

# GOMOS Daily Report 26-JUL-2005

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 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 | 27JUL2005 05:10:24 |

|                         |  |
|-------------------------|--|
| Data source version     | GOMOS/4.02                                 |
| Start time of products  | QDS_YESTERDAY(/START) (26JUL2005 00:00:00) |
| Stop time of products   | QDS_YESTERDAY(/STOP) (27JUL2005 00:00:00)  |
| Store outputs in DB     | Yes  |
| Nb of level 1b prods    | 48   |
| Nb of prods with errors | 0  |

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

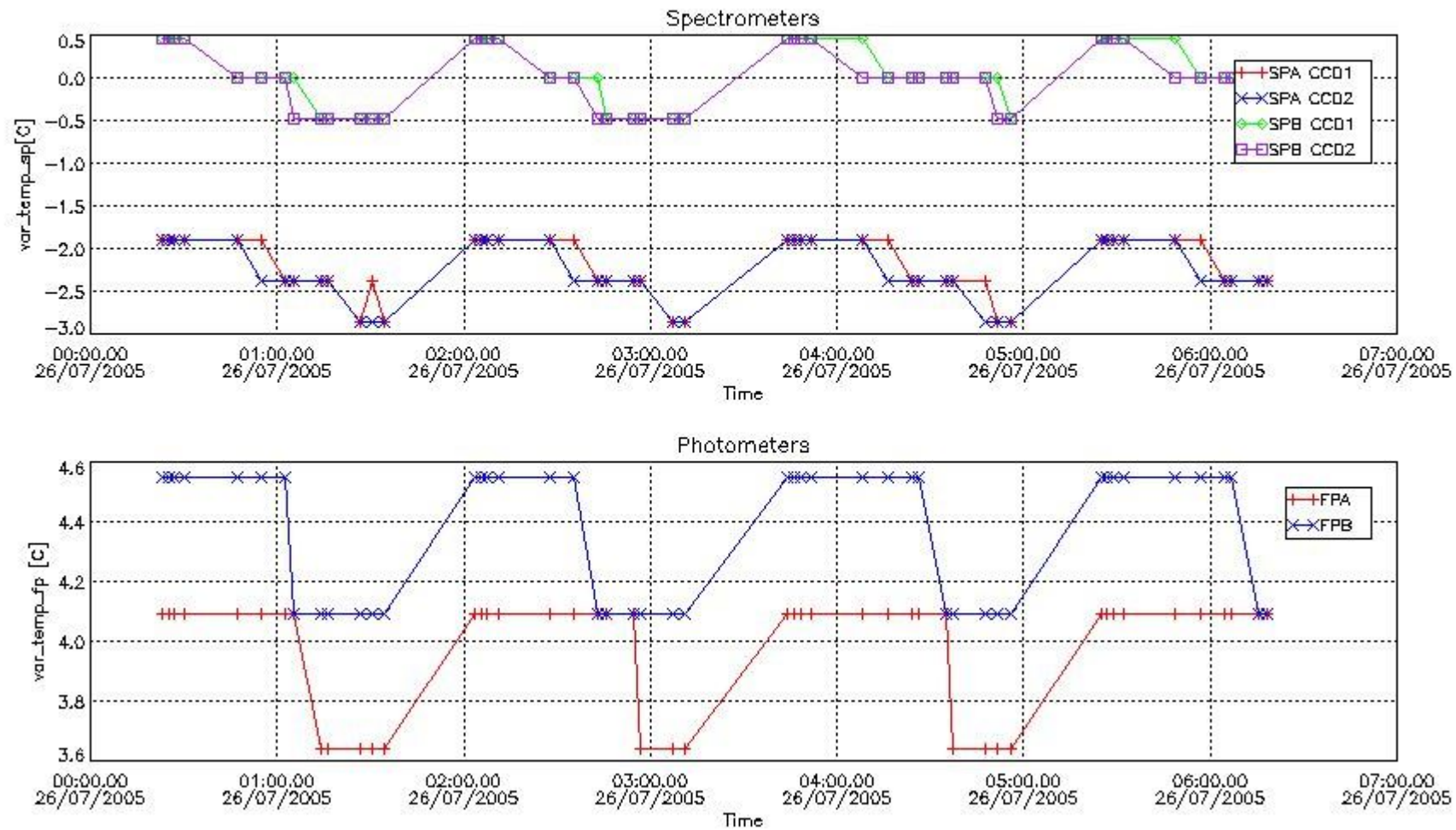
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050726_002258_000000642039_00202_17791_0011.N1 | 26-JUL-2005 00:22:58 | Twilight | 64.000   | 30      | 46Eps Ori | 1.6940   | 30000.    | 128     | 17791 | No          |
| 2  | GOM_TRA_1PNPDE20050726_002507_000000642039_00202_17791_0012.N1 | 26-JUL-2005 00:25:07 | Dark     | 64.000   | 56      | 53Kap Ori | 2.0650   | 30000.    | 128     | 17791 | No          |
| 3  | GOM_TRA_1PNPDE20050726_002702_000000652039_00202_17791_0013.N1 | 26-JUL-2005 00:27:02 | Dark     | 64.500   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 129     | 17791 | No          |
| 4  | GOM_TRA_1PNPDE20050726_003025_000000652039_00202_17791_0001.N1 | 26-JUL-2005 00:30:25 | Dark     | 64.500   | 177     | 1Zet CMa  | 3.0220   | 26000.    | 129     | 17791 | No          |
| 5  | GOM_TRA_1PNPDE20050726_004659_000000642039_00203_17792_0002.N1 | 26-JUL-2005 00:46:59 | Dark     | 63.500   | 135     | Bet Hyi   | 2.8200   | 5800.0    | 127     | 17792 | No          |
| 6  | GOM_TRA_1PNPDE20050726_005501_000000672039_00203_17792_0003.N1 | 26-JUL-2005 00:55:01 | Twilight | 67.000   | 45      | Alp Pav   | 1.9400   | 26000.    | 134     | 17792 | No          |
| 7  | GOM_TRA_1PNPDE20050726_010242_000000662039_00203_17792_0004.N1 | 26-JUL-2005 01:02:42 | Bright   | 66.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 132     | 17792 | No          |
| 8  | GOM_TRA_1PNPDE20050726_010509_000000642039_00203_17792_0005.N1 | 26-JUL-2005 01:05:09 | Bright   | 64.000   | 137     | 22Lam Sgr | 2.8240   | 4400.0    | 128     | 17792 | No          |
| 9  | GOM_TRA_1PNPDE20050726_011357_000000652039_00203_17792_0006.N1 | 26-JUL-2005 01:13:57 | Bright   | 65.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 130     | 17792 | No          |
| 10 | GOM_TRA_1PNPDE20050726_011617_000000642039_00203_17792_0007.N1 | 26-JUL-2005 01:16:17 | Bright   | 63.500   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 127     | 17792 | No          |
| 11 | GOM_TRA_1PNPDE20050726_012641_000000642039_00203_17792_0008.N1 | 26-JUL-2005 01:26:41 | Bright   | 64.000   | 69      | 33Gam Dra | 2.2310   | 3800.0    | 128     | 17792 | No          |
| 12 | GOM_TRA_1PNPDE20050726_013025_000000612039_00203_17792_0009.N1 | 26-JUL-2005 01:30:25 | Bright   | 60.500   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 121     | 17792 | No          |
| 13 | GOM_TRA_1PNPDE20050726_013438_000000622039_00203_17792_0010.N1 | 26-JUL-2005 01:34:38 | Bright   | 61.500   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 123     | 17792 | No          |
| 14 | GOM_TRA_1PNPDE20050726_020334_000000672039_00203_17792_0011.N1 | 26-JUL-2005 02:03:34 | Twilight | 66.500   | 30      | 46Eps Ori | 1.6940   | 30000.    | 133     | 17792 | No          |
| 15 | GOM_TRA_1PNPDE20050726_020543_000000642039_00203_17792_0012.N1 | 26-JUL-2005 02:05:43 | Dark     | 63.500   | 56      | 53Kap Ori | 2.0650   | 30000.    | 127     | 17792 | No          |
| 16 | GOM_TRA_1PNPDE20050726_020738_000000612039_00203_17792_0001.N1 | 26-JUL-2005 02:07:38 | Dark     | 61.000   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 122     | 17792 | No          |
| 17 | GOM_TRA_1PNPDE20050726_021101_000000652039_00203_17792_0002.N1 | 26-JUL-2005 02:11:01 | Dark     | 64.500   | 177     | 1Zet CMa  | 3.0220   | 26000.    | 129     | 17792 | No          |
| 18 | GOM_TRA_1PNPDE20050726_022735_000000652039_00204_17793_0003.N1 | 26-JUL-2005 02:27:35 | Dark     | 65.000   | 135     | Bet Hyi   | 2.8200   | 5800.0    | 130     | 17793 | No          |
| 19 | GOM_TRA_1PNPDE20050726_023538_000000662039_00204_17793_0004.N1 | 26-JUL-2005 02:35:38 | Twilight | 66.000   | 45      | Alp Pav   | 1.9400   | 26000.    | 132     | 17793 | No          |
| 20 | GOM_TRA_1PNPDE20050726_024318_000000702039_00204_17793_0005.N1 | 26-JUL-2005 02:43:18 | Bright   | 69.500   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 139     | 17793 | No          |
| 21 | GOM_TRA_1PNPDE20050726_024545_000000642039_00204_17793_0006.N1 | 26-JUL-2005 02:45:45 | Bright   | 64.000   | 137     | 22Lam Sgr | 2.8240   | 4400.0    | 128     | 17793 | No          |
| 22 | GOM_TRA_1PNPDE20050726_025434_000000652039_00204_17793_0007.N1 | 26-JUL-2005 02:54:34 | Bright   | 65.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 130     | 17793 | No          |
| 23 | GOM_TRA_1PNPDE20050726_025653_000000632039_00204_17793_0008.N1 | 26-JUL-2005 02:56:53 | Bright   | 63.000   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 126     | 17793 | No          |
| 24 | GOM_TRA_1PNPDE20050726_030717_000000612039_00204_17793_0009.N1 | 26-JUL-2005 03:07:17 | Bright   | 60.500   | 69      | 33Gam Dra | 2.2310   | 3800.0    | 121     | 17793 | No          |
| 25 | GOM_TRA_1PNPDE20050726_031101_000000642039_00204_17793_0010.N1 | 26-JUL-2005 03:11:01 | Bright   | 63.500   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 127     | 17793 | No          |
| 26 | GOM_TRA_1PNPDE20050726_034410_000000662039_00204_17793_0000.N1 | 26-JUL-2005 03:44:10 | Twilight | 65.500   | 30      | 46Eps Ori | 1.6940   | 30000.    | 131     | 17793 | No          |
| 27 | GOM_TRA_1PNPDE20050726_034619_000000622039_00204_17793_0001.N1 | 26-JUL-2005 03:46:19 | Dark     | 61.500   | 56      | 53Kap Ori | 2.0650   | 30000.    | 123     | 17793 | No          |
| 28 | GOM_TRA_1PNPDE20050726_034814_000000612039_00204_17793_0002.N1 | 26-JUL-2005 03:48:14 | Dark     | 60.500   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 121     | 17793 | No          |
| 29 | GOM_TRA_1PNPDE20050726_035137_000000632039_00204_17793_0003.N1 | 26-JUL-2005 03:51:37 | Dark     | 63.000   | 177     | 1Zet CMa  | 3.0220   | 26000.    | 126     | 17793 | No          |
| 30 | GOM_TRA_1PNPDE20050726_040811_000000652039_00205_17794_0004.N1 | 26-JUL-2005 04:08:11 | Dark     | 64.500   | 135     | Bet Hyi   | 2.8200   | 5800.0    | 129     | 17794 | No          |
| 31 | GOM_TRA_1PNPDE20050726_041614_000000662039_00205_17794_0005.N1 | 26-JUL-2005 04:16:14 | Twilight | 65.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 131     | 17794 | No          |
| 32 | GOM_TRA_1PNPDE20050726_042354_000000682039_00205_17794_0006.N1 | 26-JUL-2005 04:23:54 | Bright   | 68.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 136     | 17794 | No          |
| 33 | GOM_TRA_1PNPDE20050726_042621_000000652039_00205_17794_0007.N1 | 26-JUL-2005 04:26:21 | Bright   | 65.000   | 137     | 22Lam Sgr | 2.8240   | 4400.0    | 130     | 17794 | No          |
| 34 | GOM_TRA_1PNPDE20050726_043510_000000632039_00205_17794_0008.N1 | 26-JUL-2005 04:35:10 | Bright   | 62.500   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 125     | 17794 | No          |
| 35 | GOM_TRA_1PNPDE20050726_043730_000000642039_00205_17794_0009.N1 | 26-JUL-2005 04:37:30 | Bright   | 64.000   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 128     | 17794 | No          |
| 36 | GOM_TRA_1PNPDE20050726_044753_000000642039_00205_17794_0010.N1 | 26-JUL-2005 04:47:53 | Bright   | 63.500   | 69      | 33Gam Dra | 2.2310   | 3800.0    | 127     | 17794 | No          |
| 37 | GOM_TRA_1PNPDE20050726_045137_000000612039_00205_17794_0011.N1 | 26-JUL-2005 04:51:37 | Bright   | 61.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 122     | 17794 | No          |
| 38 | GOM_TRA_1PNPDE20050726_045551_000000612039_00205_17794_0012.N1 | 26-JUL-2005 04:55:51 | Bright   | 61.000   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 122     | 17794 | No          |
| 39 | GOM_TRA_1PNPDE20050726_052446_000000642039_00205_17794_0000.N1 | 26-JUL-2005 05:24:46 | Twilight | 63.500   | 30      | 46Eps Ori | 1.6940   | 30000.    | 127     | 17794 | No          |
| 40 | GOM_TRA_1PNPDE20050726_052656_000000612039_00205_17794_0001.N1 | 26-JUL-2005 05:26:56 | Dark     | 61.000   | 56      | 53Kap Ori | 2.0650   | 30000.    | 122     | 17794 | No          |
| 41 | GOM_TRA_1PNPDE20050726_052850_000000652039_00205_17794_0002.N1 | 26-JUL-2005 05:28:50 | Dark     | 65.000   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 130     | 17794 | No          |
| 42 | GOM_TRA_1PNPDE20050726_053213_000000642039_00205_17794_0003.N1 | 26-JUL-2005 05:32:13 | Dark     | 64.000   | 177     | 1Zet CMa  | 3.0220   | 26000.    | 128     | 17794 | No          |
| 43 | GOM_TRA_1PNPDE20050726_054847_000000652039_00206_17795_0004.N1 | 26-JUL-2005 05:48:47 | Dark     | 64.500   | 135     | Bet Hyi   | 2.8200   | 5800.0    | 129     | 17795 | No          |
| 44 | GOM_TRA_1PNPDE20050726_055650_000000662039_00206_17795_0005.N1 | 26-JUL-2005 05:56:50 | Twilight | 66.000   | 45      | Alp Pav   | 1.9400   | 26000.    | 132     | 17795 | No          |
| 45 | GOM_TRA_1PNPDE20050726_060431_000000692039_00206_17795_0006.N1 | 26-JUL-2005 06:04:31 | Bright   | 68.500   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 137     | 17795 | No          |
| 46 | GOM_TRA_1PNPDE20050726_060657_000000652039_00206_17795_0007.N1 | 26-JUL-2005 06:06:57 | Bright   | 65.000   | 137     | 22Lam Sgr | 2.8240   | 4400.0    | 130     | 17795 | No          |

