

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 0073.

Instruments used

The following telescopes and observatories have been used:

Asas = automated telescope <http://www.astrouw.edu/asas/>
 Tarot = automated telescope, description in OEJV 0070
 Rotse = automated telescope <http://skydot.lanl.gov/>
 50cm+ST7 = 50 cm mirror, primary focus, SBIG ST-7, observatory Hakos IAS, Namibia
 AK2+G2 = 45 cm mirror, primary focus, G2-402 camera, observatory Hakos IAS, Namibia
 Tak+STE = Takahashi 160 mm with StarLight Xpress, observatory Hakos IAS, Namibia
 28cm+Cryo = 280 mm Newton, Cryocam 80A, observatory in Eggerberg, Switzerland
 28cm+G2 = 280 mm Newton, G2-402 camera, observatory in Eggerberg, Switzerland
 50mm+G1 = 50/135 mm teleobjective, G1 camera, Eggerberg or Hakos

Coordinates

Coordinates are all J2000.

The coordinates of stars identified in the GCVS and NSV will not be repeated here.

The following stars identified by Guide Star Catalog have been observed:

GSC 03627-01580	And	23:10:12.46	+47:34:14.9
GSC 09269-01993	Aps	14:32:39.00	-73:46:36.0
GSC 01761-01246	Ari	02:12:08.86	+27:08:17.5
GSC 01761-01934	Ari	02:09:07.84	+26:29:07.3
GSC 02323-00199	Ari	02:32:15.17	+30:16:52.3
GSC 04833-01923	CMi	07:57:17.00	-00:05:00.0
GSC 07740-01289	Cen	11:34:44.97	-38:25:49.1
GSC 07744-00868	Cen	11:31:04.50	-41:07:03.0
GSC 07794-00682	Cen	13:58:56.80	-40:53:50.0
GSC 07291-01443	Cen	13:53:14.16	-37:23:14.3
GSC 07755-00324	Cen	12:00:36.20	-39:15:33.8
GSC 07229-00714	Cen	11:45:39.00	-36:22:54.0
GSC 05850-00661	Cet	00:57:12.00	-19:35:54.0
GSC 05270-00645	Cet	00:55:30.00	-11:06:36.0
GSC 01457-00435	Com	13:15:01.28	+21:13:53.4
GSC 05503-00926	Crt	11:03:30.10	-10:59:14.3
GSC 03900-00615	Dra	17:25:40.81	+59:15:31.3
GSC 04391-00491	Dra	11:11:28.62	+73:06:53.7
GSC 06686-00470	Hya	12:26:18.00	-25:46:18.0
GSC 05591-01066	Lib	15:00:00.00	-14:17:00.0
GSC 08722-00769	Nor	16:12:06.20	-59:42:49.0
GSC 02751-01007	Peg	23:10:34.00	+31:42:53.0
GSC 03695-01845	Per	02:38:24.04	+56:31:56.6
GSC 00282-00743	Vir	12:22:52.80	+01:17:50.6
GSC 00285-01075	Vir	12:24:18.00	+03:51:34.0
GSC 00289-00144	Vir	12:33:51.00	+01:57:06.0

SvkV is a list of variable stars detected in Slovakia.

SvkV001 Peg 21:39:43.38 +26:34:46.5

SvkV001 Peg was announced in IBVS 5700. S

We (Radek Dreveny, Anton Paschke, Friedhelm Hund) maintain our own list of newly detected variable stars. Observations of the following stars are reported here.

RafV001	Aps	15:31:55.9	-78:23:05
RafV050	Aps	14:39:38.0	-73:59:40
RafV121	Aps	15:19:44.0	-77:38:40
RafV133	Aps	14:50:04.5	-71:11:40
RafV134	Cha	11:01:10.0	-81:23:25
RafV080	Cru	12:38:22.0	-63:54:20
RafV138	Del	20:22:51.0	+10:26:30
RafV132	Gem	07:52:58.0	+21:48:40
RafV135	Oph	18:10:19.0	+03:08:07
RafV136	Oph	17:15:48.0	-18:10:00
RafV115	Tuc	00:01:04.0	-66:57:42

Coordinates of most RafV stars are determined by visual comparison of ccd image and ESO Digital Sky Survey. They are certainly accurate enough to identify the star.

Elements

UU	And	min	41650.350	1.486301
CZ	And	min	31001.482	2.717148
GSC 03627-01580	And	min	48164.6528	0.937905
XX	Ant	min	38441.879	0.8880136
UW	Aps	max	52402.510	0.503485
ZZ	Aps	max	36694.430	0.3774995
AA	Aps	max	36728.535	0.541670
AB	Aps	max	36728.380	0.481861
AF	Aps	min	52433.277	0.7976244
AH	Aps	max	36720.440	0.48870
AI	Aps	max	36729.430	0.55415
AN	Aps	min	36761.257	1.045547
AU	Aps	max	36694.433	0.5671193
EV	Aps	max	36725.405	0.2833543
MM	Aps	min	52406.697	3.7300
NT	Aps	min	48500.212	0.294765
NW	Aps	min	48500.649	1.065548
GSC 09269-01993	Aps	min	51904.150	0.364317
RafV001	Aps	min	53544.493	0.304565
RafV050	Aps	min	52135.508	0.939865
RafV121	Aps	min	54283.320	0.250
RafV133	Aps	max	25433.240	0.264281
RY	Aqr	min	43359.360	1.966578
UU	Aqr	min	46347.266	0.16358045
CC	Aqr	max	51420.114	0.46829
CY	Aqr	max	45972.1828	0.06103845
EE	Aqr	min	40828.7804	0.5089958
HH	Aqr	max	51429.402	0.574433
OO	Aqr	min	52227.514	0.586612
V1542	Aql	min	52112.1411	0.417537

