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**MINIMA OF ECLIPSING BINARIES AND
NEW EPHEMERIDES FOR GSC 03881-00579 AND EZ LACERTAE**

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The list below contains 163 times of minimum for 79 eclipsing binary stars (including the cataclysmic AM Her) calculated from CCD observations made by participants in the SSV-UAI Eclipsing Binaries Program. All the observatories are located in Italy; one is managed by the Physics Department of the University of Siena, while the others are privately operated. Some light curves were remotely obtained (via Internet) using the Italian and Australian telescopes of the Skylive-UAI Project, that are publicly available on the web site <http://www.skylive.it>.

The observations were reduced following standard procedures (see next section) and the light curves were analyzed using the Kwee–van Woerden algorithm (Kwee & van Woerden, 1956) to determine the times of minimum. All the times of minimum listed in this paper are heliocentric.

It is worth noting that most of the observed stars are neglected objects.

Observatory and telescope:

University of Siena Astron. Observatory: 32-cm Maksutov–Cassegrain (MC32)

Australian Skylive remote telescope: 36-cm Schmidt–Cassegrain (SC36)

Other private astronomical stations:

30-cm Schmidt–Cassegrain (SC30)

23-cm Schmidt–Cassegrain (SC23)

25-cm Newton (NW25)

25-cm Schmidt–Cassegrain (SC25)

20-cm Newton (NW20)

20-cm Schmidt–Cassegrain (SC20)

13-cm Maksutov–Cassegrain (MK13)

8-cm ED Refractor (ED8)

| | |
|------------------|---|
| Detector: | Meade DSI Pro II Monochromatic CCD camera (DSI) QSI 516wsg CCD Camera SBIG ST-7 CCD Camera (ST7) SBIG ST-8XME CCD Camera (ST8) SBIG ST-9 CCD Camera (ST9) Sony ICX429ALL based CCD camera (CCD-UAI) Canon Eos 1100D DSLR(Eos) |
|------------------|---|

| |
|--|
| Method of data reduction: |
| Frame calibration (dark subtraction and flat field correction) and photometric analysis (differential photometry on each image) were performed using MaxIm DL or Mira Pro software packages. |

| |
|---|
| Method of minimum determination: |
| Times of minima, expressed as Heliocentric Julian Day (see the attached Table), were computed adopting the KW method (Kwee & van Woerden, 1956) using AVE (Barberá, 1996). This algorithm also provides an error estimate, that is the formal internal error of the KW method, which can be considered as a lower limit of the actual uncertainty on times of minimum. Together with that error, we provide an alternative estimate error according to the Arlot's (modified) method (Arlot et al., 2009) by adopting the formula $\sigma_{T_{oM}} = \frac{1}{\sqrt{2}} \frac{\sigma_m}{\Delta m} \Delta t$, where σ_m is the error in magnitude and Δm is the magnitude drop during a time range Δt delimiting the part of the light curve where the speed of decrease in magnitude is the highest. The types of minimum quoted in the Table were deduced according to the ephemeris provided by Kreiner's (2004) web site (http://www.as.up.krakow.pl/ephem), by B.R.N.O. – <i>O–C Gateway</i> web site (http://var.astro.cz/ocgate) or by our updated elements. In the latter case we are sure that the primary minimum (conventionally at zero phase) is the deepest one. |

