

GOMOS Daily Report 27-OCT-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

| Item | Value |
|---------------------------|---|
| Time of report generation | 29OCT2007 05:46:09 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (27OCT2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (28OCT2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 1 |

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

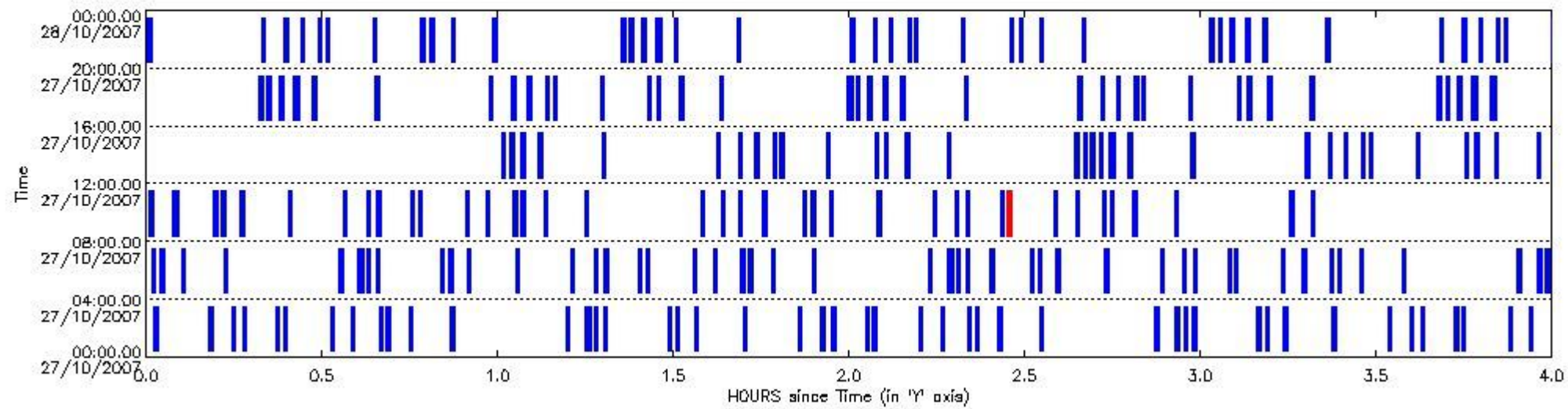
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

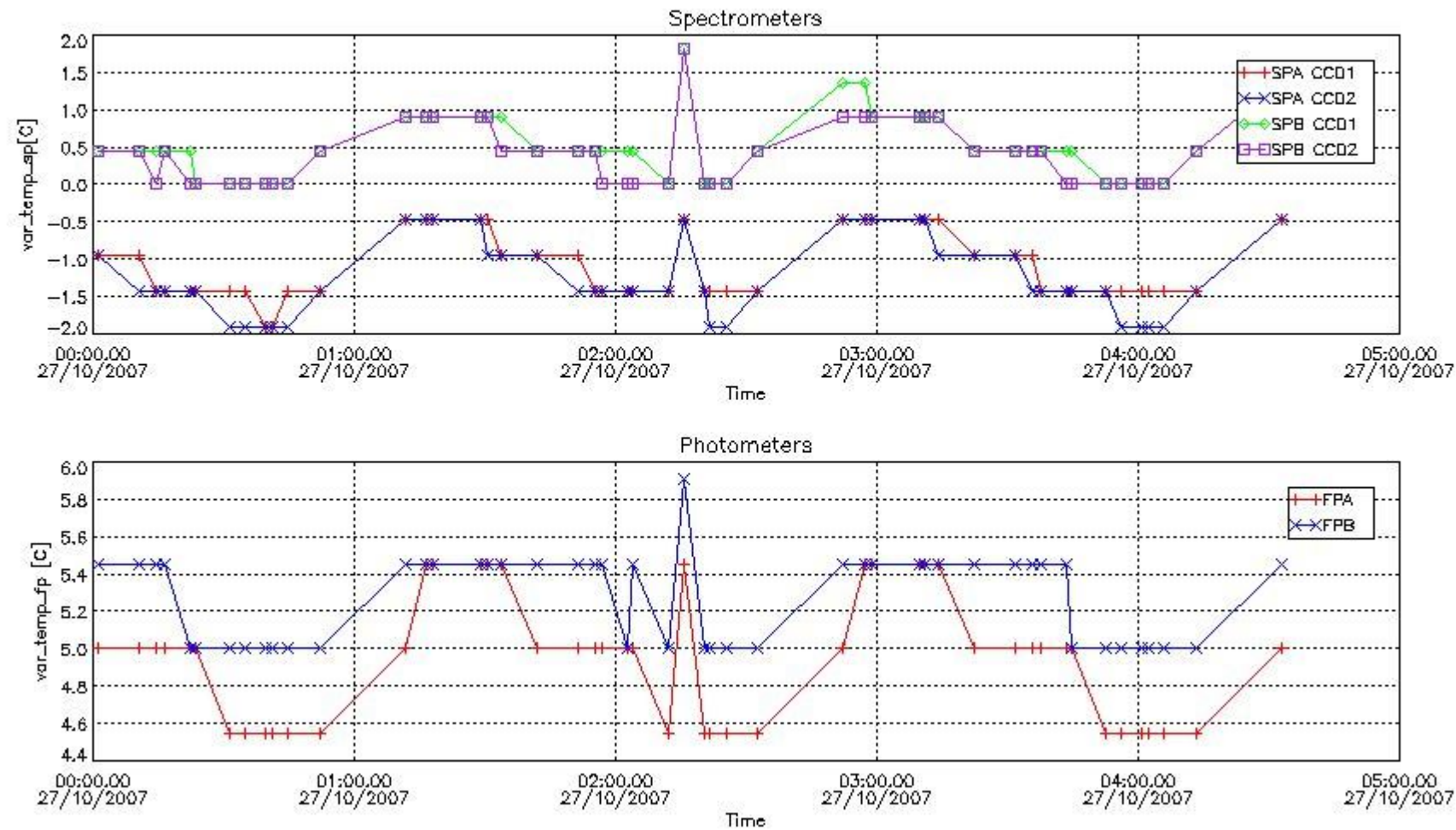
| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 27-OCT-2007 10:26:59 | 27GamCas | 76 | 29578 |

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_1PNPDE20071027_000114_000000432062_00460_29572_1181.N1 | 27-OCT-2007 00:01:14 | Straylight | 42.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 85 | 29572 | No |
| 2 | GOM_TRA_1PNPDE20071027_001043_000000352062_00460_29572_1182.N1 | 27-OCT-2007 00:10:43 | Bright | 35.000 | 140 | 88Gam Peg | 2.8340 | 26000. | 70 | 29572 | No |
| 3 | GOM_TRA_1PNPDE20071027_001435_000000362062_00460_29572_1183.N1 | 27-OCT-2007 00:14:35 | Bright | 36.000 | 58 | 21Alp And | 2.0730 | 11000. | 72 | 29572 | No |
| 4 | GOM_TRA_1PNPDE20071027_001624_000000402062_00460_29572_1184.N1 | 27-OCT-2007 00:16:24 | Bright | 39.500 | 53 | 43Bet And | 2.0480 | 3300.0 | 79 | 29572 | No |
| 5 | GOM_TRA_1PNPDE20071027_002212_000000342062_00460_29572_1185.N1 | 27-OCT-2007 00:22:12 | Bright | 34.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 68 | 29572 | No |
| 6 | GOM_TRA_1PNPDE20071027_002327_000000362062_00460_29572_1186.N1 | 27-OCT-2007 00:23:27 | Bright | 35.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 71 | 29572 | No |
| 7 | GOM_TRA_1PNPDE20071027_003128_000000342062_00460_29572_1187.N1 | 27-OCT-2007 00:31:28 | Bright | 34.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 68 | 29572 | No |
| 8 | GOM_TRA_1PNPDE20071027_003502_000000372062_00460_29572_1188.N1 | 27-OCT-2007 00:35:02 | Bright | 37.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 74 | 29572 | No |
| 9 | GOM_TRA_1PNPDE20071027_003941_000000382062_00460_29572_1189.N1 | 27-OCT-2007 00:39:41 | Bright | 38.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 76 | 29572 | No |
| 10 | GOM_TRA_1PNPDE20071027_004100_000000342062_00460_29572_1190.N1 | 27-OCT-2007 00:41:00 | Bright | 33.500 | 32 | 77Eps UMa | 1.7630 | 11000. | 67 | 29572 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|-----|
| 11 | GOM_TRA_1PNPDE20071027_004451_000000372062_00460_29572_1191.N1 | 27-OCT-2007 00:44:51 | Bright | 36.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 73 | 29572 | No |
| 12 | GOM_TRA_1PNPDE20071027_005157_000000362062_00460_29572_1192.N1 | 27-OCT-2007 00:51:57 | Bright | 35.500 | 96 | 68Del Leo | 2.5600 | 9300.0 | 71 | 29572 | No |
| 13 | GOM_TRA_1PNPDE20071027_011138_000000402062_00460_29572_1321.N1 | 27-OCT-2007 01:11:38 | Dark | 40.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 80 | 29572 | No |
| 14 | GOM_TRA_1PNPDE20071027_011630_000000372062_00461_29573_1322.N1 | 27-OCT-2007 01:16:30 | Dark | 36.500 | 159 | Ups Car | 2.9200 | 7200.0 | 73 | 29573 | No |
| 15 | GOM_TRA_1PNPDE20071027_011804_000000382062_00461_29573_1323.N1 | 27-OCT-2007 01:18:04 | Dark | 38.000 | 29 | Bet Car | 1.6720 | 10200. | 76 | 29573 | No |
| 16 | GOM_TRA_1PNPDE20071027_012903_000000372062_00461_29573_1324.N1 | 27-OCT-2007 01:29:03 | Dark | 36.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 73 | 29573 | No |
| 17 | GOM_TRA_1PNPDE20071027_013027_000000392062_00461_29573_1325.N1 | 27-OCT-2007 01:30:27 | Dark | 38.500 | 9 | Alp Eri | 0.45300 | 24000. | 77 | 29573 | No |
| 18 | GOM_TRA_1PNPDE20071027_013332_000000402062_00461_29573_1326.N1 | 27-OCT-2007 01:33:32 | Straylight | 40.000 | 157 | The1Eri | 2.9060 | 9300.0 | 80 | 29573 | No |
| 19 | GOM_TRA_1PNPDE20071027_014150_000000462062_00461_29573_1327.N1 | 27-OCT-2007 01:41:50 | Straylight | 45.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 91 | 29573 | No |
| 20 | GOM_TRA_1PNPDE20071027_015119_000000362062_00461_29573_1328.N1 | 27-OCT-2007 01:51:19 | Bright | 35.500 | 140 | 88Gam Peg | 2.8340 | 26000. | 71 | 29573 | No |
| 21 | GOM_TRA_1PNPDE20071027_015512_000000372062_00461_29573_1329.N1 | 27-OCT-2007 01:55:12 | Bright | 36.500 | 58 | 21Alp And | 2.0730 | 11000. | 73 | 29573 | No |
| 22 | GOM_TRA_1PNPDE20071027_015700_000000402062_00461_29573_1330.N1 | 27-OCT-2007 01:57:00 | Bright | 39.500 | 53 | 43Bet And | 2.0480 | 3300.0 | 79 | 29573 | No |
| 23 | GOM_TRA_1PNPDE20071027_020248_000000372062_00461_29573_1331.N1 | 27-OCT-2007 02:02:48 | Bright | 36.500 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 73 | 29573 | No |
| 24 | GOM_TRA_1PNPDE20071027_020403_000000372062_00461_29573_1332.N1 | 27-OCT-2007 02:04:03 | Bright | 37.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 74 | 29573 | No |
| 25 | GOM_TRA_1PNPDE20071027_021203_000000332062_00461_29573_1333.N1 | 27-OCT-2007 02:12:03 | Bright | 33.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 66 | 29573 | No |
| 26 | GOM_TRA_1PNPDE20071027_021538_000000362062_00461_29573_1472.N1 | 27-OCT-2007 02:15:38 | Bright | 36.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 72 | 29573 | Yes |
| 27 | GOM_TRA_1PNPDE20071027_022016_000000382062_00461_29573_1473.N1 | 27-OCT-2007 02:20:16 | Bright | 37.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 75 | 29573 | No |
| 28 | GOM_TRA_1PNPDE20071027_022136_000000362062_00461_29573_1474.N1 | 27-OCT-2007 02:21:36 | Bright | 35.500 | 32 | 77Eps UMa | 1.7630 | 11000. | 71 | 29573 | No |
| 29 | GOM_TRA_1PNPDE20071027_022527_000000352062_00461_29573_1475.N1 | 27-OCT-2007 02:25:27 | Bright | 35.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 70 | 29573 | No |
| 30 | GOM_TRA_1PNPDE20071027_023234_000000362062_00461_29573_1476.N1 | 27-OCT-2007 02:32:34 | Bright | 36.000 | 96 | 68Del Leo | 2.5600 | 9300.0 | 72 | 29573 | No |
| 31 | GOM_TRA_1PNPDE20071027_025214_000000382062_00461_29573_1477.N1 | 27-OCT-2007 02:52:14 | Dark | 37.500 | 113 | Mu Vel | 2.6920 | 5000.0 | 75 | 29573 | No |
| 32 | GOM_TRA_1PNPDE20071027_025706_000000362062_00462_29574_1478.N1 | 27-OCT-2007 02:57:06 | Dark | 36.000 | 159 | Ups Car | 2.9200 | 7200.0 | 72 | 29574 | No |
| 33 | GOM_TRA_1PNPDE20071027_025840_000000382062_00462_29574_1479.N1 | 27-OCT-2007 02:58:40 | Dark | 38.000 | 29 | Bet Car | 1.6720 | 10200. | 76 | 29574 | No |
| 34 | GOM_TRA_1PNPDE20071027_030939_000000372062_00462_29574_1480.N1 | 27-OCT-2007 03:09:39 | Dark | 36.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 73 | 29574 | No |
| 35 | GOM_TRA_1PNPDE20071027_031103_000000412062_00462_29574_1481.N1 | 27-OCT-2007 03:11:03 | Dark | 41.000 | 9 | Alp Eri | 0.45300 | 24000. | 82 | 29574 | No |
| 36 | GOM_TRA_1PNPDE20071027_031409_000000402062_00462_29574_1482.N1 | 27-OCT-2007 03:14:09 | Straylight | 40.000 | 157 | The1Eri | 2.9060 | 9300.0 | 80 | 29574 | No |
| 37 | GOM_TRA_1PNPDE20071027_032226_000000442062_00462_29574_1483.N1 | 27-OCT-2007 03:22:26 | Straylight | 43.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 87 | 29574 | No |
| 38 | GOM_TRA_1PNPDE20071027_033155_000000372062_00462_29574_1484.N1 | 27-OCT-2007 03:31:55 | Bright | 36.500 | 140 | 88Gam Peg | 2.8340 | 26000. | 73 | 29574 | No |
| 39 | GOM_TRA_1PNPDE20071027_033548_000000362062_00462_29574_1485.N1 | 27-OCT-2007 03:35:48 | Bright | 35.500 | 58 | 21Alp And | 2.0730 | 11000. | 71 | 29574 | No |
| 40 | GOM_TRA_1PNPDE20071027_033736_000000382062_00462_29574_1486.N1 | 27-OCT-2007 03:37:36 | Bright | 37.500 | 53 | 43Bet And | 2.0480 | 3300.0 | 75 | 29574 | No |
| 41 | GOM_TRA_1PNPDE20071027_034324_000000382062_00462_29574_1487.N1 | 27-OCT-2007 03:43:24 | Bright | 37.500 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 75 | 29574 | No |
| 42 | GOM_TRA_1PNPDE20071027_034439_000000362062_00462_29574_1488.N1 | 27-OCT-2007 03:44:39 | Bright | 36.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 72 | 29574 | No |
| 43 | GOM_TRA_1PNPDE20071027_035239_000000362062_00462_29574_1489.N1 | 27-OCT-2007 03:52:39 | Bright | 35.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 71 | 29574 | No |
| 44 | GOM_TRA_1PNPDE20071027_035614_000000332062_00462_29574_1490.N1 | 27-OCT-2007 03:56:14 | Bright | 33.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 66 | 29574 | No |
| 45 | GOM_TRA_1PNPDE20071027_040052_000000392062_00462_29574_1633.N1 | 27-OCT-2007 04:00:52 | Bright | 38.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 77 | 29574 | No |
| 46 | GOM_TRA_1PNPDE20071027_040212_000000522062_00462_29574_1634.N1 | 27-OCT-2007 04:02:12 | Bright | 52.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 104 | 29574 | No |
| 47 | GOM_TRA_1PNPDE20071027_040603_000000402062_00462_29574_1635.N1 | 27-OCT-2007 04:06:03 | Bright | 39.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 79 | 29574 | No |
| 48 | GOM_TRA_1PNPDE20071027_041310_000000352062_00462_29574_1636.N1 | 27-OCT-2007 04:13:10 | Bright | 35.000 | 96 | 68Del Leo | 2.5600 | 9300.0 | 70 | 29574 | No |
| 49 | GOM_TRA_1PNPDE20071027_043251_000000412062_00462_29574_1637.N1 | 27-OCT-2007 04:32:51 | Dark | 41.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 82 | 29574 | No |

