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148 CCD TIMES OF MINIMA OF 47 ECLIPSING BINARIES

LIAKOS, A.; NIARCHOS, P.

Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens, GR
157 84 Zografos, Athens, Greece; e-mail: alliakos@phys.uoa.gr, pniarcho@phys.uoa.gr

Observatory and telescope:	
16'' Cassegrain telescope at the University of Athens Observatory	
Detector:	ST-8XMEI CCD camera, Peltier cooling, KAF-1603ME chip, 15' × 10' and 23' × 15' (using a focal reducer) FOV, 1530 × 1020 pixels, Bessell <i>BVRI</i> filters
Method of data reduction:	
The reduction of the CCD frames was made using the software Muniwin v.1.1.23 (Hroch, 1998).	
Method of minimum determination:	
The minima times were computed using the Kwee & van Woerden (1956) method.	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AD And	54711.5097	0.0002	I	<i>BVRI</i>	
TT And	54298.4326	0.0001	I	<i>V</i>	
	54309.4931	0.0001	I	<i>V</i>	
RY Aqr	54297.4658	0.0001	I	<i>VR</i>	
	54361.3731	0.0003	II	<i>VR</i>	
	54362.3626	0.0001	I	<i>VR</i>	
AH Aur	54178.3628	0.0001	I	<i>VRI</i>	
	54203.3144	0.0001	II	<i>VRI</i>	
AC Boo	54572.3454	0.0002	I	<i>BVRI</i>	
	54572.5224	0.0002	II	<i>BVRI</i>	
TZ Boo	54099.6529	0.0001	I	<i>R</i>	
	54102.6259	0.0001	II	<i>R</i>	
	54605.4207	0.0002	I	<i>BVRI</i>	
	54608.3921	0.0002	I	<i>BVRI</i>	
	54608.5435	0.0003	II	<i>BVRI</i>	
	54624.4384	0.0002	II	<i>BVRI</i>	
UW Boo	54592.3568	0.0002	II	<i>B</i>	
AL Cam	54516.3669	0.0001	I	<i>BV</i>	
	54526.3292	0.0004	II	<i>BV</i>	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
SV Cam	54352.5745	0.0003	II	<i>VRI</i>	
	54359.3914	0.0002	I	<i>VRI</i>	
	54361.4719	0.0001	II	<i>VR</i>	
AV CMi	54107.4977	0.0002	I	<i>R</i>	
	54475.5015	0.0009	II	<i>VRI</i>	
	54492.4357	0.0003	I	<i>VRI</i>	
	54772.6025	0.0004	I	<i>I</i>	
YY CMi	54114.4364	0.0001	I	<i>R</i>	
RW Cap	54303.5221	0.0001	I	<i>V</i>	
TY Cap	54296.4612	0.0001	I	<i>R</i>	
	54363.3648	0.0001	I	<i>R</i>	
	54373.3282	0.0001	I	<i>R</i>	
	54716.3804	0.0004	I	<i>BVRI</i>	
WY Cet	54766.4518	0.0002	I	<i>BVRI</i>	
RZ Com	54566.2706	0.0001	I	<i>VRI</i>	
	54573.3789	0.0001	I	<i>BVRI</i>	
	54573.5489	0.0002	II	<i>BVRI</i>	
KR Cyg	54696.3480	0.0001	II	<i>B</i>	
RZ Dra	54201.5765	0.0001	II	<i>R</i>	
	54229.3945	0.0001	II	<i>RI</i>	
	54232.4247	0.0002	II	<i>RI</i>	
TZ Dra	54204.5621	0.0002	II	<i>BI</i>	
	54214.5197	0.0001	I	<i>BI</i>	
	54658.3585	0.0004	II	<i>BV</i>	
TZ Eri	54661.3878	0.0001	I	<i>BV</i>	
	54475.4092	0.0002	I	<i>R</i>	
	54479.3194	0.0003	II	<i>BV</i>	
UX Eri	54496.2583	0.0001	II	<i>B</i>	
	54109.3134	0.0001	I	<i>R</i>	
	54491.4655	0.0003	II	<i>VR</i>	
AL Gem	54544.3340	0.0003	II	<i>VR</i>	
	54887.3015	0.0001	I	<i>BVRI</i>	
	54919.3026	0.0001	I	<i>V</i>	
	54935.3010	0.0011	II	<i>BVRI</i>	
	54609.3997	0.0002	I	<i>B</i>	
	54610.3475	0.0001	I	<i>B</i>	
	54610.5055	0.0002	II	<i>B</i>	
	54611.4540	0.0002	II	<i>B</i>	
	54699.3835	0.0003	II	<i>BVRI</i>	
	54700.3326	0.0003	II	<i>BVRI</i>	
GSC 3101-0683	54701.2817	0.0004	II	<i>BVRI</i>	
	54701.4384	0.0004	I	<i>BVRI</i>	
	54703.3363	0.0003	I	<i>BVRI</i>	
	54704.4433	0.0006	II	<i>BVRI</i>	
	54706.3421	0.0003	II	<i>BVRI</i>	
	54707.4480	0.0004	I	<i>BVRI</i>	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