| Times of minima: | | | | | | |
|-------------------------|------------------------------|---|------|--------|-------------------------|--|
| Star name | Time of min. HJD 2400000+ | Error | Type | Filter | Rem. | |
| V473 And | 55836.3902 | 0.0006 ^a 0.0004 ^b | I | V | Martinengo/SC20/QSI 516 | |
| V473 And | 55837.3928 | 0.0010 0.0005 | II | V | Martinengo/SC20/QSI 516 | |
| V473 And | 55837.5932 | 0.0013 0.0003 | I | V | Martinengo/SC20/QSI 516 | |
| V473 And | 55843.4114 | 0.0008 0.0005 | II | V | Banfi/SC25/ST7 | |
| V473 And | 55843.6124 | 0.0008 0.0005 | I | V | Banfi/SC25/ST7 | |
| V473 And | 55846.4217 | 0.0012 0.0004 | I | V | Banfi/SC25/ST7 | |
| V473 And | 55878.5260 | 0.0011 0.0003 | I | V | Vincenzi/SC30/ST9 | |
| V480 And | 55836.3021 | 0.0007 0.0004 | I | V | Zambelli/SC25/ST8 | |
| V487 And | 55830.5409 | 0.0029 0.0007 | I | V | Banfi/SC25/ST7 | |
| V502 And | 55804.4732 | 0.0015 0.0005 | I | V | Banfi/SC25/ST7 | |
| V502 And | 55836.3609 | 0.0007 0.0003 | I | – | Corfini/NW20/CCD-UAI | |
| V502 And | 55879.4120 | 0.0009 0.0004 | I | V | Corfini/NW20/CCD-UAI | |
| XX Ant | 55916.2133 | 0.0007 0.0009 | II | r | Marino/SC36/ST8 | |
| CK Aqr | 55791.4012 | 0.0006 0.0002 | I | V | Vincenzi/SC30/ST9 | |
| GS Aqr | 55838.3281 | 0.0003 0.0002 | II | – | Corfini/NW20/CCD-UAI | |
| AL Ari | 55898.3071 | 0.0003 0.0001 | I | R | Marino/NW25/ST7 | |
| EM Aur | 55954.2639 | 0.0022 0.0005 | II | R | Marino/NW25/ST7 | |
| MM Aur | 55945.3071 | 0.0037 0.0011 | I | – | Ruocco/SC25/ST7 | |
| MR Aur | 55938.4642 | 0.0061 0.0019 | I | – | Ruocco/SC25/ST7 | |
| V562 Aur | 55915.3709 | 0.0017 0.0003 | I | Y495 | Corfini/NW20/CCD-UAI | |
| V594 Aur | 55904.2955: | 0.0023 0.0020 | I | – | Ruocco/SC25/ST7 | |
| TU Boo | 55924.5934 | 0.0005 0.0001 | I | V | Vincenzi/SC30/ST9 | |