|    |   |                      |        |        |     |           |        |        |     |       |    |
|----|---|----------------------|--------|--------|-----|-----------|--------|--------|-----|-------|----|
| 47 | GOM_TRA_1PNPDE20050726_061546_00000642039_00206_17795_0008.N1 | 26-JUL-2005 06:15:46 | Bright | 63.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 127 | 17795 | No |
| 48 | GOM_TRA_1PNPDE20050726_061806_00000642039_00206_17795_0009.N1 | 26-JUL-2005 06:18:06 | Bright | 63.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 127 | 17795 | No |

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



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

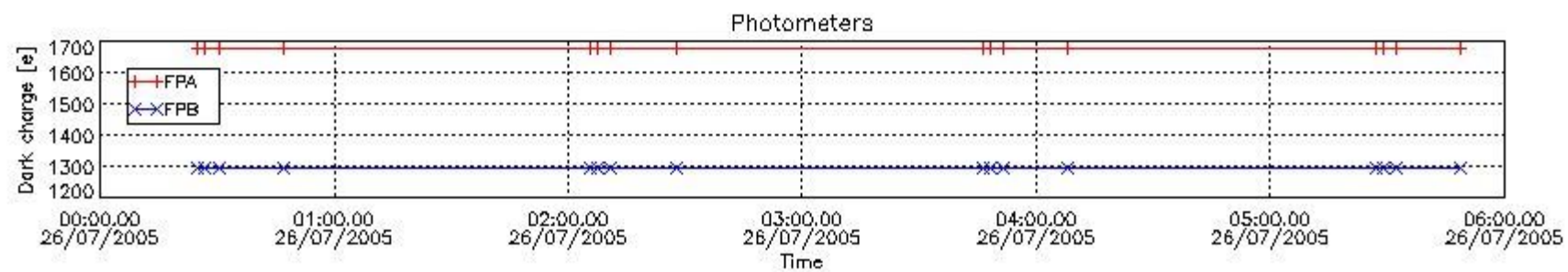
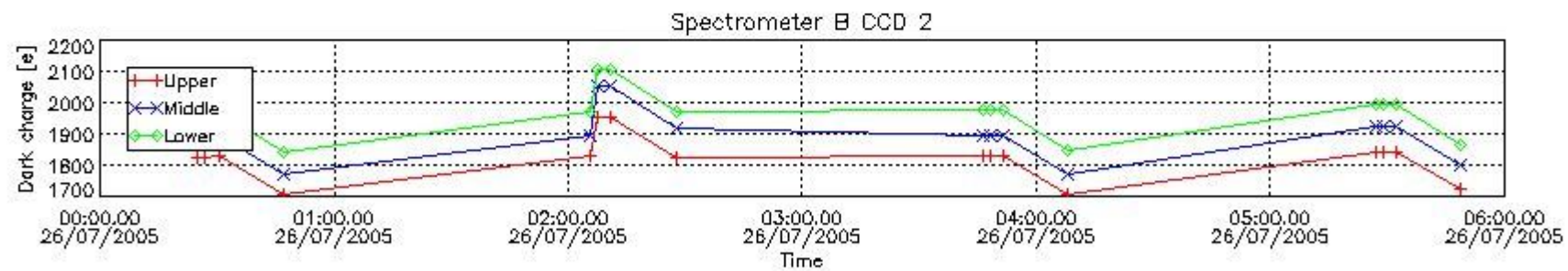
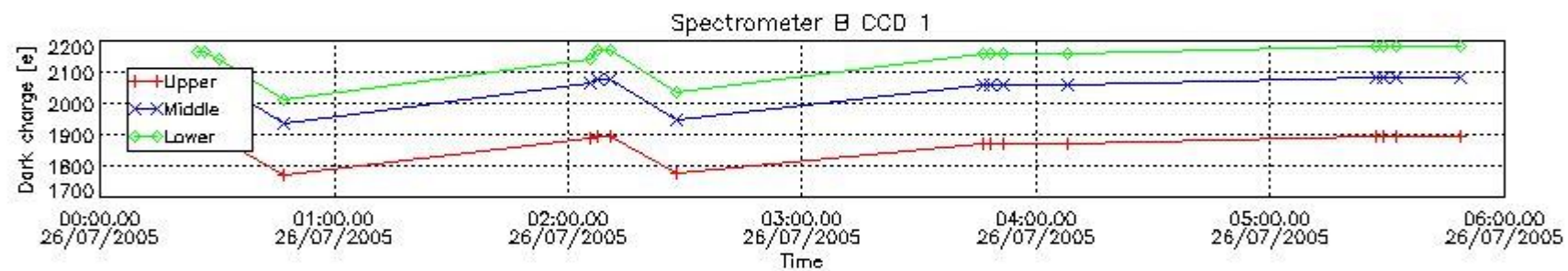
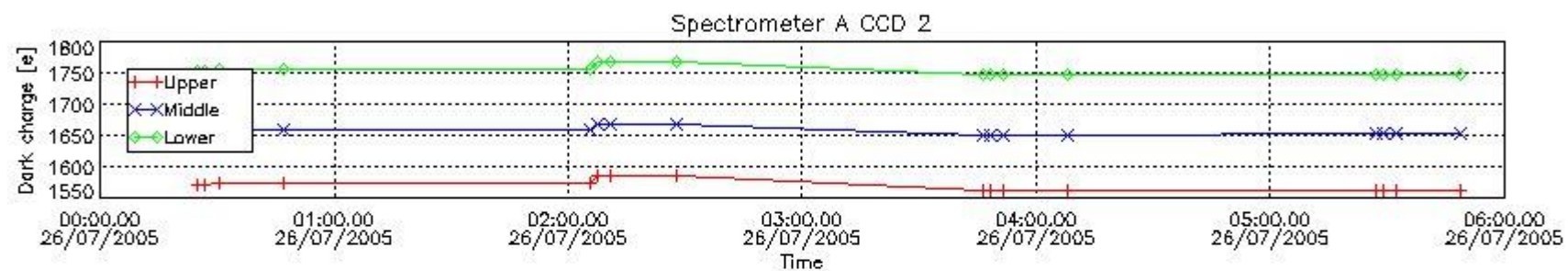
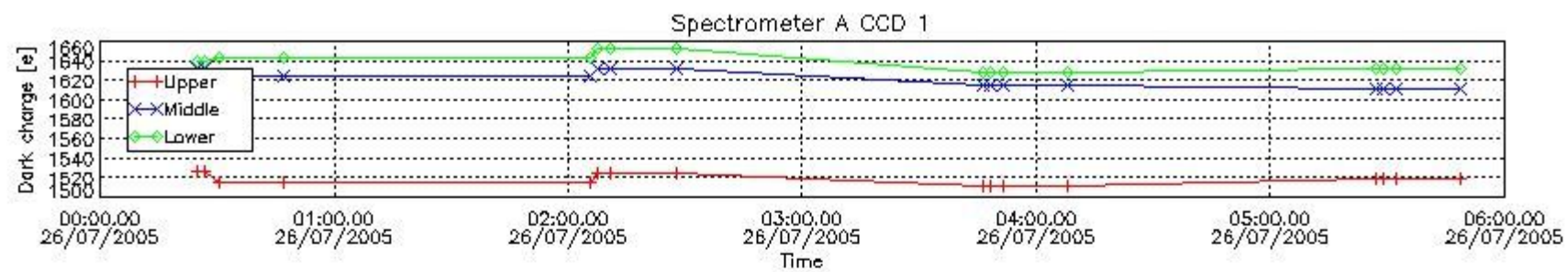
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





