

B.R.N.O. Times of minima

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Abstract

Paper presents observations of eclipsing binaries acquired by the Variable Star Section of Czech Astronomical Society members (B.R.N.O. group). Paper contains 626 minima timings for 272 eclipsing binaries, obtained by 36 observers during 2007 – 2008 period.

We introduce **626 minima timings** (41 visual and 585 CCD-based) of **272 eclipsing binaries** acquired by **36 observers**, members and collaborators of the Variable Star Section of Czech Astronomical Society (“Brno Regional Network of Observers” group; hereafter B.R.N.O.), during 2007 – 2008 period.

Each published observation can be viewed in detail following the active link under HJD number. There are available both light curve and reference CCD frame (finding chart for visual observation). Notes by observers can be found there as well.

This paper contains only new, unpublished observations.

Visual observations have been performed mostly using Nijland - Blazhko method and the minima timings have been determined by tracing paper method.

CCD frames were mostly reduced by C-MuniPack code (Motl, 2007), the well-known adaptation of MuniPack code (Hroch, 1998), based on DaoPhot routines (Stetson, 1987, 1991). All frames were dark-frame and flat-field corrected first before application of further reduction steps. Minima timings were mostly determined by Kwee-van Woerden method using program AVE (Barberá, 1999). The Tintagel, Taranis and SOP neural network based procedures (Gaspari, 1995) were applied in some cases.

The CCD-based minima timings already come with corresponding errors, usually determined by observers themselves. The error values depends on used method, data quality and depth of the observed minima.

The 5th column of the main table contains an independent indicator of the timing determination accuracy – the light curve minimum coverage factor – given in fractional form as a ratio between all acquired data points and data points covering decreasing branch of a minimum.

We would like to point out that the character of a minimum (primary/secondary) depends only on used orbital elements – especially for EW binaries. All orbital elements used for character of minimum determination were taken from the O-C gateway, maintained by Anton Pasche (Paschke, 2007). However, in some cases, especially in case of newly discovered eclipsing binaries, these elements remain unknown.

Explanation to the main table

Column 0 – objects designation. G2779.0288 means GSC 2779-0288. CzeV is acronym for new variables found by Czech astronomers (Brát, 2008).

Column 1 – heliocentric julian date of observed minimum (JDhel – 2 400 000)

Column 2 – error of minimum determination in days

Column 3 – identification of primary (I) or secondary (II) minimum

Column 4 – photometric band of CCD observation or mark “vis” for visual observation

Column 5 – total number of measurements / number of data on decreasing branch of light curve

Column 6 – observer’s identification

Column 7 – equipment used for observation.

Table 1 – Observations of eclipsing binaries

RT And						
54654.43931	0.0040	I	vis	27/17	Wojciech Pluskwa	Somet Binar 25x100
54298.46560	0.0030	I	vis	17/8	Wojciech Pluskwa	Somet Binar 25x100
54298.47600	0.0040	I	vis	16/9	Patryk Derylo	Somet Binar 25x100
XZ And						
54469.28613	0.0002	II	CCD+R	329/213	Hana Kučáková	RL 200/1200
AB And						
54373.41864	0.0002	II	CCD+I	46/24	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54373.41874	0.0002	II	CCD+V	45/22	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54373.41874	0.0002	II	CCD+R	44/22	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
GK And						
54384.50851	0.0008	I	CCD+R	75/54	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54384.50891	0.0005	I	CCD+I	89/55	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
LY And						
54389.33471	0.0014	II	CCD+Clear	70/39	František Lomoz	Newton 254/1016+ST7
QW And						
54749.29915	0.0006	I	CCD+R	111/58	Roman Ehrenberger	RL 96/400 + HX516 + R
QX And						
54406.31845	0.0008	II	CCD+R	112/75	Roman Ehrenberger	RL96/400 + HX516 + R
V 404 And						
54715.33879	0.0004	II	CCD+R	142/69	Roman Ehrenberger	RL 96/400 + HX516 + R
54433.43361	0.0003	II	CCD+R	74/34	Hana Kučáková	RL 200/1200
V 441 And						
54737.49184	0.0002	I	CCD+Clear	329/110	Lubomír Urbančok	Yepun 254/1200
V 449 And						
54384.52536	0.0007	I	CCD+R	51/46	Robert Uhlař	N254/1200
54387.56981	0.0002	I	CCD+R	274/122	Robert Uhlař	N254/1200
OO Aql						
54675.41630	0.0002	I	CCD+V	55/33	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54675.41650	0.0002	I	CCD+R	43/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54675.41650	0.0002	I	CCD+I	50/29	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 724 Aql						
54684.39139	0.0002	I	CCD+R	165/64	Roman Ehrenberger	RL 96/400 + HX516 + R
54705.35609	0.0004	II	CCD+R	143/74	Roman Ehrenberger	RL 96/400 + HX516 + R
V 889 Aql						
54645.47228	0.0004	I	CCD+V	106/41	H. Kučáková & L. Ďurovec	RL 200/1200

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54645.47290	0.0005	I	CCD+R	111/40	H. Kučáková & L. Ďurovec	RL 200/1200
54645.47386	0.0007	I	CCD+I	109/40	H. Kučáková & L. Ďurovec	RL 200/1200
V1426 Aql						
54697.47416	0.0020	I	CCD+V	55/39	Pavel Marek	RL150/750 + G2 (filtr:UBVRI)
54697.47986	0.0006	I	CCD+I	49/38	Pavel Marek	RL150/750 + G2 (filtr:UBVRI)
54697.48086	0.0007	I	CCD+R	53/39	Pavel Marek	RL150/750 + G2 (filtr:UBVRI)
54697.48266	0.0008	I	CCD+B	52/41	Pavel Marek	RL150/750 + G2 (filtr:UBVRI)
G1077.0828 Aql						
54387.32127	0.0002	I	CCD+R	230/87	Roman Ehrenberger	RL96/400 + HX516 + R
SX Aur						
54522.36853	0.0005	I	CCD+I	31/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54522.36923	0.0004	I	CCD+V	33/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54522.36973	0.0003	I	CCD+R	31/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
TT Aur						
54507.31098	0.0003	I	CCD+R	204/99	Roman Ehrenberger	RL96/400 + HX516 + R
CL Aur						
54558.35729	0.0003	I	CCD+R	84/51	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
EM Aur						
54521.29126	0.0004	I	CCD+V	36/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54521.29166	0.0006	I	CCD+R	31/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54521.29166	0.0011	I	CCD+I	34/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54521.29347	0.0002	I	CCD+R	208/77	Roman Ehrenberger	RL96/400 + HX516 + R
HL Aur						
54506.30130	0.0003	I	CCD+R	162/76	Roman Ehrenberger	RL96/400 + HX516 + R
54523.42281	0.0001	II	CCD+Clear	194/127	Lubomír Urbančok	N 152/903
HP Aur						
54500.30126	0.0001	I	CCD+R	89/49	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54500.30136	0.0001	I	CCD+I	80/51	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
IM Aur						
54506.36525	0.0002	I	CCD+R	58/34	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54506.36535	0.0002	I	CCD+V	57/34	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54506.36615	0.0002	I	CCD+I	65/38	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
IU Aur						
54476.33568	0.0004	I	CCD+V	103/56	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54476.33568	0.0005	I	CCD+I	93/47	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54476.33578	0.0005	I	CCD+R	105/54	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54505.31595	0.0007	I	CCD+V	39/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54505.31635	0.0007	I	CCD+R	37/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54505.31835	0.0012	I	CCD+I	40/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.43544	0.0007	I	CCD+R	58/24	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.43544	0.0006	I	CCD+I	58/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.43664	0.0009	I	CCD+V	49/24	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7