| Times of minima: | | | | | | |
|---------------------|------------------------------|--------|--------|------|----------|--------------------------|
| Star name | Time of min. HJD 2400000+ | Error | | Type | Filter | Rem. |
| EF Boo | 56036.3468 | 0.0006 | 0.0001 | I | <i>R</i> | Marino et al./NW20/ST7 |
| XZ CMi | 55863.5173 | 0.0006 | 0.0001 | I | <i>V</i> | Vincenzi/SC30/ST9 |
| AE Cas | 55940.2959 | 0.0002 | 0.0001 | I | <i>R</i> | Marino/NW25/ST7 |
| DO Cas | 55919.3001 | 0.0005 | 0.0001 | I | <i>R</i> | Marino/NW20/ST7 |
| V541 Cas | 55928.3368 | 0.0001 | 0.0001 | II | <i>R</i> | Marino/NW25/ST7 |
| DM CVn | 56046.3212 | 0.0008 | 0.0004 | I | – | Ruocco/SC25/ST7 |
| EL CVn | 56076.4101 | 0.0004 | 0.0001 | I | <i>V</i> | Martinengo/SC20/QSI 516 |
| EV CVn | 56043.4320 | 0.0007 | 0.0004 | II | – | Ruocco/SC25/ST7 |
| EV CVn | 56043.5978 | 0.0007 | 0.0003 | I | – | Ruocco/SC25/ST7 |
| UX CrB | 56058.4798 | 0.0004 | 0.0001 | I | – | Ruocco/SC25/ST7 |
| V997 Cyg | 55764.5449 | 0.0005 | 0.0003 | II | <i>V</i> | Banfi/SC25/ST7 |
| V1187 Cyg | 55826.4039 | 0.0007 | 0.0002 | I | <i>V</i> | Banfi/SC25/ST7 |
| V1187 Cyg | 55835.4441 | 0.0005 | 0.0002 | I | <i>V</i> | Zambelli/SC25/ST8 |
| V1191 Cyg | 55826.4072 | 0.0007 | 0.0001 | II | <i>V</i> | Banfi/SC25/ST7 |
| V1905 Cyg | 55765.4700 | 0.0001 | 0.0002 | I | – | Ruocco/SC25/ST7 |
| V1763 Cyg | 55802.3573 | 0.0008 | 0.0006 | I | <i>V</i> | Banfi/SC25/ST7 |
| V2287 Cyg | 55832.3206 | 0.0016 | 0.0009 | I | <i>V</i> | Banfi/SC25/ST7 |
| V2486 Cyg | 55806.3740 | 0.0037 | 0.0012 | I | – | Ruocco/SC25/ST7 |
| CR Del | 55820.3994 | 0.0027 | 0.0008 | II | <i>V</i> | Banfi/SC25/ST7 |
| KO Del | 55834.3197 | 0.0003 | 0.0001 | I | – | Corfini/NW20/CCD-UAI |
| HL Dra | 55852.3251 | 0.0004 | 0.0002 | I | – | Corfini/NW20/CCD-UAI |
| G3881.0579 Dra | 55773.3453 | 0.0002 | 0.0001 | I | – | Corfini/NW20/CCD-UAI |
| G3881.0579 Dra | 56014.4160 | 0.0004 | 0.0002 | I | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56014.5801 | 0.0002 | 0.0001 | II | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56015.4038 | 0.0002 | 0.0001 | I | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56015.5680 | 0.0002 | 0.0001 | II | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56016.3917 | 0.0002 | 0.0002 | I | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56016.5560 | 0.0003 | 0.0001 | II | <i>V</i> | Marchini et al./MC32/ST7 |
