

COMMISSIONS G1 AND G4 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS

Volume 63 Number 6204 DOI: 10.22444/IBVS.6204

Konkoly Observatory
Budapest
13 April 2017

HU ISSN 0374 – 0676

COLLECTION OF MINIMA OF ECLIPSING BINARIES, PART III.

ZASCHE, P.¹; UHLAŘ, R.²; SVOBODA, P.³; KUČÁKOVÁ, H.^{1,6}; MAŠEK, M.^{4,5}; JURYŠEK, J.^{4,5}¹ Institute of Astronomy, Charles University, V Holešovičkách 2, Prague 8, CZ-18000 Czech Republic; e-mail: zasche@sirrah.troja.mff.cuni.cz² Private Observatory, Pohoří 71, Jílové u Prahy, CZ-25401 Czech Republic³ Private observatory, Výпустky 5, Brno, CZ-614 00 Czech Republic⁴ Variable Star and Exoplanet Section of Czech Astronomical Society, Czech Republic⁵ Institute of Physics, Czech Academy of Sciences, Na Slovance 1999/2, CZ-182 21 Praha 8, Czech Republic⁶ Institute of Physics, Faculty of Philosophy and Science, Silesian University in Opava, Bezručovo nám. 13, CZ-746 01 Opava, Czech Republic**Observatory and telescope:**

CCD photometry with various ground-based and automatic survey telescopes were used for the times of minima determination.

Method of data reduction:

The reduction of the CCD frames using the C-Munipack and IRAF routines.

Method of minimum determination:

The minima times were mostly computed with the Kwee - van Woerden method (Kwee & van Woerden, 1956), some of them with the polynomial fitting method, and the minima from the survey telescopes by the AFP method (Zasche et al. 2014).