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KO Aur						
54508.30767	0.0004	II	CCD+R	98/42	Hana Kučáková	RL 200/1200
54508.30826	0.0005	II	CCD+V	100/44	Hana Kučáková	RL 200/1200
54508.30835	0.0005	II	CCD+I	98/44	Hana Kučáková	RL 200/1200
KU Aur						
54489.34750	0.0002	II	CCD+R	92/51	Radek Kocián	SCT 305/990 + SBIG ST8-XME
V 355 Aur						
54453.58877	0.0010	I	CCD+R	182/88	Luboš Brát	RL200, f/10 + CCD ST8 + R
V 535 Aur						
54750.50811	0.0006	I	CCD+Clear	114/12	Jaroslav Trnka	Newton 200/1000 + CCD ST-9E + clear
TZ Boo						
54508.54746	0.0002	I	CCD+R	94/50	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54584.32291	0.0002	I	CCD+R	40/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54584.32341	0.0002	I	CCD+I	38/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
UW Boo						
54614.45257	0.0010	II	CCD+R	125/57	Radek Dřevěný	RL 200/660 CCD G2-402
VW Boo						
54557.49218	0.0004	II	CCD+R	63/16	Marek Skarka	Newton 0,62 m, ST-8
54581.45466	0.0001	II	CCD+R	55/9	Marek Skarka	Newton 0,62 m, ST-8
54584.36313	0.0001	I	CCD+R	63/25	Marek Skarka	Newton 0,62 m, ST-8
54584.53550	0.0003	II	CCD+R	56/26	Marek Skarka	Newton 0,62 m, ST-8
XY Boo						
54570.49941	0.0002	I	CCD+R	76/63	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54570.49971	0.0003	I	CCD+I	76/64	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54570.50041	0.0006	I	CCD+V	62/49	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
AC Boo						
54669.44521	0.0002	I	CCD+I	28/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54669.44591	0.0005	I	CCD+R	29/20	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
BW Boo						
54597.36864	0.0004	I	CCD+R	106/34	Robert Uhlař	G2/Sonnar34/135
EL Boo						
54508.66496	0.0005	II	CCD+R	97/24	Luboš Brát	RL200, f/10 + CCD ST8 + R
ET Boo						
54615.42739	0.0004	I	CCD+I	25/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54615.42789	0.0002	I	CCD+R	21/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54512.53924	0.0010	II	CCD+V	62/38	Hana Kučáková	RL 200/1200
54512.54224	0.0004	II	CCD+R	62/40	Hana Kučáková	RL 200/1200
54512.54272	0.0013	II	CCD+I	58/38	Hana Kučáková	RL 200/1200
EW Boo						
54570.41354	0.0004	II	CCD+Clear	73/36	Jaroslav Trnka	500/2500, CCD ST-9E

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FP Boo						
54595.55387	0.0004	II	CCD+R	105/64	Radek Dřevěný	RL 2000/660 CCD G2-402
54595.55487	0.0011	II	CCD+V	106/64	Radek Dřevěný	RL 2000/660 CCD G2-402
54595.55537	0.0014	II	CCD+I	105/65	Radek Dřevěný	RL 2000/660 CCD G2-402
GG Boo						
54533.43756	0.0016	II	CCD+Clear	125/66	František Lomoz	254/1016+ST7
54617.54699	0.0005	II	CCD+R	120/94	Radek Dřevěný	RL 200/660 CCD G2-402
GH Boo						
54581.48599	0.0004	I	CCD+R	202/104	Radek Dřevěný	RL 2000/660 CCD G2-402
54581.48609	0.0004	I	CCD+V	204/106	Radek Dřevěný	RL 2000/660 CCD G2-402
GP Boo						
54535.57203	0.0005	I	CCD+I	24/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54535.57313	0.0007	I	CCD+R	22/9	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54599.43795	0.0008	I	CCD+V	20/8	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54599.43835	0.0006	I	CCD+I	21/9	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54599.43925	0.0006	I	CCD+R	21/8	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
HH Boo						
54599.39352	0.0004	I	CCD+R	127/69	Roman Ehrenberger	RL 96/400 + HX516 + R
SV Cam						
53582.46004	0.0050	I	vis	14/9	Juraj Benko	Somet Binar 25x100
53582.46904	0.0060	I	vis	16/9	Slavomír Kačmár	Somet Binar 25x100
54149.44613	0.0030	I	vis	17/8	Michal Mráz	Somet Binar 25x100
54149.45863	0.0040	I	vis	17/10	Pavol Onderčín	Somet Binar 25x100
54149.45173	0.0040	I	vis	17/9	Matúš Rebič	Somet Binar 25x100
WW Cam						
54513.27745	0.0005	II	CCD+R	196/93	Stanislav Poddaný	Meade LX 200 Schmidt-Cassegrain 16, SBIG ST10XME
AS Cam						
54391.54986	0.0003	I	CCD+R	154/101	Hana Kučáková	RL 200/1200
AY Cam						
54508.50506	0.0006	II	CCD+R	165/34	Hana Kučáková	RL 200/1200
54508.50623	0.0005	II	CCD+I	171/37	Hana Kučáková	RL 200/1200
54508.50878	0.0007	II	CCD+V	171/39	Hana Kučáková	RL 200/1200
RZ Cas						
54673.53907	0.0007	I	CCD+R	130/77	Robert Uhlař	G2/Sonnar34/135
TV Cas						
54508.26718	0.0002	I	CCD+R	92/36	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
YZ Cas						
54509.29691	0.0003	I	CCD+R	126/59	Petr Svoboda	RF 34/135 mm+ST-7XME+BARI (Bessell 1990)
AH Cas						
54745.42885	0.0001	I	CCD+Clear	170/112	Lubomír Urbančok	Yepun 254/1200

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BS Cas						
54683.45839	0.0002	II	CCD+R	104/78	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54697.55289	0.0001	II	CCD+R	137/49	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54424.46207	0.0002	II	CCD+R	66/39	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54424.46217	0.0002	II	CCD+I	57/36	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.44418	0.0002	I	CCD+I	109/36	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54389.44449	0.0002	I	CCD+R	114/35	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54389.44451	0.0002	I	CCD+V	105/31	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
BZ Cas						
54536.31444	0.0004	I	CCD+R	41/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54536.31514	0.0002	I	CCD+I	39/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
IV Cas						
54389.53208	0.0001	I	CCD+R	162/117	Radek Kocián	SCT Meade 305/1920 + SBIG ST8-XME
LR Cas						
54453.25968	0.0004	I	CCD+R	210/101	Luboš Brát	RL200, f/10 + CCD ST8 + R
MM Cas						
54426.54178	0.0004	II	CCD+R	67/35	Hana Kučáková	RL 200/1200
NT Cas						
54750.39317	0.0005	I	CCD+Clear	98/36	Jaroslav Trnka	Newton 200/1000 + CCD ST-9E + clear
OX Cas						
54683.50761	0.0040	II	CCD+B	17/4	Pavel Marek	RL150/750 + G2 (filtr:B)
54683.51181	0.0028	II	CCD+I	16/4	Pavel Marek	RL150/750 + G2 (filtr:I)
54683.51541	0.0005	II	CCD+R	43/26	Luboš Brát	RL200, f/6 + CCD ST8 + R
54683.51751	0.0016	II	CCD+V	19/6	Pavel Marek	RL150/750 + G2 (filtr:V)
54683.52091	0.0170	II	CCD+R	20/7	Pavel Marek	RL150/750 + G2 (filtr:R)
QQ Cas						
54720.47357	0.0001	I	CCD+R	205/128	Hana Kučáková	RL 200/1200
V 381 Cas						
54469.36369	0.0006	II	CCD+I	67/47	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54469.36429	0.0003	II	CCD+R	67/48	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54497.29816	0.0003	II	CCD+R	32/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54497.29956	0.0004	II	CCD+I	31/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 389 Cas						
54706.44617	0.0010	II	CCD+R	97/45	Hana Kučáková	RL 200/1200
54706.44747	0.0013	II	CCD+I	103/46	Hana Kučáková	RL 200/1200
54706.44761	0.0017	II	CCD+V	103/46	Hana Kučáková	RL 200/1200
V 445 Cas						
54456.31399	0.0005	I	CCD+R	60/33	Hana Kučáková	RL 200/1200
V 559 Cas						
54508.42275	0.0004	I	CCD+V	76/38	Hana Kučáková	RL 200/1200
54508.42305	0.0004	I	CCD+I	76/39	Hana Kučáková	RL 200/1200
54508.42356	0.0005	I	CCD+R	76/36	Hana Kučáková	RL 200/1200

