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A LIST OF MINIMA AND MAXIMA TIMINGS

PASCHKE, A.

anton@paschke.com

Abstract: The list contains minima of eclipsing and maxima of pulsating stars. It continues the list published in OEJV 0172 (Paschke 2015).

1 Instruments used

The following telescopes and observatories have been used:
28cm+G2 = 28 cm Newton, G2-402 camera, observatory in Eggerberg, Switzerland
10cm+G2 = 10 cm Lens with 50 cm focal length, Eggerberg, Switzerland
50mm+G1 = 50/135 mm teleobjective, G1 camera, Eggerberg, Switzerland
50mm+G2 = 50/135 mm teleobjective, G2 camera, Cabeca Fundao , Cabo Verde, remote
50mm+ST7 = 50/135 mm teleobjective, SBIG ST-7 camera, Carona TI, Switzerland, remote
Asas = All Sky Automated Survey (Pojmanski et al. 2005).
Catalina = Catalina Sky Survey (Drake et al. 2009).
Tarot = Tarot Calern (Nord, Boer et al. 2001), France
The Moravian instruments G1-300 camera uses a Sony ICX 424AL chip.
The Moravian instruments G2-402 camera uses a KAF 402 chip.
Some observations were made with two remote telescopes on different sites simultaneously.

2 Light elements of studied stars

Table 1 shows the elements. For pulsating stars times of maxima (R) and for eclipsing binary the times of minima are given (primary - p, secondary – s). If the star is eclipsing and listed in the O-C GATE (Paschke & Brat 2006), then the elements are identical to those of the O-C GATE, version April 2017. Column Last modification shows the date when the elements where modified. GSC 1.2 identification are abbreviated to save space in the main table.

Table 1: Light elements of stars.

ID	Const.	kind	HJD [24.....]	P [d]	Last modification
V0376	And	p	48500.742	0.798674	27.03.2017
V0613	And	p	48164.653	0.937904	30.10.2014
V0707	And	p	53260.661	2.588545	24.10.2015
ST	Aqr	p	52170.990	0.780992	31.01.2015
AO	Aqr	p	27386.110	0.4893508	20.07.2015
HV	Aqr	p	48835.774	0.374457	14.10.2015
KX	Aqr	p	47881.297	2.074336	20.10.2016
MO	Aqr	p	51998.469	0.398143	12.02.2012
OO	Aqr	p	52227.514	0.58662	04.10.2016

QS	Aqr	p	52445.749	5.782614	06.10.2016
G5241.00986	Aqr	p	55927.572	0.35943	30.08.2010
V0348	Aql	p	25448.409	0.6658369	06.12.2011
V0414	Aql	p	26946.435	1.620853	05.08.2015
AG	Ari	p	48500.272	1.963115	12.10.2007
BO	Ari	p	51479.658	0.3181945	05.01.2017
BQ	Ari	p	51382.902	0.282335	01.02.2011
AR	Aur	p	27887.727	4.1346662	31.01.2015
BF	Aur	p	40628.374	1.583222	17.11.2015
EO	Aur	p	21190.697	4.065648	26.11.2012
V0432	Aur	p	51571.412	3.08175	02.11.2002
V0437	Aur	p	55985.477	11.79445	12.12.2012
CK	Boo	p	42537.602	0.355152	05.02.2015
ET	Boo	p	48500.440	0.6450403	07.10.2014
i	Boo	p	43615.576	0.2678185	07.10.2014
AO	Cam	p	44559.960	0.3299035	16.12.2015
AS	Cam	p	44939.242	3.4309638	20.02.2013
DI	Cam	p	48501.040	4.165937	19.02.2017
DN	Cam	p	48500.488	0.49831	06.11.2015
DT	Cam	p	48501.370	7.06625	01.12.2015
DV	Cam	p	48751.940	6.67851	04.12.2015
FN	Cam	p	52445.411	0.677136	24.04.2016
CI	CVn	p	48500.518	0.8158745	18.08.2010
TX	CMa	p	42363.504	2.397414	15.12.2013
TZ	CMa	p	27126.782	3.822864	03.05.2004
VW	CMa	p	27924.589	0.7208281	25.07.2008
CW	CMa	p	42090.166	2.11797737	01.06.1996
CX	CMa	p	28095.601	0.9546236	31.03.2006
FM	CMa	p	48501.219	2.78945	02.04.2006
FZ	CMa	p	41742.322	1.273038	23.03.2017
GU	CMa	p	47078.155	1.610133	23.03.2017
IS	CMa	p	48500.349	0.616985	05.03.2017
MV	CMa	p	48500.502	1.31125	27.07.1997
V0419	CMa	p	54526.630	1.27288	14.08.2008
TT	CMi	p	25235.670	0.8455176	21.11.2012
XZ	CMi	p	45404.439	0.578809	27.07.1996
BF	Cap	p	48500.026	0.532676	27.07.1997
BQ	Cap	p	48500.875	1.474088	11.04.2006
CQ	Cap	p	52867.670	0.690802	04.09.2015
TX	Cas	p	29677.207	2.926855	16.02.2009
XX	Cas	p	36527.624	3.067179	05.09.2012
V0368	Cas	p	25554.320	4.451637	07.09.2012
V0766	Cas	p	48501.255	2.33059	31.08.2015
V0779	Cas	p	52144.030	6.353525	09.10.2014
V0794	Cas	p	48502.338	5.392191	02.01.2017