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



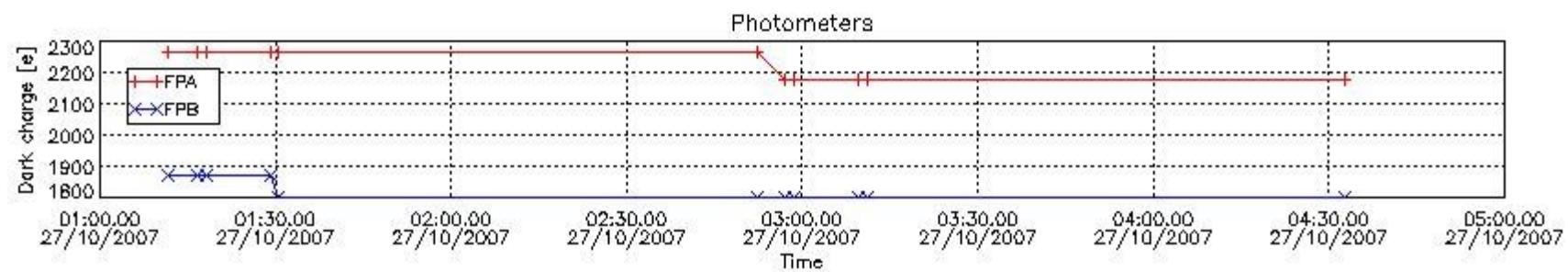
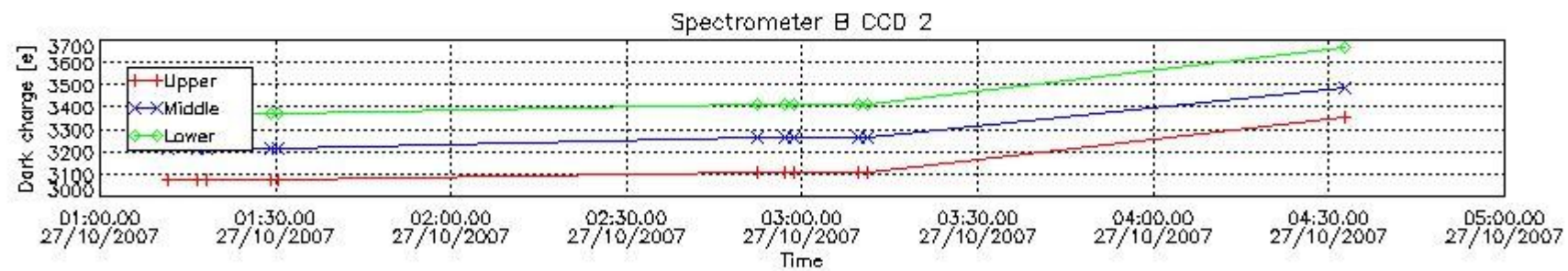
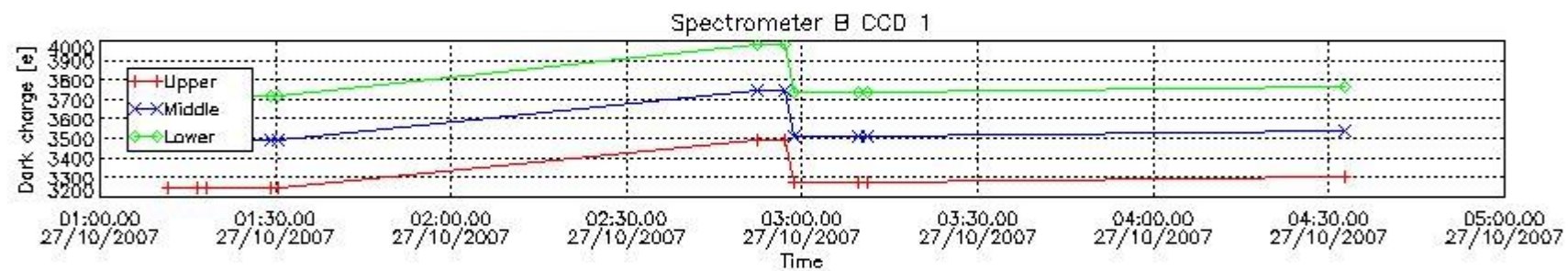
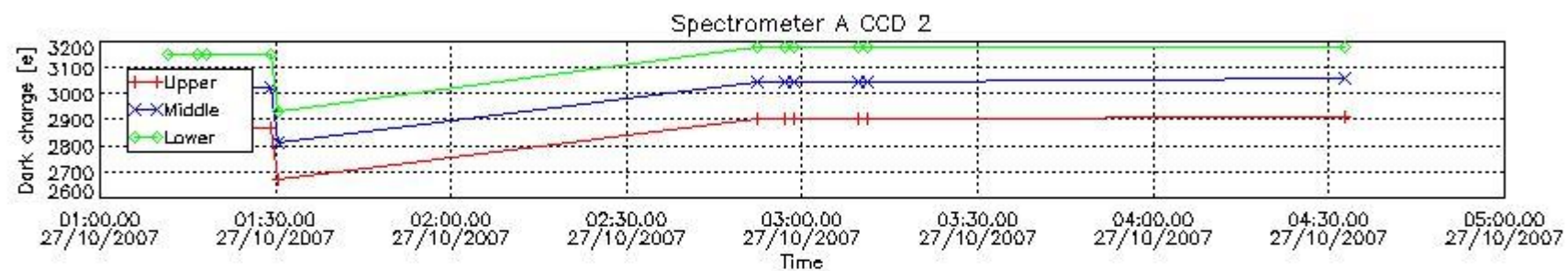
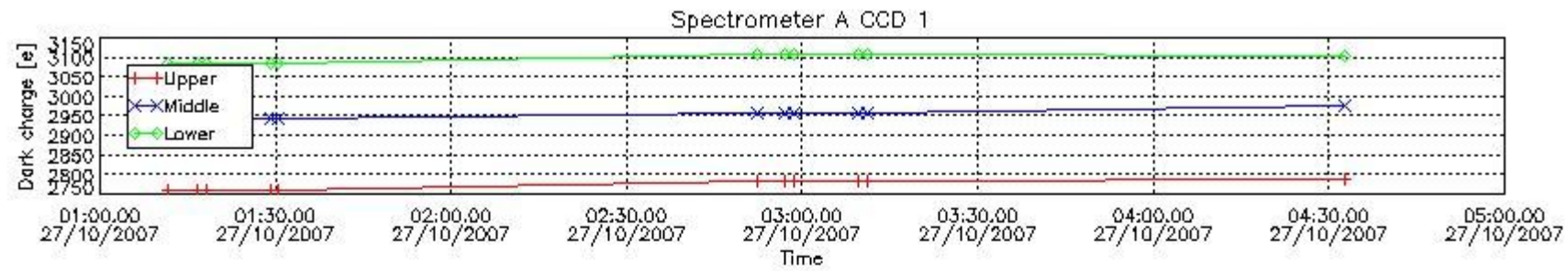
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



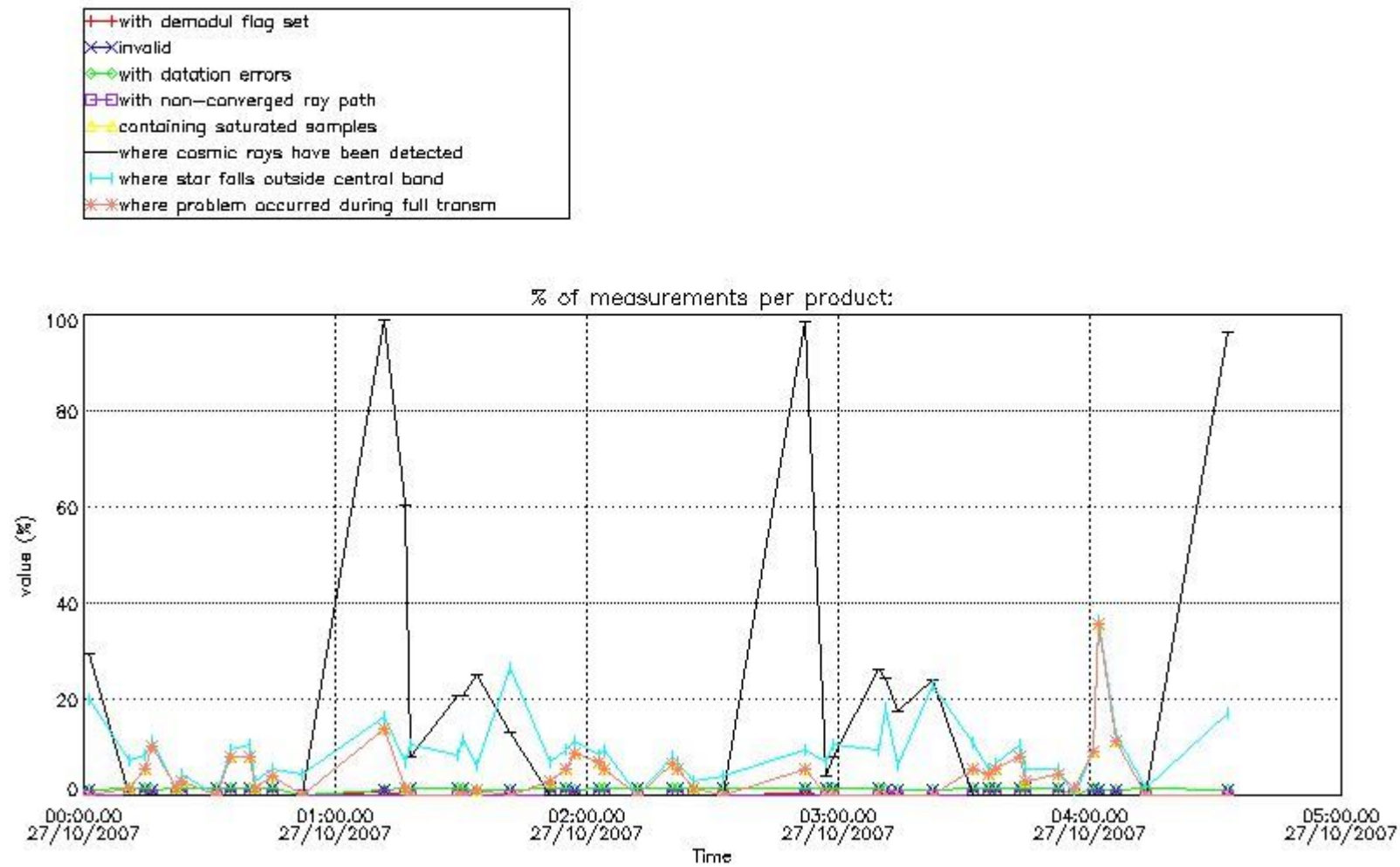
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

