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

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<b>Observatory and telescope:</b>	
URSA: URSA Observatory at the University of Arkansas ( <a href="http://ursa.uark.edu">ursa.uark.edu</a> ); 10-inch Schmidt-Cassegrain reflector. NFO: NFO WebScope near Silver City, NM, USA ( <a href="http://www.nfo.edu">www.nfo.edu</a> ); 24-inch classical Cassegrain.	
<b>Detector:</b>	URSA: 1020×1530 pixels SBIG ST8EN CCD cooled to (typ.) $-20^{\circ}\text{C}$ ; 1.15 arcsec square pixels; $20'(\text{N-S})\times 30'(\text{E-W})$ field of view. NFO: 2102×2092 pixels Kodak KAF 4300E CCD cooled to (typ.) $-20^{\circ}\text{C}$ ; 0.78 arcsec square pixels; $27'$ square field of view.
<b>Method of data reduction:</b>	
Virtual measuring engine (Measure 2.0) written by C.H.S. Lacy (2005).	
<b>Method of minimum determination:</b>	
Kwee & van Woerden (1956)	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AP And	53733.5372	0.0001	1	V	URSA
	53736.7119	0.0004	1	V	NFO
	53916.8694	0.0003	2	V	NFO
	53998.6147	0.0002	1	V	NFO
	54009.7256	0.0002	1	V	NFO
	54017.6619	0.0002	1	V	URSA
	54021.6303	0.0002	2	V	URSA
	54021.6302	0.0002	2	V	NFO
	54028.7733	0.0001	1	V	URSA
	54029.5670	0.0001	2	V	URSA
	54032.7414	0.0001	2	V	URSA
	54048.6143	0.0002	2	V	URSA
	54051.7892	0.0002	2	V	URSA
	54052.5824	0.0002	1	V	NFO
	54059.7253	0.0002	2	V	NFO
	54063.6939	0.0001	1	V	URSA
	54067.6620	0.0003	2	V	NFO
	54071.6304	0.0003	1	V	URSA
	54071.6299	0.0002	1	V	NFO

<b>Times of minima:</b>						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.	
AP And	54075.5982	0.0003	2	V	NFO	
	54082.7410	0.0001	1	V	NFO	
	54086.7091	0.0001	2	V	NFO	
	54094.6458	0.0001	2	V	NFO	
	54110.5186	0.0002	2	V	URSA	
CO And	53731.5451	0.0002	2	V	URSA	
	53751.6494	0.0003	1	V	URSA	
	54016.6612	0.0004	1	V	URSA	
	54027.6270	0.0003	1	V	NFO	
	54038.5924	0.0005	1	V	URSA	
	54045.9039	0.0003	1	V	NFO	
	54047.7310	0.0002	2	V	NFO	
	54067.8365	0.0006	1	V	NFO	
	54080.6281	0.0002	2	V	NFO	
	54100.7342	0.0002	1	V	NFO	
	CG Aur	54063.8508	0.0004	2	V	URSA
		54071.9252	0.0005	1	V	URSA
		54109.8242	0.0003	1	V	URSA
54109.8241		0.0002	1	V	NFO	
54110.7769		0.0005	2	V	URSA	
54110.7750		0.0006	2	V	NFO	
54138.6998		0.0003	1	V	NFO	
HP Aur	53735.5350	0.0003	2	V	URSA	
	53764.7023	0.0003	1	V	NFO	
	53771.8161	0.0002	1	V	NFO	
	53776.7970	0.0003	2	V	NFO	
	53779.6425	0.0002	2	V	URSA	
	53781.7770	0.0002	1	V	NFO	
	53786.7573	0.0002	2	V	NFO	
	53811.6569	0.0002	1	V	URSA	
	53995.9131	0.0003	2	V	NFO	
	54022.9466	0.0003	2	V	URSA	
	54032.9059	0.0002	2	V	URSA	
	54049.9798	0.0001	2	V	NFO	
	54059.9401	0.0001	2	V	NFO	
	54069.8998	0.0003	2	V	NFO	
	54077.7262	0.0003	1	V	NFO	
	54091.9536	0.0002	1	V	NFO	
	54094.7994	0.0002	1	V	NFO	
	54109.7384	0.0004	2	V	URSA	
	54131.7931	0.0003	1	V	URSA	
	54134.6376	0.0002	1	V	URSA	
54134.6378	0.0002	1	V	NFO		
54136.7722	0.0002	2	V	NFO		
V456 Cyg	53900.8502	0.0001	1	V	URSA	
	54004.6746	0.0002	2	V	NFO	
V974 Cyg	53838.9325	0.0004	1	V	NFO	
V1136 Cyg	53866.9000	0.0007	2	V	NFO	
	53873.8239	0.0009	2	V	URSA	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
BF Dra	54019.6359	0.0006	2	V	NFO
	54036.6322	0.0002	1	V	NFO
GX Gem	53733.8903	0.0004	2	V	URSA
	53733.8889	0.0007	2	V	NFO
	53741.9658	0.0006	2	V	NFO
	53808.5921	0.0006	1	V	URSA
	53818.6871	0.0003	2	V	NFO
	54042.7918	0.0004	1	V	URSA
	54044.8142	0.0004	2	V	NFO
	54046.8303	0.0003	1	V	NFO
	54048.8492	0.0004	2	V	URSA
	54050.8679	0.0007	1	V	NFO
	54052.8871	0.0005	2	V	NFO
	54058.9444	0.0003	1	V	NFO
	54060.9613	0.0005	2	V	NFO
	54062.9824	0.0005	1	V	URSA
	54125.5673	0.0005	2	V	URSA
	54129.6067	0.0004	2	V	URSA
	54135.6650	0.0004	1	V	NFO
	54137.6834	0.0003	2	V	NFO
	54139.7025	0.0003	1	V	NFO
	54147.7777	0.0003	1	V	NFO
LV Her	53870.8866	0.0002	2	V	NFO
	53907.7573	0.0002	2	V	URSA
	53928.7308	0.0003	1	V	NFO
RW Lac	54052.6655	0.0011	2	V	NFO
V506 Oph	53880.9280	0.0001	1	V	NFO
	53905.8481	0.0002	2	V	URSA
	53913.8012	0.0002	1	V	URSA
	53914.8613	0.0002	1	V	URSA
	53914.8613	0.0002	1	V	NFO
	54007.6489	0.0002	2	V	NFO
	54137.0212	0.0004	2	V	NFO
	54179.9684	0.0001	1	V	NFO
V530 Ori	54104.7112	0.0009	2	V	NFO
IM Per	53734.7371	0.0004	1	V	URSA
	53734.7368	0.0005	1	V	NFO
	53760.6667	0.0003	2	V	URSA
IM Per	54010.8849	0.0006	2	V	NFO
	54028.9216	0.0008	2	V	URSA
	54037.9356	0.0005	2	V	URSA
	54037.9354	0.0002	2	V	NFO
	54053.7154	0.0005	2	V	NFO
	54061.6011	0.0003	1	V	URSA
	54070.6165	0.0002	1	V	NFO
	54107.8150	0.0003	2	V	NFO
	54124.7191	0.0002	1	V	NFO
	54176.5689	0.0004	1	V	URSA