V0742	Cen	p	38493.350	0.8644535	05.04.2017
V0752	Cen	p	44243.695	0.3702276	15.04.2017
V1200	Cen	p	48509.652	2.482874	20.01.2005
V1347	Cen	p	52463.543	1.251973	02.06.2016
RZ	Cep	R	11640.634	0.308666	19.08.2016
AH	Cep	p	34989.414	1.774741	09.09.2013
AI	Cep	p	26550.361	4.22531	14.11.2014
EI	Cep	p	36820.467	8.43935	29.05.2006
NN	Cep	p	44507.403	2.058306	04.06.2006
V0454	Cep	p	48313.100	5.5845	14.11.2005
RR	Cet	R	33181.396	0.5530285	08.05.2007
TX	Cet	p	43082.634	0.740841	05.06.2006
XZ	Cet	R	52143.070	0.823132	17.09.2015
CL	Cet	p	51869.110	0.621622	19.09.2015
CT	Cet	p	48500.185	0.256488	08.06.2006
EE	Cet	p	48500.190	0.379922	22.10.2013
G4686.02061	Cet	p	51904.430	0.631518	06.10.2015
U	CrB	p	16747.986	3.452211	30.05.2016
CV	CrB	p	52080.623	0.315105	06.05.2016
W	Crv	p	39647.764	0.3880813	27.03.2007
SX	Crv	p	41017.456	0.316613	20.04.2017
V	Crt	p	41397.332	0.7020358	25.06.2006
RV	Crt	p	42537.709	1.170501	25.06.2006
TW	Crt	p	48500.724	0.944279	07.04.2016
AC	Crt	p	51871.489	0.617261	08.08.2010
G4920.01092	Crt	p	51871.770	0.825617	21.04.2017
G5501.00909	Crt	p	51870.980	0.4011084	08.04.2016
G6089.01439	Crt	p	51874.150	0.533524	29.01.2010
WW	Cyg	p	40377.940	3.317785	07.08.2016
CG	Cyg	p	45892.452	0.6311435	10.10.2014
V0478	Cyg	p	41602.724	2.880903	07.11.2005
V0836	Cyg	p	44853.490	0.6534132	06.10.2005
V0891	Cyg	p	34663.446	1.905787	05.08.2015
V0909	Cyg	p	50689.688	2.805385	08.08.1998
V1425	Cyg	p	40400.954	1.252387	01.06.1996
V1719	Cyg	R	43776.715	0.2672977	28.09.2012
V0450	Dra	p	51319.120	0.439402	03.09.2016
G3864.01315	Dra	p	56737.442	0.275182	18.04.2017
G3870.01172	Dra	p	51604.890	0.326653	24.02.2017
RT	Equ	R	36809.434	0.44487	26.08.2016
SV	Equ	p	39382.427	0.880971	18.03.1998
UZ	Equ	p	52816.827	0.486702	30.09.2015
ZZ	Eri	p	44244.312	0.45206	23.07.1998
G1337.01137	Gem	p	54482.701	0.475519	26.02.2017
Z	Her	p	13086.345	3.992805	25.09.2016

RX	Her	p	33170.398	1.7785724	01.06.1996
SZ	Her	p	41864.321	0.818096	05.11.2007
VZ	Hya	p	40254.859	2.904301	05.04.2010
FG	Hya	p	48271.611	0.3278324	26.01.2015
FO	Hya	p	31216.150	0.4695567	04.04.2013
LO	Hya	p	44623.785	2.499568	04.08.2015
G4902.01190	Hya	p	51871.030	1.439148	21.04.2016
UV	Leo	p	47615.437	0.60008641	20.09.2014
WY	Leo	p	26024.510	4.985871	16.06.2016
G0234.00844	Leo	p	53362.492	0.341166	21.10.2016
ES	Lib	p	40329.467	0.883041	29.03.2007
DE	Mic	p	52623.549	0.410687	20.01.2005
G9498.00800	Oct	p	54551.596	9.4808	13.08.2016
U	Oph	p	44416.386	1.67734617	01.06.1996
V1010	Oph	p	38937.520	0.661429	04.01.2015
EG	Ori	p	25245.410	1.1631628	06.08.1997
ER	Ori	p	26386.193	0.4234003	06.02.2015
EW	Ori	p	27543.334	6.936848	06.02.2015
V1361	Ori	p	48501.823	2.10833	18.12.2016
V1388	Ori	p	48501.772	2.187068	30.12.2014
V2735	Ori	p	53097.500	1.226673	16.12.2014
V2762	Ori	p	51567.838	1.7801725	05.02.2017
V2778	Ori	p	51629.644	14.3875	20.12.2015
ZZ	Peg	p	25088.856	0.6673559	20.02.2012
EE	Peg	p	45563.892	2.62821423	01.06.1996
RY	Per	p	27070.708	6.8635663	01.06.1996
IZ	Per	p	44577.587	3.687673	01.06.1996
G2869.00639	Per	p	55849.381	0.351673	07.12.2016
UV	Psc	p	43406.523	0.861047	13.12.2003
XZ	PsA	p	52437.798	0.753579	22.10.2016
ZZ	PsA	p	52844.790	0.373893	21.10.2016
BH	Pup	p	21692.523	1.915854	01.06.1996
MQ	Pup	p	44234.565	1.4685665	01.06.1996
MW	Pup	p	28898.420	1.710892	28.02.2017
NO	Pup	p	41361.763	1.256884	26.02.2017
PV	Pup	p	43119.733	1.6607276	21.12.2014
V0405	Pup	p	48500.047	1.567131	03.04.2017
V0505	Sgr	p	44461.555	1.182866	11.08.2016
V1647	Sgr	p	41829.655	3.28279	23.08.2012
V2349	Sgr	p	26916.610	3.40853	01.07.2016
V4197	Sgr	p	53543.504	0.714809	13.07.2016
V4399	Sgr	p	48500.137	2.032435	07.08.2016
V4403	Sgr	p	48501.224	1.70148	27.07.1997
V4437	Sgr	p	48500.602	1.136622	09.08.2016
V5572	Sgr	p	52055.777	1.4398	12.10.2016

