WHITE DWARF PERIOD TABLES
I. PULSATORS WITH HYDROGEN-DOMINATED ATMOSPHERES

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1 Introduction

The tradition of collecting and publishing the main photometric and physical parameters of pulsating white dwarf (WD) stars, together with their observed pulsation periods, amplitudes and their references, goes back to 1995. Bradley (1995) collected this information on the ZZ Ceti (or DAV), V777 Her (or DBV), interacting binary white dwarf (IBWD) stars, and also on the pulsating PG 1159-type (or DOV) and planetary nebula nucleus variable (PNNV) stars known at that time. Two updates followed this paper published in 1998 and 2000, respectively (Bradley 1998, 2000). After that time, online-only updates were presented for the white dwarf community in 2001\(^1\), in 2005\(^2\) and in 2010\(^3\). The last source lists the ZZ Ceti stars only (155 items).

In the meantime, dividing the hot (pre-)white dwarf pulsators into DOV and PNNV classes have become obsolete, and now the denomination GW Vir stars is used instead for all the post-AGB stars showing nonradial  \(g\)-mode pulsations (Quirion et al. 2007). Nevertheless, new groups of pulsating white dwarfs have been discovered, like the extremely low-mass DA pulsators (ELM-DAVs), the hot DAV stars, the DQV stars and the pulsating, mixed-atmosphere, extremely low-mass white dwarf precursors (pre-ELM WD variables). ZZ Ceti variables in detached white dwarf plus main-sequence (MS) binaries have also become known. Considering the new groups, the newly discovered members of the ‘classical’ ZZ Ceti, V777 Her and GW Vir groups, and also the new observational results on the formerly known pulsators, the update of the white dwarf data tables is now appropriate.

In this paper, taking account of the relatively large number of white dwarf variables and the considerable observational information on them, we focus on their most populated subgroup, that is, on the variables with hydrogen-dominated atmospheres only. Thus, we collected the main stellar parameters and pulsational properties with references of the ‘classical’ ZZ Ceti stars, the ZZ Ceti variables in detached WD plus MS binaries, the ELM-DAV and hot DAV stars.

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\(^1\)http://astro.if.ufrgs.br/wdtab.htm; by Kepler de Souza Oliveira Filho
\(^2\)http://whitedwarf.org/tables/; webpage of the White Dwarf Research Corporation
\(^3\)http://astro.if.ufrgs.br/zzceti.htm; by Kepler de Souza Oliveira Filho
2 Data collection and structure of the data tables

Table 1 lists the ZZ Ceti variables in detached white dwarf plus main-sequence binaries. This list of seven variables is based on the paper of Pyrzas et al. (2015).

Table 2 summarizes the observational results on the seven extremely low-mass DA pulsators presented in the papers of Hermes et al. (2012, 2013b,d); Bell et al. (2015b) and Kilic et al. (2015).

The hot DAV stars are listed in Table 3, a new group consisting of three members discovered by the work of Kurtz et al. (2008, 2013).

Finally, we list the members of the most populated subgroup of white dwarf pulsators with hydrogen atmospheres, the ‘classical’ ZZ Ceti stars, in Table 4. These objects can be treated as products of single-star evolution, in contrast to the ELM-DAV or ZZ Ceti stars in WD+MS binaries. We started the data collection with the 136 DAVs listed and refereed in the review paper of Fontaine & Brassard (2008). We then complemented this list with the ZZ Ceti stars reported by Stobie et al. (1997); Castanheira et al. (2010); Hermes et al. (2011); Sayres et al. (2012); Kepler et al. (2012); Castanheira et al. (2013); Hermes et al. (2013a); Greiss et al. (2014); Green et al. (2015); Gentile Fusillo et al. (2016); Greiss et al. (2016) and Bell et al. (2016). We closed the data collection with this last paper published on arxiv.org on 7th July, 2016. Altogether, 180 ZZ Ceti stars are listed in Table 4.

All tables follow the same structure specified below.

- Identifiers: the first column shows the star’s identifier in WD (J)HHMM±DDM(M) format, while the second column shows another identifier used in the literature or can be used to identify the object in the SIMBAD database (Wenger et al. 2000). The identifiers in parentheses are not recognized by SIMBAD, but used in the literature.

- Third and fourth columns: right ascension (RA) and declination (DEC) in the equatorial coordinate system (epoch J2000.0) from the SIMBAD database. The objects are arranged according to increasing right ascensions.

- Fifth and sixth columns: effective temperature ($T_{\text{eff}}$) and surface gravity (log $g$) values. In the case of ZZ Ceti stars in Table 4, most of the objects can be found either in the database of Giamninas et al. (2011) or Tremblay et al. (2011) with their spectroscopic atmospheric parameters determined by one-dimensional model atmospheres and by the use of the ML2/$\alpha=0.8$ version of the mixing-length theory. We corrected these $T_{\text{eff}}$ and log $g$ values according to the findings of Tremblay et al. (2013) based on radiation-hydrodynamics three-dimensional simulations of convective DA stellar atmospheres. We denoted the resulting values with $G$ or $T$ in superscript at the corresponding effective temperatures referring to the source of the original atmospheric parameters. In all the other cases, the source of the $T_{\text{eff}}$ and log $g$ values is the paper referred to in the last column, which is practically the paper reporting the discovery of the given pulsator.

- Seventh column: the $V$ magnitude of the star in the SIMBAD database. If there is no such data in SIMBAD, we list its $g$ magnitude, or, in absence of both $V$ and $g$ magnitudes, its brightness in $B$ band.

- Eight and ninth (last) columns: pulsation period (in second) with Fourier amplitude (in milli-modulation amplitude, mma) values arranged according to increasing periods, and the corresponding references. We applied the

\[1 \text{mma} = 1/1.086 \text{mmag} = 0.1\% = 1 \text{ppt}\]
conversion to convert the amplitudes published if necessary.

Our data collection strategy was to use the NASA’s Astrophysics Data System (ADS) to search for publications referring to a given object and looked for papers publishing pulsation periods and their Fourier amplitudes. In some instances, only period values were presented. In such cases, we abstained from making estimates on the amplitudes by the Fourier spectra presented (if any), thus we listed the periods only.

We aimed at collecting linearly independent pulsation frequencies alone, thus, if a frequency was denoted as a combination term in the literature, we did not add it to the period list. Such cases are indicated in parentheses by the following remarks after the periods and amplitudes: ‘+C’ – there are additional linear combinations (including harmonics) reported; ‘+SH’ – additional subharmonics (∼ n/2f_i) present in the data. ‘+R’ denotes that frequency components, which may be results of rotational splitting are also detected. In addition, the ‘iR’ remark means that the period list contains rotationally split frequencies, while ‘iC?’ denotes that our list may contains combination terms.

3 What is new?

One of the most conspicuous improvements we made comparing to the previous versions of white dwarf data tables is the completion of the object list with newly discovered pulsators both in the formerly known group of classical ZZ Ceti stars and in the newly established groups of hydrogen-atmosphere white dwarf pulsators.

Another relevant improvement concerns the periods listed. The authors restricted to the presentation of one set of periods, or just a representative period range, per object in the previously published white dwarf data tables. In contrast, we attempted to collect all different period lists existing in the literature for an object, that is, observational results from different epochs. We also emphasize this choice with the title selection of our catalogue ‘White Dwarf Period Tables’ instead of the ‘White Dwarf Data Tables’ used previously. This also implies that we present the almost complete bibliography of the observations of hydrogen-atmosphere pulsating white dwarf stars starting from 1968.

The different periods observed at different epochs can be the result e.g. of the different lengths and qualities of the data sets analysed, however, especially in the case of the ZZ Ceti stars being close to the red edge of the instability domain, short time-scale variations in the amplitudes of the excited modes are common. That is, pulsation modes never seen can be excited to an observable level, while others can vanish from one observational run to another. Eventually, comparing the different sets of periods from different runs, it can result in a more complete set of pulsation periods, which is essential for detailed asteroseismic investigations.

Smaller, but also significant improvements that we checked and corrected the star identifiers if it was necessary, in order to publish at least one identifier per star which can be found in the SIMBAD database. In essence, this affected the Sloan Digital Sky Survey (SDSS) identifiers, where the use of the correct format, including all the necessary decimals is crucial. We also note that in many cases the WD (J)HHMM±DDM(M) identifiers used in the literature are not found in SIMBAD, thus, especially in the publication of a new discovery, we recommend the indication of another identifier existing in the database (if any), or at least the equatorial coordinates of the object to make the identification of the new pulsator clear and easy. At last, as we mentioned in Sect. 2, we revised and updated the effective temperature and surface gravity values of the classical ZZ Ceti stars.
Table 1: ZZ Ceti stars in detached white dwarf plus main-sequence binaries.

| WD (SDSS) | Identifiers | Other RA (h m s) | DEC (° ′ ″) | Teff (K) | log g (dex) | V (mag) | Period/Amplitude (s/mma) | References |
|-----------|-------------|-----------------|-----------|----------|-------------|---------|--------------------------|------------|
| 0049-011  | SDSS J005208.42-005134.7 | 00 52 08 | -00 51 35 | 12300 | 8.46 | 18.3 (g) | 1077.2/4.0; 1093.8/4.0 | Pyrzas et al. (2015) |
| (J0111+000) | SDSS J011123.90+000935.2 | 01 11 24 | +00 09 35 | 12320 | 7.50 | 18.4 (g) | 366.5/9.1; 510.2/18.9; 583.2/16.3; 631.6/28.0; 883.6/15.9 | Pyrzas et al. (2015) |
| 0201+004  | SDSS J020351.29+004025.0 | 02 03 51 | +00 40 25 | 10790 | 8.17 | 19.4 (g) | 398.8/11.9; 683.9/15.2; 957.0/38.5 | Pyrzas et al. (2015) |
| (J0824+1723) | SDSS J082429.01+172345.4 | 08 24 29 | +17 23 45 | 11430 | 8.21 | 18.3 (g) | 513.9/9.2; 623.7/20.4; 807.2/13.9; 987.9/12.0 | Pyrzas et al. (2015) |
| (1043+0603) | SDSS J104358.59+060320.9 | 10 43 59 | +06 03 21 | 11170 | 8.19 | 18.7 (g) | 164.9/6.6; 292.5/5.3; 324.7/28.8; 634.4/8.5 | Pyrzas et al. (2015) |
| (J1117-1255) | SDSS J111710.53-125540.9 | 11 17 11 | −12 55 41 | 11300 | 8.29 | 19.7 (g) | 835.8/21.9 | Pyrzas et al. (2015) |
| (J1136+0409) | SDSS J113655.18+040952.6 | 11 36 55 | +04 09 53 | 11700 | 7.99 | 17.1 | 182.2/4.4; 276.5/8.3 | Hermes et al. (2015) |
Table 2: Extremely low-mass DA pulsators.