| G3881.0579 Dra | 56025.4483 | 0.0013 | 0.0002 | II | – | Arena/NW20/DSI |
| G3881.0579 Dra | 56025.6136 | 0.0013 | 0.0002 | I | – | Arena/NW20/DSI |
| G3881.0579 Dra | 56039.6080 | 0.0005 | 0.0002 | II | – | Arena/NW20/DSI |
| G3881.0579 Dra | 56042.4066 | 0.0006 | 0.0001 | I | <i>R</i> | Arena/NW20/ST7 |
| G3881.0579 Dra | 56059.3676 | 0.0005 | 0.0001 | II | <i>V</i> | Aceti et al./SC20/ST8 |
| VV Eri | 55877.5609 | 0.0016 | 0.0002 | I | <i>V</i> | Vincenzi/SC30/ST9 |
| VV Eri | 55891.5794 | 0.0006 | 0.0002 | I | <i>V</i> | Vincenzi/SC30/ST9 |
| VV Eri | 55895.4695 | 0.0034 | 0.0007 | II | <i>V</i> | Vincenzi/SC30/ST9 |
| VV Eri | 55952.3246 | 0.0003 | 0.0001 | I | <i>V</i> | Zambelli/SC25/ST8 |
| VV Eri | 55952.3248 | 0.0004 | 0.0001 | I | <i>r</i> | Corfini/NW20/CCD-UAI |
| AM Her ^c | 55834.3195 | 0.0006 | 0.0013 | I | <i>V</i> | Banfi/SC25/ST7 |
| V1072 Her | 56036.4881 | 0.0054 | 0.0003 | II | – | Arena/NW20/DSI |
| V1088 Her | 56060.3817 | 0.0008 | 0.0009 | II | – | Ruocco/SC25/ST7 |
| V1088 Her | 56060.5613 | 0.0008 | 0.0007 | I | – | Ruocco/SC25/ST7 |
| V1088 Her | 56063.4342 | 0.0008 | 0.0003 | I | – | Ruocco/SC25/ST7 |
| V1088 Her | 56075.4689 | 0.0009 | 0.0004 | II | – | Ruocco/SC25/ST7 |
| V1106 Her | 55776.3528 | 0.0003 | 0.0002 | I | – | Corfini/NW20/CCD-UAI |
| V1106 Her | 55778.3904 | 0.0006 | 0.0002 | I | – | Corfini/NW20/CCD-UAI |
| V1106 Her | 55831.3476 | 0.0019 | 0.0004 | I | <i>V</i> | Banfi/SC25/ST7 |
| V1106 Her | 55839.3658 | 0.0010 | 0.0002 | II | <i>V</i> | Marchini/MC32/ST7 |
| V1106 Her | 55843.3139 | 0.0009 | 0.0003 | I | – | Corfini/NW20/CCD-UAI |
| V1106 Her | 55844.3320 | 0.0007 | 0.0003 | I | – | Corfini/NW20/CCD-UAI |
| V1106 Her | 55844.3323 | 0.0005 | 0.0003 | I | <i>V</i> | Marchini/MC32/ST7 |
| V1106 Her | 55851.3321 | 0.0008 | 0.0002 | II | – | Corfini/NW20/CCD-UAI |
| V1106 Her | 56004.6007 | 0.0025 | 0.0006 | II | – | Bonaventura/MK13/Eos |

