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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 0162 (Paschke 2014).

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
Car+G1 = Carenar wide angle, G1 camera, Eggerberg, Switzerland
50mm+G1 = 50/135 mm teleobjective, G1 camera, Eggerberg , Switzerland
50mm+G1-2000 = 50/135 mm teleobjective, G1 camera, Cabeca Fundao, Fogo, 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 Identification of stars not included in GCVS and NSV

Table 1: Coordinates (J2000) of stars that are not identified in the GCVS and NSV (Samus et al. 2013).

ID	Const.	RA [h m s]	DE [° ' "]
GSC 00512-00194	Aqr	20 48 58.6	+00 27 18
GSC 00902-00318	Boo	14 15 47.1	+08 08 12
GSC 04281-00972	Cas	23 46 28.6	+61 16 48
GSC 02040-01409	CrB	15 57 33.6	+28 32 23
GSC 04391-00491	Dra	11 11 28.6	+73 06 54
GSC 01522-00819	Her	17 02 40.0	+15 11 23
GSC 01437-00805	Leo	11 18 19.3	+16 28 05
GSC 00735-02898	Ori	6 22 05.9	+10 52 24
GSC 02750-00854	Peg	23 01 31.0	+30 44 27
GSC 03695-01845	Per	2 38 24.0	+56 31 57
GSC 01606-01750	Sge	19 38 32.7	+17 06 33
GSC 00459-00892	Ser	18 43 16.9	+05 58 00
GSC 04896-01029	Sex	9 57 06.0	-01 20 42
GSC 04386-00604	UMa	9 47 54.9	+70 01 29
GSC 04386-01707	UMa	9 38 00.3	+70 37 57

3 Light elements of studied stars

Table 2 shows the elements in HJD. For pulsating stars times of maxima (R, hump - r) and for eclipsing binary (primary - p, secondary - s) the times of minima are given. If the star is eclipsing and mentioned in the O-C GATE (Paschke & Brat 2006), then the elements are identical to those of the O-C GATE, state June 2015. Column Date shows the date when the elements were inserted into the database.

Table 2: Light elements of stars.

ID	Const.	type	HJD [24.....]	P [d]	Date	Coments
CC	And	R	34604.9480	0.124908	30.06.2009	
DV	Aqr	p	26160.5000	1.57553	10.08.2010	
EE	Aqr	p	40828.7800	0.5089958	10.10.2005	
GSC 00512-00194	Aqr	p	51420.9740	0.5135	10.05.2012	
V0409	Aql	p	25503.3850	2.049404	25.11.2005	
V0418	Aql	p	25863.4200	2.234907	26.09.2014	
V1331	Aql	p	42610.0630	1.364194	28.06.2015	
V1331	Aql	s	42610.7450	1.364194	28.06.2015	
V1353	Aql	p	34461.5290	1.414802	26.10.2007	
V1461	Aql	p	48500.4370	1.763062	24.09.2014	
V1461	Aql	s	48501.3190	1.763062	24.09.2014	
V1825	Aql	p	52879.6420	1.705518	23.09.2014	
V1825	Aql	s	52880.4950	1.705518	23.09.2014	
RV	Ari	R	35017.5124	0.093128264	01.06.1996	
RW	Ari	R	43408.4040	0.354314	20.05.2012	
AG	Ari	p	48500.2720	1.963115	12.10.2007	
V0425	Aur	p	48500.8290	1.568585	24.12.2013	
ST	Boo	R	19181.5020	0.622292	29.01.2012	
SY	Boo	p	51273.6160	0.714484	21.06.2014	
TZ	Boo	p	37378.4100	0.29716095	18.02.2006	
UY	Boo	R	41835.6850	0.650876	12.05.2015	
YZ	Boo	R	42146.3550	0.10409158	16.04.2002	
AE	Boo	R	30388.2030	0.3148933	26.06.2015	
CK	Boo	p	42537.5780	0.3551532	10.05.2015	
EM	Boo	p	51317.9260	2.44625	11.09.2011	
GSC 00902-00318	Boo	p	53396.8730	0.326862	01.04.2015	
CU	Cam	p	48502.5230	3.36378	03.02.2015	
RY	Cnc	p	46762.6070	1.092946	19.02.2015	
BI	CVn	p	44365.1970	0.38421	22.04.2009	
BO	CVn	p	48724.6820	0.517462	18.10.2003	
CI	CVn	p	48500.5180	0.8158745	18.08.2010	
FZ	CMa	p	41742.3170	1.273037	18.12.2013	
GU	CMa	p	47078.1550	1.61013	10.03.2013	
TZ	CMi	p	25217.5300	1.776814	07.03.2009	
AY	CMi	p	31555.4500	3.920458	02.01.2014	
BL	CMi	p	47170.8200	5.90398	01.01.2015	
EI	CMi	p	52390.4900	0.362537	22.12.2014	
V0384	Cas	p	36073.5160	1.108265	01.05.2006	
V0518	Cas	p	51364.7000	6.311975	11.01.2015	
V0518	Cas	s	51367.8560	6.311975	11.01.2015	