| WD (SDSS)          | Identifiers       | Other | RA   | DEC   | $T_{\text{eff}}$ | $\log g$ | $V$  | Period/Amplitude | References                      |
|--------------------|-------------------|-------|------|-------|-----------------|----------|------|------------------|---------------------------------|
| (J1112+1117)       | SDSS J111215.82+111745.0 |      | 11 12 16 | +11 17 45 | 9 590       | 6.36    | 16.9 | 107.6/0.4; 134.3/0.4; 1792.9/4.5; 1884.6/4.7; 2258.5/7.5; 2539.7/6.8; 2855.7/3.6 | Hermes et al. (2013d) |
| (J1518+0658)       | SDSS J151826.68+065813.2 |      | 15 18 27 | +06 58 13 | 9 900       | 6.80    |17.6 (g) | 1335.3/13.6; 1956.4/18.1; 2134.0/14.2; 2268.2/21.6; 2714.3/21.6; 2799.1/35.4; 3848.2/15.7 | Hermes et al. (2013d) |
| (J1614+1912)       | SDSS J161431.28+191219.4 |      | 16 14 31 | +19 12 19 | 8 880       | 6.66    |16.4 (g) | 1184.1/3.2; 1262.7/5.9 | Hermes et al. (2013b) |
| (J1618+3854)       | SDSS J161831.69+385415.1 |      | 16 18 32 | +38 54 15 | 9 140      | 6.83    |19.7 (g) | 2543.0/16.0; 4935.2/56.3; 6125.9/25.5 | Bell et al. (2015b) |
| –                  | PSR J1738+0333     |       | 17 38 54 | +03 33 11 | 9 130      | 6.55    |21.3 | 1788.0/12.7; 2656.0/11.5; 3057.0/12.2 | Kilic et al. (2015) |
| (J1840+6423)       | SDSS J184037.78+642312.3 |      | 18 40 38 | +64 23 12 | 9 100      | 6.22    |18.9 (g) | 1578.6/29.5; 2376.0/48.8; 4445.9/65.9 | Hermes et al. (2012) |
| (J2228+3623)       | SDSS J222859.93+362359.6 |      | 22 28 60 | +36 24 00 | 7 870      | 6.03    |16.9 (g) | 3254.5/2.3; 4178.3/6.3; 6234.9/1.9 | Hermes et al. (2013b) |
### Table 3: Hot DAV stars.

| WD   | Identifiers  | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References          |
|------|--------------|------------|-------------|----------------------|---------------|----------|-------------------------|---------------------|
| 0101+145 | SDSS J010415.99+144857.4 | 01 04 16  | +14 48 57   | 29 980              | 7.38          | 18.8 (g) | 159.0/4.0               | Kurtz et al. (2008) |
| 0232-097A | SDSS J023520.02-093456.3  | 02 35 20  | −09 34 56   | 30 110              | 7.30          | 17.8 (g) | 705.0/15.6               | Kurtz et al. (2008) |
| 1017-138 |              | 10 19 52  | −14 07 34   | 32 600              | 7.80          | 14.6     | 624.0/1.0                | Kurtz et al. (2013) |
Table 4: List of ZZ Ceti stars.

| WD        | Identifiers | RA (h m s) | DEC (° ′ ″) | Teff (K) | log g (dex) | V (mag) | Period/Amplitude | References |
|-----------|-------------|------------|-------------|----------|-------------|---------|------------------|------------|
| (J0000-0046) | SDSS J000006.75-004651.0 | 00 00 07 | -00 46 54 | 10 620 &sup1; | 8.18 | 18.8 (g) | 584.8/15.9; 601.4/9.0; 611.4/23.0 | Castanheira et al. (2007) |
| (J0018+0031) | SDSS J001836.11+003151.1 | 00 18 36 | 00 31 53 | 11 530 &sup2; | 8.04 | 17.4 (g) | 257.9/5.8 | Mullally et al. (2005) |
| 0016-258 | MCT 0016-2553 | 00 18 45 | -25 36 42 | 11 060 &sup2; | 8.06 | 16.1 | 1152.4/8.1 | Gianninas et al. (2006) |
| – | HE 0031-5525 | 00 33 36 | -55 08 39 | 11 480 | 7.65 | 15.7 (g) | 274.9/1.5; 276.9/4.8; 329.5/2.5 | Castanheira et al. (2006) |
| 0036+312 | G 132-12 | 00 39 04 | 31 31 37 | 12 480 &sup2; | 8.00 | 16.2 | 212.7/4.3 | Gianninas et al. (2006) |
| 0041+006 | SDSS J004345.78+005549.9 | 00 43 46 | 00 55 50 | 12 130 &sup2; | 8.14 | 18.7 (g) | 258.2/6.7 | Castanheira et al. (2010) |
| (J0048+1521) | SDSS J004855.17+152148.7 | 00 48 55 | 15 21 49 | 11 280 &sup2; | 8.17 | 18.7 (g) | 615.3/24.8 | Mullally et al. (2005) |
| 0059-008 | SDSS J010207.17-003259.4 | 01 02 07 | -00 33 00 | 10 850 &sup2; | 8.18 | 18.2 | 323.1/14.8; 333.2/8.6; 609.8/22.1; 636.4/8.7; 672.3/8.5; 698.4/18.3 | Stobie et al. (2016) |
| (J0102-0032) | SDSS J012234.68+003025.8 | 01 22 35 | 00 30 26 | 11 050 &sup2; | 7.94 | 16.8 (g) | 121.1/1.5; 200.8/1.3; 358.6/1.2 | Castanheira et al. (2010) |
| 0132-014 | SDSS J013440.94-010902.3 | 01 34 41 | -01 09 02 | 10 260 &sup2; | 7.82 | 18.1 (g) | 1212.0/45.4 | Gentile Fusillo et al. (2016) |
| WD    | Identifiers | RA (h m s) | DEC (° ′ ′′) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude References |
|-------|-------------|------------|--------------|---------------------|--------------|----------|-----------------------------|
| 0133-116 | Ross 548 | 01 36 14 | $-11 20 33$ | 12 300$^G$ | 8.03 | 14.2 | 212.9; 273.0; $\sim$2–11mma
|        |             |            |             |                     |              |          | Lasker & Hesser (1971)       |
|        |             |            |             | 212.8/5.1; 213.1/8.6; 274.3/5.8; |              |          | Stover et al. (1977)         |
|        |             |            |             | 274.8/3.7 (iR)     |              |          |                             |
|        |             |            |             | 212.8/4.8; 213.1/8.4; 274.3/5.3; |              |          | Stover et al. (1980)         |
|        |             |            |             | 274.8/3.7 (iR)     |              |          |                             |
|        |             |            |             | 187.0/$\sim$1; 212.8/2.1; 213.1/3.3; |              |          | Kepler et al. (1995a)        |
|        |             |            |             | 274.3/2.2; 274.8/1.3; 320.0/$\sim$1; |              |          |                             |
|        |             |            |             | 333.0/$\sim$1     |              |          |                             |
|        |             |            |             | 187.3/0.9; 212.8/4.1; 213.1/6.2; |              |          | Mukadam et al. (2003)        |
|        |             |            |             | 274.3; 274.8; 318.1/0.9; |              |          |                             |
|        |             |            |             | 333.6/0.6         |              |          |                             |
|        |             |            |             | 187.3/0.9; 213.0/5.4; 274.5/3.5; 318.1/1.1; 333.6/1.3 |              |          | Castanheira & Kepler (2009)  |
|        |             |            |             | 186.5/0.3; 186.7/0.4; 186.9/0.5; 212.8/4.4; 213.0/1.0; 213.1/6.6; |              |          |                             |
|        |             |            |             | 274.3/4.2; 274.5/0.7; 274.8/3.2; 317.0/0.4; 318.1/0.4; 319.2/0.4; |              |          | Mukadam et al. (2013)        |
|        |             |            |             | 333.6/0.6; 334.5/0.3; 335.3/0.3; 336.2/0.3 |              |          |                             |
|        |             |            |             | 186.9/0.9; 212.8/4.1; 212.9/1.4; 213.1/6.6; 217.8/0.3; 274.3/4.3; |              |          | Giannicche et al. (2015)     |
|        |             |            |             | 274.5/1.2; 274.8/3.1; 318.1/0.7; 318.8/0.3; 333.6/0.6 |              |          |                             |
| 0145-221 | MCT 0145-2211 | 01 47 22 | $-21 56 51$ | 11 850$^G$ | 8.15 | 14.9 | 462.2/25.0; 727.9/19.0; 823.2/17.0 |
|        |             |            |             |                     |              |          | Fontaine et al. (2003) (amplitudes: Mukadam et al. 2006) |
|        |             |            |             |                     |              |          |                             |
|        |             |            |             |                     |              |          | Voss et al. (2007)           |
|        | (HS 0210+3302) | 02 13 06 | 33 16 10 | 11 920 | 7.39 | 15.8 (B) | 189.4/4.7; 207.5/3.7 |
| (J0214-0823) | SDSS J021406.78-082318.4 | 02 14 07 | $-08 23 18$ | 11 580$^G$ | 7.86 | 17.9 (g) | 263.5/7.1; 297.5/16.9; 347.1/8.3; 348.1/8.5 |
| 0211-086 |             |            |             |                     |              |          | Mukadam et al. (2004)        |
|        |             |            |             |                     |              |          |                             |
|        |             |            |             |                     |              |          |                             |
| 0235+069 | HS 0235+0655 | 02 38 33 | 07 08 10 | 10 950 | 7.75 | 16.6 (B) | 1283.7/4.2 |
|        |             |            |             |                     |              |          | Voss et al. (2007)           |
Table 4: continued.