V5656	Sgr	p	53522.806	3.70677	14.08.2008
V0499	Sco	p	28340.405	2.333296	15.02.2015
V0700	Sco	p	28066.280	2.346891	07.06.2016
V0701	Sco	p	43574.836	0.7618735	30.08.2007
V0760	Sco	p	54100.329	1.730933	14.06.2016
V0954	Sco	p	48501.045	1.268587	03.07.2016
V1044	Sco	p	53064.836	0.914833	14.11.2005
V1055	Sco	p	48500.256	0.363686	30.01.2010
V1081	Sco	p	48838.078	2.513683	16.06.2016
V1288	Sco	p	52040.789	1.108897	20.01.2005
V1305	Sco	p	52452.597	1.297333	15.02.2015
AL	Scl	p	43698.512	2.445088	01.06.1996
U	Sct	p	44468.660	0.954985	26.08.2016
RS	Sct	p	44437.152	0.6642377	05.11.2013
CW	Sct	p	27978.655	1.7861745	15.07.2016
Y	Sex	p	39529.938	0.4198165	07.02.2015
XX	Sex	p	52314.790	0.540113	14.09.2011
CD	Tau	p	41619.412	3.435137	15.10.2014
EQ	Tau	p	40213.325	0.3413478	22.06.2006
V1121	Tau	p	48500.410	0.8242202	04.01.2015
V1123	Tau	p	48500.367	0.399949	06.02.2011
V1128	Tau	p	48500.062	0.3053722	24.10.2015
V1130	Tau	p	48500.319	0.798868	07.02.2015
V1238	Tau	p	52979.861	1.1217385	19.12.2015
MT	Tel	R	42206.350	0.3168985	17.09.2015
VV	UMa	p	45006.287	0.687376	13.09.2007
GM	UMa	p	48500.776	1.442553	15.04.2017
GT	UMa	p	48500.000	1.164737	23.02.2017
II	UMa	p	48500.073	0.825225	16.10.2014
W	UMi	p	19487.850	1.7011495	07.04.2017
AS	Vel	p	26454.440	1.557885	19.09.2007
PT	Vel	p	48295.295	1.80201	22.09.2007
PT	Vel	p	53119.269	1.8020075	11.05.2007
V0362	Vel	p	48500.256	0.445178	26.04.2017
UW	Vir	p	44345.413	1.810767	14.09.2007
CX	Vir	p	26092.459	0.7460773	03.07.2016
DL	Vir	p	38796.535	1.315488	25.04.2017
DM	Vir	p	43583.881	4.6694335	01.06.1996
FO	Vir	p	45441.711	0.775565	08.06.2016
HT	Vir	p	48760.665	0.407673	19.09.2007
HY	Vir	p	47240.970	2.732336	07.04.2017
LU	Vir	p	48500.448	0.492241	01.02.2012
MS	Vir	p	48500.192	0.3124379	07.02.2016
NS	Vir	p	48500.577	1.291278	13.05.2016
PY	Vir	p	51661.690	0.311248	12.04.2016

V0467	Vir	p	54597.624	0.604572	02.08.2011
Z	Vul	p	42947.478	2.454932	18.01.2010

3 Maxima and minima times

Minimum times were estimated by fitting goniometric polynomials up to order 3 to the data. Table 2 shows maxima and minima of observed stars. The first columns give stellar identification taken from GCVS, NSV and GSC 1.2. The third column (kind) gives the kind of extremum: p = primary, s = secondary, R = maximum. The fourth column gives Julian heliocentric time of the minima decreased by 2400000. It is based on UTC, leap seconds included. Column 'Err' gives the uncertainty of minima time. In the sixth column O-C values in days are given. Column 'Filter' gives information about the passband in which measurements were taken (ccd= unfiltered ccd, V = Johnson visual, R = Cousin red, I = Cousin infrared). N obs is the number of measurements (ccd images) used. Finally, the last column gives instruments used (see s. 1). In some cases the name of the observer is added.

