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**CCD MINIMA FOR SELECTED ECLIPSING BINARIES IN 2009**

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<b>Observatory and telescope:</b>	
Sylvester Robotic Observatory (SRO): 33 cm f/4.5 Newtonian on Paramount ME mount	
<b>Detector:</b>	SRO: SBIG ST-7XME, 1''25 pixels, 15'8 × 10'5 FOV, cooled $-10 < T < -30^{\circ}$ C
<b>Method of data reduction:</b>	
Aperture photometry using MIRA, by Mirametrics.	
<b>Method of minimum determination:</b>	
Digital tracing paper method, bisection of chords, curve fitting, and (occasionally) Kwee and van Woerden (1956)	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
QR And	55109.745	0.001	II	c	
ZZ Aur	54880.7941	0.0005	II	c	
DN Aur	55109.9052	0.0003	I	c	
HP Aur	54888.7294	0.0002	I	c	
V0560 Aur	54889.6840	0.0004	I	R	
V0567 Aur	54890.648	0.001	I	R	
TU Boo	54895.8029	0.0002	II	R	
TZ Boo	54877.9187	0.0003	II	R	
XY Boo	54872.8873	0.0003	I	c	
DN Boo	54899.8538	0.0004	I	R	
FY Boo	54901.8492	0.0004	II	R	
FY Boo	54912.8242	0.0003	I	R	
GM Boo	54888.9036	0.0003	I	c	
GN Boo	54889.8313	0.0002	II	R	
GN Boo	54858.0134	0.0002	I	c	
GR Boo	54937.8123	0.0001	I	R	
HR Boo	54900.8755	0.0005	I	R	
AO Cam	55149.7175	0.0001	II	R	
CD Cam	55166.825	0.002	I	c	
MP Cam	55108.7950	0.0003	I	c	
NO Cam	55108.9387	0.0001	II	c	
ZZ Cas	55114.6494	0.0003	I	R	
DN Cas	55087.890	0.001	I	R	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V0520 Cas	55046.9002	0.0003	II	R	
V0608 Cas	55170.6927	0.0002	I	c	
V1009 Cas	55113.7607	0.0002	II	c	
V1011 Cas	55171.588	0.001	I	c	
GSC2.2 N311332336840	55050.8578	0.0003	II	R	
SU Cep	54986.8694	0.0002	II	R	
V0738 Cep	55000.839	0.002	II	R	
XZ CMi	54862.7529	0.0002	I	c	
CZ CMi	55159.977	0.001	I	R	
AH Cnc	54883.7412	0.0003	I	c	
EH Cnc	54882.8580	0.0002	II	c	
G1927-0862	54884.9130	0.0002	II	c	
IR Cnc	54879.6708	0.0003	II	c	
AS CrB	54945.7762	0.0002	I	R	
AV CrB	54948.8171	0.0002	II	R	
VW CVn	54916.7284	0.0004	II	R	
BO CVn	54950.7803	0.0003	I	R	
CX CVn	54913.8222	0.0004	I	R	
DE CVn	54937.709	0.001	I	R	
DF CVn	54879.8491	0.0002	II	c	
EE CVn	54883.8805	0.0003	II	c	
G2544-1007	54913.7168	0.0004	I	R	
G2544-1090	54918.7859	0.0003	II	R	
G2545-0970	54857.0824	0.0004	I	R	
G2545-0970	54936.7183	0.0003	I	R	
G2545-0970	54856.9018	0.0004	II	R	
G3034-0299	54879.9715	0.0001	II	c	
ZZ Cyg	54990.9041	0.0001	I	R	
CV Cyg	54911.9944	0.0004	I	R	
DO Cyg	55087.7001	0.0003	I	R	
V0841 Cyg	54984.8749	0.0004	II	R	
V1171 Cyg	54979.8017	0.0002	I	R	
V1191 Cyg	55086.8059	0.0002	II	R	
V1305 Cyg	55115.7064	0.0003	I	c	
V1763 Cyg	54950.8897	0.0003	I	R	
V1823 Cyg	54978.8404	0.0002	II	R	
V2197 Cyg	54951.9013	0.0001	I	R	
G3550-1770	54937.9371	0.0003	I	R	
G3575-3593	54992.821	0.001	I	R	
G3576-0170	54990.796	0.001	II	R	
BV Dra	54943.7793	0.0001	I	R	
CV Dra	54896.0395	0.0002	II	R	
