

# A LIST OF MINIMA AND MAXIMA TIMINGS

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**Abstract:** The list contains minima of eclipsing and maxima of pulsating stars. It continues the list published in OEJV 0181 (Paschke 2017).

## 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).
- Asas-SN = Sky Survey, The Ohio State University, Columbus, OH 43210, USA
- 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 Identification of stars

Stars included in GCVS, NSV and GSC 1.2 are reliably identified. Stars with identification from CzeV, SvkV and RafV catalogs are listed here to avoid difficulties for future reads. For stars included in GSC 1.2 this identification is listed as well, others have -1.

Table 1: Coordinates J 2000

GSC 1.2	ID	Const	RA	[h m s]	DE [° ' "]
-1	RafV003	Aps	16	21	50.70 - 71 38 54.0
-1	RafV005	Aps	16	28	8.60 - 80 4 5.0
-1	RafV006	Aps	17	49	14.10 - 77 42 39.0
G9281.00462	RafV010	Aps	16	20	43.40 - 71 38 9.0
-1	RafV114	Equ	21	15	7.00 + 4 29 42.0
G4800.01117	CzeV175	Mon	6	49	34.00 - 0 37 27.3
G4800.01717	CzeV174	Mon	6	49	21.80 - 0 44 9.7
-1	CzeV085	Mon	7	8	29.40 + 0 41 12.6
-1	CzeV147	Mon	6	56	32.50 - 1 53 42.0
G1177.00861	CzeV620	Peg	23	57	55.17 + 13 55 40.9
G2196.01917	SvkV005	Peg	21	39	21.02 + 26 52 35.7
G2726.01138	SvkV092	Peg	21	49	54.63 + 35 35 20.7

### 3 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 October 2018. Column Last modification shows the date when the elements were modified. GSC 1.2 identification are abbreviated to save space in the main table.

Table 2: Light elements of stars.

ID	Const.	kind	HJD [24.....]	P [d]	Last modification
SW	And	R	48558.3820	0.4422635	12.01.2017
CC	And	R	34604.9480	0.1249080	30.06.2009
GI	And	R	29130.4100	0.5939700	08.02.2018
V0372	And	p	48501.4100	2.9410200	26.03.2017
V0382	And	p	48501.1049	1.4790000	16.02.2013
V0406	And	p	48430.0050	2.1650300	09.05.2013
V0613	And	p	48164.6650	0.9379020	20.11.2017
G2760.00224	And	p	58044.7670	0.2012020	08.06.2018
G2828.00289	And	p	53288.7482	0.4736250	04.01.2018
G2831.01605	And	p	55834.1090	0.4934010	26.06.2018
G3225.01270	And	p	57295.4644	0.5668000	12.06.2017
G3635.01628	And	p	57746.7310	0.8352350	20.08.2018
G3639.01660	And	p	57233.9230	0.2307440	22.08.2018
G3645.01372	And	p	53200.7890	0.3713810	22.08.2018
RafV003	Aps	p	53106.2690	0.3367610	31.08.2018
RafV006	Aps	p	53108.4250	0.3466510	30.08.2018
RafV010	Aps	p	53547.5050	0.3884400	09.03.2018
RY	Aqr	p	43359.3400	1.9665780	10.05.2014
CY	Aqr	R	45972.1860	0.0610384	30.03.2012
DV	Aqr	p	26160.5000	1.5755300	08.10.2010
EL	Aqr	p	39486.6920	0.4814100	15.10.2017
HV	Aqr	p	48835.7742	0.3744570	14.10.2015
MO	Aqr	p	51998.4690	0.3981430	02.12.2012
OO	Aqr	p	52227.5140	0.5866200	10.04.2016
G5239.00030	Aqr	p	51872.9000	0.3395790	11.07.2016
G5257.00616	Aqr	p	54999.0627	0.4033050	01.09.2018
IP	Aql	p	28750.4940	2.1937780	07.01.2018
V1808	Aql	p	52812.7020	0.4237980	04.03.2016
SS	Ari	p	36075.6300	0.4059860	20.12.2017
BM	Ari	p	51463.6790	0.4849665	10.10.2013
TT	Aur	p	45010.2430	1.3327350	25.12.2017
V0410	Aur	p	48500.1760	0.3663562	16.02.2018

V0425	Aur	p	48500.8290	1.5685850	24.12.2013
SS	Boo	p	20707.3690	7.6061410	22.04.2018
ZZ	Boo	p	41765.6230	4.9917700	17.11.1999
AE	Boo	R	30388.2030	0.3148933	26.06.2015
BW	Boo	p	40362.9026	3.3328180	02.10.2017
CK	Boo	p	42537.6110	0.3551510	27.05.2018
DV	Boo	p	48045.2540	3.7826340	22.03.2011
EL	Boo	p	48500.1590	0.4137642	22.04.2016
EW	Boo	p	48500.5200	0.9063490	24.05.2017
GW	Boo	p	52788.4237	0.5315450	27.07.2003
G0902.00318	Boo	p	53396.8730	0.3268610	05.07.2017
i	Boo	p	43615.5940	0.2678180	05.12.2017
V0368	Cam	p	51551.7560	0.4089212	31.05.2018
V0394	Cam	p	51518.5140	0.3814890	06.03.2018
BO	CVn	p	48724.6870	0.5174620	16.04.2017
CI	CVn	p	48500.5180	0.8158745	18.08.2010
AD	CMi	R	42429.4582	0.1229745	26.01.2014
AR	CMi	p	50551.4050	1.5758510	06.04.2018
BF	Cap	p	48500.0230	0.5326760	10.09.2017
CQ	Cap	p	52867.6700	0.6908020	09.04.2015
MX	Cas	p	29491.4200	4.7583360	04.05.2018
V0368	Cas	p	25554.3200	4.4516370	09.07.2012
V0464	Cas	p	40146.3020	1.6633495	04.01.2018
V0741	Cas	p	48504.0610	9.0596000	10.12.2017
V0779	Cas	p	52144.0300	6.3535250	10.09.2014
V0791	Cas	p	48500.1170	2.8867570	10.09.2014
V0821	Cas	p	48500.4350	1.7697400	14.11.2014
V1010	Cas	p	51482.6370	2.3977650	12.09.2015
V1279	Cas	p	56573.4740	3.1950930	11.11.2015
G3656.00114	Cas	p	57364.3620	0.2725100	10.10.2017
V0752	Cen	p	44243.6950	0.3702276	15.04.2017
V0757	Cen	p	42308.6960	0.3431685	05.01.2017
V1200	Cen	p	48509.6520	2.4828740	20.01.2005
U	Cep	p	40874.3200	2.4930810	06.06.2018
RZ	Cep	R	11640.6340	0.3086660	19.08.2016
WX	Cep	p	25088.5390	3.3784540	09.09.2013
ZZ	Cep	p	27928.4510	2.1417990	10.11.2004
AI	Cep	p	26550.3610	4.2253100	14.11.2014
EG	Cep	p	52444.4260	0.5446220	27.05.2006
V0428	Cep	p	48504.8100	8.2207700	21.07.2018
V0441	Cep	p	48500.9300	1.6490510	07.10.2018
V0443	Cep	p	48500.1260	2.0965850	23.11.2017
V0454	Cep	p	48313.1000	5.5844800	12.04.2017
V0921	Cep	p	51311.8700	13.7145000	08.12.2018
V0970	Cep	p	54377.3800	1.6886480	17.10.2017