Table 2: Maxima and minima of observed stars

ID	Const.	kind	HJD [24.....]	Err	O-C [d]	Filter	N obs	Instrument	
V0376	And	p	57733.4130	0.0100	- 0.0004	ccd	284	50mm+ST7	
V0376	And	p	57737.4030	0.0080	- 0.0038	ccd	213	50mm+ST7	
V0613	And	p	57320.4640	0.0050	- 0.0076	ccd	125	50mm+G2	
V0707	And	p	57319.5000	0.0080	+ 0.0004	ccd	164	50mm+G2	
ST	Aqr	p	57329.4400	0.0040	- 0.0022	ccd	52	50mm+G2	
AO	Aqr	s	57327.2650	0.0100	- 0.0184	ccd	130	28cm+G2	
HV	Aqr	s	57308.4280	0.0020	+ 0.0025	ccd	108	50mm+G2	
HV	Aqr	s	57669.4080	0.0040	+ 0.0059	ccd	88	50mm+G2	
KX	Aqr	s	57681.4900	0.0090	- 0.0073	ccd	257	50mm+G2	
MO	Aqr	p	57664.4450	0.0050	+ 0.0030	ccd	166	50mm+G2	
OO	Aqr	p	57665.4810	0.0060	- 0.0004	ccd	171	50mm+G2	
QS	Aqr	p	57667.4510	0.0030	+ 0.0016	R	70	50mm+G2	
G5239.00030	Aqr	p	57302.4360	0.0100	+ 0.0074	ccd	96	50mm+G2	
G5239.00030	Aqr	p	57698.3800	0.0100	+ 0.0023	ccd	92	50mm+G2	
G5258.00558	Aqr	p	57310.4680	0.0030	+ 0.0055	ccd	81	50mm+G2	
G5258.00558	Aqr	s	57310.6390	0.0100	+ 0.0125	ccd	78	50mm+G2	
V0348	Aql	s	57220.5020	0.0100	+ 0.0206	ccd	183	28cm+G2	
V0414	Aql	p	57238.5580	0.0040	+ 0.0013	ccd	138	28cm+G2	
AG	Ari	p	57754.3980	0.0050	+ 0.0019	ccd	210	50mm+ST7	
BO	Ari	p	57758.2760	0.0040	+ 0.0041	ccd	62	50mm+ST7	
BQ	Ari	p	57331.4150	0.0030	- 0.0031	ccd	40	50mm+ST7	
BQ	Ari	s	57331.5560	0.0040	- 0.0033	ccd	40	50mm+ST7	
AR	Aur	p	56739.4663	0.0070	+ 0.0386	vis	6	binocular	Dumont Michel
AR	Aur	p	57322.4204	0.0170	+ 0.0047	vis	21	binocular	Dumont Michel
BF	Aur	p	57342.4520	0.0080	+ 0.0033	ccd	267	50mm+ST7	
EO	Aur	s	57775.4430	0.0200	+ 0.0123	ccd	252	50mm+ST7	

EO	Aur	p	57777.4680	0.0100	+	0.0046	ccd	362	50mm+ST7	
V0432	Aur	p	57374.3500	0.0100	+	0.0025	ccd	80	50mm+ST7	
V0437	Aur	s	57358.3500	0.0200	-	0.0006	ccd	180	50mm+ST7	
V0437	Aur	p	57365.4690	0.0100	+	0.0414	ccd	169	50mm+ST7	
CK	Boo	p	57778.5950	0.0080	+	0.0001	ccd	92	50mm+ST7	
ET	Boo	p	57499.4020	0.0100	+	0.0048	ccd	164	50mm+G1-2	
i	Boo	p	57759.6000	0.0100	-	0.0066	ccd	380	50mm+ST7	
AO	Cam	s	57369.2880	0.0030	-	0.0002	ccd	30	50mm+ST7	
AS	Cam	p	57757.3280	0.0080	+	0.0052	ccd	264	50mm+ST7	
DI	Cam	p	57803.5780	0.0100	+	0.0007	ccd	196	50mm+ST7	
DN	Cam	s	57332.2850	0.0050	-	0.0001	ccd	75	50mm+ST7	
DN	Cam	p	57332.5370	0.0050	+	0.0026	ccd	75	50mm+ST7	
DT	Cam	p	57355.3870	0.0100	+	0.0057	ccd	123	50mm+ST7	
DV	Cam	p	57360.5390	0.0080	-	0.0004	ccd	162	50mm+ST7	
DV	Cam	p	57801.3120	0.0100	-	0.0091	ccd	150	50mm+ST7	
FN	Cam	p	57493.4610	0.0070	+	0.0011	ccd	118	50mm+G1	
CI	CVn	s	57754.5720	0.0080	-	0.0026	ccd	135	50mm+ST7	
TX	CMa	p	57776.4720	0.0050	-	0.0066	ccd	118	50mm+G2	
TX	CMa	p	57800.4450	0.0030	-	0.0077	ccd	217	50mm+G2	
TZ	CMa	p	57778.5080	0.0050	+	0.0024	ccd	116	50mm+G2	
TZ	CMa	s	57780.4720	0.0050	+	0.0546	ccd	71	50mm+G2	
VW	CMa	p	57775.4600	0.0050	-	0.0627	ccd	144	50mm+G2	
CW	CMa	p	57822.4950	0.0050	-	0.0066	ccd	187	50mm+G2	
CX	CMa	p	56332.4090	0.0080	-	0.0035	ccd	60	50mm+G1	
FM	CMa	p	57371.6140	0.0200	-	0.0556	ccd	130	50mm+G2	
FZ	CMa	s	57835.4290	0.0050	-	0.0004	ccd	133	50mm+G2	
GU	CMa	p	57835.4610	0.0080	+	0.0074	ccd	244	50mm+G2	
IS	CMa	p	57817.4400	0.0040	+	0.0005	ccd	333	50mm+G2	
MV	CMa	p	57806.4370	0.0040	-	0.0067	ccd	50	50mm+G2	
V0416	CMa	p	57807.4880	0.0030	+	0.0095	ccd	205	50mm+G2	
TT	CMi	p	57724.6910	0.0050	+	0.0072	ccd	150	28cm+G2	
XZ	CMi	p	57733.6570	0.0040	+	0.0078	ccd	44	50mm+ST7	
BF	Cap	p	57285.4490	0.0040	-	0.0023	ccd	165	50mm+G2	
BF	Cap	p	57668.4400	0.0030	-	0.0053	ccd	141	50mm+G2	
BQ	Cap	p	57280.5430	0.0100	-	0.0000	ccd	101	50mm+G2	
CQ	Cap	p	57269.4600	0.0030	-	0.0003	ccd	100	50mm+G2	
TX	Cas	p	57359.4050	0.0300	+	0.0034	ccd	180	50mm+ST7	
XX	Cas	p	57338.4320	0.0004	-	0.0015	ccd	175	50mm+ST7	
V0368	Cas	p	57343.4680	0.0080	+	0.0082	ccd	249	50mm+ST7	
V0766	Cas	s	57265.5260	0.0050	+	0.0876	ccd	204	50mm+ST7	
V0766	Cas	p	57350.4490	0.0100	-	0.0562	ccd	36	50mm+G2	
V0766	Cas	p	57357.4310	0.0050	-	0.0660	ccd	140	50mm+ST7	
V0779	Cas	p	57131.4038	0.0140	-	0.1433	vis	10	binocular	Dumont Michel
V0779	Cas	p	57328.4750	0.0140	-	0.0314	vis	20	binocular	Dumont Michel
V0794	Cas	p	57755.3390	0.0400	+	0.0012	ccd	680	50mm+ST7	