V 535	Ara	min	39292.9353	0.6293025
V 537	Ara	min	38233.340	1.874350
GSC 01761-01246	Ari	min	51479.6566	0.318196
GSC 01761-01934	Ari	min	51525.671	0.299375
GSC 02323-00199	Ari	min	51501.705	0.367055
BF	Aur	min	40628.3644	1.583222
HL	Aur	min	25588.427	0.6225056
SU	Boo	min	21071.383	1.561250
SV	Boo	max	37812.5105	0.5814423
UY	Boo	max	46904.390	0.650907
AQ	Boo	min	50518.521	0.3331395
CV	Boo	min	46466.581	0.8469932
RY	Cnc	min	46762.587	1.092946
TX	Cnc	min	52352.632	0.3828827
WY	Cnc	min	52352.327	0.8293686
RV	CMi	max	47566.381	0.625446
RW	CMi	min	25346.370	6.083829
SX	CMi	min	48672.390	3.431590
TZ	CMi	min	25217.530	1.776814
UY	CMi	min	25532.630	4.4521
AC	CMi	min	46140.641	0.867217
AG	CMi	min	34698.647	1.6645363
AH	CMi	max	30267.663	0.345843
AY	CMi	min	31555.410	3.92047
BH	CMi	min	51189.486	0.5592485
BL	CMi	min	47170.600	5.904220
CW	CMi	min	52226.607	0.3131937
GSC 04833-01923	CMi	min	51870.964	0.660750
DD	Car	min	23904.270	1.442714
BI	Cas	min	51336.273	2.198640
CW	Cas	min	52527.421	0.3188621
MM	Cas	min	35401.483	1.158475
OR	Cas	min	44210.389	1.245709
V 355	Cas	min	30260.550	2.259480
V 380	Cas	min	25645.505	1.357270
V 384	Cas	min	36073.516	1.108265
V 523	Cas	min	44162.708	0.2336923
SV	Cen	min	49017.650	1.65766
V 480	Cen	max	51967.497	0.534745
V 752	Cen	min	44243.690	0.370225
V 757	Cen	min	42308.6931	0.3431686
V 758	Cen	min	44403.2796	0.580785
V1109	Cen	min	52414.567	3.3370
GSC 07740-01289	Cen	max	51962.856	0.129485
GSC 07744-00868	Cen	max	52662.232	0.353232
GSC 07794-00682	Cen	max	52089.131	0.615901
GSC 07291-01443	Cen	min	51888.260	0.525988
GSC 07755-00324	Cen	min	51871.020	0.292672
GSC 07229-00714	Cen	min	51871.100	0.406552
RS	Cep	min	40862.607	12.4200
XX	Cep	min	44839.802	2.337321
AI	Cep	min	26550.341	4.225310
BB	Cep	min	27327.510	30.18610
BU	Cep	min	26821.400	1.414370
EX	Cep	min	52873.341	13.434440
IO	Cep	min	30729.280	1.2358075
KL	Cep	min	34724.700	256.10
V 731	Cep	min	53137.442	6.068453
TY	Cet	max	27414.168	0.323676
UU	Cet	max	41208.576	0.606075
WZ	Cet	min	26308.415	2.306131
GSC 05850-00661	Cet	max	51869.337	0.480521
GSC 05270-00645	Cet	min	51397.527	0.543266