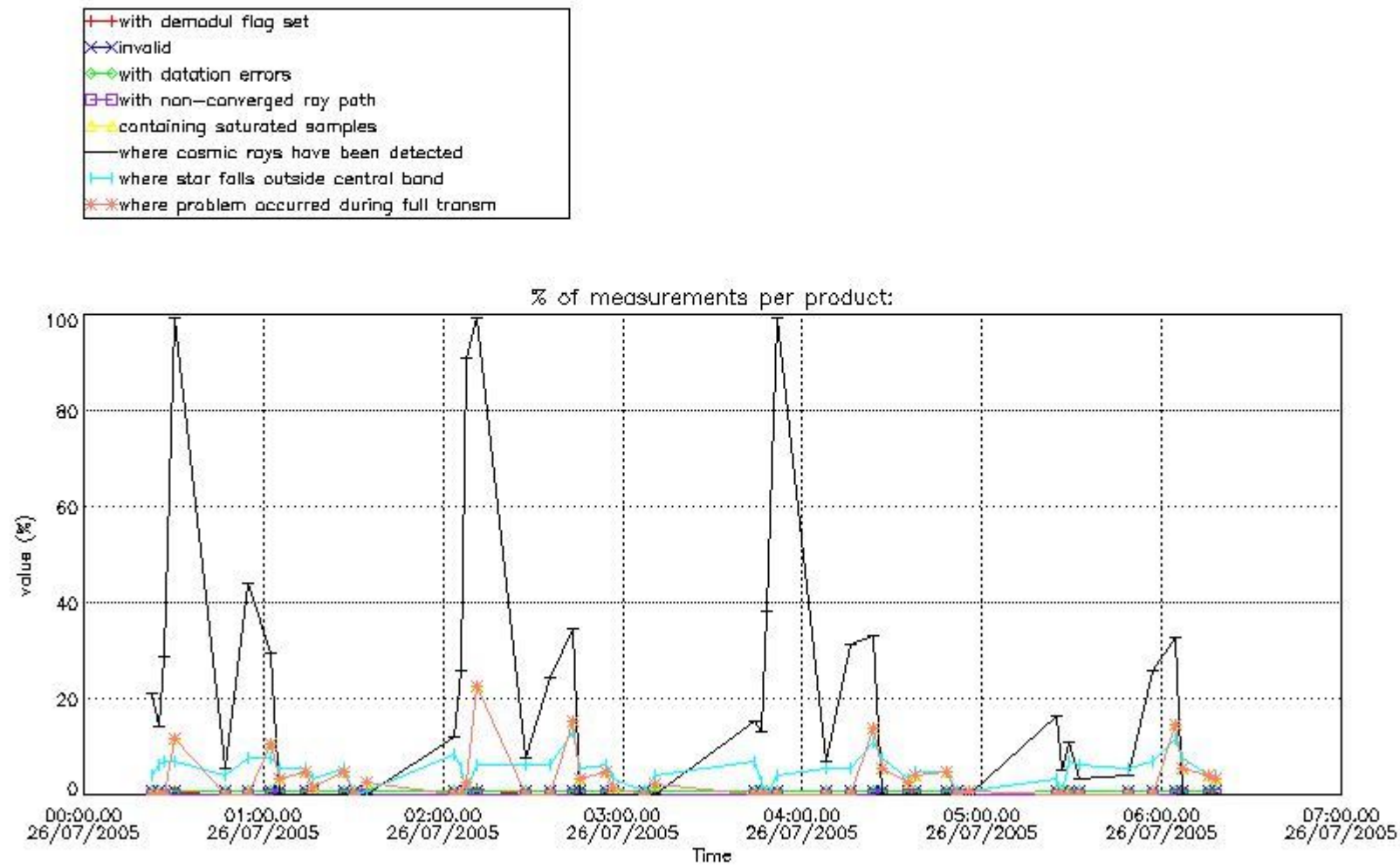
## 5. Demodulation flag and quality information monitoring

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:

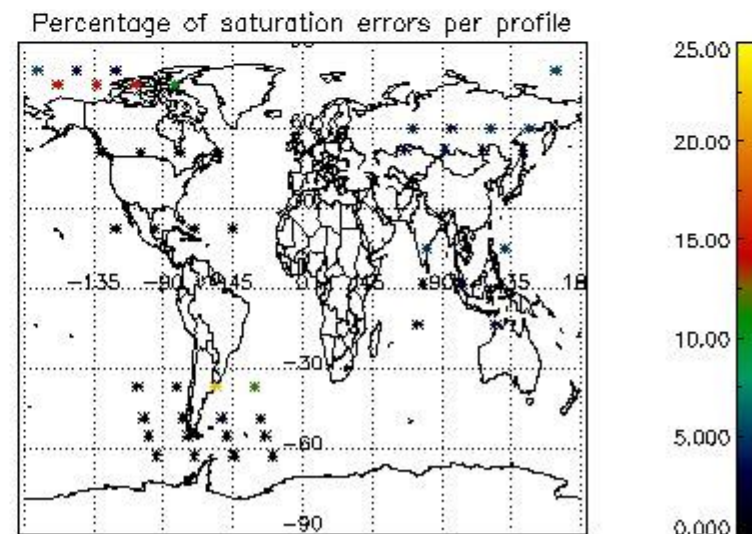
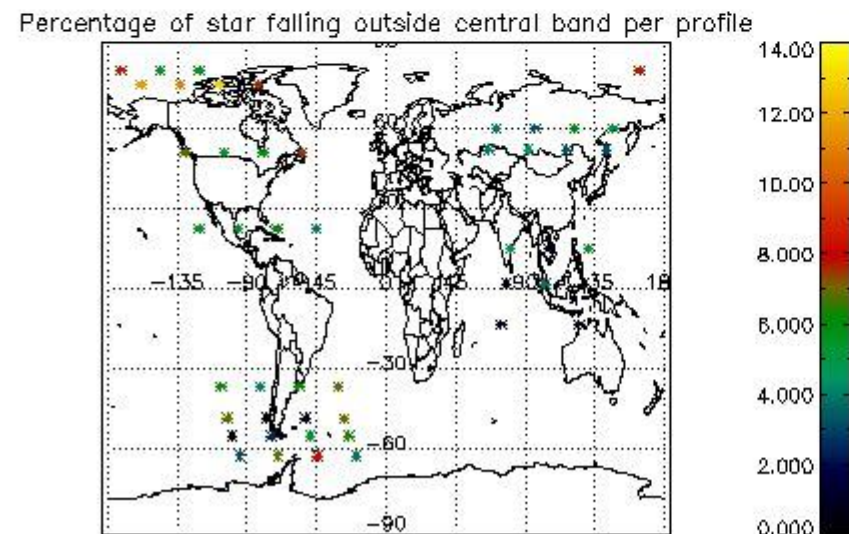
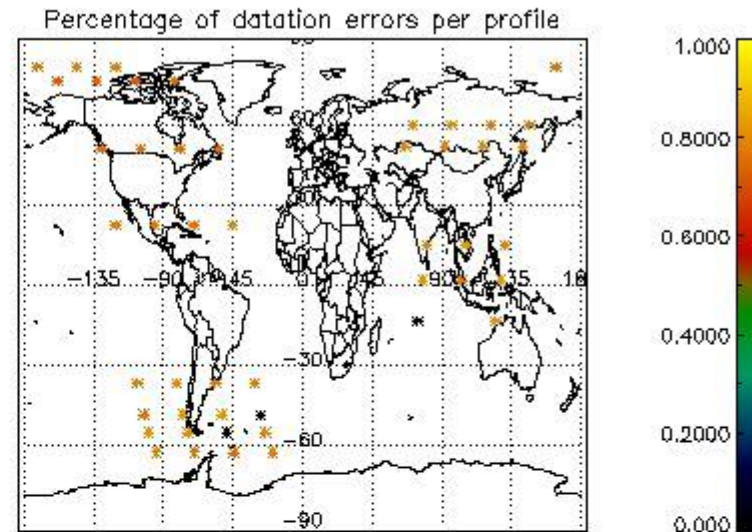
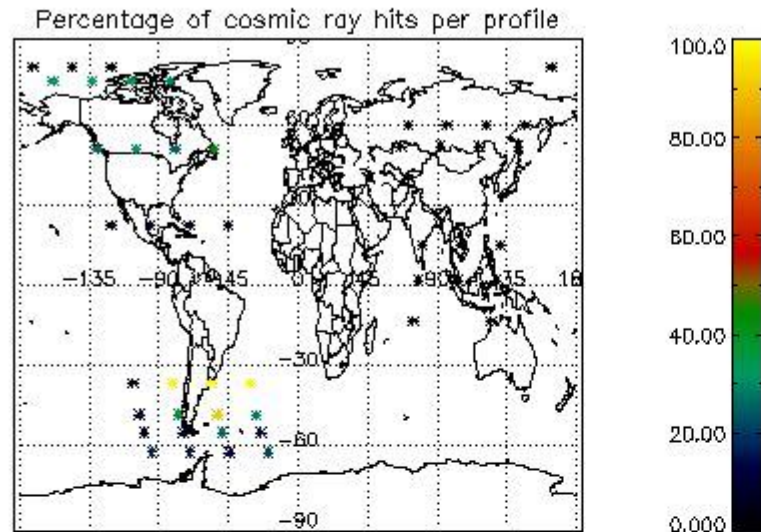
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 12.5000 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