V0742	Cen	p	57848.4650	0.0050	+	0.0011	ccd	78	50mm+G2
V0752	Cen	s	57857.5170	0.0030	-	0.0021	ccd	85	50mm+G2
V1200	Cen	p	57522.4890	0.0100	+	0.0044	ccd	142	50mm+G2
V1347	Cen	p	57541.5460	0.0030	+	0.0004	ccd	64	50mm+G2
RZ	Cep	R	57214.5100	0.0100	-	0.0416	ccd	219	50mm+ST7
AH	Cep	p	57214.4960	0.0080	+	0.0005	ccd	197	50mm+ST7
AI	Cep	p	57327.5190	0.0200	-	0.0000	ccd	114	50mm+ST7
EI	Cep	s	57239.4790	0.0100	+	0.0051	ccd	396	50mm+ST7
NN	Cep	p	57322.4190	0.0100	+	0.0025	ccd	150	50mm+ST7
V0454	Cep	s	57284.5540	0.0300	-	0.0450	ccd	133	50mm+ST7
RR	Cet	R	57694.3950	0.0050	+	0.0107	ccd	175	50mm+G2
TX	Cet	p	57327.5220	0.0020	-	0.0030	ccd	462	28cm+G2
XZ	Cet	R	57282.7070	0.0200	+	0.0008	ccd	110	50mm+G2
CL	Cet	p	57284.6860	0.0200	+	0.0051	ccd	164	50mm+G2
CT	Cet	p	57357.4840	0.0150	-	0.0008	ccd	20	50mm+G2
CT	Cet	p	57700.4040	0.0050	-	0.0053	ccd	196	50mm+G2
EE	Cet	p	57337.5600	0.0100	+	0.0044	ccd	95	50mm+ST7
EE	Cet	p	57722.4200	0.0050	+	0.0034	ccd	85	50mm+ST7
G4686.02061	Cet	s	57301.7000	0.0080	+	0.0012	ccd	190	50mm+G2
G4686.02061	Cet	p	57738.4010	0.0080	+	0.0077	ccd	96	50mm+ST7
U	CrB	p	57525.5060	0.0030	+	0.0037	ccd	113	50mm+G2
CV	CrB	p	57514.5180	0.0070	-	0.0907	ccd	320	28cm+G2
W	Crv	p	57858.4770	0.0030	-	0.0020	ccd	40	50mm+G2
SX	Crv	p	57863.4890	0.0020	+	0.0054	ccd	54	50mm+G2
SX	Crv	s	57863.6460	0.0040	+	0.0041	ccd	51	50mm+G2
V	Crt	p	57828.4840	0.0090	+	0.0038	ccd	59	50mm+ST7
RV	Crt	p	57865.4180	0.0020	-	0.0013	ccd	75	50mm+G2
TW	Crt	p	57485.5390	0.0030	+	0.0003	ccd	129	50mm+G2
TW	Crt	s	57494.5140	0.0100	+	0.0058	ccd	150	50mm+G2
AC	Crt	s	57526.5260	0.0080	+	0.0007	ccd	151	50mm+G2
AC	Crt	p	57856.4540	0.0070	+	0.0023	ccd	89	50mm+G2
G4920.01092	Crt	s	57864.5070	0.0120	-	0.0042	ccd	115	50mm+G2
G5501.00909	Crt	p	57486.4970	0.0070	-	0.0006	ccd	100	50mm+G2
G6089.01439	Crt	p	57489.4640	0.0050	-	0.0261	ccd	123	50mm+G2
WW	Cyg	p	57600.5640	0.0070	+	0.0021	ccd	73	50mm+G2
CG	Cyg	s	57560.7190	0.0050	+	0.0011	R	61	50mm+G2
V0478	Cyg	p	57620.5550	0.0100	+	0.0103	R	200	50mm+G2
V0836	Cyg	p	57675.4220	0.0030	+	0.0045	ccd	66	50mm+G2
V0891	Cyg	p	57237.4900	0.0100	-	0.0030	ccd	151	50mm+ST7
V0909	Cyg	p	57610.5690	0.0050	-	0.0034	ccd	34	50mm+G2
V1425	Cyg	p	57656.3440	0.0070	+	0.0019	ccd	70	50mm+ST7
V1719	Cyg	R	57264.5640	0.0040	+	0.0071	ccd	160	50mm+ST7
V1719	Cyg	R	57266.4360	0.0060	+	0.0080	ccd	179	50mm+ST7
V0450	Dra	p	57498.4270	0.0100	-	0.0033	ccd	67	50mm+G1
V0450	Dra	s	57823.3780	0.0030	+	0.0096	ccd	76	50mm+ST7