RT	Cha	min	51880.743	0.3551095
RZ	Cha	min	41401.771	2.832086
TU	Cha	min	36728.253	0.5570476
TX	Cha	min	36808.250	0.901644
RafV134	Cha	min	54986.301	0.320
S	Cir	min	29117.474	9.97685
CL	Cir	min	48501.780	5.25379
S	Com	max	45459.368	0.5865868
NSV 05740	Com	min	54261.554	0.338165
GSC 01457-00435	Com	min	53120.450	0.427842
Y	Crv	max	51280.755	0.329037
Z	Crv	min	43940.632	0.504752
Z	Crt	min	31206.325	3.051853
TW	Crt	min	48500.718	0.944281
GSC 05503-00926	Crt	max	51532.290	0.376969
VZ	Cru	min	24775.902	1.1258132
RafV080	Cru	min	54282.338	0.850710
ZZ	Del	max	37690.347	0.520191
CE	Del	min	52384.090	0.597272
EG	Del	max	32580.490	0.324844
ET	Del	min	31432.559	1.010783
EW	Del	min	30613.6896	0.391047
EX	Del	min	29846.600	0.3309878
FZ	Del	min	31324.323	0.7832115
GG	Del	min	28761.710	0.563226
RafV138	Del	min	55075.396	0.36150
GSC 03900-00615	Dra	min	51403.845	0.533529
GSC 04391-00491	Dra	min	53081.5018	0.439402
X	Equ	max	36894.180	0.4764403
RT	Equ	max	51055.471	0.444832
RZ	Equ	min	37161.373	1.960940
ZZ	Eri	min	44244.312	0.452060
RafV132	Gem	min	54912.424	0.339150
AV	Hya	min	47263.429	0.6833985
GSC 06686-00470	Hya	min	52386.640	0.371497
RS	Ind	min	27000.179	0.62406531
AO	Ind	max	52117.889	0.398160
NSV 14186	Ind	max	52548.608	0.576158
XY	Leo	min	45074.475	0.2841029
XZ	Leo	min	45025.360	0.487737
AP	Leo	min	45441.053	0.4303555
EH	Lib	max	33438.6082	0.08841324
SX	Lup	min	34270.290	0.685845
DE	Lyn	min	51630.638	0.408821
GSC 08722-00769	Nor	max	52639.883	0.375365
Y	Oct	max	28378.650	0.6465564
SW	Oph	min	38957.365	2.446070
VY	Oph	max	27874.634	0.497615
XZ	Oph	max	25717.600	0.5501846
V 408	Oph	max	35226.531	0.435910
V 413	Oph	max	29609.8869	0.44900586
V 415	Oph	min	43199.585	2.537145
V 441	Oph	min	35663.821	3.058525
V 448	Oph	min	26867.378	1.819698
V 487	Oph	min	44486.235	3.13583516
V 496	Oph	min	49127.547	2.5758615
V 509	Oph	min	25123.355	1.223458
V 511	Oph	min	26413.605	1.065700
V 524	Oph	max	28778.270	0.308926
V 528	Oph	min	28401.291	5.410980
V 573	Oph	min	48823.406	4.352269
V1016	Oph	min	46907.546	0.407161
V2203	Oph	min	42812.645	0.455001

V2388	Oph	min	48500.120	0.802299
V2425	Oph	min	50265.452	1.763055
V2612	Oph	min	52798.4897	0.3753161
RafV135	Oph	min	55000.421	0.56
RafV136	Oph	min	54994.478	not known
EG	Ori	min	25245.410	1.1631628
FO	Ori	min	31820.627	18.80055
SS	Pav	max	51963.880	0.658310
ZZ	Peg	min	25088.855	0.6673555
CC	Peg	min	24791.680	0.6056039
SvkV001	Peg	min	53240.596	0.556231
GSC 02751-01007	Peg	min	52885.245	0.417453
GSC 03695-01845	Per	min	54277.545	4.60550
YY	Sgr	min	19467.077	2.628477
ZZ	Sgr	min	43344.9859	3.083390
V1288	Sco	min	52040.789	1.108897
EZ	Sct	min	27901.996	1.134656
OU	Ser	min	48500.278	0.2967645
RZ	Tau	min	41023.1641	0.4156763
TY	Tau	min	21192.395	1.0773635
WY	Tau	min	37402.258	0.6927606
AH	Tau	min	42433.350	0.332672
CT	Tau	min	45404.357	0.666827
RW	Tri	min	43512.6615	0.23188315
NSV 00001	Tuc	min	51869.070	0.326576
RafV115	Tuc	min	54275.632	0.337200
UX	UMa	min	37432.820	0.1966713
FM	Vel	min	29043.238	0.3895262
GR	Vir	min	45116.381	0.346971
MS	Vir	min	48500.196	0.3124373
NN	Vir	min	48500.512	0.4806868
PY	Vir	min	51661.690	0.311250
GSC 00282-00743	Vir	max	51612.890	0.542991
GSC 00285-01075	Vir	min	51259.608	0.354316
GSC 00289-00144	Vir	min	55007.240	0.260584

The elements, in HJD indeed, are given for maxima in the case of pulsating stars and for primary minima in the case of eclipsing stars.

No elements are given for minima of RR Lyrae stars and secondary minima of eclipsing stars, even in the case that the secondary minima are displaced.

If the star is eclipsing and mentioned in the O-C GATE, then the elements are identical to those of the O-C GATE, state September 2009.