| WD          | Identifiers              | Other     | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                          |
|-------------|--------------------------|-----------|------------|-------------|-----------------------|---------------|-----------|-------------------------|-------------------------------------|
| –           | SDSS J024922.35-010006.7 | 02 49 22  | −01 00 07  | 11 030°C    | 8.19                  | 18.9          |           | 1005.6/5.6; 1045.2/10.9 | Castanheira et al. (2006)          |
| 0246+326    | KUV 02464+3239           | 02 49 28  | 32 51 13   | 11 620°C    | 8.13                  | 15.8          |           | 831.6                   | Fontaine et al. (2001)             |
|             |                          |           |            |             |                       |               |           | 619.3/4.3; 777.6/6.0; 828.7/12.6; 866.2/10.3; 993.2/14.3; 1250.3/4.8 | Bognár et al. (2009)               |
| –           | SDSS J030153.81+054020.0 | 03 01 54  | 05 40 20   | 11 470       | 8.09                  | 18.1 (g)      |           | 300.8/24.9              | Castanheira et al. (2010)          |
| (J0303-0808)| SDSS J030325.22-080834.9 | 03 03 25  | −08 08 35  | 11 260°C    | 8.40                  | 18.8 (g)      |           | 707.0/4.1; 1128.0/3.5   | Castanheira et al. (2007)          |
| 0300-086A   |                          |           |            |             |                       |               |           | 536.1/10.6; 587.1/10.1; 826.4/21.1 | Mukadam et al. (2004)             |
| (J0318+0030)| SDSS J031847.09+003029.9 | 03 18 47  | 00 30 30   | 11 150°C    | 8.18                  | 17.8 (g)      |           | 536.1/11.1; 587.1/10.6; 695.0/8.9; 826.4/27.3; 844.9/15.3 | Mukadam et al. (2006)             |
| 0316+003    |                          |           |            |             |                       |               |           | 969.0/21.8; 746.4/21.1 | Gentile Fusillo et al. (2016)      |
| (0332-0049)| SDSS J033236.61-004918.3 | 03 32 37  | −00 49 18  | 10 940°C    | 8.05                  | 18.2 (g)      |           | 767.5/15.1               | Mukadam et al. (2004)             |
| 0330-010    |                          |           |            |             |                       |               |           | 402.0/4.1; 765.0/15.2; 938.4/6.7; 1143.7/7.4 | Mukadam et al. (2006)             |
| 0341-459    | BPM 31594                | 03 43 29  | −45 49 04  | 11 500°C    | 8.05                  | 15.0          |           | 314.0(?) 617.0          | McGraw (1976)                      |
|             |                          |           |            |             |                       |               |           | 617.3 (+C,SH)            | Odonoghue (1986)                   |
|             |                          |           |            |             |                       |               |           | 416.1(?)/5.0; 617.9/9–65 (+C,SH) | O’Donoghue et al. (1992)          |
| 0344+073    | KUV 03442+0719           | 03 46 51  | 07 28 03   | 10 870°C    | 7.78                  | 16.2 (B)      |           | 1384.9/7.6               | Gianninas et al. (2006)            |
|             |                          |           |            |             |                       |               |           | 428.7/5.0; 431.8/3.9; 908.6/4.5; 972.9/2.2; 976.0/5.1; 976.6/1.8; 1023.9/1.8; 1031.2/2.6; 1097.5/2.2; 1136.5/5.2; 1139.6/4.3; 1167.1/2.8; 1185.6/2.8; 1192.6/2.0; 1237.4/2.7; 1238.0/2.6; 1250.4/5.4; 1287.0/6.0; 1289.6/1.5; 1323.3/10.6; 1326.8/2.6; 1349.2/9.6; 1396.1/1.8; 1403.7/3.7; 1423.7/2.7; 1508.8/5.9; 1686.5/2.3; 1806.8/1.8; 2425.7/1.7; 2439.0/4.0; 2494.8/4.7 (+R,C) | Su et al. (2014a)
Table 4: continued.

| WD          | Identifiers     | Other | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                        |
|-------------|-----------------|-------|------------|-------------|-----------------------|--------------|----------|--------------------------|-----------------------------------|
| –           | HE 0344-1207    | 03 47 09 | 11 58 09 | 11 470       | 8.28                  | 17.0 (B)     |          | 392.9/21.1; 461.0/11.4; 762.2/18.9 | Voss et al. (2007)                 |
| (J0349+1036)| SDSS J034939.35+103649.9 | 03 49 39 | 10 36 50 | 11 720       | 8.40                  | 16.6 (g)     |          | 184.5/3.8               | Castanheira et al. (2013)          |
| 0416+272    | HL Tan 76       | 04 18 57 | 27 17 48 | 11 470$^G$   | 7.92                  | 14.1         |          | 747.4                   | Landolt (1968)                     |
|             |                 |        |           |             |                       |              |          | 626.0; 663.0; 746.0 (+C,SH) | Page (1972)                        |
|             |                 |        |           |             |                       |              |          | 494.2; 746.2 (+C)        | Fitch (1973)                       |
|             |                 |        |           |             |                       |              |          | 359.0/8.1; 383.0/21.8; 450.0/7.3; | Dolez (1998)                       |
|             |                 |        |           |             |                       |              |          | 494.0/30.2; 541.0/40.5; 597.0/15.6; |                          |
|             |                 |        |           |             |                       |              |          | 657.0/11.2; 781.0/9.9; 796.0/9.7; |                          |
|             |                 |        |           |             |                       |              |          | 933.0/25.2; 1065.0/19.9 (iC?) |                          |
|             |                 |        |           |             |                       |              |          | 382.5/16.5; 493.2/7.1; 494.2/4.4; | Dolez et al. (2006)               |
|             |                 |        |           |             |                       |              |          | 541.0/28.5; 541.8/8.1; 542.5/7.0; |                          |
| 0417+361    | G 38-29         | 04 20 17 | 36 16 27 | 11 160$^G$   | 7.89                  | 15.6         |          | 923.9; 1021.9 (+C)       | McGraw & Robinson (1975)           |
|             |                 |        |           |             |                       |              |          | 413.3/3.1; 432.4/3.6; 544.9/6.1; | Thompson et al. (2009)            |
|             |                 |        |           |             |                       |              |          | 547.0/7.0; 548.9/4.8; 706.0/18.4; |                          |
|             |                 |        |           |             |                       |              |          | 799.2/6.0; 840.4/5.2; 900.0/10.6; |                          |
|             |                 |        |           |             |                       |              |          | 922.7/5.9; 945.4/12.3; 962.1/8.1; |                          |
|             |                 |        |           |             |                       |              |          | 963.6/4.6; 980.1/11.4; 989.7/10.0; |                          |
|             |                 |        |           |             |                       |              |          | 1002.2/7.1; 1016.2/5.8; 1081.8/5.0; |                          |
|             |                 |        |           |             |                       |              |          | 1086.8/3.9; 1089.4/5.2 (+C) |                          |
| 0455+553    | G 191-16        | 04 59 27 | 55 25 21 | 11 440$^G$   | 8.04                  | 16.0         |          | 588.2; 666.7; 882.6 (+C) | McGraw et al. (1981)               |
|             |                 |        |           |             |                       |              |          | 892.9 (+C,SH)            | Vauclair et al. (1989)             |
| (0502+540)  | LP 119-10       | 05 02 34 | 54 01 09 | 11 400       | 8.24                  | 15.2         |          | 873.6/12.7              | Green et al. (2015)                |
| WD          | Identifiers | RA (h m s) | DEC (° ′ ′′) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                               |
|-------------|-------------|------------|--------------|----------------------|---------------|-----------|------------------------|------------------------------------------|
| 0507+045    | (HS 0507+0435) | 05 10 14   | 04 38 55     | 12 010$^G$           | 8.19          | 15.3      | 278.4/12.8; 355.1/22.0; 445.2/7.3; 558.7/19.0 (+C) | Jordan et al. (1998)                     |
|             | HS 0507+0434B |           |              |                      |               |           | 354.9/10.9; 355.4/4.7; 355.8/25.7; 444.6/12.6; 445.3/3.0; 446.1/14.7; 555.3/18.6; 556.6/6.3; 557.6/17.1; 743.4/8.4 (+C) | Handler & Romero-Colmenero (2001)       |
|             |             |            |              |                      |               |           | (also in Handler et al. 2002) |                                          |
|             |             |            |              | 286.1/3.6; 354.9/6.8; 355.8/22.7; 444.8/13.6; 446.2/11.0; 557.7/18.7; 743.0/13.9 (+C;IR) | Kotak et al. (2002)                     |
|             |             |            |              | 355.8/24.0; 446.2/13.9; 555.3/16.6; 743.4/7.6 |               |           | 354.9/15.8; 355.3/2.5; 355.8/12.6; 444.7/5.3; 445.3/2.8; 446.1/13.8; 555.3/14.3; 556.5/6.7; 557.8/15.0; 654.8/11.0; 655.9/5.8; 657.1/10.6; 695.6/17.4; 699.6/15.2; 746.1/13.0; 748.6/10.5; 750.3/10.9; 999.7/3.0 (+C;IR) | Fu et al. (2013)                         |
| 0517+307    | GD 66       | 05 20 38   | 30 48 24     | 12 210$^G$           | 8.10          | 15.6      | 197.0/6.0; 256.0/5.0; 273.0/20.0; 304.0/10.0 | Dolez et al. (1983)                     |
|             |             |            |              |                      |               |           | 196.7; 271.4; 301.4; 810.4 (+C) | Fontaine et al. (1985)                   |
|             |             |            |              |                      |               |           | 197.2/1.8; 197.6/4.2; 198.1/2.7; 255.9/3.4; 256.2/2.5; 271.2/2.9; 271.7/16.7; 272.2/2.5; 302.8/11.3; 518.6/1.8; 523.3/2.3 (+C;IR) | Yeates et al. (2005)                     |
|             |             |            |              |                      |               |           | 197.4/5.4; 256.0/3.8; 271.7/17.0; 302.8/11.4 (+C) | Castanheira & Kepler (2009)              |
| 0532-560    | HE 0532-5605 | 05 33 07   | 56 03 53     | 11 510$^G$           | 8.42          | 16.0      | 586.4; 688.8 | Fontaine et al. (2003)                     |
|             |             |            |              |                      |               |           | 522.4/2.1; 563.7/2.5; 599.7/2.5; 686.1/5.5; 723.7/7.8; 753.8/4.8; 822.3/3.4; 881.7/2.9 | Castanheira & Kepler (2009)              |
| (0702+440)  | PM J0702+4406 | 07 02 59   | 44 06 54     | 11 000               | 8.29          | 15.1      | 1366.4/1.0 | Green et al. (2015)                     |

