

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 0155.

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
50mm+G1	= 50/135 mm teleobjective, G1 camera, Eggerberg
50mm+G1	= 50/135 mm teleobjective, G1 camera, Cha das Caldeiras, Fogo, Cabo Verde
50mm+ST7	= 50/135 mm teleobjective, SBIG ST-7 camera, Ca del Monte, Italy, remote
Asas	= All Sky Automated Survey
Catalina	= Catalina Sky Survey
Tarot	= Tarot Calern (Nord)

The Moravian instruments G1 camera uses a Sony ICX 424AL chip.

The Moravian instruments G2 camera uses a KAF 402 chip.

Some observations were made with two remote telescopes on different sites simultaneously.

Coordinates

All Coordinates are J2000.

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

Most stars in this table have identifiers from the Guide Star Catalog 1.2

The definition domain of the names "V01" until "V09" is this paper, their purpose is the reference between the tables only. They should not be used elsewhere.

GSC 0529.0285	Aqr	21:26:06,20	+00:22:42,7
GSC 0547.0107	Aqr	21:40:49,27	+03:19:58,4
GSC 5189.0487	Aqr	20:42:59,48	-06:59:34,9
GSC 5190.0469	Aqr	20:46:08,24	-07:05:26,8
GSC 5193.1002	Aqr	21:10:34,05	-01:48:23,9
GSC 5193.1064	Aqr	21:08:18,56	-01:41:07,6
GSC 5741.2209	Aqr	20:25:27,81	-08:30:50,7
GSC 5745.0709	Aqr	20:21:37,88	-09:42:28,1
GSC 5754.0922	Aqr	20:32:27,89	-08:43:06,1
GSC 5755.0293	Aqr	20:34:06,75	-08:16:08,1
GSC 5756.1773	Aqr	20:40:54,85	-07:48:11,2
GSC 5763.2181	Aqr	20:39:52,51	-13:02:33,1
GSC 5763.2269	Aqr	20:40:39,16	-13:01:49,5
GSC 5784.0573	Aqr	21:11:37,83	-13:59:47,0
GSC 5835.0814	Aqr	23:31:20,96	-14:58:14,2
GSC 6405.0989	Aqr	23:53:22,93	-15:25:28,0
V01	Aqr	20:25:28,95	-08:52:53,5
V02	Aqr	20:25:41,07	-09:24:40,7
V03	Aqr	20:43:40,17	+13:47:05,2

GSC 0900.0421	Boo	13:51:18,24	+08:12:09,0
GSC 0906.0165	Boo	13:56:42,42	+12:54:42,1
GSC 0907.0469	Boo	13:58:36,21	+13:26:10,0
GSC 0912.0792	Boo	14:20:44,19	+11:21:09,6
GSC 1467.1309	Boo	13:52:56,97	+16:51:15,0
GSC 1470.0582	Boo	13:59:53,51	+17:53:57,5
GSC 1472.0254	Boo	14:14:54,60	+19:58:57,4
GSC 1477.0516	Boo	14:39:35,50	+15:44:21,6
GSC 1478.0669	Boo	14:55:41,50	+15:49:03,0
GSC 1484.0525	Boo	14:54:04,20	+20:43:06,0
GSC 1998.0030	Boo	13:45:33,06	+23:41:18,4
GSC 2001.1003	Boo	13:36:59,36	+26:52:47,4
GSC 2006.0128	Boo	14:08:03,90	+23:03:42,6
GSC 2569.0553	Boo	15:17:24,23	+35:03:56,7
GSC 2569.1178	Boo	15:20:31,90	+35:57:02,2
GSC 2570.1443	Boo	15:27:48,59	+35:36:58,1
GSC 3036.0098	Boo	14:36:31,67	+38:43:34,7
GSC 3039.0709	Boo	14:33:03,44	+40:28:45,7
GSC 3039.0747	Boo	14:29:10,07	+41:07:03,5
GSC 3043.0463	Boo	14:50:07,62	+38:14:53,8
GSC 3046.0455	Boo	14:44:06,57	+40:34:22,1
GSC 3048.0424	Boo	15:07:01,50	+41:22:53,0
GSC 3049.0869	Boo	14:43:51,22	+44:44:43,4
GSC 3475.0348	Boo	14:24:06,18	+48:51:15,4
GSC 3483.0746	Boo	15:44:36,05	+46:19:22,7
GSC 3489.0868	Boo	15:41:36,99	+51:59:25,5
GSC 3860.0653	Boo	14:43:39,06	+53:47:36,9
V01	Boo	14:20:11,40	+49:51:56,9
V02	Boo	14:47:24,42	+41:39:03,9
V03	Boo	14:03:45,00	+28:27:02,1
V04	Boo	14:06:02,94	+28:11:41,6
V05	Boo	14:06:33,12	+28:30:25,4
V06	Boo	14:35:47,87	+37:33:38,5
V07	Boo	14:15:09,20	+33:52:22,0
V08	Boo	14:13:40,50	+32:56:48,0
V09	Boo	14:05:33,33	+11:46:39,1
GSC 8630.1885	Cen	11:44:06,00	-53:41:12,0
GSC 8963.2105	Cen	11:22:29,00	-63:13:42,0
GSC 5846.0193	Cet	00:23:28,00	-20:41:48,0
GSC 2040.1409	CrB	15:57:33,60	+28:32:23,0
GSC 4391.0491	Dra	11:11:28,62	+73:06:53,7
GSC 7552.0260	For	02:31:52,00	-38:37:24,0
GSC 1511.0479	Her	16:01:56,04	+20:28:21,6
V01	Her	16:35:59,95	+43:17:10,3
GSC 5013.0182	Lib	15:08:22,80	-05:42:36,9
GSC 1606.1750	Sge	19:38:32,70	+17:06:33,2

Elements

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.

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 April 2014.

The last column shows the date when the elements were inserted into the database.