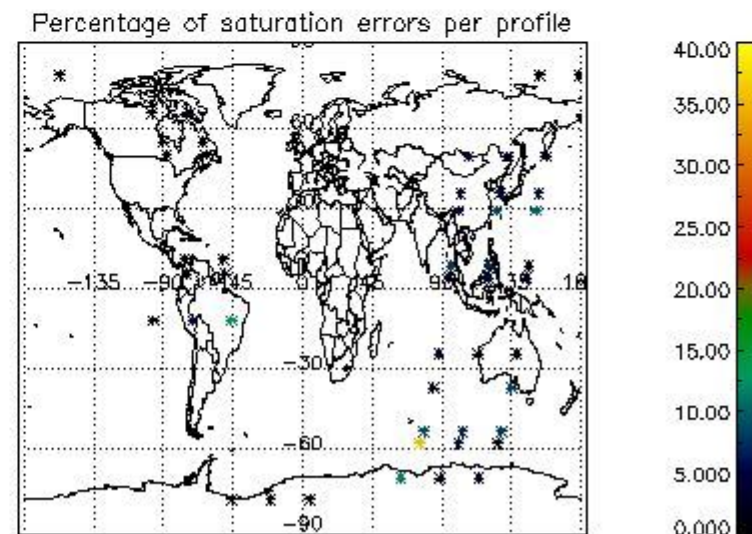
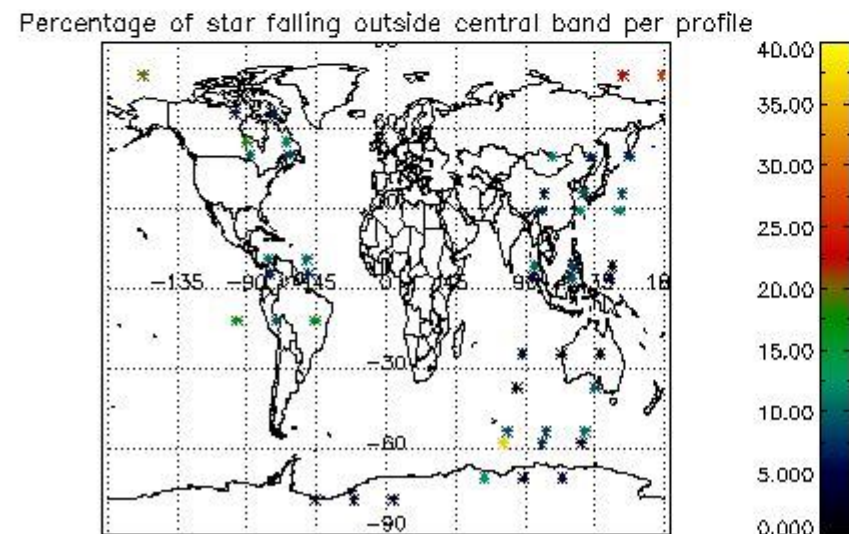
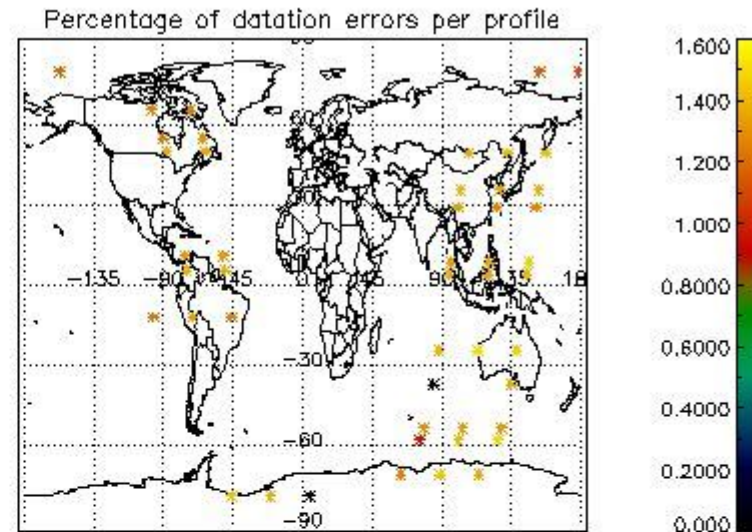
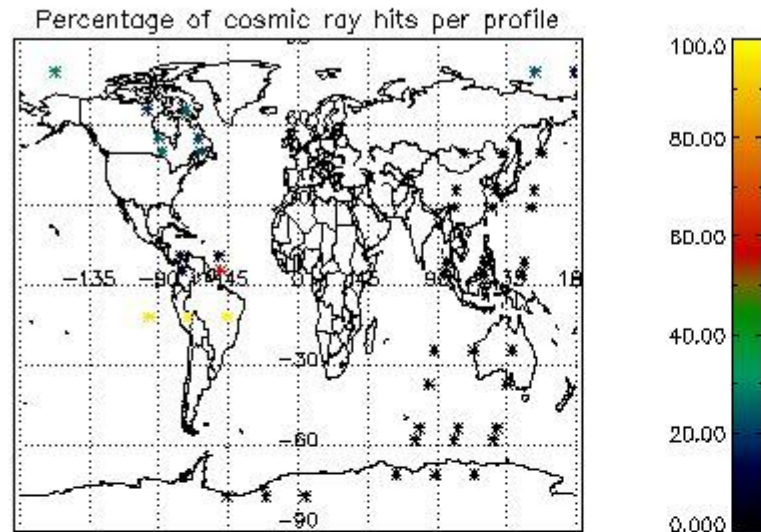
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



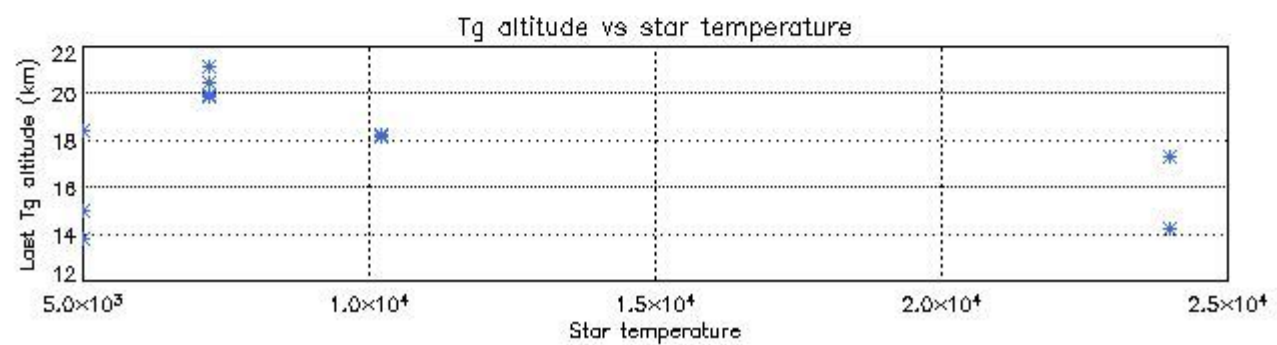
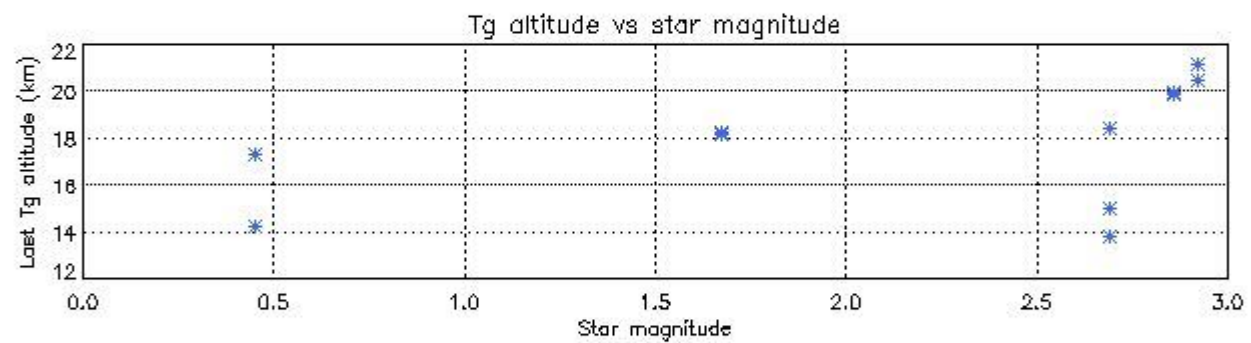
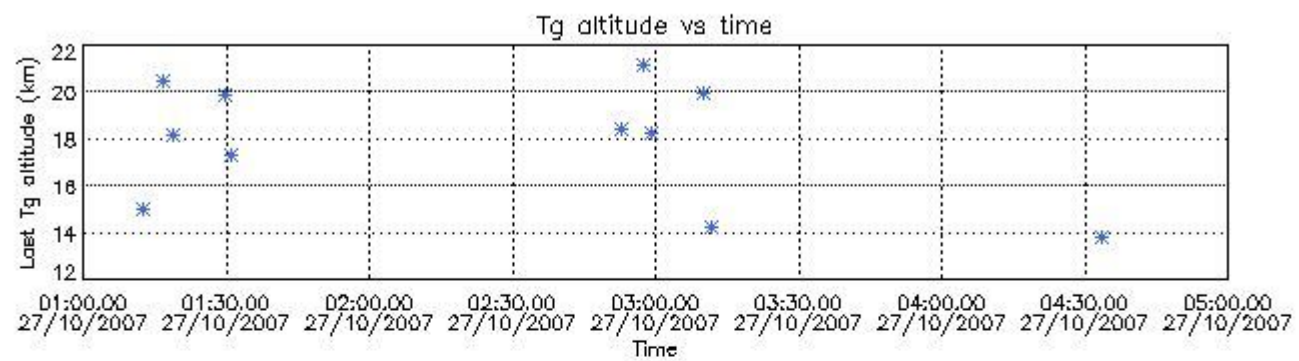
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 17.881 | 20.757 | NaN |
| St. deviation: | 2.5554 | 4.3124 | NaN |
| Maximum: | 21.181 | 27.189 | NaN |
| Minimum: | 13.763 | 3.6033 | NaN |
| Number of data: | 11.000 | 32.000 | NaN |