Table 4: continued.
| WD | Identifiers | RA (h m s) | DEC (° ′ ″) | T<sub>eff</sub> (K) | log g (dex) | V (mag) | Period/Amplitude (s/mma) | References |
|----|-------------|------------|--------------|----------------|------------|--------|--------------------------|------------|
|    | (HS 0733+4119) | 07 37 08 | 41 12 28 | 11 160 | 7.72 | 15.8 | 468.8/19.4; 656.2/38.7; 747.4/20.3 | Voss et al. (2007) |
|    | SDSS J073707.99+411227.6 | | | | | | | |
| (J0756+2020) | SDSS J075617.54+202010.2 | 07 56 18 | 20 20 10 | 11 830↑ | 8.13 | 18.3 | 199.5/6.8 | Mullally et al. (2005) |
| (J0815+4437) | SDSS J081531.75+443710.3 | 08 15 32 | 44 37 10 | 11 840↑ | 8.21 | 19.3 | 258.3/6.2; 313.9/9.3; 317.7/22.0; 511.5/7.3; 787.5/6.6 | Mukadam et al. (2004) |
|    | | | | | | | | |
| (J0818+3131) | SDSS J081829.98+313153.0 | 08 18 29 | 31 31 53 | 11 820↑ | 8.13 | 17.4 | 202.3/3.3; 253.3/2.9 | Mullally et al. (2005) |
| (0825+0329) | SDSS J082518.86+032927.8 | 08 25 19 | 03 29 28 | 12 120↑ | 8.15 | 17.5 | 303.0/3.8; 334.0/6.9; 481.0/4.5; 664.0/11–12; 704.0/6.0; 826.0/5.3 | Kepler et al. (2005) |
| (J0825+4119) | SDSS J082547.00+411900.0 | 08 25 47 | 41 19 00 | 11 510↑ | 8.37 | 18.5 | 611.0/11.2; 653.4/17.1 | Mukadam et al. (2004) |
|    | SDSS J083203.98+142942.3 (EPIC 211596649) | 08 32 04 | 14 29 42 | 11 230 | 7.94 | 18.9 | not published yet | Bell et al.(2016) |
| 0836+404 | KUV 08368+4026 | 08 40 08 | 40 15 04 | 12 010↑ | 8.13 | 15.6 | 494.5/6.0; 618.0/17.4 | Vauclair et al. (1997) |
|    | | | | | | | | |
|    | SDSS J084054.14+145709.0 (EPIC 211629697) | 08 40 54 | 14 57 09 | 10 570 | 7.92 | 18.3 | 487.0/1.6; 1095–1309 s | Bell et al.(2016) |
| (J0842+3707) | SDSS J084220.73+370701.7 | 08 42 21 | 37 07 02 | 11 620↑ | 7.88 | 18.8 | 309.3/17.9 | Mukadam et al. (2004) |
|    | | | | | | | | |
| (0843+0431) | SDSS J084314.05+043131.6 | 08 43 14 | 04 31 32 | 11 220↑ | 8.09 | 17.8 | 373.0/10.4; 1049.0/11.4; 1085.0/7.4 | Kepler et al. (2005) |
| (J0847+4510) | SDSS J084746.82+451006.3 | 08 47 47 | 45 10 06 | 11 690↑ | 8.12 | 18.3 | 201.0/7.3 | Mukadam et al. (2004) |
### Table 4: continued.

| WD              | Identifiers                  | Other (h m s) | DEC ($^\circ$ $^\prime$ $^\prime\prime$) | \(T_{\text{eff}}\) (K) | \(\log g\) (dex) | \(V\) (mag) | Period/Amplitude (s/mma) | References                  |
|-----------------|------------------------------|---------------|----------------------------------------|------------------------|-----------------|-------------|-------------------------|-----------------------------|
| (0851+0605)     | SDSS J085128.17+060551.1     | 08 51 28      | 06 05 51                               | 11 300\(^\text{T}\)  | 8.05            | 16.8 (g)   | 123.4/3.0; 200.5/7.0     | Mukadam et al. (2006)       |
|                 | (J0853+0005)                 | 08 53 26      | 00 05 14                               | 11 950\(^\text{T}\)  | 8.15            | 18.2 (g)   | 326/22.4                 | Kepler et al. (2005)        |
| (0850+002)      | SDSS J085007.29+063540.9     | 08 55 07      | 06 35 41                               | 10 970\(^\text{T}\)  | 8.22            | 17.2 (g)   | 264.4/4.0                 | Castanheira et al. (2007)   |
|                 | (EPIC 211916160)             |               |                                        |                        |                 |             |                          |                             |
|                 | SDSS J090041.08+190714.3     | 09 00 41      | 19 07 14                               | 11 690                | 8.09            | 17.6 (g)   | 433.0/15.0; 850.0/44.0    | Castanheira et al. (2007)   |
|                 | (EPIC 211926430)             |               |                                        |                        |                 |             |                          |                             |
| 0858+363        | GD 99                        | 09 01 49      | 36 07 08                               | 12 110\(^\text{T}\)  | 8.20            | 14.6        |                          |                             |
|                 |                              |               |                                        |                        |                 |             |                          | McGraw & Robinson (1976)    |
|                 |                              |               |                                        |                        |                 |             | 223.9/2.6; 228.7/6.3; 1026.1/4.3; 1058.1/7.6 | Bell et al. (2016)          |
|                 |                              |               |                                        |                        |                 |             |                          |                             |
| (0906-0024)     | SDSS J090624.26-002428.2     | 09 06 24      | –00 24 28                              | 11 260\(^\text{T}\)  | 8.07            | 17.7 (g)   | 486.0/11.9; 562.1/19.9; 756.4/22.2; 978.8/11.2 | Mukadam et al. (2006)       |
|                 |                              |               |                                        |                        |                 |             |                          |                             |
| (0911+0310)     | SDSS J091118.42+031045.1     | 09 11 18      | 03 10 45                               | 11 630\(^\text{T}\)  | 8.14            | 18.4 (g)   | 615.8/9.1; 769.4/26.1    | Bell et al. (2016)          |
|                 |                              |               |                                        |                        |                 |             |                          |                             |
| (0913+4036)     | SDSS J091312.74+403628.7     | 09 13 13      | 40 36 29                               | 11 850\(^\text{T}\)  | 8.09            | 17.6 (g)   | 203.9/3.8; 260.3/16.5; 288.7/12.4; 320.5/14.7 | Mullally et al. (2005)      |
|                 |                              |               |                                        |                        |                 |             |                          |                             |
| (0916+3855)     | SDSS J091635.07+385546.2     | 09 16 35      | 38 55 46                               | 11 320\(^\text{T}\)  | 8.04            | 16.6 (g)   | 238.1/10.8; 447.7/14.4; 485.1/32.9; 747.2/9.1 | Castanheira et al. (2007)   |
|                 |                              |               |                                        |                        |                 |             |                          |                             |
| (0917+0926)     | SDSS J091731.00+092638.1     | 09 17 31      | 09 26 38                               | 11 340\(^\text{T}\)  | 8.09            | 18.1 (g)   | 212.0/8.0; 259.0/10.2; 289.0/16.1 | Kepler et al. (2005)        |
|                 | EQ J0917+0926                |               |                                        |                        |                 |             |                          |                             |
| Identifiers | RA (h m s) | DEC (°′″′) | Teff (K) | log g (dex) | V (mag) | References |
|-------------|------------|------------|----------|-------------|---------|------------|
| (J0923+0120) 0920+015 | 09 23 30 | 01 20 20 | 11 190^T | 8.38 | 18.3 (g) | Mukadam et al. (2004) |
| | | | 595.2/7.4 | | | |
| | | | 655.7/4.4; 668.9/3.5 | | | Mukadam et al. (2006) |
| | | | 595.1/2.7; 1436.4/1.4; 2032.3; | | | Romero et al. (2013) |
| (J0921+354) | 09 24 15 | 35 16 51 | 12 420^G | 8.12 | 15.5 | Richer & Ulrych (1974) |
| | | | 216.0; 271.7; 307.7 | | | McGraw & Robinson (1976) |
| | | | 215.2/23.9; 271.0/7.3; 304.4/8.1 (+C) | | | Kepler et al. (1982) |
| | | | 215.2/20.2; 270.5/5.6; 304.1/6.3 (+C) | | | Kepler et al. (1995c) |
| | | | 215.2/17.4; 270.5/6.1; 304.1/7.5 (+C) | | | Castanheira & Kepler (2008) |
| (J0925+0509) | 09 25 12 | 05 09 33 | 10 830^T | 8.21 | 15.2 (g) | Castanheira et al. (2010) |
| | | | 1127.1/3.2; 1264.3/3.1 | | | |
| | | | 1159.0/2.7; 1341.0/4.0 | | | Romero et al. (2013) |
| (J0939+5609) 0936+563 | 09 39 45 | 56 09 40 | 11 690^T | 8.29 | 18.7 (g) | Mukadam et al. (2004) |
| | | | 249.9/7.2 | | | |
| | | | 48.5/5.9(?); 249.9/7.2 | | | Mukadam et al. (2006) |
| (J0940+0052) | 09 40 00 | 00 52 07 | 10 590^T | 8.34 | 18.1 (g) | Castanheira et al. (2013) |
| | | | 255.0/17.1; 255.8/8.0 | | | |
| (J0942+5733) 0938+577 | 09 42 13 | 57 33 43 | 11 360^T | 8.12 | 17.4 (g) | Mukadam et al. (2004) |
| | | | 451.0/18.4; 550.5/12.3; 694.7/37.7 | | | Mukadam et al. (2006) |
| | | | 273.0/9.0; 550.5/12.3; 694.7/37.7; 909.4/7.7 | | | |
| (0949-0000) 0946+002 | 09 49 17 | 00 00 24 | 11 130^T | 8.21 | 18.8 (g) | Mukadam et al. (2004) |
| | | | 213.3/6.0; 363.2/12.5; 364.0/7.3; 365.2/17.7; 516.6/16.2; 634.2/5.1; 711.6/6.0 | | | |
| 0951+132 | 09 53 45 | 12 58 30 | 12 010^G | 8.05 | 16.5 (g) | Mukadam et al. (2004) |
| | | | 208.0/9.3; 258.6/3.6; 281.6/8.8 | | | Mukadam et al. (2006) |
| | | | 208.0/9.4; 258.0/3.6; 282.2/9.0; 311.7/2.7 | | | |
| 0952+182 | 09 55 11 | 18 02 15 | 11 390^G | 8.11 | 16.3 (g) | Mukadam et al. (2004) |
| | | | 853.8/3.9; 1159.7/4.8; 1466.0/4.5 | | | Mukadam et al. (2006) |
| | | | 674.7/3.0; 790.0/2.9; 883.0/3.6; | | | |