Table 1: Times of minima of eclipsing binaries

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
WZ And	56955.61616	0.00279	Sec	C	BOOTES-1	MM
BX And	56940.41838	0.00028	Sec	R	N200/1000	RU
BX And	56963.29642	0.00024	Prim	C	N150/750	RU
BX And	57387.31853	0.00027	Prim	C	RF34/135	RU
BX And	57646.61120	0.00025	Prim	C	RF34/135	RU
BX And	57754.29518	0.00059	Sec	C	RF34/135	RU
GZ And	56940.40108	0.00021	Sec	C	N150/750	RU
GZ And	56964.34424	0.00078	Prim	R	N200/1000	RU
V342 And	57234.42718	0.00069	Prim	C	RF34/135	RU
V389 And	57260.49447	0.00039	Prim	R	RF34/135	RU
V389 And	57660.39841	0.00068	Sec	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
V392 And	56900.49329	0.00132	Prim	C	N150/750	RU
V392 And	57248.47125	0.00036	Prim	C	N150/750	RU
V392 And	57319.28003	0.00027	Sec	R	RF34/135	RU
V392 And	57600.49858	0.00069	Prim	R	N200/1000	RU
RY Aqr	57233.54659	0.00025	Prim	C	RF34/135	RU
RY Aqr	57238.42719	0.00152	Sec	C	RF34/135	RU
RY Aqr	57594.41826	0.00097	Sec	R	N200/1000	RU
RY Aqr	57723.22140	0.00031	Prim	C	RF34/135	RU
SU Aqr	57241.55137	0.00032	Prim	C	RF34/135	RU
SU Aqr	57614.50750	0.00093	Prim	C	RF34/135	RU
DX Aqr	57327.33408	0.00160	Sec	C	RF34/135	RU
DX Aqr	57625.48445	0.00075	Prim	I	RF34/135	RU
V342 Aql	57198.51390	0.00375	Prim	R	RF34/135	RU
V346 Aql	57189.50099	0.00015	Prim	C	RF34/135	RU
V346 Aql	57199.45773	0.00012	Prim	C	N150/750	RU
V346 Aql	57215.49924	0.00065	Sec	C	N150/750	RU
V346 Aql	57574.51488	0.00011	Prim	C	RF34/135	RU
V346 Aql	57640.34740	0.00159	Sec	C	RF34/135	RU
V418 Aql	57639.32520	0.00065	Prim	R	N200/1000	RU
V418 Aql	57640.43773	0.00605	Sec	R	N200/1000	RU
V803 Aql	57191.48532	0.00009	Sec	R	BOOTES 2	MM
V889 Aql	54856.75681	0.01157	Prim	C	Pi of the sky	
V889 Aql	54860.69863	0.02356	Sec	C	Pi of the sky	
V889 Aql	53010.74475	0.02675	Prim	V	ASAS	
V889 Aql	53359.40826	0.05255	Sec	V	ASAS	
V889 Aql	54656.59989	0.02132	Prim	V	ASAS	
V889 Aql	54660.52492	0.09115	Sec	V	ASAS	
V1461 Aql	57213.48870	0.00038	Prim	C	RF34/135	RU
V1461 Aql	57608.41422	0.00039	Prim	R	N200/1000	RU
V1470 Aql	57209.43086	0.00154	Sec	C	RF34/135	RU
V1470 Aql	57535.49961	0.00176	Prim	C	RF34/135	RU
V1470 Aql	57614.40805	0.00067	Sec	C	RF34/135	RU
σ Aql	56937.35850	0.00132	Sec	I	RF34/135	RU
σ Aql	56940.28000	0.00055	Prim	I	RF34/135	RU
σ Aql	57164.56308	0.00179	Prim	I	RF34/135	RU
σ Aql	57204.54466	0.00063	Sec	I	RF34/135	RU
σ Aql	57205.52001	0.00046	Prim	I	RF34/135	RU
σ Aql	57517.56909	0.00095	Prim	I	RF34/135	RU
σ Aql	57518.54978	0.00073	Sec	I	RF34/135	RU
AL Ari	57335.49906	0.00063	Sec	C	RF34/135	RU
AL Ari	57337.33158	0.00026	Prim	C	RF34/135	RU
AL Ari	57708.32864	0.00039	Prim	C	RF34/135	RU
BQ Ari	56932.47474	0.00049	Prim	R	N200/1000	RU
BQ Ari	56959.43321	0.00055	Sec	R	N200/1000	RU
BQ Ari	57277.48728	0.00066	Prim	C	N150/750	RU
AK Aur	57431.41003	0.00066	Prim	R	N200/1000	RU
AK Aur	57774.35085	0.00484	Prim	C	RF34/135	RU
IU Aur	56933.59657	0.00142	Sec	R	N200/1000	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
IU Aur	57099.35360	0.00103	Prim	C	RF34/135	RU
IU Aur	57396.43407	0.00060	Prim	C	RF34/135	RU
IU Aur	57772.31789	0.00084	Sec	C	RF34/135	RU
IU Aur	57780.47946	0.00159	Prim	C	RF34/135	RU
LY Aur	56930.58641	0.00028	Sec	I	N150/750	RU
V424 Aur	57414.28174	0.00089	Sec	C	RF34/135	RU
V424 Aur	57760.52832	0.00230	Prim	C	RF34/135	RU
V424 Aur	57773.38076	0.00045	Prim	C	RF34/135	RU
V424 Aur	57818.38244	0.00087	Sec	C	RF34/135	RU
V462 Aur	57279.58040	0.00132	Prim	C	RF34/135	RU
V462 Aur	57338.43518	0.00077	Sec	C	RF34/135	RU
V462 Aur	57712.61980	0.00188	Sec	C	RF34/135	RU
V462 Aur	57815.41068	0.00145	Prim	C	RF34/135	RU
V560 Aur	56905.50727	0.00112	Prim	C	N150/750	RU
V560 Aur	57297.52461	0.00086	Sec	C	N150/750	RU
V560 Aur	57333.44107	0.00228	Prim	C	RF34/135	RU
V560 Aur	57431.25216	0.00049	Prim	R	N200/1000	RU
V560 Aur	57758.29868	0.00135	Prim	C	RF34/135	RU
V560 Aur	57774.33696	0.00349	Sec	C	RF34/135	RU
CK Boo	57543.49680	0.00059	Prim	C	RF34/135	RU
CK Boo	57776.64353	0.00038	Sec	R	N200/1000	RU
CK Boo	57799.54315	0.00055	Prim	C	RF34/135	RU
EM Boo	57153.44395	0.00128	Sec	C	RF34/135	RU
EM Boo	57466.56699	0.00154	Prim	C	RF34/135	RU
EM Boo	57482.46810	0.00060	Sec	C	RF34/135	RU
EM Boo	57493.47589	0.00145	Prim	C	RF34/135	RU
EQ Boo	57079.49993	0.00037	Prim	R	RF34/135	RU
EQ Boo	57081.67258	0.00059	Sec	R	RF34/135	RU
EQ Boo	57128.41590	0.00018	Prim	R	N200/1000	RU
EQ Boo	57141.46122	0.00046	Sec	C	RF34/135	RU
EQ Boo	57478.45235	0.00056	Sec	C	RF34/135	RU
EQ Boo	57503.45388	0.00065	Prim	C	RF34/135	RU
EQ Boo	57780.65762	0.00027	Prim	C	RF34/135	RU
EQ Boo	57804.57056	0.00029	Sec	C	RF34/135	RU
ET Boo	57099.47098	0.00032	Prim	R	RF34/135	RU
ET Boo	57125.59422	0.00052	Sec	R	RF34/135	RU
ET Boo	57383.61114	0.00029	Sec	R	N200/1000	RU
ET Boo	57800.62925	0.00066	Prim	C	RF34/135	RU
GK Boo	57042.61228	0.00009	Prim	R	BOOTES 2	MM
GK Boo	57058.61755	0.00007	Sec	R	BOOTES 2	MM
GK Boo	57091.58439	0.00009	Sec	R	N200/1000	RU
GK Boo	57182.60027	0.00009	Prim	R	BOOTES 2	MM
GS Boo	57812.56375	0.00053	Prim	R	WHOO	HK
i Boo	57089.52009	0.00045	Prim	I	RF34/135	RU
i Boo	57483.47858	0.00026	Prim	I	RF34/135	RU
i Boo	57483.61210	0.00057	Sec	I	RF34/135	RU
SZ Cam	56930.48684	0.00239	Prim	C	RF34/135	RU
SZ Cam	57297.47359	0.00137	Prim	I	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
SZ Cam	57745.43284	0.00109	Prim	C	RF34/135	RU
SZ Cam	57776.45158	0.00229	Sec	C	RF34/135	RU
CV Cam	57396.28010	0.00037	Sec	C	RF34/135	RU
CV Cam	57414.28411	0.00089	Prim	C	RF34/135	RU
CV Cam	57736.43122	0.00065	Prim	C	RF34/135	RU