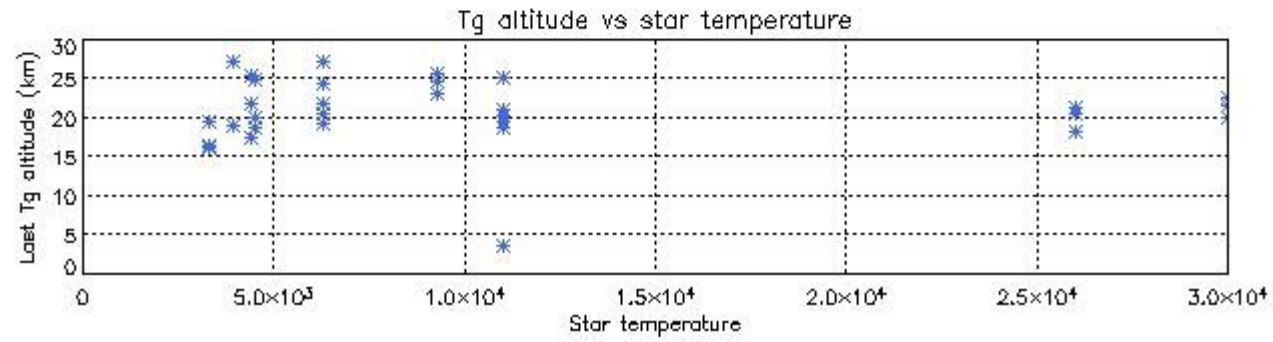
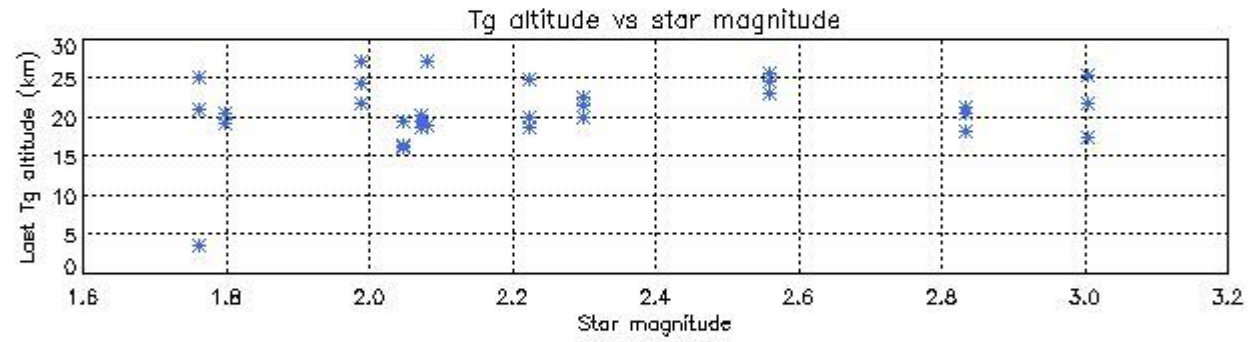
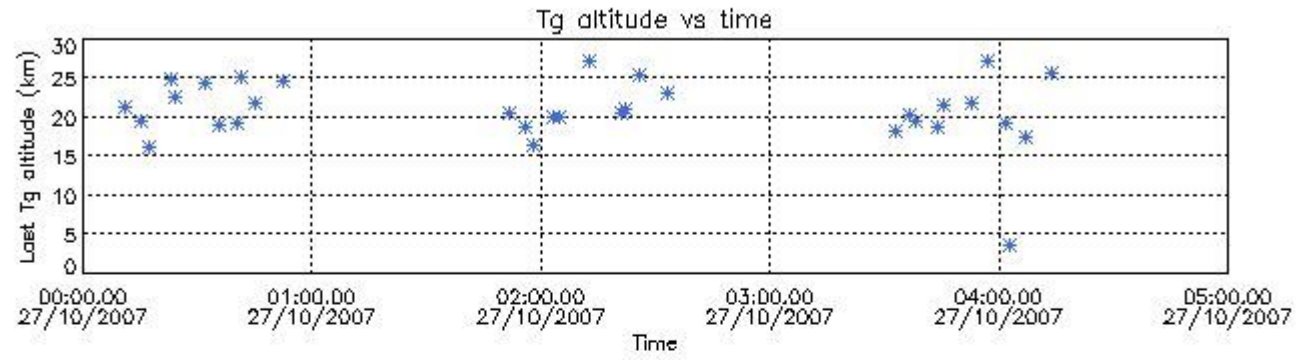
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

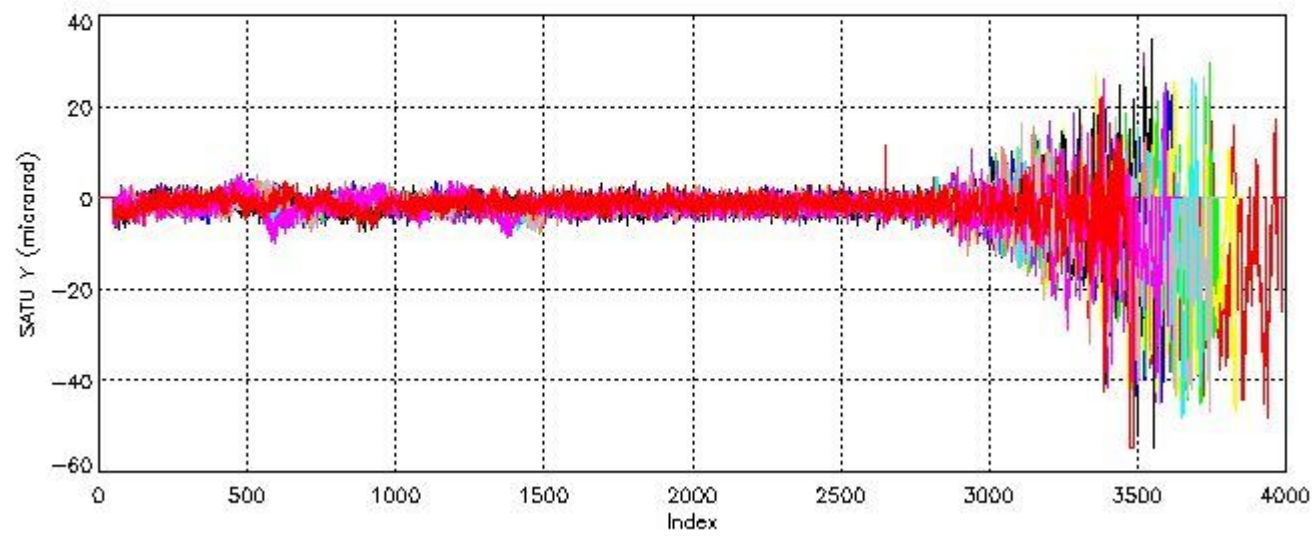
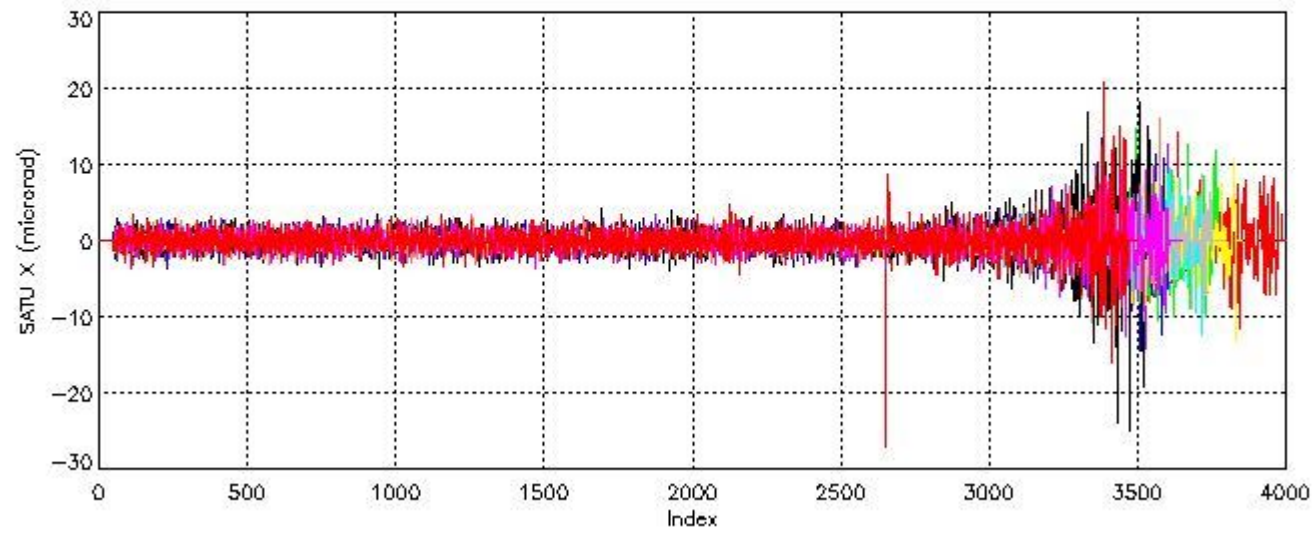


7. Star Acquisition and Tracking Unit (SATU)

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: | -0.018535 | -1.3866 | 0.035501 | -1.2594 |
| St. deviation: | 0.60830 | 1.7069 | 0.68875 | 1.6000 |
| Maximum: | 3.0000 | 5.4000 | 4.9000 | 7.5000 |
| Minimum: | -3.6000 | -9.9000 | -4.9000 | -10.400 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 9350.0 | 9350.0 | 26300. | 26300. |
|-----------------|--------|--------|--------|--------|

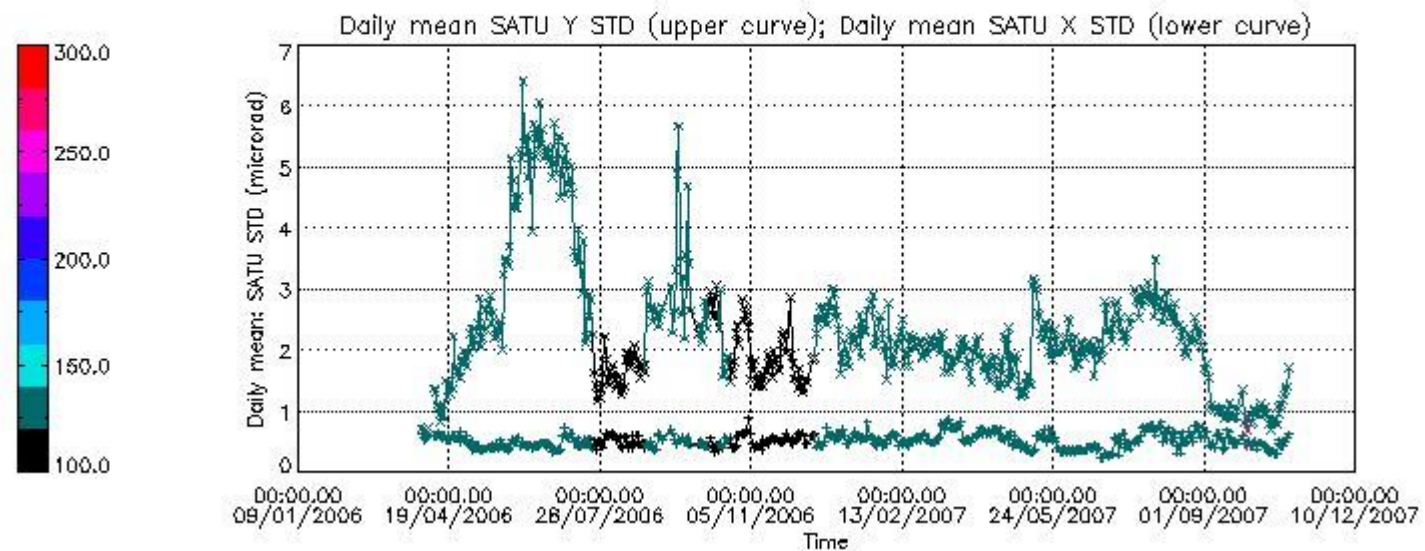
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

