











Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy

GUILHERME LIMBERG ¹, RAFAEL M. SANTUCCI ^{2,3}, SILVIA ROSSI ¹, DEREK SHANK ⁴, VINICIUS M. PLACCO ⁵,
TIMOTHY C. BEERS ⁴, KEVIN C. SCHLAUFMAN ⁶, ANDREW R. CASEY ^{7,8}, HÉLIO D. PEROTTONI ¹ AND
YOUNG SUN LEE ⁹

¹Universidade de São Paulo, Instituto de Astronomia, Geofísica e Ciências Atmosféricas, Departamento de Astronomia,
SP 05508-090, São Paulo, Brazil

²Universidade Federal de Goiás, Instituto de Estudos Socioambientais, Planetário, Goiânia, GO 74055-140, Brazil

³Universidade Federal de Goiás, Campus Samambaia, Instituto de Física, Goiânia, GO 74001-970, Brazil

⁴Department of Physics and JINA Center for the Evolution of the Elements, University of Notre Dame, Notre Dame, IN 46556, USA

⁵Community Science and Data Center/NSF's NOIRLab, 950 N. Cherry Ave., Tucson, AZ 85719, USA

⁶Department of Physics and Astronomy Johns Hopkins University 3400 North Charles Street Baltimore, MD 21218, USA

⁷School of Physics & Astronomy, Monash University, Wellington Road, Clayton 3800, Victoria, Australia

⁸ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions (ASTRO 3D), Canberra, ACT 2611, Australia

⁹Department of Astronomy and Space Science, Chungnam National University, Daejeon 34134, Republic of Korea

ABSTRACT

We present the results of spectroscopic follow-up for 1897 low-metallicity star candidates, selected from the Best & Brightest (B&B) Survey, carried out with the GMOS-N/S (Gemini North/South telescopes) and Goodman (SOAR Telescope) spectrographs. From these low-resolution ($R \sim 2000$) spectra, we estimate stellar atmospheric parameters, as well as carbon and magnesium abundance ratios. We confirm that 56% of our program stars are metal-poor ($[\text{Fe}/\text{H}] < -1.0$), 30% are very metal-poor (VMP; $[\text{Fe}/\text{H}] < -2.0$) and 2% are extremely metal-poor (EMP; $[\text{Fe}/\text{H}] < -3.0$). There are 191 carbon-enhanced metal-poor (CEMP) stars, resulting in CEMP fractions of 19% and 43% for the VMP and EMP regimes, respectively. A total of 94 confirmed CEMP stars belong to Group I ($A(\text{C}) \gtrsim 7.25$) and 97 to Group II ($A(\text{C}) \lesssim 7.25$) in the Yoon-Beers $A(\text{C})$ – $[\text{Fe}/\text{H}]$ diagram. Moreover, we combine these data with Gaia EDR3 astrometric information to delineate new target-selection criteria, which have been applied to the Goodman/SOAR candidates, to more than double the efficiency for identification of bona-fide VMP and EMP stars in comparison to random draws from the B&B catalog. We demonstrate that this target-selection approach can achieve success rates of 96%, 76%, 28% and 4% for $[\text{Fe}/\text{H}] \leq -1.5$, ≤ -2.0 , ≤ -2.5 and ≤ -3.0 , respectively. Finally, we investigate the presence of dynamically interesting stars in our sample. We find that several VMP/EMP ($[\text{Fe}/\text{H}] \leq -2.5$) stars can be associated with either the disk system or halo substructures like Gaia-Sausage/Enceladus and Sequoia.

Keywords: Galaxy: halo – Galaxy: kinematics and dynamics – stars: atmospheres – stars: carbon – stars: Population II – techniques: spectroscopy

1. INTRODUCTION

Very metal-poor (VMP; $[\text{Fe}/\text{H}]^{11} < -2.0$) and extremely metal-poor (EMP; $[\text{Fe}/\text{H}] < -3.0$) stars are relics of the formation and evolution of the Galaxy, providing clues on the nucleosynthesis processes operating

throughout its early history (Beers & Christlieb 2005). Seminal efforts, focused towards discovering VMP and EMP stars in the past (e.g., the HK survey; Beers et al. 1985, 1992, and the Hamburg/ESO survey; Christlieb 2003; Christlieb et al. 2008), provided the majority of targets observed at high spectroscopic resolution over the last few decades (e.g., Norris et al. 1996; Hill et al. 2002; Cayrel et al. 2004; Aoki et al. 2007; Cohen et al. 2008; Yong et al. 2013a; Roederer et al. 2014). Studies of these ancient stars have allowed stellar archaeologists to constrain the conditions for the chemical enrichment of the star-forming environments that existed in the nascent Milky Way (Frebel & Norris 2015).

Corresponding author: Guilherme Limberg
guilherme.limberg@usp.br

¹¹ Definition of elemental abundances for a star (\star) relative to the Sun (\odot): $[A/B] = \log(N_A/N_B)_\star - \log(N_A/N_B)_\odot$, where N_A (N_B) is the number density of atoms of element A (B). The adopted composition of the Sun is from Asplund et al. (2009).

Beers et al. (1992) first noted the presence of a surprisingly large number of carbon-enhanced stars among their sample at the lowest metallicities. As the sample sizes increased, it was recognized that the fraction of carbon-enhanced metal-poor (CEMP; $[C/Fe] > +0.7$ and $[Fe/H] < -1.0$) stars indeed rapidly increases with decreasing $[Fe/H]$ (Norris et al. 1997; Rossi et al. 1999, 2005; Lucatello et al. 2006; Lee et al. 2013; Yong et al. 2013b; Placco et al. 2014b; Yoon et al. 2018) and at greater distances from the Galactic plane ($|Z|_{Gal}$; Frebel et al. 2006; Carollo et al. 2012; Lee et al. 2017, 2019; Yoon et al. 2018). This behavior has been proposed to be related to the dual nature of the stellar halo (hereafter “halo”; Carollo et al. 2007, 2010; Beers et al. 2012). It has been suggested that the majority of the CEMP stars in the $[Fe/H] \lesssim -2.5$ regime belong to the CEMP-no subclass, showing no enhancements in neutron-capture elements ($[Ba/Fe] < 0.0$; see Yoon et al. 2016, 2019). These observations support the hypothesis that the CEMP-no stars are the direct descendants of massive Pop III stars that are now long vanished (Ryan et al. 2005; Aoki et al. 2007; Ito et al. 2013; Spite et al. 2013; Tominaga et al. 2014; Keller et al. 2014; Frebel et al. 2015; Roederer et al. 2016; Placco et al. 2016a,b; Aguado et al. 2018; Ezzeddine et al. 2019).

Another peculiarity found in the chemical-abundance profiles of some metal-poor stars is their enhancement in r -process (rapid neutron capture) elements (see Snenen et al. 2008 and Frebel 2018 for reviews on the topic). The qualitative aspects of the formation of these neutron-rich nuclei have been known for many decades (e.g., Burbidge et al. 1957; Cameron 1957). However, the astrophysical site(s) in which the r -process occurs remained speculative up until the photometric and spectroscopic observations of the electromagnetic counterpart AT2017gfo (Arcavi et al. 2017; Drout et al. 2017; Pian et al. 2017; Shappee et al. 2017; Smartt et al. 2017) of the gravitational wave event GW170817 (Abbott et al. 2017a,b,c) of a neutron star merger. These authors concluded that this transient (kilonova) was powered by the radioactive decay of large amounts of r -process elements, in agreement with early theoretical predictions (Lattimer & Schramm 1974). It has been suggested that neutron star mergers are the primary (perhaps the only) source of r -process enrichment in the Galaxy (e.g., Côté et al. 2018; Safarzadeh et al. 2019a; Banerjee et al. 2020; Dvorkin et al. 2020), but other studies (Belczynski et al. 2018; Ji & Frebel 2018; Ji et al. 2019; Côté et al. 2019; Safarzadeh et al. 2019b; Haynes & Kobayashi 2019; Kobayashi et al. 2020) have provided evidence that additional sources may be involved.

In the Gaia era, proper motions (PMs) and parallaxes of exquisite quality have been made available for more than a billion stars (Gaia Collaboration et al. 2016a). The phase-space information, particularly from Gaia Data Release 2 (DR2; Gaia Collaboration et al. 2018), combined with previously available high-

resolution spectroscopic data, has enabled the exploration of the chemo-dynamical properties of these low-metallicity stars. It has been revealed that a large population of EMP and ultra metal-poor (UMP; $[Fe/H] < -4.0$) stars are apparently kinematically connected (similar $|Z|_{Gal}$ and rotational motion around the Galactic center) to the disk system (Sestito et al. 2019, 2020; Cordoni et al. 2020), providing constraints on the assembly of the newborn Milky Way (redshift $z \gtrsim 2$) through its primordial building blocks (Di Matteo et al. 2020; Sestito et al. 2021).

Considering all of the above-mentioned advances, it is clear that numerous VMP and EMP stars are necessary to advance our understanding of the formation and evolution of the Galaxy. The pioneering objective-prism surveys (Bond 1970, 1980; Bidelman & MacConnell 1973; Beers et al. 1985, 1992; Christlieb 2003; Christlieb et al. 2008) have been responsible for the identification of thousands of VMP stars and several hundred EMP stars. Large spectroscopic surveys such as the Sloan Digital Sky Survey (SDSS; York et al. 2000) and its stellar-specific sub-survey Sloan Extension for Galactic Understanding and Exploration (SEGUE; Yanny et al. 2009), the Large Sky Area Multi-object Fiber Spectroscopic Telescope (LAMOST; Cui et al. 2012; Zhao et al. 2012; see also Li et al. 2018b), and the Radial Velocity Experiment (RAVE; Steinmetz et al. 2006) have increased these numbers to tens of thousands of VMP and several thousand EMP stars. Ongoing and planned spectroscopic surveys in the near future (WEAVE: Dalton et al. 2012; 4MOST: de Jong et al. 2012, 2014, Pristine: Starkenburg et al. 2017b; Aguado et al. 2019; Youakim et al. 2020; H3: Conroy et al. 2019a,b; SDSS-V/MWM: Kollmeier et al. 2017) are expected to expand these numbers further.

More recently, the Best & Brightest (B&B; Schlafman & Casey 2014, and see also Casey & Schlafman 2015; Reggiani et al. 2020) initiative has taken advantage of mid-infrared photometry from the Wide-field Infrared Survey Explorer (WISE; Wright et al. 2010) mission, in combination with near-infrared photometry from the Two Micron All Sky Survey (2MASS; Skrutskie et al. 2006), to select almost 12000 low-metallicity candidates. From follow-up spectroscopy of ~ 200 objects in this list, these authors obtained efficiencies of 33% and 4% in finding VMP and EMP stars, respectively. Placco et al. (2019, hereafter P19) have incorporated magnitude (in the V -band), reddening ($E(B - V)$) and PM cuts in the target selection of their own follow-up of stars from the B&B catalog. The more restrictive criteria yielded similar success rates, 42% (VMP) and 2% (EMP), for their much larger sample of ~ 800 candidates, but including fainter targets. The VMP and EMP stars uncovered through the B&B selection have served as targets for high-resolution spectroscopy conducted by the R -Process Alliance (e.g., Holmbeck et al. 2020 and references therein), as they are all brighter than $V = 14$

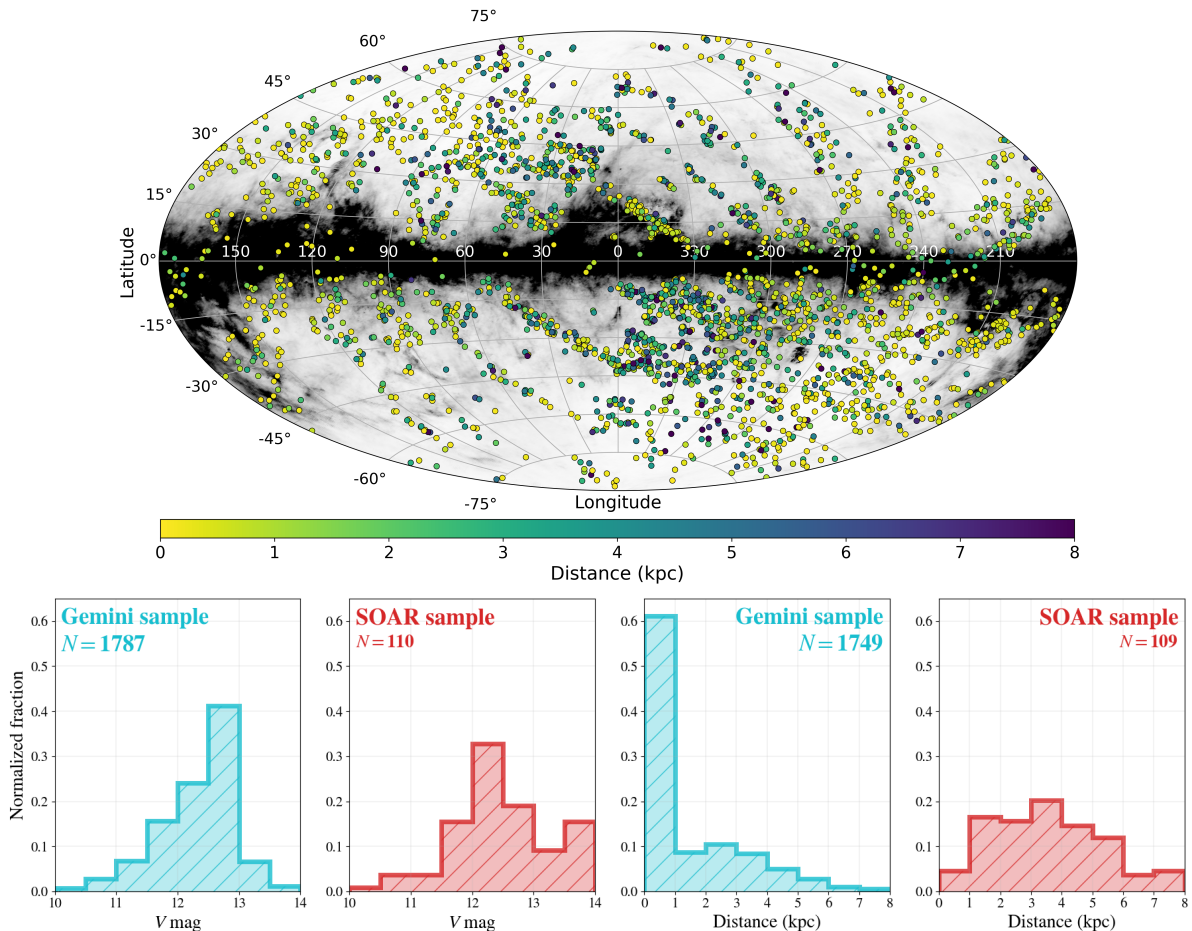


Figure 1. Top panel: Distribution of the Gemini (Section 2.1), SOAR (Section 2.2), and P19 samples in the Galactic coordinate system, color-coded by heliocentric distances (Section 5). The background all-sky distribution of the Galactic reddening comes from the Schlegel et al. (1998) dust map, as re-calibrated by Schlafly & Finkbeiner (2011). The different gray scales represent $E(B-V)$ values from 0.0 (white) to 0.5 (black). Bottom panels: Distributions of V -band magnitudes (Section 2) and heliocentric distance estimates (Section 5) for the Gemini (cyan) and SOAR samples (red). The total number of stars represented in each histogram is also shown in their respective panels.

and can be readily observed with 2.5-m to 6.5-m class telescopes from the ground.

With the advent of Gaia, we have the opportunity to combine astrometric (as discussed in Placco et al. 2018, hereafter P18) and photometric (WISE+2MASS/B&B) information to increase the efficiency in identifying VMP and EMP stars. This should allow us to populate the carbon- and r -process-enhanced classes of metal-poor stars with bright objects much faster, enabling studies of their origins, constraining supernovae nucleosynthesis and chemical evolution models, and probing rare, chemically peculiar targets for future investigations.

The goal of the present work is to identify VMP and EMP stars from the B&B catalog, confirming (or not) their metal-poor nature via low-resolution ($R \sim 2000$) spectroscopy. We also seek to determine carbon and magnesium (representative of the α elements) abundances. Crucially, we incorporate Gaia Early Data Release 3 (EDR3; Gaia Collaboration et al. 2020) astrom-

etry to investigate the effect of kinematic-based target selection on the success rates of finding low-metallicity stars. These criteria can be taken into account for ongoing and future searches for metal-poor stars in the Galaxy. The most interesting VMP and EMP stars vetted by this approach will serve as targets for ongoing and forthcoming high-resolution spectroscopic campaigns. Finally, we revisit the behaviors of VMP star fractions, as functions of both $|Z|_{\text{Gal}}$ and velocities, and the increase of CEMP star fractions with declining metallicity. We also investigate the dynamically interesting VMP/EMP stars with either disk- or halo-like orbits.

This paper is outlined as follows. In Section 2, details of target selection, observations, and data reduction are provided. Section 3 is dedicated to the estimation of stellar atmospheric parameters: effective temperature (T_{eff}), surface gravity ($\log g$), and metallicity (as represented by $[\text{Fe}/\text{H}]$), and also elemental abundances of

Table 1. Coordinates and Observing Details

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
00003305–7953389	4634573766005607552	0.1375	–79.8942	305.7037	–36.9587	SOAR	Goodman	SO-2019B-013
00020162–4430117	4994519032163925632	0.5067	–44.5033	329.4221	–69.9972	SOAR	Goodman	SO-2019B-013
00040305–6106367	4905632480654004608	1.0127	–61.1102	312.9121	–55.0903	Gemini South	GMOS-S	GS-2016A-Q-76
00043646+4124062	384060304935385984	1.1519	41.4017	113.5728	–20.6174	Gemini North	GMOS-N	GN-2017B-Q-75
00045403+3524010	2876804519751163008	1.2251	35.4003	112.3464	–26.5131	Gemini North	GMOS-N	GN-2016A-Q-75

This table is available in its entirety in machine-readable form.

Table 2. Colors, Magnitudes, and Reddening Estimates

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
00003305–7953389	4634573766005607552	12.411	0.775	12.184	1.069	10.804	0.535	0.074
00020162–4430117	4994519032163925632	12.631	0.807	12.397	1.067	11.007	0.567	0.011
00040305–6106367	4905632480654004608	12.818	1.075	12.417	1.466	10.546	0.745	0.010
00043646+4124062	384060304935385984	12.612	1.025	12.371	1.082	10.896	0.643	0.073
00045403+3524010	2876804519751163008	12.174	0.698	11.925	1.011	10.576	0.513	0.063

This table is available in its entirety in machine-readable form.

interest ($[C/Fe]$ and $[Mg/Fe]$). We explore the behaviors of these abundance ratios as functions of $[Fe/H]$ in Section 4. In Section 5, we investigate the kinematics of the selected low-metallicity candidates and examine the improvements in the efficiency of finding VMP stars in the Galaxy. We also analyze the orbits of VMP/EMP in Section 5 in the context of the recent literature. Finally, Section 6 presents a summary of our conclusions.

2. TARGET SELECTION, OBSERVATIONS, AND DATA REDUCTION

All of our targets have been selected as metal-poor candidates by [Schlaufman & Casey \(2014\)](#) as part of the B&B Survey. A total of 1897 stars have been observed with either the Gemini Multi-Object Spectrographs (GMOS-N/S; [Davies et al. 1997](#); [Gimeno et al. 2016](#)) or Goodman spectrograph ([Clemens et al. 2004](#)) at the Gemini (North/South; 8.1 m) and the Southern Astrophysical Research (SOAR; 4.1 m) telescopes, respectively. By design, all candidates are significantly bright ($V \lesssim 14.0$; bottom left panels of Figure 1), which makes them excellent for high-resolution follow-up. The typical signal-to-noise ratio (SNR) of our spectra is $\gtrsim 30$ per pixel at the wavelength region of the Ca II K/H lines (3900–4000 Å). Since the target-selection criteria were different for observations with each instrument, we divide our stars into a “Gemini sample” (Section 2.1) and a “SOAR sample” (Section 2.2). The calibrations in-

cluded bias frames, quartz flats, and arc-lamp exposures. The background subtraction, definition of aperture, extraction of the one-dimensional spectra, and wavelength calibrations for each spectrum have been conducted with standard IRAF ([Tody 1986, 1993](#)) packages.

Pertinent observational information for the stars in our samples are presented in Table 1, including 2MASS names and Gaia EDR3 ([Gaia Collaboration et al. 2020](#)) IDs and coordinates. The different telescopes and instruments are also listed. Table 2 includes relevant photometric information: V , G and J magnitudes and $B - V$, $G_{BP} - G_{RP}$ and $J - K$ colors from AAVSO Photometric All Sky Survey (APASS; [Henden & Munari 2014](#)) DR9, Gaia EDR3 ([Riello et al. 2020](#)), and 2MASS, respectively. The reddening values (Table 2) have been estimated with the [Schlegel et al. \(1998\)](#) dust maps (top panel of Figure 1). These can be easily recalibrated into other $E(B - V)$ systems (e.g., [Schlafly & Finkbeiner 2011](#)).

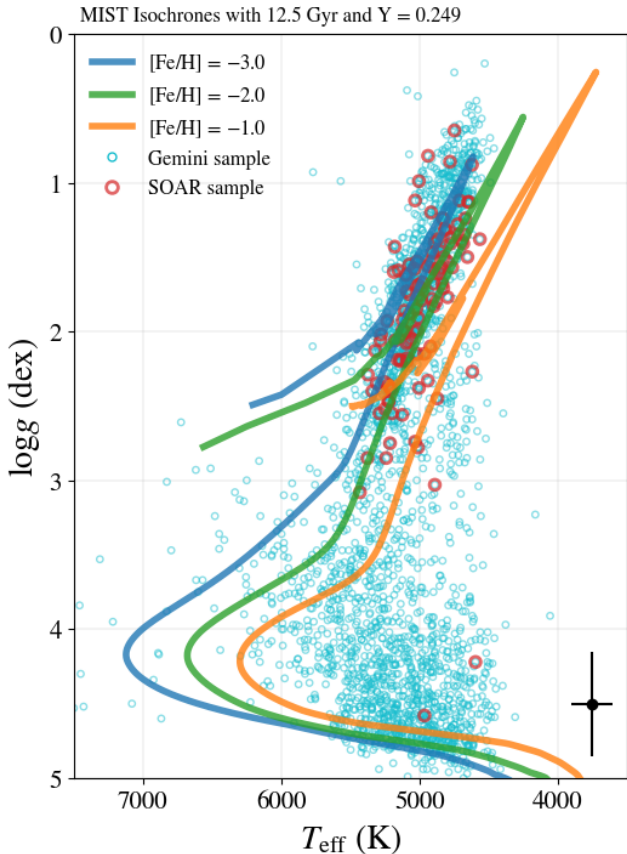


Figure 2. T_{eff} vs. $\log g$ diagram of the Gemini (cyan circles; Section 2.1) and SOAR (red symbols; Section 2.2) samples. Typical uncertainties for these atmospheric parameters (± 150 K for T_{eff} and ± 0.35 dex for $\log g$; Section 3) are represented by the black dot with error bars in the bottom right corner. The colored lines are MESA Isochrones and Stellar Tracks (MIST; Dotter 2016; Choi et al. 2016) isochrones with varying metallicities. The orange, green, and blue isochrones represent $[\text{Fe}/\text{H}] = -1.0$, -2.0 , and -3.0 , respectively. At the top, we list the rest of the conditions employed to generate the MIST stellar population models: Age = 12.5 Gyr and $Y = 0.249$ (primordial He abundance; Planck Collaboration et al. 2016).

2.1. The Gemini Sample

The majority (1787/1897; 94%) of the spectra were acquired with the GMOS-N and GMOS-S spectrographs at Gemini North and South, respectively. The observations in this program were obtained between 2014A and 2019B; the various proposal IDs are listed in Table 1. All observations used $0.5''$ slits. During the semesters 2014A, 2015A, and 2015B, the spectra were obtained with the B1200 1 mm^{-1} G5301 (North) and G5321 (South) gratings, which led to a resolving power of $R \sim 2400\text{--}2800$. For all other observing runs, we have employed the B600 1 mm^{-1} G5307 (North) and

G5323 (South) gratings, resulting in $R \sim 2000\text{--}2600$. The typical wavelength coverage of GMOS-N/S spectra is $3200\text{--}5800 \text{ \AA}$. We have been able to obtain stellar-parameter estimates for all but five stars in this sample (Section 3). The cases for which we have not been able to estimate T_{eff} and $\log g$ were due to low-SNR ($\lesssim 10$ per pixel at $\sim 4000 \text{ \AA}$) spectra and/or large mismatches between the color-based temperatures and the spectroscopic calibrations, which is expected for stars outside the $4000 \leq T_{\text{eff}} \text{ (K)} \leq 7000$ range.

2.2. The SOAR Sample

Unlike the Gemini sample, stars in the SOAR sample took into account phase-space information in the target selection. In P18, PMs from Gaia DR1 (Gaia Collaboration et al. 2016b) and line-of-sight¹² velocities (V_{los}) from the RAVE DR5 (Kunder et al. 2017) had already been used to explore this possibility. The success rate in finding low-metallicity ($[\text{Fe}/\text{H}] \lesssim -1.5$) stars was higher for both larger $|Z|_{\text{Gal}}$ and transverse velocities relative to the Sun (V_{T}). Here, we develop this idea further, and propose an improved, more robust set of criteria. In order to take full advantage of both PMs and V_{los} from Gaia’s past and future DRs, we introduce the quantity “total available velocity” (V_{TAV}), where:

$$V_{\text{TAV}} = \begin{cases} (V_{\text{los}}^2 + V_{\text{T}}^2)^{1/2} & \text{if } V_{\text{los}} \text{ and } V_{\text{T}} \text{ are available;} \\ V_{\text{T}} & \text{if only proper motions are available;} \\ V_{\text{los}} & \text{if only this component is available.} \end{cases} \quad (1)$$

A detailed description, along with the advantages and limitations of the V_{TAV} parameter, is given in Section 5.1. From this definition, the candidates in the SOAR sample have been selected according to: $|Z|_{\text{Gal}} > 0.5$ kpc and $V_{\text{TAV}} > 100 \text{ km s}^{-1}$, derived from the Gaia DR2 data available at the time of observations. In Section 5.2, we provide an in-depth exploration of the Z_{Gal} vs. V_{TAV} diagram, justifying these choices.

With Goodman/SOAR, 110 (6% of the complete sample) metal-poor candidates were observed over the course of the 2018B and 2019B semesters (Table 1). The instrumental setup was similar to the one described in Section 2.1, including a 600 l mm^{-1} grating and a $1.0''$ long slit. The typical wavelength coverage for Goodman/SOAR spectra is $3600\text{--}6200 \text{ \AA}$, and the achieved resolution is $R \sim 1300$. For the SOAR sample, stellar parameters have been derived for all but two stars.

¹² Throughout this work, we employ the “line-of-sight” terminology instead of the more usual “radial velocity” one. We reserve the latter for the radial component of the Galactocentric velocities in the cylindrical coordinate frame (see Section 5.3).

Table 3. Stellar Atmospheric Parameters and Abundances

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
00003305–7953389	4634573766005607552	5280	2.06	−1.93	+0.13	+0.17	6.67	+0.38
00020162–4430117	4994519032163925632	5036	2.00	−1.81	+0.30	+0.37	6.99	...
00040305–6106367	4905632480654004608	4648	4.13	−1.27	+0.15	+0.15	7.31	−0.19
00043646+4124062	384060304935385984	6068	3.51	−1.29	+0.95	+0.95	8.09	+0.14
00045403+3524010	2876804519751163008	5455	3.52	−2.59	+0.50	+0.50	6.34	+0.06

[C/Fe]_c and $A(\text{C})_c$ values have been corrected for evolutionary status (Placco et al. 2014b).

This table is available in its entirety in machine-readable form.

3. STELLAR PARAMETERS AND ABUNDANCES

In order to determine the stellar atmospheric-parameter values (T_{eff} , $\log g$, and [Fe/H]), we have followed the same approach as P18, P19, and Limberg et al. (2021), where the fundamental proxy for metallicity is the Ca II K line (~ 3933 Å). We have employed the n-SSPP (Beers et al. 2014, 2017), a customized version of the Segue Stellar Parameter Pipeline (SSPP; Lee et al. 2008a,b, 2011, 2013). This methodology consists of several routines (e.g., photometric calibrations and spectral-line indices) to derive estimates of the stellar parameters. It also compares the input spectra with a dense grid of synthetic ones in a χ^2 minimization framework. The best set of values is then adopted taking into account the wavelength coverage of the analyzed spectrum, its SNR, and calculated uncertainties.

Considering both samples, the atmospheric parameters have been determined for all but seven stars (out of 1897; see Table 3), as mentioned in Section 2. Based on empirical comparisons with high-resolution spectroscopic analyses (Placco et al. 2014a; Beers et al. 2014, 2017), the typical errors for T_{eff} , $\log g$, and [Fe/H] are ± 150 K, ± 0.35 dex and ± 0.20 dex, respectively, for SNR ~ 30 per pixel at ~ 4000 Å. These estimated atmospheric parameters can be visualized in Figure 2, where the $\log g$ vs. T_{eff} distribution is overlapped by MESA Isochrones and Stellar Tracks (MIST; Dotter 2016; Choi et al. 2016) models with varying metallicities. Overall, we have confirmed that 1064 ($56^{+2}_{-2}\%$ ¹³) of the newly observed stars are metal-poor ([Fe/H] < −1.0), 566 ($30^{+2}_{-2}\%$) are VMP, and 35 ($2^{+1}_{-1}\%$) are EMP. These are very similar proportions to what had been previously achieved by both Schlaufman & Casey (2014) and P19 who performed spectroscopic follow-up with similar selection functions, targets from the B&B Catalog. We

reinforce that, although the targets observed at SOAR were chosen from kinematic criteria, these represent only a small portion of the complete (Gemini+SOAR) sample, hence these comparisons remain valid.

With the n-SSPP pipeline application, we have also obtained [C/Fe] estimates for most stars from both samples. The carbon-to-iron ratios are estimated from the strength of the CH G -band molecular feature (~ 4300 Å). We have also calculated corrections for the [C/Fe] (and $A(\text{C})$ ¹⁴) following the prescriptions of Placco et al. (2014b). These authors employed stellar evolution models (Stancliffe et al. 2009) to account for the intrinsic carbon depletion (with consequent enhancement in nitrogen) in the atmospheres of metal-poor stars due to mixing with internal layers of material enriched by the CN cycle during the red giant branch phase (Charbonnel 1995). The corrected carbon-abundance values are indicated by [C/Fe]_c (or $A(\text{C})_c$) throughout this work, and are listed in Table 3. We also note that metallicities and carbon abundances of cooler ($T_{\text{eff}} \lesssim 4500$ K) CEMP stars found in this work (and other low-resolution efforts) might be severely affected by the presence of “carbon-veiling”, which depresses the continuum in the wavelength region of the Ca II K/H lines, hindering the metallicity determination (see discussion in Yoon et al. 2020). The accuracy for [C/Fe] (and [C/Fe]_c) is 0.20 dex (Lee et al. 2013; Beers et al. 2014, 2017).

The n-SSPP derives the abundances of magnesium from the Mg I triplet absorption lines (located in the range of 5150–5200 Å). For the Gemini sample, Mg-to-iron ratios have been obtained for 1104/1787 (62%) of the stars. For the SOAR sample, 85/110 (77%) stars had $[\alpha/\text{Fe}]$ estimated. The cases for which these abundances are not determined are due to low-quality (SNR $\lesssim 10$) spectra, or absorption features that are too weak to be distinguished from the underlying noise. The typical er-

¹³ Uncertainties in the fractions are given by the Wilson (1927) score approximation, which provides an estimate of the binomial proportion confidence intervals. This approximation is commonly used for small numbers statistics ($n \lesssim 40$), but is also comparable to other metrics when the analyzed sample is larger.

¹⁴ Absolute abundance. $A(\text{X}) = \log \epsilon(\text{X}) = \log(N_{\text{X}}/N_{\text{H}}) + 12$, where N_{X} and N_{H} are the number density of atoms of the given element and of hydrogen, respectively.

rors for $[\text{Mg}/\text{Fe}]$ are also 0.20 dex (Lee et al. 2011; P18; P19). The $[\text{Mg}/\text{Fe}]$ ratios are listed in Table 3.

4. CARBON AND α -ELEMENTS

Carbon-to-iron ratios in low-metallicity stars can constrain their different formation scenarios (see, e.g., Aoki et al. 2002, 2007; Nomoto et al. 2013; Hansen et al. 2016). The α -element abundances are crucial for our classical understanding of Galactic chemical evolution (e.g., Chiappini et al. 1997). Furthermore, the Mg-to-carbon ($[\text{Mg}/\text{C}]$) ratio serves as a diagnostic for the so-called ‘‘mono-enriched’’ population ($[\text{Fe}/\text{H}] \lesssim -2.5$ and $[\text{Mg}/\text{C}] \lesssim -1.0$; Hartwig et al. 2018, see also Rasmussen et al. 2020) which are, potentially, genuine second-generation stars. Figure 3 provides plots of the $[\text{Mg}/\text{Fe}]$ and $A(\text{C})_c$ distributions as functions of $[\text{Fe}/\text{H}]$ (left and right panels, respectively).

We first discuss the α -element abundances. Within the wavelength coverage and resolution of our spectra, the estimated $[\text{Mg}/\text{Fe}]$ is the main representative of the α process. In the metal-rich regime, there is an accumulation of stars at $[\text{Mg}/\text{Fe}] \sim 0.0$ and $[\text{Fe}/\text{H}] \gtrsim -0.5$, associated with the (low- α) thin disk. We also note the presence of stars related to the (high- α) thick disk at $[\text{Mg}/\text{Fe}] \sim +0.3$ and $[\text{Fe}/\text{H}] \gtrsim -1.0$. Since we focus on metal-poor stars, further exploration of these components is beyond the scope of the present work. All estimated magnesium-to-iron ratios are in the range $-0.2 < [\text{Mg}/\text{Fe}] < +0.6$, which is expected from Galactic chemical-evolution models based on high-precision spectroscopy of α elements (Zhao et al. 2016; Reggiani et al. 2017).

