

GOMOS Daily Report 26-JUN-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 | 28JUN2009 04:31:34 |
| Data source version | GOMOS/5.00 |
| Start time of products | 26JUN2009 00:01:11 |
| Stop time of products | 26JUN2009 04:49:50 |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 0 |

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

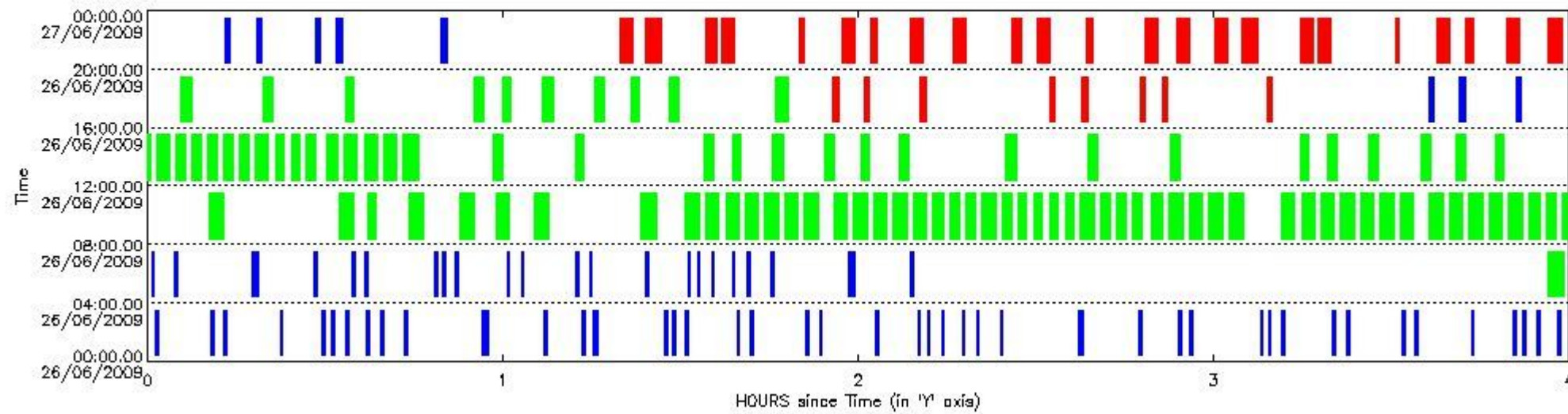
2.1 Level 0 products arrived in PCF (see template [here](#))

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 |
|----------------------|-----------|---------|-------|
| 26-JUN-2009 17:55:37 | DSA1035 | 0 | 38286 |
| 26-JUN-2009 18:00:53 | DSA1037 | 0 | 38286 |
| 26-JUN-2009 18:10:21 | DSA1040 | 0 | 38286 |
| 26-JUN-2009 18:32:15 | DSA1076 | 0 | 38286 |
| 26-JUN-2009 18:37:40 | DSA1077 | 0 | 38286 |
| 26-JUN-2009 18:47:36 | DSA1106 | 0 | 38286 |
| 26-JUN-2009 18:51:13 | DSA1105 | 0 | 38286 |
| 26-JUN-2009 19:08:56 | DSA1102 | 0 | 38286 |
| 26-JUN-2009 21:19:36 | BetGru | 63 | 38288 |
| 26-JUN-2009 21:24:02 | GamGru | 172 | 38288 |
| 26-JUN-2009 21:34:06 | 38ZetSgr | 103 | 38288 |
| 26-JUN-2009 21:36:53 | 41PiSgr | 155 | 38288 |
| 26-JUN-2009 21:50:04 | 17ZetAql | 168 | 38288 |
| 26-JUN-2009 21:57:12 | 3AlpLyr | 5 | 38288 |
| 26-JUN-2009 22:01:56 | 18DelCyg | 144 | 38288 |

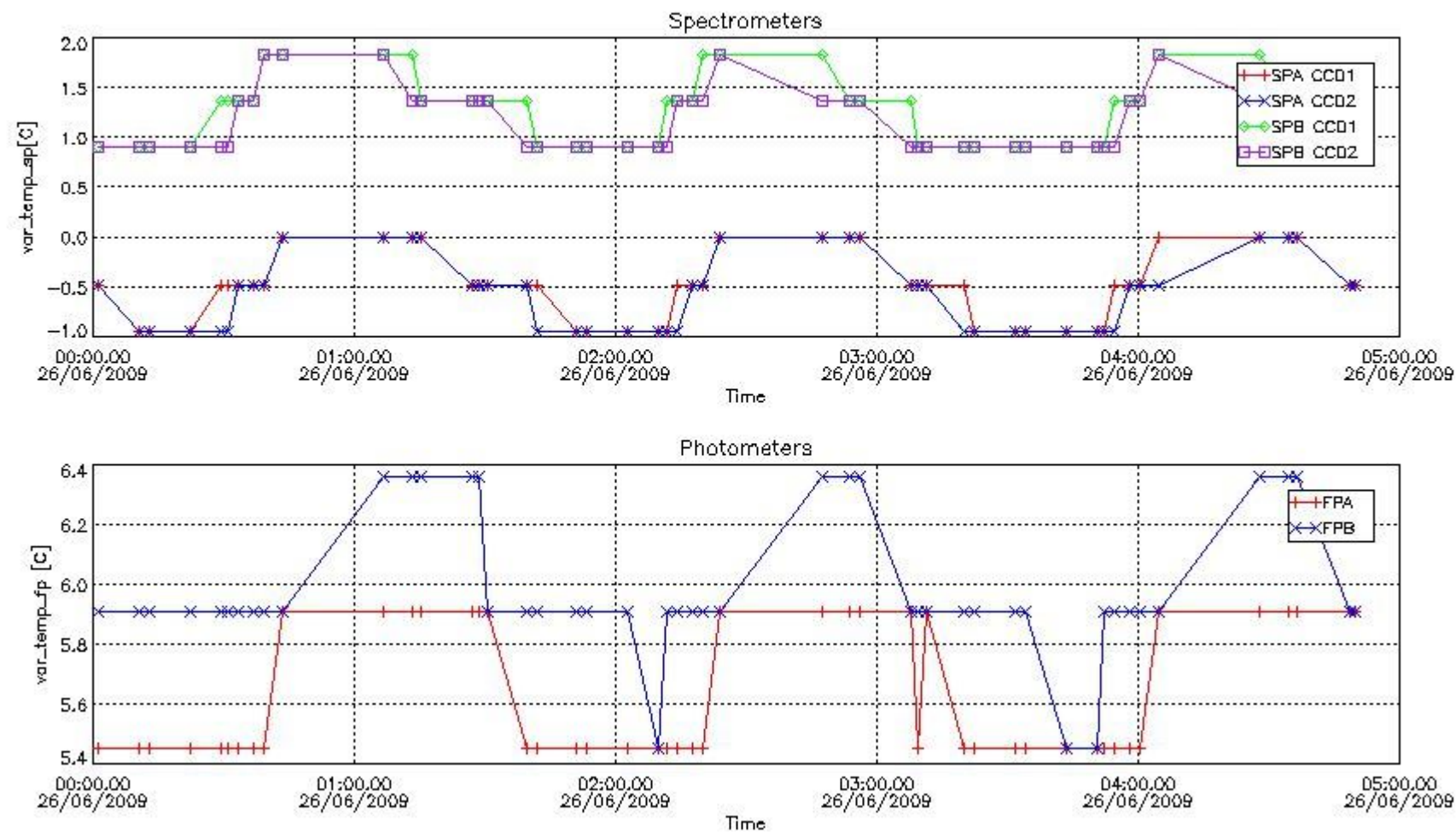
| | | | |
|----------------------|----------|-----|-------|
| 26-JUN-2009 22:08:48 | 5AlpCep | 89 | 38288 |
| 26-JUN-2009 22:15:58 | 11BetCas | 74 | 38288 |
| 26-JUN-2009 22:25:53 | 43BetAnd | 53 | 38288 |
| 26-JUN-2009 22:30:08 | 13AlpAri | 50 | 38288 |
| 26-JUN-2009 22:38:30 | DSA1104 | 0 | 38288 |
| 26-JUN-2009 22:48:16 | 16BetCet | 52 | 38288 |
| 26-JUN-2009 22:53:45 | AlpPhe | 84 | 38288 |
| 26-JUN-2009 23:00:13 | BetGru | 63 | 38289 |
| 26-JUN-2009 23:04:40 | GamGru | 172 | 38289 |
| 26-JUN-2009 23:14:46 | 38ZetSgr | 103 | 38289 |
| 26-JUN-2009 23:17:30 | 41PiSgr | 155 | 38289 |
| 26-JUN-2009 23:30:39 | 17ZetAql | 168 | 38289 |
| 26-JUN-2009 23:37:48 | 3AlpLyr | 5 | 38289 |
| 26-JUN-2009 23:42:31 | 18DelCyg | 144 | 38289 |
| 26-JUN-2009 23:49:23 | 5AlpCep | 89 | 38289 |
| 26-JUN-2009 23:56:33 | 11BetCas | 74 | 38289 |

