

GOMOS Daily Report 16-JUN-2008

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 | 18JUN2008 05:32:19 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (16JUN2008 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (17JUN2008 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)

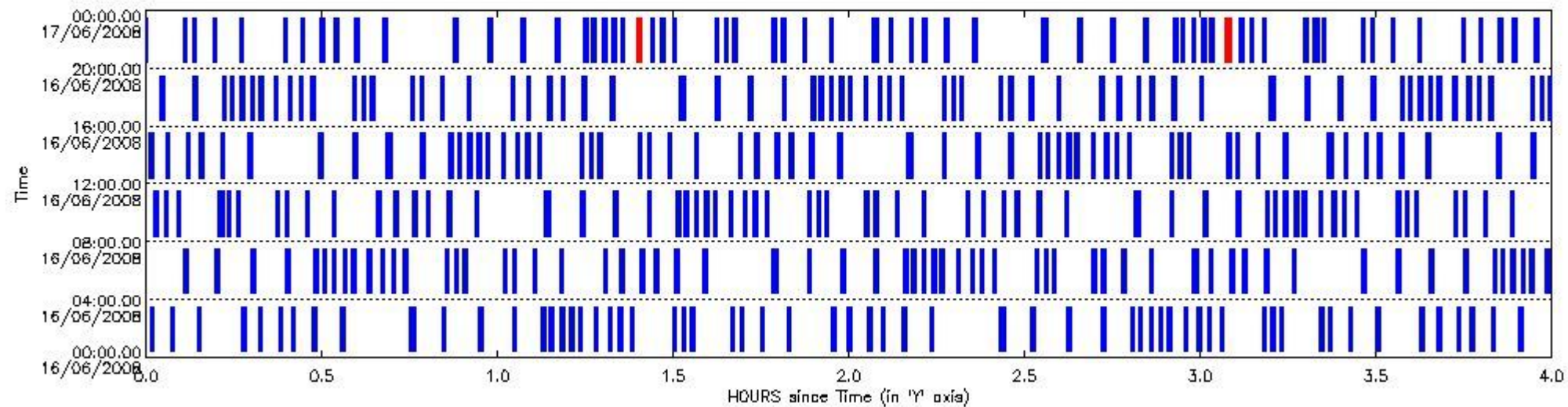
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

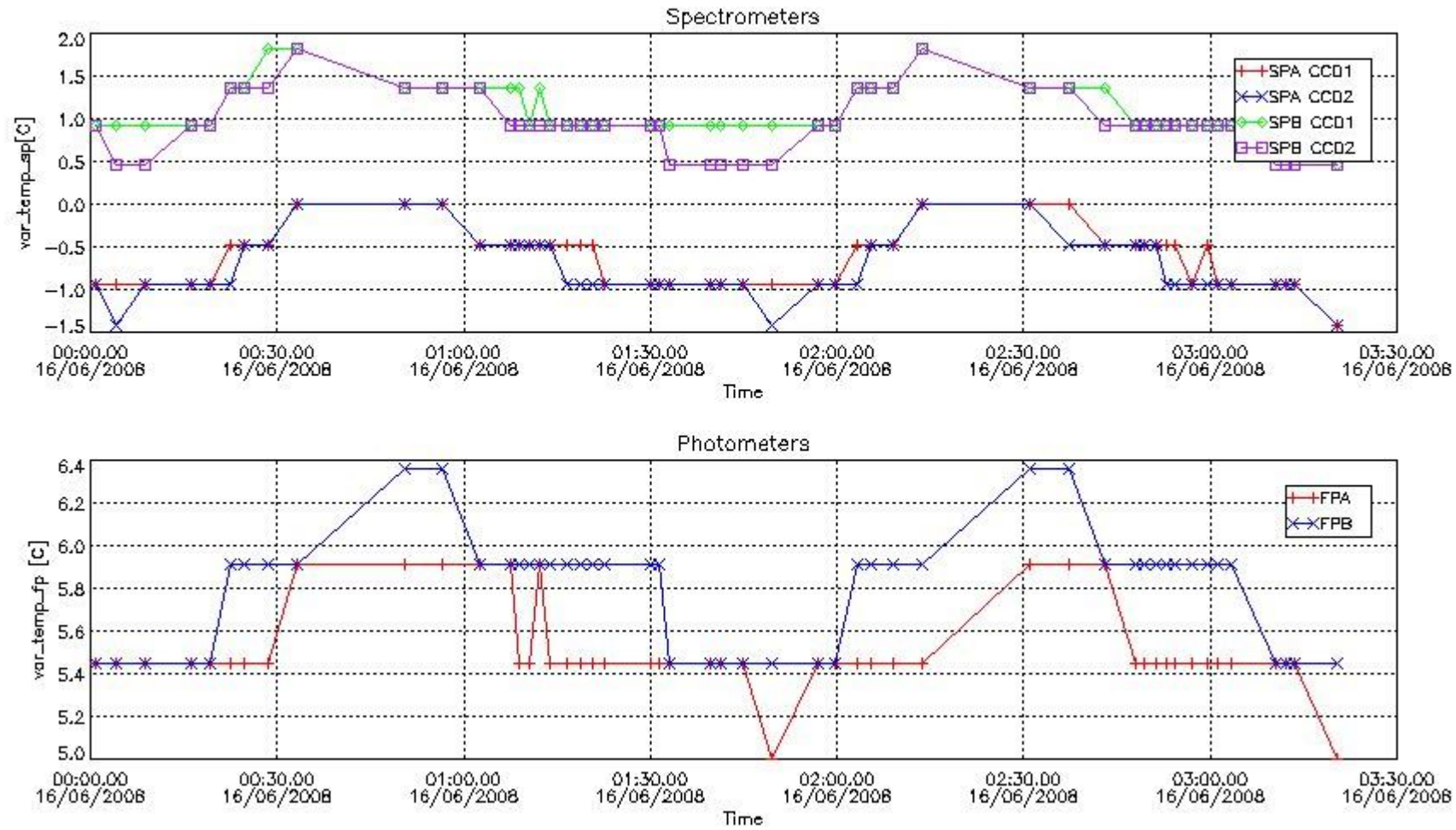
| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 16-JUN-2008 21:23:41 | 20SigSco | 156 | 32920 |
| 16-JUN-2008 23:04:17 | 20SigSco | 156 | 32921 |

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_1PNPDE20080616_000043_000000372069_00288_32907_5745.N1 | 16-JUN-2008 00:00:43 | Bright | 37.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 74 | 32907 | No |
| 2 | GOM_TRA_1PNPDE20080616_000042_000000382069_00288_32907_5746.N1 | 16-JUN-2008 00:04:12 | Bright | 37.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 75 | 32907 | No |
| 3 | GOM_TRA_1PNPDE20080616_000849_000000332069_00288_32907_5747.N1 | 16-JUN-2008 00:08:49 | Bright | 32.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 65 | 32907 | No |
| 4 | GOM_TRA_1PNPDE20080616_001618_000000412069_00288_32907_5748.N1 | 16-JUN-2008 00:16:18 | Bright | 40.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 81 | 32907 | No |
| 5 | GOM_TRA_1PNPDE20080616_001905_000000352069_00288_32907_5749.N1 | 16-JUN-2008 00:19:05 | Bright | 34.500 | 160 | 23Gam Per | 2.9300 | 4700.0 | 69 | 32907 | No |
| 6 | GOM_TRA_1PNPDE20080616_002232_000000402069_00288_32907_5750.N1 | 16-JUN-2008 00:22:32 | Bright | 40.000 | 73 | 57Gam1And | 2.2600 | 13100. | 80 | 32907 | No |
| 7 | GOM_TRA_1PNPDE20080616_002449_000000402069_00288_32907_5751.N1 | 16-JUN-2008 00:24:49 | Bright | 39.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 79 | 32907 | No |
| 8 | GOM_TRA_1PNPDE20080616_002824_000000482069_00288_32907_5752.N1 | 16-JUN-2008 00:28:24 | Twilight | 47.500 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 95 | 32907 | No |
| 9 | GOM_TRA_1PNPDE20080616_003310_000000462069_00288_32907_5753.N1 | 16-JUN-2008 00:33:10 | Dark | 46.000 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 92 | 32907 | No |

| | | | | | | | | | | | |
|----|--|----------------------|----------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 10 | GOM_TRA_1PNPDE20080616_005024_000000422069_00288_32907_5890.N1 | 16-JUN-2008 00:50:24 | Dark | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 32907 | No |
| 11 | GOM_TRA_1PNPDE20080616_005638_000000472069_00289_32908_5891.N1 | 16-JUN-2008 00:56:38 | Dark | 47.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 94 | 32908 | No |
| 12 | GOM_TRA_1PNPDE20080616_010229_000000422069_00289_32908_5892.N1 | 16-JUN-2008 01:02:29 | Straylight | 42.000 | 45 | Alp Pav | 1.9400 | 26000. | 84 | 32908 | No |
| 13 | GOM_TRA_1PNPDE20080616_010728_000000402069_00289_32908_5893.N1 | 16-JUN-2008 01:07:28 | Straylight | 40.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 80 | 32908 | No |
| 14 | GOM_TRA_1PNPDE20080616_010851_000000402069_00289_32908_5894.N1 | 16-JUN-2008 01:08:51 | Straylight | 40.000 | 147 | Alp Ara | 2.8770 | 26000. | 80 | 32908 | No |
| 15 | GOM_TRA_1PNPDE20080616_011036_000000422069_00289_32908_5895.N1 | 16-JUN-2008 01:10:36 | Tw_i_and_stray | 41.500 | 40 | The Sco | 1.8590 | 7100.0 | 83 | 32908 | No |
| 16 | GOM_TRA_1PNPDE20080616_011219_000000432069_00289_32908_5896.N1 | 16-JUN-2008 01:12:19 | Tw_i_and_stray | 43.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 86 | 32908 | No |
| 17 | GOM_TRA_1PNPDE20080616_011345_000000442069_00289_32908_5897.N1 | 16-JUN-2008 01:13:45 | Tw_i_and_stray | 43.500 | 75 | 26Eps Sco | 2.2910 | 4250.0 | 87 | 32908 | No |
| 18 | GOM_TRA_1PNPDE20080616_011631_000000362069_00289_32908_5898.N1 | 16-JUN-2008 01:16:31 | Bright | 36.000 | 156 | 20Sig Sco | 2.9030 | 28000. | 72 | 32908 | No |
| 19 | GOM_TRA_1PNPDE20080616_011853_000000392069_00289_32908_5899.N1 | 16-JUN-2008 01:18:53 | Bright | 39.000 | 86 | 35Eta Oph | 2.4300 | 10200. | 78 | 32908 | No |
| 20 | GOM_TRA_1PNPDE20080616_012037_000000372069_00289_32908_5900.N1 | 16-JUN-2008 01:20:37 | Bright | 37.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 74 | 32908 | No |
| 21 | GOM_TRA_1PNPDE20080616_012243_000000362069_00289_32908_5901.N1 | 16-JUN-2008 01:22:43 | Bright | 35.500 | 120 | 1Del Oph | 2.7340 | 3200.0 | 71 | 32908 | No |
| 22 | GOM_TRA_1PNPDE20080616_012955_000000372069_00289_32908_5902.N1 | 16-JUN-2008 01:29:55 | Bright | 37.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 74 | 32908 | No |
| 23 | GOM_TRA_1PNPDE20080616_013128_000000372069_00289_32908_5903.N1 | 16-JUN-2008 01:31:28 | Bright | 37.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 74 | 32908 | No |
| 24 | GOM_TRA_1PNPDE20080616_013256_000000382069_00289_32908_5904.N1 | 16-JUN-2008 01:32:56 | Bright | 38.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 76 | 32908 | No |
| 25 | GOM_TRA_1PNPDE20080616_013944_000000382069_00289_32908_5905.N1 | 16-JUN-2008 01:39:44 | Bright | 38.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 76 | 32908 | No |
| 26 | GOM_TRA_1PNPDE20080616_014119_000000432069_00289_32908_5906.N1 | 16-JUN-2008 01:41:19 | Bright | 43.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 86 | 32908 | No |
| 27 | GOM_TRA_1PNPDE20080616_014448_000000382069_00289_32908_5907.N1 | 16-JUN-2008 01:44:48 | Bright | 37.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 75 | 32908 | No |
| 28 | GOM_TRA_1PNPDE20080616_014925_000000362069_00289_32908_5908.N1 | 16-JUN-2008 01:49:25 | Bright | 36.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 72 | 32908 | No |
| 29 | GOM_TRA_1PNPDE20080616_015653_000000552069_00289_32908_5909.N1 | 16-JUN-2008 01:56:53 | Bright | 55.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 110 | 32908 | No |
| 30 | GOM_TRA_1PNPDE20080616_015941_000000472069_00289_32908_5910.N1 | 16-JUN-2008 01:59:41 | Bright | 47.000 | 160 | 23Gam Per | 2.9300 | 4700.0 | 94 | 32908 | No |
| 31 | GOM_TRA_1PNPDE20080616_020308_000000412069_00289_32908_5911.N1 | 16-JUN-2008 02:03:08 | Bright | 41.000 | 73 | 57Gam1And | 2.2600 | 13100. | 82 | 32908 | No |
| 32 | GOM_TRA_1PNPDE20080616_020525_000000422069_00289_32908_5912.N1 | 16-JUN-2008 02:05:25 | Bright | 41.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 83 | 32908 | No |
| 33 | GOM_TRA_1PNPDE20080616_020901_000000482069_00289_32908_5913.N1 | 16-JUN-2008 02:09:01 | Twilight | 48.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 96 | 32908 | No |
| 34 | GOM_TRA_1PNPDE20080616_021347_000000432069_00289_32908_5914.N1 | 16-JUN-2008 02:13:47 | Dark | 43.000 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 86 | 32908 | No |
| 35 | GOM_TRA_1PNPDE20080616_023100_000000442069_00289_32908_6036.N1 | 16-JUN-2008 02:31:00 | Dark | 43.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 87 | 32908 | No |
| 36 | GOM_TRA_1PNPDE20080616_023715_000000502069_00290_32909_6037.N1 | 16-JUN-2008 02:37:15 | Dark | 49.500 | 63 | Bet Gru | 2.1500 | 2800.0 | 99 | 32909 | No |
| 37 | GOM_TRA_1PNPDE20080616_024305_000000442069_00290_32909_6038.N1 | 16-JUN-2008 02:43:05 | Straylight | 43.500 | 45 | Alp Pav | 1.9400 | 26000. | 87 | 32909 | No |
| 38 | GOM_TRA_1PNPDE20080616_024805_000000412069_00290_32909_6039.N1 | 16-JUN-2008 02:48:05 | Straylight | 40.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 81 | 32909 | No |
| 39 | GOM_TRA_1PNPDE20080616_024927_000000392069_00290_32909_6040.N1 | 16-JUN-2008 02:49:27 | Straylight | 39.000 | 147 | Alp Ara | 2.8770 | 26000. | 78 | 32909 | No |
| 40 | GOM_TRA_1PNPDE20080616_025112_000000422069_00290_32909_6041.N1 | 16-JUN-2008 02:51:12 | Tw_i_and_stray | 42.000 | 40 | The Sco | 1.8590 | 7100.0 | 84 | 32909 | No |
| 41 | GOM_TRA_1PNPDE20080616_025255_000000422069_00290_32909_6042.N1 | 16-JUN-2008 02:52:55 | Tw_i_and_stray | 42.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 84 | 32909 | No |
| 42 | GOM_TRA_1PNPDE20080616_025421_000000412069_00290_32909_6043.N1 | 16-JUN-2008 02:54:21 | Tw_i_and_stray | 41.000 | 75 | 26Eps Sco | 2.2910 | 4250.0 | 82 | 32909 | No |
| 43 | GOM_TRA_1PNPDE20080616_025707_000000362069_00290_32909_6044.N1 | 16-JUN-2008 02:57:07 | Bright | 35.500 | 156 | 20Sig Sco | 2.9030 | 28000. | 71 | 32909 | No |
| 44 | GOM_TRA_1PNPDE20080616_025929_000000382069_00290_32909_6045.N1 | 16-JUN-2008 02:59:29 | Bright | 38.000 | 86 | 35Eta Oph | 2.4300 | 10200. | 76 | 32909 | No |
| 45 | GOM_TRA_1PNPDE20080616_030113_000000372069_00290_32909_6046.N1 | 16-JUN-2008 03:01:13 | Bright | 36.500 | 98 | 13Zet Oph | 2.5710 | 30000. | 73 | 32909 | No |
| 46 | GOM_TRA_1PNPDE20080616_030319_000000362069_00290_32909_6047.N1 | 16-JUN-2008 03:03:19 | Bright | 35.500 | 120 | 1Del Oph | 2.7340 | 3200.0 | 71 | 32909 | No |
| 47 | GOM_TRA_1PNPDE20080616_031031_000000372069_00290_32909_6048.N1 | 16-JUN-2008 03:10:31 | Bright | 37.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 74 | 32909 | No |
| 48 | GOM_TRA_1PNPDE20080616_031204_000000362069_00290_32909_6049.N1 | 16-JUN-2008 03:12:04 | Bright | 36.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 72 | 32909 | No |
| 49 | GOM_TRA_1PNPDE20080616_031332_000000392069_00290_32909_6050.N1 | 16-JUN-2008 03:13:32 | Bright | 38.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 77 | 32909 | No |
| 50 | GOM_TRA_1PNPDE20080616_032019_000000392069_00290_32909_6051.N1 | 16-JUN-2008 03:20:19 | Bright | 39.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 78 | 32909 | No |

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



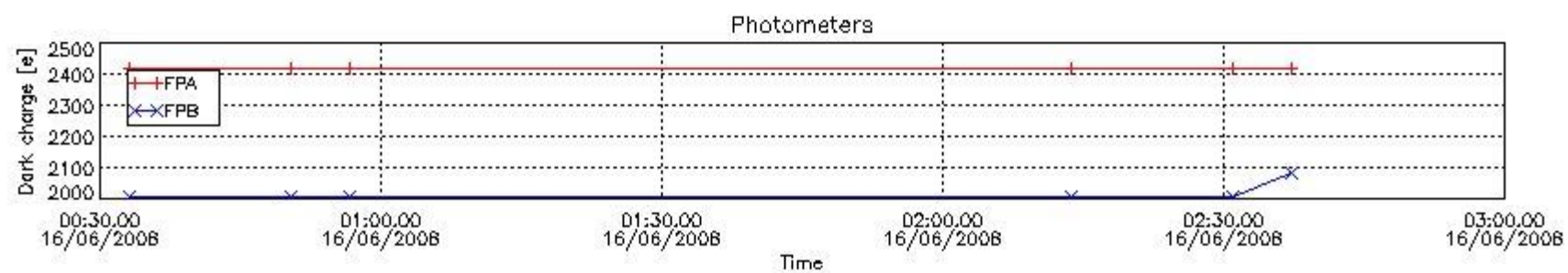
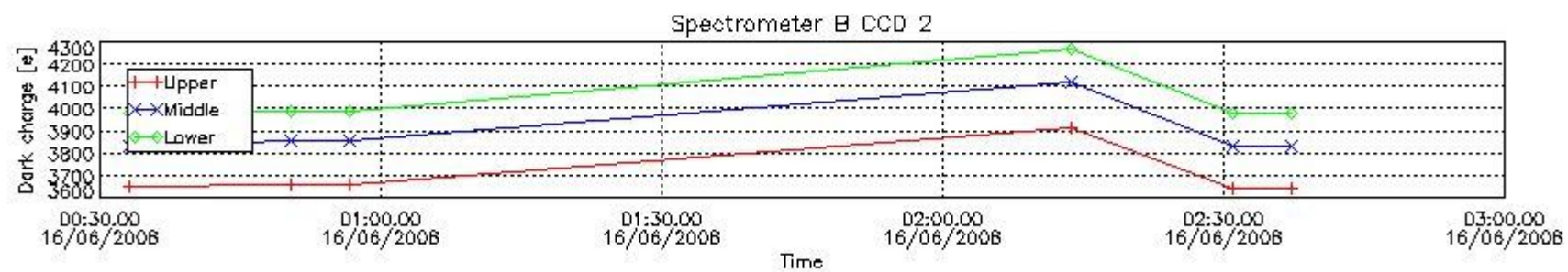
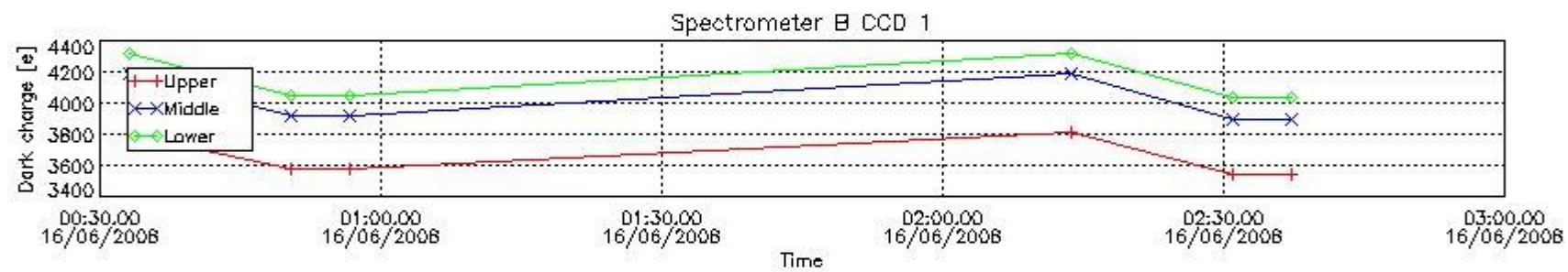
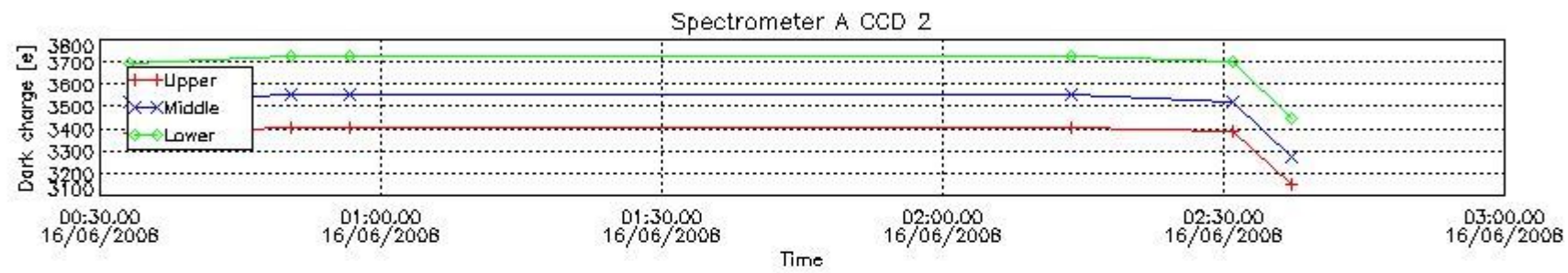
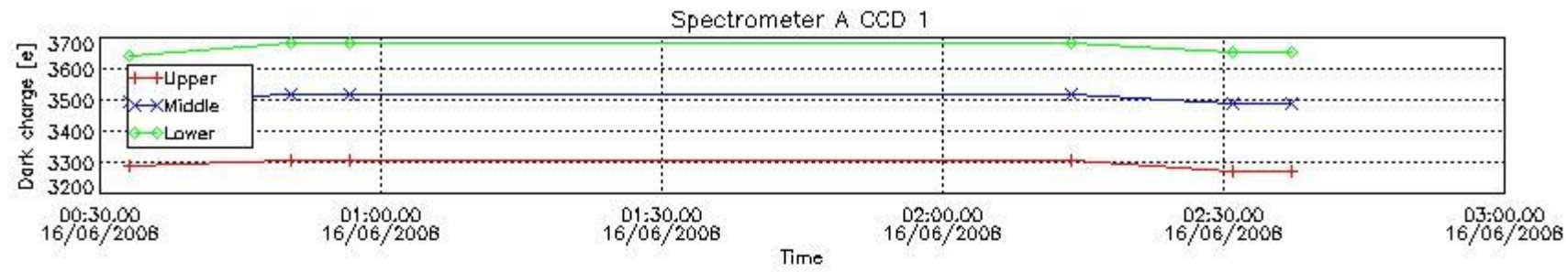
4. Overview of dark signal processing per product

