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NEW TIMES OF MINIMA OF SOME ECLIPSING VARIABLES

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Observatory and telescope:

URSA: URSA Observatory at the University of Arkansas; 10-inch Schmidt-Cassegrain reflector. NFO: NFO WebScope near Silver City, NM, USA (www.nfo.edu); 24-inch classical Cassegrain.

Detector:

URSA: 1020×1530 pixels SBIG ST8EN CCD cooled to (typ.) -20°C ; 1.15 arcsec square pixels; 20'(N-S)×30'(E-W) field of view. NFO: 2102×2092 pixels Kodak KAF 4300E CCD cooled to (typ.) -20°C ; 0.78 arcsec square pixels; 27' square field of view.

Method of data reduction:

Virtual measuring engine (Measure 2.0) written by C. H. S. Lacy in 2005.

Method of minimum determination:

Kwee & van Woerden (1956)

Remarks:

A sample of the observations has been published by Lacy, Hood & Straughn (2001). Mean deviations between independently timed eclipses by the two telescopes (URSA & NFO) are not significantly larger than expected based on the error estimates, implying that the estimated timing errors are realistic.

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AP And	55743.8409	0.0002	2	V	URSA
AP And	55758.9206	0.0003	1	V	URSA
AP And	55770.8254	0.0002	2	V	URSA
AP And	55801.7772	0.0002	1	V	URSA
AP And	55809.7138	0.0001	1	V	URSA
AP And	55816.8562	0.0003	2	V	URSA
AP And	55824.7931	0.0001	2	V	URSA
AP And	55835.9046	0.0003	2	V	URSA
AP And	55848.6023	0.0002	2	V	URSA
AP And	55848.6029	0.0002	2	V	NFO
AP And	55851.7772	0.0001	2	V	URSA
AP And	55851.7769	0.0002	2	V	NFO
AP And	55856.5392	0.0003	2	V	URSA
AP And	55866.8566	0.0001	1	V	NFO
AP And	55875.5867	0.0003	2	V	NFO
AP And	55890.6658	0.0002	1	V	URSA
AP And	55894.6339	0.0001	2	V	URSA
AP And	55925.5864	0.0002	1	V	NFO
V361 Cas	55762.8169	0.0006	2	V	URSA
V361 Cas	55799.6851	0.0004	2	V	URSA
V361 Cas	55805.8298	0.0005	1	V	URSA
V381 Cas	55825.9456	0.0004	2	V	NFO
V381 Cas	55862.6087	0.0004	2	V	NFO
V651 Cas	55775.9044	0.0002	2	V	URSA
V651 Cas	55776.9014	0.0003	2	V	URSA
V651 Cas	55779.8916	0.0004	2	V	URSA
V651 Cas	55787.8665	0.0002	2	V	URSA
V651 Cas	55800.8260	0.0002	2	V	URSA
V651 Cas	55806.8065	0.0003	2	V	URSA
V651 Cas	55807.8031	0.0002	2	V	URSA
V651 Cas	55811.7902	0.0003	2	V	URSA
V651 Cas	55817.7706	0.0001	2	V	URSA
V651 Cas	55825.7455	0.0002	2	V	URSA
V651 Cas	55830.7293	0.0002	2	V	URSA
V651 Cas	55832.7234	0.0002	2	V	URSA
V651 Cas	55833.7197	0.0003	2	V	URSA
V651 Cas	55834.7165	0.0002	2	V	URSA
V651 Cas	55835.7115	0.0004	2	V	URSA
V651 Cas	55838.7040	0.0002	2	V	URSA
V651 Cas	55839.6999	0.0003	2	V	URSA
V651 Cas	55841.6939	0.0002	2	V	URSA
V651 Cas	55842.6906	0.0002	2	V	URSA
V651 Cas	55851.6614	0.0002	2	V	URSA
V651 Cas	55853.6546	0.0002	2	V	URSA
V651 Cas	55854.6520	0.0003	2	V	URSA
V651 Cas	55855.6486	0.0003	2	V	URSA
V651 Cas	55863.6224	0.0002	2	V	URSA