Regarding the carbon abundances, we have explored the Yoon-Beers $A(\text{C})$ vs. $[\text{Fe}/\text{H}]$ diagram following the suggested classification of Yoon et al. (2016, 2019). For consistency, we have applied the criteria outlined by P18, also employed in P19, presented in Figure 3 (dashed lines). Besides the $[\text{Fe}/\text{H}] < -1.0$ and $[\text{C}/\text{Fe}]_c > +0.7$ conditions, we consider CEMP stars to be members of the so-called Group I if $A(\text{C})_c \gtrsim 7.25$. Since the carbon enrichment of these stars’ atmospheres are usually accompanied by enhancement in their abundances of slow neutron-capture (s -process) elements (Spite et al. 2013; Bonifacio et al. 2015; Hansen et al. 2015; Cruz et al. 2018), they are generally associated with the CEMP- s ($[\text{Ba}/\text{Fe}] > +1.0$ and $[\text{Ba}/\text{Eu}] > +0.5$; Beers & Christlieb 2005) subclass of CEMP stars. Such a chemical profile is thought to be the result of mass transfer from a binary companion in the asymptotic giant branch (AGB) phase (Suda et al. 2004; Ryan et al. 2005; Lucatello et al. 2005; Bisterzo et al. 2011; Allen et al. 2012; Placco et al. 2013; Starkenburg et al. 2014; Hansen et al. 2016). On the other hand, CEMP stars with $A(\text{C})_c \lesssim 7.25$ are classified as Group II. Unlike the CEMP- s category, these low- $A(\text{C})$ objects do not present over-abundances of s -process elements ($[\text{Ba}/\text{Fe}] < 0.0$; Beers & Christlieb 2005), and are known as CEMP-no stars.

This abundance pattern is the result of pollution of these stars’ birth environments through a single EMP (perhaps metal-free; Heger & Woosley 2010) core-collapse supernovae episode (see Nomoto et al. 2013 for a review). Typically, the $A(\text{C})$ vs. $[\text{Fe}/\text{H}]$ diagram is further partitioned with a Group III, analogous to Group II, but with $[\text{C}/\text{Fe}]_c \gtrsim +1.5$ (Yoon et al. 2016, 2019). These same authors argued that CEMP- s and CEMP-no stars could be distinguished from $A(\text{C})$ alone with $\sim 90\%$ purity. We also note that the Group III stars are generally found at the lowest metallicities ($[\text{Fe}/\text{H}] \lesssim -3.0$), for which we have only a handful of stars in our samples (Section 3). Hence, for simplicity, we have not considered the Group III classification in this work.

We have confirmed that a total of 191 stars in the Gemini+SOAR sample are CEMP stars¹⁵. Out of these, 94 belong to the (Group I) CEMP- s subclass according to the criteria described above. The remaining 97 of our CEMP stars can be classified as Group II (CEMP-no). From Figure 3, not only the overall fraction of CEMP stars increases with decreasing metallicity, but also the CEMP-no class dominates the $[\text{Fe}/\text{H}] \lesssim -2.3$ regime, similar to Yoon et al. (2018), which is in line with the expectation that the emergence of CEMP- s stars in the Galaxy is driven by AGB evolution (Herwig 2005) timescales. On the other hand, all CEMP stars above $[\text{Fe}/\text{H}] \gtrsim -1.8$ are CEMP- s (Group I).

Finally, we have confirmed the trend of increasing CEMP star fractions as a function of declining metallicity. For $[\text{Fe}/\text{H}] < -2.5$, we have found a CEMP star fraction of $32^{+6}_{-6}\%$, compatible (1σ) with both P19 and Schlafman & Casey (2014). We have also found excellent agreement between our results, those from P19, and the high-resolution effort of Placco et al. (2014b). For $[\text{Fe}/\text{H}] < -2.0$, we have obtained $19^{+3}_{-3}\%$. In the $[\text{Fe}/\text{H}] < -3.0$ regime, for which we have very few stars, we have calculated $43^{+16}_{-15}\%$.

5. KINEMATICS OF THE METAL-POOR CANDIDATES

Astrometry can be used to improve the efficiency in the search for VMP stars in the Galaxy. In P18, the Tycho-Gaia Astrometric Solution database (Lindgren et al. 2016) was combined with distances from Astraatmadja & Bailer-Jones (2016) to calculate the Cartesian Galactic positions (X_{Gal} , Y_{Gal} , and Z_{Gal}) and velocities (particularly V_{T}). For $V_{\text{T}} \geq 75 \text{ km s}^{-1}$, the authors noticed a considerable increase in the fractions of metal-poor and VMP stars in their own validation sample of low-metallicity stars from RAVE DR5. However, the full

¹⁵ Note that CEMP stars can be further divided into the CEMP- r ($[\text{Eu}/\text{Fe}] > +0.3$ and $[\text{Ba}/\text{Eu}] < 0.0$) and CEMP- r/s or CEMP- i ($0.0 < [\text{Ba}/\text{Eu}] < +0.5$) categories (Hansen et al. 2018; Ezzeddine et al. 2020). However, these are not considered in this work given the impossibility of classifying them without knowledge of their Ba and Eu abundances.

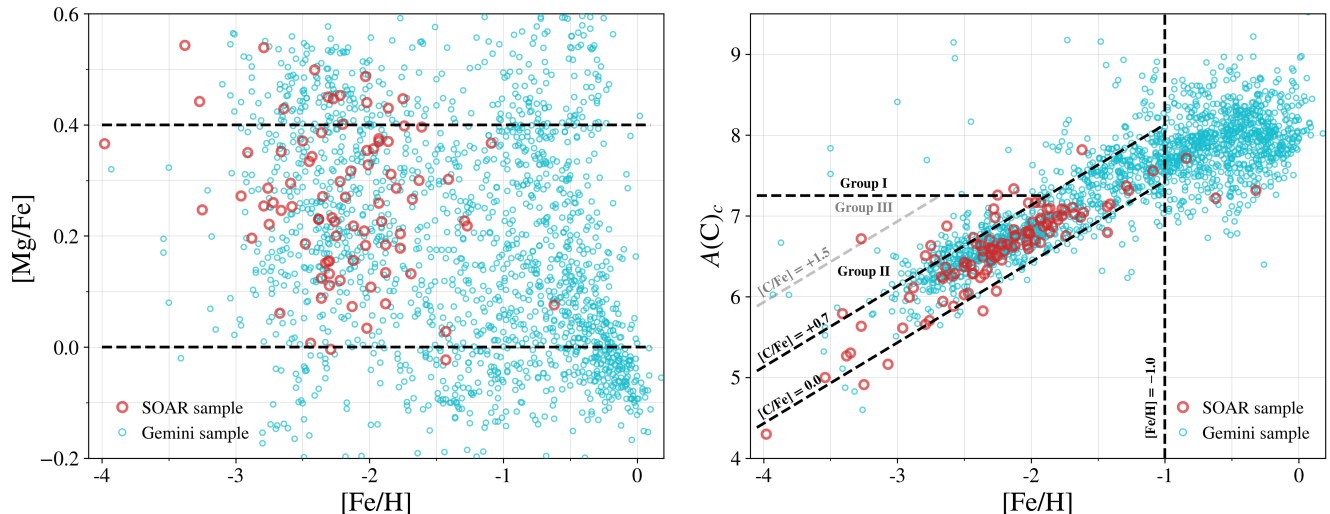


Figure 3. Left panel: Mg-to-iron ratio ($[Mg/Fe]$; Section 4) vs. metallicity ($[Fe/H]$; Section 3). Dashed lines mark different levels of Mg enrichment. Cyan and red open circles correspond to stars in the Gemini (Section 2.1) and SOAR (Section 2.2) samples, respectively, in a color scheme similar to Figures 1 and 2. Right panel: Absolute carbon abundance ($A(C)_c$; Section 4), corrected for evolutionary effects (Placco et al. 2014b), vs. $[Fe/H]$ diagram. Black dashed lines mark the classification for different levels of carbon enhancement according to Yoon et al. (2016, 2019) and considered in this work; see text for details. For convenience, we mark the characteristic region of Group III with a gray line. The vertical line marks the metal-poor limit at $[Fe/H] = -1.0$, for reference.

potential of this approach was still not clear at the time, because (i) those targets were selected with prior information of their metallicities from RAVE’s moderate-resolution ($R \sim 7500$) spectroscopy and (ii) the limited coverage and quality of Gaia DR1 data did not allow for a confident (with small errors) investigation of the majority of their studied stars. In P19, despite this knowledge, the better astrometry from Gaia DR2 was still not available at the time of observations, hence only a simple PM (plus V -band magnitude and reddening) cut was applied. In this work, we seek to explore more fully the influence of kinematic-based target selection in finding VMP and EMP stars, taking advantage of Gaia EDR3 PMs and V_{los} . The results of these analyses will be (and are being) employed in future (and ongoing) observational campaigns.

We have cross-matched both the Gemini and SOAR samples with Gaia EDR3 to acquire accurate V_{los} , parallaxes, and PMs (Table 4). These measured parameters have been converted to the Cartesian Galactic phase-space positions and velocities using the `Astropy` package (Astropy Collaboration et al. 2013, 2018). The assumed in-plane distance from the Sun to the Galactic center is $R_{\odot} = 8.2$ kpc (Bland-Hawthorn & Gerhard 2016), which is compatible with Gravity Collaboration et al. (2019, 2020). We recall that stars in the SOAR sample have been observed with prior knowledge of their kinematics, derived from Gaia DR2 data. For the Gemini sample, matches with Gaia EDR3 have been found for all but two stars (Section 2). Out of these, 1766/1787 (99%) have non-negative parallaxes. The

distances have been calculated through the inversion of these parallaxes¹⁶ after re-calibration ($+0.017 \text{ mas}^{17}$; Lindegren et al. 2020a). For the purpose of our investigation, we have applied a relative error cut, keeping stars with `parallax_over_error` ≥ 1 (see Lindegren et al. 2020b). Despite being very permissive in comparison to the recent literature, this uncertainty cut is consistent with P18, so our study can be directly comparable to theirs, and has the objective of not removing too many candidates. However, we note that, thanks to the improved astrometry of Gaia EDR3 in comparison to DR2, only a handful (~ 80) stars in the full (Gemini+SOAR+P19) sample have `parallax_over_error` ≤ 5 (or missing/negative values). Furthermore, $\sim 91\%$ of all stars observed have `parallax_over_error` ≥ 10 , providing reliability to our kinematic/dynamical calculations.

¹⁶ During the reviewing process of this paper, distances derived from a probabilistic approach have been made available by Bailer-Jones et al. (2021) for sources in Gaia EDR3. Since our sample is fairly local ($\sim 80\%$ within 4 kpc; Figure 1), the differences between these authors’ calculated distances and those adopted here are negligible ($>10\%$ for only a couple of stars). In fact, even considering the full sample (up to ~ 8 kpc), only $\sim 5\%$ of the stars with `parallax_over_error` ≥ 5 show differences $>10\%$ in their distance estimates.

¹⁷ The parallax offset depends in a non-linear, non-trivial way on the (G -band) magnitude and color ($G_{\text{BP}} - G_{\text{RP}}$) of the source. For simplicity, we adopt a global correction equal to the median of quasar’s parallaxes in Gaia EDR3 (Lindegren et al. 2020a).

5.1. Why V_{TAV} ?

In this work, we build on the results presented by P18. One of the refinements that we have made is the introduction of the V_{TAV} quantity (Section 2.2), which demands either PMs or V_{los} , but makes use of their combination whenever both are available. With the goal of performing a comprehensive analysis, we have divided the Z_{Gal} vs. velocity diagrams into four different regions, represented with distinct grayish and white colors in Figure 4. We find that high efficiencies of VMP and EMP detections are achieved even if only one velocity component is known. The ± 0.5 kpc stripe at the center of all panels is motivated by the characteristic scale height of thin-disk stars around the Galactic plane (Recio-Blanco et al. 2014; Li et al. 2018a), which is also consistent with the analysis of P18. The separation at 100 km s^{-1} approximately marks the end of the metal-rich-dominated ($[\text{Fe}/\text{H}] > -2.0$) portion of the diagrams and can be considered a velocity limit between thin-disk ($\lesssim 100 \text{ km s}^{-1}$) and thick disk/halo populations, which is visible from the large concentrations of black dots in Figure 4.

Indeed, it is expected that higher values of velocity should yield greater fractions of genuine halo stars (see Koppelman et al. 2018 and Posti et al. 2018 for recent discussions). However, as is made clear below, the chosen boundaries already produce quite high success rates. The combination of these cuts at ± 0.5 kpc and 100 km s^{-1} defines the various areas in Figure 4. Then, we calculate the fractions of stars showing $[\text{Fe}/\text{H}] \leq -2.0$ (f_{VMP}) in each of these regions. We take these fractions as representative of the efficiency of finding VMP stars in each different portion of the Z_{Gal} vs. velocity diagrams for stars originally identified as possibly metal-poor on the basis of the B&B photometric selection.

In the top panel of Figure 4, only V_{los} is employed, in combination with Z_{Gal} , to explore the f_{VMP} in the P19 sample. Although high success rates already appear for $|Z_{\text{Gal}}| \geq 0.5$ kpc, the number of available candidates in the P19 sample is reduced to approximately half of its total. In the middle panel of Figure 4, the $(Z_{\text{Gal}}, V_{\text{T}})$ space is displayed, similar to the figures presented by P18. We note that almost the entire P19 sample has suitable PMs and parallaxes from Gaia EDR3, allowing us to calculate accurate V_{T} for these stars. The f_{VMP} in the white regions of the $(Z_{\text{Gal}}, V_{\text{T}})$ diagram remains statistically the same as the $(Z_{\text{Gal}}, V_{\text{los}})$ one, but the number of stars has more than tripled, which is advantageous for planning an observational campaign.

The bottom panel of Figure 4 shows the Z_{Gal} vs. V_{TAV} diagram for the P19 sample. Once more, the f_{VMP} in each area of the diagram is similar to previous panels, but there is an increase of $\sim 13\%$ in the number of stars in the $|Z_{\text{Gal}}| \geq 0.5$ kpc and $V_{\text{TAV}} \geq 100 \text{ km s}^{-1}$ region, while maintaining high efficiency, almost double the f_{VMP} achieved by P19. This finding inspired

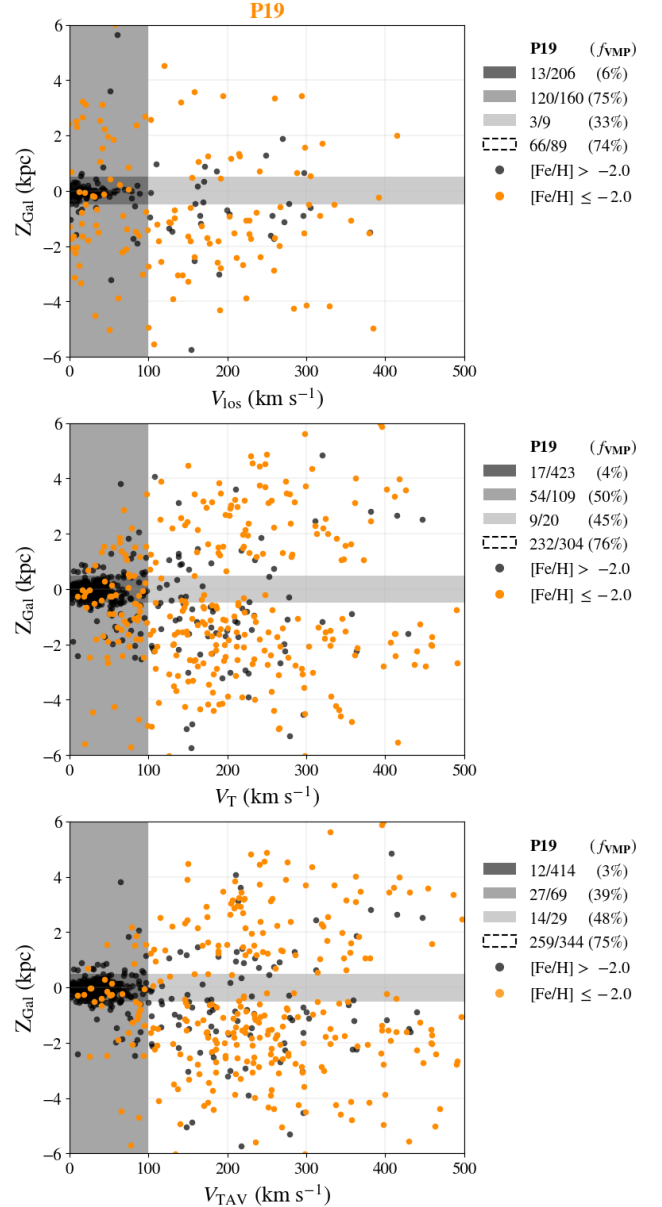


Figure 4. Diagrams of the P19 sample for Z_{Gal} vs. different components of velocity: V_{los} (top panel), V_{T} (middle), and V_{TAV} (bottom panel). To the right of each panel, the fractions of VMP stars for each gray-shaded and white regions are presented. The black and orange dots represent stars with $[\text{Fe}/\text{H}] > -2.0$ and VMP stars, respectively

the target-selection criteria for observations with Goodman/SOAR. Even though we had the prospect of improvements, we were surprised by these results, since the B&B catalog is by-design biased towards metal-poor stars. In general, from top to bottom, one can notice the increasing number of points in each diagram of Figure 4, but maintaining statistically equivalent success rates for the different regions, demonstrating the advantages of employing the V_{TAV} parameter.

Table 4. Phase-space Information from Gaia EDR3

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
00003305–7953389	4634573766005607552	269.3	2.51	0.06	–4.538	–4.538	–1.48	274.3
00020162–4430117	4994519032163925632	58.5	3.13	0.19	14.656	14.656	–2.92	202.6
00040305–6106367	4905632480654004608	–6.0	0.12	0.00	53.448	53.448	–0.07	15.7
00043646+4124062	384060304935385984	–13.7	1.01	0.01	–7.058	–7.058	–0.33	28.8
00045403+3524010	2876804519751163008	–91.5	1.06	0.02	9.525	9.525	–0.45	154.2

This table is available in its entirety in machine-readable form.

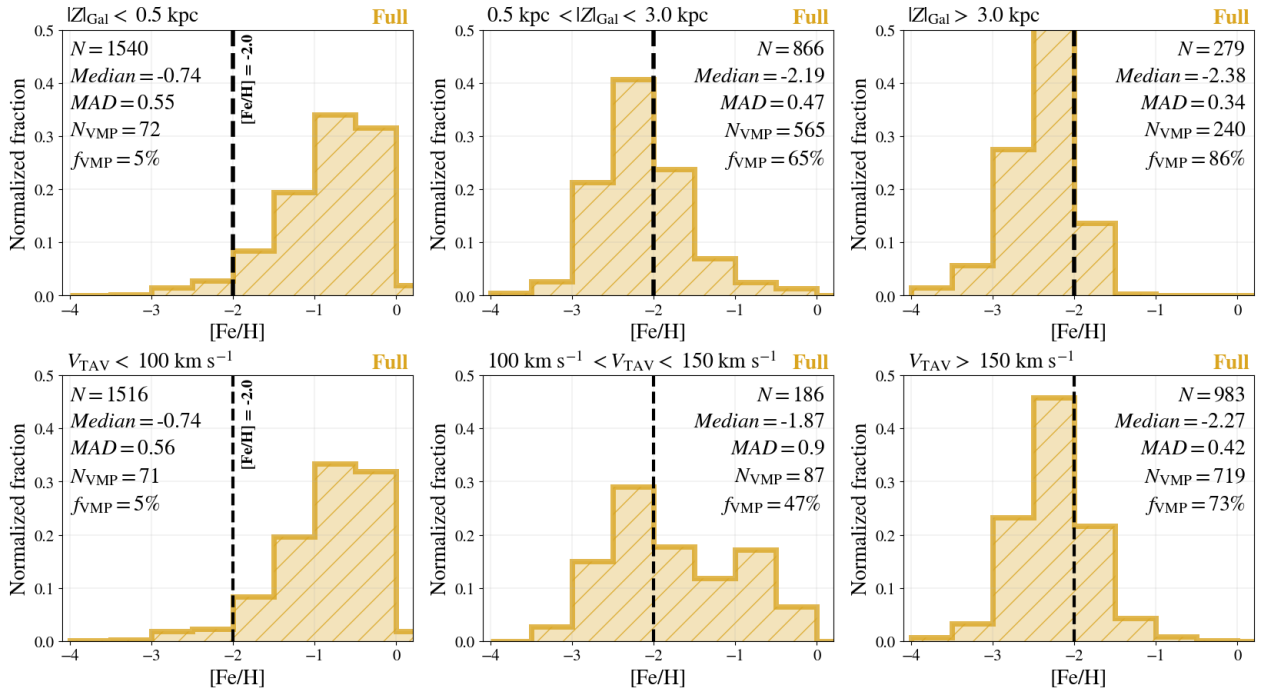


Figure 5. Metallicity distribution functions (MDFs) of stars observed from the B&B catalog. The histograms present the normalized fractions; the total number of stars in each panel (N) is provided. Top panels: MDFs of the full (Gemini+SOAR+P19) sample for the slices: $|Z|_{\text{Gal}} < 0.5$ kpc, $0.5 < |Z|_{\text{Gal}}$ (kpc) < 3.0 , and $|Z|_{\text{Gal}} > 3.0$ kpc (left, middle, and right, respectively). Bottom panels: MDFs of the full sample, but for various ranges of V_{TAV} : $V_{\text{TAV}} < 100$ km s $^{-1}$, $100 < V_{\text{TAV}}$ (km s $^{-1}$) < 150 and $V_{\text{TAV}} > 150$ km s $^{-1}$ (left, middle, and right, respectively). The median [Fe/H], median absolute deviation (MAD), the total number (N_{VMP}), and the fraction of VMP stars (f_{VMP}) are shown in each panel. The dashed vertical lines mark the VMP limit at [Fe/H] = -2.0 , for reference.

5.2. Z_{Gal} vs. V_{TAV} Diagrams and Final Success Rates

The individual impact of variations in $|Z|_{\text{Gal}}$ and V_{TAV} in the metallicity distribution function (MDF) of the full B&B sample are presented from the top and bottom rows of Figure 5, respectively. In the thin-disk-like regions ($|Z|_{\text{Gal}} < 0.5$ kpc and $V_{\text{TAV}} < 100$ km s $^{-1}$; left column), the MDFs peak at [Fe/H] ~ -0.7 and the f_{VMP} is only $\sim 5\%$. However, as we move to higher values of $|Z|_{\text{Gal}}$, the peak of the MDF is shifted to the VMP regime already at $|Z|_{\text{Gal}} > 0.5$ kpc (mid-

dle). The f_{VMP} reaches 86% for $|Z|_{\text{Gal}} > 3.0$ kpc (right), which reflects the lower metallicity of the Galactic halo in comparison to the canonical disk system, despite the already low-metallicity-biased B&B selection. For the V_{TAV} quantity, this transition is smoother, noticeable from the extended MDF within the range $100 < V_{\text{TAV}}$ (km s $^{-1}$) < 150 (middle column). However, the f_{VMP} significantly increases at $V_{\text{TAV}} > 150$ km s $^{-1}$ (right).

Figure 6 presents the Z_{Gal} vs. V_{TAV} diagrams for the Gemini and SOAR samples. Colored symbols are VMP

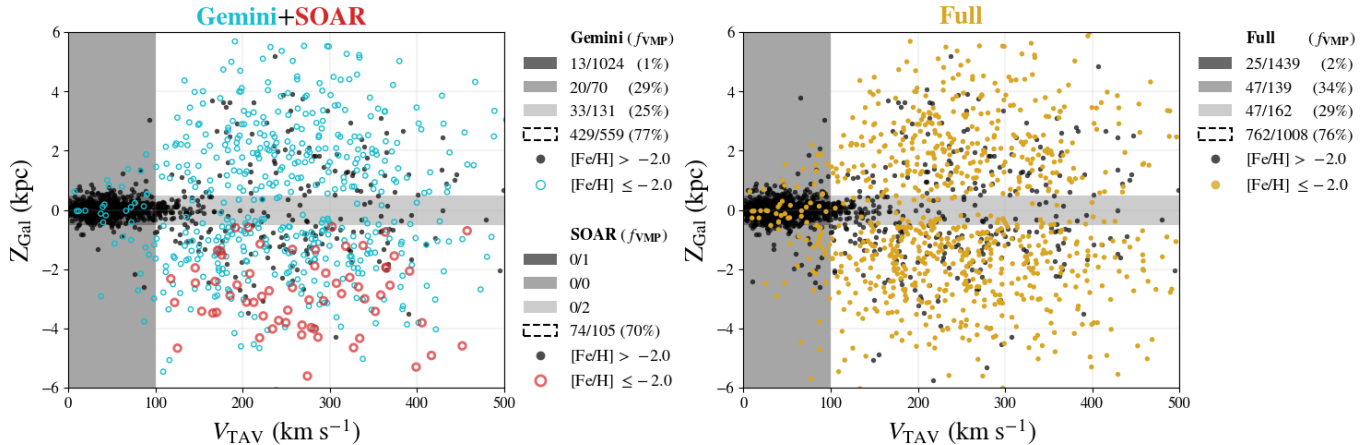


Figure 6. Z_{Gal} vs. V_{TAV} diagrams. Left: Distribution of stars from Gemini (Section 2.1) and SOAR (Section 2.2) samples. Right: Distribution of stars from the full (Gemini+SOAR+P19) sample. Colored symbols are VMP stars, while the black ones have $[\text{Fe}/\text{H}] > -2.0$. Both panels are shown with a color scheme similar to Figures 1, 2, 3, and 5. Specific VMP fractions are also provided for each gray-shaded and white regions (see text and Table 5 for details) to the right of each panel.

Table 5. Regions of the Z_{Gal} vs. V_{TAV} Diagrams and Final Success Rates for Different Metallicities

Region (Color)	$|Z|_{\text{Gal}}$ (kpc)	V_{TAV} (km s^{-1})	$[\text{Fe}/\text{H}]$ ≤ -1.5	$[\text{Fe}/\text{H}]$ ≤ -2.0	$[\text{Fe}/\text{H}]$ ≤ -2.5	$[\text{Fe}/\text{H}]$ ≤ -3.0
Dark gray	< 0.5	< 100	$8_{-1}^{+2}\%$	$2_{-1}^{+1}\%$	$1_{-0}^{+1}\%$	$0_{-0}^{+0}\%$
Medium gray	≥ 0.5	< 100	$58_{-8}^{+8}\%$	$34_{-7}^{+8}\%$	$17_{-5}^{+7}\%$	$3_{-2}^{+4}\%$
Light gray	< 0.5	≥ 100	$52_{-8}^{+8}\%$	$29_{-6}^{+7}\%$	$9_{-4}^{+6}\%$	$1_{-1}^{+3}\%$
White	≥ 0.5	≥ 100	$96_{-1}^{+1}\%$	$76_{-3}^{+3}\%$	$28_{-3}^{+3}\%$	$4_{-1}^{+1}\%$

stars spectroscopically confirmed by the present work, following the same color scheme as Figures 1, 2, 3, and 5, while the black dots are those with $[\text{Fe}/\text{H}] > -2.0$. The left panel shows the distributions of stars from Gemini and SOAR samples in this parameter space. Given the target selection described in Section 2.2, the majority of stars observed from SOAR occupy the most interesting regions of the Z_{Gal} vs. V_{TAV} diagram. Interestingly, the few cases in which they are outside the VMP regions originate from differences between the Gaia DR2 and EDR3 parameters. The right panel presents the (Z_{Gal} , V_{TAV}) space of the full sample, including that from P19.

The f_{VMP} in each of the gray-shaded and white regions of the Z_{Gal} vs. V_{TAV} diagrams are also provided in Figure 6. Table 5 lists the final success rates for each region and for various metallicity regimes ($[\text{Fe}/\text{H}] \leq -1.5$, ≤ -2.0 , ≤ -2.5 , and ≤ -3.0), along with their respective $|Z|_{\text{Gal}}$ and V_{TAV} boundaries. These final efficiencies are drawn from the full sample for better statistics. Particularly in the white regions ($|Z|_{\text{Gal}} \geq 0.5$ kpc and $V_{\text{TAV}} \geq 100$ km s^{-1}), the thick disk/halo-like ones, the fractions of stars within $[\text{Fe}/\text{H}] \leq -1.5$, ≤ -2.0 , ≤ -2.5 , and ≤ -3.0 are 96%, 76%, 28%, and

4%, respectively. Such effectiveness in the search for low-metallicity stars in the Galaxy are only rivaled by those with prior narrow-band photometry at the wavelength of the Ca II K line (e.g., Youakim et al. 2017; Aguado et al. 2019; Da Costa et al. 2019). In the near future, we expect to be able to combine the astrometric information from Gaia’s DRs with narrow-band photometry from, e.g., S-PLUS (Southern-Photometric Local Universe Survey; Mendes de Oliveira et al. 2019), J-PLUS (Javalambre-Photometric Local Universe Survey; Cenarro et al. 2019), and J-PAS (Javalambre-Physics of the Accelerating Universe Astrophysical Survey; Bonoli et al. 2020) to obtain even better success rates, particularly in the EMP regime.

5.3. Toomre Diagrams

For comparison, we have also investigated the success rates in finding low-metallicity stars using a kinematic-based target selection within different regions of the Toomre diagram (Figure 7). The peculiar motion of the Sun with respect to the local standard of rest (LSR) is $(U, V, W)_{\odot} = (11.10, 12.24, 7.25)$ km s^{-1} (Schönrich et al. 2010). The adopted velocity of the LSR is $V_{\text{LSR}} = (0.0, 232.8, 0.0)$ km s^{-1} (McMillan 2017). Re-

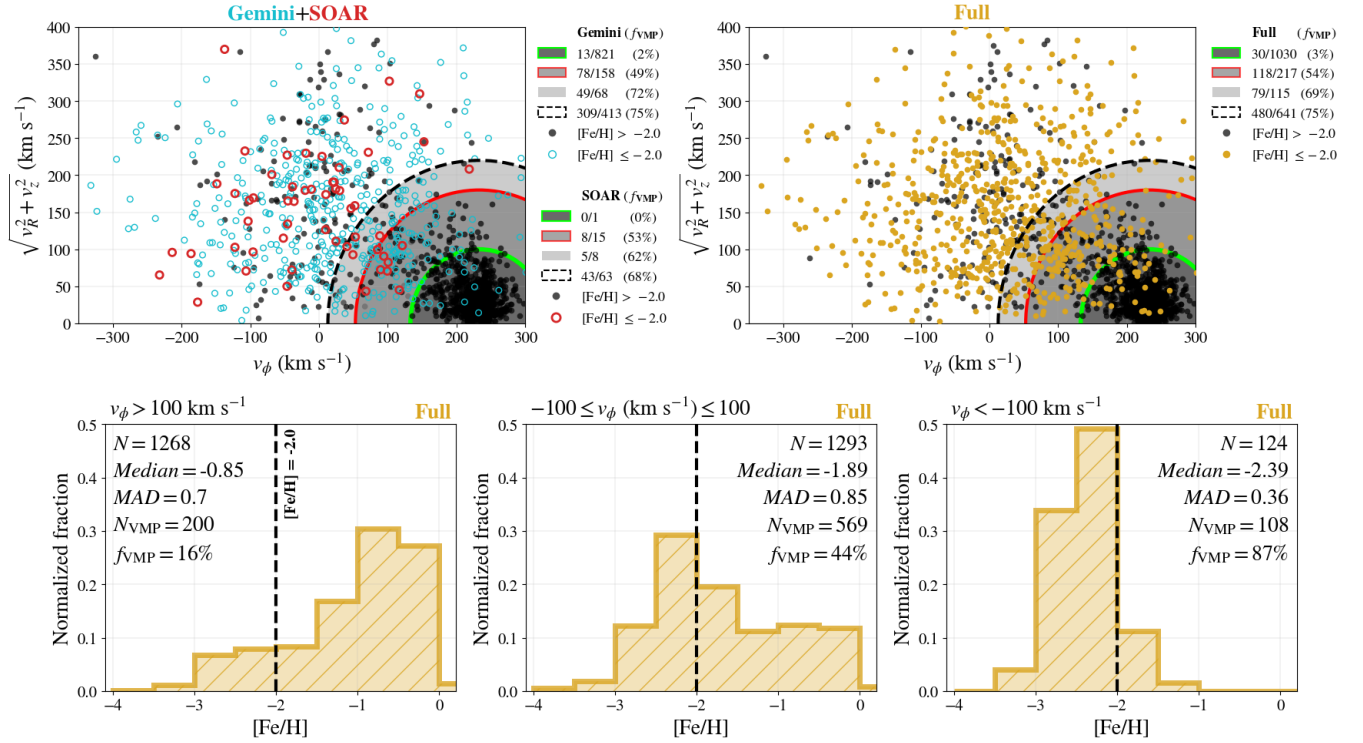


Figure 7. Top panels: Toomre diagrams ($\sqrt{v_R^2 + v_z^2}$ vs. v_ϕ). Top left: Gemini (Section 2.1) and SOAR (Section 2.2) samples. Top right: Full (Gemini+SOAR+P19) sample. Stars that are VMP are represented with colored symbols in the same color scheme as Figures 1, 2, 3, 5, and 6. Black dots are stars with $[\text{Fe}/\text{H}] > -2.0$. The green and red solid lines mark the velocity boundaries for the thin ($|V_{\text{total}} - V_{\text{LSR}}| < 100 \text{ km s}^{-1}$; dark gray) and thick disks ($100 \text{ km s}^{-1} \leq |V_{\text{total}} - V_{\text{LSR}}| < 180 \text{ km s}^{-1}$; medium gray), respectively (see text). The dashed line marks the transition region ($180 \text{ km s}^{-1} \leq |V_{\text{total}} - V_{\text{LSR}}| < 220 \text{ km s}^{-1}$; light gray stripe) between the thick disk and halo. Finally, the halo is defined by $|V_{\text{total}} - V_{\text{LSR}}| \geq 220 \text{ km s}^{-1}$ (white region). To the right of each panel, the specific VMP fractions (f_{VMP}) in each of the described areas in $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space are provided. Bottom panels: Metallicity distribution functions (MDFs) of the full sample for various intervals of v_ϕ . Bottom left: $v_\phi > 100 \text{ km s}^{-1}$. Bottom middle: $-100 \leq v_\phi \leq 100 \text{ km s}^{-1}$. Bottom right: $v_\phi < -100 \text{ km s}^{-1}$. The total numbers of stars (N), the medians, median absolute deviations (MAD), the numbers (N_{VMP}), and the fractions (f_{VMP}) of VMP stars are also displayed in the corresponding panels. The dashed vertical lines mark the VMP limit at $[\text{Fe}/\text{H}] = -2.0$, for reference.

cently, purely acceleration-based estimates of the Galactic fundamental parameters have been made available, thanks to the direct measurement of the Solar System’s acceleration from Gaia EDR3 astrometry. Nevertheless, the values adopted here have been chosen due to their consistency with the Galactic model of McMillan (2017), which will be employed for orbit integration in Section 5.4. Figure 7 shows the $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space, where (v_R, v_ϕ, v_z) compose the velocity vector of each star in the cylindrical coordinate system (radial, azimuthal, and vertical directions, respectively). Stars in prograde motion have $v_\phi > 0$. Note that it is necessary to have measured V_{los} in order to calculate the complete set of (v_R, v_ϕ, v_z) . This is a clear disadvantage in utilizing the Toomre diagram for selecting targets for systematic searches of low-metallicity stars, since many targets would be ignored due to lack of available V_{los} . Therefore, we wish to evaluate whether or not the efficiency in finding VMP stars is hindered by the application of Z_{Gal} vs. V_{TAV} diagram in comparison to $\sqrt{v_R^2 + v_z^2}$ vs.

v_ϕ , where the complete phase-space vector needs to be available. In this context, we also study changes in the full sample’s MDF with v_ϕ (see Figure 7).