DU	And	max	36051,450	0,6068440	2013-05-13
SX	Aqr	max	39796,326	0,5357101	2007-04-28
QS	Aqr	p	52445,749	5,7826100	2007-10-11
GSC 0529.0285	Aqr	p	54333,645	0,4129880	2013-02-16
GSC 0547.0107	Aqr	p	56191,746	0,2845810	2013-06-23
GSC 5189.0487	Aqr	p	53208,398	0,3418960	2013-05-09
GSC 5193.1002	Aqr	p	53198,483	0,3811330	2013-05-05
GSC 5193.1064	Aqr	max	53198,483	0,2755360	2013-05-05
GSC 5741.2209	Aqr	max	53229,541	0,6064920	2013-05-06
GSC 5745.0709	Aqr	p	53231,354	1,2298300	2013-05-07
GSC 5754.0922	Aqr	p	53223,398	0,7163030	2013-05-08
GSC 5755.0293	Aqr	max	53221,435	0,0590187	2013-05-07
GSC 5756.1773	Aqr	max	53212,555	0,5454600	2013-05-07
GSC 5763.2181	Aqr	p	53223,724	0,3111930	2013-05-12
GSC 5763.2269	Aqr	max	53223,569	0,3859640	2013-05-12
GSC 5784.0573	Aqr	p	53268,580	0,3173630	2013-10-09
GSC 5835.0814	Aqr	p	56218,743	0,2159380	2012-10-26
GSC 6405.0989	Aqr	max	53230,636	1,0547350	2013-05-05
V01	Aqr	max	53229,541	0,4699910	2013-05-06
V02	Aqr	max	53229,541	0,6067240	2013-05-05
V03	Aqr	max	53224,566	0,5755430	2013-05-05
OO	Aql	p	26892,069	0,5067920	2013-06-06
V1454	Aql	p	51010,498	1,0496530	2013-08-03
V1687	Aql	p	52464,558	0,5878039	2003-01-29
BO	Ari	p	51479,658	0,3181950	2013-08-13
CI	Ari	max	51437,755	0,4552850	2013-07-24
SV	Boo	max	37812,510	0,5814423	2007-04-16
WW	Boo	max	19483,559	0,4792680	2012-01-27
WZ	Boo	max	39600,588	0,5774990	2014-01-04
AG	Boo	max	35601,500	0,5221370	2013-05-15
AH	Boo	max	37669,540	0,5543320	2006-08-06
AQ	Boo	p	50518,518	0,3331390	2013-10-12
AR	Boo	p	43656,496	0,3448727	2013-10-12
AT	Boo	max	37766,550	0,5151490	2012-11-27
AU	Boo	max	37818,500	0,6513160	2013-05-17
AW	Boo	max	37818,430	0,5270650	2013-05-18
AY	Boo	max	37669,600	0,6143380	2013-05-21
AZ	Boo	max	37668,520	0,4892600	1996-06-01

BB	Boo	max	37823,460	0,4727530	2013-05-21
BC	Boo	max	36692,320	0,5787730	2013-05-21
BD	Boo	max	36692,340	0,5485820	1996-06-01
BE	Boo	max	37669,400	0,3103490	2013-05-28
BF	Boo	max	36669,400	0,8177960	1996-06-01
BG	Boo	max	36664,020	0,3200330	2013-03-05
BI	Boo	max	34146,430	0,5762270	2013-05-31
BM	Boo	max	36715,355	0,5015980	2013-05-31
BN	Boo	max	37131,341	0,5196619	1996-06-01
BO	Boo	max	36669,260	0,5718780	2013-06-02
BQ	Boo	max	37669,480	0,6203230	2013-06-02
BR	Boo	max	37669,600	0,3045600	1996-06-01
BS	Boo	max	37669,620	0,2961490	1996-06-01
BT	Boo	max	37668,550	0,6745600	1996-06-01
BU	Boo	max	48714,943	0,4451780	2013-06-04
CG	Boo	max	50841,660	0,6053200	2002-07-17
CL	Boo	max	54238,835	0,5805010	2013-06-05
CM	Boo	max	44346,441	0,6090730	2012-01-27
CQ	Boo	max	50948,522	0,2818830	2005-08-26
CS	Boo	max	50088,662	0,5533860	1996-06-01
CU	Boo	max	51274,488	0,2961630	2012-01-27
CZ	Boo	max	53537,800	0,7795260	2013-06-09
DD	Boo	max	49851,448	0,3393420	2005-08-28
DF	Boo	max	51328,750	0,6221370	2013-06-10
DN	Boo	p	54899,854	0,4475640	2011-05-25
EM	Boo	p	51317,926	2,4462500	2011-09-11
FU	Boo	max	51432,740	0,6535700	2004-11-27
GG	Boo	p	51259,865	0,4269690	2009-07-02
GH	Boo	p	51259,863	0,6595100	2009-07-02
GI	Boo	p	51286,712	1,0335330	2011-08-06
GM	Boo	p	52001,400	0,3611190	2013-06-17
GN	Boo	p	51996,414	0,3016025	2013-06-09
GQ	Boo	p	52022,527	0,3846402	2013-06-20
GR	Boo	p	51996,584	0,3766700	200-06-06
GS	Boo	p	51221,853	1,2568150	2012-07-21
GT	Boo	p	51223,857	0,5689220	2006-11-20
GU	Boo	p	51275,875	0,4887300	2009-07-03
GV	Boo	p	52308,440	0,3678730	2012-01-22
HH	Boo	p	52764,512	0,3186660	2009-02-12
HQ	Boo	max	51427,410	0,6193020	2013-06-30
HR	Boo	p	51417,502	0,3159670	2013-06-30
HU	Boo	max	51408,102	0,3372770	2013-06-30
HZ	Boo	max	51601,000	0,4547910	2013-07-01
II	Boo	max	51359,810	0,5362240	2013-07-01
IK	Boo	p	53382,626	0,3031180	2009-02-12
IL	Boo	p	51438,735	0,3474070	2012-07-21