V0766	Cas	p	48501.2550	2.329651	01.11.2014	
V0766	Cas	s	48502.4200	2.329651	01.11.2014	
GSC 04281-00972	Cas	p	56055.6150	1.96505	14.01.2014	
GSC 04281-00972	Cas	s	56056.5980	1.96505	14.01.2014	
V0757	Cen	p	42308.6930	0.3431685	02.09.2010	
U	Cep	p	40874.3040	2.493081	09.10.2014	
RS	Cep	p	40862.6070	12.41998	07.01.2015	
RZ	Cep	R	11640.7160	0.3086643	28.09.2012	
RZ	Cep	r	11640.6810	0.3086643	28.09.2012	hump
XZ	Cep	p	43297.8110	5.09725	11.10.2004	
XZ	Cep	s	43300.3596	5.09725	11.10.2004	
BB	Cep	p	27327.5100	30.1861	27.05.2006	
EI	Cep	p	36820.4665	8.43935	29.05.2006	
EI	Cep	s	36824.6862	8.43935	29.05.2006	
EK	Cep	p	39002.7290	4.427794	16.08.2011	
EK	Cep	s	39004.9380	4.427794	16.08.2011	
EX	Cep	p	52873.3410	13.43444	30.05.2006	
KL	Cep	p	34724.7000	259.4	12.01.2015	SR
KL	Cep	p	34724.7000	115.59	16.04.2007	eclipsing
NN	Cep	p	44507.4033	2.058306	04.06.2006	
NN	Cep	s	44508.4325	2.058306	04.06.2006	
V0441	Cep	p	48500.9300	1.649052	18.10.2013	
V0443	Cep	p	48500.1290	2.096582	06.07.2014	
V0698	Cep	p	50421.4411	6.6185	17.12.2006	
V0698	Cep	s	50424.7503	6.6185	17.12.2006	
UX	Com	p	25798.3790	3.642407	07.04.2015	
LR	Com	p	49687.2960	0.896296	06.07.2009	
RT	CrB	p	28273.2430	5.117155	18.10.2004	
RT	CrB	s	28275.8016	5.117155	18.10.2004	
GSC 02040-01409	CrB	R	55348.1140	0.315106	19.06.2013	
GSC 02040-01409	CrB	p	55348.2720	0.315106	19.06.2013	
RS	Crv	R	29401.4970	0.53686	29.08.2005	
RV	Crv	p	41029.3980	0.7472474	06.02.2015	
BH	Dra	p	40019.7950	1.81723857	01.06.1996	
BS	Dra	p	41461.4242	3.364012	02.11.2006	
GQ	Dra	p	48500.5580	0.765903	11.10.2014	
GSC 04391-00491	Dra	p	51319.1200	0.439403	13.03.2012	
RT	Equ	R	37872.4160	0.444842	19.07.2014	
SV	Eri	R	47176.8650	0.713876	31.10.2014	
BZ	Eri	p	25558.4450	0.6641701	01.06.1996	
RX	Her	p	33170.3980	1.7785724	01.06.1996	
TT	Her	p	48476.4000	0.912078	24.01.2004	
UX	Her	p	48107.4600	1.548856	01.01.2014	
V0732	Her	R	41561.3350	0.3567445	14.12.2014	
GSC 01522-00819	Her	p	55004.3600	0.231154	26.06.2014	
FG	Hya	p	48271.6010	0.3278324	26.01.2015	
LO	Hya	p	44623.7848	2.49951	20.12.2014	
LO	Hya	s	44625.0346	2.49951	20.12.2014	
UV	Leo	p	47615.4370	0.60008641	20.09.2014	
UZ	Leo	p	39800.4350	0.61805	27.12.2013	
XY	Leo	p	45074.4930	0.2841029	06.11.2013	
XZ	Leo	p	45025.3700	0.487737	13.01.2010	
FK	Leo	p	48501.0000	1.737177	14.02.2015	

