

GOMOS Daily Report 13-JUN-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 | 15JUN2007 05:32:21 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (13JUN2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (14JUN2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 50 |
| Nb of prods with errors | 0 |

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

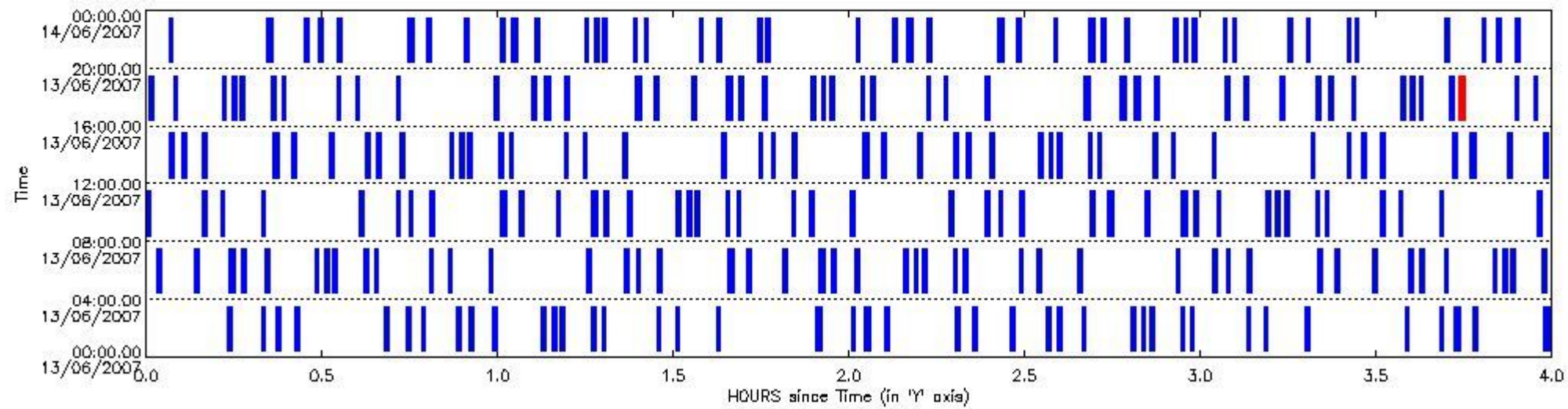
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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)

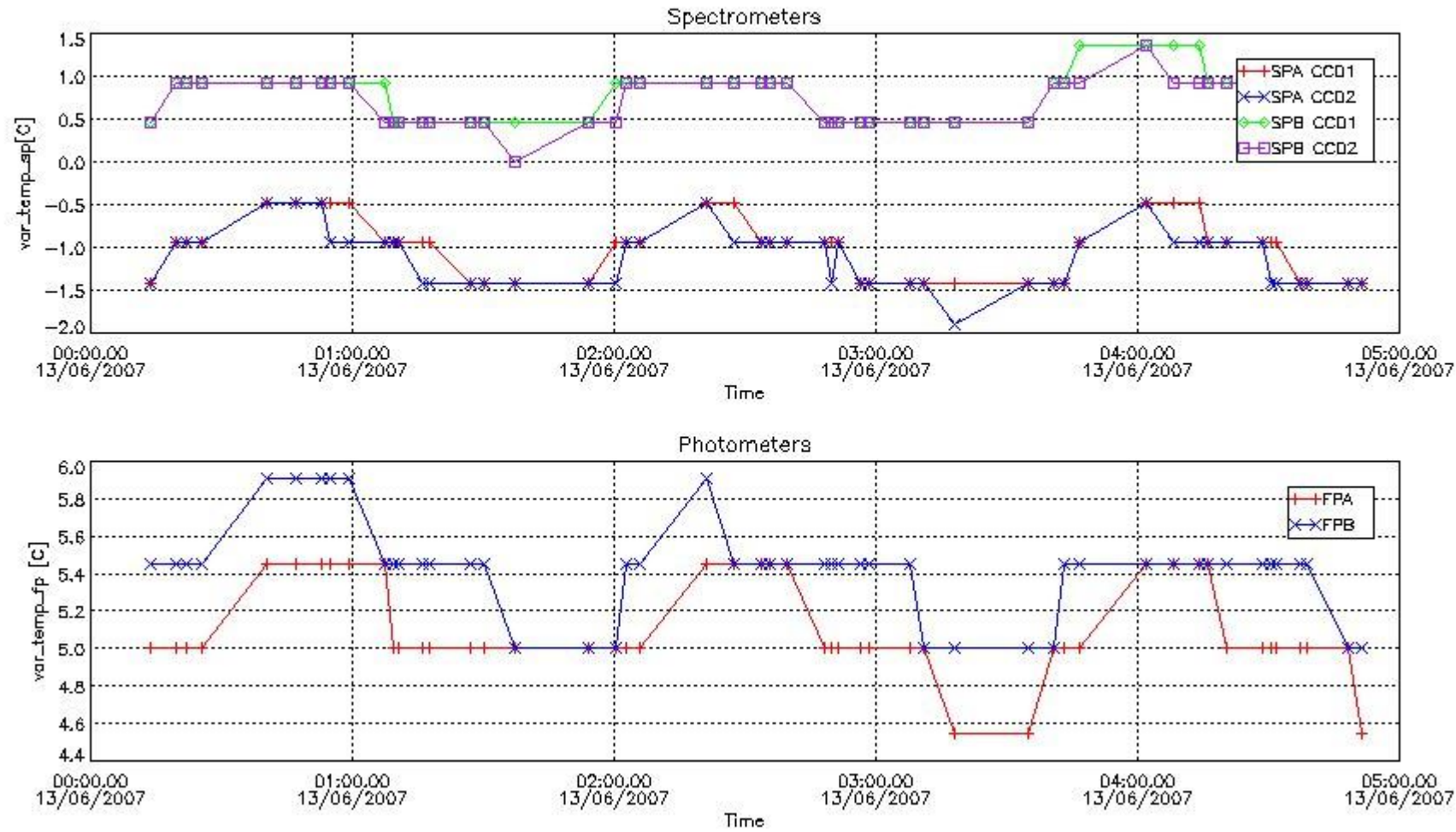
| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 13-JUN-2007 19:44:13 | 13ZetOph | 98 | 27637 |

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_1PNPDE20070613_001341_000000582059_00016_27625_6423.N1 | 13-JUN-2007 00:13:41 | Bright | 58.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 116 | 27625 | No |
| 2 | GOM_TRA_1PNPDE20070613_001943_000000382059_00016_27625_6424.N1 | 13-JUN-2007 00:19:43 | Bright | 37.500 | 73 | 57Gam1And | 2.2600 | 13100. | 75 | 27625 | No |
| 3 | GOM_TRA_1PNPDE20070613_002204_000000542059_00016_27625_6425.N1 | 13-JUN-2007 00:22:04 | Twilight | 53.500 | 53 | 43Bet And | 2.0480 | 3300.0 | 107 | 27625 | No |
| 4 | GOM_TRA_1PNPDE20070613_002526_000000462059_00016_27625_6426.N1 | 13-JUN-2007 00:25:26 | Twilight | 46.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 92 | 27625 | No |
| 5 | GOM_TRA_1PNPDE20070613_004032_000000532059_00016_27625_6550.N1 | 13-JUN-2007 00:40:32 | Dark | 53.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 106 | 27625 | No |
| 6 | GOM_TRA_1PNPDE20070613_004655_000000422059_00016_27625_6551.N1 | 13-JUN-2007 00:46:55 | Dark | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 27625 | No |
| 7 | GOM_TRA_1PNPDE20070613_005259_000000522059_00017_27626_6552.N1 | 13-JUN-2007 00:52:59 | Dark | 52.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 104 | 27626 | No |
| 8 | GOM_TRA_1PNPDE20070613_005501_000000472059_00017_27626_6553.N1 | 13-JUN-2007 00:55:01 | Dark | 46.500 | 31 | Alp Gru | 1.7340 | 15200. | 93 | 27626 | No |
| 9 | GOM_TRA_1PNPDE20070613_005908_000000442059_00017_27626_6554.N1 | 13-JUN-2007 00:59:08 | Straylight | 44.000 | 45 | Alp Pav | 1.9400 | 26000. | 88 | 27626 | No |
| 10 | GOM_TRA_1PNPDE20070613_010732_000000452059_00017_27626_6555.N1 | 13-JUN-2007 01:07:32 | Twilight | 45.000 | 40 | The Sco | 1.8590 | 7100.0 | 90 | 27626 | No |

| | | | | | | | | | | | |
|----|----------------------------------------------------------------|----------------------|------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 11 | GOM_TRA_1PNPDE20070613_010915_000000432059_00017_27626_6556.N1 | 13-JUN-2007 01:09:15 | Twilight | 43.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 86 | 27626 | No |
| 12 | GOM_TRA_1PNPDE20070613_011038_000000482059_00017_27626_6557.N1 | 13-JUN-2007 01:10:38 | Twilight | 48.000 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 96 | 27626 | No |
| 13 | GOM_TRA_1PNPDE20070613_011559_000000402059_00017_27626_6558.N1 | 13-JUN-2007 01:15:59 | Bright | 39.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 79 | 27626 | No |
| 14 | GOM_TRA_1PNPDE20070613_011744_000000382059_00017_27626_6559.N1 | 13-JUN-2007 01:17:44 | Bright | 37.500 | 98 | 13Zet Oph | 2.5710 | 30000. | 75 | 27626 | No |
| 15 | GOM_TRA_1PNPDE20070613_012713_000000382059_00017_27626_6560.N1 | 13-JUN-2007 01:27:13 | Bright | 38.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 76 | 27626 | No |
| 16 | GOM_TRA_1PNPDE20070613_013020_000000382059_00017_27626_6561.N1 | 13-JUN-2007 01:30:20 | Bright | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75 | 27626 | No |
| 17 | GOM_TRA_1PNPDE20070613_013718_000000372059_00017_27626_6562.N1 | 13-JUN-2007 01:37:18 | Bright | 37.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 74 | 27626 | No |
| 18 | GOM_TRA_1PNPDE20070613_015417_000000582059_00017_27626_6563.N1 | 13-JUN-2007 01:54:17 | Bright | 57.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 115 | 27626 | No |
| 19 | GOM_TRA_1PNPDE20070613_020019_000000402059_00017_27626_6564.N1 | 13-JUN-2007 02:00:19 | Bright | 39.500 | 73 | 57Gam1And | 2.2600 | 13100. | 79 | 27626 | No |
| 20 | GOM_TRA_1PNPDE20070613_020240_000000542059_00017_27626_6565.N1 | 13-JUN-2007 02:02:40 | Twilight | 54.000 | 53 | 43Bet And | 2.0480 | 3300.0 | 108 | 27626 | No |
| 21 | GOM_TRA_1PNPDE20070613_020602_000000462059_00017_27626_6566.N1 | 13-JUN-2007 02:06:02 | Twilight | 46.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 92 | 27626 | No |
| 22 | GOM_TRA_1PNPDE20070613_022109_000000512059_00017_27626_6706.N1 | 13-JUN-2007 02:21:09 | Dark | 51.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 102 | 27626 | No |
| 23 | GOM_TRA_1PNPDE20070613_022732_000000462059_00017_27626_6707.N1 | 13-JUN-2007 02:27:32 | Dark | 45.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 91 | 27626 | No |
| 24 | GOM_TRA_1PNPDE20070613_023336_000000602059_00018_27627_6708.N1 | 13-JUN-2007 02:33:36 | Dark | 60.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 120 | 27627 | No |
| 25 | GOM_TRA_1PNPDE20070613_023538_000000472059_00018_27627_6709.N1 | 13-JUN-2007 02:35:38 | Dark | 46.500 | 31 | Alp Gru | 1.7340 | 15200. | 93 | 27627 | No |
| 26 | GOM_TRA_1PNPDE20070613_023945_000000432059_00018_27627_6710.N1 | 13-JUN-2007 02:39:45 | Straylight | 43.000 | 45 | Alp Pav | 1.9400 | 26000. | 86 | 27627 | No |
| 27 | GOM_TRA_1PNPDE20070613_024808_000000442059_00018_27627_6711.N1 | 13-JUN-2007 02:48:08 | Twilight | 43.500 | 40 | The Sco | 1.8590 | 7100.0 | 87 | 27627 | No |
| 28 | GOM_TRA_1PNPDE20070613_024952_000000442059_00018_27627_6712.N1 | 13-JUN-2007 02:49:52 | Twilight | 44.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 88 | 27627 | No |
| 29 | GOM_TRA_1PNPDE20070613_025114_000000502059_00018_27627_6713.N1 | 13-JUN-2007 02:51:14 | Twilight | 49.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 99 | 27627 | No |
| 30 | GOM_TRA_1PNPDE20070613_025636_000000402059_00018_27627_6714.N1 | 13-JUN-2007 02:56:36 | Bright | 40.000 | 86 | 35Eta Oph | 2.4300 | 10200. | 80 | 27627 | No |
| 31 | GOM_TRA_1PNPDE20070613_025820_000000372059_00018_27627_6715.N1 | 13-JUN-2007 02:58:20 | Bright | 37.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 74 | 27627 | No |
| 32 | GOM_TRA_1PNPDE20070613_030749_000000382059_00018_27627_6716.N1 | 13-JUN-2007 03:07:49 | Bright | 38.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 76 | 27627 | No |
| 33 | GOM_TRA_1PNPDE20070613_031056_000000372059_00018_27627_6717.N1 | 13-JUN-2007 03:10:56 | Bright | 37.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 74 | 27627 | No |
| 34 | GOM_TRA_1PNPDE20070613_031754_000000412059_00018_27627_6718.N1 | 13-JUN-2007 03:17:54 | Bright | 40.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 81 | 27627 | No |
| 35 | GOM_TRA_1PNPDE20070613_033453_000000392059_00018_27627_6848.N1 | 13-JUN-2007 03:34:53 | Bright | 39.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 78 | 27627 | No |
| 36 | GOM_TRA_1PNPDE20070613_034055_000000392059_00018_27627_6849.N1 | 13-JUN-2007 03:40:55 | Bright | 38.500 | 73 | 57Gam1And | 2.2600 | 13100. | 77 | 27627 | No |
| 37 | GOM_TRA_1PNPDE20070613_034316_000000632059_00018_27627_6850.N1 | 13-JUN-2007 03:43:16 | Twilight | 63.000 | 53 | 43Bet And | 2.0480 | 3300.0 | 126 | 27627 | No |
| 38 | GOM_TRA_1PNPDE20070613_034638_000000472059_00018_27627_6851.N1 | 13-JUN-2007 03:46:38 | Twilight | 47.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 94 | 27627 | No |
| 39 | GOM_TRA_1PNPDE20070613_040146_000000522059_00018_27627_6852.N1 | 13-JUN-2007 04:01:46 | Dark | 52.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 104 | 27627 | No |
| 40 | GOM_TRA_1PNPDE20070613_040809_000000442059_00018_27627_6853.N1 | 13-JUN-2007 04:08:09 | Dark | 43.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 87 | 27627 | No |
| 41 | GOM_TRA_1PNPDE20070613_041413_000000562059_00019_27628_6854.N1 | 13-JUN-2007 04:14:13 | Dark | 56.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 112 | 27628 | No |
| 42 | GOM_TRA_1PNPDE20070613_041615_000000482059_00019_27628_6855.N1 | 13-JUN-2007 04:16:15 | Dark | 47.500 | 31 | Alp Gru | 1.7340 | 15200. | 95 | 27628 | No |
| 43 | GOM_TRA_1PNPDE20070613_042022_000000432059_00019_27628_6856.N1 | 13-JUN-2007 04:20:22 | Straylight | 42.500 | 45 | Alp Pav | 1.9400 | 26000. | 85 | 27628 | No |
| 44 | GOM_TRA_1PNPDE20070613_042844_000000422059_00019_27628_6857.N1 | 13-JUN-2007 04:28:44 | Twilight | 42.000 | 40 | The Sco | 1.8590 | 7100.0 | 84 | 27628 | No |
| 45 | GOM_TRA_1PNPDE20070613_043028_000000422059_00019_27628_6858.N1 | 13-JUN-2007 04:30:28 | Twilight | 42.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 84 | 27628 | No |
| 46 | GOM_TRA_1PNPDE20070613_043150_000000472059_00019_27628_6859.N1 | 13-JUN-2007 04:31:50 | Twilight | 46.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 93 | 27628 | No |
| 47 | GOM_TRA_1PNPDE20070613_043711_000000402059_00019_27628_6860.N1 | 13-JUN-2007 04:37:11 | Bright | 39.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 79 | 27628 | No |
| 48 | GOM_TRA_1PNPDE20070613_043857_000000372059_00019_27628_6861.N1 | 13-JUN-2007 04:38:57 | Bright | 37.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 74 | 27628 | No |
| 49 | GOM_TRA_1PNPDE20070613_044825_000000372059_00019_27628_6862.N1 | 13-JUN-2007 04:48:25 | Bright | 36.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 73 | 27628 | No |
| 50 | GOM_TRA_1PNPDE20070613_045131_000000382059_00019_27628_6863.N1 | 13-JUN-2007 04:51:31 | Bright | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75 | 27628 | No |