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_1PNPDE20090626_000111_000000282080_00145_38275_2535.N1 | 26-JUN-2009 00:01:11 | Bright | 27.500 | 59 | 55Alp Oph | 2.0800 | 8900.0 | 55 | 38275 | No |
| 2 | GOM_TRA_1PNPDE20090626_001035_000000332080_00145_38275_2536.N1 | 26-JUN-2009 00:10:35 | Bright | 32.500 | 5 | 3Alp Lyr | 0.033000 | 11000. | 65 | 38275 | No |
| 3 | GOM_TRA_1PNPDE20090626_001246_000000282080_00145_38275_2537.N1 | 26-JUN-2009 00:12:46 | Bright | 27.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 55 | 38275 | No |
| 4 | GOM_TRA_1PNPDE20090626_002216_000000322080_00145_38275_2538.N1 | 26-JUN-2009 00:22:16 | Twilight | 31.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 63 | 38275 | No |
| 5 | GOM_TRA_1PNPDE20090626_002924_000000282080_00145_38275_2539.N1 | 26-JUN-2009 00:29:24 | Twilight | 28.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 56 | 38275 | No |
| 6 | GOM_TRA_1PNPDE20090626_003059_000000272080_00145_38275_2540.N1 | 26-JUN-2009 00:30:59 | Twilight | 27.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 54 | 38275 | No |
| 7 | GOM_TRA_1PNPDE20090626_003328_000000222080_00145_38275_2541.N1 | 26-JUN-2009 00:33:28 | Twilight | 21.500 | 160 | 23Gam Per | 2.9300 | 4700.0 | 43 | 38275 | No |
| 8 | GOM_TRA_1PNPDE20090626_003654_000000242080_00145_38275_2542.N1 | 26-JUN-2009 00:36:54 | Twilight | 23.500 | 73 | 57Gam1And | 2.2600 | 13100. | 47 | 38275 | No |
| 9 | GOM_TRA_1PNPDE20090626_003923_000000242080_00145_38275_2543.N1 | 26-JUN-2009 00:39:23 | Twilight | 23.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 47 | 38275 | No |
| 10 | GOM_TRA_1PNPDE20090626_004321_000000252080_00145_38275_2544.N1 | 26-JUN-2009 00:43:21 | Dark | 24.500 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 49 | 38275 | No |
| 11 | GOM_TRA_1PNPDE20090626_010647_000000332080_00146_38276_2667.N1 | 26-JUN-2009 01:06:47 | Dark | 32.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 65 | 38276 | No |
| 12 | GOM_TRA_1PNPDE20090626_011317_000000352080_00146_38276_2668.N1 | 26-JUN-2009 01:13:17 | Straylight | 35.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 70 | 38276 | No |
| 13 | GOM_TRA_1PNPDE20090626_011517_000000352080_00146_38276_2669.N1 | 26-JUN-2009 01:15:17 | Straylight | 34.500 | 31 | Alp Gru | 1.7340 | 15200. | 69 | 38276 | No |
| 14 | GOM_TRA_1PNPDE20090626_012714_000000272080_00146_38276_2670.N1 | 26-JUN-2009 01:27:14 | Twilight | 26.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 53 | 38276 | No |
| 15 | GOM_TRA_1PNPDE20090626_012838_000000272080_00146_38276_2671.N1 | 26-JUN-2009 01:28:38 | Twilight | 27.000 | 116 | 19Del Sgr | 2.7000 | 4100.0 | 54 | 38276 | No |
| 16 | GOM_TRA_1PNPDE20090626_013046_000000322080_00146_38276_2672.N1 | 26-JUN-2009 01:30:46 | Twilight | 32.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 64 | 38276 | No |
| 17 | GOM_TRA_1PNPDE20090626_013925_000000272080_00146_38276_2673.N1 | 26-JUN-2009 01:39:25 | Twilight | 27.000 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 54 | 38276 | No |
| 18 | GOM_TRA_1PNPDE20090626_014148_000000272080_00146_38276_2674.N1 | 26-JUN-2009 01:41:48 | Bright | 27.000 | 59 | 55Alp Oph | 2.0800 | 8900.0 | 54 | 38276 | No |
| 19 | GOM_TRA_1PNPDE20090626_015110_000000332080_00146_38276_2675.N1 | 26-JUN-2009 01:51:10 | Bright | 33.000 | 5 | 3Alp Lyr | 0.033000 | 11000. | 66 | 38276 | No |
| 20 | GOM_TRA_1PNPDE20090626_015322_000000282080_00146_38276_2676.N1 | 26-JUN-2009 01:53:22 | Bright | 27.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 55 | 38276 | No |
| 21 | GOM_TRA_1PNPDE20090626_020251_000000312080_00146_38276_2677.N1 | 26-JUN-2009 02:02:51 | Twilight | 31.000 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 62 | 38276 | No |
| 22 | GOM_TRA_1PNPDE20090626_020959_000000282080_00146_38276_2678.N1 | 26-JUN-2009 02:09:59 | Twilight | 28.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 56 | 38276 | No |
| 23 | GOM_TRA_1PNPDE20090626_021135_000000272080_00146_38276_2679.N1 | 26-JUN-2009 02:11:35 | Twilight | 27.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 54 | 38276 | No |
| 24 | GOM_TRA_1PNPDE20090626_021404_000000222080_00146_38276_2838.N1 | 26-JUN-2009 02:14:04 | Twilight | 21.500 | 160 | 23Gam Per | 2.9300 | 4700.0 | 43 | 38276 | No |
| 25 | GOM_TRA_1PNPDE20090626_021729_000000242080_00146_38276_2839.N1 | 26-JUN-2009 02:17:29 | Twilight | 23.500 | 73 | 57Gam1And | 2.2600 | 13100. | 47 | 38276 | No |
| 26 | GOM_TRA_1PNPDE20090626_021959_000000242080_00146_38276_2840.N1 | 26-JUN-2009 02:19:59 | Twilight | 23.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 47 | 38276 | No |
| 27 | GOM_TRA_1PNPDE20090626_022357_000000252080_00146_38276_2841.N1 | 26-JUN-2009 02:23:57 | Dark | 25.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 50 | 38276 | No |
| 28 | GOM_TRA_1PNPDE20090626_024724_000000332080_00147_38277_2842.N1 | 26-JUN-2009 02:47:24 | Dark | 32.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 65 | 38277 | No |
| 29 | GOM_TRA_1PNPDE20090626_025354_000000352080_00147_38277_2843.N1 | 26-JUN-2009 02:53:54 | Straylight | 35.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 70 | 38277 | No |
| 30 | GOM_TRA_1PNPDE20090626_025554_000000352080_00147_38277_2844.N1 | 26-JUN-2009 02:55:54 | Straylight | 34.500 | 31 | Alp Gru | 1.7340 | 15200. | 69 | 38277 | No |
| 31 | GOM_TRA_1PNPDE20090626_030750_000000272080_00147_38277_2845.N1 | 26-JUN-2009 03:07:50 | Twilight | 26.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 53 | 38277 | No |
| 32 | GOM_TRA_1PNPDE20090626_030914_000000272080_00147_38277_2846.N1 | 26-JUN-2009 03:09:14 | Twilight | 26.500 | 116 | 19Del Sgr | 2.7000 | 4100.0 | 53 | 38277 | No |
| 33 | GOM_TRA_1PNPDE20090626_031122_000000322080_00147_38277_2847.N1 | 26-JUN-2009 03:11:22 | Twilight | 31.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 63 | 38277 | No |
| 34 | GOM_TRA_1PNPDE20090626_032001_000000272080_00147_38277_2848.N1 | 26-JUN-2009 03:20:01 | Twilight | 27.000 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 54 | 38277 | No |
| 35 | GOM_TRA_1PNPDE20090626_032224_000000272080_00147_38277_2849.N1 | 26-JUN-2009 03:22:24 | Twilight | 26.500 | 59 | 55Alp Oph | 2.0800 | 8900.0 | 53 | 38277 | No |
| 36 | GOM_TRA_1PNPDE20090626_033145_000000332080_00147_38277_2850.N1 | 26-JUN-2009 03:31:45 | Bright | 32.500 | 5 | 3Alp Lyr | 0.033000 | 11000. | 65 | 38277 | No |
| 37 | GOM_TRA_1PNPDE20090626_033358_000000282080_00147_38277_2851.N1 | 26-JUN-2009 03:33:58 | Bright | 27.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 55 | 38277 | No |
| 38 | GOM_TRA_1PNPDE20090626_034327_000000312080_00147_38277_2852.N1 | 26-JUN-2009 03:43:27 | Twilight | 30.500 | 89 | 5Alp Cep | 2.4510 | 8000.0 | 61 | 38277 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|--------|--------|----|-------|----|
| 39 | GOM_TRA_1PNPDE20090626_035035_000000282080_00147_38277_3005.N1 | 26-JUN-2009 03:50:35 | Twilight | 28.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 56 | 38277 | No |
| 40 | GOM_TRA_1PNPDE20090626_035210_000000272080_00147_38277_3006.N1 | 26-JUN-2009 03:52:10 | Twilight | 27.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 54 | 38277 | No |
| 41 | GOM_TRA_1PNPDE20090626_035441_000000212080_00147_38277_3007.N1 | 26-JUN-2009 03:54:41 | Twilight | 21.000 | 160 | 23Gam Per | 2.9300 | 4700.0 | 42 | 38277 | No |
| 42 | GOM_TRA_1PNPDE20090626_035805_000000242080_00147_38277_3008.N1 | 26-JUN-2009 03:58:05 | Twilight | 23.500 | 73 | 57Gam1And | 2.2600 | 13100. | 47 | 38277 | No |
| 43 | GOM_TRA_1PNPDE20090626_040035_000000242080_00147_38277_3009.N1 | 26-JUN-2009 04:00:35 | Twilight | 23.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 47 | 38277 | No |
| 44 | GOM_TRA_1PNPDE20090626_040434_000000252080_00147_38277_3010.N1 | 26-JUN-2009 04:04:34 | Dark | 25.000 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 50 | 38277 | No |
| 45 | GOM_TRA_1PNPDE20090626_042801_000000332080_00148_38278_3011.N1 | 26-JUN-2009 04:28:01 | Dark | 33.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 66 | 38278 | No |
| 46 | GOM_TRA_1PNPDE20090626_043430_000000352080_00148_38278_3012.N1 | 26-JUN-2009 04:34:30 | Straylight | 35.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 70 | 38278 | No |
| 47 | GOM_TRA_1PNPDE20090626_043631_000000352080_00148_38278_3013.N1 | 26-JUN-2009 04:36:31 | Straylight | 34.500 | 31 | Alp Gru | 1.7340 | 15200. | 69 | 38278 | No |
| 48 | GOM_TRA_1PNPDE20090626_044826_000000272080_00148_38278_3014.N1 | 26-JUN-2009 04:48:26 | Twilight | 26.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 53 | 38278 | No |
| 49 | GOM_TRA_1PNPDE20090626_044950_000000272080_00148_38278_3015.N1 | 26-JUN-2009 04:49:50 | Twilight | 27.000 | 116 | 19Del Sgr | 2.7000 | 4100.0 | 54 | 38278 | No |

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

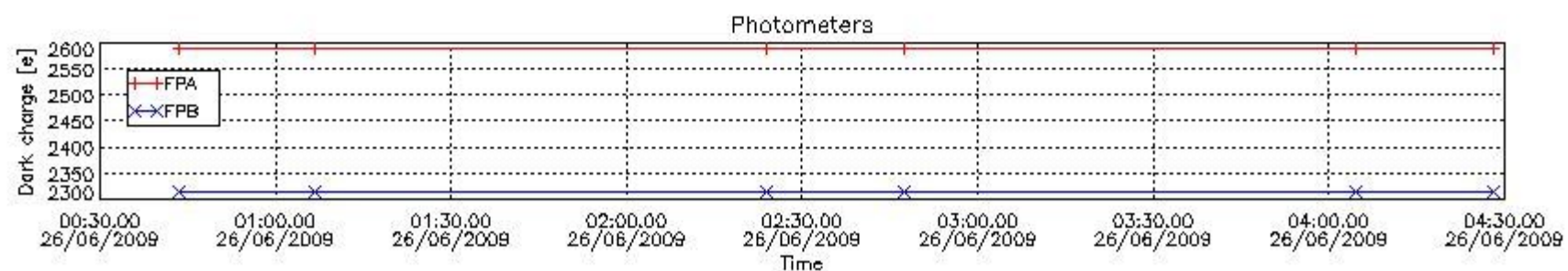
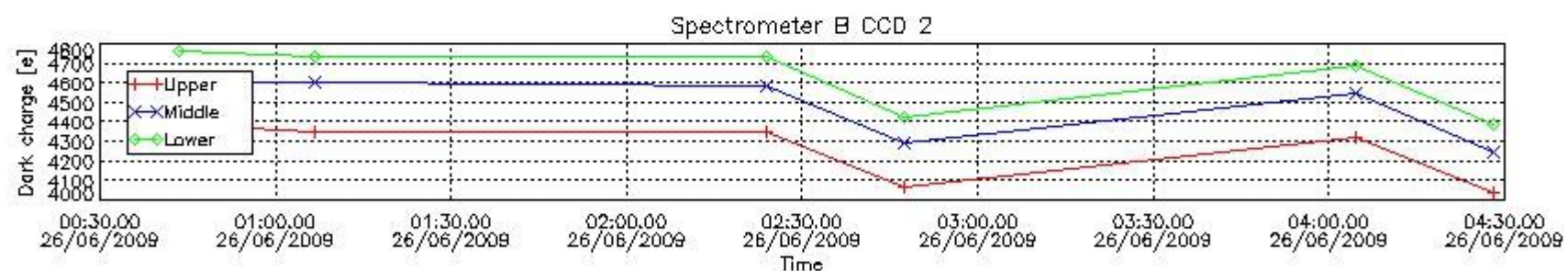
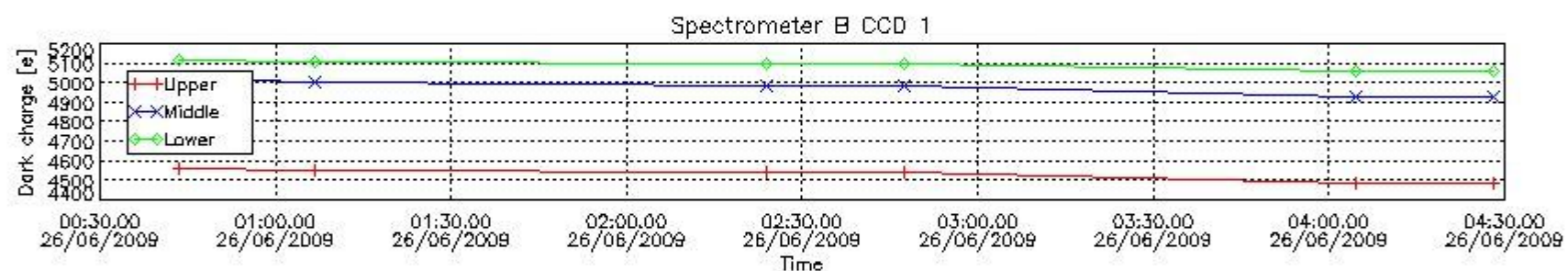
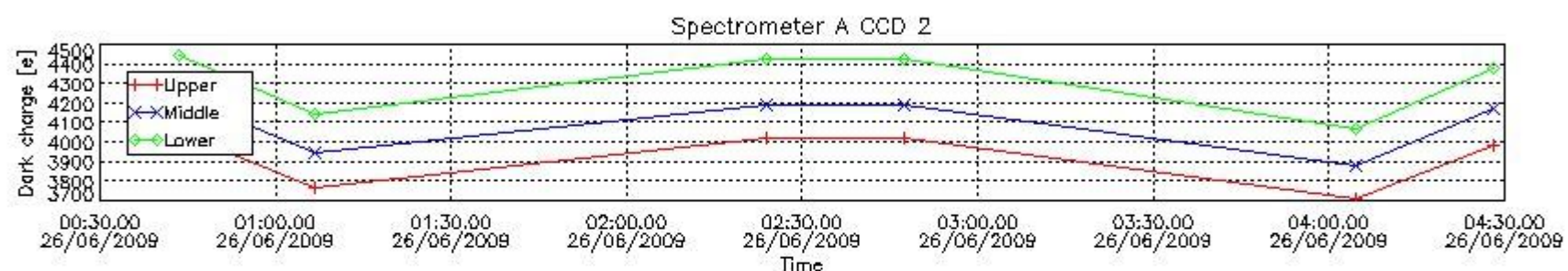
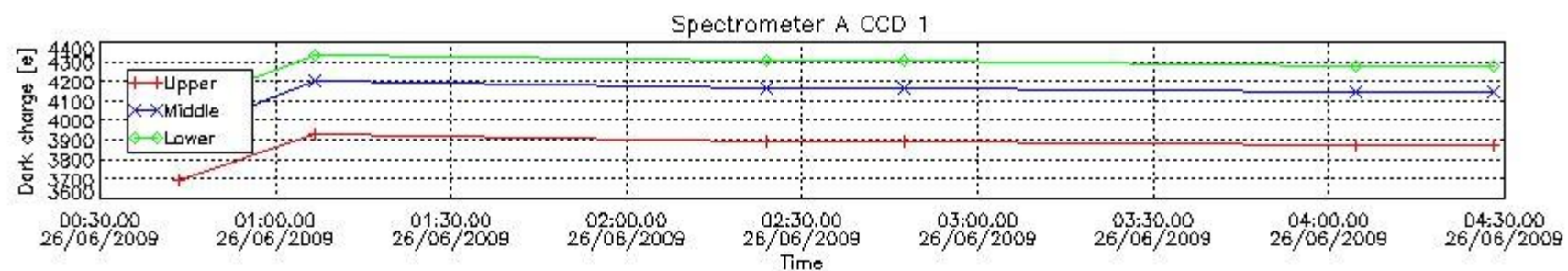