**Table 4: continued.**
| WD         | Identifiers       | Other     | RA (h m s) | DEC (° ′ ′′) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                                      |
|------------|------------------|-----------|------------|--------------|----------------------|--------------|----------|-------------------------|------------------------------------------------|
| (J0958+0130) | SDSS J095833.13+013049.3 | 09 58 33  | 01 30 49   | 11 730°      | 8.08                 | 16.7 (g)     |          | 203.7/2.5; 264.4/4.7    | Mukadam et al. (2004)                           |
| 0955+017    |                  |           |            |              | 121.2/1.6; 203.7/2.5; 264.4/4.7 |             |          |                         |                                                 |
| (J0959+0238) | SDSS J095936.96+023828.4 | 09 59 37  | 02 38 29   | 11 830°      | 8.06                 | 18.5         |          | 194.7/7.2; 283.4/13.0   | Castanheira et al. (2010)                       |
| (J1002+5818) | SDSS J100238.58+581835.9  | 10 02 39  | 58 18 36   | 11 440°      | 8.11                 | 18.3 (g)     |          | 268.2/6.8; 304.6/5.3    | Mullally et al. (2005)                          |
| (J1007+5245) | SDSS J100718.26+524519.8  | 10 07 18  | 52 45 20   | 11 390°      | 8.12                 | 18.9 (g)     |          | 152.8/5.8; 258.8/11.0; 290.1/7.7; 323.1/10.4 (4C?) | Mullally et al. (2005)                          |
| 1004+529    |                  |           |            |              |                      |              |          |                         |                                                 |
| (J1015+5954) | SDSS J101519.65+595430.5 | 10 15 20  | 59 54 31   | 11 440°      | 8.06                 | 18.0 (g)     |          | 213.0/9.8; 292.4/8.5; 401.7/20.8; 453.7/15.8; 1116.5/12.6 | Mulladam et al. (2004)                          |
| (J1015+0306) | SDSS J101548.01+030648.4 | 10 15 48  | 03 06 48   | 11 630°      | 8.12                 | 15.7 (g)     |          | 194.7/5.8; 255.7/7.3; 270.0/8.4 | Mulladam et al. (2004)                          |
| 1013+033    |                  |           |            |              |                      |              |          |                         |                                                 |
| (J1039+4112) | HS 1039+4112     | 10 42 34  | 40 57 15   | 11 730°      | 8.12                 | 16.1 (g)     |          | 837.3/26.0; 855.5/55.2 (+C) | Silvotti et al. (2005)                          |
| PB 520      |                  |           |            |              |                      |              |          |                         |                                                 |
| (J1047+335) | SDSS J104749.87+530759.1 | 10 54 50  | 53 07 59   | 10 960°      | 7.96                 | 17.9 (g)     |          | 444.6/16.0; 869.1/37.4 | Mullally et al. (2005)                          |
| (J1054+5307) | SDSS J105449.87+530759.1 | 10 54 50  | 53 07 59   | 10 960°      | 7.96                 | 17.9 (g)     |          | 444.6/16.0; 869.1/37.4 | Mullally et al. (2005)                          |
| 1051+533B   |                  |           |            |              |                      |              |          |                         |                                                 |
| (J1056-0006) | SDSS J105612.32-000621.7 | 10 56 12  | –0 06 22   | 11 130°      | 7.91                 | 17.5 (g)     |          | 314.2/11.0; 474.4/22.9; 942.2/62.3 | Mulladam et al. (2004)                          |
| (J1105-1613) | SDSS J110525.70-161328.3 | 11 05 26  | –16 13 29  | 11 670°      | 8.23                 | 17.5 (g)     |          | 192.7/12.1; 298.3/7.1   | Castanheira et al. (2010)                       |
| (1106+0115) | SDSS J110623.40+011520.8 | 11 06 23  | 01 15 21   | 10 920°      | 7.90                 | 18.4 (g)     |          | 842.0/9.4; 973.0/10.8 | Kepler et al. (2005)                            |
| 1103+015    |                  |           |            |              |                      |              |          |                         |                                                 |
| (1116+026)  | GD 133           | 11 19 12  | 02 20 33   | 12 430°      | 8.10                 | 14.6         |          | 115.9/1.5; 120.4/4.6; 146.9/1.1 | Silvotti et al. (2006)                          |