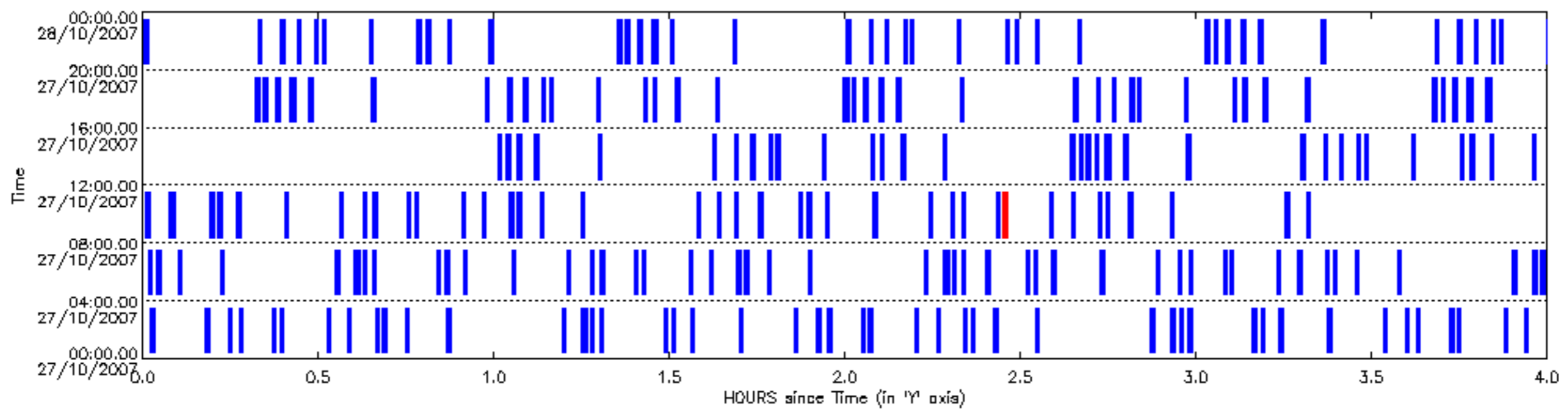
Lower curve: STD of SATU X axis

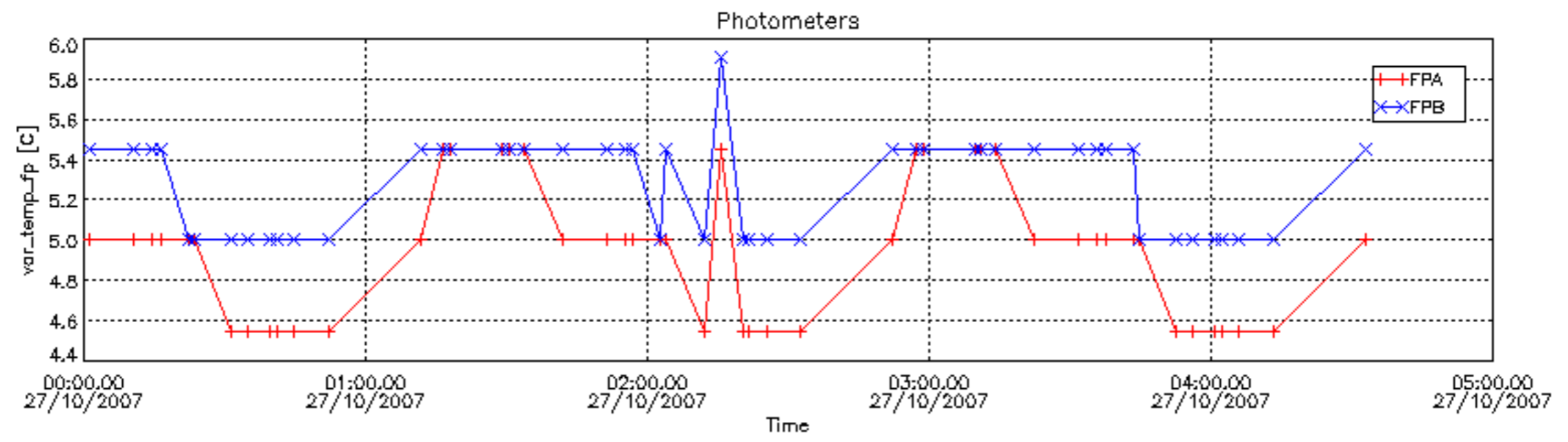
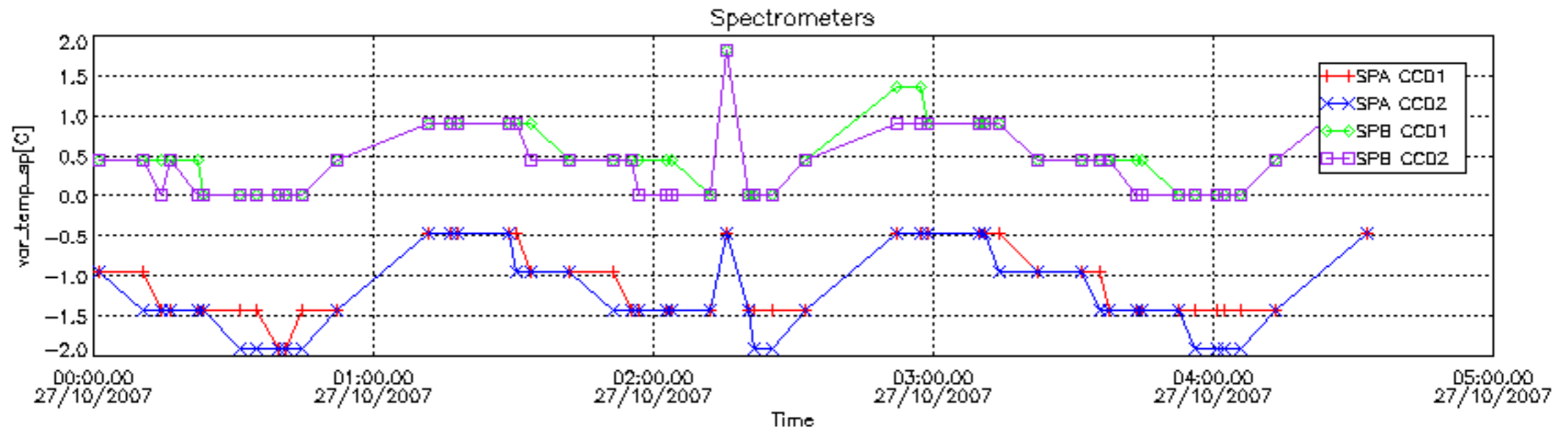


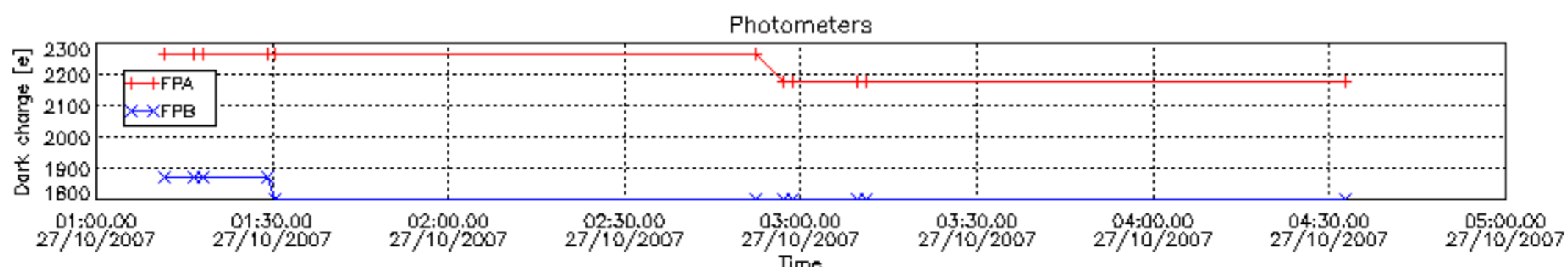
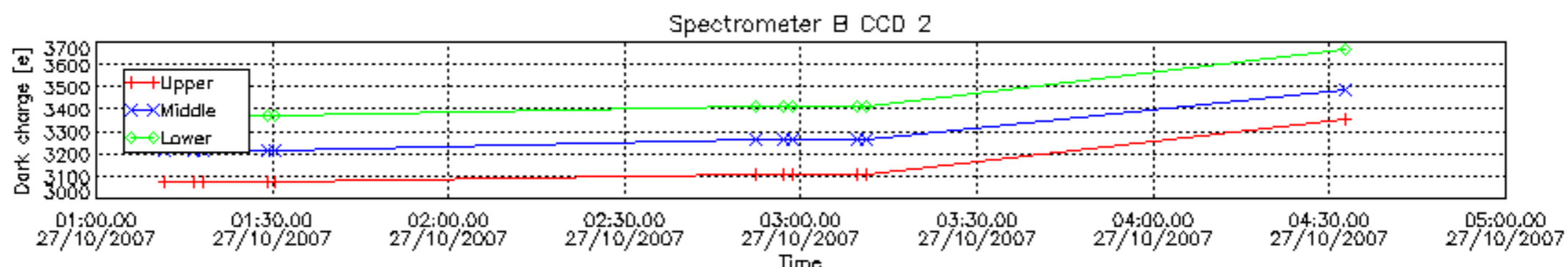
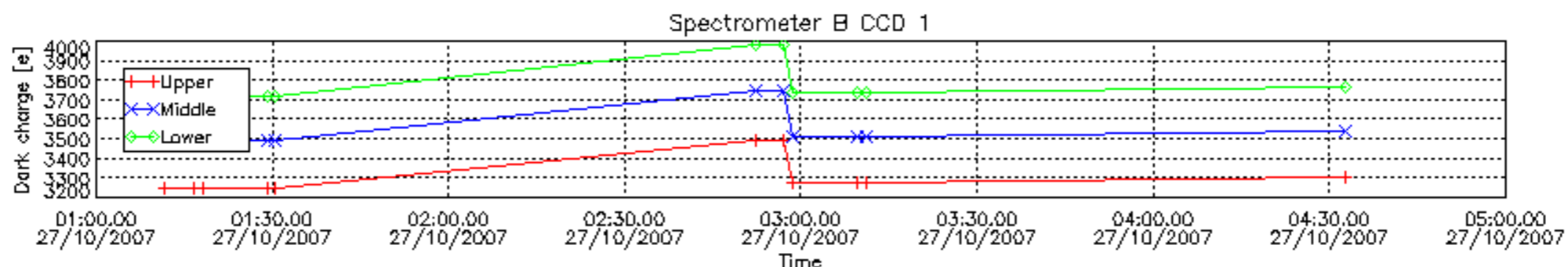
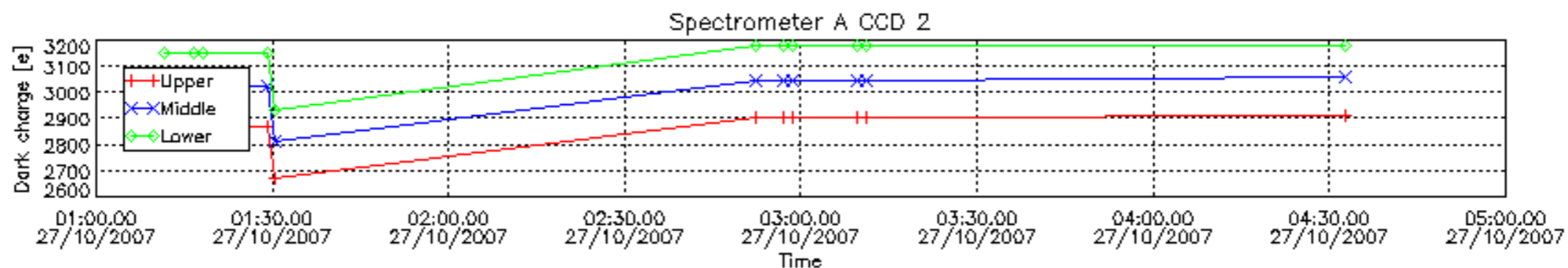
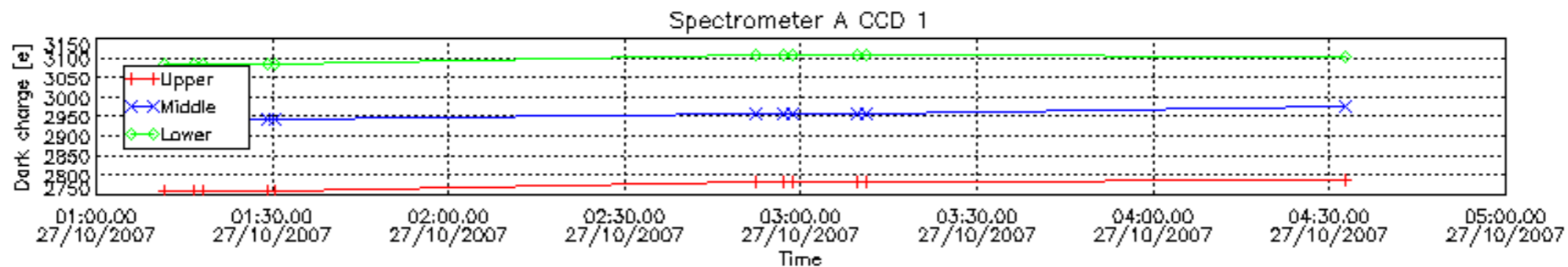
8. Auxiliary Data Files used for the production reported in section 2.4

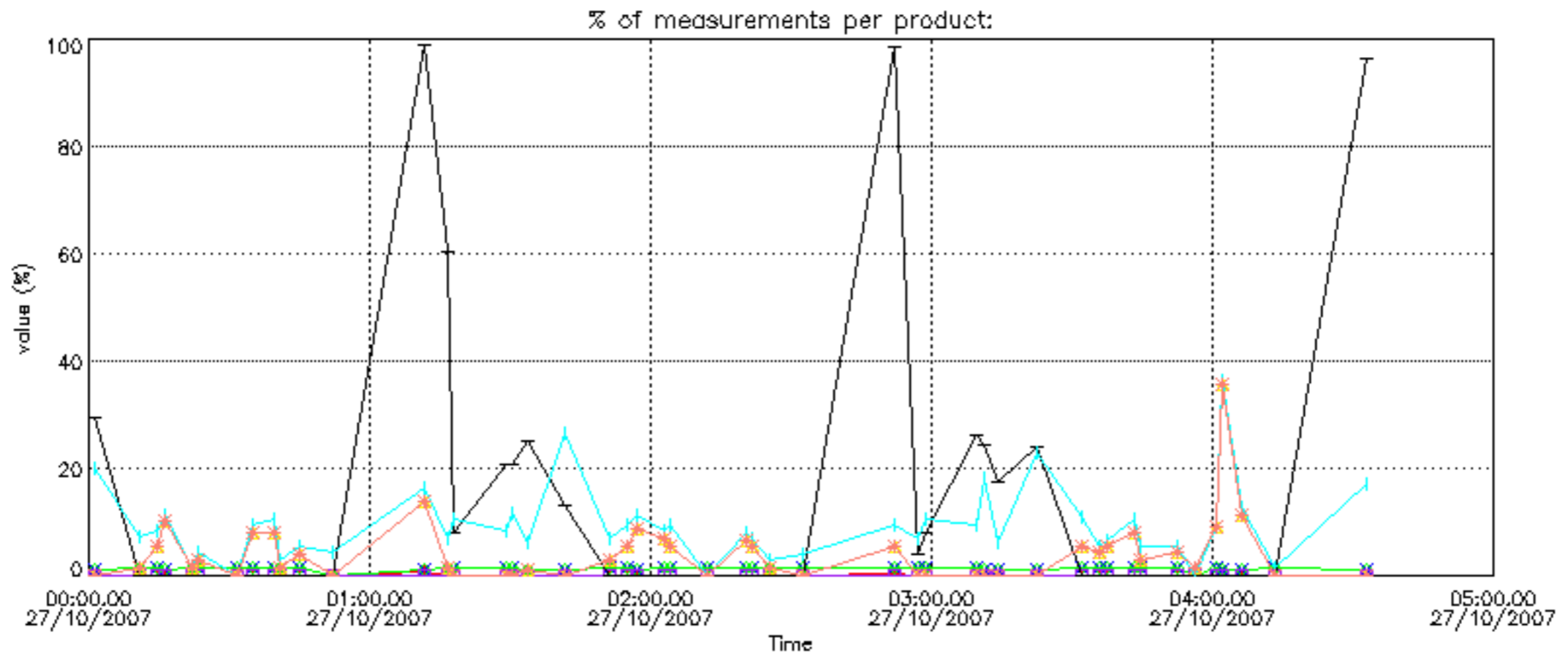
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 27-OCT-2007 00:01:14 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000 | 1 | 27-OCT-2007 00:01:14 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 27-OCT-2007 00:01:14 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 27-OCT-2007 00:01:14 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 27-OCT-2007 00:01:14 |
| ECMWF_FILE | AUX_ECF_AXNECM20071026_060112_20071026_210000_20071027_090000 | 1 | 27-OCT-2007 00:01:14 |
| ECMWF_FILE | AUX_ECF_AXNECM20071026_183930_20071027_030000_20071027_150000 | 45 | 27-OCT-2007 04:00:52 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 27-OCT-2007 00:01:14 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071026_213821_000057382062_00458_29570_4436.N1 | 1 | 27-OCT-2007 00:01:14 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071026_231918_000057382062_00459_29571_4437.N1 | 13 | 27-OCT-2007 01:11:38 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071027_010015_000041442062_00460_29572_4438.N1 | 26 | 27-OCT-2007 02:15:38 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071027_021438_000057382062_00461_29573_4439.N1 | 45 | 27-OCT-2007 04:00:52 |