4. Overview of dark signal processing per product

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



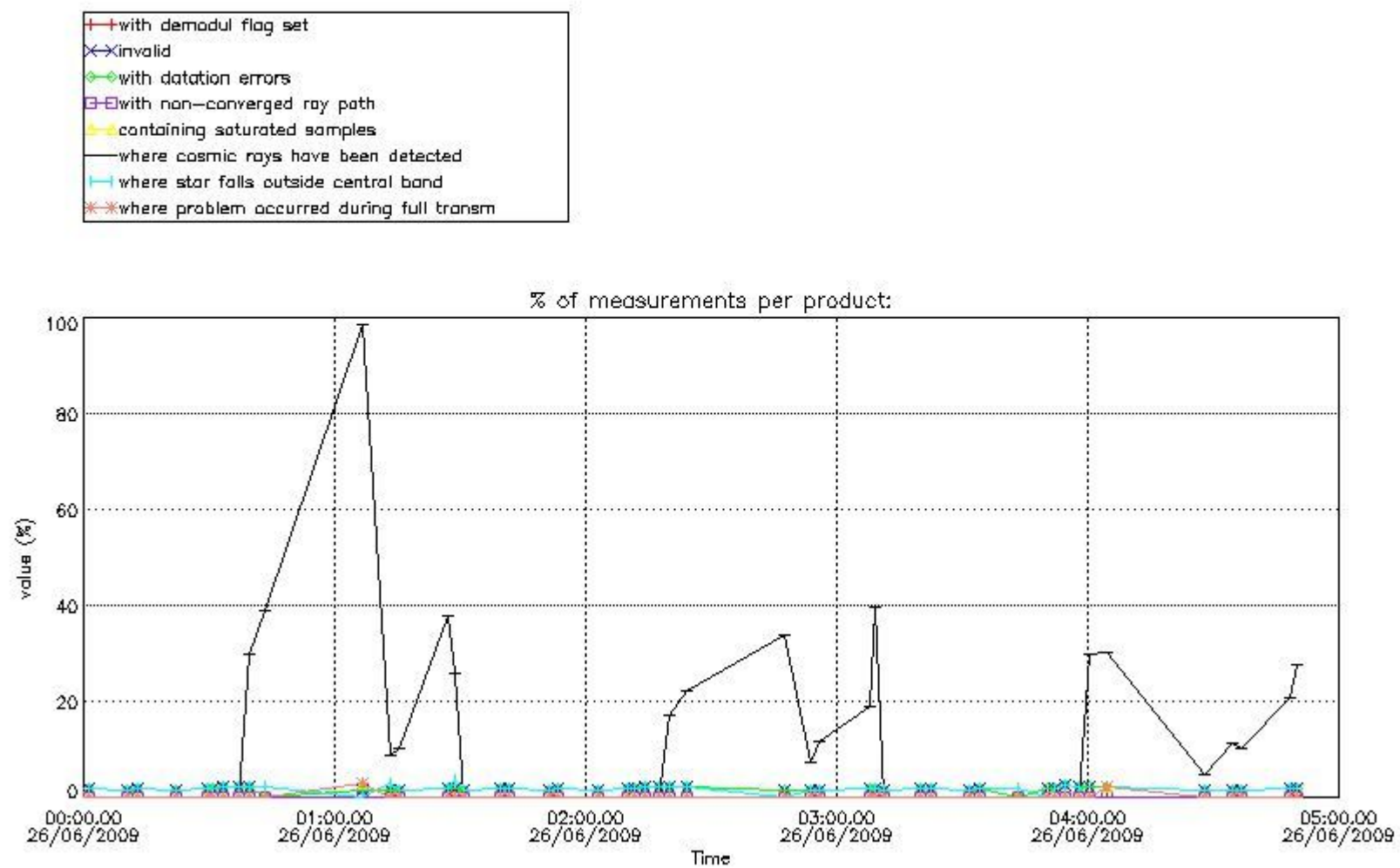
5. Demodulation flag and quality information monitoring

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.

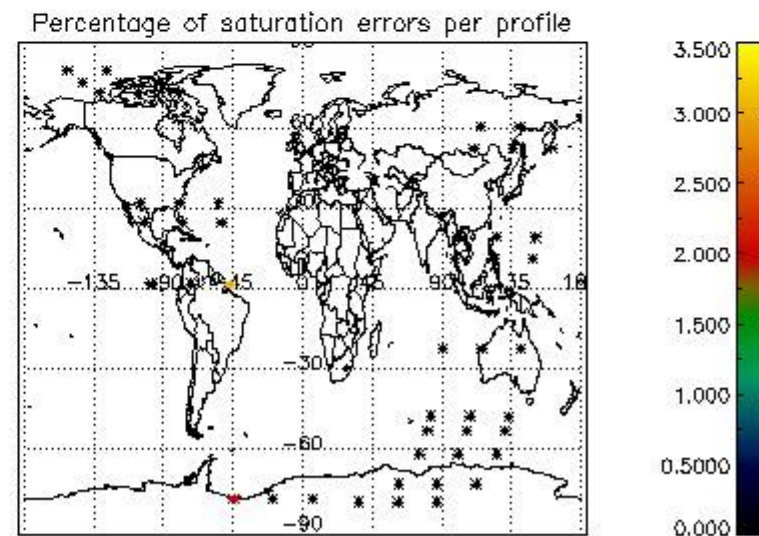
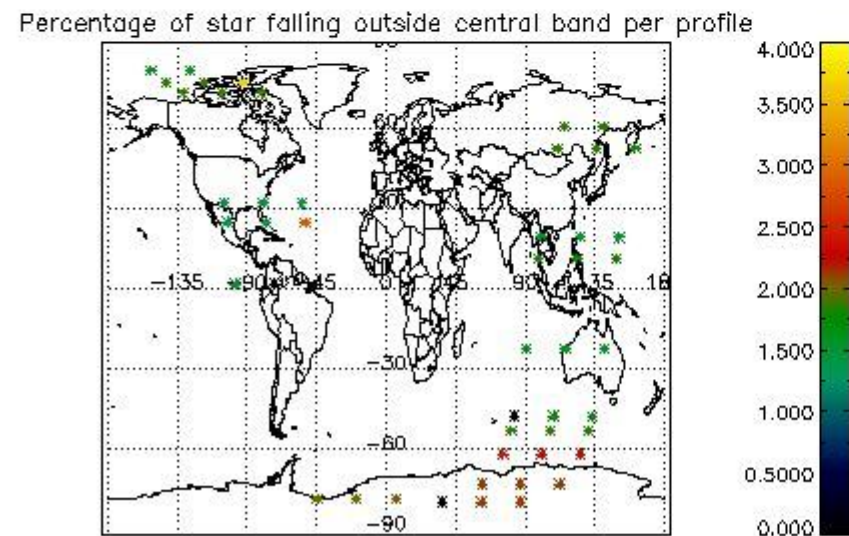
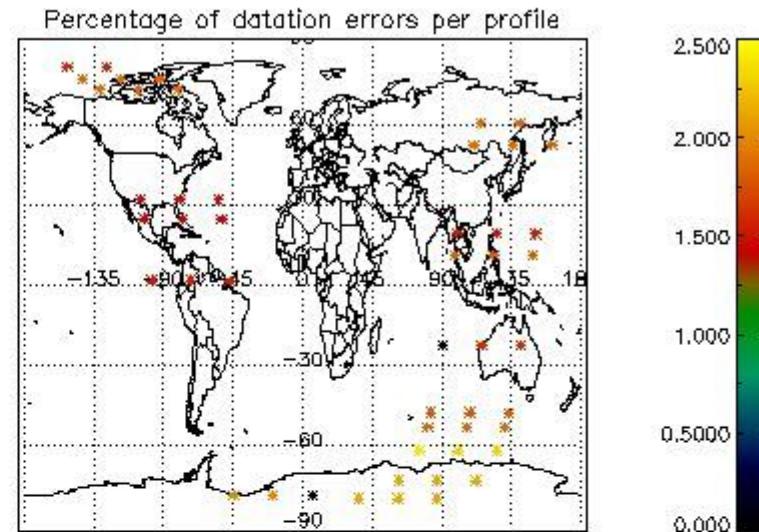
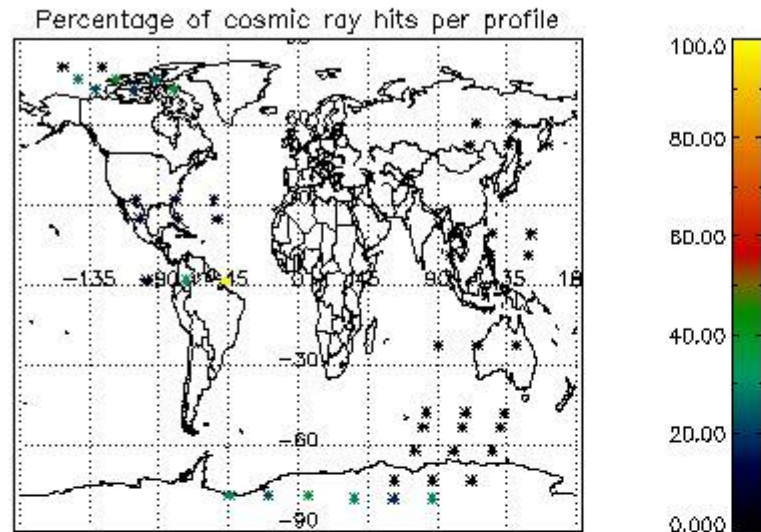
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 22.4490 % |
| 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)



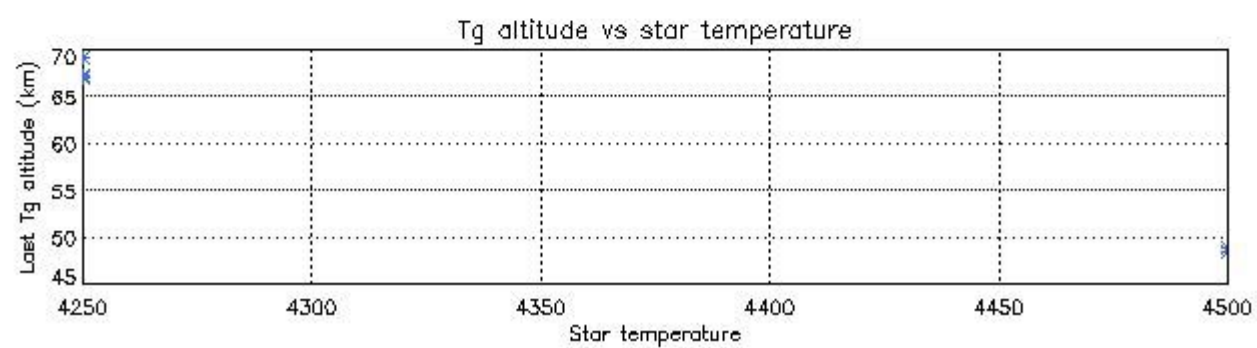
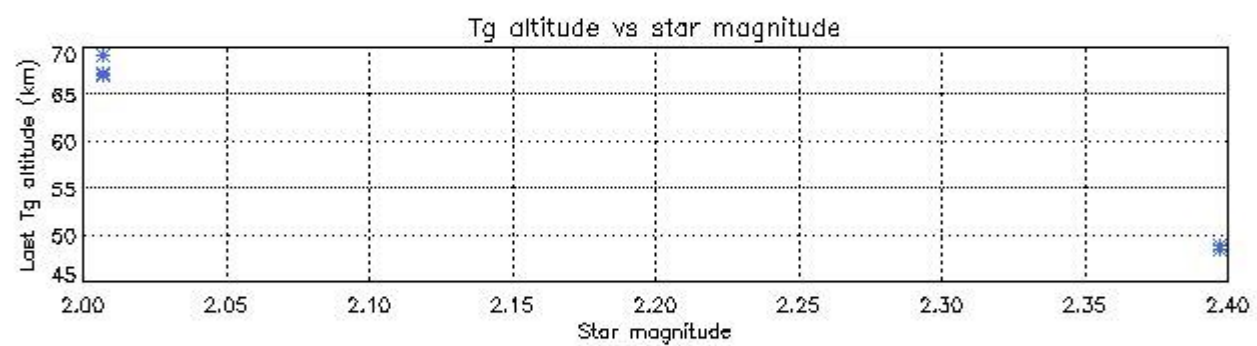
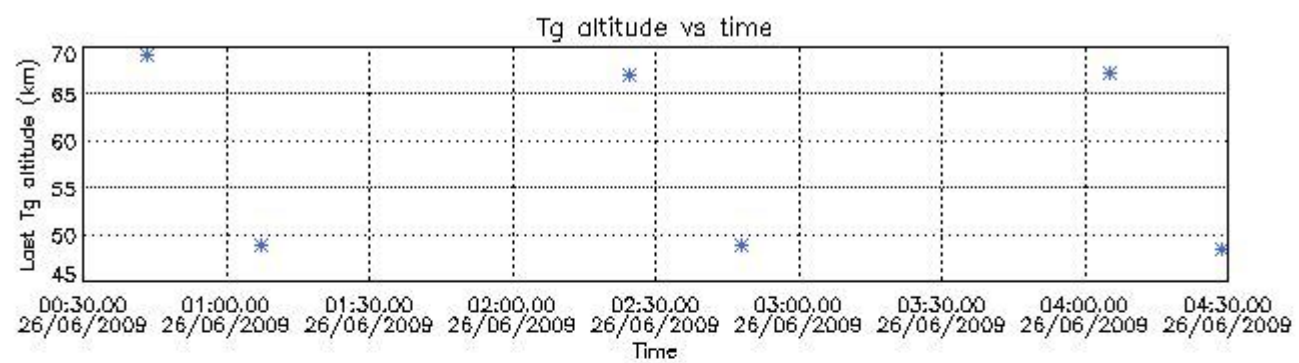
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|---------|----------|
| Mean: | 58.277 | 48.775 | NaN |
| St. deviation: | 10.508 | 0.99428 | NaN |
| Maximum: | 69.163 | 50.179 | NaN |
| Minimum: | 48.444 | 47.414 | NaN |
| Number of data: | 6.0000 | 8.0000 | NaN |

