

GOMOS Daily Report 24-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 | 25OCT2007 05:49:40 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START) (24OCT2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP) (25OCT2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 48 |
| Nb of prods with errors | 1 |

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

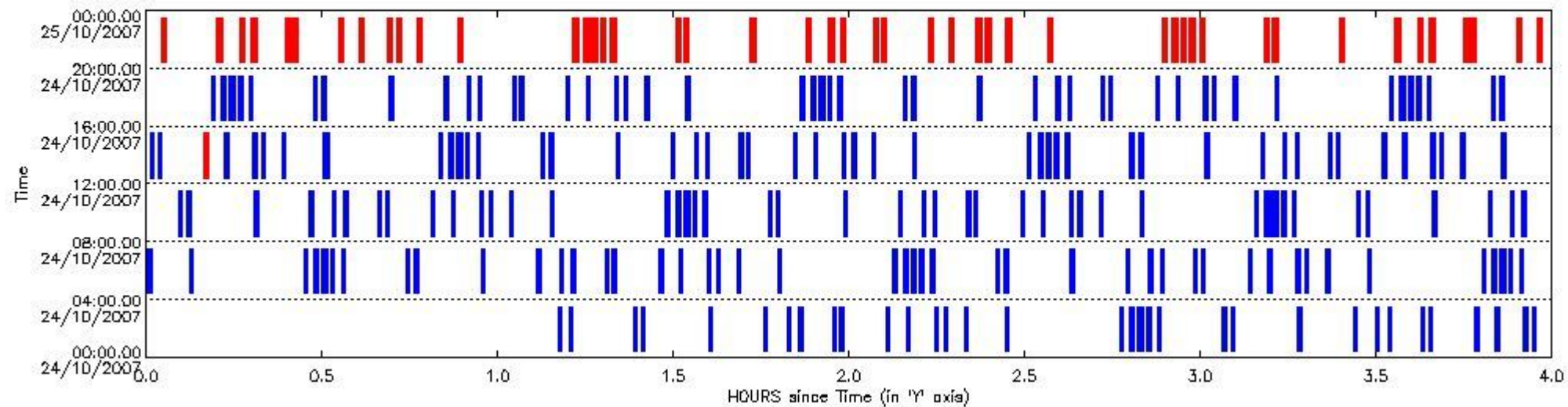
2.1 Level 0 products arrived in PCF (see template [here](#))

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 |
|----------------------|-----------|---------|-------|
| 24-OCT-2007 12:09:52 | 1AlpUMi | 49 | 29536 |
| 24-OCT-2007 20:02:33 | 16BetCet | 52 | 29541 |
| 24-OCT-2007 20:12:02 | 88GamPeg | 140 | 29541 |
| 24-OCT-2007 20:15:55 | 21AlpAnd | 58 | 29541 |
| 24-OCT-2007 20:17:52 | 43BetAnd | 53 | 29541 |
| 24-OCT-2007 20:23:37 | 18AlpCas | 68 | 29541 |
| 24-OCT-2007 20:24:54 | 27GamCas | 76 | 29541 |
| 24-OCT-2007 20:32:51 | 1AlpUMi | 49 | 29541 |
| 24-OCT-2007 20:36:19 | 7BetUMi | 60 | 29541 |
| 24-OCT-2007 20:41:05 | 50AlpUMa | 36 | 29541 |
| 24-OCT-2007 20:42:41 | 48BetUMa | 82 | 29541 |
| 24-OCT-2007 20:46:12 | 52PsiUMa | 174 | 29541 |
| 24-OCT-2007 20:53:14 | 68DelLeo | 96 | 29541 |
| 24-OCT-2007 21:12:51 | MuVel | 113 | 29541 |
| 24-OCT-2007 21:14:36 | LamVel | 65 | 29541 |

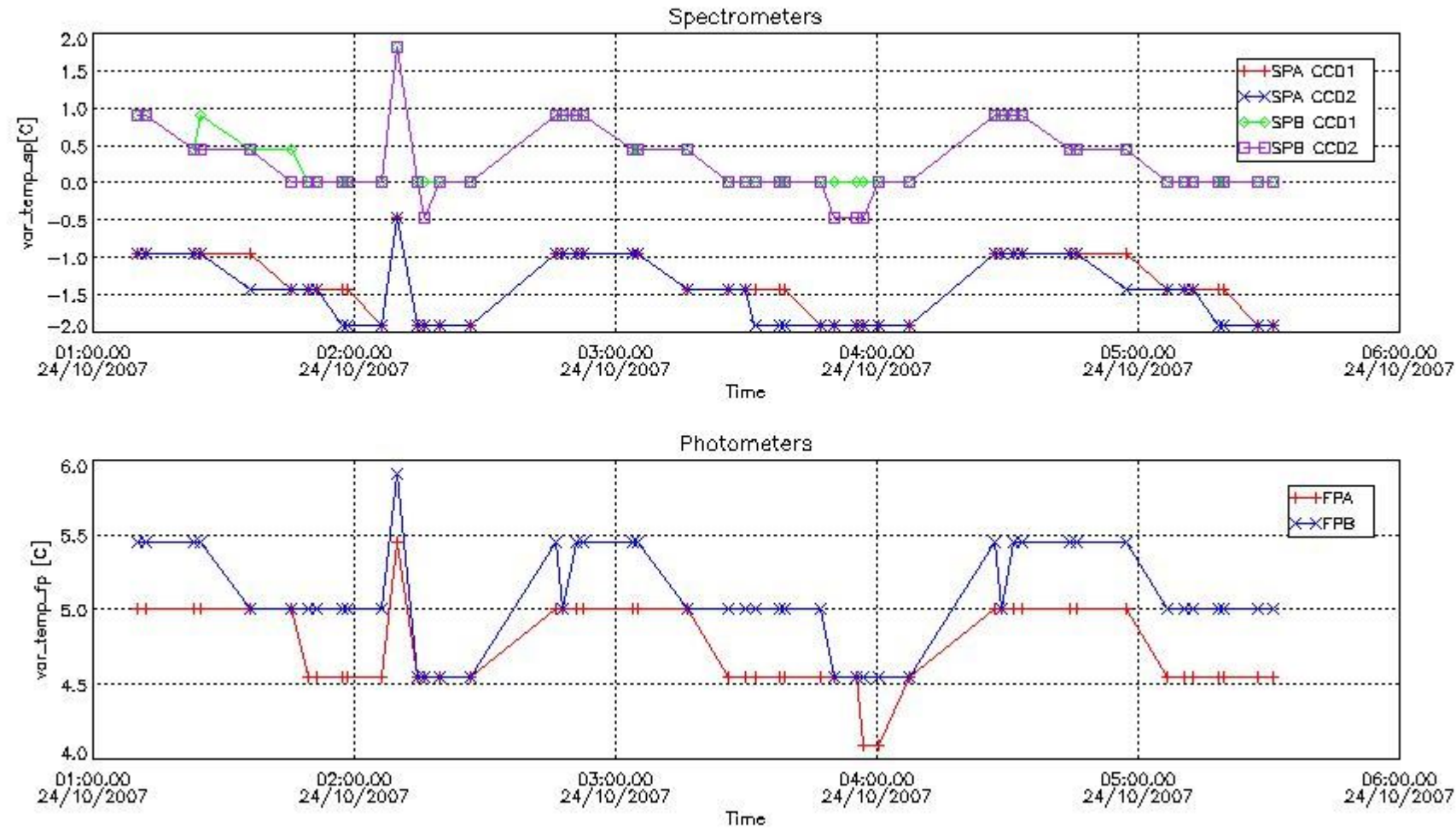
| | | | |
|----------------------|----------|-----|-------|
| 24-OCT-2007 21:15:58 | DSA1030 | 0 | 29541 |
| 24-OCT-2007 21:17:29 | DelVel | 46 | 29542 |
| 24-OCT-2007 21:19:18 | BetCar | 29 | 29542 |
| 24-OCT-2007 21:30:19 | AlpHyi | 143 | 29542 |
| 24-OCT-2007 21:31:44 | AlpEri | 9 | 29542 |
| 24-OCT-2007 21:43:09 | 16BetCet | 52 | 29542 |
| 24-OCT-2007 21:52:38 | 88GamPeg | 140 | 29542 |
| 24-OCT-2007 21:56:31 | 21AlpAnd | 58 | 29542 |
| 24-OCT-2007 21:58:28 | 43BetAnd | 53 | 29542 |
| 24-OCT-2007 22:04:13 | 18AlpCas | 68 | 29542 |
| 24-OCT-2007 22:05:30 | 27GamCas | 76 | 29542 |
| 24-OCT-2007 22:13:27 | 1AlpUMi | 49 | 29542 |
| 24-OCT-2007 22:16:56 | 7BetUMi | 60 | 29542 |
| 24-OCT-2007 22:21:41 | 50AlpUMa | 36 | 29542 |
| 24-OCT-2007 22:23:16 | 48BetUMa | 82 | 29542 |
| 24-OCT-2007 22:26:48 | 52PsiUMa | 174 | 29542 |
| 24-OCT-2007 22:33:50 | 68DelLeo | 96 | 29542 |
| 24-OCT-2007 22:53:27 | MuVel | 113 | 29542 |
| 24-OCT-2007 22:55:12 | LamVel | 65 | 29542 |
| 24-OCT-2007 22:56:35 | DSA1030 | 0 | 29542 |
| 24-OCT-2007 22:58:05 | DelVel | 46 | 29543 |
| 24-OCT-2007 22:59:54 | BetCar | 29 | 29543 |
| 24-OCT-2007 23:10:55 | AlpHyi | 143 | 29543 |
| 24-OCT-2007 23:12:20 | AlpEri | 9 | 29543 |
| 24-OCT-2007 23:23:45 | 16BetCet | 52 | 29543 |
| 24-OCT-2007 23:33:14 | 88GamPeg | 140 | 29543 |
| 24-OCT-2007 23:37:07 | 21AlpAnd | 58 | 29543 |
| 24-OCT-2007 23:39:03 | 43BetAnd | 53 | 29543 |
| 24-OCT-2007 23:44:49 | 18AlpCas | 68 | 29543 |
| 24-OCT-2007 23:46:05 | 27GamCas | 76 | 29543 |
| 24-OCT-2007 23:54:03 | 1AlpUMi | 49 | 29543 |
| 24-OCT-2007 23:57:32 | 7BetUMi | 60 | 29543 |