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



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





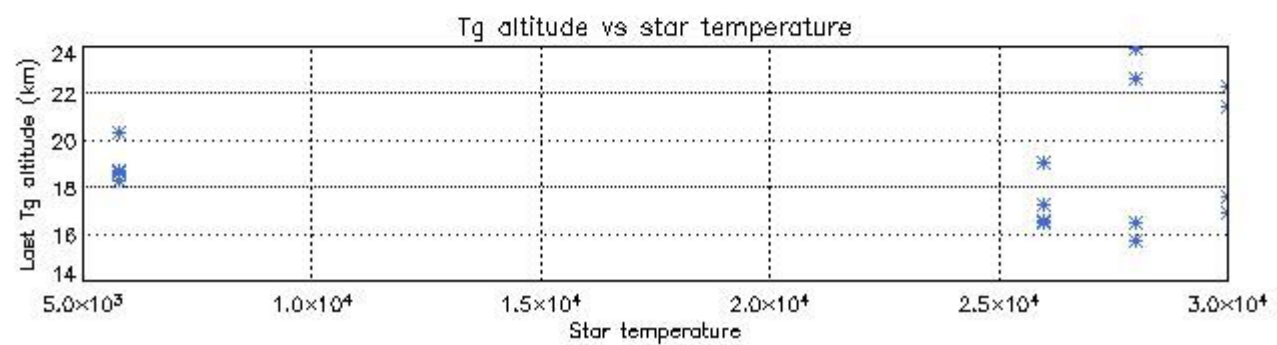
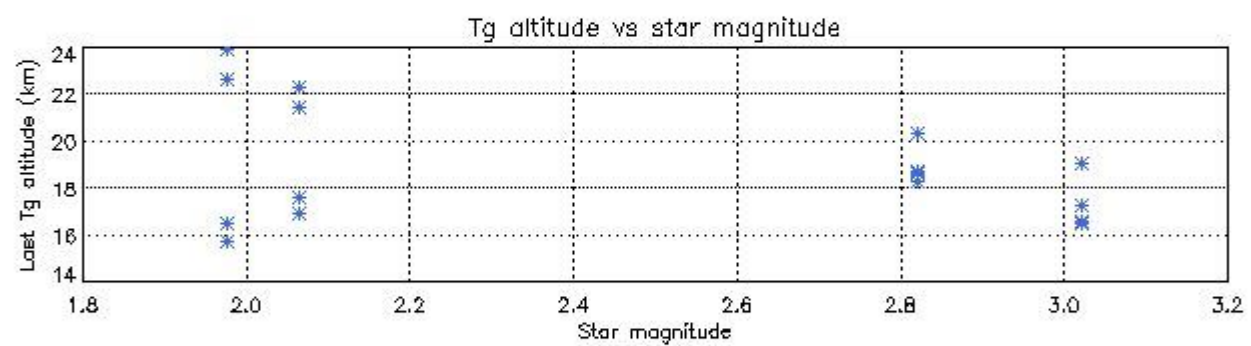
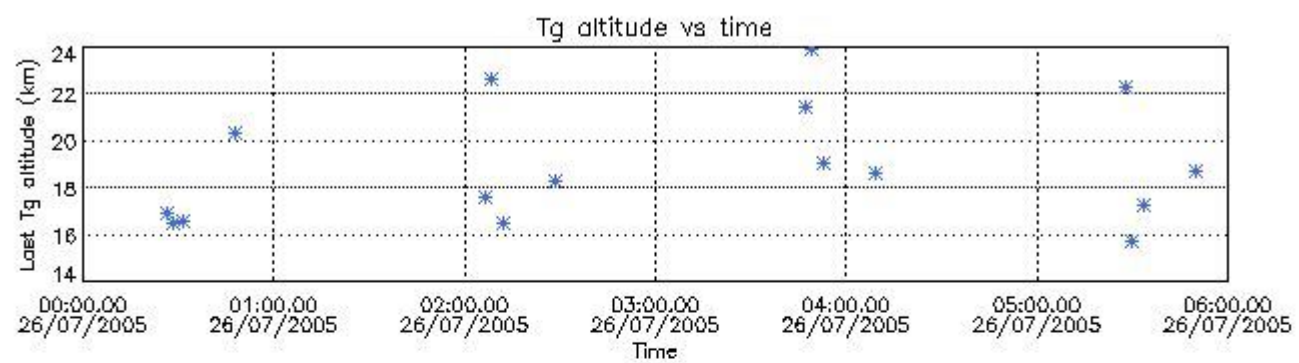
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 18.882 | 19.478 | 17.280   |
| St. deviation:  | 2.5184 | 4.0691 | 1.4632   |
| Maximum:        | 23.901 | 26.696 | 18.792   |
| Minimum:        | 15.748 | 11.746 | 14.536   |
| Number of data: | 16.000 | 24.000 | 8.0000   |

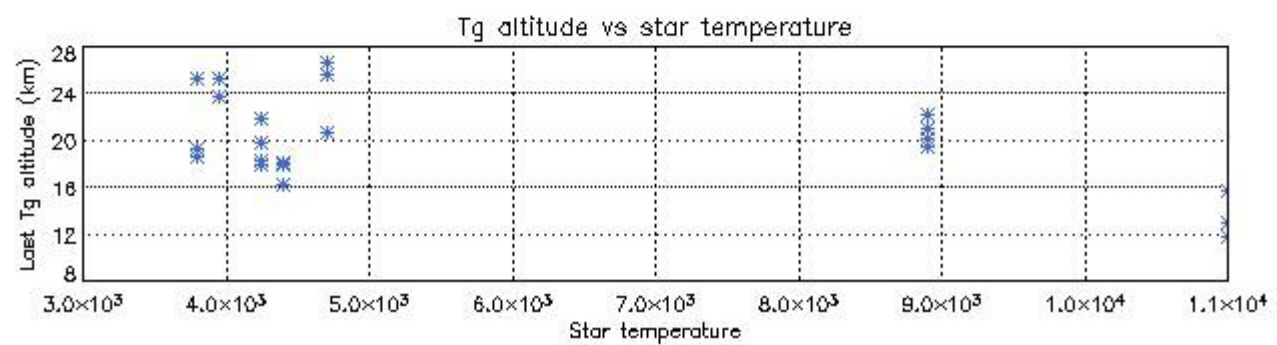
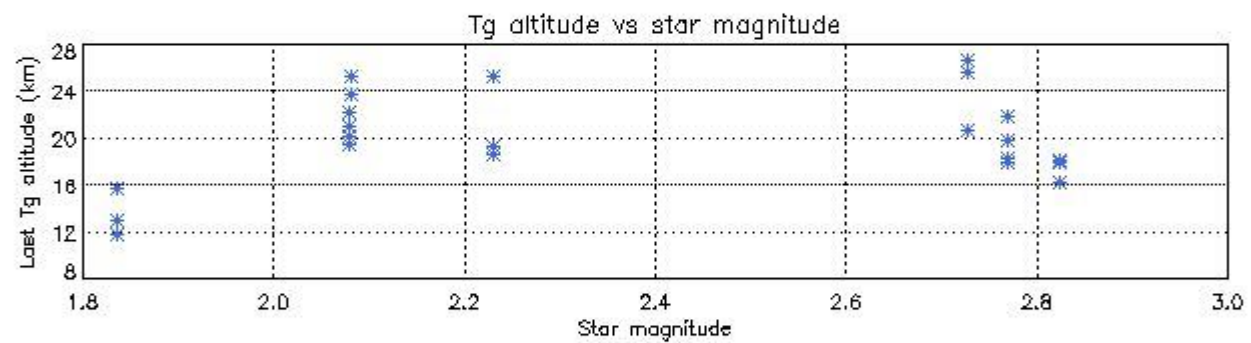
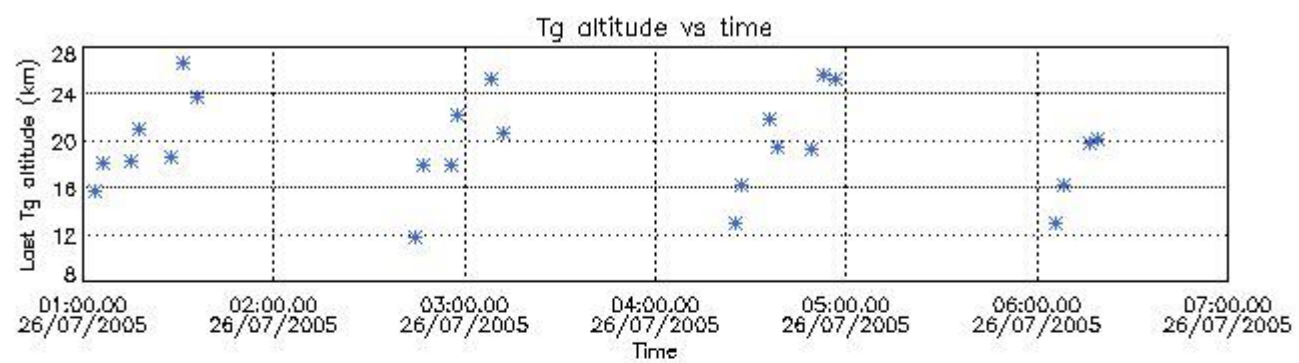
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