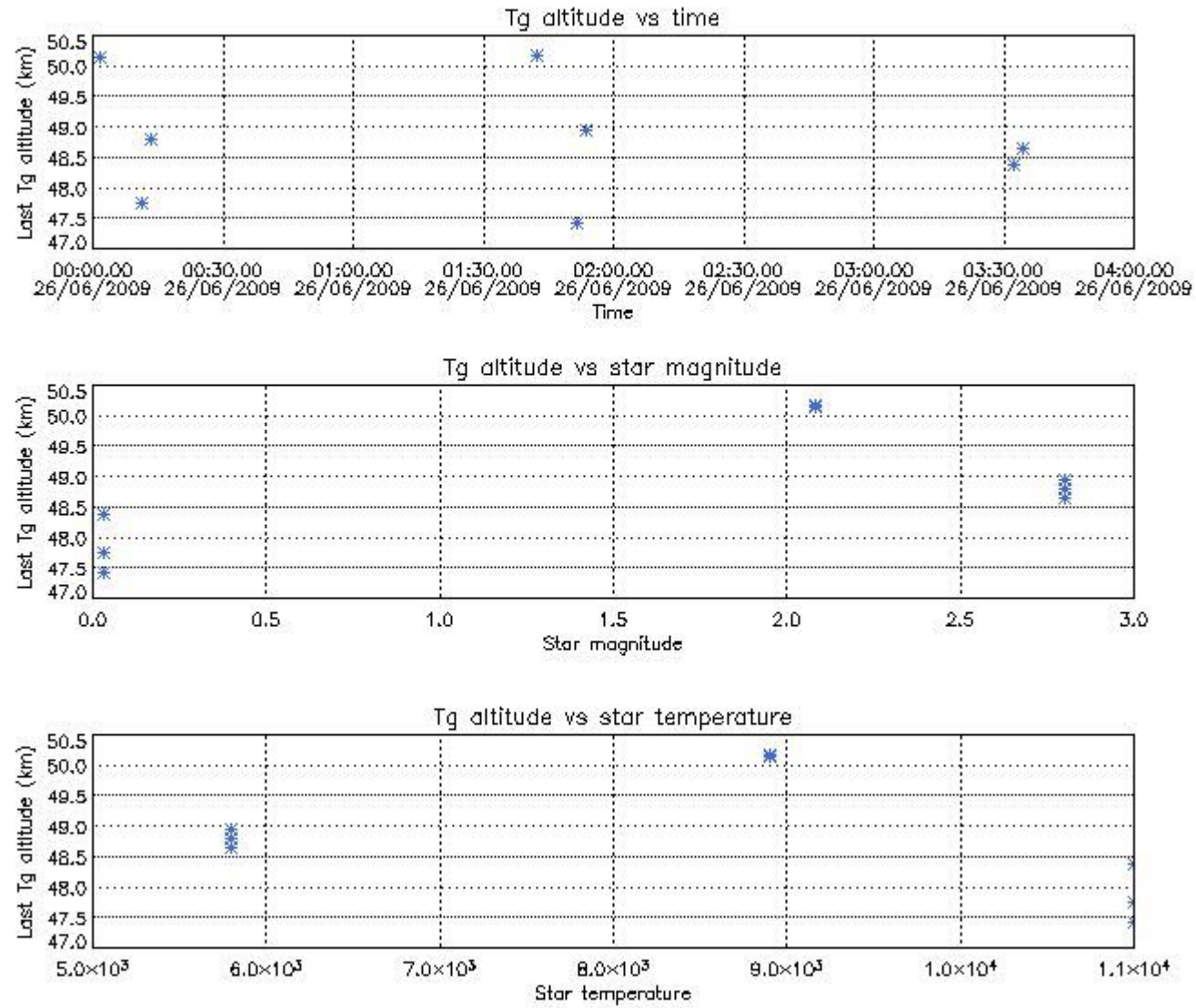
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

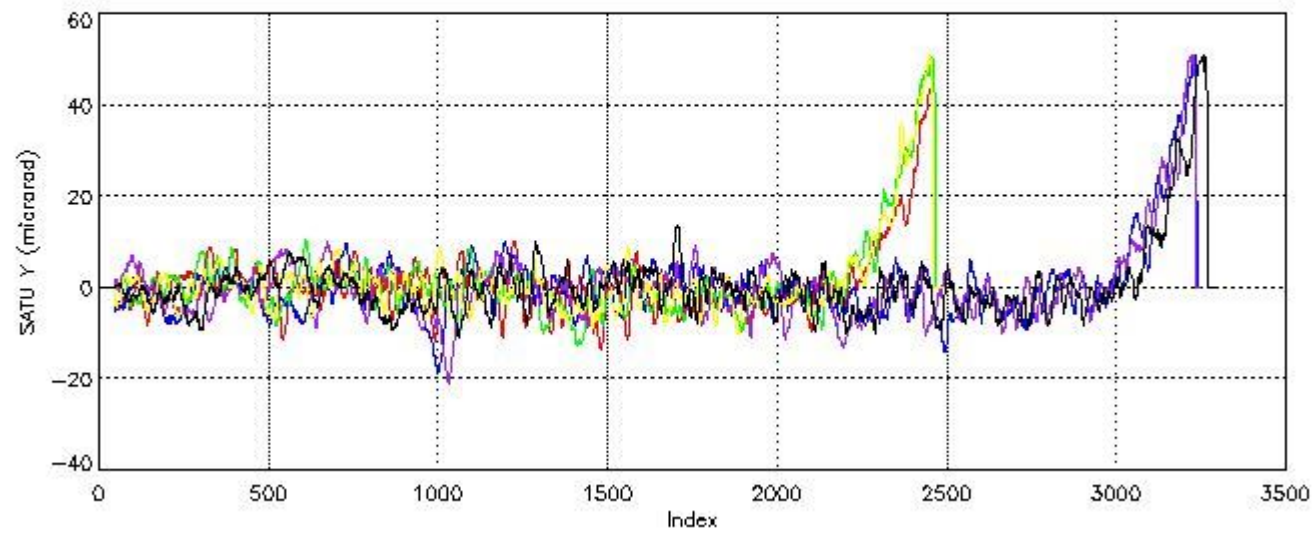
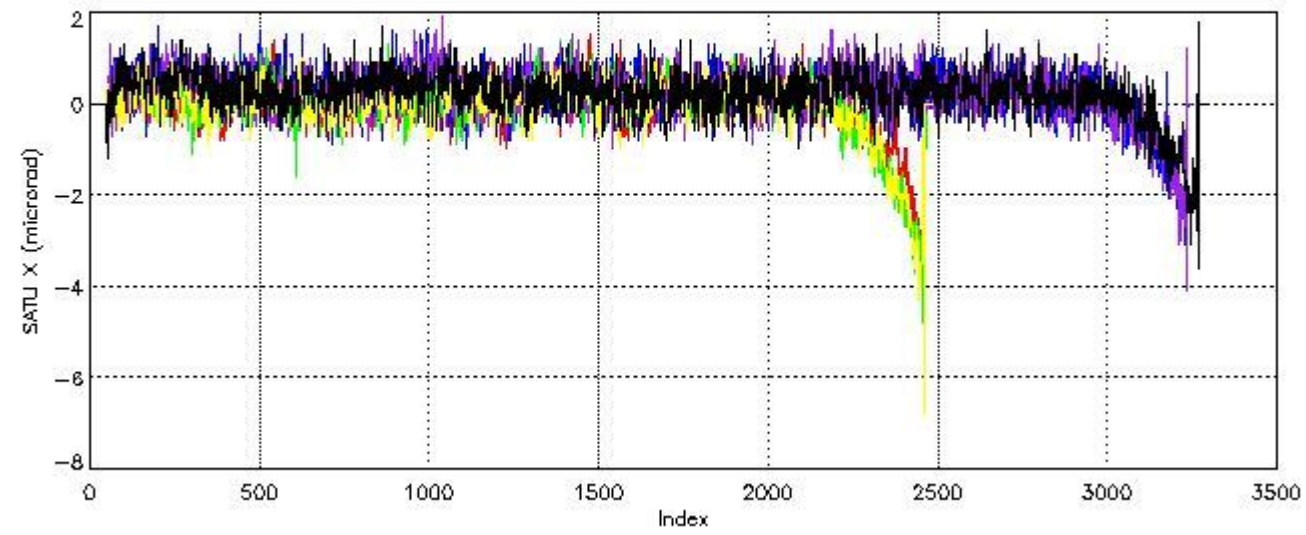


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.21794 | -0.44601 | 0.26685 | -1.1708 |
| St. deviation: | 0.36949 | 3.9673 | 0.58827 | 3.3924 |
| Maximum: | 1.9000 | 10.300 | 2.9000 | 11.600 |
| Minimum: | -1.6000 | -21.300 | -2.4000 | -15.900 |

| | | | | |
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| Number of data: | 6400.0 | 6400.0 | 7550.0 | 7550.0 |
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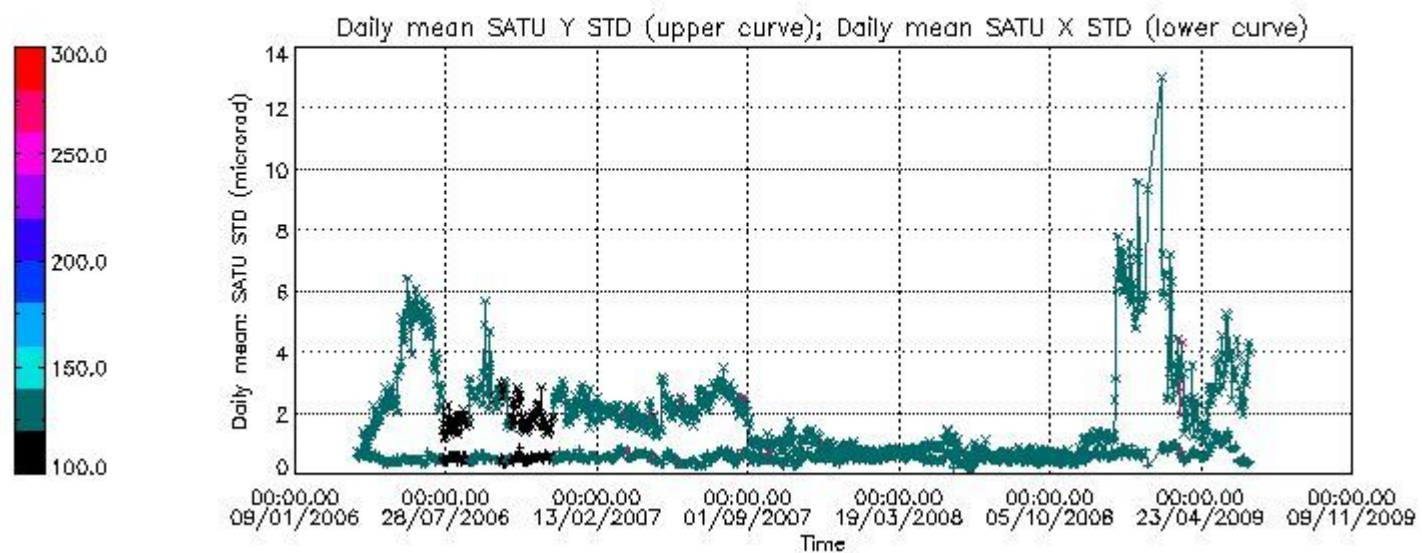
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

