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**NEW TIMES OF MINIMA OF SOME ECLIPSING VARIABLES**

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|---|--|
| <b>Observatory and telescope:</b>   |  |
| URSA Observatory at the University of Arkansas (ursa.uark.edu); 10-inch Schmidt-Cassegrain reflector. |  |
| <b>Detector:</b>  | 1020×1530 pixels SBIG ST8EN CCD cooled to (typ.)<br>–20 °C; 1.15 arcsec square pixels; 20'(N-S)×30'(E-W)<br>field of view. |
| <b>Method of data reduction:</b>  |  |
| Virtual measuring engine (Measure 1.98) written by C.H.S. Lacy (2004)                                 |  |
| <b>Method of minimum determination:</b>   |  |
| Kwee & van Woerden (1956)   |  |

| <b>Times of minima:</b> |                              |         |      |        |      |
|-------------------------|------------------------------|---------|------|--------|------|
| Star name               | Time of min.<br>HJD 2400000+ | Error   | Type | Filter | Rem. |
| AP And                  | 53201.79472                  | 0.00015 | 1    | V      |      |
|                         | 53205.76349                  | 0.00019 | 2    | V      |      |
|                         | 53220.84197                  | 0.00010 | 1    | V      |      |
|                         | 53302.5867                   | 0.0004  | 2    | V      |      |
| CO And                  | 53230.7632                   | 0.0003  | 2    | V      |      |
| CG Aur                  | 52990.8095                   | 0.0003  | 1    | V      |      |
|                         | 53076.5867                   | 0.0011  | 2    | V      |      |
|                         | 53085.6104                   | 0.0010  | 2    | V      |      |
| HP Aur                  | 52985.7101                   | 0.0010  | 2    | V      |      |
|                         | 53074.63505                  | 0.00011 | 1    | V      |      |
|                         | 53079.61465                  | 0.00016 | 2    | V      |      |
| TX Boo                  | 53104.7691                   | 0.0009  | 1    | V      |      |
| V381 Cas                | 52990.55032                  | 0.00013 | 2    | V      |      |
|                         | 53003.61975                  | 0.00025 | 1    | V      |      |
| V389 Cas                | 53190.8378                   | 0.0006  | 1    | V      |      |
| V459 Cas                | 52988.58525                  | 0.00014 | 1    | V      |      |
|                         | 52992.74846                  | 0.00019 | 2    | V      |      |
|                         | 53026.58164                  | 0.00014 | 2    | V      |      |
| V651 Cas                | 53281.88754                  | 0.00019 | 2    | V      |      |
| IO Cep                  | 52985.5526                   | 0.0007  | 2    | V      |      |
|                         | 53128.9016                   | 0.0008  | 2    | V      |      |
|                         | 53190.7000                   | 0.0005  | 2    | V      |      |
|                         | 53198.7274                   | 0.0003  | 1    | V      |      |
|                         | 53219.73559                  | 0.00017 | 1    | V      |      |
|                         | 53229.62236                  | 0.00021 | 1    | V      |      |

| <b>Times of minima:</b> |                              |         |      |        |      |
|-------------------------|------------------------------|---------|------|--------|------|
| Star name               | Time of min.<br>HJD 2400000+ | Error   | Type | Filter | Rem. |
| V456 Cyg                | 53109.9156                   | 0.0003  | 2    | V      |      |
|                         | 53130.85712                  | 0.00010 | 1    | V      |      |
|                         | 53197.69705                  | 0.00011 | 1    | V      |      |
|                         | 53229.78003                  | 0.00006 | 1    | V      |      |
| V974 Cyg                | 53146.7796                   | 0.0007  | 1    | V      |      |
|                         | 53157.9032                   | 0.0004  | 2    | V      |      |
|                         | 53231.6053                   | 0.0007  | 2    | V      |      |
| V1061 Cyg               | 53145.8083                   | 0.0006  | 2    | V      |      |
|                         | 53293.6434                   | 0.0003  | 2    | V      |      |
| LV Her                  | 53209.7288                   | 0.0004  | 1    | V      |      |
| RW Lac                  | 52984.62075                  | 0.00020 | 2    | V      |      |
|                         | 53295.69757                  | 0.00016 | 2    | V      |      |
| UX Leo                  | 53003.9218                   | 0.0005  | 2    | V      |      |
|                         | 53053.77763                  | 0.00019 | 1    | V      |      |
|                         | 53056.79837                  | 0.00012 | 1    | V      |      |
|                         | 53062.84173                  | 0.00015 | 1    | V      |      |
|                         | 53063.84872                  | 0.00012 | 1    | V      |      |
|                         | 53112.6948                   | 0.0013  | 2    | V      |      |
| SX Oph                  | 53095.845                    | 0.003   | 1    | V      |      |
|                         | 53097.9143                   | 0.0007  | 1    | V      |      |
| V506 Oph                | 53123.78251                  | 0.00013 | 1    | V      |      |
|                         | 53132.79620                  | 0.00014 | 2    | V      |      |
|                         | 53168.8507                   | 0.0003  | 2    | V      |      |
| FO Ori                  | 53027.63660                  | 0.00015 | 1    | V      |      |
| V530 Ori                | 53004.7802                   | 0.0009  | 2    | V      |      |
| V648 Ori                | 53014.62683                  | 0.00022 | 1    | V      |      |
| IM Per                  | 53033.6699                   | 0.0003  | 1    | V      |      |
| V482 Per                | 53032.6433                   | 0.0003  | 1    | V      |      |
| AQ Ser                  | 53076.8397                   | 0.0005  | 2    | V      |      |
|                         | 53109.7432                   | 0.0005  | 1    | V      |      |
|                         | 53131.68080                  | 0.00024 | 1    | V      |      |
|                         | 53169.6480                   | 0.0007  | 2    | V      |      |
| BI Ser                  | 53032.9643                   | 0.0008  | 2    | V      |      |
|                         | 53035.9751                   | 0.0005  | 1    | V      |      |
|                         | 53111.8825                   | 0.0004  | 1    | V      |      |
| BP Vul                  | 53169.8789                   | 0.0006  | 2    | V      |      |

**Remarks:**

A sample of the observations has been published by Lacy, Hood & Straughn (2001).

## References:

Kwee, K. K. & van Woerden, H. 1956, BAN, 12, 327

Lacy, C. H. S., 2004, <http://ursa.uark.edu>

Lacy, C. H. S., Hood, B. & Straughn, A., 2001, IBVS, No. 5067