For consistency with the analysis presented in Section 5.2, we have divided the Toomre diagrams into four regions, similar to what has been done for the $(Z_{\text{Gal}}, V_{\text{TAV}})$ space. In Figure 7, these are displayed in an arrangement similar to Figure 6, with a gray scale tentatively representing different Galactic components. Stars that are VMP are shown with colored symbols in the same color scheme as Figures 1, 2, 3, 5, and 6. The dark gray area with a green contour contains stars within $|V_{\text{total}} - V_{\text{LSR}}| < 100 \text{ km s}^{-1}$, where V_{total} is the complete velocity vector of a given star. This is the most crowded zone in both top panels of Figure 7, which is noticeable from the accumulation of black points around $v_\phi \sim V_{\text{LSR}}$. This region in velocity space is representative of the thin disk (e.g., Venn et al. 2004; Bensby et al. 2014), and is also recognizable from its $f_{\text{VMP}} \lesssim 3\%$ in both diagrams of Figure 7, despite the B&B selection.

The predominance of this component is also perceptible from the MDF of stars with $v_\phi > 100 \text{ km s}^{-1}$ (bottom left panel of Figure 7). This MDF peaks at $[\text{Fe}/\text{H}] \sim -0.8$, but also shows an extended VMP tail associated with the thick disk and prograde portion of the halo.

Moving radially outwards from the thin-disk region of the $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space, the medium gray area in between the green and red lines is defined by $100 \text{ km s}^{-1} \leq |V_{\text{total}} - V_{\text{LSR}}| < 180 \text{ km s}^{-1}$, and is characteristic of the thick disk (see, e.g., [Amarante et al. 2020b](#) for a recent discussion). A noteworthy feature of the Toomre diagrams in Figure 7 is the presence of high fractions ($\gtrsim 50\%$) of VMP stars in this thick-disk-like slice of the velocity space. We speculate that this feature is also due to the underlying B&B selection. This finding has led us to scrutinize the presence of VMP and EMP stars associated with the Galactic disks further in Section 5.4.

The light gray stripe, defined by the dashed and red solid lines in Figure 7 ($180 \text{ km s}^{-1} \leq |V_{\text{total}} - V_{\text{LSR}}| < 220 \text{ km s}^{-1}$), comprises the tail of the velocity distribution of the Galactic disk (e.g., [Bonaca et al. 2017](#) and [Koppelman et al. 2018](#)). This transition region between thick disk and halo also contains stars from the “splashed disk” ([Belokurov et al. 2020](#); [Amarante et al. 2020a](#); [An & Beers 2020](#)), considered to be the metal-rich, *in-situ* counterpart of the halo ([Bonaca et al. 2017, 2020](#); [Haywood et al. 2018](#); [Gallart et al. 2019](#); [Di Matteo et al. 2019](#)). The f_{VMP} in this area of the $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space is statistically equivalent to the halo selection.

We note that the concentration of stars within $-50 \lesssim v_\phi \text{ (km s}^{-1}\text{)} \lesssim +50$, permeating all values of $\sqrt{v_R^2 + v_z^2}$, is reminiscent of the Gaia-Sausage/Enceladus (GSE) merging event ([Belokurov et al. 2018](#); [Haywood et al. 2018](#); [Helmi et al. 2018](#)). However, considering v_ϕ alone, we also note the extended MDF shown in the bottom middle panel of Figure 7 ($-100 \leq v_\phi \text{ (km s}^{-1}\text{)} \leq 100$), which peaks between $-2.5 < [\text{Fe}/\text{H}] < -2.0$, but has a prominent metal-rich tail linked to the thick and splashed disks. On the other hand, the MDF in the $v_\phi < -100 \text{ km s}^{-1}$ panel of Figure 7 (bottom right) is almost entirely comprised by VMP stars. These stars might also be associated with previously identified halo substructures, e.g., Sequoia ([Myeong et al. 2019](#)) and Thamnos ([Koppelman et al. 2019](#)). Indeed, independent efforts have suggested that these retrograde groups are more metal-poor than GSE ([Matsumo et al. 2019](#); [Monty et al. 2020](#); [Dietz et al. 2020](#); [Kordopatis et al. 2020](#)). Nevertheless, these supposed remnants of now-destroyed dwarf galaxies are also of interest to this work, particularly because, recently, large numbers of VMP stars, including those exhibiting *r*-process-element enhancement ([Gudin et al. 2021](#)), have been demonstrated to be associated with them ([Yuan et al. 2020](#); [Limberg et al. 2021](#); see Section 5.4).

Finally, the black dashed line delineates the $|V_{\text{total}} - V_{\text{LSR}}| \geq 220 \text{ km s}^{-1}$ zone of the Toomre diagrams. These are the white areas in both top panels of Fig-

ure 7. Stars inhabiting this part of the $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space are from either the *in-situ* or accreted components of the halo. The f_{VMP} of the full sample in this white region is similar to the one found for the halo-like portions of the Z_{Gal} vs. V_{TAV} diagram in Section 5.2. Nonetheless, we have found no statistical differences in f_{VMP} between the prograde and retrograde components of the halo. To conclude, kinematic criteria based on the $(Z_{\text{Gal}}, V_{\text{TAV}})$ space can be as efficient as the traditional Toomre diagram in finding low-metallicity stars, with the additional advantage of not needing prior measurement of V_{los} , thus enabling access to a larger number of candidates, while making optimal usage of this parameter whenever it is available. Thus, we recommend consideration of the V_{TAV} quantity for the target selection of observational campaigns aiming to find VMP and EMP stars in the Galaxy.

5.4. Orbits of VMP/EMP Stars

We now examine the presence of dynamically interesting stars in all samples, which will become priority targets for high-resolution follow-up. First, we check for VMP and EMP stars residing in the kinematically defined thick disk (Section 5.3). In order to confirm whether or not these stars are truly confined to the disk system, we have integrated their orbits with the publicly available library AGAMA ([Vasiliev 2019](#)) forward in time for ~ 5 Gyr. The Galactic model employed is from [McMillan \(2017\)](#), and includes stellar and gaseous disks, a flattened bulge, and a spherical dark matter halo. The assumptions regarding the Galactic fundamental parameters are the same as Sections 5 and 5.3. The V_{los} have been acquired from Gaia EDR3, where available, but we have only considered stars with `parallax_over_error` ≥ 5 for this exercise. We have performed 1000 realizations of each star’s orbit according to its uncertainties in the astrometric quantities, assuming Gaussian distributions for them. The medians of each dynamical parameter have been taken as our nominal values. Our investigation is focused on the maximum vertical distance achieved during a star’s orbit (Z_{max}), the perigalactic distance (r_{min}), the apogalactic distance (r_{max}), eccentricity ($e = (r_{\text{max}} - r_{\text{min}})/(r_{\text{max}} + r_{\text{min}})$), orbital energy (E), and the vertical component of angular momentum $L_z = R_{\text{Gal}} \times v_\phi$, where $R_{\text{Gal}} = \sqrt{X_{\text{Gal}}^2 + Y_{\text{Gal}}^2}$ is the plane-projected distance of a given star from the Galactic center.

The top panel of Figure 8 shows the distribution of the full sample in the Z_{max} vs. r_{max} space. A star is considered to be on a planar orbit if its $Z_{\text{max}} \leq 3$ kpc. The transition between the thick disk and halo is smooth in this diagram, as already noticed from the full sample’s MDFs for different slices of both $|Z|_{\text{Gal}}$ (Figure 5) and v_ϕ (Figure 7). However, the Z_{max} limit at 3 kpc reflects the recently estimated scale height of the thick disk by [Li & Zhao \(2017\)](#). Crucially, it is also consistent with what has been considered in the analyses of

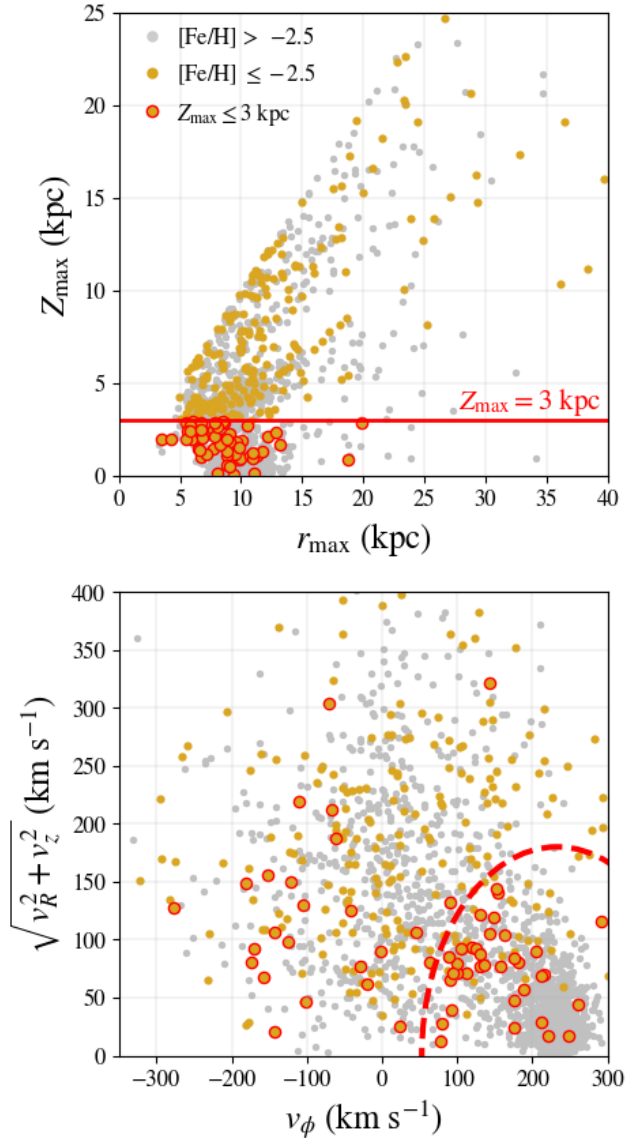


Figure 8. Top panel: Z_{\max} vs. r_{\max} . The red horizontal line at $Z_{\max} = 3$ kpc marks the limit for stars considered to be on planar or halo-like orbits in our analysis (see text). Bottom panel: Toomre diagram, similar to Figure 7. The red dashed line marks the $|V_{\text{total}} - V_{\text{LSR}}| = 180$ km s $^{-1}$ boundary between the thick disk and the transition region as in Section 5.3. In both panels, gray dots represent stars with metallicities $[\text{Fe}/\text{H}] > -2.5$. Stars with $[\text{Fe}/\text{H}] \leq -2.5$ are displayed as yellow dots. Among these, the planar ones are plotted with red edges.

Sestito et al. 2019, 2020. Interestingly, a separation between thick disk and halo at $Z_{\max} \sim 3$ kpc has also been achieved by Pérez-Villegas et al. (2020) in their independent analysis of orbits of Galactic globular clusters. We have paid particular attention to stars with $[\text{Fe}/\text{H}] \leq -2.5$, as these are potential members of the aforemen-

tioned mono-enriched class (Hartwig et al. 2018). Hence, this metallicity cutoff is, apparently, more physically significant than the classic definitions of VMP and EMP stars, and is also consistent with the analyses of Sestito et al. (2020, 2021). For convenience, throughout this section, we refer to a star as “VMP/EMP” when $[\text{Fe}/\text{H}] \leq -2.5$. A total of 275 stars in the full sample are consistent with this metallicity regime. These are shown as yellow dots in Figure 8, while those with $[\text{Fe}/\text{H}] > -2.5$ are represented in gray. All VMP/EMP stars on planar orbits are plotted with red edges, and correspond to a fraction of $22^{+5}_{-4}\%$ ($60/275$), consistent with both Sestito et al. (2020) and Cordoni et al. (2020), despite our small biases towards halo kinematics (Section 2).

The bottom panel of Figure 8 presents the Toomre diagram for the full sample, divided according to the prescription above. One can see that there is a substantial number of VMP/EMP stars on low- Z_{\max} orbits occupying the region of the $(\sqrt{v_R^2 + v_z^2}, v_\phi)$ space characteristic of the thin and thick disks, as conjectured in Sections 5.2 and 5.3. These stars can be considered part of the third stellar population that resides in the Galactic disk, known as the metal-weak thick disk (MWTD; Norris et al. 1985; Morrison et al. 1990; Beers & Sommer-Larsen 1995; Bonifacio et al. 1999; Chiba & Beers 2000; Beers et al. 2002, 2014; Brown et al. 2008; Reddy & Lambert 2008; Kordopatis et al. 2013; Carollo et al. 2014, 2019; Hawkins et al. 2015; Li & Zhao 2017; Li et al. 2018a; An & Beers 2020; Di Matteo et al. 2020). Despite early suggestions that the MDF of the MWTD might extend down to the VMP/EMP regime (Beers & Sommer-Larsen 1995; Bonifacio et al. 1999), confirmation with large numbers of VMP/EMP stars was only possible thanks to the powerful combination of Gaia DR2 with large-scale spectroscopic surveys (e.g., LAMOST; Sestito et al. 2020). In fact, there is increasing evidence for the existence of an “ultra”-MWTD, reaching metallicities < -4.0 (Sestito et al. 2019; Cordoni et al. 2020; Di Matteo et al. 2020). An UMP star has even been found in the thin disk ($Z_{\max} < 0.5$ kpc; $e < 0.2$) (Schlaufman et al. 2018). On the other hand, about a third of the planar VMP/EMP stars are rotating counter to the Galactic disks, some of them with $v_\phi \lesssim -100$ km s $^{-1}$.

The VMP/EMP stars on planar orbits are of crucial importance to constrain the early formation of the Galaxy. Recent cosmological zoom-in simulations have been pointing to the majority of VMP/EMP stars being born very early on ($z \gtrsim 5$), but mostly *ex-situ*, in primordial galaxies that have been accreted by the main progenitor through hierarchical assembly up until $z \sim 1$ (Starkenburger et al. 2017a; El-Badry et al. 2018). Hence, these objects would be deposited into the main halo with a variety of different orbits, either prograde or retrograde (Sestito et al. 2021), and become phase-space mixed with those of *in-situ* origin. However, given the presence of the ultra-MWTD, indistinguishable from the canonical thick disk from kinematics alone, Di Matteo et al.

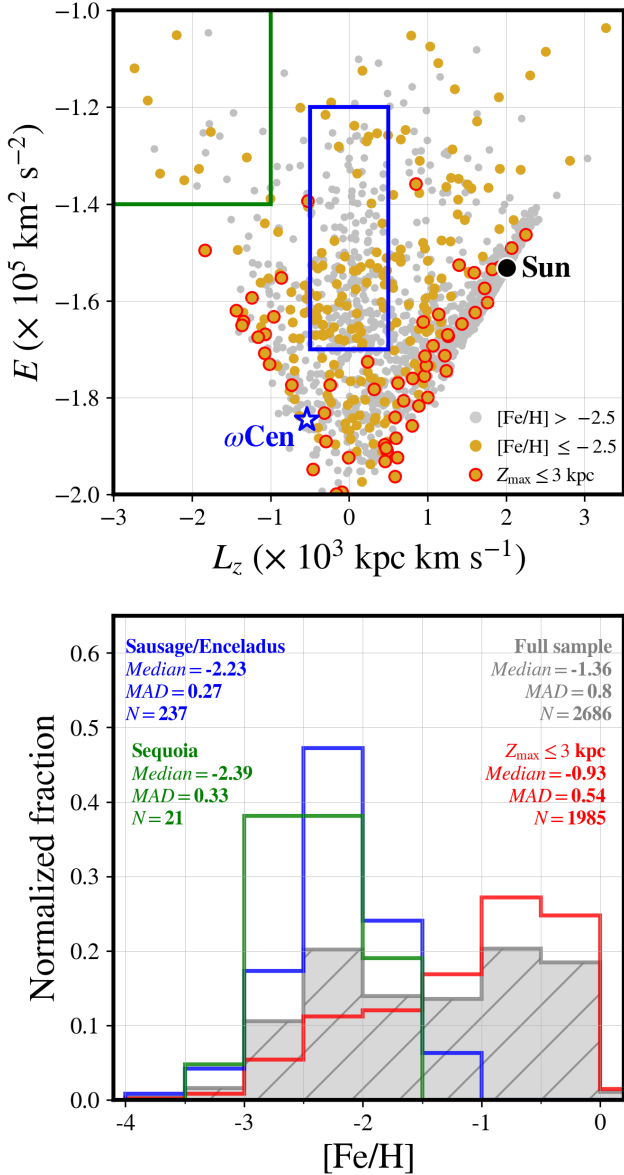


Figure 9. Top panel: E vs. L_z . The position of the Sun is indicated with a black circle: $(E, L_z)_{\odot} = (-1.5 \times 10^5 \text{ km}^2 \text{ s}^{-2}, +2.0 \times 10^3 \text{ kpc km s}^{-1})$. The blue solid lines delineate our selection box for Gaia-Sausage/Enceladus (GSE; see text) stars. The blue star shows the position of the ω Centauri globular cluster: $(E, L_z)_{\omega\text{Cen}} = (-1.8 \times 10^5 \text{ km}^2 \text{ s}^{-2}, -0.5 \times 10^3 \text{ kpc km s}^{-1})$. The green box represents the selection of Sequoia stars (see text). Gray dots represent stars with $[\text{Fe}/\text{H}] > -2.5$. Stars with $[\text{Fe}/\text{H}] \leq -2.5$ are displayed as yellow dots. Among these, the disk-like stars are plotted with red edges. Bottom panel: Metallicity distribution functions of the full (gray), the planar (red), GSE (blue), and Sequoia (green) samples. The medians, the median absolute deviations (MAD), and the total numbers of stars (N) are also shown.

(2020) emphasize that the simplest deduction would be that these VMP/EMP stars were born in the Galaxy itself. Hence, these stars would have suffered from the same heating mechanism that operated to form both the splashed disk and the thick disk, i.e., the GSE event (Di Matteo et al. 2019; Gallart et al. 2019; Belokurov et al. 2020; Bonaca et al. 2020), although the exact role that merging events play in dynamical heating remains under debate (see, e.g., Jean-Baptiste et al. 2017 and Amaranter et al. 2020a). Nevertheless, these scenarios are not necessarily mutually exclusive, although the retrograde fraction of the VMP/EMP stars on planar orbits might be difficult to reconcile with the latter. In fact, Sestito et al. (2021) has noted that the Galaxy apparently hosts an excess of retrograde, low- Z_{max} , low-metallicity stars in comparison to their simulations. The authors have further suggested that this aspect might be intrinsically related to a Milky Way-specific evolution, particularly the accretion of GSE’s progenitor system. Such features of VMP/EMP stars on planar orbits in the Galaxy, especially the prograde/retrograde ratio, might help us understand this puzzling assembly history.

We continue our exploration for dynamically interesting stars in Figure 9, where the E vs. L_z diagram is presented (top panel). This parameter space has been extensively utilized in the search for substructures in the Galaxy, especially in the halo (e.g., Chiba & Beers 2000 and numerous subsequent authors; see Helmi 2020 for a recent review). Unsurprisingly, we notice the spread of these objects on planar orbits throughout the locus, in (E, L_z) space, associated with either the disks or the low- E ($\lesssim -1.6 \times 10^5 \text{ km}^2 \text{ s}^{-2}$), retrograde halo. Curiously, the latter is also commonly attributed to the remnant of the proposed Thamnos event (Koppelman et al. 2019). Indeed, we had already noticed that VMP stars from this substructure are unequivocally contained within $Z_{\text{max}} \lesssim 3.5 \text{ kpc}$ in Limberg et al. (2021). One might even speculate that the accretion of a small system like the Thamnos progenitor could have been the responsible for the apparent excess of retrograde low- Z_{max} stars reported by Sestito et al. (2021). However, this should be taken with caution, since both the specific chemical profile of this substructure (Monty et al. 2020), as well as its independence from GSE (Kordopatis et al. 2020), are still under active study (see also discussions about the consequences of massive mergers in Jean-Baptiste et al. 2017 and Koppelman et al. 2020).

From the (E, L_z) space, we have also tentatively isolated stars from both GSE and Sequoia debris. We have placed characteristic selection boxes for each of these substructures (blue and green lines, respectively, in the top panel of Figure 9), in an approach similar to both Matsuno et al. (2019, who analyzed the MDFs and α -to-iron ratios of their member stars) and Massari et al. (2019, who studied possible dynamical associations between globular clusters and various Galactic components). For reference, we have also lo-

cated the ω Centauri globular cluster in (E, L_z) space, which has been proposed to be the remnant nuclear star cluster of GSE (Pfeffer et al. 2021). The GSE selection is: $-1.7 \leq E (\times 10^5 \text{ km}^2 \text{ s}^{-2}) \leq -1.2$, and $-0.5 \leq L_z (\times 10^3 \text{ kpc km s}^{-1}) \leq +0.5$. For Sequoia: $-1.4 \leq E (\times 10^5 \text{ km}^2 \text{ s}^{-2}) \leq -1.0$, and $L_z \leq -1.0 \times 10^3 \text{ kpc km s}^{-1}$. The MDFs resulting from these cuts are presented in the bottom panel of Figure 9 with the same colors as their respective selection boxes. For comparison, we have also plotted the MDFs for the full sample (gray) and for those stars on planar orbits (red). The MDFs from both GSE and Sequoia mostly occupy the metallicity range of $-3.0 < [\text{Fe}/\text{H}] < -1.5$, with medians of $[\text{Fe}/\text{H}] \sim -2.2$ and ~ -2.4 , respectively, but median absolute deviations that make them compatible with each other. Despite some overlap, these are much more metal poor than the typical values found for these substructures in the literature (e.g., Helmi et al. 2018; Conroy et al. 2019a; Vincenzo et al. 2019; Amarante et al. 2020b; Feuillet et al. 2020 for GSE and Myeong et al. 2019; Matsuno et al. 2019; Monty et al. 2020; Dietz et al. 2020 for both). We have experimented with other selections in velocity space, as recommended by Feuillet et al. (2020), but the results are equivalent. We conclude that this low-metallicity bias is an effect of the underlying B&B selection.

From the bottom panel of Figure 9, we note that the MDF of GSE is reminiscent of those presented in Figure 5 (for $|Z|_{\text{Gal}} > 3 \text{ kpc}$ and $V_{\text{TAV}} > 150 \text{ km s}^{-1}$), commensurate with this substructure being the predominant population in the nearby, accreted halo. The presence of this component is also noticeable from the behavior of the full sample’s MDF (Figure 9), which has two peaks, with the lowest-metallicity one being in the same location as GSE’s ($-2.5 \leq [\text{Fe}/\text{H}] \leq -2.0$). The other peak, at $-1.0 \leq [\text{Fe}/\text{H}] \leq -0.5$, is associated with metal-rich, thin-disk stars, mistakenly selected as VMP candidates and followed-up during our program. We note, however, the extended low-metallicity tail of the MDF representing the low- Z_{max} portion of the full sample, related to the previously discussed VMP/EMP stars with thick-disk-like kinematics.

Finally, we stress that not only the VMP/EMP stars with $Z_{\text{max}} > 3 \text{ kpc}$, but also those confined to the Galactic plane, exhibit a wide variety of orbital behaviors, as seen in Figures 8 and 9. Both of these populations span the full range of orbital e , a feature highlighted by Cordoni et al. (2020) in their analysis, from very low ($e < 0.2$), disk-like, to very high ($e > 0.8$), typical of GSE debris. The mild- e ($0.4 < e < 0.6$) stars might also be associated with substructures of *ex-situ* nature (see Helmi 2020), but most of them apparently belong to the *in-situ* counterpart of the halo. Cordoni et al. (2020) highlights that VMP/EMP stars presenting low-to-mild- e , low- Z_{max} orbits follow the e distributions of simulated thick disks constructed via heating mechanisms by Sales et al. (2009). The retrograde counterpart

of such a population would likely be an accreted one according to these authors. This presented “continuity” (in the words of Di Matteo et al. 2020) in the dynamical properties of the most metal-poor stars will certainly need to be taken into consideration in future simulation efforts trying to reproduce the birth and evolution of the Milky Way.

6. CONCLUSIONS

In this paper, we have presented a low-resolution ($R \sim 2000$) spectroscopic study of 1897 metal-poor star candidates selected in the Best & Brightest Survey (Schlaufman & Casey 2014). The observations have been conducted with either the GMOS/Gemini (North and South) or Goodman/SOAR combinations between semesters 2014A and 2019B. We have obtained the atmospheric parameters (T_{eff} , $\log g$, and $[\text{Fe}/\text{H}]$) for these stars, as well as carbon and magnesium abundance ratios for most of them. Furthermore, we have utilized the phase-space information provided by Gaia EDR3 to perform an in-depth investigation on the influence of kinematic-based target selection criteria in the efficiency of finding VMP stars. Finally, we have explored the presence of dynamically interesting VMP/EMP stars in our sample. The main results can be summarized as follows.

- Overall, 56% (1064) of the newly observed stars have $[\text{Fe}/\text{H}] < -1.0$, 30% (566) are VMP, and 2% (35) are EMP. Combined with the previously published data of P19, the full B&B sample is now one the largest homogeneously-analyzed compilations of bright ($V \lesssim 14$) VMP and EMP stars available.
- There are 191 CEMP stars in the Gemini+SOAR sample (94 from Group I and 97 from Group II in the Yoon-Beers $A(C)-[\text{Fe}/\text{H}]$ diagram).
- The fraction of CEMP stars increases with decreasing metallicity. In the VMP and EMP regimes, we have found 19% and 43%, respectively.
- We have introduced the V_{TAV} quantity, which demands either PMs or V_{los} , but makes optimal use of their combination when both are available. We have explored the Z_{Gal} vs. V_{TAV} diagrams, and confirmed that the f_{VMP} grows for greater distances from the Galactic plane and velocities within the full B&B sample.
- The final success rates that have been achieved for $Z_{\text{Gal}} \geq 0.5 \text{ kpc}$ and $V_{\text{TAV}} \geq 100 \text{ km s}^{-1}$ are 96%, 76%, 28%, and 4% for $[\text{Fe}/\text{H}] \leq -1.5, \leq -2.0, \leq -2.5$, and ≤ -3.0 , respectively.
- Using the Toomre diagram, the f_{VMP} in the kinematically-defined halo is equivalent (at the 1σ level) to what has been found for the most interesting regions of the $(Z_{\text{Gal}}, V_{\text{TAV}})$ space.
- After integrating their orbits, 22% of the stars with $[\text{Fe}/\text{H}] \leq -2.5$ have been found to be confined within $Z_{\text{max}} \leq 3 \text{ kpc}$. However, the VMP/EMP stars vetted here exhibit a wide variety of orbital behaviors, spanning

all values of L_z and orbital eccentricity, in keeping with the post-Gaia literature.

- Most of the VMP/EMP stars on planar orbits can be kinematically ($100 \text{ km s}^{-1} \leq |V_{\text{total}} - V_{\text{LSR}}| < 180 \text{ km s}^{-1}$) and dynamically ($e \lesssim 0.6$) attributed to the Galactic metal-weak thick disk. Moreover, a third of these planar, mild- e stars are retrograde (some with $v_\phi \lesssim -100 \text{ km s}^{-1}$), and their origin remains unclear.

- Stars on halo-like orbits ($Z_{\text{max}} > 3 \text{ kpc}$) with $e \gtrsim 0.8$ are generally associated with the GSE merging event. On the other hand, those with mild values of e might be linked to either the *in-situ* counterpart of the halo or other accreted substructures (e.g., Sequoia).

We note that there remain many thousands of candidate metal-poor stars originally identified in the B&B survey, as well as in the HK and Hamburg/ESO surveys, which have not yet been vetted with low-resolution spectroscopy. Given the high success rates for the identification of VMP stars demonstrated by our kinematic-selection approach, it is feasible to go directly to high-resolution follow-up for many of these stars in future campaigns.

ACKNOWLEDGMENTS

The authors thank Angeles Pérez-Villegas for insightful discussions at the early stages of this work. We also thank the anonymous referee for a useful report. G.L. acknowledges CAPES (PROEX; Proc. 88887.481172/2020-00) and CNPq (PIBIC; Proc. 144638/2018-5). R.M.S. acknowledges CNPq (Proc. 436696/2018-5 and 306667/2020-7). S.R. would like to acknowledge support from FAPESP (Proc. 2015/50374-0 and 2014/18100-4), CAPES, and CNPq. H.D.P. thanks FAPESP Proc. 2018/21250-9. D.S., V.M.P., and T.C.B. acknowledge partial support from grant PHY 14-30152, Physics Frontier Center/JINA Center for the Evolution of the Elements (JINA-CEE), awarded by the US National Science Foundation. The work of V.M.P. is supported by NOIRLab, which is managed by the Association of Universities for Research in Astronomy (AURA) under a cooperative agreement with the National Science Foundation. Y.S.L. acknowledges support from the National Research Foundation (NRF) of Korea grant funded by the Ministry of Science and ICT (NRF-2018R1A2B6003961).

This work is partially based on observations obtained under the programs SO-2018B-010 and SO-2019B-013 at the Southern Astrophysical Research (SOAR) telescope, which is a joint project of the Ministério da Ciência, Tecnologia e Inovações (MCTI/LNA) do Brasil, the US National Science Foundation's NOIRLab, the University of North Carolina at Chapel Hill (UNC), and Michigan State University (MSU). This research is also partially based on observations obtained under programs GN-2015A-Q-76, GN-2015B-Q-86, GN-2016A-

DD-3, GN-2016A-Q-75, GN-2016B-Q-77, GN-2017A-Q-82, GN-2017B-Q-75, GN-2017B-Q-79, GN-2018A-Q-403, GN-2018B-Q-316, GN-2019A-Q-309, GN-2019B-Q-403, GS-2014A-Q-74, GS-2014A-Q-8, GS-2015A-Q-77, GS-2015A-Q-92, GS-2015B-Q-71, GS-2016A-Q-76, GS-2016B-Q-81, GS-2017A-Q-86, GS-2017B-Q-75, GS-2017B-Q-84, GS-2018A-Q-406, and GS-2018B-Q-315 at the international Gemini Observatory, a program of NSF's NOIRLab, which is managed by the Association of Universities for Research in Astronomy (AURA) under a cooperative agreement with the National Science Foundation on behalf of the Gemini Observatory partnership: the National Science Foundation (United States), National Research Council (Canada), Agencia Nacional de Investigación y Desarrollo (Chile), Ministerio de Ciencia, Tecnología e Innovación (Argentina), Ministério da Ciência, Tecnologia e Inovações (Brazil), and Korea Astronomy and Space Science Institute (Republic of Korea).

This work has made use of data from the European Space Agency (ESA) mission *Gaia* (<https://www.cosmos.esa.int/gaia>), processed by the *Gaia* Data Processing and Analysis Consortium (DPAC, <https://www.cosmos.esa.int/web/gaia/dpac/consortium>). Funding for the DPAC has been provided by national institutions, in particular the institutions participating in the *Gaia* Multilateral Agreement. This research has made use of the SIMBAD database and VizieR catalogue access tool, operated at CDS, Strasbourg, France. This research was made possible through the use of the AAVSO Photometric All-Sky Survey (APASS), funded by the Robert Martin Ayers Sciences Fund and NSF AST-1412587. This publication makes use of data products from the Two Micron All Sky Survey, which is a joint project of the University of Massachusetts and the Infrared Processing and Analysis Center/California Institute of Technology, funded by the National Aeronautics and Space Administration and the National Science Foundation.

This research has been conducted despite the ongoing dismantling of the Brazilian scientific system.