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



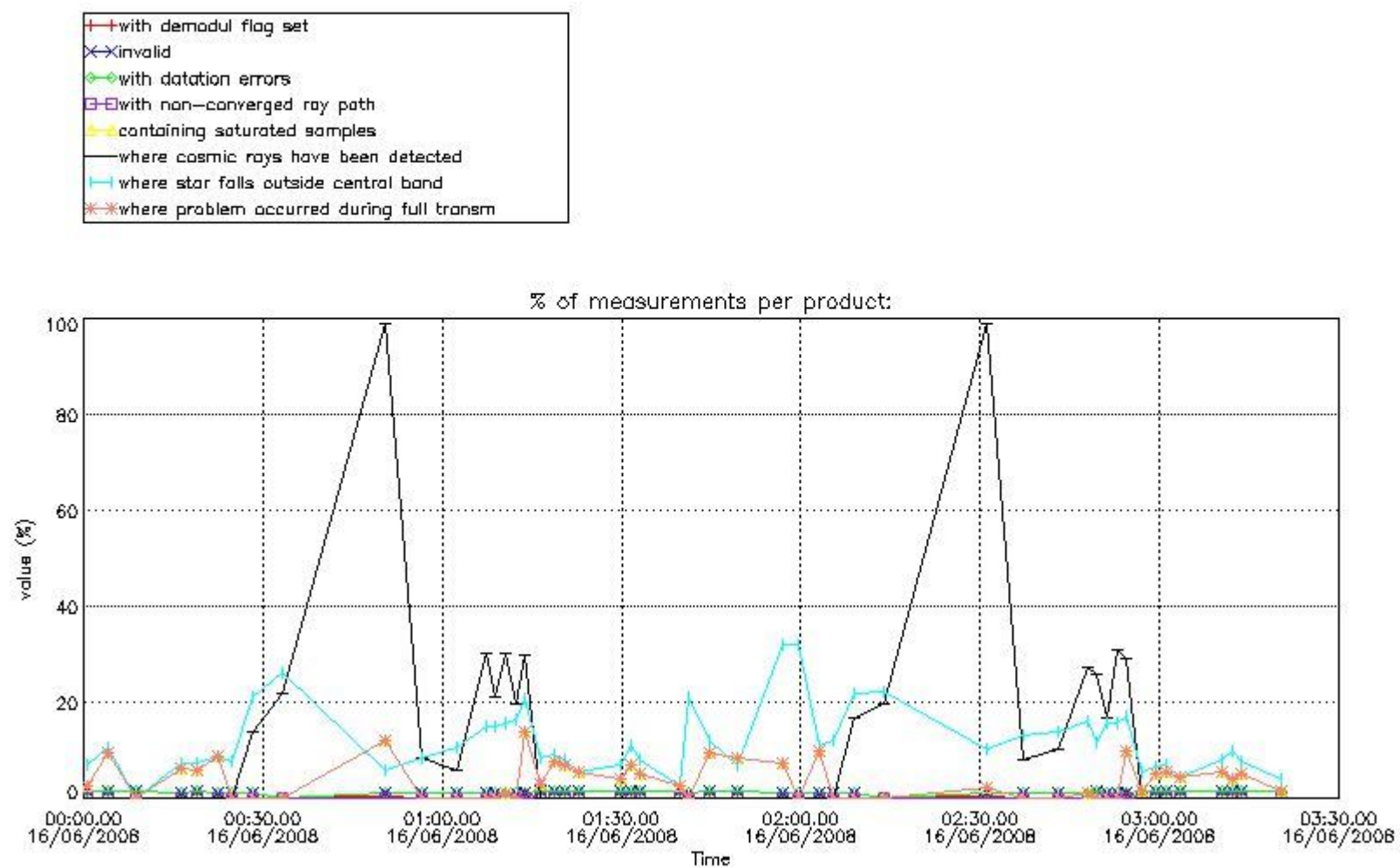
5. Demodulation flag and quality information monitoring

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.

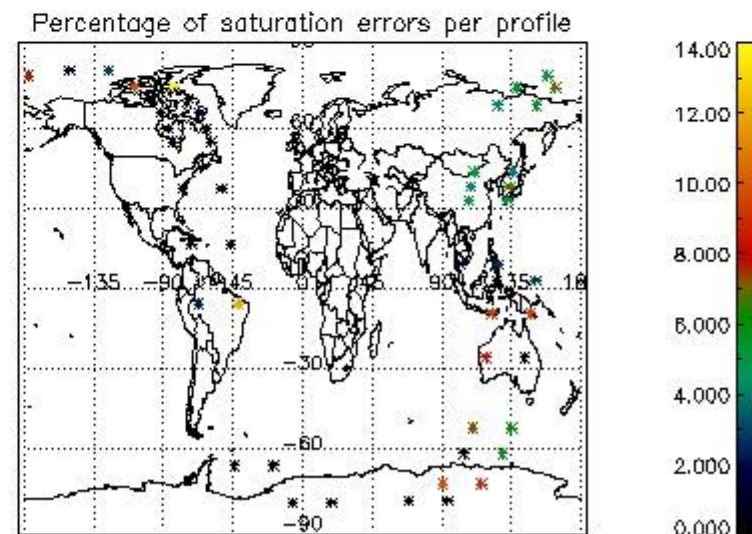
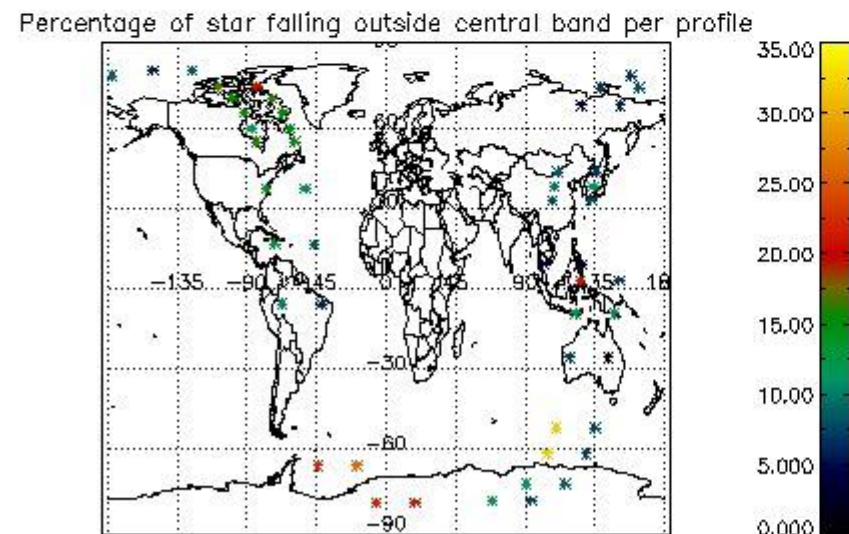
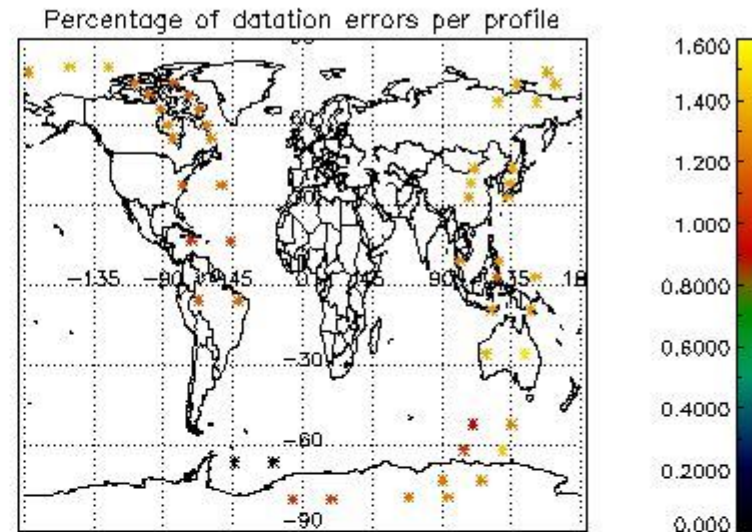
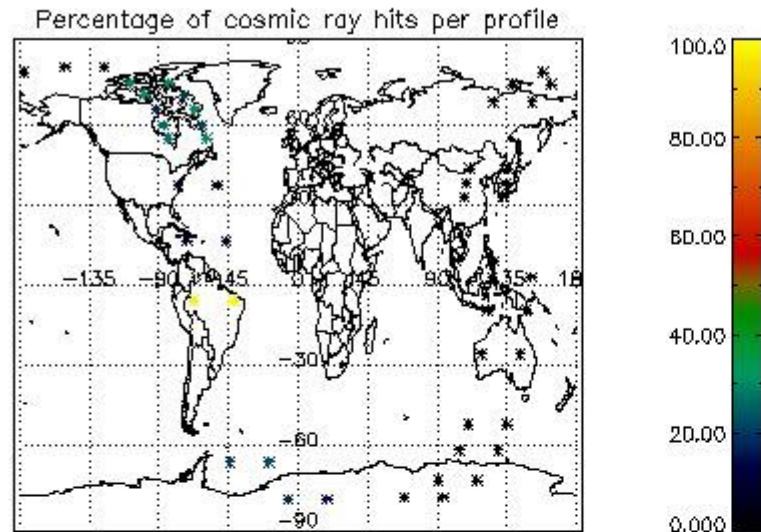
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| 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)



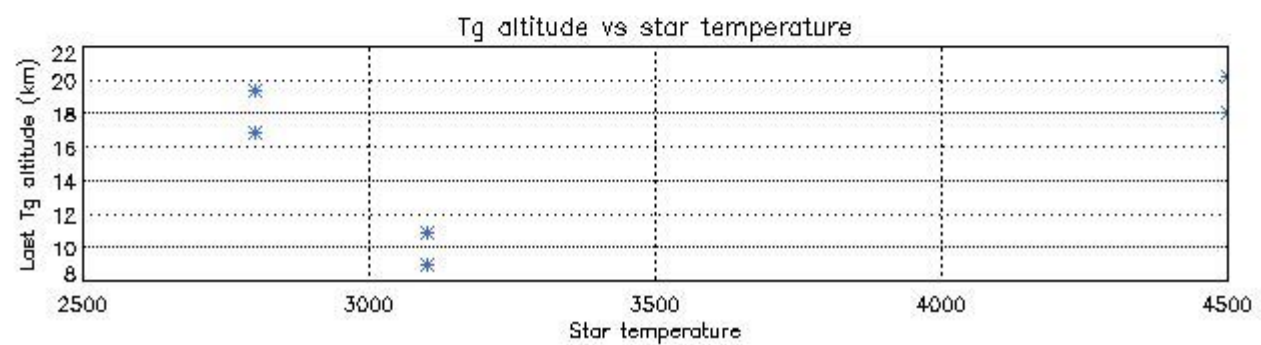
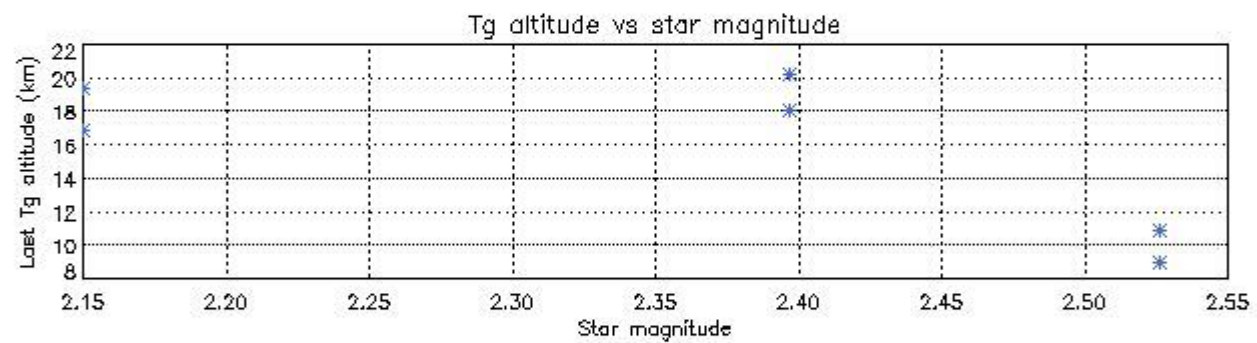
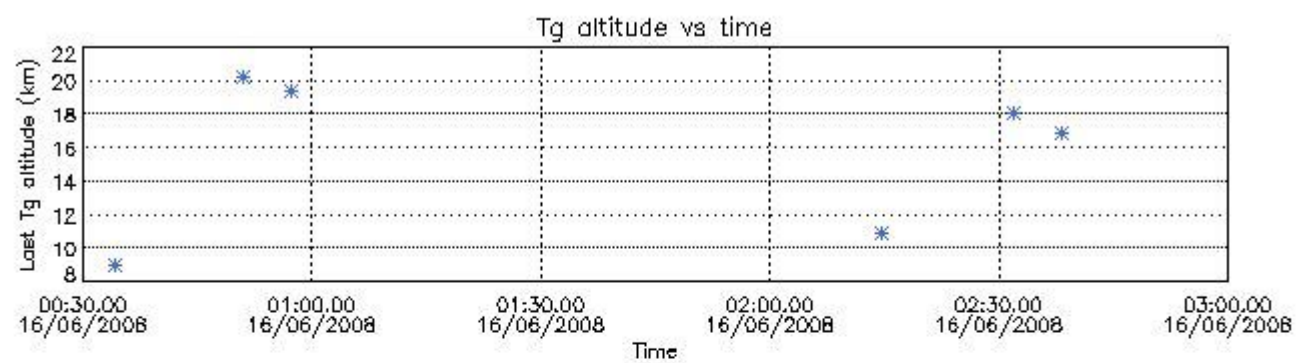
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.721 | 19.235 | 10.959 |
| St. deviation: | 4.6753 | 4.2120 | 0.46099 |
| Maximum: | 20.218 | 28.233 | 11.285 |
| Minimum: | 8.9348 | 6.6661 | 10.633 |
| Number of data: | 6.0000 | 30.000 | 2.0000 |

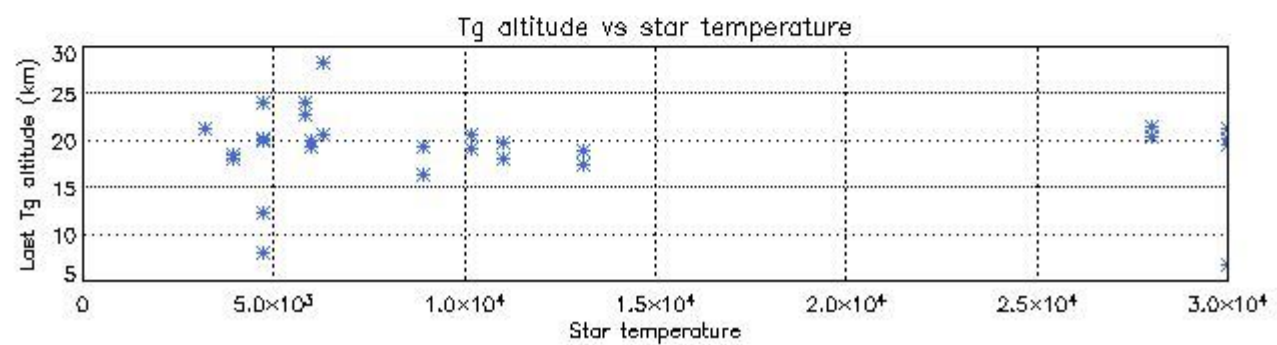
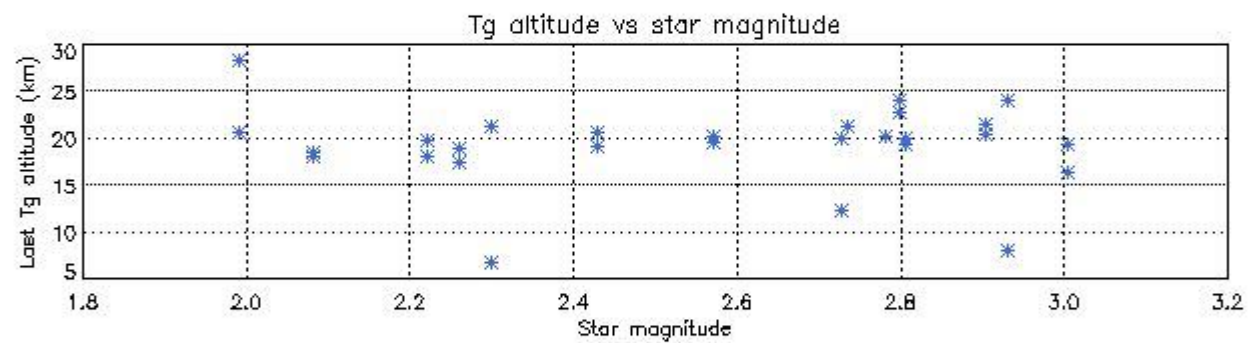
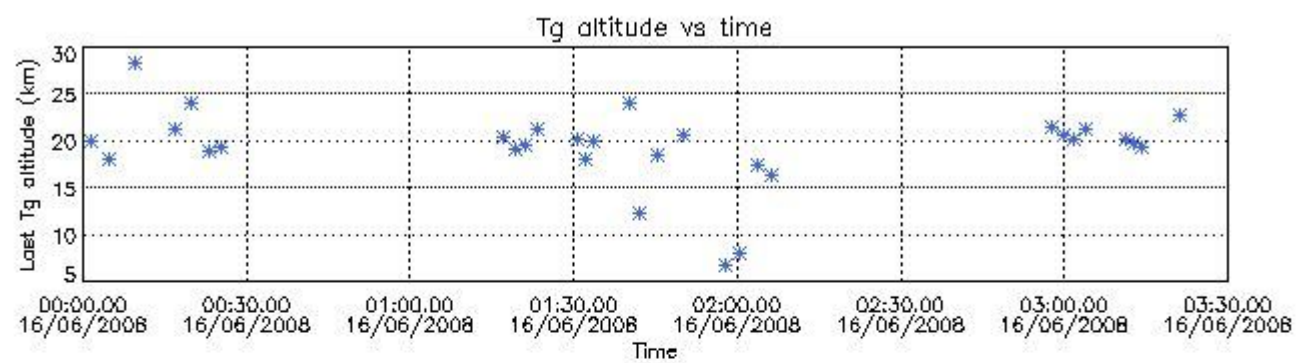
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