Minima and Maxima timings

The table contains the following columns:

- 01) Star Name. As taken from GCVS, NSV, GSC or the lists mentioned above.
- 02) Constellation
- 03) Kind of extremum. p = primary, s = secondary, max = maximum (RR Lyrae star)
min = minimum of RR Lyr stars, usefull to calculate (M-m)/P
- 04) Julian heliocentric time observed, add 2 400 000.0
It is based on UTC, leap seconds included.
- 05) Error estimated
- 06) O-C value. 0 if no elements are given.
- 07) Number of measurements (ccd images) used. 0 if entire lightcurve was used
or the observer did not communicate the value.
- 08) Color. ccd = unfiltered ccd, V = Johnson, I = Cousin, -Ir = infrared block
- 09) Instrument, see list above
- 10) Remark

UU	And	p	54389.460	0.050	+0.0241	338	ccd	28cm+Cryo	
CZ	And	p	54393.414	0.010	+0.0049	120	ccd	28cm+Cryo	
GSC 03627-01580	And	p	53256.541	0.000	+0.0020	110	ccd	28cm+Cryo	
GSC 03627-01580	And	p	54120.353	0.010	+0.0035	0	ccd	60 cm	1)
XX	Ant	s	54991.345	0.003	+0.0005	472	ccd	50mm+G1	
UW	Aps	min	54992.485	0.005	0	698	ccd	50cm+ST7	
UW	Aps	max	54992.560	0.005	+0.1232	698	ccd	50cm+ST7	
ZZ	Aps	max	54283.295	0.007	+0.0308	701	ccd	Tak+STE	
AA	Aps	max	54985.532	0.002	+0.0096	397	ccd	50cm+ST7	
AB	Aps	min	54988.488	0.003	0	278	ccd	50cm+ST7	
AB	Aps	max	54988.541	0.002	+0.0384	278	ccd	50cm+ST7	
AF	Aps	p	54994.449	0.002	+0.0001	519	ccd	50cm+ST7	
AH	Aps	min	54989.597	0.006	0	273	ccd	50cm+ST7	
AH	Aps	max	54989.657	0.006	+0.1449	273	ccd	50cm+ST7	
AI	Aps	min	54997.470	0.008	0	327	ccd	50cm+ST7	
AI	Aps	max	54997.537	0.005	-0.0019	327	ccd	50cm+ST7	
AN	Aps	p	54282.524	0.007	-0.0096	478	ccd	50cm+ST7	
AU	Aps	max	54287.612	0.008	+0.0041	328	ccd	50cm+ST7	
EV	Aps	max	54280.620	0.010	-0.0007	230	ccd	Tak+STE	
MM	Aps	p	54995.338	0.005	+0.0210	706	ccd	50cm+ST7	
NT	Aps	p	54981.500	0.006	-0.0048	1508	ccd	50mm+G1	
NT	Aps	s	54981.647	0.007	-0.0480	1508	ccd	50mm+G1	
NW	Aps	p	54984.506	0.010	-0.0026	1083	ccd	Tak+STE	
GSC 09269-01993	Aps	p	54981.531	0.012	-0.0047	1085	ccd	50mm+G1	
RafV001	Aps	p	54994.520	0.010	-0.0070	514	ccd	50cm+ST7	
RafV050	Aps	p	52135.508	0.010	+0.0000	0	ccd	Asas	
RafV050	Aps	p	53543.430	0.005	+0.0042	340	ccd	50cm+ST7	
RafV121	Aps	p	54985.622	0.004	+0.0520	402	ccd	50cm+ST7	
RafV133	Aps	max	54981.452	0.005	+0.0105	399	ccd	50cm+ST7	
RafV133	Aps	max	54982.508	0.004	+0.0094	278	ccd	50cm+ST7	
RafV133	Aps	max	54990.438	0.010	+0.0110	325	ccd	50cm+ST7	
RY	Aqr	p	54708.482	0.003	+0.0004	245	ccd	50mm+G1	
UU	Aqr	p	54797.343	0.003	+0.0010	66	ccd	50mm+G1	
CC	Aqr	max	55005.659	0.002	-0.1515	250	ccd	50cm+ST7	
CY	Aqr	max	54671.563	0.001	-0.0028	170	ccd	28cm+Cryo	
EE	Aqr	s	54979.631	0.005	+0.0039	248	ccd	50mm+G1	
EE	Aqr	p	54988.539	0.005	+0.0044	338	ccd	50mm+G1	
HH	Aqr	max	54988.578	0.003	-0.0109	376	ccd	AK2+G2	
OO	Aqr	p	54991.650	0.005	+0.0203	440	ccd	50mm+G1	
V1542	Aql	p	54657.449	0.005	+0.0023	242	ccd	28cm+Cryo	
CV	Ara	max	55008.329	0.003	+0.0456	418	ccd	AK2+G2	
V 535	Ara	p	54996.549	0.007	-0.0009	399	ccd	50mm+G1	
V 537	Ara	p	54982.520	0.010	-0.0116	815	ccd	50mm+G1	
RafV057	Ara	s	55008.260	0.003	+0.0873	200	ccd	AK2+G2	
GSC 01761-01246	Ari	p	54507.298	0.010	+0.0065	163	ccd	28cm+Cryo	
GSC 01761-01246	Ari	p	54808.304	0.010	-0.0010	328	ccd	50mm+G1	
GSC 01761-01934	Ari	p	54456.252	0.007	-0.0009	94	ccd	28cm+Cryo	