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V 654 Cas						
54712.44662	0.0002	I	CCD+R	66/23	Hana Kučáková	RL 200/1200
54712.44666	0.0003	I	CCD+I	64/23	Hana Kučáková	RL 200/1200
54712.44703	0.0003	I	CCD+V	60/23	Hana Kučáková	RL 200/1200
V 785 Cas						
54627.54297	0.0003	I	CCD+I	119/86	Hana Kučáková	RL 200/1200
54507.43812	0.0002	II	CCD+R	116/83	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54507.43946	0.0002	II	CCD+I	128/74	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54507.44229	0.0004	II	CCD+V	175/107	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
V 821 Cas						
54080.47105	0.0008	I	CCD+V	38/27	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54080.47155	0.0005	I	CCD+R	39/25	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54080.47165	0.0006	I	CCD+B	37/23	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
V 959 Cas						
54432.27567	0.0001	I	CCD+R	230/140	Stanislav Poddaný	Meade LX 200 Schmidt-Cassegrain 16 + SBIG ST10XME
CzeV131 Cas						
54507.45762	0.0002	I	CCD+I	153/104	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54507.45912	0.0002	I	CCD+R	155/109	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
CzeV135 Cas						
54676.47862	0.0006	I	CCD+I	50/22	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54676.47889	0.0003	I	CCD+V	51/23	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54676.47928	0.0008	I	CCD+R	49/22	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54683.42673	0.0005	II	CCD+R	104/37	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54697.56348	0.0002	I	CCD+R	143/66	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54705.53438	0.0004	II	CCD+R	144/64	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54335.50288	0.0002	I	CCD+R	87/51	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54368.41795	0.0001	I	CCD+R	106/33	Radek Kocián	SCT 305/1920 + SBIG ST8-XME
54389.50322	0.0002	I	CCD+R	116/57	Radek Kocián	SCT 305/1920 + SBIG ST8-XME
54500.33201	0.0002	II	CCD+R	95/44	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54623.50810	0.0002	I	CCD+R	104/57	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
AH Cep						
54709.45956	0.0007	II	CCD+I	184/76	Radek Dřevěný	Sonnar 180/4+ CCD G2-402
54709.46156	0.0002	II	CCD+R	203/88	Radek Dřevěný	Sonnar 180/4 CCD G2-402
BE Cep						
54521.59546	0.0011	II	CCD+Clear	119/104	Lubomír Urbančok	N 152/903
CW Cep						
54020.28483	0.0005	II	CCD+R	62/24	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
DV Cep						
54456.20174	0.0007	II	CCD+R	73/24	Hana Kučáková	RL 200/1200
EG Cep						
54300.50553	0.0040	I	vis	10/5	Pavol A. Dubovsky	Somet Binar 25x100
54300.49923	0.0040	I	vis	19/12	Michal Mráz	Somet Binar 25x100

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54577.44920	0.0002	II	CCD+Clear	299/143	Lubomír Urbančok	Yepun 254/1200
EO Cep						
54568.54657	0.0020	I	CCD+I	40/25	Hana Kučáková	RL 200/1200
54568.54688	0.0011	I	CCD+R	44/27	Hana Kučáková	RL 200/1200
54568.54747	0.0011	I	CCD+V	46/28	Hana Kučáková	RL 200/1200
54569.45287	0.0040	II	CCD+V	49/11	Hana Kučáková	RL 200/1200
54569.46303	0.0016	II	CCD+I	48/12	Hana Kučáková	RL 200/1200
54569.46707	0.0020	II	CCD+R	45/13	Hana Kučáková	RL 200/1200
GK Cep						
54682.52394	0.0003	I	CCD+I	64/38	Radek Dřevěný	Sonnae 180/4,0 CCD G2-402
GS Cep						
54374.48572	0.0002	II	CCD+R	260/90	Luboš Brát	RL200, f/10 + CCD ST8 + R
GW Cep						
54521.50930	0.0001	II	CCD+Clear	243/163	Lubomír Urbančok	N 152/903
NS Cep						
54685.39687	0.0008	I	CCD+R	65/30	Roman Ehrenberger	RL 96/400 + HX516 + R
V 443 Cep						
54368.47094	0.0007	I	CCD+I	268/132	Radek Dřevěný	Sonnar 180/2,8 + CCD G2/402, obor I
CzeV153 Cep						
54585.48039	0.0004	I	CCD+R	91/9	Luboš Brát	RL200, f/10 + CCD ST8 + R
54001.50621	0.0005	I	CCD+R	247/90	Radek Dřevěný	Vixen 80/900 ST-7, filtr R
G4487.0347 Cep						
54710.49246	0.0002	I	CCD+R	82/37	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54741.46569	0.0005	II	CCD+R	59/24	Hana Kučáková	RL 200/1200
SS Cet						
54433.48548	0.0004	I	CCD+R	76/52	Robert Uhlař	N254/1200
TV Cet						
54489.33098	0.0004	II	CCD+R	92/53	Hana Kučáková	RL 200/1200
AV CMi						
54491.44502	0.0005	II	CCD+I	60/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54491.44642	0.0006	II	CCD+R	57/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54508.38151	0.0002	I	CCD+R	77/44	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.33492	0.0013	II	CCD+I	26/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.33502	0.0011	II	CCD+R	23/15	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54523.33532	0.0008	II	CCD+V	26/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
BF CMi						
54500.45301	0.0010	I	CCD+R	38/24	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54506.34971	0.0008	I	CCD+I	54/21	Robert Uhlař	N254/1200
BX CMi						
54531.27080	0.0006	I	CCD+R	156/24	Roman Ehrenberger	RL96/400 + HX516 + R

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WW Cnc 54460.61046	0.0010	II	CCD+R	189/48	Luboš Brát	RL200, f/10 + CCD ST8 + R
WX Cnc 54532.32003 54584.36436	0.0002 0.0003	II I	CCD+R CCD+R	168/99 151/65	Roman Ehrenberger Roman Ehrenberger	RL96/400 + HX516 + R RL 96/400 + HX516 + R
AC Cnc 54507.44386	0.0014	I	CCD+Clear	257/158	František Lomoz	254/1016+ST7
EH Cnc 54499.52050 54499.52080 54507.46424	0.0001 0.0001 0.0002	II II II	CCD+R CCD+I CCD+R	53/19 45/19 73/56	Ladislav Šmelcer Ladislav Šmelcer Ladislav Šmelcer	Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7
GW Cnc 54523.49515	0.0004	I	CCD+Clear	195/99	Lubomír Urbančok	N 152/903
GY Cnc 54500.48646	0.0001	I	CCD+R	198/114	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
LT Com 54581.39733	0.0002	II	CCD+R	139/86	Roman Ehrenberger	RL96/400 + HX516 + R
TW CrB 54556.45297 54556.45307 54556.45337	0.0002 0.0002 0.0002	I I I	CCD+V CCD+I CCD+R	40/21 42/23 47/28	Ladislav Šmelcer Ladislav Šmelcer Ladislav Šmelcer	Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7
VZ CVn 54555.41821	0.0003	I	CCD+R	124/58	Roman Ehrenberger	RF34/135 + HX516 + R
BO CVn 54554.40389	0.0002	II	CCD+R	158/92	Roman Ehrenberger	RL96/400 + HX516 + R
DK CVn 54531.45349 54531.45527 54531.45567	0.0015 0.0011 0.0002	II II II	CCD+V CCD+I CCD+R	25/10 25/10 25/11	Hana Kučáková Hana Kučáková Hana Kučáková	RL 200/1200 RL 200/1200 RL 200/1200
DL CVn 54601.42070	0.0001	II	CCD+R	130/63	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
WZ Cyg 54433.36266	0.0003	II	CCD+R	97/47	Hana Kučáková	RL 200/1200
ZZ Cyg 54700.48412 54700.48452 54700.48452	0.0003 0.0003 0.0003	I I I	CCD+V CCD+R CCD+I	16/5 17/5 20/6	Ladislav Šmelcer Ladislav Šmelcer Ladislav Šmelcer	Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7 Celestron 280/1765 + CCD ST7

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BO Cyg						
54683.51752	0.0004	I	CCD+Clear	124/96	Jaroslav Trnka	Newton 200/1000, CCD ST-9E
BR Cyg						
54698.53728	0.0005	I	CCD+B	47/35	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54698.53748	0.0007	I	CCD+V	47/33	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54698.53808	0.0007	I	CCD+R	45/33	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54712.51733	0.0013	II	CCD+B	42/30	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54712.52593	0.0012	II	CCD+V	42/30	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54712.52643	0.0022	II	CCD+R	50/33	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
DK Cyg						
54697.41226	0.0003	I	CCD+I	43/20	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54697.41286	0.0002	I	CCD+V	46/22	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54697.41286	0.0004	I	CCD+R	47/20	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
MY Cyg						
54594.47660	0.0004	I	CCD+R	61/23	Hana Kučáková	RL 200/1200
54594.47762	0.0006	I	CCD+V	70/28	Hana Kučáková	RL 200/1200
54594.47773	0.0014	I	CCD+I	64/27	Hana Kučáková	RL 200/1200
V 388 Cyg						
54685.49819		II	vis	14/10	Petr Sobotka	RF 70/320 25x
V 401 Cyg						
54375.30689	0.0003	II	CCD+R	56/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54375.30749	0.0003	II	CCD+I	55/27	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54612.47365	0.0009	II	CCD+I	31/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54612.47415	0.0003	II	CCD+R	29/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54612.47555	0.0004	II	CCD+V	29/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 498 Cyg						
54426.24163	0.0009	I	CCD+R	35/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54614.41968	0.0009	I	CCD+I	55/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54614.42008	0.0009	I	CCD+V	47/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54614.42318	0.0012	I	CCD+R	56/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54384.42216	0.0018	I	CCD+R	56/38	Hana Kučáková	RL 200/1200
54384.42593	0.0023	I	CCD+V	39/22	Hana Kučáková	RL 200/1200
54384.42628	0.0008	I	CCD+B	48/33	Hana Kučáková	RL 200/1200
54384.42641	0.0041	I	CCD+I	57/40	Hana Kučáková	RL 200/1200
V 505 Cyg						
54611.40905	0.0005	II	CCD+R	43/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54611.40905	0.0012	II	CCD+I	39/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54611.40935	0.0005	II	CCD+V	43/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 541 Cyg						
54659.46742	0.0002	II	CCD+R	22/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54659.46762	0.0002	II	CCD+I	25/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 548 Cyg						
54690.38003	0.0004	I	CCD+R	40/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54690.38013	0.0004	I	CCD+I	43/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7