945.9/10.4; 1150.0/4.8; 1160.9/7.9
| WD                | Identifiers          | RA      | DEC   | $T_{\text{eff}}$ | log $g$ | $V$ | Period/Amplitude | References                                 |
|-------------------|----------------------|---------|-------|------------------|--------|-----|------------------|--------------------------------------------|
| (J1122+0358)      | SDSS J112221.10+035822.4 | 11 22 21 | 03 58 22 | 11 030$^T$       | 7.91   | 18.2 (g) | 859.0/34.3; 996.1/17.9 | Mukadam et al. (2004)                     |
|                   |                      |         |       |                  |        |      | 740.1/10.0; 859.1/34.6; 996.1/17.3 |                         | Mukadam et al. (2006)                     |
| (J1125+0345)      | SDSS J112542.84+034506.3 | 11 25 43 | 03 45 06 | 11 600$^T$       | 7.95   | 18.1 (g) | 208.6/2.8; 265.5/7.2; 265.8/3.3 | Mukadam et al. (2004)                     |
|                   |                      |         |       |                  |        |      | 208.6/2.8; 265.5/7.1; 265.8/3.3 |                         | Mukadam et al. (2006)                     |
|                   |                      |         |       |                  |        |      | 335.1/2.8 |                     |                                           |
| 1126-222          | EC 11266-2217        | 11 29 12 | –22 33 44 | 12 010$^G$       | 8.08   | 16.2 | 215.7–218.3/3.7–8.1; 234.1/4.49; | Voss et al. (2006)                     |
|                   |                      |         |       |                  |        |      | 275.7–277.6/7.7–7.0; 386.4/4.0; |                                           |
|                   |                      |         |       |                  |        |      | 402.7/3.0 |                     |                                           |
| (J1136-0136)      | SDSS J113604.01-013658.1 | 11 36 04 | –01 36 58 | 11 780$^T$       | 8.05   | 17.8 (g) | 260.8/2.5 |                        | Castanheira et al. (2010)                  |
| 1137+423          | KUV 11370+4222       | 11 39 41 | 42 05 19 | 11 940$^G$       | 8.17   | 16.5 (g) | 257.2/5.8; 292.2/2.7; 462.9/3.5 | Vaucclair et al. (1997)                   |
|                   |                      |         |       |                  |        |      | 139.0/2.6; 257.9/18.3; 280.8/2.7; |                         | Su et al. (2014b)                         |
|                   |                      |         |       |                  |        |      | 293.8/3.0; 394.1/4.5; 398.1/2.5; |                                           |
|                   |                      |         |       |                  |        |      | 402.1/2.4; 462.8/8.4; 762.4/2.8; |                                           |
|                   |                      |         |       |                  |        |      | 811.8/2.5 (+C,iR) |                     |                                           |
| 1149+057          | PG 1149+057          | 11 51 54 | 05 28 40 | 11 060$^G$       | 8.06   | 15.4 | 1023.5/10.5 |                        | Voss et al. (2006)                     |
| 1150-153          | EC 11507-1519        | 11 53 15 | –15 36 36 | 12 440$^G$       | 8.20   | 16.0 | 249.6/7.7 |                        | Gianninas et al. (2006)                  |
|                   |                      |         |       |                  |        |      | 191.7/3.6; 249.4/4.7 |                         | Voss et al. (2007)                     |
| (J1157+0553)      | SDSS J115707.43+055303.6 | 11 57 07 | 05 53 04 | 11 040$^T$       | 8.04   | 17.6 (g) | 436.1/3.9; 458.7/4.2; 748.5/5.6; | Mukadam et al. (2004)                   |
|                   |                      |         |       |                  |        |      | 826.2/8.1; 918.9/15.9; 1056.2/5.8 |                         |                                           |
| (J1200-0251)      | SDSS J120054.55-025107.0 | 12 00 55 | –02 51 07 | 11 970$^T$       | 8.24   | 18.2 (g) | 257.1/6.7; 271.3/13.1; 294.1/6.7; | Castanheira et al. (2013)                |
|                   |                      |         |       |                  |        |      | 304.8/23.7 |                     |                                           |
| 1159+803          | G 255-2              | 12 01 45 | 80 04 59 | 11 440$^G$       | 8.14   | 16.0 | 384.6; 476.2; 689.7/36.0; 840.3/36.0 | Vaucclair et al. (1981)                 |
|                   |                      |         |       |                  |        |      | 399; 461; 573; 608; 660; 681; 764; 810; 855; 906 (+R) |                         | Fu et al. (2002)                         |
|                   |                      |         |       |                  |        |      | 568.5/6.6; 607.9/13.1; 681.2/24.9; 775.2/15.2; 819.7/11.3; 855.4/11.2; 898.6/9.4 |                         | Mukadam et al. (2006)                     |
| WD            | Identifiers                  | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | $\log g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                  |
|---------------|------------------------------|------------|-------------|-----------------------|----------------|-----------|--------------------------|-----------------------------|
| (1216+0922)   | SDSS J121628.55+092246.4     | 12 16 29   | 09 22 46    | 11 240°F              | 8.25           | 18.6 (g) | 568.5/16.5; 681.2/27.7; 773.4/12.7; 985.2/4.8 | Mukadam et al. (2006)       |
| (J1218+0042)  | 1215+099                     | 12 18 31   | 00 42 16    | 11 170°F              | 8.06           | 18.5 (g) | 409.0/30.1; 570.0/24.6; 626.0/21.6; 823.0/45.2; 840.0/42.0; 967.0/20.5 | Kepler et al. (2005)        |
| (1222-0243)   | SDSS J122229.57-024332.5     | 12 22 30   | -02 43 33   | 11 380°F              | 8.19           | 16.7 (g) | 100.0/11.0; 152.0/5.1; 175.0/10.0; 258.0–259.0/8.2–16.0 | Kepler et al. (2005)        |
| 1236-095      | BPM 37003                    | 12 38 50   | -49 48 00   | 11 620°F              | 8.69           | 14.0     | 198.0/7.3; 396.0/22.0 |                            | Kanaan et al. (1992)        |
| (1247+310)    |                             | ∼ 12 47    | ∼ 31 00     | 12 110                 | 8.43           | 17.2     | 600.0/4.0 |                            | Kanaan et al. (2000)        |
| (1250+041)    | HS 1249+0426                 | 12 52 15   | 04 10 43    | 12 160°F              | 8.21           | 16.0 (g) | 512.0; 532.0; 548.0; 565.0; 582.0; 608.0; 615.0; 635.0; 649.0 |                            | Kanaan et al. (2000)        |
| (1255+0211)   | SDSS J125535.41+021116.0     | 12 55 35   | 02 11 16    | 11 580°F              | 8.15           | 19.1 (g) | 511.7; 531.1; 548.4; 564.1; 582.0; 600.7; 613.5; 635.1 |                            | Metcalfe et al. (2004)      |
| (1257+0124)   | SDSS J125710.50+012422.9     | 12 57 11   | 01 24 23    | 11 490°F              | 8.30           | 18.7     | 511.7/0.7; 531.1/1.2; 548.4–549.2/0.8–1.1; 502.6/0.9; 565.5–565.9/0.5–1.2; 582.0/1.0; 600.7/0.9; 613.5/1.1; 633.2–633.5/1.1–1.3; 636.7–637.2/0.7–1.7; 660.8/0.5 (IR?) |                            | Kanaan et al. (2005)        |
| (1258+013)    | HE 1258+0123                 | 13 01 11   | 01 07 40    | 11 420°F              | 8.02           | 16.3     | 812.0/16.4; 897.0/31.7; 1002.0/21.7 |                            |                            | Kepler et al. (2005)        |
| (1301+0107)   |                             |            |             |                       |                |          | 364.6/2.0 |                            | Green et al. (2015)         |
| (1301+0107)   |                             |            |             |                       |                |          | 288.9/7.6 |                            | Voss et al. (2006)          |
| (1301+0107)   |                             |            |             |                       |                |          | 905.8/46.7 |                            | Castanheira et al. (2006)   |
| (1301+0107)   |                             |            |             |                       |                |          | 377.8/6.6; 398.1/6.7; 466.3/8.9; 507.1/8.4; 644.5/21.9; 786.9/8.9; 946.3/10.5; 1070.5/7.9 |                            | Romero et al. (2013)        |
| (1301+0107)   |                             |            |             |                       |                |          | 439.2; 528.5; 744.6; 1092.1 |                            |                            | Bergeron et al. (2004)      |
| (1301+0107)   |                             |            |             |                       |                |          | 628.0/15.2; 882.0/17.6 |                            |                            | Kepler et al. (2005)        |
| WD         | Identifiers        | RA (h m s) | DEC (° ′ ′′) | $T_{\text{eff}}$ (K) | $\log g$ (dex) | $V$ (mag) | Period/Amplitude | References                                      |
|------------|--------------------|------------|--------------|-----------------------|----------------|-----------|------------------|------------------------------------------------|
| 1307+354   | GD 154             | 13 09 58   | 35 09 47     | 11 120$^G$            | 8.07           | 15.3      | 439.2/9.8; 528.5/9.3; 628.0/15.2; 744.6/22.9; 881.5/17.6; 1092.1/14.1 | Castanheira & Kepler (2009) |
|            |                    |            |              |                       |                |           | 1186.1 (+C,SH)   | Robinson et al. (1978) |
|            |                    |            |              |                       |                |           | 402.5; 596.1; 597.2; 1125.1; 1129.5; 1133.4; 1271.4 (+C,iR) | Hürkal et al. (2005) |
|            |                    |            |              |                       |                |           | 402.6/2.7; 1084.0/5.6; 1088.6/5.0; 1183.5/4.6; 1186.5/16.7; 1190.5/6.3; 1092.1/3.0 (+C,iR) | Pfeiffer et al. (1995) |
|            |                    |            |              |                       |                |           | (also in Pfeiffer et al. 1996) | |
|            |                    |            |              |                       |                |           | 1186.0/7.5; 1191.7/9.1; 1238.2/5.0; 1244.2/4.8 (+C,iR) | Paparó et al. (2013) |
| (1310-0159)|                    | 13 10 08   | -01 59 56    | 10 940$^T$            | 7.76           | 17.7 (g)  | 280.0/6.6–9.2; 310.0/0.6; 349.6/17.6 | Kepler et al. (2005) |
| 1307-017   |                    |            |              |                       |                |           | 8.07 17.1 (g)    | |
| 1321+013   | SDSS J132350.28+010304.2 | 13 23 50   | 01 03 04     | 11 380$^T$            | 8.45           | 18.5 (g)  | 495.4/4.1; 549.8/6.7; 590.1/7.1; 612.2/11.9; 636.4/4.8; 671.1/4.4; 698.6/4.3; 831.1/4.6; 884.2/4.1 | Kepler et al. (2012) |
|            |                    |            |              |                       |                |           | 432.5/5.1; 497.4/6.4; 525.0/3.6; 550.5/8.6; 564.6/18.3; 590.1/7.1; 603.6/8.3; 612.2/11.9; 636.4/4.8; 656.0/15.3; 675.4/6.4; 698.6/4.3; 731.6/5.2; 831.1/4.6; 884.2/4.1 | Romero et al. (2013) |
| (J1337+0104)|                    | 13 37 14   | 01 04 44     | 11 460$^T$            | 8.64           | 18.6 (g)  | 715.0/10.0    | Kepler et al. (2005) |
| 1334+013   |                    |            |              |                       |                |           | 8.02 16.0 982.0/5.2; 1177.0/6.2 | Voss et al. (2006) |
| (J1338-0023)| SDSS J133831.74-002328.0 | 13 38 32   | 00 23 28     | 11 900$^T$            | 8.07           | 17.1 (g)  | 119.7/1.8; 196.9/4.0 | Castanheira et al. (2010) |
| 1335-001   |                    |            |              |                       |                |           | 118.7/1.8; 196.9/4.0 | |
|            | (EPIC 229227292)   | 13 42 12   | -07 35 40    | 11 190                | 8.02           | 16.7 (Kp) | 289.3; 370.7; 514.1; 800–1250 s | Bell et al. (2016) |
| 1342-237   | EC 13429-2342      | 13 45 46   | -23 57 10    | 11 000$^G$            | 8.02           | 16.0      | 982.0/5.2; 1177.0/6.2 | Voss et al. (2006) |
| (J1345-0055)| SDSS J134550.93-005536.5 | 13 45 51   | -00 55 36    | 11 760$^T$            | 8.10           | 16.7 (g)  | 195.2/5.5; 195.5/3.9; 254.4/2.4 (IR?) | Mukadam et al. (2004) |
| WD        | Identifiers       | RA (h m s) | DEC ($^\circ$ $'$ $''$) | $T_{\text{eff}}$ (K) | $\log g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                                      |
|-----------|------------------|------------|--------------------------|-----------------------|----------------|----------|--------------------------|------------------------------------------------|
| 1349+552  | LP 133-144       | 13 51 20   | 54 57 43                 | 12 150$^{+}$7.97     | 15.7           | (g)      | 209.2; 304.5; 306.9; 327.3 | Bergeron et al. (2004)                           |
|           |                  |            |                          | 140.5/0.7; 179.4/0.7; 179.5/0.4; 179.7/0.5; 209.0/1.2; 209.2/11.8; 209.4/1.1; 270.4/2.2; 270.6/3.8; 270.9/3.7; 305.6/3.3; 305.9/4.2; 306.2/1.3; 327.3/3.0 (+C,iR) |
| 1350+656  | G 238-53         | 13 52 11   | 65 24 57                 | 12 130$^{+}$7.97     | 15.5           |          | 206.0                    | Fontaine & Wesemael (1984)                       |
|           |                  |            |                          | 122.2/2.0            | 179.5/1.5; 173.3/1.1; 198.3/6.0; 291.6/2.2; 322.9/1.9 |
| (J1354+0108)| SDSS J135459.89+010819.3 | 13 55 00   | 01 08 19                 | 11 650$^{+}$8.03     | 16.4           | (g)      | 127.8/1.5; 173.3/1.1; 198.3/6.0; 291.6/2.2; 322.9/1.9 |
| 1352+013  |                  |            |                          | 324.0/21.8           | 399.0/13.0; 530.0/15.0; 610.0/57.0; 724.0/21.0; 937.0/11.0 (+C) |
| (J1355+5454)| SDSS J135531.03+545404.5 | 13 55 31   | 54 54 05                 | 11 480$^{+}$7.93     | 18.6           | (g)      | 399.2/7.4; 529.8/13.4; 608.6/7.6; 612.1/36.4; 615.8/11.4; 673.8/2.8; 678.9/6.1; 683.0/3.5; 715.2/11.8; 716.9/7.9; 722.1/44.1; 723.6/10.4; 727.0/5.1; 728.9/9.9; 760.8/43.2; 771.8/9.4; 775.6/5.8; 882.7/3.1; 1217.6/7.7 (+C,iR) |
| 1401-147  | EC 14012-1446    | 14 03 57   | $-15$ 01 11              | 12 020$^{+}$8.18     | 15.7           |          | 398.9/12.1; 530.1/16.7; 610.4/54.3; 678.6/7.6; 722.9/22.9; 769.1/51.7; 882.7/2.9; 937.2/11.0; 1217.4/7.5 |
|           |                  |            |                          | 350.1/2.0; 398.7/2.1; 399.2/12.7; 433.9/4.7; 528.8/3.8; 529.8/20.7; 530.9/1.5; 537.6/6.4; 563.4/7.2; 612.0/25.7; 615.8/3.1; 645.9/7.9; 657.2/2.2; 705.0/1.2; 805.5/1.2; 865.1/1.9; 905.6/2.2; 979.3/1.7; 1069.1/2.7 (+C,iR) |
|           |                  |            |                          | 821.3; 935.4; 964.7; 1035.4; 1104.2; 1136.5; 1163.2; 1219.8; 1298.9; 1332.9; 1384.9; 1418.4; 2004–2008 |
Table 4: continued.