Facilities: Gemini North (8.1 m): GMOS-N, Gemini South (8.1 m): GMOS-S, SOAR (4.1 m): Goodman

Software: `matplotlib` (Hunter 2007), `Numpy` (van der Walt et al. 2011), `scipy` (Virtanen et al. 2020).

REFERENCES

- Abbott, B. P., Abbott, R., Abbott, T. D., et al. 2017a, *ApJL*, 848, L12, doi: [10.3847/2041-8213/aa91c9](https://doi.org/10.3847/2041-8213/aa91c9)
- . 2017b, *ApJL*, 848, L13, doi: [10.3847/2041-8213/aa920c](https://doi.org/10.3847/2041-8213/aa920c)
- . 2017c, *PhRvL*, 119, 161101, doi: [10.1103/PhysRevLett.119.161101](https://doi.org/10.1103/PhysRevLett.119.161101)
- Aguado, D. S., González Hernández, J. I., Allende Prieto, C., & Rebolo, R. 2018, *ApJL*, 852, L20, doi: [10.3847/2041-8213/aaa23a](https://doi.org/10.3847/2041-8213/aaa23a)
- Aguado, D. S., Youakim, K., González Hernández, J. I., et al. 2019, *MNRAS*, 490, 2241, doi: [10.1093/mnras/stz2643](https://doi.org/10.1093/mnras/stz2643)
- Allen, D. M., Ryan, S. G., Rossi, S., Beers, T. C., & Tsangarides, S. A. 2012, *A&A*, 548, A34, doi: [10.1051/0004-6361/201015615](https://doi.org/10.1051/0004-6361/201015615)
- Amarante, J. A. S., Beraldo e Silva, L., Debattista, V. P., & Smith, M. C. 2020a, *ApJL*, 891, L30, doi: [10.3847/2041-8213/ab78a4](https://doi.org/10.3847/2041-8213/ab78a4)
- Amarante, J. A. S., Smith, M. C., & Boeche, C. 2020b, *MNRAS*, 492, 3816, doi: [10.1093/mnras/staa077](https://doi.org/10.1093/mnras/staa077)
- An, D., & Beers, T. C. 2020, *ApJ*, 897, 39, doi: [10.3847/1538-4357/ab8d39](https://doi.org/10.3847/1538-4357/ab8d39)
- Aoki, W., Beers, T. C., Christlieb, N., et al. 2007, *ApJ*, 655, 492, doi: [10.1086/509817](https://doi.org/10.1086/509817)
- Aoki, W., Norris, J. E., Ryan, S. G., Beers, T. C., & Ando, H. 2002, *ApJ*, 567, 1166, doi: [10.1086/338756](https://doi.org/10.1086/338756)
- Arcavi, I., Hosseinzadeh, G., Howell, D. A., et al. 2017, *Nature*, 551, 64, doi: [10.1038/nature24291](https://doi.org/10.1038/nature24291)
- Asplund, M., Grevesse, N., Sauval, A. J., & Scott, P. 2009, *ARA&A*, 47, 481, doi: [10.1146/annurev.astro.46.060407.145222](https://doi.org/10.1146/annurev.astro.46.060407.145222)
- Astraatmadja, T. L., & Bailer-Jones, C. A. L. 2016, *ApJ*, 833, 119, doi: [10.3847/1538-4357/833/1/119](https://doi.org/10.3847/1538-4357/833/1/119)
- Astropy Collaboration, Robitaille, T. P., Tollerud, E. J., et al. 2013, *A&A*, 558, A33, doi: [10.1051/0004-6361/201322068](https://doi.org/10.1051/0004-6361/201322068)
- Astropy Collaboration, Price-Whelan, A. M., Sipőcz, B. M., et al. 2018, *AJ*, 156, 123, doi: [10.3847/1538-3881/aabc4f](https://doi.org/10.3847/1538-3881/aabc4f)
- Bailer-Jones, C. A. L., Rybizki, J., Fouesneau, M., Demleitner, M., & Andrae, R. 2021, *AJ*, 161, 147, doi: [10.3847/1538-3881/abd806](https://doi.org/10.3847/1538-3881/abd806)
- Banerjee, P., Wu, M.-R., & Yuan, Z. 2020, *ApJL*, 902, L34, doi: [10.3847/2041-8213/abbc0d](https://doi.org/10.3847/2041-8213/abbc0d)
- Beers, T. C., & Christlieb, N. 2005, *ARA&A*, 43, 531, doi: [10.1146/annurev.astro.42.053102.134057](https://doi.org/10.1146/annurev.astro.42.053102.134057)
- Beers, T. C., Drilling, J. S., Rossi, S., et al. 2002, *AJ*, 124, 931, doi: [10.1086/341377](https://doi.org/10.1086/341377)
- Beers, T. C., Norris, J. E., Placco, V. M., et al. 2014, *ApJ*, 794, 58, doi: [10.1088/0004-637X/794/1/58](https://doi.org/10.1088/0004-637X/794/1/58)
- Beers, T. C., Preston, G. W., & Shectman, S. A. 1985, *AJ*, 90, 2089, doi: [10.1086/113917](https://doi.org/10.1086/113917)
- . 1992, *AJ*, 103, 1987
- Beers, T. C., & Sommer-Larsen, J. 1995, *ApJS*, 96, 175, doi: [10.1086/192117](https://doi.org/10.1086/192117)
- Beers, T. C., Carollo, D., Ivezić, Ž., et al. 2012, *ApJ*, 746, 34, doi: [10.1088/0004-637X/746/1/34](https://doi.org/10.1088/0004-637X/746/1/34)
- Beers, T. C., Placco, V. M., Carollo, D., et al. 2017, *ApJ*, 835, 81, doi: [10.3847/1538-4357/835/1/81](https://doi.org/10.3847/1538-4357/835/1/81)
- Belczynski, K., Askar, A., Arca-Sedda, M., et al. 2018, *A&A*, 615, A91, doi: [10.1051/0004-6361/201732428](https://doi.org/10.1051/0004-6361/201732428)
- Belokurov, V., Erkal, D., Evans, N. W., Koposov, S. E., & Deason, A. J. 2018, *MNRAS*, 478, 611, doi: [10.1093/mnras/sty982](https://doi.org/10.1093/mnras/sty982)
- Belokurov, V., Sanders, J. L., Fattahi, A., et al. 2020, *MNRAS*, 494, 3880, doi: [10.1093/mnras/staa876](https://doi.org/10.1093/mnras/staa876)
- Bensby, T., Feltzing, S., & Oey, M. S. 2014, *A&A*, 562, A71, doi: [10.1051/0004-6361/201322631](https://doi.org/10.1051/0004-6361/201322631)
- Bidelman, W. P., & MacConnell, D. J. 1973, *AJ*, 78, 687, doi: [10.1086/111475](https://doi.org/10.1086/111475)
- Bisterzo, S., Gallino, R., Straniero, O., Cristallo, S., & Käppeler, F. 2011, *MNRAS*, 418, 284, doi: [10.1111/j.1365-2966.2011.19484.x](https://doi.org/10.1111/j.1365-2966.2011.19484.x)
- Bland-Hawthorn, J., & Gerhard, O. 2016, *ARA&A*, 54, 529, doi: [10.1146/annurev-astro-081915-023441](https://doi.org/10.1146/annurev-astro-081915-023441)
- Bonaca, A., Conroy, C., Wetzel, A., Hopkins, P. F., & Kereš, D. 2017, *ApJ*, 845, 101, doi: [10.3847/1538-4357/aa7d0c](https://doi.org/10.3847/1538-4357/aa7d0c)
- Bonaca, A., Conroy, C., Cargile, P. A., et al. 2020, *ApJL*, 897, L18, doi: [10.3847/2041-8213/ab9caa](https://doi.org/10.3847/2041-8213/ab9caa)
- Bond, H. E. 1970, *ApJS*, 22, 117, doi: [10.1086/190220](https://doi.org/10.1086/190220)
- . 1980, *ApJS*, 44, 517, doi: [10.1086/190703](https://doi.org/10.1086/190703)
- Bonifacio, P., Centurion, M., & Molaro, P. 1999, *MNRAS*, 309, 533, doi: [10.1046/j.1365-8711.1999.02866.x](https://doi.org/10.1046/j.1365-8711.1999.02866.x)
- Bonifacio, P., Caffau, E., Spite, M., et al. 2015, *A&A*, 579, A28, doi: [10.1051/0004-6361/201425266](https://doi.org/10.1051/0004-6361/201425266)
- Bonoli, S., Marín-Franch, A., Varela, J., et al. 2020, *arXiv e-prints*, arXiv:2007.01910, <https://arxiv.org/abs/2007.01910>
- Brown, W. R., Beers, T. C., Wilhelm, R., et al. 2008, *AJ*, 135, 564, doi: [10.1088/0004-6256/135/2/564](https://doi.org/10.1088/0004-6256/135/2/564)
- Burbidge, E. M., Burbidge, G. R., Fowler, W. A., & Hoyle, F. 1957, *Reviews of Modern Physics*, 29, 547, doi: [10.1103/RevModPhys.29.547](https://doi.org/10.1103/RevModPhys.29.547)
- Cameron, A. G. W. 1957, *PASP*, 69, 201, doi: [10.1086/127051](https://doi.org/10.1086/127051)

- Carollo, D., Freeman, K., Beers, T., et al. 2014, Carbon-Enhanced Metal-Poor Stars: CEMP-s and CEMP-no Sub-Classes in the Halo System of the Milky Way. <https://arxiv.org/abs/1401.0574>
- Carollo, D., Beers, T. C., Lee, Y. S., et al. 2007, *Nature*, 450, 1020, doi: [10.1038/nature06460](https://doi.org/10.1038/nature06460)
- Carollo, D., Beers, T. C., Chiba, M., et al. 2010, *ApJ*, 712, 692, doi: [10.1088/0004-637X/712/1/692](https://doi.org/10.1088/0004-637X/712/1/692)
- Carollo, D., Beers, T. C., Bovy, J., et al. 2012, *ApJ*, 744, 195, doi: [10.1088/0004-637X/744/2/195](https://doi.org/10.1088/0004-637X/744/2/195)
- Carollo, D., Chiba, M., Ishigaki, M., et al. 2019, *ApJ*, 887, 22, doi: [10.3847/1538-4357/ab517c](https://doi.org/10.3847/1538-4357/ab517c)
- Casey, A. R., & Schlafman, K. C. 2015, *ApJ*, 809, 110, doi: [10.1088/0004-637X/809/2/110](https://doi.org/10.1088/0004-637X/809/2/110)
- Cayrel, R., Depagne, E., Spite, M., et al. 2004, *A&A*, 416, 1117, doi: [10.1051/0004-6361:20034074](https://doi.org/10.1051/0004-6361:20034074)
- Cenarro, A. J., Moles, M., Cristóbal-Hornillos, D., et al. 2019, *A&A*, 622, A176, doi: [10.1051/0004-6361/201833036](https://doi.org/10.1051/0004-6361/201833036)
- Charbonnel, C. 1995, *ApJL*, 453, L41, doi: [10.1086/309744](https://doi.org/10.1086/309744)
- Chiappini, C., Matteucci, F., & Gratton, R. 1997, *ApJ*, 477, 765, doi: [10.1086/303726](https://doi.org/10.1086/303726)
- Chiba, M., & Beers, T. C. 2000, *AJ*, 119, 2843, doi: [10.1086/301409](https://doi.org/10.1086/301409)
- Choi, J., Dotter, A., Conroy, C., et al. 2016, *ApJ*, 823, 102, doi: [10.3847/0004-637X/823/2/102](https://doi.org/10.3847/0004-637X/823/2/102)
- Christlieb, N. 2003, *Reviews in Modern Astronomy*, 16, 191, doi: [10.1002/9783527617647.ch8](https://doi.org/10.1002/9783527617647.ch8)
- Christlieb, N., Schörck, T., Frebel, A., et al. 2008, *A&A*, 484, 721, doi: [10.1051/0004-6361:20078748](https://doi.org/10.1051/0004-6361:20078748)
- Clemens, J. C., Crain, J. A., & Anderson, R. 2004, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 5492, *Ground-based Instrumentation for Astronomy*, ed. A. F. M. Moorwood & M. Iye, 331–340, doi: [10.1117/12.550069](https://doi.org/10.1117/12.550069)
- Cohen, J. G., Christlieb, N., McWilliam, A., et al. 2008, *ApJ*, 672, 320, doi: [10.1086/523638](https://doi.org/10.1086/523638)
- Conroy, C., Naidu, R. P., Zaritsky, D., et al. 2019a, *ApJ*, 887, 237, doi: [10.3847/1538-4357/ab5710](https://doi.org/10.3847/1538-4357/ab5710)
- Conroy, C., Bonaca, A., Cargile, P., et al. 2019b, *ApJ*, 883, 107, doi: [10.3847/1538-4357/ab38b8](https://doi.org/10.3847/1538-4357/ab38b8)
- Cordoni, G., Da Costa, G. S., Yong, D., et al. 2020, *MNRAS*, doi: [10.1093/mnras/staa3417](https://doi.org/10.1093/mnras/staa3417)
- Côté, B., Fryer, C. L., Belczynski, K., et al. 2018, *ApJ*, 855, 99, doi: [10.3847/1538-4357/aaad67](https://doi.org/10.3847/1538-4357/aaad67)
- Côté, B., Eichler, M., Arcones, A., et al. 2019, *ApJ*, 875, 106, doi: [10.3847/1538-4357/ab10db](https://doi.org/10.3847/1538-4357/ab10db)
- Cruz, M. A., Cogo-Moreira, H., & Rossi, S. 2018, *MNRAS*, 475, 4781, doi: [10.1093/mnras/stx3330](https://doi.org/10.1093/mnras/stx3330)
- Cui, X.-Q., Zhao, Y.-H., Chu, Y.-Q., et al. 2012, *Research in Astronomy and Astrophysics*, 12, 1197, doi: [10.1088/1674-4527/12/9/003](https://doi.org/10.1088/1674-4527/12/9/003)
- Da Costa, G. S., Bessell, M. S., Mackey, A. D., et al. 2019, *MNRAS*, 489, 5900, doi: [10.1093/mnras/stz2550](https://doi.org/10.1093/mnras/stz2550)
- Dalton, G., Trager, S. C., Abrams, D. C., et al. 2012, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 8446, *Ground-based and Airborne Instrumentation for Astronomy IV*, ed. I. S. McLean, S. K. Ramsay, & H. Takami, 84460P, doi: [10.1117/12.925950](https://doi.org/10.1117/12.925950)
- Davies, R. L., Allington-Smith, J. R., Bettess, P., et al. 1997, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 2871, *Optical Telescopes of Today and Tomorrow*, ed. A. L. Ardeberg, 1099–1106, doi: [10.1117/12.268996](https://doi.org/10.1117/12.268996)
- de Jong, R. S., Bellido-Tirado, O., Chiappini, C., et al. 2012, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 8446, *Ground-based and Airborne Instrumentation for Astronomy IV*, ed. I. S. McLean, S. K. Ramsay, & H. Takami, 84460T, doi: [10.1117/12.926239](https://doi.org/10.1117/12.926239)
- de Jong, R. S., Barden, S., Bellido-Tirado, O., et al. 2014, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9147, *Ground-based and Airborne Instrumentation for Astronomy V*, ed. S. K. Ramsay, I. S. McLean, & H. Takami, 91470M, doi: [10.1117/12.2055826](https://doi.org/10.1117/12.2055826)
- Di Matteo, P., Haywood, M., Lehnert, M. D., et al. 2019, *A&A*, 632, A4, doi: [10.1051/0004-6361/201834929](https://doi.org/10.1051/0004-6361/201834929)
- Di Matteo, P., Spite, M., Haywood, M., et al. 2020, *A&A*, 636, A115, doi: [10.1051/0004-6361/201937016](https://doi.org/10.1051/0004-6361/201937016)
- Dietz, S. E., Yoon, J., Beers, T. C., & Placco, V. M. 2020, *ApJ*, 894, 34, doi: [10.3847/1538-4357/ab7fa4](https://doi.org/10.3847/1538-4357/ab7fa4)
- Dotter, A. 2016, *ApJS*, 222, 8, doi: [10.3847/0067-0049/222/1/8](https://doi.org/10.3847/0067-0049/222/1/8)
- Drout, M. R., Piro, A. L., Shappee, B. J., et al. 2017, *Science*, 358, 1570, doi: [10.1126/science.aaq0049](https://doi.org/10.1126/science.aaq0049)
- Dvorkin, I., Daigne, F., Goriely, S., Vangioni, E., & Silk, J. 2020, *arXiv e-prints*, arXiv:2010.00625. <https://arxiv.org/abs/2010.00625>
- El-Badry, K., Bland-Hawthorn, J., Wetzel, A., et al. 2018, *MNRAS*, 480, 652, doi: [10.1093/mnras/sty1864](https://doi.org/10.1093/mnras/sty1864)
- Ezzeddine, R., Frebel, A., Roederer, I. U., et al. 2019, *ApJ*, 876, 97, doi: [10.3847/1538-4357/ab14e7](https://doi.org/10.3847/1538-4357/ab14e7)
- Ezzeddine, R., Rasmussen, K., Frebel, A., et al. 2020, *ApJ*, 898, 150, doi: [10.3847/1538-4357/ab9d1a](https://doi.org/10.3847/1538-4357/ab9d1a)
- Feuillet, D. K., Feltzing, S., Sahlholdt, C. L., & Casagrande, L. 2020, *MNRAS*, 497, 109, doi: [10.1093/mnras/staa1888](https://doi.org/10.1093/mnras/staa1888)

- Frebel, A. 2018, *Annual Review of Nuclear and Particle Science*, 68, 237, doi: [10.1146/annurev-nucl-101917-021141](https://doi.org/10.1146/annurev-nucl-101917-021141)
- Frebel, A., Chiti, A., Ji, A. P., Jacobson, H. R., & Placco, V. M. 2015, *ApJL*, 810, L27, doi: [10.1088/2041-8205/810/2/L27](https://doi.org/10.1088/2041-8205/810/2/L27)
- Frebel, A., & Norris, J. E. 2015, *ARA&A*, 53, 631, doi: [10.1146/annurev-astro-082214-122423](https://doi.org/10.1146/annurev-astro-082214-122423)
- Frebel, A., Christlieb, N., Norris, J. E., et al. 2006, *ApJ*, 652, 1585, doi: [10.1086/508506](https://doi.org/10.1086/508506)
- Gaia Collaboration, Brown, A. G. A., Vallenari, A., et al. 2020, arXiv e-prints, arXiv:2012.01533. <https://arxiv.org/abs/2012.01533>
- Gaia Collaboration, Prusti, T., de Bruijne, J. H. J., et al. 2016a, *A&A*, 595, A1, doi: [10.1051/0004-6361/201629272](https://doi.org/10.1051/0004-6361/201629272)
- Gaia Collaboration, Brown, A. G. A., Vallenari, A., et al. 2016b, *A&A*, 595, A2, doi: [10.1051/0004-6361/201629512](https://doi.org/10.1051/0004-6361/201629512)
- . 2018, *A&A*, 616, A1, doi: [10.1051/0004-6361/201833051](https://doi.org/10.1051/0004-6361/201833051)
- Gallart, C., Bernard, E. J., Brook, C. B., et al. 2019, *Nature Astronomy*, 3, 932, doi: [10.1038/s41550-019-0829-5](https://doi.org/10.1038/s41550-019-0829-5)
- Gimeno, G., Roth, K., Chiboucas, K., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9908, *Ground-based and Airborne Instrumentation for Astronomy VI*, ed. C. J. Evans, L. Simard, & H. Takami, 99082S, doi: [10.1117/12.2233883](https://doi.org/10.1117/12.2233883)
- Gravity Collaboration, Abuter, R., Amorim, A., et al. 2019, *A&A*, 625, L10, doi: [10.1051/0004-6361/201935656](https://doi.org/10.1051/0004-6361/201935656)
- . 2020, *A&A*, 636, L5, doi: [10.1051/0004-6361/202037813](https://doi.org/10.1051/0004-6361/202037813)
- Gudin, D., Shank, D., Beers, T. C., et al. 2021, *ApJ*, 908, 79, doi: [10.3847/1538-4357/abd7ed](https://doi.org/10.3847/1538-4357/abd7ed)
- Hansen, T., Hansen, C. J., Christlieb, N., et al. 2015, *ApJ*, 807, 173, doi: [10.1088/0004-637X/807/2/173](https://doi.org/10.1088/0004-637X/807/2/173)
- Hansen, T. T., Andersen, J., Nordström, B., et al. 2016, *A&A*, 588, A3, doi: [10.1051/0004-6361/201527409](https://doi.org/10.1051/0004-6361/201527409)
- Hansen, T. T., Holmbeck, E. M., Beers, T. C., et al. 2018, *ApJ*, 858, 92, doi: [10.3847/1538-4357/aabacc](https://doi.org/10.3847/1538-4357/aabacc)
- Hartwig, T., Yoshida, N., Magg, M., et al. 2018, *MNRAS*, 478, 1795, doi: [10.1093/mnras/sty1176](https://doi.org/10.1093/mnras/sty1176)
- Hawkins, K., Jofré, P., Masseron, T., & Gilmore, G. 2015, *MNRAS*, 453, 758, doi: [10.1093/mnras/stv1586](https://doi.org/10.1093/mnras/stv1586)
- Haynes, C. J., & Kobayashi, C. 2019, *MNRAS*, 483, 5123, doi: [10.1093/mnras/sty3389](https://doi.org/10.1093/mnras/sty3389)
- Haywood, M., Di Matteo, P., Lehnert, M. D., et al. 2018, *ApJ*, 863, 113, doi: [10.3847/1538-4357/aad235](https://doi.org/10.3847/1538-4357/aad235)
- Heger, A., & Woosley, S. E. 2010, *ApJ*, 724, 341, doi: [10.1088/0004-637X/724/1/341](https://doi.org/10.1088/0004-637X/724/1/341)
- Helmi, A. 2020, *ARA&A*, 58, 205, doi: [10.1146/annurev-astro-032620-021917](https://doi.org/10.1146/annurev-astro-032620-021917)
- Helmi, A., Babusiaux, C., Koppelman, H. H., et al. 2018, *Nature*, 563, 85, doi: [10.1038/s41586-018-0625-x](https://doi.org/10.1038/s41586-018-0625-x)
- Henden, A., & Munari, U. 2014, *Contributions of the Astronomical Observatory Skalnaté Pleso*, 43, 518
- Herwig, F. 2005, *ARA&A*, 43, 435, doi: [10.1146/annurev.astro.43.072103.150600](https://doi.org/10.1146/annurev.astro.43.072103.150600)
- Hill, V., Plez, B., Cayrel, R., et al. 2002, *A&A*, 387, 560, doi: [10.1051/0004-6361:20020434](https://doi.org/10.1051/0004-6361:20020434)
- Holmbeck, E. M., Hansen, T. T., Beers, T. C., et al. 2020, *ApJS*, 249, 30, doi: [10.3847/1538-4365/ab9c19](https://doi.org/10.3847/1538-4365/ab9c19)
- Hunter, J. D. 2007, *Computing in Science and Engineering*, 9, 90, doi: [10.1109/MCSE.2007.55](https://doi.org/10.1109/MCSE.2007.55)
- Ito, H., Aoki, W., Beers, T. C., et al. 2013, *ApJ*, 773, 33, doi: [10.1088/0004-637X/773/1/33](https://doi.org/10.1088/0004-637X/773/1/33)
- Jean-Baptiste, I., Di Matteo, P., Haywood, M., et al. 2017, *A&A*, 604, A106, doi: [10.1051/0004-6361/201629691](https://doi.org/10.1051/0004-6361/201629691)
- Ji, A. P., Drout, M. R., & Hansen, T. T. 2019, *ApJ*, 882, 40, doi: [10.3847/1538-4357/ab3291](https://doi.org/10.3847/1538-4357/ab3291)
- Ji, A. P., & Frebel, A. 2018, *ApJ*, 856, 138, doi: [10.3847/1538-4357/aab14a](https://doi.org/10.3847/1538-4357/aab14a)
- Keller, S. C., Bessell, M. S., Frebel, A., et al. 2014, *Nature*, 506, 463, doi: [10.1038/nature12990](https://doi.org/10.1038/nature12990)
- Kobayashi, C., Karakas, A. I., & Lugaro, M. 2020, *ApJ*, 900, 179, doi: [10.3847/1538-4357/abae65](https://doi.org/10.3847/1538-4357/abae65)
- Kollmeier, J. A., Zasowski, G., Rix, H.-W., et al. 2017, arXiv e-prints, arXiv:1711.03234. <https://arxiv.org/abs/1711.03234>
- Koppelman, H., Helmi, A., & Veljanoski, J. 2018, *ApJL*, 860, L11, doi: [10.3847/2041-8213/aac882](https://doi.org/10.3847/2041-8213/aac882)
- Koppelman, H. H., Bos, R. O. Y., & Helmi, A. 2020, *A&A*, 642, L18, doi: [10.1051/0004-6361/202038652](https://doi.org/10.1051/0004-6361/202038652)
- Koppelman, H. H., Helmi, A., Massari, D., Price-Whelan, A. M., & Starkenburg, T. K. 2019, *A&A*, 631, L9, doi: [10.1051/0004-6361/201936738](https://doi.org/10.1051/0004-6361/201936738)
- Kordopatis, G., Recio-Blanco, A., Schultheis, M., & Hill, V. 2020, *A&A*, 643, A69, doi: [10.1051/0004-6361/202038686](https://doi.org/10.1051/0004-6361/202038686)
- Kordopatis, G., Gilmore, G., Wyse, R. F. G., et al. 2013, *MNRAS*, 436, 3231, doi: [10.1093/mnras/stt1804](https://doi.org/10.1093/mnras/stt1804)
- Kunder, A., Kordopatis, G., Steinmetz, M., et al. 2017, *AJ*, 153, 75, doi: [10.3847/1538-3881/153/2/75](https://doi.org/10.3847/1538-3881/153/2/75)
- Lattimer, J. M., & Schramm, D. N. 1974, *ApJL*, 192, L145, doi: [10.1086/181612](https://doi.org/10.1086/181612)
- Lee, Y. S., Beers, T. C., & Kim, Y. K. 2019, *ApJ*, 885, 102, doi: [10.3847/1538-4357/ab4791](https://doi.org/10.3847/1538-4357/ab4791)
- Lee, Y. S., Beers, T. C., Kim, Y. K., et al. 2017, *ApJ*, 836, 91, doi: [10.3847/1538-4357/836/1/91](https://doi.org/10.3847/1538-4357/836/1/91)
- Lee, Y. S., Beers, T. C., Sivarani, T., et al. 2008a, *AJ*, 136, 2022, doi: [10.1088/0004-6256/136/5/2022](https://doi.org/10.1088/0004-6256/136/5/2022)
- . 2008b, *AJ*, 136, 2050, doi: [10.1088/0004-6256/136/5/2050](https://doi.org/10.1088/0004-6256/136/5/2050)
- Lee, Y. S., Beers, T. C., Allende Prieto, C., et al. 2011, *AJ*, 141, 90, doi: [10.1088/0004-6256/141/3/90](https://doi.org/10.1088/0004-6256/141/3/90)

- Lee, Y. S., Beers, T. C., Masseron, T., et al. 2013, *AJ*, 146, 132, doi: [10.1088/0004-6256/146/5/132](https://doi.org/10.1088/0004-6256/146/5/132)
- Li, C., & Zhao, G. 2017, *ApJ*, 850, 25, doi: [10.3847/1538-4357/aa93f4](https://doi.org/10.3847/1538-4357/aa93f4)
- Li, C., Zhao, G., Zhai, M., & Jia, Y. 2018a, *ApJ*, 860, 53, doi: [10.3847/1538-4357/aac50f](https://doi.org/10.3847/1538-4357/aac50f)
- Li, H., Tan, K., & Zhao, G. 2018b, *ApJS*, 238, 16, doi: [10.3847/1538-4365/aada4a](https://doi.org/10.3847/1538-4365/aada4a)
- Limberg, G., Rossi, S., Beers, T. C., et al. 2021, *ApJ*, 907, 10, doi: [10.3847/1538-4357/abcb87](https://doi.org/10.3847/1538-4357/abcb87)
- Lindegren, L., Lammers, U., Bastian, U., et al. 2016, *A&A*, 595, A4, doi: [10.1051/0004-6361/201628714](https://doi.org/10.1051/0004-6361/201628714)
- Lindegren, L., Bastian, U., Biermann, M., et al. 2020a, arXiv e-prints, arXiv:2012.01742, <https://arxiv.org/abs/2012.01742>
- Lindegren, L., Klioner, S. A., Hernández, J., et al. 2020b, arXiv e-prints, arXiv:2012.03380, <https://arxiv.org/abs/2012.03380>
- Lucatello, S., Beers, T. C., Christlieb, N., et al. 2006, *ApJL*, 652, L37, doi: [10.1086/509780](https://doi.org/10.1086/509780)
- Lucatello, S., Tsangarides, S., Beers, T. C., et al. 2005, *ApJ*, 625, 825, doi: [10.1086/428104](https://doi.org/10.1086/428104)
- Massari, D., Koppelman, H. H., & Helmi, A. 2019, *A&A*, 630, L4, doi: [10.1051/0004-6361/201936135](https://doi.org/10.1051/0004-6361/201936135)
- Matsuno, T., Aoki, W., & Suda, T. 2019, *ApJL*, 874, L35, doi: [10.3847/2041-8213/ab0ec0](https://doi.org/10.3847/2041-8213/ab0ec0)
- McMillan, P. J. 2017, *MNRAS*, 465, 76, doi: [10.1093/mnras/stw2759](https://doi.org/10.1093/mnras/stw2759)
- Mendes de Oliveira, C., Ribeiro, T., Schoenell, W., et al. 2019, *MNRAS*, 489, 241, doi: [10.1093/mnras/stz1985](https://doi.org/10.1093/mnras/stz1985)
- Monty, S., Venn, K. A., Lane, J. M. M., Lokhorst, D., & Yong, D. 2020, *MNRAS*, 497, 1236, doi: [10.1093/mnras/staa1995](https://doi.org/10.1093/mnras/staa1995)
- Morrison, H. L., Flynn, C., & Freeman, K. C. 1990, *AJ*, 100, 1191, doi: [10.1086/115587](https://doi.org/10.1086/115587)
- Myeong, G. C., Vasiliev, E., Iorio, G., Evans, N. W., & Belokurov, V. 2019, *MNRAS*, 488, 1235, doi: [10.1093/mnras/stz1770](https://doi.org/10.1093/mnras/stz1770)
- Nomoto, K., Kobayashi, C., & Tominaga, N. 2013, *ARA&A*, 51, 457, doi: [10.1146/annurev-astro-082812-140956](https://doi.org/10.1146/annurev-astro-082812-140956)
- Norris, J., Bessell, M. S., & Pickles, A. J. 1985, *ApJS*, 58, 463, doi: [10.1086/191049](https://doi.org/10.1086/191049)
- Norris, J. E., Ryan, S. G., & Beers, T. C. 1996, *ApJS*, 107, 391, doi: [10.1086/192368](https://doi.org/10.1086/192368)
- . 1997, *ApJ*, 488, 350, doi: [10.1086/304695](https://doi.org/10.1086/304695)
- Pérez-Villegas, A., Barbuy, B., Kerber, L. O., et al. 2020, *MNRAS*, 491, 3251, doi: [10.1093/mnras/stz3162](https://doi.org/10.1093/mnras/stz3162)
- Pfeffer, J., Lardo, C., Bastian, N., Saracino, S., & Kamann, S. 2021, *MNRAS*, 500, 2514, doi: [10.1093/mnras/staa3407](https://doi.org/10.1093/mnras/staa3407)
- Pian, E., D’Avanzo, P., Benetti, S., et al. 2017, *Nature*, 551, 67, doi: [10.1038/nature24298](https://doi.org/10.1038/nature24298)
- Placco, V. M., Beers, T. C., Reggiani, H., & Meléndez, J. 2016a, *ApJL*, 829, L24, doi: [10.3847/2041-8205/829/2/L24](https://doi.org/10.3847/2041-8205/829/2/L24)
- Placco, V. M., Frebel, A., Beers, T. C., et al. 2014a, *ApJ*, 781, 40, doi: [10.1088/0004-637X/781/1/40](https://doi.org/10.1088/0004-637X/781/1/40)
- . 2013, *ApJ*, 770, 104, doi: [10.1088/0004-637X/770/2/104](https://doi.org/10.1088/0004-637X/770/2/104)
- Placco, V. M., Frebel, A., Beers, T. C., & Stancliffe, R. J. 2014b, *ApJ*, 797, 21, doi: [10.1088/0004-637X/797/1/21](https://doi.org/10.1088/0004-637X/797/1/21)
- Placco, V. M., Frebel, A., Beers, T. C., et al. 2016b, *ApJ*, 833, 21, doi: [10.3847/0004-637X/833/1/21](https://doi.org/10.3847/0004-637X/833/1/21)
- Placco, V. M., Beers, T. C., Santucci, R. M., et al. 2018, *AJ*, 155, 256, doi: [10.3847/1538-3881/aac20c](https://doi.org/10.3847/1538-3881/aac20c)
- Placco, V. M., Santucci, R. M., Beers, T. C., et al. 2019, *ApJ*, 870, 122, doi: [10.3847/1538-4357/aaf3b9](https://doi.org/10.3847/1538-4357/aaf3b9)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al. 2016, *A&A*, 594, A13, doi: [10.1051/0004-6361/201525830](https://doi.org/10.1051/0004-6361/201525830)
- Posti, L., Helmi, A., Veljanoski, J., & Breddels, M. A. 2018, *A&A*, 615, A70, doi: [10.1051/0004-6361/201732277](https://doi.org/10.1051/0004-6361/201732277)
- Rasmussen, K. C., Zepeda, J., Beers, T. C., et al. 2020, *ApJ*, 905, 20, doi: [10.3847/1538-4357/abc005](https://doi.org/10.3847/1538-4357/abc005)
- Recio-Blanco, A., de Laverny, P., Kordopatis, G., et al. 2014, *A&A*, 567, A5, doi: [10.1051/0004-6361/201322944](https://doi.org/10.1051/0004-6361/201322944)
- Reddy, B. E., & Lambert, D. L. 2008, *MNRAS*, 391, 95, doi: [10.1111/j.1365-2966.2008.13905.x](https://doi.org/10.1111/j.1365-2966.2008.13905.x)
- Reggiani, H., Meléndez, J., Kobayashi, C., Karakas, A., & Placco, V. 2017, *A&A*, 608, A46, doi: [10.1051/0004-6361/201730750](https://doi.org/10.1051/0004-6361/201730750)
- Reggiani, H., Schlaufman, K. C., Casey, A. R., & Ji, A. P. 2020, *AJ*, 160, 173, doi: [10.3847/1538-3881/aba948](https://doi.org/10.3847/1538-3881/aba948)
- Riello, M., De Angeli, F., Evans, D. W., et al. 2020, arXiv e-prints, arXiv:2012.01916, <https://arxiv.org/abs/2012.01916>
- Roederer, I. U., Placco, V. M., & Beers, T. C. 2016, *ApJL*, 824, L19, doi: [10.3847/2041-8205/824/2/L19](https://doi.org/10.3847/2041-8205/824/2/L19)
- Roederer, I. U., Preston, G. W., Thompson, I. B., et al. 2014, *AJ*, 147, 136, doi: [10.1088/0004-6256/147/6/136](https://doi.org/10.1088/0004-6256/147/6/136)
- Rossi, S., Beers, T. C., & Sneden, C. 1999, in *Astronomical Society of the Pacific Conference Series*, Vol. 165, The Third Stromlo Symposium: The Galactic Halo, ed. B. K. Gibson, R. S. Axelrod, & M. E. Putman, 264
- Rossi, S., Beers, T. C., Sneden, C., et al. 2005, *AJ*, 130, 2804, doi: [10.1086/497164](https://doi.org/10.1086/497164)
- Ryan, S. G., Aoki, W., Norris, J. E., & Beers, T. C. 2005, *ApJ*, 635, 349, doi: [10.1086/497282](https://doi.org/10.1086/497282)