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54690.38083	0.0003	I	CCD+V	47/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54385.29161	0.0003	I	CCD+R	84/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54385.29291	0.0003	I	CCD+I	84/27	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54385.29106	0.0004	I	CCD+R	151/85	Roman Ehrenberger	RL96/400 + HX516 + R
V 700 Cyg						
54597.49943	0.0004	I	CCD+R	25/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54597.49969	0.0005	I	CCD+V	26/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54597.49989	0.0003	I	CCD+I	29/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54405.39599	0.0001	I	CCD+R	432/295	Stanislav Poddaný	Meade LX 200 40.6 cm + SBIG ST10XME
54650.40199	0.0013	I	CCD+Clear	118/66	Lubomír Urbančok	Yepun 254/1200
V 796 Cyg						
54709.46867	0.0011	II	CCD+B	44/26	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54709.46977	0.0016	II	CCD+R	39/23	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54709.47157	0.0007	II	CCD+V	33/19	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54712.43103	0.0013	II	CCD+B	42/22	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54712.43283	0.0008	II	CCD+V	37/20	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
54712.43443	0.0012	II	CCD+R	42/20	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)
V 828 Cyg						
54390.31152	0.0006	I	CCD+R	85/42	Luboš Brát	RL200, f/10 + CCD ST8 + R
V 836 Cyg						
53582.43250	0.0070	I	vis	14/7	Juraj Benko	Somet Binar 25x100
53582.44770	0.0060	I	vis	18/11	Slavomír Kačmár	Somet Binar 25x100
53582.45120	0.0050	I	vis	12/8	Lubomír Marcin	Somet Binar 25x100
54685.40559		I	vis	13/6	Petr Sobotka	RF 70/320 25x
54700.42910	0.0002	I	CCD+V	46/31	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54700.42920	0.0002	I	CCD+R	49/33	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54700.42920	0.0002	I	CCD+I	51/36	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54406.39222	0.0002	I	CCD+I	92/48	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54406.39332	0.0002	I	CCD+R	86/42	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 859 Cyg						
54637.50029	0.0004	II	CCD+Clear	187/156	Lubomír Urbančok	Yepun 254/1200
54649.44702	0.0006	I	CCD+Clear	247/83	Lubomír Urbančok	Yepun 254/1200
V 889 Cyg						
54318.41061	0.0014	I	CCD+Clear	93/54	František Lomoz	AeroXenar 90/320+ST5
V 974 Cyg						
54377.27419	0.0003	I	CCD+R	48/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54377.27459	0.0004	I	CCD+I	46/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 995 Cyg						
54678.43837	0.0003	I	CCD+R	149/89	Stanislav Poddaný	Meade LX 200 Schmidt-Cassegrain 16, SBIG ST10XME
54678.43953	0.0002	I	CCD+V	155/89	Stanislav Poddaný	Meade LX 200 Schmidt-Cassegrain 16, SBIG ST10XME
V1073 Cyg						
54617.55331	0.0009	I	CCD+R	46/33	Robert Uhlař	G2/Sonnar34/135
V1083 Cyg						

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54390.26604	0.0005	I	CCD+R	80/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54390.26744	0.0004	I	CCD+I	79/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V1171 Cyg						
54684.44867	0.0008	I	CCD+V	45/18	Pavel Marek	RL150/750 + G2 (filtr:V)
54684.45197	0.0004	I	CCD+I	45/19	Pavel Marek	RL150/750 + G2 (filtr:I)
54684.45200	0.0005	I	CCD+R	45/19	Pavel Marek	RL150 + G2 (filtr R)
54684.45227	0.0005	I	CCD+B	41/16	Pavel Marek	RL150/750 + G2 (filtr:B)
V1356 Cyg						
54698.45152	0.0006	I	CCD+R	84/47	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54698.45172	0.0005	I	CCD+V	81/49	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54698.45252	0.0008	I	CCD+I	83/50	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V1508 Cyg						
54676.49247	0.0014	II	CCD+Clear	293/174	František Lomoz	AeroXenar 90/320+ST2000XM
54676.49597	0.0140	II	CCD+Clear	194/114	František Lomoz	Zeiss 130/360+ST7
54678.48548	0.0014	II	CCD+V	270/129	František Lomoz	AeroXenar 90/320+ST2000XM
54678.48758	0.0140	II	CCD+Clear	172/85	František Lomoz	Zeiss 130/360+ST7
V1898 Cyg						
54691.40704	0.0006	I	CCD+I	63/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54691.40894	0.0005	I	CCD+R	73/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54691.40974	0.0004	I	CCD+V	67/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54443.25588	0.0005	I	CCD+R	31/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54443.25648	0.0009	I	CCD+V	30/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V1918 Cyg						
54675.43773	0.0004	II	CCD+R	128/68	Roman Ehrenberger	RL 96/400 + HX516 + R
54710.34872	0.0002	I	CCD+R	133/55	Roman Ehrenberger	RL 96/400 + HX516 + R
54624.40788	0.0003	I	CCD+R	122/52	Roman Ehrenberger	RL 96/400 + HX516 + R
V2021 Cyg						
54391.44610	0.0001	I	CCD+R	112/53	Hana Kučáková	RL 200/1200
G2685.1186 Cyg						
54646.45056	0.0003	I	CCD+R	103/44	Roman Ehrenberger	RL 96/400 + HX516 + R
G2685.1453 Cyg						
54646.46076	0.0006	I	CCD+R	114/60	Roman Ehrenberger	RL 96/400 + HX516 + R
TY Del						
54406.22647	0.0003	I	CCD+I	210/19	Robert Uhlař	N254/1200
54406.22663	0.0002	I	CCD+R	218/23	Robert Uhlař	N254/1200
54406.22668	0.0001	I	CCD+V	217/24	Robert Uhlař	N254/1200
AL Del						
54388.29617	0.0014	I	CCD+R	61/33	Roman Ehrenberger	RL96/400 + HX516 + R
BH Del						
54677.39056	0.0003	I	CCD+Clear	61/37	Lubomír Urbančok	Yepun 254/1200
EX Del						

