

GOMOS Daily Report 22-MAY-2009

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 | 26MAY2009 04:39:06 |
| Data source version | GOMOS/5.00 |
| Start time of products | 22MAY2009 00:05:41 |
| Stop time of products | 22MAY2009 05:42:59 |
| 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)

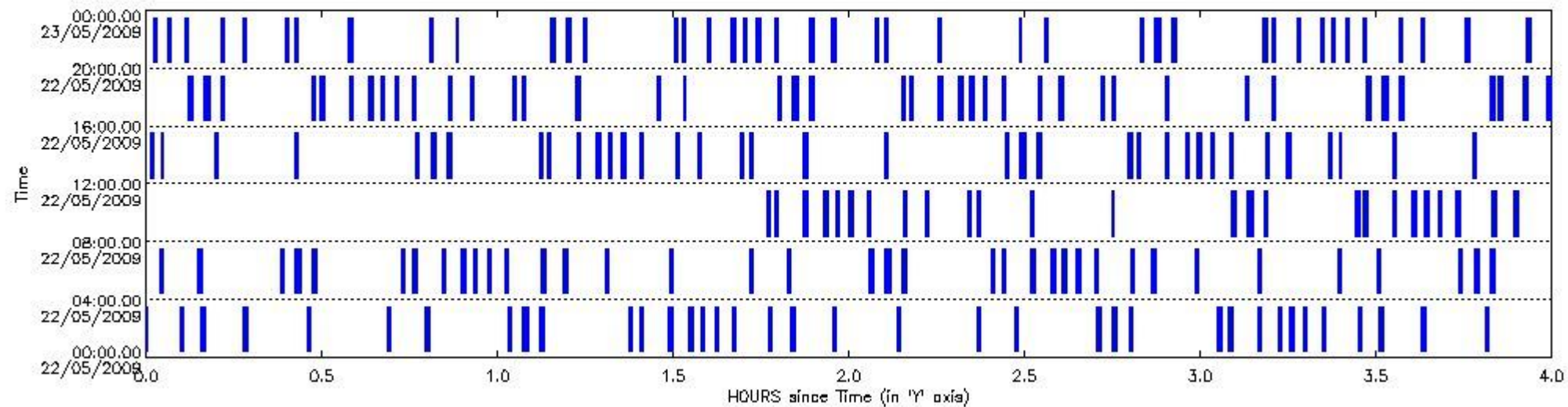
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

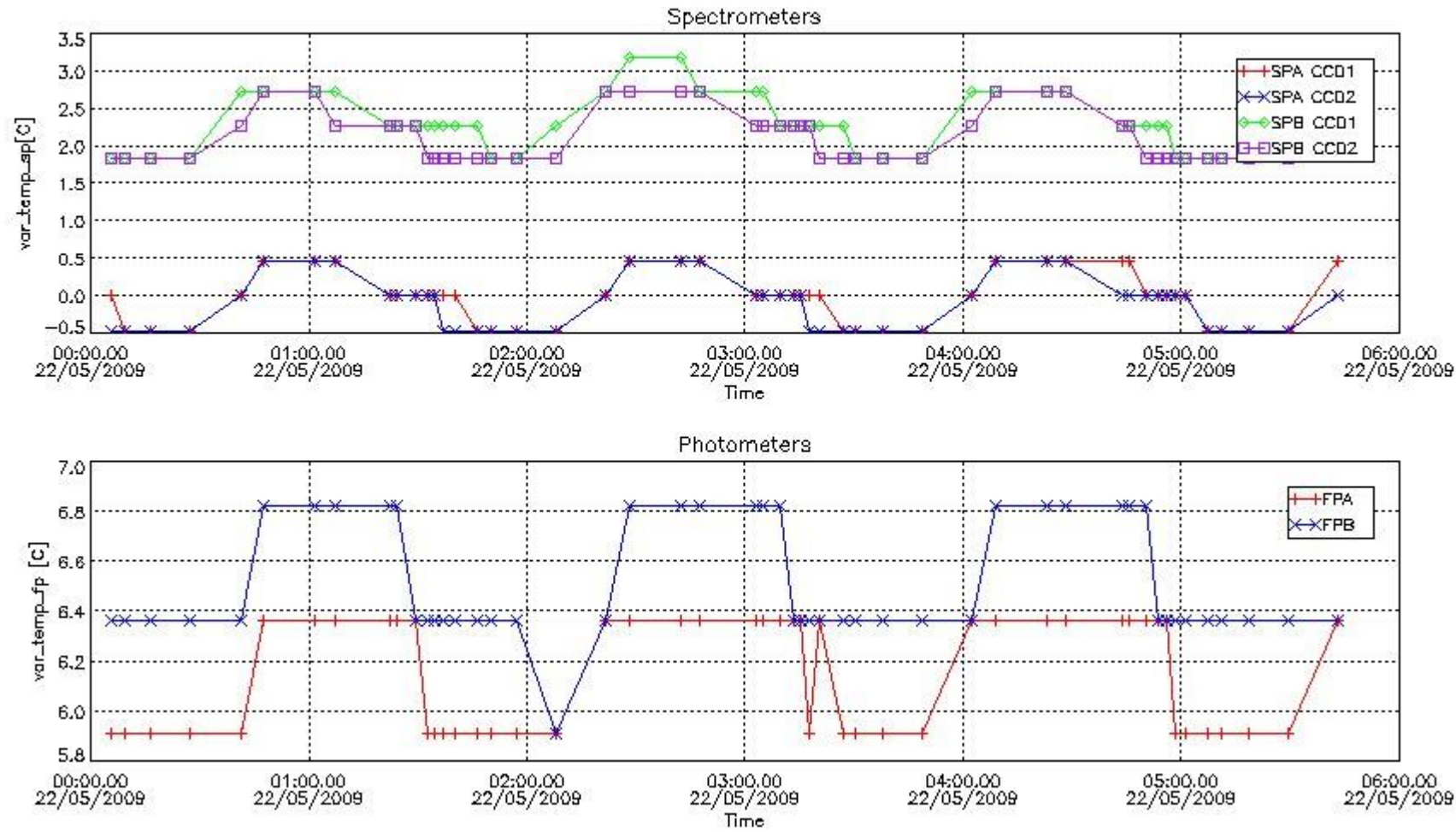
No missing products.

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_1PNPDE20090522_000541_000000362079_00145_37774_5988.N1 | 22-MAY-2009 00:05:41 | Bright | 36.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 72 | 37774 | No |
| 2 | GOM_TRA_1PNPDE20090522_000923_000000462079_00145_37774_5989.N1 | 22-MAY-2009 00:09:23 | Bright | 46.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 92 | 37774 | No |
| 3 | GOM_TRA_1PNPDE20090522_001636_000000352079_00145_37774_5990.N1 | 22-MAY-2009 00:16:36 | Bright | 35.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 70 | 37774 | No |
| 4 | GOM_TRA_1PNPDE20090522_002729_000000362079_00145_37774_5991.N1 | 22-MAY-2009 00:27:29 | Bright | 35.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 71 | 37774 | No |
| 5 | GOM_TRA_1PNPDE20090522_004111_000000302079_00145_37774_5992.N1 | 22-MAY-2009 00:41:11 | Twilight_and_stray | 29.500 | 58 | 21Alp And | 2.0730 | 11000. | 59 | 37774 | No |
| 6 | GOM_TRA_1PNPDE20090522_004737_000000432079_00145_37774_5993.N1 | 22-MAY-2009 00:47:37 | Dark | 42.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 85 | 37774 | No |
| 7 | GOM_TRA_1PNPDE20090522_010139_000000402079_00145_37774_6111.N1 | 22-MAY-2009 01:01:39 | Dark | 39.500 | 18 | 24Alp PsA | 1.1660 | 9700.0 | 79 | 37774 | No |
| 8 | GOM_TRA_1PNPDE20090522_010706_000000452079_00146_37775_6112.N1 | 22-MAY-2009 01:07:06 | Dark | 44.500 | 172 | Gam Gru | 3.0030 | 13100. | 89 | 37775 | No |
| 9 | GOM_TRA_1PNPDE20090522_012223_000000382079_00146_37775_6113.N1 | 22-MAY-2009 01:22:23 | Straylight | 38.000 | 40 | The Sco | 1.8590 | 7100.0 | 76 | 37775 | No |
| 10 | GOM_TRA_1PNPDE20090522_012414_000000402079_00146_37775_6114.N1 | 22-MAY-2009 01:24:14 | Straylight | 39.500 | 25 | 35Lam Sco | 1.6200 | 28000. | 79 | 37775 | No |
| 11 | GOM_TRA_1PNPDE20090522_012913_000000372079_00146_37775_6115.N1 | 22-MAY-2009 01:29:13 | Twilight_and_stray | 37.000 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 74 | 37775 | No |
| 12 | GOM_TRA_1PNPDE20090522_013236_000000462079_00146_37775_6116.N1 | 22-MAY-2009 01:32:36 | Bright | 45.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 91 | 37775 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|--------|--------|----|-------|----|
| 13 | GOM_TRA_1PNPDE20090522_013439_000000412079_00146_37775_6117.N1 | 22-MAY-2009 01:34:39 | Bright | 41.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 82 | 37775 | No |
| 14 | GOM_TRA_1PNPDE20090522_013700_000000392079_00146_37775_6118.N1 | 22-MAY-2009 01:37:00 | Bright | 39.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 78 | 37775 | No |
| 15 | GOM_TRA_1PNPDE20090522_014006_000000372079_00146_37775_6119.N1 | 22-MAY-2009 01:40:06 | Bright | 36.500 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 73 | 37775 | No |
| 16 | GOM_TRA_1PNPDE20090522_014616_000000372079_00146_37775_6120.N1 | 22-MAY-2009 01:46:16 | Bright | 36.500 | 67 | 5Alp CrB | 2.2210 | 11000. | 73 | 37775 | No |
| 17 | GOM_TRA_1PNPDE20090522_014958_000000462079_00146_37775_6121.N1 | 22-MAY-2009 01:49:58 | Bright | 45.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 91 | 37775 | No |
| 18 | GOM_TRA_1PNPDE20090522_015712_000000362079_00146_37775_6122.N1 | 22-MAY-2009 01:57:12 | Bright | 36.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 72 | 37775 | No |
| 19 | GOM_TRA_1PNPDE20090522_020805_000000362079_00146_37775_6123.N1 | 22-MAY-2009 02:08:05 | Bright | 35.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 71 | 37775 | No |
| 20 | GOM_TRA_1PNPDE20090522_022147_000000302079_00146_37775_6324.N1 | 22-MAY-2009 02:21:47 | Twilight | 30.000 | 58 | 21Alp And | 2.0730 | 11000. | 60 | 37775 | No |
| 21 | GOM_TRA_1PNPDE20090522_022814_000000432079_00146_37775_6325.N1 | 22-MAY-2009 02:28:14 | Dark | 42.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 85 | 37775 | No |
| 22 | GOM_TRA_1PNPDE20090522_024215_000000412079_00146_37775_6326.N1 | 22-MAY-2009 02:42:15 | Dark | 40.500 | 18 | 24Alp PsA | 1.1660 | 9700.0 | 81 | 37775 | No |
| 23 | GOM_TRA_1PNPDE20090522_024743_000000452079_00147_37776_6327.N1 | 22-MAY-2009 02:47:43 | Dark | 45.000 | 172 | Gam Gru | 3.0030 | 13100. | 90 | 37776 | No |
| 24 | GOM_TRA_1PNPDE20090522_030259_000000382079_00147_37776_6328.N1 | 22-MAY-2009 03:02:59 | Straylight | 38.000 | 40 | The Sco | 1.8590 | 7100.0 | 76 | 37776 | No |
| 25 | GOM_TRA_1PNPDE20090522_030450_000000402079_00147_37776_6329.N1 | 22-MAY-2009 03:04:50 | Straylight | 40.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 80 | 37776 | No |
| 26 | GOM_TRA_1PNPDE20090522_030950_000000362079_00147_37776_6330.N1 | 22-MAY-2009 03:09:50 | Twilight | 36.000 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 72 | 37776 | No |
| 27 | GOM_TRA_1PNPDE20090522_031312_000000462079_00147_37776_6331.N1 | 22-MAY-2009 03:13:12 | Bright | 45.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 91 | 37776 | No |
| 28 | GOM_TRA_1PNPDE20090522_031515_000000412079_00147_37776_6332.N1 | 22-MAY-2009 03:15:15 | Bright | 41.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 82 | 37776 | No |
| 29 | GOM_TRA_1PNPDE20090522_031736_000000392079_00147_37776_6333.N1 | 22-MAY-2009 03:17:36 | Bright | 38.500 | 120 | 1Del Oph | 2.7340 | 3200.0 | 77 | 37776 | No |
| 30 | GOM_TRA_1PNPDE20090522_032042_000000372079_00147_37776_6334.N1 | 22-MAY-2009 03:20:42 | Bright | 36.500 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 73 | 37776 | No |
| 31 | GOM_TRA_1PNPDE20090522_032652_000000372079_00147_37776_6335.N1 | 22-MAY-2009 03:26:52 | Bright | 37.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 74 | 37776 | No |
| 32 | GOM_TRA_1PNPDE20090522_033034_000000472079_00147_37776_6336.N1 | 22-MAY-2009 03:30:34 | Bright | 46.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 93 | 37776 | No |
| 33 | GOM_TRA_1PNPDE20090522_033747_000000372079_00147_37776_6337.N1 | 22-MAY-2009 03:37:47 | Bright | 36.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 73 | 37776 | No |
| 34 | GOM_TRA_1PNPDE20090522_034840_000000372079_00147_37776_6497.N1 | 22-MAY-2009 03:48:40 | Bright | 36.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 73 | 37776 | No |
| 35 | GOM_TRA_1PNPDE20090522_040223_000000302079_00147_37776_6498.N1 | 22-MAY-2009 04:02:23 | Twilight | 30.000 | 58 | 21Alp And | 2.0730 | 11000. | 60 | 37776 | No |
| 36 | GOM_TRA_1PNPDE20090522_040851_000000372079_00147_37776_6499.N1 | 22-MAY-2009 04:08:51 | Dark | 37.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 74 | 37776 | No |
| 37 | GOM_TRA_1PNPDE20090522_042253_000000402079_00147_37776_6500.N1 | 22-MAY-2009 04:22:53 | Dark | 40.000 | 18 | 24Alp PsA | 1.1660 | 9700.0 | 80 | 37776 | No |
| 38 | GOM_TRA_1PNPDE20090522_042821_000000442079_00148_37777_6501.N1 | 22-MAY-2009 04:28:21 | Dark | 43.500 | 172 | Gam Gru | 3.0030 | 13100. | 87 | 37777 | No |
| 39 | GOM_TRA_1PNPDE20090522_044336_000000372079_00148_37777_6502.N1 | 22-MAY-2009 04:43:36 | Straylight | 37.000 | 40 | The Sco | 1.8590 | 7100.0 | 74 | 37777 | No |
| 40 | GOM_TRA_1PNPDE20090522_044527_000000402079_00148_37777_6503.N1 | 22-MAY-2009 04:45:27 | Straylight | 39.500 | 25 | 35Lam Sco | 1.6200 | 28000. | 79 | 37777 | No |
| 41 | GOM_TRA_1PNPDE20090522_045026_000000372079_00148_37777_6504.N1 | 22-MAY-2009 04:50:26 | Twilight | 36.500 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 73 | 37777 | No |
| 42 | GOM_TRA_1PNPDE20090522_045348_000000462079_00148_37777_6505.N1 | 22-MAY-2009 04:53:48 | Bright | 45.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 91 | 37777 | No |
| 43 | GOM_TRA_1PNPDE20090522_045551_000000402079_00148_37777_6506.N1 | 22-MAY-2009 04:55:51 | Bright | 39.500 | 98 | 13Zet Oph | 2.5710 | 30000. | 79 | 37777 | No |
| 44 | GOM_TRA_1PNPDE20090522_045812_000000382079_00148_37777_6507.N1 | 22-MAY-2009 04:58:12 | Bright | 38.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 76 | 37777 | No |
| 45 | GOM_TRA_1PNPDE20090522_050118_000000362079_00148_37777_6508.N1 | 22-MAY-2009 05:01:18 | Bright | 35.500 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 71 | 37777 | No |
| 46 | GOM_TRA_1PNPDE20090522_050728_000000372079_00148_37777_6509.N1 | 22-MAY-2009 05:07:28 | Bright | 37.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 74 | 37777 | No |
| 47 | GOM_TRA_1PNPDE20090522_051108_000000462079_00148_37777_6510.N1 | 22-MAY-2009 05:11:08 | Bright | 46.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 92 | 37777 | No |
| 48 | GOM_TRA_1PNPDE20090522_051823_000000352079_00148_37777_6511.N1 | 22-MAY-2009 05:18:23 | Bright | 34.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 69 | 37777 | No |
| 49 | GOM_TRA_1PNPDE20090522_052916_000000362079_00148_37777_6687.N1 | 22-MAY-2009 05:29:16 | Bright | 36.000 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 72 | 37777 | No |
| 50 | GOM_TRA_1PNPDE20090522_054259_000000302079_00148_37777_6688.N1 | 22-MAY-2009 05:42:59 | Twilight | 30.000 | 58 | 21Alp And | 2.0730 | 11000. | 60 | 37777 | No |