G3973.01124	Cep	p	51300.3150	0.4904374	23.06.2018
G4500.00730	Cep	p	54788.5861	0.3174115	22.03.2018
XY	Cet	p	38372.9540	2.7807120	29.11.2017
CT	Cet	p	48500.1847	0.2564878	11.01.2017
G4686.02061	Cet	p	51904.4300	0.6315180	10.06.2015
U	CrB	p	16747.9860	3.4522110	30.05.2016
RW	CrB	p	40751.7330	0.7264112	07.02.2017
V	Crt	p	41397.3323	0.7020358	25.06.2006
VV	Crt	p	48624.3320	2.2955950	25.06.2006
Y	Cyg	p	48987.0240	2.9963320	06.04.2006
BR	Cyg	p	41539.4654	1.3325642	06.01.1996
DK	Cyg	p	42273.4910	0.4706930	06.09.2018
GO	Cyg	p	33930.4300	0.7177650	08.04.2017
KR	Cyg	p	25700.4230	0.8451529	14.11.2014
V0382	Cyg	p	36814.8560	1.8855170	08.06.2017
V0442	Cyg	p	44919.5560	2.3859454	08.08.1998
V0444	Cyg	p	41164.3820	4.2124700	08.06.2017
V0477	Cyg	p	44189.2540	2.3469800	17.08.2017
V0548	Cyg	p	44456.4870	1.8052380	07.07.2017
V1034	Cyg	p	42938.4540	0.9769320	15.09.2017
V1425	Cyg	p	40400.9540	1.2523870	06.01.1996
V1719	Cyg	R	43776.7150	0.2672980	11.01.2017
TY	Del	p	42959.4450	1.1911320	20.08.2006
BY	Del	p	25835.3570	10.0342150	24.08.2018
DM	Del	p	29379.9910	0.8446725	30.07.2018
GG	Del	p	28761.7100	0.5632260	09.06.2006
PP	Del	p	54748.5770	1.0206820	16.08.2018
TZ	Dra	p	42966.4650	0.8660332	08.06.2017
BN	Dra	p	31231.5000	5.8832800	04.08.2018
GQ	Dra	p	48500.5630	0.7659030	30.03.2017
V0450	Dra	p	51319.1200	0.4394030	19.04.2018
G4552.01643	Dra	p	55962.3400	0.2699090	19.03.2018
SV	Equ	p	39382.4270	0.8809710	18.03.1998
UZ	Equ	p	52816.8270	0.4867020	30.09.2015
RafV114	Equ	p	57228.8300	4.6830200	22.06.2018
RX	Eri	R	21692.4790	0.5872461	05.08.2007
SV	Eri	R	47176.8650	0.7138740	21.11.2017
G4720.00687	Eri	p	51869.8650	0.4804760	12.07.2017
NSV 03268	Gem	p	57853.7390	0.3643953	22.06.2018
DY	Gru	p	52992.6120	0.3360290	20.01.2005
Z	Her	p	13086.3450	3.9928050	25.09.2016
RX	Her	p	33170.3980	1.7785724	06.01.1996
TT	Her	p	48476.4000	0.9120780	24.01.2004
AK	Her	p	42186.4600	0.4215225	29.11.2006
DI	Her	p	42233.3493	10.5501677	03.05.1998

HS	Her	p	52856.3646	1.6374341	04.08.2005
XX	Lac	p	44144.3840	4.0623750	28.07.2018
OT	Lac	p	33269.3220	5.1498800	29.08.2018
G3200.01872	Lac	p	56159.5928	0.6264680	21.10.2018
RR	Leo	R	47989.4730	0.4523991	30.05.2018
UZ	Leo	p	39800.4500	0.6180500	24.02.2017
G1403.01508	Leo	p	54942.5350	0.3374790	14.03.2017
RV	Lib	p	28227.8630	10.7226600	24.05.2017
LZ	Lib	p	51903.1200	0.3544370	20.05.2017
IU	Lup	p	48500.7300	1.6190700	27.07.1997
RR	Lyr	R	14856.4030	0.5668356	16.12.2016
FL	Lyr	p	38221.5525	2.1781544	06.01.1996
LW	Lyr	p	56799.0950	1.6780200	13.04.2018
V0426	Lyr	p	37885.4160	6.3439500	04.06.2018
DG	Mic	p	52104.7160	2.6959200	20.01.2005
HR	Mon	p	32965.4810	2.8442481	06.01.1996
HS	Mon	p	30323.4800	2.7724820	08.12.2018
MY	Mon	p	29641.2120	8.6682700	14.08.2018
V0379	Mon	p	31142.3310	3.3746960	16.08.2018
V0393	Mon	p	33006.3540	4.1216660	24.08.2018
CzeV175	Mon	p	52189.8730	2.0279100	23.03.2009
CzeV174	Mon	p	53809.6140	1.9939800	12.06.2017
CzeV085	Mon	p	53409.4463	1.3188660	12.12.2017
CzeV147	Mon	p	57858.5410	0.3344300	13.12.2017
U	Oph	p	44416.3864	1.6773462	06.01.1996
SX	Oph	p	33401.6200	4.1266076	26.08.2018
V0839	Oph	p	39313.4840	0.4090015	17.03.2018
V1010	Oph	p	38937.5200	0.6614275	07.10.2018
V1016	Oph	p	46907.5460	0.4071610	27.07.2009
FZ	Ori	p	27398.5380	0.3999871	16.03.2018
U	Peg	p	47070.3440	0.3747772	20.08.2018
BK	Peg	p	41587.7259	5.4899090	16.07.2007
BL	Peg	R	24758.7000	0.5554524	20.06.2018
DI	Peg	p	45196.4910	0.7118165	28.09.2014
DY	Peg	R	44502.0580	0.0729263	24.10.2017
KP	Peg	p	46730.1800	0.7272053	10.12.2014
QT	Peg	p	48645.0970	3.5936840	21.09.2017
V0357	Peg	p	48500.3130	0.5784510	02.05.2009
V0407	Peg	p	52558.1700	0.6368840	15.02.2015
V0481	Peg	p	53330.5190	0.4220240	30.10.2017
G0548.00675	Peg	p	53252.4957	0.3051400	01.03.2018
G0570.00106	Peg	p	51872.7800	0.5982160	09.08.2018
G1128.00329	Peg	p	56993.7300	0.2259644	17.12.2017
G1134.00160	Peg	p	55083.5580	0.3493540	20.12.2017
G1159.00073	Peg	p	53212.4358	0.3308050	20.12.2017