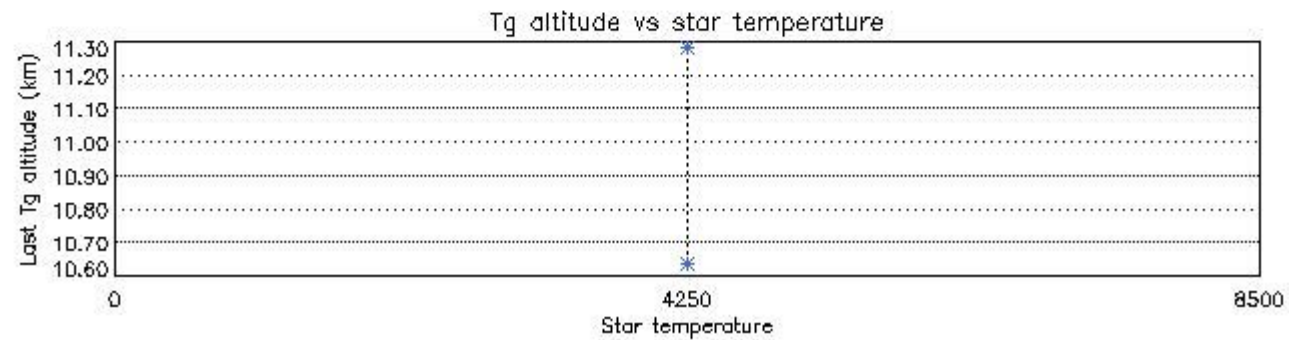
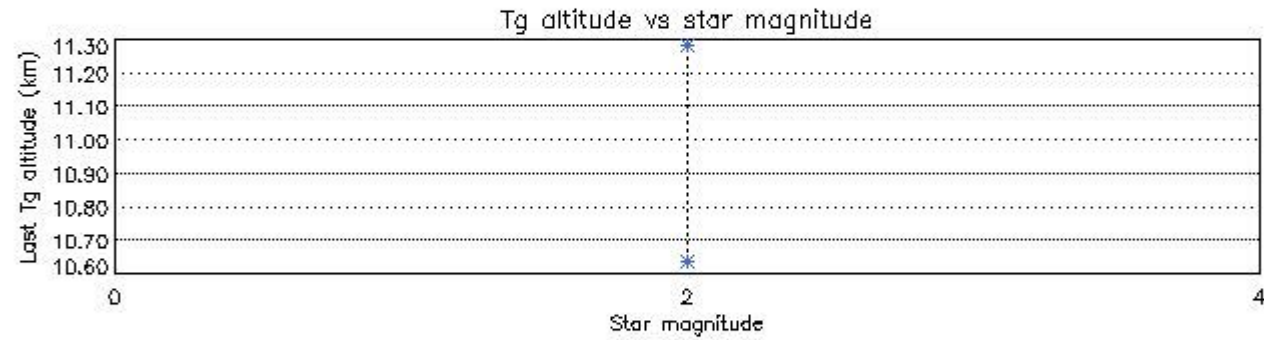
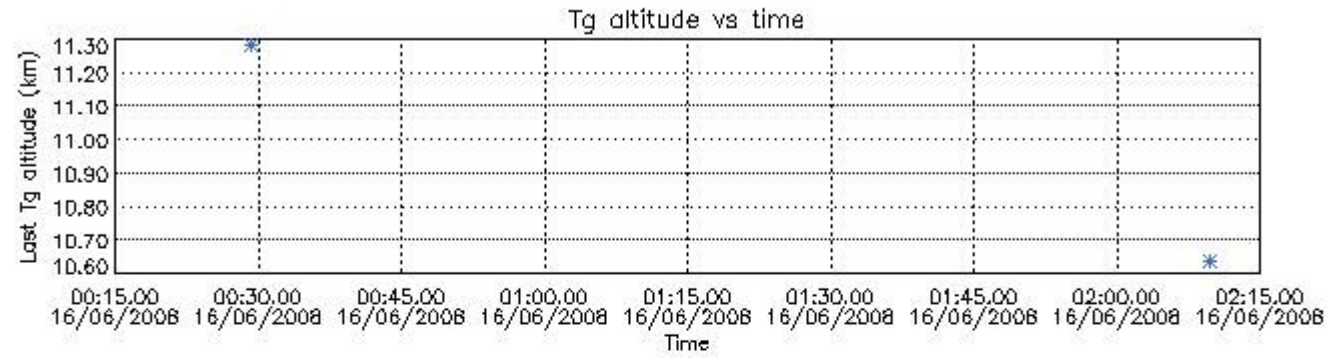
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

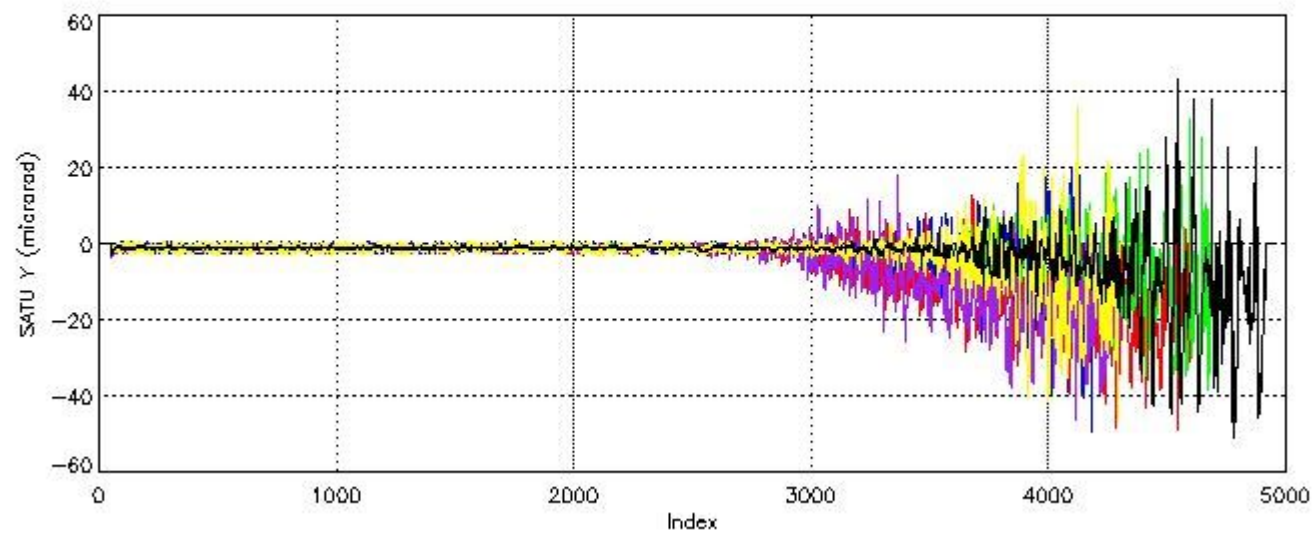
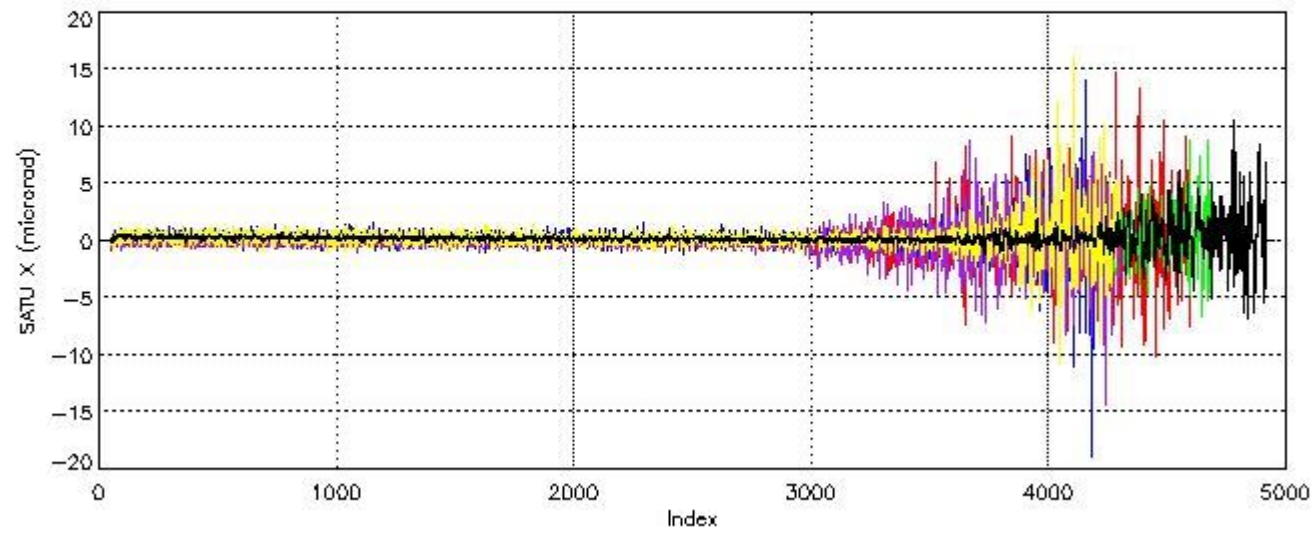


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.12858 | -1.1673 | 0.12885 | -1.3242 |
| St. deviation: | 0.24857 | 0.56373 | 0.80915 | 1.2959 |
| Maximum: | 1.4000 | 0.70000 | 4.4000 | 4.6000 |
| Minimum: | -1.1000 | -3.7000 | -4.1000 | -7.6000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 5950.0 | 5950.0 | 25350. | 25350. |
|-----------------|--------|--------|--------|--------|

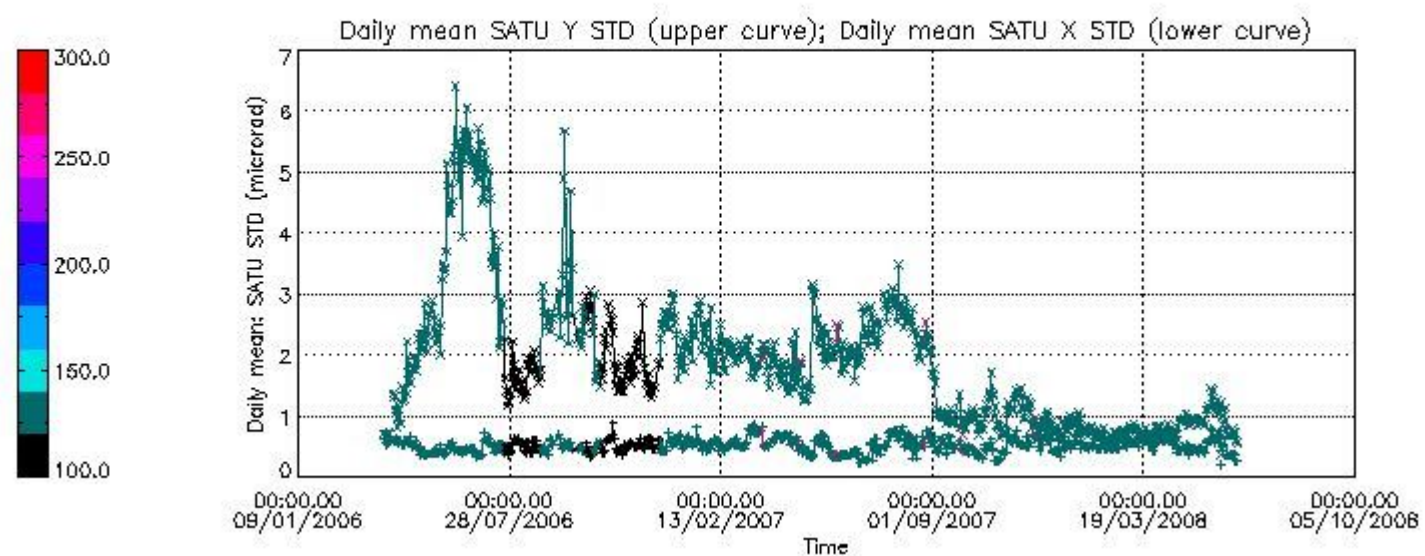
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

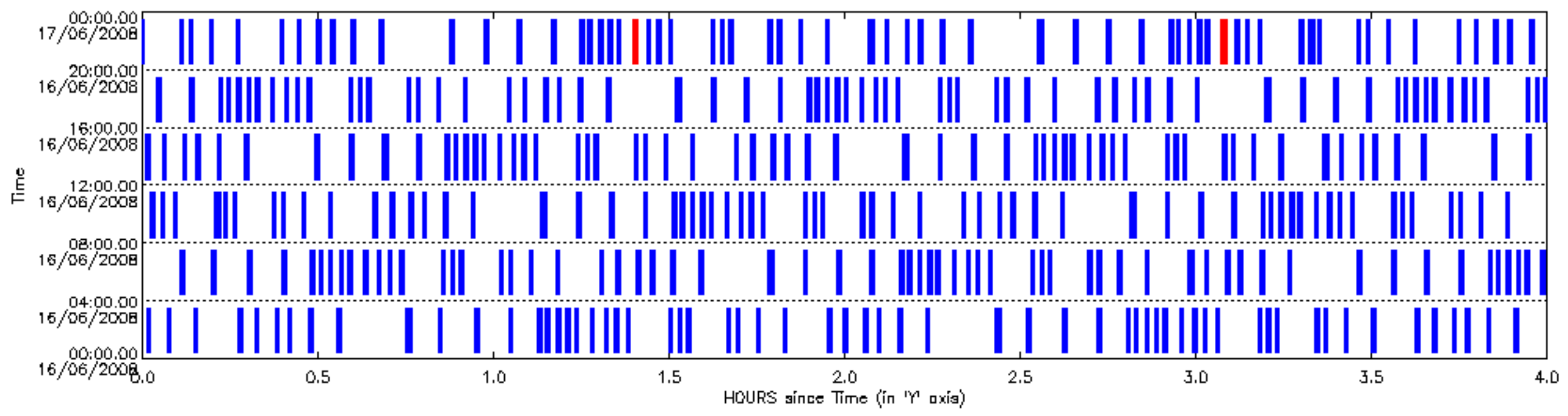
Lower curve: STD of SATU X axis

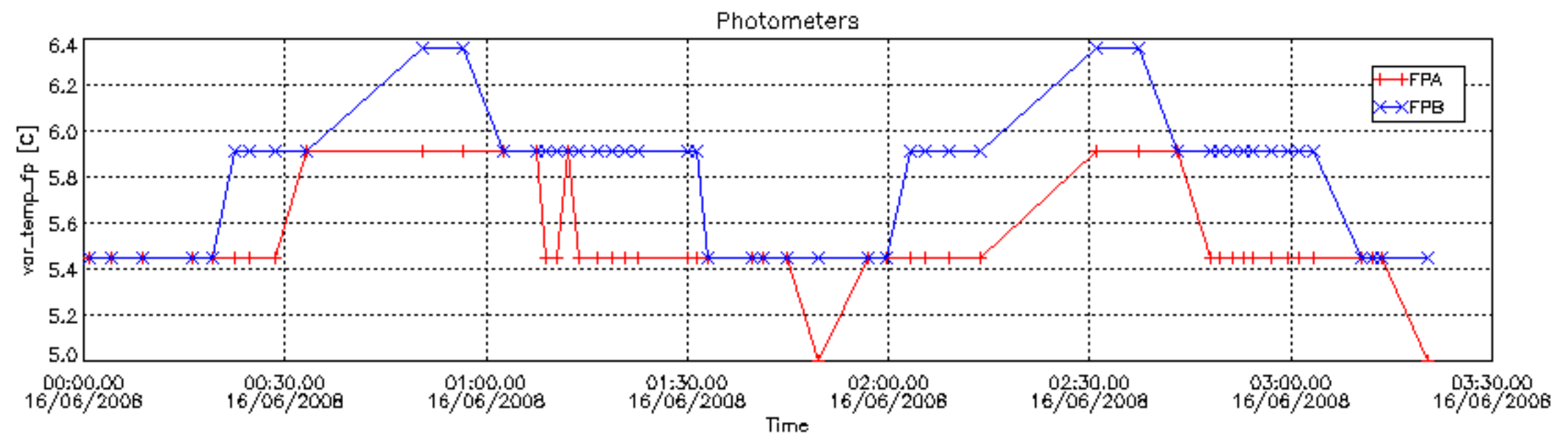
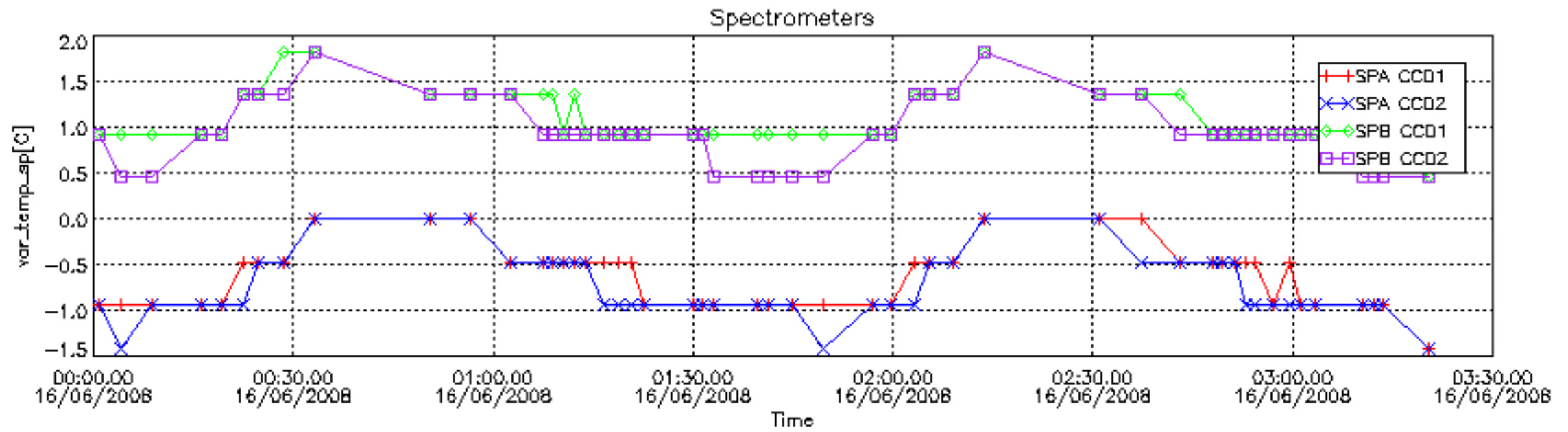