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



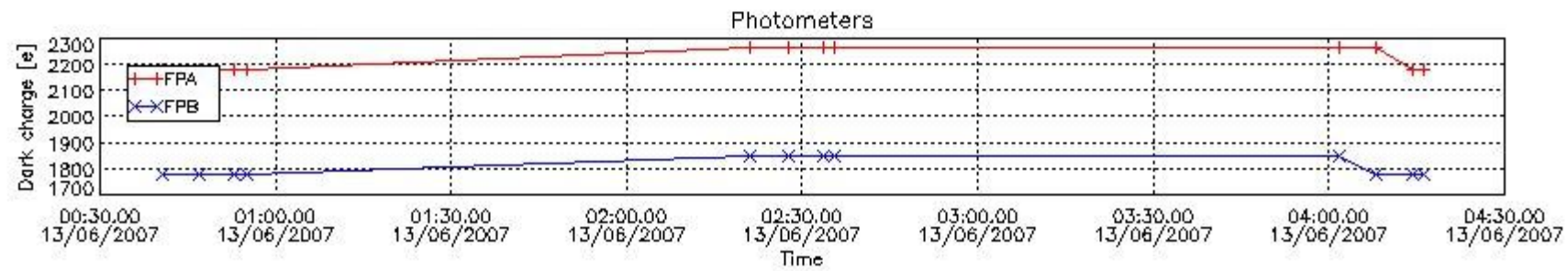
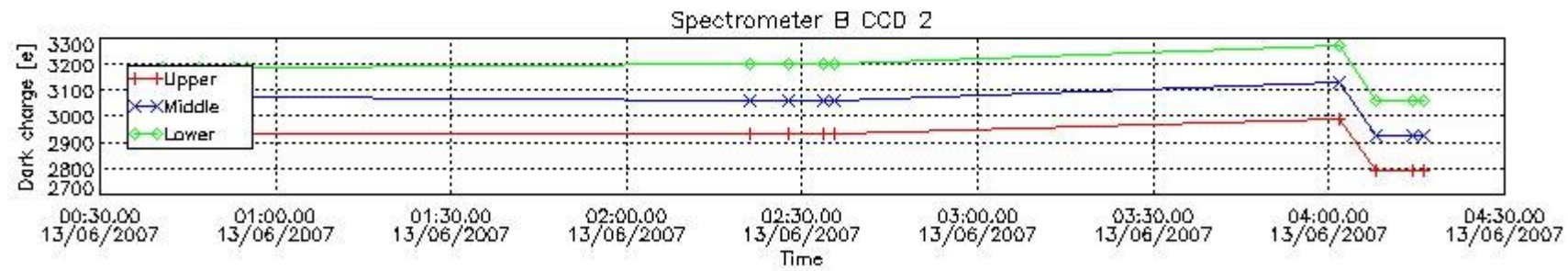
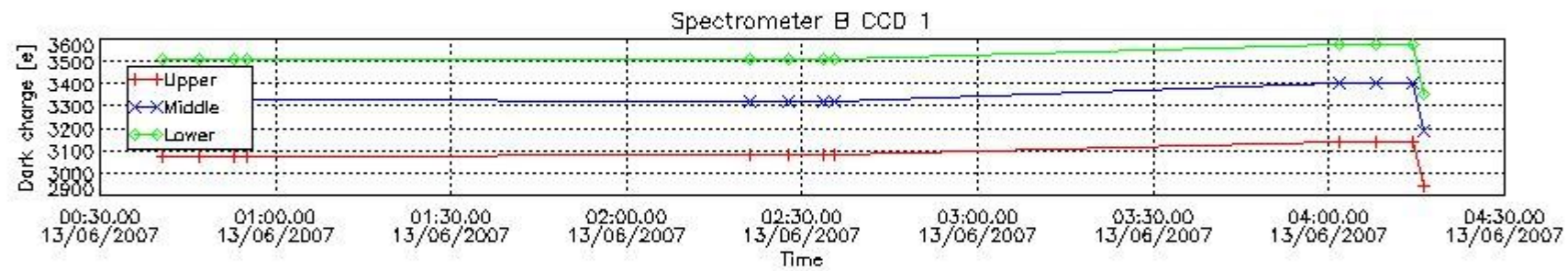
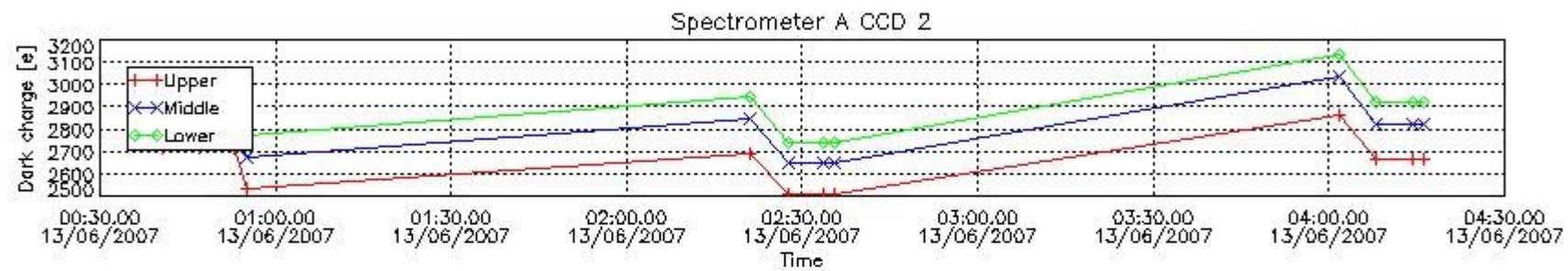
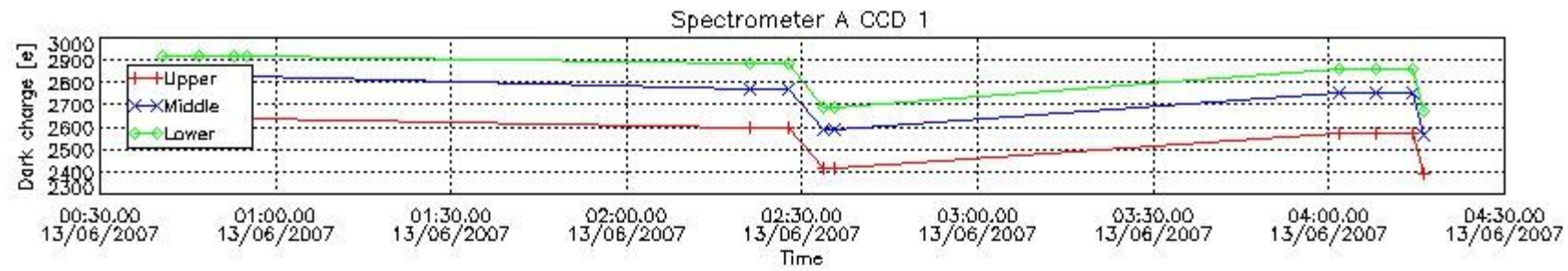
4. Overview of dark signal processing per product

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



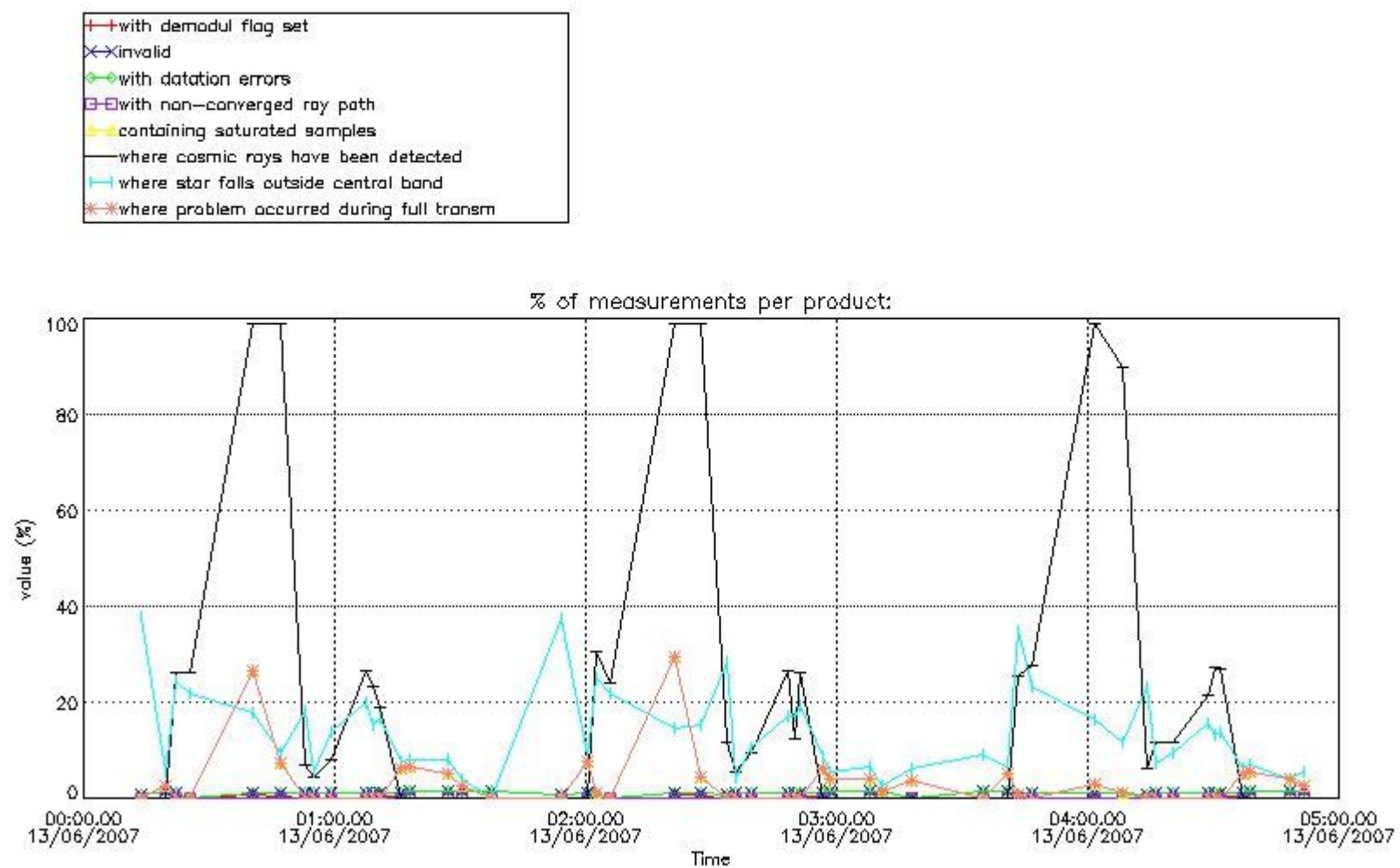
5. Demodulation flag and quality information monitoring

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.

