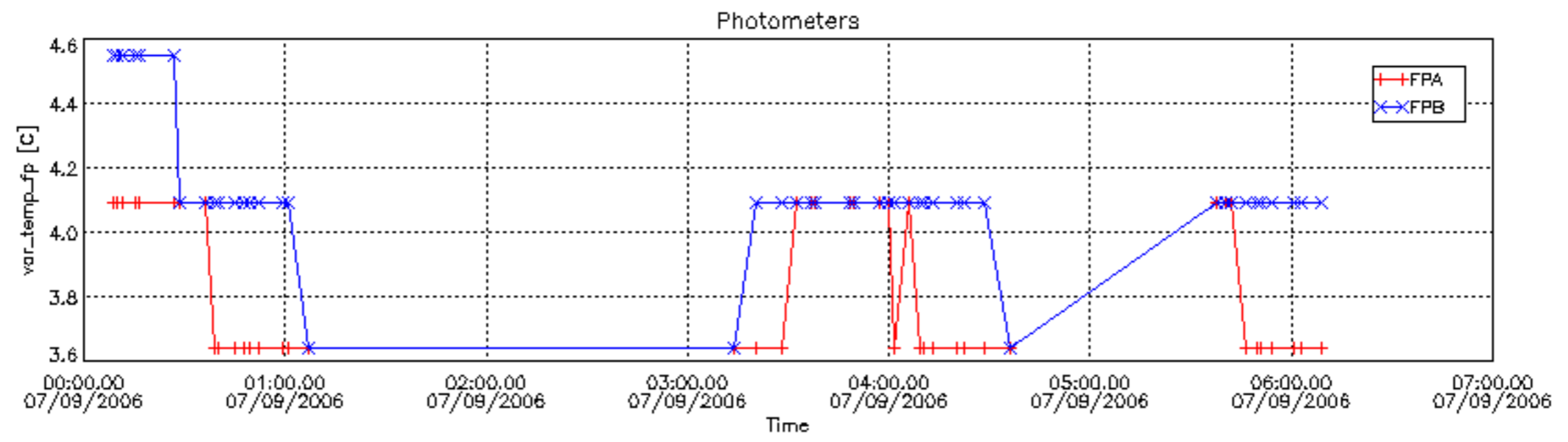
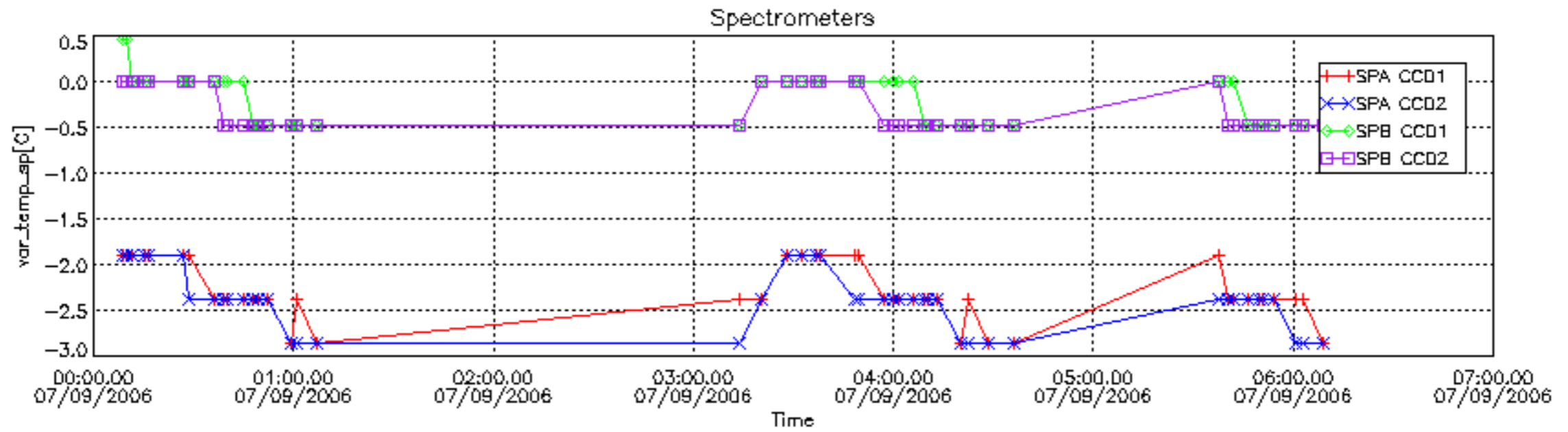
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