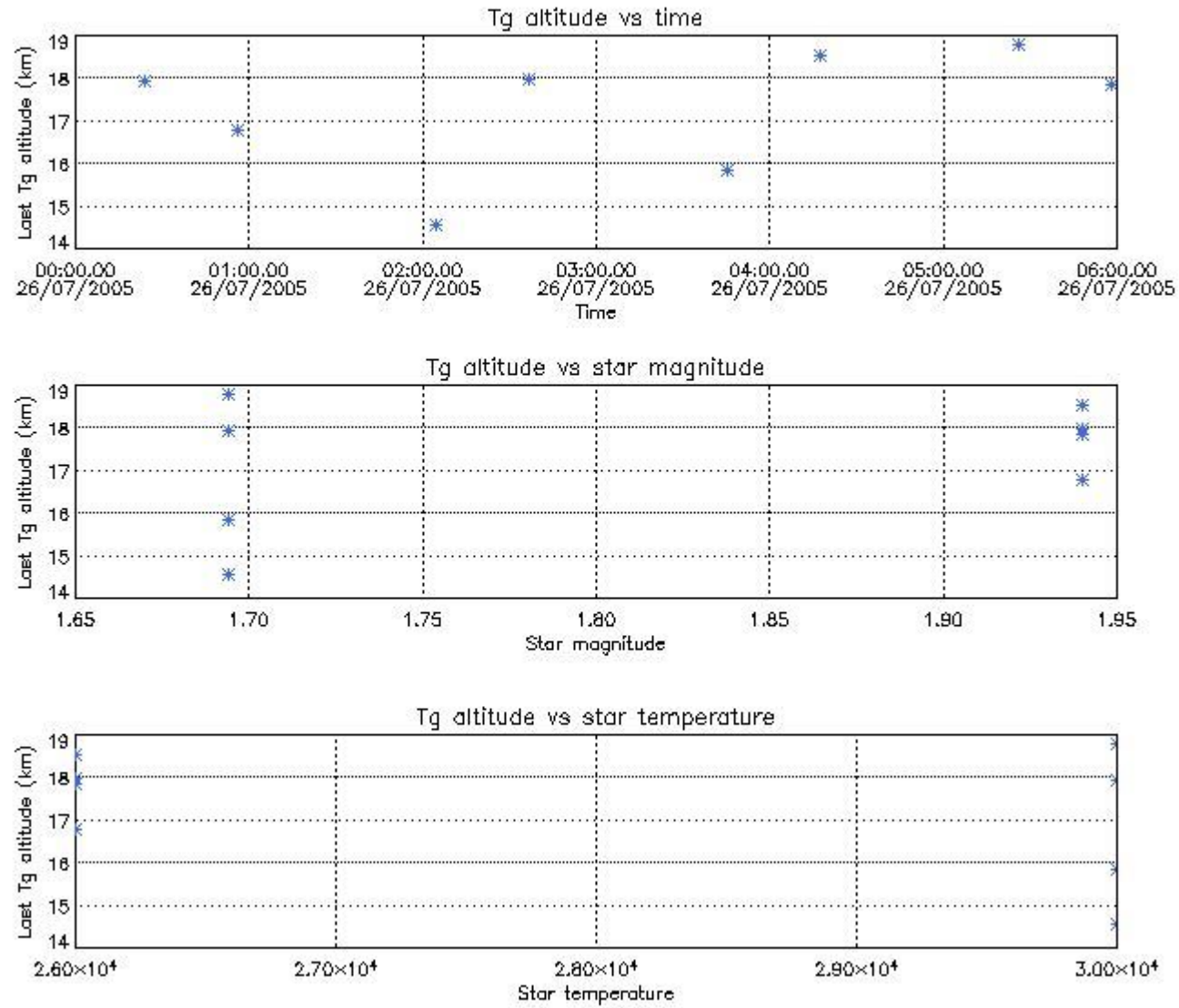
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

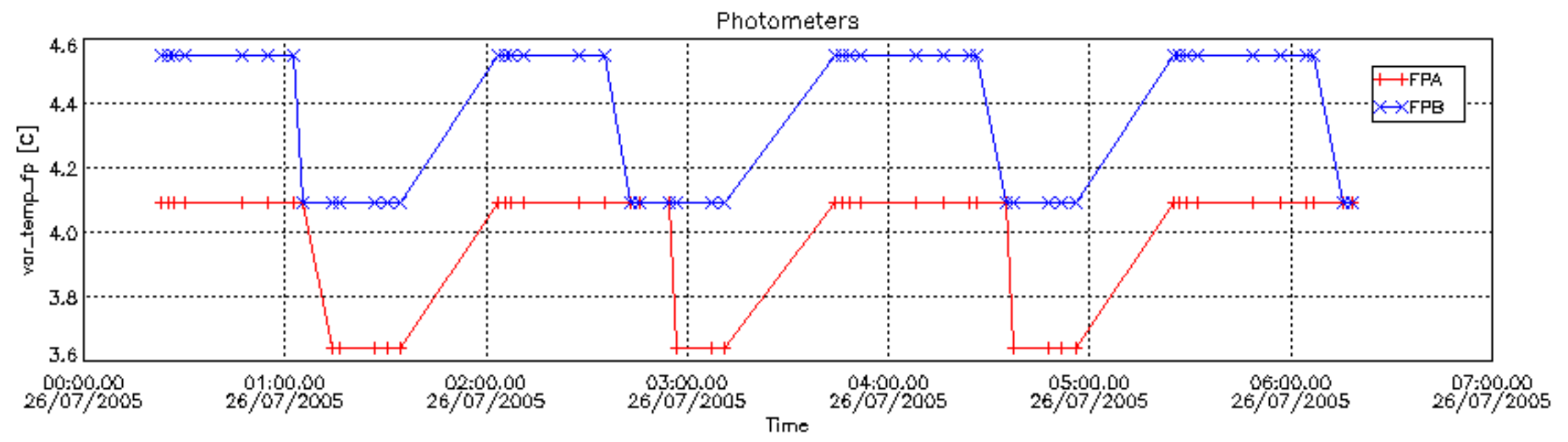
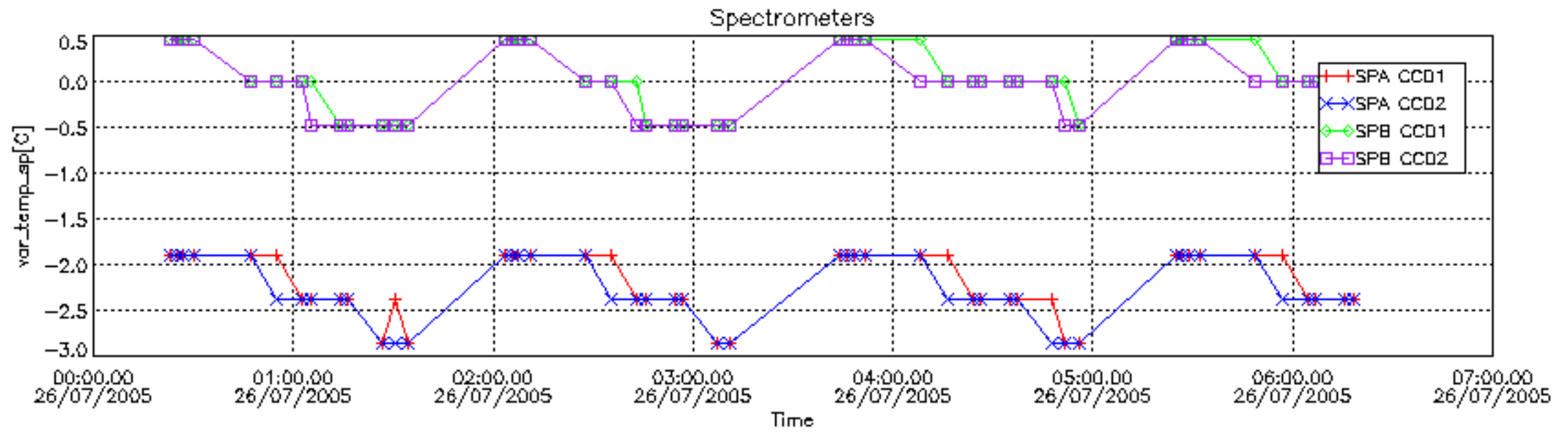
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

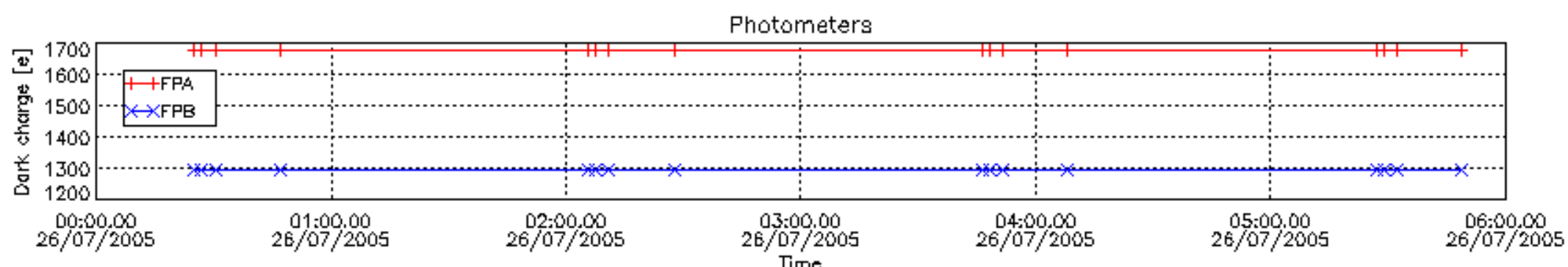
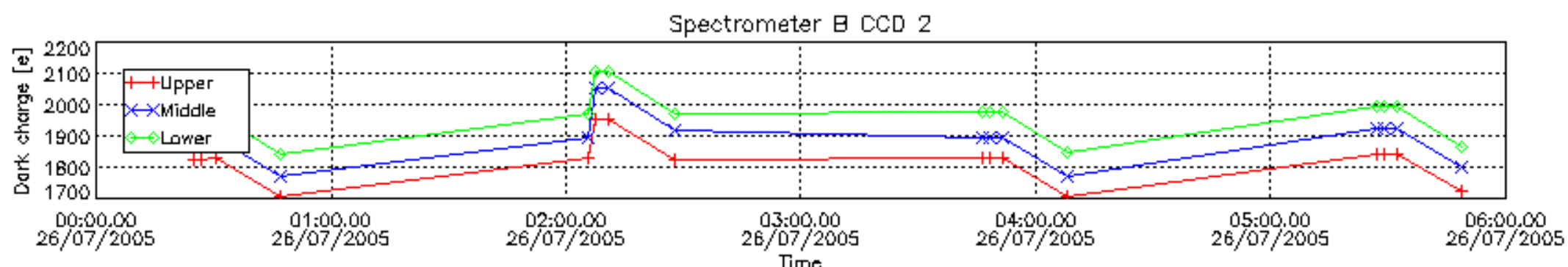
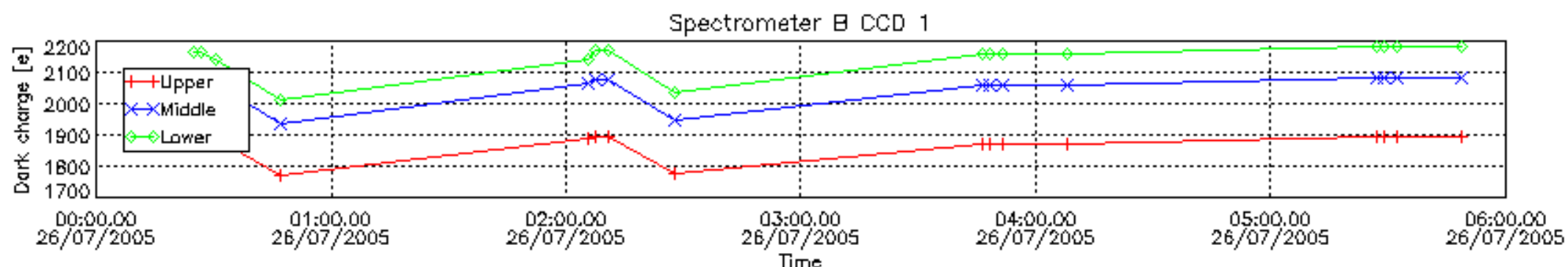
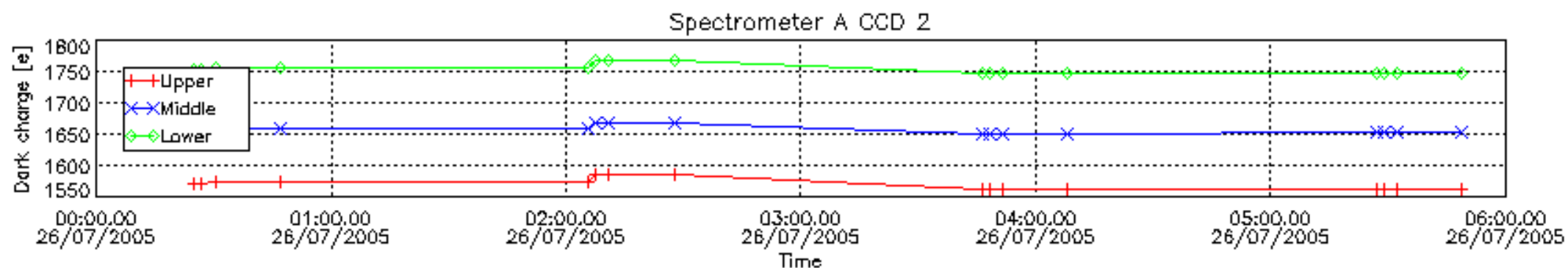
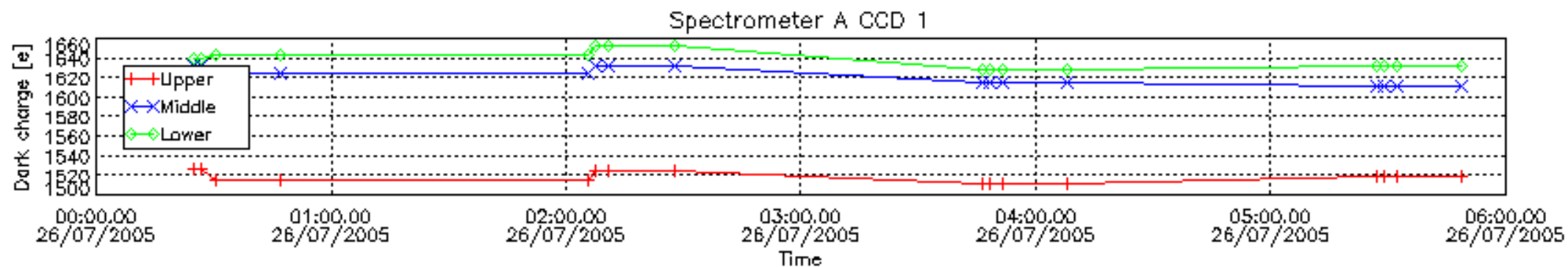
| Statistics      | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean:           | 1459.1     | 1445.4     | 1460.5     | 1445.2     |
| St. deviation:  | 8.8281     | 7.8780     | 5.7281     | 5.4901     |
| Maximum:        | 1573.0     | 1536.0     | 1491.0     | 1470.0     |
| Minimum:        | 1433.0     | 1423.0     | 1438.0     | 1423.0     |
| Number of data: | 56150.     | 56150.     | 85050.     | 85050.     |