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_1PNPDE20071024_011013_000000422062_00418_29530_7396.N1 | 24-OCT-2007 01:10:13 | Dark | 41.500 | 46 | Del Vel | 1.9540 | 10600. | 83 | 29530 | No |
| 2 | GOM_TRA_1PNPDE20071024_011206_000000382062_00418_29530_7397.N1 | 24-OCT-2007 01:12:06 | Dark | 37.500 | 29 | Bet Car | 1.6720 | 10200. | 75 | 29530 | No |
| 3 | GOM_TRA_1PNPDE20071024_012308_000000372062_00418_29530_7398.N1 | 24-OCT-2007 01:23:08 | Dark | 37.000 | 143 | Alp Hyi | 2.8570 | 7200.0 | 74 | 29530 | No |
| 4 | GOM_TRA_1PNPDE20071024_012433_000000392062_00418_29530_7399.N1 | 24-OCT-2007 01:24:33 | Dark | 38.500 | 9 | Alp Eri | 0.45300 | 24000. | 77 | 29530 | No |
| 5 | GOM_TRA_1PNPDE20071024_013558_000000412062_00418_29530_7400.N1 | 24-OCT-2007 01:35:58 | Straylight | 41.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 82 | 29530 | No |
| 6 | GOM_TRA_1PNPDE20071024_014528_000000352062_00418_29530_7401.N1 | 24-OCT-2007 01:45:28 | Bright | 35.000 | 140 | 88Gam Peg | 2.8340 | 26000. | 70 | 29530 | No |
| 7 | GOM_TRA_1PNPDE20071024_014922_000000362062_00418_29530_7402.N1 | 24-OCT-2007 01:49:22 | Bright | 36.000 | 58 | 21Alp And | 2.0730 | 11000. | 72 | 29530 | No |
| 8 | GOM_TRA_1PNPDE20071024_015121_000000392062_00418_29530_7403.N1 | 24-OCT-2007 01:51:21 | Bright | 39.000 | 53 | 43Bet And | 2.0480 | 3300.0 | 78 | 29530 | No |
| 9 | GOM_TRA_1PNPDE20071024_015706_000000362062_00418_29530_7404.N1 | 24-OCT-2007 01:57:06 | Bright | 35.500 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 71 | 29530 | No |
| 10 | GOM_TRA_1PNPDE20071024_015823_000000372062_00418_29530_7405.N1 | 24-OCT-2007 01:58:23 | Bright | 36.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 73 | 29530 | No |
| 11 | GOM_TRA_1PNPDE20071024_020619_000000342062_00418_29530_7406.N1 | 24-OCT-2007 02:06:19 | Bright | 33.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 67 | 29530 | No |
| 12 | GOM_TRA_1PNPDE20071024_020945_000000382062_00418_29530_7547.N1 | 24-OCT-2007 02:09:45 | Bright | 37.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 75 | 29530 | Yes |
| 13 | GOM_TRA_1PNPDE20071024_021433_000000392062_00418_29530_7548.N1 | 24-OCT-2007 02:14:33 | Bright | 38.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 77 | 29530 | No |
| 14 | GOM_TRA_1PNPDE20071024_021608_000000362062_00418_29530_7549.N1 | 24-OCT-2007 02:16:08 | Bright | 36.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 72 | 29530 | No |
| 15 | GOM_TRA_1PNPDE20071024_021940_000000372062_00418_29530_7550.N1 | 24-OCT-2007 02:19:40 | Bright | 37.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 74 | 29530 | No |
| 16 | GOM_TRA_1PNPDE20071024_022639_000000352062_00418_29530_7551.N1 | 24-OCT-2007 02:26:39 | Bright | 34.500 | 96 | 68Del Leo | 2.5600 | 9300.0 | 69 | 29530 | No |
| 17 | GOM_TRA_1PNPDE20071024_024615_000000372062_00418_29530_7552.N1 | 24-OCT-2007 02:46:15 | Dark | 37.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 74 | 29530 | No |
| 18 | GOM_TRA_1PNPDE20071024_024755_000000472062_00418_29530_7553.N1 | 24-OCT-2007 02:47:55 | Dark | 47.000 | 65 | Lam Vel | 2.2040 | 4400.0 | 94 | 29530 | No |
| 19 | GOM_TRA_1PNPDE20071024_025050_000000402062_00419_29531_7554.N1 | 24-OCT-2007 02:50:50 | Dark | 39.500 | 46 | Del Vel | 1.9540 | 10600. | 79 | 29531 | No |
| 20 | GOM_TRA_1PNPDE20071024_025242_000000372062_00419_29531_7555.N1 | 24-OCT-2007 02:52:42 | Dark | 36.500 | 29 | Bet Car | 1.6720 | 10200. | 73 | 29531 | No |
| 21 | GOM_TRA_1PNPDE20071024_030344_000000392062_00419_29531_7556.N1 | 24-OCT-2007 03:03:44 | Dark | 38.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 77 | 29531 | No |
| 22 | GOM_TRA_1PNPDE20071024_030509_000000462062_00419_29531_7557.N1 | 24-OCT-2007 03:05:09 | Dark | 46.000 | 9 | Alp Eri | 0.45300 | 24000. | 92 | 29531 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 23 | GOM_TRA_1PNPDE20071024_031634_000000412062_00419_29531_7558.N1 | 24-OCT-2007 03:16:34 | Straylight | 41.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 82 | 29531 | No |
| 24 | GOM_TRA_1PNPDE20071024_032604_000000352062_00419_29531_7559.N1 | 24-OCT-2007 03:26:04 | Bright | 34.500 | 140 | 88Gam Peg | 2.8340 | 26000. | 69 | 29531 | No |
| 25 | GOM_TRA_1PNPDE20071024_032958_000000372062_00419_29531_7560.N1 | 24-OCT-2007 03:29:58 | Bright | 37.000 | 58 | 21Alp And | 2.0730 | 11000. | 74 | 29531 | No |
| 26 | GOM_TRA_1PNPDE20071024_033157_000000382062_00419_29531_7561.N1 | 24-OCT-2007 03:31:57 | Bright | 37.500 | 53 | 43Bet And | 2.0480 | 3300.0 | 75 | 29531 | No |
| 27 | GOM_TRA_1PNPDE20071024_033742_000000362062_00419_29531_7562.N1 | 24-OCT-2007 03:37:42 | Bright | 36.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 72 | 29531 | No |
| 28 | GOM_TRA_1PNPDE20071024_033859_000000372062_00419_29531_7563.N1 | 24-OCT-2007 03:38:59 | Bright | 37.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 74 | 29531 | No |
| 29 | GOM_TRA_1PNPDE20071024_034655_000000362062_00419_29531_7564.N1 | 24-OCT-2007 03:46:55 | Bright | 36.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 72 | 29531 | No |
| 30 | GOM_TRA_1PNPDE20071024_035021_000000372062_00419_29531_7706.N1 | 24-OCT-2007 03:50:21 | Bright | 37.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 74 | 29531 | No |
| 31 | GOM_TRA_1PNPDE20071024_035509_000000372062_00419_29531_7707.N1 | 24-OCT-2007 03:55:09 | Bright | 37.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 74 | 29531 | No |
| 32 | GOM_TRA_1PNPDE20071024_035644_000000372062_00419_29531_7708.N1 | 24-OCT-2007 03:56:44 | Bright | 37.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 74 | 29531 | No |
| 33 | GOM_TRA_1PNPDE20071024_040016_000000372062_00419_29531_7709.N1 | 24-OCT-2007 04:00:16 | Bright | 36.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 73 | 29531 | No |
| 34 | GOM_TRA_1PNPDE20071024_040715_000000352062_00419_29531_7710.N1 | 24-OCT-2007 04:07:15 | Bright | 34.500 | 96 | 68Del Leo | 2.5600 | 9300.0 | 69 | 29531 | No |
| 35 | GOM_TRA_1PNPDE20071024_042652_000000402062_00419_29531_7711.N1 | 24-OCT-2007 04:26:52 | Dark | 39.500 | 113 | Mu Vel | 2.6920 | 5000.0 | 79 | 29531 | No |
| 36 | GOM_TRA_1PNPDE20071024_042832_000000492062_00419_29531_7712.N1 | 24-OCT-2007 04:28:32 | Dark | 48.500 | 65 | Lam Vel | 2.2040 | 4400.0 | 97 | 29531 | No |
| 37 | GOM_TRA_1PNPDE20071024_043127_000000432062_00420_29532_7713.N1 | 24-OCT-2007 04:31:27 | Dark | 42.500 | 46 | Del Vel | 1.9540 | 10600. | 85 | 29532 | No |
| 38 | GOM_TRA_1PNPDE20071024_043318_000000402062_00420_29532_7714.N1 | 24-OCT-2007 04:33:18 | Dark | 39.500 | 29 | Bet Car | 1.6720 | 10200. | 79 | 29532 | No |
| 39 | GOM_TRA_1PNPDE20071024_044420_000000362062_00420_29532_7715.N1 | 24-OCT-2007 04:44:20 | Dark | 35.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 71 | 29532 | No |
| 40 | GOM_TRA_1PNPDE20071024_044545_000000512062_00420_29532_7716.N1 | 24-OCT-2007 04:45:45 | Dark | 50.500 | 9 | Alp Eri | 0.45300 | 24000. | 101 | 29532 | No |
| 41 | GOM_TRA_1PNPDE20071024_045711_000000432062_00420_29532_7717.N1 | 24-OCT-2007 04:57:11 | Straylight | 42.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 85 | 29532 | No |
| 42 | GOM_TRA_1PNPDE20071024_050640_000000362062_00420_29532_7718.N1 | 24-OCT-2007 05:06:40 | Bright | 36.000 | 140 | 88Gam Peg | 2.8340 | 26000. | 72 | 29532 | No |
| 43 | GOM_TRA_1PNPDE20071024_051034_000000372062_00420_29532_7719.N1 | 24-OCT-2007 05:10:34 | Bright | 36.500 | 58 | 21Alp And | 2.0730 | 11000. | 73 | 29532 | No |
| 44 | GOM_TRA_1PNPDE20071024_051233_000000372062_00420_29532_7720.N1 | 24-OCT-2007 05:12:33 | Bright | 37.000 | 53 | 43Bet And | 2.0480 | 3300.0 | 74 | 29532 | No |
| 45 | GOM_TRA_1PNPDE20071024_051818_000000382062_00420_29532_7721.N1 | 24-OCT-2007 05:18:18 | Bright | 37.500 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 75 | 29532 | No |
| 46 | GOM_TRA_1PNPDE20071024_051935_000000382062_00420_29532_7722.N1 | 24-OCT-2007 05:19:35 | Bright | 37.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 75 | 29532 | No |
| 47 | GOM_TRA_1PNPDE20071024_052731_000000402062_00420_29532_7723.N1 | 24-OCT-2007 05:27:31 | Bright | 40.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 80 | 29532 | No |
| 48 | GOM_TRA_1PNPDE20071024_053057_000000082062_00420_29532_7724.N1 | 24-OCT-2007 05:30:57 | Straylight | 7.5000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 15 | 29532 | No |

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



4. Overview of dark signal processing per product

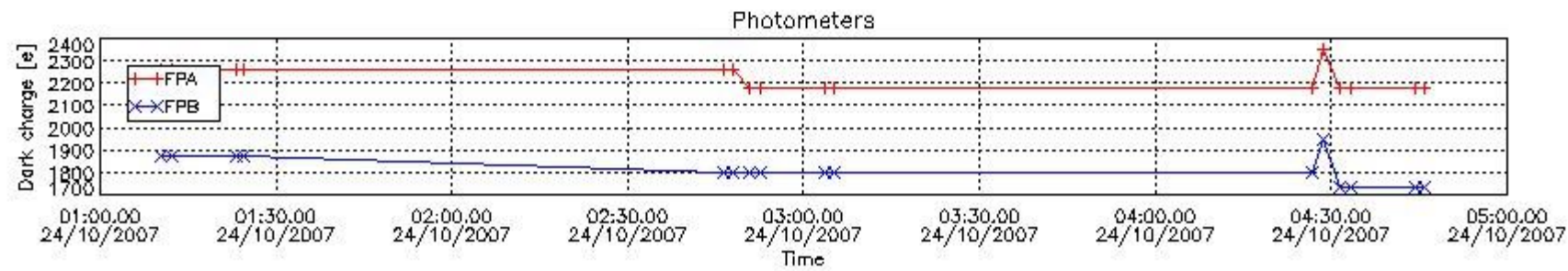
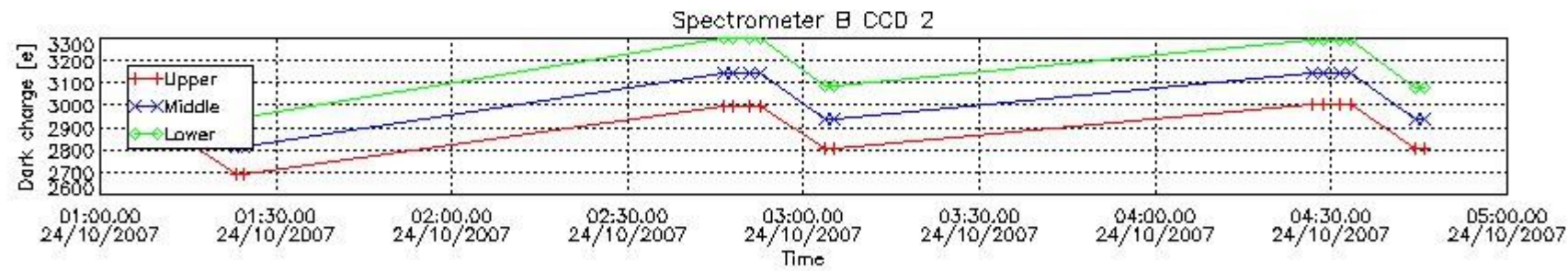
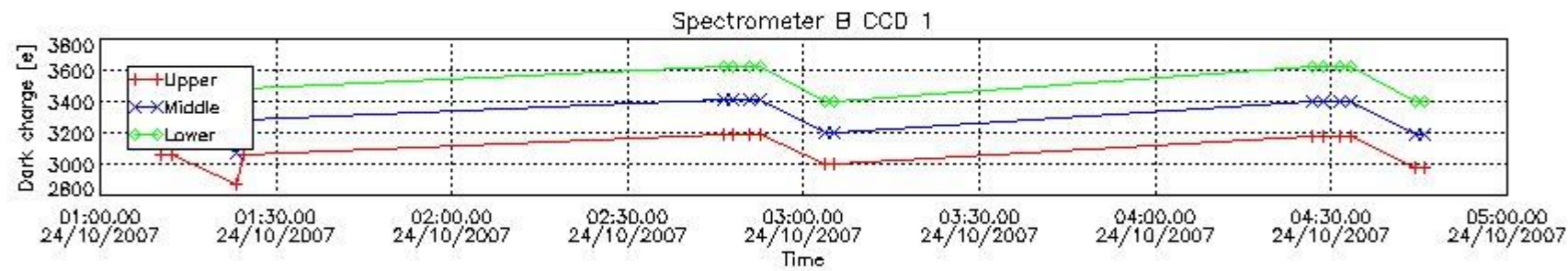
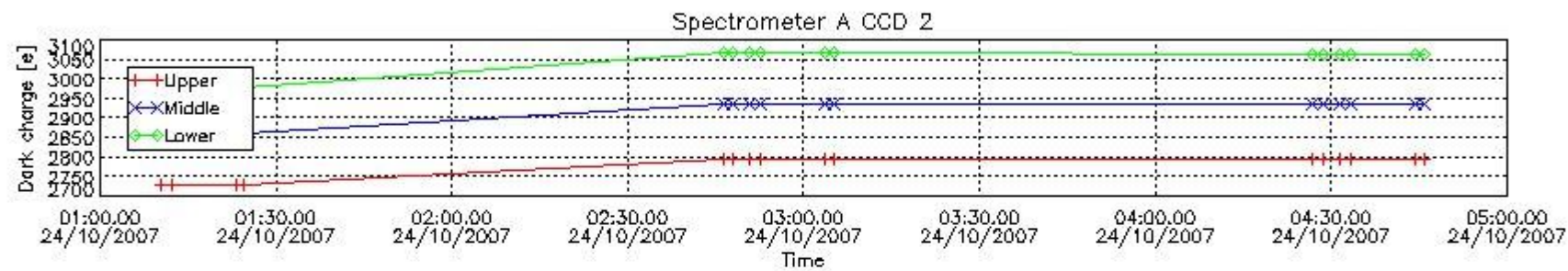
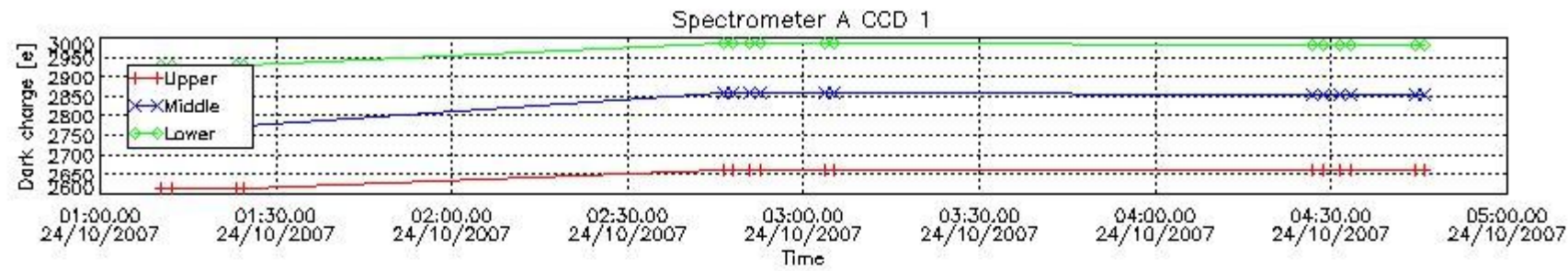
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

| Product name | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20071024_011013_000000422062_00418_29530_7396.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_011206_000000382062_00418_29530_7397.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_012308_000000372062_00418_29530_7398.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_012433_000000392062_00418_29530_7399.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_013558_000000412062_00418_29530_7400.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_014528_000000352062_00418_29530_7401.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_014922_000000362062_00418_29530_7402.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_015121_000000392062_00418_29530_7403.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_015706_000000362062_00418_29530_7404.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_015823_000000372062_00418_29530_7405.N1 | DC map used |
| GOM_TRA_1PNPDE20071024_020619_000000342062_00418_29530_7406.N1 | DC map used |