- Safarzadeh, M., Ramirez-Ruiz, E., Andrews, J. J., et al. 2019a, *ApJ*, 872, 105, doi: [10.3847/1538-4357/aafe0e](https://doi.org/10.3847/1538-4357/aafe0e)
- Safarzadeh, M., Sarmiento, R., & Scannapieco, E. 2019b, *ApJ*, 876, 28, doi: [10.3847/1538-4357/ab1341](https://doi.org/10.3847/1538-4357/ab1341)
- Sales, L. V., Helmi, A., Abadi, M. G., et al. 2009, *MNRAS*, 400, L61, doi: [10.1111/j.1745-3933.2009.00763.x](https://doi.org/10.1111/j.1745-3933.2009.00763.x)
- Schlafly, E. F., & Finkbeiner, D. P. 2011, *ApJ*, 737, 103, doi: [10.1088/0004-637X/737/2/103](https://doi.org/10.1088/0004-637X/737/2/103)
- Schlaufman, K. C., & Casey, A. R. 2014, *ApJ*, 797, 13, doi: [10.1088/0004-637X/797/1/13](https://doi.org/10.1088/0004-637X/797/1/13)
- Schlaufman, K. C., Thompson, I. B., & Casey, A. R. 2018, *ApJ*, 867, 98, doi: [10.3847/1538-4357/aadd97](https://doi.org/10.3847/1538-4357/aadd97)
- Schlegel, D. J., Finkbeiner, D. P., & Davis, M. 1998, *ApJ*, 500, 525, doi: [10.1086/305772](https://doi.org/10.1086/305772)
- Schönrich, R., Binney, J., & Dehnen, W. 2010, *MNRAS*, 403, 1829, doi: [10.1111/j.1365-2966.2010.16253.x](https://doi.org/10.1111/j.1365-2966.2010.16253.x)
- Sestito, F., Longeard, N., Martin, N. F., et al. 2019, *MNRAS*, 484, 2166, doi: [10.1093/mnras/stz043](https://doi.org/10.1093/mnras/stz043)
- Sestito, F., Martin, N. F., Starkenburg, E., et al. 2020, *MNRAS*, 497, L7, doi: [10.1093/mnras/slaa022](https://doi.org/10.1093/mnras/slaa022)
- Sestito, F., Buck, T., Starkenburg, E., et al. 2021, *MNRAS*, 500, 3750, doi: [10.1093/mnras/staa3479](https://doi.org/10.1093/mnras/staa3479)
- Shappee, B. J., Simon, J. D., Drout, M. R., et al. 2017, *Science*, 358, 1574, doi: [10.1126/science.aaq0186](https://doi.org/10.1126/science.aaq0186)
- Skrutskie, M. F., Cutri, R. M., Stiening, R., et al. 2006, *AJ*, 131, 1163, doi: [10.1086/498708](https://doi.org/10.1086/498708)
- Smartt, S. J., Chen, T. W., Jerkstrand, A., et al. 2017, *Nature*, 551, 75, doi: [10.1038/nature24303](https://doi.org/10.1038/nature24303)
- Snedden, C., Cowan, J. J., & Gallino, R. 2008, *ARA&A*, 46, 241, doi: [10.1146/annurev.astro.46.060407.145207](https://doi.org/10.1146/annurev.astro.46.060407.145207)
- Spite, M., Caffau, E., Bonifacio, P., et al. 2013, *A&A*, 552, A107, doi: [10.1051/0004-6361/201220989](https://doi.org/10.1051/0004-6361/201220989)
- Stancliffe, R. J., Church, R. P., Angelou, G. C., & Lattanzio, J. C. 2009, *MNRAS*, 396, 2313, doi: [10.1111/j.1365-2966.2009.14900.x](https://doi.org/10.1111/j.1365-2966.2009.14900.x)
- Starkenburg, E., Oman, K. A., Navarro, J. F., et al. 2017a, *MNRAS*, 465, 2212, doi: [10.1093/mnras/stw2873](https://doi.org/10.1093/mnras/stw2873)
- Starkenburg, E., Shetrone, M. D., McConnachie, A. W., & Venn, K. A. 2014, *MNRAS*, 441, 1217, doi: [10.1093/mnras/stu623](https://doi.org/10.1093/mnras/stu623)
- Starkenburg, E., Martin, N., Youakim, K., et al. 2017b, *MNRAS*, 471, 2587, doi: [10.1093/mnras/stx1068](https://doi.org/10.1093/mnras/stx1068)
- Steinmetz, M., Zwitter, T., Siebert, A., et al. 2006, *The Astronomical Journal*, 132, 1645, doi: [10.1086/506564](https://doi.org/10.1086/506564)
- Suda, T., Aikawa, M., Machida, M. N., Fujimoto, M. Y., & Iben, Icko, J. 2004, *ApJ*, 611, 476, doi: [10.1086/422135](https://doi.org/10.1086/422135)
- Tody, D. 1986, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 627, *Instrumentation in astronomy VI*, ed. D. L. Crawford, 733, doi: [10.1117/12.968154](https://doi.org/10.1117/12.968154)
- Tody, D. 1993, in *Astronomical Society of the Pacific Conference Series*, Vol. 52, *Astronomical Data Analysis Software and Systems II*, ed. R. J. Hanisch, R. J. V. Brissenden, & J. Barnes, 173
- Tominaga, N., Iwamoto, N., & Nomoto, K. 2014, *ApJ*, 785, 98, doi: [10.1088/0004-637X/785/2/98](https://doi.org/10.1088/0004-637X/785/2/98)
- van der Walt, S., Colbert, S. C., & Varoquaux, G. 2011, *Computing in Science and Engineering*, 13, 22, doi: [10.1109/MCSE.2011.37](https://doi.org/10.1109/MCSE.2011.37)
- Vasiliev, E. 2019, *MNRAS*, 482, 1525, doi: [10.1093/mnras/sty2672](https://doi.org/10.1093/mnras/sty2672)
- Venn, K. A., Irwin, M., Shetrone, M. D., et al. 2004, *AJ*, 128, 1177, doi: [10.1086/422734](https://doi.org/10.1086/422734)
- Vincenzo, F., Spitoni, E., Calura, F., et al. 2019, *MNRAS*, 487, L47, doi: [10.1093/mnras/slz070](https://doi.org/10.1093/mnras/slz070)
- Virtanen, P., Gommers, R., Oliphant, T. E., et al. 2020, *Nature Methods*, 17, 261, doi: <https://doi.org/10.1038/s41592-019-0686-2>
- Wilson, E. B. 1927, *Journal of the American Statistical Association*, 22, 209, doi: [10.1080/01621459.1927.10502953](https://doi.org/10.1080/01621459.1927.10502953)
- Wright, E. L., Eisenhardt, P. R. M., Mainzer, A. K., et al. 2010, *AJ*, 140, 1868, doi: [10.1088/0004-6256/140/6/1868](https://doi.org/10.1088/0004-6256/140/6/1868)
- Yanny, B., Rockosi, C., Newberg, H. J., et al. 2009, *AJ*, 137, 4377, doi: [10.1088/0004-6256/137/5/4377](https://doi.org/10.1088/0004-6256/137/5/4377)
- Yong, D., Norris, J. E., Bessell, M. S., et al. 2013a, *ApJ*, 762, 26, doi: [10.1088/0004-637X/762/1/26](https://doi.org/10.1088/0004-637X/762/1/26)
- . 2013b, *ApJ*, 762, 27, doi: [10.1088/0004-637X/762/1/27](https://doi.org/10.1088/0004-637X/762/1/27)
- Yoon, J., Beers, T. C., Tian, D., & Whitten, D. D. 2019, *ApJ*, 878, 97, doi: [10.3847/1538-4357/ab1ead](https://doi.org/10.3847/1538-4357/ab1ead)
- Yoon, J., Whitten, D. D., Beers, T. C., et al. 2020, *ApJ*, 894, 7, doi: [10.3847/1538-4357/ab7daf](https://doi.org/10.3847/1538-4357/ab7daf)
- Yoon, J., Beers, T. C., Placco, V. M., et al. 2016, *ApJ*, 833, 20, doi: [10.3847/0004-637X/833/1/20](https://doi.org/10.3847/0004-637X/833/1/20)
- Yoon, J., Beers, T. C., Dietz, S., et al. 2018, *ApJ*, 861, 146, doi: [10.3847/1538-4357/aacceca](https://doi.org/10.3847/1538-4357/aacceca)
- York, D. G., Adelman, J., Anderson, John E., J., et al. 2000, *AJ*, 120, 1579, doi: [10.1086/301513](https://doi.org/10.1086/301513)
- Youakim, K., Starkenburg, E., Aguado, D. S., et al. 2017, *MNRAS*, 472, 2963, doi: [10.1093/mnras/stx2005](https://doi.org/10.1093/mnras/stx2005)
- Youakim, K., Starkenburg, E., Martin, N. F., et al. 2020, *MNRAS*, 492, 4986, doi: [10.1093/mnras/stz3619](https://doi.org/10.1093/mnras/stz3619)
- Yuan, Z., Myeong, G. C., Beers, T. C., et al. 2020, *ApJ*, 891, 39, doi: [10.3847/1538-4357/ab6ef7](https://doi.org/10.3847/1538-4357/ab6ef7)
- Zhao, G., Zhao, Y.-H., Chu, Y.-Q., Jing, Y.-P., & Deng, L.-C. 2012, *Research in Astronomy and Astrophysics*, 12, 723, doi: [10.1088/1674-4527/12/7/002](https://doi.org/10.1088/1674-4527/12/7/002)
- Zhao, G., Mashonkina, L., Yan, H. L., et al. 2016, *ApJ*, 833, 225, doi: [10.3847/1538-4357/833/2/225](https://doi.org/10.3847/1538-4357/833/2/225)

Table 1. Coordinates and Observing Details

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
00003305-7953389	4634573766005607552	0.1375	-79.8942	305.7037	-36.9587	SOAR	Goodman	SO-2019B-013
00020162-4430117	4994519032163925632	0.5067	-44.5033	329.4221	-69.9972	SOAR	Goodman	SO-2019B-013
00040305-6106367	4905632480654004608	1.0127	-61.1102	312.9121	-55.0903	Gemini South	GMOS-S	GS-2016A-Q-76
00043646+4124062	384060304935385984	1.1519	41.4017	113.5728	-20.6174	Gemini North	GMOS-N	GN-2017B-Q-75
00045403+3524010	2876804519751163008	1.2251	35.4003	112.3464	-26.5131	Gemini North	GMOS-N	GN-2016A-Q-75
00052731+0025510	2546113345293028608	1.3638	0.4309	99.2097	-60.3059	Gemini North	GMOS-N	GN-2015B-Q-86
00060902-6238019	4904480471642380928	1.5376	-62.6339	311.7034	-53.7163	Gemini South	GMOS-S	GS-2015B-Q-71
00071189+4724466	393031258963415936	1.8005	47.4133	115.2160	-14.7946	Gemini North	GMOS-N	GN-2015B-Q-86
00111339+0152512	2546752127188959232	2.8058	1.8810	102.8772	-59.4159	Gemini North	GMOS-N	GN-2017B-Q-75
00140089+3148167	2861747777456341120	3.5037	31.8047	113.7150	-30.3965	Gemini North	GMOS-N	GN-2015B-Q-86
00144636-2246093	2361100512255883904	3.6932	-22.7693	58.6142	-80.6197	Gemini South	GMOS-S	GS-2016A-Q-76
00150914-3736048	2308246644711975680	3.7881	-37.6014	336.7743	-77.0386	Gemini South	GMOS-S	GS-2017A-Q-86
00152923-2436237	2336022438732700672	3.8719	-24.6066	48.2514	-81.5320	Gemini South	GMOS-S	GS-2016A-Q-76
00152952-6121258	4904881106191486592	3.8730	-61.3572	310.4784	-55.2413	Gemini South	GMOS-S	GS-2017A-Q-86
00154806-6253207	4901504815220315648	3.9503	-62.8891	309.7887	-53.7622	Gemini South	GMOS-S	GS-2015B-Q-71
00162809-0505519	2443891577459590016	4.1171	-5.0978	100.6696	-66.4462	SOAR	Goodman	SO-2019B-013
00163655+3538314	2876439211309388672	4.1523	35.6421	115.0170	-26.6939	Gemini North	GMOS-N	GN-2015B-Q-86
00163809-4912369	4977077135617904640	4.1587	-49.2102	317.5332	-66.9196	SOAR	Goodman	SO-2019B-013
00165353+3642326	2876647328245159552	4.2231	36.7090	115.2577	-25.6474	Gemini North	GMOS-N	GN-2017B-Q-75
00170767+4614488	392109932642310272	4.2820	46.2469	116.7657	-16.2137	Gemini North	GMOS-N	GN-2017B-Q-75
00175076-6819295	4706413931618489600	4.4614	-68.3249	307.6012	-48.4976	Gemini South	GMOS-S	GS-2016A-Q-76
00182947-7829325	4635466706886248448	4.6230	-78.4923	305.0249	-38.5016	Gemini South	GMOS-S	GS-2017A-Q-86
00192284+4431554	385734487485292928	4.8452	44.5320	116.9346	-17.9662	Gemini North	GMOS-N	GN-2015B-Q-86
00202312-3950260	4997141779713479680	5.0964	-39.8406	327.8488	-75.7481	Gemini South	GMOS-S	GS-2015B-Q-71
00213396+0008219	2545302077511395968	5.3920	0.1391	106.9664	-61.8031	Gemini North	GMOS-N	GN-2017B-Q-75
00223511-4231148	4992150679821873664	5.6463	-42.5208	321.9763	-73.5240	SOAR	Goodman	SO-2019B-013
00234358-1117357	2424691974134738816	5.9316	-11.2933	99.2429	-72.8781	Gemini South	GMOS-S	GS-2017A-Q-86
00235345-6649211	4707128682896207872	5.9727	-66.8225	307.1492	-50.0796	Gemini South	GMOS-S	GS-2015B-Q-71
00241677+2941440	2858965188404148480	6.0699	29.6955	115.9138	-32.8059	Gemini North	GMOS-N	GN-2017B-Q-75
00275509+3458068	365999795656991616	6.9796	34.9685	117.4935	-27.6547	Gemini North	GMOS-N	GN-2017B-Q-75
00281899-6820268	4703742084003326080	7.0791	-68.3408	306.1569	-48.6424	SOAR	Goodman	SO-2019B-013
00293797+2103054	2796582811359131392	7.4083	21.0515	116.1304	-41.5322	Gemini North	GMOS-N	GN-2015B-Q-86
00301775+2957334	2858881625520606848	7.5740	29.9592	117.4904	-32.6891	Gemini North	GMOS-N	GN-2017B-Q-75
00303445+2816193	2857835710788936832	7.6436	28.2720	117.3655	-34.3741	Gemini North	GMOS-N	GN-2017B-Q-75
00311900+4957158	391597358363860608	7.8292	49.9544	119.6155	-12.7878	Gemini North	GMOS-N	GN-2017B-Q-75
00325147+4107490	381063654713703040	8.2145	41.1303	119.1702	-21.6057	Gemini North	GMOS-N	GN-2015B-Q-86
00331311+2033190	2796309861892160384	8.3049	20.5551	117.1793	-42.1131	Gemini North	GMOS-N	GN-2017B-Q-75
00341417-3943068	4994368227272214784	8.5591	-39.7186	317.6889	-76.9128	Gemini South	GMOS-S	GS-2015B-Q-71
00342795-2413107	2348080164279166208	8.6165	-24.2197	69.2506	-85.1960	Gemini South	GMOS-S	GS-2016A-Q-76
00351869-2854190	2319002587146050304	8.8279	-28.9053	5.4597	-86.0226	Gemini South	GMOS-S	GS-2017A-Q-86
00354136+1618228	2780880960680375808	8.9224	16.3063	117.4487	-46.3978	Gemini North	GMOS-N	GN-2017B-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
00370433+4341208	387703815888550656	9.2681	43.6891	120.1843	-19.1060	Gemini North	GMOS-N	GN-2015B-Q-86
00370966-4224102	4992914501101243264	9.2903	-42.4029	312.8062	-74.4501	Gemini South	GMOS-S	GS-2015B-Q-71
00374809-2751193	2343095974991737600	9.4505	-27.8554	18.6251	-86.8901	Gemini South	GMOS-S	GS-2016A-Q-76
00400685-4325183	4980747129334018944	10.0286	-43.4218	310.2078	-73.5462	SOAR	Goodman	SO-2019B-013
00410089+3633397	365840847508048384	10.2537	36.5610	120.5982	-26.2635	Gemini North	GMOS-N	GN-2015B-Q-86
00410467+1649478	2782313903504860032	10.2695	16.8299	119.3640	-45.9702	Gemini North	GMOS-N	GN-2017B-Q-75
00425182+1925361	2795241995584048000	10.7160	19.4267	120.1494	-43.3988	Gemini North	GMOS-N	GN-2017B-Q-75
00433651-2719379	2343181981712123520	10.9022	-27.3272	25.9649	-88.2487	Gemini South	GMOS-S	GS-2017A-Q-86
00435264-2132285	2350389894612060544	10.9694	-21.5413	105.4023	-84.1539	Gemini South	GMOS-S	GS-2017A-Q-86
00452879-5846450	4906911251332870144	11.3699	-58.7792	304.4027	-58.3320	Gemini South	GMOS-S	GS-2015B-Q-71
00463619-3739335	5000753194373767424	11.6508	-37.6593	308.1502	-79.4199	SOAR	Goodman	SO-2019B-013
00482546-7441092	4685477782827620992	12.1061	-74.6859	303.2015	-42.4408	Gemini South	GMOS-S	GS-2015B-Q-71
00482715-8224023	4629945985987660416	12.1131	-82.4007	303.0520	-34.7269	SOAR	Goodman	SO-2019B-013
00504527-6351504	4709709305405862656	12.6887	-63.8640	303.0577	-53.2641	SOAR	Goodman	SO-2019B-013
00510748-7809118	4635149768362820096	12.7813	-78.1533	302.9524	-38.9749	Gemini South	GMOS-S	GS-2016A-Q-76
00521010-6006097	4903551070783622528	13.0422	-60.1027	302.7647	-57.0253	Gemini South	GMOS-S	GS-2015B-Q-71
00522310-5804087	4907332914042242304	13.0963	-58.0691	302.6883	-59.0587	Gemini South	GMOS-S	GS-2015B-Q-71
00523111+3758286	367656523458156544	13.1297	37.9746	123.1667	-24.8967	Gemini North	GMOS-N	GN-2017B-Q-75
00582707+0633561	2553447805108682496	14.6128	6.5656	126.0693	-56.2634	Gemini North	GMOS-N	GN-2017B-Q-75
00594615+1223173	2584343227151274752	14.9423	12.3882	126.1264	-50.4320	Gemini North	GMOS-N	GN-2017B-Q-75
01021265+0428241	2551971405806340096	15.5528	4.4734	128.0453	-58.2914	SOAR	Goodman	SO-2019B-013
01024809+4300486	376344555103575808	15.7004	43.0135	125.1395	-19.8095	Gemini North	GMOS-N	GN-2015B-Q-86
01031767+0908145	2581189278047060224	15.8236	9.1373	127.8699	-53.6207	SOAR	Goodman	SO-2019B-013
01033338-7410471	4684860888081427840	15.8890	-74.1798	301.8044	-42.9218	Gemini South	GMOS-S	GS-2015B-Q-71
01040440+0504477	2552119633717667584	16.0183	5.0800	128.8189	-57.6475	Gemini North	GMOS-N	GN-2015B-Q-86
01042513+4011391	371347102956265728	16.1048	40.1942	125.6168	-22.6100	Gemini North	GMOS-N	GN-2017B-Q-75
01042908+0755213	2578034366869468800	16.1212	7.9226	128.5432	-54.8068	Gemini North	GMOS-N	GN-2017B-Q-75
01051545-0041328	2533223147709485312	16.3145	-0.6924	130.6547	-63.3569	Gemini South	GMOS-S	GS-2018B-Q-315
01065190-5244105	4927175937828177280	16.7163	-52.7363	297.5567	-64.2307	SOAR	Goodman	SO-2019B-013
01132198-6139522	4710458244623085184	18.3416	-61.6645	298.3670	-55.2690	Gemini South	GMOS-S	GS-2018B-Q-315
01200289-0158201	2533312006288169600	20.0121	-1.9723	139.3789	-63.9267	Gemini South	GMOS-S	GS-2015B-Q-71
01250922-5614027	4910744423745801472	21.2884	-56.2341	293.4760	-60.2709	SOAR	Goodman	SO-2019B-013
01253364-4148345	4984027698370924672	21.3902	-41.8096	279.6701	-73.7420	Gemini South	GMOS-S	GS-2015B-Q-71
01253802-2911025	...	21.4106	-29.1842	230.1786	-82.1877	Gemini South	GMOS-S	GS-2018B-Q-315
01291742-7139220	4687775246726470144	22.3226	-71.6561	298.7235	-45.1615	Gemini South	GMOS-S	GS-2018B-Q-315
01311599-4016510	5008222486100643200	22.8166	-40.2808	273.3931	-74.4808	SOAR	Goodman	SO-2019B-013
01315199-6547540	4710799574264331904	22.9666	-65.7984	296.3937	-50.8133	Gemini South	GMOS-S	GS-2018B-Q-315
01323787-1530302	2451901038631956224	23.1578	-15.5085	164.4872	-74.9483	Gemini South	GMOS-S	GS-2018B-Q-315
01363655+5451319	409152813849385216	24.1524	54.8588	129.4589	-7.4395	Gemini North	GMOS-N	GN-2017B-Q-75
01372246-4611110	4931138955692103424	24.3436	-46.1864	280.4367	-68.8839	SOAR	Goodman	SO-2019B-013
01373378-6921368	4691261969896942848	24.3907	-69.3602	296.9761	-47.2310	Gemini South	GMOS-S	GS-2018B-Q-315
01382048-7637319	4636801853303548416	24.5853	-76.6256	299.4044	-40.1797	Gemini South	GMOS-S	GS-2018B-Q-315

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
01390079-7811248	4633446629147784320	24.7535	-78.1903	299.8358	-38.6505	Gemini South	GMOS-S	GS-2017A-Q-86
01394297-1615477	2452308064092390784	24.9291	-16.2632	171.2361	-74.4053	SOAR	Goodman	SO-2019B-013
01430726-6445174	4710973567683306624	25.7803	-64.7549	294.1237	-51.4805	SOAR	Goodman	SO-2019B-013
01481644-5717024	4718885485854328064	27.0685	-57.2840	288.3480	-58.2058	Gemini South	GMOS-S	GS-2016A-Q-76
01481836-6022102	4717520854484700288	27.0765	-60.3695	290.5928	-55.3756	Gemini South	GMOS-S	GS-2018B-Q-315
01512909-5049125	4940475493039087872	27.8713	-50.8202	281.2535	-63.7058	SOAR	Goodman	SO-2019B-013
01532990-7617103	4636731828156259712	28.3747	-76.2862	298.1650	-40.2623	SOAR	Goodman	SO-2019B-013
01535484+4743406	357061938652034816	28.4785	47.7280	133.6815	-13.8356	Gemini North	GMOS-N	GN-2017B-Q-75
01541382-4927292	4940875062436326784	28.5577	-49.4581	278.7135	-64.6132	SOAR	Goodman	SO-2019B-013
01542953-4953166	4940665261873824640	28.6231	-49.8880	279.1886	-64.2331	SOAR	Goodman	SO-2019B-013
01555066-6400155	4699467590815290368	28.9611	-64.0043	291.6243	-51.6868	SOAR	Goodman	SO-2019B-013
01555808+5040276	359446465839056512	28.9921	50.6744	133.2623	-10.8986	Gemini North	GMOS-N	GN-2015B-Q-86
01570453-6511318	4699066135928244224	29.2689	-65.1922	292.1822	-50.5441	Gemini South	GMOS-S	GS-2018B-Q-315
01585657-1624249	5141897776909177856	29.7357	-16.4069	181.9525	-71.0454	Gemini South	GMOS-S	GS-2015B-Q-71
01592159+8341476	572808964949945088	29.8401	83.6966	124.9014	21.0861	Gemini North	GMOS-N	GN-2018B-Q-316
02002105-2520170	5121763691780187008	30.0877	-25.3381	210.2052	-74.4554	SOAR	Goodman	SO-2019B-013
02002992+5657571	505258239019253760	30.1247	56.9659	132.2740	-4.6480	Gemini North	GMOS-N	GN-2017B-Q-75
02013041-0949339	2462500536881830528	30.3767	-9.8261	169.9307	-66.0759	Gemini South	GMOS-S	GS-2015B-Q-71
02020691-8507254	4616783629211669888	30.5286	-85.1237	301.1930	-31.7637	Gemini South	GMOS-S	GS-2018B-Q-315
02023240+5535052	504560598882408960	30.6353	55.5846	132.9213	-5.9019	Gemini North	GMOS-N	GN-2017B-Q-75
02062328-0718389	2487426224965026688	31.5970	-7.3108	168.2547	-63.3794	Gemini South	GMOS-S	GS-2018B-Q-315
02091623-2825011	5117222021562768256	32.3176	-28.4170	221.7399	-72.7539	Gemini South	GMOS-S	GS-2015B-Q-71
02121057-2136569	5124244804192255104	33.0441	-21.6158	200.6173	-70.8323	Gemini South	GMOS-S	GS-2017B-Q-75
02131127-3617490	4965179285932359552	33.2970	-36.2969	245.8909	-70.4025	Gemini South	GMOS-S	GS-2017B-Q-75
02143996-2731561	5116644773662434176	33.6664	-27.5323	218.9885	-71.5330	Gemini South	GMOS-S	GS-2017B-Q-75
02151298+4941500	355587661060325120	33.8041	49.6972	136.5532	-10.9459	Gemini North	GMOS-N	GN-2017B-Q-75
02165682+4443112	352161380966711936	34.2367	44.7198	138.5272	-15.5472	Gemini North	GMOS-N	GN-2017B-Q-75
02165716-7547064	4637170571951777280	34.2382	-75.7852	296.2011	-40.2054	Gemini South	GMOS-S	GS-2015B-Q-71
02184236-5351323	4743265369493805696	34.6766	-53.8590	277.8857	-58.8189	Gemini South	GMOS-S	GS-2017B-Q-75
02184254-6111160	4701711045508666112	34.6773	-61.1878	285.6523	-52.9141	SOAR	Goodman	SO-2019B-013
02194944-2701309	5117093275622914688	34.9560	-27.0252	217.7145	-70.3506	Gemini South	GMOS-S	GS-2017B-Q-75
02200131-5909599	4738094228868954496	35.0056	-59.1667	283.5013	-54.4926	Gemini South	GMOS-S	GS-2015B-Q-71
02200416-3505332	4966846038184021888	35.0173	-35.0926	241.2242	-69.4842	Gemini South	GMOS-S	GS-2017B-Q-75
02202248-3221349	4970735118186763520	35.0937	-32.3596	233.4805	-70.0406	Gemini South	GMOS-S	GS-2017B-Q-75
02205873-6708044	4696223279895236992	35.2447	-67.1346	290.2242	-47.7241	SOAR	Goodman	SO-2019B-013
02215591-1414291	5146733910084621440	35.4834	-14.2415	186.0495	-65.2896	Gemini South	GMOS-S	GS-2015B-Q-71
02230945+3819551	331739842266523264	35.7894	38.3320	142.0554	-21.1101	Gemini North	GMOS-N	GN-2017B-Q-75
02234760-4630467	4940121690813101056	35.9483	-46.5130	265.8475	-63.4123	SOAR	Goodman	SO-2019B-013
02242892+7959144	562642266262613504	36.1207	79.9873	127.0697	17.8716	Gemini North	GMOS-N	GN-2015B-Q-86
02243601-3101131	5066948639089274496	36.1501	-31.0203	229.3308	-69.3159	Gemini South	GMOS-S	GS-2017B-Q-75
02255030-7822010	4632830898340209920	36.4597	-78.3670	297.0785	-37.6667	Gemini South	GMOS-S	GS-2018B-Q-315
02260082-2250455	5120483443633370496	36.5035	-22.8460	206.8474	-68.1804	Gemini South	GMOS-S	GS-2018B-Q-315

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
02263468-7052018	4645240501967006720	36.6445	-70.8672	292.2985	-44.2445	SOAR	Goodman	SO-2019B-013
02263472-1610120	5145471979973495040	36.6447	-16.1700	191.3924	-65.3900	Gemini South	GMOS-S	GS-2017B-Q-75
02263559-6118229	4701661876723001088	36.6483	-61.3064	284.4782	-52.2782	SOAR	Goodman	SO-2019B-013
02265573-3957537	4951576334231196160	36.7322	-39.9649	252.0312	-66.4411	SOAR	Goodman	SO-2019B-013
02272940-1844371	5131351909915040640	36.8726	-18.7436	197.2147	-66.4011	Gemini South	GMOS-S	GS-2015B-Q-71
02281118+3107248	132459372685231872	37.0470	31.1235	146.1890	-27.3420	Gemini North	GMOS-N	GN-2017B-Q-75
02284342+8235565	569513114421444480	37.1809	82.5990	126.1756	20.3478	Gemini North	GMOS-N	GN-2015B-Q-86
02295644-7231067	4643772207267807104	37.4853	-72.5185	293.1278	-42.6844	Gemini South	GMOS-S	GS-2018B-Q-315
02302280-1713235	5133294712601873024	37.5950	-17.2232	194.6476	-65.1075	Gemini South	GMOS-S	GS-2017B-Q-75
02302823+3146355	134052560743210624	37.6176	31.7765	146.3835	-26.5463	Gemini North	GMOS-N	GN-2017B-Q-75
02314914-4251147	4950048081786940160	37.9548	-42.8541	257.1538	-64.2873	Gemini South	GMOS-S	GS-2015B-Q-71
02322533-2955268	5067349028825362176	38.1056	-29.9241	226.1060	-67.6886	Gemini South	GMOS-S	GS-2017B-Q-75
02332987-2602004	5070849431466425600	38.3746	-26.0334	216.0152	-67.1941	Gemini South	GMOS-S	GS-2015B-Q-71
02335901-5218323	4744814203419011456	38.4959	-52.3090	272.6444	-58.3644	Gemini South	GMOS-S	GS-2015B-Q-71
02343390-3438203	5062336050373022976	38.6413	-34.6390	238.0880	-66.7124	Gemini South	GMOS-S	GS-2015B-Q-71
02345434-3349391	5062448200558971136	38.7264	-33.8275	236.0348	-66.7947	Gemini South	GMOS-S	GS-2017B-Q-75
02361077-1202559	5171442680844060160	39.0449	-12.0489	186.5144	-61.1920	SOAR	Goodman	SO-2019B-013
02371057-4036121	4951834822543543040	39.2943	-40.6033	251.4700	-64.3986	Gemini South	GMOS-S	GS-2015B-Q-71
02372192+4302214	340142202749502464	39.3413	43.0393	142.7226	-15.7250	Gemini North	GMOS-N	GN-2017B-Q-75
02384449-3325102	5062531071950987392	39.6854	-33.4195	234.7169	-66.0690	SOAR	Goodman	SO-2019B-013
02394381-3631306	4953863662014601216	39.9325	-36.5252	242.0148	-65.2598	Gemini South	GMOS-S	GS-2017B-Q-75
02401392+2556291	126323578110142848	40.0580	25.9414	151.5268	-30.8206	Gemini North	GMOS-N	GN-2015B-Q-86
02404390+4457499	340915713477131008	40.1829	44.9638	142.4631	-13.7231	Gemini North	GMOS-N	GN-2017B-Q-75
02425864-3709379	4953584523499875712	40.7443	-37.1605	243.0703	-64.4695	SOAR	Goodman	SO-2019B-013
02431746-8608453	4613478261037323776	40.8231	-86.1459	300.8352	-30.5167	Gemini South	GMOS-S	GS-2017B-Q-75
02435125-2942551	5065856377366623872	40.9636	-29.7153	225.5826	-65.2092	Gemini South	GMOS-S	GS-2017B-Q-75
02451977+1332222	31933391083889152	41.3324	13.5395	160.7079	-40.8320	Gemini North	GMOS-N	GN-2017B-Q-75
02462323-3137296	5064607984993521792	41.5967	-31.6249	230.0672	-64.6332	Gemini South	GMOS-S	GS-2017B-Q-75
02471497-6303000	4721297363392975488	41.8124	-63.0500	283.2247	-49.4119	Gemini South	GMOS-S	GS-2016B-Q-81
02494852-2229202	5077735500993403648	42.4522	-22.4889	209.6795	-62.8053	Gemini South	GMOS-S	GS-2015B-Q-71
02501156+3457476	140083622534201088	42.5482	34.9633	148.8662	-21.8585	Gemini North	GMOS-N	GN-2017B-Q-75
02512543+8333571	569663953674510464	42.8557	83.5659	126.3847	21.5144	Gemini North	GMOS-N	GN-2018B-Q-316
02523341-4416060	4755176207159038080	43.1392	-44.2683	256.1483	-60.3013	SOAR	Goodman	SO-2019B-013
02525369+2107466	109283900954164992	43.2238	21.1296	157.3639	-33.4977	Gemini North	GMOS-N	GN-2017B-Q-75
02525416-3228483	5052264558220148352	43.2256	-32.4798	231.8358	-63.2073	Gemini South	GMOS-S	GS-2017B-Q-75
02532757-3454050	5049605732946898432	43.3648	-34.9014	237.1222	-62.8454	Gemini South	GMOS-S	GS-2017B-Q-75
02533614-6234511	4721372684235614848	43.4007	-62.5809	281.9180	-49.2651	SOAR	Goodman	SO-2019B-013
02564805-1942473	5128076774013414912	44.2002	-19.7132	205.2065	-60.3877	Gemini South	GMOS-S	GS-2016B-Q-81
02571027+3318455	136508702211948672	44.2928	33.3127	151.0988	-22.5924	Gemini North	GMOS-N	GN-2017B-Q-75
02580877+0829424	8791969854015488	44.5366	8.4951	168.1592	-42.9789	Gemini North	GMOS-N	GN-2017B-Q-75
02590016-7209504	4645469170322185984	44.7508	-72.1640	290.4102	-41.7221	Gemini South	GMOS-S	GS-2016B-Q-81
03042561+3112028	135287316592202880	46.1067	31.2008	153.7141	-23.6053	Gemini North	GMOS-N	GN-2017B-Q-79