CzeV620	Peg	p	51481.6000	2.4832840	01.01.2018
G1684.00862	Peg	p	58070.5820	1.5964500	17.12.2017
G1691.01764	Peg	p	57327.7640	0.3925720	17.12.2017
G1698.01230	Peg	p	57969.0850	0.5710550	31.12.2017
G1709.00614	Peg	p	53622.6300	0.2764120	31.01.2012
G1716.00468	Peg	p	53663.0260	0.6017933	01.05.2018
G1720.00818	Peg	p	53196.6034	0.2856635	01.06.2018
G1721.01591	Peg	p	54307.9550	0.3188940	01.06.2017
SvkV005	Peg	p	57610.9800	7.9515000	09.04.2018
G2197.00872	Peg	p	55343.8388	0.3607240	25.12.2017
G2201.00469	Peg	p	53251.4840	0.6055920	01.02.2018
G2202.00548	Peg	p	53201.1490	0.5618490	01.07.2018
G2203.02119	Peg	p	53201.4300	0.5270820	01.08.2018
G2207.02262	Peg	p	58002.9220	0.2226160	25.12.2017
G2208.01808	Peg	p	58033.9090	0.2129980	25.12.2017
G2209.00606	Peg	p	52784.4300	1.0728180	17.10.2017
G2211.02152	Peg	p	52893.6080	0.4818570	01.09.2018
G2212.00583	Peg	p	57613.9450	0.2312355	26.10.2012
G2719.02060	Peg	p	57145.0710	0.2204766	01.10.2018
SvkV092	Peg	p	57853.1190	0.3203700	01.01.2018
G2337.01479	Per	p	55101.4610	0.2862080	20.02.2018
G2354.00963	Per	p	53360.2770	3.6474690	03.07.2018
G2354.00988	Per	p	53358.0840	1.5892480	03.11.2018
G2363.00514	Per	p	53358.9830	3.9450100	19.03.2018
G2368.00816	Per	p	53357.9690	1.0203340	23.03.2018
G2368.00905	Per	p	53357.5010	1.9707260	07.01.2005
G2368.01574	Per	p	53357.5060	2.0227460	07.01.2005
G2851.00945	Per	p	53098.6240	3.3741200	04.06.2018
G2851.01552	Per	p	53296.2786	0.5266900	04.07.2018
G2855.00949	Per	p	55849.5118	0.3690010	04.08.2018
G2856.00504	Per	p	53558.9610	0.8837680	04.09.2018
G2863.00573	Per	p	53358.8830	2.1255960	16.04.2018
G2869.00639	Per	p	55849.3808	0.3517060	17.12.2017
G3318.00673	Per	p	51566.6554	0.6063040	29.04.2018
SZ	Psc	p	43498.4970	3.9656680	05.12.2017
VY	PsA	p	48500.5510	0.6338890	27.07.1997
XZ	PsA	p	52437.7980	0.7535790	22.10.2016
ZZ	PsA	p	52844.7900	0.3738930	21.10.2016
G1606.01750	Sge	p	54392.5350	1.4749400	26.08.2017
V0525	Sgr	p	29662.4593	0.7051216	20.08.2007
V4197	Sgr	p	53543.5040	0.7148090	13.07.2016
V4396	Sgr	p	48501.2932	1.7450200	27.07.1997
V4403	Sgr	p	48501.2240	1.7014570	15.07.2017
V4437	Sgr	p	48500.6020	1.1366220	08.09.2016
V0701	Sco	p	43574.8360	0.7618735	30.08.2007

V0760	Sco	p	54100.3290	1.7309330	14.06.2016
V0906	Sco	p	39649.8140	2.7859500	31.08.2007
V1041	Sco	p	48500.5500	2.1874200	15.06.2017
V1055	Sco	p	48500.2560	0.3636860	30.01.2010
ER	Set	p	27335.4330	1.3610560	09.04.2007
VY	Sex	p	51318.5590	0.4434360	23.12.2014
V1370	Tau	p	51467.8630	0.2955170	08.11.2013
IO	UMa	p	51315.6530	5.5200900	30.04.2017
TY	UMi	p	48500.2764	1.7248790	27.07.2018
AK	Vir	p	42576.4000	1.1935960	24.12.2013
BD	Vir	p	42538.4150	2.5485670	20.05.2017
BH	Vir	p	43230.6090	0.8168711	06.01.1996
CX	Vir	p	26092.4590	0.7460773	07.03.2016
FQ	Vir	p	27841.6500	0.7496030	28.08.2012
GR	Vir	p	45116.3760	0.3469730	05.06.2017
LU	Vir	p	48500.4480	0.4922410	02.01.2012
NS	Vir	p	48500.5770	1.2912765	28.05.2017
V0467	Vir	p	54597.6240	0.6045720	08.02.2011
V0614	Vir	p	54852.8500	2.2391880	08.10.2010
BW	Vul	p	45177.7170	0.2010437	29.09.2018
DW	Vul	p	31655.5010	3.1352060	08.04.2018
V0495	Vul	p	56153.3880	1.6351350	28.02.2017

#### 4 Maxima and minima times

Minimum times were estimated by fitting goniometric polynomials up to order 3 to the data. Table 3 shows maxima and minima of observed stars. The first columns give stellar identification. GSC 1.2 identifications are abbreviated. The second column is the constellation. 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). Visual observations by binocular where performed by Michel Dumont, GEOS.