| WD            | Identifiers                  | RA (h m s) | DEC (° ′ ″) | T\textsubscript{eff} (K) | log g (dex) | V (mag) | Period/Amplitude (s/mma) | References                  |
|---------------|-----------------------------|------------|-------------|---------------------------|-------------|---------|--------------------------|------------------------------|
| (1408+0445)   | SDSS J140859.46+044554.7    | 14 08 59   | 04 45 55    | 10 920\textsuperscript{T} | 7.99        | 17.9    | g                        |                              |
| 1406+050      |                             |            |             |                           |             |         |                          |                              |
| (J1417+0058)  | SDSS J141708.81+005827.2    | 14 17 09   | 00 58 27    | 11 000\textsuperscript{T} | 8.01        | 18.0    | g                        |                              |
| 1414+012      |                             |            |             |                           |             |         |                          |                              |
| 1422+095      | GD 165                      | 14 24 39   | 09 17 14    | 12 220\textsuperscript{G} | 8.11        | 14.3    |                          |                              |
| (1429-037)    | HE 1429-0343                | 14 32 03   | -03 56 38   | 11 290\textsuperscript{G} | 8.00        | 15.8    |                          |                              |
| 1425-811      | L 19-2                      | 14 33 08   | -81 20 15   | 12 070\textsuperscript{G} | 8.13        | 13.0    |                          |                              |
|               |                             |            |             |                           |             |         |                          |                              |
|               |                             |            |             |                           |             |         |                          | 113.6; 192.4                |
|               |                             |            |             |                           |             |         |                          | McGraw (1977)                |
|               |                             |            |             |                           |             |         |                          | Odonoghue & Warner (1982)    |
|               |                             |            |             |                           |             |         |                          | Silvotti et al. (2005)      |
| WD/Other | Identifiers | RA (h m s) | DEC ($^\circ$ $^\prime$ $^\prime\prime$) | Teff (K) | log g (dex) | V (mag) | Period/Amplitude (s/mma) | References |
|----------|-------------|------------|---------------------------------|----------|------------|--------|--------------------------|------------|
| (J1443+0134) | SDSS J144330.93+013405.8 | 14 43 31 | 01 34 06 | 10 450$^T$ | 7.85 | 18.7 (g) | 968.9/7.5; 1085.0/5.2 | Yeates et al. (2005) |
| (J1502-0001) | SDSS J150207.02-000147.1 | 15 02 07 | −00 01 47 | 11 090$^T$ | 7.75 | 18.7 (g) | 313.6/13.1; 418.2/14.9; 581.9/11.1; 629.5/32.6; 687.5/12.0 | Mukadam et al. (2004) |
| (J1524-0030) | SDSS J152403.25-003022.9 | 15 24 03 | −00 30 23 | – | – | 15.8 (g) | 434.0/47.8; 873.2/111.5 | Mukadam et al. (2004) |
| 1526+558 | HS 1531+7436 | 15 28 09 | 55 39 15 | 10 860$^G$ | 7.73 | 17.1 (B) | 648.9/36.8 | Green et al. (2015) |
| – | – | 15 30 35 | 74 26 04 | 13 270$^G$ | 8.49 | 16.4 | 112.5/4.2 | Voss et al. (2006) |
| (J1533-0206) | SDSS J153332.96-020655.7 | 15 33 33 | −02 06 56 | 11 390$^T$ | 8.04 | 16.4 (g) | 257.8/4.3; 260.6/5.3 | Castanheira et al. (2006) |
| 1541+650 | PG 1541+650 | 15 41 45 | 64 53 53 | 11 560$^G$ | 8.12 | 15.6 (g) | 467.0/3.0; 564.0/15.0; 689.0/45.0; 757.0/14.0 (+C) | Vauclair et al. (2000) |
| 1559+369 | Ross 808 | 16 01 23 | 36 48 35 | 11 120$^G$ | 7.98 | 14.4 | 833.0 | McGraw & Robinson (1976) |
| – | – | 15 30 35 | 74 26 04 | 13 270$^G$ | 8.49 | 16.4 | 112.5/4.2 | Voss et al. (2006) |
| (J1533-0206) | SDSS J153332.96-020655.7 | 15 33 33 | −02 06 56 | 11 390$^T$ | 8.04 | 16.4 (g) | 257.8/4.3; 260.6/5.3 | Castanheira et al. (2006) |
| 1541+650 | PG 1541+650 | 15 41 45 | 64 53 53 | 11 560$^G$ | 8.12 | 15.6 (g) | 467.0/3.0; 564.0/15.0; 689.0/45.0; 757.0/14.0 (+C) | Vauclair et al. (2000) |
| 1559+369 | Ross 808 | 16 01 23 | 36 48 35 | 11 120$^G$ | 7.98 | 14.4 | 833.0 | McGraw & Robinson (1976) |
Table 4: continued.

| Identifiers | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References |
|-------------|------------|-------------|----------------------|--------------|-----------|--------------------------|------------|
| WD          | Other      | Other       |                      |              |           |                          |            |
| 1607+205    |            | – 16 09 44  | 20 23 11             | 11 140$^G$   | 7.81      | 17.4                     | 1928.5/1.8 | Green et al. (2015)     |
| (J1612+0830)| SDSS J161218.08+083028.1| 16 12 18  | 08 30 28             | 12 030       | 8.46      | 17.8 (g)                | 115.2/5.1; 117.2/4.1 | Castanheira et al. (2013) |
| (J1617+4324)| SDSS J161737.63+432443.8| 16 17 38  | 43 24 44             | 11 070$^T$   | 8.07      | 18.4 (g)                | 626.3/24.1; 889.6/36.6 | Mukadam et al. (2004)    |
| (J1618-0023)| SDSS J161837.25-002302.7| 16 18 37  | – 00 23 03           | 10 860       | 8.16      | 19.3 (g)                | 644.0/5.4 | Castanheira et al. (2006) |
| 1616-002    |            |            |                      |              |           |                          |            |
| –           | HS 1625+1231| 16 28 13   | 12 24 53             | 11 690$^G$   | 8.06      | 16.1 (g)                | 385.2/17.0; 533.6/23.6; 862.9/48.9 | Voss et al. (2006) |
| (J1641+3521)| SDSS J164115.61+352140.6| 16 41 16  | 35 21 41             | 11 230       | 8.43      | 19.1                    | 809.3/27.3 | Castanheira et al. (2006) |
| 1647+591    | G 226-29   | 16 48 26   | 59 03 23             | 12 510$^G$   | 8.35      | 12.2                    | 109.1/3.0; 109.3/1.0; 109.5/3.0 (iR) | Kepler et al. (1983) |
|             |            |            |                      |              |           |                          | 109.1/2.5; 109.3/1.1; 109.5/2.8 (iR) | Kepler et al. (1995b) |
| (J1650+3010)| SDSS J165020.53+301021.2| 16 50 21  | 30 10 21             | 10 830$^T$   | 8.43      | 18.1 (g)                | 339.1/14.7 | Castanheira et al. (2007) |
| 1659+662    | GD 518     | 16 59 15   | 66 10 33             | 11 760$^G$   | 8.97      | 16.5 (B)               | 440.2; 513.2; 583.7; 0.8–4.1mma | Hermes et al. (2013a) |
| (J1700+3549)| SDSS J170055.38+354951.1| 17 00 55  | 35 49 51             | 11 230$^T$   | 7.94      | 17.3 (g)                | 450.5/19.3; 893.4/54.7; 955.3/20.4 | Mukadam et al. (2004) |
|             |            |            |                      |              |           |                          | 552.6/9.3; 893.4/54.3; 955.3/20.3; 1164.4/11.4 | Mukadam et al. (2006) |
| (J1711+6541)| SDSS J17113.01+654158.3| 17 11 13  | 65 41 58             | 11 130$^T$   | 8.47      | 16.9 (g)                | 606.3/5.2; 690.2/3.3; 1248.2/3.2 | Mukadam et al. (2004) |
| 1711+657    |            |            |                      |              |           |                          | 234.0/1.2; 606.3/5.2; 690.2/3.3; 1248.2/3.2 | Mukadam et al. (2006) |
|             |            |            |                      |              |           |                          | 214.3/1.7; 561.5/3.0; 612.6/5.7; | Mukadam et al. (2006) |
| WD           | Identifiers       | RA           | DEC  | $T_{\text{eff}}$ | $\log g$ | $V$ | Period/Amplitude | References            |
|--------------|------------------|--------------|------|-----------------|----------|-----|------------------|-----------------------|
| 1714-547     | BPM 24754        | 17 19 02     | $-54 45 54$ | 10 840$^G$ | 7.90     | 15.6 | 978.0–1176.0/22.6–6.1 | Giovanni (1998)        |
| (J1724+5835) | SDSS J172428.42+583539.0 | 17 24 28 | 58 35 39 | 11 640$^F$ | 7.88     | 17.6 (g) | 189.2/3.2; 279.5/8.3; 337.9/5.9 | Mukadam et al. (2004) |
| (J1732+5905) | SDSS J173235.19+590533.4 | 17 32 35 | 59 05 33 | 10 770$^F$ | 7.97     | 18.7 (g) | 1122.4/10.2; 1248.4/22.5 | Mukadam et al. (2004) |
|              | HS 1824+6000     | 18 24 44     | 60 02 00 | 11 520$^G$ | 7.73     | 15.7 (B) | 294.3/8.8; 384.4/3.3; 304.4/7.7; 329.6/13.6 | Voss et al. (2006)     |
|              |                  |              |       |                 |          |      |                  | 173.7; 224.7; 225.1; 286.1; 320.9; 363.5 |                       |
| 1855+338     | G 207-9          | 18 57 30     | 33 57 25 | 12 080$^G$ | 8.37     | 14.6 | 259.1; 292.0; 318.0; 557.4; 738.6 (iC?) | Robinson & McGraw (1976) |
|              |                  |              |       |                 |          |      |                  | 129.4/1.1; 196.1/1.3; 290.9/1.1; 291.9/11.0; 292.9/1.7; 305.2/0.4; 317.8/0.5; 595.7/2.2; 599.8/1.2; 623.8/1.2; 626.8/0.9 (+C,IR) | Bognár et al. (2016)  |
|              |                  |              |       |                 |          |      |                  | 283.8/17.8             | Greiss et al. (2016)  |
|              |                  |              |       |                 |          |      |                  | 853.5/28.1             | Greiss et al. (2016)  |
| (J1916+3938) | KIC 4552982      | 19 16 44     | 39 38 50 | 11 130 | 8.34     | 17.7 | 823.9/3.8; 834.1/3.2; 934.5/3.6; 968.9/4.4; 1089.0/2.5; 1109.9/2.3; 1436.7/2.4 | Hermes et al. (2011)   |
|              |                  |              |       |                 |          |      |                  | 360.5/0.16; 361.6/0.16; 362.6/0.94; 788.2/0.05; 828.3/0.14; 866.1/0.16; 907.6/0.14; 950.5/0.16; 982.2/0.09; 1014.2/0.08; 1053.7/0.06; 1109.9/0.05; 1158.2/0.07; 1200.2/0.04; 1244.7/0.05; 1289.2/0.11; 1301.7/0.08; 1333.2/0.07; 1363.0/0.07; 1498.3/0.08 (IR) | Bell et al. (2015a)   |
|              |                  |              |       |                 |          |      |                  | 323.4/13.0             | Greiss et al. (2016)  |
Table 4: continued.