IM	Boo	max	51423,007	0,6157670	2006-06-15
IN	Boo	p	51332,700	0,2857590	2013-07-03
IP	Boo	max	51395,565	0,3810440	2013-07-04
IQ	Boo	max	51597,830	0,5352280	2013-07-04
IS	Boo	p	51421,597	0,2514500	2007-09-03
IW	Boo	p	51399,964	0,2647420	2013-07-07
IX	Boo	p	53506,813	0,4308300	2013-10-13
IY	Boo	max	51615,700	0,5917360	2013-07-08
KK	Boo	p	51394,744	0,2791300	2009-03-27
KM	Boo	p	51425,818	0,3586600	2009-03-28
KR	Boo	max	51364,740	0,5121390	2013-07-11
KU	Boo	max	51567,830	0,5706360	2006-02-14
KW	Boo	max	51374,001	0,3488700	2013-12-26
KX	Boo	max	51631,760	0,6171200	2006-02-14
LN	Boo	max	51287,870	0,4667380	2013-07-13
LQ	Boo	max	51330,750	0,5643330	2013-07-14
LS	Boo	max	51295,890	0,5527070	2013-07-15
LT	Boo	max	51390,730	0,5222690	2013-07-16
LV	Boo	max	51286,670	0,5162000	2013-07-17
LW	Boo	max	51573,870	0,5634290	2014-03-18
LY	Boo	p	51246,298	0,4144430	2013-07-17
LZ	Boo	max	51615,830	0,6117550	2013-07-18
MM	Boo	max	51410,720	0,4950610	2013-07-19
MO	Boo	max	51409,840	0,4999580	2013-07-20
MQ	Boo	p	51352,765	0,4934080	2013-03-06
MR	Boo	p	51408,908	0,8668970	2013-07-22
MT	Boo	p	51411,847	0,3653330	2012-07-24
MU	Boo	max	54630,605	0,3203740	2013-07-24
MW	Boo	p	51408,507	0,3641400	2006-06-15
MY	Boo	p	51387,900	0,4733780	2012-07-28
MZ	Boo	max	51325,754	0,5007570	2013-07-26
NR	Boo	p	53859,752	0,3567310	2011-08-07
NV	Boo	max	53151,420	0,3488412	2005-09-03
NW	Boo	p	52820,526	1,0118556	2005-09-03
NX	Boo	p	51578,837	0,2511350	2012-07-27
OP	Boo	p	51372,668	0,3114450	2007-09-03
OR	Boo	max	51334,720	0,4794900	2006-02-14
OS	Boo	p	51382,777	0,2757270	2013-08-04
OU	Boo	max	51376,611	0,5057550	2013-08-06
OW	Boo	max	51620,880	0,3572600	2013-08-07
OX	Boo	max	51332,750	0,5109600	2013-08-07
OY	Boo	max	51339,910	0,5560250	2013-08-07
PQ	Boo	max	51381,093	0,2644660	2013-08-08
PR	Boo	p	51349,604	0,3712810	2013-08-08
PV	Boo	p	51219,519	0,2925880	2013-08-10
PW	Boo	max	51573,840	0,5952120	2013-08-10

PX	Boo	max	51356,700	0,5577600	2006-02-14
PY	Boo	p	51403,125	0,2780490	2012-07-28
PZ	Boo	p	51400,538	0,6226720	2013-08-13
QQ	Boo	p	51415,776	0,2764770	2012-07-29
QR	Boo	max	51387,870	0,5706070	2013-08-15
QS	Boo	max	51399,880	0,5085530	2006-06-15
QV	Boo	p	51396,810	0,3248000	2006-06-15
QW	Boo	p	51391,919	0,2908710	2013-10-14
QX	Boo	p	51395,970	0,3604680	2012-07-28
QY	Boo	p	51404,765	0,3418830	2013-08-19
V 336	Boo	max	51388,951	0,1128920	2006-06-15
V 338	Boo	max	51336,880	0,4940470	2013-08-21
V 340	Boo	max	51387,830	0,7107300	2006-06-15
GSC 0900.0421	Boo	p	53833,742	1,8869370	2011-08-02
GSC 0906.0165	Boo	max	53090,479	0,3522920	2013-09-06
GSC 0907.0469	Boo	p	53090,479	0,3863912	2007-08-29
GSC 0912.0792	Boo	p	53448,017	0,2864820	2009-08-07
GSC 1467.1309	Boo	p	54543,813	0,3978080	2010-08-04
GSC 1470.0582	Boo	p	53762,875	0,2993600	2010-08-04
GSC 1472.0254	Boo	p	53448,500	0,3308240	2007-08-29
GSC 1477.0516	Boo	p	53462,717	0,4446760	2011-08-02
GSC 1478.0669	Boo	p	54204,822	0,4279860	2011-08-02
GSC 1484.0525	Boo	p	53093,776	0,3321500	2009-08-08
GSC 1998.0030	Boo	max	51260,354	0,2213520	2004-01-22
GSC 2001.1003	Boo	p	51288,213	0,3678680	2013-09-12
GSC 2006.0128	Boo	p	54256,506	0,3974160	2013-09-13
GSC 2569.0553	Boo	p	52726,585	0,2955690	2011-01-16
GSC 2569.1178	Boo	p	56071,782	0,3000810	2013-10-07
GSC 2570.1443	Boo	p	53099,402	0,2556720	2013-09-20
GSC 3036.0098	Boo	p	51345,672	0,4266700	2011-06-21
GSC 3039.0709	Boo	p	51400,661	0,3257180	2012-07-18
GSC 3039.0747	Boo	p	51415,777	0,2958210	2011-06-28
GSC 3043.0463	Boo	max	56015,506	0,1040201	2013-09-23
GSC 3046.0455	Boo	p	53093,329	0,3617340	2013-09-26
GSC 3048.0424	Boo	max	51443,620	0,5057590	2013-09-26
GSC 3049.0869	Boo	p	54261,878	1,0995300	2013-10-03
GSC 3475.0348	Boo	p	51421,633	0,2536910	2012-07-20
GSC 3483.0746	Boo	max	55682,569	0,1128917	2013-09-29
GSC 3489.0868	Boo	max	54208,837	0,0866496	2013-09-30
GSC 3860.0653	Boo	p	51400,639	0,3316800	2012-04-07
V01	Boo	max	51288,850	0,5062600	2013-10-04
V02	Boo	p	53093,329	0,3283940	2013-10-06
V03	Boo	max	55309,349	0,5102650	2013-10-09
V04	Boo	p	55309,358	0,8564600	2011-07-17
V05	Boo	max	55257,414	0,5774300	2011-07-17
V06	Boo	p	54148,704	0,1256311	2009-03-23