Table 3: Maxima and minima of observed stars

ID	Const.	kind	HJD [24.....]	Err	O-C [d]	Filter	N obs	Instrument
SW	And	R	58088.2750	0.0050	- 0.0009	ccd	56	50mm+ST7
CC	And	R	58009.3300	0.0050	- 0.0047	ccd	35	50mm+ST7
CC	And	R	58009.4530	0.0030	- 0.0066	ccd	36	50mm+ST7
CC	And	R	58009.5780	0.0030	- 0.0065	ccd	36	50mm+ST7
GI	And	R	58308.0760	0.0200	+ 0.0777	V	182	Asas-SN

V0372	And	p	58071.4870	0.0100	-	0.0021	ccd	123	50mm+ST7
V0382	And	p	58024.3880	0.0100	+	0.0021	ccd	85	50mm+ST7
V0406	And	p	58090.3640	0.0200	-	0.0049	ccd	234	50mm+ST7
V0613	And	p	58077.3490	0.0020	-	0.0022	ccd	101	50mm+ST7
G2760.00224	And	p	58044.7670	0.0300	+	0.0000	V	551	Asas-SN
G2828.00289	And	p	58025.9470	0.0080	+	0.0016	V	209	Asas-SN
G2831.01605	And	s	57290.8760	0.0100	+	0.0002	V	271	Asas-SN
G2831.01605	And	p	57930.0790	0.0100	+	0.0026	V	271	Asas-SN
G3225.01270	And	s	58093.2350	0.0100	-	0.0006	ccd	68	50mm+ST7
G3225.01270	And	p	58093.5190	0.0100	+	0.0002	ccd	68	50mm+ST7
G3225.01270	And	p	58096.3590	0.0070	+	0.0062	ccd	132	50mm+ST7
G3635.01628	And	p	57746.7310	0.0100	+	0.0000	V	210	Asas-SN
G3639.01660	And	p	57233.9230	0.0080	+	0.0000	V	180	Asas-SN
G3645.01372	And	p	58119.7250	0.0050	-	0.0053	V	187	Asas-SN
RafV003	Aps	p	58194.7590	0.0150	+	0.0313	V	286	Asas-SN
RafV005	Aps	p	57911.6750	0.0150	-	0.0020	V	258	Asas-SN
RafV006	Aps	p	58000.7000	0.0200	-	0.0106	ccd	257	Asas-SN
RafV010	Aps	p	56835.6470	0.0200	-	0.0026	V	120	Asas-SN
RY	Aqr	p	58417.4220	0.0050	-	0.0057	ccd	228	50mm+G2
CY	Aqr	R	58045.3390	0.0020	+	0.0016	ccd	112	50mm+ST7
DV	Aqr	p	58063.4260	0.0100	+	0.0190	ccd	191	50mm+G2
EL	Aqr	s	58041.4430	0.0100	+	0.0061	ccd	65	50mm+ST7
HV	Aqr	s	58015.4030	0.0040	+	0.0027	ccd	86	50mm+G2
HV	Aqr	p	58041.4290	0.0060	+	0.0039	ccd	111	50mm+G2
HV	Aqr	p	58059.4060	0.0050	+	0.0070	ccd	99	50mm+G2
MO	Aqr	p	58051.4430	0.0030	+	0.0060	ccd	105	50mm+G2
OO	Aqr	s	58012.4710	0.0050	+	0.0042	ccd	75	50mm+G2
QS	Aqr	p	58014.4080	0.0030	+	0.0017	ccd	165	50mm+G2
G5239.00030	Aqr	s	58052.3850	0.0050	-	0.0041	ccd	105	50mm+G2
G5257.00616	Aqr	p	57305.5650	0.0200	+	0.0010	V	285	Asas-SN
G5257.00616	Aqr	s	57699.7960	0.0200	+	0.0017	V	312	Asas-SN
IP	Aql	p	57567.9630	0.0200	+	0.0012	V	119	Asas-SN
V1808	Aql	s	58046.4010	0.0020	+	0.0055	ccd	111	50mm+G2
V1808	Aql	s	58060.3880	0.0050	+	0.0072	ccd	86	50mm+G2
V1808	Aql	p	58390.3150	0.0050	+	0.0075	ccd	100	50mm+ST7
SS	Ari	p	58107.2700	0.0100	-	0.0023	ccd	46	50mm+ST7
SS	Ari	s	58107.4750	0.0100	-	0.0003	ccd	39	50mm+ST7
SS	Ari	s	58109.5080	0.0050	+	0.0028	ccd	59	50mm+ST7
BM	Ari	s	58040.5570	0.0020	+	0.0053	ccd	50	50mm+ST7
TT	Aur	p	58112.3560	0.0010	-	0.0048	ccd	27	50mm+ST7
V0410	Aur	p	58165.3860	0.0070	+	0.0007	ccd	35	50mm+ST7
V0425	Aur	p	58108.4110	0.0070	-	0.0011	ccd	132	50mm+ST7
SS	Boo	p	56889.7920	0.0100	+	0.0103	V	62	Asas-SN
SS	Boo	p	57095.1580	0.0100	+	0.0105	V	107	Asas-SN
ZZ	Boo	s	57881.5480	0.0100	-	0.0044	ccd	299	50mm+G2
AE	Boo	R	57870.5150	0.0080	-	0.0008	ccd	76	50mm+G2
BW	Boo	p	57883.5180	0.0100	-	0.0088	ccd	346	50mm+G2
CK	Boo	s	57914.4310	0.0070	+	0.0312	ccd	122	50mm+G2
CK	Boo	p	58264.4160	0.0070	+	0.0084	ccd	84	50mm+ST7
CK	Boo	s	58288.3850	0.0070	+	0.0111	ccd	50	50mm+ST7
DV	Boo	p	57872.5360	0.0070	-	0.0011	ccd	153	50mm+ST7
EL	Boo	p	57876.4970	0.0150	+	0.0275	ccd	46	50mm+G2
EW	Boo	p	57897.5480	0.0080	+	0.0016	ccd	52	50mm+ST7