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54676.47331	0.0002	II	CCD+Clear	98/61	Lubomír Urbančok	Yepun 254/1200
54677.46694	0.0002	II	CCD+Clear	85/36	Lubomír Urbančok	Yepun 254/1200
54738.36718	0.0004	I	CCD+Clear	198/119	Lubomír Urbančok	Yepun 254/1200
FI Del						
54736.32805	0.0006	I	CCD+Clear	164/53	Jaroslav Trnka	Newton 200/1000 + CCD ST-9E + clear
RZ Dra						
53585.42787	0.0050	I	vis	13/4	Lubomir Marcin	Lichtencknecker 150/2250 mm
53585.42857	0.0030	I	vis	18/8	Juraj Benko	Lichtencknecker
53585.43477	0.0100	I	vis	13/6	Maros Rusnak	Lichtencknecker 150/2250 mm
53585.43757	0.0040	I	vis	21/10	Tomas Gerboc	Lichtencknecker 150/2250 mm
54300.45291	0.0040	I	vis	25/13	Wojciech Pluskwa	Somet Binar 25x100
54300.45501	0.0040	I	vis	19/11	Patryk Derylo	Somet Binar 25x100
54300.46611	0.0020	I	vis	21/10	Justyna Zuzia	Somet Binar 25x100
54300.45431	0.0050	I	vis	17/7	Bartłomiej Debski	Somet Binar 25x100
54523.56212	0.0001	I	CCD+Clear	181/94	Lubomír Urbančok	N 152/903
TW Dra						
54569.38167	0.0002	I	CCD+R	143/95	Roman Ehrenberger	RL96/400 + HX516 + R
AX Dra						
54653.40904	0.0003	II	CCD+R	100/44	Roman Ehrenberger	RL 96/400 + HX516 + R
BE Dra						
54627.42409	0.0003	II	CCD+R	125/68	Roman Ehrenberger	RL 96/400 + HX516 + R
BH Dra						
54659.47884	0.0040	I	vis	26/15	Michal Grzyb	Somet Binar 25x100
54659.48024	0.0030	I	vis	23/15	Wojciech Pluskwa	Somet Binar 25x100
54659.48714	0.0040	I	vis	16/9	Jacek Furdak	Somet Binar 25x100
BV Dra						
54558.35612	0.0001	I	CCD+R	354/213	Jiří Kohoutek	Newton 200/1200 + SBIG ST8-XME
BW Dra						
54558.32937	0.0001	I	CCD+R	354/86	Jiří Kohoutek	Newton 200/1200 + SBIG ST8-XME
FU Dra						
54513.45836	0.0002	I	CCD+R	172/77	Roman Ehrenberger	RL96/400 + HX516 + R
54533.39224	0.0004	I	CCD+R	176/74	Roman Ehrenberger	RL96/400 + HX516 + R
54583.38767	0.0002	I	CCD+R	164/78	Roman Ehrenberger	RL96/400 + HX516 + R
54628.47501	0.0001	I	CCD+R	214/109	R. Kocián & L. Ďurovec	Newton 200/1200 + SBIG ST8-XME
HZ Dra						
54512.64396	0.0004	I	CCD+R	39/15	Petr Svoboda	RF 34/135 mm+ST-7XME+BARI (Bessell 1990)
LN Dra						
54745.26422	0.0006	I	CCD+R	90/23	Roman Ehrenberger	RL 96/400 + HX516 + R
SX Gem						
54474.33207		I	vis	17/10	Václav Novotný	Newton 200/1220

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WW Gem						
54557.29773	0.0007	II	CCD+I	32/15	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54557.29913	0.0011	II	CCD+V	34/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54557.30053	0.0004	II	CCD+R	29/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CU Gem						
54736.54364	0.0004	I	CCD+Clear	148/63	Jaroslav Trnka	Newton 200/1000 + CCD ST-9E + clear
FG Gem						
54745.51294	0.0005	I	CCD+Clear	310/127	Lubomír Urbančok	Yepun 254/1200
54556.29689	0.0011	I	CCD+R	16/7	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54556.29769	0.0006	I	CCD+V	22/8	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54556.29829	0.0008	I	CCD+I	22/6	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
GW Gem						
54536.50655	0.0001	I	CCD+V	32/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54536.50675	0.0002	I	CCD+R	35/27	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54536.50745	0.0003	I	CCD+I	34/27	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54580.35636	0.0009	II	CCD+V	20/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54580.35896	0.0007	II	CCD+R	18/8	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54580.35906	0.0008	II	CCD+I	24/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54552.33382	0.0002	I	CCD+R	156/75	Roman Ehrenberger	RL96/400 + HX516 + R
HY Gem						
54491.32525	0.0014	II	CCD+Clear	207/36	František Lomoz	254/1016+ST7
54491.49955	0.0014	I	CCD+Clear	207/196	František Lomoz	254/1016+ST7
54499.39787	0.0014	II	CCD+Clear	239/59	František Lomoz	254/1016+ST7
54499.57351	0.0014	I	CCD+Clear	239/228	František Lomoz	254/1016+ST7
SZ Her						
54706.38211	0.0003	II	CCD+R	164/100	Roman Ehrenberger	RL 96/400 + HX516 + R
54620.48324	0.0015	II	CCD+R	45/22	Hana Kučáková	12" LX200 GPS
54620.48360	0.0016	II	CCD+I	42/20	Hana Kučáková	12" LX200 GPS
54620.48526	0.0012	II	CCD+V	46/26	Hana Kučáková	12" LX200 GPS
TT Her						
54580.48611	0.0004	II	CCD+R	149/58	Luboš Brát	RL200, f/10 + CCD ST8 + R
TX Her						
54577.39216	0.0003	I	CCD+R	21/6	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54577.39256	0.0004	I	CCD+I	15/4	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54577.39316	0.0002	I	CCD+V	24/7	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
AK Her						
54580.48692	0.0004	I	CCD+R	43/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54580.48722	0.0003	I	CCD+V	37/15	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54580.48772	0.0005	I	CCD+I	41/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CC Her						
54584.43511	0.0001	I	CCD+R	38/23	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54584.43521	0.0001	I	CCD+I	38/24	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CT Her						

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54593.47117	0.0004	I	CCD+I	48/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54593.47197	0.0004	I	CCD+R	47/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
DI Her						
54627.36623	0.0003	II	CCD+R	70/23	Hana Kučáková	RL 200/1200
54627.36642	0.0005	II	CCD+V	71/25	Hana Kučáková	RL 200/1200
54627.36779	0.0003	II	CCD+I	69/24	Hana Kučáková	RL 200/1200
V 338 Her						
54676.36916	0.0001	I	CCD+Clear	279/121	Lubomír Urbančok	Yepun 254/1200
V 342 Her						
54647.42883	0.0004	II	CCD+R	113/66	Roman Ehrenberger	RL 96/400 + HX516 + R
V 426 Her						
54583.41810	0.0014	I	CCD+Clear	260/70	František Lomoz	254/1016+ST7
V 516 Her						
54595.46984	0.0014	I	CCD+Clear	164/80	František Lomoz	254/1016+ST7
V 691 Her						
54580.53260	0.0014	I	CCD+R	223/144	František Lomoz	254/1016+ST7
V 732 Her						
54584.35466	0.0050	I	CCD+R	126/31	František Lomoz	254/1016+ST7
V 747 Her						
54590.42192	0.0004	I	CCD+Clear	68/32	Jaroslav Trnka	500/2500, CCD ST-9E
V 772 Her						
54584.52343	0.0009	I	CCD+I	42/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54584.52473	0.0004	I	CCD+V	49/23	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54584.52473	0.0010	I	CCD+R	45/23	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 878 Her						
54628.42137	0.0003	II	CCD+R	133/83	Roman Ehrenberger	RL 96/400 + HX516 + R
V1035 Her						
54645.45933	0.0003	I	CCD+R	151/86	Roman Ehrenberger	RL 96/400 + HX516 + R
54556.59470	0.0003	II	CCD+V	83/50	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54556.59514	0.0003	II	CCD+R	82/50	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54556.59557	0.0002	II	CCD+I	82/50	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
V1045 Her						
54531.60775	0.0001	II	CCD+R	217/96	Hana Kučáková	RL 200/1200
54584.42142	0.0002	I	CCD+R	230/107	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
V1049 Her						
54623.41273	0.0002	I	CCD+Clear	134/87	Lubomír Urbančok	Yepun 254/1200
V1064 Her						
54601.38392	0.0003	II	CCD+R	101/59	Roman Ehrenberger	RL 96/400 + HX516 + R

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V1066 Her						
54584.45137	0.0002	II	CCD+R	89/27	Radek Dřevěný	RL 2000/660 CCD G2-402
54584.45187	0.0004	II	CCD+I	92/27	Radek Dřevěný	RL 2000/660 CCD G2-402
V1071 Her						
54620.45831	0.0003	II	CCD+I	134/68	Radek Dřevěný	RL 200/660 CCD G2-402
54620.45878	0.0003	II	CCD+R	133/69	Radek Dřevěný	RL 200/660 CCD G2-402
V1073 Her						
53585.47063	0.0060	I	vis	21/17	Tomas Gerboc	Hugo RL 265/1360
53585.47133	0.0050	I	vis	14/8	Juraj Benko	Hugo RL 265/1360
53585.47333	0.0050	I	vis	27/14	Lubomir Marcin	Hugo RL 265/1360
53585.48313	0.0040	I	vis	16/10	Pavol A. Dubovsky	Hugo RL 265/1360
V1095 Her						
54642.41493	0.0006	I	CCD+R	74/24	Roman Ehrenberger	RL 96/400 + HX516 + R
V1100 Her						
54597.46655	0.0002	II	CCD+R	306/158	Radek Dřevěný	RL 2000/660 CCD G2-402
54631.46696	0.0002	II	CCD+R	183/118	Roman Ehrenberger	RL 96/400 + HX516 + R
UY Hya						
54524.48691	0.0004	I	CCD+Clear	164/56	Jaroslav Trnka	500/2500, CCD ST-9E
SW Lac						
53585.45190	0.0060	I	vis	12/8	Matuš Rebič	Somet Binar 25x100
53585.46160	0.0060	I	vis	11/8	Martin Pauco	Somet Binar 25x100
VY Lac						
54425.26996	0.0008	II	CCD+R	41/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54425.27086	0.0003	II	CCD+I	42/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
AW Lac						
54706.49666	0.0006	I	CCD+I	44/22	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54706.49706	0.0003	I	CCD+V	42/21	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54706.49766	0.0003	I	CCD+R	40/20	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CO Lac						
54433.24690	0.0002	I	CCD+I	67/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54433.24720	0.0002	I	CCD+V	72/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54433.24720	0.0002	I	CCD+R	72/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
EM Lac						
54647.38508	0.0003	II	CCD+R	77/21	Stanislav Poddaný	Meade LX 200 Schmidt-Cassegrain 16, SBIG ST10XME
ES Lac						
54374.49230	0.0009	I	CCD+I	73/49	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54374.49260	0.0007	I	CCD+V	75/51	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54374.49430	0.0010	I	CCD+R	73/50	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
GT Lac						
54357.59272	0.0002	I	CCD+Clear	186/152	Jaroslav Trnka	500/2500, CCD ST-9E