## 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_AXVIEC20030716_105425_20030716_120000_20100101_000000 | 1                  | 26-JUL-2005 00:22:58    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20050627_100506_20050626_000000_20100101_000000 | 1                  | 26-JUL-2005 00:22:58    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000 | 1                  | 26-JUL-2005 00:22:58    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1                  | 26-JUL-2005 00:22:58    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000 | 1                  | 26-JUL-2005 00:22:58    |
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| ECMWF_FILE                | AUX_ECF_AXNECM20050725_193043_20050726_030000_20050726_150000 | 26                 | 26-JUL-2005 03:44:10    |
| ECMWF_FILE                | AUX_ECA_AXNECM20050726_070111_20050725_210000_20050726_090000 | 39                 | 26-JUL-2005 05:24:46    |
| OPTIONAL_ECMWF_FILE       | NOT USED  | 1                  | 26-JUL-2005 00:22:58    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20050725_230027_20050725_193854_20050804_210505 | 1                  | 26-JUL-2005 00:22:58    |

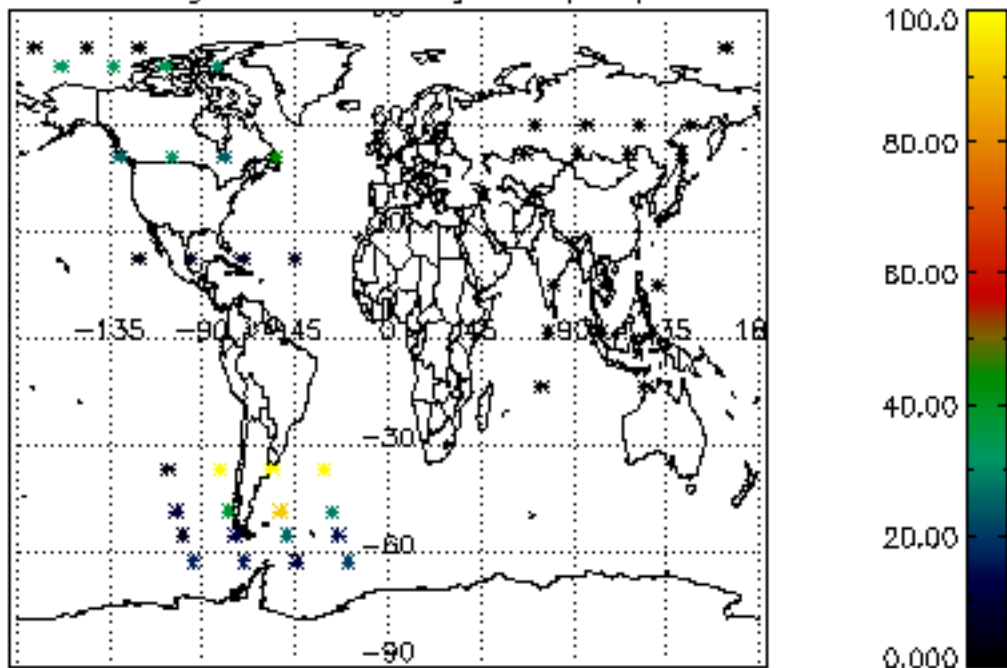




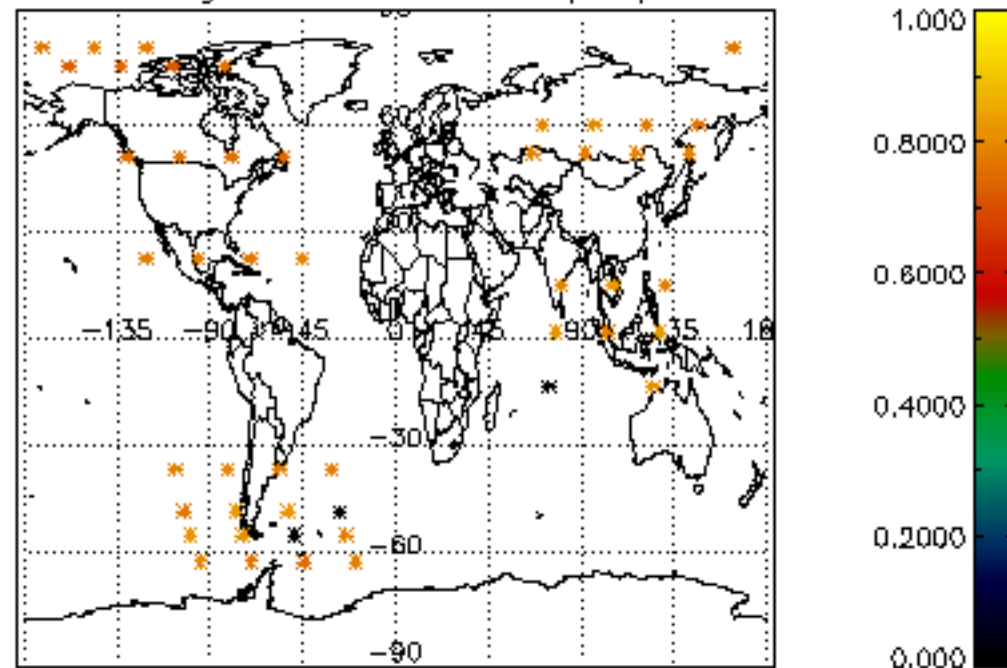




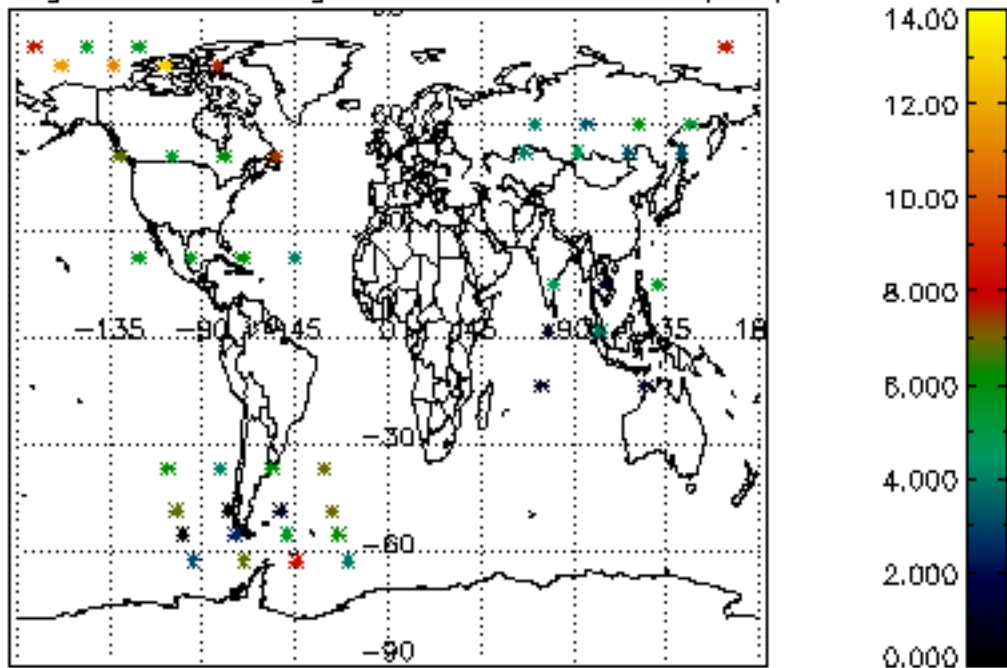
Percentage of cosmic ray hits per profile