GSC 01761-01934	Ari	p	54808.315	0.007	-0.0029	344	ccd	50mm+G1	
GSC 02323-00199	Ari	p	54765.558	0.008	-0.0001	150	ccd	50mm+G1	
GSC 02323-00199	Ari	p	54797.492	0.008	+0.0002	54	ccd	50mm+G1	
BF	Aur	p	54828.292	0.008	+0.0095	352	ccd	50mm+G1	
HL	Aur	s	54828.444	0.006	-0.0048	246	ccd	50mm+G1	
SU	Boo	s	54990.315	0.020	-0.0043	220	ccd	AK2+G2	
SV	Boo	max	54200.462	0.007	+0.0003	213	ccd	28cm+Cryo	
UY	Boo	max	54507.611	0.007	-0.0237	173	ccd	28cm+Cryo	
AQ	Boo	p	54202.378	0.003	+0.0004	71	ccd	28cm+Cryo	
AQ	Boo	s	54202.543	0.003	-0.0006	83	ccd	28cm+Cryo	
CV	Boo	p	54671.405	0.003	+0.0009	125	ccd	28cm+Cryo	
RY	Cnc	p	54452.563	0.004	+0.0079	44	ccd	28cm+Cryo	
TX	Cnc	p	54507.498	0.005	+0.0022	135	ccd	28cm+Cryo	
WY	Cnc	p	54835.453	0.003	-0.0036	277	ccd	50mm+G1	
CU	CVn	max	54594.387	0.005	0	0	ccd	ST7	2)
RV	CMi	max	54499.480	0.007	+0.0301	88	ccd	28cm+Cryo	
RW	CMi	p	54092.461	0.005	-0.0010	363	ccd	28cm+Cryo	
SX	CMi	p	54454.613	0.010	-0.0062	70	ccd	28cm+Cryo	
TZ	CMi	p	49787.310	0.030	-0.0040	32	ccd	28cm+Cryo	
TZ	CMi	p	51580.135	0.020	+0.0157	0	ccd	Rotse	
TZ	CMi	p	54849.461	0.015	+0.0039	74	VI	Tarot	
TZ	CMi	s	54850.330	0.050	-0.0139	85	VI	Tarot	
UY	CMi	p	52681.475	0.020	-0.0608	0	ccd	28cm+Cryo	
AC	CMi	s	54797.639	0.003	+0.0039	333	ccd	50mm+G1	
AG	CMi	p	54070.515	0.005	-0.0055	350	ccd	28cm+Cryo	
AH	CMi	max	54834.549	0.020	-0.0715	330	ccd	50mm+G1	
AY	CMi	p	54474.478	0.020	+0.0004	0	VI	Tarot	
BH	CMi	p	54489.610	0.010	-0.0014	262	ccd	28cm+Cryo	
BL	CMi	p	47170.60	0.04	0.00	0	vis	28cm	
BL	CMi	p	54450.432	0.020	-0.0713	600	VI	Tarot	
CW	CMi	p	54505.406	0.005	+0.0016	127	ccd	28cm+Cryo	
CW	CMi	s	54505.564	0.007	+0.0016	87	ccd	28cm+Cryo	
GSC 04833-01923	CMi	p	54084.480	0.007	+0.0035	384	ccd	28cm+Cryo	
DD	Car	p	54993.308	0.002	-0.0060	467	ccd	50cm+ST7	
BI	Cas	p	54823.320	0.010	+0.0040	175	ccd	50mm+G1	
CW	Cas	p	54380.3296	0.0013	+0.0009	0	V	20cm+ST7	3)
MM	Cas	p	54070.314	0.010	+0.0064	0	ccd	28cm+Cryo	
OR	Cas	p	54406.517	0.004	-0.0002	211	ccd	28cm+Cryo	
V 355	Cas	p	54432.465	0.010	-0.0020	138	ccd	28cm+Cryo	
V 380	Cas	p	54388.417	0.008	+0.0052	167	ccd	28cm+Cryo	
V 384	Cas	p	54405.342	0.010	+0.0146	163	ccd	28cm+Cryo	
V 523	Cas	s	54405.559	0.005	+0.0005	221	ccd	28cm+Cryo	
SV	Cen	s	55004.282	0.005	-0.0083	818	ccd	Tak+STE	
V 480	Cen	max	54996.285	0.002	-0.0077	342	ccd	50cm+ST7	
V 752	Cen	p	54988.390	0.006	+0.0301	356	ccd	50mm+G1	
V 757	Cen	p	54986.367	0.007	-0.0037	393	ccd	50mm+G1	
V 757	Cen	p	54996.321	0.006	-0.0016	327	ccd	50mm+G1	
V 758	Cen	p	54979.369	0.006	-0.0055	297	ccd	50mm+G1	
V1109	Cen	p	54987.391	0.015	-0.0030	452	ccd	50mm+G1	
GSC 07740-01289	Cen	max	55007.309	0.002	+0.0017	497	ccd	Tak+STE	
GSC 07744-00868	Cen	max	55001.335	0.007	+0.0007	532	ccd	Tak+STE	
GSC 07794-00682	Cen	max	55002.345	0.002	+0.0023	510	V	AK2+G2	
GSC 07291-01443	Cen	p	54986.328	0.007	-0.0013	346	ccd	50mm+G1	
GSC 07291-01443	Cen	p	54996.321	0.004	-0.0021	323	ccd	50mm+G1	
GSC 07755-00324	Cen	p	54987.395	0.005	+0.0035	352	ccd	50mm+G1	
GSC 07229-00714	Cen	s	54988.343	0.010	+0.0058	356	ccd	50mm+G1	
RS	Cep	p	53928.447	0.020	+0.0000	0	V	Tarot	
RS	Cep	p	53940.855	0.020	-0.0012	0	I	Tarot	
XX	Cep	s	54718.498	0.017	+0.0086	601	ccd	50mm+G1	
XX	Cep	p	54759.398	0.004	+0.0055	366	ccd	50mm+G1	
AI	Cep	p	54830.346	0.040	+0.0052	432	ccd	50mm+G1	
BB	Cep	p	54011.984	0.020	-0.0384	0	I	Tarot	
BB	Cep	p	54011.986	0.020	-0.0364	0	V	Tarot	