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



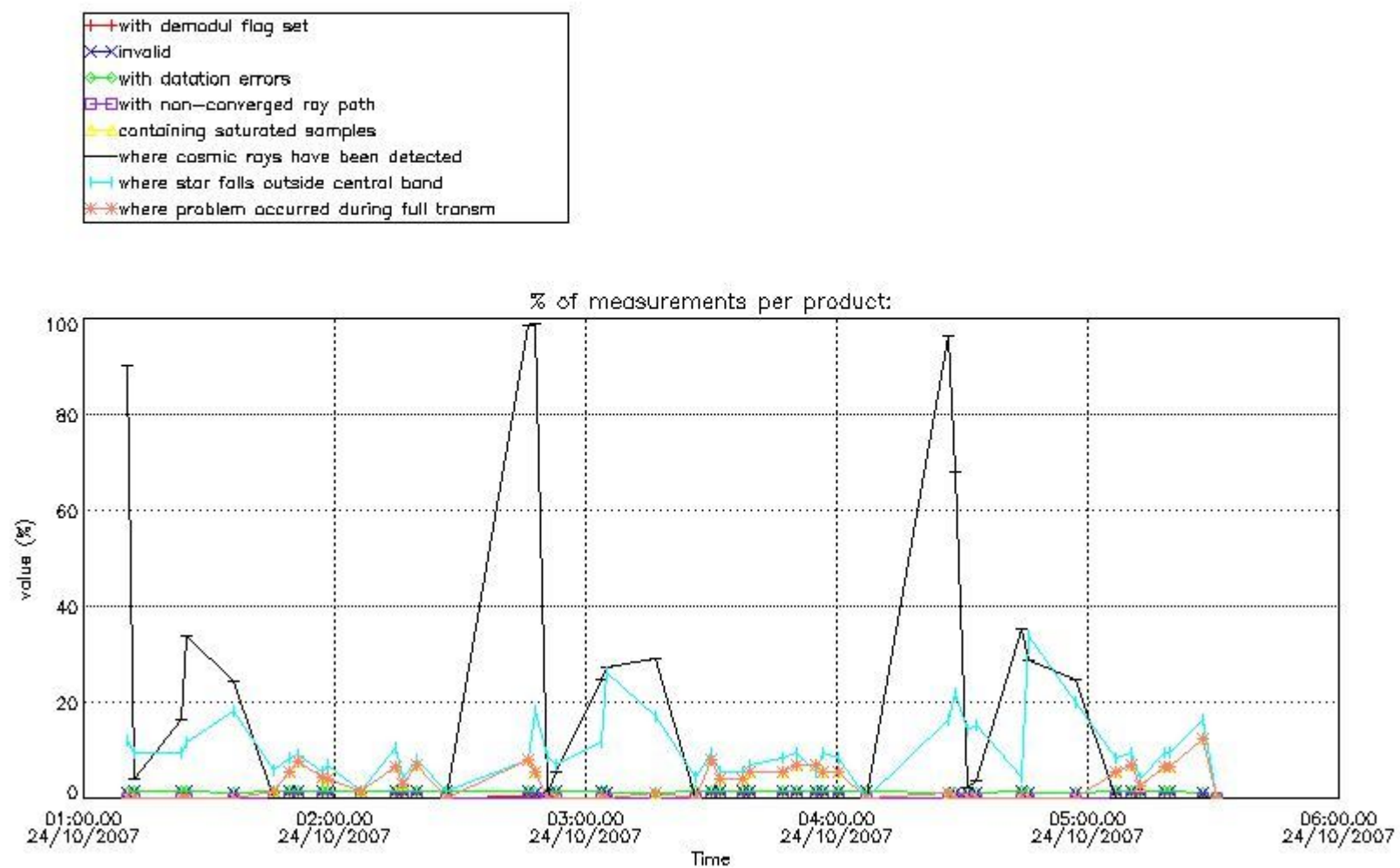
5. Demodulation flag and quality information monitoring

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.

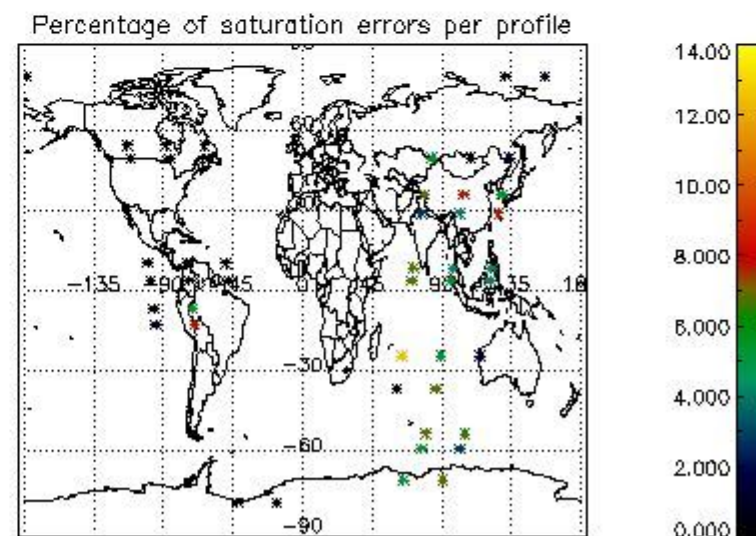
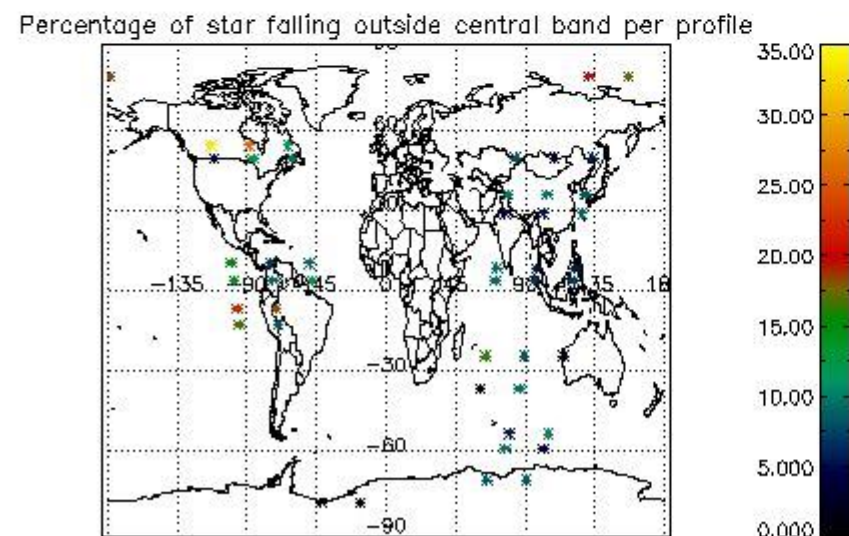
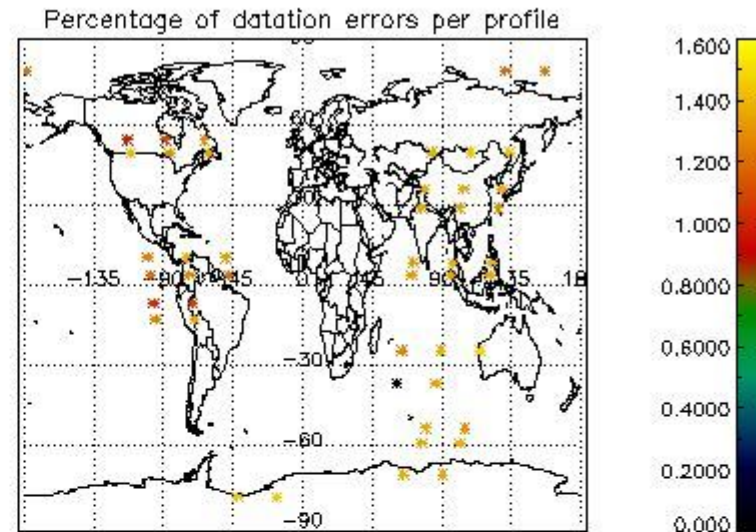
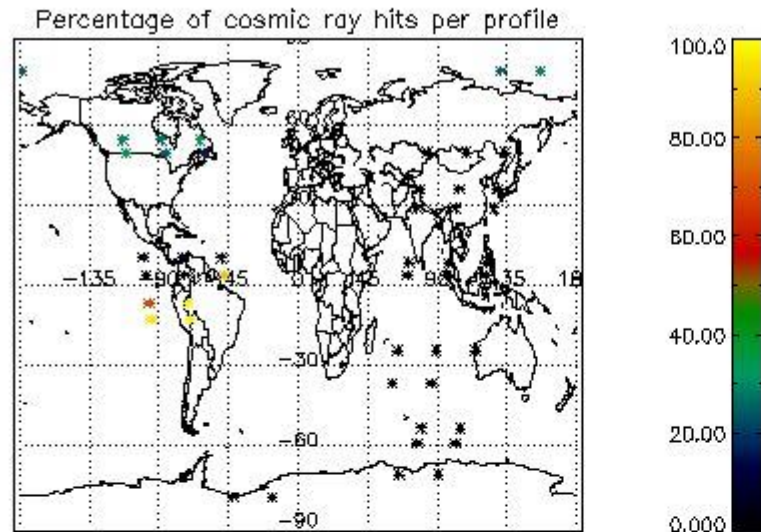
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 14.8936 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



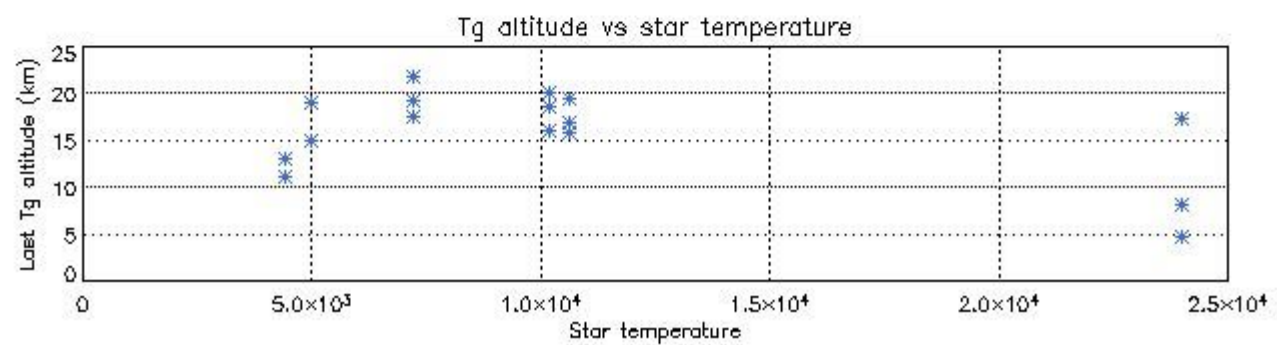
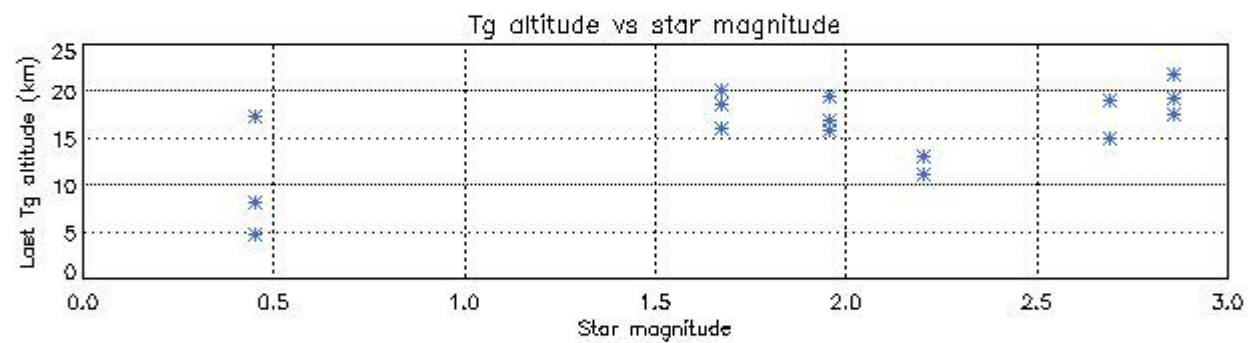
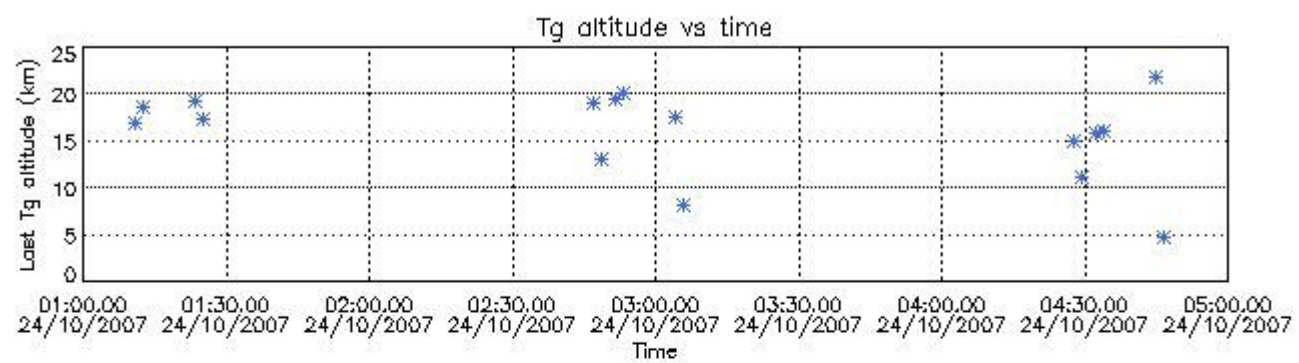
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.856 | 20.746 | NaN |
| St. deviation: | 4.5788 | 2.3853 | NaN |
| Maximum: | 21.771 | 25.895 | NaN |
| Minimum: | 4.7475 | 15.467 | NaN |
| Number of data: | 16.000 | 27.000 | NaN |