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V 364 Lac						
54674.45937	0.0002	I	CCD+V	62/31	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54674.45947	0.0003	I	CCD+R	60/29	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54674.45997	0.0003	I	CCD+I	58/30	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CzeV115 Lac						
54434.29264	0.0021	I	CCD+V	48/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54434.29274	0.0014	I	CCD+I	57/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54434.29424	0.0013	I	CCD+R	56/31	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CzeV158 Lac						
54705.53731	0.0003	I	CCD+Clear	422/291	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
54706.42506	0.0008	I	CCD+Clear	282/110	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
CzeV159 Lac						
54703.42346	0.0002	II	CCD+Clear	86/54	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
54705.40297	0.0003	II	CCD+Clear	378/83	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
54705.58186	0.0003	I	CCD+Clear	378/308	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
54706.48160	0.0005	II	CCD+Clear	275/162	Jaroslav Trnka	Newton 500/2500; CCD ST-9E
Y Leo						
54509.35195	0.0028	I	CCD+Clear	144/18	Lubomír Urbančok	N 152/903
UV Leo						
54556.33544	0.0003	II	CCD+R	84/46	Roman Ehrenberger	RF34/135 + HX516 + R
BV Leo						
54531.40894	0.0016	I	CCD+Clear	333/82	František Lomoz	254/1016+ST7
54540.39313	0.0005	II	CCD+Clear	46/20	Jaroslav Trnka	500/2500, CCD ST-9E
ET Leo						
54583.38430	0.0005	II	CCD+R	101/41	Luboš Brát	RL200, f/10 + CCD ST8 + R
EX Leo						
54557.34483	0.0004	II	CCD+R	98/55	Roman Ehrenberger	RF34/135 + HX516 + R
GU Leo						
54500.56633	0.0001	I	CCD+R	498/223	Robert Uhlař	N254/1200
GV Leo						
54507.56128	0.0001	II	CCD+R	227/123	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
GW Leo						
54504.51038	0.0004	I	CCD+Clear	345/162	Jaroslav Trnka	RF200/1000, CCD ST-9E
HI Leo						
54507.54205	0.0001	II	CCD+Clear	269/118	Lubomír Urbančok	N 152/903
ES Lib						
54598.52961	0.0008	I	CCD+R	52/28	Robert Uhlař	G2/Sonnar34/135
SW Lyn						
54456.60225	0.0004	II	CCD+R	313/148	Luboš Brát	RL200, f/10 + CCD ST8 + R

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54508.45063	0.0001	I	CCD+R	83/26	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54597.33301	0.0003	I	CCD+I	36/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54597.33321	0.0002	I	CCD+R	25/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54491.38411	0.0004	II	CCD+R	146/67	Roman Ehrenberger	RL96/400 + HX516 + R
CC Lyn						
54506.47063	0.0005	II	CCD+R	178/56	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
54509.47318	0.0010	I	CCD+R	41/17	Petr Svoboda	RF 34/135 mm+ST-7XME+BURI (Bessell 1990)
CN Lyn						
54556.46487	0.0001	I	CCD+R	134/75	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54556.46562	0.0001	I	CCD+I	126/67	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54556.46735	0.0002	I	CCD+V	123/72	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
DE Lyn						
54499.53585	0.0001	II	CCD+R	33/15	Hana Kučáková	RL 200/1200
54556.35961	0.0003	II	CCD+R	27/7	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
54556.36276	0.0003	II	CCD+V	27/10	Radek Kocián	Newton 200/1200 + SBIG ST8-XME
DY Lyn						
54509.44473	0.0003	II	CCD+I	22/15	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54509.44503	0.0002	II	CCD+V	20/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54509.44543	0.0002	II	CCD+R	19/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54555.40870	0.0002	II	CCD+R	22/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54555.40900	0.0004	II	CCD+I	20/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54557.37892	0.0003	I	CCD+I	35/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54557.37932	0.0002	I	CCD+R	34/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
CzeV162 Lyn						
54737.59199	0.0003	I	CCD+R	82/51	Luboš Brát	RL200, f/6 + CCD ST8 + R
TZ Lyr						
54681.40930	0.0003	I	CCD+R	53/15	Pavel Marek	RL150/750 + G2 (filtr:UBVRI)
54631.43571	0.0014	II	CCD+Clear	162/57	František Lomoz	130/360+ST7
54640.42409	0.0003	II	CCD+R	137/61	Roman Ehrenberger	RL 96/400 + HX516 + R
IY Lyr						
54584.54561	0.0003	I	CCD+Clear	318/119	Jaroslav Trnka	500/2500, CCD ST-9E
54593.66400	0.0006	I	CCD+Clear	181/155	Jaroslav Trnka	500/2500, CCD ST-9E
NY Lyr						
54675.37752	0.0014	I	CCD+V	316/45	František Lomoz	AeroXenar 90/320+ST2000XM
54675.59831	0.0140	II	CCD+Clear	316/312	František Lomoz	AeroXenar 90/320+ST2000XM
54639.44933	0.0016	II	CCD+R	128/47	František Lomoz	130/360 + ST7
54639.45283	0.0016	II	CCD+V	125/65	František Lomoz	Aero Xenar 90/320+ST-2000XM
V 563 Lyr						
54723.32349	0.0003	II	CCD+R	156/53	Roman Ehrenberger	RL 96/400 + HX516 + R
54390.31758	0.0004	I	CCD+R	131/78	Roman Ehrenberger	RL96/400 + HX516 + R
V 572 Lyr						
54624.53141	0.0014	I	CCD+R	248/192	František Lomoz	130/360+ST7

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V 575 Lyr 54617.52812		I	CCD+R	480/404	František Lomoz	254/1016+ST2000XM
V 576 Lyr 54645.48921	0.0014	I	CCD+V	78/48	František Lomoz	AeroXenar 90/320+ST2000XM
V 581 Lyr 54696.51552	0.0008	I	CCD+R	138/91	Pavel Marek	RL150/750 + G2 (filtr:R)
DD Mon 54535.38395	0.0004	I	CCD+R	46/32	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54535.38405	0.0003	I	CCD+V	44/31	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54535.38535	0.0003	I	CCD+I	44/30	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
V 451 Mon 54535.38135	0.0140	I	CCD+Clear	133/121	František Lomoz	254/1016+ST7
V 453 Mon 54536.29123	0.0003	II	CCD+R	152/46	Roman Ehrenberger	RL96/400 + HX516 + R
54512.27321	0.0006	II	CCD+I	71/44	Hana Kučáková	RL 200/1200
54512.27396	0.0005	II	CCD+R	51/34	Hana Kučáková	RL 200/1200
54512.27492	0.0004	II	CCD+V	70/46	Hana Kučáková	RL 200/1200
V 455 Mon 54505.53771	0.0014	I	CCD+Clear	181/178	František Lomoz	254/1016+ST7
V 457 Mon 54500.40191	0.0014	I	CCD+Clear	185/140	František Lomoz	254/1016+ST7
V 458 Mon 54521.28615	0.0140	II	CCD+R	230/37	František Lomoz	254/1016+ST7
54469.48568	0.0003	I	CCD+R	133/86	Hana Kučáková	RL 200/1200
V 459 Mon 54523.35061	0.0030	I	CCD+R	88/70	František Lomoz	254/1016+ST7
V 460 Mon 54505.40024	0.0005	I	CCD+R	132/60	Roman Ehrenberger	RL96/400 + HX516 + R
V 463 Mon 54521.37437	0.0004	I	CCD+Clear	230/45	Jaroslav Trnka	500/2500, CCD ST-9E
54531.48970	0.0004	I	CCD+Clear	207/160	Jaroslav Trnka	500/2500, CCD ST-9E
V 524 Mon 54504.39353	0.0014	I	CCD+Clear	203/79	František Lomoz	254/1016+ST7
54504.53648	0.0010	II	CCD+Clear	203/195	František Lomoz	254/1016+ST7
CzeV87 Mon 54524.36032	0.0006	I	CCD+V	35/12	Petr Zásche	65cm-telescope
54524.36126	0.0006	I	CCD+R	33/8	Petr Zásche	65cm-telescope
54524.36134	0.0010	I	CCD+I	32/11	Petr Zásche	65cm-telescope
V 839 Oph						

