A LIST OF MINIMA AND MAXIMA TIMINGS

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Abstract: The list contains minima of eclipsing and maxima of pulsating stars. It continues the list published in OEJV 0172 (Paschke 2015).

1 Instruments used

The following telescopes and observatories have been used:
28cm+G2 = 28 cm Newton, G2-402 camera, observatory in Eggerberg, Switzerland
10cm+G2 = 10 cm Lens with 50 cm focal length, Eggerberg, Switzerland
50mm+G1 = 50/135 mm teleobjective, G1 camera, Eggerberg, Switzerland
50mm+G2 = 50/135 mm teleobjective, G2 camera, Cabeca Fundao, Cabo Verde, remote
50mm+ST7 = 50/135 mm teleobjective, SBIG ST-7 camera, Carona TI, Switzerland, remote
Asas = All Sky Automated Survey (Pojmanski et al. 2005).
Catalina = Catalina Sky Survey (Drake et al. 2009).
Tarot = Tarot Calern (Nord, Boer et al. 2001), France
The Moravian instruments G1-300 camera uses a Sony ICX 424AL chip.
The Moravian instruments G2-402 camera uses a KAF 402 chip.
Some observations were made with two remote telescopes on different sites simultaneously.

2 Light elements of studied stars

Table 1 shows the elements. For pulsating stars times of maxima (R) and for eclipsing binary the times of minima are given (primary - p, secondary – s). If the star is eclipsing and listed in the O-C GATE (Paschke & Brat 2006), then the elements are identical to those of the O-C GATE, version April 2017. Column Last modification shows the date when the elements where modified. GSC 1.2 identification are abbreviated to save space in the main table.

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3 Maxima and minima times

Minimum times were estimated by fitting goniometric polynomials up to order 3 to the data. Table 2 shows maxima and minima of observed stars. The first columns give stellar identification taken from GCVS, NSV and GSC 1.2. The third column (kind) gives the kind of extremum: p = primary, s = secondary, R = maximum. The fourth column gives Julian heliocentric time of the minima decreased by 2400000. It is based on UTC, leap seconds included. Column 'Err' gives the uncertainty of minima time. In the sixth column O-C values in days are given. Column 'Filter' gives information about the passband in which measurements were taken (ccd= unfiltered ccd, V = Johnson visual, R = Cousin red, I = Cousin infrared). N obs is the number of measurements (ccd images) used. Finally, the last column gives instruments used (see s. 1). In some cases the name of the observer is added.