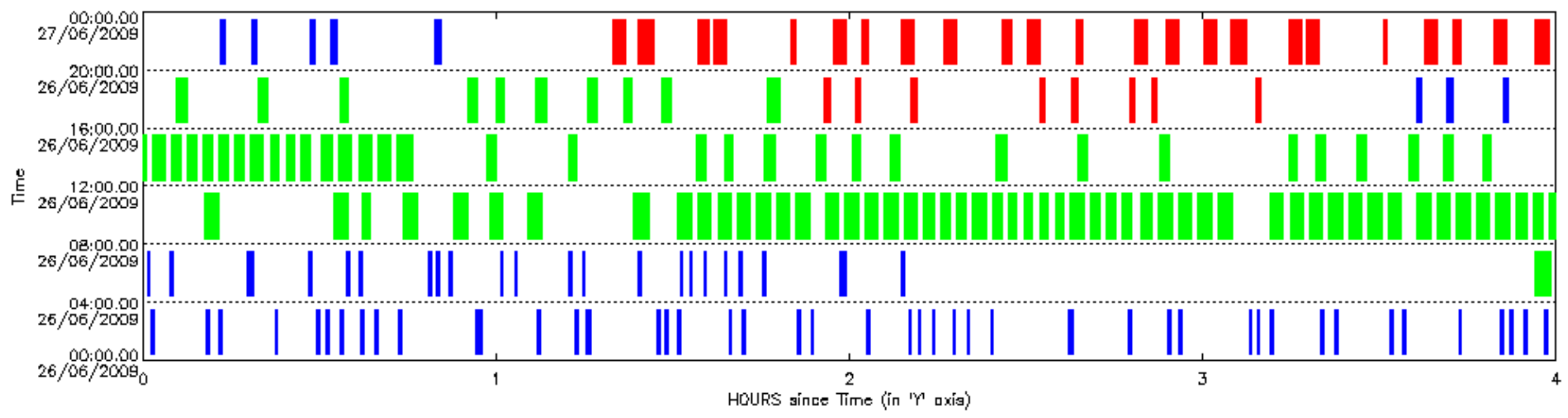
Lower curve: STD of SATU X axis

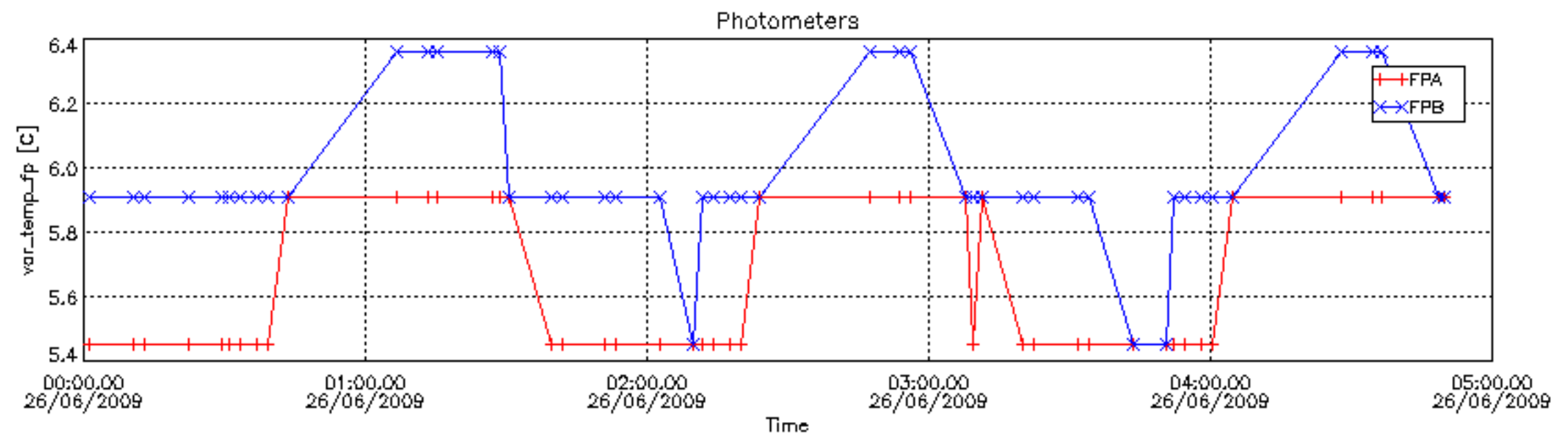
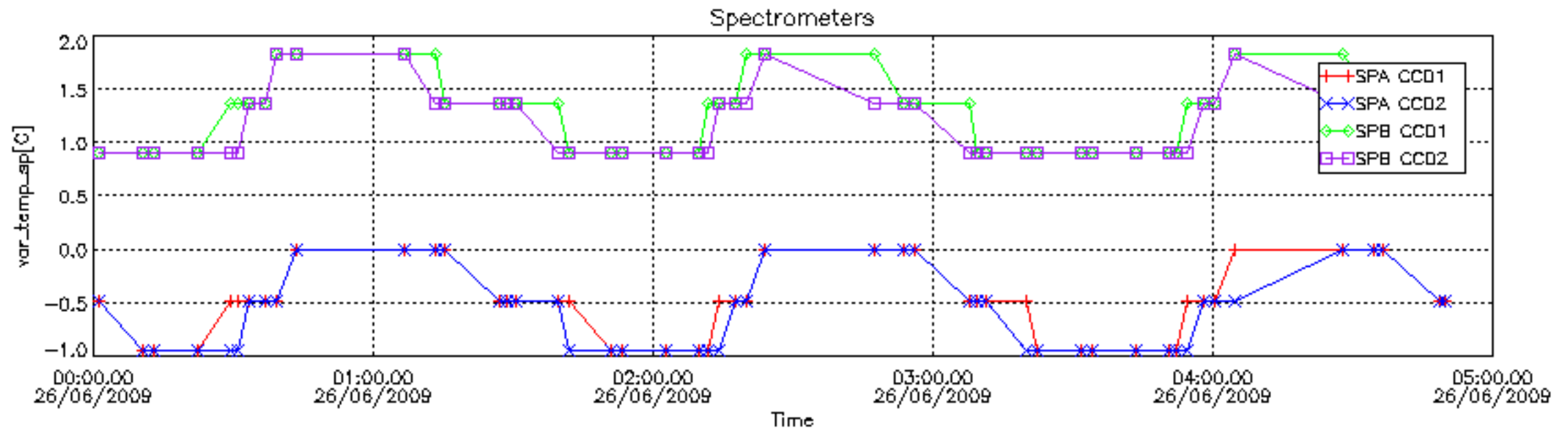


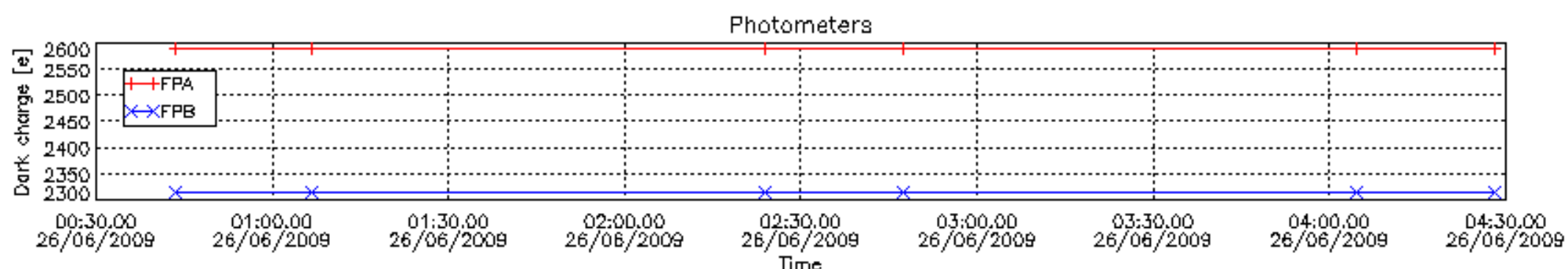
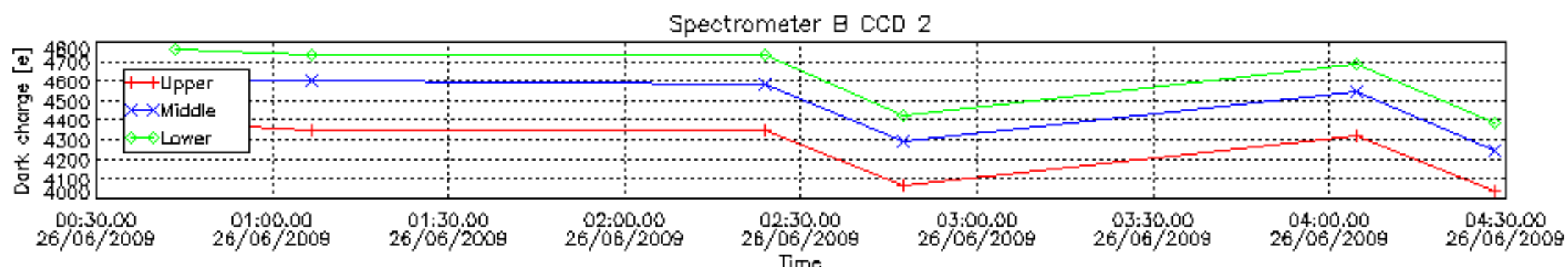
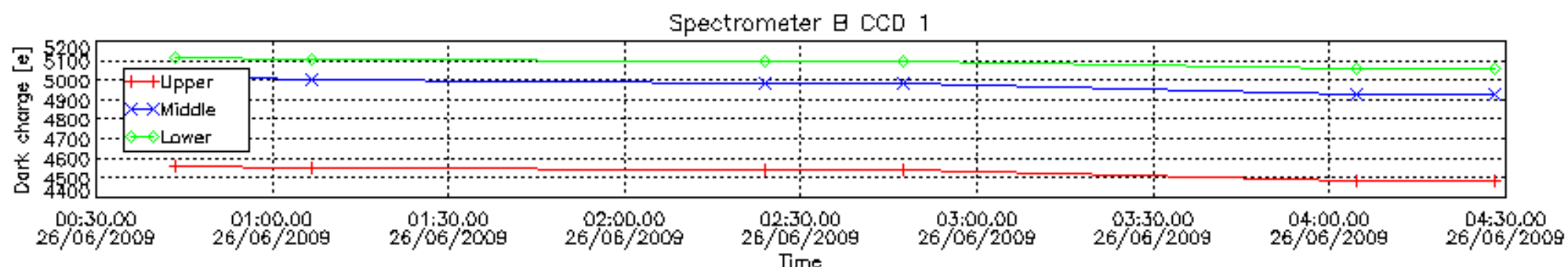
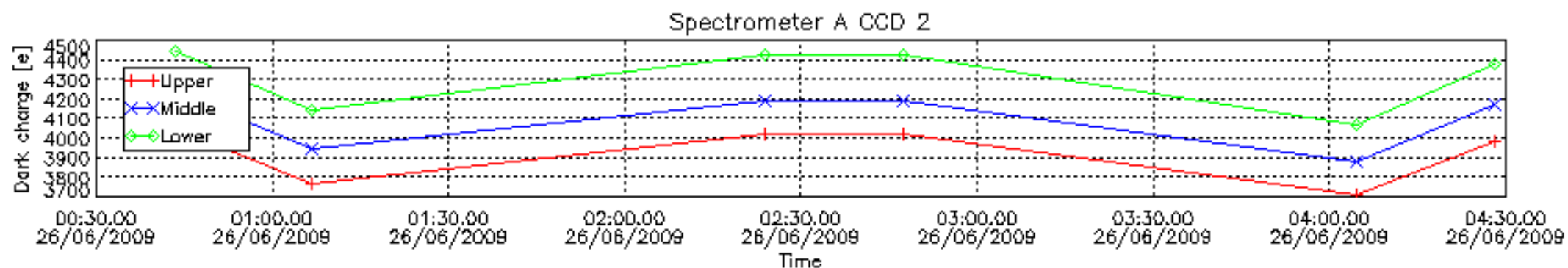
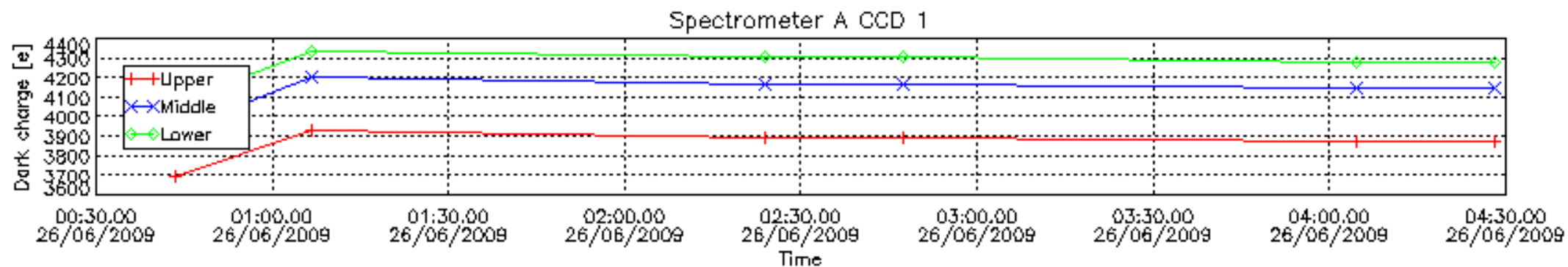
8. Auxiliary Data Files used for the production reported in section 2.4

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.

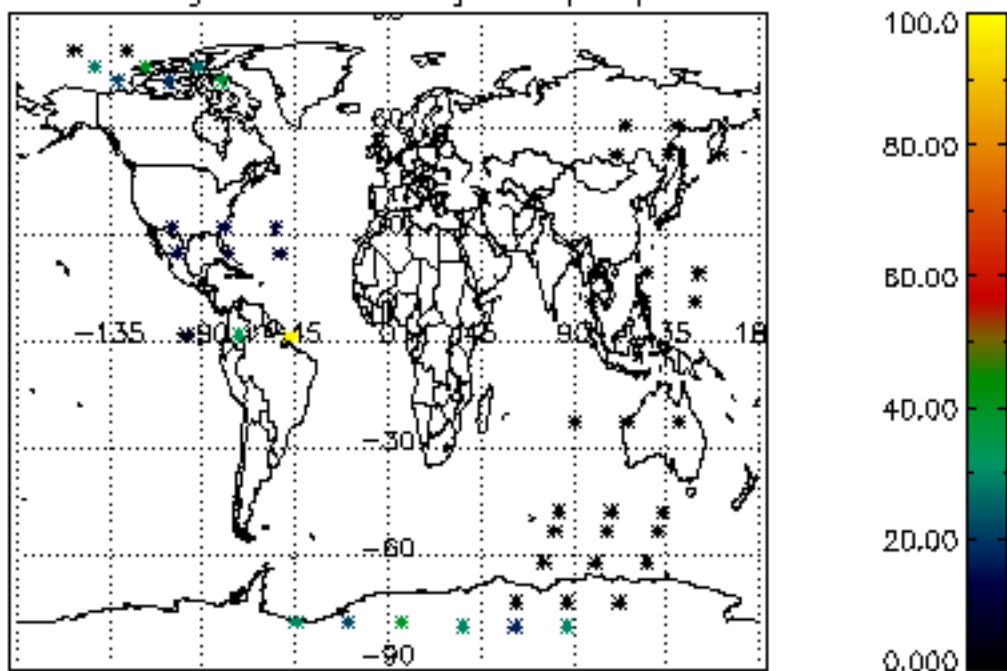
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|---------------------------|--|--------------------|-------------------------|
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| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20090623_092031_20090621_000000_20100101_000000 | 1 | 26-JUN-2009 00:01:11 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 26-JUN-2009 00:01:11 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 26-JUN-2009 00:01:11 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 26-JUN-2009 00:01:11 |
| ECMWF_FILE | AUX_ECF_AXNECM20090625_064111_20090625_210000_20090626_090000 | 1 | 26-JUN-2009 00:01:11 |
| ECMWF_FILE | AUX_ECF_AXNECM20090625_182112_20090626_030000_20090626_150000 | 39 | 26-JUN-2009 03:50:35 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 26-JUN-2009 00:01:11 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090625_212638_000060572080_00143_38273_8225.N1 | 1 | 26-JUN-2009 00:01:11 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090625_231254_000057382080_00144_38274_8226.N1 | 11 | 26-JUN-2009 01:06:47 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090626_005351_000044632080_00145_38275_8227.N1 | 24 | 26-JUN-2009 02:14:04 |
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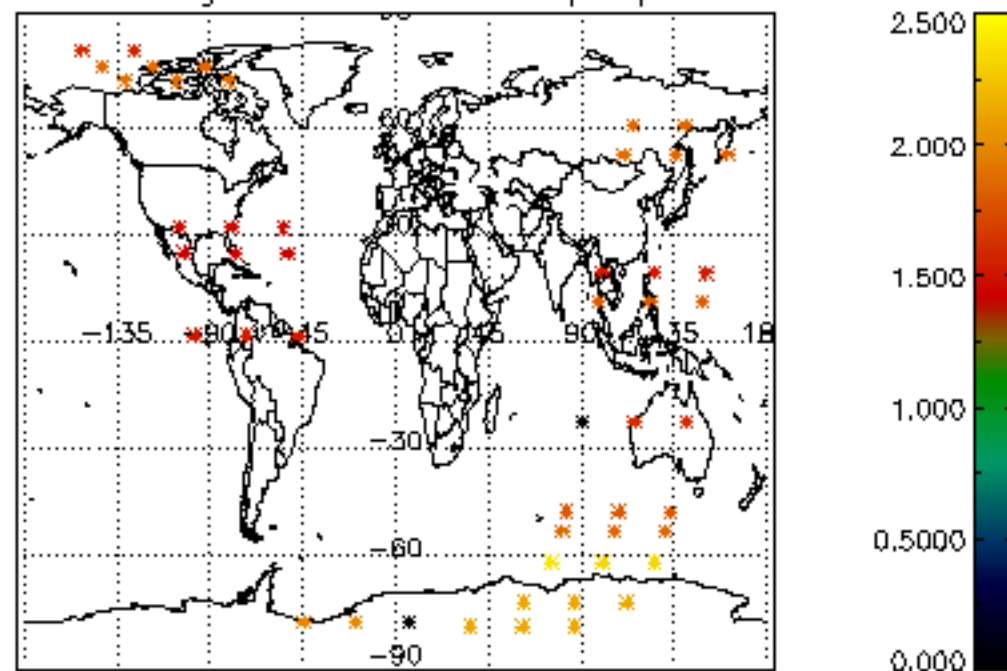