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V651 Cas	55865.6165	0.0003	2	V	URSA
V651 Cas	55870.6002	0.0002	2	V	URSA
V651 Cas	55876.5811	0.0002	2	V	URSA
V651 Cas	55883.5588	0.0002	2	V	URSA
V651 Cas	55894.5238	0.0002	2	V	URSA
WW Cep	55760.8664	0.0003	2	V	URSA
WW Cep	55850.5829	0.0001	1	V	URSA
V1136 Cyg	55722.9106	0.0007	2	V	NFO
V1136 Cyg	55833.7128	0.0017	2	V	NFO
BF Dra	55695.8610	0.0002	1	V	NFO
BF Dra	55779.7569	0.0011	2	V	URSA
BF Dra	55824.6070	0.0005	2	V	URSA
V501 Her	55712.8993	0.0006	2	V	NFO
RW Lac	55742.8581	0.0004	2	V	NFO
AL Leo	55621.8084	0.0002	2	V	URSA
AL Leo	55622.6114	0.0002	1	V	URSA
AL Leo	55625.8225	0.0003	1	V	NFO
AL Leo	55626.6251	0.0003	2	V	NFO
AL Leo	55630.6391	0.0002	1	V	NFO
AL Leo	55634.6529	0.0002	2	V	NFO
AL Leo	55646.6939	0.0003	1	V	NFO
AL Leo	55893.9434	0.0002	1	V	NFO
AL Leo	55926.8563	0.0001	2	V	NFO
AL Leo	55930.8700	0.0002	1	V	NFO
AL Leo	55934.8841	0.0002	2	V	NFO
AL Leo	55946.9259	0.0002	1	V	URSA
AL Leo	55950.9395	0.0002	2	V	URSA
AL Leo	55955.7555	0.0002	2	V	URSA
AL Leo	55955.7557	0.0004	2	V	NFO
AL Leo	55967.7970	0.0002	1	V	NFO
V506 Oph	55737.7365	0.0002	1	V	URSA
V506 Oph	55762.6565	0.0001	2	V	URSA
V506 Oph	55763.7167	0.0002	2	V	URSA
V506 Oph	55788.6366	0.0002	1	V	URSA
V506 Oph	55805.6035	0.0003	1	V	URSA
V506 Oph	55806.6641	0.0004	1	V	URSA
IM Per	55853.7152	0.0008	1	V	NFO
IM Per	55854.8329	0.0006	2	V	NFO
IM Per	55855.9707	0.0006	1	V	URSA
IM Per	55855.9733	0.0004	1	V	NFO
IM Per	55862.7355	0.0003	1	V	NFO
IM Per	55932.6170	0.0003	1	V	URSA
IM Per	55933.7326	0.0005	2	V	NFO
IM Per	55941.6331	0.0003	1	V	URSA
IM Per	55950.6503	0.0002	1	V	URSA
NP Per	55884.9413	0.0002	1	V	NFO
V482 Per	55848.8258	0.0004	1	V	URSA

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V482 Per	55848.8265	0.0004	1	V	NFO
V482 Per	55865.9527	0.0004	1	V	URSA
V482 Per	55865.9522	0.0004	1	V	NFO
V482 Per	55875.7404	0.0005	1	V	URSA
V482 Per	55940.5796	0.0009	2	V	URSA
V482 Per	55946.6960	0.0004	1	V	URSA
V514 Per	55849.8523	0.0007	2	V	URSA
V514 Per	55850.7590	0.0009	1	V	URSA
V514 Per	55860.7655	0.0007	2	V	NFO
V514 Per	55869.8601	0.0011	2	V	NFO
AQ Ser	55760.6989	0.0005	1	V	URSA
V335 Ser	55630.9697	0.0002	1	V	NFO
V335 Ser	55694.9212	0.0005	2	V	NFO
TY Tau	55832.8640	0.0003	1	V	URSA
TY Tau	55853.8730	0.0008	2	V	URSA
TY Tau	55854.9496	0.0005	2	V	URSA
TY Tau	55859.7977	0.0003	1	V	URSA
TY Tau	55865.7230	0.0006	2	V	URSA
TY Tau	55875.9581	0.0004	1	V	URSA
TY Tau	55895.8895	0.0005	2	V	URSA
V1094 Tau	55813.9147	0.0004	1	V	URSA
V1094 Tau	55831.8918	0.0002	1	V	URSA
V1094 Tau	55855.7330	0.0002	2	V	URSA
V1094 Tau	55882.6987	0.0003	2	V	NFO
V1094 Tau	55894.8107	0.0002	1	V	URSA
V1094 Tau	55936.6296	0.0002	2	V	NFO
V1094 Tau	55945.6179	0.0003	2	V	NFO
HY Vir	55623.7767	0.0003	1	V	URSA
HY Vir	55716.6799	0.0003	1	V	URSA
BP Vul	55775.7640	0.0002	2	V	URSA
BT Vul	55693.8621	0.0003	1	V	NFO
BT Vul	55717.8267	0.0003	1	V	URSA
BT Vul	55733.8037	0.0002	1	V	NFO
BT Vul	55837.6522	0.0002	1	V	URSA
BT Vul	55849.6341	0.0003	2	V	URSA
BT Vul	55853.6290	0.0002	1	V	NFO
BT Vul	55865.6119	0.0002	2	V	NFO
BT Vul	55881.5898	0.0004	2	V	NFO

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