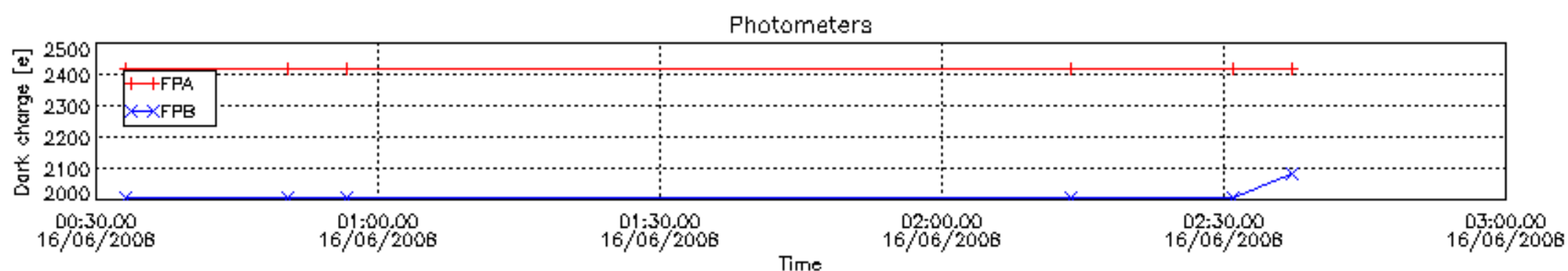
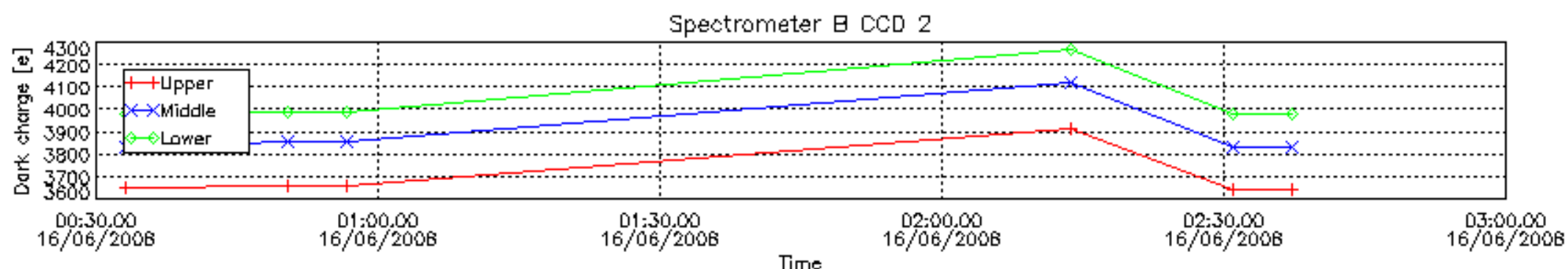
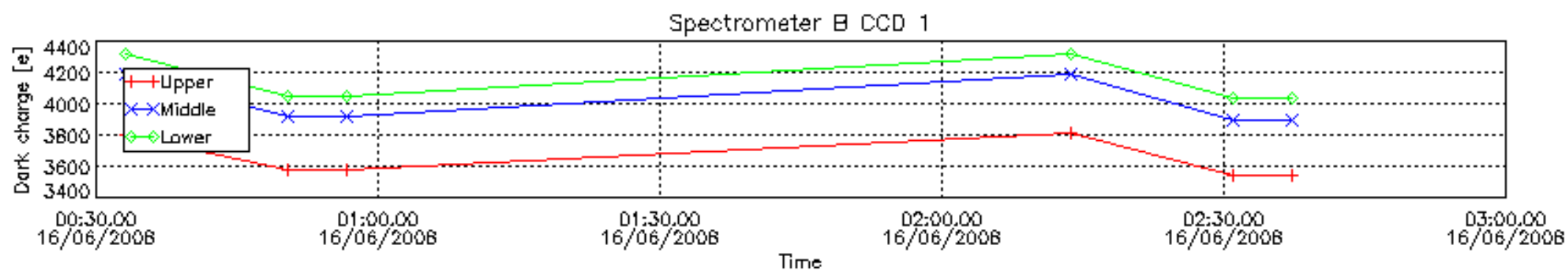
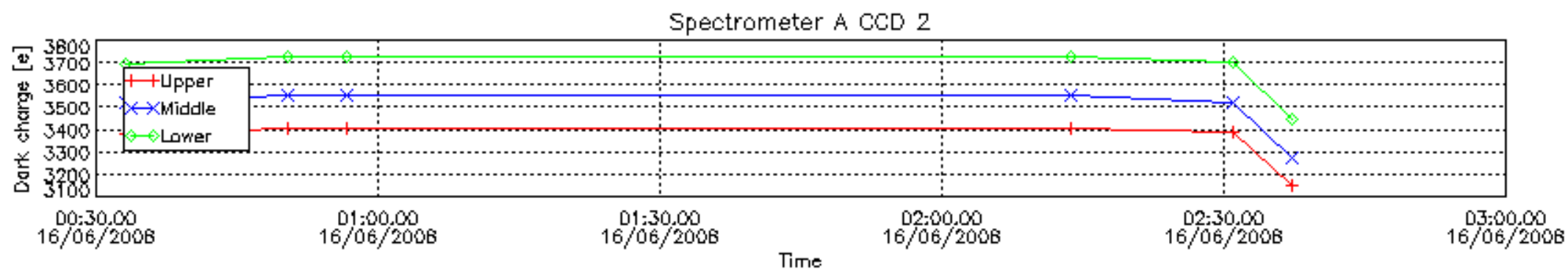
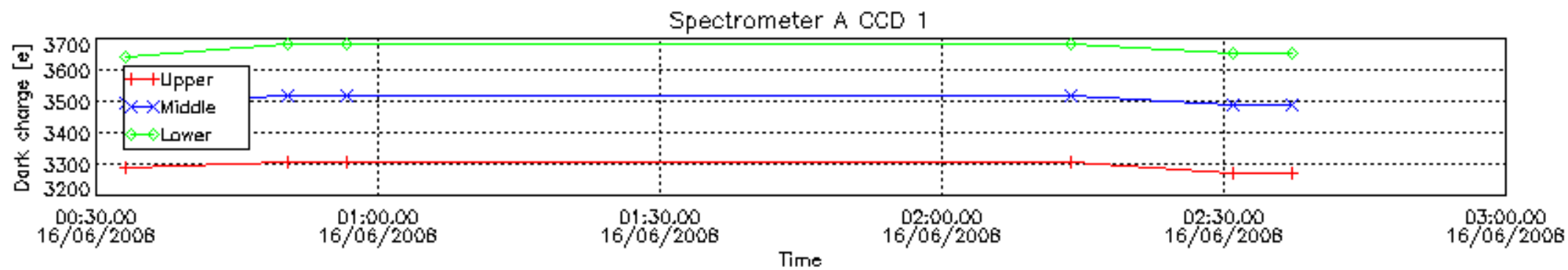
8. Auxiliary Data Files used for the production reported in section 2.4

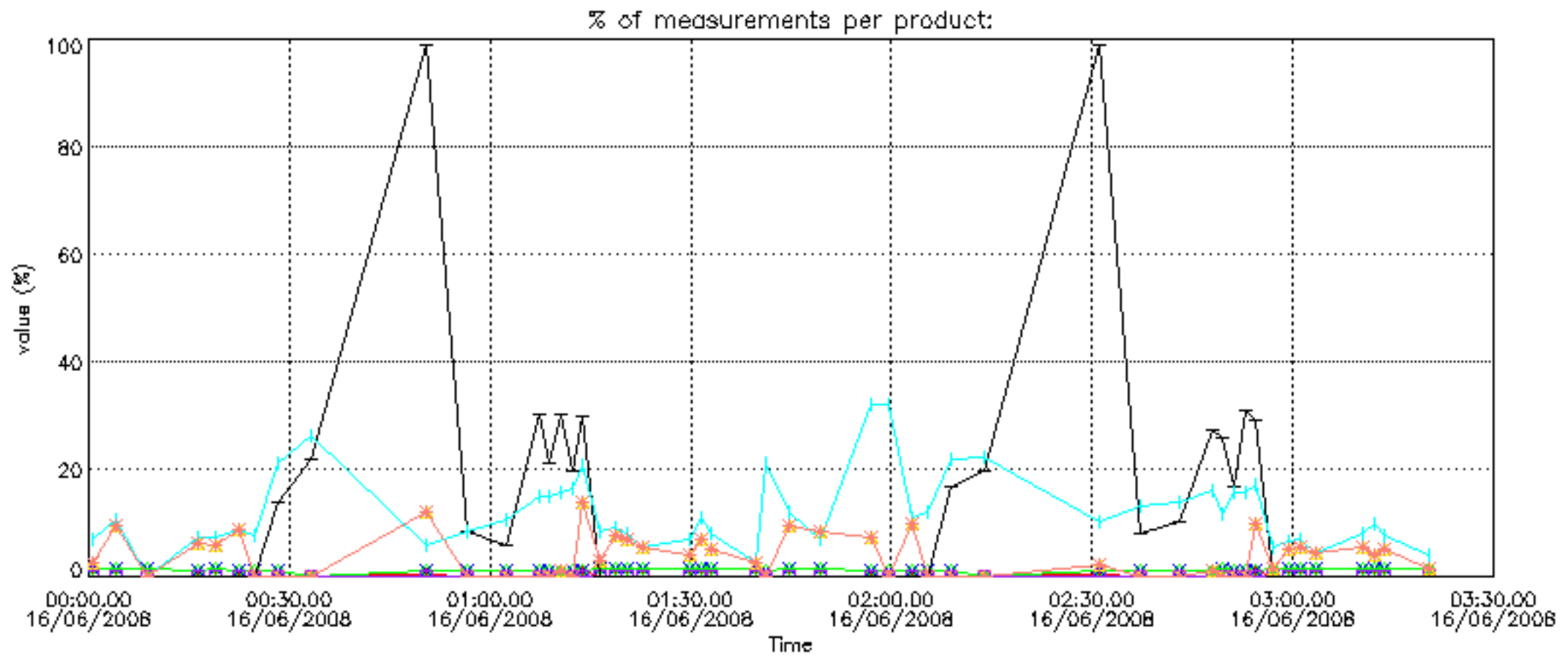
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 16-JUN-2008 00:00:43 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000 | 1 | 16-JUN-2008 00:00:43 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 16-JUN-2008 00:00:43 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 16-JUN-2008 00:00:43 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 16-JUN-2008 00:00:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20080615_072114_20080615_210000_20080616_090000 | 1 | 16-JUN-2008 00:00:43 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 16-JUN-2008 00:00:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080615_211310_000060572069_00286_32905_5744.N1 | 1 | 16-JUN-2008 00:00:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080615_225407_000057382069_00287_32906_5745.N1 | 10 | 16-JUN-2008 00:50:24 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080616_003504_000054192069_00288_32907_5746.N1 | 35 | 16-JUN-2008 02:31:00 |

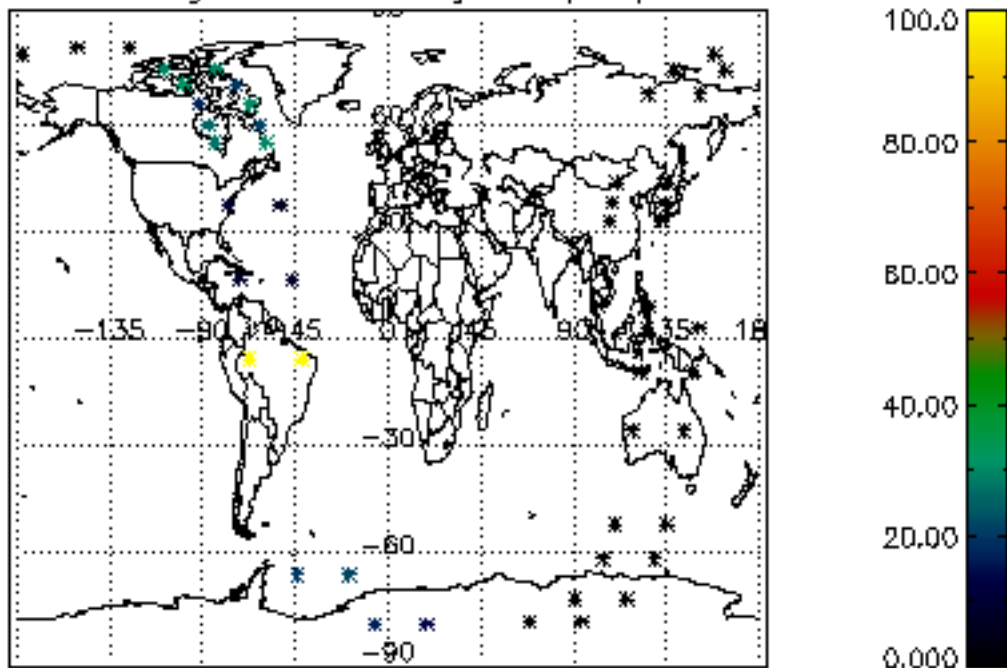




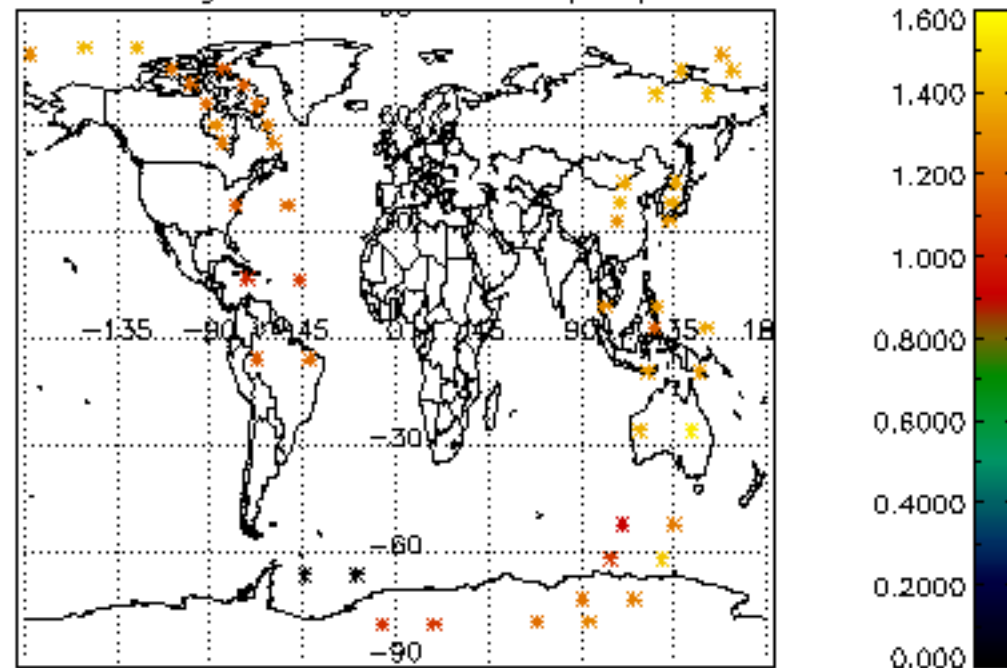




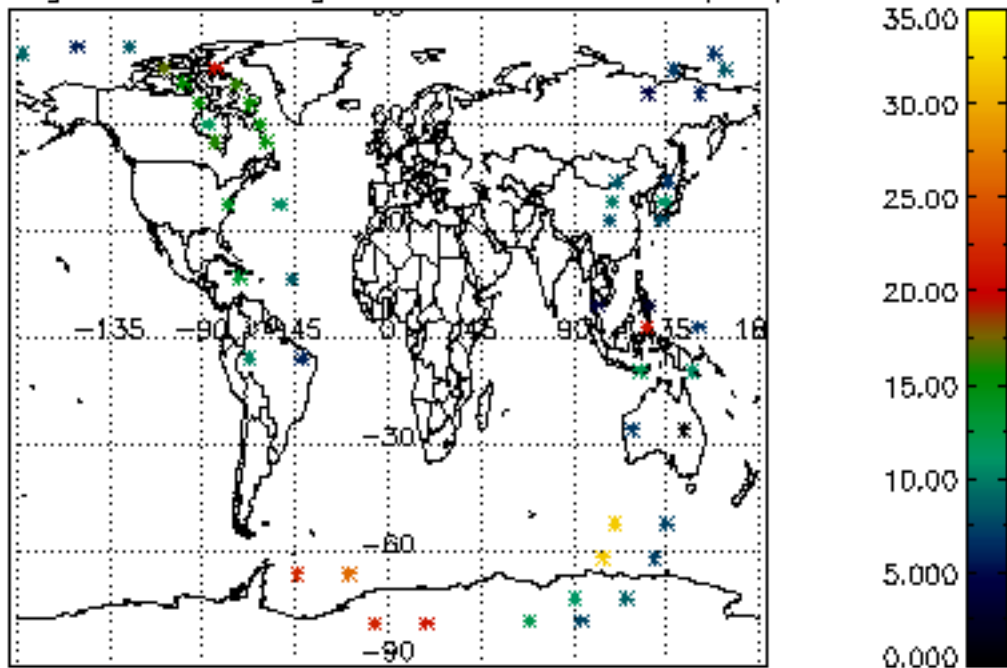
Percentage of cosmic ray hits per profile



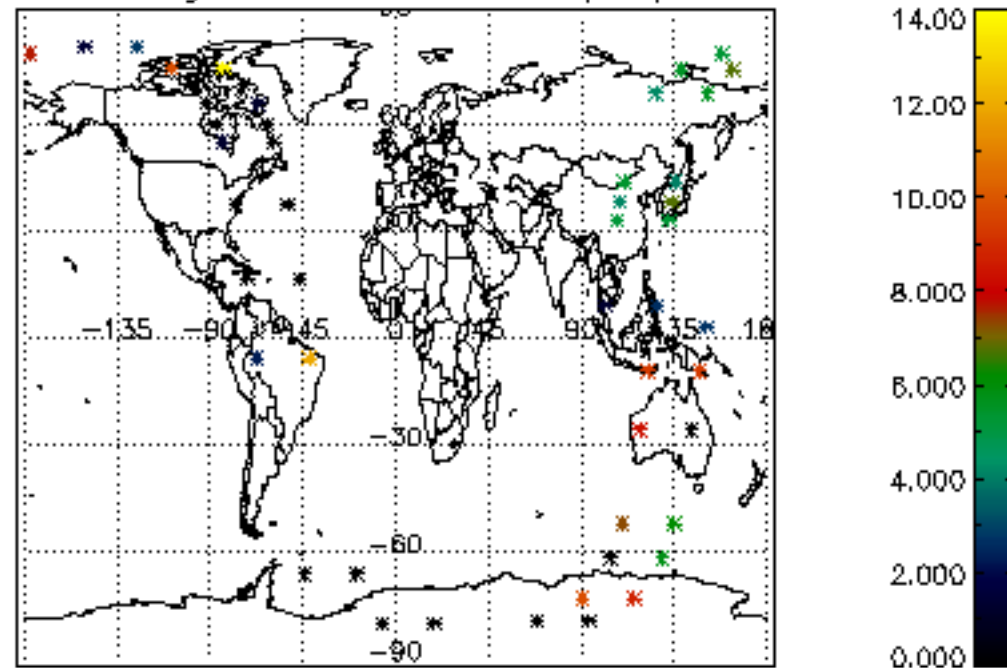
Percentage of datation errors per profile



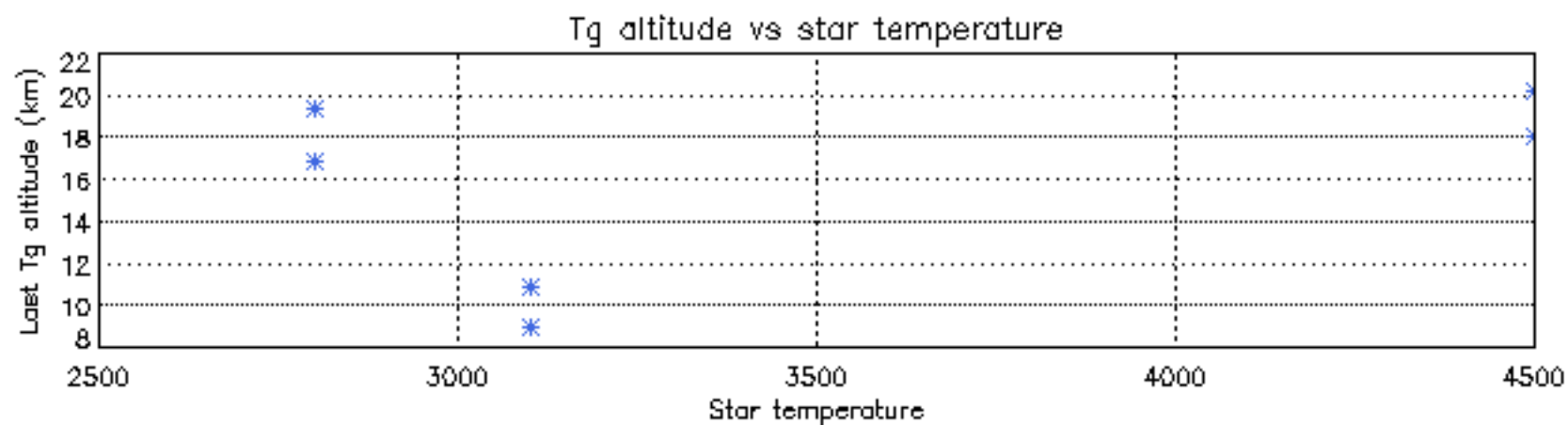
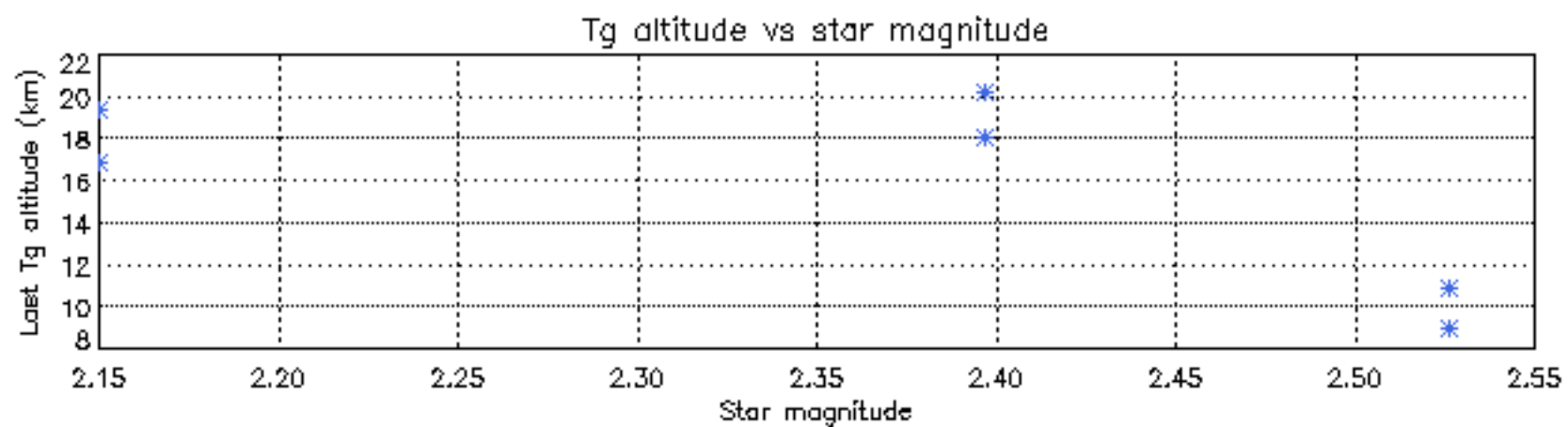
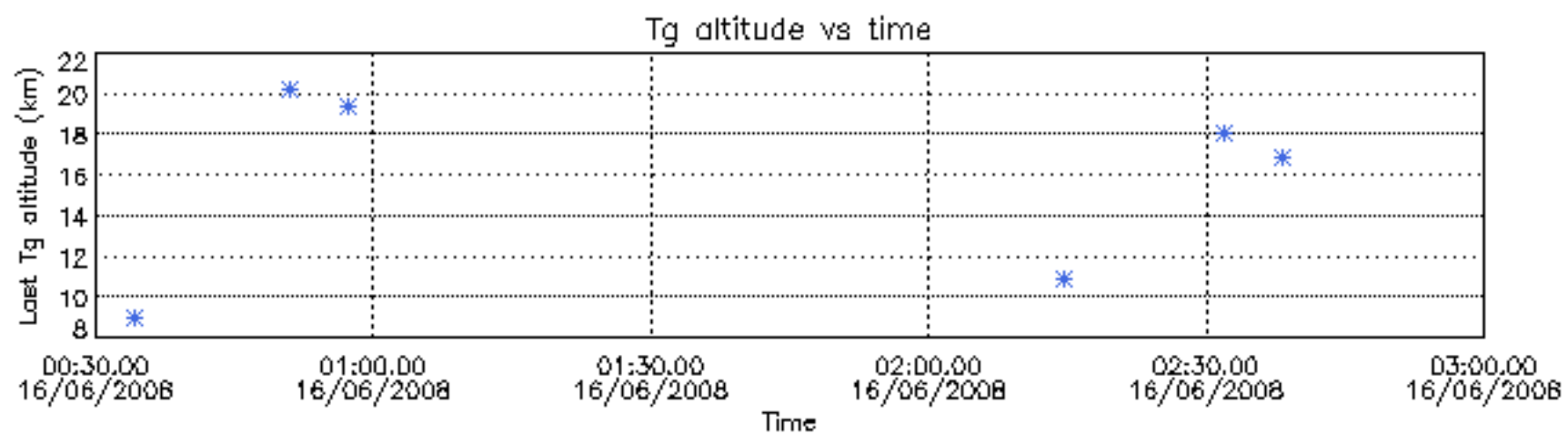
Percentage of star falling outside central band per profile