V0450	Dra	p	57823.5970	0.0030	+	0.0092	ccd	61	50mm+ST7	
G3864.01315	Dra	p	57860.4610	0.0020	+	0.0014	ccd	42	50mm+ST7	
G3864.01315	Dra	s	57860.5980	0.0040	+	0.0003	ccd	53	50mm+ST7	
G3870.01172	Dra	s	57847.3920	0.0040	+	0.0002	ccd	35	50mm+ST7	
G3870.01172	Dra	p	57855.3940	0.0050	-	0.0012	ccd	52	50mm+ST7	
G3870.01172	Dra	s	57855.5590	0.0070	+	0.0008	ccd	50	50mm+ST7	
RT	Equ	R	57624.4540	0.0030	-	0.0024	ccd	95	28cm+G2	
SV	Equ	p	57300.5000	0.0100	+	0.0038	ccd	131	50mm+G2	
UZ	Equ	p	57295.4610	0.0050	+	0.0022	ccd	130	50mm+G2	
ZZ	Eri	p	57335.5220	0.0020	+	0.0045	ccd	100	28cm+G2	
G1337.01137	Gem	p	57810.3860	0.0070	+	0.0030	ccd	74	50mm+ST7	
Z	Her	p	56855.4833	0.0140	+	0.0099	vis	15	binocular	Dumont Michel
RX	Her	p	56873.4346	0.0070	+	0.0022	vis	15	binocular	Dumont Michel
SZ	Her	p	57627.3970	0.0070	+	0.0023	vis	35	30cm Newton	Boninsegna Rolan
SZ	Her	p	57627.4000	0.0070	+	0.0053	vis	43	30cm Newton	Goffin Benoit
SZ	Her	p	57627.4010	0.0070	+	0.0063	vis	26	30cm Newton	Huys Guy
SZ	Her	p	57627.4050	0.0070	+	0.0103	vis	31	30cm Newton	Delsaux Guillaum
VZ	Hya	p	57776.5100	0.0080	+	0.0031	ccd	128	50mm+ST7	
VZ	Hya	p	57837.4970	0.0040	-	0.0003	ccd	127	50mm+G2	
FG	Hya	p	57498.4590	0.0050	+	0.0051	ccd	85	50mm+G	
FO	Hya	p	57500.5310	0.0080	+	0.0056	ccd	73	50mm+G2	
LO	Hya	p	57011.6440	0.0090	+	0.0002	ccd	328	50mm+ST7	
G4902.01190	Hya	s	57484.4280	0.0030	+	0.0017	ccd	94	50mm+G2	
G4902.01190	Hya	p	57499.5380	0.0050	+	0.0002	ccd	71	50mm+G2	
UV	Leo	s	57806.4050	0.0030	+	0.0006	ccd	50	50mm+ST7	
WY	Leo	p	57799.4590	0.0100	-	0.0069	ccd	114	50mm+ST7	
G0234.00844	Leo	p	54531.6700	0.0200	+	0.0021	V	90	Asas	
ES	Lib	p	57543.4660	0.0020	-	0.0022	R	159	50mm+G2	
DE	Mic	p	57284.4370	0.0050	+	0.0012	ccd	265	50mm+G2	
DE	Mic	p	57547.6890	0.0100	+	0.0029	ccd	100	50mm+G2	
G9498.00800	Oct	p	53764.6907	0.0000	+	0.0011	V	0	Asas	
G9498.00800	Oct	s	54803.6098	0.0000	-	0.0678	V	0	Asas	
G9498.00800	Oct	s	57704.8190	0.0020	+	0.0166	V	40	40cm+ST11000	Hambsch Josch
U	Oph	s	56809.4601	0.0140	+	0.0015	vis	10	binocular	Dumont Michel
U	Oph	s	56856.4105	0.0070	-	0.0138	vis	10	binocular	Dumont Michel
U	Oph	p	57162.5120	0.0130	-	0.0279	vis	11	binocular	Dumont Michel
U	Oph	p	57246.3984	0.0060	-	0.0089	vis	9	binocular	Dumont Michel
U	Oph	s	57267.3828	0.0080	+	0.0087	vis	7	binocular	Dumont Michel
U	Oph	s	57272.4164	0.0050	+	0.0103	vis	9	binocular	Dumont Michel
U	Oph	p	57293.3631	0.0080	-	0.0098	vis	16	binocular	Dumont Michel
V1010	Oph	s	57212.4690	0.0100	-	0.0038	ccd	168	50mm+ST7	
V1010	Oph	p	57213.4610	0.0050	-	0.0037	ccd	157	50mm+ST7	
EG	Ori	p	57724.4050	0.0070	+	0.0001	ccd	150	28cm+G2	
ER	Ori	p	57778.3600	0.0030	-	0.0014	ccd	115	50mm+ST5	
EW	Ori	s	57382.3930	0.0100	+	0.1598	ccd	60	50mm+ST7	