GSC 01437-00805	Leo	p	54850.8170	2.00402	28.03.2015	
EH	Lib	R	33438.6082	0.08841326	30.03.2012	
IL	Lib	p	48443.8420	5.769376	16.06.2015	
FY	Mon	p	51451.3430	30.761	08.01.2015	
V2288	Oph	p	53901.4520	21.6656	03.01.2015	
V2288	Oph	s	53906.8020	21.6656	03.01.2015	displaced
V2388	Oph	p	48500.1200	0.8022985	14.09.2012	
Z	Ori	p	25190.7600	5.203277	02.01.2015	
FO	Ori	p	31820.6270	18.80055	27.12.2007	
OS	Ori	p	41353.4300	2.383522	21.04.2011	
V1028	Ori	p	42359.6590	3.011428	01.06.1996	
V1383	Ori	p	48500.0200	0.6663	21.01.2015	
V1385	Ori	p	48501.0175	2.237955	15.12.2013	
V1388	Ori	p	48501.7719	2.187068	30.12.2014	
GSC 00735-02898	Ori	R	52384.8000	0.096371	15.01.2015	
eta	Ori	p	15765.8200	7.989268	01.06.1996	
eta	Ori	s	15761.8260	7.989268	01.06.1996	
GSC 02750-00854	Peg	p	52884.4259	0.471638	21.09.2007	
RW	Per	p	36701.1250	13.19891	06.01.2014	
CM	Per	p	29638.3900	38.6319	19.10.2012	
CR	Per	p	56310.3630	8.8097	15.01.2015	
CR	Per	s	56313.5050	8.8097	15.01.2015	displaced
CS	Per	p	28022.2700	24.2576	06.01.2015	
DG	Per	p	28035.2500	56.74853	13.01.2015	
EN	Per	p	27995.5400	10.24654	07.01.2015	
HU	Per	p	16739.4100	17.25453	25.07.2007	
HU	Per	s	16748.0370	17.25453	25.07.2007	
GSC 03695-01845	Per	p	54277.5450	4.606496	11.01.2015	
GSC 03695-01845	Per	s	54279.2480	4.606496	11.01.2015	displaced
SX	Psc	p	45992.2890	0.8258808	01.06.1996	
GW	Psc	p	52873.9090	0.3363365	06.01.2015	
HL	Psc	p	53235.6140	0.491606	19.10.2014	
HT	Psc	R	51382.9300	0.547814	27.02.2012	
TY	Pup	p	34412.1060	0.8192423	07.08.2007	
AV	Pup	p	31178.1760	0.4350067	12.01.2015	
PV	Pup	p	43119.7334	1.6607276	21.12.2014	
GSC 01606-01750	Sge	p	54392.5350	1.474913	02.08.2013	
GSC 01606-01750	Sge	s	54393.2720	1.474913	02.08.2013	
V2349	Sgr	p	26916.6500	3.40852	25.05.2014	
V2349	Sgr	s	26918.3540	3.40852	25.05.2014	
VY	Ser	R	48356.4756	0.71409615	19.04.2001	
CX	Ser	p	31213.4780	0.997289	01.02.2011	
CX	Ser	s	31213.9780	0.997289	01.02.2011	
V0434	Ser	p	54271.2100	0.884	25.09.2007	
GSC 00459-00892	Ser	p	54594.8050	3.6945708	25.06.2014	
GSC 00459-00892	Ser	p	54594.8050	3.69457	23.06.2014	
VY	Sex	p	51318.5590	0.443436	23.12.2014	
GSC 04896-01029	Sex	p	51870.1700	0.987046	02.04.2015	
TX	UMa	p	44998.1440	3.063291	11.02.2015	
ZZ	UMa	p	35951.4820	2.29926	06.04.2015	
GZ	UMa	p	51556.8300	6.541975	27.04.2011	
II	UMa	p	48500.0730	0.825225	16.10.2014	
IO	UMa	p	51315.6730	5.52004	01.04.2014	