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54600.49014	0.0003	II	CCD+V	33/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54600.49014	0.0007	II	CCD+I	29/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54600.49044	0.0002	II	CCD+R	26/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54299.44621	0.0040	II	vis	27/15	Wojciech Pluskwa	Somet Binar 25x100	
54299.43571	0.0050	II	vis	16/8	Patryk Derylo	Somet Binar 25x100	
54298.39204	0.0040	I	vis	17/3	Justyna Zuzia	Somet Binar 25x100	
54299.46351	0.0040	II	vis	24/17	Justyna Zuzia	Somet Binar 25x100	
54298.39694	0.0030	I	vis	12/5	Bartłomiej Debski	Somet Binar 25x100	
V2377 Oph							
54599.46783	0.0008	I	CCD+R	54/20	Robert Uhlař	G2/Sonnar34/135	
FR Ori							
54506.30566	0.0001	I	CCD+Clear	319/166	Lubomír Urbančok	N 152/903, MEADE DSI	
V 392 Ori							
54521.38085	0.0001	II	CCD+Clear	814/422	Lubomír Urbančok	N 152/903	
V1371 Ori							
54389.49496	0.0010	I	CCD+R	249/59	Luboš Brát	RL200, f/10 + CCD ST8 + R	
CzeV151 Ori							
54534.34537	0.0005	I	CCD+V	183/88	Petr Zasche	40cm-telescope	
54534.34546	0.0005	I	CCD+R	183/88	Petr Zasche	40cm-telescope	
AT Peg							
54410.26738	0.0002	I	CCD+R	183/88	Roman Ehrenberger	RL96/400 + HX516 + R	
53972.43604	0.0060	I	vis	14/11	Michal Mráz	Somet Binar 25x100	
53972.43184	0.0060	I	vis	14/11	Matúš Rebič	Somet Binar 25x100	
DI Peg							
54298.46755	0.0030	I	vis	17/6	Michal Mráz	Somet Binar 25x100	
DV Peg							
54683.45155	0.0011	I	CCD+V	18/10	Pavel Marek	RL150/750 + G2 (filtr:V)	
54683.45205	0.0002	I	CCD+R	79/41	Luboš Brát	RL200, f/6 + CCD ST8 + R	
54683.45275	0.0008	I	CCD+I	23/12	Pavel Marek	RL150/750 + G2 (filtr:I)	
54683.45385	0.0004	I	CCD+R	21/11	Pavel Marek	RL150/750 + G2 (filtr:R)	
54683.45611	0.0012	I	CCD+B	19/10	Pavel Marek	RL150/750 + G2 (filtr:B)	
GP Peg							
54424.24974	0.0003	II	CCD+R	183/79	Roman Ehrenberger	RL96/400 + HX516 + R	
IU Per							
54719.48005	0.0002	II	CCD+R	398/90	Radek Kocián	Newton 200/1200 + SBIG ST8-XME	
KR Per							
54555.31831	0.0006	I	CCD+I	22/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54555.31991	0.0012	I	CCD+V	18/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54555.32011	0.0008	I	CCD+R	19/8	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
KW Per							
54508.40299	0.0001	II	CCD+Clear	364/179	Lubomír Urbančok	N 152/903	

V 578 Per						
54699.57181	0.0008	I	CCD+V	61/42	Luboš Brát	RL200, f/6 + CCD ST8 + R
54699.57303	0.0008	I	CCD+R	60/42	Luboš Brát	RL200, f/6 + CCD ST8 + R
54699.57326	0.0006	I	CCD+I	60/42	Luboš Brát	RL200, f/6 + CCD ST8 + R
54433.58399	0.0004	I	CCD+R	210/110	Hana Kučáková	RL 200/1200
AO Ser						
54581.36041	0.0007	II	CCD+I	33/12	Hana Kučáková	RL 200/1200
V 335 Ser						
54599.45328	0.0007	I	CCD+I	30/16	Hana Kučáková	12" LX200 GPS + CCD ST8 XME
54599.45389	0.0005	I	CCD+R	30/17	Hana Kučáková	12" LX200 GPS + CCD ST8 XME
54599.45476	0.0006	I	CCD+V	32/19	Hana Kučáková	12" LX200 GPS + CCD ST8 XME
DK Sge						
54710.43809	0.0003	I	CCD+R	51/33	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54710.43889	0.0003	I	CCD+I	50/32	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
SV Tau						
54489.27425	0.0003	I	CCD+R	170/88	Roman Ehrenberger	RL96/400 + HX516 + R
CU Tau						
54388.61075	0.0006	II	CCD+I	104/91	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54388.61175	0.0004	II	CCD+R	104/91	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.43435	0.0006	II	CCD+V	29/15	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.43495	0.0004	II	CCD+R	32/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.43495	0.0006	II	CCD+I	30/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
EQ Tau						
54389.50070	0.0003	I	CCD+V	31/6	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.50070	0.0002	I	CCD+I	31/6	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54389.50090	0.0002	I	CCD+R	30/6	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54506.24277	0.0005	I	CCD+I	16/4	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54506.24347	0.0005	I	CCD+R	15/3	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54509.31457	0.0001	I	CCD+V	55/30	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54509.31467	0.0001	I	CCD+R	56/30	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54509.31467	0.0002	I	CCD+I	57/30	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
GR Tau						
54433.45947	0.0014	I	CCD+I	29/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54433.45957	0.0005	I	CCD+V	29/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54433.45977	0.0012	I	CCD+R	28/19	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54517.28217	0.0004	I	CCD+R	167/69	Roman Ehrenberger	RL96/400 + HX516 + R
V1130 Tau						
54389.56847	0.0002	I	CCD+I	48/29	Radek Dřevěný	Sonnar 180/4,0 + CCD G2/402, obor I
V1234 Tau						
54716.61982	0.0006	II	CCD+Clear	123/98	Luboš Brát	RL200, f/6 + CCD ST8 + R
RV Tri						
54374.48872	0.0005	II	CCD+R	116/39	Robert Uhlař	N254/1200

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54374.49357	0.0005	II	CCD+I	111/45	Robert Uhlař	N254/1200	
54374.49456	0.0011	II	CCD+V	66/20	Robert Uhlař	N254/1200	
VW Tri							
54718.40864	0.0014	I	CCD+Clear	121/55	František Lomoz	254/1016+ST2000XM	
VV UMa							
54612.37646	0.0003	I	CCD+R	25/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54612.37676	0.0002	I	CCD+V	23/10	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54612.37696	0.0003	I	CCD+I	24/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
XY UMa							
54521.45014	0.0002	I	CCD+R	35/25	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54521.45034	0.0002	I	CCD+V	39/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
54521.45034	0.0002	I	CCD+I	38/28	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7	
ZZ UMa							
54499.61246	0.0001	I	CCD+R	134/43	Hana Kučáková	RL 200/1200	
AA UMa							
54540.40184	0.0003	II	CCD+R	114/54	Roman Ehrenberger	RL96/400 + HX516 + R	
AC UMa							
54620.45901	0.0007	I	CCD+V	57/36	Hana Kučáková	RL 200/1200	
54620.45921	0.0007	I	CCD+I	62/39	Hana Kučáková	RL 200/1200	
54620.45933	0.0011	I	CCD+R	66/42	Hana Kučáková	RL 200/1200	
EQ UMa							
54507.55734	0.0009	I	CCD+R	308/182	Luboš Brát	RL200, f/10 + CCD ST8 + R	
ES UMa							
54571.36015	0.0005	II	CCD+R	138/76	Roman Ehrenberger	RL96/400 + HX516 + R	
54585.37441	0.0004	I	CCD+R	148/68	Roman Ehrenberger	RL 96/400 + HX516 + R	
HR UMa							
54480.58242	0.0003	I	CCD+I	93/47	Radek Kocián	Newton 200/1200 + SBIG ST8-XME	
54480.58363	0.0003	I	CCD+V	89/47	Radek Kocián	Newton 200/1200 + SBIG ST8-XME	
54480.58419	0.0003	I	CCD+R	94/51	Radek Kocián	Newton 200/1200 + SBIG ST8-XME	
HV UMa							
54508.54998	0.0005	II	CCD+R	108/52	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)	
MQ UMa							
54499.64764	0.0030	I	CCD+R	103/86	Luboš Brát	RL200, f/10 + CCD ST8 + R	
MT UMa							
54508.56851	0.0002	I	CCD+R	282/201	Luboš Brát	RL200, f/10 + CCD ST8 + R	
TU UMi							
54513.41998	0.0006	II	CCD+R	130/27	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)	
54513.61237	0.0008	I	CCD+R	130/95	Petr Svoboda	RF 34/135 mm+ST-7XME+BVRI (Bessell 1990)	
HT Vir							