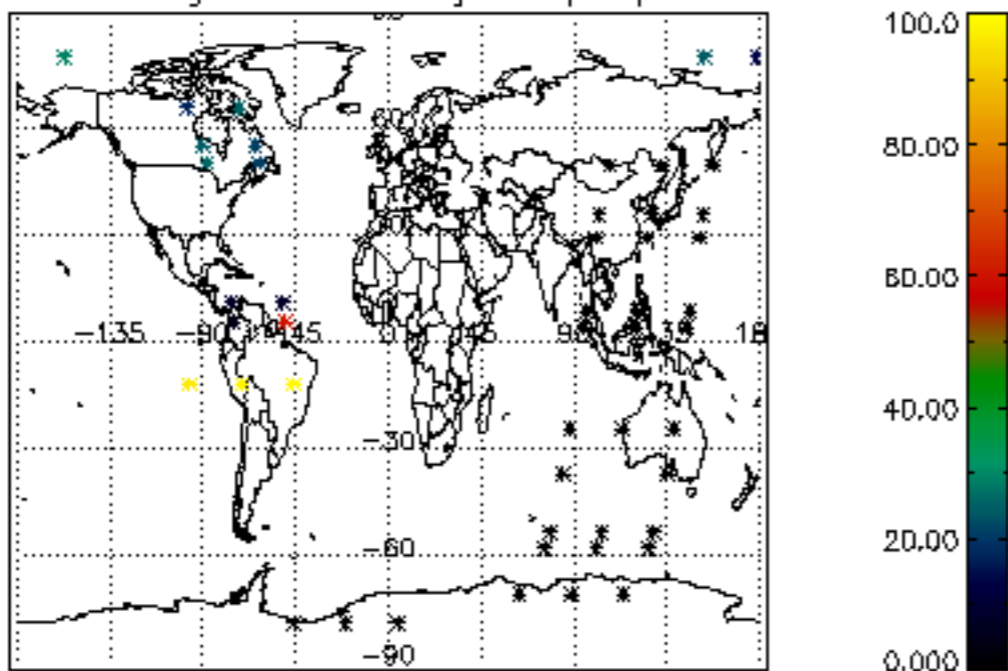




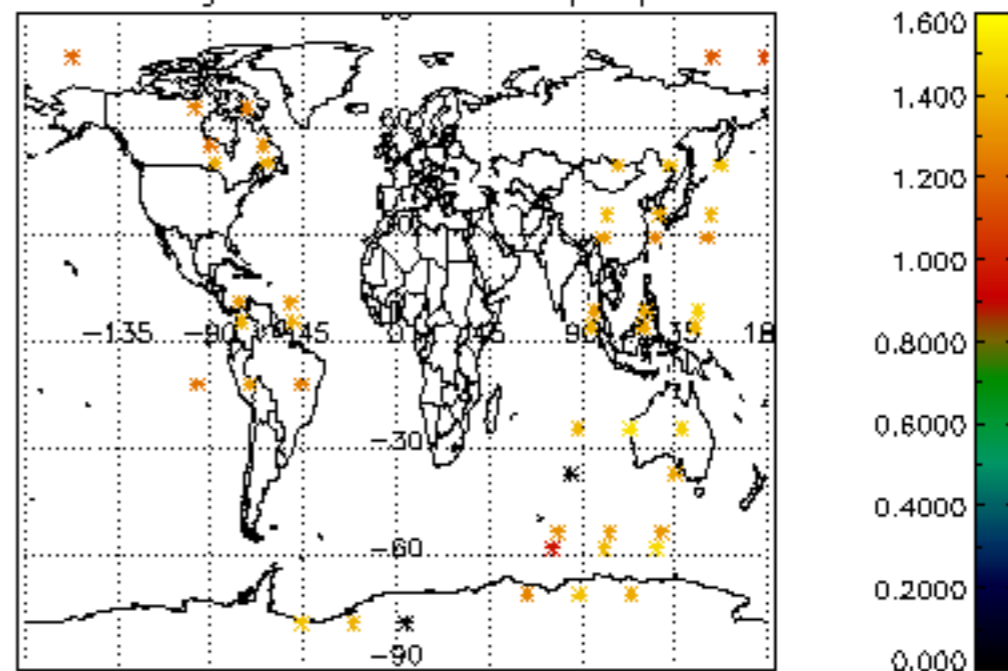




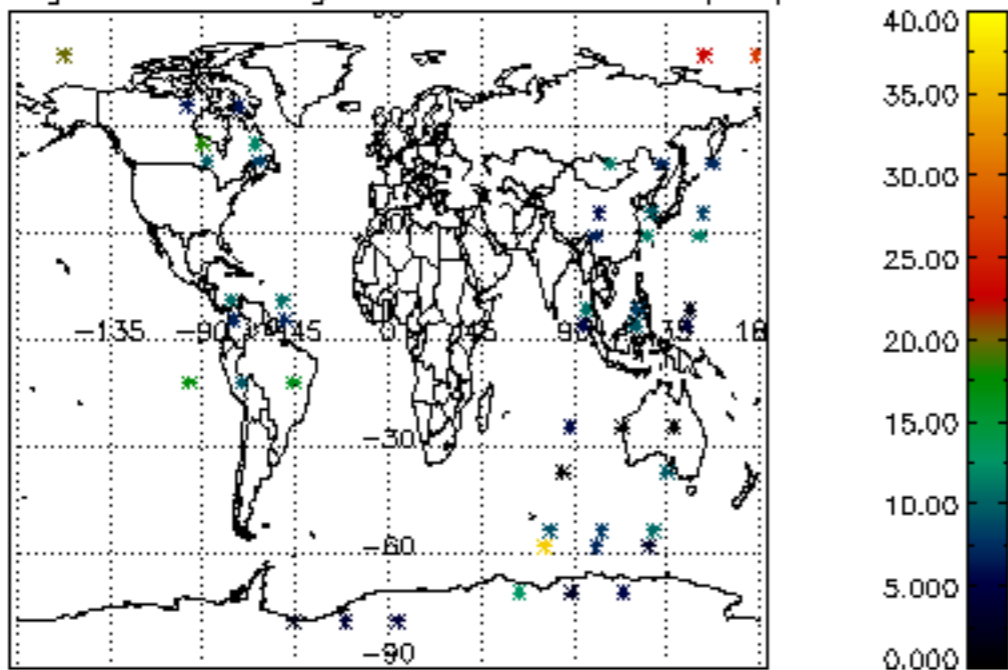
Percentage of cosmic ray hits per profile



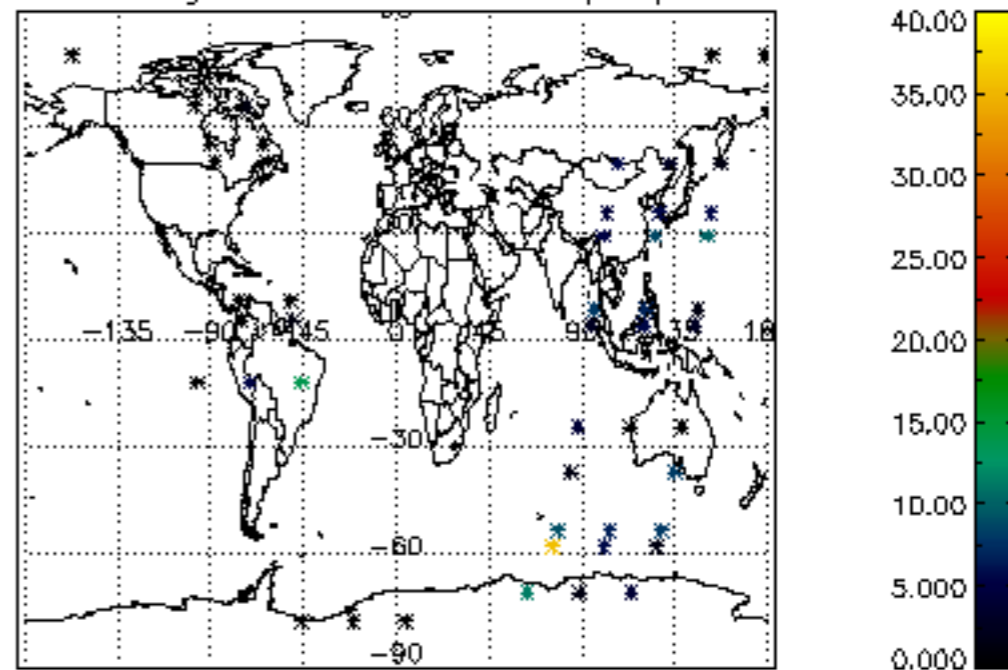
Percentage of datation errors per profile



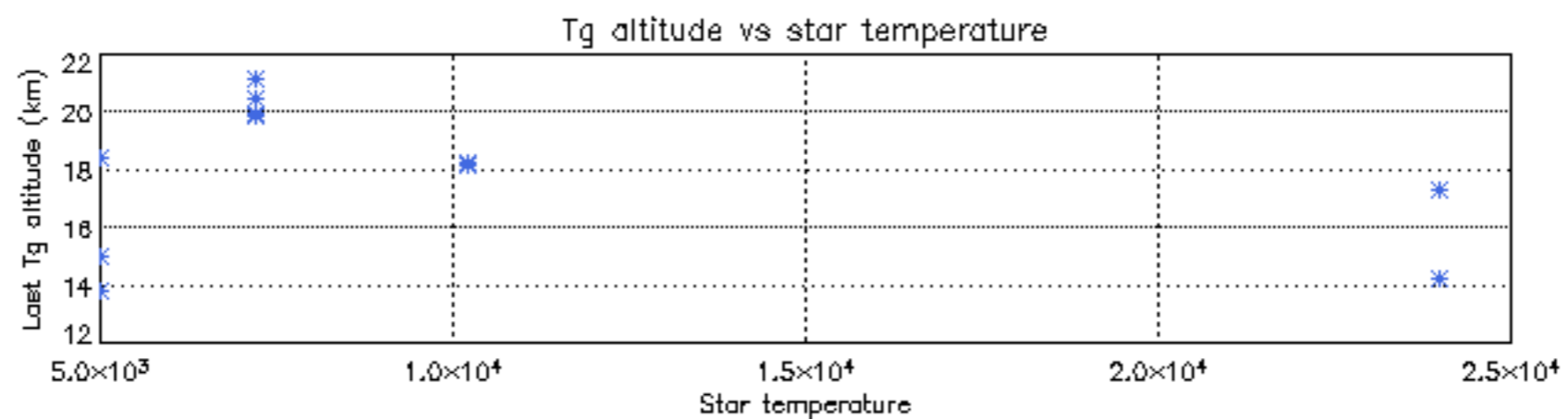
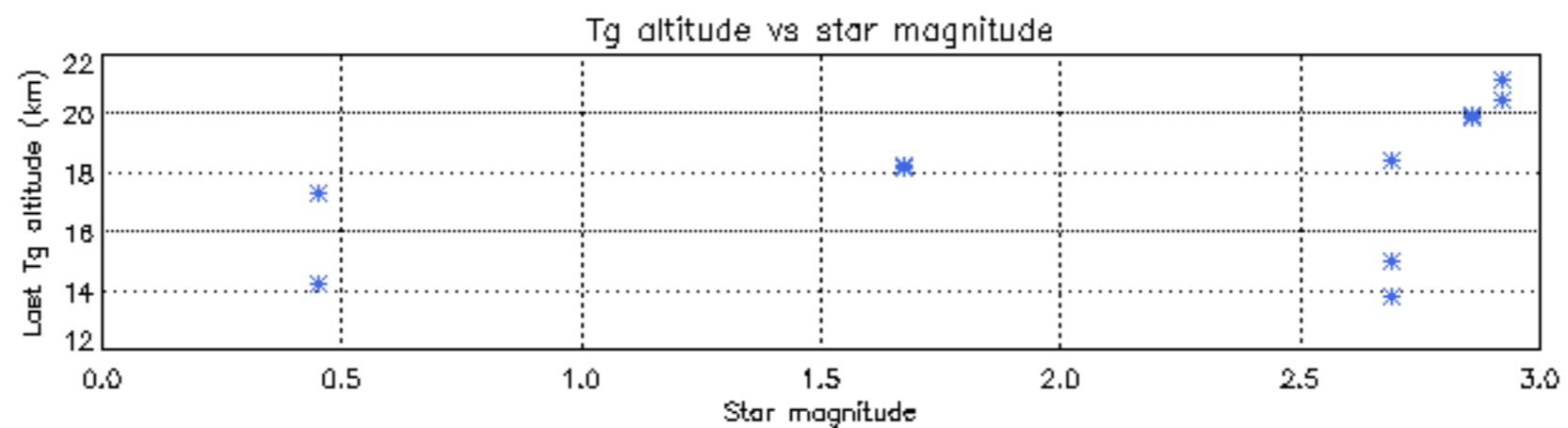
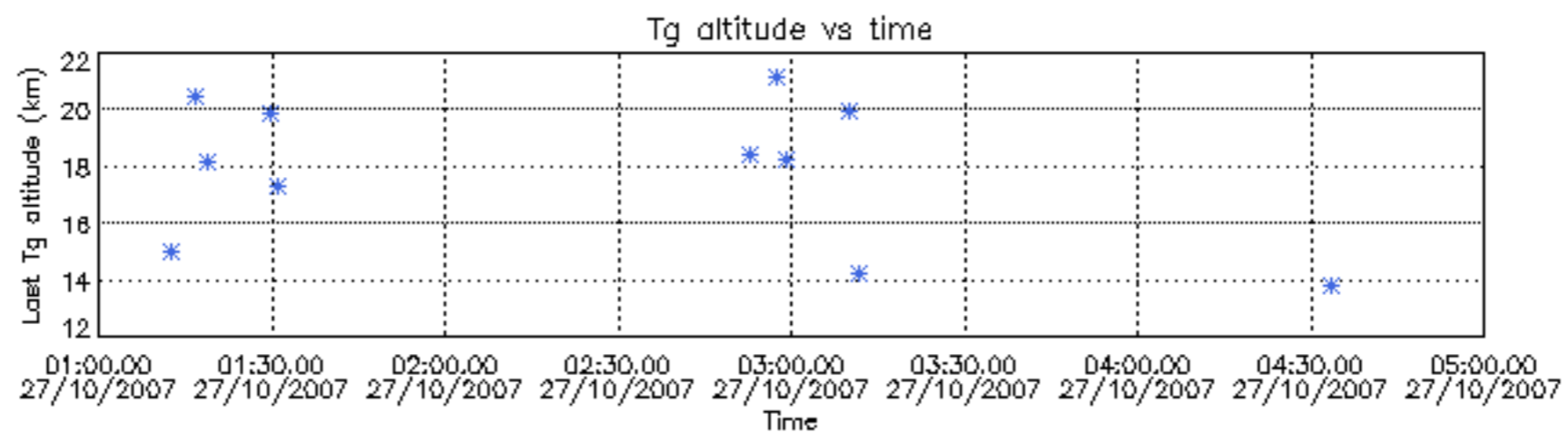
Percentage of star falling outside central band per profile