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



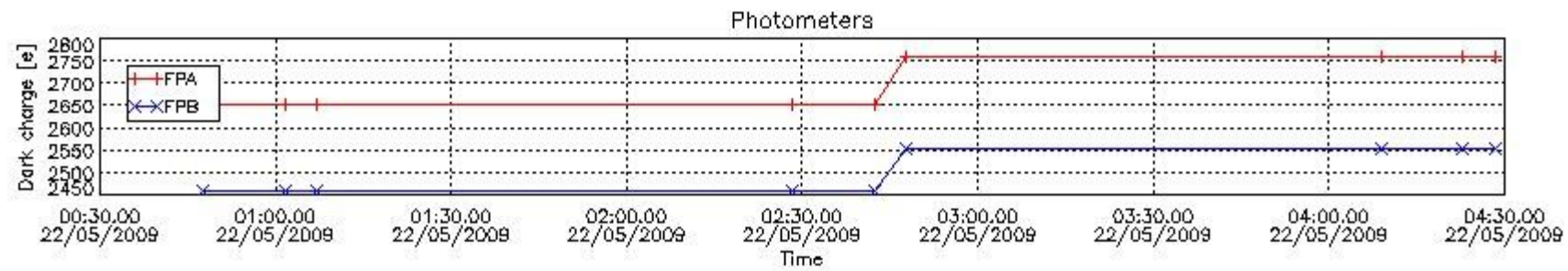
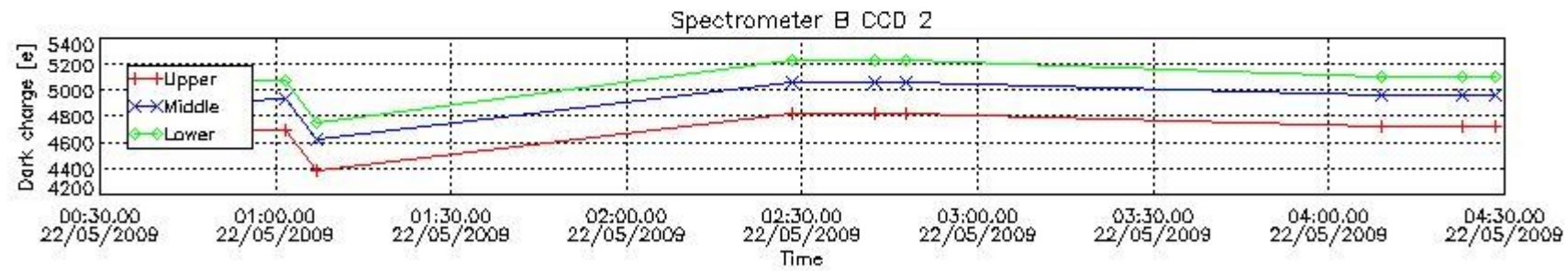
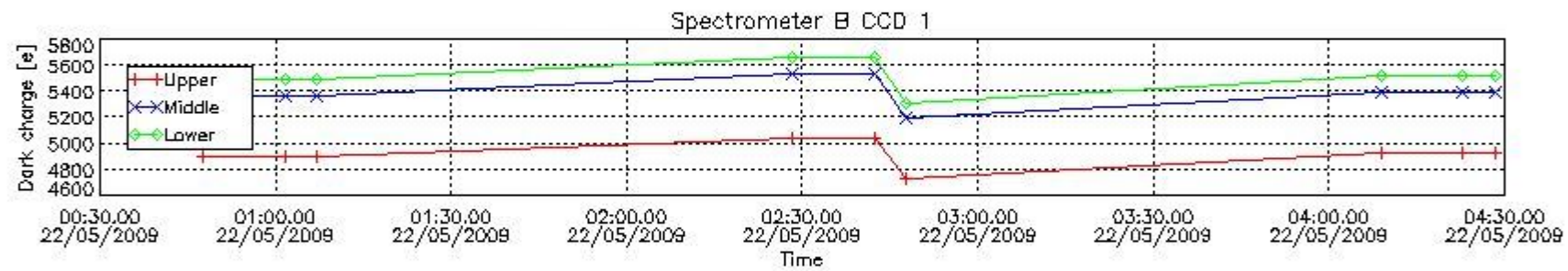
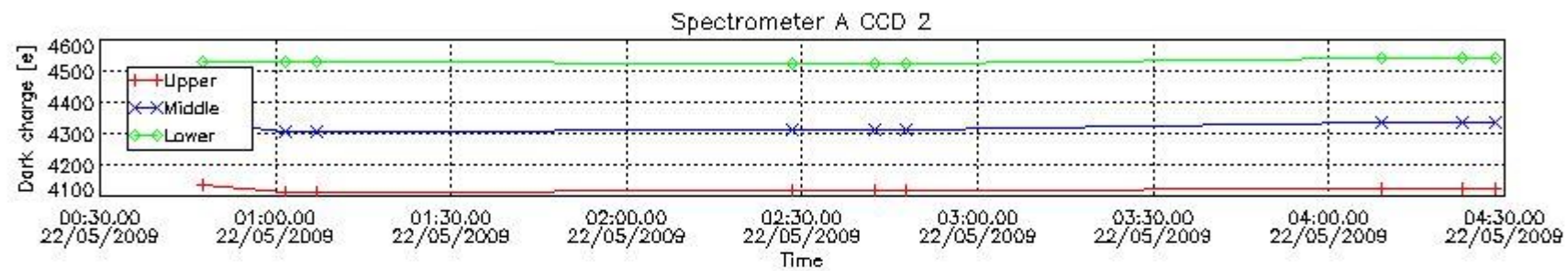
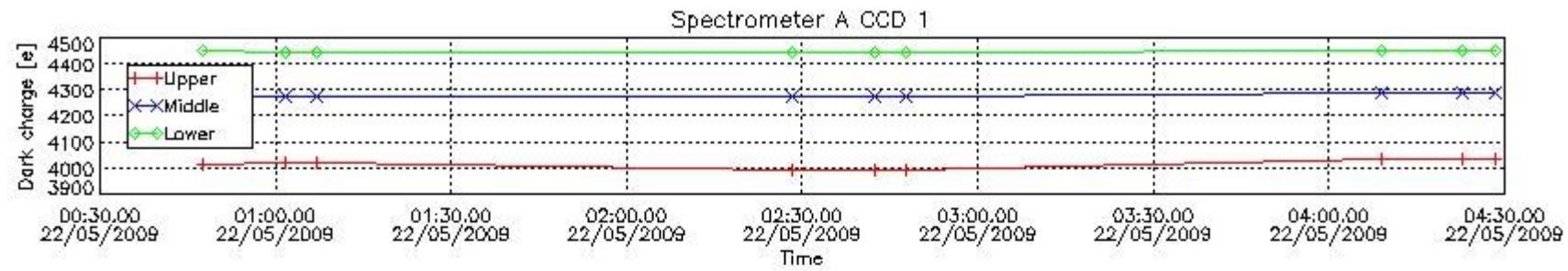
4. Overview of dark signal processing per product

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



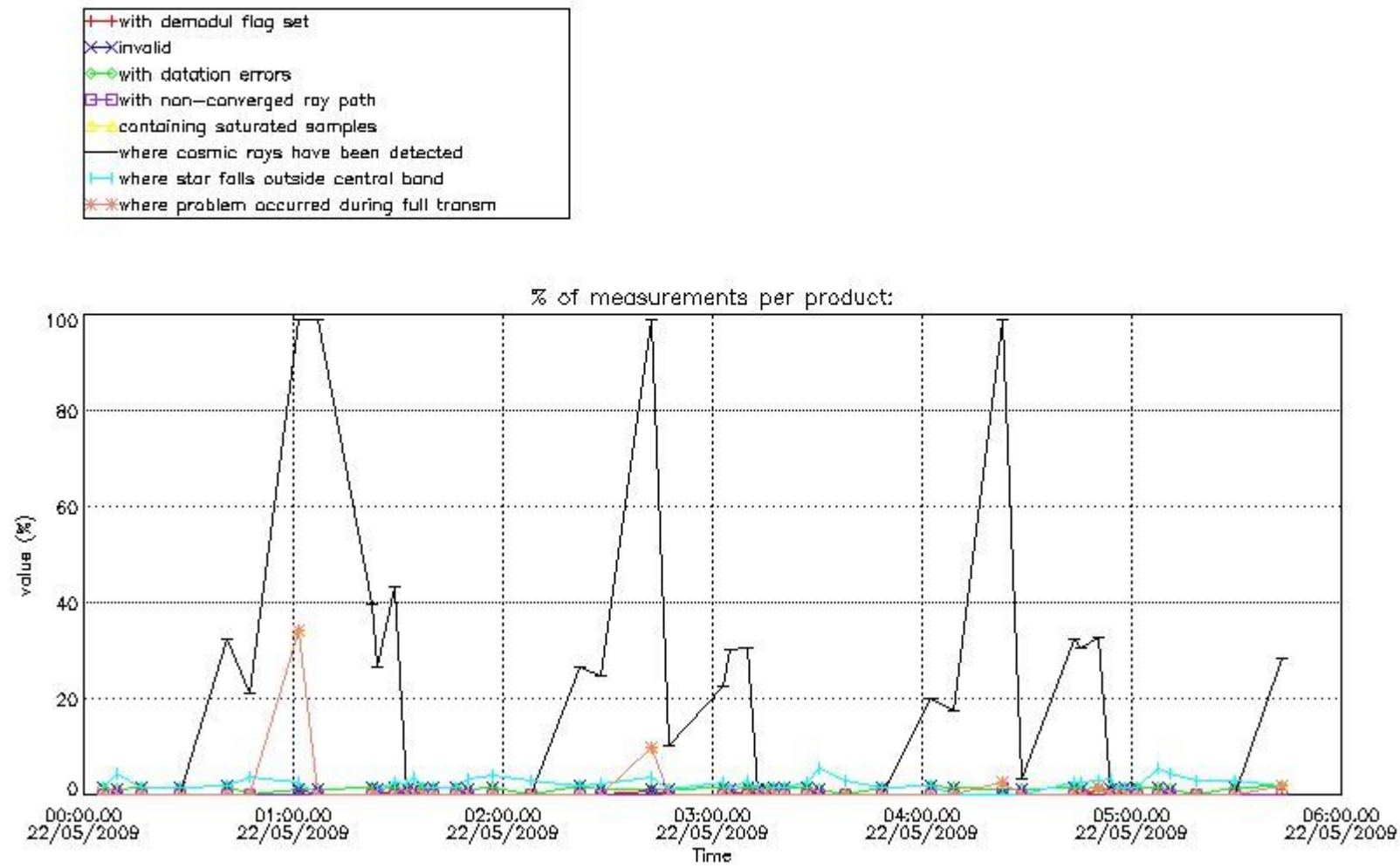
5. Demodulation flag and quality information monitoring

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.