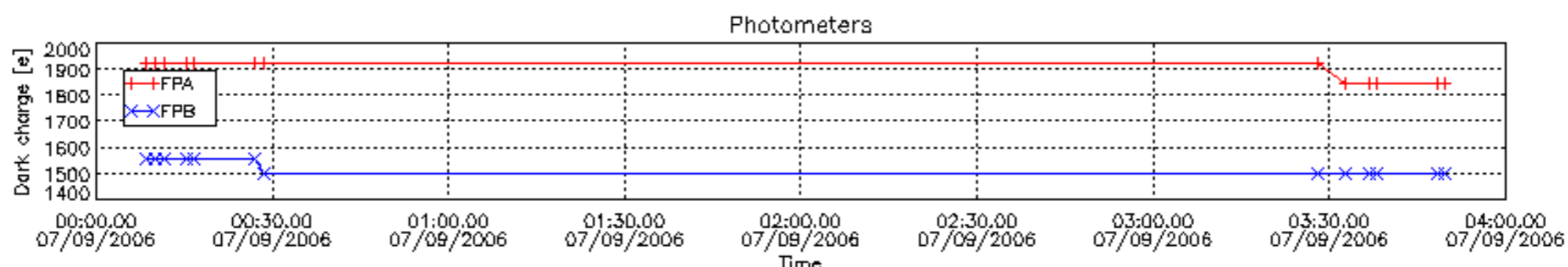
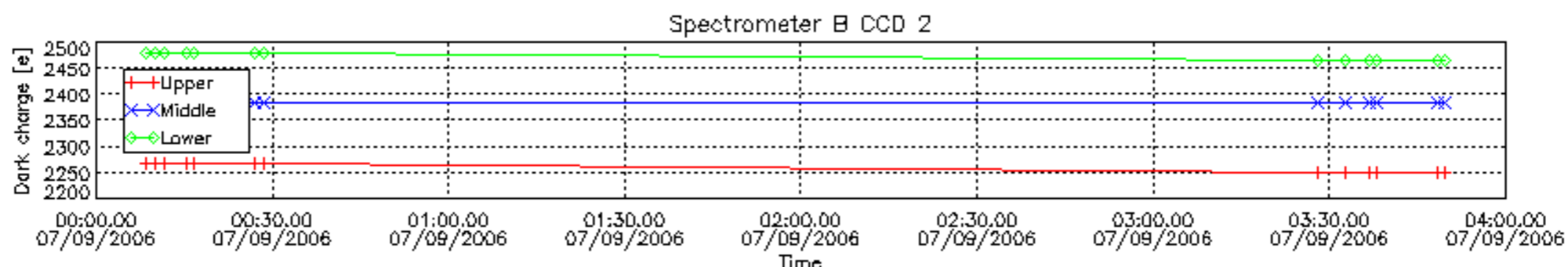
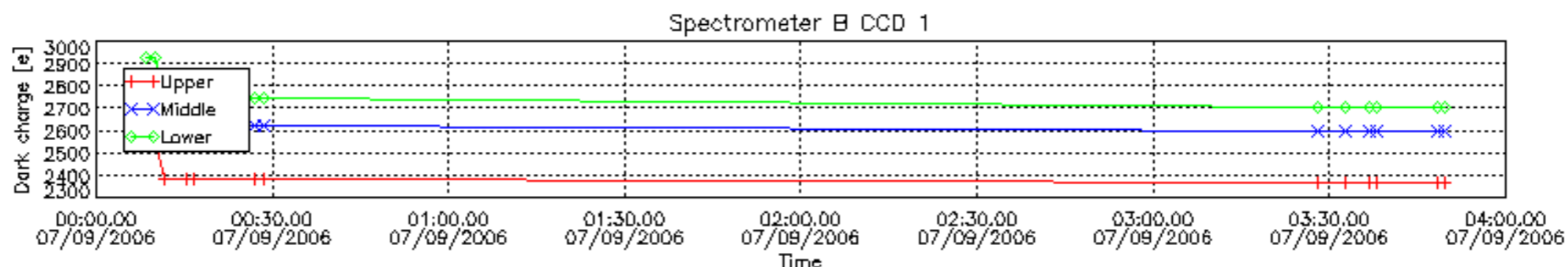
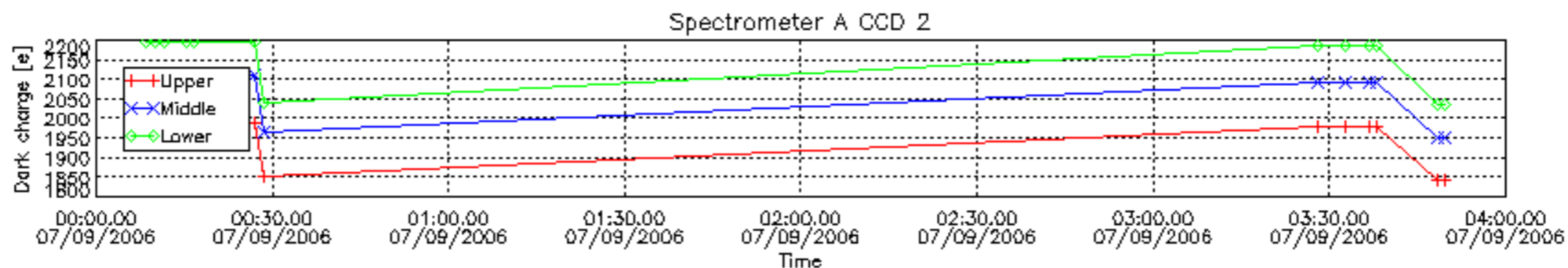
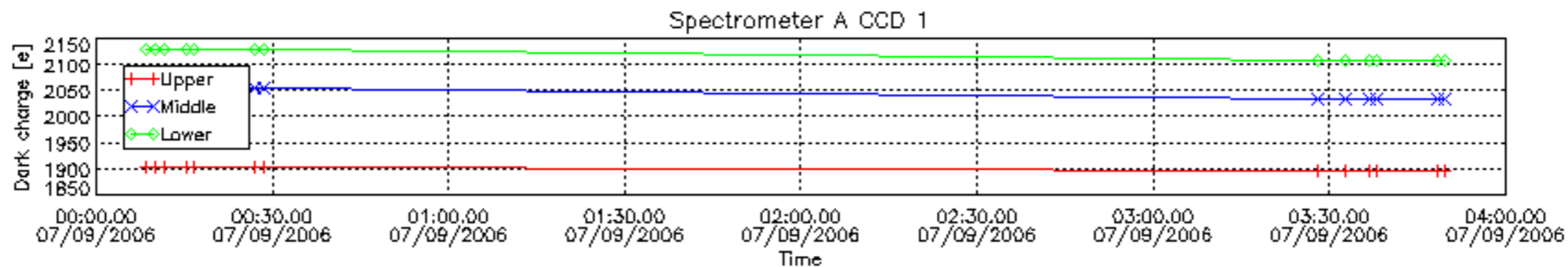
### 8. Auxiliary Data Files used for the production reported in section 2.2

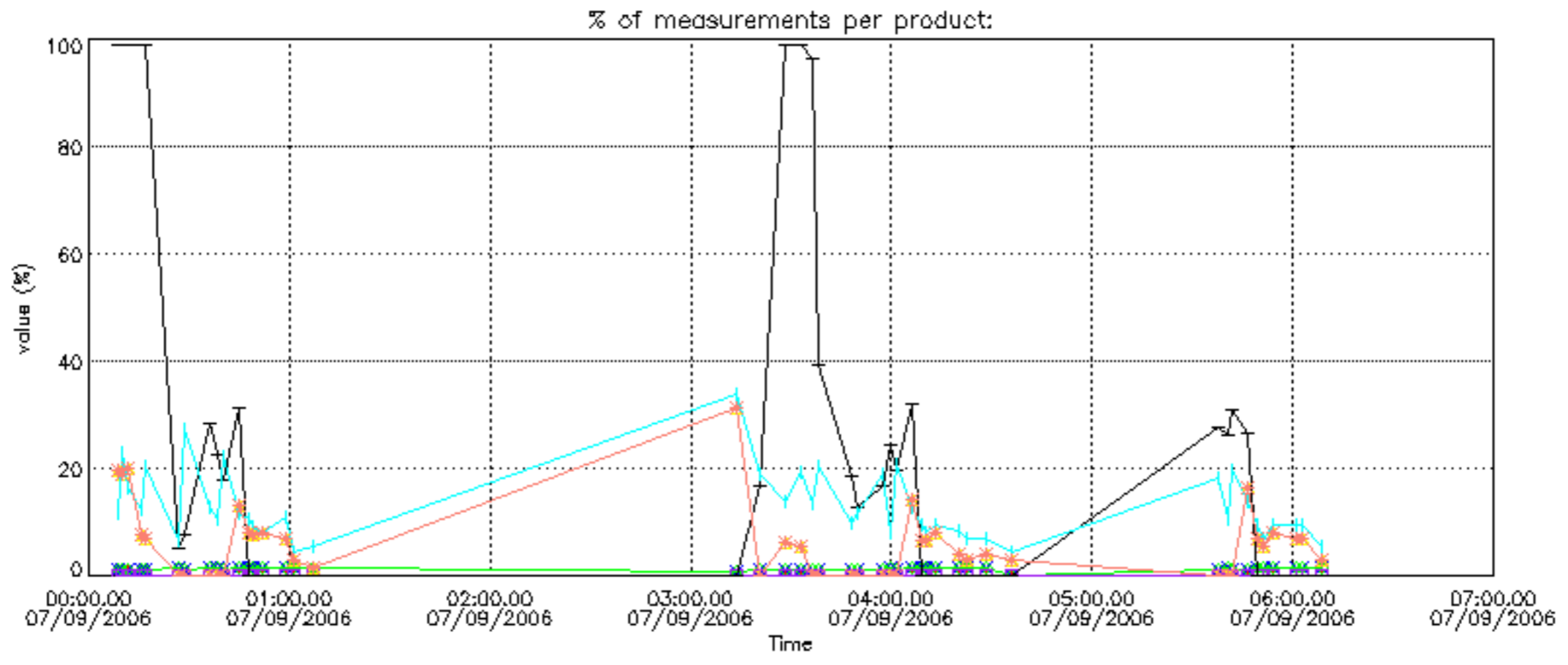
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename                                             | Used since product | Used since product date |
|---------------------------|----------------------------------------------------------------|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000  | 1                  | 07-SEP-2006 00:08:36    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000  | 1                  | 07-SEP-2006 00:08:36    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000  | 1                  | 07-SEP-2006 00:08:36    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 07-SEP-2006 00:08:36    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000  | 1                  | 07-SEP-2006 00:08:36    |
| ECMWF_FILE                | AUX_ECA_AXNECM20060907_060551_20060906_210000_20060907_090000  | 1                  | 07-SEP-2006 00:08:36    |
| ECMWF_FILE                | AUX_ECF_AXNECM20060906_063804_20060906_210000_20060907_090000  | 3                  | 07-SEP-2006 00:11:28    |
| ECMWF_FILE                | AUX_ECF_AXNECM20060907_044542_20060907_030000_20060907_150000  | 37                 | 07-SEP-2006 05:37:46    |
| OPTIONAL_ECMWF_FILE       | MISSING                                                        | 1                  | 07-SEP-2006 00:08:36    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060907_000426_000054192051_00030_23631_0508.N1 | 1                  | 07-SEP-2006 00:08:36    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060907_025427_000057382051_00032_23633_0510.N1 | 18                 | 07-SEP-2006 03:13:39    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060907_043524_000057382051_00033_23634_0511.N1 | 37                 | 07-SEP-2006 05:37:46    |