Table 2: Maxima and minima of observed stars

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G3864.01315  Dra  p  57860.4610  0.0020  +  0.0014  ccd  42  50mm+ST7
G3864.01315  Dra  s  57860.5980  0.0040  +  0.0003  ccd  53  50mm+ST7
G3870.01172  Dra  s  57847.3920  0.0040  +  0.0002  ccd  35  50mm+ST7
G3870.01172  Dra  p  57855.3940  0.0050  -  0.0012  ccd  52  50mm+ST7
G3870.01172  Dra  s  57855.5590  0.0070  +  0.0008  ccd  50  50mm+ST7
RT  Equ  R  57624.4540  0.0030  -  0.0024  ccd  95  28cm+G2
SV  Equ  p  57300.5000  0.0100  +  0.0038  ccd  131  50mm+G2
UZ  Equ  p  57295.4610  0.0050  +  0.0022  ccd  130  50mm+G2
ZZ  Eri  p  57335.5220  0.0020  +  0.0045  ccd  100  28cm+G2
G1337.01137  Gem  p  57810.3860  0.0070  +  0.0030  ccd  74  50mm+ST7
Z  Her  p  56855.4833  0.0140  +  0.0099  vis  15  binocular  Dumont Michel
RX  Her  p  56873.4346  0.0070  +  0.0022  vis  15  binocular  Dumont Michel
SZ  Her  p  57627.3970  0.0070  +  0.0023  vis  35  30cm Newton  Boninsegna Rolan
SZ  Her  p  57627.4000  0.0070  +  0.0053  vis  43  30cm Newton  Goffin Benoit
SZ  Her  p  57627.4010  0.0070  +  0.0063  vis  26  30cm Newton  Huys Guy
SZ  Her  p  57627.4050  0.0070  +  0.0103  vis  31  30cm Newton  Delsaux Guillaume
VZ  Hya  p  57776.5100  0.0080  +  0.0031  ccd  128  50mm+ST7
VZ  Hya  p  57837.4970  0.0040  -  0.0003  ccd  127  50mm+G2
FG  Hya  p  57498.4590  0.0050  +  0.0051  ccd  85  50mm+G
FO  Hya  p  57500.5310  0.0080  +  0.0056  ccd  73  50mm+G2
LO  Hya  p  57011.6440  0.0090  +  0.0002  ccd  328  50mm+ST7
G4902.01190  Hya  s  57484.4280  0.0030  +  0.0017  ccd  94  50mm+G2
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WY  Leo  p  57799.4590  0.0100  -  0.0069  ccd  114  50mm+ST7
G0234.00844  Leo  p  54531.6700  0.0200  +  0.0021  V  90  Asas
ES  Lib  p  57543.4660  0.0020  -  0.0022  R  159  50mm+G2
DE  Mic  p  57284.4370  0.0050  +  0.0012  ccd  265  50mm+G2
DE  Mic  p  57547.6890  0.0100  +  0.0029  ccd  100  50mm+G2
G9498.00800  Oct  s  53764.6907  0.0000  +  0.0011  V  0  Asas
G9498.00800  Oct  s  54803.6098  0.0000  -  0.0678  V  0  Asas
G9498.00800  Oct  s  57704.8190  0.0020  +  0.0166  V  40  40cm+ST11000  Hambsch Josch
U  Oph  s  56809.4601  0.0140  +  0.0015  vis  10  binocular  Dumont Michel
U  Oph  s  56856.4105  0.0070  -  0.0138  vis  10  binocular  Dumont Michel
U  Oph  p  57162.5120  0.0130  -  0.0279  vis  11  binocular  Dumont Michel
U  Oph  p  57246.3984  0.0060  -  0.0089  vis  9  binocular  Dumont Michel
U  Oph  s  57267.3828  0.0080  +  0.0087  vis  7  binocular  Dumont Michel
U  Oph  s  57272.4164  0.0050  +  0.0103  vis  9  binocular  Dumont Michel
U  Oph  p  57293.3631  0.0080  -  0.0098  vis  16  binocular  Dumont Michel
V1010  Oph  s  57212.4690  0.0100  -  0.0038  ccd  168  50mm+ST7
V1010  Oph  p  57213.4610  0.0050  -  0.0037  ccd  157  50mm+ST7
EG  Ori  p  57724.4050  0.0070  +  0.0001  ccd  150  28cm+G2
ER  Ori  p  57778.3600  0.0030  -  0.0014  ccd  115  50mm+ST5
EW  Ori  s  57382.3930  0.0100  +  0.1598  ccd  60  50mm+ST7
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| V1388  | Ori  | p | 57746.5120 | 0.0100 | +  | 0.0037 | ccd | 199 | 50mm+ST7 |
| V2735  | Ori  | p | 57767.4460 | 0.0070 | +  | 0.0021 | ccd | 130 | 50mm+ST7 |
| V2762  | Ori  | p | 57773.5190 | 0.0040 | -  | 0.0003 | ccd | 120 | 50mm+ST7 |
| V2778  | Ori  | s | 57376.5280 | 0.0300 | -  | 0.0015 | ccd | 129 | 50mm+ST7 |
| ZZ     | Peg  | p | 57319.4790 | 0.0050 | +  | 0.0025 | ccd | 247 | 28cm+G2  |
| EE     | Peg  | p | 56920.4250 | 0.0200 | +  | 0.0197 | vis | 11   | binocular |