DT Cam	56281.31626	0.00019	Prim	C	RF34/135	RU
DT Cam	56292.47172	0.00058	Sec	R	RF34/135	RU
DT Cam	57691.58808	0.00066	Sec	C	RF34/135	RU
S Cnc	57125.34136	0.00436	Sec	R	N200/1000	RU
S Cnc	57746.58285	0.00042	Prim	C	RF34/135	RU
CX CVn	57491.52442	0.00169	Sec	C	RF34/135	RU
CX CVn	57519.40728	0.00017	Prim	R	N200/1000	RU
CX CVn	57778.65292	0.00042	Prim	C	RF34/135	RU
CX CVn	57783.59782	0.00519	Sec	C	RF34/135	RU
CX CVn	57829.51763	0.00265	Sec	C	RF34/135	RU
FZ CMa	57719.58252	0.00166	Prim	C	RF34/135	RU
GU CMa	57385.40972	0.00069	Prim	C	RF34/135	RU
GU CMa	57410.36896	0.00049	Sec		RF34/135	RU
GU CMa	57719.52996	0.00129	Sec	C	RF34/135	RU
GU CMa	57723.55253	0.00128	Prim	C	RF34/135	RU
KL CMa	56981.48154	0.00113	Prim	C	RF34/135	RU
KL CMa	57101.31649	0.00059	Prim	C	RF34/135	RU
KL CMa	57334.58940	0.00076	Sec	C	RF34/135	RU
KL CMa	57492.54049	0.00096	Prim	C	FRAM Nikkor	MM
KL CMa	57720.52364	0.00047	Sec	C	RF34/135	RU
KL CMa	57790.36087	0.00069	Prim	C	RF34/135	RU
MP CMa	57775.39545	0.00167	Prim	C	RF34/135	RU
AR Cas	57328.39456	0.00107	Prim	C	RF34/135	RU
YZ Cas	56930.53220	0.00031	Prim	I	RF34/135	RU
YZ Cas	57359.38502	0.00352	Prim	C	RF34/135	RU
YZ Cas	57627.41920	0.00050	Prim	I	RF34/135	RU
CC Cas	56928.37710	0.00148	Sec	C	RF34/135	RU
CC Cas	57315.47827	0.00308	Sec	C	RF34/135	RU
CR Cas	57019.35147	0.00017	Prim	R	BOOTES 2	MM
CR Cas	57046.33173	0.00049	Sec	R	BOOTES 2	MM
V649 Cas	56897.43889	0.00142	Sec	C	RF34/135	RU
V649 Cas	57319.49920	0.00021	Prim	V	RF34/135	RU
V649 Cas	57349.35357	0.00366	Sec	V	RF34/135	RU
V649 Cas	57594.48070	0.00094	Prim	C	RF34/135	RU
V649 Cas	57600.44068	0.00438	Sec	V	RF34/135	RU
V745 Cas	56932.48742	0.00219	Sec	R	RF34/135	RU
V745 Cas	56937.41702	0.00213	Prim	C	RF34/135	RU
V745 Cas	56963.51877	0.00228	Sec	C	RF34/135	RU
V745 Cas	56978.34873	0.00178	Prim	C	RF34/135	RU
V745 Cas	57021.37427	0.00595	Sec	C	RF34/135	RU
V745 Cas	57248.47677	0.00285	Sec	R	N200/1000	RU
V745 Cas	57260.45208	0.00079	Prim	R	N200/1000	RU
V745 Cas	57595.45386	0.00188	Sec	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
V745 Cas	57643.44207	0.00106	Sec	C	RF34/135	RU
V745 Cas	57645.55849	0.00085	Prim	C	RF34/135	RU
V776 Cas	56924.37305	0.00082	Prim	C	RF34/135	RU
V776 Cas	56930.31908	0.00145	Sec	C	RF34/135	RU
V776 Cas	57329.55795	0.00289	Prim	C	RF34/135	RU
V776 Cas	57333.30118	0.00150	Sec	C	RF34/135	RU
V776 Cas	57615.38517	0.00039	Prim	C	RF34/135	RU
V776 Cas	57751.25147	0.00072	Sec	C	RF34/135	RU
V779 Cas	57271.32359	0.00026	Prim	R	RF34/135	RU
V779 Cas	57722.42202	0.00022	Prim	C	RF34/135	RU
V791 Cas	56929.45181	0.00091	Prim	C	RF34/135	RU
V791 Cas	57297.50070	0.00307	Sec	C	RF34/135	RU
V791 Cas	57365.34497	0.00066	Prim	C	RF34/135	RU
V791 Cas	57707.43465	0.00342	Sec	C	RF34/135	RU
V793 Cas	57706.28343	0.00079	Sec	C	RF34/135	RU
V793 Cas	57753.36000	0.00035	Prim	C	RF34/135	RU
U Cep	56928.48825	0.00182	Sec	C	RF34/135	RU
U Cep	57226.42750	0.00160	Prim	C	RF34/135	RU
U Cep	57580.45131	0.00018	Prim	C	RF34/135	RU
VW Cep	57266.35347	0.00093	Prim	C	RF34/135	RU
VW Cep	57266.49507	0.00038	Sec	C	RF34/135	RU
VW Cep	57504.30706	0.00024	Prim	R	RF34/135	PS
VW Cep	57504.44832	0.00017	Sec	R	RF34/135	PS
VW Cep	57504.58571	0.00015	Prim	R	RF34/135	PS
ZZ Cep	57275.37789	0.00027	Prim	C	RF34/135	RU
ZZ Cep	57519.54539	0.00014	Prim	C	RF34/135	RU
CW Cep	57640.52325	0.00099	Prim	BVR	RF34/135	PS
CW Cep	57644.56422	0.00151	Sec	BVR	RF34/135	PS
NN Cep	57640.42498	0.00142	Sec	BVR	RF34/135	PS
NN Cep	57644.54341	0.00145	Sec	BVR	RF34/135	PS
V383 Cep	57142.52748	0.00127	Sec	C	RF34/135	RU
V442 Cep	56898.48506	0.00160	Sec	R	RF34/135	RU
V442 Cep	56963.41550	0.00235	Prim	V	RF34/135	RU
V442 Cep	57261.51094	0.00089	Prim	V	RF34/135	RU
V442 Cep	57275.34980	0.00153	Sec	R	RF34/135	RU
V442 Cep	57277.46716	0.00065	Sec	R	RF34/135	RU
V442 Cep	57590.43758	0.00379	Sec	R	RF34/135	RU
V453 Cep	57626.39066	0.00047	Prim	R	RF34/135	RU
V453 Cep	57629.34930	0.00049	Sec	R	RF34/135	RU
V839 Cep	56963.46425	0.00255	Sec	R	N200/1000	RU
V839 Cep	56978.31412	0.00035	Prim	R	N200/1000	RU
V839 Cep	57262.40168	0.00057	Sec	R	N200/1000	RU
RW Com	57828.46856	0.00009	Sec	R	WHOO	HK
KK Com	57116.37305	0.00046	Prim	R	N200/1000	RU
KK Com	57425.51909	0.00194	Sec	C	RF34/135	RU
KK Com	57465.56964	0.00099	Prim	C	RF34/135	RU
KK Com	57772.58611	0.00102	Sec	C	RF34/135	RU
KK Com	57811.56060	0.00080	Prim	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
KR Com	57070.63406	0.00165	Sec	I	N200/1000	RU
KR Com	57123.46766	0.00149	Prim	C	RF34/135	RU
KR Com	57385.59971	0.00039	Sec	C	RF34/135	RU
KR Com	57435.56923	0.00060	Prim	B	N150/600	MM
KR Com	57442.50524	0.00228	Prim	C	RF34/135	RU
KR Com	57757.65105	0.00375	Sec	C	RF34/135	RU
KR Com	57798.65387	0.00022	Prim	B	N150/600	MM
VV Crv	54930.95021	0.00897	Sec	BVRI	RF34/135	RU
VV Crv	54932.60208	0.00834	Prim	VRI	RF34/135	RU
VV Crv	55275.33222	0.00491	Prim	I	RF34/135	RU
VV Crv	55276.85347	0.00264	Sec	I	RF34/135	RU
VV Crv	55619.61631	0.00297	Sec	BVRI	RF34/135	RU
VV Crv	55649.52548	0.00398	Prim	BVRI	RF34/135	RU
VV Crv	55680.96073	0.00852	Prim	BVRI	RF34/135	RU
VV Crv	56012.67849	0.00117	Sec	C	RF34/135	RU
VV Crv	56048.88192	0.00209	Prim	C	RF34/135	RU
VV Crv	56061.46023	0.00309	Prim	C	RF34/135	RU
VV Crv	56355.47092	0.00090	Sec	C	RF34/135	RU
VV Crv	56388.48566	0.00404	Prim	C	RF34/135	RU
VV Crv	56737.52416	0.00409	Prim	I	RF34/135	RU
VV Crv	56761.06633	0.00209	Sec	I	RF34/135	RU
VV Crv	57086.56072	0.00375	Prim	I	RF34/135	RU
VV Crv	57127.44313	0.00185	Prim	C	RF34/135	RU
VV Crv	57465.45411	0.00093	Sec	I	RF34/135	RU
VV Crv	57498.47110	0.00222	Prim	I	RF34/135	RU