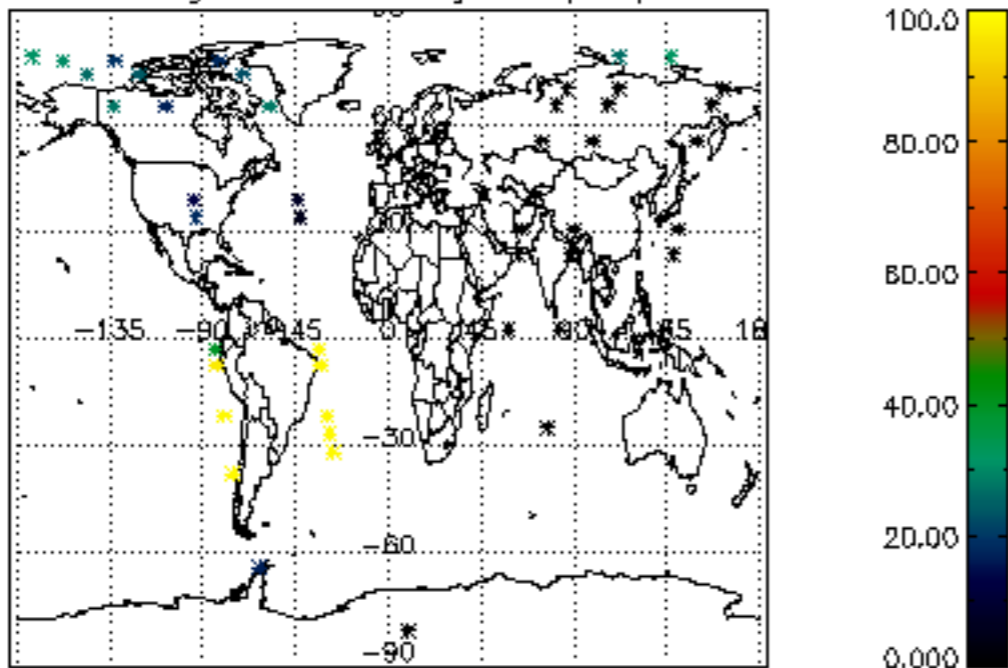




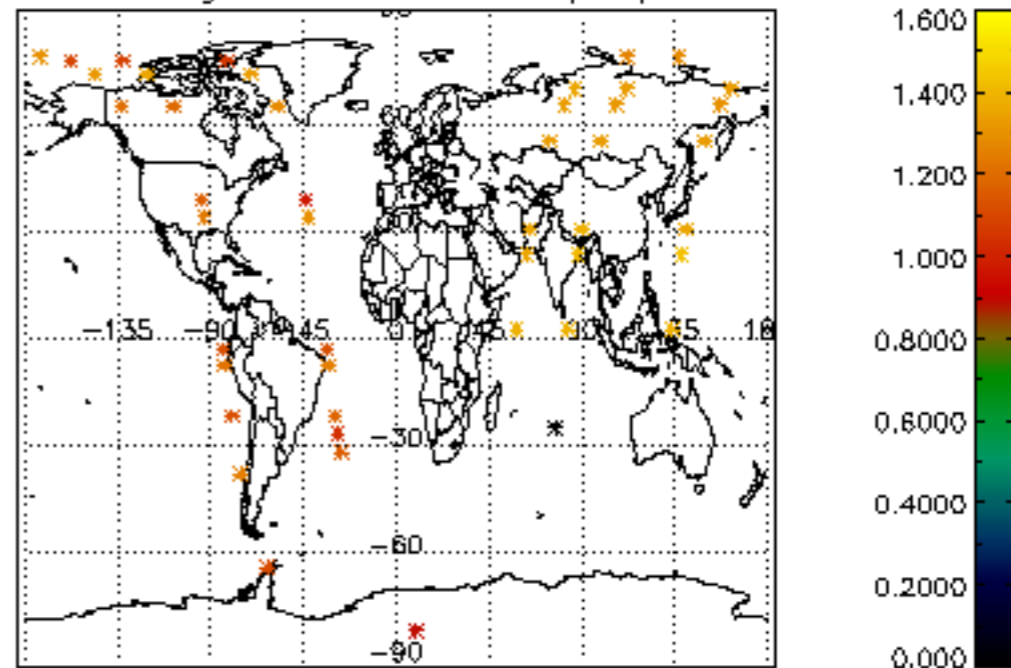




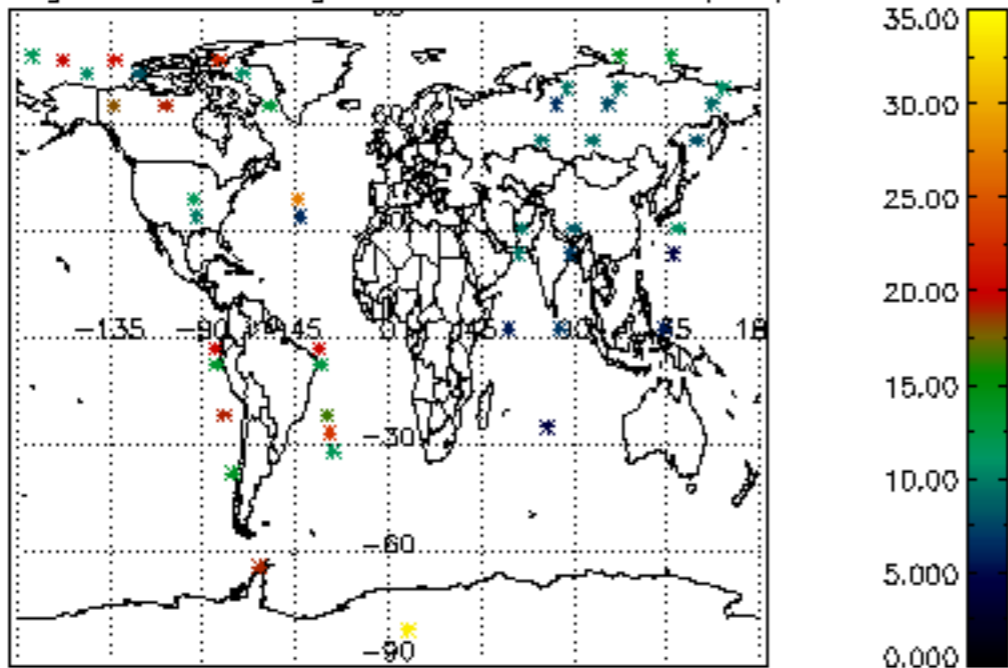
Percentage of cosmic ray hits per profile