GSC 04386-00604	UMa	p	53082.0810	1.1989	29.08.2007
GSC 04386-01707	UMa	p	53502.1800	2.21954	07.03.2015
RS	UMi	p	44756.7700	6.16867	01.01.2015
TY	UMi	p	48500.2764	1.724878	06.02.2012
LU	Vir	p	48500.4480	0.492241	01.02.2012
NN	Vir	p	48500.5120	0.4806868	07.09.2009
V0467	Vir	p	54597.6240	0.604572	02.08.2011

4 Maxima and minima times

Table 3 shows maxima and minima of observed stars. The first columns give stellar identification taken from GCVS, NSV and GSC. The third column (type) gives the kind of extremum: p = primary, s = secondary, R = maximum. The fourth column gives Julian heliocentric time of the maxima decreased by 2400000. It is based on UTC, leap sonds included. Column 'Err' gives the uncertainty of minima time. In the sixth column O-C values in days are given. When no elements are known, than O-C=0. Column 'Filter' gives information about the passband in which measurements were taken (ccd= unfiltered ccd, V = Johnson visual, I = Cousin infrared). Finally, the last column give instruments used (see s. 1).

Table 3: Maxima and minima of observed stars.

ID	Const.	type	HJD [24.....]	Err	O-C [d]	Filter	N obs	Instrument
CC	And	R	56963.350	0.010	-0.001	ccd	45	50mm+ST7
CC	And	R	56963.482	0.005	+0.002	ccd	51	50mm+ST7
CC	And	R	56963.603	0.008	-0.002	ccd	50	50mm+ST7
DV	Aqr	p	56886.479	0.010	-0.007	ccd	446	35mm+ST7
EE	Aqr	p	56955.298	0.004	+0.004	ccd	90	50mm+ST7
GSC 00512-00194	Aqr	p	56933.418	0.008	+0.021	ccd	320	28cm+G2
V0409	Aql	p	57199.470	0.010	+0.003	ccd	120	28cm+G2
V0418	Aql	p	56926.384	0.003	-0.008	ccd	150	28cm+G2
V1331	Aql	p	57201.482	0.004	-0.000	ccd	245	50mm+ST7
V1353	Aql	p	56856.432	0.010	+0.002	ccd	192	10cm+G2
V1461	Aql	p	56924.347	0.008	-0.000	ccd	106	50mm+ST7
V1825	Aql	p	56923.424	0.005	-0.001	ccd	104	50mm+ST7
RV	Ari	R	56933.583	0.002	+0.010	ccd	261	28cm+G2
RW	Ari	R	56926.548	0.006	+0.002	ccd	302	28cm+G2
AG	Ari	p	57010.373	0.004	-0.002	ccd	94	50mm+ST7
AG	Ari	p	57012.335	0.003	-0.004	ccd	122	50mm+ST7
V0425	Aur	p	56955.505	0.009	+0.003	ccd	174	50mm+ST7
ST	Boo	R	57028.673	0.010	-0.006	ccd	92	50mm+ST7
SY	Boo	p	56829.442	0.004	-0.002	ccd	132	28cm+G2
TZ	Boo	p	57079.583	0.004	-0.004	ccd	38	50mm+ST7
UY	Boo	R	57153.394	0.005	-0.007	ccd	78	50mm+ST7
YZ	Boo	R	57032.706	0.002	+0.006	ccd	52	50mm+ST7
YZ	Boo	R	57041.655	0.002	+0.003	ccd	38	50mm+ST7
AE	Boo	R	56772.483	0.010	+0.000	ccd	71	60mm+G1
AE	Boo	R	57199.468	0.010	-0.010	ccd	67	50mm+ST7
CK	Boo	s	57134.551	0.008	-0.002	ccd	322	35mm+G1-2000
CK	Boo	p	57152.488	0.008	+0.001	ccd	80	50mm+ST7