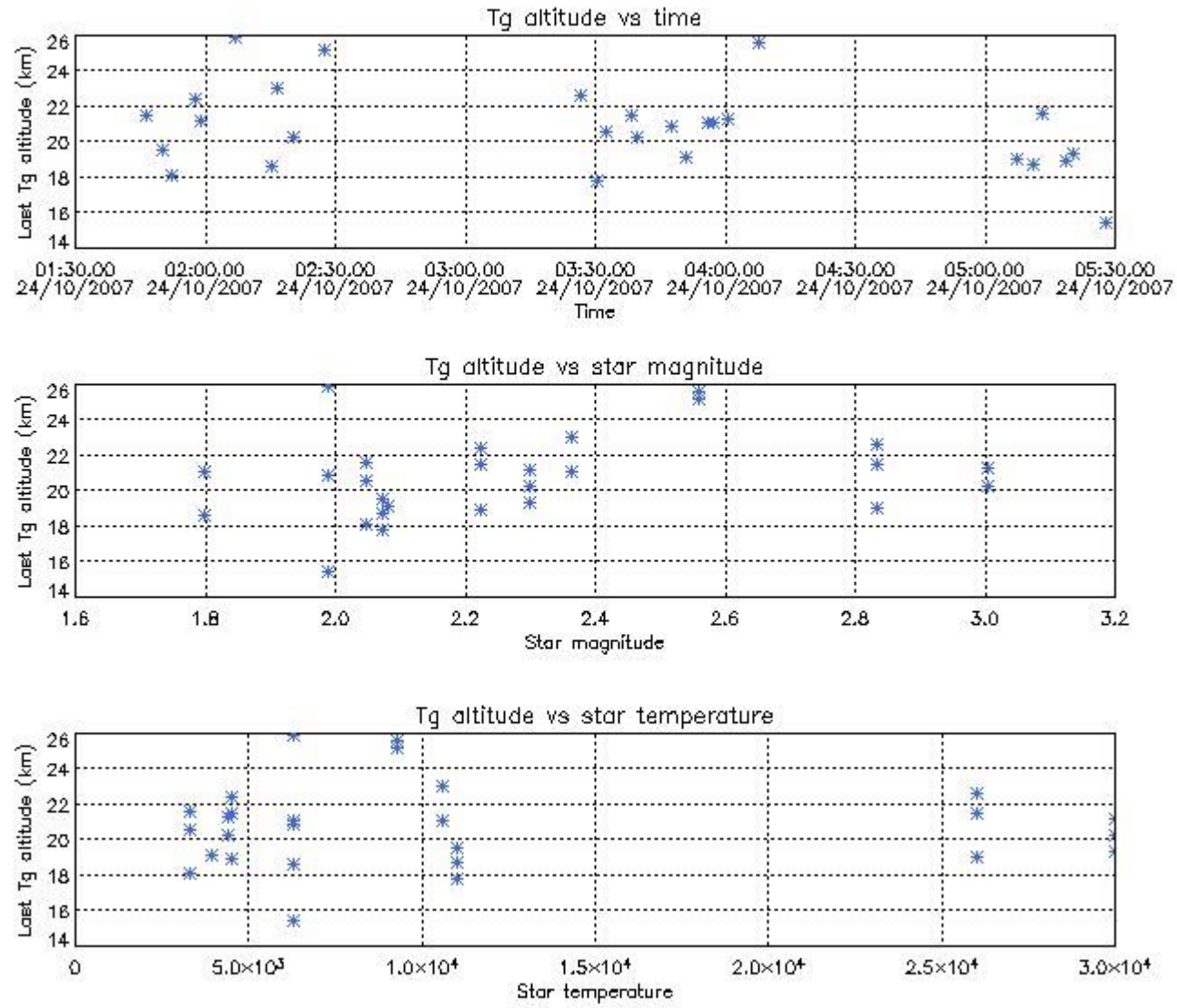
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

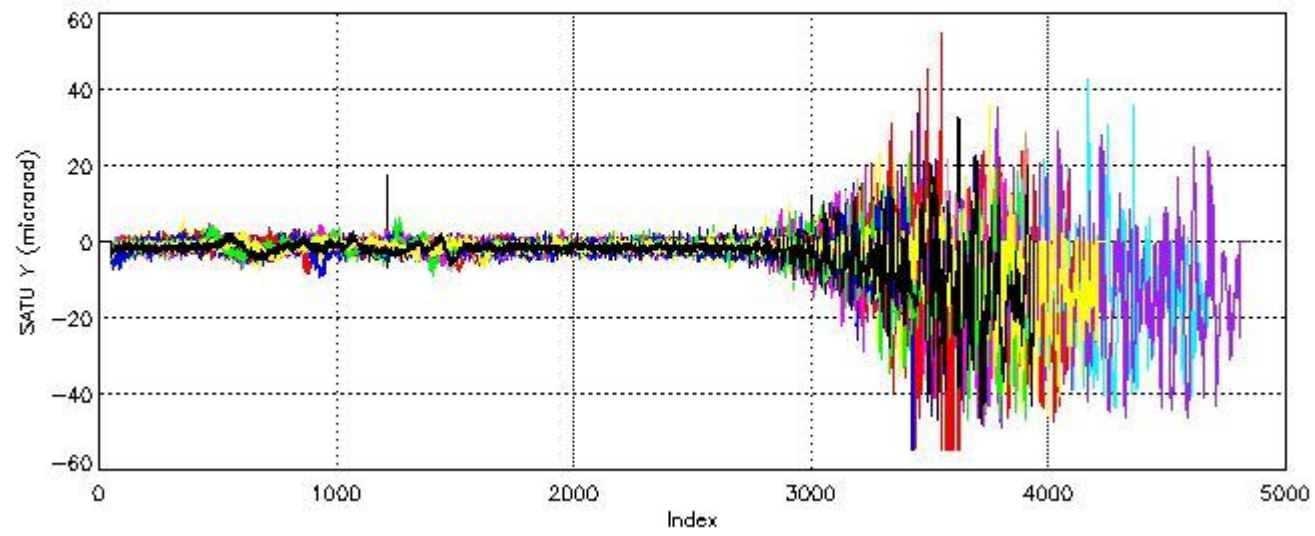
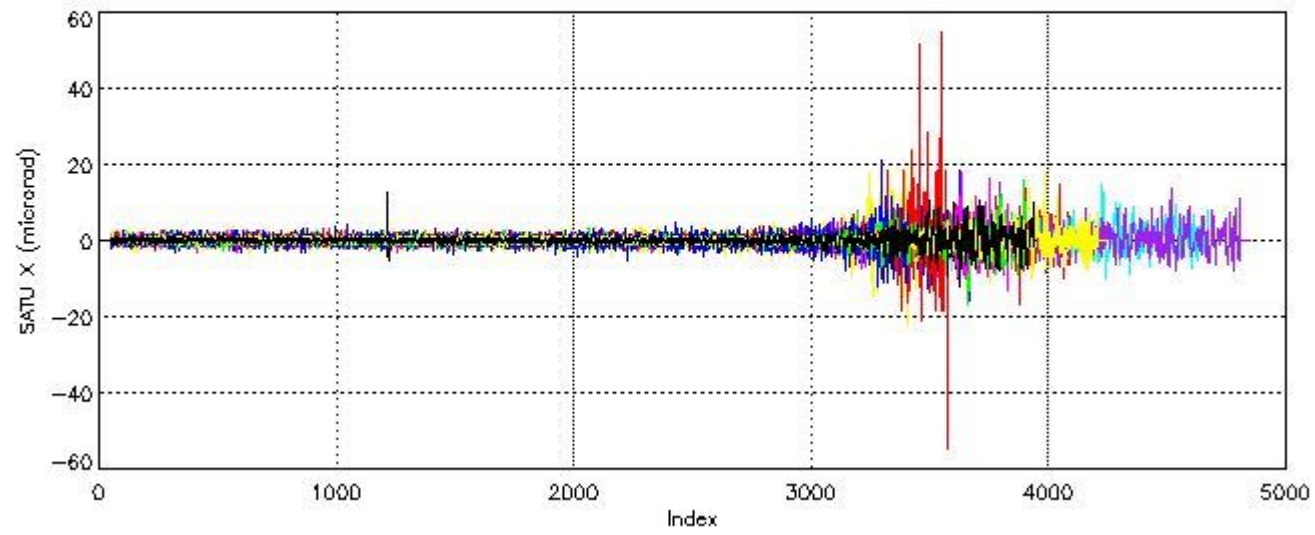


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.10186 | -1.2495 | 0.056953 | -1.3675 |
| St. deviation: | 0.48825 | 1.2594 | 0.71966 | 1.5102 |
| Maximum: | 3.3000 | 4.6000 | 5.5000 | 6.2000 |
| Minimum: | -3.2000 | -7.2000 | -5.9000 | -10.600 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 14150. | 14150. | 22150. | 22150. |
|-----------------|--------|--------|--------|--------|

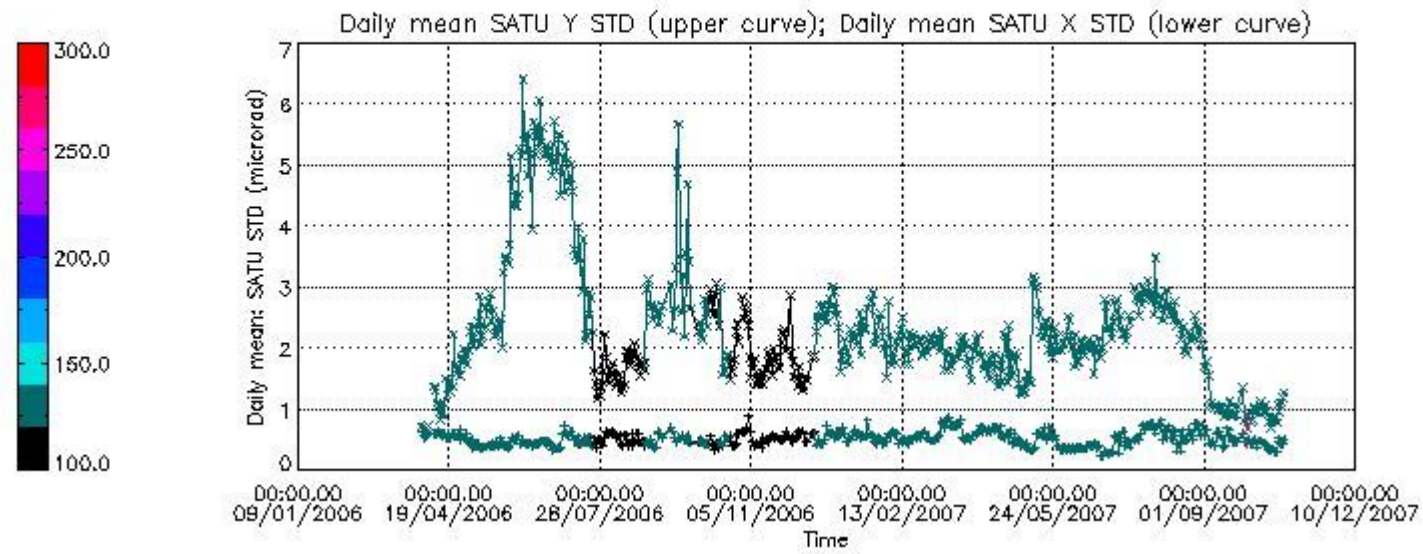
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