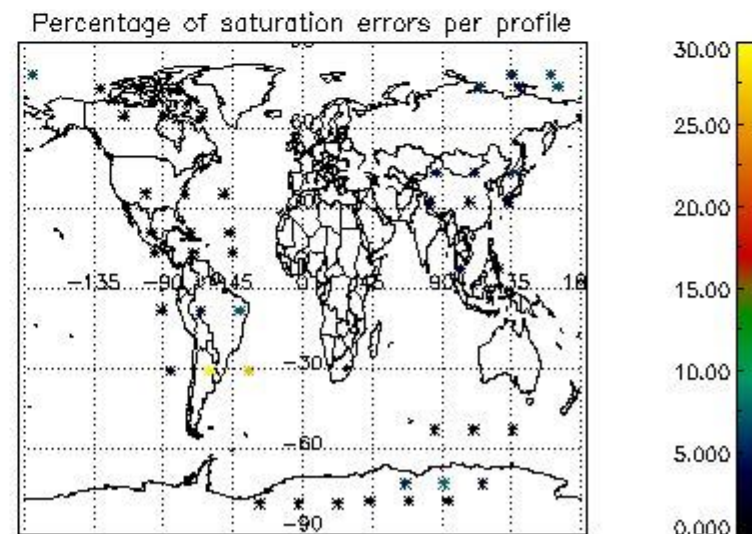
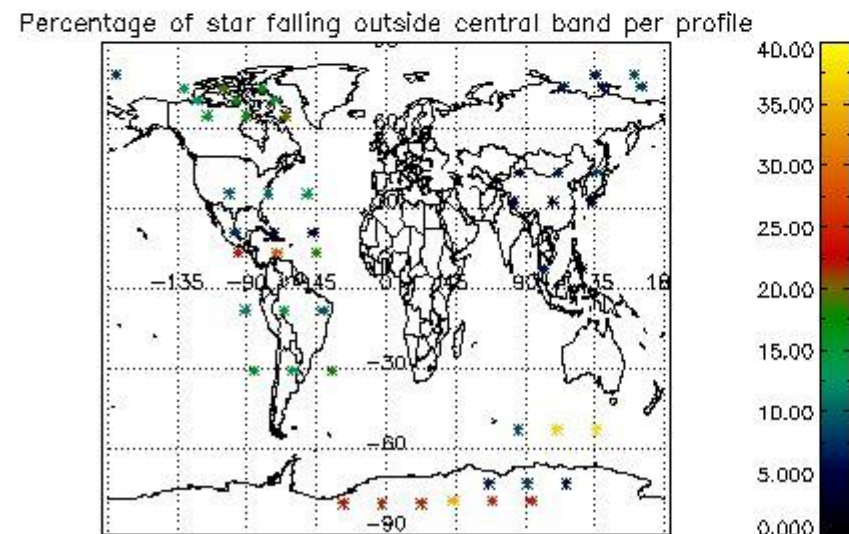
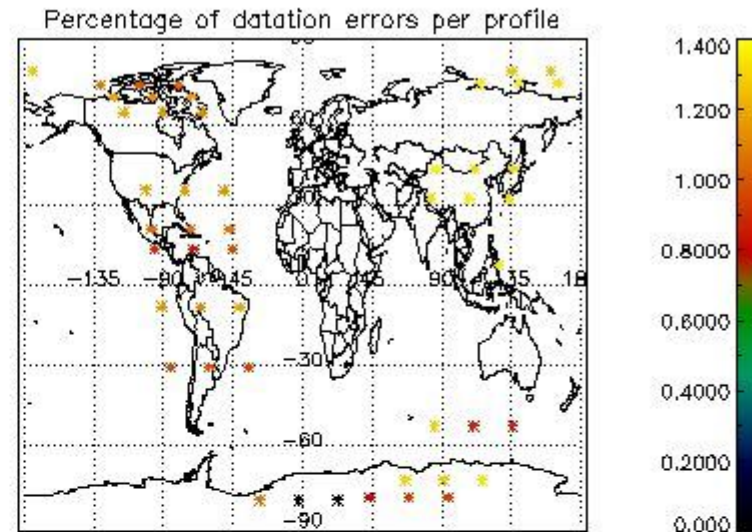
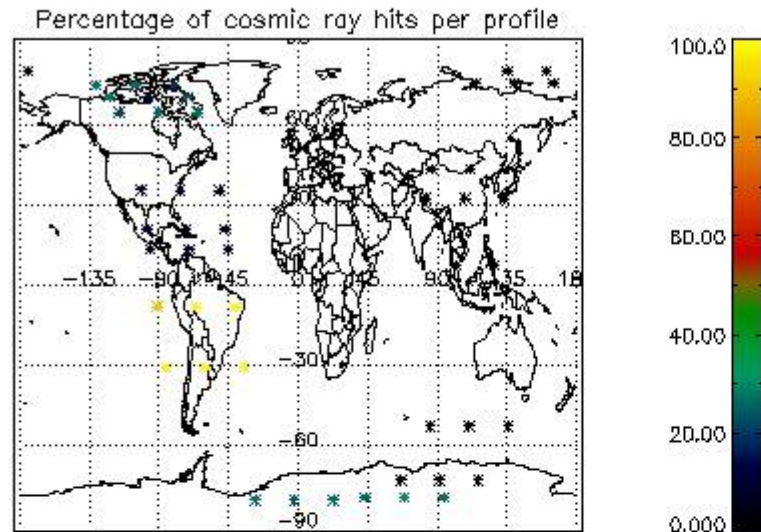
5.1 Percentage of products during reporting period with:

| | |
|-------------------------------------------------------|-----------|
| At least one measurement with demodulation flag set: | 26.0000 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



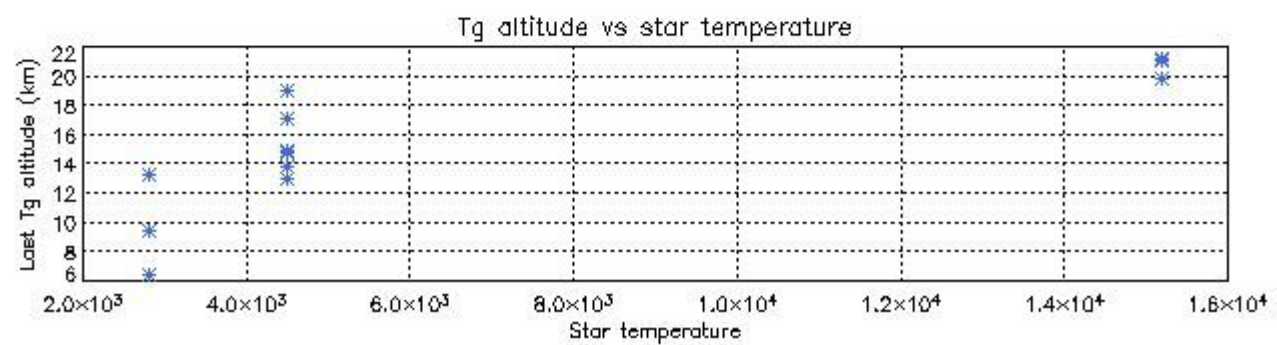
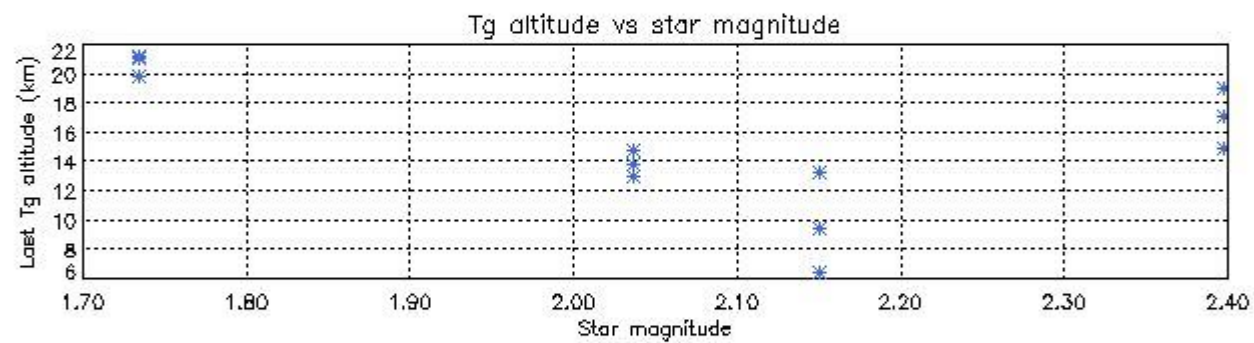
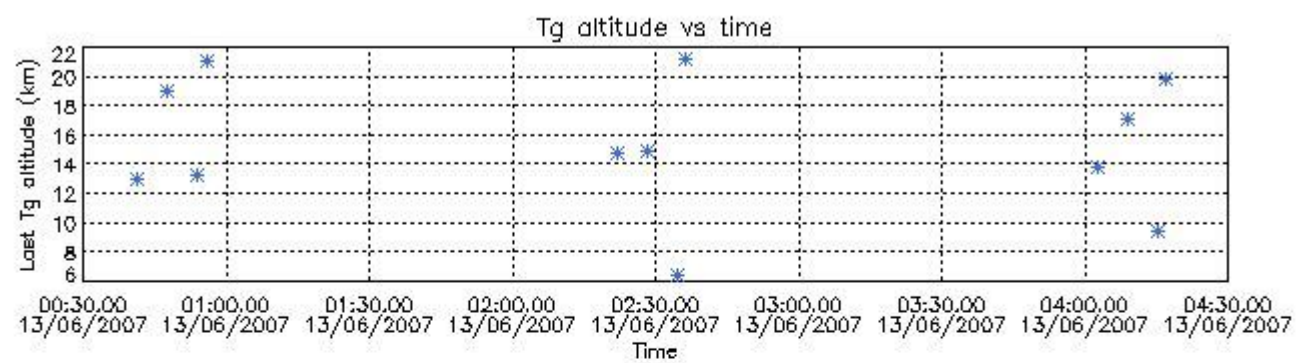
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.295 | 19.599 | 10.979 |
| St. deviation: | 4.5813 | 5.6806 | 0.29796 |
| Maximum: | 21.180 | 27.859 | 11.216 |
| Minimum: | 6.3557 | 3.9205 | 10.644 |
| Number of data: | 12.000 | 20.000 | 3.0000 |

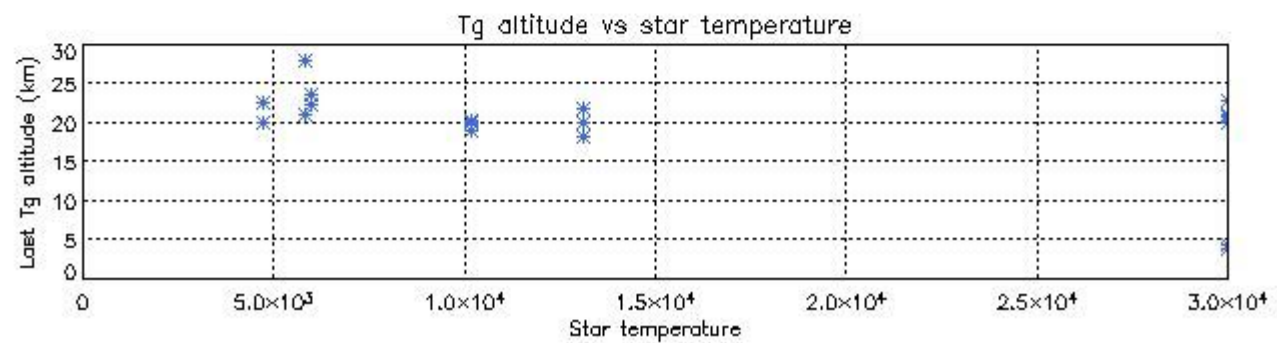
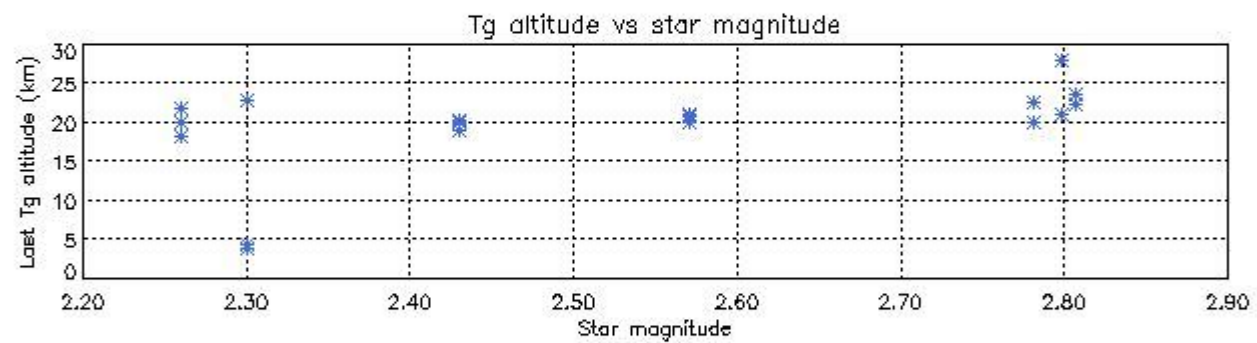
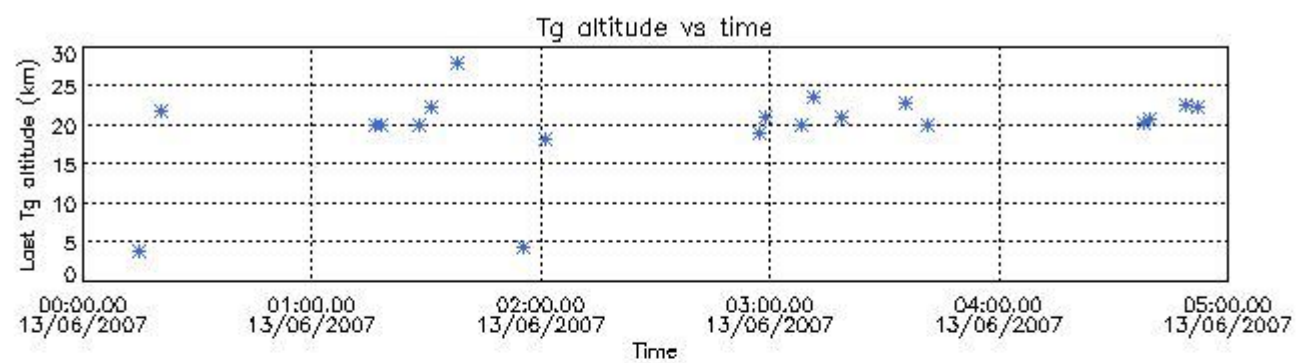
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