| Times of minima: | | | | | | |
|------------------|------------------------------|---------------|------|--------|-----------------------------|--|
| Star name | Time of min. HJD 2400000+ | Error | Type | Filter | Rem. | |
| G1518.0913 Her | 56038.4225 | 0.0021 0.0002 | I | — | Arena/NW20/DSI | |
| G1518.0913 Her | 56038.5845 | 0.0013 0.0001 | II | — | Arena/NW20/DSI | |
| G1518.0913 Her | 56051.4334 | 0.0013 0.0011 | II | V | Aceti et al./SC25/ST8 | |
| EZ Lac | 55881.3430 | 0.0006 0.0003 | I | — | Ruocco/SC25/ST7 | |
| EZ Lac | 55892.5071 | 0.0013 0.0002 | I | — | Vincenzi/SC30/ST9 | |
| EZ Lac | 55895.2961 | 0.0011 0.0003 | I | — | Ruocco/SC25/ST7 | |
| EZ Lac | 55948.3194 | 0.0010 0.0021 | I | V | Marchini/MC32/ST7 | |
| EZ Lac | 56118.5614 | 0.0016 0.0005 | I | — | Marchini/MC32/ST7 | |
| EZ Lac | 56121.3466 | 0.0072 0.0003 | I | — | Marchini/MC32/ST7 | |
| EZ Lac | 56125.5141 | 0.0056 0.0014 | II | I | Zambelli/SC25/ST8 | |
| EZ Lac | 56125.5326 | 0.0079 0.0017 | II | — | Corfini/NW20/CCD-UAI | |
| EZ Lac | 56125.5384 | 0.0091 0.0012 | II | — | Banfi/SC25/ST7 | |
| EZ Lac | 56125.5631 | 0.0031 0.0012 | II | — | Marchini/MC32/ST7 | |
| EZ Lac | 56139.4754 | 0.0143 0.0022 | II | V | Martinengo/SC20/QSI 516 | |
| EZ Lac | 56139.4956 | 0.0169 0.0036 | II | — | Marchini/MC32/ST7 | |
| FU Lac | 55818.5718 | 0.0070 0.0081 | I | — | Ruocco/SC25/ST7 | |
| FU Lac | 55840.3395 | 0.0122 0.0024 | II | — | Ruocco/SC20/ST7 | |
| FU Lac | 55864.3560 | 0.0035 0.0011 | I | — | Ruocco/SC25/ST7 | |
| XX Leo | 56019.3106 | 0.0047 0.0005 | II | V | Salvaggio,Lo Savio/SC23/ST7 | |
| VW LMi | 55983.4129 | 0.0016 0.0005 | I | — | Bonav., Marino/MK13/Eos | |
| WZ LMi | 56004.3405 | 0.0031 0.0008 | II | — | Ruocco/SC25/ST7 | |
| AA Lyn | 56001.3162 | 0.0003 0.0002 | I | — | Ruocco/SC25/ST7 | |
| CW Lyn | 56014.3550 | 0.0011 0.0003 | I | V | Martinengo/SC20/QSI 516 | |
| DI Lyn | 55942.3894 | 0.0044 0.0014 | II | H | Corfini/NW20/CCD-UAI | |
| EH Lyn | 55974.4884 | 0.0014 0.0006 | I | — | Corfini/NW20/CCD-UAI | |
| EH Lyn | 55979.3903 | 0.0005 0.0004 | I | — | Zambelli/SC25/ST8 | |
| EH Lyn | 55980.3702 | 0.0003 0.0003 | I | — | Zambelli/SC25/ST8 | |
| EH Lyn | 55984.4597 | 0.0011 0.0003 | II | — | Corfini/NW20/CCD-UAI | |
| EH Lyn | 55988.3799 | 0.0015 0.0007 | II | — | Corfini/NW20/CCD-UAI | |
| HY Lyr | 55825.3577 | 0.0008 0.0004 | II | V | Banfi/SC25/ST7 | |
| PV Lyr | 55803.4355 | 0.0017 0.0004 | I | V | Banfi/SC25/ST7 | |
| QQ Lyr | 55769.5520 | 0.0012 0.0008 | I | — | Ruocco/SC25/ST7 | |
| V574 Lyr | 55791.5070 | 0.0003 0.0002 | II | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55795.4688 | 0.0003 0.0002 | I | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55798.3359 | 0.0003 0.0003 | II | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55798.4728 | 0.0003 0.0004 | I | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55799.4278 | 0.0010 0.0003 | II | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55800.3850 | 0.0007 0.0003 | I | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55800.5196 | 0.0007 0.0010 | II | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55801.3399 | 0.0003 0.0003 | II | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55801.4776 | 0.0003 0.0004 | I | BVRI | Arena/NW20/ST7 | |
| V574 Lyr | 55802.4325 | 0.0005 0.0003 | II | BVRI | Arena/NW20/ST7 | |
| G3108.0057 Lyr | 55775.5515 | 0.0004 0.0002 | I | — | Arena/NW20/DSI | |
| DD Mon | 55975.3123 | 0.0002 0.0001 | I | R | Marino/NW25/ST7 | |
| V383 Mon | 55985.4022 | 0.0019 0.0007 | I | — | Ruocco/SC25/ST7 | |
| V383 Mon | 55999.3652 | 0.0014 0.0009 | I | — | Ruocco/SC25/ST7 | |
| V383 Mon | 56007.3029 | 0.0024 0.0022 | II | — | Ruocco/SC25/ST7 | |
| V464 Mon | 55911.2019 | 0.0006 0.0002 | I | — | Marino/SC36/ST8 | |
| V527 Mon | 55909.2121 | 0.0009 0.0004 | I | — | Marino/SC36/ST8 | |
| ET Ori | 55876.1011 | 0.0002 0.0001 | I | — | Bianciardi, Ruocco/SC36/ST8 | |
| BW Peg | 55838.4471 | 0.0015 0.0004 | I | — | Ruocco/SC20/ST7 | |
| BW Peg | 55846.3719 | 0.0004 0.0005 | I | — | Corfini/NW20/CCD-UAI | |
| V365 Peg | 55840.3521 | 0.0060 0.0005 | II | V | Banfi/SC25/ST7 | |
| V963 Per | 55922.2549 | 0.0002 0.0001 | I | — | Ruocco/SC25/ST7 | |
| V963 Per | 55923.4136 | 0.0009 0.0003 | II | — | Ruocco/SC25/ST7 | |
| V963 Per | 55923.6407 | 0.0005 0.0003 | I | — | Ruocco/SC25/ST7 | |
| GR Psc | 55818.5789 | 0.0010 0.0001 | II | V | Banfi/SC25/ST7 | |
| CP Sge | 55805.3585 | 0.0022 0.0008 | I | V | Banfi/SC25/ST7 | |