GSC 4589-2999	54290.4167	0.0003	II	<i>RI</i>	
	54306.4601	0.0007	I	<i>BVRI</i>	
	54312.3603	0.0005	II	<i>BV</i>	
	54377.3822	0.0001	I	<i>R</i>	
	54399.3355	0.0001	I	<i>R</i>	
	54637.4327	0.0003	I	<i>BVRI</i>	
	54642.4998	0.0001	I	<i>V</i>	
	54691.4703	0.0002	I	<i>V</i>	
GSC 4833-1209	54437.6234	0.0002	I	<i>R</i>	
	54791.6365	0.0008	I	<i>VR</i>	
	54797.5610	0.0006	II	<i>VR</i>	
	54798.6051	0.0004	I	<i>VR</i>	
	54824.3893	0.0009	I	<i>VR</i>	
	54883.2778	0.0017	II	<i>VR</i>	
	54886.4134	0.0006	I	<i>VR</i>	
	54906.2730	0.0015	II	<i>VR</i>	
CC Her	54935.5805	0.0010	II	<i>I</i>	
	54988.4685	0.0001	I	<i>BVRI</i>	
SZ Her	54367.2809	0.0001	I	<i>R</i>	
	54376.2798	0.0001	I	<i>R</i>	
	54392.2324	0.0002	II	<i>VR</i>	
V338 Her	54610.4418	0.0002	II	<i>B</i>	
	54706.4237	0.0002	I	<i>BVRI</i>	
UU Leo	54200.2862	0.0003	II	<i>R</i>	
	54520.2829	0.0001	I	<i>R</i>	
	54891.5123	0.0002	I	<i>BVRI</i>	
	54907.4703	0.0024	I	<i>RI</i>	
LZ Lyr	54595.4741	0.0001	II	<i>R</i>	
DD Mon	54551.2890	0.0001	I	<i>R</i>	
	54555.2650	0.0001	I	<i>R</i>	
IL Mon	54410.3509	0.0003	I	<i>VR</i>	
KR Mon	54108.4508	0.0001	I	<i>R</i>	
	54116.5072	0.0002	I	<i>R</i>	
	54165.4234	0.0003	II	<i>R</i>	
	54437.6262	0.0001	I	<i>R</i>	
	54486.5401	0.0004	II	<i>R</i>	
	54791.5462	0.0003	II	<i>VR</i>	
	54825.4988	0.0015	I	<i>VR</i>	
	V839 Oph	54262.4460	0.0001	I	<i>BVRI</i>
54263.4695		0.0001	II	<i>BVRI</i>	
54268.3780		0.0002	I	<i>BVRI</i>	
54269.3989		0.0001	II	<i>BVRI</i>	
54287.3945		0.0001	I	<i>BVRI</i>	
54288.4192		0.0001	II	<i>BVRI</i>	
54299.4619		0.0002	II	<i>BVRI</i>	
54300.4837		0.0002	I	<i>BVRI</i>	
54315.4129		0.0001	II	<i>BVRI</i>	
54316.4355		0.0002	I	<i>BVRI</i>	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
	54654.4801	0.0001	II	<i>BVRI</i>	
	54655.5019	0.0001	I	<i>BVRI</i>	
	54666.3412	0.0001	II	<i>BVRI</i>	
	54667.3625	0.0001	I	<i>BVRI</i>	
	54685.3586	0.0001	I	<i>BVRI</i>	
	54985.3669	0.0002	II	<i>BVRI</i>	
	54997.4323	0.0001	I	<i>BVRI</i>	
	54686.3825	0.0001	II	<i>BVRI</i>	
	54998.4554	0.0001	II	<i>BVRI</i>	
FT Ori	54457.5738	0.0001	II	<i>VR</i>	
BB Peg	54086.3022	0.0001	I	<i>R</i>	
KP Peg	54344.3843	0.0002	II	<i>BVRI</i>	
	54345.4728	0.0002	I	<i>BVRI</i>	
IU Per	54436.2332	0.0001	I	<i>B</i>	
	54800.4713	0.0001	I	<i>B</i>	
V432 Per	54117.2300	0.0001	I	<i>R</i>	
CR Sct	54305.3571	0.0002	I	<i>R</i>	
UZ Sge	54662.3688	0.0002	I	<i>VR</i>	
	55021.3218	0.0007	I	<i>BR</i>	
	55022.4293	0.0008	II	<i>R</i>	
	55023.5389	0.0002	I	<i>B</i>	
V505 Sgr	54267.5471	0.0002	I	<i>VI</i>	
YY Sgr	54236.5696	0.0001	I	<i>R</i>	
	54332.3573	0.0001	II	<i>R</i>	
EQ Tau	54108.2304	0.0001	I	<i>R</i>	
RV Tri	54348.4846	0.0001	I	<i>R</i>	
	54354.5141	0.0001	I	<i>R</i>	
	54368.4613	0.0001	II	<i>R</i>	
X Tri	54764.3948	0.0001	I	<i>BVRI</i>	
AZ Vir	54204.3995	0.0001	II	<i>R</i>	
	54217.3370	0.0001	II	<i>R</i>	
	54235.3448	0.0001	I	<i>R</i>	
DR Vul	54267.4424	0.0001	I	<i>R</i>	
	54275.3696	0.0001	II	<i>R</i>	

Acknowledgements:

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References:

- Hroch, F., 1998, *Proceedings of the 29th Conference on Variable Star Research*, **30**
 Kwee, K., van Woerden, H., 1956, *Bulletin of the Astronomical Institutes of the Netherlands*, **12**, 327