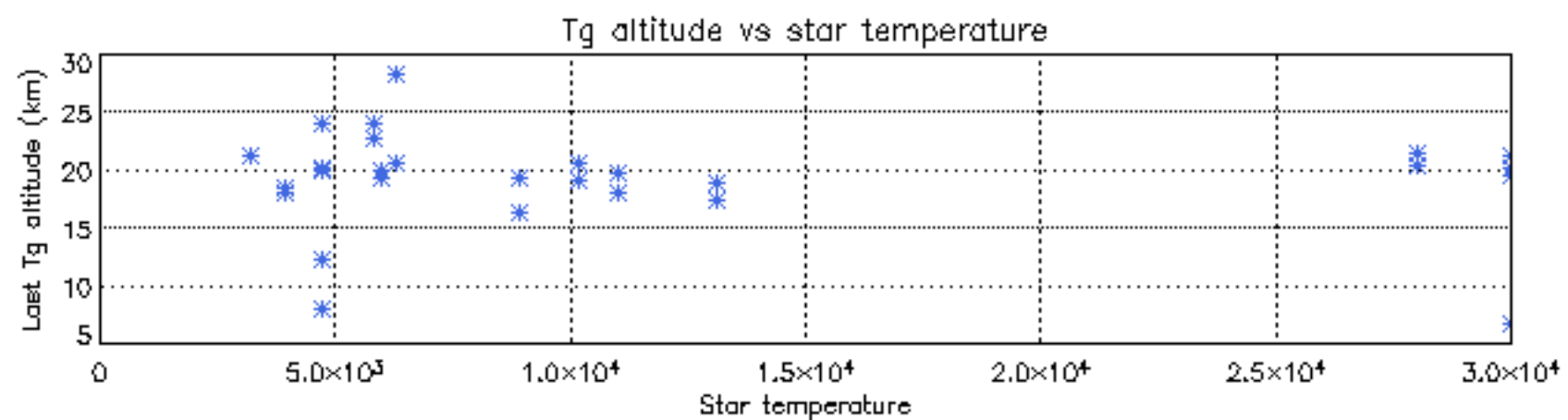
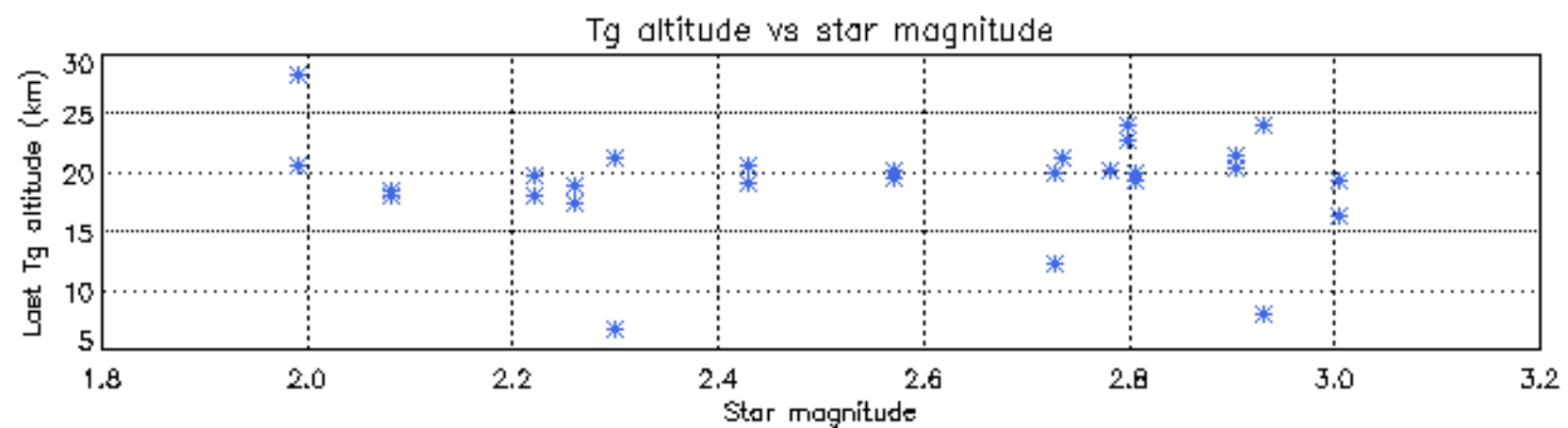
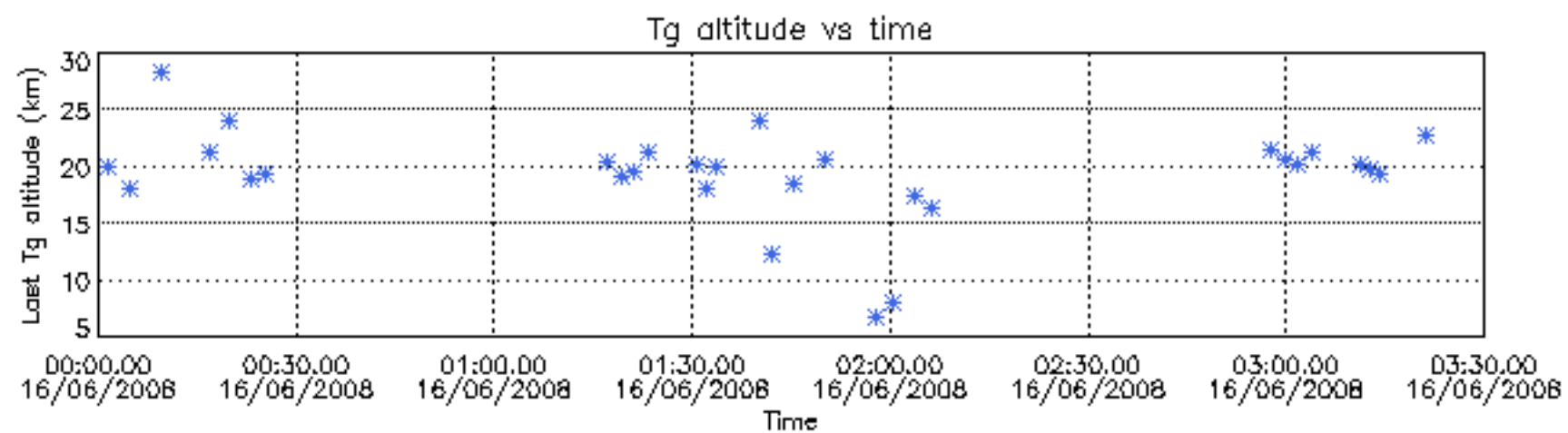
Percentage of saturation errors per profile



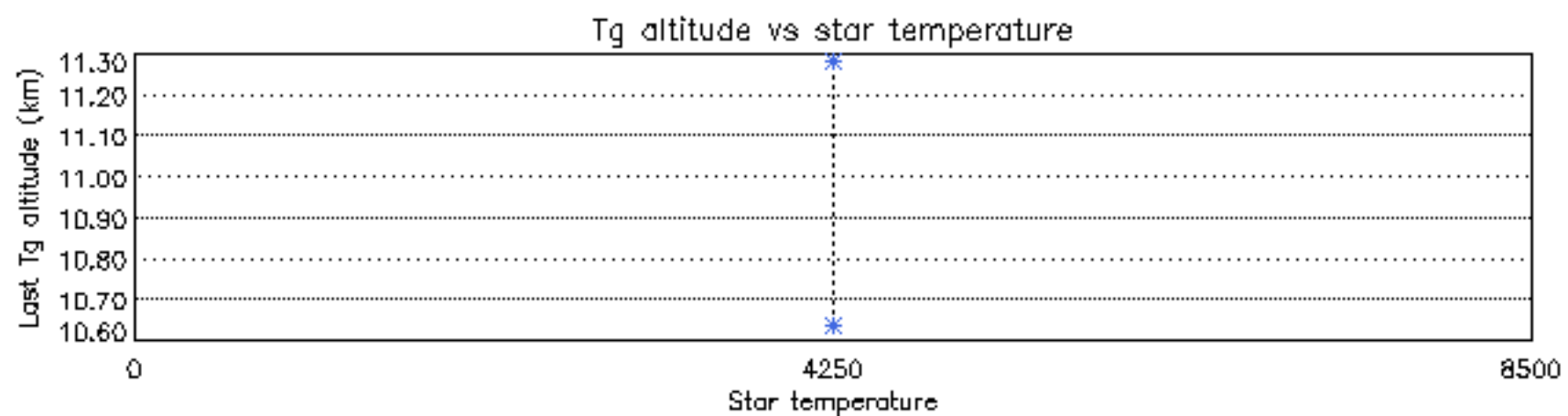
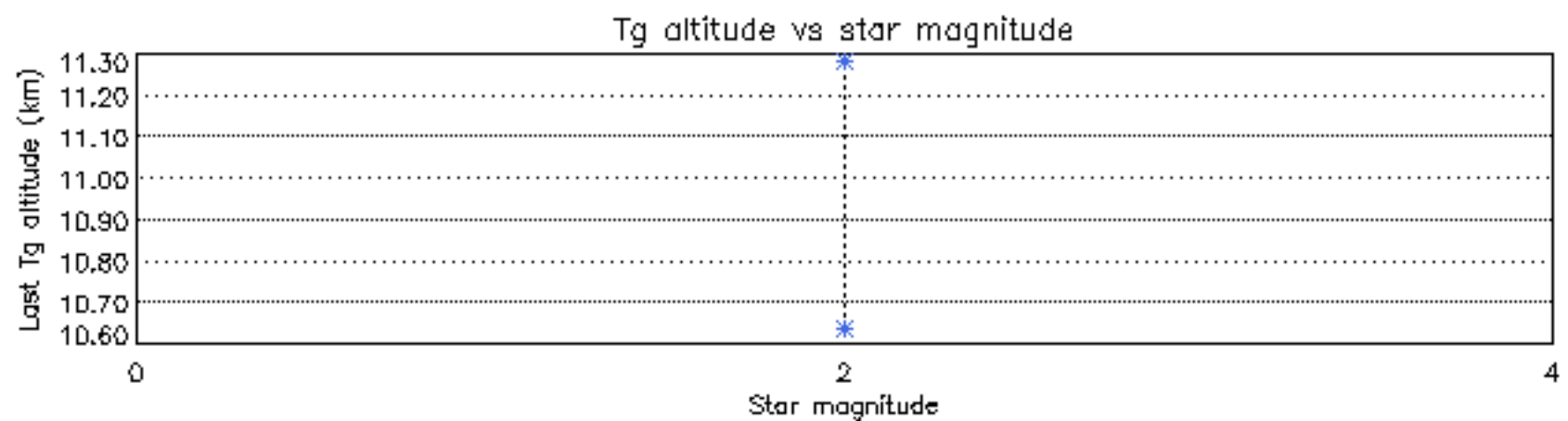
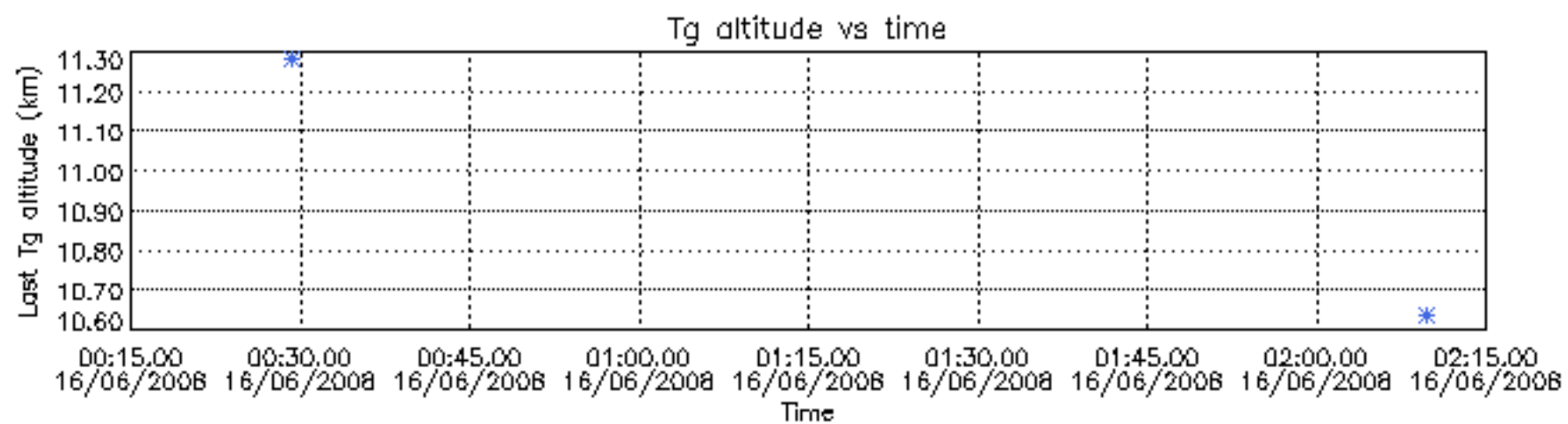
Tangent altitude at which the star is lost

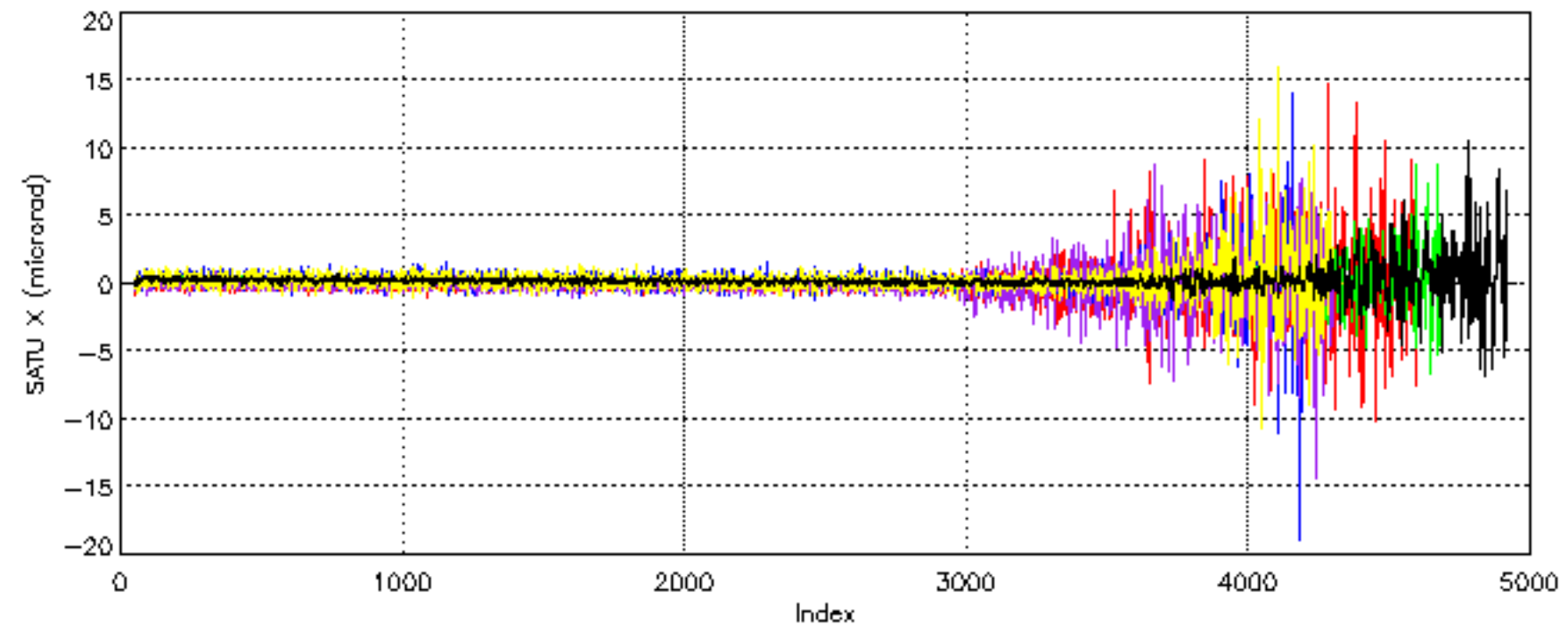


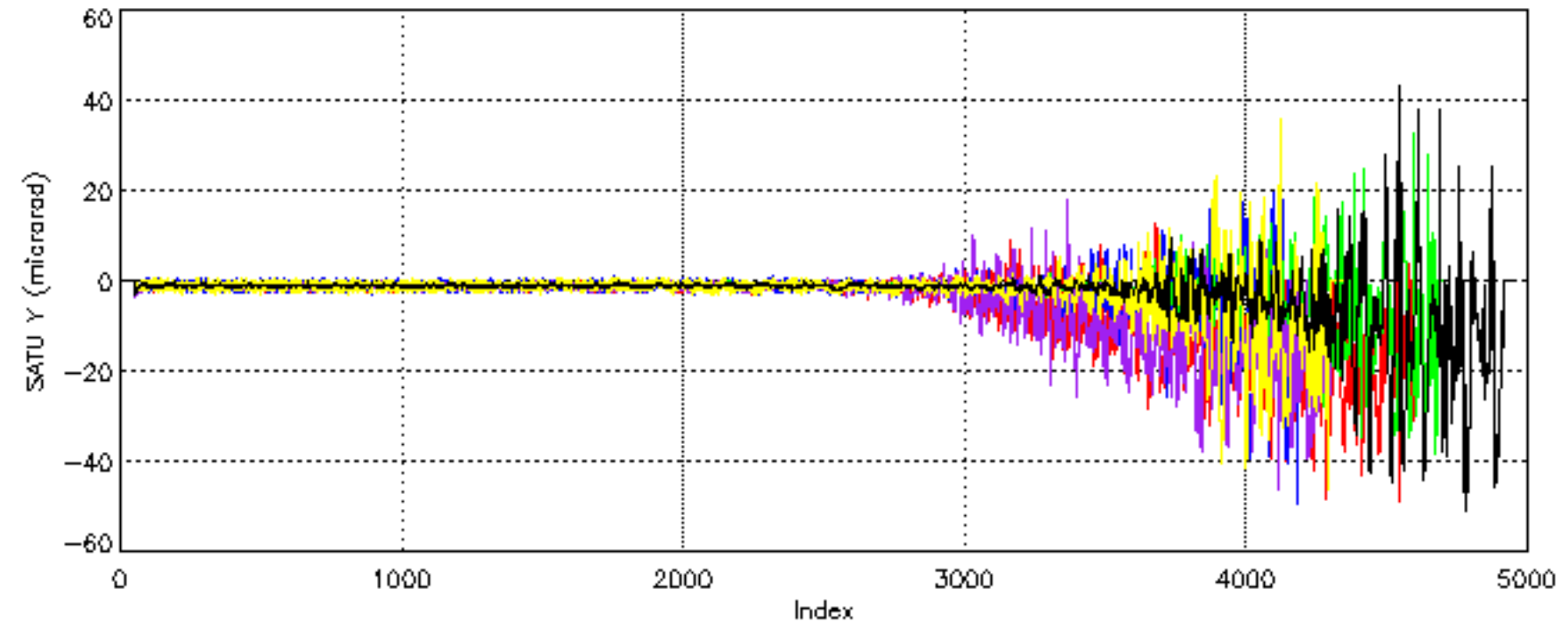
Tangent altitude at which the star is lost