EM	Boo	s	57055.610	0.010	+0.005	ccd	0	50mm+ST7
GSC 00902-00318	Boo	s	57113.454	0.004	-0.003	ccd	40	50mm+ST7
GSC 00902-00318	Boo	p	57113.616	0.006	-0.005	ccd	51	50mm+ST7
CU	Cam	p	57056.620	0.010	+0.004	ccd	74	50mm+ST7
RY	Cnc	p	57072.367	0.001	+0.000	ccd	181	28cm+G2
BI	CVn	s	57064.686	0.009	+0.004	ccd	91	50mm+ST7
BO	CVn	s	57114.555	0.005	+0.002	ccd	114	50mm+ST7
CI	CVn	s	57089.637	0.007	+0.000	ccd	81	50mm+ST7
FZ	CMa	p	57017.510	0.005	+0.022	ccd	199	50mm+ST7
GU	CMa	p	57017.496	0.010	+0.009	ccd	198	50mm+ST7
TZ	CMi	p	57013.615	0.020	-0.001	I	28	Tarot Nord
TZ	CMi	p	57013.616	0.005	-0.001	V	29	Tarot Nord
TZ	CMi	s	57014.502	0.008	-0.001	V	30	Tarot Nord
AY	CMi	p	57022.741	0.003	-0.004	V	128	Tarot N+S
AY	CMi	p	57022.750	0.003	+0.005	I	131	Tarot N+S
BL	CMi	p	57018.659	0.020	+0.000	I	39	Tarot
BL	CMi	p	57018.663	0.020	+0.004	I	38	Tarot
BL	CMi	s	57021.632	0.020	+0.023	V	40	Tarot
BL	CMi	s	57021.636	0.020	+0.027	V	37	Tarot
EI	CMi	p	57013.562	0.002	+0.000	ccd	211	28cm+G2
V0384	Cas	p	56924.422	0.005	+0.008	ccd	347	28cm+G2
V0518	Cas	p	57001.295	0.010	+0.001	I	58	Tarot Nord
V0518	Cas	p	57001.296	0.008	+0.002	V	62	Tarot Nord
V0518	Cas	s	57004.479	0.020	+0.029	I	62	Tarot Nord
V0518	Cas	s	57004.480	0.020	+0.030	V	71	Tarot Nord
V0766	Cas	p	56962.550	0.005	+0.003	ccd	101	50mm+ST7
GSC 04281-00972	Cas	p	56055.616	0.009	+0.001	I	186	Tarot Nord
GSC 04281-00972	Cas	s	56056.594	0.007	-0.004	V	200	Tarot Nord
V0757	Cen	s	57138.551	0.011	+0.002	ccd	400	35mm+G1-2000
U	Cep	p	56857.446	0.008	-0.000	ccd	90	50mm+ST7
RS	Cep	p	56921.637	0.010	-0.004	I	167	Tarot Nord
RS	Cep	p	56921.641	0.010	-0.000	V	157	Tarot Nord
RZ	Cep	R	57197.527	0.010	+0.121	ccd	130	50mm+ST7
XZ	Cep	p	56856.497	0.007	+0.001	ccd	109	50mm+ST7
BB	Cep	p	57030.644	0.040	+0.012	V	265	Tarot Nord
BB	Cep	p	57030.651	0.040	+0.019	I	265	Tarot Nord
EI	Cep	s	56817.508	0.010	+0.002	ccd	264	50mm+ST7
EI	Cep	p	56855.485	0.010	+0.002	ccd	396	10cm+G2
EK	Cep	p	56926.439	0.004	-0.000	ccd	127	50mm+ST7
EX	Cep	p	57024.573	0.010	-0.010	V	50	Tarot Nord
EX	Cep	p	57024.575	0.010	-0.008	I	53	Tarot Nord
KL	Cep	p	57029.610	0.100	-3.490	V	52	Tarot Nord
KL	Cep	p	57030.310	0.100	-2.790	I	84	Tarot Nord
NN	Cep	p	56933.400	0.015	+0.003	ccd	108	50mm+ST7
V0441	Cep	p	56782.463	0.009	-0.006	ccd	123	50mm+ST7
V0443	Cep	p	56844.525	0.007	-0.000	ccd	191	50mm+ST7
V0698	Cep	p	57013.459	0.008	-0.008	I	76	Tarot Nord
V0698	Cep	p	57013.460	0.010	-0.007	V	59	Tarot Nord
V0698	Cep	s	57016.270	0.010	-0.506	I	55	Tarot Nord
V0698	Cep	s	57016.275	0.005	-0.501	V	38	Tarot Nord
UX	Com	p	57119.436	0.010	-0.001	ccd	109	50mm+ST7
LR	Com	p	57021.692	0.009	+0.006	ccd	48	50mm+ST7
RT	CrB	p	57072.590	0.010	-0.001	ccd	87	50mm+ST7