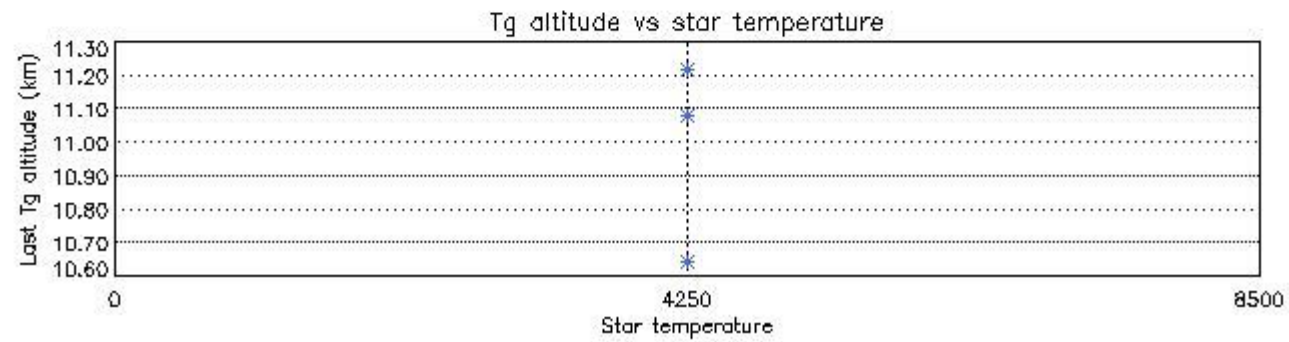
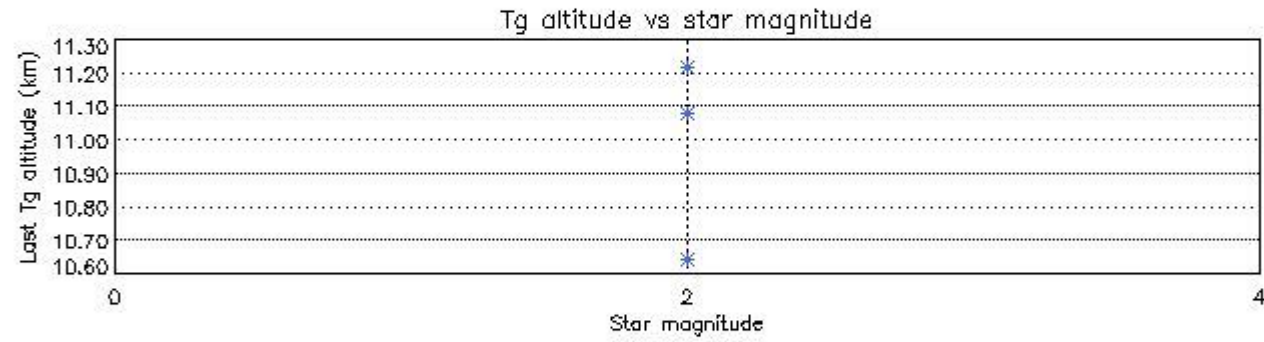
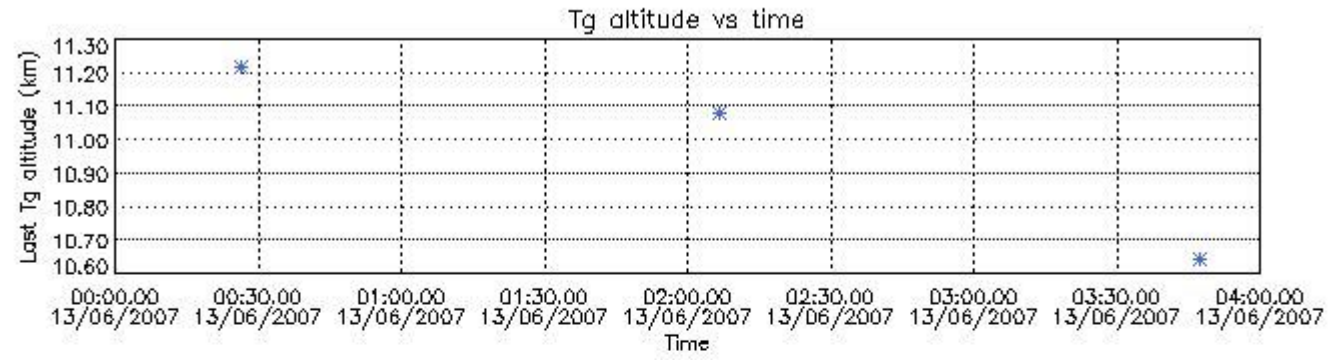
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

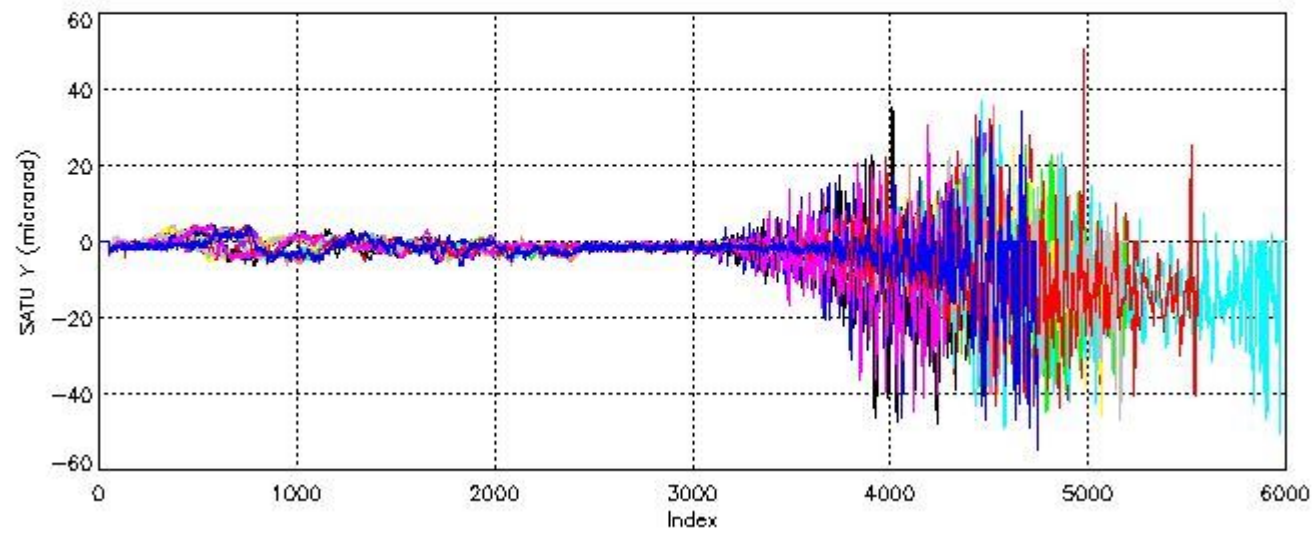
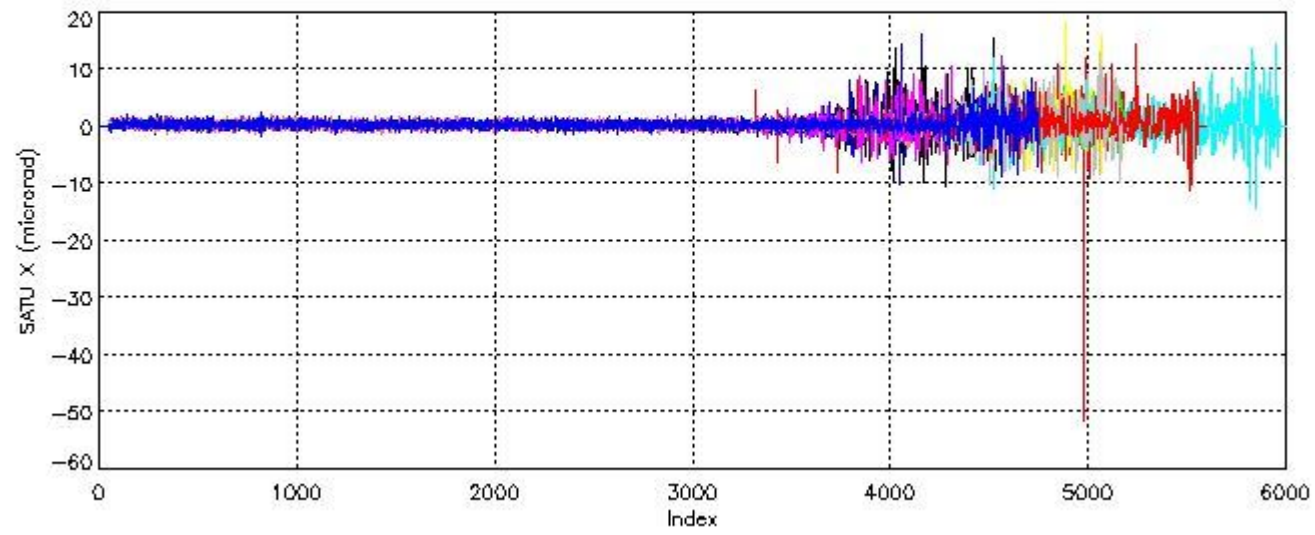


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.33272 | -0.90483 | 0.20507 | -1.1347 |
| St. deviation: | 0.33876 | 2.0404 | 0.80546 | 2.4835 |
| Maximum: | 2.5000 | 4.7000 | 4.0000 | 6.4000 |
| Minimum: | -1.7000 | -6.3000 | -4.3000 | -9.0000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 13500. | 13500. | 17550. | 17550. |
|-----------------|--------|--------|--------|--------|

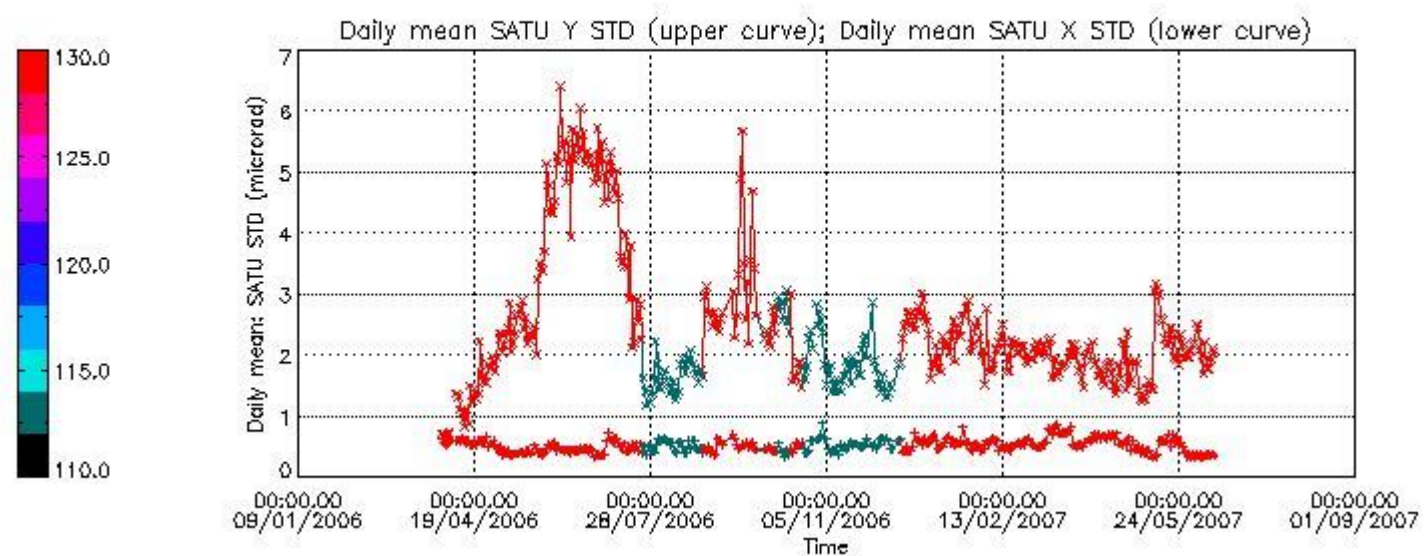
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