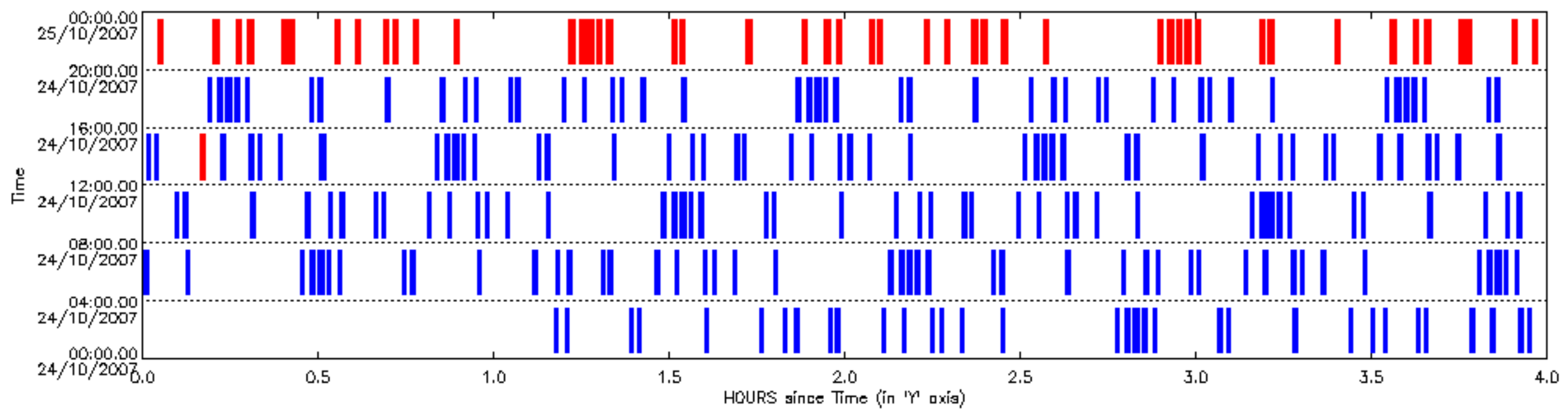
Lower curve: STD of SATU X axis

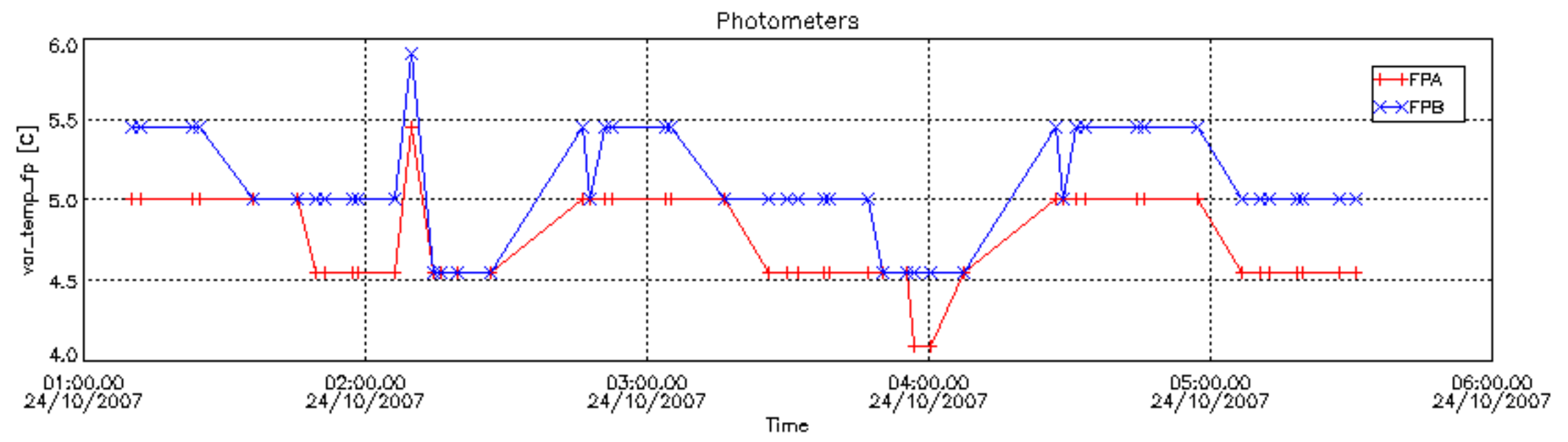
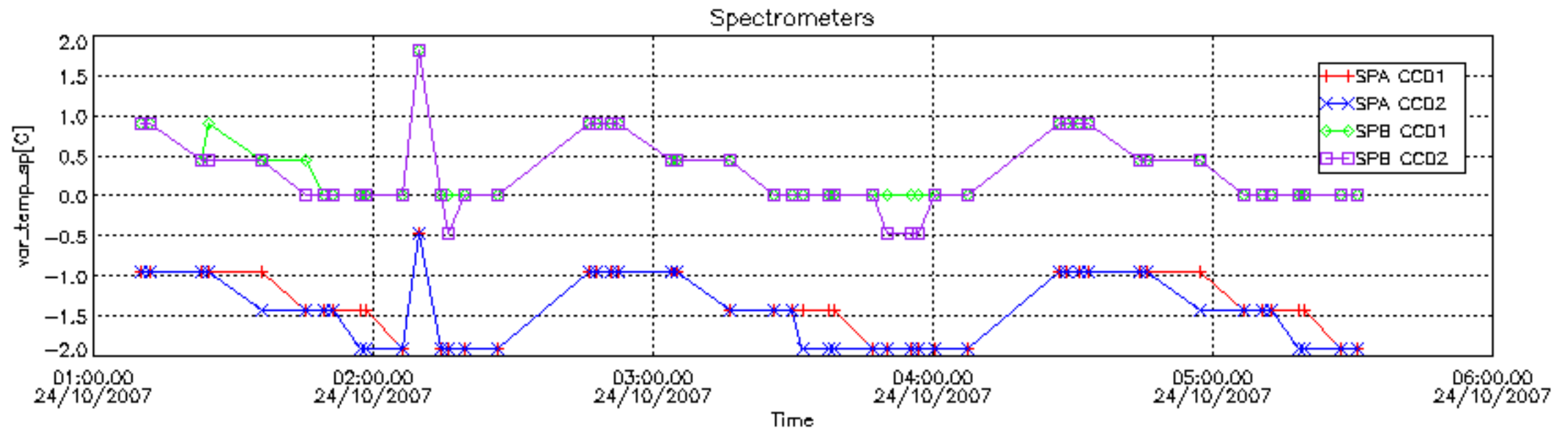


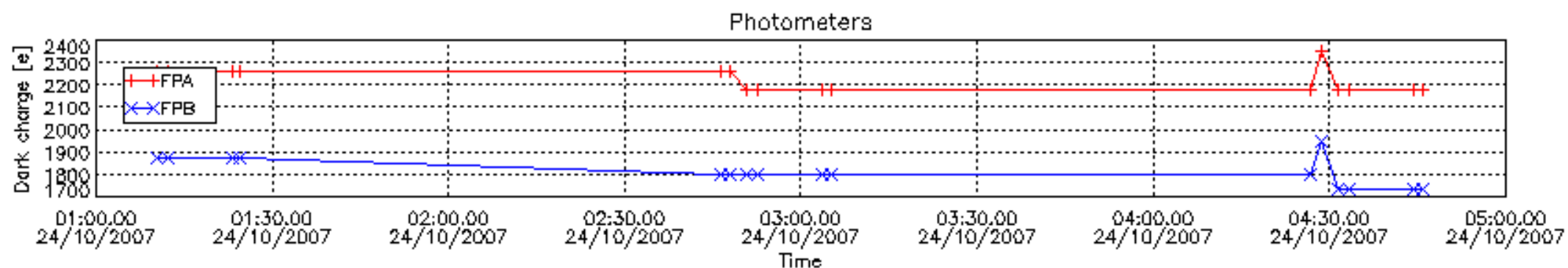
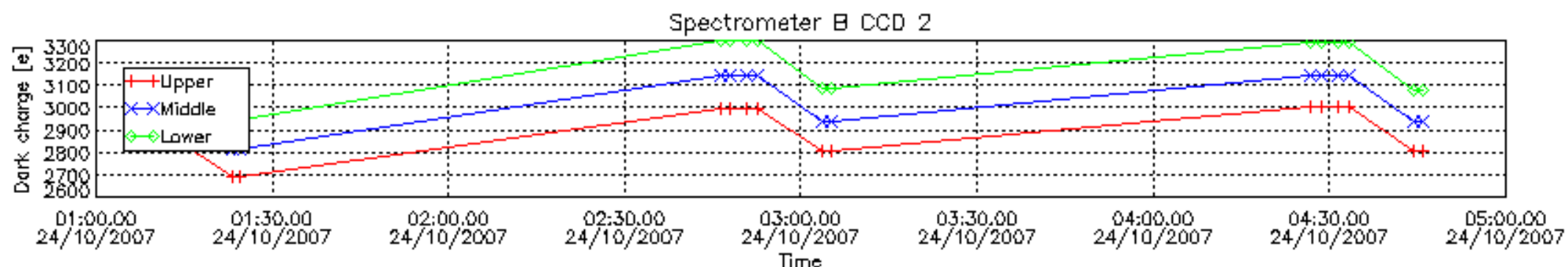
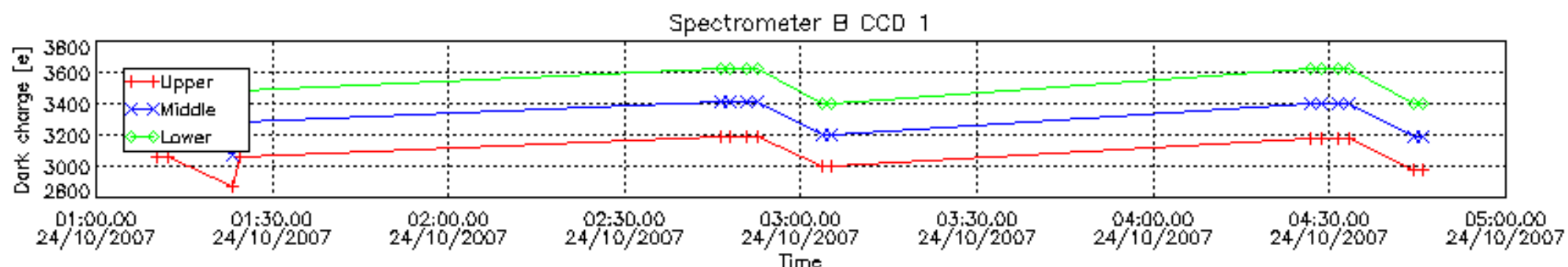
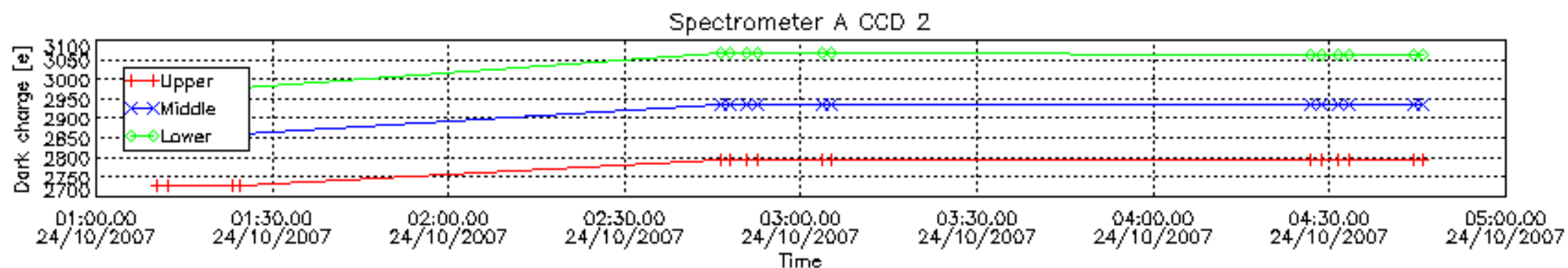
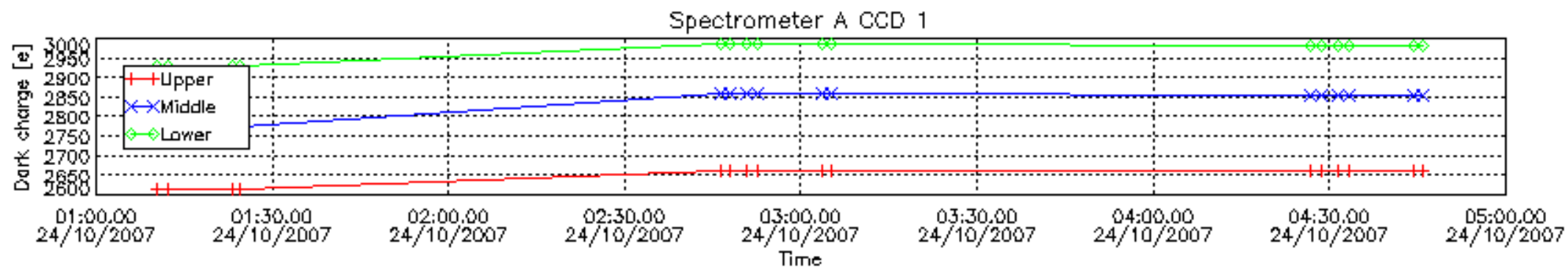
8. Auxiliary Data Files used for the production reported in section 2.4

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.