VV Crv	57773.63260	0.00162	Sec	C	RF34/135	RU
VV Crv	57825.53062	0.00186	Prim	C	RF34/135	RU
RV Crt	57423.55434	0.00059	Sec	C	RF34/135	RU
RV Crt	57800.46045	0.00126	Sec	C	RF34/135	RU
RV Crt	57824.45351	0.00205	Prim	C	RF34/135	RU
CG Cyg	56932.41467	0.00018	Prim	R	N200/1000	RU
CG Cyg	57214.53610	0.00018	Prim	R	N200/1000	RU
CG Cyg	57241.35862	0.00032	Sec	R	N200/1000	RU
CG Cyg	57631.40555	0.00025	Sec	R	N200/1000	RU
CG Cyg	57632.35286	0.00005	Prim	R	N200/1000	RU
V367 Cyg	57262.47641	0.00239	Sec	C	RF34/135	RU
V729 Cyg	57261.50676	0.00587	Sec	R	N200/1000	RU
V1191 Cyg	57199.52758	0.00019	Prim	R	N200/1000	RU
V1191 Cyg	57207.52166	0.00021	Sec	C	N150/750	RU
V1191 Cyg	57615.40201	0.00027	Prim	R	N200/1000	RU
V1191 Cyg	57666.33313	0.00037	Sec	R	N200/1000	RU
V2083 Cyg	56924.44975	0.00054	Sec	C	RF34/135	RU
V2083 Cyg	57105.59956	0.00024	Sec	R	RF34/135	RU
V2083 Cyg	57178.43170	0.00026	Sec	I	N200/1000	RU
V2083 Cyg	57205.50692	0.00075	Prim	C	RF34/135	RU
V2083 Cyg	57500.57312	0.00037	Prim	R	RF34/135	RU
V2154 Cyg	56933.35313	0.00018	Prim	C	RF34/135	RU
V2154 Cyg	57296.38078	0.00017	Prim	R	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
V2165 Cyg	57678.30243	0.00119	Sec	C	RF34/135	RU
V2169 Cyg	57206.44491	0.00064	Prim	C	RF34/135	RU
V2169 Cyg	57531.51851	0.00052	Sec	R	N200/1000	RU
V2247 Cyg	56919.48919	0.00076	Sec	R	N200/1000	RU
V2247 Cyg	57158.54218	0.00019	Prim	R	N200/1000	RU
V2247 Cyg	57214.38377	0.00065	Sec	R	N200/1000	RU
V2247 Cyg	57586.44568	0.00029	Prim	R	N200/1000	RU
V2247 Cyg	57628.48250	0.00079	Sec	R	N200/1000	RU
V2486 Cyg	56898.38881	0.00025	Prim	R	N200/1000	RU
V2486 Cyg	56905.38814	0.00089	Sec	C	N150/750	RU
V2486 Cyg	57225.47495	0.00055	Prim	C	RF34/135	RU
V2486 Cyg	57547.46912	0.00100	Prim	C	RF34/135	RU
TY Del	57240.52201	0.00272	Sec	C	RF80/400	MM
MR Del	56905.45758	0.00014	Prim	R	N200/1000	RU
MR Del	57166.82372	0.00068	Prim	BVRI	FRAM Nikkor	MM
MR Del	57186.90850	0.00160	Sec	BVRI	FRAM Nikkor	MM
MR Del	57206.47200	0.00024	Prim	R	RF34/135	RU
MR Del	57242.46835	0.00090	Prim	C	RF80/400	MM
MR Del	57291.50774	0.00101	Prim	BVRI	FRAM 0.3m	MM
MR Del	57579.48061	0.00019	Prim	C	RF34/135	RU
RR Dra	57173.38354	0.00013	Prim	R	OND65	HK
RR Dra	57824.57730	0.00008	Prim	R	OND65	HK
TW Dra	57102.51481	0.00059	Sec	I	N200/1000	RU
TW Dra	57154.44061	0.00108	Prim	C	RF34/135	RU
TW Dra	57474.41226	0.00042	Prim	C	RF34/135	RU
TW Dra	57481.43742	0.00287	Sec	C	RF34/135	RU
WW Dra	57106.60865	0.00249	Sec	R	RF34/135	RU
WW Dra	57576.52784	0.00257	Prim	C	RF34/135	RU
WW Dra	57775.61272	0.00046	Prim	C	RF34/135	RU
BH Dra	57125.46070	0.00028	Prim	R	N200/1000	RU
BH Dra	57326.26050	0.00077	Sec	C	RF34/135	RU
BH Dra	57482.53412	0.00239	Sec	C	RF34/135	RU
BV Dra	57464.44922	0.00023	Sec	R	RF34/135	RU
BV Dra	57465.32536	0.00016	Prim	R	RF34/135	PS
CM Dra	57464.56100	0.00009	Sec	R	N200/1000	RU
GQ Dra	57128.45915	0.00072	Prim	C	N150/750	RU
GQ Dra	57453.58250	0.00110	Sec	C	RF34/135	RU
GQ Dra	57481.54032	0.00027	Prim	C	RF34/135	RU
GQ Dra	57775.64630	0.00021	Prim	R	N200/1000	RU
GZ Dra	57520.42326	0.00073	Prim	C	RF34/135	RU
GZ Dra	57600.41500	0.00400	Sec	C	RF34/135	RU
HI Dra	57099.58018	0.00035	Prim	R	RF34/135	RU
HI Dra	57207.41378	0.00325	Sec	C	RF34/135	RU
HI Dra	57329.28775	0.00089	Sec	C	RF34/135	RU
HI Dra	57531.50138	0.00157	Prim	C	RF34/135	RU
HI Dra	57563.47626	0.00075	Sec	C	RF34/135	RU
KP Eri	56934.63049	0.00042	Prim	C	N150/750	RU
KP Eri	57340.49702	0.00099	Sec	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
KP Eri	57396.35240	0.00039	Prim	R	N200/1000	RU
KP Eri	57690.51367	0.00105	Sec	C	RF34/135	RU
KP Eri	57731.47282	0.00065	Prim	C	RF34/135	RU
FT Gem	57476.36579	0.00027	Prim	R	OND65	PZ
V335 Gem	56949.53643	0.00069	Prim	R	N150/750	RU
V335 Gem	57338.44660	0.00045	Prim	C	RF34/135	RU
V335 Gem	57773.32575	0.00099	Prim	C	RF34/135	RU
AD Her	57616.39552	0.00409	Prim	C	RF34/135	RU
AK Her	57122.47748	0.00039	Sec	C	RF34/135	RU
AK Her	57145.44971	0.00023	Prim	C	RF34/135	RU
AK Her	57580.46220	0.00053	Prim	R	N200/1000	RU
V624 Her	57137.58638	0.00082	Prim	C	RF34/135	RU
V624 Her	57215.49509	0.00270	Prim	C	RF34/135	RU
V624 Her	57589.41545	0.00049	Prim	V	RF34/135	RU
V819 Her	56923.33716	0.00216	Prim	C	RF34/135	RU
V819 Her	57090.55324	0.00179	Prim	I	RF34/135	RU
V819 Her	57128.44886	0.00409	Prim	C	RF34/135	RU
V819 Her	57158.55358	0.00067	Sec	I	RF34/135	RU
V822 Her	57137.53655	0.00059	Sec	R	RF34/135	RU
V822 Her	57153.53908	0.00135	Prim	R	RF34/135	RU
V822 Her	57498.53873	0.00063	Prim	I	N200/1000	RU
V822 Her	57514.53672	0.00046	Sec	C	RF34/135	RU
V994 Her A	57470.65283	0.00173	Sec	C	RF34/135	RU
V994 Her A	57494.58898	0.00041	Prim	C	RF34/135	RU
V994 Her A	57589.41355	0.00032	Sec	I	N200/1000	RU
V994 Her A	57590.41983	0.00029	Prim	I	N200/1000	RU
V994 Her B	57473.60366	0.00113	Sec	C	RF34/135	RU
V994 Her B	57547.44882	0.00115	Sec	R	RF34/135	RU
V994 Her B	57576.45406	0.00110	Prim	R	RF34/135	RU
RX Hya	57379.53239	0.00089	Prim	C	RF34/135	RU
RX Hya	57387.51115	0.00289	Sec	R	RF34/135	RU
RX Hya	57760.57873	0.00019	Prim	C	RF34/135	RU
OZ Hya	57464.41241	0.00074	Prim	R	N200/1000	RU
OZ Hya	57800.40859	0.00122	Prim	C	RF34/135	RU
OZ Hya	57805.49411	0.00199	Sec	C	RF34/135	RU
OW Hya	57772.51112	0.00228	Prim	I	RF34/135	RU
V394 Lac	57235.44596	0.00196	Sec	R	RF34/135	RU
V394 Lac	56905.45185	0.00759	Sec	C	RF34/135	RU
V394 Lac	57335.30521	0.00121	Prim	C	RF34/135	RU
V401 Lac	57190.46729	0.00064	Sec	C	RF34/135	RU
V401 Lac	57234.42453	0.00028	Prim	R	N150/750	RU
V401 Lac	57701.37930	0.00047	Sec	C	RF34/135	RU