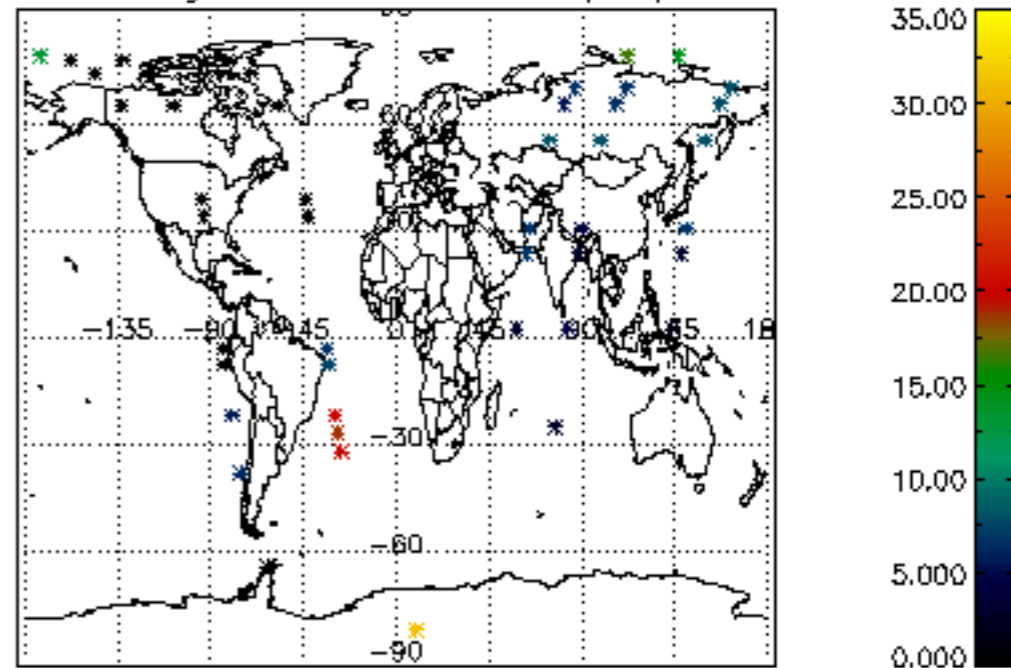
Percentage of datation errors per profile



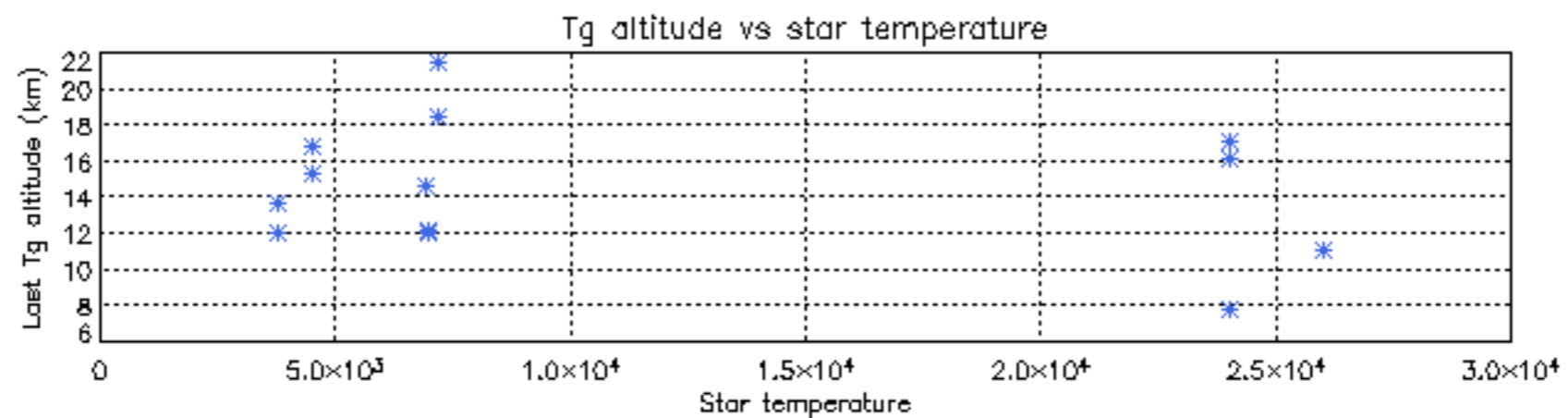
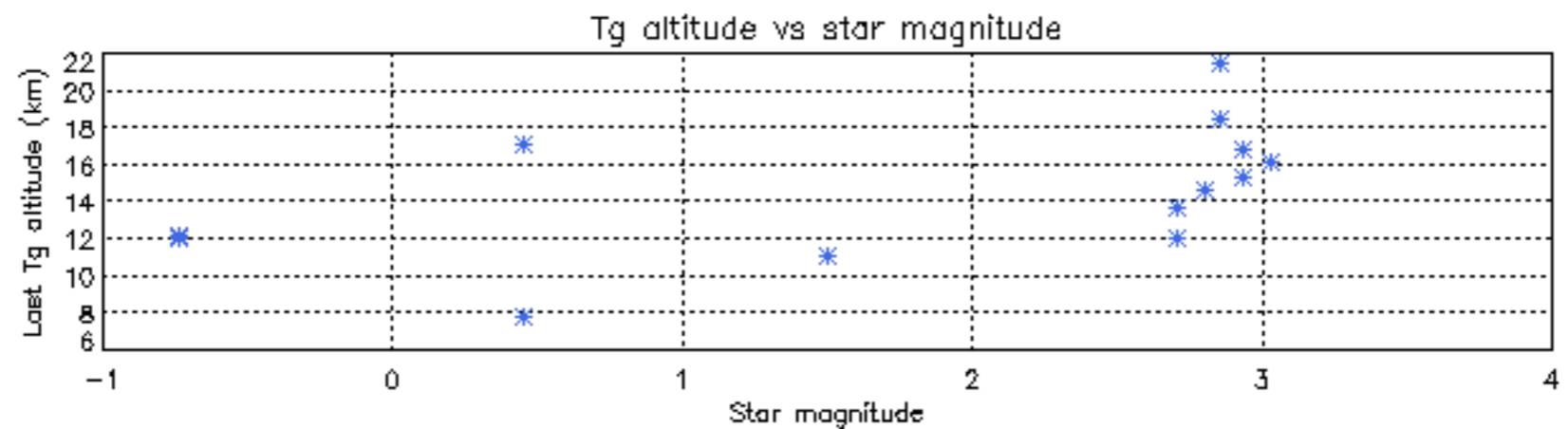
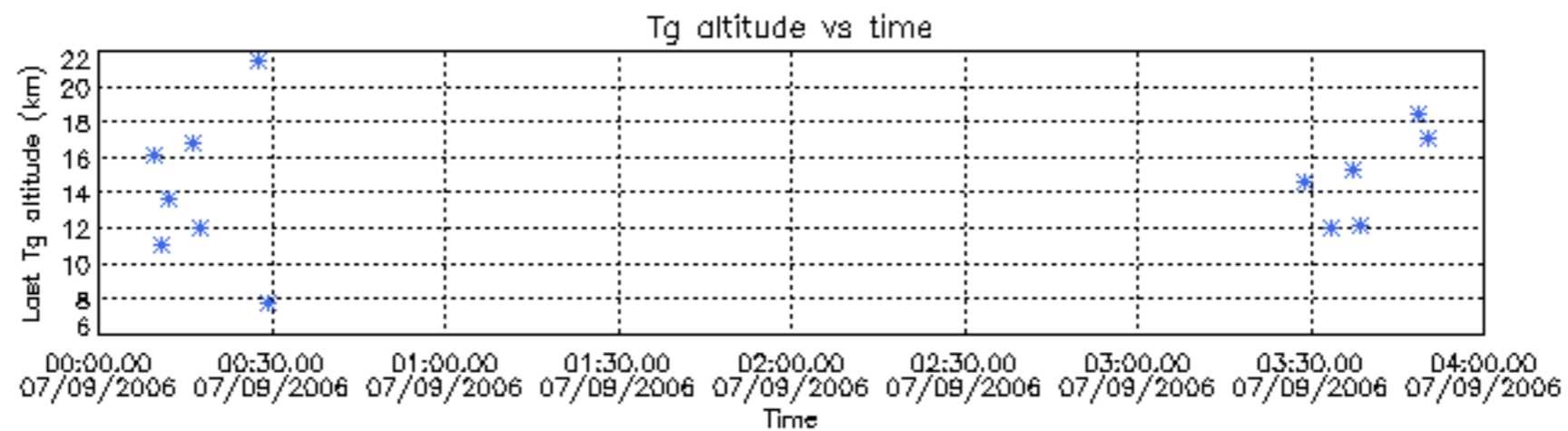
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