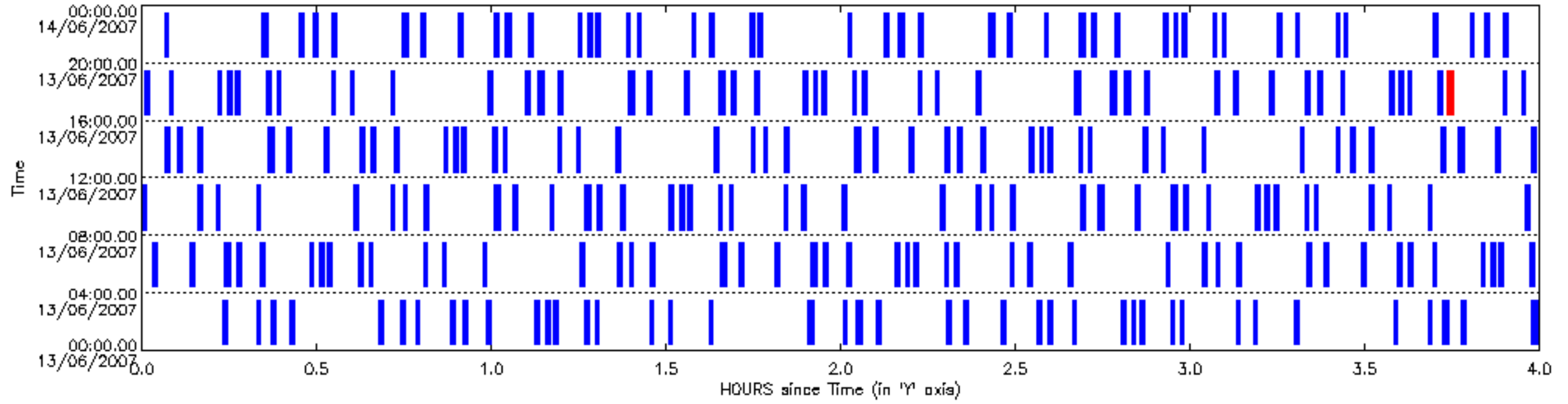
Lower curve: STD of SATU X axis

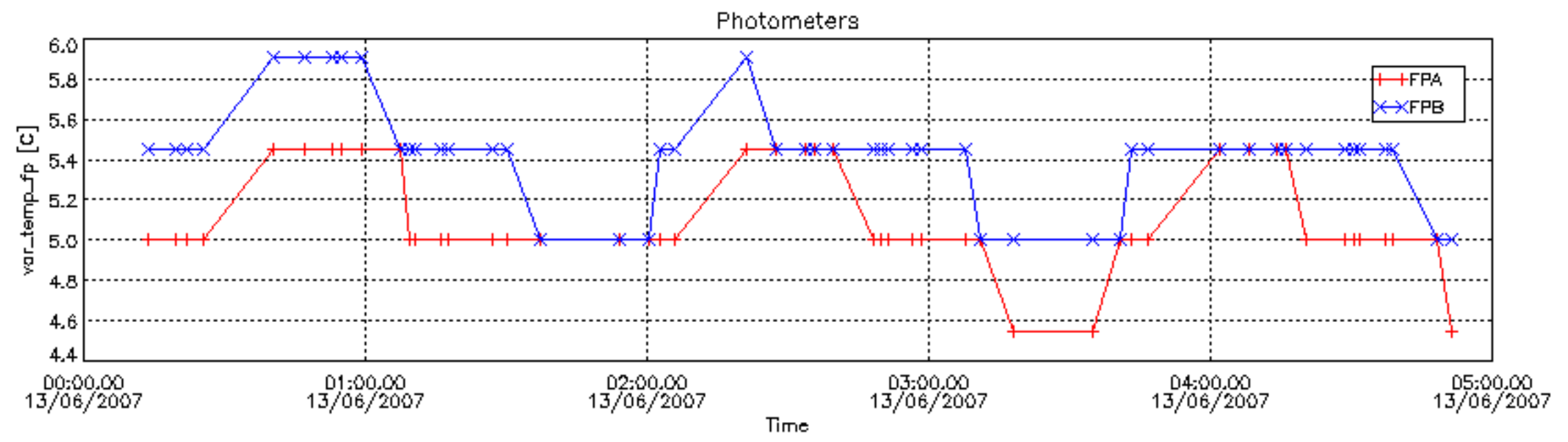
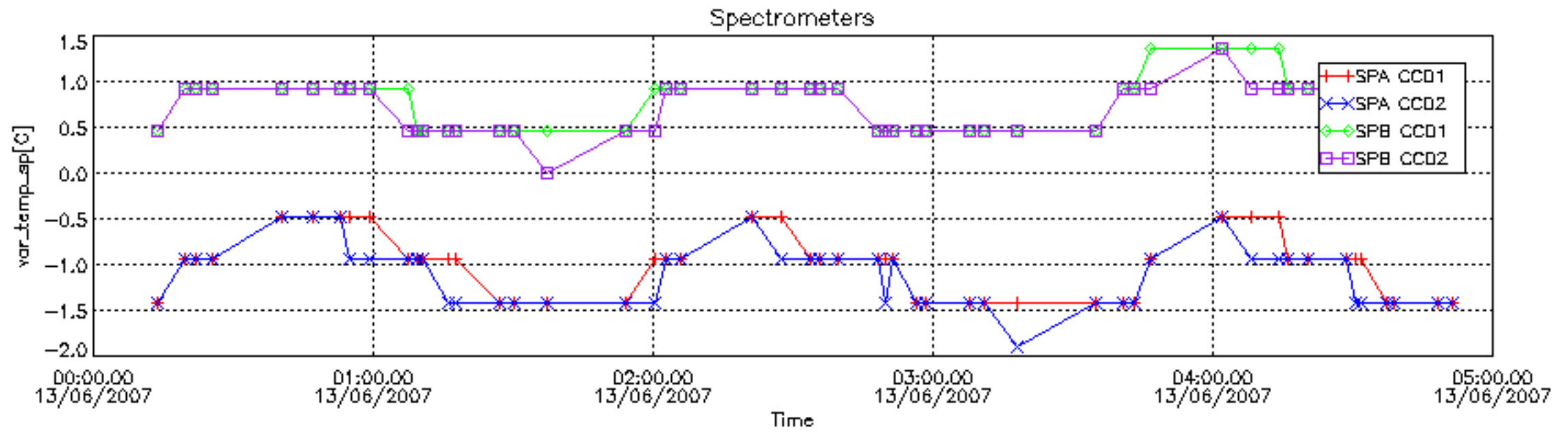


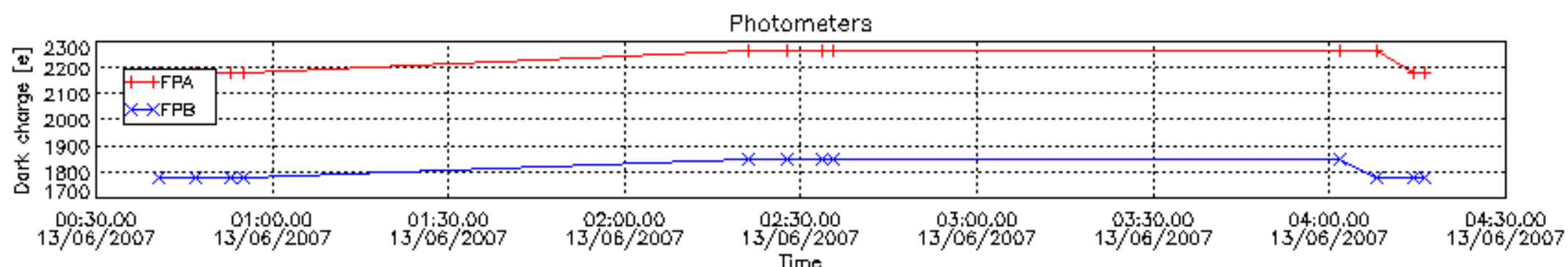
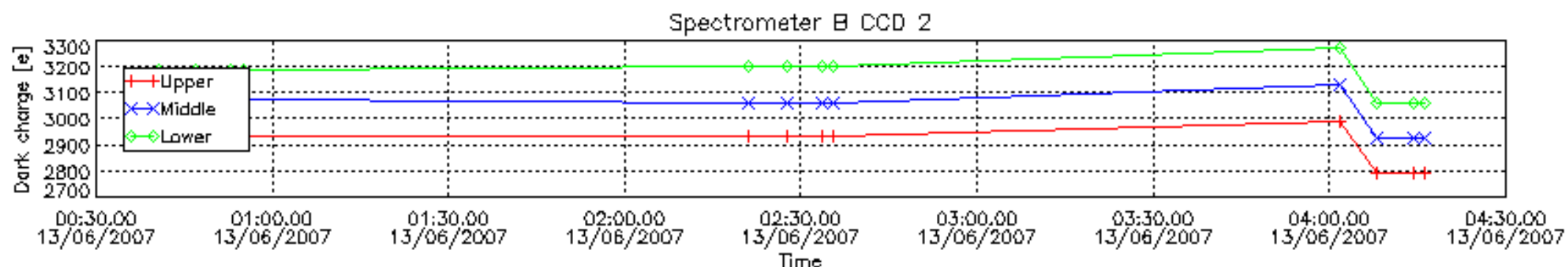
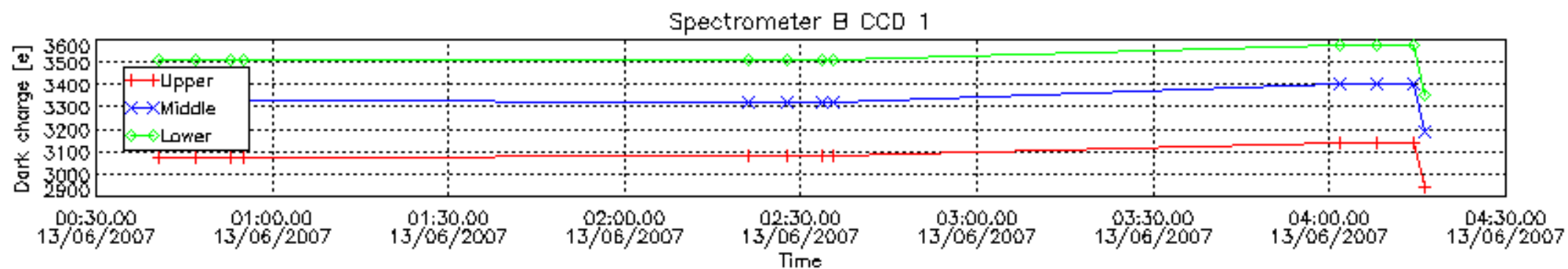
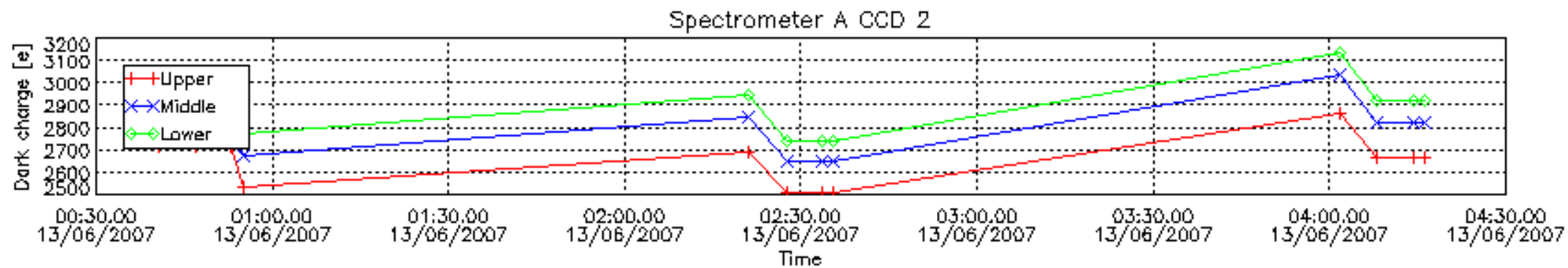
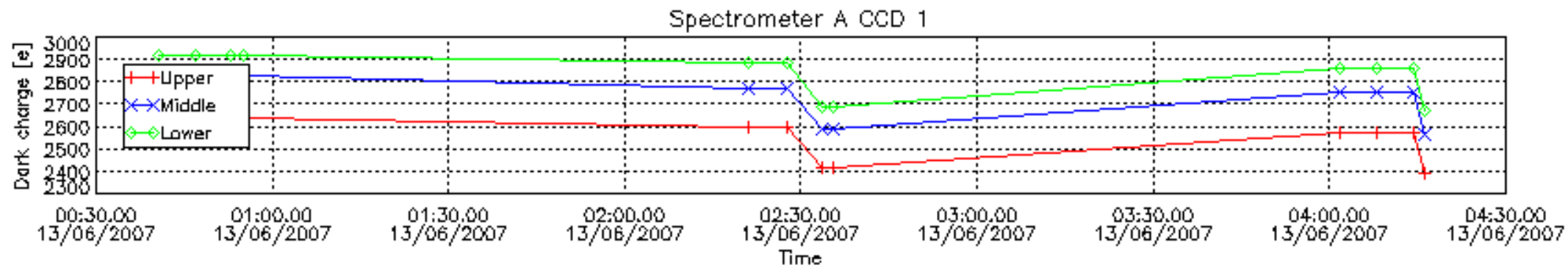
8. Auxiliary Data Files used for the production reported in section 2.4

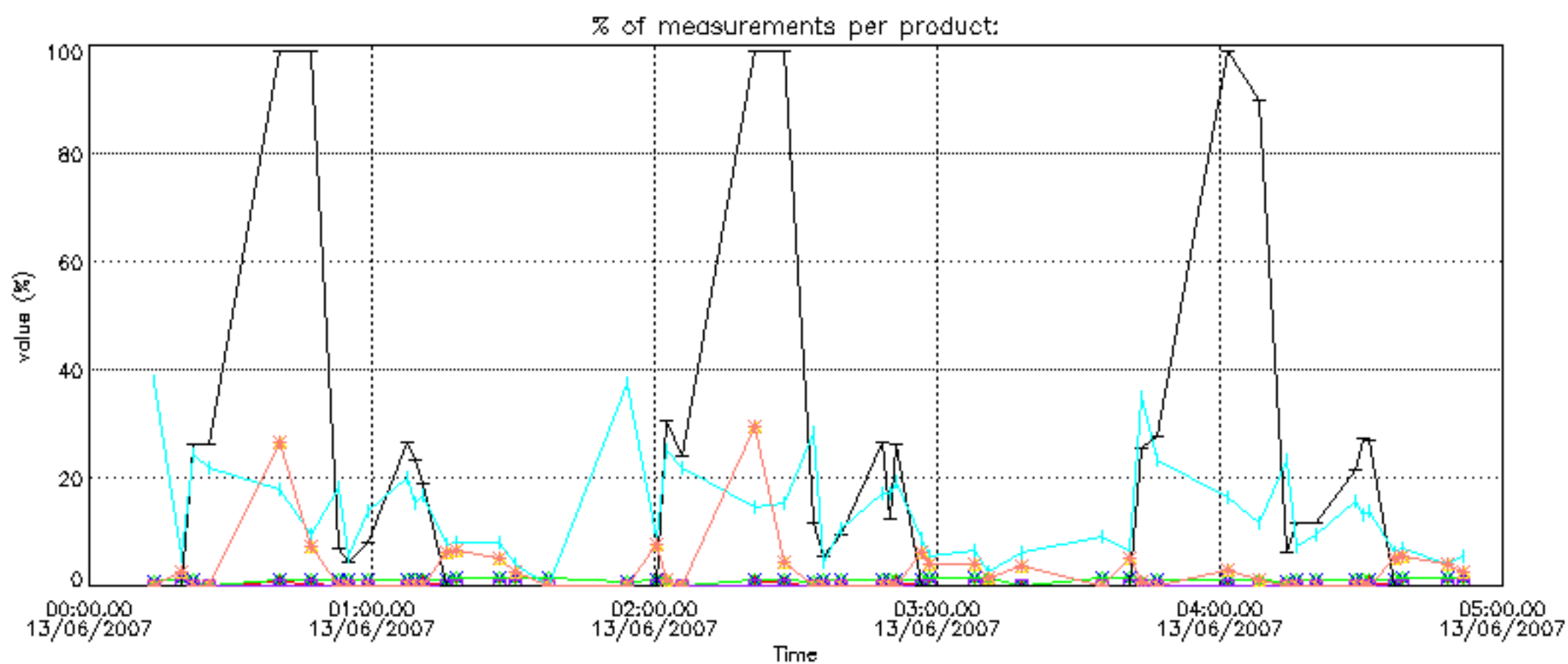
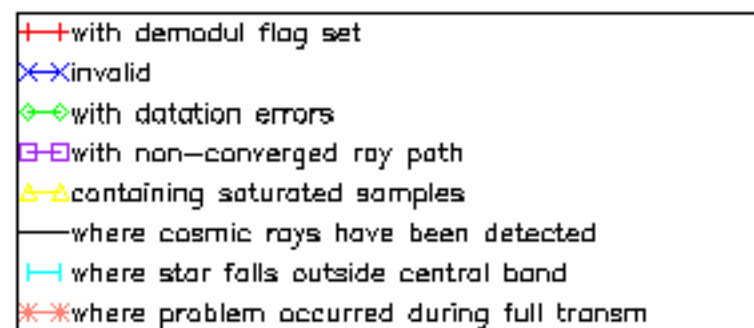
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|----------------------------------------------------------------|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 13-JUN-2007 00:13:41 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000 | 1 | 13-JUN-2007 00:13:41 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 13-JUN-2007 00:13:41 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 13-JUN-2007 00:13:41 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 13-JUN-2007 00:13:41 |
| ECMWF_FILE | AUX_ECF_AXNECM20070612_061111_20070612_210000_20070613_090000 | 1 | 13-JUN-2007 00:13:41 |
| ECMWF_FILE | AUX_ECF_AXNECM20070612_181111_20070613_030000_20070613_150000 | 35 | 13-JUN-2007 03:34:53 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 13-JUN-2007 00:13:41 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070612_211228_000057382059_00014_27623_3678.N1 | 1 | 13-JUN-2007 00:13:41 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070612_225325_000057382059_00015_27624_3679.N1 | 5 | 13-JUN-2007 00:40:32 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070613_003422_000054192059_00016_27625_3680.N1 | 22 | 13-JUN-2007 02:21:09 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070613_021001_000041442059_00017_27626_3681.N1 | 35 | 13-JUN-2007 03:34:53 |