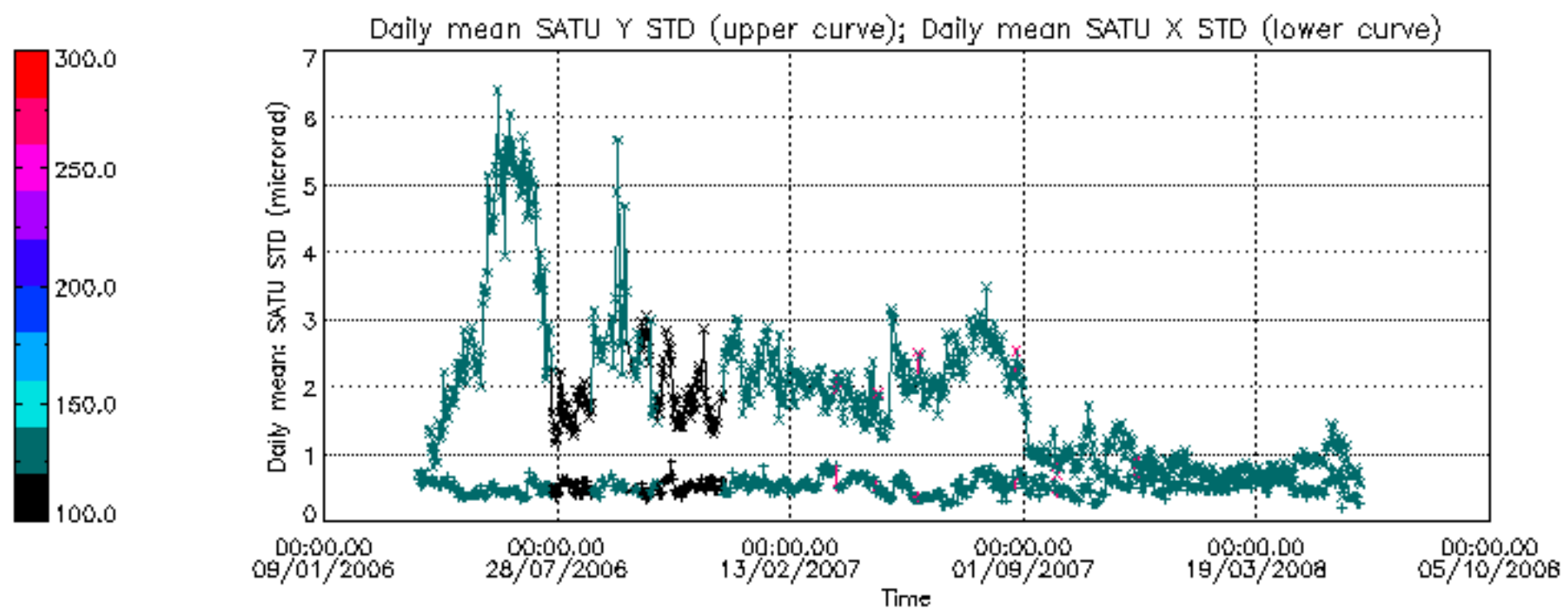


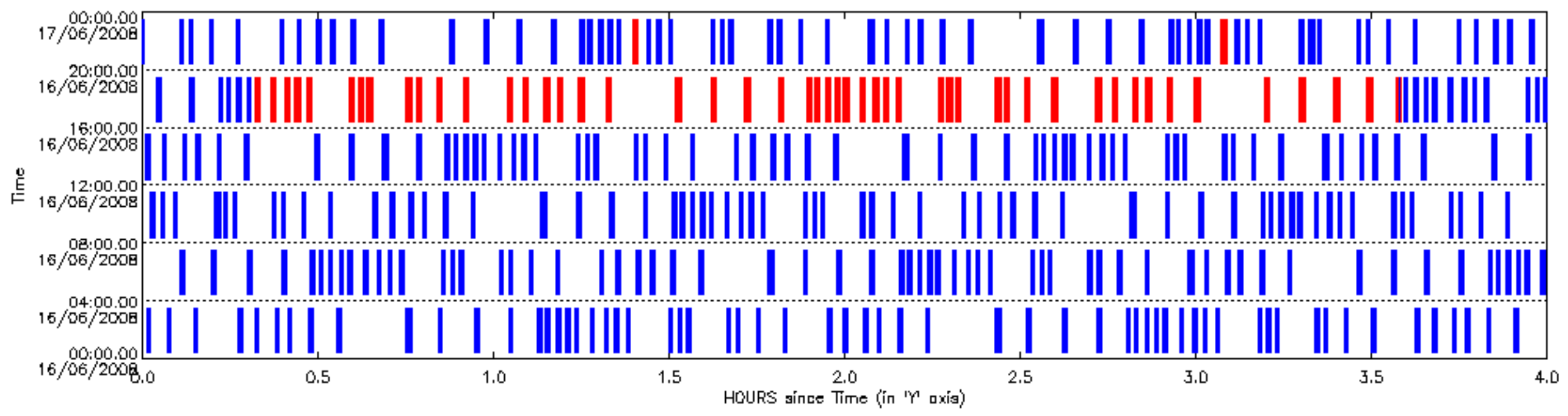
Tangent altitude at which the star is lost

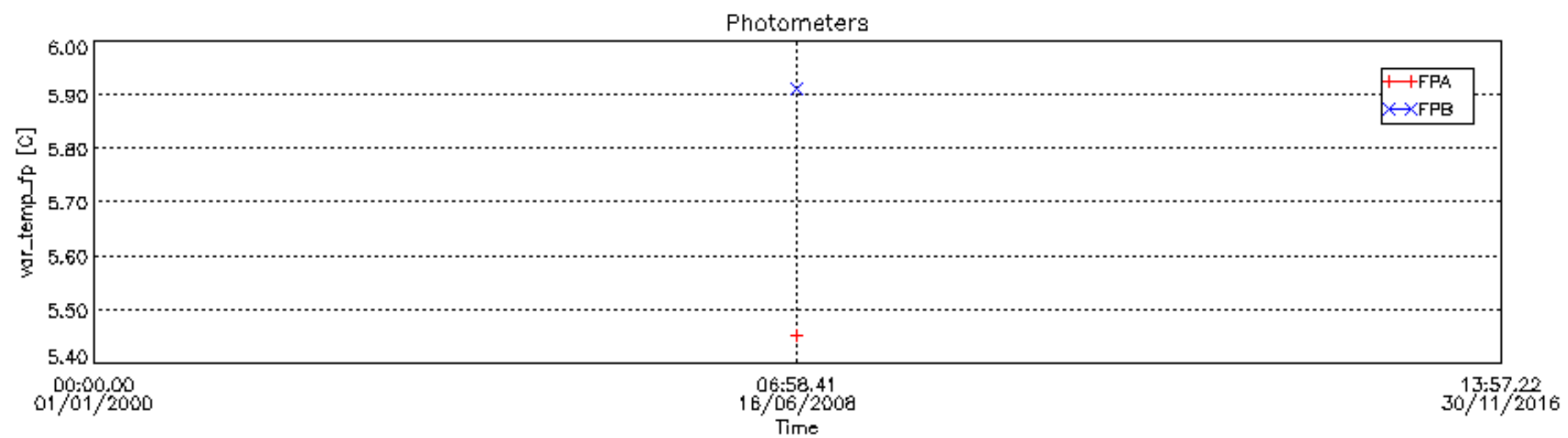
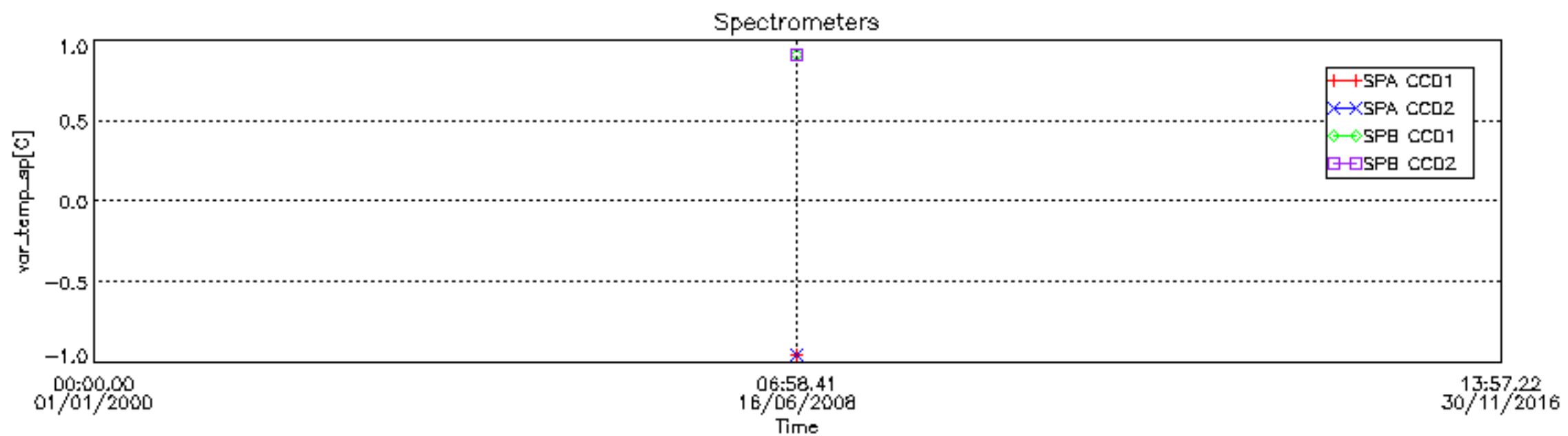




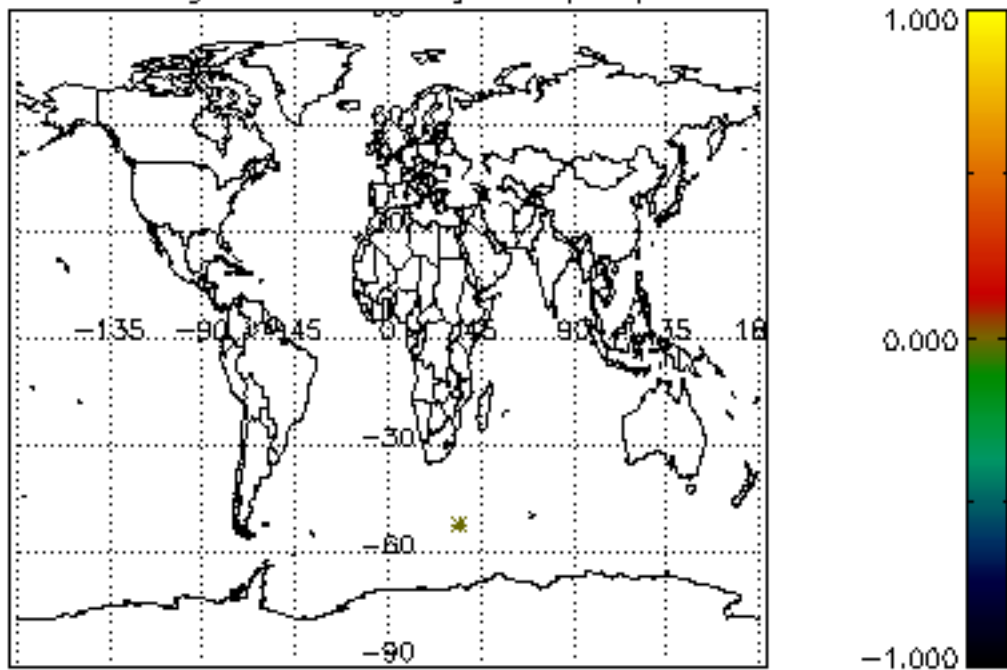




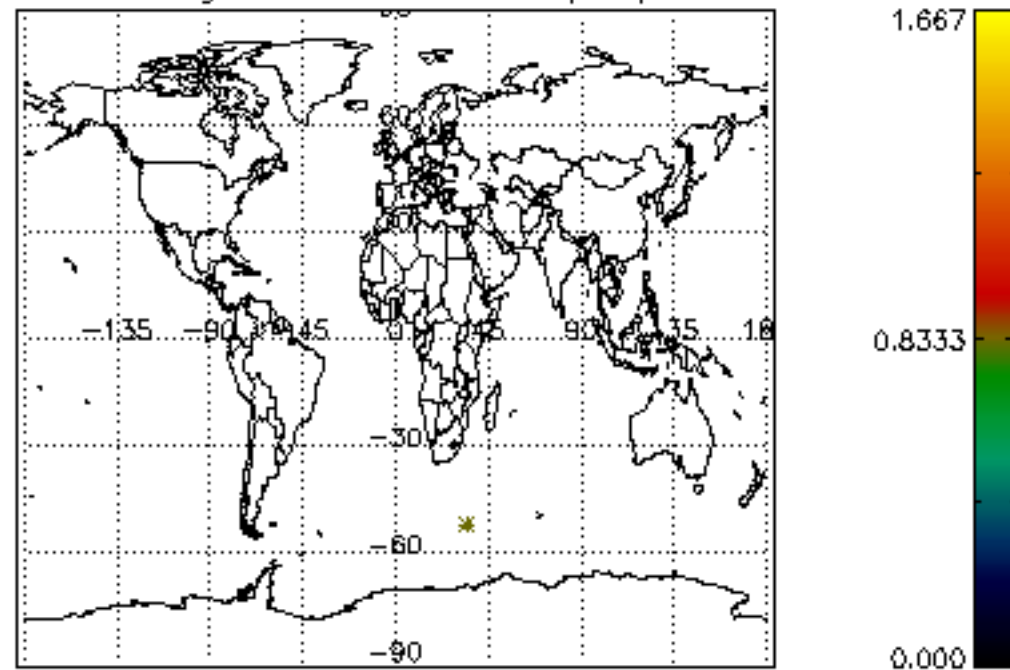




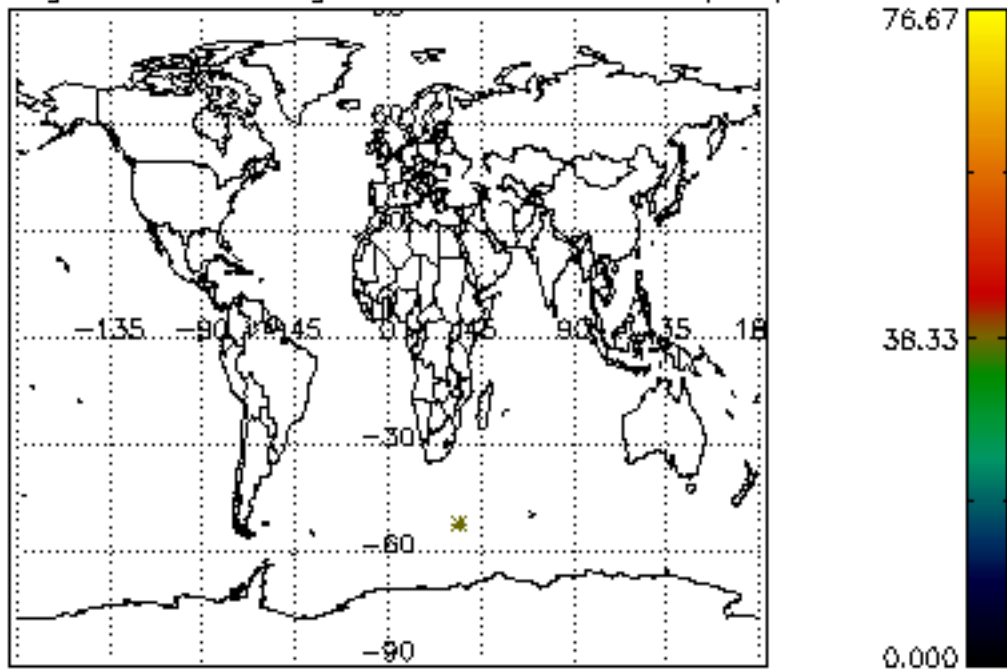
Percentage of cosmic ray hits per profile



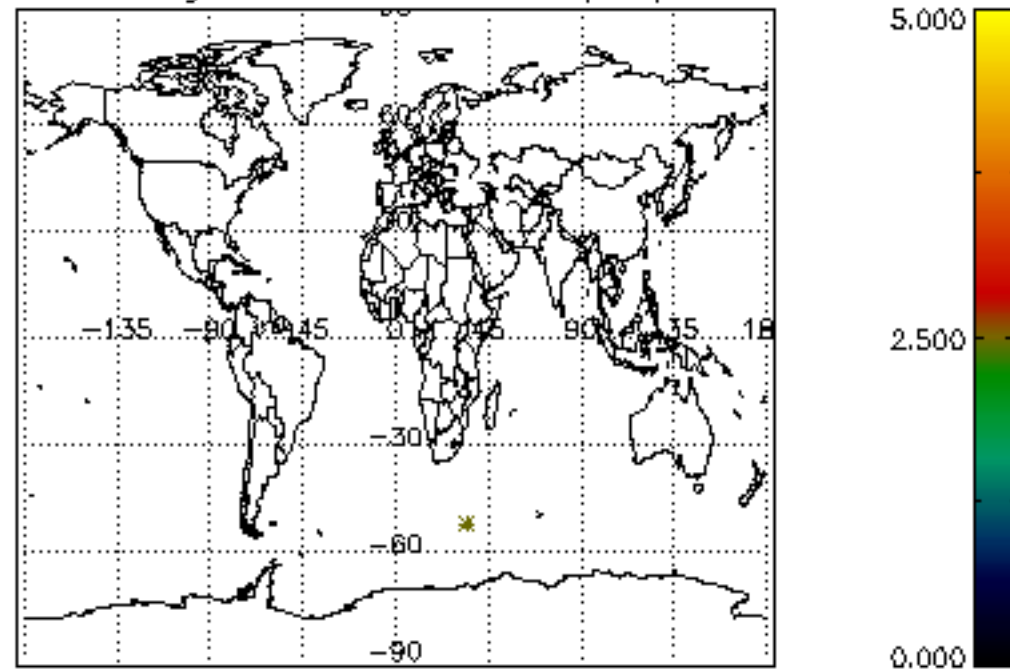
Percentage of datation errors per profile



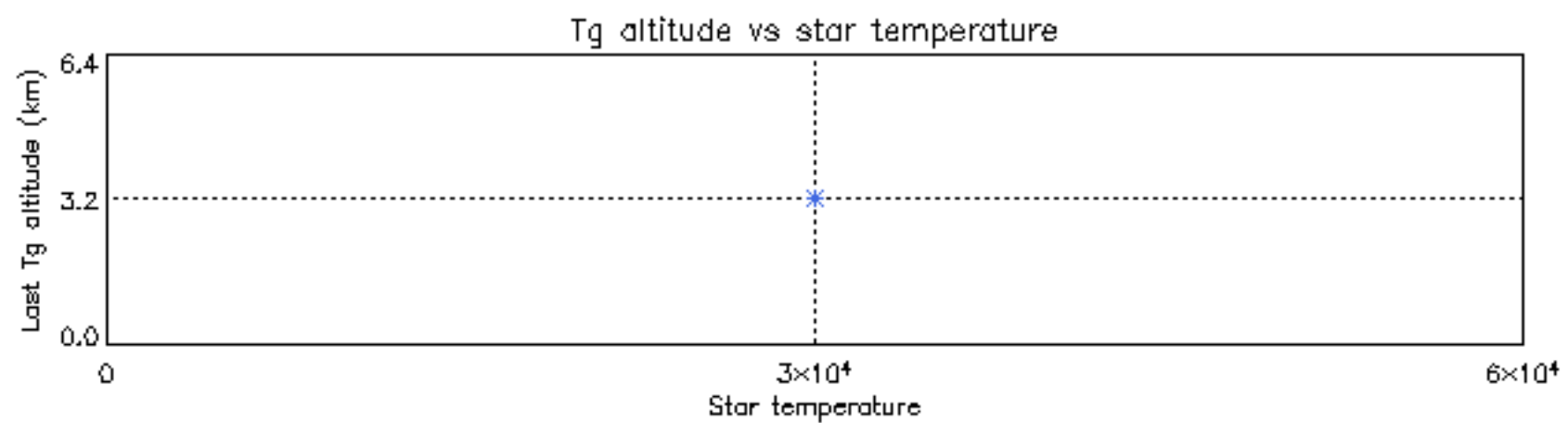
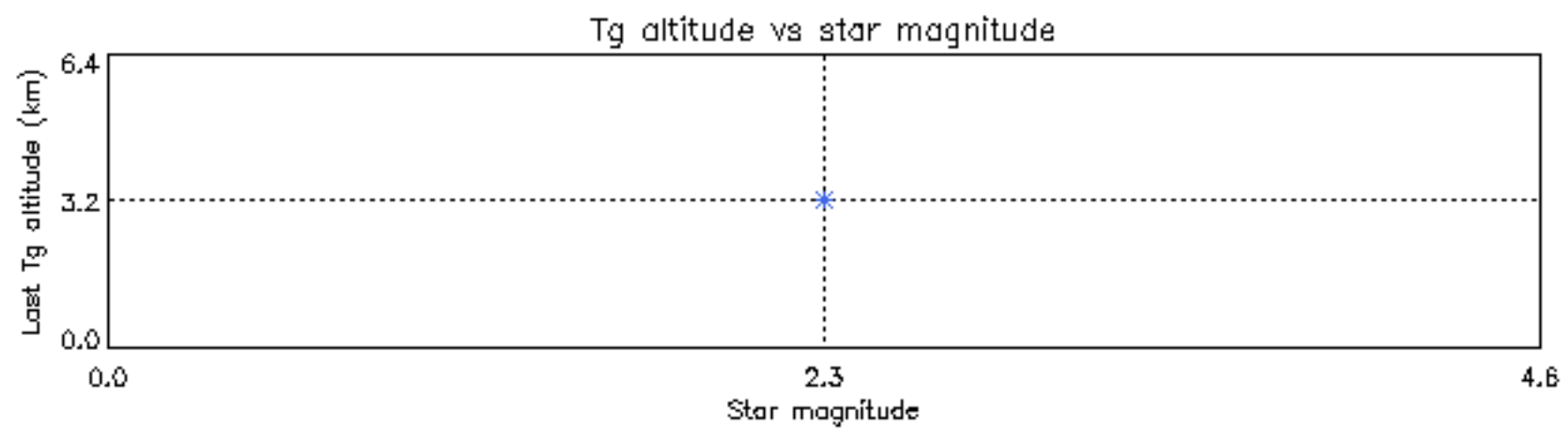
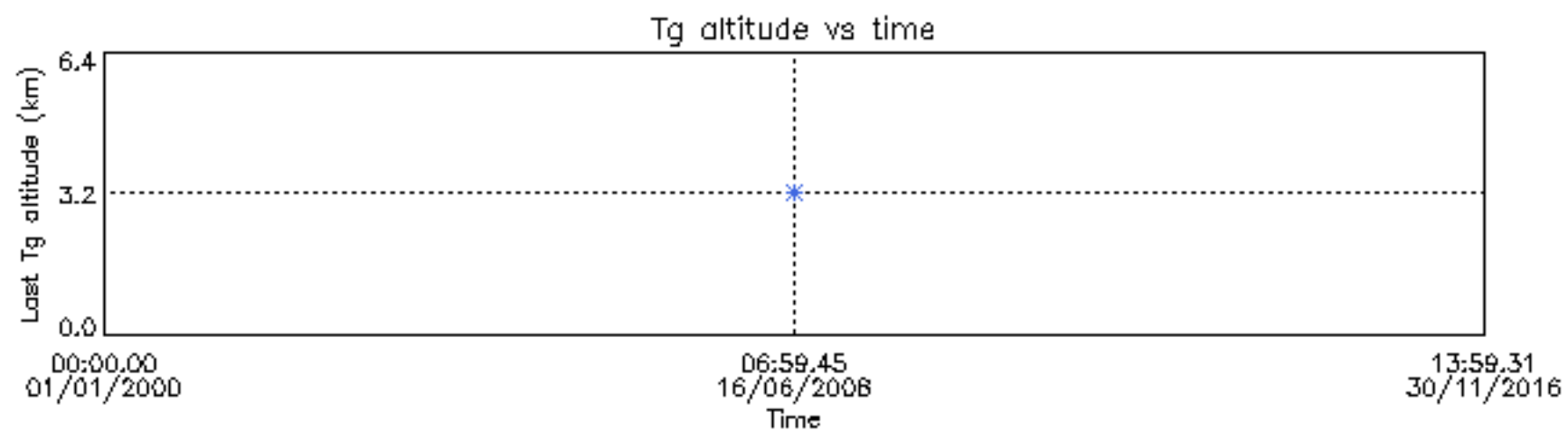
Percentage of star falling outside central band per profile