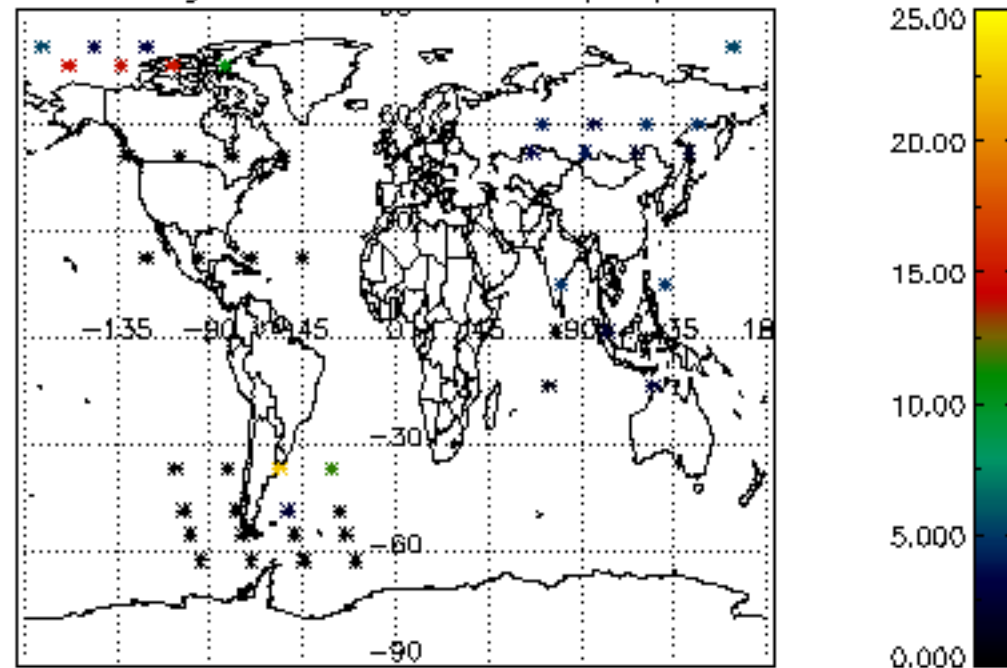
Percentage of datation errors per profile



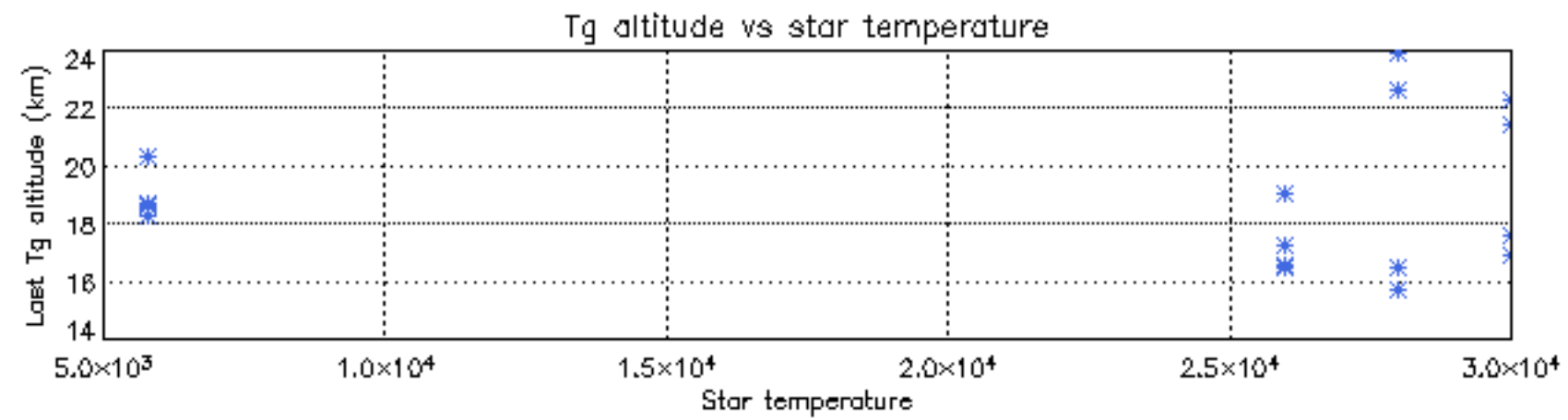
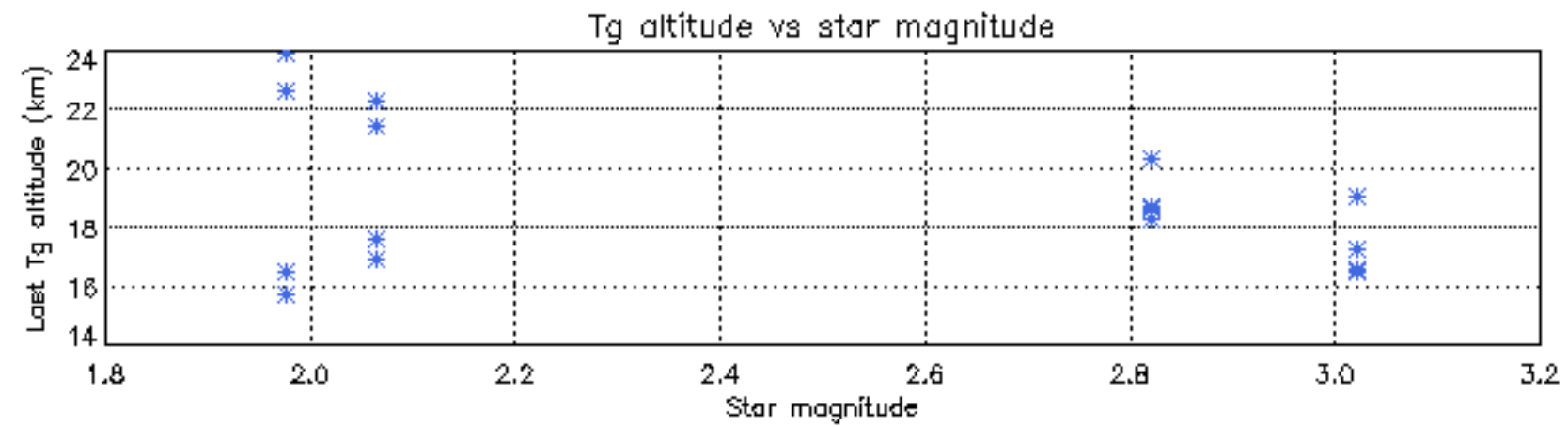
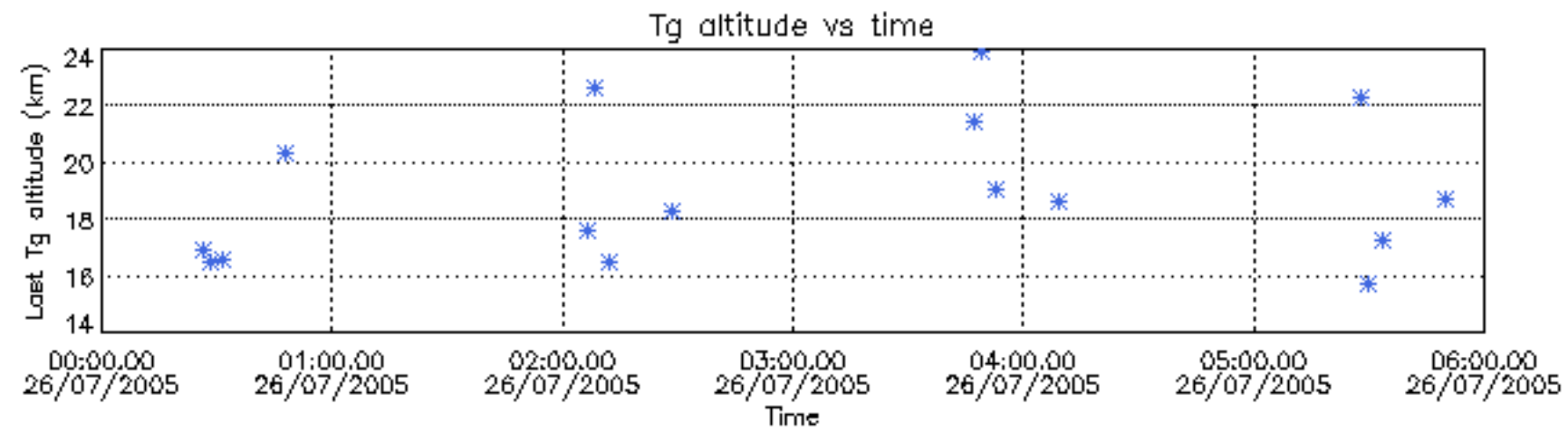
Percentage of star falling outside central band per profile