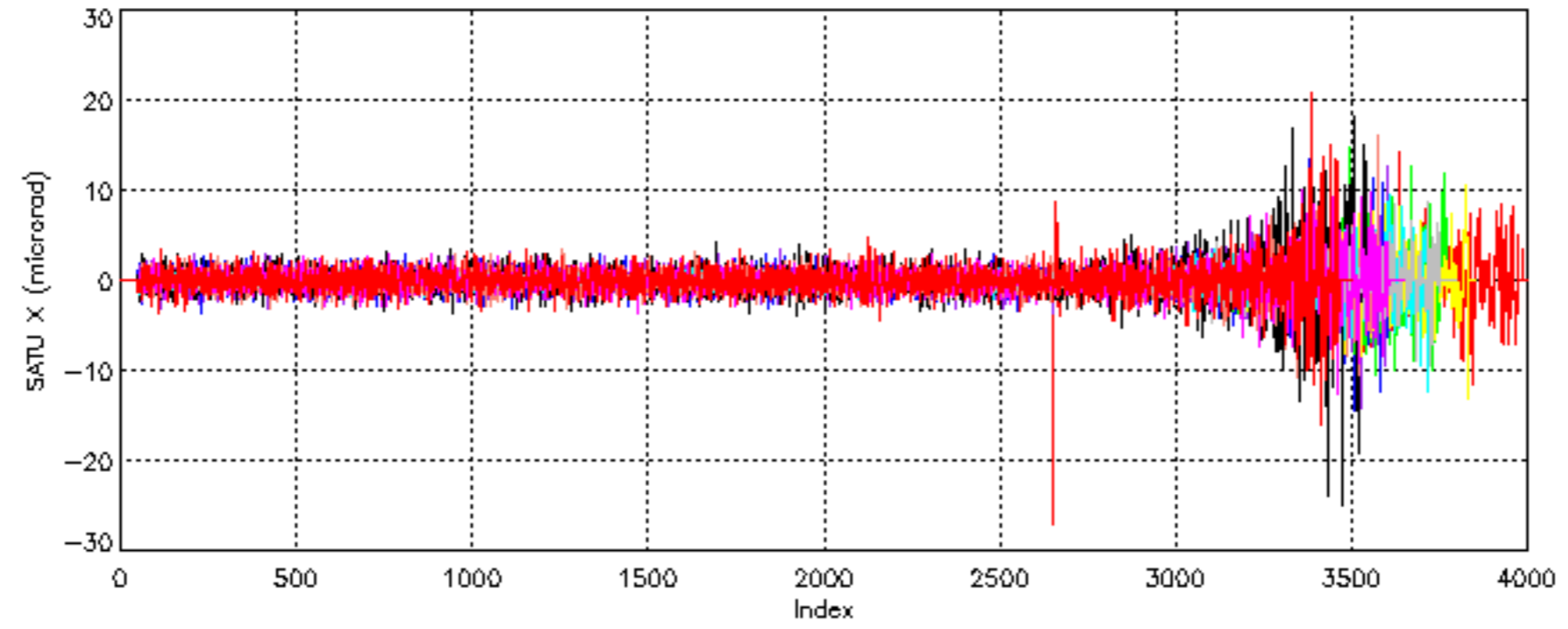


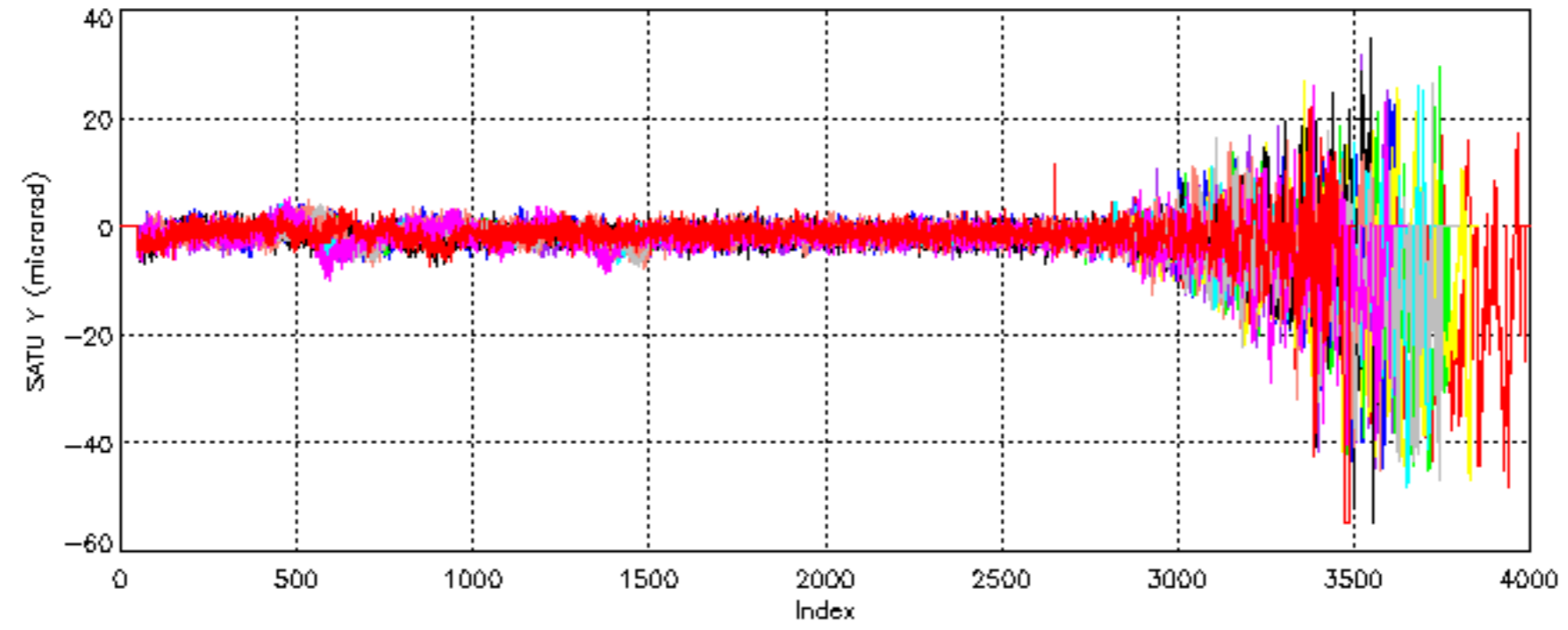
Percentage of saturation errors per profile

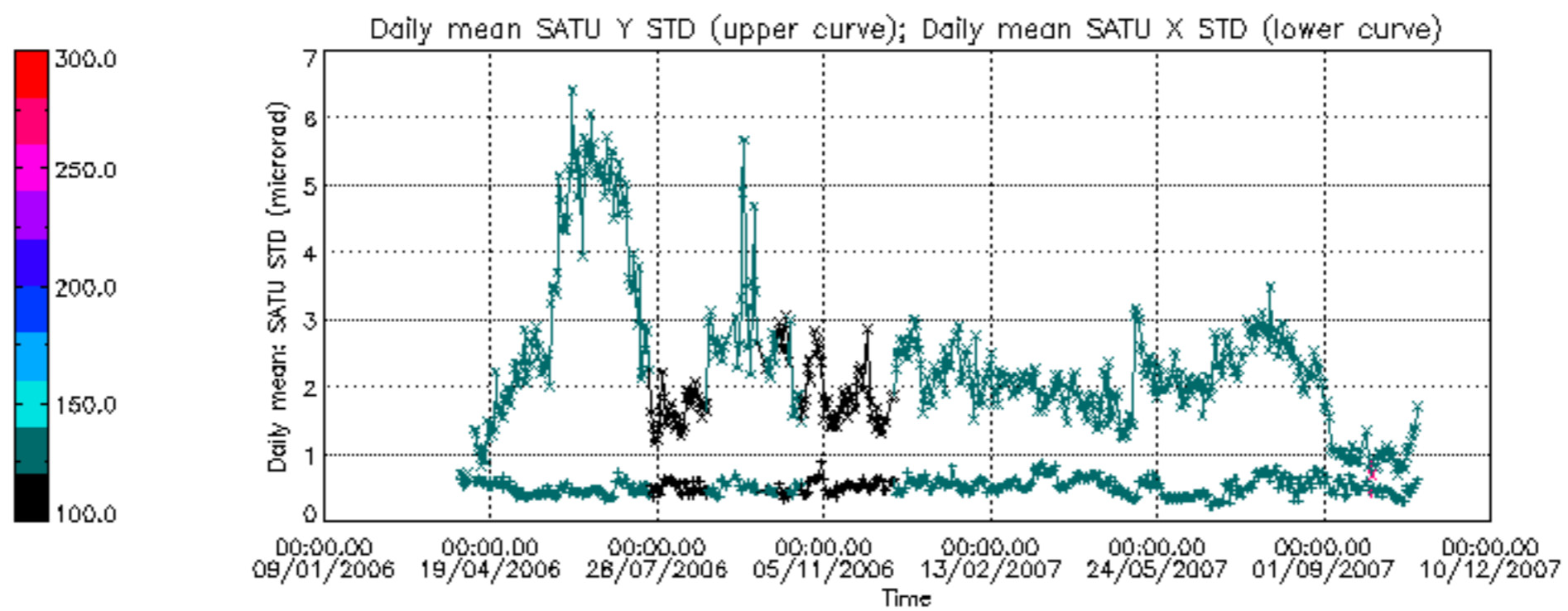


Tangent altitude at which the star is lost









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 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201
 9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201
 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201
 11; 2952.9; 01-OCT-2007 02:21:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29201
 12; 3428.6; 01-OCT-2007 02:29:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29201

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 2; -2041.1; 01-OCT-2007 02:38:49; Bright; 32.5; 82; 48Bet UMA ; 2.37; 10600;occ; 65; 0;29201
 3; -1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201
 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
 9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202
 10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202
 11; 1140.1; 01-OCT-2007 03:31:50; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29202
 12; 2167.6; 01-OCT-2007 03:48:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29202
 13; 2386.3; 01-OCT-2007 03:52:36; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29202
 14; 2952.7; 01-OCT-2007 04:02:02; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29202
 15; 3428.7; 01-OCT-2007 04:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29202

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 3; -1448.9; 01-OCT-2007 04:29:17; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29202
 4; -876.3; 01-OCT-2007 04:38:49; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29202
 5; -452.8; 01-OCT-2007 04:45:53; Dark ; 32.0; 132; 15Rho Pup ; 2.80; 6900;occ; 64; 0;29202
 6; -295.5; 01-OCT-2007 04:48:30; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29202
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 9; 83.7; 01-OCT-2007 04:54:49; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29203
 10; 168.0; 01-OCT-2007 04:56:14; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29203
 11; 730.6; 01-OCT-2007 05:05:36; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29203
 12; 818.3; 01-OCT-2007 05:07:04; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29203
 13; 1140.4; 01-OCT-2007 05:12:26; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29203
 14; 2167.7; 01-OCT-2007 05:29:33; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;29203
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 16; 2952.5; 01-OCT-2007 05:42:38; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;29203
 17; 3428.7; 01-OCT-2007 05:50:34; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29203