GW	Boo	s	57915.4390	0.0100	-	0.0020	ccd	74	50mm+G2
G0902.00318	Boo	p	57880.4250	0.0060	-	0.0003	ccd	60	50mm+G2
G0902.00318	Boo	s	57880.5860	0.0050	-	0.0023	ccd	67	50mm+G2
i	Boo	s	57884.5350	0.0080	+	0.0006	ccd	143	50mm+G2
i	Boo	p	57885.4730	0.0080	+	0.0003	ccd	197	50mm+G2
AS	Cam	s	58057.3510	0.0080	-	0.0516	ccd	58	50mm+ST7
AW	Cam	p	58132.4130	0.0040	-	0.0040	ccd	47	50mm+ST7
AY	Cam	p	58147.3880	0.0050	-	0.0016	ccd	112	50mm+ST7
CU	Cam	p	58035.4760	0.0100	+	0.0005	ccd	79	50mm+ST7
V0368	Cam	p	56868.1440	0.0080	+	0.0035	V	237	Asas-SN
V0368	Cam	s	58197.7490	0.0080	+	0.0017	V	287	Asas-SN
V0394	Cam	p	57118.7650	0.0090	-	0.0075	V	300	Asas-SN
V0394	Cam	s	57664.1070	0.0090	-	0.0043	V	300	Asas-SN
BO	CVn	s	58296.4430	0.0050	+	0.0019	ccd	137	50mm+ST7
CI	CVn	p	58231.4510	0.0080	-	0.0022	ccd	80	50mm+ST7
AD	CMi	R	58191.3470	0.0050	-	0.0027	ccd	46	50mm+ST7
AD	CMi	R	58191.4720	0.0050	-	0.0006	ccd	35	50mm+ST7
AR	CMi	p	58071.0100	0.0200	-	0.3560	V	134	Asas-SN
BF	Cap	p	58011.4790	0.0050	-	0.0067	ccd	238	50mm+G2
BF	Cap	p	58035.4540	0.0050	-	0.0021	ccd	238	50mm+G2
CQ	Cap	p	58004.4750	0.0050	+	0.0013	ccd	114	50mm+G2
MX	Cas	p	57698.8340	0.0200	-	0.0018	V	75	Asas-SN
V0368	Cas	p	58042.3720	0.0100	+	0.0052	ccd	229	50mm+ST7
V0464	Cas	s	57342.8350	0.0200	-	0.0055	V	136	Asas-SN
V0741	Cas	p	58061.9380	0.0100	-	0.0010	V	154	Asas-SN
V0779	Cas	p	57633.4349	0.0040	-	0.0407	vis	15	binocular
V0779	Cas	p	58370.4820	0.0050	-	0.0025	ccd	136	50mm+ST7
V0791	Cas	p	58052.3850	0.0100	-	0.0109	ccd	0	50mm+ST7
V0821	Cas	p	58039.3770	0.0050	+	0.0434	ccd	131	50mm+ST7
V1010	Cas	p	58347.4420	0.0100	+	0.0038	ccd	99	50mm+ST7
V1010	Cas	p	58359.4310	0.0100	+	0.0040	ccd	122	50mm+ST7
V1279	Cas	p	58030.4510	0.0080	+	0.0146	ccd	140	50mm+ST7
G3656.00114	Cas	p	58036.3680	0.0050	-	0.0037	ccd	42	50mm+ST7
G3656.00114	Cas	s	58036.5070	0.0030	-	0.0007	ccd	42	50mm+ST7
V0752	Cen	p	57875.4740	0.0030	-	0.0012	ccd	107	50mm+G2
V0757	Cen	p	57874.4760	0.0040	+	0.0000	ccd	70	50mm+G2
V1200	Cen	p	57877.5430	0.0080	+	0.0074	ccd	109	50mm+G2
U	Cep	p	58293.4720	0.0050	-	0.0049	ccd	48	50mm+ST7
U	Cep	p	58318.4000	0.0030	-	0.0078	ccd	70	50mm+ST7
RZ	Cep	R	58059.4210	0.0100	+	0.0506	ccd	140	50mm+ST7
WX	Cep	s	58050.4260	0.0100	+	0.0008	ccd	234	50mm+ST7
ZZ	Cep	p	58106.3960	0.0050	-	0.0029	ccd	168	50mm+ST7
AI	Cep	p	58058.5130	0.0200	+	0.0153	ccd	166	50mm+ST7
EG	Cep	s	58043.4060	0.0060	-	0.0062	ccd	106	50mm+ST7
EG	Cep	p	58043.6800	0.0050	-	0.0048	ccd	28	50mm+ST7
V0428	Cep	p	57596.9800	0.0400	-	0.0016	V	62	Asas-SN
V0441	Cep	p	58309.4810	0.0100	-	0.0043	ccd	104	50mm+ST7
V0443	Cep	p	58079.4290	0.0200	+	0.0061	ccd	154	50mm+ST7
V0454	Cep	p	58091.5210	0.0200	-	0.0035	ccd	205	50mm+ST7
V0921	Cep	p	57263.9470	0.0200	-	0.0160	V	10	Asas-SN
V0921	Cep	s	57708.8260	0.0200	+	0.1157	V	8	Asas-SN
V0970	Cep	p	58043.4330	0.0100	-	0.0018	ccd	89	50mm+ST7
G3973.01124	Cep	p	58018.3220	0.0080	-	0.0045	ccd	39	50mm+ST7