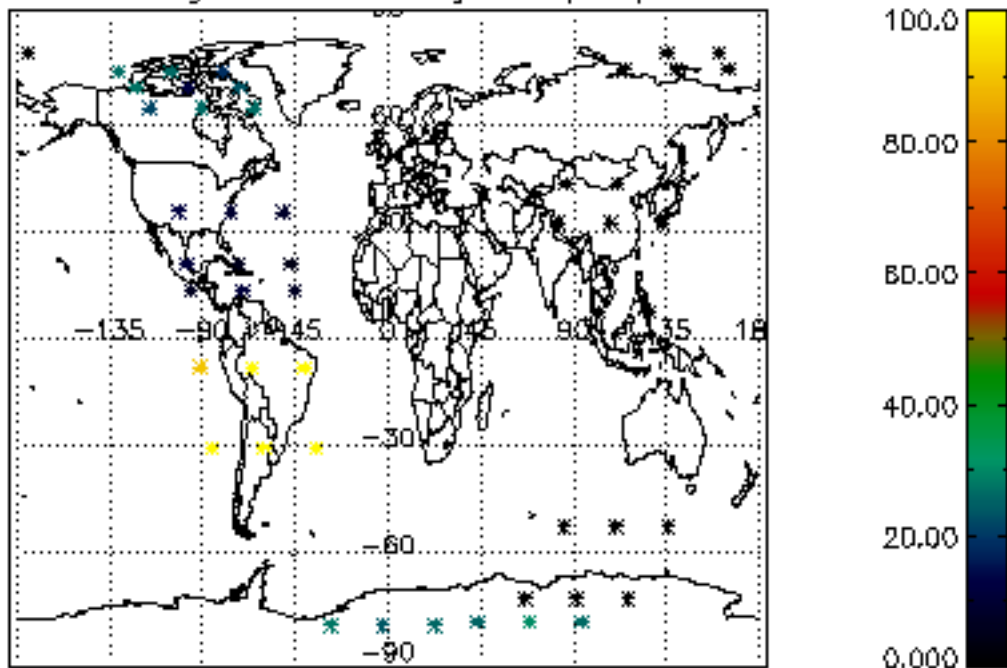




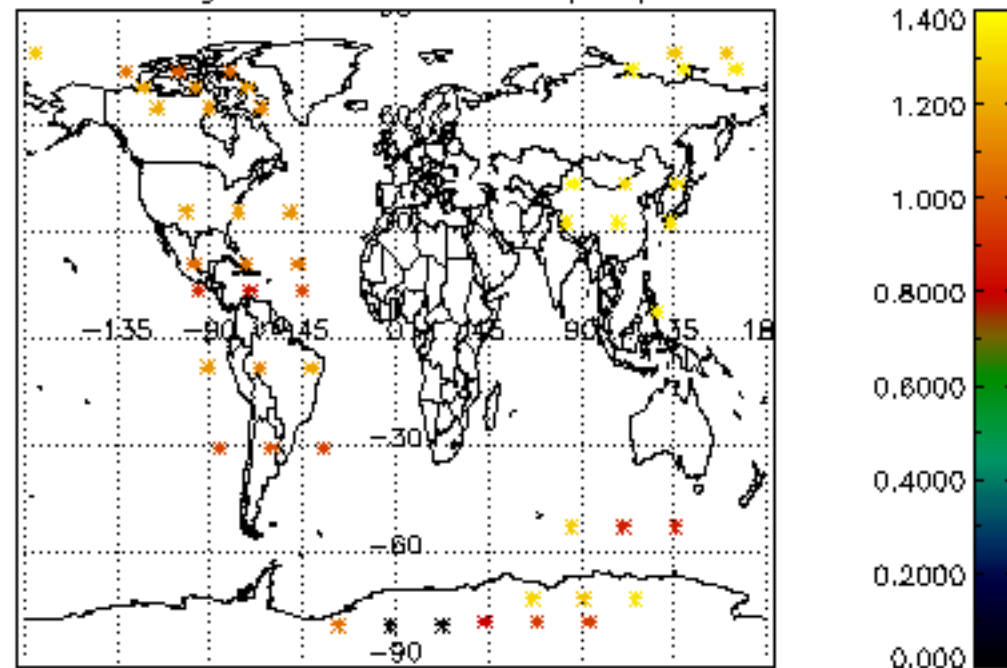




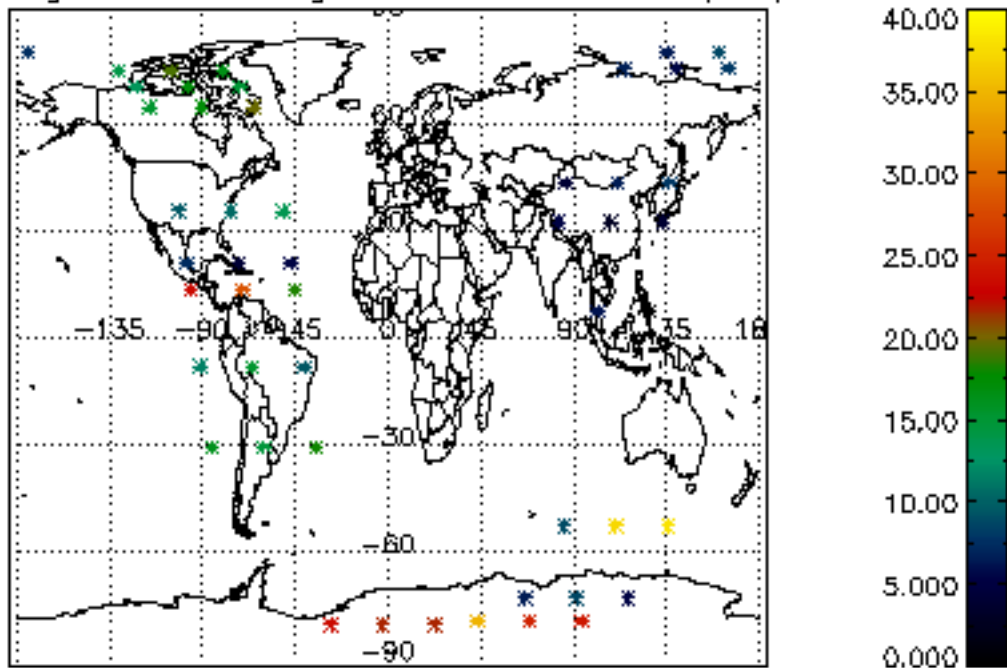
Percentage of cosmic ray hits per profile



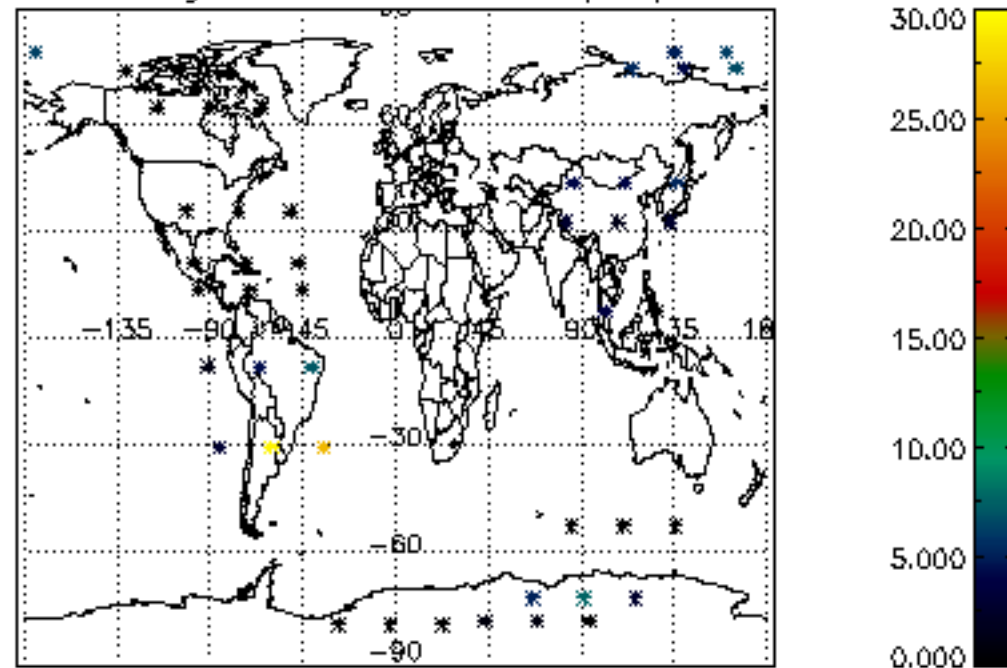
Percentage of datation errors per profile



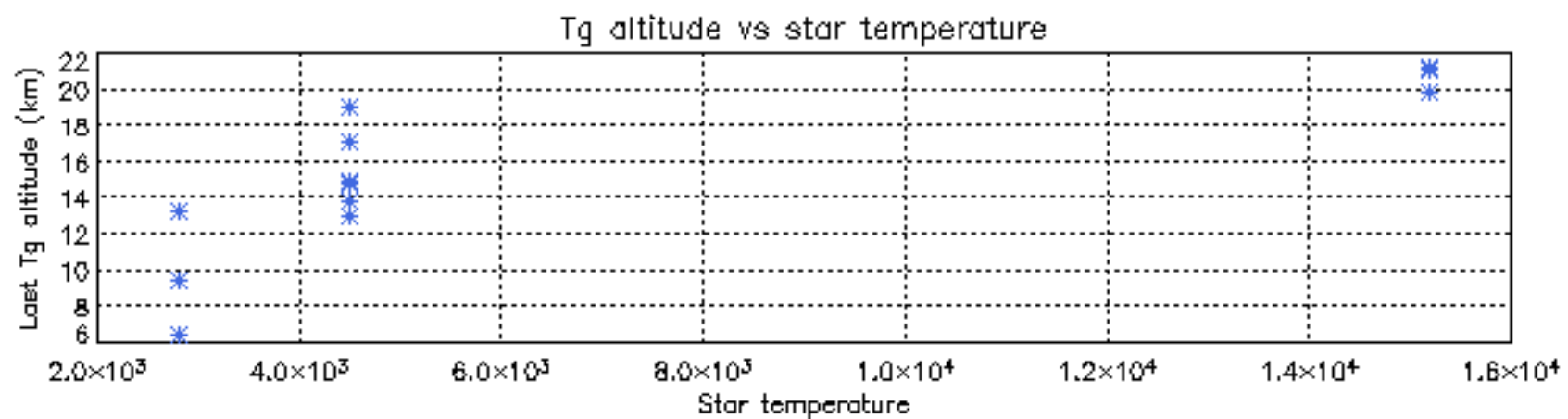
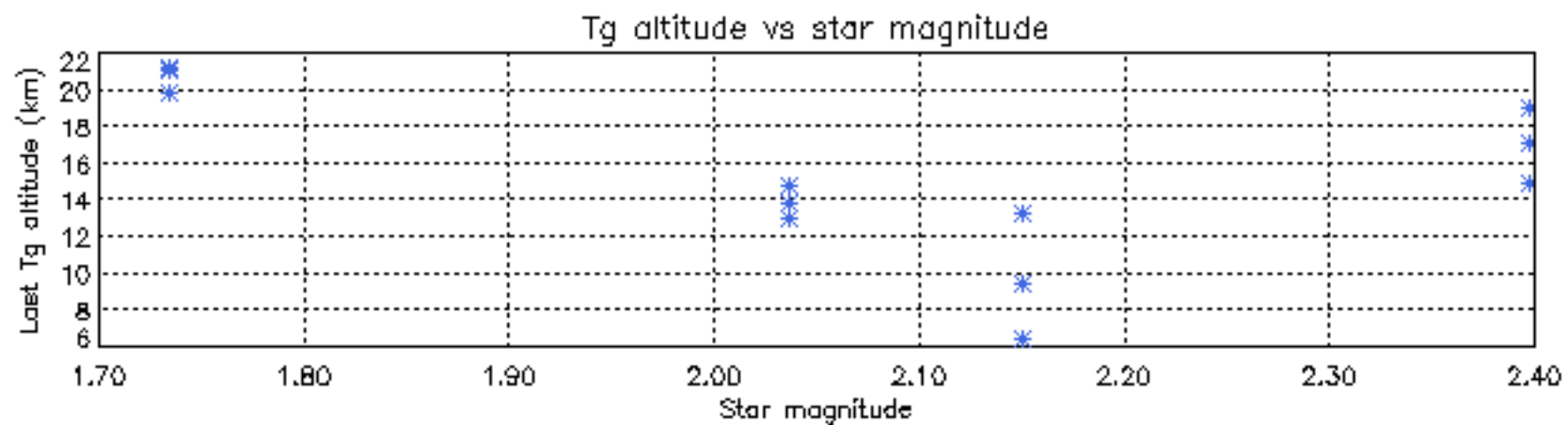
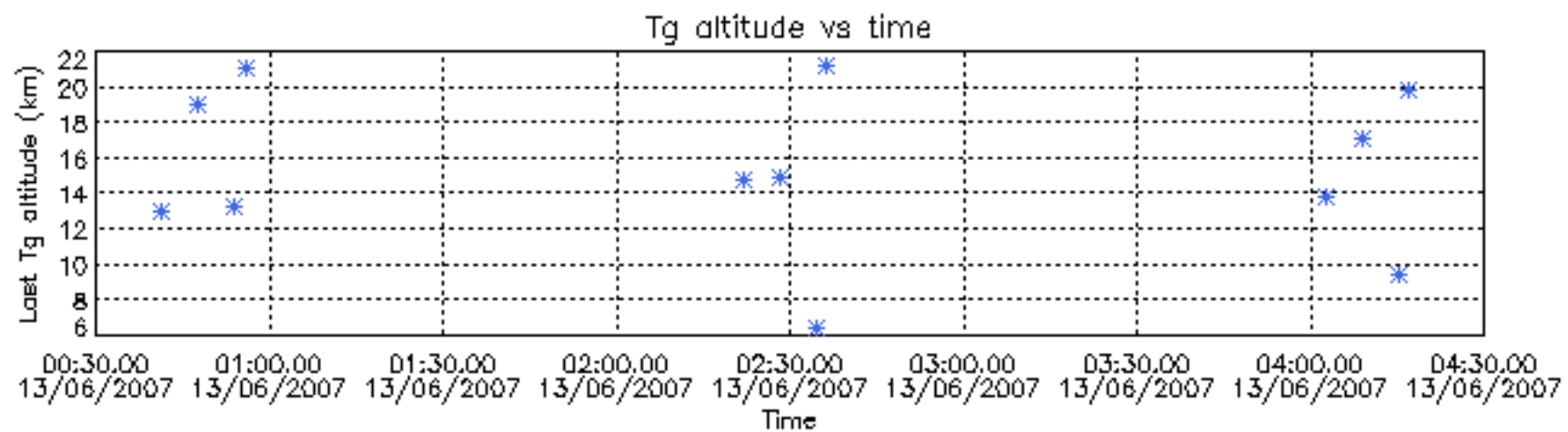
Percentage of star falling outside central band per profile