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
03042843-3406046	5050991770433282688	46.1185	-34.1013	234.9072	-60.6791	SOAR	Goodman	SO-2019B-013
03044130-3635405	5047482782152551808	46.1721	-36.5946	239.9268	-60.3394	Gemini South	GMOS-S	GS-2015B-Q-71
03053573+2834227	115967213665888000	46.3989	28.5730	155.5073	-25.6821	Gemini North	GMOS-N	GN-2015B-Q-86
03060595-5251430	4746980344406420736	46.5248	-52.8620	268.0662	-54.1651	Gemini South	GMOS-S	GS-2017B-Q-75
03080797+3836489	142648478221664256	47.0332	38.6136	150.2366	-16.9046	Gemini North	GMOS-N	GN-2015B-Q-86
03091996-5853578	4724087928200048768	47.3332	-58.8994	275.6901	-50.3023	Gemini South	GMOS-S	GS-2017B-Q-75
03095592-0459281	5182694120770155264	47.4830	-4.9912	185.2953	-50.2884	Gemini South	GMOS-S	GS-2015B-Q-71
03104602+4514503	433115020506112512	47.6919	45.2473	147.1148	-10.9824	Gemini North	GMOS-N	GN-2017B-Q-79
03121034-5703094	4727345712434297984	48.0431	-57.0526	272.9948	-51.1012	SOAR	Goodman	SO-2019B-013
03123270-2849566	5059444369153859200	48.1362	-28.8324	224.4491	-58.9137	Gemini South	GMOS-S	GS-2017B-Q-75
03123346-5234570	4735321737284031232	48.1395	-52.5825	266.7987	-53.4763	Gemini South	GMOS-S	GS-2017B-Q-75
03131491-8107109	4619392843320436608	48.3121	-81.1197	296.7151	-34.2243	SOAR	Goodman	SO-2019B-013
03134048-8045218	4619419089865071744	48.4186	-80.7560	296.4234	-34.4973	Gemini South	GMOS-S	GS-2017B-Q-75
03135196+4230102	240424332130561024	48.4666	42.5028	149.0726	-13.0255	Gemini North	GMOS-N	GN-2017B-Q-79
03152783+3353586	137535813574478592	48.8659	33.8997	154.2316	-20.0755	Gemini North	GMOS-N	GN-2015B-Q-86
03155572+3357169	125528253246150656	48.9822	33.9547	154.2839	-19.9760	Gemini North	GMOS-N	GN-2015B-Q-86
03155933-7432577	4639776204054863232	48.9972	-74.5494	291.2478	-39.1230	Gemini South	GMOS-S	GS-2017B-Q-75
03163710+2332211	110907432953980800	49.1547	23.5392	161.0217	-28.3927	Gemini North	GMOS-N	GN-2015B-Q-86
03170396-3740469	4854289415101796608	49.2665	-37.6798	241.2914	-57.7376	SOAR	Goodman	SO-2019B-013
03171573-3747479	4854284497363037696	49.3155	-37.7967	241.4981	-57.6823	Gemini South	GMOS-S	GS-2016B-Q-81
03173348-3705188	4854694001021568896	49.3901	-37.0885	240.1693	-57.7204	Gemini South	GMOS-S	GS-2015B-Q-71
03180842+1814447	56110625281842816	49.5351	18.2458	165.1147	-32.3536	Gemini North	GMOS-N	GN-2015B-Q-86
03190720-5245069	4735169768457507968	49.7800	-52.7519	266.2325	-52.5262	Gemini South	GMOS-S	GS-2017B-Q-75
03214149-5553303	4733473496892938368	50.4229	-55.8917	270.3148	-50.6372	Gemini South	GMOS-S	GS-2017B-Q-75
03220165-0020329	3262842880464520576	50.5069	-0.3425	182.7160	-45.0232	Gemini South	GMOS-S	GS-2016B-Q-81
03222245-3731294	4854443793406263040	50.5935	-37.5249	240.7492	-56.7161	Gemini South	GMOS-S	GS-2017B-Q-75
03223653+0859382	11176917949244800	50.6522	8.9939	173.6531	-38.5624	Gemini North	GMOS-N	GN-2017B-Q-79
03242169-3515217	4860920810247328256	51.0904	-35.2560	236.5766	-56.5207	SOAR	Goodman	SO-2019B-013
03242519-1550054	5106733402188456320	51.1050	-15.8348	203.2431	-52.8317	Gemini South	GMOS-S	GS-2015B-Q-71
03252266+8009505	568038153934104320	51.3446	80.1640	129.3988	19.2853	Gemini North	GMOS-N	GN-2015B-Q-86
03260086-4126000	4849648891917127424	51.5036	-41.4334	247.4454	-55.3754	Gemini South	GMOS-S	GS-2017B-Q-75
03260534-2006507	5101544016542831232	51.5223	-20.1141	210.1724	-54.0333	Gemini South	GMOS-S	GS-2017B-Q-75
03263031+0616326	9265348264761984	51.6263	6.2757	177.0232	-39.7860	Gemini North	GMOS-N	GN-2017B-Q-75
03265306-0053348	3264007336293442048	51.7211	-0.8930	184.3959	-44.4288	Gemini South	GMOS-S	GS-2017B-Q-75
03265389+0202281	3268028903151246720	51.7245	2.0412	181.2838	-42.5542	SOAR	Goodman	SO-2019B-013
03275664-4544078	4846530329047408384	51.9860	-45.7356	254.4884	-53.9429	Gemini South	GMOS-S	GS-2016B-Q-81
03283529-4000252	4853194778260569856	52.1471	-40.0070	244.8265	-55.1614	Gemini South	GMOS-S	GS-2017B-Q-75
03283748+1856359	57481853722629888	52.1562	18.9433	166.8230	-30.2260	Gemini North	GMOS-N	GN-2017B-Q-75
03292423-6057094	4722654951015751680	52.3509	-60.9526	275.9767	-47.0630	SOAR	Goodman	SO-2019B-013
03304035-0321071	3249179288121898752	52.6682	-3.3520	187.9605	-45.1673	Gemini South	GMOS-S	GS-2017B-Q-75
03305484-0304088	3249204710032811648	52.7285	-3.0692	187.6878	-44.9517	Gemini South	GMOS-S	GS-2015B-Q-71
03312821+0749469	11354660875621376	52.8676	7.8297	176.6676	-37.8221	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
03343133-0555030	3247331455752180992	53.6306	-5.9175	191.7485	-45.8426	Gemini South	GMOS-S	GS-2017B-Q-75
03351518+7823252	555315734952674816	53.8133	78.3904	130.9107	18.1430	Gemini North	GMOS-N	GN-2017B-Q-79
03354665-1356010	5113319751716905344	53.9444	-13.9337	202.3403	-49.5417	Gemini South	GMOS-S	GS-2016B-Q-81
03362369+2036490	58156438465188096	54.0987	20.6136	167.1416	-27.7656	Gemini North	GMOS-N	GN-2016A-Q-75
03362874-6005593	4728790397697259392	54.1197	-60.0998	274.2394	-46.7852	Gemini South	GMOS-S	GS-2016B-Q-81
03365068-2327557	5086423493982030848	54.2112	-23.4655	216.7461	-52.5992	Gemini South	GMOS-S	GS-2017B-Q-75
03365778+2917172	120001145732321536	54.2407	29.2881	161.0901	-21.0605	Gemini North	GMOS-N	GN-2015B-Q-86
03370393-4829266	4833641097832497408	54.2664	-48.4907	258.0277	-51.6148	Gemini South	GMOS-S	GS-2015B-Q-71
03370580+1802236	56464972968303104	54.2743	18.0398	169.2466	-29.5657	Gemini North	GMOS-N	GN-2017B-Q-79
03385093-0255535	3250559347013995136	54.7122	-2.9315	189.1469	-43.2648	SOAR	Goodman	SO-2019B-013
03391370+0310345	3271273935626311808	54.8071	3.1763	182.7652	-39.4684	Gemini North	GMOS-N	GN-2017B-Q-79
03401638-5917516	4728932754388052224	55.0682	-59.2980	272.8761	-46.7729	Gemini South	GMOS-S	GS-2015B-Q-71
03410147-1812508	5107448320968631040	55.2562	-18.2142	209.2086	-50.0718	Gemini South	GMOS-S	GS-2017B-Q-75
03421349+2729013	71184787964000000	55.5562	27.4837	163.2853	-21.7060	Gemini North	GMOS-N	GN-2017B-Q-79
03425047-1013432	5116038431655398400	55.7103	-10.2287	198.6045	-46.3091	SOAR	Goodman	SO-2019B-013
03431186+7807495	554502989702092416	55.7996	78.1304	131.4136	18.1933	Gemini North	GMOS-N	GN-2017B-Q-79
03435581-3212071	4863399349974669440	55.9825	-32.2020	231.3538	-52.4351	Gemini South	GMOS-S	GS-2016B-Q-81
03440716-2841235	5080387454320334592	56.0298	-28.6899	225.6565	-52.0274	Gemini South	GMOS-S	GS-2015B-Q-71
03440987-4057281	4854966508106088064	56.0412	-40.9578	245.6726	-52.0917	Gemini South	GMOS-S	GS-2016B-Q-81
03445544-7517390	4628961755579625600	56.2311	-75.2943	290.2813	-37.2488	Gemini South	GMOS-S	GS-2017B-Q-75
03453731-8211290	4616039813892309376	56.4055	-82.1914	296.5497	-32.6428	SOAR	Goodman	SO-2019B-013
03462539+2125305	63534390354375040	56.6058	21.4251	168.4685	-25.5909	Gemini North	GMOS-N	GN-2016A-Q-75
03463330-0023036	3251527020325320960	56.6387	-0.3844	187.8892	-40.2127	Gemini South	GMOS-S	GS-2015B-Q-71
03464056-1703266	5108001001657825280	56.6690	-17.0574	208.3083	-48.3965	Gemini South	GMOS-S	GS-2017B-Q-75
03470283-7933197	4625542858531568768	56.7620	-79.5555	294.1708	-34.3799	Gemini South	GMOS-S	GS-2017B-Q-75
03470366+7232599	543671700657298816	56.7653	72.5500	135.3102	14.0468	Gemini North	GMOS-N	GN-2015B-Q-86
03475502-2219560	5087674875655599744	56.9792	-22.3323	216.0768	-49.8404	Gemini South	GMOS-S	GS-2017B-Q-75
03481276-2657207	5081024380790201984	57.0532	-26.9558	223.1516	-50.8488	Gemini South	GMOS-S	GS-2015B-Q-71
03494330-1035255	3194196834787169152	57.4304	-10.5905	200.2106	-44.9929	Gemini South	GMOS-S	GS-2016B-Q-81
03494712-2012428	5094777381468797568	57.4464	-20.2119	213.1700	-48.7940	Gemini South	GMOS-S	GS-2016B-Q-81
03505656+1915396	50799709243487232	57.7357	19.2610	170.9855	-26.4207	Gemini North	GMOS-N	GN-2016A-Q-75
03511385-1222556	5114516604484590848	57.8077	-12.3821	202.7145	-45.4804	Gemini South	GMOS-S	GS-2017B-Q-75
03514691-4821339	4830105381971162368	57.9455	-48.3594	256.7292	-49.3141	Gemini South	GMOS-S	GS-2016B-Q-81
03515804+7834544	554892216818025088	57.9919	78.5817	131.4568	18.8240	Gemini North	GMOS-N	GN-2015B-Q-86
03522200-7822390	4626118933904711936	58.0917	-78.3775	292.8818	-34.9529	SOAR	Goodman	SO-2019B-013
03525823-2712362	5080850520514122368	58.2427	-27.2101	223.8514	-49.8553	Gemini South	GMOS-S	GS-2015B-Q-71
03532071+0332467	3272181586771744640	58.3364	3.5462	185.1957	-36.4882	SOAR	Goodman	SO-2019B-013
03535378-8214319	4616030261884997504	58.4738	-82.2423	296.3713	-32.4011	Gemini South	GMOS-S	GS-2017B-Q-75
03542750-4930350	4829790406249501824	58.6146	-49.5098	258.2453	-48.5895	Gemini South	GMOS-S	GS-2015B-Q-71
03550575+0448406	3273182073633848576	58.7740	4.8113	184.2998	-35.3638	SOAR	Goodman	SO-2019B-013
03551870-3540553	4858448073019453568	58.8280	-35.6820	237.0691	-50.2130	Gemini South	GMOS-S	GS-2017B-Q-75
03552492-3137538	4886536888554252288	58.8539	-31.6316	230.7668	-49.9592	Gemini South	GMOS-S	GS-2015B-Q-71

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
03570714+1150353	3304873572159327104	59.2798	11.8432	178.2663	-30.4563	Gemini North	GMOS-N	GN-2016A-Q-75
03575259-3507496	4858859741341036032	59.4691	-35.1304	236.2315	-49.6774	Gemini South	GMOS-S	GS-2017B-Q-75
03580690-4125514	4842342190474113920	59.5288	-41.4310	245.9431	-49.4306	Gemini South	GMOS-S	GS-2015B-Q-71
03582857+0851479	3301417188637954304	59.6191	8.8633	181.1615	-32.1514	Gemini North	GMOS-N	GN-2017B-Q-79
03582979-0646599	3196842083667299968	59.6242	-6.7834	197.1082	-41.2412	Gemini South	GMOS-S	GS-2017B-Q-75
03583609-3024329	4887268613542620160	59.6504	-30.4092	229.0155	-49.1411	SOAR	Goodman	SO-2019B-013
03585372-2512589	5083157811305565184	59.7239	-25.2164	221.2993	-48.1409	Gemini South	GMOS-S	GS-2016B-Q-81
03590972-7052417	4665955133531907840	59.7905	-70.8783	284.9861	-39.0435	SOAR	Goodman	SO-2019B-013
04021386-2714330	4890018148526236416	60.5578	-27.2426	224.4957	-47.8406	SOAR	Goodman	SO-2019B-013
04030414-2123136	5090671530172203648	60.7673	-21.3871	216.2402	-46.2011	Gemini South	GMOS-S	GS-2015B-Q-71
04032141-5057006	4828667358199528064	60.8389	-50.9504	259.7591	-46.8392	Gemini South	GMOS-S	GS-2016B-Q-81
04034276+0516322	3272889569179614464	60.9282	5.2757	185.4555	-33.3863	Gemini North	GMOS-N	GN-2015B-Q-86
04051129-3610404	4857845781166112384	61.2971	-36.1779	237.8955	-48.2251	Gemini South	GMOS-S	GS-2017B-Q-84
04062658-1417389	5110102993011576192	61.6107	-14.2942	207.3194	-42.9383	SOAR	Goodman	SO-2019B-013
04064080-2822221	4889098510129080064	61.6700	-28.3728	226.4113	-47.0866	Gemini South	GMOS-S	GS-2017B-Q-84
04065230-1132234	3190316692611552000	61.7180	-11.5399	204.0054	-41.6766	Gemini South	GMOS-S	GS-2016B-Q-81
04065870-5405560	4779874227616110592	61.7446	-54.0989	263.9083	-45.4414	Gemini South	GMOS-S	GS-2016B-Q-81
04071847-3844270	4844183765074837760	61.8270	-38.7409	241.7322	-47.8230	Gemini South	GMOS-S	GS-2017B-Q-84
04073220-1508180	5097968885766682240	61.8842	-15.1384	208.5218	-43.0334	Gemini South	GMOS-S	GS-2017B-Q-84
04081065-4723248	4831180463825371776	62.0443	-47.3901	254.4277	-46.8376	Gemini South	GMOS-S	GS-2017B-Q-84
04082208-8054055	4622225700669724160	62.0919	-80.9015	294.7378	-32.8298	SOAR	Goodman	SO-2019B-013
04082291-3306502	4882442375971513216	62.0954	-33.1140	233.4033	-47.3783	Gemini South	GMOS-S	GS-2017B-Q-84
04095634-2018250	5091033814957326464	62.4848	-20.3069	215.4843	-44.3417	Gemini South	GMOS-S	GS-2017B-Q-84
04123785-0354082	3203733925629461376	63.1577	-3.9023	196.2494	-36.7433	Gemini South	GMOS-S	GS-2017B-Q-84
04133760-2855548	4885822480873873408	63.4067	-28.9319	227.6060	-45.6879	Gemini South	GMOS-S	GS-2017B-Q-84
04144546-4431586	4837831066064068480	63.6894	-44.5330	250.0909	-46.0965	Gemini South	GMOS-S	GS-2017B-Q-84
04152012-4554089	4837327760319848576	63.8339	-45.9025	252.0328	-45.8433	Gemini South	GMOS-S	GS-2016B-Q-81
04161576-0521188	3202575628785925888	64.0657	-5.3552	198.3846	-36.7066	Gemini South	GMOS-S	GS-2015B-Q-71
04162853-6636540	4668867224438266368	64.1189	-66.6150	279.1833	-39.7610	Gemini South	GMOS-S	GS-2017B-Q-84
04163240-0602269	3202394930922308096	64.1350	-6.0408	199.1708	-36.9880	Gemini South	GMOS-S	GS-2015B-Q-71
04174265-5558407	4778645523371812480	64.4278	-55.9779	265.8096	-43.4287	Gemini South	GMOS-S	GS-2017B-Q-84
04211598-4852031	4782730209069106432	65.3166	-48.8675	256.0015	-44.4416	SOAR	Goodman	SO-2019B-013
04212925-5219577	4780985799511960576	65.3718	-52.3327	260.7408	-43.7828	Gemini South	GMOS-S	GS-2017B-Q-84
04213031-2030287	5091573542023760384	65.3763	-20.5080	216.9266	-41.8366	Gemini South	GMOS-S	GS-2017B-Q-84
04215801-2739310	4892329974803162752	65.4917	-27.6586	226.3554	-43.6383	Gemini South	GMOS-S	GS-2015B-Q-71
04225741-8308401	4615741777521531136	65.7392	-83.1445	296.5485	-31.1202	Gemini South	GMOS-S	GS-2017B-Q-84
04242725-8157493	4621912305496245248	66.1137	-81.9637	295.3635	-31.7317	SOAR	Goodman	SO-2019B-013
04251520-6213209	4675852078212908416	66.3134	-62.2225	273.3995	-40.5733	Gemini South	GMOS-S	GS-2017B-Q-84
04262201-3615167	4869018507227798400	66.5917	-36.2547	238.3376	-43.9642	Gemini South	GMOS-S	GS-2015B-Q-71
04282895-3353452	4871041608622321664	67.1206	-33.8959	235.1545	-43.2975	Gemini South	GMOS-S	GS-2015B-Q-71
04291257-4921466	4787721991859465728	67.3024	-49.3630	256.4256	-43.0847	Gemini South	GMOS-S	GS-2015B-Q-71
04293837-5448372	4776030816001572736	67.4099	-54.8103	263.6985	-42.0761	Gemini South	GMOS-S	GS-2015B-Q-71

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
04311275-2258353	4898098833139598464	67.8031	-22.9765	220.9589	-40.4386	Gemini South	GMOS-S	GS-2017B-Q-84
04313335-7337168	4652567991051879168	67.8891	-73.6213	286.4338	-35.5434	SOAR	Goodman	SO-2019B-013
04325046-3205240	4871721965802188160	68.2102	-32.0900	232.8953	-42.1392	Gemini South	GMOS-S	GS-2015B-Q-71
04330582-1605256	3172371116657963008	68.2743	-16.0905	212.7851	-37.7178	Gemini South	GMOS-S	GS-2015B-Q-71
04332408+7049217	500082940861162240	68.3503	70.8227	139.2357	15.3699	Gemini North	GMOS-N	GN-2015B-Q-86
04332826-0431033	3201331222141772928	68.3678	-4.5176	200.0894	-32.5706	SOAR	Goodman	SO-2019B-013
04334315+8752515	575291322904958208	68.4305	87.8810	124.8749	25.9169	Gemini North	GMOS-N	GN-2018B-Q-316
04354147-4750031	4788319503413123200	68.9228	-47.8342	254.2029	-42.1835	Gemini South	GMOS-S	GS-2015B-Q-71
04354314-5355093	4777636927611794432	68.9298	-53.9192	262.2959	-41.3823	Gemini South	GMOS-S	GS-2017B-Q-84
04363802+7949143	556538739776801664	69.1583	79.8207	132.0051	21.1943	Gemini North	GMOS-N	GN-2017B-Q-79
04391892-3404504	4868176796716806272	69.8287	-34.0803	235.7989	-41.0955	Gemini South	GMOS-S	GS-2016B-Q-81
04392332-2434534	4894484605277323648	69.8472	-24.5815	223.6485	-39.0961	Gemini South	GMOS-S	GS-2015B-Q-71
04392855-3957548	4816386358778340608	69.8690	-39.9653	243.6100	-41.6288	Gemini South	GMOS-S	GS-2017B-Q-84
04400253-1922270	2978208560171576448	70.0106	-19.3742	217.3987	-37.3499	Gemini South	GMOS-S	GS-2015B-Q-71
04404386-2741005	4879633570439853440	70.1828	-27.6835	227.6267	-39.5939	Gemini South	GMOS-S	GS-2015B-Q-71
04404847-4214219	4814898930000598272	70.2020	-42.2395	246.6587	-41.4585	Gemini South	GMOS-S	GS-2017B-Q-84
04404877-3530531	4867833886528092288	70.2032	-35.5148	237.7374	-40.9790	SOAR	Goodman	SO-2019B-013
04414545-1703252	2980627661847718016	70.4394	-17.0570	214.8726	-36.1503	Gemini South	GMOS-S	GS-2016B-Q-81
04452944-4656234	4786751256234998272	71.3726	-46.9399	252.8797	-40.5822	Gemini South	GMOS-S	GS-2017B-Q-84
04455221+8238074	569892445935443200	71.4677	82.6354	129.7655	23.1288	Gemini North	GMOS-N	GN-2018B-Q-316
04460040-5244239	4777958977143271936	71.5017	-52.7400	260.4558	-40.0392	Gemini South	GMOS-S	GS-2017B-Q-84
04460379-4440454	4790350855440186752	71.5158	-44.6793	249.9023	-40.5264	SOAR	Goodman	SO-2019B-013
04480413-5133186	4784117101252301056	72.0172	-51.5552	258.8745	-39.8533	Gemini South	GMOS-S	GS-2016B-Q-81
04481274-3428106	4873248568978164608	72.0531	-34.4696	236.6554	-39.3344	Gemini South	GMOS-S	GS-2016B-Q-81
04482945-5127292	4784118686097335808	72.1227	-51.4581	258.7408	-39.7971	Gemini South	GMOS-S	GS-2017B-Q-84
04504247-4831497	4786320148893885568	72.6770	-48.5305	254.9118	-39.6414	Gemini South	GMOS-S	GS-2016B-Q-81
04505386+1803498	3406732187621193600	72.7245	18.0639	181.9542	-16.4630	Gemini North	GMOS-N	GN-2017A-Q-82
04514248-3210438	4874664052759778304	72.9270	-32.1788	233.9209	-38.2219	Gemini South	GMOS-S	GS-2017B-Q-84
04520803-2837181	4879979504285453184	73.0335	-28.6218	229.5477	-37.3718	Gemini South	GMOS-S	GS-2016B-Q-81
04522717-3451392	4873001625538322688	73.1133	-34.8609	237.3246	-38.5330	Gemini South	GMOS-S	GS-2015B-Q-71
04525913-4008568	4816836269489019904	73.2464	-40.1491	244.0793	-39.0621	Gemini South	GMOS-S	GS-2017B-Q-84
04542625-4241431	4811990171989821824	73.6094	-42.6953	247.3725	-38.9630	SOAR	Goodman	SO-2019B-013
04562421-3124177	4874779806424378496	74.1009	-31.4049	233.2135	-37.0897	Gemini South	GMOS-S	GS-2017B-Q-84
04563790-5602511	4776246457719437440	74.1579	-56.0476	264.4353	-38.0939	Gemini South	GMOS-S	GS-2016B-Q-81
04582722-4611154	4810231400062085504	74.6134	-46.1876	251.8735	-38.3626	Gemini South	GMOS-S	GS-2015B-Q-71
04583735-0449416	3212422747548345216	74.6556	-4.8282	203.8847	-27.2262	Gemini South	GMOS-S	GS-2017B-Q-84
05000638+0109473	3228880619846899712	75.0266	1.1631	198.2944	-23.9657	Gemini North	GMOS-N	GN-2017A-Q-82
05011881+0803047	3290174403068832640	75.3284	8.0513	192.1425	-20.0878	Gemini North	GMOS-N	GN-2015B-Q-86
05015088-4139079	4813429157832439168	75.4621	-41.6522	246.1685	-37.5210	Gemini South	GMOS-S	GS-2015B-Q-71
05015244+6745243	483790308838071424	75.4678	67.7565	143.3439	15.4893	Gemini North	GMOS-N	GN-2017A-Q-82
05021896-5152056	4783532062283301120	75.5790	-51.8682	259.0683	-37.6296	Gemini South	GMOS-S	GS-2017A-Q-86
05022161-4603414	4810297405118590592	75.5903	-46.0606	251.7315	-37.6828	Gemini South	GMOS-S	GS-2016B-Q-81

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
05024868+0053487	3228646389509963008	75.7028	0.8969	198.9190	-23.5172	Gemini North	GMOS-N	GN-2017A-Q-82
05025851-3909387	4814331680783356800	75.7438	-39.1608	243.0822	-37.0478	Gemini South	GMOS-S	GS-2015B-Q-71
05042173-6614399	4662031938654411008	76.0907	-66.2443	276.7597	-35.3683	Gemini South	GMOS-S	GS-2015B-Q-71
05043110+0151252	3229000397895064960	76.1296	1.8570	198.2535	-22.6635	Gemini North	GMOS-N	GN-2015B-Q-86
05065541-1056146	3181964218172190464	76.7309	-10.9374	211.0934	-28.1215	Gemini South	GMOS-S	GS-2015B-Q-71
05070417-0543063	3211326195154437760	76.7674	-5.7184	205.8593	-25.7801	Gemini South	GMOS-S	GS-2016B-Q-81
05071155+3428162	184903053675527552	76.7981	34.4712	170.8444	-3.6845	Gemini North	GMOS-N	GN-2015B-Q-86
05071933+0950093	3290839985560775552	76.8306	9.8359	191.4076	-17.8734	Gemini North	GMOS-N	GN-2016B-Q-77
05071949+2233222	3415364831369329024	76.8312	22.5562	180.5544	-10.7051	Gemini North	GMOS-N	GN-2017A-Q-82
05085713+0345040	3238657198066863616	77.2381	3.7511	197.1095	-20.7441	Gemini North	GMOS-N	GN-2015B-Q-86
05090948+0758512	3242001298259483776	77.2895	7.9808	193.3107	-18.4876	SOAR	Goodman	SO-2019B-013
05104812-0827001	3206923024747054080	77.7005	-8.4501	209.0363	-26.1843	Gemini South	GMOS-S	GS-2016B-Q-81
05115864-0512205	3211775654892063360	77.9944	-5.2057	205.9788	-24.4598	Gemini South	GMOS-S	GS-2016B-Q-81
05120490+0354513	3235687077858885248	78.0204	3.9143	197.3867	-19.9902	SOAR	Goodman	SO-2019B-013
05124167-4059465	4818944995352554496	78.1736	-40.9962	245.6219	-35.4271	Gemini South	GMOS-S	GS-2017A-Q-86
05130026-2540113	2956447060393795200	78.2511	-25.6698	227.5934	-32.1105	Gemini South	GMOS-S	GS-2017A-Q-86
05134078-0629405	3208349473581491968	78.4200	-6.4946	207.4520	-24.6725	SOAR	Goodman	SO-2019B-013
05144882+7604501	503757371280728448	78.7034	76.0806	136.5107	20.7923	Gemini North	GMOS-N	GN-2017A-Q-82
05145383+3147370	180592968094361472	78.7243	31.7936	173.9649	-3.9603	Gemini North	GMOS-N	GN-2015B-Q-86
05160558-1418474	2985144932353707264	79.0233	-14.3132	215.6108	-27.4664	Gemini South	GMOS-S	GS-2016B-Q-81
05161882-0759103	3207022255670687488	79.0785	-7.9862	209.2422	-24.7559	Gemini South	GMOS-S	GS-2016B-Q-81
05163919-0740502	3207049193707252992	79.1633	-7.6807	208.9819	-24.5451	Gemini South	GMOS-S	GS-2017A-Q-86
05165318-1711429	2982252980551829760	79.2216	-17.1953	218.7030	-28.4048	Gemini South	GMOS-S	GS-2015B-Q-71
05170982+0306456	3235326060087791232	79.2910	3.1127	198.8030	-19.3036	SOAR	Goodman	SO-2019B-013
05171185+7649087	551880864924665088	79.2995	76.8191	135.8943	21.2757	Gemini North	GMOS-N	GN-2015B-Q-86
05172978-4253358	4800721449115828352	79.3741	-42.8933	248.0539	-34.7642	SOAR	Goodman	SO-2019B-013
05175177-1441274	2985070199923468416	79.4657	-14.6910	216.1923	-27.2233	Gemini South	GMOS-S	GS-2016B-Q-81
05180022-2418191	2958140484397025792	79.5010	-24.3053	226.4763	-30.6153	Gemini South	GMOS-S	GS-2017B-Q-84
05181193+1750335	3395305135071832448	79.5497	17.8427	185.9829	-11.2749	Gemini North	GMOS-N	GN-2016B-Q-77
05181299-0356513	3213469349475577472	79.5542	-3.9476	205.5501	-22.4988	Gemini South	GMOS-S	GS-2017B-Q-84
05183018-4217511	4806766701483968640	79.6258	-42.2976	247.3613	-34.5101	Gemini South	GMOS-S	GS-2016B-Q-81
05183839-0208303	3214278143356960256	79.6600	-2.1417	203.8853	-21.5549	Gemini South	GMOS-S	GS-2017A-Q-86
05191853-0625013	3207648530621533056	79.8273	-6.4170	208.0685	-23.3898	Gemini South	GMOS-S	GS-2016B-Q-81
05202360-2522274	2957773415014463872	80.0984	-25.3742	227.8508	-30.4312	Gemini South	GMOS-S	GS-2017A-Q-86
05204433-0757598	3207154098284136064	80.1847	-7.9666	209.7540	-23.7644	Gemini South	GMOS-S	GS-2017A-Q-86
05211432-1032144	3014044878233010304	80.3097	-10.5374	212.3543	-24.7672	Gemini South	GMOS-S	GS-2016B-Q-81
05221674+1850154	3401393307050179968	80.5698	18.8376	185.6805	-9.9188	Gemini North	GMOS-N	GN-2017B-Q-79
05224909-0008545	3221372600399707520	80.7045	-0.1485	202.5518	-19.6824	Gemini South	GMOS-S	GS-2016B-Q-81
05232882+6904581	485426657021670784	80.8700	69.0828	143.2871	17.8761	Gemini North	GMOS-N	GN-2015B-Q-86
05234159+0001547	3221399469715891712	80.9233	0.0319	202.4966	-19.4037	Gemini North	GMOS-N	GN-2017B-Q-79
05234178+0140465	3222180191690519296	80.9241	1.6796	200.9753	-18.5999	Gemini North	GMOS-N	GN-2015B-Q-86
05240221+0037377	3221857420604615040	81.0092	0.6272	201.9894	-19.0399	Gemini North	GMOS-N	GN-2015B-Q-86