BU	Cep	p	55083.346	0.002	+0.0047	361	ccd	28cm+G2
EX	Cep	p	53921.300	0.010	+0.0727	0	V	Tarot
EX	Cep	p	53921.320	0.010	+0.0927	0	I	Tarot
IO	Cep	p	54759.560	0.003	+0.0032	153	ccd	50mm+G1
KL	Cep	p	54183.666	0.100	-4.6340	0	VI	Tarot
V 731	Cep	s	54718.326	0.020	+0.0511	530	ccd	50mm+G1
TY	Cet	max	54835.353	0.020	+0.0016	0	ccd	50mm+G1
UU	Cet	max	55075.575	0.010	+0.0030	324	ccd	28cm+G2
WZ	Cet	p	54067.320	0.010	+0.0062	417	ccd	28cm+Cryo
GSC 05850-00661	Cet	max	55007.624	0.003	+0.0043	321	ccd	Tak+STE
GSC 05270-00645	Cet	p	55008.616	0.004	-0.0001	542	ccd	Tak+STE
RT	Cha	p	54988.317	0.002	+0.0108	166	ccd	50cm+ST7
RZ	Cha	p	54984.462	0.010	+0.0064	1202	ccd	50mm+G1
TU	Cha	p	54280.266	0.004	+0.0002	198	ccd	50cm+ST7
TX	Cha	p	54986.302	0.002	+0.0073	225	ccd	50cm+ST7
RafV134	Cha	p	54986.301	0.008	-0.1190	224	ccd	50cm+ST7
S	Cir	p	54987.421	0.010	-0.0250	614	V	AK2+G2
CL	Cir	s	54998.438	0.010	+0.3466	1235	ccd	50mm+G1
S	Com	max	54994.335	0.003	-0.0014	310	ccd	Tak+STE
S	Com	max	54997.270	0.003	+0.0006	489	ccd	Tak+STE
NSV 05740	Com	p	54996.386	0.003	-0.0005	182	ccd	Tak+STE
NSV 05740	Com	p	54997.401	0.005	0.0000	239	ccd	Tak+STE
GSC 01457-00435	Com	p	54989.386	0.010	+0.1216	484	ccd	Tak+G1
Y	Crv	max	54987.370	0.010	+0.0132	530	ccd	Tak+STE
Z	Crv	p	55003.287	0.001	+0.0054	454	ccd	AK2+G2
Z	Crt	p	54983.314	0.010	+0.0023	528	ccd	50mm+G1
TW	Crt	p	54981.315	0.010	-0.0035	761	ccd	50mm+G1
GSC 05503-00926	Crt	max	54997.392	0.010	+0.0030	345	ccd	50cm+ST7
VZ	Cru	p	54989.346	0.001	-0.0048	597	V	AK2+G2
VZ	Cru	s	54994.413	0.003	-0.0041	516	ccd	Tak+STE
RafV080	Cru	p	54989.272	0.010	-0.0060	597	V	AK2+G2
ZZ	Del	max	55056.408	0.006	+0.0047	338	ccd	28cm+G2
CE	Del	s	55074.514	0.008	+0.0119	194	ccd	28cm+G2
CE	Del	p	55075.409	0.010	+0.0114	147	ccd	28cm+G2
EG	Del	max	55038.571	0.007	-0.0089	380	ccd	28cm+G2
ET	Del	p	55056.586	0.009	+0.0067	405	ccd	28cm+G2
EW	Del	s	55006.665	0.003	+0.0502	185	ccd	AK2+G2
EX	Del	p	54658.437	0.003	-0.0015	81	ccd	28cm+Cryo
EX	Del	p	55060.586	0.003	-0.0026	282	ccd	28cm+G2
EX	Del	p	55062.570	0.006	-0.0046	295	ccd	28cm+G2
FZ	Del	p	55059.550	0.001	+0.0025	327	V	28cm+G2
GG	Del	p	54646.451	0.008	+0.0005	191	ccd	28cm+Cryo
RafV138	Del	s	55074.492	0.010	-0.0015	377	ccd	28cm+G2
RafV138	Del	p	55075.396	0.010	0.0000	298	ccd	28cm+G2
RafV138	Del	s	55083.531	0.010	0.0000	288	ccd	28cm+G2
GSC 03900-00615	Dra	p	54945.421	0.005	+0.0105	634	ccd	50mm+G1
GSC 04391-00491	Dra	p	54931.452	0.010	+0.0677	430	ccd	50mm+G1
GSC 04391-00491	Dra	p	54935.411	0.005	+0.0721	482	ccd	50mm+G1
X	Equ	max	54997.480	0.005	-0.0021	177	ccd	AK2+G2
RT	Equ	max	52824.390	0.010	-0.1779	0	R	50cm+ST7
RT	Equ	max	54406.297	0.008	-0.0935	106	ccd	28cm+Cryo
RT	Equ	max	55001.554	0.003	-0.0217	550	ccd	AK2+G2
RT	Equ	max	55059.403	0.005	-0.0008	333	ccd	280mm+G2
RZ	Equ	p	55084.357	0.003	-0.0076	365	ccd	280mm+G2
ZZ	Eri	p	54489.352	0.007	+0.0042	89	ccd	28cm+Cryo
RafV132	Gem	p	54866.2925	0.005	-0.0071	0	ccd	4)
AV	Hya	p	54092.629	0.005	-0.0012	262	ccd	28cm+Cryo
GSC 06686-00470	Hya	p	54993.434	0.003	-0.0004	468	ccd	Tak+STE
RS	Ind	p	55001.485	0.008	+0.1196	116	ccd	50mm+G1
AO	Ind	max	52117.889	0.007	0.0000	0	V	Asas
NSV 14186	Ind	max	55007.679	0.006	0.0287	0	ccd	AK2+G2
XY	Leo	s	54823.599	0.004	-0.0090	330	ccd	50mm+G1
XY	Leo	p	54828.573	0.004	-0.0069	371	ccd	50mm+G1