FU Dra	54949.7633	0.0003	II	R	
G3552-0321	54998.8293	0.0003	I	R	
G3905-0060	54982.8120	0.0001	I	R	
AF Gem	54888.6372	0.0005	I	c	
V0345 Gem	54862.638	0.001	II	c	
V0367 Gem	55159.8243	0.0003	I	R	
V0373 Gem	54876.8499	0.0005	II	R	
V0390 Gem	55172.8410	0.0003	I	c	
G1330-0287	55159.8652	0.0005	II	c	
G1356-2826	54857.7415	0.0004	II	R	
IT Her	54953.9334	0.0003	II	R	
V0829 Her	54901.9444	0.0001	I	R	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V0842 Her	54872.9947	0.0001	II	c	
V0856 Her	54953.7837	0.0002	I	R	
V0857 Her	54916.9348	0.0001	II	R	
V1033 Her	54882.9794	0.0003	II	c	
V1036 Her	54951.8058	0.0003	I	R	
V1052 Her	54948.9056	0.0002	II	R	
V1094 Her	54952.8124	0.0003	II	R	
V1094 Her	54949.8726	0.0002	II	R	
V1103 Her	54985.8244	0.0003	II	R	
G1518-0913	54916.8018	0.0005	II	R	
G2587-1888	54945.8825	0.0005	II	R	
G2614-1369	54889.0091	0.0005	II	c	
G2618-1385	54895.9315	0.0002	I	R	
G3101-0547	54919.9164	0.0003	I	R	
G3532-0553	54912.9464	0.0002	II	R	
IZ Lac	55062.815	0.001	II	R	
XY Leo	54908.6876	0.0003	I	R	
GV Leo	54900.7214	0.0002	II	R	
RY Lyn	54919.7707	0.0001	I	R	
EL Lyn	55184.876	0.002	II	c	
IW Lyr	55065.781	0.001	I	R	
V0563 Lyr	54952.9401	0.0002	I	R	
V0592 Lyr	55049.8215	0.0002	II	R	
G3109-0859	54918.8899	0.0003	II	R	
IX Mon	55149.9177	0.0001	I	c	
V0448 Mon	54882.6631	0.0003	II	c	
V0530 Mon	54875.6770	0.0003	II	c	
V0392 Ori	55163.853	0.001	I	R	
V1799 Ori	55113.8532	0.0005	II?	c	
PU Peg	55108.70	0.01	II	V	
G2765-0348	55046.7953	0.0002	I	R	
V0427 Per	55166.7236	0.0002	I	c	
V0432 Per	55065.9185	0.0002	I	R	
V0680 Per	55171.8248	0.0003	II	c	
V0740 Per	55159.7533	0.0001	I	R	
RV Psc	55185.5696	0.0002	I	R	
CP Psc	55188.7005	0.0002	I	R	
DS Psc	55170.6345	0.0003	I	c	
DZ Psc	55171.7433	0.0002	I	c	
AS Tau	54881.7521	0.0004	I	c	
EN Tau	54856.6968	0.0002	I	R	
EQ Tau	55171.8725	0.0002	I	c	
HY Tau	55170.7832	0.0003	I	c	
IL Tau	55114.9225	0.0002	I	c	
G1874-0399	55184.7375	0.0003	II	c	
UY UMa	54857.8866	0.0002	I	c	
XY UMa	55166.903	0.001	II	V	
ZZ UMa	54876.6902	0.0003	I	R	
ES UMa	55188.7928	0.0002	II	R	
HH UMa	54872.7367	0.0004	II	c	
LP UMa	54884.7505	0.0003	II	c	
OQ UMa	54896.7607	0.0002	II	R	
BO Vul	54988.8636	0.0001	I	R	
G2140-1485	55166.6001	0.0002	II	c	
G2144-1499	54983.8089	0.0005	I	R	

**Explanation of the remarks in the table:**

All elements can be found in Nelson, R.H., 2010.

**Acknowledgements:**

Thanks are due to Environment Canada for the website satellite views (see reference below) that were essential in predicting clear times for observing runs in this cloudy locale. Thanks are also due to Atilla Danko for his 'Clear Sky Clocks', (see below). This research has made use of the SIMBAD database, operated at CDS, Strasbourg, France.

## References:

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