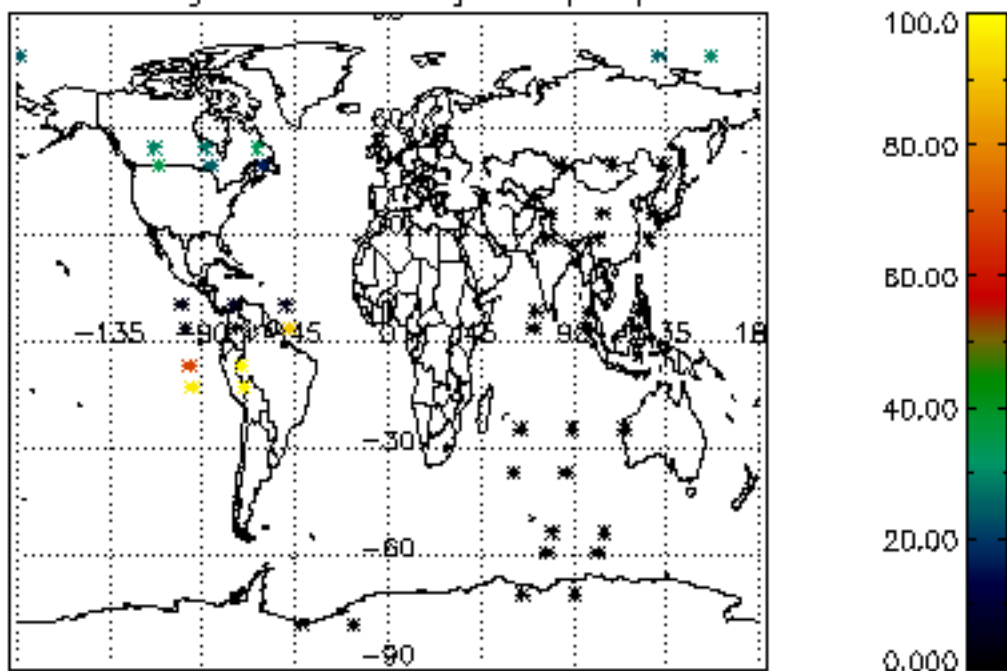
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|---------------------------|--|--------------------|-------------------------|
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| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000 | 1 | 24-OCT-2007 01:10:13 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 24-OCT-2007 01:10:13 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 24-OCT-2007 01:10:13 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 24-OCT-2007 01:10:13 |
| ECMWF_FILE | AUX_ECF_AXNECM20071023_115219_20071023_210000_20071024_090000 | 1 | 24-OCT-2007 01:10:13 |
| ECMWF_FILE | AUX_ECF_AXNECM20071023_180300_20071024_030000_20071024_150000 | 30 | 24-OCT-2007 03:50:21 |
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| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071023_230902_000060572062_00416_29528_4417.N1 | 1 | 24-OCT-2007 01:10:13 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071024_005518_000041442062_00417_29529_4418.N1 | 12 | 24-OCT-2007 02:09:45 |
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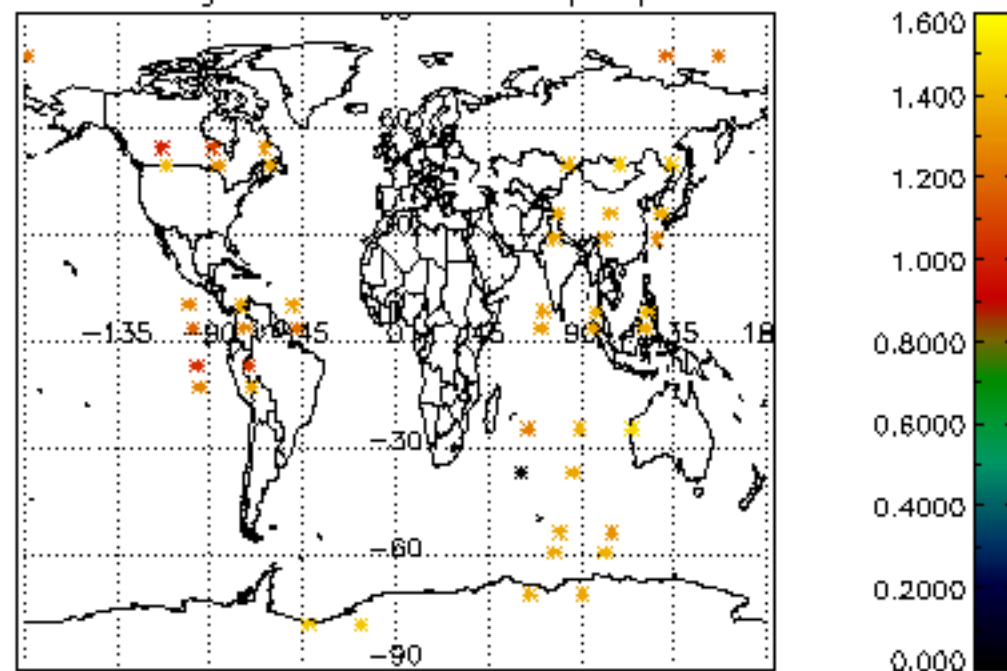




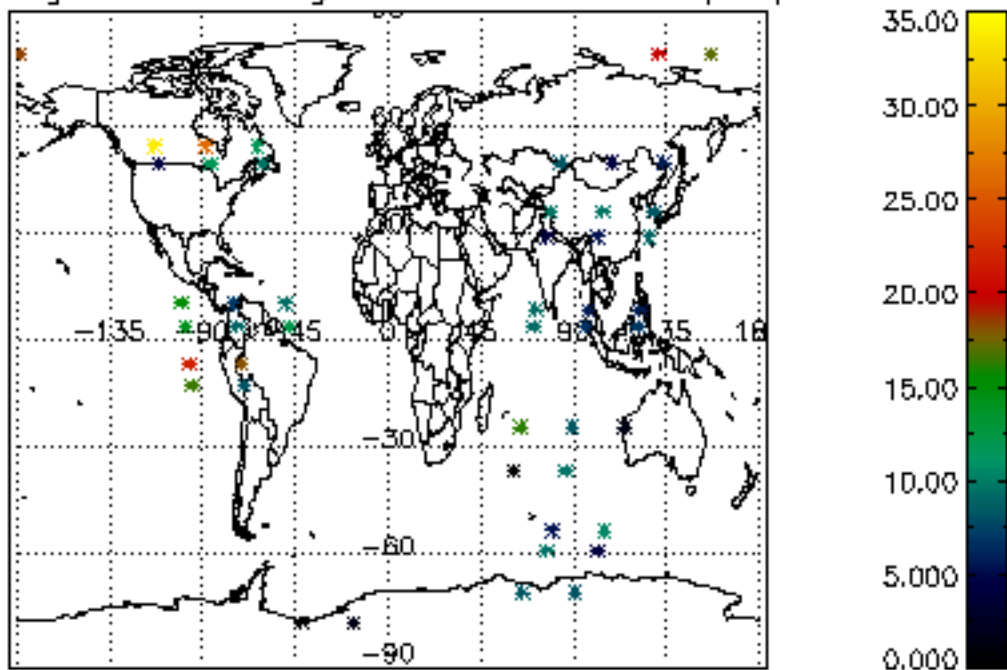
Percentage of cosmic ray hits per profile



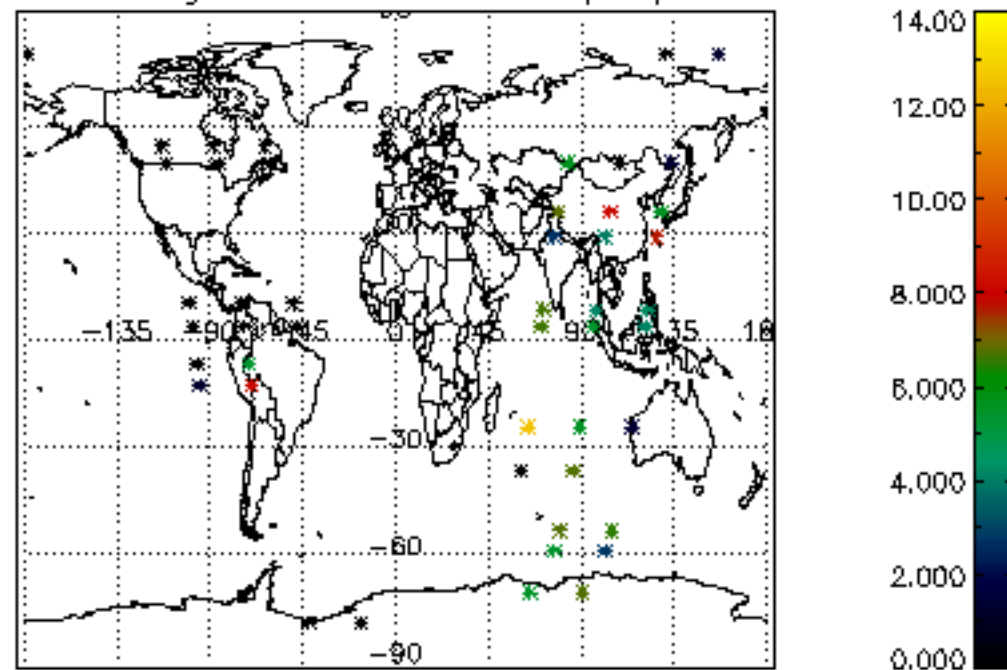
Percentage of datation errors per profile



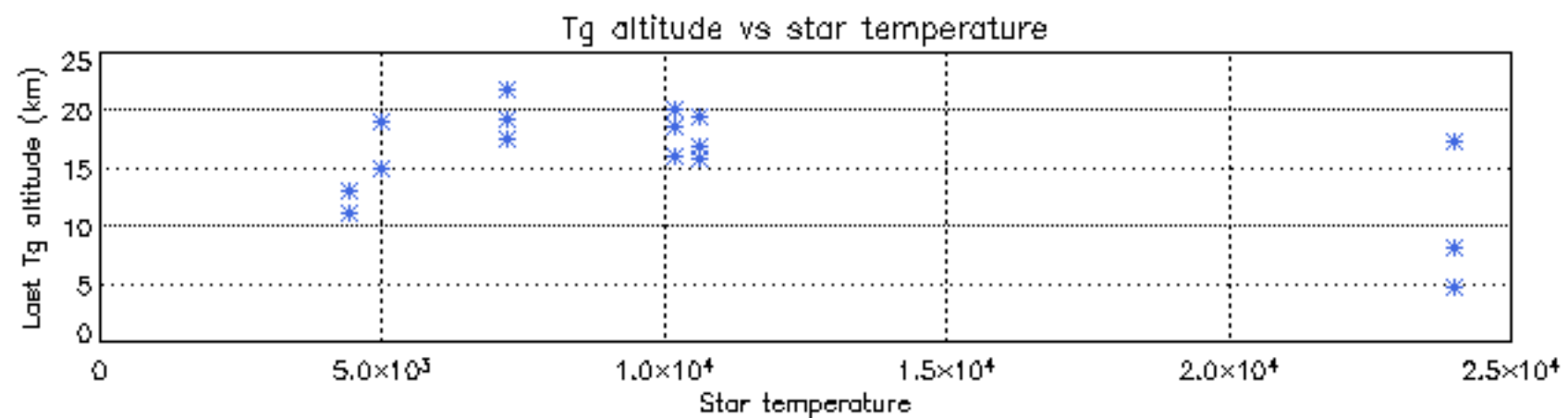
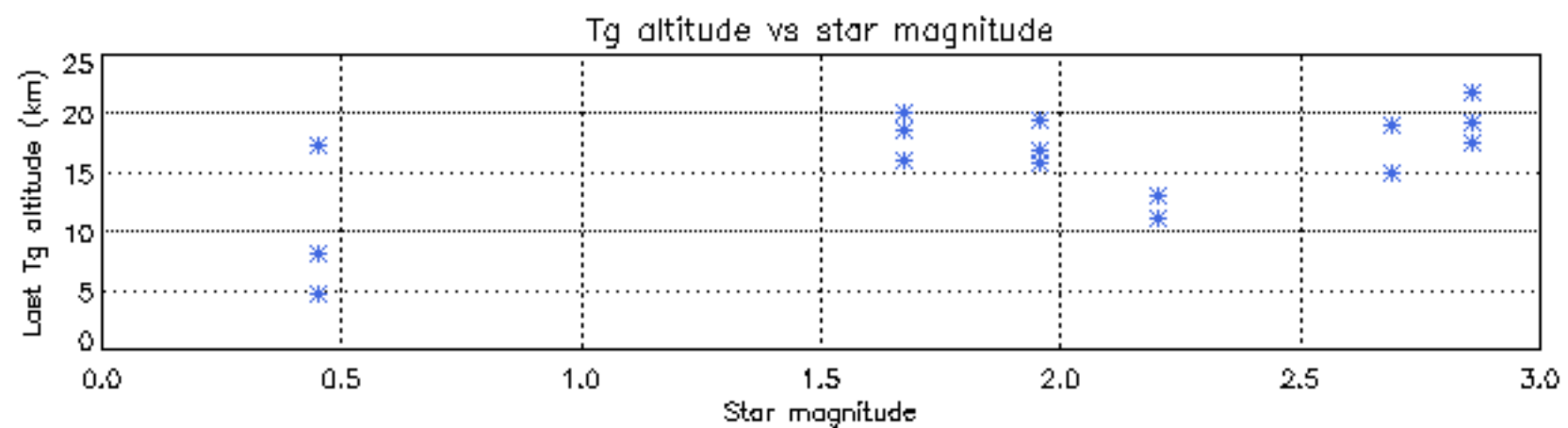
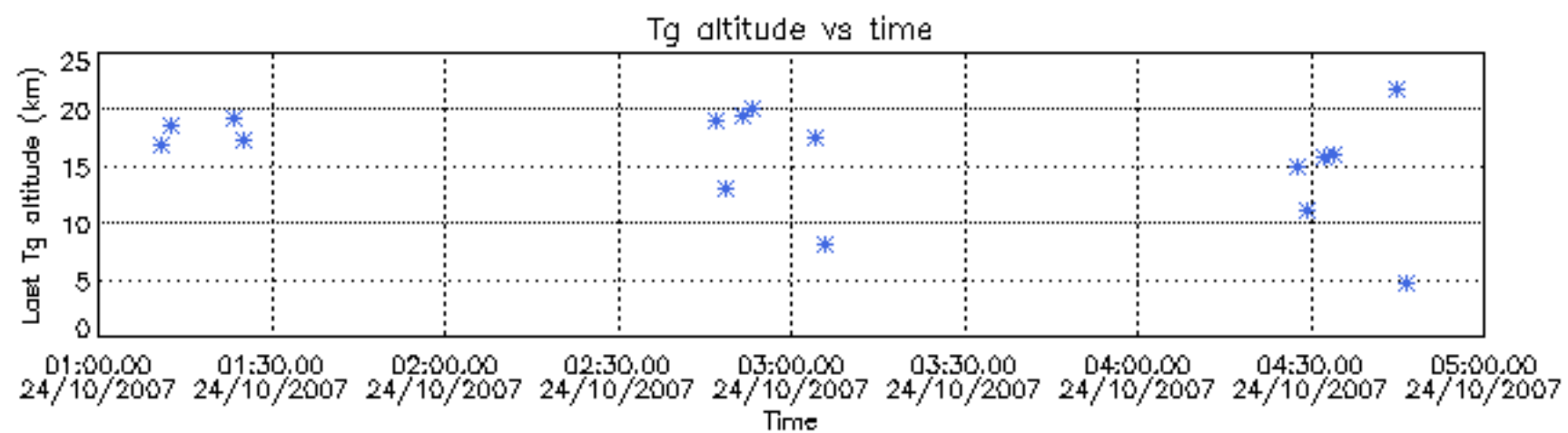
Percentage of star falling outside central band per profile