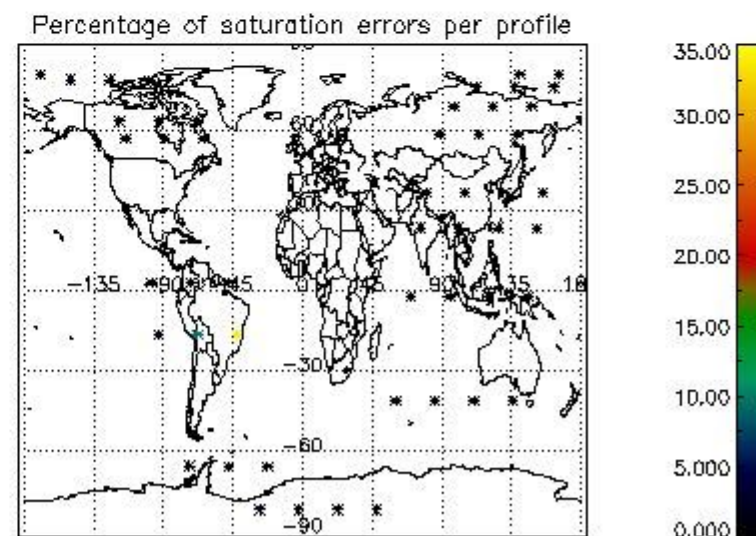
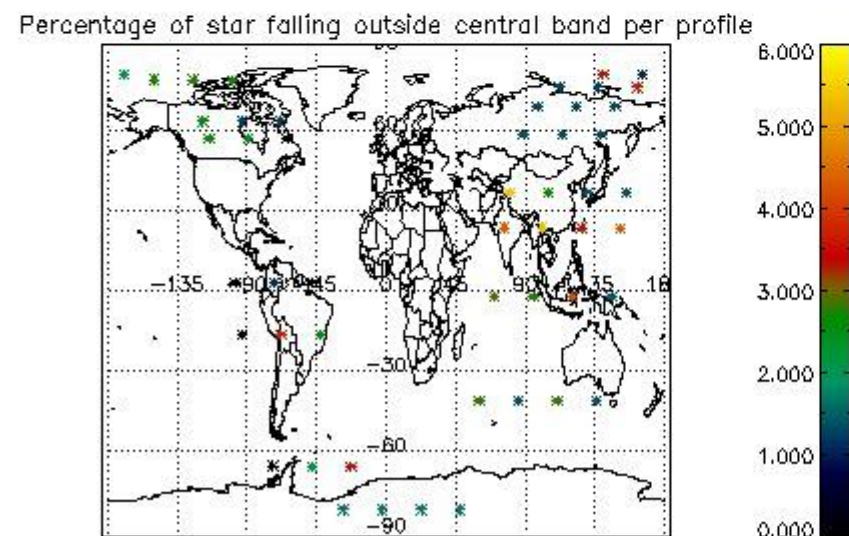
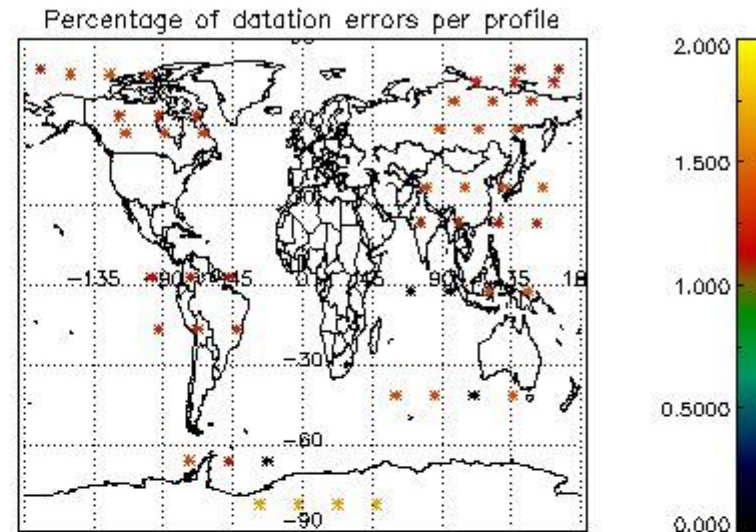
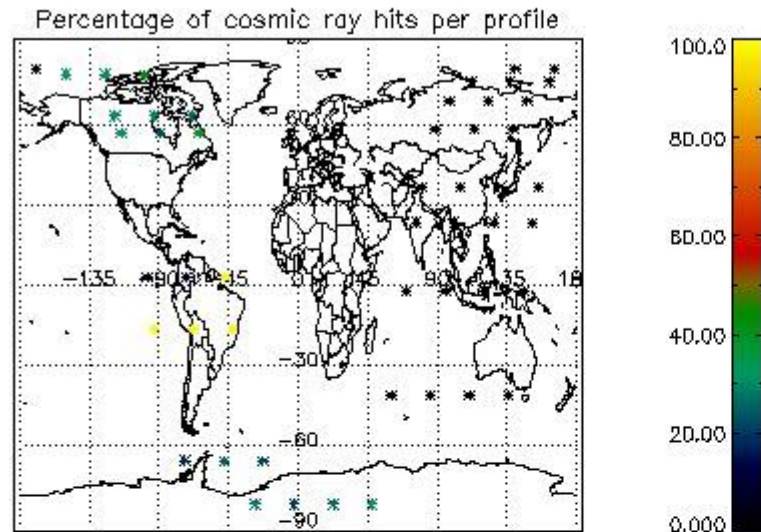
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 30.0000 % |
| 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)



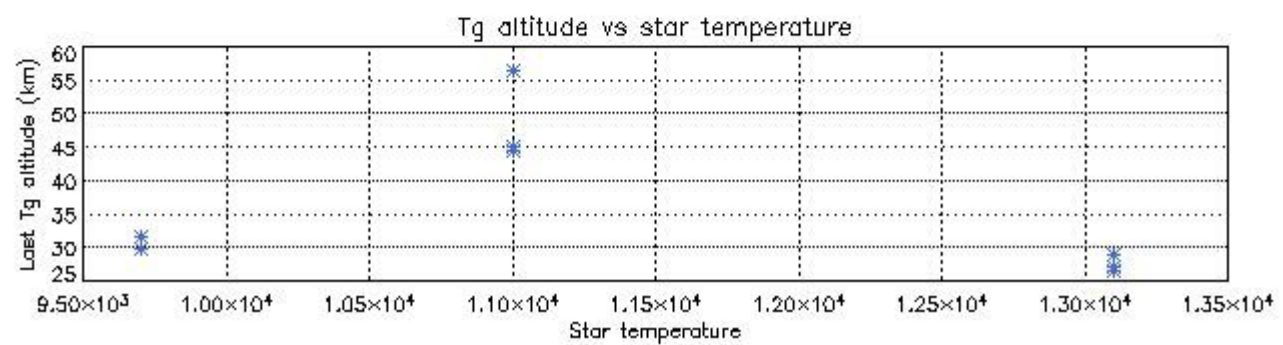
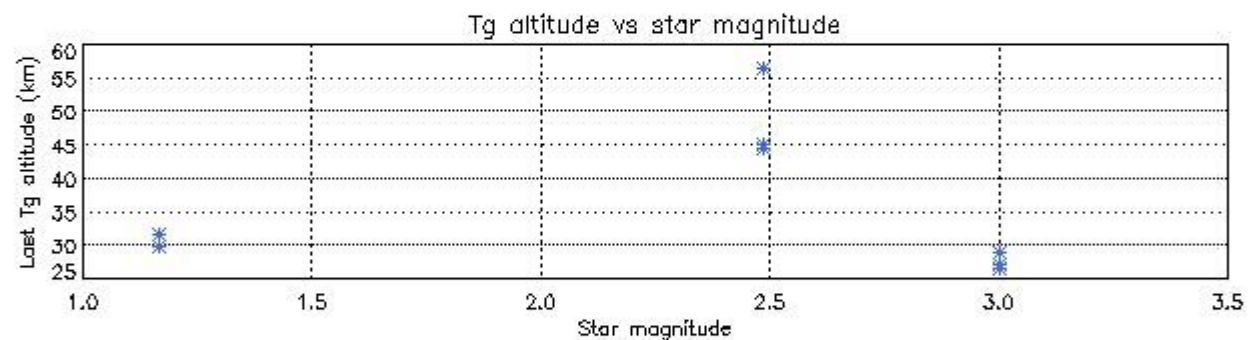
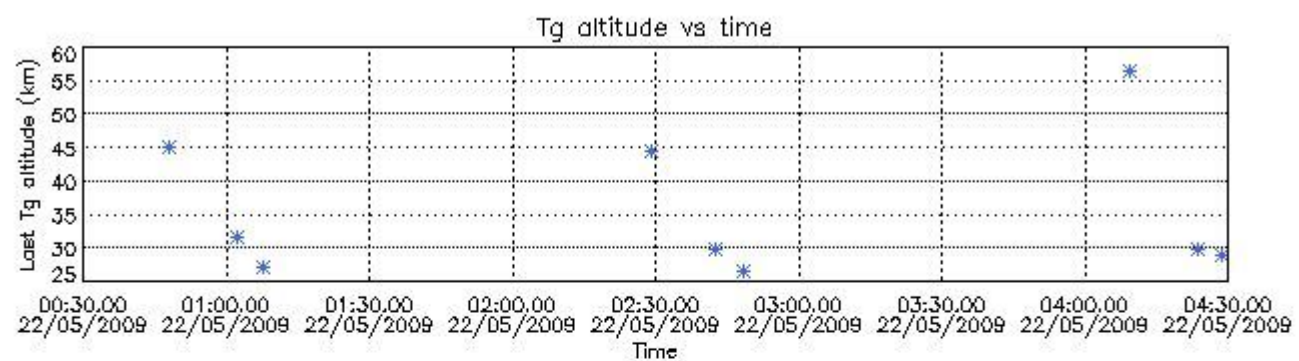
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 35.543 | 31.978 | NaN |
| St. deviation: | 10.529 | 4.7575 | NaN |
| Maximum: | 56.463 | 43.219 | NaN |
| Minimum: | 26.456 | 25.702 | NaN |
| Number of data: | 9.0000 | 28.000 | NaN |