V402 Lac	57179.48098	0.00085	Sec	I	N150/750	RU
V402 Lac	57203.50507	0.00106	Prim	C	RF34/135	RU
TX Leo	57057.58417	0.00130	Prim	I	RF34/135	RU
TX Leo	57722.63791	0.00209	Prim	C	RF34/135	RU
XY Leo	57828.33069	0.00039	Sec	R	WHOO	HK
AM Leo	57380.62412	0.00029	Prim	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
AM Leo	57799.46145	0.00039	Prim	C	RF34/135	RU
AM Leo	57799.64437	0.00056	Sec	C	RF34/135	RU
VW LMi	57499.41168	0.00021	Sec	R	CTA FRAM	MM
IV Lib	57518.55237	0.00485	Prim	R	N200/1000	RU
δ Lib	57100.49054	0.00039	Sec	I	RF34/135	RU
δ Lib	57178.45985	0.00079	Prim	I	RF34/135	RU
δ Lib	57519.41274	0.00132	Sec	I	RF34/135	RU
TZ Lyr	57199.41659	0.00040	Sec	R	N200/1000	RU
TZ Lyr	57204.44226	0.00049	Prim	R	N200/1000	RU
TZ Lyr	57571.44607	0.00006	Prim	R	N200/1000	RU
TZ Lyr	57576.47118	0.00035	Sec	R	N200/1000	RU
RR Men	51947.10248	0.00096	Prim	V	ASAS	
RR Men	52178.46478	0.00166	Prim	V	ASAS	
RR Men	52609.99319	0.00218	Prim	V	ASAS	
RR Men	52986.93739	0.00325	Prim	V	ASAS	
RR Men	53670.62160	0.00238	Prim	V	ASAS	
RR Men	54341.30542	0.00137	Prim	V	ASAS	
RR Men	54884.60647	0.00095	Prim	V	ASAS	
V498 Mon	57410.42173	0.00032	Prim	C	N150/600	MM
V684 Mon	57021.40412	0.00069	Prim	R	N200/1000	RU
V684 Mon	57057.48184	0.00224	Sec	R	RF34/135	RU
V684 Mon	57329.63000	0.00136	Sec	C	N150/750	RU
V684 Mon	57367.62760	0.00176	Prim	C	RF34/135	RU
V684 Mon	57380.57738	0.00179	Prim	R	RF34/135	RU
V684 Mon	57396.29085	0.00109	Sec	R	RF34/135	RU
V684 Mon	57419.45872	0.00169	Prim	C	RF34/135	RU
V684 Mon	57420.35420	0.00085	Sec	C	RF34/135	RU
V684 Mon	57666.59620	0.00045	Sec	C	RF34/135	RU
V684 Mon	57704.57798	0.00198	Prim	C	RF34/135	RU
V684 Mon	57755.46345	0.00075	Sec	C	RF34/135	RU
V684 Mon	57806.40716	0.00099	Prim	C	RF34/135	RU
V727 Mon	57364.52452	0.00306	Sec	C	RF34/135	RU
V727 Mon	57750.58751	0.00215	Prim	C	RF34/135	RU
V730 Mon	57319.55860	0.00075	Sec	R	N200/1000	RU
V730 Mon	57326.55368	0.00069	Prim	C	RF34/135	RU
V730 Mon	57753.51845	0.00268	Sec	C	RF34/135	RU
V730 Mon	57772.39066	0.00109	Sec	R	N200/1000	RU
V879 Mon	57328.60023	0.00052	Sec	C	N150/750	RU
V879 Mon	57443.41264	0.00055	Prim	C	RF34/135	RU
V879 Mon	57725.51438	0.00018	Prim	C	RF34/135	RU
V879 Mon	57783.47199	0.00046	Sec	C	RF34/135	RU
V920 Mon	56963.58526	0.00109	Prim	R	N150/750	RU
V931 Mon	57070.34770	0.00015	Prim	R	N200/1000	RU
V931 Mon	57701.64121	0.00205	Prim	C	RF34/135	RU
V931 Mon	57783.37771	0.00099	Prim	C	RF34/135	RU
V931 Mon	57803.37596	0.00229	Sec	C	RF34/135	RU
U Oph	57178.46744	0.00019	Sec	C	RF34/135	RU
U Oph	57563.41530	0.00019	Prim	R	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
U Oph	57589.41646	0.00021	Sec	C	RF34/135	RU
V2388 Oph	56897.37594	0.00089	Sec	I	RF34/135	RU
V2388 Oph	57101.55935	0.00040	Prim	I	RF34/135	RU
V2388 Oph	57154.50843	0.00062	Prim	I	RF34/135	RU
V2388 Oph	57248.37630	0.00029	Prim	R	RF34/135	RU
V2388 Oph	57295.30810	0.00082	Sec	I	N200/1000	RU
V2388 Oph	57499.49379	0.00152	Prim	R	RF34/135	RU
V2610 Oph	57100.60414	0.00086	Sec	C	RF34/135	RU
V2610 Oph	57116.59558	0.00053	Prim	R	N200/1000	RU
V2610 Oph	57197.41717	0.00089	Sec	C	RF34/135	RU
V2610 Oph	57198.48345	0.00058	Prim	C	RF34/135	RU
V2610 Oph	57483.60300	0.00079	Sec	C	RF34/135	RU
V2610 Oph	57499.59241	0.00252	Prim	C	RF34/135	RU
V2610 Oph	57514.52155	0.00219	Prim	R	N200/1000	RU
ER Ori	57383.32499	0.00046	Prim	C	RF34/135	RU
ER Ori	57383.53526	0.00042	Sec	C	RF34/135	RU
ER Ori	57440.27325	0.00039	Sec	C	RF34/135	RU
ER Ori	57701.51282	0.00016	Sec	C	RF34/135	RU
ER Ori	57708.49935	0.00062	Prim	C	RF34/135	RU
V1031 Ori	57060.33323	0.00173	Prim	R	RF34/135	RU
V1031 Ori	57327.68783	0.00539	Sec	C	RF34/135	RU
V1031 Ori	57438.35058	0.00268	Prim	C	RF34/135	RU
V1031 Ori	57700.58008	0.00085	Prim	C	RF34/135	RU
V1031 Ori	57799.34091	0.00043	Prim	C	RF34/135	RU
V1804 Ori	56963.64495	0.00142	Prim	R	RF34/135	RU
V1804 Ori	57323.58178	0.00129	Sec	R	N200/1000	RU
V1834 Ori	56959.62807	0.00066	Prim	I	N150/750	RU
V1834 Ori	57414.31059	0.00079	Prim	I	N200/1000	RU
V1834 Ori	57750.42345	0.00109	Sec	C	RF34/135	RU
V1834 Ori	57772.32098	0.00148	Prim	C	RF34/135	RU
δ Ori	57730.53455	0.00349	Sec	C	RF34/135	RU
η Ori	56978.40949	0.00159	Sec	I	RF34/135	RU
η Ori	57030.29569	0.00172	Prim	C	RF34/135	RU
η Ori	57713.42116	0.00219	Sec	I	RF34/135	RU
η Ori	57749.36805	0.00349	Prim	C	RF34/135	RU
η Ori	57801.32601	0.00127	Sec	C	RF34/135	RU
η Ori	57805.32354	0.00204	Prim	C	RF34/135	RU
η Ori	57825.31116	0.00119	Sec	C	RF34/135	RU
KP Peg	57334.28120	0.00069	Prim	C	RF34/135	RU
PU Peg	57240.50518	0.00165	Sec	C	RF34/135	RU
PU Peg	57625.37803	0.00055	Prim	R	N200/1000	RU
V415 Peg	57631.47240	0.00360	Prim	C	RF34/135	RU
V416 Peg	56898.45190	0.00095	Prim	C	N150/750	RU
V416 Peg	56930.50872	0.00087	Sec	C	RF34/135	RU
V416 Peg	57210.48062	0.00056	Prim	C	N150/750	RU
V416 Peg	57215.46260	0.00039	Sec	R	N200/1000	RU
V416 Peg	57235.40686	0.00069	Sec	R	N200/1000	RU
V416 Peg	57237.56027	0.00029	Prim	R	N200/1000	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
V416 Peg	57242.54139	0.00159	Sec	C	RF34/135	RU
V416 Peg	57245.37920	0.00273	Sec	R	RF34/135	RU
V416 Peg	57262.47201	0.00148	Sec	R	RF34/135	RU
V416 Peg	57272.45614	0.00152	Sec	C	RF34/135	RU
V416 Peg	57277.44871	0.00035	Prim	R	N200/1000	RU
V416 Peg	57279.58258	0.00186	Sec	R	RF34/135	RU
V416 Peg	57282.42824	0.00089	Sec	R	RF34/135	RU
V416 Peg	57287.41705	0.00050	Prim	R	N200/1000	RU
V416 Peg	57574.51519	0.00192	Sec	C	RF34/135	RU
V416 Peg	57626.52319	0.00032	Prim	C	RF34/135	RU
ST Per	56928.39653	0.00059	Prim	R	N200/1000	RU
ST Per	57320.35001	0.00045	Prim	R	N200/1000	RU