| Times of minima: | | | | | | |
|-------------------------|------------------------------|--------|--------|------|----------|-----------------------|
| Star name | Time of min. HJD 2400000+ | Error | | Type | Filter | Rem. |
| V423 Tau | 55948.3316 | 0.0061 | 0.0017 | II | – | Ruocco/SC25/ST7 |
| V423 Tau | 55952.4212 | 0.0048 | 0.0008 | II | – | Ruocco/SC25/ST7 |
| V423 Tau | 55953.4434: | – | 0.0100 | I | – | Ruocco/SC25/ST7 |
| V423 Tau | 55956.5144 | 0.0041 | 0.0022 | II | – | Ruocco/SC25/ST7 |
| V1374 Tau | 55919.3776 | 0.0002 | 0.0003 | I | Y495 | Corfini/NW20/CCD-UAI |
| V1374 Tau | 55937.4361 | 0.0003 | 0.0002 | I | <i>r</i> | Corfini/NW20/CCD-UAI |
| BE Tri | 55819.6384 | 0.0014 | 0.0004 | I | <i>V</i> | Banfi/SC20/ST7 |
| BE Tri | 55835.3955 | 0.0006 | 0.0003 | I | – | Corfini/NW20/CCD-UAI |
| BM Tri | 55850.4697 | 0.0007 | 0.0002 | I | <i>V</i> | Banfi/SC25/ST7 |
| BX Tri | 55838.4592 | 0.0010 | 0.0008 | II | <i>V</i> | Banfi/SC25/ST7 |
| BX Tri | 55839.4206 | 0.0031 | 0.0009 | II | <i>V</i> | Banfi/SC25/ST7 |
| BX Tri | 55839.5158 | 0.0009 | 0.0005 | I | <i>V</i> | Banfi/SC25/ST7 |
| BX Tri | 55839.6150 | 0.0018 | 0.0004 | II | <i>V</i> | Banfi/SC25/ST7 |
| CM Tri | 55825.6310 | 0.0015 | 0.0007 | I | <i>V</i> | Banfi/SC25/ST7 |
| CN Tri | 55803.5678 | 0.0007 | 0.0003 | I | <i>V</i> | Banfi/SC25/ST7 |
| CS Tri | 55924.4591 | 0.0018 | 0.0005 | I | <i>V</i> | Banfi/SC25/ST7 |
| XY UMa | 56004.4285 | 0.0003 | 0.0001 | I | – | Bonaventura/MK13/Eos |
| GZ UMa | 55933.4127: | 0.0044 | 0.0002 | I | <i>V</i> | Lucidi/ED8/DSI |
| LL UMa | 56013.4238 | 0.0012 | 0.0006 | I | – | Ruocco/SC25/ST7 |
| LL UMa | 56013.5882 | 0.0016 | 0.0006 | II | – | Ruocco/SC25/ST7 |
| MS UMa | 55983.4140 | 0.0007 | 0.0003 | I | <i>V</i> | Aceti et al./SC25/ST7 |
| EY Vul | 55839.3213 | 0.0024 | 0.0007 | I | <i>V</i> | Banfi/SC25/ST7 |
| V384 Vul | 55706.5493 | 0.0009 | 0.0003 | II | <i>V</i> | Banfi/SC25/ST7 |
| V384 Vul | 55750.4349 | 0.0020 | 0.0004 | II | <i>V</i> | Banfi/SC25/ST7 |
| V384 Vul | 55790.3715 | 0.0011 | 0.0001 | II | <i>V</i> | Vincenzi/SC30/ST9 |
| V384 Vul | 55803.5366 | 0.0015 | 0.0001 | II | <i>V</i> | Vincenzi/SC30/ST9 |
| V384 Vul | 55805.5119 | 0.0018 | 0.0003 | I | <i>V</i> | Vincenzi/SC30/ST9 |
| V384 Vul | 55819.3355 | 0.0007 | 0.0003 | II | <i>V</i> | Marchini/MC32/ST7 |
| V467 Vul | 55442.3386 | 0.0004 | 0.0003 | II | <i>V</i> | Corfini/NW20/CCD-UAI |
| V467 Vul | 55827.4316 | 0.0007 | 0.0002 | II | – | Corfini/NW20/CCD-UAI |