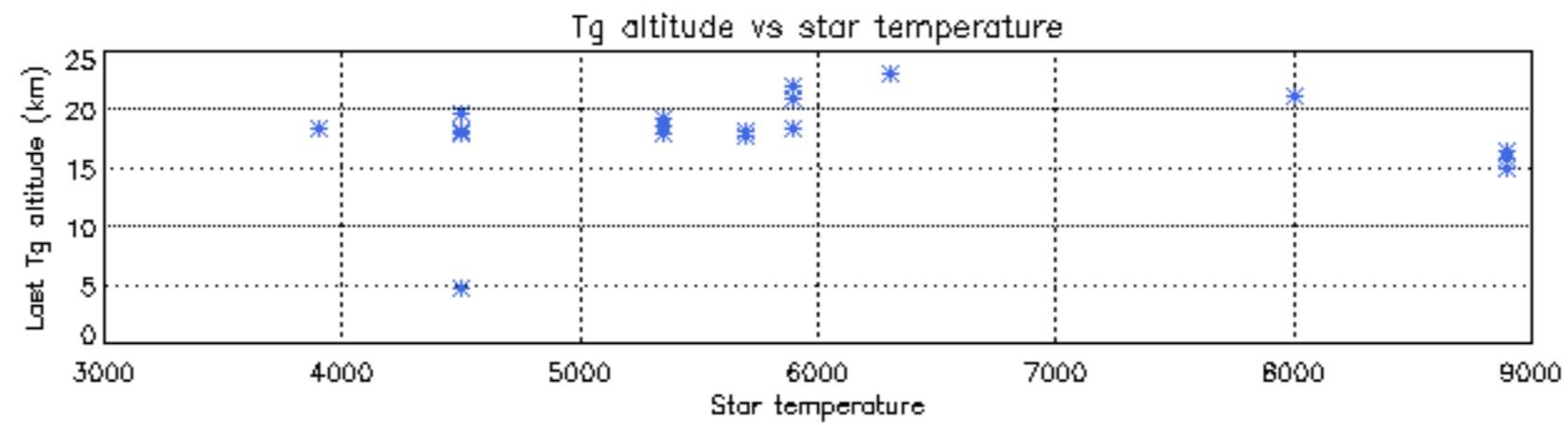
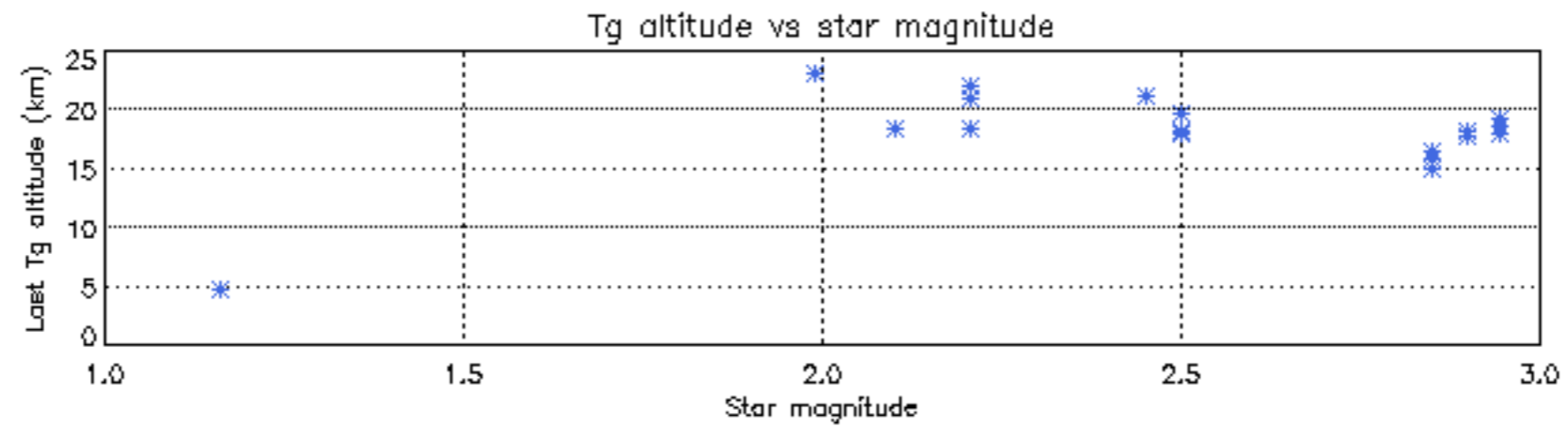
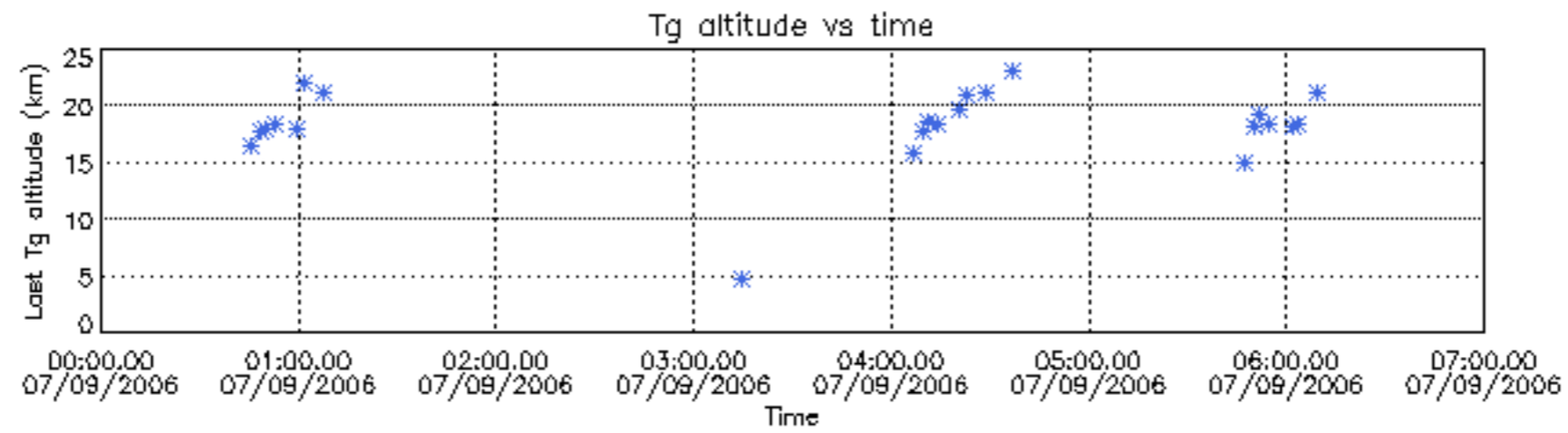