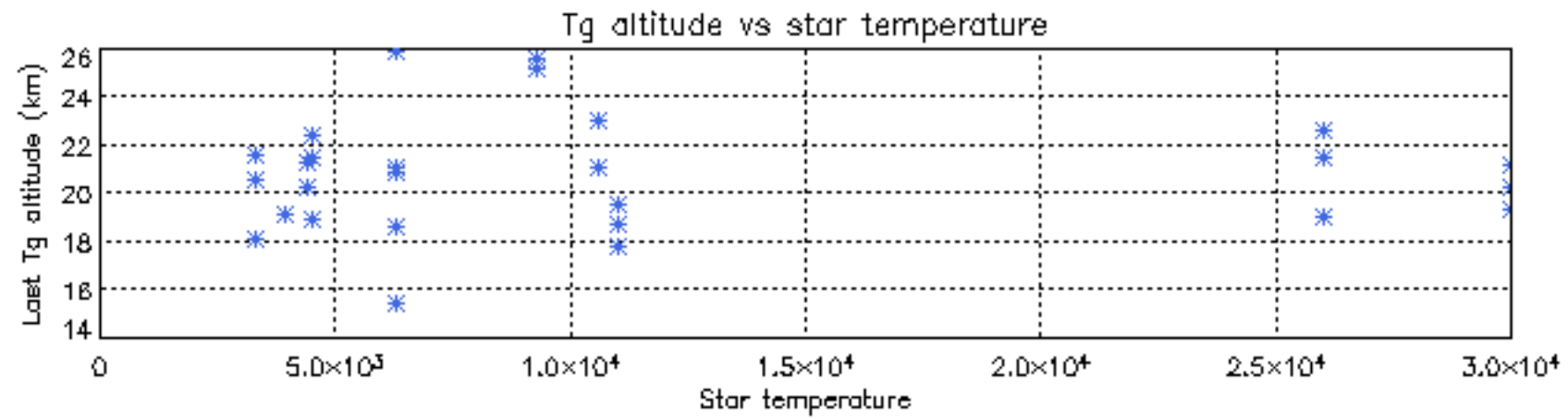
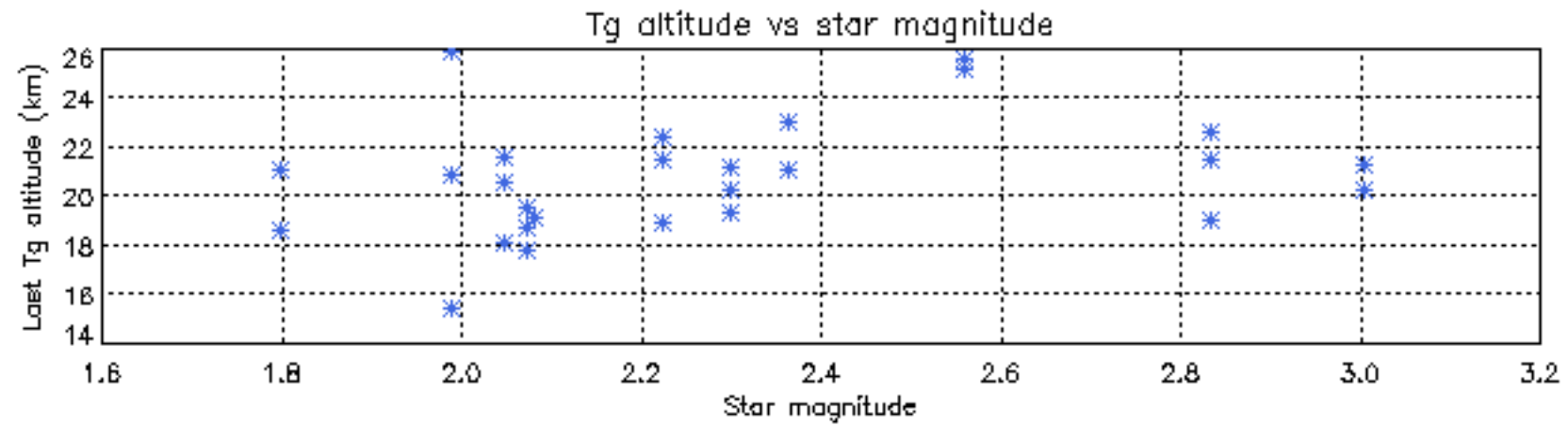
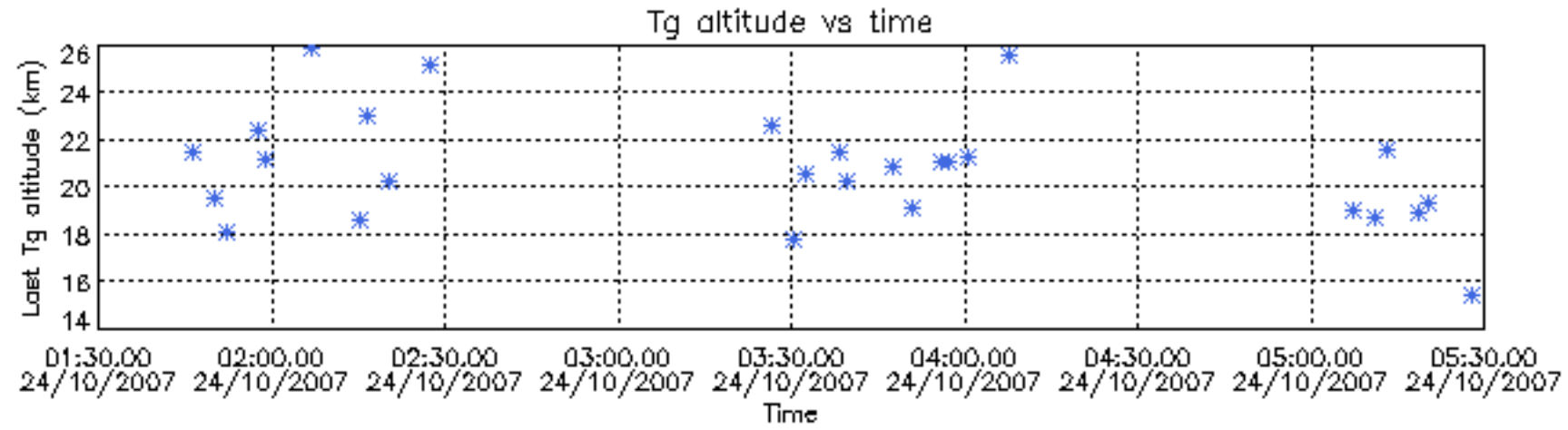
Percentage of saturation errors per profile

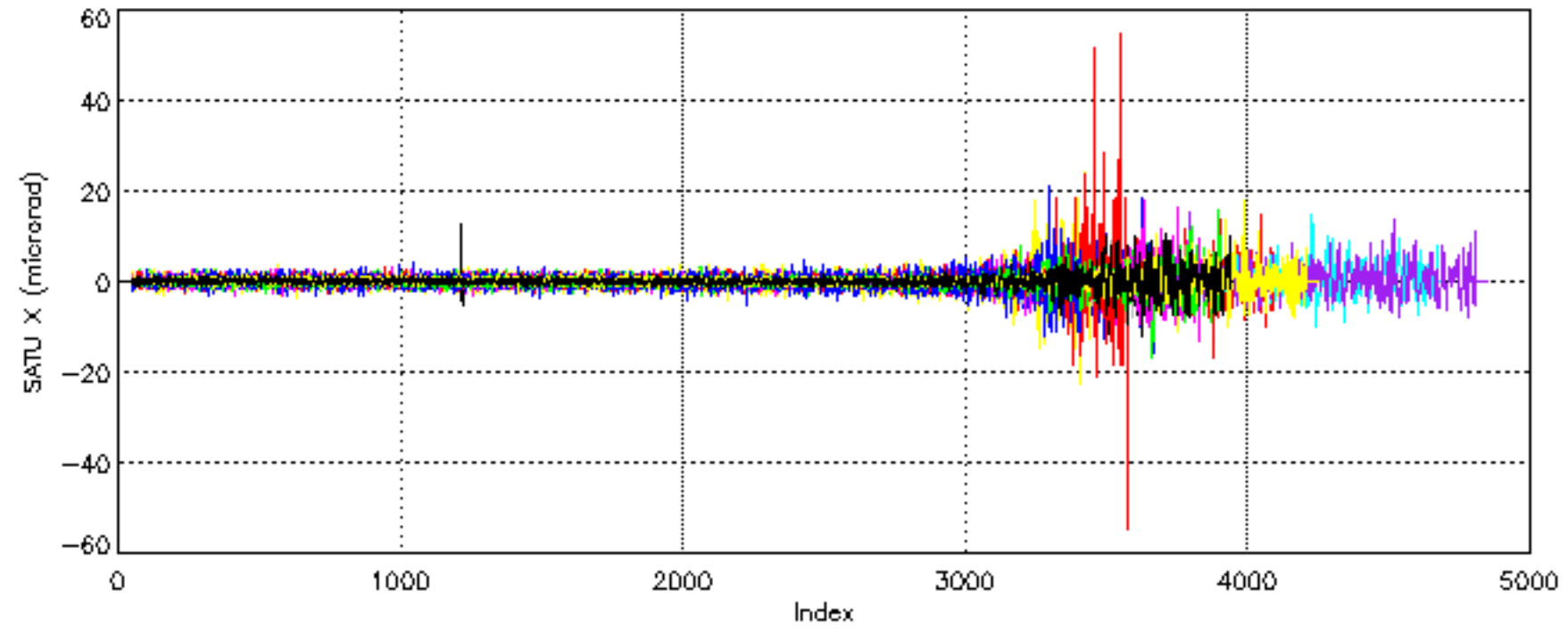


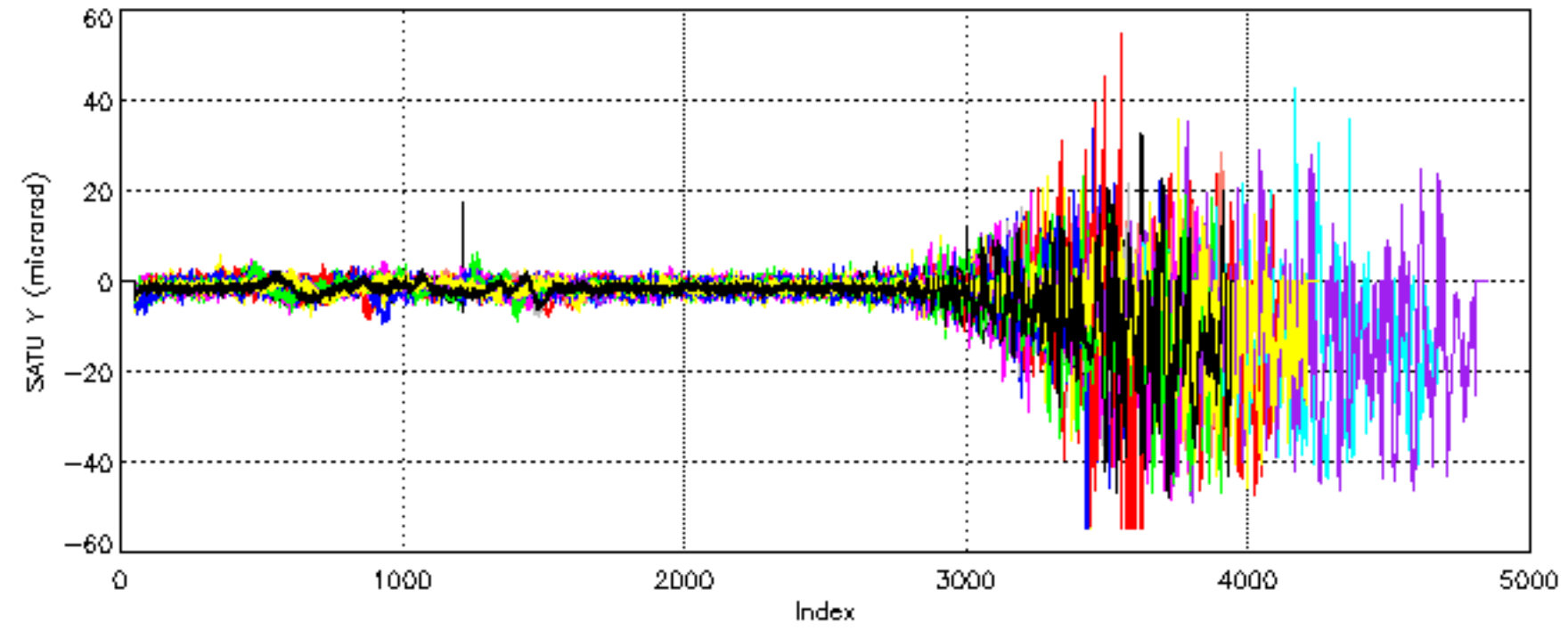
Tangent altitude at which the star is lost