| WD       | Identifiers       | Other (h m s) | RA ($^\circ$) | DEC ($^\prime$) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References                  |
|----------|-------------------|---------------|---------------|----------------|----------------------|---------------|-----------|--------------------------|-----------------------------|
| –        | KIC 8293193       | 19 17 55      | 44 13 26      | 12 650         | 8.01                 | 18.4 (g)      |           | 310.9/27.9                | Greiss et al. (2016)       |
| –        | KIC 119111480     | 19 20 25      | 50 17 22      | 12 160         | 7.94                 | 18.1 (g)      |           | 172.9; 173.0; 202.5; 202.6; 259.1; 259.3; 259.4; 290.6; 290.8; 291.0; 324.1; 324.3; 324.5; 0.9–21.8 (mna (+C,iR)) | Greiss et al. (2014)       |
| –        | (KIC 4362927)     | 19 23 49      | 39 29 33      | 11 140         | 7.84                 | 19.4 (g)      |           | 723.6/25.3                | Greiss et al. (2016)       |
| 1935+276 | G 185-32          | 19 37 14      | 27 43 19      | 12 470$^G$     | 8.10                 | 13.0          |           | 70.8; 141.4; 215.1 (iC,SH?) | McGraw et al. (1981)       |
|         |                   |               |               |               |                      |               |           | 70.9/1.8; 72.5/1.2; 141.8/1.6; 215.7/2.7; 300.0/1.9; 301.3/1.9; 370.1/2.2; 560.0/1.7 | Kepler et al. (2000)       |
|         |                   |               |               |               |                      |               |           | 72.5/0.9; 72.9/0.4; 141.2/0.4; 141.9/1.4; 181.9/0.03; 212.8/0.5; 215.7/1.9; 264.2/0.5; 266.2/0.4; 299.8/1.0; 301.4/1.1; 370.2/1.6; 454.6/0.4; 537.6/0.6; 651.7/0.7 (+C,iR?) | Castanheira et al. (2004)  |
|         |                   |               |               |               |                      |               |           | 72.6/0.7; 141.9/1.5; 215.7/1.9; 301.6/1.5; 370.2/1.3 (+C) | Thompson et al. (2004)     |
| –        | (KIC 9162396)     | 19 39 07      | 45 33 34      | 11 070         | 8.06                 | 18.5 (g)      |           | 766.0/14.1                | Greiss et al. (2016)       |
| –        | (KIC 7760212)     | 19 44 06      | 43 27 22      | 11 890         | 8.01                 | 16.8 (g)      |           | 322.0/6.7                 | Greiss et al. (2016)       |
| –        | (KISJ1945+4455)   | 19 45 42      | 44 55 11      | 11 590         | 8.04                 | 17.2 (g)      |           | 255.9/19.0                | Greiss et al. (2016)       |
| 1950+250 | GD 385            | 19 52 28      | 25 09 29      | 11 820$^G$     | 8.07                 | 15.1          |           | 178.9; 228.8; 254.3; 273.0; 386.4; 535.6; 648.9 (+C) | Fontaine et al. (1980)     |
|         |                   |               |               |               |                      |               |           | 126.0/3.3; 172.0/4.3; 192.0/6.5; 252.0/17.4; 546.0/11.9; 691.5/17.4 (iC?) | Vauclair & Bonazzola (1981) |
|         |                   |               |               |               |                      |               |           | 128.1/3.7; 256.1/11.4; 256.3/10.9 (iR?) | Kepler (1984)              |
| 1959+059 | GD 226            | 20 02 13      | 06 07 38      | 10 730$^G$     | 8.06                 | 16.4          |           | 1350.4/5.7                | Voss et al. (2007)         |
Table 4: continued.

| WD     | Identifiers | Other | RA (h m s) | DEC (°′′′) | T$_{\text{eff}}$ (K) | log g (dex) | V (mag) | Period/Amplitude References | References |
|--------|-------------|-------|------------|------------|----------------------|-------------|---------|-------------------------------|------------|
| 2102+233 | J2128-0007  | SDSS J212808.49-000750.8 | 21 28 08 | 00 07 51 | 11 420$^G$ 8.24 18.0 | 274.9/11.0; 289.0/9.7; 302.2/17.1 | Castanheira et al. (2006) |
| 2132-079 | (J2135-0743)| SDSS J213530.32-074330.7 | 21 35 30 | 07 43 31 | 10 900$^G$ 7.96 18.7 | 281.8/13.3; 299.9/22.9; 323.2/13.0; 510.6/16.8; 565.4/49.8 | Castanheira et al. (2006) |
| –       | SDSS J214723.73-001358.4 | 21 47 24 | 00 13 58 | 11 990 7.92 19.1 | – | 199.8/3.9 | Castanheira et al. (2010) |
| 2148+539 | G 232-38    | SDSS J214859.83-001358.4 | 21 48 59 | 00 13 58 | 11 990$^G$ 8.02 16.4 | 741.6; 984.0; 1147.4 | Gianninas et al. (2005) |
| 2148-291 | –           | SDSS J215149.06-001358.4 | 21 48 29 | 00 13 58 | 11 990$^G$ 8.06 15.9 | – | 260.8/12.6 | Gianninas et al. (2006) |
| 2151-077 | SDSS J215354.11-073121.9 | 21 51 40 | 07 31 51 | 11 910$^G$ 8.27 18.7 | – | 210.2/5.6 | Castanheira et al. (2006) |
| –       | SDSS J215628.26-004617.2 | 21 56 28 | 00 46 17 | 10 680$^G$ 8.01 18.3 | 1234.0/31.4; 1478.0/27.0 | Gentile Fusillo et al. (2016) |
| (J2159+1322)| SDSS J215905.52+132255.7 | 21 59 06 | 13 22 56 | 11 370$^G$ 8.69 18.9 | 683.7/11.7; 801.0/15.1 | Mullally et al. (2005) |
| (J2208+0654)| SDSS J220830.02+065448.7 | 22 08 30 | 06 54 49 | 11 100 8.49 17.9 | 668.1/4.1; 757.2/4.4 | Castanheira et al. (2013) |
| (J2209-0919)| SDSS J220915.84-091942.5 | 22 09 16 | 09 19 43 | 11 630$^G$ 8.30 18.4 | 447.9/10.8; 789.3/10.4; 894.7/43.9 | Castanheira et al. (2010) |
| (J2214-0025)| SDSS J221458.37-002511.7 | 22 14 58 | 00 25 12 | 11 650$^G$ 8.30 17.9 | 195.2/6.1; 255.2/13.1 | Mullally et al. (2005) |
| (J2231+1346)| SDSS J223135.71+134652.8 | 22 31 36 | 13 46 53 | 11 060$^G$ 7.89 18.7 | 382.4/14.6; 548.7/13.7; 619.7/18.9; 627.0/26.3; 707.5/17.1 | Castanheira et al. (2006) |
| –       | SDSS J223726.86-004617.2 | 22 37 27 | 01 01 11 | 11 380$^G$ 7.97 18.9 | 392.3/44.7; 774.4/80.1 | Gentile Fusillo et al. (2016) |
| 2254+126 | GD 244      | SDSS J2254+126 | 22 54 126 | 12 52 50 | 11 760$^G$ 8.09 15.6 | 307.0; 294.6; 256.3; 203.3 (+C) | Fontaine et al. (2001) |
| –       | SDSS J2254+126 | 22 54 126 | 12 52 50 | 11 760$^G$ 8.09 15.6 | 307.0; 294.6; 256.3; 203.3 (+C) | Fontaine et al. (2001) |
| 2303+242 | PG 2303+242 | SDSS J2303+242 | 23 03 242 | 24 32 08 | 11 500$^G$ 8.07 15.5 | 570.7/8.0; 623.4/15.0; 675.4/8.0; 794.5/56.0; 900.5/16.0 (+C,iR) | Vauclair et al. (1987) |
| –       | PG 2303+242 | SDSS J2303+242 | 23 03 242 | 24 32 08 | 11 500$^G$ 8.07 15.5 | 570.7/8.0; 623.4/15.0; 675.4/8.0; 794.5/56.0; 900.5/16.0 (+C,iR) | Vauclair et al. (1987) |
| Identifiers | RA (h m s) | DEC (° ′ ″) | T$_{\text{eff}}$ (K) | log g (dex) | V (mag) | Period/Amplitude (s/mma) | References |
|-------------|-----------|-------------|----------------|-----------|---------|-------------------------|------------|
| WD          | Other     |             |                |            |         |                          |            |
| 2326+049    | G 29-38   | 23 28 48    | 05 14 54       | 11 910$^G$ | 8.17    | 13.0                    | McGraw & Robinson (1975) |
|             |           |             |                |            |         | 612.9; 677.0; 824.7; 930.9; 1015.5 (+C) | Castanheira et al. (2006) |
|             |           |             |                |            |         | 261.8/2.3; 221.3/2.1; 234.1/3.2; 261.8/2.3; 322.5/3.1; 390.7/2.8; 513.3/3.8; 807.9/3.8; 1241.2/3.1 (+C) | Pakštienė et al. (2011) |
| - SDSS J230726.66-084700.3 | 23 07 27 | -08 47 00 | 10 970$^T$ | 8.21 | 18.9 | 617.0/12.5; 1212.2/25.6 |           |
| 2336-079    | GD 1212   | 23 38 51    | -07 41 20      | 10 970$^G$ | 8.03    | 13.3                    | Hermes et al. (2014) |
| (J2334+0103)| SDSS J233458.71+010303.1 | 23 34 59 | 01 03 03 | 11 400 | 7.99 | 19.2 (g) | Gianninas et al. (2006) |
Table 4: continued.

| WD     | Identifiers       | Other | RA (h m s) | DEC (° ′ ″) | $T_{\text{eff}}$ (K) | log $g$ (dex) | $V$ (mag) | Period/Amplitude (s/mma) | References              |
|--------|-------------------|-------|------------|-------------|-----------------------|--------------|---------|--------------------------|-------------------------|
| 2347+128 | G 30-20           | 23 49 53 | 13 06 13  | 11 150$^G$ | 8.01                  | 16.1         |         | 1068.0/13.8               | Mukadam et al. (2002)   |
| (J2350-0054) | SDSS J235040.72-005430.9 | 23 50 41 | −00 54 31 | 10 290$^T$ | 8.14                  | 18.1 (g)     |         | 273.3/6.2; 304.3/17.0; 391.1/7.5 | Mukadam et al. (2004)   |
|         |                   |       |            |             |                       |              |         | 206.7/3.2; 273.3/6.3; 304.3/17.0; 391.1/7.5 | Mukadam et al. (2006)   |
| 2348-244 | EC 23487-2424     | 23 51 22 | −24 08 17  | 11 560$^G$ | 8.09                  | 15.5 (B)     |         | 804.5/19.3; 868.2/12.8; 989.3/11.0; 993.0/37.7 (+C) | Stobie et al. (1993)     |
|         |                   |       |            |             |                       |              |         | 508.1/15.0; 878.8/34.0      | Thompson et al. (2005)  |

Notes. ($^G$) The effective temperature ($T_{\text{eff}}$) and surface gravity (log $g$) values are provided by Gianninas et al. (2011), and then corrected according to the results of Tremblay et al. (2013). ($^T$) The effective temperature ($T_{\text{eff}}$) and surface gravity (log $g$) values are provided by Tremblay et al. (2011), and then corrected according to the results of Tremblay et al. (2013).
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