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54577.34663	0.0002	II	CCD+R	20/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54577.34693	0.0002	II	CCD+I	25/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54577.34833	0.0003	II	CCD+V	22/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54599.35967	0.0003	II	CCD+R	17/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54599.35997	0.0002	II	CCD+I	24/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
LU Vir						
54557.46677	0.0010	I	CCD+I	37/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54557.46727	0.0010	I	CCD+R	34/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54594.37809	0.0005	I	CCD+R	18/9	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54594.37829	0.0008	I	CCD+I	21/9	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
PS Vir						
54535.52011	0.0002	I	CCD+R	44/32	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54535.52011	0.0002	I	CCD+I	39/27	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54583.33774	0.0001	I	CCD+R	34/13	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54583.33774	0.0002	I	CCD+I	35/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
PT Vir						
54507.62929	0.0008	I	CCD+Clear	174/132	Jaroslav Trnka	500/2500, CCD ST-9E
RS Vul						
54623.43543	0.0025	I	CCD+R	32/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54623.43623	0.0008	I	CCD+V	30/17	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
BP Vul						
54391.36600	0.0003	I	CCD+R	50/11	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54391.36600	0.0003	I	CCD+I	50/12	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
BS Vul						
54649.41715	0.0003	II	CCD+R	166/80	Roman Ehrenberger	RL 96/400 + HX516 + R
BU Vul						
54748.31789	0.0006	II	CCD+R	77/31	Roman Ehrenberger	RL 96/400 + HX516 + R
54389.29731	0.0004	II	CCD+R	148/79	Roman Ehrenberger	RL96/400 + HX516 + R
CD Vul						
54738.31026	0.0004	II	CCD+R	107/49	Roman Ehrenberger	RL 96/400 + HX516 + R
DR Vul						
54426.18151	0.0002	II	CCD+R	141/77	Hana Kučáková	RL 200/1200
GP Vul						
54676.36299	0.0003	I	CCD+R	35/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54676.36309	0.0003	I	CCD+I	41/14	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54388.29148	0.0003	I	CCD+I	32/18	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54388.29158	0.0002	I	CCD+V	30/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
54388.29198	0.0003	I	CCD+R	28/16	Ladislav Šmelcer	Celestron 280/1765 + CCD ST7
GU Vul						
54674.43112	0.0006	II	CCD+R	137/56	Roman Ehrenberger	RL 96/400 + HX516 + R
54712.36954	0.0003	II	CCD+R	119/62	Roman Ehrenberger	RL 96/400 + HX516 + R
54719.33556	0.0004	II	CCD+R	99/47	Roman Ehrenberger	RL 96/400 + HX516 + R

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KN Vul 54676.54981	0.0007	I	CCD+Clear	109/36	Lubomír Urbančok	Yepun 254/1200
CzeV160 Vul 54682.41857	0.0008	I	CCD+R	65/32	Roman Ehrenberger	RL 96/400 + HX516 + R
G1614.0673 Vul 54649.41343	0.0003	I	CCD+R	126/54	Roman Ehrenberger	RL 96/400 + HX516 + R

Table 2: List of 36 observers and corresponding amounts of obtained minima timings.

# OBSERVER	OBS.	# OBSERVER	OBS.
1 Ladislav Šmelcer	218	19 H. Kučáková & L. Ďurovec	3
2 Hana Kučáková	68	20 Justyna Zuzia	3
3 Roman Ehrenberger	63	21 Lubomir Marcin	3
4 Radek Kocián	40	22 Matúš Rebič	3
5 František Lomoz	33	23 Patryk Derylo	3
6 Lubomír Urbančok	24	24 Bartłomiej Debski	2
7 Petr Svoboda	23	25 Jiří Kohoutek	2
8 Jaroslav Trnka	22	26 Pavol A. Dubovsky	2
9 Luboš Brát	21	27 Petr Sobotka	2
10 Pavel Marek	18	28 Slavomír Kačmár	2
11 Radek Dřevěný	18	29 Tomas Gerboc	2
12 Robert Uhlář	16	30 Jacek Furdak	1
13 Stanislav Poddaný	6	31 Maros Rusnak	1
14 Petr Zasche	5	32 Martin Pauco	1
15 Wojciech Pluskwa	5	33 Michal Grzyb	1
16 Juraj Benko	4	34 Pavol Onderčín	1
17 Marek Skarka	4	35 R. Kocián & L. Ďurovec	1
18 Michal Mráz	4	36 Václav Novotný	1

Table 3: Identification of objects without final designation in GCVS which were mentioned in the main table.

Object	Cross-identification	RA 2000	DE 2000
G1077.0828 Aql	GSC 1077-0828	20 13 09.78	+10 20 39.9
CzeV131 Cas	GSC 4041-0673	02 11 27.81	+64 49 39
CzeV135 Cas	GSC 3682-2051	01 20 23.14	+59 17 16.18
CzeV153 Cep	GSC 4479-0391	23 51 13.17	+68 55 26.4
G4487.0347 Cep	GSC 4487-0347	23 46 10.53	+71 29 55.2
G2685.1186 Cyg	GSC 2685-1186	20 28 04.93	+31 17 10.0
G2685.1453 Cyg	GSC 2685-1453	20 27 26.55	+31 05 38.7
CzeV115 Lac	GSC 3983-1532	22 32 37.85	+54 05 27.9
CzeV158 Lac	2MASS 22103710+4738219	22 10 37.10	+47 38 21.9
CzeV159 Lac	2MASS 22115481+4739183	22 11 54.81	+47 39 18.3
CzeV162 Lyn	GSC 3793-1866	07 20 39.94	+58 22 52.1
CzeV87 Mon	USNO A-2.0 0900-04338959	07 08 43.6	+00 41 43.8
CzeV151 Ori	GSC 0143-1246	06 11 07.09	+06 17 10.6
CzeV160 Vul	GSC 2144-0407	19 48 55.3	+26 04 38
G1614.0673 Vul	GSC 1614-0673	19 37 51.87	+21 35 26.0

Notes on new variables in the main table

- **CzeV131 Cas** – New variable near V 785 Cas discovered by Kučáková, Truparová, Dřevěný (see Brát, 2008). Orbital elements unknown.

- **CzeV135 Cas** – New variable near BS Cas discovered by Kocián, Hambalek, Šmelcer (see Kocián et al., 2008).
 $M_I = 2454389.503157 + 0.514270x_E$, $M_{II} = 2454500.332011 + 0.514270x_E$.
- **CzeV153 Cep** – New variable near XY Cep discovered by Brát (see Brát, 2008),
 $M_I = 2454585.647383 + 0.333985x_E$, $M_{II} = 2454585.48039 + 0.333985x_E$ (this paper)
- **CzeV115 Lac** – New long period EA binary discovered by Šmelcer (see Brát, 2008).
Orbital elements unknown. [See available data.](#)
- **CzeV158 Lac** – New variable near GO Lac discovered by Trnka (see Brát, 2008).
Orbital elements unknown. [See available data.](#)
- **CzeV159 Lac** – New variable near GO Lac discovered by Trnka. Low mass eclipsing binary, EA type with orbital elements
 $M_I = 2454705.581810 + 0.359625x_E$, $M_{II} = 2454705.761623 + 0.359625x_E$ (see Trnka, 2008)
- **CzeV162 Lyn** – New variable near transiting exoplanet XO-4b discovered by Brát (see Brát, 2008). [See available data.](#)
- **CzeV87 Mon** – Faint Eclipsing binary discovered by Zejda in 2005 near BM Mon (see Brát, 2008). Orbital elements unknown.
- **CzeV151 Ori** – New eclipsing binary (EA type) discovered by Zasche near HD 252984. $M_I = 2454534.3440 + 0.45950x_E$. (Zasche, 2008)
- **CzeV160 Vul** – New variable near GU Vul discovered by Ehrenberger (see Brát, 2008). Orbital elements unknown. [See available data.](#)
- **G1614.0673 Vul** – New eclipsing binary discovered by Ehrenberger (see Brát, 2008).
Identical with ASAS 193752+2135.5

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