ST Per	57627.55673	0.00055	Prim	R	N200/1000	RU
AG Per	56930.43280	0.00044	Sec	I	N200/1000	RU
AG Per	56933.51403	0.00037	Prim	C	RF34/135	RU
AG Per	57287.48746	0.00127	Sec	I	N150/750	RU
AG Per	57345.34642	0.00125	Prim	R	RF34/135	RU
AG Per	57643.57490	0.00020	Prim	R	RF34/135	RU
AG Per	57646.56982	0.00075	Sec	V	RF34/135	RU
EX Per	56937.58542	0.00355	Prim	C	N150/750	RU
EX Per	57666.49223	0.00065	Prim	R	N200/1000	RU
IQ Per	56928.53916	0.00013	Sec	R	N200/1000	RU
IQ Per	56950.40749	0.00011	Prim	R	N200/1000	RU
IQ Per	57248.54925	0.00047	Prim	C	RF34/135	RU
IQ Per	57275.51001	0.00165	Sec	C	RF34/135	RU
IQ Per	57712.34283	0.00092	Prim	C	RF34/135	RU
IQ Per	57746.26745	0.00029	Sec	C	RF34/135	RU
V482 Per	57812.36409	0.00065	Sec	C	RF34/135	RU
V593 Per	57296.49581	0.00389	Sec	C	RF34/135	RU
V593 Per	57721.48158	0.00106	Sec	C	RF34/135	RU
V736 Per	57276.54158	0.00149	Sec	R	N200/1000	RU
V736 Per	57632.49618	0.00189	Prim	C	RF34/135	RU
V871 Per	56950.57815	0.00039	Sec	C	BOOTES-1	MM
β Per	56927.33940	0.00046	Prim	C	RF34/135	RU
SZ Psc	57723.35242	0.00109	Prim	C	RF34/135	RU
AQ Psc	56933.48646	0.00021	Prim	C	N150/750	RU
AQ Psc	56950.36976	0.00014	Sec	C	RF34/135	RU
AQ Psc	57260.45972	0.00042	Sec	C	RF34/135	RU
AQ Psc	57355.34642	0.00029	Prim	C	RF34/135	RU
AQ Psc	57700.39735	0.00089	Sec	C	RF34/135	RU
AQ Psc	57714.42755	0.00029	Prim	C	RF34/135	RU
ET Psc	56924.37692	0.00046	Prim	C	N150/750	RU
ET Psc	56924.59795	0.00039	Sec	C	N150/750	RU
ET Psc	57275.59438	0.00078	Sec	R	N200/1000	RU
ET Psc	57318.42746	0.00055	Prim	C	RF34/135	RU
ET Psc	57644.38305	0.00045	Prim	C	RF34/135	RU
ET Psc	57644.60808	0.00040	Sec	C	RF34/135	RU
EU Psc	56958.54699	0.00350	Sec	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
EU Psc	57261.50830	0.00056	Sec	C	RF34/135	RU
EU Psc	57367.30837	0.00089	Prim	C	RF34/135	RU
EU Psc	57736.29842	0.00049	Prim	C	RF34/135	RU
PV Pup	57359.58988	0.00051	Sec	C	RF34/135	RU
PV Pup	57731.59474	0.00159	Sec	C	RF34/135	RU
PV Pup	57751.52412	0.00085	Sec	C	RF34/135	RU
PV Pup	57830.45504	0.00165	Prim	C	RF34/135	RU
U Sge	57126.52026	0.00032	Prim	C	RF34/135	RU
U Sge	57623.47720	0.00019	Prim	C	RF34/135	RU
UZ Sge	57190.53396	0.00005	Prim	R	BOOTES 2	MM
V338 Sge	57202.46430	0.00165		C	RF34/135	RU
V505 Sgr	57167.90453	0.00026	Prim	N	FRAM Nikkor	MM
V505 Sgr	57197.47642	0.00015	Prim	R	RF34/135	RU
V505 Sgr	57242.42389	0.00027	Prim	R	N150/750	RU
V505 Sgr	57579.53596	0.00032	Prim	V	N200/1000	RU
V505 Sgr	57611.47330	0.00023	Prim	R	RF34/135	RU
PS Ser	57516.44694	0.00234	Sec	C	RF34/135	RU
V413 Ser	57204.44837	0.00455	Sec	C	RF34/135	RU
V413 Ser	57213.47345	0.00068	Sec	C	N150/750	RU
V413 Ser	57518.53900	0.00032	Sec	C	RF34/135	RU
V413 Ser	57569.45115	0.00085	Prim	C	RF34/135	RU
CD Tau	57338.60148	0.00019	Prim	C	RF34/135	RU
CD Tau	57364.36593	0.00012	Sec	C	RF34/135	RU
CD Tau	57783.45115	0.00052	Sec	C	RF34/135	RU
V1128 Tau	56934.44458	0.00025	Prim	C	RF34/135	RU
V1128 Tau	57329.44275	0.00019	Sec	R	RF34/135	RU
V1128 Tau	57329.59476	0.00023	Prim	R	RF34/135	RU
V1128 Tau	57713.29580	0.00029	Sec	C	RF34/135	RU
V1128 Tau	57713.44696	0.00066	Prim	C	RF34/135	RU
V1154 Tau	56922.57218	0.00090	Sec	C	RF34/135	RU
V1154 Tau	57333.60704	0.00043	Prim	C	RF34/135	RU
V1154 Tau	57366.32372	0.00055	Sec	C	RF34/135	RU
V1154 Tau	57722.54568	0.00030	Prim	R	N200/1000	RU
V1154 Tau	57755.26860	0.00029	Sec	C	RF34/135	RU
ξ Tau	57332.40573	0.00328	Sec	C	RF34/135	RU
ξ Tau	57632.58156	0.00262	Prim	I	RF34/135	RU
ξ Tau	57700.49745	0.00166	Sec	I	RF34/135	RU
ξ Tau	57725.50262	0.00137	Prim	C	RF34/135	RU
λ Tau	57332.45941	0.00158	Prim	I	RF34/135	RU
λ Tau	57755.42912	0.00175	Prim	V	RF34/135	RU
λ Tau	57757.42626	0.00115	Sec	C	RF34/135	RU
RS Tri	57018.21795	0.00038	Prim	R	N200/1000	RU
RS Tri	57329.37038	0.00015	Prim	C	N150/750	RU
RS Tri	57640.52303	0.00015	Prim	R	N200/1000	RU
W UMa	57105.31954	0.00030	Prim	C	RF34/135	RU
W UMa	57105.48814	0.00075	Sec	C	RF34/135	RU
W UMa	57425.44007	0.00014	Sec	C	RF34/135	RU
W UMa	57439.28452	0.00032	Prim	C	RF34/135	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
W UMa	57774.41891	0.00015	Sec	C	RF34/135	RU
W UMa	57774.58562	0.00025	Prim	C	RF34/135	RU
AC UMa	56978.54040	0.00195	Prim	R	N200/1000	RU
AC UMa	57122.48553	0.00039	Prim	R	N200/1000	RU
AC UMa	57410.39441	0.00296	Prim	R	N200/1000	RU
AW UMa	57102.47289	0.00032	Sec	C	RF34/135	RU
AW UMa	57439.40772	0.00042	Sec	C	RF34/135	RU
AW UMa	57470.33081	0.00055	Prim	C	RF34/135	RU
AW UMa	57756.60570	0.00025	Sec	C	RF34/135	RU
AW UMa	57772.61842	0.00038	Prim	R	N200/1000	RU
DN UMa	57037.54014	0.00197	Prim	V	RF34/135	RU
DN UMa	57128.36887	0.00097	Sec	V	RF34/135	RU
DN UMa	57383.60612	0.00119	Prim	C	RF34/135	RU
DN UMa	57461.48686	0.00056	Prim	R	RF34/135	PS
DN UMa	57481.37791	0.00059	Sec	C	RF34/135	RU
DN UMa	57499.55696	0.00068	Prim	R	RF34/135	PS
DN UMa	57749.59087	0.00135	Sec	C	RF34/135	RU
DN UMa	57762.56913	0.00172	Prim	C	RF34/135	RU
DN UMa	57775.55669	0.00093	Sec	V	RF34/135	RU
DN UMa	57828.32514	0.00099	Prim	R	RF34/135	PS
GT UMa	57037.53767	0.00094	Prim	C	RF34/135	RU
GT UMa	57132.45950	0.00123	Sec	R	RF34/135	RU
GT UMa	57383.45435	0.00022	Prim	R	RF34/135	RU
GT UMa	57499.34359	0.00042	Sec	C	RF34/135	RU
GT UMa	57776.54454	0.00035	Sec	C	RF34/135	RU
GT UMa	57814.39262	0.00049	Prim	C	RF34/135	RU
HR UMa	57070.62708	0.00049	Sec	R	RF34/135	RU
HR UMa	57090.52777	0.00028	Prim	R	N200/1000	RU
HR UMa	57102.32206	0.00048	Prim	C	RF34/135	RU
HR UMa	57387.56550	0.00019	Sec	C	RF34/135	RU
HR UMa	57410.41898	0.00062	Prim	C	RF34/135	RU
HR UMa	57760.51764	0.00085	Sec	C	RF34/135	RU