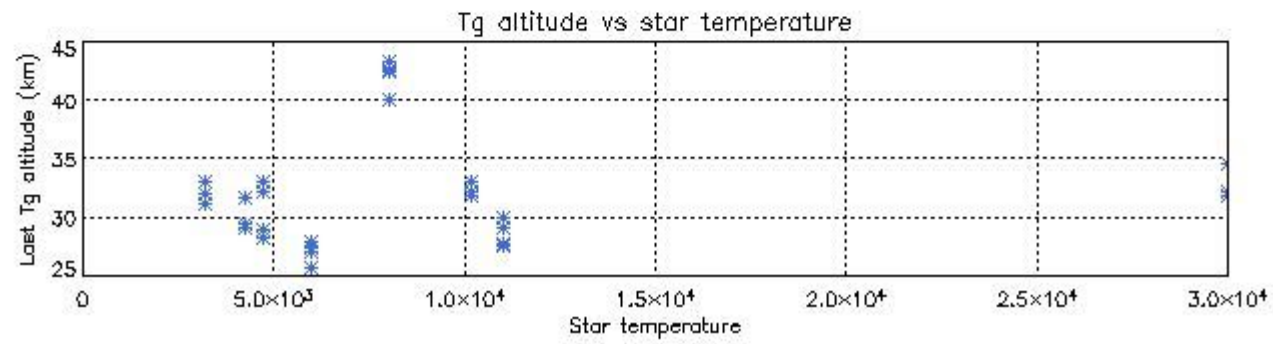
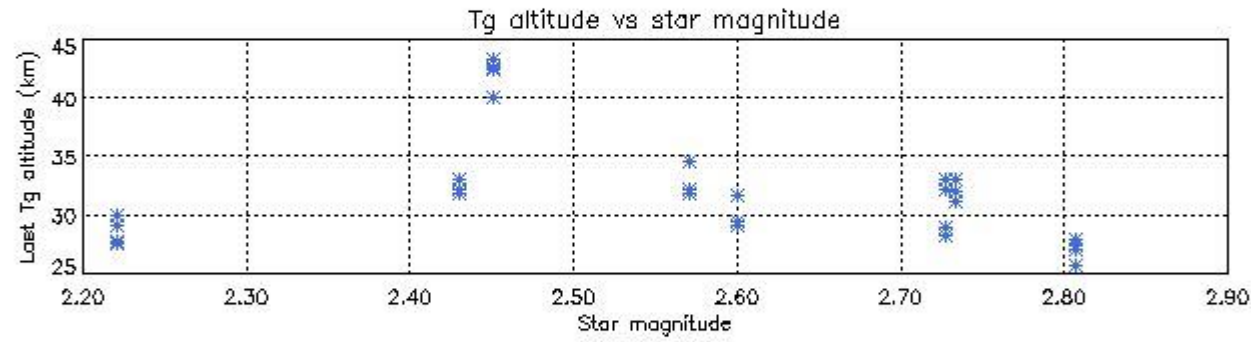
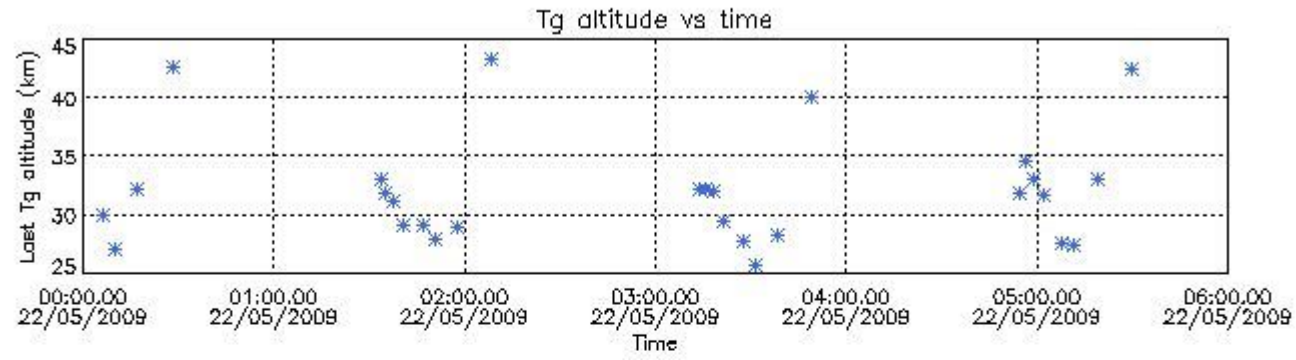
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

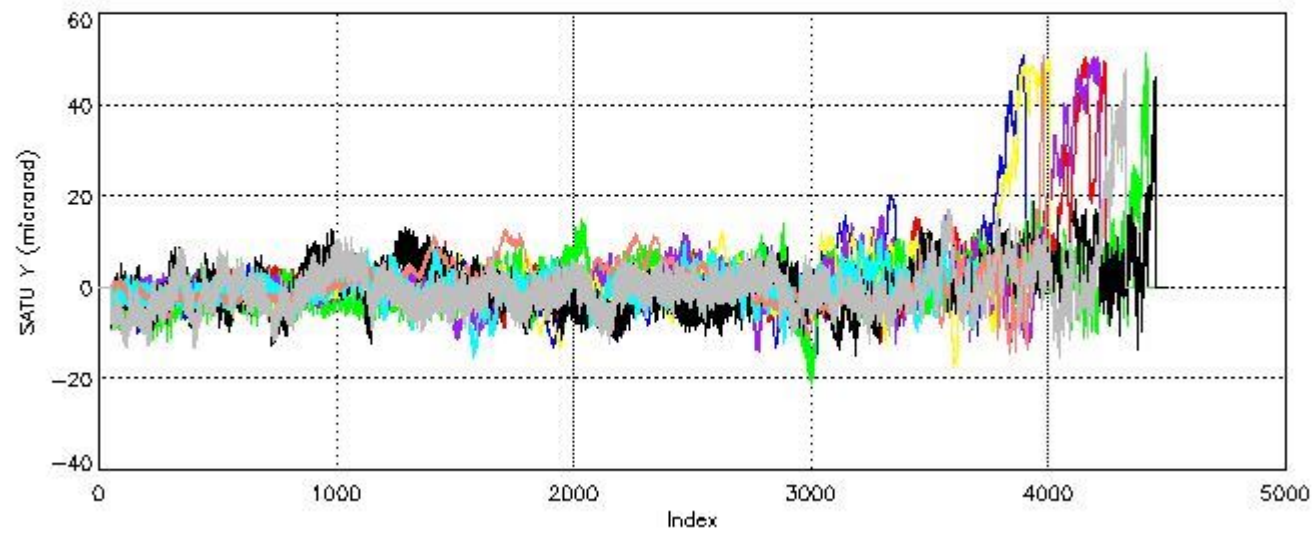
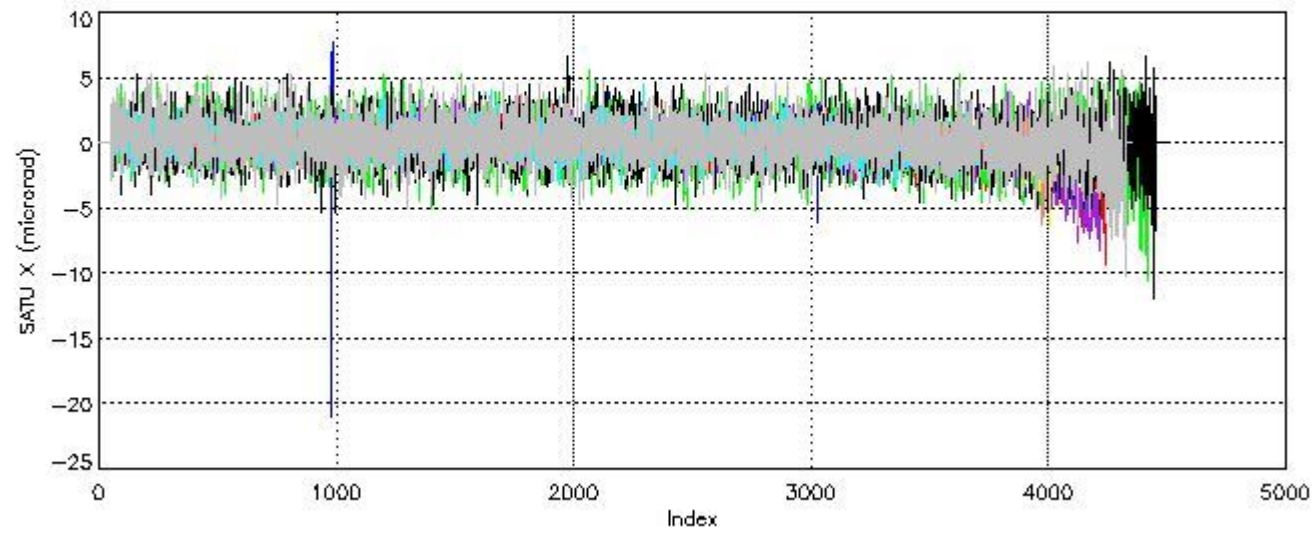


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean: | 0.30865 | -1.2593 | 0.36982 | -1.5260 |
| St. deviation: | 1.0231 | 2.8920 | 0.88686 | 2.6516 |
| Maximum: | 7.7000 | 12.700 | 5.0000 | 10.100 |
| Minimum: | -21.000 | -13.300 | -4.1000 | -12.600 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 10850. | 10850. | 29000. | 29000. |
|-----------------|--------|--------|--------|--------|

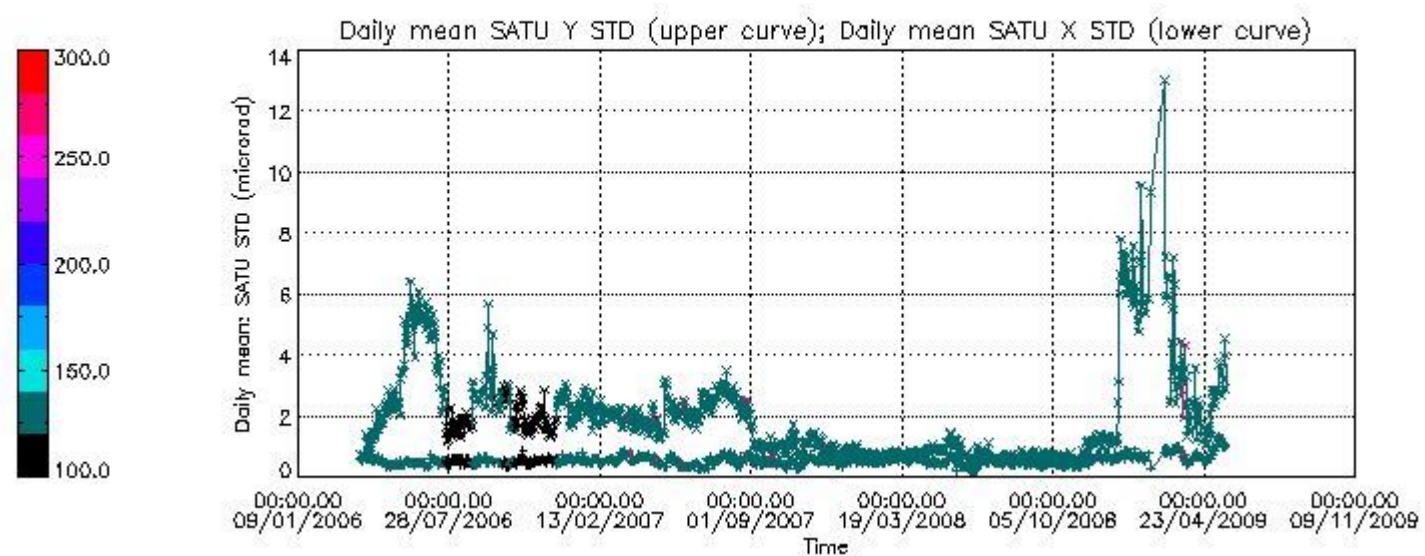
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