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
05240835-0847159	3014887683958579840	81.0348	-8.7878	210.9616	-23.3688	Gemini South	GMOS-S	GS-2016B-Q-81
05244855+3052198	3447044445721668096	81.2023	30.8722	175.9326	-2.7477	Gemini North	GMOS-N	GN-2015B-Q-86
05250902-4636237	4798948177378743680	81.2876	-46.6066	252.6916	-33.7895	Gemini South	GMOS-S	GS-2017B-Q-84
05251415-6236322	4757456177662951296	81.3090	-62.6090	271.9680	-33.7285	Gemini South	GMOS-S	GS-2017A-Q-86
05254247-2935153	2906535455902590464	81.4270	-29.5876	232.9269	-30.5269	Gemini South	GMOS-S	GS-2016B-Q-81
05255980-1225415	2985857656406840832	81.4992	-12.4282	214.7801	-24.5005	Gemini South	GMOS-S	GS-2016B-Q-81
05261364-0409463	3210609210495286016	81.5569	-4.1629	206.7521	-20.8287	Gemini South	GMOS-S	GS-2017A-Q-86
05261736+0054216	3221894563481860352	81.5723	0.9060	202.0210	-18.4124	Gemini North	GMOS-N	GN-2017A-Q-82
05263189+5101299	261986133108337024	81.6329	51.0250	159.3153	8.7322	Gemini North	GMOS-N	GN-2015B-Q-86
05270704+0208344	3222306291931030912	81.7793	2.1429	200.9922	-17.6277	Gemini North	GMOS-N	GN-2017B-Q-79
05271660-1148112	3009915249997569024	81.8192	-11.8031	214.2984	-23.9566	Gemini South	GMOS-S	GS-2016B-Q-81
05272500-3754396	4821159308691479424	81.8542	-37.9110	242.5006	-32.1318	Gemini South	GMOS-S	GS-2016B-Q-81
05284287-0020406	3220938052789255552	82.1786	-0.3447	203.4841	-18.4844	Gemini South	GMOS-S	GS-2017B-Q-84
05284445+0105281	3221936173125954432	82.1852	1.0912	202.1637	-17.7867	Gemini North	GMOS-N	GN-2015B-Q-86
05291238-3538496	4822053555242274688	82.3016	-35.6471	239.9843	-31.3125	Gemini South	GMOS-S	GS-2015B-Q-71
05293906-0037377	3220726675974365184	82.4128	-0.6272	203.8637	-18.4138	Gemini South	GMOS-S	GS-2017A-Q-86
05310644+1002437	3338225775622947584	82.7768	10.0454	194.4331	-12.7900	Gemini North	GMOS-N	GN-2015B-Q-86
05310938-0734569	3016409408052028416	82.7891	-7.5825	210.6147	-21.2796	Gemini South	GMOS-S	GS-2015B-Q-71
05311096+0119175	3221955960038003968	82.7957	1.3215	202.2626	-17.1412	Gemini North	GMOS-N	GN-2017B-Q-79
05313358-5942455	4759644931651720064	82.8899	-59.7127	268.4427	-33.1640	Gemini South	GMOS-S	GS-2016B-Q-81
05314665-7729338	4623987049577991808	82.9445	-77.4927	289.2315	-30.7181	Gemini South	GMOS-S	GS-2016B-Q-81
05315984-0724275	3016418655117200896	82.9994	-7.4076	210.5453	-21.0153	Gemini South	GMOS-S	GS-2017A-Q-86
05322358+0426172	3236515250632113536	83.0982	4.4381	199.5872	-15.3503	Gemini North	GMOS-N	GN-2017B-Q-79
05323333+5054220	215399069525282304	83.1389	50.9061	159.9311	9.4692	Gemini North	GMOS-N	GN-2017B-Q-79
05323416-3555512	4821789049679265536	83.1424	-35.9309	240.4841	-30.7108	Gemini South	GMOS-S	GS-2017A-Q-86
05330330+3425560	3449578029750593408	83.2638	34.4322	173.9258	0.6668	Gemini North	GMOS-N	GN-2015B-Q-86
05331754-0208154	3216941882074480000	83.3231	-2.1376	205.7195	-18.3256	Gemini South	GMOS-S	GS-2017A-Q-86
05332244-5030257	4793470921547465856	83.3435	-50.5072	257.4735	-32.7499	Gemini South	GMOS-S	GS-2017A-Q-86
05333204-2332171	2963722876730308224	83.3835	-23.5381	226.9655	-27.0099	Gemini South	GMOS-S	GS-2017A-Q-86
05341283-0120379	3217572555072525056	83.5534	-1.3438	205.0964	-17.7494	Gemini South	GMOS-S	GS-2017A-Q-86
05343131+0352284	3224421859677408384	83.6305	3.8746	200.3668	-15.1669	SOAR	Goodman	SO-2019B-013
05344241-0015449	3220804015449200384	83.6767	-0.2625	204.1593	-17.1288	Gemini South	GMOS-S	GS-2016B-Q-81
05355964-3116059	2902351985957543552	83.9985	-31.2683	235.4870	-28.8550	Gemini South	GMOS-S	GS-2017A-Q-86
05363390+0511260	3332736468116552192	84.1413	5.1905	199.4435	-14.0747	Gemini North	GMOS-N	GN-2017B-Q-79
05365678-4350228	4802513236454812160	84.2366	-43.8397	249.7362	-31.3877	Gemini South	GMOS-S	GS-2016B-Q-81
05365967+0411503	3224519505758364160	84.2487	4.1973	200.3896	-14.4712	Gemini North	GMOS-N	GN-2017B-Q-79
05370169-5105089	4793302318311314176	84.2571	-51.0858	258.2088	-32.2174	Gemini South	GMOS-S	GS-2017A-Q-86
05374341+5648268	268483082894179072	84.4309	56.8074	155.1656	13.1534	Gemini North	GMOS-N	GN-2017B-Q-79
05382360+7011135	485911644728122624	84.5983	70.1871	142.9033	19.5401	Gemini North	GMOS-N	GN-2015B-Q-86
05384334-5147228	4793246488033004160	84.6806	-51.7897	259.0611	-32.0078	Gemini South	GMOS-S	GS-2017B-Q-84
05391044-2345290	2963434353708776320	84.7938	-23.7580	227.6847	-25.8688	Gemini South	GMOS-S	GS-2015B-Q-71
05404660-1040257	3010342513344338688	85.1942	-10.6738	214.6975	-20.4784	Gemini South	GMOS-S	GS-2016B-Q-81

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
05415000+1525054	3347851759405013248	85.4583	15.4182	191.1244	-7.7790	Gemini North	GMOS-N	GN-2017B-Q-79
05423307-5913398	4759918400809516416	85.6378	-59.2277	267.8427	-31.7758	Gemini South	GMOS-S	GS-2015B-Q-71
05431543+7808008	552468274714043392	85.8144	78.1336	135.2750	23.1160	Gemini North	GMOS-N	GN-2017B-Q-79
05434309+5012096	214379311147693312	85.9294	50.2024	161.4693	10.6292	Gemini North	GMOS-N	GN-2017B-Q-79
05434572-2151551	2964356642107544192	85.9406	-21.8653	226.1349	-24.2165	Gemini South	GMOS-S	GS-2016B-Q-81
05434805-2538412	2914965720791328896	85.9502	-25.6448	230.0485	-25.5124	Gemini South	GMOS-S	GS-2016B-Q-81
05440311-6050523	4758589400489342080	86.0130	-60.8479	269.7472	-31.5921	Gemini South	GMOS-S	GS-2017B-Q-84
05440932-3820149	4808589176366959360	86.0388	-38.3375	243.7871	-29.0027	Gemini South	GMOS-S	GS-2016B-Q-81
05450050-2105418	2965923995930380160	86.2522	-21.0950	225.4636	-23.6681	Gemini South	GMOS-S	GS-2017B-Q-84
05455248-2556383	2914192523598690048	86.4687	-25.9440	230.5319	-25.1710	Gemini South	GMOS-S	GS-2017A-Q-86
05463023+4210063	192794656646602880	86.6261	42.1685	168.7357	6.9903	Gemini North	GMOS-N	GN-2016B-Q-77
05463758-4103031	4804867874965676032	86.6566	-41.0509	246.9352	-29.1263	Gemini South	GMOS-S	GS-2017B-Q-84
05464200-1802448	2967658131925635968	86.6750	-18.0458	222.5568	-22.1554	Gemini South	GMOS-S	GS-2015B-Q-71
05472677-5432402	4767980226222674944	86.8615	-54.5445	262.3966	-30.9113	Gemini South	GMOS-S	GS-2015B-Q-71
05483017-5835567	4765250138851402112	87.1258	-58.5991	267.1268	-30.9937	Gemini South	GMOS-S	GS-2017B-Q-84
05483336-2434285	2915518908282121472	87.1391	-24.5746	229.3396	-24.1375	Gemini South	GMOS-S	GS-2017A-Q-86
05483820+3148424	3445140602679798400	87.1592	31.8118	177.8769	2.0461	Gemini North	GMOS-N	GN-2017A-Q-82
05505657-2008418	2966088402979538944	87.7357	-20.1450	225.0635	-22.0266	SOAR	Goodman	SO-2019B-013
05511133-0653111	3018944989240573056	87.7973	-6.8864	212.2787	-16.5160	Gemini South	GMOS-S	GS-2015B-Q-71
05521578-3953184	4805034691496015104	88.0658	-39.8885	245.9123	-27.8259	Gemini South	GMOS-S	GS-2015B-Q-71
05530383-2007355	2966268035692065280	88.2660	-20.1265	225.2470	-21.5584	Gemini South	GMOS-S	GS-2016B-Q-81
05531036-4113596	4804147870945271168	88.2932	-41.2332	247.4387	-27.9616	Gemini South	GMOS-S	GS-2017B-Q-84
05542509+1632212	3349664785359713280	88.6046	16.5392	191.6993	-4.6044	Gemini North	GMOS-N	GN-2017B-Q-79
05544693-8301197	4620849386990258560	88.6953	-83.0222	295.2200	-28.6242	Gemini South	GMOS-S	GS-2017A-Q-86
05545543+5131242	214916074682985856	88.7310	51.5234	161.1596	12.8150	Gemini North	GMOS-N	GN-2017B-Q-79
05583688-2438574	2914576528036091136	89.6537	-24.6493	230.2853	-22.0221	Gemini South	GMOS-S	GS-2016B-Q-81
05583844-3434436	2889188186073231104	89.6602	-34.5786	240.5493	-25.2208	Gemini South	GMOS-S	GS-2017A-Q-86
05584204+5040146	211594935389482240	89.6752	50.6708	162.2163	12.9475	Gemini North	GMOS-N	GN-2017B-Q-79
05592533-7744016	4647752959052853632	89.8556	-77.7338	289.2116	-29.2171	Gemini South	GMOS-S	GS-2017A-Q-86
05594737-2708140	2911019229961694208	89.9474	-27.1372	232.9060	-22.6416	Gemini South	GMOS-S	GS-2017B-Q-84
06000654-3034592	2891276807192892800	90.0272	-30.5831	236.4693	-23.7137	Gemini South	GMOS-S	GS-2016B-Q-81
06000928+6830331	1105490157831460352	90.0387	68.5092	145.3668	20.6054	Gemini North	GMOS-N	GN-2017B-Q-79
06010912-2251504	2916542798424334208	90.2880	-22.8640	228.7237	-20.8340	Gemini South	GMOS-S	GS-2015B-Q-71
06013941-3304567	2889974641827298048	90.4142	-33.0824	239.1800	-24.1799	Gemini South	GMOS-S	GS-2016B-Q-81
06023445-3332108	2889528175684527104	90.6436	-33.5363	239.7178	-24.1348	Gemini South	GMOS-S	GS-2015B-Q-71
06032005-7531388	5261685578730080000	90.8336	-75.5275	286.6708	-29.1998	Gemini South	GMOS-S	GS-2015B-Q-71
06032024-2059364	2917926946123381248	90.8343	-20.9935	227.0786	-19.6622	Gemini South	GMOS-S	GS-2017B-Q-84
06035878-3445341	2886205760783047808	90.9950	-34.7594	241.0923	-24.2234	Gemini South	GMOS-S	GS-2016B-Q-81
06040505-3922438	2882964602365617408	91.0211	-39.3788	245.9875	-25.4947	Gemini South	GMOS-S	GS-2016B-Q-81
06043058-3232288	2889972447101620480	91.1275	-32.5414	238.8196	-23.4427	Gemini South	GMOS-S	GS-2015B-Q-71
06050821-3625551	2885764135065967488	91.2843	-36.4319	242.9240	-24.4862	Gemini South	GMOS-S	GS-2015B-Q-71
06050851+6114505	1005911306711125632	91.2854	61.2468	152.6900	18.2929	Gemini North	GMOS-N	GN-2017B-Q-79

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
06050978+6654472	1105001321832556800	91.2907	66.9131	147.1377	20.4553	Gemini North	GMOS-N	GN-2017B-Q-79
06052881-4438188	5567973273001201152	91.3701	-44.6386	251.7353	-26.5211	Gemini South	GMOS-S	GS-2016B-Q-81
06055284-3537284	2885916589224697088	91.4702	-35.6246	242.1241	-24.1078	Gemini South	GMOS-S	GS-2015B-Q-71
06055999-6907423	5279730523050938624	91.5001	-69.1284	279.3342	-29.2431	Gemini South	GMOS-S	GS-2015B-Q-71
06063114-1605358	2991490626275600640	91.6298	-16.0933	222.6494	-17.0333	Gemini South	GMOS-S	GS-2017A-Q-86
06063142-5032308	5549982410912756992	91.6309	-50.5420	258.2688	-27.5289	Gemini South	GMOS-S	GS-2017B-Q-84
06074714-3724498	2884863016567274240	91.9464	-37.4139	244.1231	-24.2594	Gemini South	GMOS-S	GS-2015B-Q-71
06085789-3536279	2885882774945629824	92.2412	-35.6078	242.3099	-23.5043	Gemini South	GMOS-S	GS-2015B-Q-71
06090353-7122260	5278332292157596160	92.2647	-71.3739	281.9023	-28.9708	Gemini South	GMOS-S	GS-2015B-Q-71
06120579-3152561	2895882146005313152	93.0242	-31.8822	238.7029	-21.7113	Gemini South	GMOS-S	GS-2016B-Q-81
06134289-6937017	5279560687166096896	93.4288	-69.6171	279.9015	-28.5694	Gemini South	GMOS-S	GS-2015B-Q-71
06135706-3555284	2885428298685730816	93.4878	-35.9246	242.9726	-22.6371	Gemini South	GMOS-S	GS-2017B-Q-84
06155680-7459448	5261728773219036800	93.9867	-74.9958	286.0229	-28.4230	Gemini South	GMOS-S	GS-2016B-Q-81
06171171-7328560	5265153816361777920	94.2987	-73.4822	284.3015	-28.3484	Gemini South	GMOS-S	GS-2015B-Q-71
06181310-0348135	3116844057174980864	94.5546	-3.8038	212.5446	-9.1209	Gemini South	GMOS-S	GS-2017A-Q-86
06183086-2506582	2912205186393737472	94.6287	-25.1161	232.5069	-17.9935	Gemini South	GMOS-S	GS-2016B-Q-81
06192867-8743048	5189368469885240832	94.8704	-87.7181	300.3858	-27.4224	Gemini South	GMOS-S	GS-2015B-Q-71
06194462-2030436	2938430256702303360	94.9360	-20.5121	228.1863	-15.9434	Gemini South	GMOS-S	GS-2016B-Q-81
06200929-5719169	5495322423720756352	95.0387	-57.3214	266.1551	-26.6915	Gemini South	GMOS-S	GS-2015B-Q-71
06220380-2155289	2937664962250734592	95.5158	-21.9247	229.7580	-16.0091	Gemini South	GMOS-S	GS-2016B-Q-81
06234993-5946248	5482612241102802304	95.9580	-59.7735	268.9484	-26.6044	Gemini South	GMOS-S	GS-2017B-Q-84
06244840+7752154	1140661709439350528	96.2016	77.8709	136.2556	25.0951	Gemini North	GMOS-N	GN-2017B-Q-79
06250234-4659051	5553993768631973120	96.2598	-46.9848	255.1554	-23.7773	Gemini South	GMOS-S	GS-2015B-Q-71
06290787-6709523	5283390938997970176	97.2828	-67.1645	277.2450	-26.9884	Gemini South	GMOS-S	GS-2016B-Q-81
06325088+6530326	1103660291306745856	98.2120	65.5091	149.5288	22.6477	Gemini North	GMOS-N	GN-2017B-Q-79
06325555-4214034	5569242345641089408	98.2315	-42.2343	250.6607	-21.0795	Gemini South	GMOS-S	GS-2016B-Q-81
06332771-3519240	5581669477032806912	98.3655	-35.3234	243.7609	-18.6957	Gemini South	GMOS-S	GS-2015B-Q-71
06345221-4425441	5556592090703647744	98.7176	-44.4289	253.0188	-21.4140	Gemini South	GMOS-S	GS-2016B-Q-81
06363111-2255559	2924798167948814208	99.1297	-22.9322	232.0998	-13.3554	Gemini South	GMOS-S	GS-2017B-Q-84
06382886-8309319	5206227036859558272	99.6204	-83.1589	295.2404	-27.3050	Gemini South	GMOS-S	GS-2017B-Q-84
06393860-3406395	5583340111934906112	99.9109	-34.1110	243.0510	-17.0746	Gemini South	GMOS-S	GS-2017B-Q-84
06421665-5008385	5503130777344639488	100.5694	-50.1440	259.2936	-21.8903	Gemini South	GMOS-S	GS-2017A-Q-86
06425079+7014409	1112486380380023040	100.7116	70.2447	144.7575	24.7003	Gemini North	GMOS-N	GN-2017B-Q-79
06451421-3217294	5583930313459131008	101.3092	-32.2915	241.7563	-15.3048	Gemini South	GMOS-S	GS-2017B-Q-84
06451920-0857165	3098535676741247744	101.3300	-8.9546	220.2324	-5.4191	Gemini South	GMOS-S	GS-2016B-Q-81
06460710-4155202	5563430395897276032	101.5296	-41.9223	251.1981	-18.6643	Gemini South	GMOS-S	GS-2016B-Q-81
06464646-4440364	5556009212103193472	101.6936	-44.6768	253.9847	-19.4803	Gemini South	GMOS-S	GS-2016B-Q-81
06484021+1625173	3358091992230790656	102.1676	16.4215	197.9385	6.8112	Gemini North	GMOS-N	GN-2017A-Q-82
06484979-2428341	2922058189267952384	102.2075	-24.4762	234.7324	-11.4281	Gemini South	GMOS-S	GS-2016B-Q-81
06510773+0943416	3158574272957723776	102.7822	9.7282	204.2223	4.3510	Gemini North	GMOS-N	GN-2017B-Q-79
06523842+1513163	3354530639711957376	103.1601	15.2212	199.4487	7.1358	Gemini North	GMOS-N	GN-2015B-Q-86
06525096+2440261	3381304160163213056	103.2123	24.6739	190.8320	11.2641	Gemini North	GMOS-N	GN-2017B-Q-79

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
06525451+1446083	3354323111187785216	103.2271	14.7690	199.8862	6.9938	Gemini North	GMOS-N	GN-2017B-Q-79
06533075+1226225	3351515542604966912	103.3782	12.4396	202.0523	6.0900	Gemini North	GMOS-N	GN-2017B-Q-79
06533083+6836050	1103319172123035136	103.3785	68.6014	146.7338	25.3085	Gemini North	GMOS-N	GN-2017B-Q-79
06554143-4313578	5562195201959849984	103.9227	-43.2328	253.1404	-17.4757	Gemini South	GMOS-S	GS-2017A-Q-86
06560363+2846500	887636359876055424	104.0151	28.7806	187.3011	13.6074	Gemini North	GMOS-N	GN-2017B-Q-79
06570150-6751413	5280814817608368000	104.2562	-67.8614	278.4813	-24.4684	SOAR	Goodman	SO-2019B-013
06571276-5526234	5485259315346971136	104.3032	-55.4398	265.4469	-21.2721	Gemini South	GMOS-S	GS-2017A-Q-86
06580901-8334199	5194228654877524096	104.5372	-83.5722	295.7325	-26.7565	Gemini South	GMOS-S	GS-2017B-Q-84
06585640+0850479	3157301205994883840	104.7350	8.8466	205.8823	5.6762	Gemini North	GMOS-N	GN-2015B-Q-86
06593152-5853177	5480647173305937280	104.8814	-58.8883	269.0946	-21.9731	Gemini South	GMOS-S	GS-2016B-Q-81
06593924+2056439	3366133201801121536	104.9135	20.9455	194.9522	11.1160	Gemini North	GMOS-N	GN-2017B-Q-79
07001955-3637535	5578346443656712960	105.0815	-36.6316	247.1443	-14.1452	Gemini South	GMOS-S	GS-2015A-Q-77
07003916+2701430	884148846432586240	105.1632	27.0286	189.3721	13.8324	Gemini North	GMOS-N	GN-2016B-Q-77
07004613+2933178	887873162895952768	105.1922	29.5550	186.9889	14.8582	Gemini North	GMOS-N	GN-2017B-Q-79
07012363+1813452	3364377384810729088	105.3485	18.2293	197.6317	10.3319	Gemini North	GMOS-N	GN-2017B-Q-79
07013933-5842103	5480743208774977024	105.4139	-58.7029	268.9887	-21.6555	Gemini South	GMOS-S	GS-2017B-Q-84
07023862+0659243	3153768440772179584	105.6609	6.9901	207.9632	5.6624	Gemini North	GMOS-N	GN-2016B-Q-77
07030318+4006286	947804380629842816	105.7633	40.1080	176.8966	19.1621	Gemini North	GMOS-N	GN-2016A-Q-75
07033238+2225136	3368024709696717824	105.8849	22.4204	193.9687	12.5525	Gemini North	GMOS-N	GN-2016A-Q-75
07035093+1955164	3365212055873231104	105.9622	19.9212	196.3221	11.5753	Gemini North	GMOS-N	GN-2016A-Q-75
07041471+1901123	3364898931280232448	106.0613	19.0201	197.1957	11.2800	Gemini North	GMOS-N	GN-2017B-Q-79
07041738-1908113	2932674107172462592	106.0725	-19.1365	231.4478	-5.8748	Gemini South	GMOS-S	GS-2015A-Q-77
07041880+0246488	3115642187883221632	106.0783	2.7802	211.9211	4.1306	Gemini North	GMOS-N	GN-2017A-Q-82
07041957+2340564	3368538353422137344	106.0816	23.6824	192.8648	13.2360	Gemini North	GMOS-N	GN-2017B-Q-79
07054097+1733350	3361464812868710144	106.4207	17.5597	198.6911	10.9689	Gemini North	GMOS-N	GN-2016A-Q-75
07070364+2657035	883254423785454080	106.7652	26.9510	190.0311	15.1118	Gemini North	GMOS-N	GN-2017B-Q-79
07073503+2356476	3368586663216905984	106.8960	23.9465	192.9275	14.0241	Gemini North	GMOS-N	GN-2017B-Q-79
07081426-3557115	5566430245872289408	107.0592	-35.9533	247.1761	-12.4129	Gemini South	GMOS-S	GS-2017A-Q-86
07083867-4621128	5510018805377253632	107.1612	-46.3536	257.0594	-16.4919	Gemini South	GMOS-S	GS-2016A-Q-76
07085997-5424564	5491233099459990528	107.2498	-54.4157	264.9876	-19.3409	Gemini South	GMOS-S	GS-2017B-Q-84
07090577+2142312	3367308652748446464	107.2741	21.7087	195.1780	13.4330	Gemini North	GMOS-N	GN-2017B-Q-79
07093534+2210136	3367373077257509120	107.3973	22.1705	194.7925	13.7259	Gemini North	GMOS-N	GN-2015A-Q-76
07093868-0419118	3107527762016884096	107.4112	-4.3199	218.8548	2.0676	Gemini South	GMOS-S	GS-2016A-Q-76
07101117-2219008	2928210850185413120	107.5466	-22.3169	234.9271	-6.0775	Gemini South	GMOS-S	GS-2017B-Q-84
07102845+1245411	3161108024483929600	107.6186	12.7614	203.6013	9.9470	Gemini North	GMOS-N	GN-2017B-Q-79
07103372-0244311	3108335765621350656	107.6405	-2.7420	217.5577	2.9968	Gemini South	GMOS-S	GS-2016A-Q-76
07104970+0826444	3154409902728232320	107.7071	8.4457	207.5648	8.1268	Gemini North	GMOS-N	GN-2017B-Q-79
07110190-6301262	5285981079149837184	107.7579	-63.0239	273.7955	-21.8324	Gemini South	GMOS-S	GS-2015A-Q-77
07113988+8541053	1150345383223043712	107.9161	85.6848	127.7758	27.4254	Gemini North	GMOS-N	GN-2018B-Q-316
07121704+1402591	3167279926849037568	108.0710	14.0498	202.6140	10.9014	Gemini North	GMOS-N	GN-2017B-Q-79
07122036+4221574	949584631690298368	108.0848	42.3660	175.2141	21.5404	Gemini North	GMOS-N	GN-2017B-Q-79
07122182-8422429	5193956796331371264	108.0909	-84.3786	296.6754	-26.4773	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
07122917+2231366	3367505087372386944	108.1215	22.5268	194.7363	14.4826	Gemini North	GMOS-N	GN-2015A-Q-76
07122989-0700106	3052191643892060672	108.1245	-7.0030	221.5639	1.4592	Gemini South	GMOS-S	GS-2015A-Q-77
07123398-4814049	5508686643961355648	108.1416	-48.2347	259.1382	-16.5908	Gemini South	GMOS-S	GS-2015A-Q-77
07123461+3153463	890055835212749696	108.1442	31.8962	185.7255	18.0911	Gemini North	GMOS-N	GN-2017B-Q-79
07130783-7052481	5267185649427578496	108.2827	-70.8801	282.0560	-23.7833	Gemini South	GMOS-S	GS-2018A-Q-406
07150401+2714015	883489998448405504	108.7668	27.2336	190.4757	16.8646	Gemini North	GMOS-N	GN-2016A-Q-75
07151852-5252051	5491893184393739776	108.8272	-52.8681	263.8087	-17.9192	Gemini South	GMOS-S	GS-2015A-Q-77
07152806-4111161	5561098267315218048	108.8670	-41.1879	252.6611	-13.3078	Gemini South	GMOS-S	GS-2017B-Q-84
07160059+5240188	986603229693072128	109.0025	52.6719	164.5718	24.8559	Gemini North	GMOS-N	GN-2017B-Q-79
07170438+2402438	869715076257527808	109.2682	24.0455	193.7248	16.0524	Gemini North	GMOS-N	GN-2015A-Q-76
07174600+1259027	3166159975473025280	109.4417	12.9841	204.1796	11.6457	Gemini North	GMOS-N	GN-2017B-Q-79
07174929-0924096	3048017378051885056	109.4554	-9.4027	224.3017	1.5105	Gemini South	GMOS-S	GS-2015A-Q-77
07175677-2704124	5616006675420673664	109.4866	-27.0701	239.9935	-6.6643	Gemini South	GMOS-S	GS-2017B-Q-84
07181152+4406479	973981901357263104	109.5480	44.1133	173.7417	23.0680	Gemini North	GMOS-N	GN-2017B-Q-79
07194881-5748087	5485933071160480768	109.9534	-57.8025	268.9050	-19.1048	Gemini South	GMOS-S	GS-2017A-Q-86
07203081-6240451	5291814602512817024	110.1284	-62.6792	273.8083	-20.6976	Gemini South	GMOS-S	GS-2017B-Q-84
07204786-7623393	5214066868299703040	110.1996	-76.3942	288.0617	-24.6101	Gemini South	GMOS-S	GS-2017B-Q-84
07213106+2755248	872994571549210240	110.3795	27.9236	190.3645	18.4481	Gemini North	GMOS-N	GN-2015A-Q-76
07220367+0253575	3136142616543571456	110.5153	2.8993	213.8380	8.1334	Gemini North	GMOS-N	GN-2017B-Q-79
07224055+3618087	897278351003895424	110.6689	36.3025	182.0778	21.5567	Gemini North	GMOS-N	GN-2017B-Q-79
07224582-2959375	5605629995767584000	110.6909	-29.9937	243.0996	-7.0607	Gemini South	GMOS-S	GS-2017B-Q-84
07233679+1412112	3166723543901552000	110.9033	14.2031	203.6713	13.4508	Gemini North	GMOS-N	GN-2017B-Q-79
07234039-2959296	5605624738733670912	110.9183	-29.9916	243.1888	-6.8849	Gemini South	GMOS-S	GS-2015A-Q-77
07234262+1516310	3167138884419576064	110.9276	15.2753	202.6806	13.9236	Gemini North	GMOS-N	GN-2017B-Q-79
07242428+5822232	989627947524580864	111.1013	58.3731	158.5828	27.0754	Gemini North	GMOS-N	GN-2016A-Q-75
07254156+4948144	977051149410569344	111.4232	49.8041	168.0318	25.7110	Gemini North	GMOS-N	GN-2017B-Q-79
07254769-3453506	5590014289255060480	111.4487	-34.8974	247.7976	-8.7344	Gemini South	GMOS-S	GS-2015A-Q-77
07260648-4637077	5510340717467331456	111.5270	-46.6188	258.5592	-13.8446	Gemini South	GMOS-S	GS-2017B-Q-84
07270798+4352580	973215713552094848	111.7833	43.8827	174.4533	24.5562	Gemini North	GMOS-N	GN-2017B-Q-79
07273288+3819555	899749713837935872	111.8870	38.3321	180.3104	23.1011	Gemini North	GMOS-N	GN-2017B-Q-79
07280531+1637140	3169561074176213376	112.0221	16.6206	201.8672	15.4397	Gemini North	GMOS-N	GN-2015A-Q-76
07281913-8333342	5194416392190823040	112.0795	-83.5595	295.8603	-25.9197	Gemini South	GMOS-S	GS-2015A-Q-77
07282428-3705347	5586496638018390784	112.1012	-37.0930	250.0197	-9.2647	Gemini South	GMOS-S	GS-2015A-Q-77
07284694+8149439	1142689281896442880	112.1955	81.8289	132.0850	28.1561	Gemini North	GMOS-N	GN-2016A-Q-75
07295359-6910360	5267963068571164928	112.4733	-69.1767	280.7334	-21.9231	Gemini South	GMOS-S	GS-2016B-Q-81
07304303+4111480	900640730573598976	112.6792	41.1967	177.4928	24.4905	Gemini North	GMOS-N	GN-2017B-Q-79
07310602-2742595	5611975414810555264	112.7751	-27.7165	241.9349	-4.3820	Gemini South	GMOS-S	GS-2015A-Q-77
07311836-6659351	5269135942537559680	112.8265	-66.9931	278.5684	-21.0702	Gemini South	GMOS-S	GS-2016A-Q-76
07314455+5553592	988736827710024704	112.9356	55.8997	161.5012	27.7023	Gemini North	GMOS-N	GN-2017B-Q-79
07314605-3324217	5591704921522389888	112.9419	-33.4060	247.0400	-6.9490	Gemini South	GMOS-S	GS-2017B-Q-84
07321280+1523588	3168444240942341248	113.0534	15.3997	203.4469	15.8394	Gemini North	GMOS-N	GN-2017B-Q-79
07321479-1300309	3033439198205025024	113.0616	-13.0086	229.1556	2.9205	Gemini South	GMOS-S	GS-2017B-Q-84