HR UMa	57783.36537	0.00044	Prim	C	RF34/135	RU
II UMa	57091.49087	0.00034	Prim	R	N200/1000	RU
II UMa	57417.45543	0.00065	Prim	C	RF34/135	RU
II UMa	57438.49983	0.00146	Sec	C	RF34/135	RU
II UMa	57773.54640	0.00065	Sec	C	RF34/135	RU
II UMa	57775.60753	0.00029	Prim	C	RF34/135	RU
NU UMa	57060.53093	0.00044	Sec	R	RF34/135	RU
NU UMa	57151.39700	0.00022	Prim	C	RF34/135	RU
NU UMa	57396.49705	0.00049	Sec	R	RF34/135	RU
NU UMa	57476.34028	0.00049	Prim	C	RF34/135	RU
NU UMa	57531.42022	0.00037	Prim	R	RF34/135	PS
NU UMa	57798.55638	0.00032	Sec	C	RF34/135	RU
NU UMa	57823.32660	0.00059	Prim	C	RF34/135	RU
AH Vir	57124.38348	0.00042	Sec	C	RF34/135	RU
AH Vir	57465.48688	0.00046	Sec	C	RF34/135	RU
AH Vir	57480.36048	0.00031	Prim	R	N200/1000	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
AH Vir	57773.57815	0.00049	Sec	C	RF34/135	RU
AH Vir	57821.46227	0.00125	Prim	C	RF34/135	RU
AH Vir	57823.50042	0.00018	Prim	C	RF34/135	RU
DL Vir	57101.56776	0.00125	Prim	C	RF34/135	RU
DL Vir	57134.45601	0.00042	Prim	R	RF34/135	RU
DL Vir	57505.41186	0.00198	Prim	C	RF34/135	RU
DL Vir	57814.54777	0.00070	Prim	C	RF34/135	RU
HT Vir	57073.52224	0.00037	Prim	R	RF34/135	RU
HT Vir	57080.65773	0.00016	Sec	I	N200/1000	RU
HT Vir	57442.67113	0.00017	Sec	C	RF34/135	RU
HT Vir	57480.38048	0.00015	Prim	C	RF34/135	RU
HT Vir	57480.58373	0.00016	Prim	C	RF34/135	RU
HT Vir	57799.58809	0.00025	Prim	C	RF34/135	RU
HT Vir	57820.58475	0.00015	Sec	C	RF34/135	RU
HY Vir	57122.46306	0.00105	Sec	R	RF34/135	RU
HY Vir	57480.39414	0.00067	Sec	C	RF34/135	RU
HY Vir	57536.41250	0.00045	Prim	C	RF34/135	RU
HY Vir	57820.57377	0.00048	Prim	C	RF34/135	RU
LV Vir	57099.51998	0.00046	Sec	C	RF34/135	RU
LV Vir	57480.50713	0.00034	Prim	R	N200/1000	RU
LV Vir	57518.37982	0.00018	Sec	C	RF34/135	RU
LV Vir	57811.54035	0.00179	Sec	C	RF34/135	RU
Z Vul	57220.45186	0.00010	Prim	C	RF34/135	RU
Z Vul	57560.46379	0.00155	Sec	C	RF34/135	RU
Z Vul	57576.41603	0.00017	Prim	C	RF34/135	RU
PS Vul	57628.44440	0.00215	Prim	I	RF34/135	RU
V402 Vul	56898.35984	0.00120	Prim	R	RF34/135	RU
V402 Vul	57179.48989	0.00136	Sec	R	RF34/135	RU
V402 Vul	57206.49162	0.00179	Sec	R	N150/750	RU
BD+03 2482	57751.58187	0.00039	Prim	C	RF34/135	RU
BD+03 2482	57774.49967	0.00059	Sec	C	RF34/135	RU
BD+42 2782	57106.57710	0.00032	Prim	C	RF34/135	RU
BD+42 2782	57153.39965	0.00015	Sec	C	N150/750	RU
BD+42 2782	57498.38010	0.00068	Sec	C	RF34/135	RU
BD+42 2782	57498.56691	0.00038	Prim	C	RF34/135	RU
GSC 01742-01524	56932.40796	0.00022	Sec	C	N150/750	RU
GSC 01742-01524	56945.36540	0.00013	Prim	C	N150/750	RU
GSC 01742-01524	57275.38085	0.00019	Prim	C	N150/750	RU
GSC 01742-01524	57275.55444	0.00042	Sec	C	N150/750	RU
GSC 01742-01524	57722.37025	0.00045	Sec	C	N200/1000	RU
EPIC 202073186	57442.32578	0.00212	Prim	C	RF34/135	RU
EPIC 202073186	57775.46620	0.00055	Prim	R	N200/1000	RU
EPIC 202073186	57829.35812	0.00076	Prim	R	N200/1000	RU
HD 6421	56919.49579	0.00036	Prim	C	N150/750	RU
HD 6421	57282.50515	0.00139	Prim	C	RF34/135	RU
HD 6421	57287.38968	0.00117	Prim	R	RF34/135	RU
HD 6421	57632.48575	0.00152	Prim	R	N200/1000	RU
HD 24105	56932.53974	0.00018	Prim	C	N150/750	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
HD 24105	57345.51264	0.00063	Prim	R	RF34/135	RU
HD 24105	57626.51032	0.00038	Sec	C	RF34/135	RU
HD 24105	57719.33445	0.00040	Prim	C	RF34/135	RU
HD 24105	57760.37801	0.00039	Sec	C	RF34/135	RU
HD 47934	57755.38801	0.00191		C	RF34/135	RU
HD 47934	57764.43911	0.00105		C	RF34/135	RU
HD 55338	56958.58457	0.00038	Prim	C	N150/750	RU
HD 55338	57018.55587	0.00033	Sec	R	N200/1000	RU
HD 55338	57089.42484	0.00032	Prim	R	RF34/135	RU
HD 55338	57387.44084	0.00036	Prim	R	N200/1000	RU
HD 55338	57396.53266	0.00232	Sec	R	N200/1000	RU
HD 55338	57441.35622	0.00045	Sec	R	N200/1000	RU
HD 55338	57714.53652	0.00099	Prim	C	RF34/135	RU
HD 55338	57734.52540	0.00159	Sec	C	RF34/135	RU
HD 55338	57754.51255	0.00192	Prim	C	RF34/135	RU
HD 63238	56963.62196	0.00142	Prim	R	N200/1000	RU
HD 63238	57070.48210	0.00099	Sec	R	N200/1000	RU
HD 63238	57342.66403	0.00069	Prim	C	RF34/135	RU
HD 63238	57751.63409	0.00129	Sec	C	RF34/135	RU
HD 63238	57804.35702	0.00075	Prim	C	RF34/135	RU
HD 73710	57408.52435	0.00387		C	RF34/135	RU
HD 73710	57419.51808	0.00156	Sec	C	RF34/135	RU
HD 73710	57751.59742	0.00537	Sec	C	RF34/135	RU
HD 73710	57798.42790	0.00220	Prim	C	RF34/135	RU
HD 86222	57018.60914	0.00028	Prim	C	RF34/135	RU
HD 86222	57057.59769	0.00052	Sec	R	N200/1000	RU
HD 86222	57102.50930	0.00039	Prim	R	RF34/135	RU
HD 86222	57360.62051	0.00032	Sec	R	RF34/135	RU
HD 86222	57406.51746	0.00040	Prim	C	RF34/135	RU
HD 86222	57749.51557	0.00032	Sec	C	RF34/135	RU
HD 86222	57783.56935	0.00153	Prim	C	RF34/135	RU
HD 86222	57825.51883	0.00096	Sec	R	N200/1000	RU
HD 99666	57037.58886	0.00366	Sec	R	N200/1000	RU
HD 99666	57069.53772	0.00055	Prim	R	RF34/135	RU
HD 99666	57425.57845	0.00053	Prim	C	RF34/135	RU
HD 99666	57749.67580	0.00098	Sec	C	RF34/135	RU
HD 99666	57774.52230	0.00055	Prim	C	RF34/135	RU
HD 178661	56924.37973	0.00059	Prim	C	RF34/135	RU
HD 178661	57141.57980	0.00214	Prim	C	RF34/135	RU
HD 178661	57158.51988	0.00049	Prim	R	N150/750	RU
HD 178661	57205.49676	0.00189	Sec	R	N150/750	RU
HD 178661	57594.45015	0.00022	Prim	C	RF34/135	RU
HD 178661	57692.27027	0.00123	Sec	C	RF34/135	RU
HD 179923	57240.44819	0.00054	Prim	R	N200/1000	RU
HD 179923	57189.51594	0.00039	Prim	C	N150/750	RU
HD 179923	57277.32757	0.00052	Prim	R	N200/1000	RU
HD 179923	57564.46885	0.00089	Prim	C	RF34/135	RU
HD 179923	57626.37406	0.00145	Sec	R	N200/1000	RU