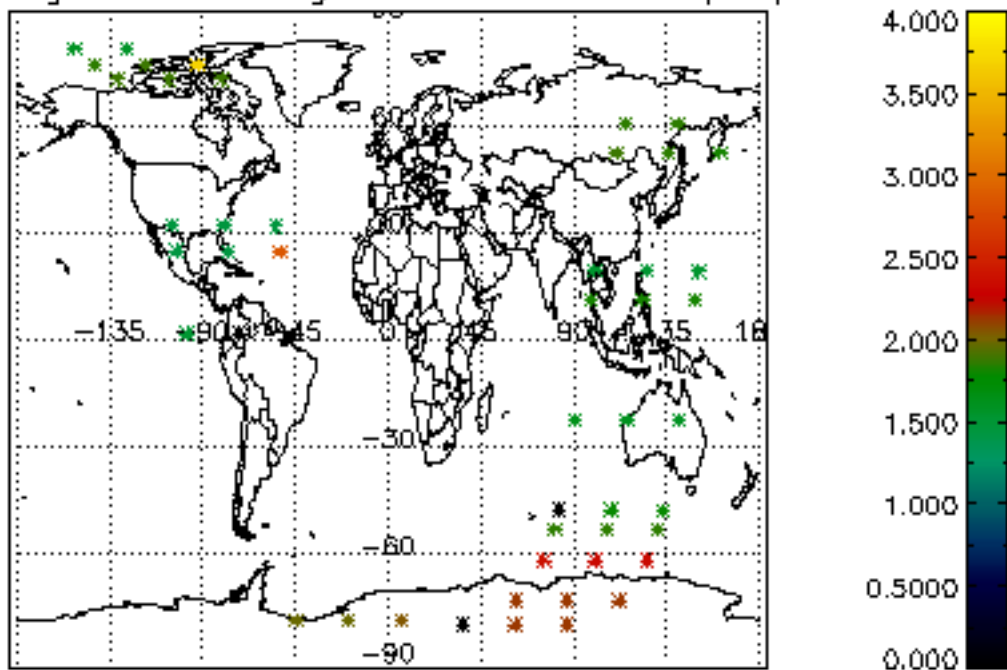
Percentage of cosmic ray hits per profile



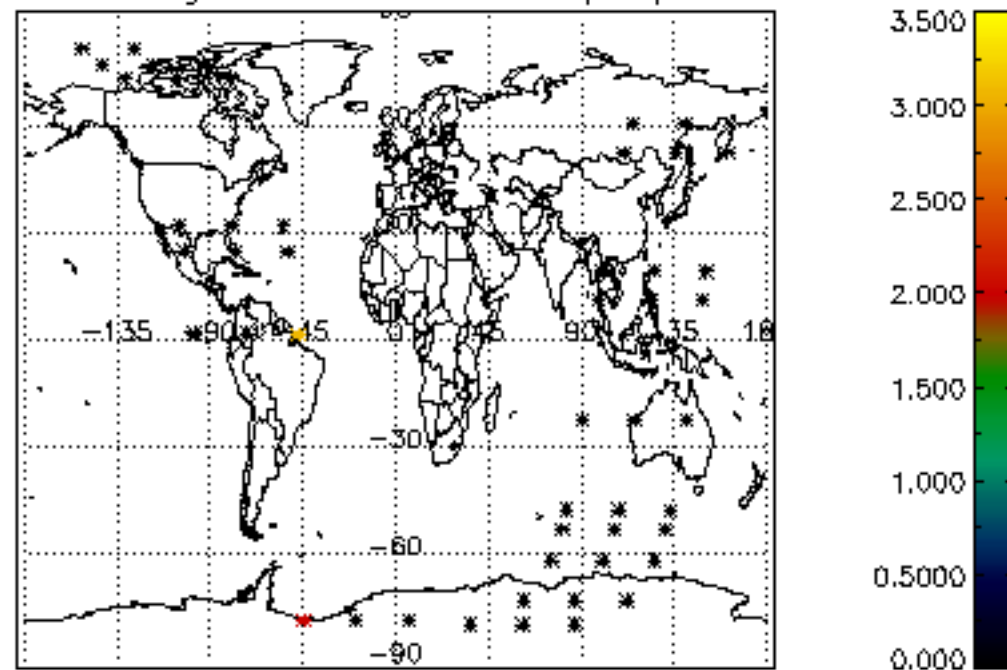
Percentage of datation errors per profile



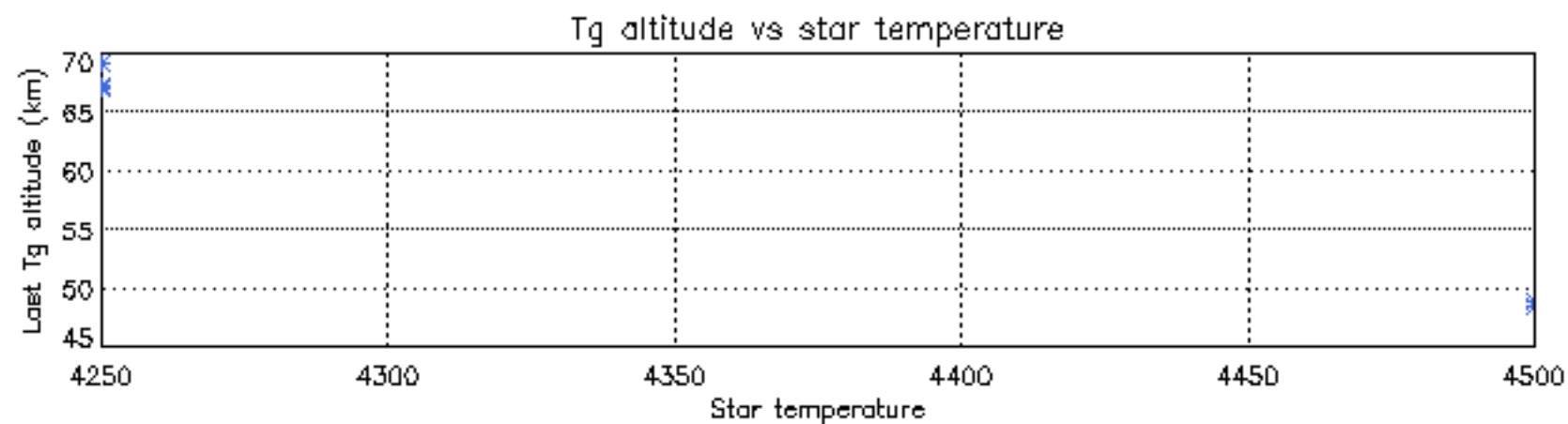
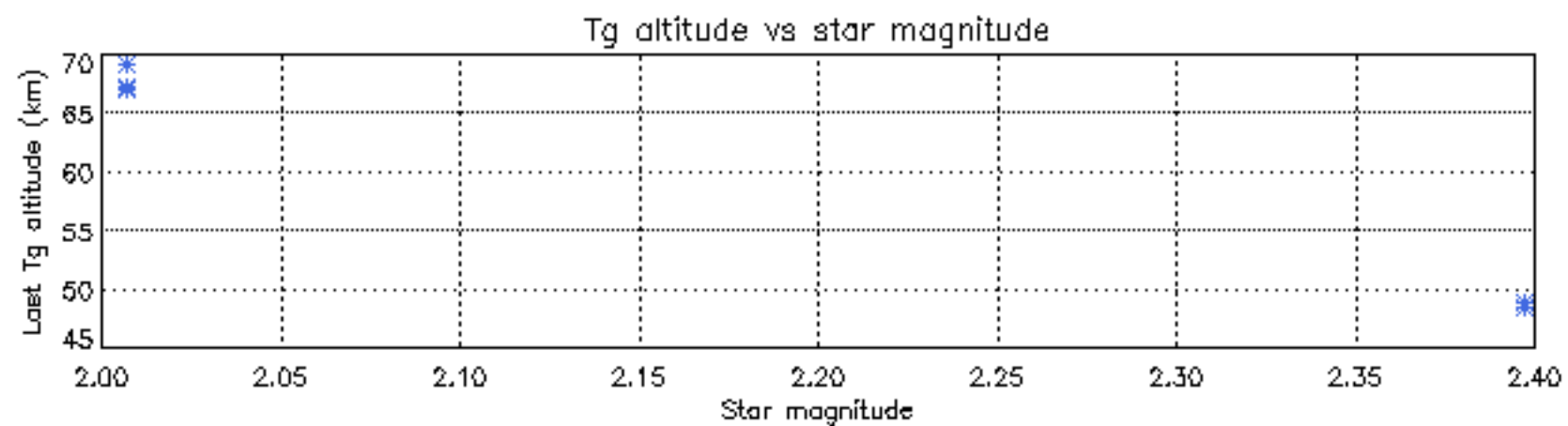
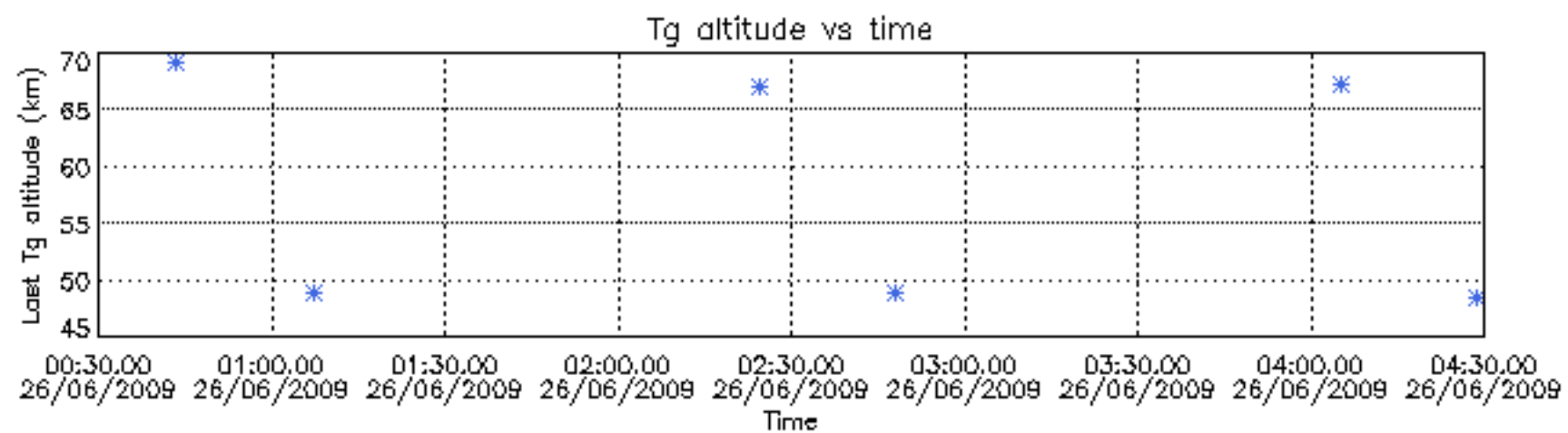
Percentage of star falling outside central band per profile