|        |      |   |            |       |     |        |     |      | Dumont Michel |
| EE     | Peg  | p | 56949.3260 | 0.0200 | +  | 0.0104 | vis | 14   | binocular |
|        |      |   |            |       |     |        |     |      | Dumont Michel |
| EE     | Peg  | p | 56962.4617 | 0.0090 | +  | 0.0050 | vis | 11   | binocular |
|        |      |   |            |       |     |        |     |      | Dumont Michel |
| EE     | Peg  | p | 57238.4065 | 0.0100 | -  | 0.0127 | vis | 14   | binocular |
|        |      |   |            |       |     |        |     |      | Dumont Michel |
| RY     | Per  | p | 57373.3670 | 0.0100 | +  | 0.0138 | ccd | 119 | 50mm+ST7 |
| IZ     | Per  | p | 57366.4390 | 0.0020 | +  | 0.0016 | ccd | 32   | 50mm+ST7 |
| G2869.00639 | Per | p | 57728.7190 | 0.0050 | -  | 0.0023 | ccd | 35   | 50mm+ST7 |
| G2869.00639 | Per | s | 57729.2490 | 0.0040 | +  | 0.0002 | ccd | 40   | 50mm+ST7 |
| G2869.00639 | Per | p | 57730.4790 | 0.0040 | -  | 0.0007 | ccd | 53   | 50mm+ST7 |
| G2869.00639 | Per | s | 57730.6540 | 0.0040 | -  | 0.0015 | ccd | 72   | 50mm+ST7 |
| UV     | Psc  | p | 57356.3420 | 0.0020 | -  | 0.0029 | ccd | 60   | 50mm+ST7 |
| XZ     | PsA  | p | 57683.4620 | 0.0100 | +  | 0.0006 | ccd | 101  | 50mm+G2  |
| ZZ     | PsA  | s | 57298.4190 | 0.0050 | +  | 0.0025 | ccd | 70   | 50mm+G2  |
| ZZ     | PsA  | s | 57682.4060 | 0.0080 | +  | 0.0014 | ccd | 198  | 50mm+G2  |
| ZZ     | PsA  | p | 57708.3900 | 0.0080 | -  | 0.0001 | ccd | 91   | 50mm+G2  |
| BH     | Pup  | p | 53499.5600 | 0.0100 | +  | 0.0289 | V   | 90   | Asas     |
| MQ     | Pup  | p | 57836.4200 | 0.0010 | -  | 0.0078 | ccd | 48   | 50mm+G2  |
| MW     | Pup  | p | 57812.4960 | 0.0030 | +  | 0.0012 | ccd | 107  | 50mm+G2  |
| NO     | Pup  | p | 57810.5970 | 0.0040 | -  | 0.0069 | ccd | 378  | 50mm+G2  |
| PV     | Pup  | p | 57815.5150 | 0.0100 | +  | 0.0031 | ccd | 537  | 50mm+G2  |
| V0405  | Pup  | p | 57846.4200 | 0.0100 | +  | 0.0037 | ccd | 268  | 50mm+G2  |
| V0505  | Sgr  | p | 57255.4350 | 0.0020 | +  | 0.0013 | ccd | 133  | 50mm+G2  |
| V0505  | Sgr  | p | 57268.4470 | 0.0020 | +  | 0.0018 | ccd | 199  | 50mm+G2  |
| V0505  | Sgr  | p | 57281.4560 | 0.0050 | -  | 0.0007 | ccd | 105  | 50mm+G2  |
| V0505  | Sgr  | p | 57611.4730 | 0.0010 | -  | 0.0033 | R   | 39   | 50mm+G2  |
| V1647  | Sgr  | p | 56162.3200 | 0.0100 | +  | 0.0039 | ccd | 70   | 50mm+STE |
| V1647  | Sgr  | p | 57501.6960 | 0.0020 | +  | 0.0015 | ccd | 74   | 50mm+G2  |
| V2349  | Sgr  | p | 57569.5250 | 0.0050 | +  | 0.0047 | ccd | 82   | 50mm+G2  |
| V4197  | Sgr  | p | 57270.5260 | 0.0050 | +  | 0.0079 | ccd | 172  | 50mm+G2  |
| V4197  | Sgr  | s | 57582.5390 | 0.0050 | +  | 0.0071 | R   | 172  | 50mm+G2  |
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| V4403  | Sgr  | p | 57260.3800 | 0.0100 | -  | 0.0630 | ccd | 60   | 50mm+G2  |
| V4437  | Sgr  | p | 57609.4960 | 0.0050 | +  | 0.0053 | R   | 295  | 50mm+G2  |
| V5572  | Sgr  | p | 57672.4400 | 0.0100 | +  | 0.0032 | R   | 169  | 50mm+G2  |
| V5656  | Sgr  | p | 57570.6040 | 0.0060 | +  | 0.0052 | ccd | 153  | 50mm+G2  |
| V0499  | Sco  | p | 57548.6030 | 0.0070 | -  | 0.0013 | ccd | 187  | 50mm+G2  |
| V0499  | Sco  | p | 57562.6050 | 0.0080 | +  | 0.0009 | R   | 118  | 50mm+G2  |
| V0700  | Sco  | p | 57545.5790 | 0.0050 | +  | 0.0011 | ccd | 34   | 50mm+G2  |
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References


Paschke, A. 2015, Open European Journal on Variable stars, 172, 1, [2015OEJV..172....1P](http://var.astro.cz/oejv)