V07	Boo	p	55268,527	0,4781120	2013-10-22
V08	Boo	p	55268,882	0,4692020	2010-09-09
V09	Boo	p	54450,001	0,2251230	2012-10-26
AO	Cam	p	44559,960	0,3299037	2014-01-12
AT	Cam	p	26057,483	1,3958940	2011-08-08
DN	Cam	p	52568,688	0,4983100	2013-12-19
TX	CMa	p	42363,504	2,3974140	2013-12-15
FF	CMa	p	28848,465	1,2133742	2006-04-01
FZ	CMa	p	41742,317	1,2730370	2013-12-18
GU	CMa	p	47078,155	1,6101300	2013-03-10
IS	CMa	p	48500,359	0,6169840	2013-12-15
SX	CMi	p	25247,810	3,4316550	2012-01-24
AB	CMi	p	30349,520	4,0712520	2014-01-25
AD	CMi	max	42429,458	0,1229745	2014-01-26
TZ	Cap	max	51982,555	0,5410080	2004-04-03
TV	Cas	p	32827,760	1,8125997	2009-04-25
GSC 8630.1885	Cen	p	52679,735	4,2670600	2013-10-06
GSC 8963.2105	Cen	p	51870,230	3,9015060	2013-09-21
EK	Cep	p	39002,729	4,4277940	2011-08-16
V 441	Cep	p	48500,930	1,6490520	2013-10-18
WY	Cet	p	48501,200	1,9397200	2013-12-18
GSC 5846.0193	Cet	p	51868,610	0,4146960	2013-12-19
RV	CrB	max	50210,502	0,3316190	2013-09-14
GSC 2040.1409	CrB	max	55348,114	0,3151060	2013-06-19
BT	Del	p	25881,422	3,5425980	2013-09-25
DM	Del	p	29380,001	0,8446728	2013-07-07
FZ	Del	p	31324,323	0,7832115	2008-02-27
PP	Del	p	54748,577	1,0207620	2013-06-12
GSC 4391.0491	Dra	p	51319,120	0,4394030	2012-03-13
S	Equ	p	39301,538	3,4361060	2013-07-25
W	Equ	p	25070,400	4,2368660	2006-11-07
RZ	Equ	p	37161,373	1,9609400	2007-11-05
UZ	Equ	p	52816,827	0,4867070	2004-11-12
SV	Eri	max	47176,865	0,7138770	2013-03-15
BU	Eri	p	32244,330	0,8430936	2011-12-01
BV	Eri	p	46032,227	0,5076545	2013-12-14
BW	Eri	p	43448,684	0,6384855	2006-11-12
GSC 7552.0260	For	p	51869,090	0,5887390	2013-12-12
TX	Her	p	40008,362	2,0598094	2013-07-01
GSC 1511.0479	Her	p	55949,488	0,2265293	2012-10-26
V01	Her	p	52795,927	0,5310240	2013-07-04
WY	Leo	p	26024,520	4,9858710	2014-02-24
RS	Lep	p	27386,528	1,2885430	2013-12-11
AL	Lep	p	51868,910	0,4486420	2013-12-11
GSC 5013.0182	Lib	p	54235,365	0,2300620	2014-02-06
V 423	Oph	p	27236,459	1,2037875	1999-11-14

V 839	Oph	p	39313,469	0,4090015	2013-07-31
FR	Ori	p	27862,159	0,8831630	2007-05-22
V1385	Ori	p	48501,018	2,2379550	2013-12-15
AT	Peg	p	45640,437	1,1460810	2013-08-02
GP	Peg	p	41238,328	0,9756146	2007-07-19
OO	Peg	p	48500,640	2,9846580	2013-11-08
SZ	Psc	p	43498,497	3,9656650	2012-02-01
GSC 1606.1750	Sge	p	54392,535	1,4749130	2013-08-02
EG	Ser	p	26487,525	9,9472640	2013-07-16
GR	Tau	p	44573,107	0,4298510	2004-12-17
AG	Vir	p	45432,415	0,6426505	2009-08-23
GR	Vir	p	45116,356	0,3469730	2012-08-22

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
- 09 Instrument, see list above

DU	And	max	53694,770	0,010	-0,0625	ccd	0	Catalina
DU	And	max	56252,678	0,010	-0,0019	ccd	0	Catalina
SX	Aqr	max	56583,330	0,008	-0,0077	ccd	57	10cm+G1
QS	Aqr	p	56522,490	0,008	+0,0010	ccd	156	50mm+ST7
QS	Aqr	p	56522,492	0,006	+0,0030	ccd	263	50mm+ST7
G0529.0285	Aqr	p	54736,720	0,010	-0,0013	ccd	0	Catalina
G0547.0107	Aqr	s	53907,840	0,010	-0,0009	ccd	0	Catalina
G0547.0107	Aqr	p	56191,746	0,010	+0,0000	ccd	0	Catalina
G5189.0487	Aqr	s	53881,898	0,007	+0,1358	ccd	0	Catalina
G5189.0487	Aqr	p	55834,638	0,007	+0,1369	ccd	0	Catalina
G5190.0469	Aqr	p	53706,563	0,010	+0,0060	ccd	0	Catalina
G5190.0469	Aqr	p	54212,971	0,010	+0,0020	ccd	0	Catalina
G5193.1002	Aqr	s	54624,856	0,010	-0,0177	ccd	0	Catalina
G5193.1002	Aqr	p	55058,778	0,010	-0,0152	ccd	0	Catalina
G5193.1064	Aqr	max	54806,572	0,010	+0,0608	ccd	0	Catalina
G5741.2209	Aqr	max	53525,927	0,010	-0,1890	V	0	Catalina
G5745.0709	Aqr	p	55479,654	0,015	+0,1705	V	0	Catalina
G5754.0922	Aqr	p	54056,609	0,010	+0,1508	ccd	0	Catalina
G5755.0293	Aqr	max	55023,911	0,005	-0,0138	ccd	0	Catalina