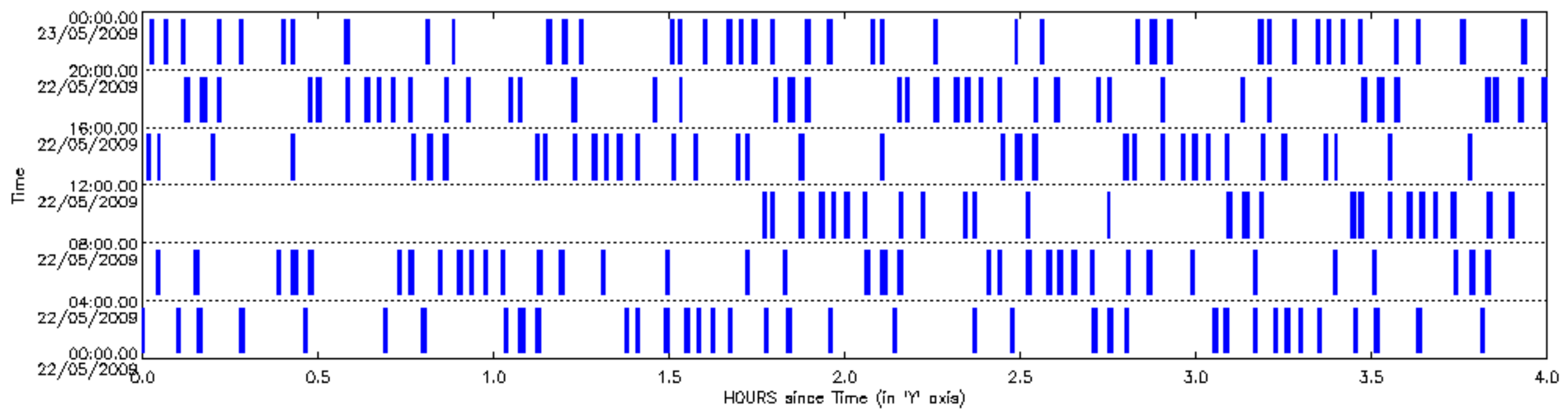
Lower curve: STD of SATU X axis

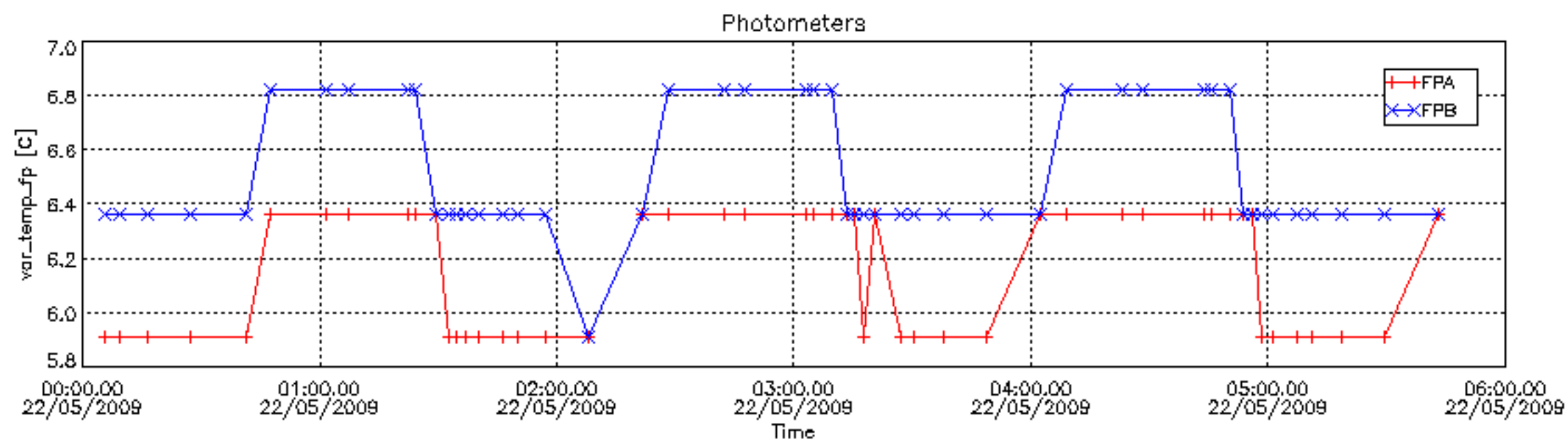
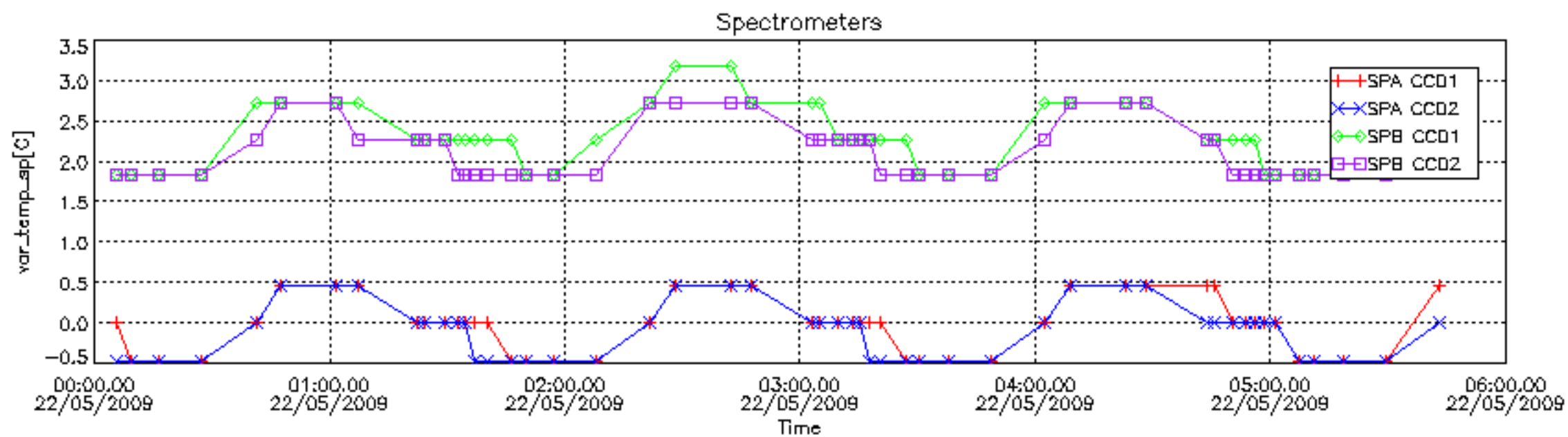


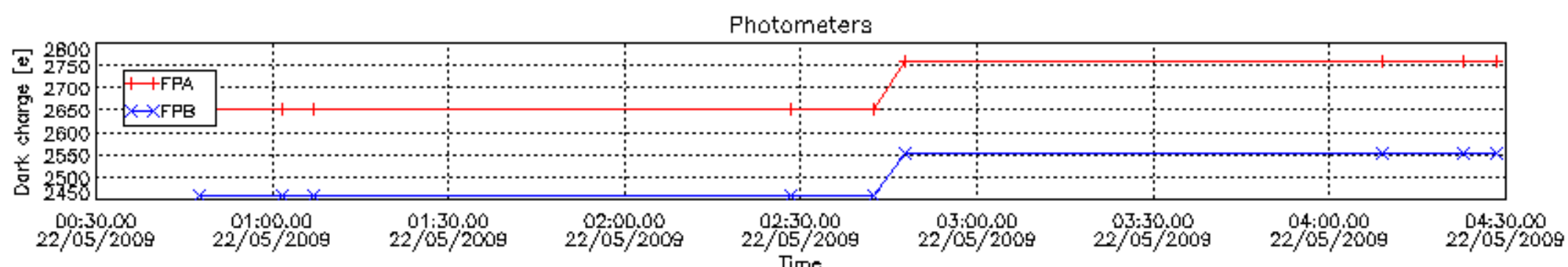
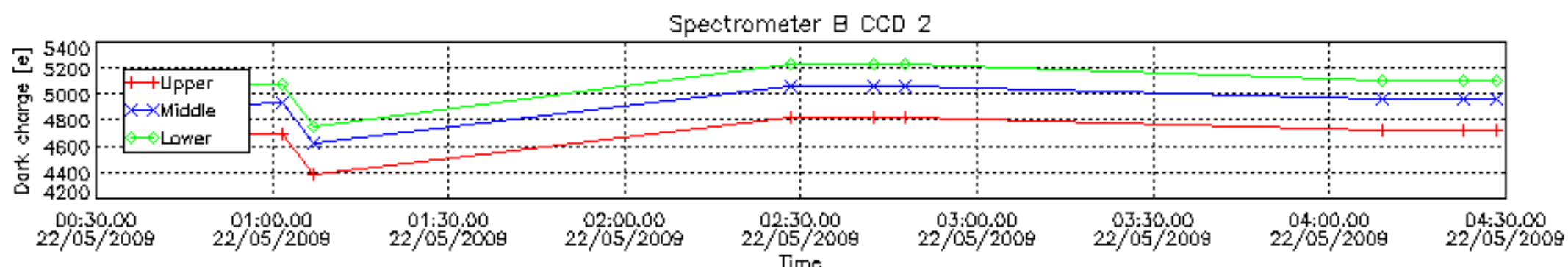
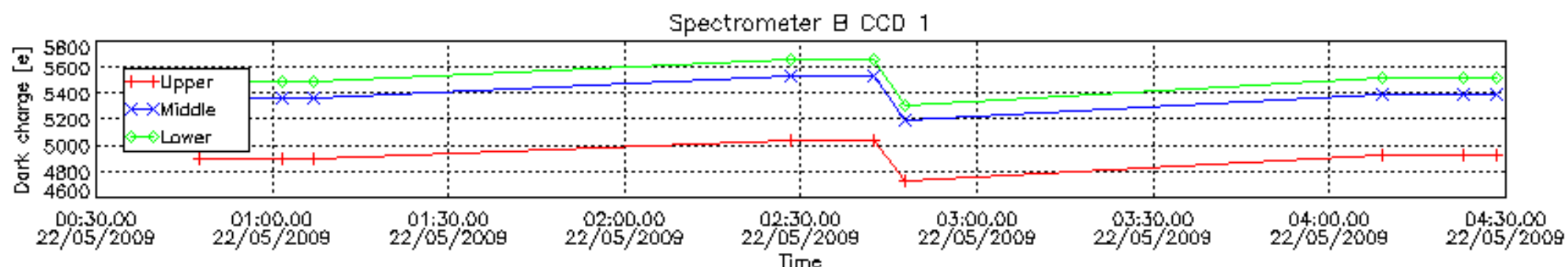
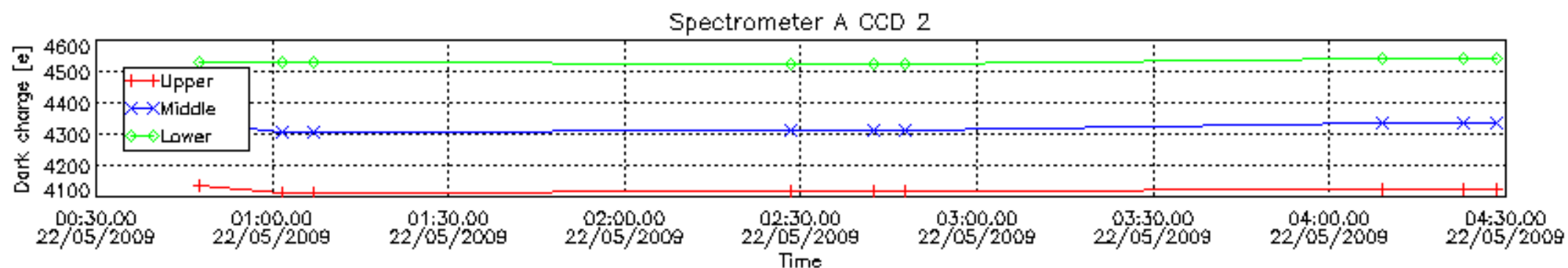
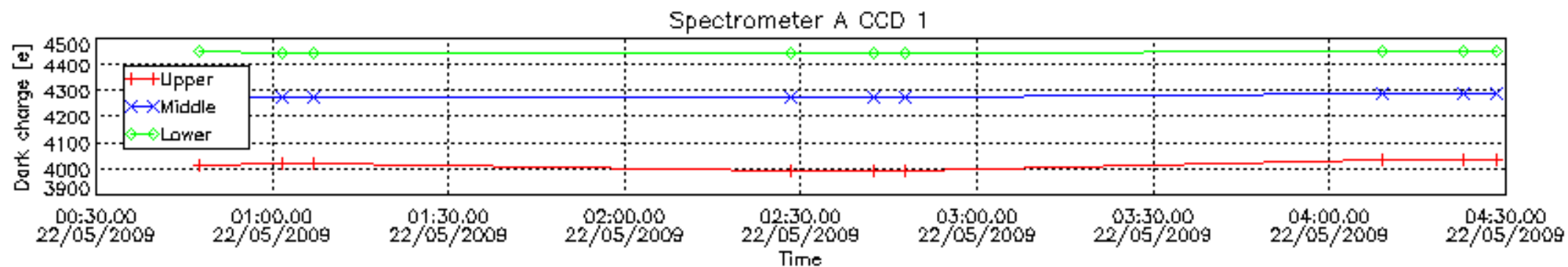
8. Auxiliary Data Files used for the production reported in section 2.4

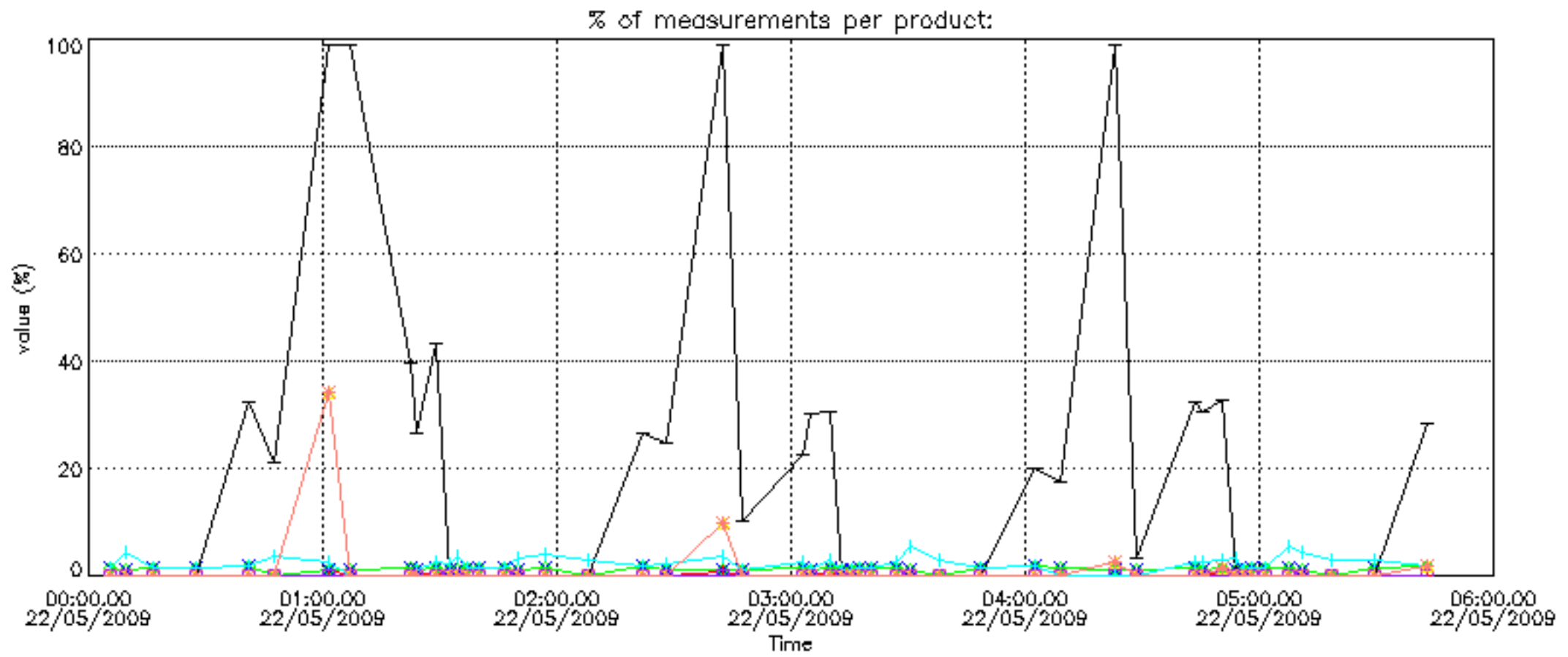
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 22-MAY-2009 00:05:41 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20090519_115952_20090517_000000_20100101_000000 | 1 | 22-MAY-2009 00:05:41 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 22-MAY-2009 00:05:41 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 22-MAY-2009 00:05:41 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 22-MAY-2009 00:05:41 |
| ECMWF_FILE | AUX_ECF_AXNECM20090521_064112_20090521_210000_20090522_090000 | 1 | 22-MAY-2009 00:05:41 |
| ECMWF_FILE | AUX_ECF_AXNECM20090521_184111_20090522_030000_20090522_150000 | 34 | 22-MAY-2009 03:48:40 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 22-MAY-2009 00:05:41 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090521_213121_000057382079_00143_37772_7991.N1 | 1 | 22-MAY-2009 00:05:41 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090521_231218_000057382079_00144_37773_7992.N1 | 7 | 22-MAY-2009 01:01:39 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090522_005315_000044632079_00145_37774_7993.N1 | 20 | 22-MAY-2009 02:21:47 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090522_021257_000051012079_00146_37775_7994.N1 | 34 | 22-MAY-2009 03:48:40 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090522_034316_000057382079_00147_37776_7995.N1 | 49 | 22-MAY-2009 05:29:16 |