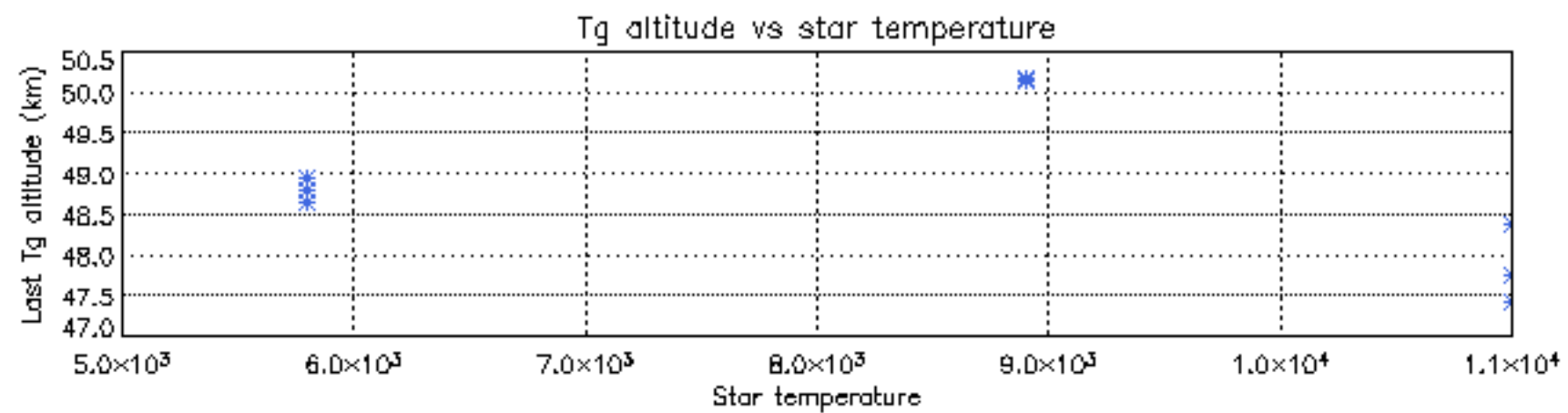
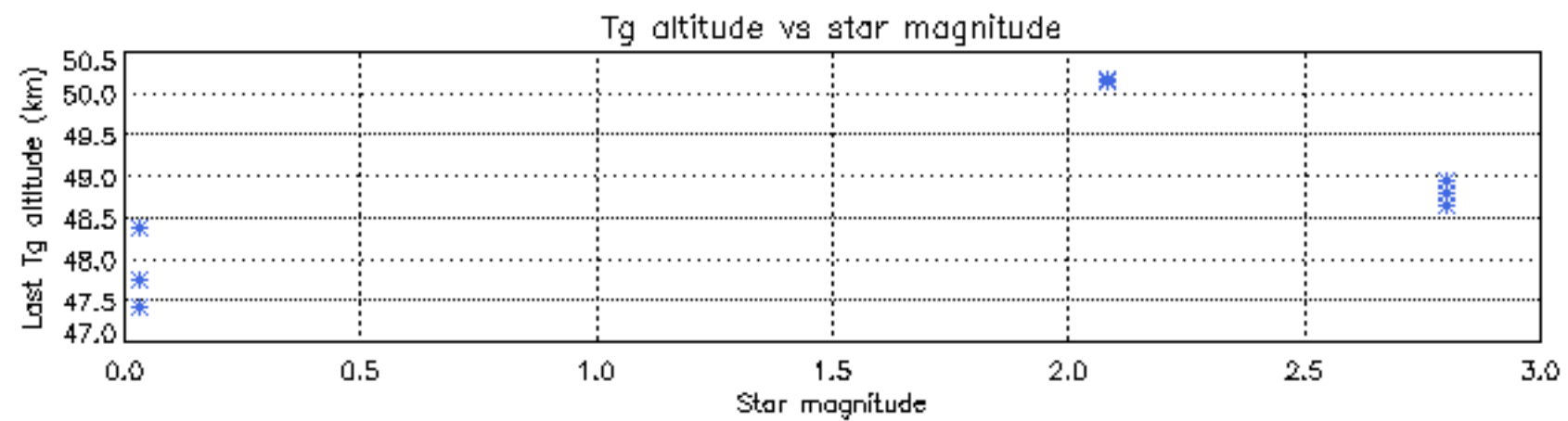
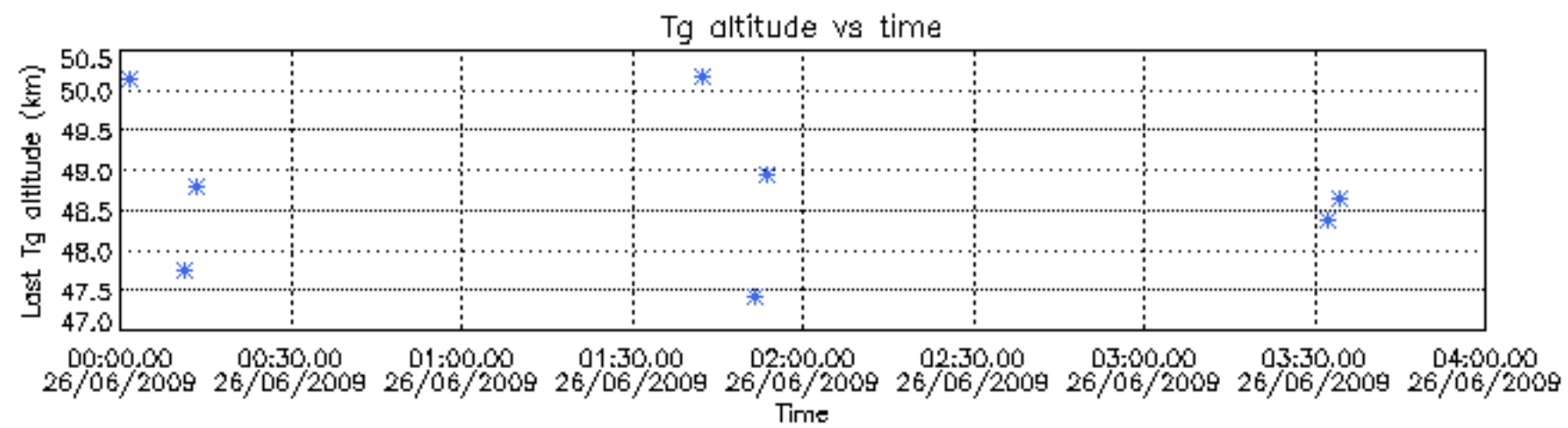
Percentage of saturation errors per profile

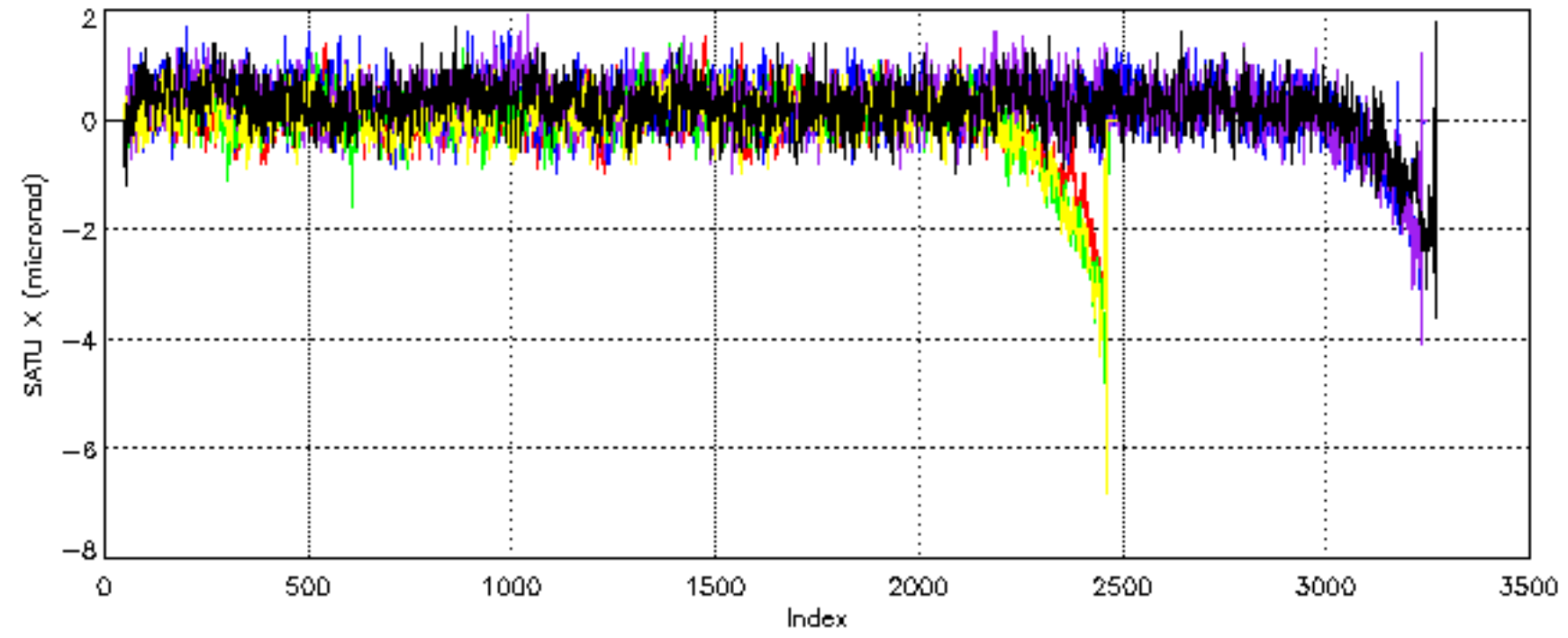


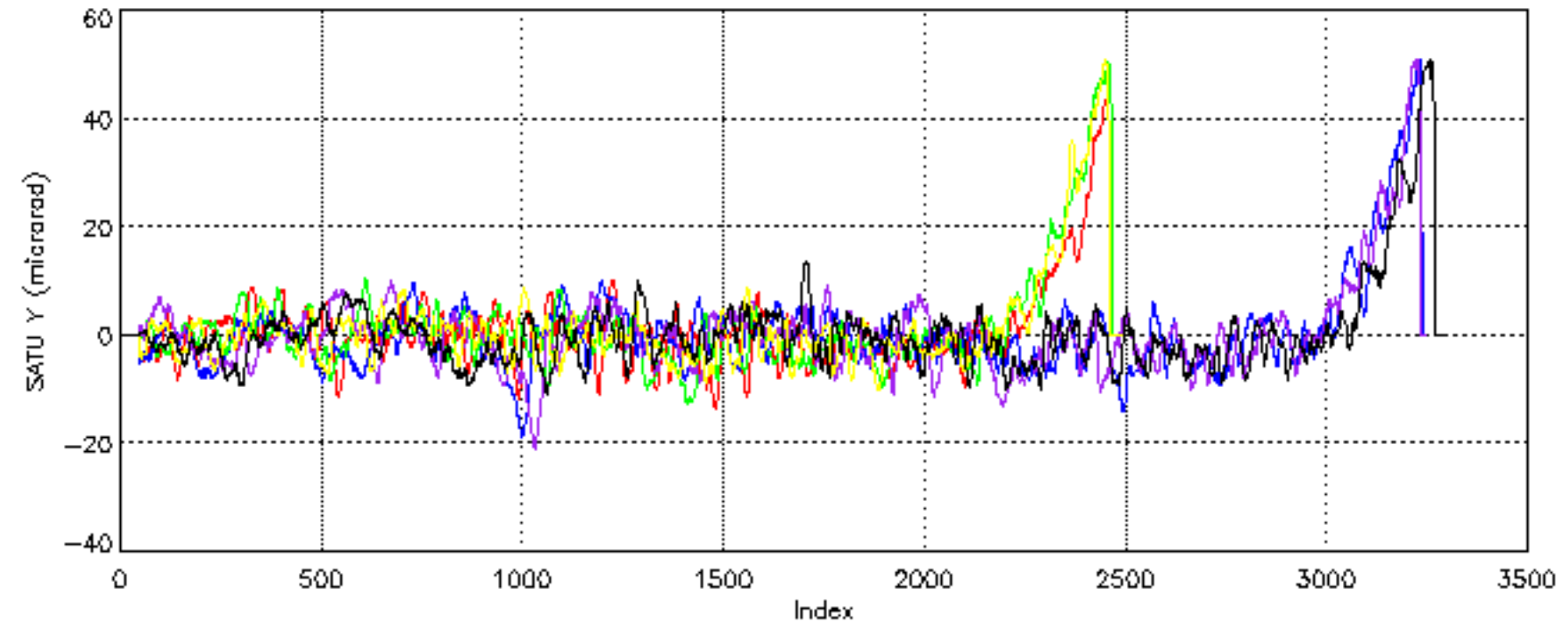
Tangent altitude at which the star is lost