G5756.1773	Aqr	max	55478,640	0,010	+0,2444	ccd	0	Catalina
G5763.2181	Aqr	p	56044,988	0,010	-0,0117	ccd	0	Catalina
G5763.2269	Aqr	max	53674,596	0,010	-0,1644	ccd	0	Catalina
G5763.2269	Aqr	max	55715,926	0,010	+0,1880	ccd	0	Catalina
G5784.0573	Aqr	p	53268,580	0,020	+0,0000	V	0	Asas
G5784.0573	Aqr	p	53583,077	0,010	-0,0097	ccd	0	Catalina
G5835.0814	Aqr	p	56218,743	0,015	+0,0000	ccd	0	Catalina
G6405.0989	Aqr	max	55098,757	0,010	+0,1848	ccd	0	Catalina
V01	Aqr	max	54716,744	0,010	+0,1511	ccd	0	Catalina
V02	Aqr	max	56126,755	0,010	+0,1065	ccd	0	Catalina
V03	Aqr	max	55161,571	0,008	-0,2732	ccd	0	Catalina
OO	Aql	s	56499,619	0,004	+0,0016	ccd	61	28cm+G2
V1454	Aql	p	56507,531	0,009	+0,0006	ccd	83	50mm+ST7
V1687	Aql	p	56480,448	0,010	+0,0139	ccd	112	10cm+G1
BO	Ari	s	56516,526	0,007	+0,0003	ccd	168	28cm+G2
CI	Ari	max	53619,936	0,010	-0,0000	ccd	0	Catalina
CI	Ari	max	54157,628	0,010	+0,0004	ccd	0	Catalina
SV	Boo	max	56456,455	0,007	-0,0023	ccd	229	28cm+G2
WW	Boo	max	53470,863	0,010	+0,0138	ccd	0	Catalina
WZ	Boo	max	55649,883	0,010	+0,0203	ccd	0	Catalina
AG	Boo	max	54514,870	0,010	+0,0014	ccd	0	Catalina
AH	Boo	max	56368,846	0,010	+0,0246	ccd	0	Catalina
AQ	Boo	p	55629,876	0,010	+0,0063	ccd	0	Catalina
AR	Boo	p	55577,019	0,010	-0,0019	ccd	0	Catalina
AT	Boo	max	55271,846	0,010	+0,0178	ccd	0	Catalina
AU	Boo	max	53827,867	0,010	+0,0197	ccd	0	Catalina
AU	Boo	max	56061,861	0,010	-0,0002	ccd	0	Catalina
AW	Boo	max	54944,876	0,007	-0,0041	ccd	0	Catalina
AY	Boo	max	54592,795	0,010	+0,0261	ccd	0	Catalina
AZ	Boo	max	55299,800	0,007	-0,1826	ccd	0	Catalina
BB	Boo	max	54231,773	0,007	+0,0019	ccd	0	Catalina
BC	Boo	max	54564,823	0,015	-0,0072	ccd	0	Catalina
BD	Boo	max	55981,998	0,010	-0,1309	ccd	0	Catalina
BE	Boo	max	54537,917	0,010	+0,1178	ccd	0	Catalina
BF	Boo	max	56018,860	0,015	+0,4066	ccd	0	Catalina
BG	Boo	max	54564,830	0,010	+0,0842	ccd	0	Catalina
BG	Boo	p	55636,790	0,010	+0,0937	ccd	0	Catalina
BI	Boo	max	53770,960	0,010	-0,0329	ccd	0	Catalina
BM	Boo	max	54589,788	0,015	-0,0117	ccd	0	Catalina
BN	Boo	max	54564,898	0,010	-0,0604	ccd	0	Catalina
BO	Boo	max	53562,665	0,020	+0,1289	ccd	0	Catalina
BQ	Boo	max	54507,950	0,007	-0,1978	ccd	0	Catalina
BR	Boo	max	54571,813	0,010	+0,0467	ccd	0	Catalina
BR	Boo	max	54965,820	0,010	-0,0470	ccd	0	Catalina
BS	Boo	max	55350,781	0,010	-0,1189	ccd	0	Catalina
BT	Boo	max	55577,012	0,010	+0,2431	ccd	0	Catalina