Explanation of the remarks in the table:

Rem.: Observer[s]/Telescope/Detector

^a Arlot's modified method

^b as given by KW method

^c cataclysmic variable

: uncertain

Remarks:

GSC 03881-0579 – We found relevant discrepancies between our observed times of the minima and the computed times of the minima based on the period of $0^{\text{d}}3293363$ given by Devor et al. (2008). Our data better fit to the $0^{\text{d}}329333$ value given by Gettel et al. (2006). The best linear fit of the O–C vs. the epoch, leaving the initial epoch and period free to vary, including the time of minimum given by the VSX catalogue (deduced from Devor et al., 2008 data), leads to the following updated ephemeris:

$$T_{min}(\text{HJD}) = 2453128.48509(\pm 0.00091) + 0^{\text{d}}3293313(\pm 0.0000001) \times E$$

EZ Lac – Considering our data together with those found in literature, the best linear fit of the O–C leads to the following average ephemeris:

$$T_{min}(\text{HJD}) = 2429231.3909(\pm 0.0263) + 2^{\text{d}}7908638(\pm 0.0000035) \times E$$

Figure 1 shows the O–C diagram computed using the above mentioned average ephemeris. The high dispersion of the old data (photographic) does not allow to establish with certainty a variation of O–C or period in the range from the first observations (1938) up to our observations. However, the average ephemeris leads to a discrepancy of about half an hour with respect to the recent times of minimum. Our minima better fit to the following updated ephemeris:

$$T_{min}(\text{HJD}) = 2455881.34265(\pm 0.0013) + 2^{\text{d}}790773(\pm 0.000025) \times E$$

obtained taking into account only our primary minima, whose depth allows a more precise timing of the minima.

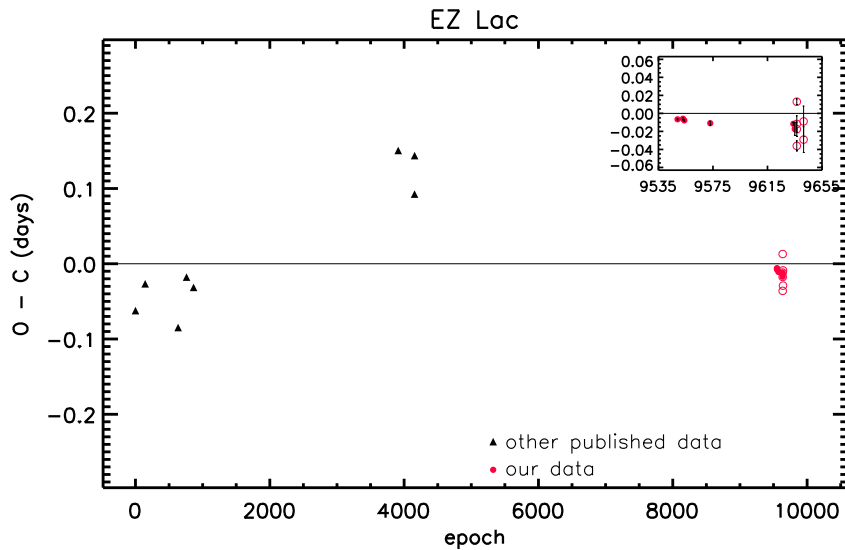


Figure 1. O–C diagram for EZ Lac. Empty symbols for secondary minima.

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