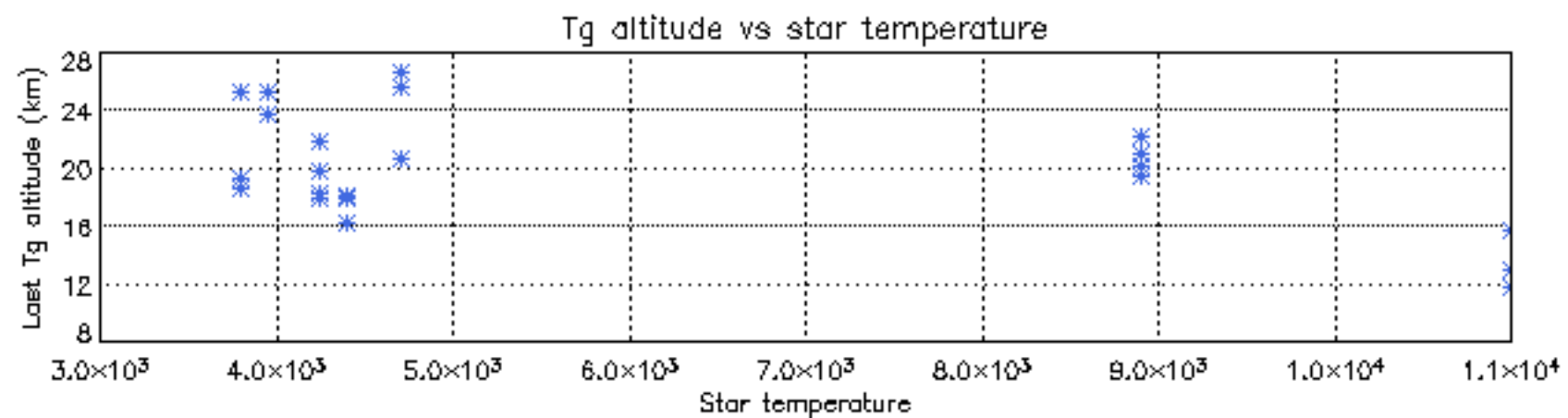
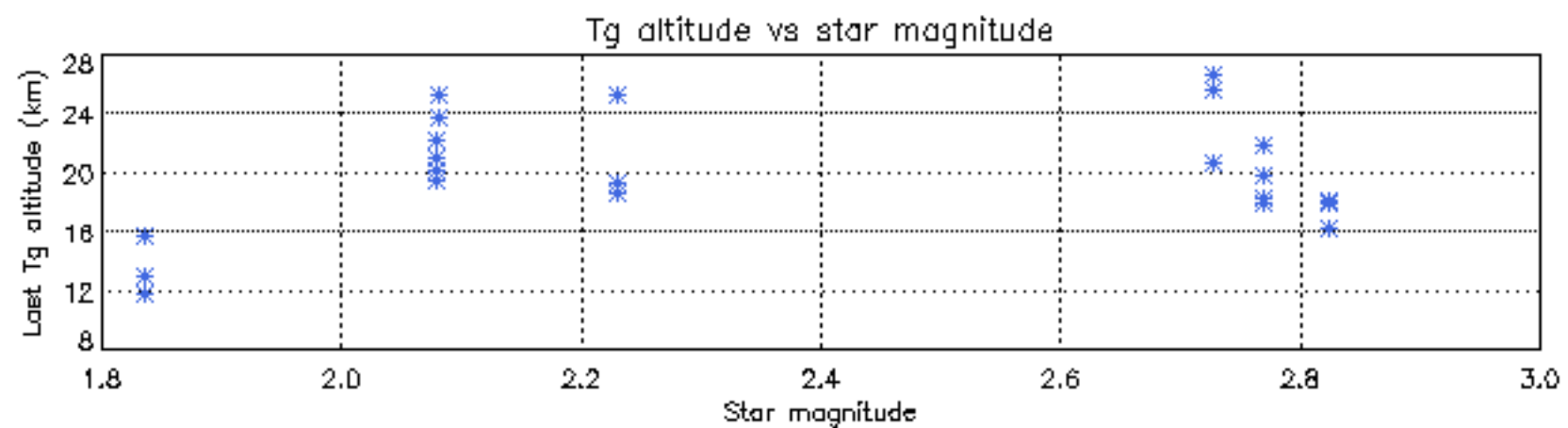
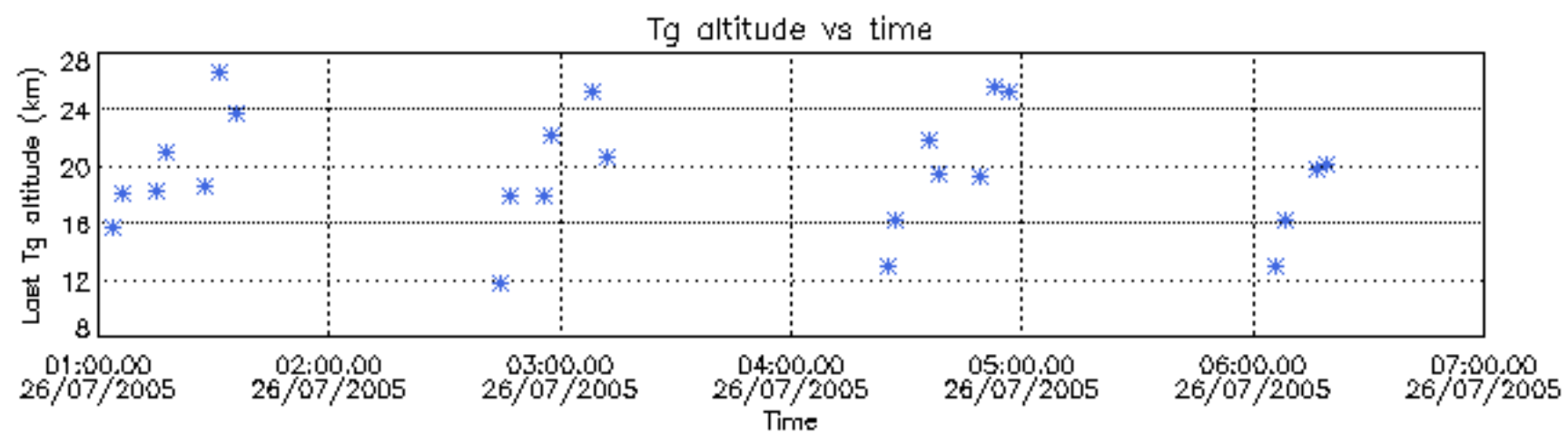
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

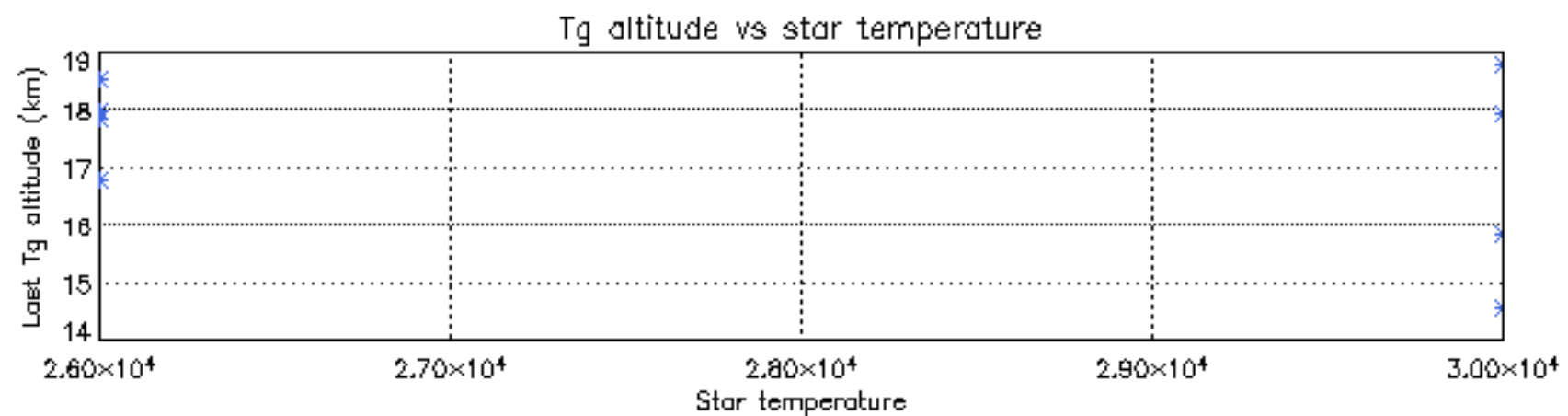
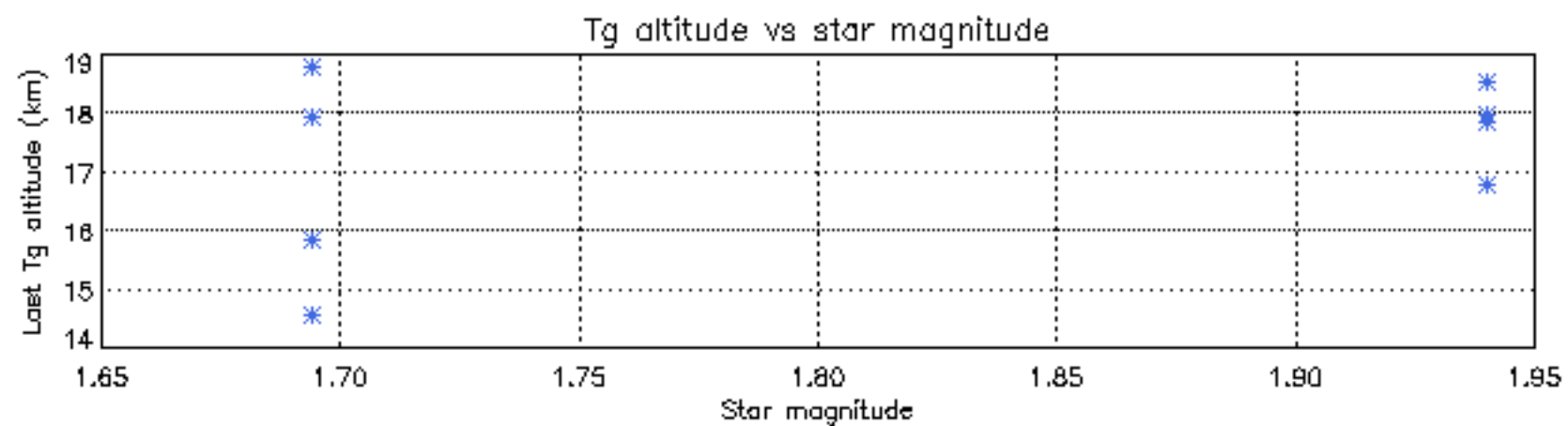
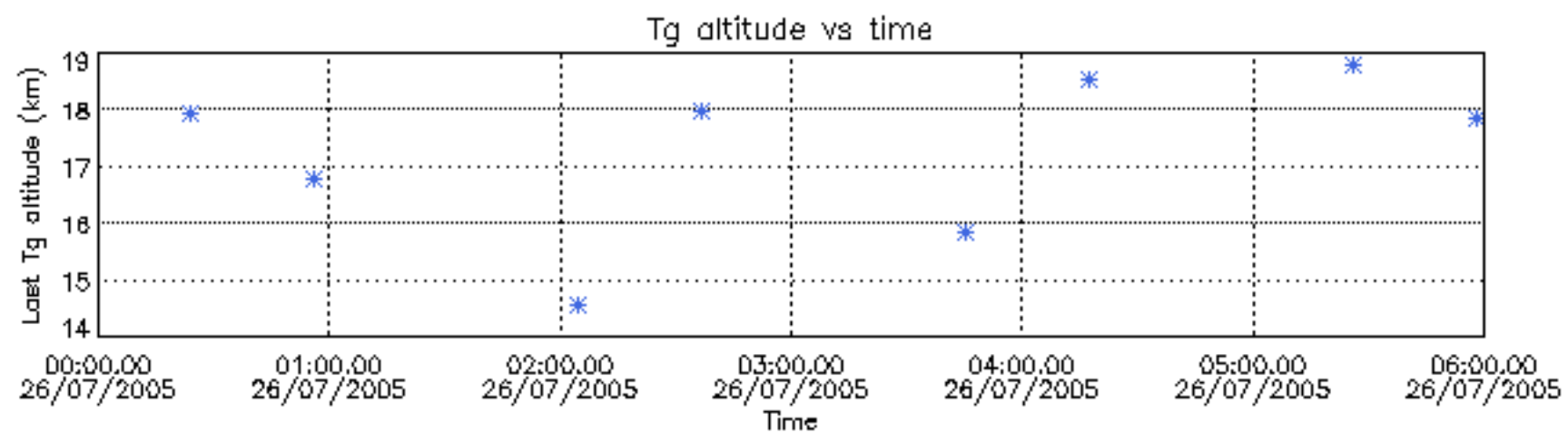


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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