BU	Boo	max	56061,855	0,015	+0,1395	ccd	0	Catalina
CG	Boo	max	54589,800	0,015	-0,0014	ccd	0	Catalina
CL	Boo	max	54238,835	0,020	+0,0000	ccd	0	Catalina
CM	Boo	max	53885,759	0,015	+0,0167	ccd	0	Catalina
CQ	Boo	max	56367,985	0,020	-0,0196	ccd	0	Catalina
CS	Boo	max	54537,888	0,010	+0,0025	ccd	0	Catalina
CU	Boo	max	54208,855	0,010	-0,0160	ccd	0	Catalina
CZ	Boo	max	53537,800	0,020	+0,0000	ccd	0	Catalina
DD	Boo	max	56012,882	0,010	+0,0013	ccd	0	Catalina
DF	Boo	max	54585,910	0,010	+0,2728	ccd	0	Catalina
DN	Boo	p	54117,958	0,015	-0,0015	ccd	0	Catalina
EM	Boo	s	56473,404	0,010	+0,0062	ccd	0	35mm+ST7
FU	Boo	max	53803,874	0,010	-0,0180	ccd	0	Catalina
GG	Boo	p	56065,828	0,015	+0,0004	ccd	0	Catalina
GH	Boo	p	53479,775	0,020	+0,0010	ccd	0	Catalina
GI	Boo	p	56375,845	0,008	+0,0165	ccd	0	Catalina
GM	Boo	p	53900,880	0,020	-0,0059	ccd	0	Catalina
GN	Boo	p	55280,858	0,020	-0,0071	ccd	0	Catalina
GQ	Boo	p	55339,668	0,010	+0,0037	ccd	0	Catalina
GR	Boo	p	54570,746	0,010	-0,0008	ccd	0	Catalina
GS	Boo	p	54573,785	0,010	+0,0064	ccd	0	Catalina
GT	Boo	p	56374,867	0,010	-0,0102	ccd	0	Catalina
GU	Boo	p	56071,779	0,005	-0,0035	ccd	0	Catalina
GV	Boo	p	56000,040	0,010	-0,0056	ccd	0	Catalina
HH	Boo	p	54943,868	0,008	-0,0008	ccd	0	Catalina
HQ	Boo	max	54214,850	0,010	-0,0383	ccd	0	Catalina
HQ	Boo	max	56304,998	0,010	-0,0346	ccd	0	Catalina
HR	Boo	p	55649,879	0,008	-0,0010	ccd	0	Catalina
HU	Boo	max	54923,880	0,010	+0,0026	ccd	0	Catalina
HZ	Boo	max	55039,680	0,010	+0,0052	ccd	0	Catalina
II	Boo	max	55347,711	0,008	+0,0031	ccd	0	Catalina
IK	Boo	p	55940,033	0,010	+0,0004	ccd	0	Catalina
IL	Boo	p	56065,849	0,009	+0,0002	ccd	0	Catalina
IM	Boo	max	54892,855	0,010	+0,0010	ccd	0	Catalina
IN	Boo	p	55676,807	0,010	-0,0013	ccd	0	Catalina
IP	Boo	max	55043,683	0,012	+0,0027	ccd	0	Catalina
IQ	Boo	max	54596,708	0,010	-0,0045	ccd	0	Catalina
IS	Boo	p	56092,789	0,010	+0,0053	ccd	0	Catalina
IW	Boo	p	56092,778	0,010	-0,0027	ccd	0	Catalina
IX	Boo	p	53506,813	0,015	+0,0000	ccd	0	Catalina
IY	Boo	max	55708,808	0,007	+0,0701	ccd	0	Catalina
KK	Boo	p	54892,858	0,010	+0,0568	ccd	0	Catalina
KM	Boo	p	54920,827	0,010	-0,1327	ccd	0	Catalina
KR	Boo	max	53900,840	0,012	-0,0123	ccd	0	Catalina
KU	Boo	max	54628,840	0,015	+0,1185	ccd	0	Catalina
KW	Boo	p	53551,701	0,010	-0,0344	ccd	0	Catalina

KW	Boo	p	53551,701	0,010	-0,0344	ccd	0	Catalina
KW	Boo	s	53770,965	0,010	-0,0348	ccd	0	Catalina
KW	Boo	s	53770,965	0,010	-0,0348	ccd	0	Catalina
KW	Boo	max	55636,859	0,010	+0,0155	ccd	0	Catalina
KW	Boo	max	55636,859	0,010	+0,0155	ccd	0	Catalina
KX	Boo	max	54974,688	0,010	-0,0110	ccd	0	Catalina
LN	Boo	max	54715,629	0,010	+0,0351	ccd	0	Catalina
LN	Boo	max	56088,735	0,010	-0,0021	ccd	0	Catalina
LQ	Boo	max	54914,834	0,010	+0,0051	ccd	0	Catalina
LS	Boo	max	55042,685	0,012	-0,0058	ccd	0	Catalina
LT	Boo	max	53901,800	0,010	+0,0006	ccd	0	Catalina
LV	Boo	max	55281,883	0,010	-0,1750	ccd	0	Catalina
LW	Boo	max	54242,830	0,010	-0,0032	ccd	0	Catalina
LY	Boo	p	54861,946	0,010	+0,0475	ccd	0	Catalina
LZ	Boo	max	55044,730	0,010	+0,0132	ccd	0	Catalina
MM	Boo	max	53900,885	0,010	+0,0082	ccd	0	Catalina
MO	Boo	max	56018,975	0,010	+0,0222	ccd	0	Catalina
MQ	Boo	p	56192,603	0,010	-0,0011	ccd	0	Catalina
MR	Boo	p	56065,877	0,020	-0,0017	ccd	0	Catalina
MT	Boo	p	53900,888	0,010	+0,0273	ccd	0	Catalina
MU	Boo	max	56367,995	0,010	+0,0019	ccd	0	Catalina
MW	Boo	p	54981,815	0,010	+0,0022	ccd	0	Catalina
MY	Boo	p	55281,892	0,010	-0,0154	ccd	0	Catalina
MZ	Boo	max	56191,611	0,010	+0,0012	ccd	0	Catalina
NR	Boo	p	55946,985	0,007	-0,0001	ccd	0	Catalina
NV	Boo	max	53562,707	0,010	+0,0034	ccd	0	Catalina
NW	Boo	p	56008,885	0,010	+0,0024	ccd	0	Catalina
NX	Boo	s	54640,796	0,010	-0,0049	ccd	0	Catalina
OP	Boo	p	56191,620	0,020	-0,0365	ccd	0	Catalina
OR	Boo	max	53770,050	0,010	+0,0003	ccd	0	Catalina
OS	Boo	p	54178,920	0,010	-0,0045	ccd	0	Catalina
OU	Boo	max	54914,878	0,010	+0,0050	ccd	0	Catalina
OW	Boo	max	54924,849	0,020	+0,0285	ccd	0	Catalina
OW	Boo	max	56088,781	0,020	+0,0074	ccd	0	Catalina
OX	Boo	max	54141,011	0,007	+0,0248	ccd	0	Catalina
OY	Boo	max	54232,905	0,010	-0,0031	ccd	0	Catalina
PQ	Boo	max	54965,936	0,015	+0,0064	ccd	0	Catalina
PR	Boo	p	53552,755	0,010	-0,0305	ccd	0	Catalina
PV	Boo	p	53534,764	0,010	-0,0038	ccd	0	Catalina
PW	Boo	max	53886,836	0,010	+0,0022	ccd	0	Catalina
PW	Boo	max	55330,808	0,010	-0,0101	ccd	0	Catalina
PX	Boo	max	54178,983	0,007	+0,0174	V	0	Catalina
PY	Boo	p	55367,825	0,010	-0,0007	ccd	0	Catalina
PZ	Boo	p	55005,812	0,000	+0,0031	ccd	0	Catalina
QQ	Boo	p	56191,639	0,010	-0,0007	ccd	0	Catalina
QR	Boo	max	54875,992	0,010	+0,0014	ccd	0	Catalina