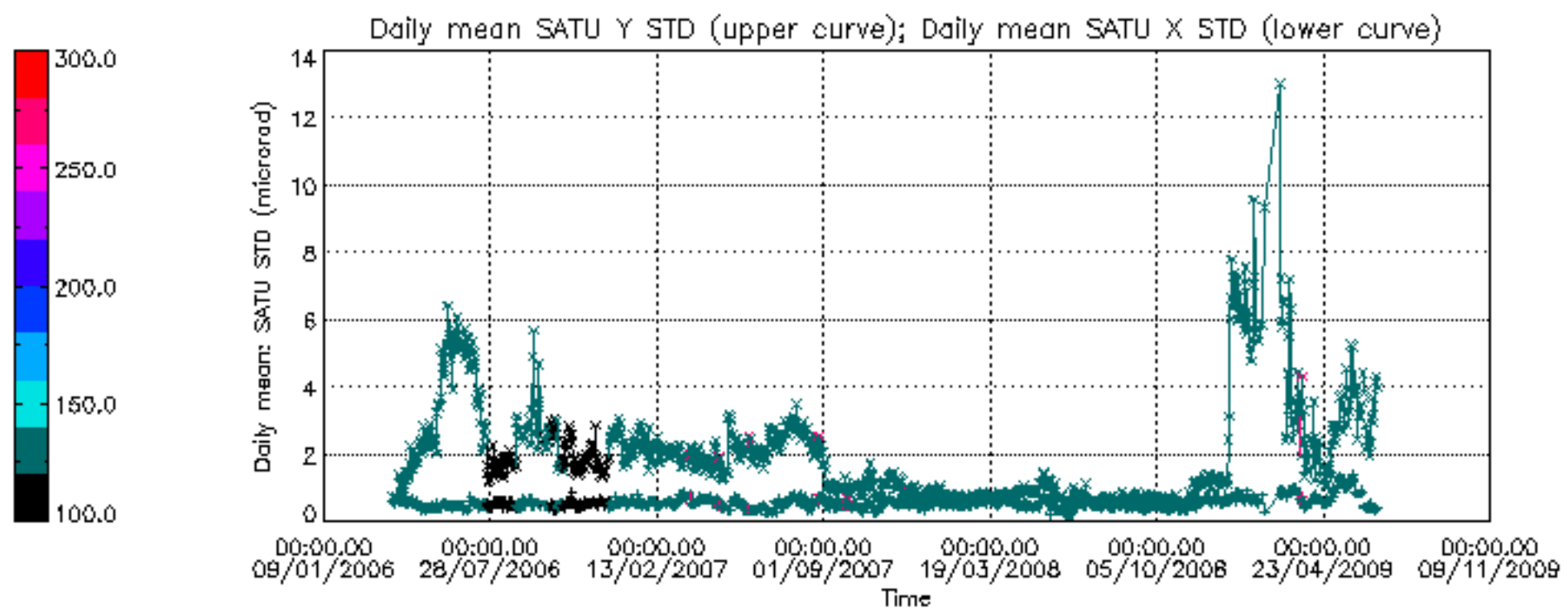


Tangent altitude at which the star is lost









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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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3; 2207.6; 07-JUN-2009 15:05:02; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;38012
4; 2489.2; 07-JUN-2009 15:09:43; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38012
5; 2921.6; 07-JUN-2009 15:16:56; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38012
6; 3570.2; 07-JUN-2009 15:27:44; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38012
7; 3912.7; 07-JUN-2009 15:33:27; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38012
8; 4402.7; 07-JUN-2009 15:41:37; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38012
9; 4576.7; 07-JUN-2009 15:44:31; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38012
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11; 5377.0; 07-JUN-2009 15:57:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38012
12; 6043.8; 07-JUN-2009 16:08:58; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38012
13; 6317.6; 07-JUN-2009 16:13:32; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;38012
14; 7191.9; 07-JUN-2009 16:28:06; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38012
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3; 286.4; 08-JUN-2009 00:36:36; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38018
4; 1158.1; 08-JUN-2009 00:51:08; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38018
5; 1277.4; 08-JUN-2009 00:53:07; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38018
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7; 2204.2; 08-JUN-2009 01:08:34; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;38018
8; 2486.9; 08-JUN-2009 01:13:17; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38018
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11; 3911.1; 08-JUN-2009 01:37:01; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38018
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4; 1158.6; 08-JUN-2009 02:31:44; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38019
5; 1277.9; 08-JUN-2009 02:33:43; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38019
6; 2042.9; 08-JUN-2009 02:46:28; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;38019
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8; 1159.3; 08-JUN-2009 04:12:21; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38020
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7; 4917.5; 08-JUN-2009 13:37:59; Dark ; 33.5; 140; 88Gam Peg ; 2.83; 26000;occ; 67; 0;38025
8; 5392.3; 08-JUN-2009 13:45:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38025
9; 6063.3; 08-JUN-2009 13:57:04; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38025
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5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
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3; 2023.3; 11-JUN-2009 19:37:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38072
4; 2179.3; 11-JUN-2009 19:40:29; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38072
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6; 3531.2; 11-JUN-2009 20:03:01; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38072
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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
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7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
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 3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
 4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
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 9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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6; 3501.5; 14-JUN-2009 21:48:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38116
7; 3882.6; 14-JUN-2009 21:55:14; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38116
8; 3964.3; 14-JUN-2009 21:56:35; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38116
9; 4410.2; 14-JUN-2009 22:04:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38116
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3; 261.2; 14-JUN-2009 22:35:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38117
4; 384.1; 14-JUN-2009 22:37:31; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38117
5; 494.6; 14-JUN-2009 22:39:21; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38117
6; 1230.4; 14-JUN-2009 22:51:37; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38117
7; 1319.5; 14-JUN-2009 22:53:06; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38117
8; 2010.3; 14-JUN-2009 23:04:37; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38117
9; 2162.4; 14-JUN-2009 23:07:09; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38117
10; 2872.8; 14-JUN-2009 23:19:00; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38117
11; 3500.8; 14-JUN-2009 23:29:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38117
12; 3882.1; 14-JUN-2009 23:35:49; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38117
13; 3964.1; 14-JUN-2009 23:37:11; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38117
14; 4410.4; 14-JUN-2009 23:44:37; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38117

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2; -1626.1; 14-JUN-2009 06:58:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38107
3; -604.6; 14-JUN-2009 07:15:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38107
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5; 252.0; 14-JUN-2009 07:29:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38108
6; 374.9; 14-JUN-2009 07:31:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38108
7; 482.6; 14-JUN-2009 07:33:46; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38108
8; 1197.3; 14-JUN-2009 07:45:41; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38108
9; 1288.1; 14-JUN-2009 07:47:12; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38108

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2; 2165.8; 14-JUN-2009 08:01:49; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38108
3; 2876.5; 14-JUN-2009 08:13:40; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38108
4; 3507.1; 14-JUN-2009 08:24:11; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38108
5; 3885.2; 14-JUN-2009 08:30:29; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38108
6; 4409.8; 14-JUN-2009 08:39:13; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38108
7; 5432.4; 14-JUN-2009 08:56:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38108
8; 5542.2; 14-JUN-2009 08:58:06; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38108
9; 6289.0; 14-JUN-2009 09:10:32; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38108
10; 6411.8; 14-JUN-2009 09:12:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38108
11; 6519.4; 14-JUN-2009 09:14:23; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38108
12; 7233.6; 14-JUN-2009 09:26:17; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38108
13; 7324.4; 14-JUN-2009 09:27:48; Dark ; 29.5; 116; 19Del Sgr ; 2.70; 4100;occ; 59; 0;38108

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2; 2165.2; 14-JUN-2009 09:42:25; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38109
3; 2876.2; 14-JUN-2009 09:54:16; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38109
4; 3506.5; 14-JUN-2009 10:04:46; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38109
5; 3884.9; 14-JUN-2009 10:11:04; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38109
6; 4409.9; 14-JUN-2009 10:19:49; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38109
7; 5433.4; 14-JUN-2009 10:36:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38109
8; 5542.9; 14-JUN-2009 10:38:42; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38109
9; 6289.9; 14-JUN-2009 10:51:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38109
10; 6412.8; 14-JUN-2009 10:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38109
11; 6520.9; 14-JUN-2009 10:55:00; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38109
12; 7235.2; 14-JUN-2009 11:06:55; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38109
13; 7324.7; 14-JUN-2009 11:08:24; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38109

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2; 2165.0; 14-JUN-2009 11:23:00; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38110
3; 2875.7; 14-JUN-2009 11:34:51; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38110
4; 3505.8; 14-JUN-2009 11:45:21; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38110
5; 3884.5; 14-JUN-2009 11:51:40; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38110
6; 4410.0; 14-JUN-2009 12:00:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38110
7; 5434.4; 14-JUN-2009 12:17:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38110
8; 5544.1; 14-JUN-2009 12:19:19; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38110
9; 6291.0; 14-JUN-2009 12:31:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38110
10; 6414.4; 14-JUN-2009 12:33:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38110
11; 6522.7; 14-JUN-2009 12:35:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38110
12; 7238.4; 14-JUN-2009 12:47:34; Dark ; 25.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 51; 0;38110
13; 7325.1; 14-JUN-2009 12:49:00; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38110

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2; 2164.7; 14-JUN-2009 13:03:36; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38111

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4; 3505.1; 14-JUN-2009 13:25:56; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38111
5; 3884.3; 14-JUN-2009 13:32:15; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38111
6; 4410.2; 14-JUN-2009 13:41:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38111
7; 5435.5; 14-JUN-2009 13:58:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38111
8; 5545.0; 14-JUN-2009 13:59:56; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38111
9; 6292.0; 14-JUN-2009 14:12:23; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38111
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11; 6523.4; 14-JUN-2009 14:16:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38111
12; 7263.8; 14-JUN-2009 14:28:35; Dark ; 34.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 68; 0;38111
13; 7353.6; 14-JUN-2009 14:30:05; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38111
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2; 2164.2; 14-JUN-2009 14:44:11; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38112
3; 2875.0; 14-JUN-2009 14:56:02; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38112
4; 3504.4; 14-JUN-2009 15:06:31; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38112
5; 3884.1; 14-JUN-2009 15:12:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38112
6; 4410.2; 14-JUN-2009 15:21:37; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38112
7; 5436.7; 14-JUN-2009 15:38:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38112
8; 5546.4; 14-JUN-2009 15:40:33; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38112
9; 6293.2; 14-JUN-2009 15:53:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38112
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11; 6525.4; 14-JUN-2009 15:56:52; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38112
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2; 1318.2; 14-JUN-2009 16:10:41; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38113
3; 2011.7; 14-JUN-2009 16:22:15; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38113
4; 2163.9; 14-JUN-2009 16:24:47; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38113
5; 2874.6; 14-JUN-2009 16:36:38; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38113
6; 3503.6; 14-JUN-2009 16:47:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38113
7; 3883.5; 14-JUN-2009 16:53:27; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38113
8; 4410.3; 14-JUN-2009 17:02:13; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38113
9; 5437.8; 14-JUN-2009 17:19:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38113
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11; 6294.4; 14-JUN-2009 17:33:37; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38113
12; 6417.3; 14-JUN-2009 17:35:40; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38113
13; 6527.4; 14-JUN-2009 17:37:30; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38113
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3; 2011.2; 14-JUN-2009 18:02:50; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38114
4; 2163.5; 14-JUN-2009 18:05:23; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38114
5; 2874.0; 14-JUN-2009 18:17:13; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38114
6; 3503.3; 14-JUN-2009 18:27:42; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38114
7; 3883.2; 14-JUN-2009 18:34:02; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38114
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3; 2011.1; 14-JUN-2009 19:43:26; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38115
4; 2163.1; 14-JUN-2009 19:45:58; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38115
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6; 3502.1; 14-JUN-2009 20:08:17; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38115
7; 3882.9; 14-JUN-2009 20:14:38; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38115
8; 4410.4; 14-JUN-2009 20:23:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38115
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11; 6296.1; 14-JUN-2009 20:54:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38115
12; 6419.5; 14-JUN-2009 20:56:55; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38115
13; 6529.7; 14-JUN-2009 20:58:45; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38115
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6; 1230.9; 15-JUN-2009 00:32:14; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38118
7; 1320.1; 15-JUN-2009 00:33:43; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38118
8; 2010.4; 15-JUN-2009 00:45:13; Bright; 31.5; 126; 60Bet Oph ; 2.77; 4250;occ; 63; 0;38118
9; 2162.0; 15-JUN-2009 00:47:45; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38118
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13; 3963.9; 15-JUN-2009 01:17:47; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38118
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3; 263.2; 15-JUN-2009 01:56:42; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38119
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5; 497.6; 15-JUN-2009 02:00:36; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38119
6; 1231.3; 15-JUN-2009 02:12:50; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38119
7; 1320.5; 15-JUN-2009 02:14:19; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38119
8; 2010.1; 15-JUN-2009 02:25:49; Bright; 31.5; 126; 60Bet Oph ; 2.77; 4250;occ; 63; 0;38119
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 4; 2893.8; 16-JUN-2009 08:51:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38137
 5; 3487.6; 16-JUN-2009 09:01:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38137
 6; 3875.5; 16-JUN-2009 09:07:41; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38137
 7; 3959.3; 16-JUN-2009 09:09:05; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38137
 8; 4412.0; 16-JUN-2009 09:16:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38137
 9; 5002.2; 16-JUN-2009 09:26:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38137
 10; 5572.2; 16-JUN-2009 09:35:58; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;38137
 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137
 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138
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 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140
 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140
7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140
8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140
9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140
10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140
11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140
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3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141
4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141
7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141
8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141
9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141
10; 3958.3; 16-JUN-2009 15:51:27; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38141
11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141
12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141
13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141
14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141
15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141
16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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2; 1329.0; 16-JUN-2009 16:48:14; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38142
3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142
4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142
5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142
6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142
7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142
8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142
9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142
10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142
11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142
12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142
13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142
14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142
15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142
16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143
4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143
6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143
7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143
8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143
9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143
10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143
11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143
12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143
13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143
14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143
15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143
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4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
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5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
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15; 2784.2; 17-JUN-2009 04:56:41; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38149
16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
17; 3479.4; 17-JUN-2009 05:08:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38149
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3; -1623.5; 17-JUN-2009 05:23:49; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38149
4; -1348.6; 17-JUN-2009 05:28:24; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38149
5; -557.3; 17-JUN-2009 05:41:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38149
6; -451.3; 17-JUN-2009 05:43:21; Dark ; 35.0; 52; 16Bet Cet ; 2.04; 4500;occ; 70; 0;38149
7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
8; 416.5; 17-JUN-2009 05:57:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38150
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
10; 1245.2; 17-JUN-2009 06:11:38; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38150
11; 1331.8; 17-JUN-2009 06:13:04; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38150
12; 1437.6; 17-JUN-2009 06:14:50; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38150
13; 2003.0; 17-JUN-2009 06:24:16; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38150
14; 2152.3; 17-JUN-2009 06:26:45; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38150
15; 2783.2; 17-JUN-2009 06:37:16; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38150
16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
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3; 1439.7; 17-JUN-2009 21:20:16; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38159
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5; 2150.0; 17-JUN-2009 21:32:06; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38159
6; 2775.4; 17-JUN-2009 21:42:31; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38159
7; 2883.0; 17-JUN-2009 21:44:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38159

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3; 303.1; 17-JUN-2009 22:41:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38160
4; 426.4; 17-JUN-2009 22:43:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38160
5; 551.8; 17-JUN-2009 22:46:04; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38160
6; 1249.2; 17-JUN-2009 22:57:41; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38160
7; 1335.0; 17-JUN-2009 22:59:07; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38160
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11; 2774.5; 17-JUN-2009 23:23:06; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38160
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16; 4413.1; 17-JUN-2009 23:50:25; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38160
17; 4690.4; 17-JUN-2009 23:55:02; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38160
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8; 417.8; 17-JUN-2009 07:38:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
9; 540.0; 17-JUN-2009 07:40:29; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38151
10; 1245.5; 17-JUN-2009 07:52:14; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38151
11; 1331.9; 17-JUN-2009 07:53:40; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38151
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3; 2782.3; 17-JUN-2009 08:17:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38151
4; 2886.8; 17-JUN-2009 08:19:35; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38151
5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
6; 3870.7; 17-JUN-2009 08:35:59; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38151
7; 3955.5; 17-JUN-2009 08:37:24; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38151
8; 4412.6; 17-JUN-2009 08:45:01; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38151
9; 4688.0; 17-JUN-2009 08:49:36; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38151
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13; 6454.4; 17-JUN-2009 09:19:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
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16; 7368.6; 17-JUN-2009 09:34:17; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38151
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5; 3477.1; 17-JUN-2009 10:10:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38152
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13; 6455.7; 17-JUN-2009 10:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38152

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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174
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4; 2873.6; 19-JUN-2009 08:56:44; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38180
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6; 3860.0; 19-JUN-2009 09:13:10; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38180
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 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
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