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
NP Per	54021.8587	0.0003	1	V	URSA
	54021.8589	0.0001	1	V	NFO
	54108.7723	0.0002	1	V	URSA
V482 Per	53739.7567	0.0003	1	V	URSA
	53744.6506	0.0003	1	V	URSA
	53766.6715	0.0002	1	V	URSA
	53793.5857	0.0003	1	V	URSA
	54057.8341	0.0003	1	V	URSA
	54073.7380	0.0003	2	V	URSA
	53799.6571	0.0006	2	V	NFO
V514 Per	54081.6271	0.0006	2	V	NFO
	54130.7458	0.0007	2	V	NFO
	53740.0003	0.0011	2	V	URSA
AQ Ser	53766.9983	0.0003	2	V	NFO
	53777.9660	0.0005	1	V	NFO
	53788.9354	0.0003	2	V	NFO
	53837.8704	0.0002	2	V	NFO
	53842.9333	0.0004	2	V	NFO
	53843.7773	0.0006	1	V	URSA
	54171.9817	0.0004	2	V	NFO
	53738.6338	0.0004	2	V	URSA
	53742.7627	0.0005	1	V	URSA
	53749.6548	0.0005	2	V	URSA
CF Tau	53753.7858	0.0006	1	V	NFO
	54041.7705	0.0005	2	V	URSA
	54041.7675	0.0004	2	V	NFO
	54085.8649	0.0004	2	V	NFO
	53987.7740	0.0001	1	V	NFO
	54026.5809	0.0001	1	V	URSA
	53867.9405	0.0002	1	V	NFO
BT Vul	53875.9294	0.0002	1	V	NFO
	53887.9115	0.0003	2	V	NFO
	53895.7740	0.0002	1	V	URSA
	53902.7463	0.0004	2	V	URSA
	53914.7286	0.0002	1	V	URSA
	53915.8699	0.0002	1	V	NFO
	54015.7258	0.0009	2	V	URSA
	54031.7022	0.0002	2	V	NFO
	54042.5445	0.0003	1	V	URSA
	EQ Vul	53901.8290	0.0008	1	V

**Remarks:**

A sample of the observations has been published by Lacy et al. (2001). Mean deviations between independently timed eclipses by the two telescopes are not significantly larger than expected, implying that the estimated timing uncertainties are realistic.

## References:

- Kwee, K.K., van Woerden, H., 1956, *BAN*, **12**, 327  
 Lacy, C.H.S., 2005,  
<http://ursa.uark.edu>  
 Lacy, C.H.S., Hood, B., Straughn, A., 2001, *IBVS*, No. 5067