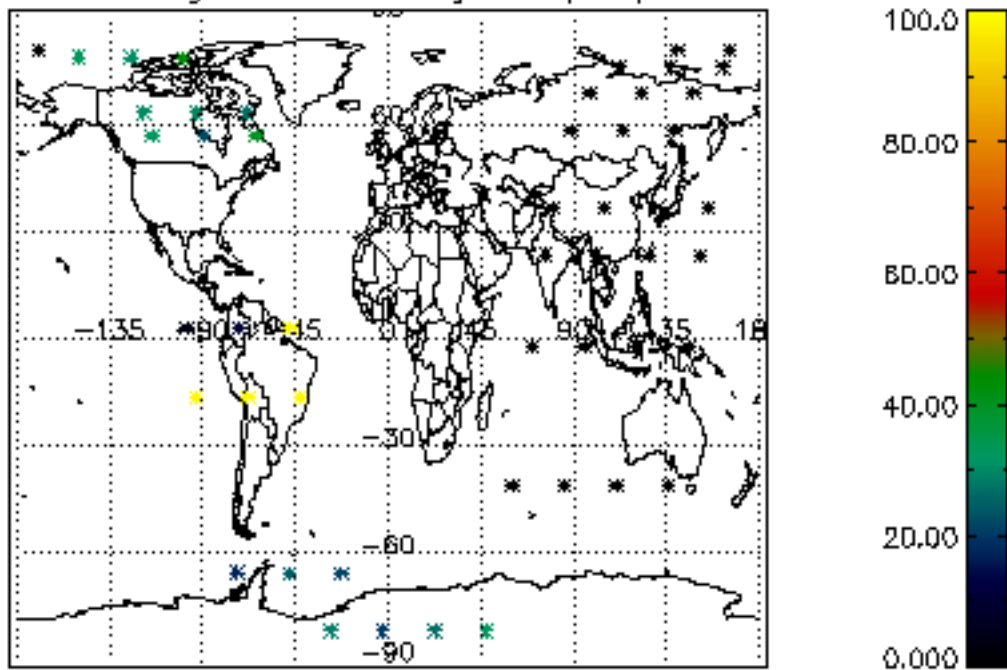




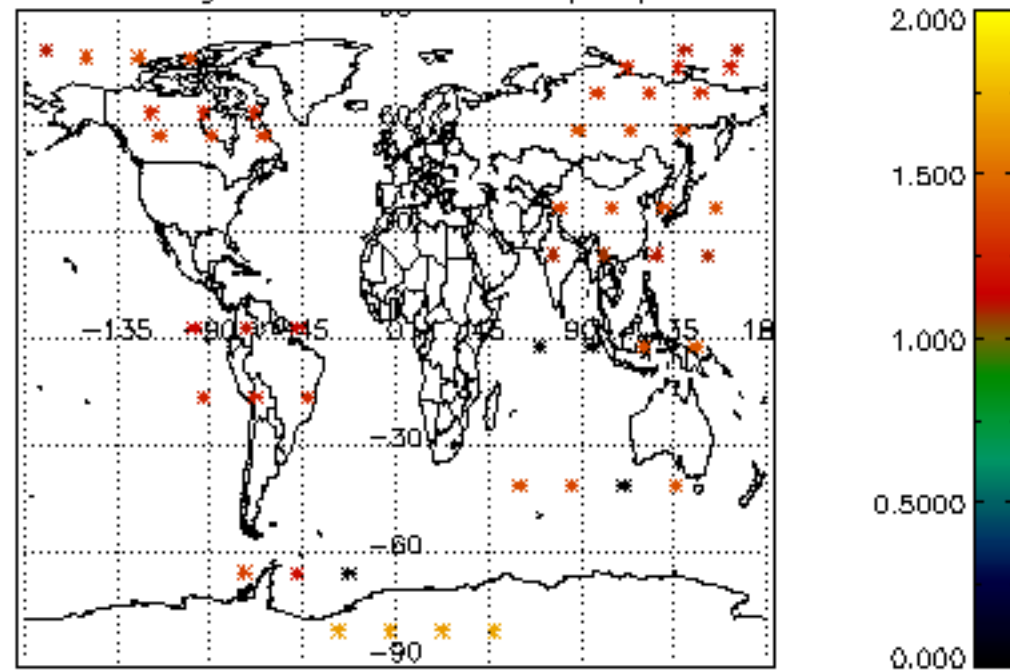




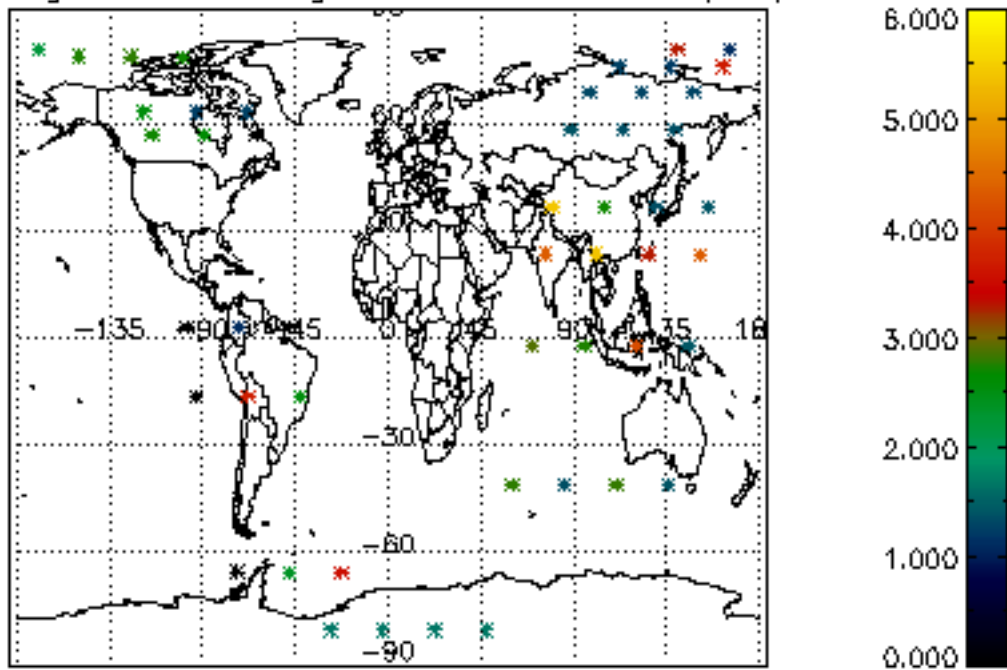
Percentage of cosmic ray hits per profile



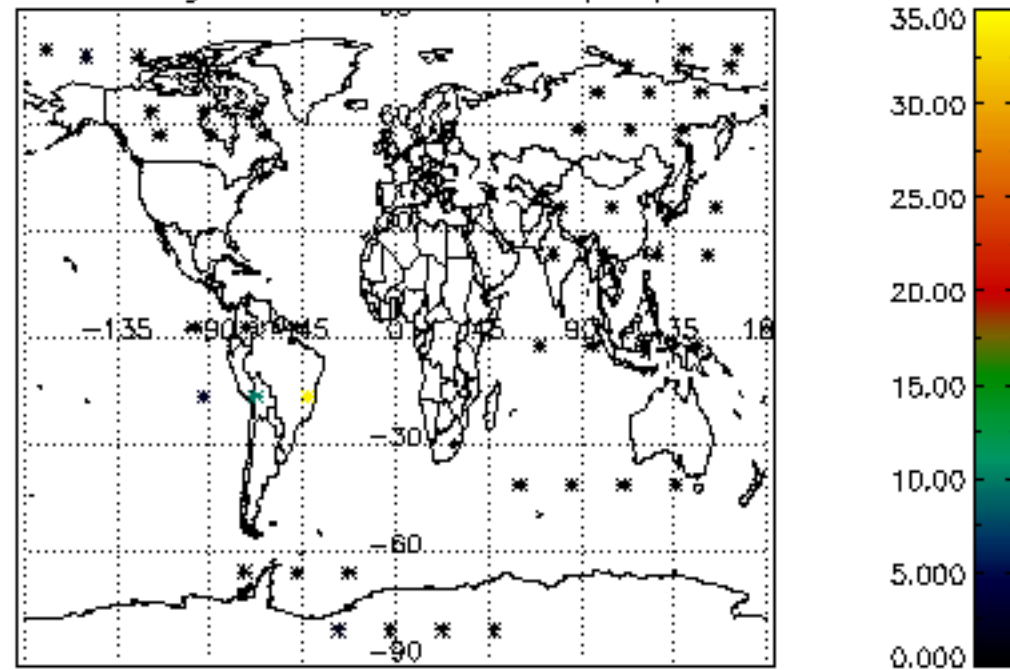
Percentage of datation errors per profile



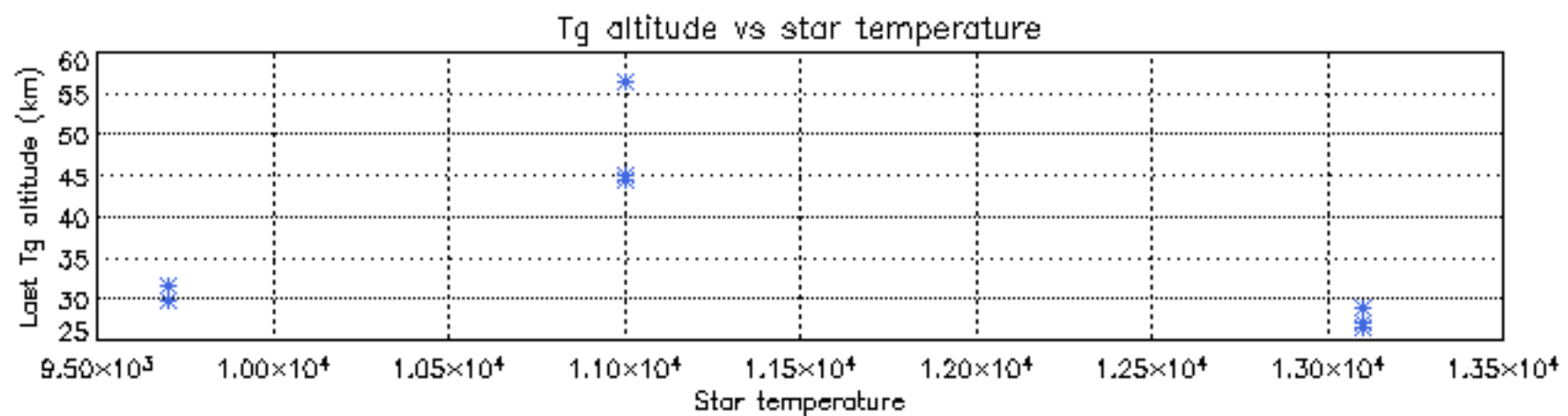
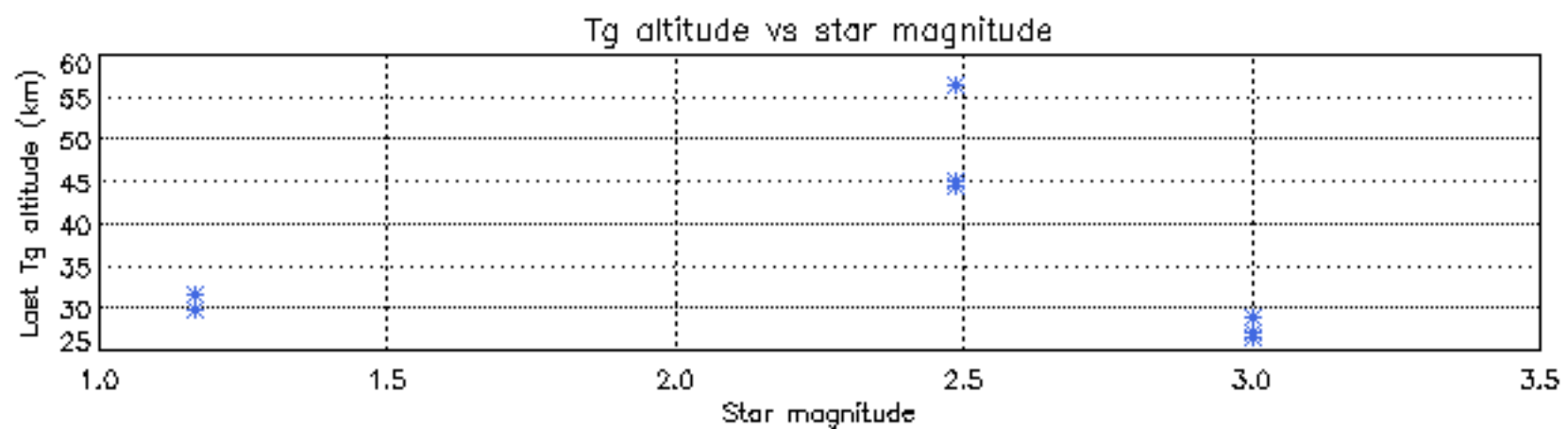
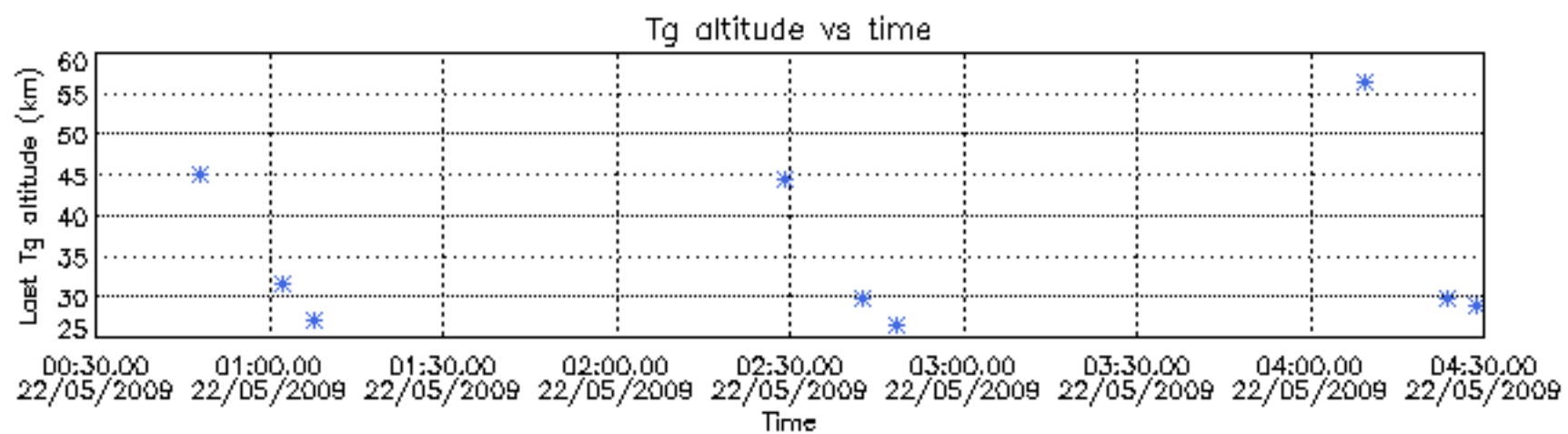
Percentage of star falling outside central band per profile