Tangent altitude at which the star is lost

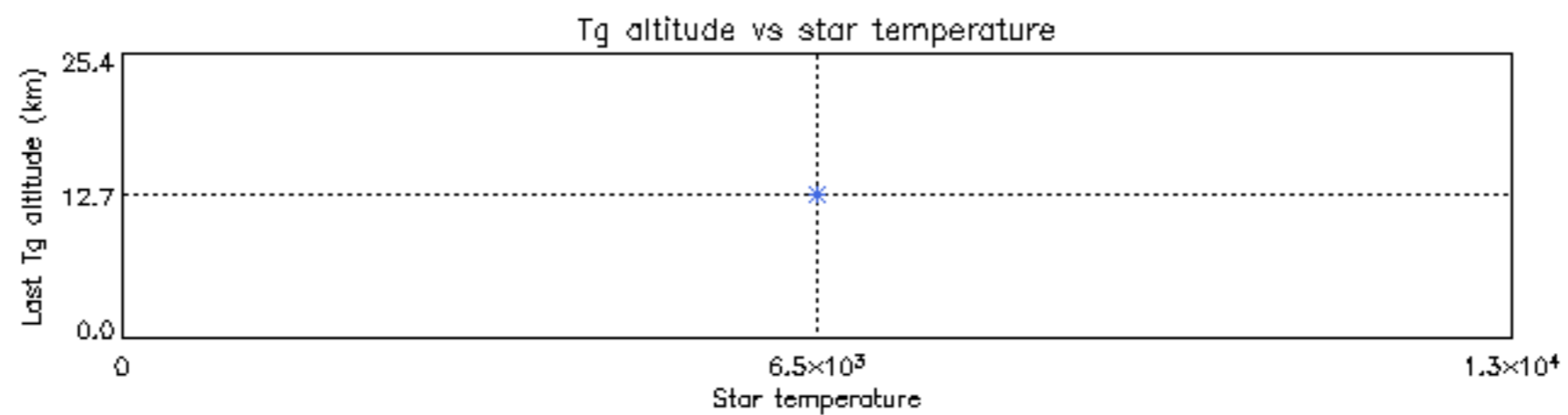
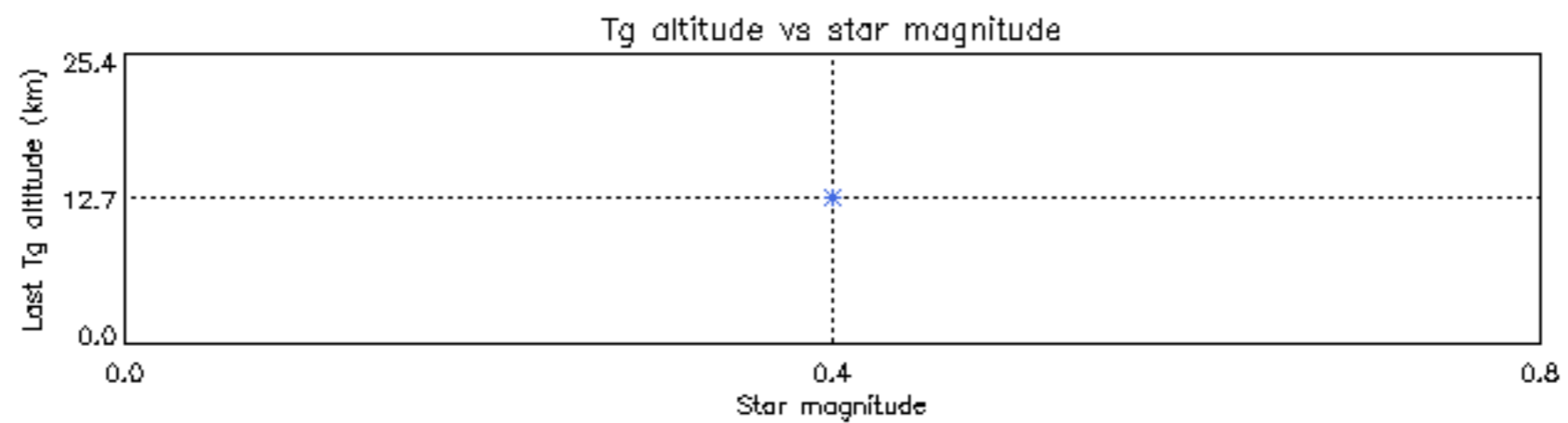
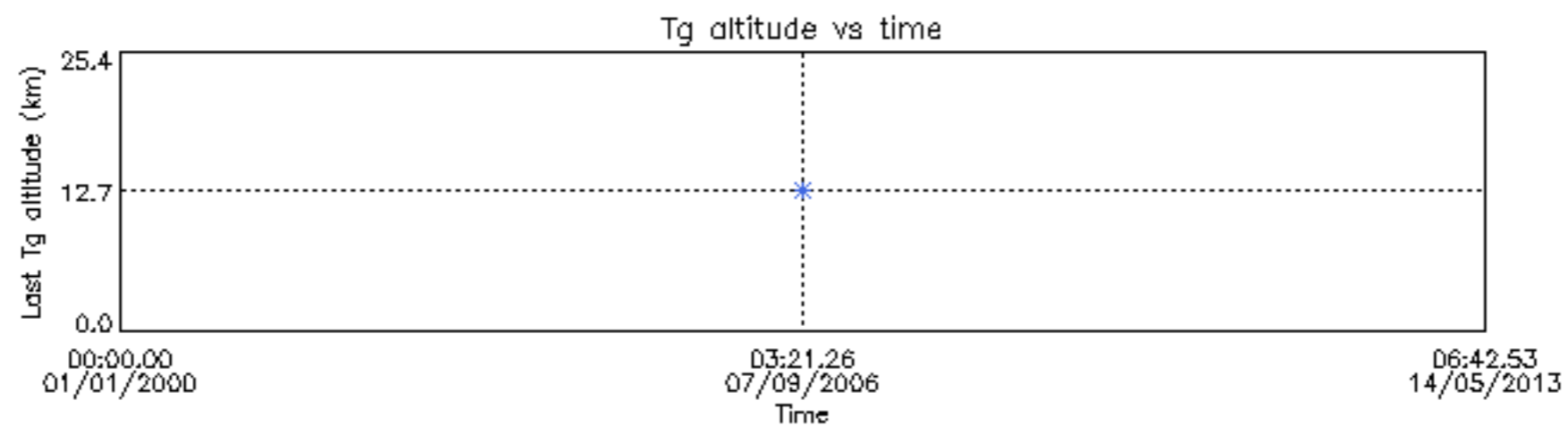