XZ	Leo	s	54828.638	0.004	+0.0080	280	ccd	50mm+G1	
AP	Leo	p	54835.719	0.006	+0.0051	0	ccd	50mm+G1	
EH	Lib	max	55007.465	0.001	+0.0035	368	ccd	Tak+STE	
SX	Lup	p	54987.613	0.003	+0.0031	392	ccd	Tak+STE	
SX	Lup	p	54987.614	0.007	+0.0041	395	ccd	50mm+G1	
DE	Lyn	p	54512.4141	0.0002	-0.0031	0	V	ST7	3)
GSC 08722-00769	Nor	max	55001.301	0.008	-0.0032	484	ccd	AK2+G2	
Y	Oct	max	54263.532	0.003	-0.0035	150	ccd	Tak+STE	
SW	Oph	p	54991.375	0.010	+0.0211	465	ccd	Tak+STE	
VY	Oph	max	54992.320	0.008	+0.1566	1607	ccd	AK2+G2	
VY	Oph	max	54993.320	0.005	+0.1613	850	ccd	AK2+G2	
XZ	Oph	max	54997.327	0.005	+0.0030	308	ccd	AK2+G2	
V 408	Oph	max	55004.541	0.004	-0.0985	129	ccd	AK2+G2	
V 413	Oph	p	54996.445	0.002	0	0	ccd	50cm+ST7	
V 413	Oph	max	54996.506	0.003	-0.1722	0	ccd	50cm+ST7	
V 415	Oph	p	55007.473	0.003	+0.0152	391	ccd	AK2+G2	
V 441	Oph	p	54984.535	0.002	+0.0116	534	ccd	AK2+G2	
V 448	Oph	p	49098.609	0.010	-0.0195	0	ccd	28cm+Cryo	
V 448	Oph	p	49888.387	0.010	+0.0096	0	ccd	28cm+Cryo	
V 448	Oph	p	50281.404	0.010	-0.0282	0	ccd	28cm+Cryo	
V 448	Oph	p	54994.466	0.002	+0.0160	311	ccd	AK2+G2	
V 487	Oph	p	53931.230	0.010	-0.1405	0	ccd	50cm+ST7	
V 496	Oph	p	50683.360	0.010	-0.0073	120	ccd	28cm+Cryo	
V 496	Oph	p	51685.380	0.010	+0.0025	183	ccd	28cm+Cryo	
V 496	Oph	p	55000.529	0.003	+0.0178	849	ccd	AK2+G2	
V 509	Oph	p	54996.534	0.003	+0.0050	784	ccd	AK2+G2	
V 511	Oph	p	55008.462	0.002	-0.0054	353	ccd	AK2+G2	
V 511	Oph	p	55041.502	0.004	-0.0021	481	ccd	28cm+G2	
V 524	Oph	p	55009.467	0.002	-0.0956	1103	ccd	AK2+G2	
V 528	Oph	p	54985.471	0.005	+0.0353	695	ccd	AK2+G2	
V 528	Oph	s	54993.588	0.005	+0.0356	497	ccd	50cm+ST7	
V 573	Oph	p	55003.635	0.010	+0.0070	571	ccd	AK2+G2	
V1016	Oph	p	54983.596	0.003	+0.0116	547	ccd	50cm+ST7	
V2203	Oph	p	55003.481	0.003	-0.0058	521	ccd	Tak+STE	
V2388	Oph	s	54365.3269	0.0002	+0.0002	0	ccd	G2	2)
V2425	Oph	p	55006.303	0.009	-0.0039	443	ccd	Tak+STE	
V2612	Oph	p	54983.540	0.008	-0.0400	900	ccd	Tak+STE	
RafV135	Oph	p	55000.421	0.007	0.0000	844	ccd	AK2+G2	
RafV136	Oph	p	54994.478	0.007	0.0000	0	ccd	AK2+G2	
EG	Ori	p	54025.545	0.007	-0.0022	180	ccd	28cm+Cryo	
FO	Ori	p	54456.493	0.005	+0.0038	381	ccd	28cm+Cryo	
SS	Pav	max	51963.880	0.010	0.0000	0	V	Asas	
ZZ	Peg	p	55048.468	0.008	+0.0218	330	V	28cm+G2	
CC	Peg	p	55084.591	0.010	-0.0017	395	ccd	28cm+G2	
SvkV001	Peg	s	55008.580	0.006	+0.0060	374	ccd	AK2+G2	
GSC 02751-01007	Peg	p	54452.364	0.001	-0.0017	88	ccd	28cm+Cryo	
GSC 03695-01845	Per	s	54274.630	0.020	-0.6125	64	V	Tarot	
GSC 03695-01845	Per	p	54277.545	0.020	0.0000	68	I	Tarot	
YY	Sgr	p	54993.561	0.007	-0.0111	484	ccd	Tak+STE	
ZZ	Sgr	p	55009.428	0.008	-0.0223	1007	ccd	Tak+STE	
V1288	Sco	p	54999.325	0.012	-0.0012	711	ccd	50mm+G1	
EZ	Sct	p	54997.574	0.008	-0.0073	506	ccd	Tak+STE	
OU	Ser	s	55008.493	0.015	+0.0205	418	ccd	50mm+G1	
RZ	Tau	s	54808.448	0.001	+0.0029	179	ccd	50mm+G1	
TY	Tau	p	54084.303	0.004	+0.0003	217	ccd	28cm+Cryo	
WY	Tau	p	54808.557	0.005	-0.0038	350	ccd	50mm+G1	
AH	Tau	p	54388.585	0.005	+0.0013	166	ccd	28cm+Cryo	
CT	Tau	p	54808.616	0.002	-0.0022	369	ccd	50mm+G1	
RW	Tri	p	54449.432	0.001	+0.0017	10	ccd	28cm+Cryo	
NSV 00001	Tuc	p	55004.522	0.002	-0.0042	140	ccd	Tak+STE	
NSV 00001	Tuc	s	55004.686	0.003	-0.0032	90	ccd	Tak+STE	
RafV115	Tuc	s	55004.496	0.007	+0.0068	200	ccd	Tak+STE	
RafV115	Tuc	p	55004.670	0.010	+0.0116	170	ccd	Tak+STE	