QR	Boo	max	55303,945	0,010	-0,0008	ccd	0	Catalina
QS	Boo	max	54276,761	0,010	-0,0033	ccd	0	Catalina
QS	Boo	max	56065,858	0,010	+0,0042	ccd	0	Catalina
QV	Boo	p	53552,826	0,010	-0,0064	ccd	0	Catalina
QW	Boo	p	55707,860	0,010	-0,0029	ccd	0	Catalina
QX	Boo	p	56191,633	0,010	-0,0033	ccd	0	Catalina
QY	Boo	p	54943,931	0,015	-0,0068	ccd	0	Catalina
V 336	Boo	max	54955,883	0,005	-0,0036	ccd	0	Catalina
V 338	Boo	max	56064,905	0,010	-0,0048	ccd	0	Catalina
V 340	Boo	max	54979,827	0,010	-0,0324	ccd	0	Catalina
G0900.0421	Boo	p	54233,799	0,010	+0,0264	ccd	0	Catalina
G0906.0165	Boo	max	54569,854	0,010	+0,1013	ccd	0	Catalina
G0907.0469	Boo	p	53817,943	0,005	-0,1102	ccd	0	Catalina
G0912.0792	Boo	p	53481,817	0,010	-0,0049	ccd	0	Catalina
G1467.1309	Boo	s	54117,958	0,010	-0,0015	ccd	0	Catalina
G1467.1309	Boo	p	54556,945	0,010	+0,0043	ccd	0	Catalina
G1470.0582	Boo	p	55299,793	0,010	+0,0038	ccd	0	Catalina
G1472.0254	Boo	p	54592,820	0,010	-0,0007	ccd	0	Catalina
G1472.0254	Boo	s	56368,845	0,010	-0,0044	ccd	0	Catalina
G1477.0516	Boo	p	55339,696	0,010	+0,0016	ccd	0	Catalina
G1478.0669	Boo	p	54623,826	0,010	+0,0057	ccd	0	Catalina
G1484.0525	Boo	p	54347,640	0,010	-0,0023	ccd	0	Catalina
G2001.1003	Boo	s	55274,974	0,020	-0,0085	ccd	0	Catalina
G2006.0128	Boo	p	54999,672	0,010	-0,0019	ccd	0	Catalina
G2006.0128	Boo	p	56298,030	0,010	-0,0020	ccd	0	Catalina
G2569.0553	Boo	p	55280,882	0,010	-0,0098	ccd	0	Catalina
G2569.1178	Boo	p	56071,782	0,010	+0,0000	ccd	0	Catalina
G2570.1443	Boo	s	54548,910	0,010	-0,0246	ccd	0	Catalina
G2570.1443	Boo	p	54640,830	0,010	-0,0188	ccd	0	Catalina
G3036.0098	Boo	p	53480,765	0,010	+0,0363	ccd	0	Catalina
G3039.0709	Boo	p	54584,882	0,008	+0,0018	ccd	0	Catalina
G3039.0747	Boo	p	54976,651	0,010	+0,0766	ccd	0	Catalina
G3043.0463	Boo	max	54979,777	0,005	-0,0004	ccd	0	Catalina
G3046.0455	Boo	p	54862,932	0,010	+0,0004	ccd	0	Catalina
G3048.0424	Boo	max	55659,865	0,005	+0,2380	ccd	0	Catalina
G3049.0869	Boo	p	54261,878	0,010	+0,0000	ccd	0	Catalina
G3475.0348	Boo	p	56375,964	0,007	-0,0005	ccd	0	Catalina
G3483.0746	Boo	max	55281,909	0,008	-0,0074	ccd	0	Catalina
G3489.0868	Boo	max	54208,837	0,004	+0,0000	ccd	0	Catalina
G3489.0868	Boo	max	55636,909	0,004	-0,0001	ccd	0	Catalina
G3860.0653	Boo	p	54865,994	0,010	-0,0376	ccd	0	Catalina
V01	Boo	max	54892,886	0,010	-0,0289	ccd	0	Catalina
V02	Boo	p	54240,735	0,007	-0,0024	ccd	0	Catalina
V03	Boo	max	55657,842	0,010	-0,0180	ccd	0	Catalina
V04	Boo	p	53558,721	0,005	-0,0328	ccd	0	Catalina
V04	Boo	s	55290,939	0,005	-0,0049	ccd	0	Catalina