G3973.01124	Cep	p	58292.4800	0.0120	-	0.0010	ccd	139	50mm+ST7
G4500.00730	Cep	s	57713.6940	0.0040	+	0.0020	V	280	Asas-SN
G4500.00730	Cep	p	57999.8320	0.0040	-	0.0062	V	348	Asas-SN
XY	Cet	p	58085.4270	0.0050	+	0.0056	ccd	74	50mm+ST7
XY	Cet	s	58092.3780	0.0100	+	0.0052	ccd	50	50mm+ST7
CT	Cet	p	58057.4290	0.0010	-	0.0041	ccd	37	50mm+G2
G4686.02061	Cet	p	58105.3070	0.0100	+	0.0018	ccd	134	50mm+ST7
U	CrB	p	57608.3972	0.0060	+	0.0418	vis	12	binocular
RW	CrB	p	57936.4470	0.0030	+	0.0042	ccd	60	50mm+ST7
V	Crt	p	58210.3930	0.0080	+	0.0053	ccd	91	50mm+ST7
VV	Crt	p	57882.4670	0.0150	+	0.0004	ccd	143	50mm+G2
Y	Cyg	p	58299.5010	0.0030	-	0.1229	ccd	51	50mm+ST7
BR	Cyg	p	58300.4570	0.0020	-	0.0003	ccd	35	50mm+ST7
DK	Cyg	p	57949.4480	0.0060	-	0.0027	ccd	60	50mm+ST7
GO	Cyg	s	57969.4550	0.0080	-	0.0016	ccd	61	50mm+ST7
GO	Cyg	p	58044.4660	0.0050	+	0.0031	ccd	39	50mm+G2
KR	Cyg	p	57995.4110	0.0050	+	0.0054	ccd	96	50mm+ST7
V0382	Cyg	p	57968.4730	0.0080	+	0.0018	ccd	105	50mm+ST7
V0442	Cyg	p	58049.4130	0.0030	-	0.0005	ccd	90	50mm+G2
V0444	Cyg	p	57959.5030	0.0100	+	0.0131	ccd	126	50mm+ST7
V0477	Cyg	p	57982.4900	0.0030	+	0.0345	ccd	34	50mm+G2
V0548	Cyg	p	57941.6060	0.0023	-	0.0089	ccd	131	50mm+G2
V1034	Cyg	p	58011.5430	0.0050	+	0.0052	ccd	134	50mm+ST7
V1425	Cyg	p	57989.4810	0.0050	+	0.0040	ccd	65	50mm+ST7
V1719	Cyg	R	58058.4520	0.0040	+	0.0049	ccd	136	50mm+G2
TY	Del	p	58414.3860	0.0050	+	0.0033	ccd	120	50mm+G2
TY	Del	p	58414.3910	0.0100	+	0.0083	ccd	66	50mm+ST7
BY	Del	p	57453.1410	0.0200	-	0.0275	V	20	Asas-SN
BY	Del	s	57919.7810	0.0200	+	0.0214	V	22	Asas-SN
DM	Del	p	58329.4490	0.0050	-	0.0026	ccd	89	50mm+ST7
GG	Del	p	58413.3000	0.0030	-	0.0060	ccd	122	28cm+G2
PP	Del	p	58001.5040	0.0100	+	0.0135	ccd	122	50mm+ST7
PP	Del	p	58346.4840	0.0100	+	0.0030	ccd	158	50mm+ST7
TZ	Dra	p	57970.4880	0.0020	-	0.0022	ccd	57	50mm+ST7
BN	Dra	p	56759.0500	0.0100	-	0.0019	V	123	Asas-SN
GQ	Dra	p	57946.4480	0.0030	+	0.0033	ccd	88	50mm+ST7
V0450	Dra	p	58227.4130	0.0050	-	0.0010	ccd	95	50mm+ST7
G4552.01643	Dra	s	57454.8050	0.0040	+	0.0031	V	436	Asas-SN
G4552.01643	Dra	p	58091.1130	0.0040	+	0.0007	V	397	Asas-SN
SV	Equ	p	58019.3730	0.0200	+	0.0045	ccd	81	50mm+ST7
UZ	Equ	p	58047.4120	0.0070	-	0.0014	ccd	113	50mm+G2
RafV114	Equ	p	57228.8300	0.0300	-	0.0000	V	80	Asas-SN
RX	Eri	R	58146.3700	0.0070	+	0.0021	ccd	102	50mm+ST7
SV	Eri	R	58078.4360	0.0100	+	0.0011	ccd	105	50mm+ST7
G4720.00687	Eri	p	58094.4290	0.0100	-	0.0026	ccd	69	50mm+ST7
NSV 03268	Gem	s	57070.8400	0.0030	+	0.0045	V	138	Asas-SN
NSV 03268	Gem	p	57853.7390	0.0030	+	0.0000	V	169	Asas-SN
DY	Gru	p	58039.4400	0.0020	+	0.0084	ccd	72	50mm+G2
Z	Her	s	57947.4940	0.0200	-	0.0102	ccd	106	50mm+ST7
Z	Her	s	57947.4970	0.0080	-	0.0072	ccd	235	50mm+G2
RX	Her	p	57604.4380	0.0100	+	0.0124	vis	16	binocular
RX	Her	p	57661.3370	0.0070	-	0.0029	vis	12	binocular
TT	Her	p	58289.4490	0.0080	+	0.0018	ccd	104	50mm+ST7

AK	Her	p	58297.4740	0.0020	+	0.0025	ccd	4	50mm+ST7
DI	Her	p	57921.4470	0.0090	-	0.0016	ccd	91	50mm+ST7
HS	Her	p	58284.4490	0.0050	-	0.0096	ccd	120	50mm+ST7
XX	Lac	p	57716.7790	0.0050	+	0.0001	V	43	Asas-SN
OT	Lac	p	57710.8210	0.0100	+	0.1685	V	77	Asas-SN
OT	Lac	s	58228.0970	0.0150	-	0.1185	V	50	Asas-SN
G3200.01872	Lac	p	58412.3720	0.0080	+	0.0003	ccd	89	50mm+G2
RR	Leo	R	58268.4350	0.0040	+	0.0004	ccd	53	50mm+ST7
UZ	Leo	p	58229.4730	0.0080	+	0.0081	ccd	81	50mm+ST7
G1403.01508	Leo	p	57430.7660	0.0080	-	0.0017	V	85	Asas-SN
RV	Lib	p	57897.4630	0.0200	-	0.0002	ccd	152	50mm+G2
RV	Lib	s	57913.4620	0.0200	-	0.0849	ccd	143	50mm+G2
LZ	Lib	s	57892.5770	0.0100	+	0.0036	ccd	56	50mm+G2
LZ	Lib	s	57896.4510	0.0080	-	0.0212	ccd	72	50mm+G2
LZ	Lib	s	57901.4360	0.0040	+	0.0016	ccd	52	50mm+G2
LZ	Lib	p	57901.6100	0.0020	-	0.0018	ccd	45	50mm+G2
LZ	Lib	p	57904.4480	0.0060	+	0.0007	ccd	72	50mm+G2
LZ	Lib	p	57921.4780	0.0070	+	0.0177	ccd	94	50mm+G2
IU	Lup	p	57894.5720	0.0020	-	0.0021	ccd	40	50mm+G2
RR	Lyr	R	57881.4600	0.0100	-	0.0324	ccd	90	50mm+ST7
FL	Lyr	p	58271.4630	0.0050	-	0.0008	ccd	122	50mm+ST7
LW	Lyr	p	56799.0950	0.0100	+	0.0000	V	175	Asas-SN
V0426	Lyr	p	57905.8760	0.0200	-	1.0462	V	68	Asas-SN
V0426	Lyr	s	58028.7440	0.0200	-	1.2508	V	66	Asas-SN
DG	Mic	p	58038.4330	0.0040	-	0.0029	ccd	127	50mm+G2
HR	Mon	p	58199.6790	0.0100	+	0.0289	V	84	Asas-SN
HS	Mon	p	57471.6260	0.0100	+	0.0023	V	134	Asas-SN
MY	Mon	p	57431.6910	0.0200	+	0.0054	V	107	Asas-SN
V0379	Mon	p	58021.7830	0.0200	-	0.0016	V	104	Asas-SN
V0393	Mon	p	57320.0640	0.0200	+	0.0023	V	136	Asas-SN
CzeV175	Mon	p	52189.8730	0.0200	+	0.0000	V	23	Asas-SN
CzeV175	Mon	p	52743.5110	0.0200	+	0.0186	V	31	Asas-SN
CzeV175	Mon	s	52981.7570	0.0200	-	0.0149	V	45	Asas-SN
CzeV175	Mon	s	53113.5530	0.0200	-	0.0331	V	21	Asas-SN
CzeV175	Mon	s	53644.8830	0.0200	-	0.0155	V	24	Asas-SN
CzeV175	Mon	s	54133.6340	0.0200	+	0.0092	V	12	Asas-SN
CzeV175	Mon	s	54135.6590	0.0200	+	0.0063	V	19	Asas-SN
CzeV175	Mon	p	54797.7670	0.0200	+	0.0017	V	25	Asas-SN
CzeV175	Mon	p	55162.7760	0.0200	-	0.0131	V	41	Asas-SN
CzeV174	Mon	p	53809.6140	0.0200	+	0.0000	V	56	Asas-SN
CzeV085	Mon	p	57439.9010	0.0200	+	0.0002	V	54	Asas-SN
CzeV147	Mon	p	57858.5410	0.0200	+	0.0000	V	72	Asas-SN
U	Oph	p	57578.4894	0.0090	+	0.0000	vis	17	binocular
U	Oph	p	57615.4016	0.0060	-	0.0218	vis	15	binocular
U	Oph	s	57641.4118	0.0060	-	0.0105	vis	11	binocular
SX	Oph	p	57946.6790	0.0100	-	0.0030	V	74	Asas-SN
SX	Oph	s	58188.0880	0.0100	-	0.0009	V	74	Asas-SN
V0839	Oph	p	58307.5150	0.0020	+	0.0013	ccd	37	50mm+ST7
V1010	Oph	s	58308.4260	0.0050	+	0.0092	ccd	75	50mm+ST7
V1016	Oph	p	57922.4630	0.0040	-	0.0095	ccd	162	28cm+G2
FZ	Ori	p	58413.5470	0.0020	+	0.0093	ccd	122	28cm+G2
U	Peg	p	58350.3880	0.0050	-	0.0002	ccd	66	50mm+ST7
BK	Peg	s	58400.5650	0.0050	-	0.0072	ccd	119	50mm+ST7