UX	UMa	p	54505.659	0.002	-0.0003	39	ccd	28cm+Cryo
FM	Vel	p	54994.298	0.002	+0.0455	153	ccd	50cm+ST7
GR	Vir	p	55004.375	0.009	+0.0144	335	ccd	50mm+G1
MS	Vir	p	54992.330	0.008	-0.0007	432	ccd	50mm+G1
MS	Vir	p	54997.330	0.008	+0.0003	432	ccd	50mm+G1
NN	Vir	p	55000.359	0.010	+0.0001	609	ccd	50mm+G1
PY	Vir	p	54998.282	0.005	-0.0080	360	ccd	50mm+G1
PY	Vir	s	54998.439	0.005	-0.0070	360	ccd	50mm+G1
GSC 00282-00743	Vir	max	54991.379	0.004	-0.0010	166	ccd	50cm+ST7
GSC 00285-01075	Vir	s	54989.319	0.002	+0.0038	341	ccd	50cm+ST7
GSC 00289-00144	Vir	p	55007.240	0.002	0.0000	341	ccd	AK2+G2

Remarks

01) observed by Roland Boninsegna

02) observed by Petr Svoboda

03) observed by F. van den Abbeel

04) observed by Thomas Sauer

NW Aps the observation is not very reliable

RafV133 Aps in 5 arcmin distance from the lost star UV Aps.

CU CVn should be an EW star, but the lightcurve is not EW like.
The star needs a closer study.

BL CMi the visual minimum used as the base of the elements
was not published yet.

SV Cen continues to change its period dramatically

KL Cep a more detailed study was planed, but not yet completed

RT Equ shows confusing changes of its period

RafV135 Oph was used as a comparison star to V 496 Oph in the past

References

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- RafV catalog <http://var.astro.cz/newrafv.php?lang=en>
- ESO Online Digitised Sky Survey <http://arch-http.hq.eso.org/dss/dss>

- This research has made use of the SIMBAD database operated at CDS, Strasbourg, France.