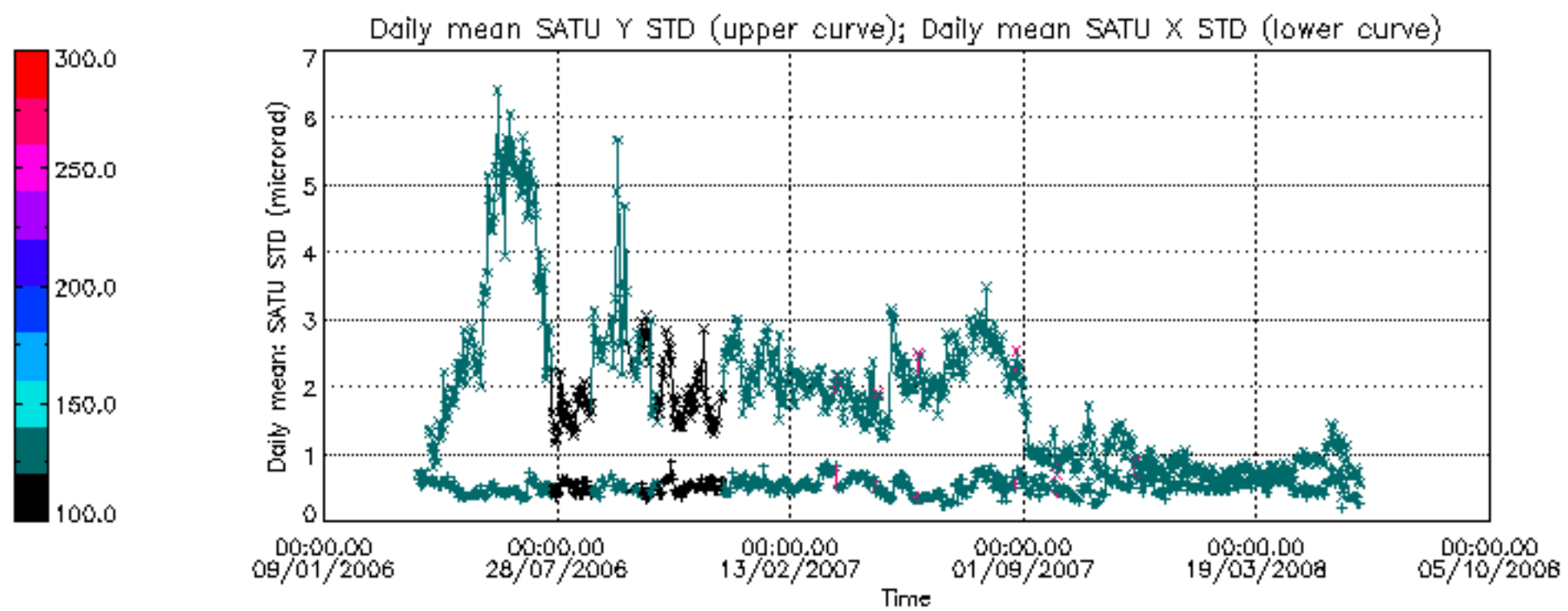


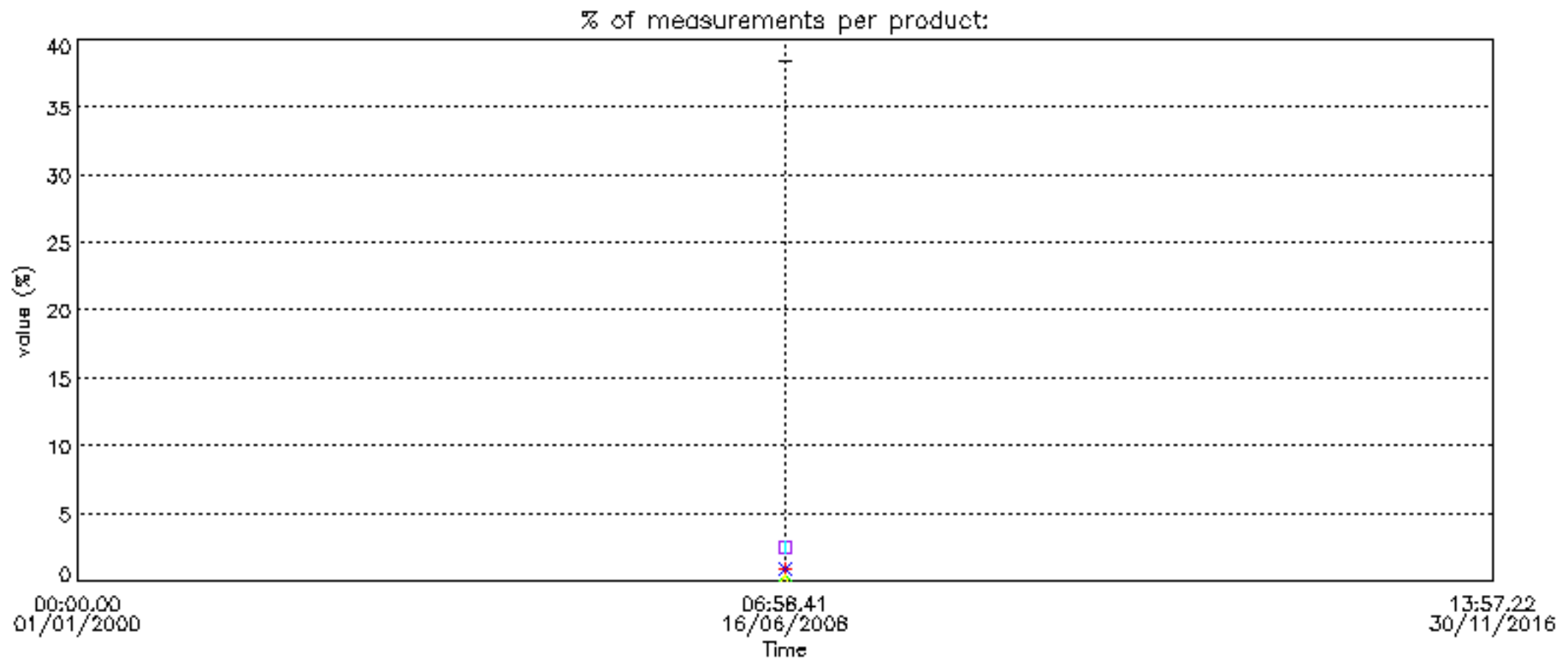
Percentage of saturation errors per profile



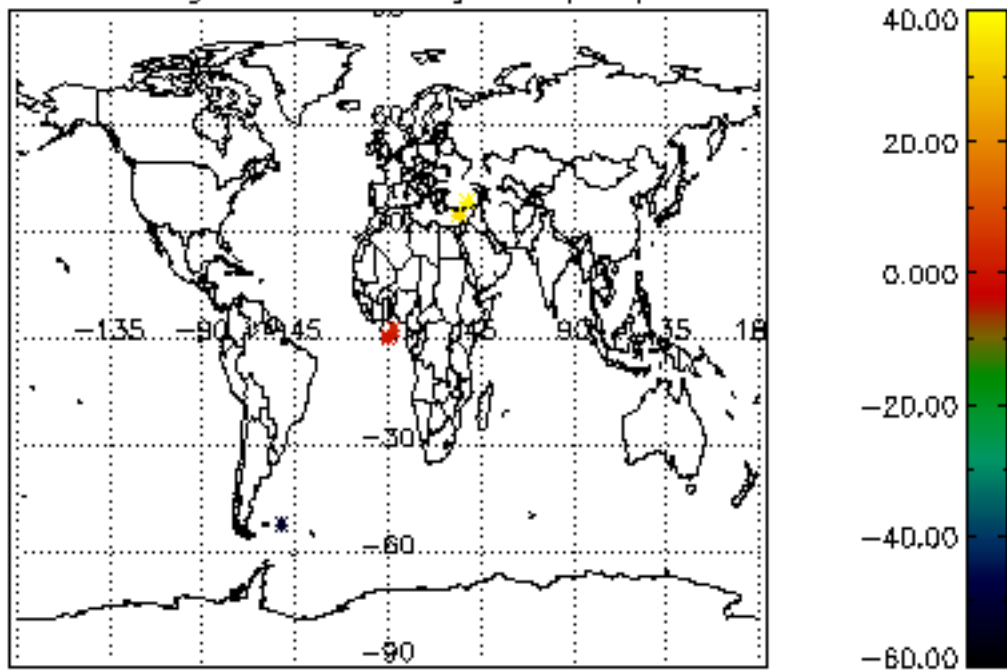
Tangent altitude at which the star is lost



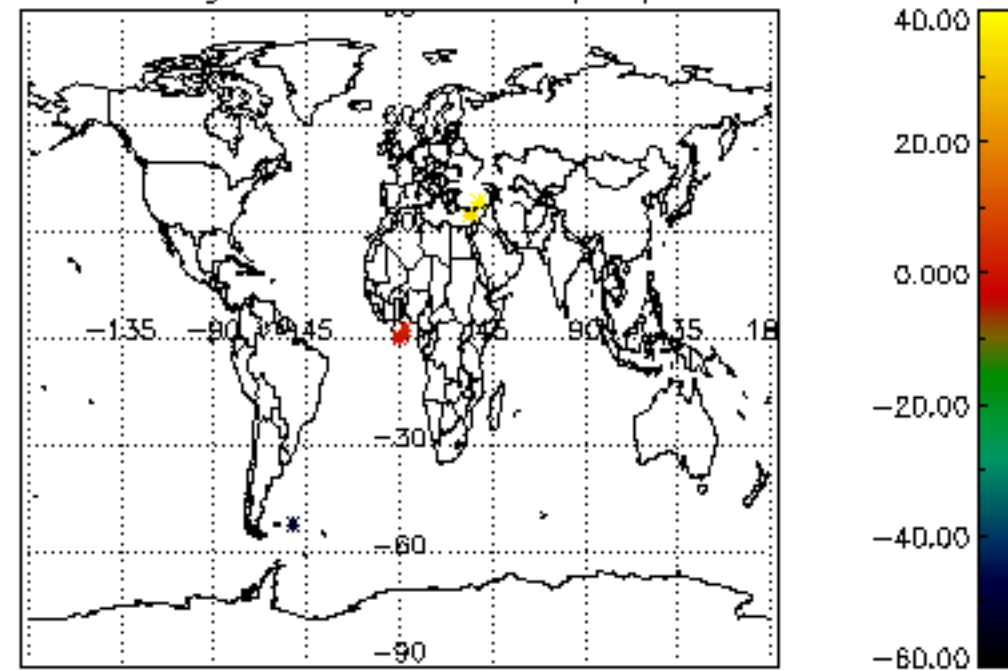




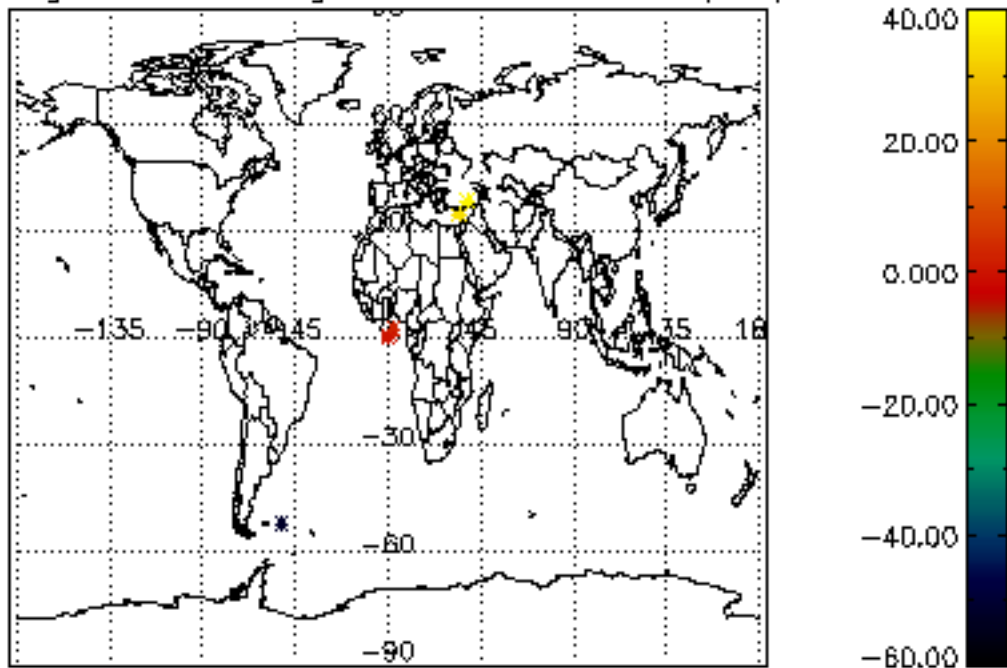
Percentage of cosmic ray hits per profile



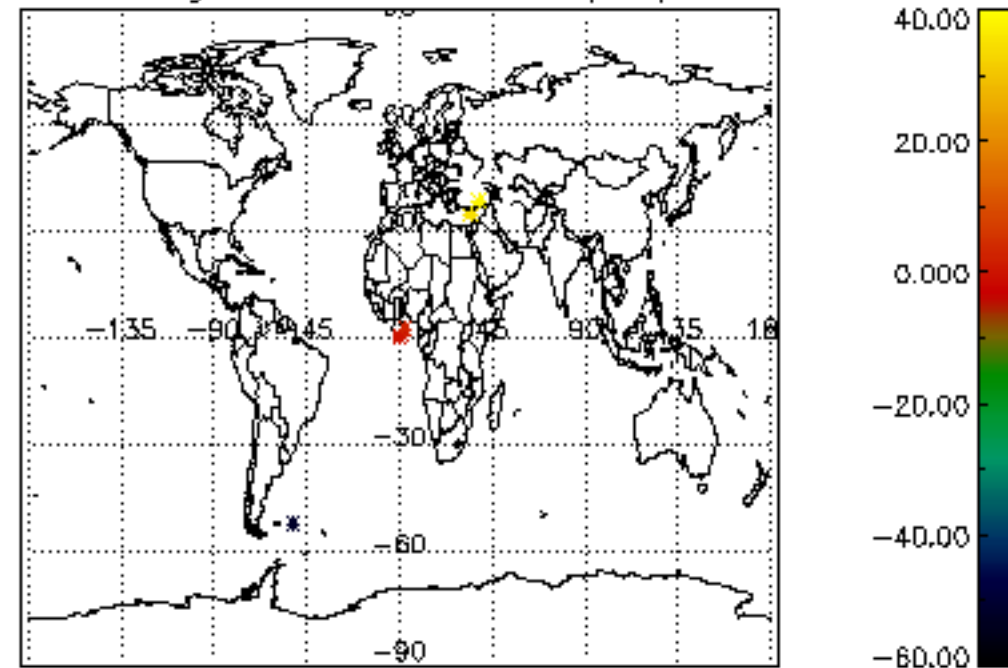
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693
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 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693
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 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693
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 22; 4394.6; 01-JUN-2008 01:36:27; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;32693
 23; 4557.0; 01-JUN-2008 01:39:10; Dark ; 53.5; 58; 21Alp And ; 2.07; 11000;occ; 107; 0;32693
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 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694
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 9; 1146.6; 01-JUN-2008 02:22:55; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32694
 10; 1252.2; 01-JUN-2008 02:24:41; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32694
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 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694
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13; 5824.7; 04-JUN-2008 10:29:02; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;32741
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 5; 2504.6; 04-JUN-2008 11:14:18; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32742
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 5; 2504.3; 04-JUN-2008 12:54:54; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32743
 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743
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 4; 2014.8; 04-JUN-2008 14:27:20; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32744
 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
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3; 1389.3; 05-JUN-2008 17:06:30; Dark ; 42.5; 136; 23Tau Sco ; 2.82; 30000;occ; 85; 0;32760
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7; 2300.6; 05-JUN-2008 17:21:41; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;32760
8; 2497.7; 05-JUN-2008 17:24:58; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32760
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21; 6573.2; 05-JUN-2008 18:32:54; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32760
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9; 2497.3; 05-JUN-2008 19:05:34; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32761
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3; -196.9; 06-JUN-2008 01:03:03; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;32764
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7; 539.7; 06-JUN-2008 01:15:20; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32765
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5; -679.8; 06-JUN-2008 02:35:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32765
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7; -196.2; 06-JUN-2008 02:43:40; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;32765
8; -18.8; 06-JUN-2008 02:46:37; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;32765
9; 145.4; 06-JUN-2008 02:49:21; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;32766
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13; 1174.7; 06-JUN-2008 03:06:31; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32766
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21; 2931.1; 06-JUN-2008 03:35:47; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;32766
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7; -195.7; 06-JUN-2008 04:24:16; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;32766
8; -17.5; 06-JUN-2008 04:27:14; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;32766
9; 146.2; 06-JUN-2008 04:29:58; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;32767
10; 264.3; 06-JUN-2008 04:31:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32767
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13; 1174.9; 06-JUN-2008 04:47:07; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32767
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17; 1706.8; 06-JUN-2008 04:55:59; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32767
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 5; 1708.1; 07-JUN-2008 21:10:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32791
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 9; 2486.6; 07-JUN-2008 21:23:21; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32791
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 7; 1078.6; 07-JUN-2008 22:40:29; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32792
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 13; 2042.4; 07-JUN-2008 22:56:33; Bright; 41.0; 126; 60Bet Oph ; 2.77; 4250;occ; 82; 0;32792
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19; 7236.2; 11-JUN-2008 08:51:51; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32840
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5; 2283.8; 11-JUN-2008 12:31:06; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32843
6; 2471.8; 11-JUN-2008 12:34:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32843

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13; 3177.8; 22-JUN-2008 20:23:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33005
14; 3446.2; 22-JUN-2008 20:27:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33005
15; 3870.8; 22-JUN-2008 20:34:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;33005
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6; 1246.1; 22-JUN-2008 21:31:26; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;33006
7; 1327.2; 22-JUN-2008 21:32:47; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33006
8; 1627.0; 22-JUN-2008 21:37:46; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;33006
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11; 2133.9; 22-JUN-2008 21:46:13; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33006
12; 2274.3; 22-JUN-2008 21:48:34; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33006
13; 2447.1; 22-JUN-2008 21:51:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33006
14; 2833.2; 22-JUN-2008 21:57:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33006
15; 2952.8; 22-JUN-2008 21:59:52; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33006
16; 3178.0; 22-JUN-2008 22:03:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33006
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21; 4415.5; 22-JUN-2008 22:24:15; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33006
22; 4936.2; 22-JUN-2008 22:32:56; Dark ; 48.0; 94; 92Alp Cet ; 2.53; 3100;occ; 96; 0;33006