BL	Peg	R	58010.8580	0.0400	+	0.0001	V	406	Asas-SN
DI	Peg	p	58055.4660	0.0010	+	0.0099	ccd	16	50mm+G2
DY	Peg	R	58050.4440	0.0010	-	0.0004	ccd	48	50mm+G2
KP	Peg	p	58064.4060	0.0070	+	0.0042	ccd	147	50mm+G2
QT	Peg	p	58017.4260	0.0100	+	0.0011	ccd	212	50mm+ST7
QT	Peg	p	58416.3180	0.0100	-	0.0058	ccd	125	50mm+ST7
V0357	Peg	s	58062.4000	0.0040	+	0.0030	ccd	109	50mm+G2
V0407	Peg	p	58056.3860	0.0040	-	0.0036	ccd	62	50mm+G2
V0407	Peg	p	58391.3900	0.0050	-	0.0006	ccd	90	50mm+ST7
V0481	Peg	p	58042.4160	0.0050	-	0.0010	ccd	106	50mm+G2
V0481	Peg	s	58054.4440	0.0030	-	0.0006	ccd	106	50mm+G2
V0481	Peg	p	58418.4420	0.0050	-	0.0010	ccd	246	50mm+G2
G0548.00675	Peg	p	58031.9110	0.0120	+	0.0075	V	285	Asas-SN
G0570.00106	Peg	p	58366.4140	0.0100	-	0.0007	ccd	130	50mm+ST7
G1128.00329	Peg	p	56993.7300	0.0100	+	0.0000	V	223	Asas-SN
G1134.00160	Peg	s	58029.8400	0.0080	+	0.0047	V	177	Asas-SN
G1134.00160	Peg	p	58066.6940	0.0900	+	0.0022	V	154	Asas-SN
G1159.00073	Peg	p	58033.9200	0.0100	+	0.0013	V	138	Asas-SN
CzeV620	Peg	p	58034.9960	0.0200	+	0.0095	V	102	Asas-SN
G1684.00862	Peg	s	56902.7500	0.0100	-	0.0286	V	210	Asas-SN
G1684.00862	Peg	p	58070.5820	0.0070	+	0.0000	V	230	Asas-SN
G1691.01764	Peg	p	57327.7640	0.0080	+	0.0000	V	267	Asas-SN
G1691.01764	Peg	s	57327.9590	0.0100	-	0.0010	V	299	Asas-SN
G1698.01230	Peg	p	57969.0850	0.0100	+	0.0000	V	274	Asas-SN
G1698.01230	Peg	s	57969.3680	0.0150	+	0.0000	V	275	Asas-SN
G1709.00614	Peg	p	57296.9760	0.0060	+	0.0013	V	297	Asas-SN
G1716.00468	Peg	p	57944.7850	0.0070	-	0.0003	V	270	Asas-SN
G1716.00468	Peg	s	58034.7520	0.0100	-	0.0015	V	249	Asas-SN
G1720.00818	Peg	p	58088.5900	0.0300	-	0.0008	V	579	Asas-SN
G1721.01591	Peg	s	56916.9920	0.0050	+	0.0053	V	214	Asas-SN
G1721.01591	Peg	p	57381.7790	0.0050	+	0.0047	V	262	Asas-SN
SvkV005	Peg	s	57573.9350	0.0080	+	0.0095	V	31	Asas-SN
SvkV005	Peg	p	57610.9700	0.0050	-	0.0100	V	25	Asas-SN
G2197.00872	Peg	p	56619.7160	0.0100	-	0.0036	V	323	Asas-SN
G2197.00872	Peg	s	56737.1320	0.0100	-	0.0031	V	422	Asas-SN
G2201.00469	Peg	s	56789.0500	0.0100	+	0.0001	V	257	Asas-SN
G2201.00469	Peg	p	57248.9970	0.0070	+	0.0002	V	254	Asas-SN
G2202.00548	Peg	p	57321.7510	0.0200	+	0.0014	V	85	Asas-SN
G2202.00548	Peg	s	57567.0000	0.0300	+	0.0033	V	91	Asas-SN
G2203.02119	Peg	p	57592.0270	0.0100	+	0.0039	V	298	Asas-SN
G2207.02262	Peg	p	58002.9220	0.0200		0.0000	V	206	Asas-SN
G2208.01808	Peg	p	58033.9090	0.0200		0.0000	V	209	Asas-SN
G2209.00606	Peg	p	58043.3830	0.0040	-	0.0008	ccd	108	50mm+G2
G2211.02152	Peg	p	57558.9570	0.0150	+	0.0095	V	286	Asas-SN
G2211.02152	Peg	s	57658.9380	0.0200	+	0.0051	V	290	Asas-SN
G2212.00583	Peg	s	57613.8290	0.0100	+	0.0000	V	327	Asas-SN
G2212.00583	Peg	p	57913.8580	0.0100	+	0.0006	V	246	Asas-SN
G2719.02060	Peg	p	57145.0710	0.0100	+	0.0000	V	233	Asas-SN
G2719.02060	Peg	s	58023.5590	0.0120	-	0.0008	V	275	Asas-SN
SvkV092	Peg	s	57234.0030	0.0100	-	0.0008	V	112	Asas-SN
SvkV092	Peg	p	57853.1190	0.0100	+	0.0000	V	112	Asas-SN
G2337.01479	Per	p	57079.4350	0.0090	-	0.0095	V	168	Asas-SN
G2337.01479	Per	s	57603.0500	0.0090	-	0.0119	V	223	Asas-SN