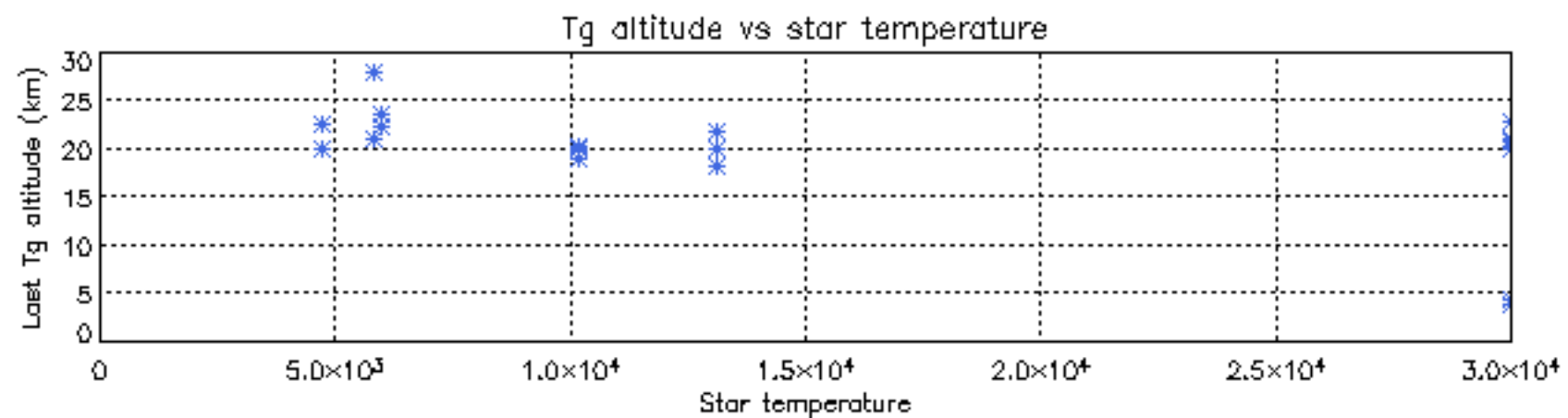
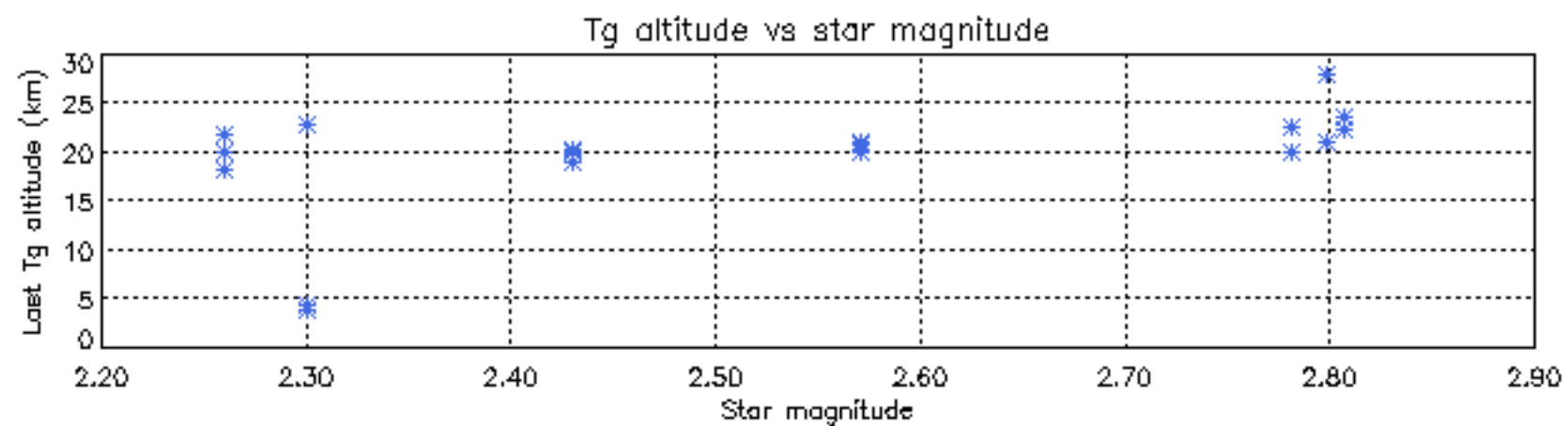
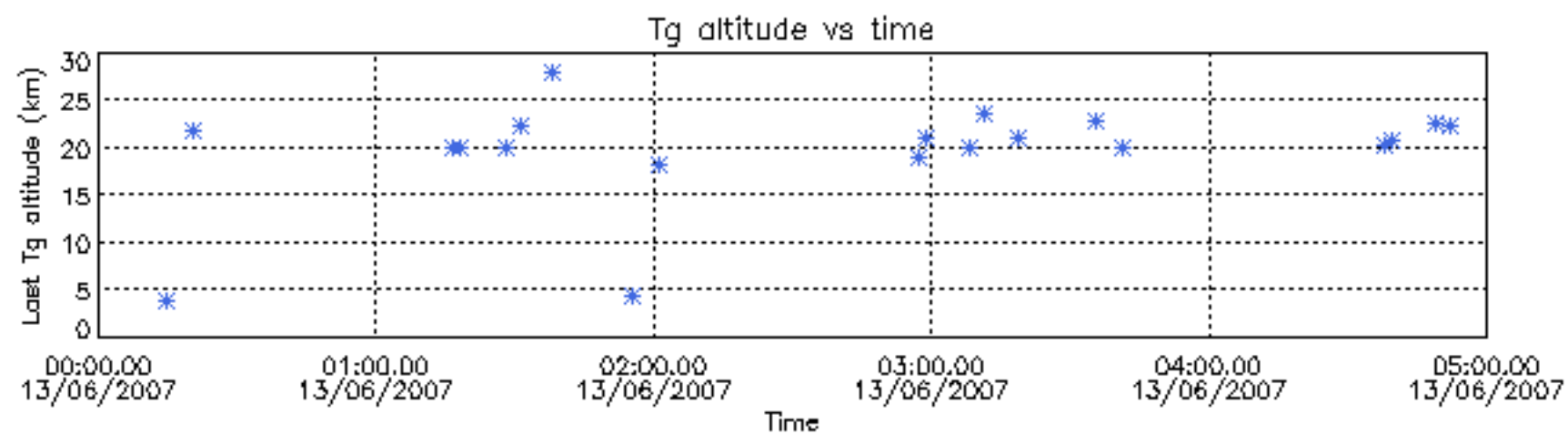
Percentage of saturation errors per profile



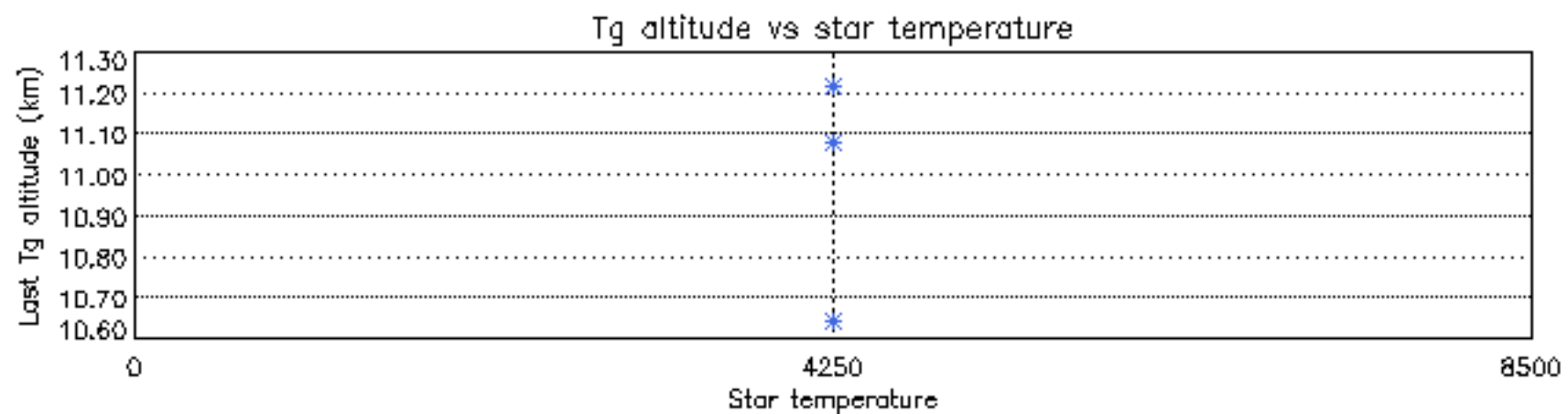
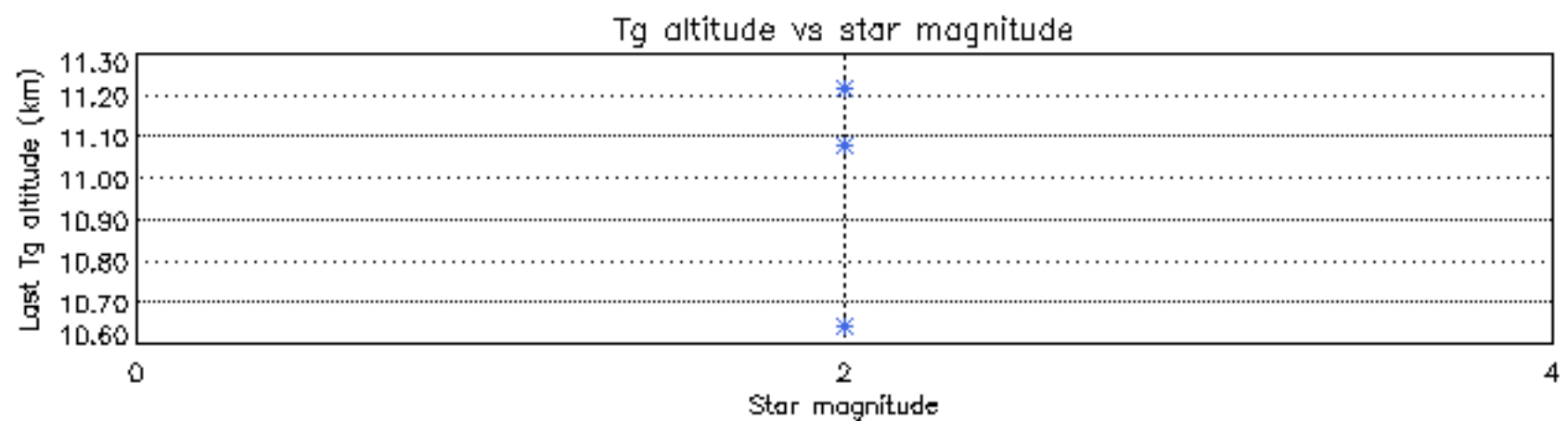
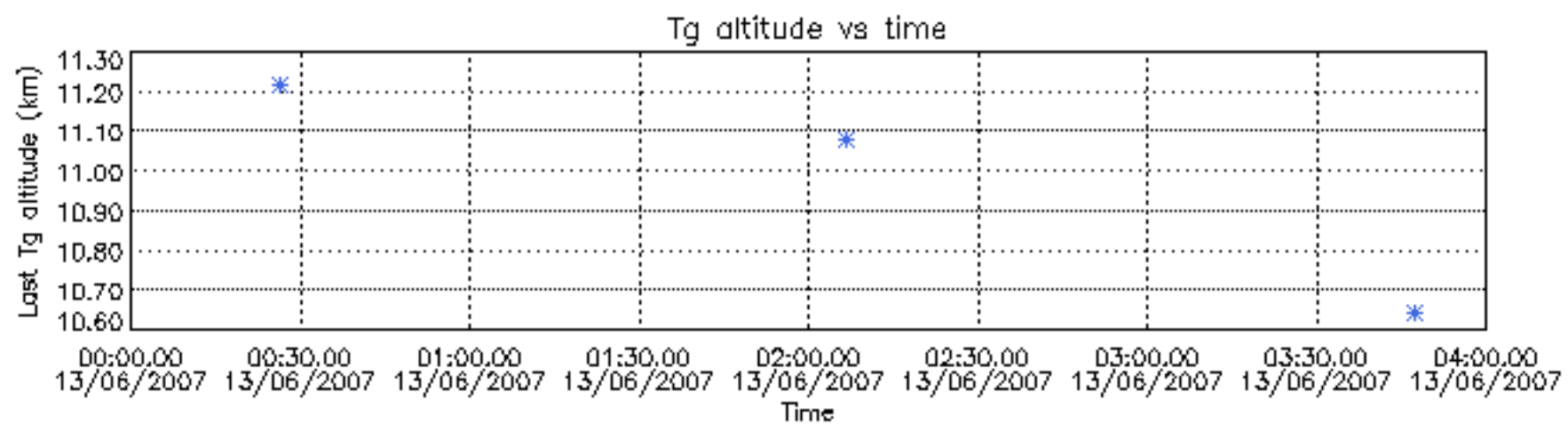
Tangent altitude at which the star is lost