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| 1; | -619.4; | 22-JUN-2008 | 22:40:56; | Dark | ; | 59.5; | 0; | ; | 0.00; | 0;occ; | 119; | 0;33006 | |
| 2; | -14.6; | 22-JUN-2008 | 22:51:01; | Dark | ; | 48.0; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 96; | 0;33006 |
| 3; | 377.3; | 22-JUN-2008 | 22:57:33; | Dark | ; | 50.5; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 101; | 0;33007 |
| 4; | 687.6; | 22-JUN-2008 | 23:02:43; | Dark | ; | 40.5; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 81; | 0;33007 |
| 5; | 1145.4; | 22-JUN-2008 | 23:10:21; | Dark | ; | 40.5; | 40; | The Sco | ; | 1.86; | 7100;occ; | 81; | 0;33007 |
| 6; | 1246.4; | 22-JUN-2008 | 23:12:02; | Dark | ; | 43.5; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 87; | 0;33007 |
| 7; | 1327.5; | 22-JUN-2008 | 23:13:23; | Dark | ; | 45.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 90; | 0;33007 |
| 8; | 1627.2; | 22-JUN-2008 | 23:18:22; | Bright; | ; | 37.0; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 74; | 0;33007 |
| 9; | 1731.0; | 22-JUN-2008 | 23:20:06; | Bright; | ; | 36.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 73; | 0;33007 |
| 10; | 1989.2; | 22-JUN-2008 | 23:24:24; | Bright; | ; | 39.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 79; | 0;33007 |
| 11; | 2133.7; | 22-JUN-2008 | 23:26:49; | Bright; | ; | 40.0; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 80; | 0;33007 |
| 12; | 2274.5; | 22-JUN-2008 | 23:29:10; | Bright; | ; | 36.5; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 73; | 0;33007 |
| 13; | 2447.2; | 22-JUN-2008 | 23:32:02; | Bright; | ; | 35.5; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 71; | 0;33007 |
| 14; | 2832.9; | 22-JUN-2008 | 23:38:28; | Bright; | ; | 39.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 79; | 0;33007 |
| 15; | 2952.8; | 22-JUN-2008 | 23:40:28; | Bright; | ; | 37.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 74; | 0;33007 |
| 16; | 3178.0; | 22-JUN-2008 | 23:44:13; | Bright; | ; | 39.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 78; | 0;33007 |
| 17; | 3446.1; | 22-JUN-2008 | 23:48:41; | Bright; | ; | 35.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 70; | 0;33007 |
| 18; | 3870.1; | 22-JUN-2008 | 23:55:45; | Bright; | ; | 50.0; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 100; | 0;33007 |
| 19; | 4065.3; | 22-JUN-2008 | 23:59:01; | Bright; | ; | 34.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 68; | 0;33007 |
| 20; | 4270.8; | 23-JUN-2008 | 00:02:26; | Bright; | ; | 43.5; | 73; | 57Gam1And | ; | 2.26; | 13100;occ; | 87; | 0;33007 |
| 21; | 4415.8; | 23-JUN-2008 | 00:04:51; | Dark | ; | 44.0; | 173; | 4Bet Tri | ; | 3.00; | 8900;occ; | 88; | 0;33007 |
| 22; | 4936.5; | 23-JUN-2008 | 00:13:32; | Dark | ; | 45.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 91; | 0;33007 |
| 23; | 5417.1; | 23-JUN-2008 | 00:21:32; | Dark | ; | 20.0; | 0; | ; | ; | 0.00; | 0;occ; | 40; | 0;33007 |
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| 1; | -2162.8; | 22-JUN-2008 | 07:09:49; | Bright; | ; | 40.0; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 80; | 0;32997 |
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| 4; | -1621.0; | 22-JUN-2008 | 07:18:51; | Dark | ; | 44.0; | 173; | 4Bet Tri | ; | 3.00; | 8900;occ; | 88; | 0;32997 |
| 5; | -1102.4; | 22-JUN-2008 | 07:27:30; | Dark | ; | 37.0; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 74; | 0;32997 |
| 6; | -625.3; | 22-JUN-2008 | 07:35:27; | Dark | ; | 59.5; | 0; | ; | ; | 0.00; | 0;occ; | 119; | 0;32997 |
| 7; | -18.3; | 22-JUN-2008 | 07:45:34; | Dark | ; | 43.5; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 87; | 0;32997 |
| 8; | 368.6; | 22-JUN-2008 | 07:52:01; | Dark | ; | 49.0; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 98; | 0;32998 |
| 9; | 682.7; | 22-JUN-2008 | 07:57:15; | Dark | ; | 41.0; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 82; | 0;32998 |
| 10; | 1143.2; | 22-JUN-2008 | 08:04:55; | Dark | ; | 42.0; | 40; | The Sco | ; | 1.86; | 7100;occ; | 84; | 0;32998 |
| 11; | 1244.2; | 22-JUN-2008 | 08:06:36; | Dark | ; | 42.5; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 85; | 0;32998 |
| 12; | 1325.1; | 22-JUN-2008 | 08:07:57; | Dark | ; | 46.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 92; | 0;32998 |
| 13; | 1401.0; | 22-JUN-2008 | 08:09:13; | Bright; | ; | 45.5; | 137; | 22Lam Sgr | ; | 2.82; | 4400;occ; | 91; | 0;32998 |
| 14; | 1626.1; | 22-JUN-2008 | 08:12:58; | Bright; | ; | 37.0; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 74; | 0;32998 |
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| 2; | 1729.9; | 22-JUN-2008 | 08:14:42; | Bright; | ; | 34.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 69; | 0;32998 |
| 3; | 1990.3; | 22-JUN-2008 | 08:19:02; | Bright; | ; | 40.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 80; | 0;32998 |
| 4; | 2135.2; | 22-JUN-2008 | 08:21:27; | Bright; | ; | 39.0; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 78; | 0;32998 |
| 5; | 2274.4; | 22-JUN-2008 | 08:23:46; | Bright; | ; | 36.5; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 73; | 0;32998 |
| 6; | 2447.8; | 22-JUN-2008 | 08:26:40; | Bright; | ; | 36.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 72; | 0;32998 |
| 7; | 2835.5; | 22-JUN-2008 | 08:33:07; | Bright; | ; | 38.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 77; | 0;32998 |
| 8; | 2953.2; | 22-JUN-2008 | 08:35:05; | Bright; | ; | 36.5; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 73; | 0;32998 |
| 9; | 3177.2; | 22-JUN-2008 | 08:38:49; | Bright; | ; | 36.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 73; | 0;32998 |
| 10; | 3446.2; | 22-JUN-2008 | 08:43:18; | Bright; | ; | 36.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 73; | 0;32998 |
| 11; | 3872.8; | 22-JUN-2008 | 08:50:25; | Bright; | ; | 42.0; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 84; | 0;32998 |
| 12; | 4065.1; | 22-JUN-2008 | 08:53:37; | Bright; | ; | 39.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 78; | 0;32998 |
| 13; | 4270.9; | 22-JUN-2008 | 08:57:03; | Bright; | ; | 44.5; | 73; | 57Gam1And | ; | 2.26; | 13100;occ; | 89; | 0;32998 |
| 14; | 4415.1; | 22-JUN-2008 | 08:59:27; | Dark | ; | 44.0; | 173; | 4Bet Tri | ; | 3.00; | 8900;occ; | 88; | 0;32998 |
| 15; | 4933.8; | 22-JUN-2008 | 09:08:06; | Dark | ; | 36.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 73; | 0;32998 |
| 16; | 5411.3; | 22-JUN-2008 | 09:16:03; | Dark | ; | 59.5; | 0; | ; | ; | 0.00; | 0;occ; | 119; | 0;32998 |
| 17; | 6018.0; | 22-JUN-2008 | 09:26:10; | Dark | ; | 49.0; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 98; | 0;32998 |
| 18; | 6405.4; | 22-JUN-2008 | 09:32:37; | Dark | ; | 54.0; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 108; | 0;32998 |
| 19; | 6719.2; | 22-JUN-2008 | 09:37:51; | Dark | ; | 43.0; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 86; | 0;32998 |
| 20; | 7179.4; | 22-JUN-2008 | 09:45:31; | Dark | ; | 41.0; | 40; | The Sco | ; | 1.86; | 7100;occ; | 82; | 0;32998 |
| 21; | 7280.5; | 22-JUN-2008 | 09:47:12; | Dark | ; | 43.0; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 86; | 0;32998 |
| 22; | 7361.2; | 22-JUN-2008 | 09:48:33; | Dark | ; | 58.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 116; | 0;32998 |
| 23; | 7437.2; | 22-JUN-2008 | 09:49:49; | Bright; | ; | 43.5; | 137; | 22Lam Sgr | ; | 2.82; | 4400;occ; | 87; | 0;32998 |
| 24; | 7662.0; | 22-JUN-2008 | 09:53:34; | Bright; | ; | 38.5; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 77; | 0;32998 |
| 25; | 7765.8; | 22-JUN-2008 | 09:55:18; | Bright; | ; | 35.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 70; | 1;32998 |
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| 2; | 1990.3; | 22-JUN-2008 | 09:59:38; | Bright; | ; | 39.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 79; | 0;32999 |
| 3; | 2135.0; | 22-JUN-2008 | 10:02:03; | Bright; | ; | 41.0; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 82; | 0;32999 |


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5; 2447.7; 22-JUN-2008 10:07:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;32999
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8; 3177.2; 22-JUN-2008 10:19:25; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32999
9; 3446.2; 22-JUN-2008 10:23:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32999
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20; 7280.7; 22-JUN-2008 11:27:49; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32999
21; 7361.5; 22-JUN-2008 11:29:09; Dark ; 52.0; 116; 19Del Sgr ; 2.70; 4100;occ; 104; 0;32999
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 2; -1970.6; 23-JUN-2008 05:00:48; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33010
 3; -1765.1; 23-JUN-2008 05:04:14; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;33010


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4;-1619.8; 23-JUN-2008 05:06:39; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;33010
5;-1388.3; 23-JUN-2008 05:10:31; Dark ; 51.5; 50; 13Alp Ari ; 2.01; 4250;occ; 103; 0;33010
6;-1098.4; 23-JUN-2008 05:15:21; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;33010
7; -616.7; 23-JUN-2008 05:23:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33010
8; -12.8; 23-JUN-2008 05:33:26; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33010
9; 381.4; 23-JUN-2008 05:40:00; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33011
10; 690.0; 23-JUN-2008 05:45:09; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33011
11; 1146.7; 23-JUN-2008 05:52:46; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33011
12; 1247.5; 23-JUN-2008 05:54:26; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33011
13; 1328.7; 23-JUN-2008 05:55:48; Dark ; 42.5; 116; 19Del Sgr ; 2.70; 4100;occ; 85; 0;33011
14; 1627.8; 23-JUN-2008 06:00:47; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33011
15; 1731.7; 23-JUN-2008 06:02:31; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33011
16; 1988.9; 23-JUN-2008 06:06:48; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33011
17; 2133.1; 23-JUN-2008 06:09:12; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33011
18; 2274.8; 23-JUN-2008 06:11:34; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33011
19; 2447.0; 23-JUN-2008 06:14:26; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33011
20; 2832.0; 23-JUN-2008 06:20:51; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33011
21; 2952.7; 23-JUN-2008 06:22:52; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33011
22; 3178.6; 23-JUN-2008 06:26:38; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33011
23; 3446.2; 23-JUN-2008 06:31:05; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33011
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2; 1249.7; 23-JUN-2008 20:59:52; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33020
3; 1331.1; 23-JUN-2008 21:01:13; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;33020
4; 1629.0; 23-JUN-2008 21:06:11; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33020
5; 1732.7; 23-JUN-2008 21:07:55; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33020
6; 1987.8; 23-JUN-2008 21:12:10; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33020
7; 2131.6; 23-JUN-2008 21:14:34; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;33020
8; 2274.9; 23-JUN-2008 21:16:57; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33020
9; 2446.7; 23-JUN-2008 21:19:49; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33020
10; 2829.5; 23-JUN-2008 21:26:12; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33020
11; 2952.3; 23-JUN-2008 21:28:15; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;33020
12; 3179.3; 23-JUN-2008 21:32:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33020
13; 3446.1; 23-JUN-2008 21:36:28; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33020
14; 3866.4; 23-JUN-2008 21:43:29; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;33020
15; 4065.3; 23-JUN-2008 21:46:48; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;33020
16; 4288.8; 23-JUN-2008 21:50:31; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;33020
17; 4650.4; 23-JUN-2008 21:56:33; Dark ; 57.0; 50; 13Alp Ari ; 2.01; 4250;occ; 114; 0;33020
18; 4940.9; 23-JUN-2008 22:01:23; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33020
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3; 391.1; 23-JUN-2008 22:26:09; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;33021
4; 695.4; 23-JUN-2008 22:31:14; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33021
5; 1149.0; 23-JUN-2008 22:38:47; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33021
6; 1249.8; 23-JUN-2008 22:40:28; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;33021
7; 1331.3; 23-JUN-2008 22:41:50; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33021
8; 1629.2; 23-JUN-2008 22:46:47; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33021
9; 1732.9; 23-JUN-2008 22:48:31; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33021
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11; 2131.5; 23-JUN-2008 22:55:10; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;33021
12; 2274.9; 23-JUN-2008 22:57:33; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33021
13; 2446.8; 23-JUN-2008 23:00:25; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33021
14; 2829.4; 23-JUN-2008 23:06:48; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;33021
15; 2952.2; 23-JUN-2008 23:08:50; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33021
16; 3179.5; 23-JUN-2008 23:12:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33021
17; 3446.1; 23-JUN-2008 23:17:04; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33021
18; 3866.1; 23-JUN-2008 23:24:04; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;33021
19; 4065.3; 23-JUN-2008 23:27:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33021
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21; 4650.6; 23-JUN-2008 23:37:09; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;33021
22; 4941.2; 23-JUN-2008 23:41:59; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;33021
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2;-1970.6; 23-JUN-2008 06:41:24; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;33011
3;-1765.1; 23-JUN-2008 06:44:50; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;33011
4;-1619.8; 23-JUN-2008 06:47:15; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;33011
5;-1388.1; 23-JUN-2008 06:51:07; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33011

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7; -616.0; 23-JUN-2008 07:03:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33011
8; -12.4; 23-JUN-2008 07:14:03; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33011
9; 382.4; 23-JUN-2008 07:20:37; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;33012
10; 690.6; 23-JUN-2008 07:25:46; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33012
11; 1146.9; 23-JUN-2008 07:33:22; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33012
12; 1247.9; 23-JUN-2008 07:35:03; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33012
13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012
14; 1628.1; 23-JUN-2008 07:41:23; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33012
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3; 2132.9; 23-JUN-2008 07:49:48; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33012
4; 2274.7; 23-JUN-2008 07:52:10; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33012
5; 2447.1; 23-JUN-2008 07:55:02; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33012
6; 2831.7; 23-JUN-2008 08:01:27; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33012
7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
8; 3178.6; 23-JUN-2008 08:07:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33012
9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012
10; 3868.8; 23-JUN-2008 08:18:44; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;33012
11; 4065.5; 23-JUN-2008 08:22:00; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33012
12; 4270.8; 23-JUN-2008 08:25:26; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33012
13; 4416.4; 23-JUN-2008 08:27:51; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;33012
14; 4648.2; 23-JUN-2008 08:31:43; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33012
15; 4938.3; 23-JUN-2008 08:36:33; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;33012
16; 5420.6; 23-JUN-2008 08:44:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33012
17; 6024.0; 23-JUN-2008 08:54:39; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33012
18; 6419.3; 23-JUN-2008 09:01:14; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;33012
19; 6727.0; 23-JUN-2008 09:06:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33012
20; 7183.0; 23-JUN-2008 09:13:58; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33012
21; 7283.9; 23-JUN-2008 09:15:39; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33012
22; 7365.2; 23-JUN-2008 09:17:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;33012
23; 7664.1; 23-JUN-2008 09:21:59; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33012
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3; 2132.7; 23-JUN-2008 09:30:24; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33013
4; 2274.8; 23-JUN-2008 09:32:46; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33013
5; 2447.0; 23-JUN-2008 09:35:38; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33013
6; 2831.5; 23-JUN-2008 09:42:02; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33013
7; 2952.6; 23-JUN-2008 09:44:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33013
8; 3178.8; 23-JUN-2008 09:47:50; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33013
9; 3446.2; 23-JUN-2008 09:52:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33013
10; 3868.6; 23-JUN-2008 09:59:19; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33013
11; 4065.5; 23-JUN-2008 10:02:36; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33013
12; 4270.8; 23-JUN-2008 10:06:02; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;33013
13; 4416.4; 23-JUN-2008 10:08:27; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;33013
14; 4648.4; 23-JUN-2008 10:12:19; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33013
15; 4938.5; 23-JUN-2008 10:17:09; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33013
16; 5421.2; 23-JUN-2008 10:25:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33013
17; 6024.4; 23-JUN-2008 10:35:15; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33013
18; 6420.2; 23-JUN-2008 10:41:51; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33013
19; 6727.5; 23-JUN-2008 10:46:58; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33013
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21; 7284.1; 23-JUN-2008 10:56:15; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33013
22; 7365.5; 23-JUN-2008 10:57:36; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33013
23; 7664.1; 23-JUN-2008 11:02:35; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;33013

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4; 695.9; 24-JUN-2008 00:11:50; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33022
5; 1149.2; 24-JUN-2008 00:19:23; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33022
6; 1250.1; 24-JUN-2008 00:21:04; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33022
7; 1331.6; 24-JUN-2008 00:22:26; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33022
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15; 2952.2; 24-JUN-2008 00:49:26; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33022
16; 3179.6; 24-JUN-2008 00:53:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33022
17; 3446.1; 24-JUN-2008 00:57:40; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33022
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21; 4650.9; 24-JUN-2008 01:17:45; Dark ; 53.5; 50; 13Alp Ari ; 2.01; 4250;occ; 107; 0;33022
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3; 1988.6; 23-JUN-2008 11:08:35; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33014
4; 2132.5; 23-JUN-2008 11:10:59; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33014
5; 2274.8; 23-JUN-2008 11:13:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33014
6; 2447.0; 23-JUN-2008 11:16:14; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33014
7; 2831.1; 23-JUN-2008 11:22:38; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33014
8; 2952.5; 23-JUN-2008 11:24:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33014
9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
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17; 5421.9; 23-JUN-2008 12:05:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33014
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22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
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4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

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6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016
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13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016
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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018
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5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018
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 22; 7666.2; 24-JUN-2008 12:11:36; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33028

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 13; 4652.8; 24-JUN-2008 13:01:58; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;33029
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 22; 7444.7; 24-JUN-2008 13:48:30; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;33029

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 7; 2952.2; 24-JUN-2008 14:14:14; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33030
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 17; 6736.8; 24-JUN-2008 15:17:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33030
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 8; 2952.0; 24-JUN-2008 15:54:49; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33031
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 6; 2130.0; 24-JUN-2008 17:21:43; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;33032
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4; 2279.9; 28-JUN-2008 10:15:57; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33085
5; 2446.5; 28-JUN-2008 10:18:44; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;33085
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7; 2951.7; 28-JUN-2008 10:27:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33085
8; 3187.2; 28-JUN-2008 10:31:05; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;33085
9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
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11; 4164.1; 28-JUN-2008 10:47:22; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33085
12; 4293.1; 28-JUN-2008 10:49:31; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;33085
13; 4964.4; 28-JUN-2008 11:00:42; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33085
14; 5192.8; 28-JUN-2008 11:04:30; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33085
15; 5697.6; 28-JUN-2008 11:12:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33085
16; 6056.7; 28-JUN-2008 11:18:54; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33085
17; 6344.8; 28-JUN-2008 11:23:42; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33085
18; 6500.2; 28-JUN-2008 11:26:18; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33085
19; 6765.5; 28-JUN-2008 11:30:43; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33085
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21; 7092.7; 28-JUN-2008 11:36:10; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33085
22; 7200.3; 28-JUN-2008 11:37:58; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33085
23; 7300.5; 28-JUN-2008 11:39:38; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33085
24; 7384.1; 28-JUN-2008 11:41:02; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33085
25; 7674.2; 28-JUN-2008 11:45:52; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33085

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 9; 3187.4; 28-JUN-2008 12:11:41; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33086
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 22; 7092.9; 28-JUN-2008 13:16:46; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;33086
 23; 7200.6; 28-JUN-2008 13:18:34; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33086
 24; 7300.6; 28-JUN-2008 13:20:14; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33086
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 5; 2280.2; 28-JUN-2008 13:37:09; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33087
 6; 2446.7; 28-JUN-2008 13:39:56; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33087
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 19; 6501.6; 28-JUN-2008 14:47:31; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;33087
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 23; 7200.9; 28-JUN-2008 14:59:10; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33087
 24; 7300.9; 28-JUN-2008 15:00:50; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;33087
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 4; 2123.9; 28-JUN-2008 15:15:09; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33088
 5; 2280.2; 28-JUN-2008 15:17:45; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33088
 6; 2446.7; 28-JUN-2008 15:20:32; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33088
 7; 2814.5; 28-JUN-2008 15:26:40; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33088
 8; 2951.7; 28-JUN-2008 15:28:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33088
 9; 3187.7; 28-JUN-2008 15:32:53; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33088
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 19; 6502.3; 28-JUN-2008 16:28:07; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33088
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 4; 1743.5; 28-JUN-2008 16:49:25; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33089
 5; 1983.1; 28-JUN-2008 16:53:24; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33089
 6; 2123.9; 28-JUN-2008 16:55:45; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33089
 7; 2280.4; 28-JUN-2008 16:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33089
 8; 2446.7; 28-JUN-2008 17:01:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33089
 9; 2814.2; 28-JUN-2008 17:07:15; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33089
 10; 2951.7; 28-JUN-2008 17:09:33; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;33089
 11; 3187.8; 28-JUN-2008 17:13:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;33089
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 23; 6503.4; 28-JUN-2008 19:49:21; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33090
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 5; 733.6; 29-JUN-2008 00:55:34; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33094
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