G2354.00963	Per	p	57357.8980	0.0200	-	0.0050	V	60	Asas-SN
G2354.00963	Per	s	57793.7190	0.0400	+	0.0047	V	55	Asas-SN
G2354.00988	Per	p	57579.1270	0.0200	+	0.0003	V	131	Asas-SN
G2363.00514	Per	s	58015.9960	0.0300	+	0.0062	V	161	Asas-SN
G2363.00514	Per	p	58112.7190	0.0300	-	0.0010	V	154	Asas-SN
G2363.01606	Per	p	58046.0490	0.0200	-	0.0000	V	66	Asas-SN
G2368.00816	Per	p	58119.8660	0.0100	-	0.0018	V	96	Asas-SN
G2368.01574	Per	p	58026.0040	0.0500	+	0.0002	V	114	Asas-SN
G2851.00945	Per	s	57317.9500	0.0400	-	0.0108	V	193	Asas-SN
G2851.00945	Per	p	58169.9260	0.0400	-	0.0004	V	154	Asas-SN
G2851.01552	Per	p	58065.9870	0.0100	+	0.0037	V	140	Asas-SN
G2851.01552	Per	s	58078.8850	0.0100	-	0.0022	V	111	Asas-SN
G2855.00949	Per	s	58086.9480	0.0100	-	0.0014	V	135	Asas-SN
G2855.00949	Per	p	58115.9150	0.0100	-	0.0009	V	171	Asas-SN
G2856.00504	Per	p	57618.9920	0.0100	+	0.0008	V	123	Asas-SN
G2856.00504	Per	s	58086.9480	0.0150	+	0.0018	V	115	Asas-SN
G2863.00573	Per	p	57610.0740	0.0200	-	0.0010	V	132	Asas-SN
G2869.00639	Per	s	58103.2870	0.0010	-	0.0016	ccd	56	50mm+ST7
G2869.00639	Per	p	58103.4660	0.0010	+	0.0014	ccd	50	50mm+ST7
G2869.00639	Per	s	58103.6420	0.0010	+	0.0016	ccd	40	50mm+ST7
G3318.00673	Per	p	58126.8640	0.0100	-	0.0007	V	154	Asas-SN
SZ	Psc	p	57608.4222	0.0060	+	0.0785	vis	8	binocular
SZ	Psc	p	57612.4217	0.0070	+	0.1123	vis	7	binocular
VY	Psa	p	58037.4130	0.0070	+	0.0020	ccd	87	50mm+G2
XZ	Psa	p	58013.5350	0.0050	+	0.0060	ccd	140	50mm+G2
ZZ	Psa	p	58040.4060	0.0020	-	0.0011	ccd	102	50mm+G2
G1606.01750	Sge	s	57971.4800	0.0050	+	0.0036	ccd	84	50mm+ST7
G1606.01750	Sge	p	57988.4380	0.0080	-	0.0007	ccd	89	50mm+ST7
G1606.01750	Sge	p	57991.3920	0.0060	+	0.0034	ccd	71	50mm+ST7
V0525	Sgr	p	57931.4960	0.0050	+	0.0066	ccd	55	50mm+G2
V4197	Sgr	s	57948.5270	0.0050	+	0.0129	ccd	146	50mm+G2
V4396	Sgr	p	57985.4870	0.0040	+	0.0101	ccd	122	50mm+G2
V4403	Sgr	p	57949.4140	0.0070	-	0.0007	ccd	69	50mm+G2
V4437	Sgr	p	57967.5340	0.0050	+	0.0074	ccd	393	50mm+G2
V4437	Sgr	p	57984.5850	0.0050	+	0.0090	ccd	200	50mm+G2
V0701	Sco	p	57928.5350	0.0050	+	0.0023	ccd	70	50mm+G2
V0701	Sco	s	57981.4870	0.0050	+	0.0040	ccd	128	50mm+G2
V0760	Sco	p	57920.4880	0.0040	-	0.0101	ccd	149	50mm+G2
V0906	Sco	p	57953.5530	0.0100	+	0.0475	ccd	282	50mm+G2
V1041	Sco	p	57919.5720	0.0070	-	0.0085	ccd	164	50mm+G2
V1041	Sco	p	57930.5090	0.0070	-	0.0086	ccd	100	50mm+G2
V1055	Sco	s	57934.4560	0.0030	+	0.0032	ccd	52	50mm+G2
V1081	Sco	p	57922.5310	0.0200	+	0.0026	ccd	269	50mm+G2
ER	Sct	p	58005.4640	0.0100	-	0.0049	ccd	172	50mm+G2
VY	Sex	p	58214.4260	0.0040	-	0.0062	ccd	49	50mm+ST7
V1370	Tau	s	57612.1060	0.0050	+	0.0011	V	147	Asas-SN
V1370	Tau	p	57970.1240	0.0020	+	0.0004	V	141	Asas-SN
IO	UMa	p	57873.5210	0.0080	+	0.0011	ccd	93	50mm+ST7
TY	UMi	p	58323.4700	0.0020	+	0.0077	ccd	57	50mm+ST7
AK	Vir	p	57916.4930	0.0100	-	0.0028	ccd	99	50cm+G2
BD	Vir	p	57893.5310	0.0010	-	0.0002	ccd	33	50mm+G2
BH	Vir	s	57913.4560	0.0070	-	0.0026	ccd	120	50mm+ST7
CX	Vir	p	57895.4970	0.0020	+	0.0009	ccd	59	50mm+G2

FQ	Vir	p	57895.4840	0.0010	+	0.0009	ccd	35	50mm+G2
GR	Vir	p	57879.4330	0.0030	+	0.0022	ccd	80	50mm+G2
LU	Vir	p	57886.4820	0.0070	-	0.0174	ccd	149	50mm+G2
NS	Vir	p	57898.4880	0.0060	+	0.0006	ccd	188	50mm+G2
NS	Vir	p	58226.4710	0.0100	-	0.0006	ccd	175	50mm+ST7
V0467	Vir	p	57912.4890	0.0100	-	0.0033	ccd	219	50mm+G2
V0614	Vir	p	57873.5190	0.0010	+	0.0044	ccd	16	50mm+G2
BW	Vul	p	58372.4160	0.0050	-	0.0001	ccd	163	50mm+ST7
DW	Vul	p	57567.9810	0.0200	+	0.0024	V	59	Asas-SN
V0495	Vul	p	58416.4190	0.0090	+	0.0042	ccd	347	50mm+G2

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