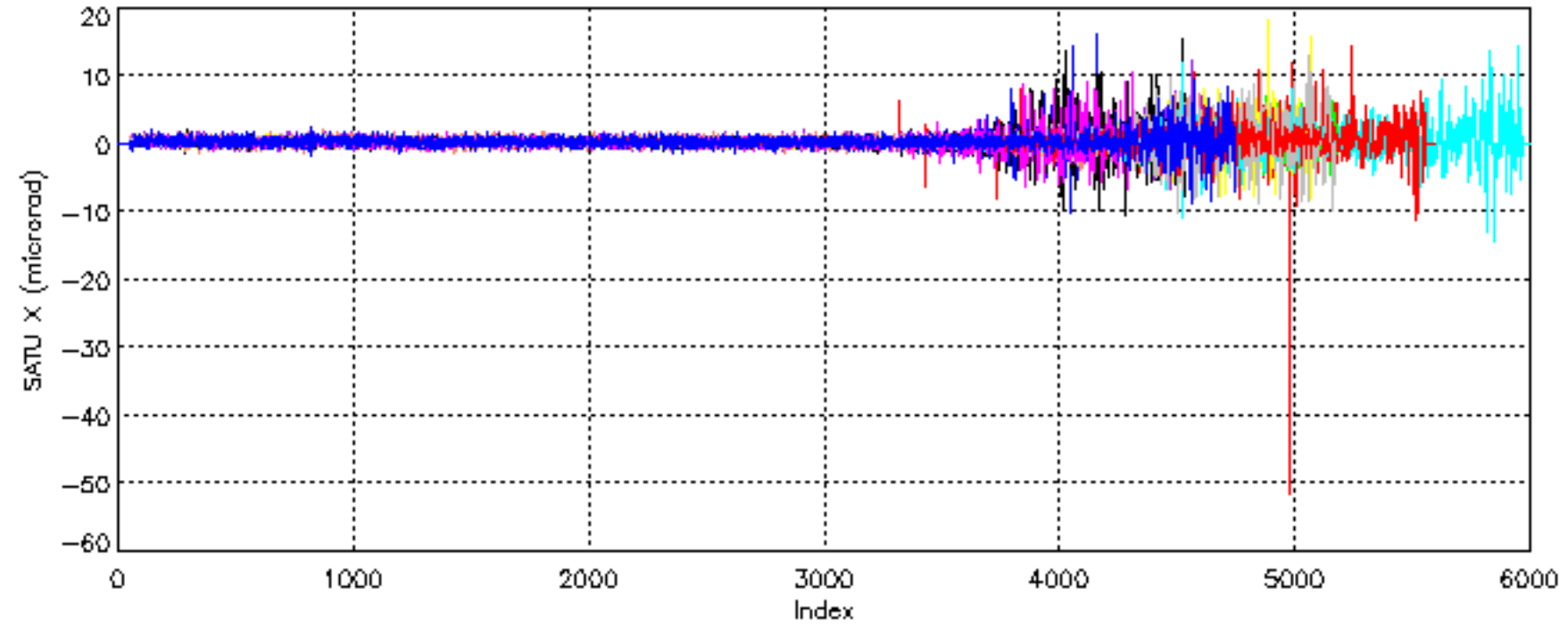


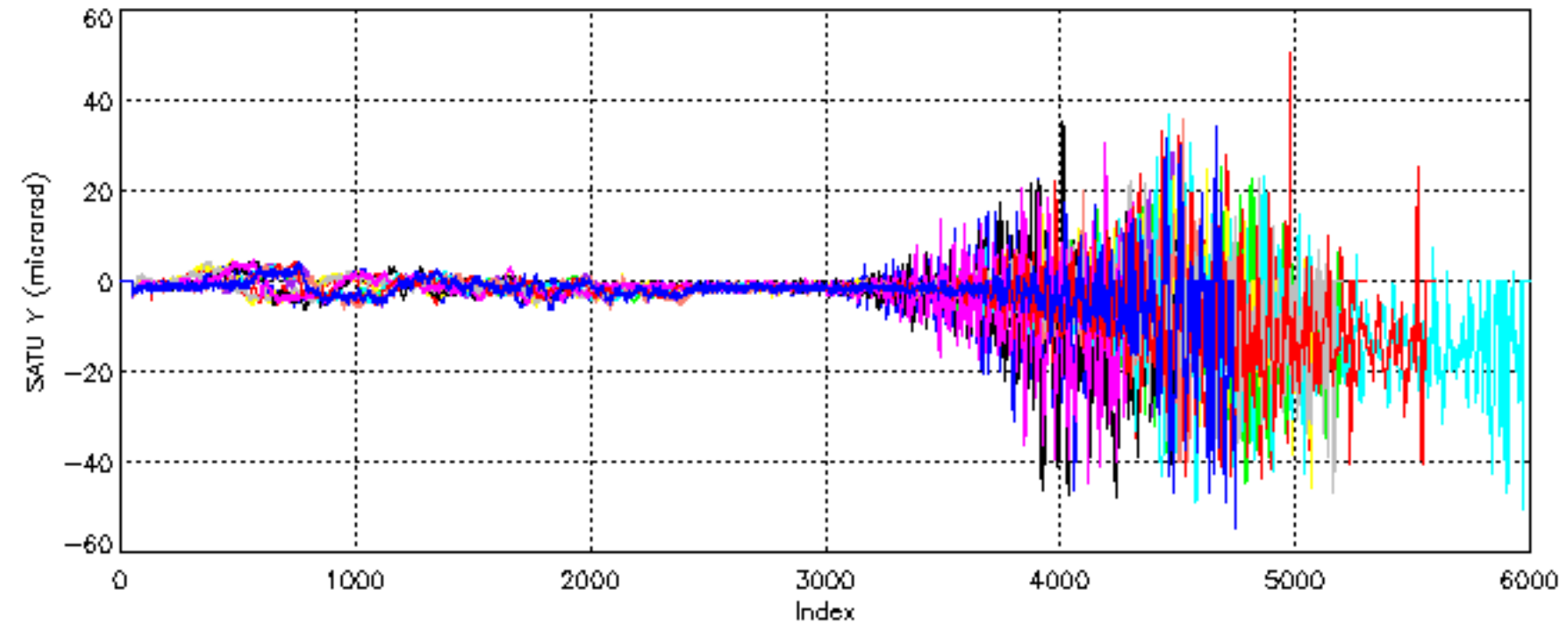
Tangent altitude at which the star is lost

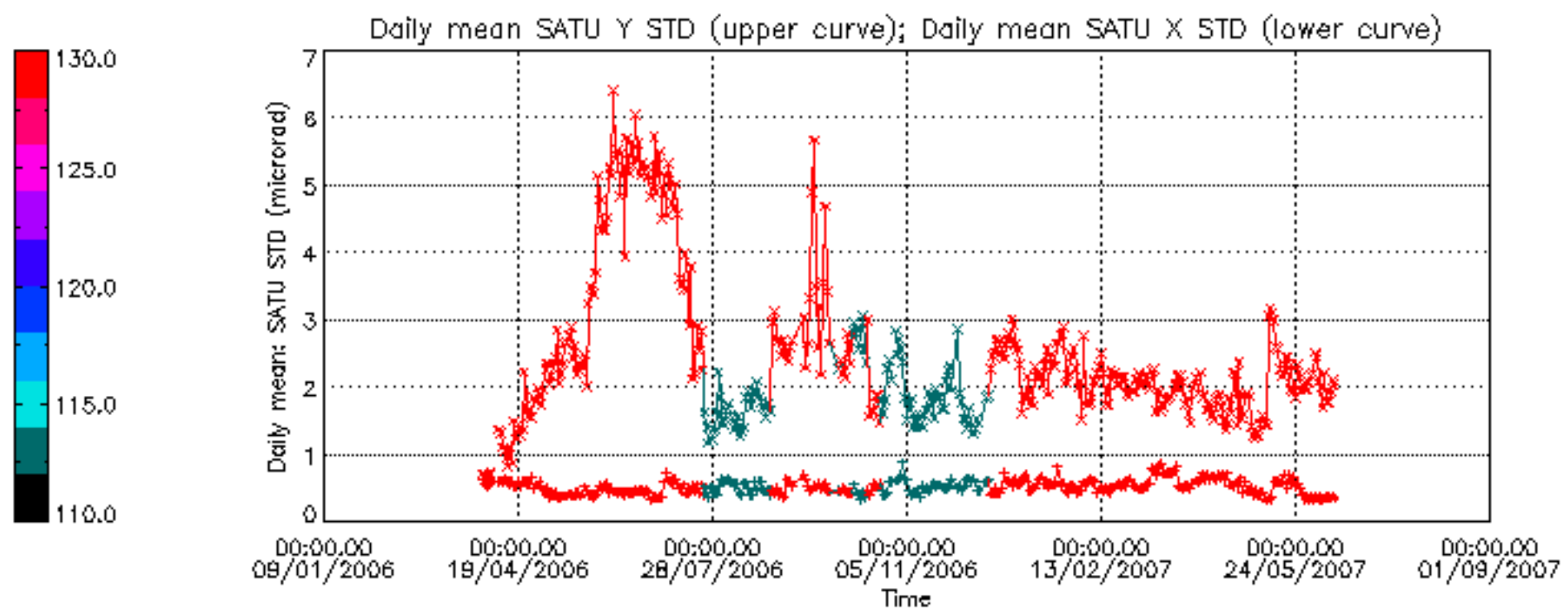


Tangent altitude at which the star is lost









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 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
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 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
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 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
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 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
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 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
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 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
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 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
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 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
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 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
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 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
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 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
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 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
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 16; 2014.5; 03-JUN-2007 21:44:19; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27495
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 6; 512.4; 03-JUN-2007 22:59:53; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27496
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 16; 2014.4; 03-JUN-2007 23:24:55; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27496
 17; 2310.5; 03-JUN-2007 23:29:51; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;27496
 18; 2995.0; 03-JUN-2007 23:41:15; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;27496
 19; 3165.3; 03-JUN-2007 23:44:06; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27496
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 22; 4397.8; 04-JUN-2007 00:04:38; Bright; 57.5; 53; 43Bet And ; 2.05; 3300;occ; 115; 0;27496

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6; 3395.3; 03-JUN-2007 10:23:08; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27488
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6; 3395.2; 03-JUN-2007 12:03:44; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27489
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| 2; | -347.0; | 06-JUN-2007 | 21:10:43; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 27537 |
| 3; | -196.2; | 06-JUN-2007 | 21:13:13; | Dark | ; | 46.5; | 84; | Alp | Phe | ; | 2.40; | 4500; | occ; | 93; | 0; | 27537 |
| 4; | 145.6; | 06-JUN-2007 | 21:18:55; | Dark | ; | 50.0; | 63; | Bet | Gru | ; | 2.15; | 2800; | occ; | 100; | 0; | 27538 |
| 5; | 263.6; | 06-JUN-2007 | 21:20:53; | Dark | ; | 47.0; | 31; | Alp | Gru | ; | 1.73; | 15200; | occ; | 94; | 0; | 27538 |
| 6; | 540.6; | 06-JUN-2007 | 21:25:30; | Dark | ; | 44.0; | 45; | Alp | Pav | ; | 1.94; | 26000; | occ; | 88; | 0; | 27538 |
| 7; | 887.7; | 06-JUN-2007 | 21:31:17; | Dark | ; | 39.0; | 141; | Bet | Ara | ; | 2.84; | 4600; | occ; | 78; | 0; | 27538 |
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| 9; | 1068.6; | 06-JUN-2007 | 21:34:18; | Dark | ; | 45.0; | 40; | The | Sco | ; | 1.86; | 7100; | occ; | 90; | 0; | 27538 |
| 10; | 1174.6; | 06-JUN-2007 | 21:36:04; | Dark | ; | 46.0; | 25; | 35Lam | Sco | ; | 1.62; | 28000; | occ; | 92; | 0; | 27538 |
| 11; | 1272.7; | 06-JUN-2007 | 21:37:42; | Dark | ; | 45.0; | 75; | 26Eps | Sco | ; | 2.29; | 4250; | occ; | 90; | 0; | 27538 |
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| 22; | 3446.6; | 06-JUN-2007 | 22:13:56; | Bright; | | 35.5; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 71; | 0; | 27538 |
| 23; | 3920.0; | 06-JUN-2007 | 22:21:50; | Bright; | | 36.0; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 72; | 0; | 27538 |
| 24; | 4262.7; | 06-JUN-2007 | 22:27:32; | Bright; | | 54.0; | 73; | 57Gam1 | And | ; | 2.26; | 13100; | occ; | 108; | 0; | 27538 |
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| 26; | 4648.5; | 06-JUN-2007 | 22:33:58; | Dark | ; | 40.5; | 105; | 6Bet | Ari | ; | 2.64; | 8900; | occ; | 81; | 0; | 27538 |

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| 21; | 3165.2; | 06-JUN-2007 | 23:49:51; | Bright; | | 35.5; | 60; | 7Bet | UMi | ; | 2.08; | 3950; | occ; | 71; | 0; | 27539 |
| 22; | 3446.7; | 06-JUN-2007 | 23:54:32; | Bright; | | 32.0; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 64; | 0; | 27539 |
| 23; | 3919.9; | 07-JUN-2007 | 00:02:25; | Bright; | | 41.5; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 83; | 0; | 27539 |
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 16; 6307.4; 07-JUN-2007 10:45:48; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27545
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 22; 7310.9; 07-JUN-2007 11:02:32; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27545
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13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548
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15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548
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 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27548
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 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
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 4; 2287.6; 10-JUN-2007 14:46:21; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27591
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| 4; | 471.2; | 30-JUN-2007 | 00:22:34; | Dark | ; | 41.5; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 83; | 0; | 27869 |
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14; 3445.5; 30-JUN-2007 19:38:43; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27880
15; 4063.7; 30-JUN-2007 19:49:01; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;27880
16; 4165.8; 30-JUN-2007 19:50:43; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;27880
17; 4973.9; 30-JUN-2007 20:04:12; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;27880
18; 5198.7; 30-JUN-2007 20:07:56; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;27880
19; 5710.8; 30-JUN-2007 20:16:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27880
20; 6068.0; 30-JUN-2007 20:22:26; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;27880
21; 6514.5; 30-JUN-2007 20:29:52; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;27880
22; 6777.4; 30-JUN-2007 20:34:15; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27880

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