GSC 02040-01409	CrB	p	56758.587	0.010	-0.099	ccd	169	28cm+G2
RS	Crv	R	54569.282	0.040	-0.212	ccd	0	Catalina
RV	Crv	p	57076.530	0.005	-0.006	ccd	60	50mm+ST7
BH	Dra	p	56787.453	0.004	-0.002	ccd	112	50mm+ST7 Fo
BH	Dra	p	56787.455	0.005	-0.000	ccd	113	50mm+ST7 Ca
BS	Dra	s	57149.492	0.005	-0.002	ccd	149	50mm+ST7
GQ	Dra	p	56771.546	0.008	+0.001	ccd	294	60mm+G1
GSC 04391-00491	Dra	p	57084.518	0.005	-0.009	ccd	98	50mm+ST7
RT	Equ	R	56855.600	0.002	-0.003	ccd	290	28cm+G2
SV	Eri	R	56960.537	0.010	+0.001	ccd	70	50mm+ST7
BZ	Eri	p	57055.384	0.004	+0.000	ccd	58	50mm+ST7
RX	Her	s	56792.506	0.005	-0.001	ccd	105	50mm+G1
TT	Her	p	56774.488	0.007	+0.002	ccd	66	60mm+G1
UX	Her	p	56793.448	0.008	+0.004	ccd	84	50mm+ST7
V0732	Her	R	54627.376	0.010	-0.083	ccd	0	Catalina
V0732	Her	p	54778.078	0.010	+0.079	ccd	0	Catalina
GSC 01522-00819	Her	p	55004.360	0.010	0	ccd	0	Catalina
FG	Hya	p	57048.333	0.005	+0.003	ccd	46	50mm+ST7
FG	Hya	s	57048.495	0.004	+0.001	ccd	50	50mm+ST7
LO	Hya	p	57010.450	0.009	-0.906	ccd	328	50mm+ST7
UV	Leo	s	57022.692	0.002	+0.000	ccd	55	50mm+ST7
UZ	Leo	s	57022.709	0.008	+0.002	ccd	55	50mm+ST7
XY	Leo	p	57024.729	0.003	+0.016	ccd	43	50mm+ST7
XZ	Leo	p	57024.680	0.005	+0.004	ccd	58	50mm+ST7
FK	Leo	p	56766.461	0.006	-0.027	ccd	58	50mm+G1
GSC 01437-00805	Leo	p	57109.348	0.007	+0.000	ccd	84	50mm+ST7
EH	Lib	R	57177.397	0.003	+0.005	ccd	107	50mm+ST7
IL	Lib	p	57184.447	0.010	+0.000	ccd	136	50mm+ST7
FY	Mon	p	56248.650	0.020	-1.410	VI	0	Tarot Nord
V2288	Oph	p	56891.294	0.030	-0.011	V	37	Tarot Nord
V2288	Oph	p	56891.314	0.020	+0.009	I	43	Tarot Nord
V2288	Oph	s	56896.639	0.020	-0.016	V	59	Tarot Nord
V2288	Oph	s	56896.649	0.020	-0.006	I	44	Tarot Nord
V2388	Oph	p	57154.508	0.010	-0.006	ccd	226	50mm+ST7
Z	Ori	p	57024.414	0.010	+0.005	ccd	177	50mm+ST7
FO	Ori	p	57013.355	0.005	-0.009	ccd	551	28cm+G2
OS	Ori	p	57027.475	0.002	+0.004	ccd	157	28cm+G2
V1028	Ori	p	57046.395	0.060	+0.002	ccd	397	50mm+ST7
V1383	Ori	p	53651.850	0.010	-0.002	V	0	Asas
V1383	Ori	p	57041.325	0.010	+0.005	ccd	127	50mm+ST7
V1385	Ori	p	57072.391	0.009	+0.006	ccd	196	50mm+ST7
V1388	Ori	s	57021.492	0.008	-0.003	ccd	201	50mm+ST7
V1388	Ori	s	57032.439	0.008	+0.008	ccd	114	50mm+ST7
V1388	Ori	p	57033.522	0.005	-0.002	ccd	151	50mm+ST7
GSC 00735-02898	Ori	R	57034.411	0.005	-0.001	ccd	35	50mm+ST7
GSC 00735-02898	Ori	R	57037.401	0.003	+0.002	ccd	35	50mm+ST7
GSC 00735-02898	Ori	R	57037.498	0.003	+0.002	ccd	42	50mm+ST7
GSC 00735-02898	Ori	R	57046.360	0.003	-0.002	ccd	44	50mm+ST7
GSC 00735-02898	Ori	R	57046.458	0.003	-0.000	ccd	45	50mm+ST7
GSC 00735-02898	Ori	R	57046.557	0.003	+0.003	ccd	39	50mm+ST7
GSC 00735-02898	Ori	R	57079.321	0.005	+0.001	ccd	44	50mm+ST7
GSC 00735-02898	Ori	R	57079.415	0.005	-0.002	ccd	44	50mm+ST7
eta	Ori	p	57030.303	0.030	-0.086	ccd	615	50mm+ST7