V1361	Ori	p	57740.5170	0.0200	-	0.0081	ccd	201	50mm+ST7	
V1388	Ori	p	57746.5120	0.0100	+	0.0037	ccd	199	50mm+ST7	
V2735	Ori	p	57767.4460	0.0070	+	0.0021	ccd	130	50mm+ST7	
V2762	Ori	p	57773.5190	0.0040	-	0.0003	ccd	120	50mm+ST7	
V2778	Ori	s	57376.5280	0.0300	-	0.0015	ccd	129	50mm+ST7	
ZZ	Peg	p	57319.4790	0.0050	+	0.0025	ccd	247	28cm+G2	
EE	Peg	p	56920.4250	0.0200	+	0.0197	vis	11	binocular	Dumont Michel
EE	Peg	p	56949.3260	0.0200	+	0.0104	vis	14	binocular	Dumont Michel
EE	Peg	p	56962.4617	0.0090	+	0.0050	vis	11	binocular	Dumont Michel
EE	Peg	p	57238.4065	0.0100	-	0.0127	vis	14	binocular	Dumont Michel
RY	Per	p	57373.3670	0.0100	+	0.0138	ccd	119	50mm+ST7	
IZ	Per	p	57366.4390	0.0020	+	0.0016	ccd	32	50mm+ST7	
G2869.00639	Per	p	57728.7190	0.0050	-	0.0023	ccd	35	50mm+ST7	
G2869.00639	Per	s	57729.2490	0.0040	+	0.0002	ccd	40	50mm+ST7	
G2869.00639	Per	p	57730.4790	0.0040	-	0.0007	ccd	53	50mm+ST7	
G2869.00639	Per	s	57730.6540	0.0040	-	0.0015	ccd	72	50mm+ST7	
UV	Psc	p	57356.3420	0.0020	-	0.0029	ccd	60	50mm+ST7	
XZ	PsA	p	57683.4620	0.0100	+	0.0006	ccd	101	50mm+G2	
ZZ	PsA	s	57298.4190	0.0050	+	0.0025	ccd	70	50mm+G2	
ZZ	PsA	s	57682.4060	0.0080	+	0.0014	ccd	198	50mm+G2	
ZZ	PsA	p	57708.3900	0.0080	-	0.0001	ccd	91	50mm+G2	
BH	Pup	p	53499.5600	0.0100	+	0.0289	V	90	Asas	
MQ	Pup	p	57836.4200	0.0010	-	0.0078	ccd	48	50mm+G2	
MW	Pup	p	57812.4960	0.0030	+	0.0012	ccd	107	50mm+G2	
NO	Pup	p	57810.5970	0.0040	-	0.0069	ccd	378	50mm+G2	
PV	Pup	p	57815.5150	0.0100	+	0.0031	ccd	537	50mm+G2	
V0405	Pup	p	57846.4200	0.0100	+	0.0037	ccd	268	50mm+G2	
V0505	Sgr	p	57255.4350	0.0020	+	0.0013	ccd	133	50mm+G2	
V0505	Sgr	p	57268.4470	0.0020	+	0.0018	ccd	199	50mm+G2	
V0505	Sgr	p	57281.4560	0.0050	-	0.0007	ccd	105	50mm+G2	
V0505	Sgr	p	57611.4730	0.0010	-	0.0033	R	39	50mm+G2	
V1647	Sgr	p	56162.3200	0.0100	+	0.0039	ccd	70	50mm+STE	
V1647	Sgr	p	57501.6960	0.0020	+	0.0015	ccd	74	50mm+G2	
V2349	Sgr	p	57569.5250	0.0050	+	0.0047	ccd	82	50mm+G2	
V4197	Sgr	p	57270.5260	0.0050	+	0.0079	ccd	172	50mm+G2	
V4197	Sgr	s	57582.5390	0.0050	+	0.0071	R	172	50mm+G2	
V4399	Sgr	p	57607.4720	0.0100	-	0.0062	R	313	50mm+G2	
V4403	Sgr	p	57260.3800	0.0100	-	0.0630	ccd	60	50mm+G2	
V4437	Sgr	p	57609.4960	0.0050	+	0.0053	R	295	50mm+G2	
V5572	Sgr	p	57672.4400	0.0100	+	0.0032	R	169	50mm+G2	
V5656	Sgr	p	57570.6040	0.0060	+	0.0052	ccd	153	50mm+G2	
V0499	Sco	p	57548.6030	0.0070	-	0.0013	ccd	187	50mm+G2	
V0499	Sco	p	57562.6050	0.0080	+	0.0009	R	118	50mm+G2	
V0700	Sco	p	57545.5790	0.0050	+	0.0011	ccd	34	50mm+G2	
V0701	Sco	s	57578.4530	0.0080	+	0.0011	ccd	160	50mm+G2	