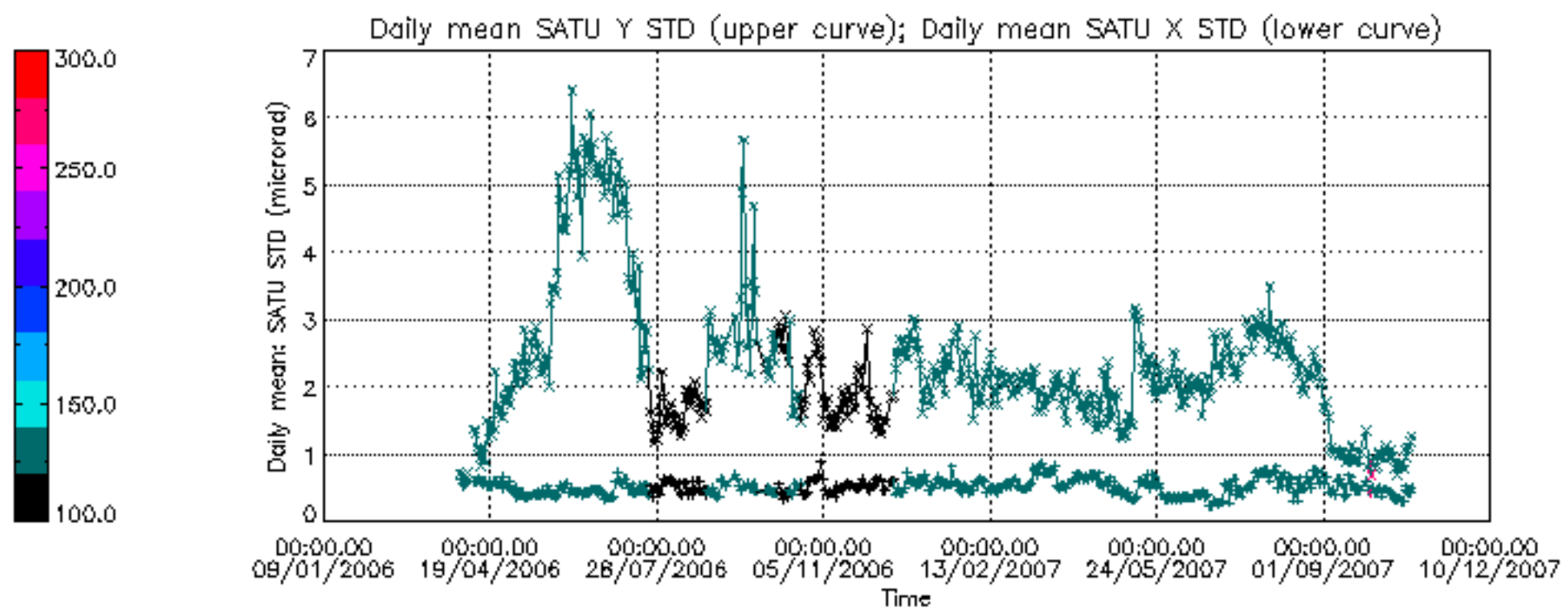


Tangent altitude at which the star is lost









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 2; -290.5; 02-OCT-2007 02:36:22; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29215
 3; -133.6; 02-OCT-2007 02:38:59; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;29215
 4; -35.1; 02-OCT-2007 02:40:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29215
 5; 93.4; 02-OCT-2007 02:42:46; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29216
 6; 177.7; 02-OCT-2007 02:44:10; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29216
 7; 735.6; 02-OCT-2007 02:53:28; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29216

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9; 1144.1; 02-OCT-2007 03:00:17; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29216
10; 1558.8; 02-OCT-2007 03:07:12; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29216
11; 2168.4; 02-OCT-2007 03:17:21; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29216
12; 2386.4; 02-OCT-2007 03:20:59; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29216
13; 2949.2; 02-OCT-2007 03:30:22; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29216
14; 3428.5; 02-OCT-2007 03:38:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29216
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3;-1446.2; 02-OCT-2007 03:57:42; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29216
4; -870.7; 02-OCT-2007 04:07:18; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29216
5; -290.2; 02-OCT-2007 04:16:58; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29216
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7; -34.3; 02-OCT-2007 04:21:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29216
8; 94.1; 02-OCT-2007 04:23:23; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29217
9; 178.4; 02-OCT-2007 04:24:47; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29217
10; 736.0; 02-OCT-2007 04:34:05; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29217
11; 823.7; 02-OCT-2007 04:35:32; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;29217
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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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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
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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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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
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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
 14; 6132.3; 02-OCT-2007 09:25:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29219
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 16; 6773.0; 02-OCT-2007 09:35:54; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29219
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 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
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 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
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 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
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 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
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 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221
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 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
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 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222
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 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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8; 3998.0; 02-OCT-2007 20:33:50; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29226
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7; 827.7; 02-OCT-2007 23:02:12; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29228
8; 1147.2; 02-OCT-2007 23:07:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29228
9; 1560.4; 02-OCT-2007 23:14:24; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29228
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9; 5168.2; 02-OCT-2007 15:51:32; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29223
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 3; 2168.8; 02-OCT-2007 18:22:45; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29225
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1; -839.5; 07-OCT-2007 01:29:44; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29286
2; -260.2; 07-OCT-2007 01:39:24; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29286
3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

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1; -2122.8; 07-OCT-2007 02:48:57; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29287
2; -2031.4; 07-OCT-2007 02:50:28; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29287
3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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1; -2122.7; 07-OCT-2007 04:29:33; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29288
2; -2031.3; 07-OCT-2007 04:31:04; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29288
3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 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
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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1; 30.7; 07-OCT-2007 23:32:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29300
 2; 158.7; 07-OCT-2007 23:34:10; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29300
 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 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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1; -2122.6; 07-OCT-2007 06:10:09; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29289
 2; -2031.2; 07-OCT-2007 06:11:41; Bright; 32.0; 82; 48Bet UMa ; 2.37; 10600;occ; 64; 0;29289
 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289
 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
 8; -64.0; 07-OCT-2007 06:44:28; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29289
 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 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
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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1; 2172.3; 07-OCT-2007 07:21:44; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29290
 2; 2390.3; 07-OCT-2007 07:25:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29290
 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 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
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 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
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290
 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
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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1; 2172.0; 07-OCT-2007 09:02:20; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29291

2; 2390.4; 07-OCT-2007 09:05:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29291
 3; 2917.2; 07-OCT-2007 09:14:45; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29291
 4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
 5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
 6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
 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
 9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
 10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
 11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
 12; 5877.3; 07-OCT-2007 10:04:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;29291
 13; 5972.8; 07-OCT-2007 10:05:40; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29291
 14; 6060.1; 07-OCT-2007 10:07:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29291
 15; 6188.2; 07-OCT-2007 10:09:16; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29291
 16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;29291
 17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
 18; 6886.8; 07-OCT-2007 10:20:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29291
 19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
 20; 7605.3; 07-OCT-2007 10:32:53; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29291

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1; 1611.9; 07-OCT-2007 10:33:35; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 85;29292
 2; 2171.8; 07-OCT-2007 10:42:55; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;29292
 3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
 4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
 5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
 6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
 7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
 8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
 9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
 10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
 11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
 12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
 13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
 14; 5878.0; 07-OCT-2007 11:44:42; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29292
 15; 5973.2; 07-OCT-2007 11:46:17; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29292
 16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
 17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
 18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;29292
 19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
 20; 6887.2; 07-OCT-2007 12:01:31; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29292
 21; 7200.1; 07-OCT-2007 12:06:44; Dark ; 37.0; 84; Alp Phe ; 2.40; 4500;occ; 74; 0;29292

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1; 1569.6; 07-OCT-2007 12:13:29; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29293
 2; 2171.8; 07-OCT-2007 12:23:31; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29293
 3; 2390.6; 07-OCT-2007 12:27:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29293
 4; 2916.6; 07-OCT-2007 12:35:56; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29293
 5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
 6; 3427.5; 07-OCT-2007 12:44:27; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29293
 7; 3913.6; 07-OCT-2007 12:52:33; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29293
 8; 4005.1; 07-OCT-2007 12:54:05; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29293
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 11; 4224.0; 22-OCT-2007 13:26:28; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29508
 12; 4700.7; 22-OCT-2007 13:34:25; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29508
 13; 5814.7; 22-OCT-2007 13:52:59; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29508
 14; 5905.3; 22-OCT-2007 13:54:29; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;29508
 15; 5989.5; 22-OCT-2007 13:55:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29508
 16; 6082.7; 22-OCT-2007 13:57:27; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29508
 17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
 18; 6447.3; 22-OCT-2007 14:03:31; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29508
 19; 6864.7; 22-OCT-2007 14:10:28; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29508
 20; 6949.9; 22-OCT-2007 14:11:54; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;29508
 21; 7123.2; 22-OCT-2007 14:14:47; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29508

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 2; 2171.4; 22-OCT-2007 14:32:51; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29509
 3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
 4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
 5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
 6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
 7; 3425.2; 22-OCT-2007 14:53:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29509
 8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509
 9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
 10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
 11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
 12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
 13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
 14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
 15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509
 16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
 17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
 18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
 19; 6864.8; 22-OCT-2007 15:51:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29509
 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
 21; 7123.6; 22-OCT-2007 15:55:23; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29509

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 2; 2171.7; 22-OCT-2007 16:13:27; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29510
 3; 2405.9; 22-OCT-2007 16:17:22; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29510
 4; 2531.0; 22-OCT-2007 16:19:27; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29510
 5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
 6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
 7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
 8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510
 9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
 10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

11; 4224.3; 22-OCT-2007 16:47:40; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29510
 12; 4640.9; 22-OCT-2007 16:54:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29510
 13; 5815.4; 22-OCT-2007 17:14:11; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29510
 14; 5906.8; 22-OCT-2007 17:15:43; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29510
 15; 5990.9; 22-OCT-2007 17:17:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29510
 16; 6084.0; 22-OCT-2007 17:18:40; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29510
 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510
 18; 6449.0; 22-OCT-2007 17:24:45; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29510
 19; 6865.2; 22-OCT-2007 17:31:41; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29510
 20; 6950.5; 22-OCT-2007 17:33:06; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29510
 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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 2; 1601.3; 22-OCT-2007 17:44:33; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29511
 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511
 4; 2405.9; 22-OCT-2007 17:57:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29511
 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511
 6; 2873.4; 22-OCT-2007 18:05:45; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29511
 7; 2951.3; 22-OCT-2007 18:07:03; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29511
 8; 3425.0; 22-OCT-2007 18:14:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29511
 9; 3626.6; 22-OCT-2007 18:18:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29511
 10; 3919.7; 22-OCT-2007 18:23:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29511
 11; 4014.7; 22-OCT-2007 18:24:46; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29511
 12; 4224.2; 22-OCT-2007 18:28:16; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;29511
 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511
 14; 5815.7; 22-OCT-2007 18:54:47; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29511
 15; 5907.5; 22-OCT-2007 18:56:19; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29511
 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511
 17; 6084.5; 22-OCT-2007 18:59:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29511
 18; 6202.5; 22-OCT-2007 19:01:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29511
 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511
 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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 2; 914.7; 22-OCT-2007 19:13:42; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29512
 3; 1088.4; 22-OCT-2007 19:16:36; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29512
 4; 1601.4; 22-OCT-2007 19:25:09; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29512
 5; 2171.9; 22-OCT-2007 19:34:40; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;29512
 6; 2406.0; 22-OCT-2007 19:38:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29512
 7; 2530.5; 22-OCT-2007 19:40:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29512
 8; 2873.2; 22-OCT-2007 19:46:21; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;29512
 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512
 10; 3424.9; 22-OCT-2007 19:55:33; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;29512
 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512
 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
 15; 4641.3; 22-OCT-2007 20:15:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29512
 16; 5815.8; 22-OCT-2007 20:35:24; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29512
 17; 5908.1; 22-OCT-2007 20:36:56; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29512
 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512
 20; 6202.7; 22-OCT-2007 20:41:50; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29512
 21; 6450.6; 22-OCT-2007 20:45:58; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;29512
 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 2; -126.5; 22-OCT-2007 23:58:09; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29514
 3; -42.5; 22-OCT-2007 23:59:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29514
 4; 50.2; 23-OCT-2007 00:01:06; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29515
 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515
 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
 10; 1601.7; 23-OCT-2007 00:26:57; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29515
 11; 2172.0; 23-OCT-2007 00:36:27; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29515

12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515
 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515
 17; 3627.5; 23-OCT-2007 01:00:43; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29515
 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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 2; -125.7; 23-OCT-2007 01:38:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29515
 3; -41.9; 23-OCT-2007 01:40:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29515
 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
 8; 915.6; 23-OCT-2007 01:56:07; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29516
 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
 10; 1602.0; 23-OCT-2007 02:07:33; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29516
 11; 2172.3; 23-OCT-2007 02:17:04; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29516
 12; 2406.4; 23-OCT-2007 02:20:58; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29516
 13; 2529.7; 23-OCT-2007 02:23:01; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29516
 14; 2872.7; 23-OCT-2007 02:28:44; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29516
 15; 2950.5; 23-OCT-2007 02:30:02; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29516
 16; 3425.0; 23-OCT-2007 02:37:56; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;29516

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 2; -2116.4; 23-OCT-2007 02:46:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29516
 3; -2021.7; 23-OCT-2007 02:47:45; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29516
 4; -1811.5; 23-OCT-2007 02:51:16; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29516
 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
 6; -218.8; 23-OCT-2007 03:17:48; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29516
 7; -125.0; 23-OCT-2007 03:19:22; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29516
 8; -41.2; 23-OCT-2007 03:20:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29516
 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517
 10; 168.0; 23-OCT-2007 03:24:15; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29517
 11; 417.9; 23-OCT-2007 03:28:25; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29517
 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517
 13; 915.9; 23-OCT-2007 03:36:43; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29517
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 15; 1602.3; 23-OCT-2007 03:48:09; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29517
 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517
 17; 2406.5; 23-OCT-2007 04:01:34; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29517
 18; 2529.6; 23-OCT-2007 04:03:37; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29517
 19; 2872.8; 23-OCT-2007 04:09:20; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29517
 20; 2950.4; 23-OCT-2007 04:10:38; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29517
 21; 3425.1; 23-OCT-2007 04:18:32; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29517
 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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 3; -2021.3; 23-OCT-2007 04:28:22; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;29517
 4; -1811.5; 23-OCT-2007 04:31:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29517
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4; 2526.5; 24-OCT-2007 08:33:45; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29534
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 10; 4014.0; 24-OCT-2007 10:39:08; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29535
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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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 17; 6210.0; 24-OCT-2007 14:36:56; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29537
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8; 87.5; 26-OCT-2007 06:49:51; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29562
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6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
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3; 2674.7; 29-OCT-2007 10:59:55; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29607
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5; 2941.1; 29-OCT-2007 11:04:22; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29607
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3; 2674.3; 29-OCT-2007 12:40:31; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29608

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