Table 1 – continued from previous page

Star Name	HJD 24.....	Error	Type	Filter	Instrument/Source	Observer
HD 180848	56898.36214	0.00062	Prim	C	N150/750	RU
HD 180848	56904.35399	0.00166	Sec	C	N150/750	RU
HD 180848	56934.28830	0.00040	Prim	R	N200/1000	RU
HD 180848	56934.29587	0.00095	Prim	C	RF34/135	RU
HD 180848	56935.32989	0.00088	Prim	C	RF34/135	RU
HD 180848	56940.27841	0.00095	Sec	R	N200/1000	RU
HD 180848	56959.28244	0.00051	Prim	R	N200/1000	RU
HD 180848	56964.22799	0.00042	Sec	R	N200/1000	RU
HD 180848	57100.64115	0.00089	Sec	R	N200/1000	RU
HD 180848	57105.59207	0.00145	Prim	R	N200/1000	RU
HD 180848	57106.63080	0.00046	Prim	R	N200/1000	RU
HD 180848	57118.60848	0.00098	Prim	R	N200/1000	RU
HD 180848	57119.64412	0.00116	Prim	R	N200/1000	RU
HD 180848	57130.58366	0.00045	Prim	R	N200/1000	RU
HD 180848	57135.53240	0.00150	Sec	C	RF34/135	RU
HD 180848	57141.51755	0.00092	Prim	R	N200/1000	RU
HD 180848	57153.49355	0.00032	Prim	R	N200/1000	RU
HD 180848	57154.53584	0.00058	Prim	R	N200/1000	RU
HD 180848	57159.48090	0.00059	Sec	C	RF34/135	RU
HD 180848	57171.46076	0.00115	Sec	C	RF34/135	RU
HD 180848	57519.52970	0.00024	Prim	R	N200/1000	RU
HD 180848	57576.54340	0.00037	Sec	C	RF34/135	RU
HD 180848	57628.35006	0.00018	Prim	R	N200/1000	RU
HD 180848	57707.23495	0.00036	Sec	C	RF34/135	RU
HD 180848	57713.22293	0.00055	Prim	C	RF34/135	RU
HD 181469	57141.58282	0.00097	Prim	R	N150/750	RU
HD 181469	57297.34139	0.00063	Prim	R	N200/1000	RU
HIP 247	57643.35340	0.00022		R	N200/1000	RU
HIP 247	57661.43653	0.00089		R	N200/1000	RU
HIP 41322	57800.50502	0.00045	Sec	R	N200/1000	RU
HIP 41322	57830.31078	0.00032	Prim	C	RF34/135	RU
KIC 6187893	56955.42094	0.00163	Prim	C	BOOTES-1	MM
KIC 10686876	56954.40782	0.00179	Prim	C	BOOTES-2	MM
TYC 2364-2327-1	57275.46254	0.00049	Sec	R	N200/1000	RU
TYC 2364-2327-1	57297.64044	0.00049	Prim	R	N200/1000	RU
TYC 2364-2327-1	57328.50055	0.00187	Prim	C	N150/750	RU
TYC 2364-2327-1	57329.46691	0.00079	Sec	C	N150/750	RU
TYC 2364-2327-1	57625.52694	0.00039	Prim	R	N200/1000	RU
TYC 2364-2327-1	57713.28526	0.00031	Sec	R	N200/1000	RU
TYC 2364-2327-1	57790.43397	0.00079	Sec	R	N200/1000	RU
TYC 2364-2327-1	57820.33283	0.00275	Prim	C	RF34/135	RU

Explanation of the remarks in the table:

BVRI filters by the specification by Bessell (1990), *C* - unfiltered. Observers: PZ - Petr Zasche, RU - Robert Uhlař, HK - Hana Kučáková, PS - Petr Svoboda, MM - Martin Mašek. Instruments: OND65 - 65 cm telescope in Ondřejov observatory; RF34/135 - 34 mm refractor; N150/750 - 150 mm Newton reflector; N200/1000 - 200 mm Newton reflector; BOOTES-1 - Spain, Nikkor lens 400 mm f/2.8 + CCD G4 16000, BOOTES-2 - Spain, 0.6-m RC f/8 + CCD Andor iXon3 888; WHOO - White Hole Observatory Opava, Meade LX200GPS + CCD ATIK 383L; FRAM Nikkor - Nikkor 300mm G4-16000; N150/600 - Newton 150/600 mm + CCD MII G2-1600; RF80/400 - RF80/400 mm + CCD Meade DSI; FRAM 0.3 m - 0.3 m G2-1600; CTA FRAM - 135 mm lens + G4-16000. The telescope FRAM is part of the Pierre Auger Observatory, located in Malargüe, see e.g. Ebr et al. (2014).

Remarks:

The ephemerides (hence also primary/secondary distinction) were taken from the online “*O – C* gateway” (Paschke & Brát 2006). For the double eclipsing systems their A/B pairs were designated according to the published ephemerides for both pairs. For some of the systems not included in the “*O – C* gateway” the following ephemerides were used:

$$\text{BD+03 2482: HJD} = 2454318.8550 + 9.178400 \cdot E$$

$$\text{GSC 01742-01524: HJD} = 2456564.5490 + 0.345567 \cdot E$$

$$\text{EPIC 202073186: HJD} = 2457829.3581 + 1.224790 \cdot E$$

$$\text{HD 6421: HJD} = 2454520.0760 + 1.627830 \cdot E$$

$$\text{HD 24105: HJD} = 2454214.7257 + 1.262923 \cdot E$$

$$\text{HD 47934: HJD} = 2457764.4300 + 4.530500 \cdot E$$

$$\text{HD 55338: HJD} = 2453023.7644 + 1.211460 \cdot E$$

$$\text{HD 63238: HJD} = 2456758.4240 + 2.849950 \cdot E$$

$$\text{HD 73710: HJD} = 2448296.5500 + 7.220300 \cdot E$$

$$\text{HD 86222: HJD} = 2451234.5236 + 0.987045 \cdot E$$

$$\text{HD 99666: HJD} = 2451999.7190 + 1.014370 \cdot E$$

$$\text{HD 178661: HJD} = 2454954.2120 + 1.540395 \cdot E$$

$$\text{HD 179923: HJD} = 2457564.4695 + 0.878114 \cdot E$$

$$\text{HD 180848: HJD} = 2456486.5038 + 0.520679 \cdot E$$

$$\text{HD 181469: HJD} = 2454961.2200 + 8.652220 \cdot E$$

$$\text{HIP 247: HJD} = 2454160.0700 + 2.260400 \cdot E$$

$$\text{HIP 41322: HJD} = 2451869.2050 + 1.528488 \cdot E$$

$$\text{KIC 6187893: HJD} = 2454954.0762 + 0.789178 \cdot E$$

$$\text{KIC 10686876: HJD} = 2454953.9505 + 2.618412 \cdot E$$

$$\text{TYC 2364-2327-1: HJD} = 2454267.6050 + 1.928731 \cdot E.$$

Acknowledgements:

We would like to thank the “ASAS”, and “PI of the sky” teams for making all of the observations easily public available. We would like to thank the Pierre Auger Collaboration for the use of its facilities. The operation of the robotic telescope FRAM is supported by the EU grant GLORIA (No. 283783 in FP7-Capacities program) and by the grant of the Ministry of Education of the Czech Republic (MSMT-CR LM2015038). The data calibration and analysis related to FRAM telescope is supported by the Ministry of Education of the Czech Republic MSMT-CR (LG15014 and CZ.02.1.01/0.0/0.0/16_013/0001402). This work was also supported by the Czech Science Foundation grant no. GA15-02112S. The use of “O-C gateway” (Paschke & Brát 2006) is also acknowledged.

References:

- Bessell, M. S. 1990, *PASP*, **102**, 1181 DOI
Ebr, J., Janeček, P., Prouza, M., et al. 2014, *Revista Mexicana de Astronomia y Astrofisica Conference Series*, **45**, 114
Kwee, K. K., van Woerden, H., 1956, *BAN*, **12**, 327
Paschke, A., Brát, L., 2006, *OEJV*, **23**, 13
Zasche, P., Wolf, M., Vraštil, J., et al. 2014, *A&A*, **572**, A71 DOI

ERRATUM FOR IBVS 6204

HD 73710 should be HD 73709

Minimum 57480.58373 for HT Vir - should be secondary instead of primary

Zasche, P.