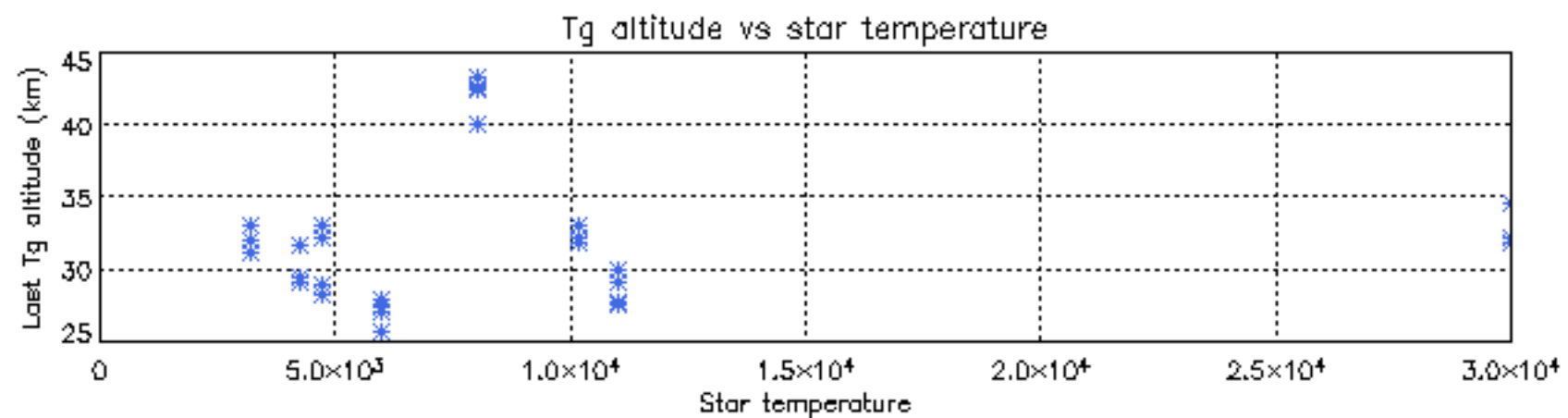
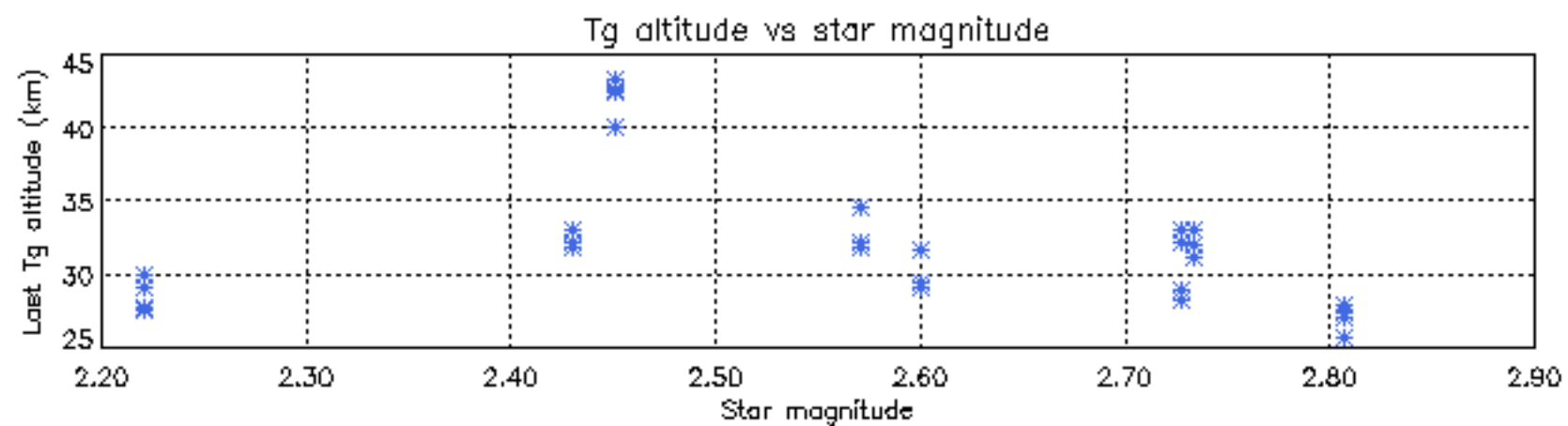
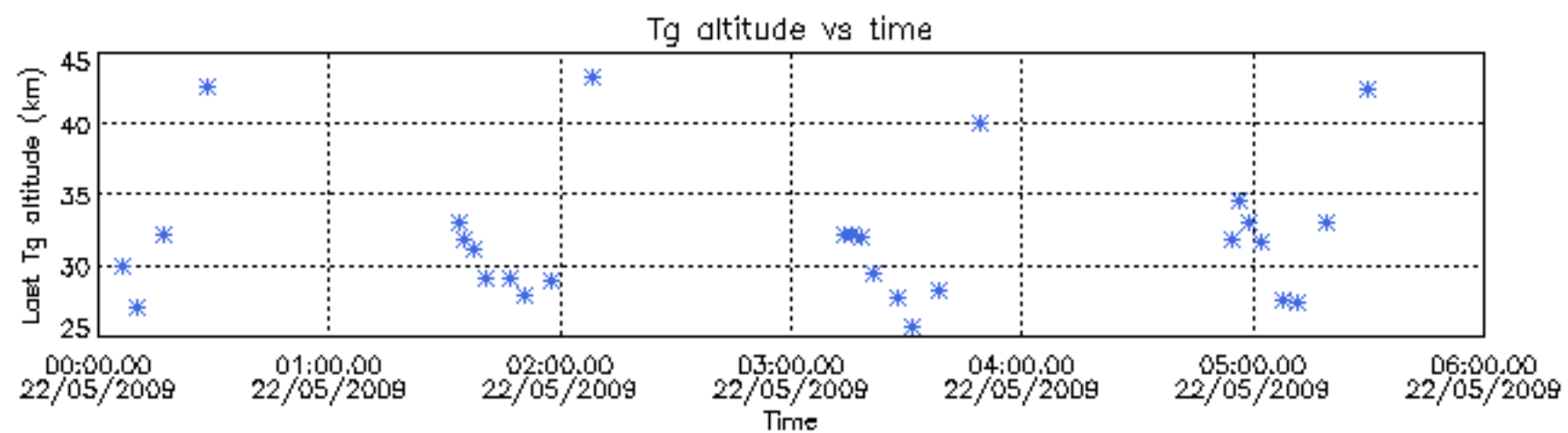
Percentage of saturation errors per profile

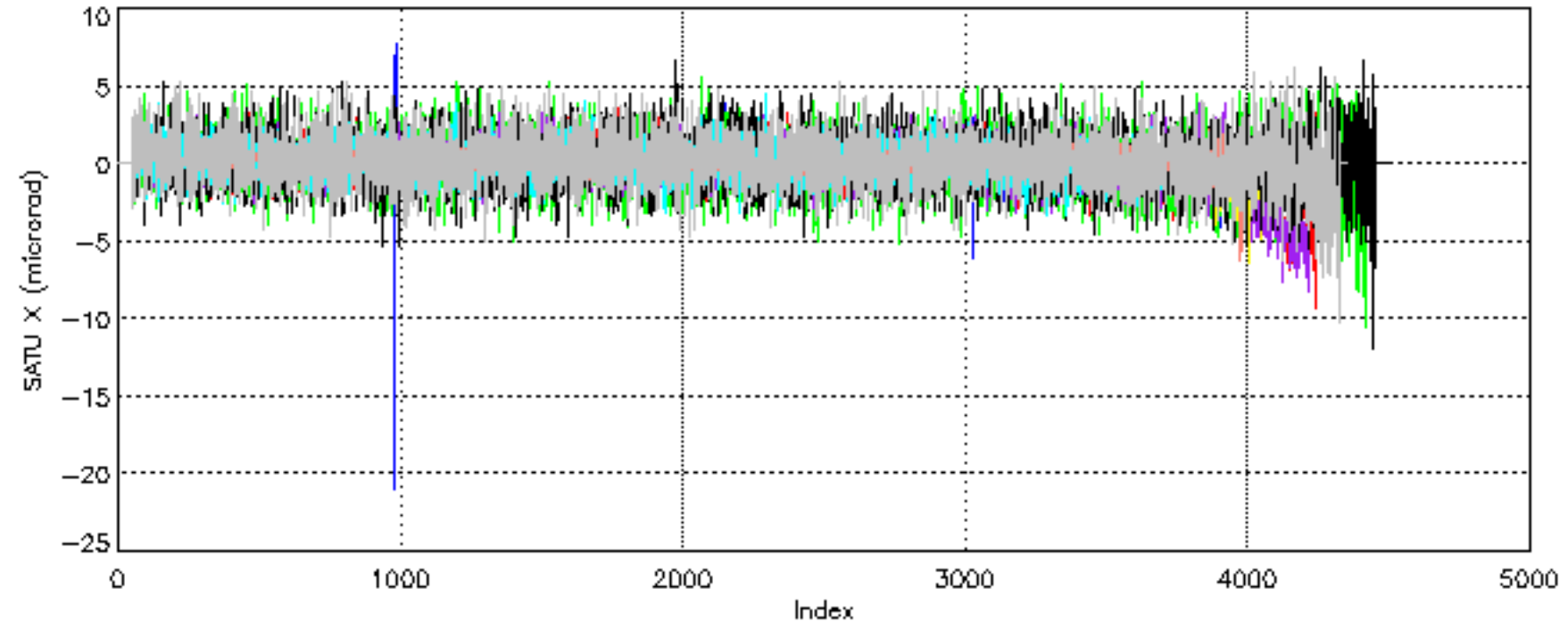


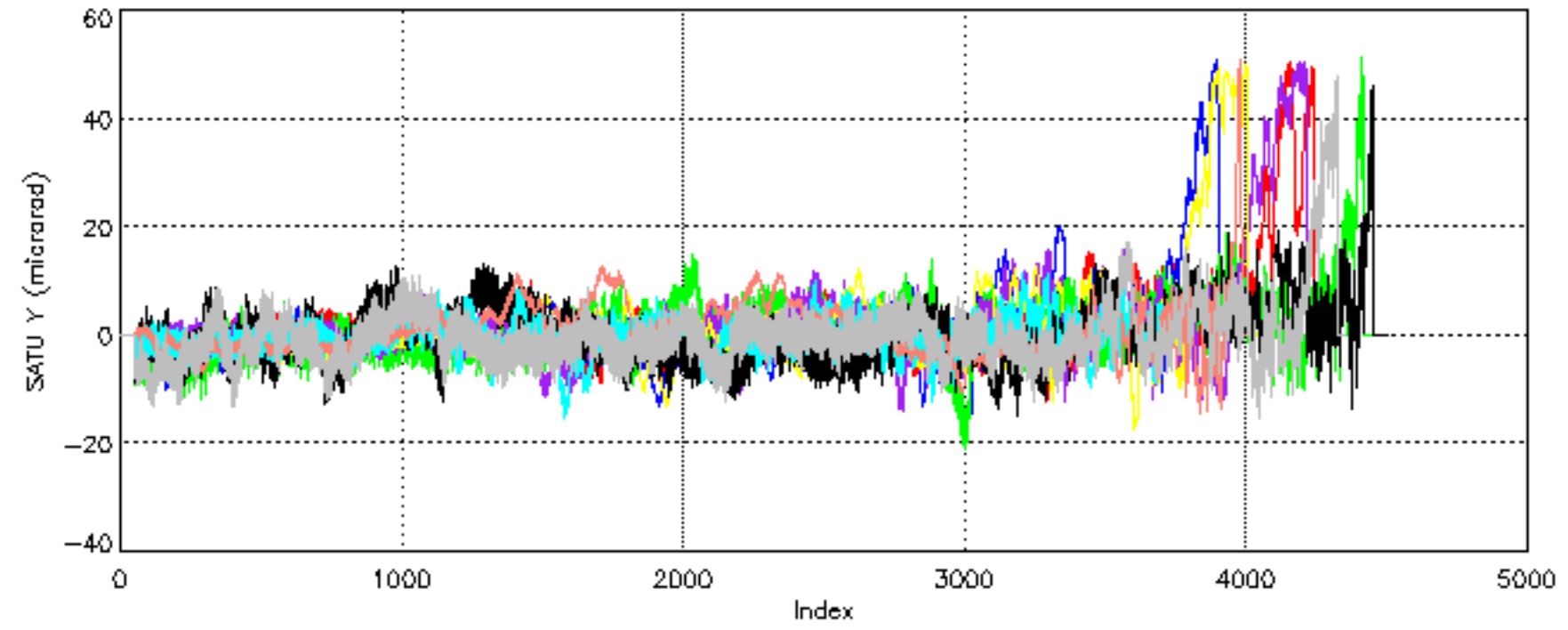
Tangent altitude at which the star is lost