V0701	Sco	s	57581.5010	0.0110	+	0.0016	R	236	50mm+G2	
V0760	Sco	p	57553.5290	0.0030	-	0.0113	V	76	50mm+G2	
V0760	Sco	s	57566.5320	0.0030	+	0.0101	R	106	50mm+G2	
V0954	Sco	p	57571.4430	0.0080	+	0.0010	R	160	50mm+G2	
V1044	Sco	p	57515.4970	0.0020	-	0.0015	ccd	68	50mm+G2	
V1055	Sco	p	57546.5810	0.0090	-	0.0006	ccd	395	50mm+G2	
V1081	Sco	p	57545.4730	0.0100	-	0.0029	R	60	50mm+G2	
V1081	Sco	p	57555.5360	0.0100	+	0.0054	V	85	50mm+G2	
V1288	Sco	p	57577.5030	0.0070	-	0.0087	ccd	221	50mm+G2	
V1305	Sco	p	57548.5080	0.0100	-	0.0130	ccd	180	50mm+G2	
AL	Scl	p	57684.4190	0.0100	+	0.0038	V	243	50mm+G2	
U	Sct	p	57626.4430	0.0020	-	0.0003	ccd	24	50mm+G2	
RS	Sct	s	57567.4760	0.0050	+	0.0054	ccd	92	50mm+G2	
RS	Sct	s	57676.4070	0.0080	+	0.0014	ccd	48	50mm+G2	
CW	Sct	p	57584.4990	0.0100	+	0.0017	ccd	112	50mm+G2	
Y	Sex	p	57865.4260	0.0040	+	0.0024	ccd	73	50mm+ST7	
XX	Sex	p	57857.4330	0.0080	+	0.0034	ccd	75	50mm+ST7	
CD	Tau	s	56962.4563	0.0080	+	0.0045	vis	11	binocular	Dumont Michel
EQ	Tau	p	57319.6300	0.0020	+	0.0014	ccd	150	28cm+G2	
V1121	Tau	p	57309.6720	0.0090	-	0.0035	ccd	153	50mm+G2	
V1123	Tau	s	57320.6410	0.0020	-	0.0013	ccd	49	50mm+G2	
V1128	Tau	s	57319.6700	0.0030	+	0.0005	ccd	131	50mm+G2	
V1128	Tau	p	57328.6780	0.0030	+	0.0003	ccd	141	50mm+G2	
V1130	Tau	p	57300.6480	0.0050	-	0.0009	ccd	130	50mm+G2	
V1238	Tau	p	57371.4680	0.0050	+	0.0013	ccd	108	50mm+G2	
V1238	Tau	s	57772.4920	0.0050	+	0.0037	ccd	81	50mm+G2	
MT	Tel	R	57282.4890	0.0100	+	0.0098	ccd	301	50mm+G2	
VV	UMa	p	57738.5600	0.0070	+	0.0071	ccd	60	50mm+ST7	
GM	UMa	p	57822.5500	0.0200	-	0.0035	ccd	1848	50mm+ST7	
GT	UMa	p	57807.4100	0.0100	-	0.0034	ccd	169	50mm+ST7	
II	UMa	p	57497.5090	0.0050	+	0.0078	ccd	171	50mm+G2	
W	UMi	p	57850.4690	0.0050	-	0.0034	ccd	168	50mm+ST7	
AS	Vel	p	57797.5240	0.0040	-	0.0043	ccd	136	50mm+G2	
PT	Vel	p	57813.5080	0.0030	-	0.0038	ccd	422	50mm+G2	
PT	Vel	s	57823.5180	0.0030	+	0.0951	ccd	272	50mm+G2	
V0362	Vel	p	57869.4720	0.0060	-	0.0002	ccd	152	50mm+G2	
UW	Vir	p	57491.5850	0.0030	+	0.0036	ccd	45	50mm+G2	
CX	Vir	p	57572.4450	0.0070	+	0.0004	ccd	83	50mm+G2	
DL	Vir	p	57868.4790	0.0020	-	0.0010	ccd	560	50mm+G2	
DM	Vir	p	57559.4950	0.0030	-	0.0005	R	47	50mm+G2	
FO	Vir	p	57547.5120	0.0100	+	0.0069	V	281	50mm+G2	
HT	Vir	s	57483.4370	0.0030	-	0.0031	ccd	141	50mm+G2	
HT	Vir	p	57483.6420	0.0020	-	0.0019	ccd	155	50mm+G2	
HY	Vir	p	57850.6260	0.0040	-	0.0043	ccd	129	50mm+G2	
LU	Vir	s	57862.6190	0.0060	-	0.0066	ccd	112	50mm+G2	

MS	Vir	p	57496.5310	0.0020	+	0.0021	ccd	71	50mm+G2
MS	Vir	s	57496.6860	0.0020	+	0.0011	ccd	48	50mm+G2
NS	Vir	s	57519.4980	0.0100	-	0.0106	ccd	274	50mm+G2
NS	Vir	p	57521.4450	0.0150	-	0.0001	ccd	273	50mm+G2
NS	Vir	p	57539.5090	0.0050	-	0.0140	ccd	305	50mm+G2
PY	Vir	s	57490.5910	0.0020	+	0.0037	ccd	50	55mm+G2
PY	Vir	p	57861.4420	0.0070	+	0.0031	ccd	155	50mm+ST7
V0467	Vir	s	57862.6180	0.0060	+	0.0032	ccd	127	50mm+G2
Z	Vul	s	57231.4950	0.0100	-	0.0044	ccd	97	50mm+ST7

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