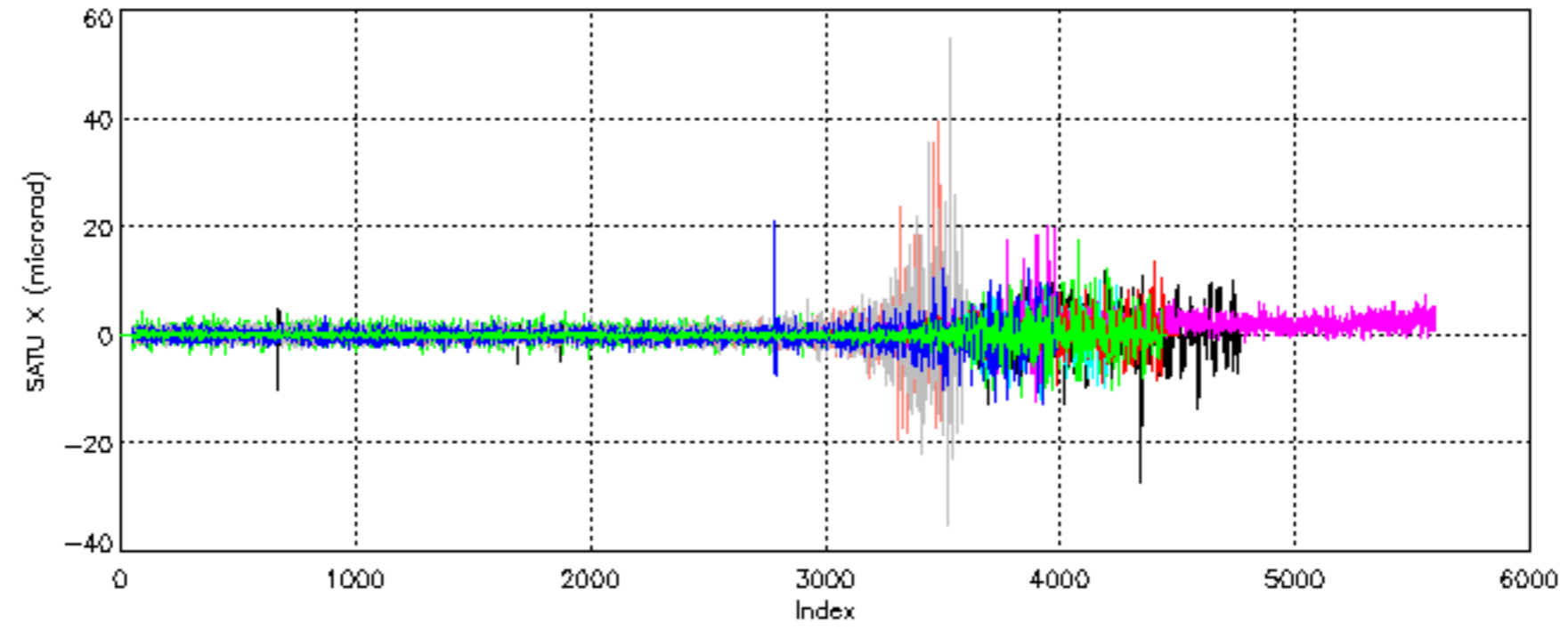


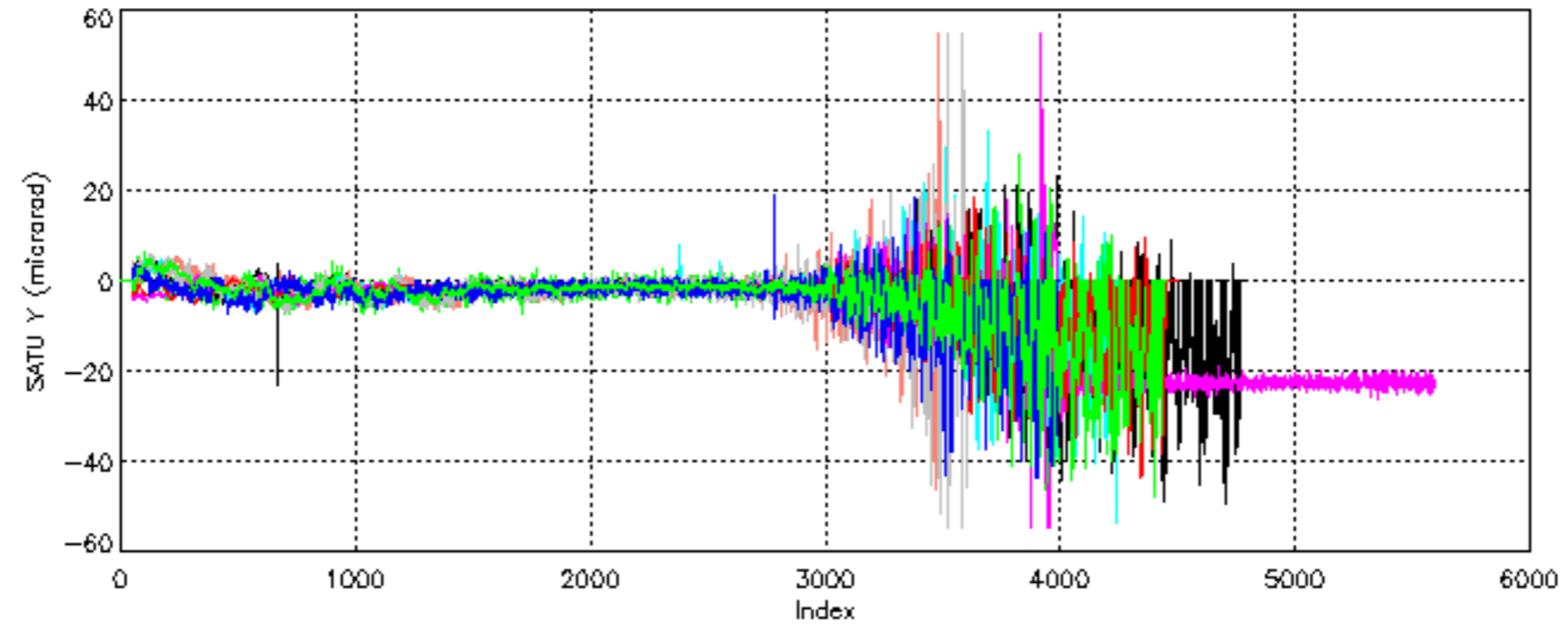
Tangent altitude at which the star is lost



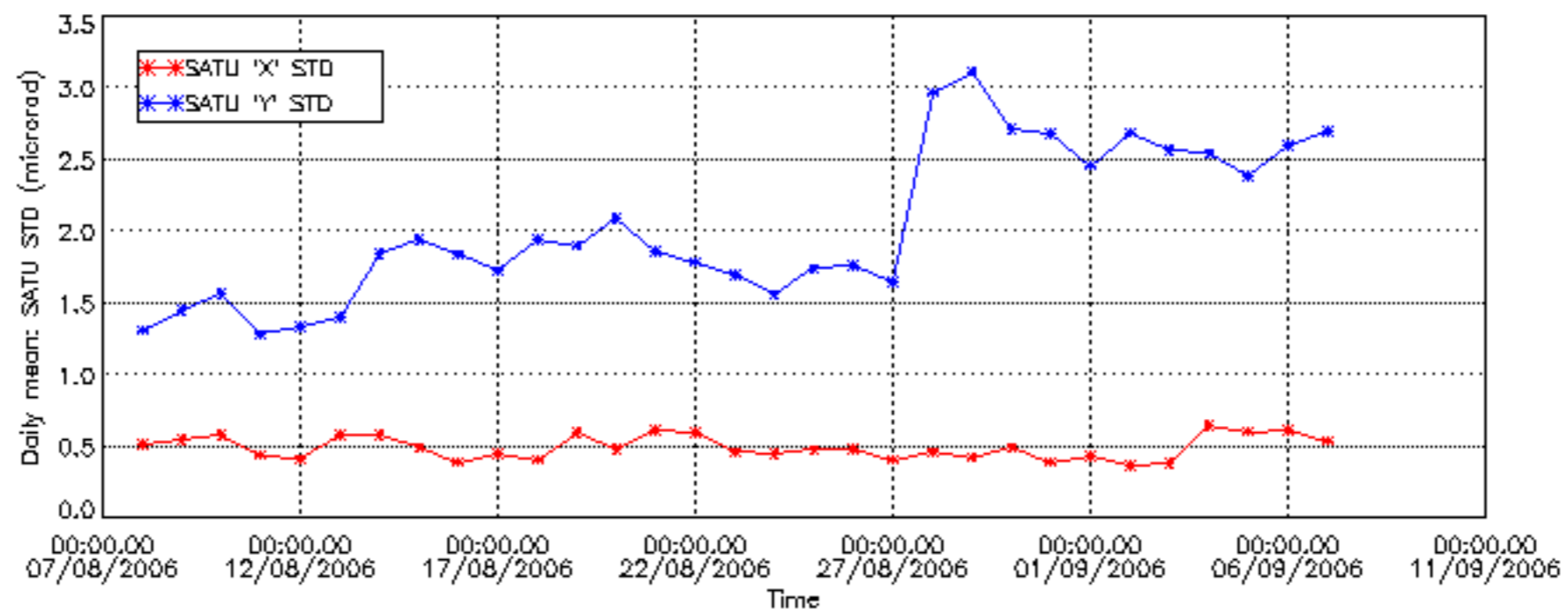
Tangent altitude at which the star is lost











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 3; -402.4; 01-SEP-2006 01:39:59; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;23546  
 4; -278.6; 01-SEP-2006 01:42:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23546  
 5; -92.4; 01-SEP-2006 01:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;23546  
 6; 526.4; 01-SEP-2006 01:55:28; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23547  
 7; 603.1; 01-SEP-2006 01:56:44; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;23547  
 8; 1084.0; 01-SEP-2006 02:04:45; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;23547  
 9; 1328.9; 01-SEP-2006 02:08:50; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;23547  
 10; 1619.0; 01-SEP-2006 02:13:40; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 0;23547  
 11; 1807.1; 01-SEP-2006 02:16:48; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23547  
 12; 1895.4; 01-SEP-2006 02:18:17; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23547  
 13; 2075.6; 01-SEP-2006 02:21:17; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23547  
 14; 2487.4; 01-SEP-2006 02:28:09; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;23547  
 15; 2600.2; 01-SEP-2006 02:30:01; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;23547  
 16; 2678.1; 01-SEP-2006 02:31:19; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;23547  
 17; 2975.7; 01-SEP-2006 02:36:17; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23547  
 18; 3434.5; 01-SEP-2006 02:43:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;23547