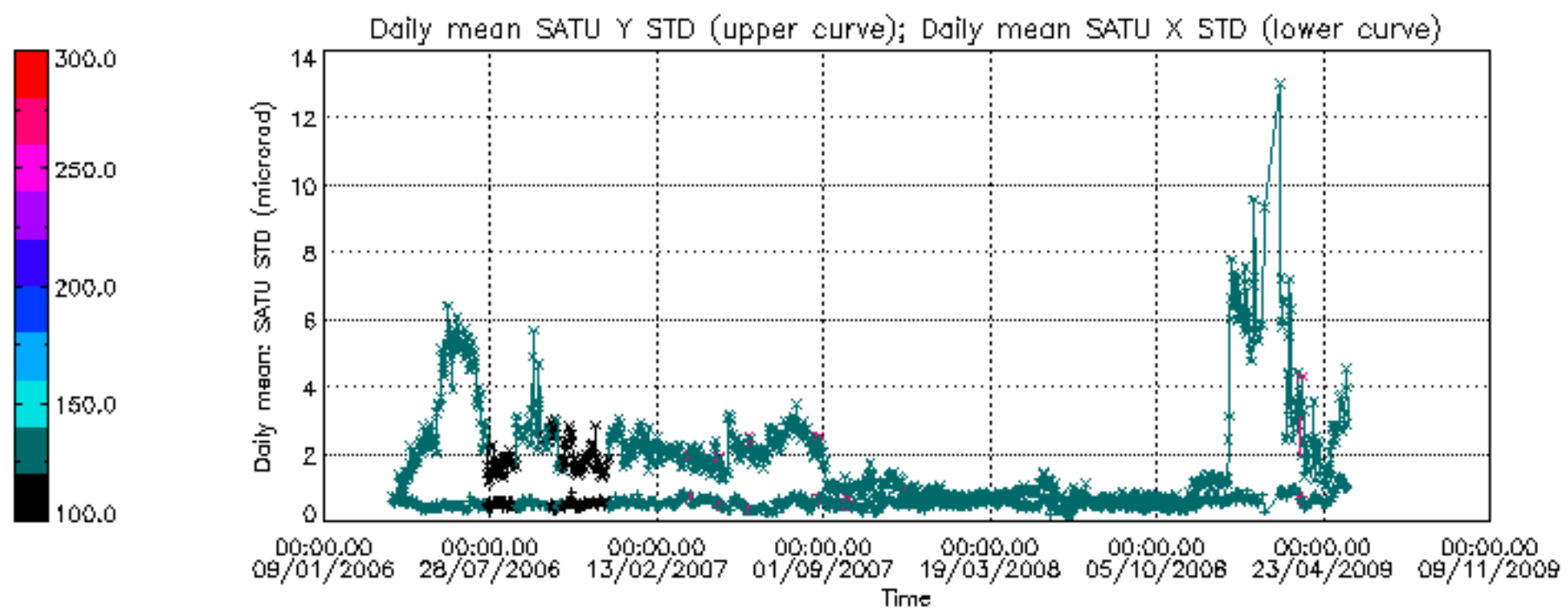


Tangent altitude at which the star is lost









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 2; -476.9; 01-MAY-2009 00:18:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37473
 3; 748.8; 01-MAY-2009 00:38:31; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;37474
 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474
 9; 1728.1; 01-MAY-2009 00:54:50; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37474
 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474
 14; 3828.1; 01-MAY-2009 01:29:50; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37474
 15; 4509.0; 01-MAY-2009 01:41:11; Dark ; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;37474
 16; 5033.8; 01-MAY-2009 01:49:56; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37474
 17; 5179.5; 01-MAY-2009 01:52:22; Dark ; 30.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 60; 0;37474

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 4; 749.7; 01-MAY-2009 02:19:08; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;37475
 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475
 15; 3827.8; 01-MAY-2009 03:10:26; Bright; 51.5; 89; 5Alp Cep ; 2.45; 8000;occ; 103; 0;37475

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 2; -1001.3; 01-MAY-2009 03:30:33; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37475
 3; -855.6; 01-MAY-2009 03:32:58; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37475
 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475
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 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476
 10; 1401.5; 01-MAY-2009 04:10:36; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37476
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 14; 2454.3; 01-MAY-2009 04:28:08; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37476
 15; 2634.9; 01-MAY-2009 04:31:09; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37476
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 8; 856.7; 01-MAY-2009 05:42:07; Dark ; 62.5; 25; 35Lam Sco ; 1.62; 28000;occ; 125; 0;37477
 9; 1043.4; 01-MAY-2009 05:45:13; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;37477
 10; 1267.9; 01-MAY-2009 05:48:58; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37477
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 13; 1728.1; 01-MAY-2009 05:56:38; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37477
 14; 2263.7; 01-MAY-2009 06:05:34; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37477
 15; 2453.6; 01-MAY-2009 06:08:44; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37477
 16; 2634.5; 01-MAY-2009 06:11:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37477

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2; 1050.0; 01-MAY-2009 20:50:44; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37486
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9; 2630.2; 01-MAY-2009 21:17:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37486
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11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
12; 4511.0; 01-MAY-2009 21:48:25; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37486
13; 5044.1; 01-MAY-2009 21:57:18; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37486
14; 5189.4; 01-MAY-2009 21:59:43; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;37486
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3; -461.7; 01-MAY-2009 22:06:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37486
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5; 866.0; 01-MAY-2009 22:28:15; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37487
6; 1050.2; 01-MAY-2009 22:31:20; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37487
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13; 2629.7; 01-MAY-2009 22:57:39; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37487
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4; 867.0; 02-MAY-2009 00:08:52; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37488
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5; 3196.3; 02-MAY-2009 14:12:29; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;37496
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5; 3813.2; 04-MAY-2009 08:17:44; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37521
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4; 798.7; 05-MAY-2009 03:34:41; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37533
5; 907.5; 05-MAY-2009 03:36:30; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37533
6; 1081.0; 05-MAY-2009 03:39:23; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37533
7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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2; -1488.0; 05-MAY-2009 04:37:10; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37533
3; -804.6; 05-MAY-2009 04:48:34; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37533
4; -402.5; 05-MAY-2009 04:55:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37533

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5; 799.7; 05-MAY-2009 05:15:18; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37534
6; 909.0; 05-MAY-2009 05:17:07; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37534
7; 1081.6; 05-MAY-2009 05:20:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37534
8; 1294.2; 05-MAY-2009 05:23:32; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37534
9; 1417.7; 05-MAY-2009 05:25:36; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37534
10; 1725.5; 05-MAY-2009 05:30:44; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37534
11; 2427.5; 05-MAY-2009 05:42:26; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37534
12; 2527.7; 05-MAY-2009 05:44:06; Bright; 50.0; 67; 5Alp CrB ; 2.22; 11000;occ; 100; 0;37534
13; 2611.0; 05-MAY-2009 05:45:29; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37534
14; 3173.5; 05-MAY-2009 05:54:52; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37534

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2; 1087.2; 05-MAY-2009 20:25:29; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;37543
3; 1298.3; 05-MAY-2009 20:29:00; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37543
4; 1420.4; 05-MAY-2009 20:31:02; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37543
5; 1726.0; 05-MAY-2009 20:36:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37543
6; 2423.5; 05-MAY-2009 20:47:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37543
7; 2607.5; 05-MAY-2009 20:50:49; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37543
8; 3168.4; 05-MAY-2009 21:00:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37543
9; 3805.9; 05-MAY-2009 21:10:48; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37543
10; 4549.7; 05-MAY-2009 21:23:11; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37543
11; 4798.4; 05-MAY-2009 21:27:20; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37543
12; 5241.3; 05-MAY-2009 21:34:43; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37543

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2; -388.9; 05-MAY-2009 21:41:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37543
3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544
4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544
5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544
6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544
7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544
8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544
9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544
10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544
11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544
12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544
13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544
14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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2; 808.3; 05-MAY-2009 23:42:02; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37545
3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545
4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545
5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545
6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545
7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545
8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545
9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545
10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545
11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545
12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545
13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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2; -1487.7; 05-MAY-2009 06:17:47; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37534
3; -803.7; 05-MAY-2009 06:29:11; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37534
4; -401.1; 05-MAY-2009 06:35:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37534
5; 800.6; 05-MAY-2009 06:55:55; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37535
6; 909.4; 05-MAY-2009 06:57:44; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37535
7; 1082.3; 05-MAY-2009 07:00:37; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37535
8; 1294.7; 05-MAY-2009 07:04:09; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37535
9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
10; 1726.1; 05-MAY-2009 07:11:20; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;37535

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2; 2427.0; 05-MAY-2009 07:23:01; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;37535
3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535
4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
13; 7331.1; 05-MAY-2009 08:44:45; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37535
14; 7454.7; 05-MAY-2009 08:46:49; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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2; 2610.2; 05-MAY-2009 09:06:40; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;37536
3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
12; 7331.7; 05-MAY-2009 10:25:22; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37536
13; 7454.9; 05-MAY-2009 10:27:25; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37536
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3; 2610.1; 05-MAY-2009 10:47:16; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37537
4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
6; 4548.7; 05-MAY-2009 11:19:35; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37537
7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
9; 5638.8; 05-MAY-2009 11:37:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37537
10; 6839.4; 05-MAY-2009 11:57:45; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37537
11; 6948.2; 05-MAY-2009 11:59:34; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37537
12; 7120.2; 05-MAY-2009 12:02:26; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37537
13; 7332.1; 05-MAY-2009 12:05:58; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37537
14; 7455.2; 05-MAY-2009 12:08:01; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37537
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3; 2609.3; 05-MAY-2009 12:27:51; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37538
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5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
6; 4548.9; 05-MAY-2009 13:00:11; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37538
7; 4796.6; 05-MAY-2009 13:04:19; Dark ; 33.5; 90; 54Alp Peg ; 2.49; 11000;occ; 67; 0;37538
8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
10; 6840.0; 05-MAY-2009 13:38:22; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;37538
11; 6949.3; 05-MAY-2009 13:40:11; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37538
12; 7120.8; 05-MAY-2009 13:43:03; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37538
13; 7332.5; 05-MAY-2009 13:46:34; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37538
14; 7455.3; 05-MAY-2009 13:48:37; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37538
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4; 3807.7; 05-MAY-2009 14:28:26; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37539
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7; 5237.0; 05-MAY-2009 14:52:15; Dark ; 48.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 96; 0;37539
8; 5641.6; 05-MAY-2009 14:58:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37539
9; 6840.5; 05-MAY-2009 15:18:58; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37539
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3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
4; 2608.5; 05-MAY-2009 15:49:02; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37540
5; 3170.6; 05-MAY-2009 15:58:24; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37540
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8; 4797.3; 05-MAY-2009 16:25:31; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37540
9; 5238.0; 05-MAY-2009 16:32:52; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37540
10; 5643.0; 05-MAY-2009 16:39:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37540
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6; 1089.6; 06-MAY-2009 03:07:55; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37547
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9; 2417.3; 06-MAY-2009 23:37:14; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37559

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6; 3792.4; 08-MAY-2009 12:53:19; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37581
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12; 6984.7; 08-MAY-2009 13:46:32; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;37581
13; 7146.6; 08-MAY-2009 13:49:14; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;37581
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3; 3146.4; 08-MAY-2009 14:23:09; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37582
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5; 4557.5; 08-MAY-2009 14:46:40; Dark ; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;37582
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6; 4557.6; 08-MAY-2009 16:27:17; Dark ; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;37583
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8; 5283.8; 08-MAY-2009 16:39:23; Dark ; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;37583
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5; 2980.5; 31-MAY-2009 15:38:01; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;37912
6; 3631.9; 31-MAY-2009 15:48:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37912
7; 3934.9; 31-MAY-2009 15:53:56; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37912
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