V05	Boo	max	54533,895	0,010	+0,0012	ccd	0	Catalina
V06	Boo	p	53796,933	0,002	-0,0035	ccd	0	Catalina
V07	Boo	p	53796,897	0,010	-0,0013	ccd	0	Catalina
V08	Boo	p	55340,670	0,010	-0,0001	ccd	0	Catalina
V08	Boo	s	55677,790	0,010	-0,0019	ccd	0	Catalina
V09	Boo	p	54450,001	0,010	+0,0000	ccd	0	Catalina
AO	Cam	s	56670,559	0,007	-0,0009	ccd	195	50mm+G1
AT	Cam	s	56583,595	0,010	+0,0040	ccd	164	10cm+G1
DN	Cam	p	56623,440	0,005	+0,0035	ccd	93	50mm+G1
TX	CMa	p	56630,512	0,009	-0,0027	ccd	90	50mm+G1
FF	CMa	p	56627,674	0,020	+0,0067	ccd	206	50mm+G1
FZ	CMa	p	56304,582	0,005	-0,0052	ccd	139	50mm+G1
FZ	CMa	s	56306,492	0,008	-0,0023	ccd	247	50mm+G1
FZ	CMa	s	56628,582	0,007	+0,0094	ccd	124	50mm+G1
GU	CMa	s	54422,768	0,008	+0,0051	V	0	Asas
GU	CMa	s	56306,616	0,010	+0,0010	ccd	203	50mm+G1
GU	CMa	s	56628,643	0,015	+0,0020	ccd	118	50mm+G1
IS	CMa	p	56621,723	0,008	+0,0036	ccd	586	50mm+G1
SX	CMi	p	56726,385	0,005	+0,0037	ccd	283	28cm+G2
AB	CMi	p	56682,376	0,005	-0,0019	ccd	82	28cm+G2
AD	CMi	max	56682,455	0,005	+0,0028	ccd	91	50mm+ST7
TZ	Cap	max	56539,464	0,006	-0,0014	ccd	0	28cm+G2
TV	Cas	p	56643,502	0,007	-0,0055	ccd	159	50mm+ST7
G8630.1885	Cen	p	52679,735	0,007	+0,0000	ccd	0	Asas
G8630.1885	Cen	s	53829,670	0,010	-0,0381	ccd	0	Asas
G8963.2105	Cen	p	51924,805	0,010	-0,0461	V	0	Asas
G8963.2105	Cen	s	54860,800	0,010	+0,0664	V	0	Asas
EK	Cep	p	56656,345	0,002	+0,0013	ccd	78	50mm+ST7
V 441	Cep	p	56548,300	0,010	-0,0038	ccd	130	50mm+ST7
V 441	Cep	p	56670,333	0,010	-0,0006	ccd	176	50mm+G1
WY	Cet	p	56632,504	0,008	-0,0022	ccd	116	50mm+G1
G5846.0193	Cet	p	56631,402	0,004	+0,0084	ccd	48	50mm+G1
RV	CrB	max	56516,390	0,010	+0,1527	ccd	200	28cm+G2
G2040.1409	CrB	p	56462,494	0,010	+0,0072	ccd	180	28cm+G2
G2040.1409	CrB	p	56480,420	0,010	-0,0279	ccd	118	28cm+G2
BT	Del	p	56560,321	0,010	+0,0003	ccd	0	28cm+G2
DM	Del	p	56480,483	0,007	-0,0001	ccd	97	35mm+ST7
FZ	Del	p	56479,515	0,005	+0,0050	ccd	388	10cm+G1
PP	Del	p	54748,577	0,010	+0,0000	V	0	Asas
G4391.0491	Dra	s	51318,902	0,010	+0,0014	ccd	0	Rotse
G4391.0491	Dra	p	51319,117	0,010	-0,0030	ccd	0	Rotse
G4391.0491	Dra	p	56679,389	0,009	-0,0082	ccd	118	50mm+G1
S	Equ	p	56516,435	0,002	+0,0059	ccd	99	10cm+G1
W	Equ	p	56499,470	0,020	-0,0020	ccd	369	10cm+G1
RZ	Equ	p	56539,382	0,004	-0,0001	ccd	45	10cm+G1
UZ	Equ	p	56470,503	0,010	-0,0334	ccd	297	10cm+G1

SV	Eri	max	56621,451	0,010	-0,0067	ccd	123	50mm+G1
BU	Eri	s	56630,397	0,015	+0,0057	ccd	82	50mm+G1
BV	Eri	p	56622,403	0,005	-0,0045	ccd	73	50mm+G1
BW	Eri	p	56633,403	0,007	-0,0066	ccd	30	50mm+G1
G7552.0260	For	p	56628,459	0,009	+0,0029	ccd	84	50mm+G1
TX	Her	p	56474,478	0,005	-0,0007	ccd	120	35mm+ST7
G1511.0479	Her	p	55949,488	0,010	+0,0000	ccd	0	Catalina
V01	Her	p	56072,870	0,010	-0,0061	ccd	0	Catalina
WY	Leo	p	56712,551	0,008	-0,0050	ccd	448	28cm+G2
RS	Lep	p	56632,585	0,004	-0,0035	ccd	81	50mm+G1
AL	Lep	p	56619,587	0,008	+0,0069	ccd	105	50mm+G1
G5013.0182	Lib	p	54235,365	0,010	+0,0000	ccd	0	Catalina
V 423	Oph	p	56470,431	0,005	-0,0074	ccd	210	28cm+G2
V 839	Oph	s	56504,415	0,006	-0,0010	ccd	59	35mm+ST7
FR	Ori	p	56560,545	0,005	+0,0043	ccd	132	10cm+G1
V1385	Ori	p	56640,460	0,005	+0,0002	ccd	232	50mm+ST7
AT	Peg	p	56506,428	0,002	-0,0030	ccd	80	50mm+ST7
GP	Peg	p	56560,357	0,004	+0,0017	ccd	271	10cm+G1
OO	Peg	p	56493,555	0,004	+0,0009	ccd	51	50mm+ST7
OO	Peg	p	56505,494	0,005	+0,0012	ccd	243	50mm+ST7
OO	Peg	p	56520,413	0,004	-0,0030	ccd	74	50mm+ST7
OO	Peg	p	56520,415	0,006	-0,0010	ccd	87	50mm+ST7
SZ	Psc	p	56545,529	0,010	-0,0058	ccd	266	50mm+ST7
G1606.1750	Sge	p	54392,532	0,010	-0,0030	V	0	Asas
G1606.1750	Sge	s	54409,508	0,010	+0,0120	V	0	Asas
EG	Ser	p	56488,474	0,008	+0,0008	ccd	138	35mm+ST7
EG	Ser	s	56503,397	0,010	+0,0025	ccd	369	35mm+ST7
GR	Tau	p	56583,573	0,005	-0,0009	ccd	175	28cm+G2
AG	Vir	p	56682,656	0,004	+0,0017	ccd	118	50mm+ST7
GR	Vir	p	56455,435	0,008	+0,0014	ccd	94	35mm+ST7
GR	Vir	p	56456,479	0,007	+0,0044	ccd	61	35mm+ST7

Remarks:

none

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