eta	Ori	s	57050.302	0.030	-0.061	ccd	553	50mm+ST7
GSC 02750-00854	Peg	p	56856.556	0.008	-0.005	ccd	0	10cm+G2
RW	Per	p	57027.451	0.020	+0.005	ccd	179	50mm+ST7
CM	Per	p	57028.415	0.080	+0.008	I	156	Tarot Nord
CM	Per	p	57028.486	0.040	+0.079	V	172	Tarot Nord
CR	Per	p	53667.449	0.008	-0.004	V	150	SWASP
CR	Per	s	53670.586	0.010	-0.009	V	133	SWASP
CR	Per	p	56310.363	0.010	+0.000	V	42	Tarot Nord
CR	Per	p	56310.363	0.010	+0.000	I	24	Tarot Nord
CR	Per	s	56313.502	0.015	-0.003	V	34	Tarot Nord
CR	Per	s	56313.509	0.015	+0.004	I	30	Tarot Nord
CS	Per	p	56088.309	0.010	-0.004	V	83	Tarot Nord
CS	Per	p	56088.316	0.010	+0.003	I	83	Tarot Nord
DG	Per	p	57033.740	0.040	-0.009	V	45	Tarot Nord
DG	Per	p	57033.750	0.040	+0.001	I	47	Tarot Nord
EN	Per	p	57003.486	0.020	-0.009	I	109	Tarot Nord
EN	Per	p	57003.495	0.020	+0.000	V	109	Tarot Nord
HU	Per	p	57011.545	0.030	+0.062	V	47	Tarot Nord
HU	Per	p	57011.550	0.030	+0.067	I	47	Tarot Nord
GSC 03695-01845	Per	p	57032.271	0.020	+0.041	I	51	Tarot Nord
GSC 03695-01845	Per	p	57032.275	0.020	+0.045	V	51	Tarot Nord
GSC 03695-01845	Per	s	57033.906	0.020	-0.027	V	51	Tarot Nord
GSC 03695-01845	Per	s	57033.913	0.010	-0.020	I	51	Tarot Nord
SX	Psc	p	56958.334	0.003	0.000	ccd	355	25cm+G2
GW	Psc	p	57027.328	0.003	0.000	ccd	165	28cm+ST7
HL	Psc	p	53235.611	0.010	0.003	V	0	SWASP
HL	Psc	s	56948.469	0.010	+0.000	ccd	425	28cm+G2
HT	Psc	R	56958.589	0.010	+0.008	ccd	204	28cm+G2
TY	Pup	s	57028.518	0.008	-0.001	ccd	128	50mm+ST7
AV	Pup	p	57034.543	0.005	+0.004	ccd	80	50mm+ST7
PV	Pup	s	57012.502	0.010	-0.048	ccd	165	50mm+ST7
GSC 01606-01750	Sge	s	56884.439	0.006	+0.039	ccd	106	50mm+ST7