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1; -1583.2; 01-SEP-2006 03:00:53; Bright; 51.0; 24; 66Alp Gem ; 1.58; 10200;occ; 102; 0;23547  
 2; -1121.0; 01-SEP-2006 03:08:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;23547  
 3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547  
 4; -496.7; 01-SEP-2006 03:19:00; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;23547  
 5; -401.6; 01-SEP-2006 03:20:35; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;23547  
 6; -277.9; 01-SEP-2006 03:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23547  
 7; -91.4; 01-SEP-2006 03:25:45; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;23547  
 8; 527.5; 01-SEP-2006 03:36:04; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23548  
 9; 604.2; 01-SEP-2006 03:37:21; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;23548  
 10; 1084.9; 01-SEP-2006 03:45:22; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;23548  
 11; 1329.7; 01-SEP-2006 03:49:26; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;23548  
 12; 1619.6; 01-SEP-2006 03:54:16; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23548  
 13; 1807.8; 01-SEP-2006 03:57:24; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23548  
 14; 1896.0; 01-SEP-2006 03:58:53; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23548  
 15; 2075.9; 01-SEP-2006 04:01:53; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;23548  
 16; 2488.1; 01-SEP-2006 04:08:45; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;23548  
 17; 2600.9; 01-SEP-2006 04:10:38; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;23548  
 18; 2678.7; 01-SEP-2006 04:11:55; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23548  
 19; 2976.1; 01-SEP-2006 04:16:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23548  
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1; -1583.0; 01-SEP-2006 04:41:30; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23548  
 2; -1120.7; 01-SEP-2006 04:49:12; Dark ; 43.0; 8; 10Alp CMi ; 0.40; 6500;occ; 86; 0;23548  
 3; -661.6; 01-SEP-2006 04:56:51; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;23548  
 4; -496.1; 01-SEP-2006 04:59:37; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;23548  
 5; -401.2; 01-SEP-2006 05:01:11; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;23548  
 6; -277.5; 01-SEP-2006 05:03:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23548  
 7; -91.0; 01-SEP-2006 05:06:22; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;23548  
 8; 527.8; 01-SEP-2006 05:16:40; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23549  
 9; 604.8; 01-SEP-2006 05:17:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23549  
 10; 1085.1; 01-SEP-2006 05:25:58; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23549  
 11; 1329.9; 01-SEP-2006 05:30:03; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;23549  
 12; 1619.7; 01-SEP-2006 05:34:52; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23549  
 13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549  
 14; 1896.0; 01-SEP-2006 05:39:29; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23549  
 15; 2075.9; 01-SEP-2006 05:42:29; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;23549  
 16; 2488.2; 01-SEP-2006 05:49:21; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;23549  
 17; 2601.0; 01-SEP-2006 05:51:14; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;23549  
 18; 2678.7; 01-SEP-2006 05:52:31; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23549  
 19; 2976.1; 01-SEP-2006 05:57:29; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;23549  
 20; 3435.1; 01-SEP-2006 06:05:08; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;23549

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1; -4948.2; 01-SEP-2006 20:31:24; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 1;23558  
 2; -4703.5; 01-SEP-2006 20:35:28; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;23558  
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 4; -4227.1; 01-SEP-2006 20:43:25; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23558  
 5; -4140.1; 01-SEP-2006 20:44:52; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;23558  
 6; -3960.3; 01-SEP-2006 20:47:52; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23558

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7;-3547.2; 01-SEP-2006 20:54:45; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;23558
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9;-3060.6; 01-SEP-2006 21:02:51; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23558
10;-2601.0; 01-SEP-2006 21:10:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;23558
11;-1581.5; 01-SEP-2006 21:27:30; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23558
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2; -490.9; 01-SEP-2006 21:45:41; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23558
3; -397.2; 01-SEP-2006 21:47:15; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;23558
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6; 533.4; 01-SEP-2006 22:02:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23559
7; 610.8; 01-SEP-2006 22:04:03; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;23559
8; 1087.5; 01-SEP-2006 22:11:59; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;23559
9; 1332.6; 01-SEP-2006 22:16:04; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;23559
10; 1621.1; 01-SEP-2006 22:20:53; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;23559
11; 1808.8; 01-SEP-2006 22:24:01; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;23559
12; 1895.7; 01-SEP-2006 22:25:28; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23559
13; 2075.5; 01-SEP-2006 22:28:27; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23559
14; 2488.8; 01-SEP-2006 22:35:21; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;23559
15; 2679.1; 01-SEP-2006 22:38:31; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;23559
16; 2975.1; 01-SEP-2006 22:43:27; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23559
17; 3434.8; 01-SEP-2006 22:51:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;23559
18; 4454.3; 01-SEP-2006 23:08:06; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;23559
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3; -396.8; 01-SEP-2006 23:27:51; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;23559
4; -273.6; 01-SEP-2006 23:29:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23559
5; -86.1; 01-SEP-2006 23:33:02; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;23559
6; 533.8; 01-SEP-2006 23:43:22; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23560
7; 611.4; 01-SEP-2006 23:44:39; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23560
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 6; 677.7; 22-SEP-2006 00:57:36; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23847  
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2;-4625.7; 26-SEP-2006 17:29:56; Dark ; 38.5; 18; 24Alp PsA ; 1.17; 9700;occ; 77; 0;23914
3;-4105.9; 26-SEP-2006 17:38:36; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;23914
4;-3868.9; 26-SEP-2006 17:42:33; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;23914
5;-3647.2; 26-SEP-2006 17:46:15; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;23914
6;-3047.1; 26-SEP-2006 17:56:15; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;23914
7;-2606.0; 26-SEP-2006 18:03:36; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;23914
8;-2501.9; 26-SEP-2006 18:05:20; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;23914
9;-2138.1; 26-SEP-2006 18:11:24; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;23914
10;-2048.8; 26-SEP-2006 18:12:53; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;23914
11;-1858.6; 26-SEP-2006 18:16:04; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;23914
12;-1460.0; 26-SEP-2006 18:22:42; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;23914

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|     |         |             |           |      |   |       |      |           |   |       |            |      |         |
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| 13; | -896.9; | 26-SEP-2006 | 18:32:05; | Dark | ; | 45.5; | 48;  | 30Alp Hya | ; | 1.98; | 4100;occ;  | 91;  | 0;23914 |
| 14; | -315.6; | 26-SEP-2006 | 18:41:47; | Dark | ; | 44.0; | 65;  | Lam Vel   | ; | 2.20; | 4400;occ;  | 88;  | 0;23914 |
| 15; | -227.2; | 26-SEP-2006 | 18:43:15; | Dark | ; | 59.5; | 0;   |           | ; | 0.00; | 0;occ;     | 119; | 0;23914 |
| 16; | -117.2; | 26-SEP-2006 | 18:45:05; | Dark | ; | 37.0; | 46;  | Del Vel   | ; | 1.95; | 10600;occ; | 74;  | 0;23914 |
| 17; | -22.4;  | 26-SEP-2006 | 18:46:40; | Dark | ; | 44.0; | 41;  | Eps Car   | ; | 1.86; | 4100;occ;  | 88;  | 0;23914 |
| 18; | 707.2;  | 26-SEP-2006 | 18:58:49; | Dark | ; | 38.0; | 143; | Alp Hyi   | ; | 2.86; | 7200;occ;  | 76;  | 0;23915 |
| 19; | 794.6;  | 26-SEP-2006 | 19:00:17; | Dark | ; | 39.0; | 9;   | Alp Eri   | ; | 0.45; | 24000;occ; | 78;  | 0;23915 |