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 2; 1558.3; 01-OCT-2007 20:24:47; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;29212
 3; 2168.2; 01-OCT-2007 20:34:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29212
 4; 2386.3; 01-OCT-2007 20:38:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29212
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 6; 3428.5; 01-OCT-2007 20:55:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29212
 7; 3906.1; 01-OCT-2007 21:03:55; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;29212
 8; 3996.4; 01-OCT-2007 21:05:26; Bright; 43.0; 82; 48Bet UMA ; 2.37; 10600;occ; 86; 0;29212
 9; 4588.8; 01-OCT-2007 21:15:18; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29212
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 6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213
 7; 734.4; 01-OCT-2007 21:51:39; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29213
 8; 822.1; 01-OCT-2007 21:53:07; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29213
 9; 1143.1; 01-OCT-2007 21:58:28; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29213

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12; 2386.3; 01-OCT-2007 22:19:11; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29213
13; 2949.8; 01-OCT-2007 22:28:35; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29213
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16; 3996.5; 01-OCT-2007 22:46:02; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29213
17; 4589.0; 01-OCT-2007 22:55:54; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29213
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11; 2386.4; 01-OCT-2007 23:59:47; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29214
12; 2949.6; 02-OCT-2007 00:09:10; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29214
13; 3428.4; 02-OCT-2007 00:17:09; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29214
14; 3906.4; 02-OCT-2007 00:25:07; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29214
15; 3996.6; 02-OCT-2007 00:26:38; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;29214
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13; 1559.0; 02-OCT-2007 04:47:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29217
14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
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16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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2;-2039.0; 02-OCT-2007 05:28:26; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29217
3;-1446.1; 02-OCT-2007 05:38:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29217
4; -870.3; 02-OCT-2007 05:47:54; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29217
5; -289.8; 02-OCT-2007 05:57:35; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29217
6; -132.5; 02-OCT-2007 06:00:12; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29218
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13; 1559.1; 02-OCT-2007 06:28:24; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29218
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16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
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5; -289.4; 02-OCT-2007 07:38:11; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29218
6; -212.3; 02-OCT-2007 07:39:28; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29218
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8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
12; 824.4; 02-OCT-2007 07:56:45; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
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2; 2168.4; 02-OCT-2007 08:19:09; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29219
3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219
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 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 3; 2948.1; 02-OCT-2007 10:12:45; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29220
 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220
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 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
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 13; 6133.0; 02-OCT-2007 11:05:50; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29220
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 15; 6773.3; 02-OCT-2007 11:16:30; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29220
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 18; 7595.4; 02-OCT-2007 11:30:12; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29220

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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221
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 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221
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 14; 6218.1; 02-OCT-2007 12:47:50; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29221
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 17; 7181.6; 02-OCT-2007 13:03:54; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29221
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222
 4; 2947.6; 02-OCT-2007 13:33:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29222
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 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222
 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222
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 16; 6774.2; 02-OCT-2007 14:37:42; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29222
 17; 6861.9; 02-OCT-2007 14:39:10; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29222
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 13; 2946.4; 02-OCT-2007 21:56:54; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29227
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 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227
 18; 5169.7; 02-OCT-2007 22:33:58; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29227

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 4; 102.4; 02-OCT-2007 22:50:06; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29228
 5; 186.7; 02-OCT-2007 22:51:31; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29228
 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
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 13; 3428.1; 02-OCT-2007 23:45:32; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29228
 14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
 15; 3998.2; 02-OCT-2007 23:55:02; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29228
 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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13; 1151.9; 04-OCT-2007 03:37:47; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;29245
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8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
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 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
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 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
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 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
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10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
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5; 3006.3; 06-OCT-2007 11:28:27; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29278
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9; 4199.7; 06-OCT-2007 11:48:20; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29278
10; 4602.2; 06-OCT-2007 11:55:03; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29278
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 13; 5278.7; 16-OCT-2007 18:34:21; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;29425
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 15; 6042.2; 16-OCT-2007 18:47:04; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29425
 16; 6174.7; 16-OCT-2007 18:49:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29425
 17; 6299.7; 16-OCT-2007 18:51:22; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29425
 18; 6379.9; 16-OCT-2007 18:52:42; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29425
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 16; 6175.5; 16-OCT-2007 20:29:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29426
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 5; 267.0; 17-OCT-2007 01:33:49; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29430
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 5; -1201.4; 17-OCT-2007 02:49:56; Bright; 48.5; 22; 32Alp Leo ; 1.36; 15200;occ; 97; 0;29430
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 9; 143.2; 17-OCT-2007 03:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29431
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 11; 347.9; 17-OCT-2007 03:15:46; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29431
 12; 1051.2; 17-OCT-2007 03:27:29; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;29431
 13; 1589.1; 17-OCT-2007 03:36:27; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29431

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5; 2879.0; 19-OCT-2007 11:17:42; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29464
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7; 3425.4; 19-OCT-2007 11:26:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29464

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| 13; | 5811.0; | 21-OCT-2007 | 14:24:32; | Dark | ; | 40.5; | 113; | Mu | Vel | ; | 2.69; | 5000; | occ; | 81; | 0; | 29494 |
| 14; | 5895.5; | 21-OCT-2007 | 14:25:56; | Dark | ; | 48.5; | 65; | Lam | Vel | ; | 2.20; | 4400; | occ; | 97; | 0; | 29494 |
| 15; | 5980.5; | 21-OCT-2007 | 14:27:21; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 29494 |
| 16; | 6096.8; | 21-OCT-2007 | 14:29:18; | Dark | ; | 43.0; | 34; | Gam2 | Vel | ; | 1.79; | 23000; | occ; | 86; | 0; | 29494 |
| 17; | 6197.7; | 21-OCT-2007 | 14:30:59; | Dark | ; | 38.5; | 29; | Bet | Car | ; | 1.67; | 10200; | occ; | 77; | 0; | 29494 |
| 18; | 6435.9; | 21-OCT-2007 | 14:34:57; | Dark | ; | 47.0; | 2; | Alp | Car | ; | -0.74; | 7000; | occ; | 94; | 0; | 29494 |
| 19; | 6861.0; | 21-OCT-2007 | 14:42:02; | Dark | ; | 37.5; | 143; | Alp | Hyi | ; | 2.86; | 7200; | occ; | 75; | 0; | 29494 |
| 20; | 6946.5; | 21-OCT-2007 | 14:43:27; | Dark | ; | 43.5; | 9; | Alp | Eri | ; | 0.45; | 24000; | occ; | 87; | 0; | 29494 |
| 21; | 7117.0; | 21-OCT-2007 | 14:46:18; | Dark | ; | 43.5; | 157; | The1 | Eri | ; | 2.91; | 9300; | occ; | 87; | 0; | 29494 |

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|-----|---------|-------------|-----------|---------|---|-------|------|--------|-----|---|--------|--------|------|------|----|-------|
| 1; | 1598.8; | 21-OCT-2007 | 14:54:56; | Dark | ; | 44.5; | 52; | 16Bet | Cet | ; | 2.04; | 4500; | occ; | 89; | 0; | 29495 |
| 2; | 2170.3; | 21-OCT-2007 | 15:04:27; | Bright; | ; | 36.0; | 140; | 88Gam | Peg | ; | 2.83; | 26000; | occ; | 72; | 0; | 29495 |
| 3; | 2404.9; | 21-OCT-2007 | 15:08:22; | Bright; | ; | 36.0; | 58; | 21Alp | And | ; | 2.07; | 11000; | occ; | 72; | 0; | 29495 |
| 4; | 2534.0; | 21-OCT-2007 | 15:10:31; | Bright; | ; | 40.5; | 53; | 43Bet | And | ; | 2.05; | 3300; | occ; | 81; | 0; | 29495 |
| 5; | 2875.1; | 21-OCT-2007 | 15:16:12; | Bright; | ; | 35.0; | 68; | 18Alp | Cas | ; | 2.22; | 4500; | occ; | 70; | 0; | 29495 |
| 6; | 2953.5; | 21-OCT-2007 | 15:17:30; | Bright; | ; | 38.0; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 76; | 0; | 29495 |
| 7; | 3425.3; | 21-OCT-2007 | 15:25:22; | Bright; | ; | 36.0; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 72; | 0; | 29495 |
| 8; | 3623.3; | 21-OCT-2007 | 15:28:40; | Bright; | ; | 35.5; | 60; | 7Bet | UMi | ; | 2.08; | 3950; | occ; | 71; | 0; | 29495 |
| 9; | 3920.3; | 21-OCT-2007 | 15:33:37; | Bright; | ; | 37.5; | 36; | 50Alp | UMa | ; | 1.80; | 6300; | occ; | 75; | 0; | 29495 |
| 10; | 4014.6; | 21-OCT-2007 | 15:35:11; | Bright; | ; | 34.0; | 82; | 48Bet | UMa | ; | 2.37; | 10600; | occ; | 68; | 0; | 29495 |
| 11; | 4223.1; | 21-OCT-2007 | 15:38:40; | Bright; | ; | 37.5; | 174; | 52Psi | UMa | ; | 3.00; | 4400; | occ; | 75; | 0; | 29495 |
| 12; | 4697.0; | 21-OCT-2007 | 15:46:34; | Bright; | ; | 40.5; | 51; | 41Gam1 | Leo | ; | 2.01; | 4500; | occ; | 81; | 0; | 29495 |
| 13; | 5811.3; | 21-OCT-2007 | 16:05:08; | Dark | ; | 38.0; | 113; | Mu | Vel | ; | 2.69; | 5000; | occ; | 76; | 0; | 29495 |
| 14; | 5896.3; | 21-OCT-2007 | 16:06:33; | Dark | ; | 55.0; | 65; | Lam | Vel | ; | 2.20; | 4400; | occ; | 110; | 0; | 29495 |
| 15; | 5981.3; | 21-OCT-2007 | 16:07:58; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 29495 |
| 16; | 6097.7; | 21-OCT-2007 | 16:09:54; | Dark | ; | 42.0; | 34; | Gam2 | Vel | ; | 1.79; | 23000; | occ; | 84; | 0; | 29495 |
| 17; | 6198.1; | 21-OCT-2007 | 16:11:35; | Dark | ; | 38.5; | 29; | Bet | Car | ; | 1.67; | 10200; | occ; | 77; | 0; | 29495 |
| 18; | 6436.8; | 21-OCT-2007 | 16:15:34; | Dark | ; | 47.0; | 2; | Alp | Car | ; | -0.74; | 7000; | occ; | 94; | 0; | 29495 |
| 19; | 6861.3; | 21-OCT-2007 | 16:22:38; | Dark | ; | 36.5; | 143; | Alp | Hyi | ; | 2.86; | 7200; | occ; | 73; | 0; | 29495 |
| 20; | 6946.9; | 21-OCT-2007 | 16:24:04; | Dark | ; | 46.5; | 9; | Alp | Eri | ; | 0.45; | 24000; | occ; | 93; | 0; | 29495 |
| 21; | 7117.7; | 21-OCT-2007 | 16:26:54; | Dark | ; | 42.5; | 157; | The1 | Eri | ; | 2.91; | 9300; | occ; | 85; | 0; | 29495 |

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|----|---------|-------------|-----------|------|---|-------|-----|-------|-----|---|-------|-------|------|-----|----|-------|

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3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496
4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496
5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496
6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496
7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496
8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496
9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496
10; 4014.6; 21-OCT-2007 17:15:47; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29496
11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496
12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496
13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496
14; 5896.9; 21-OCT-2007 17:47:10; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29496
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16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496
17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496
18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496
19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496
20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497
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4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497
5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497
6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497
7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497
8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497
9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497
10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497
11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497
12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497
13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497
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16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497
17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497
18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497
19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497
20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497
21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499
5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499
6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499
7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499
8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499
9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499
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16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499
17; 3624.0; 21-OCT-2007 22:11:05; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29499
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19; 4014.3; 21-OCT-2007 22:17:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29499
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8; 911.7; 21-OCT-2007 23:06:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29500
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12; 2405.1; 21-OCT-2007 23:31:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29500
13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
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17; 3624.2; 21-OCT-2007 23:51:41; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29500
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19; 4014.2; 21-OCT-2007 23:58:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29500
20; 4223.4; 22-OCT-2007 00:01:40; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29500
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3; 163.3; 22-OCT-2007 00:34:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29501
4; 404.8; 22-OCT-2007 00:38:37; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29501
5; 826.4; 22-OCT-2007 00:45:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29501
6; 911.9; 22-OCT-2007 00:47:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29501
7; 1083.7; 22-OCT-2007 00:49:56; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29501
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13; 2952.6; 22-OCT-2007 01:21:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29501
14; 3425.1; 22-OCT-2007 01:28:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29501
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16; 3919.8; 22-OCT-2007 01:37:12; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29501
17; 4014.1; 22-OCT-2007 01:38:47; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29501
18; 4223.4; 22-OCT-2007 01:42:16; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29501
19; 4698.7; 22-OCT-2007 01:50:11; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;29501
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4; 405.6; 22-OCT-2007 02:19:14; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29502
5; 826.9; 22-OCT-2007 02:26:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29502
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7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
8; 1599.8; 22-OCT-2007 02:39:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29502
9; 2170.9; 22-OCT-2007 02:48:39; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29502
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12; 2874.2; 22-OCT-2007 03:00:22; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29502
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9; 61.7; 24-OCT-2007 07:52:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29534
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 13; 5823.3; 24-OCT-2007 14:30:29; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29537
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