V2349	Sgr	p	52105.635	0.010	+0.022	V	0	Asas
V2349	Sgr	s	54312.628	0.010	-0.001	V	0	Asas
V2349	Sgr	p	54593.863	0.010	+0.031	V	0	Asas
VY	Ser	R	57153.445	0.010	+0.019	ccd	90	50mm+G1
CX	Ser	s	57153.471	0.005	+0.006	ccd	180	28cm+G2
V0434	Ser	s	57153.486	0.010	-0.006	ccd	172	28cm+G2
GSC 00459-00892	Ser	p	54594.805	0.010	0	V	0	Asas
VY	Sex	p	57013.606	0.006	-0.001	ccd	165	50mm+ST7
GSC 04896-01029	Sex	p	57114.348	0.007	+0.003	ccd	39	50mm+ST7
TX	UMa	p	57064.448	0.002	+0.001	ccd	297	50mm+ST7
TX	UMa	p	57073.634	0.002	-0.003	ccd	225	50mm+ST7
ZZ	UMa	p	57118.470	0.004	+0.000	ccd	52	50mm+ST7
GZ	UMa	p	57025.923	0.005	+0.002	V	47	Tarot Nord
GZ	UMa	p	57025.923	0.007	+0.002	I	49	Tarot Nord
GZ	UMa	s	57029.191	0.006	-0.001	I	46	Tarot Nord
GZ	UMa	s	57029.195	0.006	+0.003	V	49	Tarot Nord
II	UMa	p	56761.397	0.010	-0.003	ccd	114	50mm+ST7
II	UMa	s	56768.415	0.010	+0.001	ccd	178	60mm+G1
IO	UMa	p	56769.485	0.015	+0.012	ccd	283	60mm+G1
GSC 04386-00604	UMa	p	57088.577	0.030	-0.228	ccd	230	50mm+ST7
GSC 04386-00604	UMa	p	57093.366	0.010	-0.234	ccd	100	50mm+ST7

GSC 04386-01707	UMa	p	57093.386	0.008	-0.010	ccd	85	50mm+ST5
RS	UMi	p	57001.576	0.010	-0.004	I	217	Tarot
RS	UMi	p	57001.578	0.010	-0.002	V	227	Tarot
TY	UMi	p	57169.518	0.007	+0.005	ccd	74	50mm+ST7
LU	Vir	s	57037.628	0.008	-0.002	ccd	94	50mm+ST7
LU	Vir	p	57050.666	0.007	-0.008	ccd	119	50mm+ST7
NN	Vir	p	57033.669	0.005	+0.005	ccd	108	50mm+ST7
V0467	Vir	p	57037.675	0.005	-0.002	ccd	95	50mm+ST7
V0467	Vir	s	57050.675	0.005	+0.000	ccd	121	50mm+ST7

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