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
07325519+3655267	898637038134266752	113.2300	36.9241	182.1172	23.7040	Gemini North	GMOS-N	GN-2018B-Q-316
07331792+0531033	3141404295078246400	113.3247	5.5176	212.7485	11.8149	Gemini North	GMOS-N	GN-2017B-Q-79
07333190+5310203	983909666723291392	113.3830	53.1723	164.5882	27.5434	Gemini North	GMOS-N	GN-2015A-Q-76
07334024+4425362	973487288627865728	113.4177	44.4268	174.1888	25.8264	Gemini North	GMOS-N	GN-2018B-Q-316
07345045+0736494	3142272222070528384	113.7103	7.6138	211.0000	13.0898	Gemini North	GMOS-N	GN-2017B-Q-79
07350484-0004500	3086417752932494848	113.7702	-0.0805	218.0276	9.6607	Gemini South	GMOS-S	GS-2015A-Q-77
07351435+2626331	872041539782121984	113.8098	26.4425	193.0013	20.7580	Gemini North	GMOS-N	GN-2017B-Q-79
07351699-4815064	5506540186806281728	113.8208	-48.2518	260.7631	-13.1510	Gemini South	GMOS-S	GS-2017B-Q-84
07353628+1938556	672591122640513280	113.9012	19.6488	199.7192	18.2916	Gemini North	GMOS-N	GN-2017A-Q-82
07354551+0455028	3138308624388237568	113.9396	4.9174	213.5776	12.0928	Gemini North	GMOS-N	GN-2017B-Q-79
07354757-5036104	5493916801186715648	113.9483	-50.6029	262.9752	-14.1067	Gemini South	GMOS-S	GS-2017B-Q-84
07363720+1126504	3162146822454143360	114.1550	11.4474	207.6357	15.1502	Gemini North	GMOS-N	GN-2017B-Q-79
07363729+4034177	924375132168707200	114.1554	40.5716	178.4811	25.4033	Gemini North	GMOS-N	GN-2016A-Q-75
07364486+4508331	926998601271917184	114.1869	45.1425	173.5510	26.5212	Gemini North	GMOS-N	GN-2015A-Q-76
07365679+5950385	1086214756921278976	114.2367	59.8440	157.1438	28.8466	Gemini North	GMOS-N	GN-2017B-Q-79
07374300-5630568	5487737374038584704	114.4292	-56.5158	268.6454	-16.3694	Gemini South	GMOS-S	GS-2015A-Q-77
07380041-2129196	5619082589253324544	114.5018	-21.4888	237.2399	0.0045	Gemini South	GMOS-S	GS-2015A-Q-77
07384500-0331557	3057721981216813568	114.6875	-3.5322	221.5534	8.8580	Gemini South	GMOS-S	GS-2016A-Q-76
07393047-1530275	3029020260970100736	114.8770	-15.5076	232.1987	3.2472	Gemini South	GMOS-S	GS-2015A-Q-92
07395820+1311537	3164103029736387200	114.9925	13.1983	206.3460	16.6323	Gemini North	GMOS-N	GN-2017B-Q-79
07400327-0740587	3042138568557247360	115.0136	-7.6830	225.3951	7.1655	Gemini South	GMOS-S	GS-2016A-Q-76
07403555+5352561	985231550281510144	115.1481	53.8822	163.9671	28.6849	Gemini North	GMOS-N	GN-2015B-Q-86
07404482+1243437	3163865500863822592	115.1868	12.7288	206.8736	16.6071	Gemini North	GMOS-N	GN-2015A-Q-76
07410359-6714551	5274884459907753344	115.2649	-67.2487	279.1875	-20.2772	Gemini South	GMOS-S	GS-2018A-Q-406
07410851-5943543	5292748779377543168	115.2855	-59.7318	271.8977	-17.2952	Gemini South	GMOS-S	GS-2018A-Q-406
07412077-2900201	5599777230966529024	115.3366	-29.0056	244.1593	-3.0347	Gemini South	GMOS-S	GS-2018A-Q-406
07414196-0741080	3042148704679838336	115.4249	-7.6855	225.5951	7.5214	Gemini South	GMOS-S	GS-2017A-Q-86
07435834+1341353	3164056506649463040	115.9931	13.6931	206.2997	17.7232	Gemini North	GMOS-N	GN-2017B-Q-79
07440179+0312226	3136905750633082624	116.0075	3.2063	216.0981	13.1576	Gemini North	GMOS-N	GN-2017B-Q-79
07441635+5322545	984534979601381120	116.0681	53.3818	164.6139	29.1622	Gemini North	GMOS-N	GN-2018B-Q-316
07443402+0742591	3145150125036773760	116.1418	7.7165	212.0001	15.2985	Gemini North	GMOS-N	GN-2017A-Q-82
07443970-4425135	5532006972050819584	116.1654	-44.4204	258.0480	-9.9540	Gemini South	GMOS-S	GS-2016A-Q-76
07445367-4653249	5530553525058225152	116.2236	-46.8903	260.2803	-11.0874	Gemini South	GMOS-S	GS-2016A-Q-76
07450351+0956148	3148979071201226880	116.2646	9.9375	209.9769	16.3752	Gemini North	GMOS-N	GN-2015A-Q-76
07450424-7231255	5263155252116820608	116.2677	-72.5238	284.5807	-21.8983	Gemini South	GMOS-S	GS-2015A-Q-77
07451488+1000107	3149076244837702784	116.3120	10.0030	209.9362	16.4455	Gemini North	GMOS-N	GN-2017A-Q-82
07452477+2524147	868026810512553856	116.3533	25.4041	194.9145	22.5323	Gemini North	GMOS-N	GN-2017B-Q-79
07455398+0103107	3086833647505226752	116.4749	1.0530	218.2800	12.5828	Gemini North	GMOS-N	GN-2017B-Q-79
07461952+3903325	920303430156012160	116.5814	39.0590	180.6352	26.8241	Gemini North	GMOS-N	GN-2016A-Q-75
07464924-4313456	5532490211705643904	116.7052	-43.2294	257.1783	-9.0405	Gemini South	GMOS-S	GS-2015A-Q-77
07480156-4924040	5518045893097566976	117.0065	-49.4012	262.7910	-11.8099	Gemini South	GMOS-S	GS-2016A-Q-76
07485521+5623334	1082018707015827584	117.2300	56.3926	161.2458	30.1341	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
07494258+6938239	1098142705736502528	117.4274	69.6400	145.9012	30.3565	Gemini North	GMOS-N	GN-2017B-Q-79
07503801+1119098	3150778696857500928	117.6584	11.3194	209.2816	18.2043	Gemini North	GMOS-N	GN-2017B-Q-79
07504673+0558247	3143849888115383040	117.6947	5.9735	214.3319	15.9077	Gemini North	GMOS-N	GN-2018B-Q-316
07533988+4933361	934072756004889216	118.4162	49.5600	169.1901	30.1236	Gemini North	GMOS-N	GN-2016A-Q-75
07545950+6639532	1095319709633456000	118.7480	66.6648	149.3240	31.0106	Gemini North	GMOS-N	GN-2017B-Q-79
07551255+1944081	670305998176686720	118.8023	19.7356	201.5230	22.5865	Gemini North	GMOS-N	GN-2017B-Q-79
07552395+3520063	906645575890268416	118.8498	35.3350	185.2016	27.6279	Gemini North	GMOS-N	GN-2017B-Q-79
07555507+8148305	1148451100783017984	118.9795	81.8084	131.9458	29.1135	Gemini North	GMOS-N	GN-2018B-Q-316
07575895+4035155	922132399029177088	119.4957	40.5876	179.5255	29.3514	Gemini North	GMOS-N	GN-2017B-Q-79
07580568+3504110	906456700407472512	119.5237	35.0697	185.6521	28.0912	Gemini North	GMOS-N	GN-2017B-Q-79
07584532+4211214	922545677962459904	119.6888	42.1893	177.7535	29.8114	Gemini North	GMOS-N	GN-2016A-Q-75
07590580+4748300	933111228791082240	119.7744	47.8083	171.3419	30.7804	Gemini North	GMOS-N	GN-2015A-Q-76
08005431+3135329	878032675562889728	120.2263	31.5925	189.6207	27.7205	Gemini North	GMOS-N	GN-2017B-Q-79
08005634+1633254	667243544758539136	120.2347	16.5571	205.2682	22.6249	Gemini North	GMOS-N	GN-2016A-Q-75
08011676+6358383	1094412028423846144	120.3199	63.9774	152.4317	31.7970	Gemini North	GMOS-N	GN-2016A-Q-75
08021251-2821568	5597762543400727680	120.5522	-28.3658	245.9495	1.2240	Gemini South	GMOS-S	GS-2015A-Q-92
08022771-4804247	5517895294366243968	120.6155	-48.0736	262.8088	-9.0851	Gemini South	GMOS-S	GS-2017B-Q-84
08024574-4803573	5517708957205335168	120.6905	-48.0660	262.8283	-9.0381	Gemini South	GMOS-S	GS-2015A-Q-77
08042788-6440110	5275614368128678528	121.1162	-64.6697	277.7856	-17.0292	Gemini South	GMOS-S	GS-2015A-Q-77
08045600+3310059	905235555306335104	121.2333	33.1683	188.1595	28.9664	Gemini North	GMOS-N	GN-2017B-Q-79
08050775+2604105	681971846610387712	121.2823	26.0696	195.8629	26.9384	Gemini North	GMOS-N	GN-2015A-Q-76
08052894-6502132	5275590007074529152	121.3706	-65.0370	278.1781	-17.1057	Gemini South	GMOS-S	GS-2016A-Q-76
08053267-6119242	5289953163686735232	121.3862	-61.3234	274.7820	-15.3285	Gemini South	GMOS-S	GS-2016A-Q-76
08074491-5257227	5512588600272046848	121.9371	-52.9563	267.4987	-10.8778	Gemini South	GMOS-S	GS-2015A-Q-77
08080715+5915114	1083546379639153664	122.0298	59.2532	157.9831	32.7722	Gemini North	GMOS-N	GN-2017A-Q-82
08085268-6128294	5289751265864064128	122.2195	-61.4748	275.1210	-15.0546	Gemini South	GMOS-S	GS-2018A-Q-406
08090031+2850085	876519232166668800	122.2513	28.8357	193.1858	28.6058	Gemini North	GMOS-N	GN-2015A-Q-76
08092156+2521288	681134774663802496	122.3399	25.3580	196.9655	27.6123	Gemini North	GMOS-N	GN-2017B-Q-79
08100860-7523572	5213699150380190720	122.5359	-75.3993	288.1566	-21.4518	Gemini South	GMOS-S	GS-2018A-Q-406
08102898+4020333	909546843477733504	122.6207	40.3426	180.3376	31.6367	Gemini North	GMOS-N	GN-2017B-Q-79
08111719+4456352	929054103899434752	122.8216	44.9431	174.9999	32.4911	Gemini North	GMOS-N	GN-2017B-Q-79
08125962-7004235	5270057397705227904	123.2484	-70.0732	283.2036	-18.8450	Gemini South	GMOS-S	GS-2018A-Q-406
08130864+3925564	909255575975553920	123.2860	39.4323	181.4997	31.9739	Gemini North	GMOS-N	GN-2016A-Q-75
08135674+5113349	935284722760688384	123.4864	51.2264	167.5840	33.4934	Gemini North	GMOS-N	GN-2016A-Q-75
08140229+3940332	909264917528317952	123.5095	39.6758	181.2536	32.1873	Gemini North	GMOS-N	GN-2016A-Q-75
08152203+3827587	908032124475412224	123.8418	38.4663	182.7148	32.2198	Gemini North	GMOS-N	GN-2016A-Q-75
08153796+6531162	1092014470303207552	123.9081	65.5211	150.4552	33.1920	Gemini North	GMOS-N	GN-2016A-Q-75
08162824-4611151	5519745360123251200	124.1177	-46.1875	262.4789	-6.0646	Gemini South	GMOS-S	GS-2015A-Q-77
08173327-2728418	5693425380770623616	124.3887	-27.4783	247.0484	4.5518	Gemini South	GMOS-S	GS-2016B-Q-81
08182058+5923087	1083715257753356800	124.5858	59.3858	157.7594	34.0697	Gemini North	GMOS-N	GN-2016A-Q-75
08202927-2458369	5696053561463700992	125.1220	-24.9769	245.3322	6.4939	Gemini South	GMOS-S	GS-2016A-Q-76
08204593-7457097	5219742375524510720	125.1915	-74.9527	288.0622	-20.6436	Gemini South	GMOS-S	GS-2016B-Q-81

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
08225420+6259266	1090362836337748864	125.7258	62.9907	153.3590	34.2848	Gemini North	GMOS-N	GN-2017A-Q-82
08242044-1026147	5751499802540091776	126.0852	-10.4375	233.4416	15.2217	Gemini South	GMOS-S	GS-2018A-Q-406
08244155-6859542	5270209581283002240	126.1732	-68.9984	282.7524	-17.4250	Gemini South	GMOS-S	GS-2015A-Q-77
08255445+7726501	1137625614237615232	126.4769	77.4473	136.4389	31.5053	Gemini North	GMOS-N	GN-2017B-Q-79
08282505-2119200	5706111756390126080	127.1044	-21.3222	243.3171	10.0581	Gemini South	GMOS-S	GS-2018A-Q-406
08284828-2858468	5644860540592289536	127.2012	-28.9797	249.7024	5.7380	Gemini South	GMOS-S	GS-2016A-Q-76
08295142-2428117	5695713503130206848	127.4643	-24.4699	246.1281	8.5338	Gemini South	GMOS-S	GS-2018A-Q-406
08295611-1354544	5722897519371974272	127.4838	-13.9151	237.2339	14.4946	Gemini South	GMOS-S	GS-2016A-Q-76
08302532-6949046	5221888519143226240	127.6055	-69.8180	283.7602	-17.4250	Gemini South	GMOS-S	GS-2016A-Q-76
08312114-2126535	5703185367534835584	127.8381	-21.4482	243.8175	10.5482	Gemini South	GMOS-S	GS-2015A-Q-92
08315869+6949533	1121420775645432320	127.9945	69.8315	145.0334	33.9426	Gemini North	GMOS-N	GN-2017B-Q-79
08322899-2137273	5703121870736546304	128.1208	-21.6242	244.1175	10.6629	Gemini South	GMOS-S	GS-2016A-Q-76
08331960-1350331	5722870096004958208	128.3317	-13.8425	237.6408	15.2212	Gemini South	GMOS-S	GS-2015A-Q-77
08343393+7518493	1125113279289236096	128.6414	75.3137	138.6603	32.6310	Gemini North	GMOS-N	GN-2015A-Q-76
08350584+4839306	1026860572337001088	128.7744	48.6585	170.8466	36.8176	Gemini North	GMOS-N	GN-2016A-Q-75
08355055-2033433	5703594458875614848	128.9607	-20.5621	243.6914	11.9144	Gemini South	GMOS-S	GS-2015B-Q-71
08355851-0839549	5753641990492978816	128.9938	-8.6653	233.4781	18.5931	Gemini South	GMOS-S	GS-2018A-Q-406
08360617-0450149	3065446698936865152	129.0257	-4.8375	230.0487	20.6470	Gemini South	GMOS-S	GS-2018A-Q-406
08364858+7742308	1137832945195154560	129.2025	77.7086	135.9295	31.9788	Gemini North	GMOS-N	GN-2017B-Q-79
08370406+7830159	1138150772775117312	129.2669	78.5044	135.0446	31.7168	Gemini North	GMOS-N	GN-2017B-Q-79
08400533-4428341	5522379549464634752	130.0222	-44.4761	263.5025	-1.6938	Gemini South	GMOS-S	GS-2015A-Q-92
08401347+4216411	913518485634602112	130.0562	42.2781	178.8937	37.4241	Gemini North	GMOS-N	GN-2016A-Q-75
08413166-0629117	5754432023955507712	130.3819	-6.4866	232.3087	20.9230	Gemini South	GMOS-S	GS-2018A-Q-406
08422928-0849161	5750516216373911680	130.6220	-8.8211	234.5406	19.8604	Gemini South	GMOS-S	GS-2016B-Q-81
08430958+6038165	1041278571391227392	130.7900	60.6379	155.7817	36.9997	Gemini North	GMOS-N	GN-2017B-Q-79
08433739+6717034	1093203940022382720	130.9057	67.2842	147.7152	35.6056	Gemini North	GMOS-N	GN-2017B-Q-79
08434698-1812314	5705872333433002880	130.9457	-18.2087	242.8384	14.8053	Gemini South	GMOS-S	GS-2015A-Q-92
08441851+0346257	581348807340055424	131.0771	3.7738	223.0284	26.7377	Gemini North	GMOS-N	GN-2016A-Q-75
08443695-7241450	...	131.1534	-72.6950	286.9414	-18.0509	Gemini South	GMOS-S	GS-2015B-Q-71
08444676-2845157	5642803457417047552	131.1949	-28.7544	251.6167	8.6834	Gemini South	GMOS-S	GS-2018A-Q-406
08445228-7438443	5216771215930182912	131.2179	-74.6457	288.6533	-19.1337	Gemini South	GMOS-S	GS-2017A-Q-86
08454426-2141380	5702387126388268160	131.4345	-21.6939	246.0171	13.1196	Gemini South	GMOS-S	GS-2015A-Q-77
08460663-0426024	5761503056249343360	131.5277	-4.4340	231.0898	22.9812	Gemini South	GMOS-S	GS-2015A-Q-77
08472137+5830138	1040480914362286592	131.8391	58.5038	158.3172	37.8852	Gemini North	GMOS-N	GN-2016A-Q-75
08473213+0548147	582973163970364416	131.8839	5.8041	221.4376	28.4051	Gemini North	GMOS-N	GN-2015A-Q-76
08490347-6323398	5297691668265349120	132.2645	-63.3944	279.4021	-12.2399	Gemini South	GMOS-S	GS-2015A-Q-77
08490462-6853235	5223489373715006976	132.2694	-68.8899	283.9265	-15.5442	Gemini South	GMOS-S	GS-2016A-Q-76
08494240-3836003	5621994959343177856	132.4267	-38.6001	260.0160	3.3671	Gemini South	GMOS-S	GS-2015A-Q-92
08501165+4242063	913730107265419136	132.5486	42.7018	178.5035	39.2854	Gemini North	GMOS-N	GN-2017A-Q-82
08511780-2736072	5648942030830217344	132.8242	-27.6020	251.5915	10.5246	Gemini South	GMOS-S	GS-2016A-Q-76
08514213+1250467	608133907024045952	132.9253	12.8463	214.6189	32.4186	Gemini North	GMOS-N	GN-2015A-Q-76
08515469+5402598	1029765967389921408	132.9779	54.0499	163.8369	39.1471	Gemini North	GMOS-N	GN-2017B-Q-79

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
08523133-0804579	5750792365590211328	133.1306	-8.0827	235.3475	22.3377	Gemini South	GMOS-S	GS-2016A-Q-76
08524186+6924318	1118241228535948672	133.1744	69.4088	144.9128	35.7919	Gemini North	GMOS-N	GN-2016A-Q-75
08525722+6423125	1044196095432573952	133.2385	64.3868	150.8830	37.2824	Gemini North	GMOS-N	GN-2017B-Q-79
08533398+1644112	611494731817426560	133.3915	16.7364	210.5401	34.3529	Gemini North	GMOS-N	GN-2017B-Q-79
08543649-4744205	5328756032854574592	133.6520	-47.7391	267.6232	-1.7802	Gemini South	GMOS-S	GS-2015A-Q-92
08544986-1159089	5736694942894396672	133.7077	-11.9858	239.1484	20.5921	Gemini South	GMOS-S	GS-2017A-Q-86
08554225-6955045	5222449162695490432	133.9261	-69.9179	285.1430	-15.6979	Gemini South	GMOS-S	GS-2016A-Q-76
08565578-7603590	5215675105917524608	134.2325	-76.0664	290.3478	-19.3293	Gemini South	GMOS-S	GS-2018A-Q-406
08571123+0040261	576743880843785088	134.2968	0.6739	227.8532	28.0031	Gemini North	GMOS-N	GN-2015A-Q-76
08571600-6556117	5296305287178801280	134.3166	-65.9366	282.0070	-13.1191	Gemini South	GMOS-S	GS-2015A-Q-77
09002061-2220490	5654811563195280512	135.0859	-22.3470	248.6832	15.4017	Gemini South	GMOS-S	GS-2015A-Q-77
09002174-3342353	5627698985144472448	135.0906	-33.7098	257.6274	8.1513	Gemini South	GMOS-S	GS-2018B-Q-315
09012132-7055369	5222157448519411584	135.3389	-70.9269	286.2717	-15.9489	Gemini South	GMOS-S	GS-2016A-Q-76
09023125-0810363	5755853112670730112	135.6302	-8.1768	236.9506	24.3290	Gemini South	GMOS-S	GS-2016A-Q-76
09030506-2047415	5656156368995636608	135.7711	-20.7949	247.8360	16.8689	Gemini South	GMOS-S	GS-2015A-Q-77
09030861-0427115	5759379998080221824	135.7859	-4.4532	233.6317	26.5448	Gemini South	GMOS-S	GS-2016A-Q-76
09040262-0523492	5759068836288541696	136.0109	-5.3970	234.6475	26.2090	Gemini South	GMOS-S	GS-2015A-Q-77
09043992+0733498	584226980887837824	136.1664	7.5638	221.9216	32.9892	Gemini North	GMOS-N	GN-2015A-Q-76
09050894-2050426	5656143484093610368	136.2873	-20.8452	248.1932	17.2134	Gemini South	GMOS-S	GS-2018B-Q-315
09065688+5836407	1036942720302654080	136.7370	58.6113	157.5092	40.3638	Gemini North	GMOS-N	GN-2017B-Q-79
09073395-0340147	5759902820154063744	136.8914	-3.6708	233.5797	27.8960	Gemini South	GMOS-S	GS-2017A-Q-86
09090697-0324211	5759936900718820864	137.2791	-3.4059	233.5711	28.3650	Gemini South	GMOS-S	GS-2018B-Q-315
09093944-2006527	5679552155368264704	137.4144	-20.1147	248.2990	18.4933	Gemini South	GMOS-S	GS-2018B-Q-315
09102690+6033156	1039441978952648064	137.6121	60.5544	154.8979	40.2767	Gemini North	GMOS-N	GN-2015A-Q-76
09103058+6419220	1043675820274039040	137.6275	64.3228	150.2386	39.1139	Gemini North	GMOS-N	GN-2017A-Q-82
09104309-1444185	5731383034718059520	137.6796	-14.7385	243.9942	22.0526	Gemini South	GMOS-S	GS-2016A-Q-76
09110582-2014595	5679493090978018304	137.7742	-20.2498	248.6357	18.6680	Gemini South	GMOS-S	GS-2015A-Q-77
09110758+0217287	3843821216808928512	137.7816	2.2914	228.3045	31.8237	Gemini North	GMOS-N	GN-2017B-Q-79
09114163+1017524	591768294919763072	137.9235	10.2978	219.9151	35.7725	Gemini North	GMOS-N	GN-2016A-Q-75
09122631-0037340	3842047846288227712	138.1097	-0.6262	231.4101	30.5733	Gemini South	GMOS-S	GS-2015A-Q-77
09123863+6218061	1040178033268005504	138.1610	62.3017	152.6153	40.0001	Gemini North	GMOS-N	GN-2016A-Q-75
09131573-1716172	5682721055254568576	138.3156	-17.2714	246.5333	20.9531	Gemini South	GMOS-S	GS-2015A-Q-92
09152673-0018170	3842238950857112064	138.8614	-0.3047	231.5644	31.3802	Gemini South	GMOS-S	GS-2018B-Q-315
09155397+1212314	593696288558989312	138.9749	12.2087	218.3204	37.5270	Gemini North	GMOS-N	GN-2015A-Q-76
09161100+0140496	3845027557158758144	139.0458	1.6805	229.6951	32.5890	Gemini North	GMOS-N	GN-2015A-Q-76
09164357-0512382	5758526021141799552	139.1816	-5.2106	236.4872	28.9189	Gemini South	GMOS-S	GS-2018B-Q-315
09171078-6147067	5298830659236242688	139.2949	-61.7852	280.2988	-8.7373	Gemini South	GMOS-S	GS-2015A-Q-77
09172903-1021252	5742681753643854464	139.3710	-10.3570	241.2975	26.0352	Gemini South	GMOS-S	GS-2016A-Q-76
09180855-0852126	5743138252832504576	139.5357	-8.8702	240.0791	27.0594	Gemini South	GMOS-S	GS-2016A-Q-76
09184848+0713360	586821454667385344	139.7020	7.2267	224.2767	35.9284	Gemini North	GMOS-N	GN-2017B-Q-79
09185431+1211488	593613206711676800	139.7263	12.1969	218.7275	38.1876	Gemini North	GMOS-N	GN-2017B-Q-79
09201726-0554052	5746372328846303360	140.0718	-5.9015	237.7186	29.2423	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
09205040+1820344	632540488180370176	140.2100	18.3429	211.6036	40.9963	Gemini North	GMOS-N	GN-2017A-Q-82
09214717+6219538	1040038326571016704	140.4466	62.3316	152.1073	40.9897	Gemini North	GMOS-N	GN-2015A-Q-76
09220002+0957599	592248296169483264	140.5001	9.9667	221.6959	37.8965	Gemini North	GMOS-N	GN-2017B-Q-79
09221426+5824580	1038229698662764160	140.5594	58.4161	157.0300	42.3370	Gemini North	GMOS-N	GN-2016A-Q-75
09221563-7701423	5203340376458000128	140.5651	-77.0284	292.1196	-18.7939	Gemini South	GMOS-S	GS-2015A-Q-77
09222115-4317486	5424356193758211456	140.5881	-43.2968	267.6455	4.7992	Gemini South	GMOS-S	GS-2015A-Q-77
09230164+5819465	1026218874158310272	140.7567	58.3296	157.0987	42.4620	Gemini North	GMOS-N	GN-2016A-Q-75
09270301+4204494	814375831397158144	141.7626	42.0804	179.3212	46.0891	Gemini North	GMOS-N	GN-2017B-Q-79
09270844+1544438	630694854833847168	141.7852	15.7455	215.5501	41.4484	Gemini North	GMOS-N	GN-2015A-Q-76
09282183-3930462	5429709754532474880	142.0910	-39.5129	265.7826	8.2868	Gemini South	GMOS-S	GS-2015A-Q-92
09285510+1543302	619055111209080832	142.2296	15.7250	215.7947	41.8355	Gemini North	GMOS-N	GN-2016A-Q-75
09290292+3549540	798505274404072832	142.2622	35.8317	188.3680	46.4648	Gemini North	GMOS-N	GN-2016A-Q-75
09291542-1847544	5678392273680123520	142.3143	-18.7984	250.4430	22.8584	Gemini South	GMOS-S	GS-2015A-Q-92
09301030+0243320	3844656021013252992	142.5430	2.7255	230.8474	36.1100	Gemini North	GMOS-N	GN-2017B-Q-79
09304755-3932097	5426696130598924416	142.6981	-39.5361	266.1398	8.5948	Gemini South	GMOS-S	GS-2015A-Q-77
09304964+8016095	1144494542550685824	142.7068	80.2693	131.8410	33.0798	Gemini North	GMOS-N	GN-2016A-Q-75
09313142+7905121	1132002131953311232	142.8811	79.0867	132.9784	33.7859	Gemini North	GMOS-N	GN-2016A-Q-75
09315651+2335316	644413044801144064	142.9855	23.5921	205.8636	45.0829	Gemini North	GMOS-N	GN-2017B-Q-79
09325648+1823093	633101995024420480	143.2354	18.3860	212.8995	43.7036	Gemini North	GMOS-N	GN-2016A-Q-75
09341289-8700397	5189077198087438208	143.5536	-87.0110	300.4285	-25.1572	Gemini South	GMOS-S	GS-2016A-Q-76
09343649+1036027	589530578303563648	143.6521	10.6007	222.7735	40.9507	Gemini North	GMOS-N	GN-2017B-Q-79
09344298+0353574	3851012229012923264	143.6791	3.8993	230.3489	37.6928	Gemini North	GMOS-N	GN-2017B-Q-79
09345116+1214576	614001725703023488	143.7132	12.2493	220.8387	41.7328	Gemini North	GMOS-N	GN-2015A-Q-76
09372216+0925058	588581463545772928	144.3423	9.4182	224.5784	41.0103	Gemini North	GMOS-N	GN-2015A-Q-76
09375748+2559307	645906319030740864	144.4895	25.9918	202.9912	46.9925	Gemini North	GMOS-N	GN-2017B-Q-79
09382460+4205266	813812915803635712	144.6025	42.0907	179.0886	48.1907	Gemini North	GMOS-N	GN-2016A-Q-75
09383941+1227080	614063912534411136	144.6643	12.4522	221.1328	42.6584	Gemini North	GMOS-N	GN-2016A-Q-75
09384661+7833575	1131785214629423488	144.6944	78.5660	133.2409	34.3753	Gemini North	GMOS-N	GN-2017A-Q-82
09391251+3445386	797731523158972416	144.8021	34.7607	190.1182	48.4759	Gemini North	GMOS-N	GN-2016A-Q-75
09403979+2921557	696431047286005632	145.1658	29.3655	198.2439	48.2172	Gemini North	GMOS-N	GN-2018B-Q-316
09455700+2135550	640001361769756032	146.4876	21.5987	209.9483	47.6295	Gemini North	GMOS-N	GN-2017B-Q-79
09472261+3354159	794484841418902912	146.8443	33.9045	191.5662	50.1146	Gemini North	GMOS-N	GN-2017B-Q-79
09473545-2638039	5658256784099611008	146.8977	-26.6344	259.6492	20.4016	Gemini South	GMOS-S	GS-2018B-Q-315
09474496-7045530	5242578991517893120	146.9373	-70.7648	288.8687	-13.0950	Gemini South	GMOS-S	GS-2015A-Q-77
09485248+1837465	627201117981349888	147.2187	18.6296	214.4364	47.3325	Gemini North	GMOS-N	GN-2017A-Q-82
09485477-3811139	5432401118477539456	147.2282	-38.1872	267.8787	11.9616	Gemini South	GMOS-S	GS-2015A-Q-77
09491888+3201060	793274382192849664	147.3287	32.0184	194.5535	50.3877	Gemini North	GMOS-N	GN-2017B-Q-79
09501353-7925417	5202088268933375232	147.5564	-79.4282	294.9807	-19.4751	Gemini South	GMOS-S	GS-2016A-Q-76
09502173+3716070	799953365577763712	147.5905	37.2686	186.2961	50.7669	Gemini North	GMOS-N	GN-2017B-Q-79
09502215-6930058	5243501550494934400	147.5923	-69.5016	288.1987	-11.9915	Gemini South	GMOS-S	GS-2017A-Q-86
09513068-3848520	5432133353036744448	147.8779	-38.8145	268.6890	11.8118	Gemini South	GMOS-S	GS-2018B-Q-315
09513210+3330203	793674978087183616	147.8837	33.5056	192.2640	50.9574	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
09532759-2717101	5657259969431486336	148.3650	-27.2861	261.1500	20.8035	Gemini South	GMOS-S	GS-2018B-Q-315
09535089+3329284	794978139884594560	148.4621	33.4912	192.3250	51.4383	Gemini North	GMOS-N	GN-2017B-Q-79
09541478+2735210	647086477259746176	148.5615	27.5891	201.6990	50.8711	Gemini North	GMOS-N	GN-2017B-Q-79
09545564+6756128	1069803755602231168	148.7319	67.9368	143.3686	41.4950	Gemini North	GMOS-N	GN-2016A-Q-75
09553934+4319179	808168980883073792	148.9140	43.3216	176.5658	51.1720	Gemini North	GMOS-N	GN-2016A-Q-75
09555639-2403072	5660496214405409152	148.9849	-24.0520	259.2573	23.5787	Gemini South	GMOS-S	GS-2015A-Q-77
09560894-5924282	5257538328273646336	149.0373	-59.4079	282.2515	-3.7686	Gemini South	GMOS-S	GS-2015A-Q-92
09574469+1400136	615228711960558464	149.4362	14.0038	221.9602	47.5210	Gemini North	GMOS-N	GN-2017B-Q-79
09580008-4318227	5418253457547492096	149.5004	-43.3063	272.5354	9.0977	Gemini South	GMOS-S	GS-2015A-Q-92
09580109+2933087	743582087319504640	149.5045	29.5524	198.7839	51.9836	Gemini North	GMOS-N	GN-2017B-Q-79
09593411+3708378	796772718958610304	149.8921	37.1438	186.3866	52.6032	Gemini North	GMOS-N	GN-2017B-Q-79
09594843+7246373	1125921282896321792	149.9518	72.7770	137.9536	38.9433	Gemini North	GMOS-N	GN-2017B-Q-79
10003325-2537597	5658983939239396352	150.1386	-25.6333	261.2538	23.0933	Gemini South	GMOS-S	GS-2016A-Q-76
10020621-1554291	5673966327061493760	150.5259	-15.9081	254.1886	30.5128	Gemini South	GMOS-S	GS-2015A-Q-77
10030615+7054115	1071492949060164992	150.7757	70.9033	139.6443	40.3149	Gemini North	GMOS-N	GN-2018B-Q-316
10033379-2329108	5665883610926876672	150.8908	-23.4864	260.2736	25.1616	Gemini South	GMOS-S	GS-2017A-Q-86
10045623-4228179	5418445670219076224	151.2343	-42.4717	273.0402	10.5340	Gemini South	GMOS-S	GS-2015A-Q-77
10052247+3945408	803621576887555840	151.3436	39.7614	181.8813	53.5055	Gemini North	GMOS-N	GN-2018B-Q-316
10053264-1827501	5672581221584085504	151.3860	-18.4639	256.8987	29.2154	Gemini South	GMOS-S	GS-2016A-Q-76
10063882+2403476	630450488374469120	151.6618	24.0632	208.2170	52.8818	Gemini North	GMOS-N	GN-2016A-Q-75
10075999-2736413	5465659970825328896	152.0000	-27.6115	264.0179	22.6509	Gemini South	GMOS-S	GS-2016A-Q-76
10085157-3236041	5459310600414841856	152.2149	-32.6011	267.4910	18.8574	Gemini South	GMOS-S	GS-2015A-Q-92
10100365+2227088	629233049829242368	152.5152	22.4525	211.1409	53.2304	Gemini North	GMOS-N	GN-2018B-Q-316
10111521-6620282	5245373292941453952	152.8135	-66.3412	287.8072	-8.2942	Gemini South	GMOS-S	GS-2016A-Q-76
10115056-4309343	5415268253418659200	152.9607	-43.1596	274.4932	10.7280	Gemini South	GMOS-S	GS-2015A-Q-92
10115917+5502205	852773418843119616	152.9966	55.0391	157.7127	49.9202	Gemini North	GMOS-N	GN-2016A-Q-75
10121964-3221347	5459373341297312384	153.0819	-32.3597	267.9501	19.4940	Gemini South	GMOS-S	GS-2015A-Q-92
10124027-2249482	5666123373181152000	153.1678	-22.8301	261.5760	27.0178	Gemini South	GMOS-S	GS-2016B-Q-81
10124666+4624575	810408381126766592	153.1944	46.4160	170.4712	53.3811	Gemini North	GMOS-N	GN-2018B-Q-316
10143521+2324515	725459455633859840	153.6467	23.4142	210.0263	54.4867	Gemini North	GMOS-N	GN-2015A-Q-76
10151784+5551061	853205526912187264	153.8243	55.8516	156.2551	49.9446	Gemini North	GMOS-N	GN-2018B-Q-316
10152469-1057352	3767574556484311424	153.8529	-10.9598	252.8540	36.3190	Gemini South	GMOS-S	GS-2015A-Q-92
10152705+6456284	1053650967717923072	153.8627	64.9413	145.0401	44.9123	Gemini North	GMOS-N	GN-2016A-Q-75
10160573+6533551	1065697491989952896	154.0240	65.5653	144.2896	44.5806	Gemini North	GMOS-N	GN-2015A-Q-76
10171294+4654224	810350480671638784	154.3040	46.9062	169.2765	53.9459	Gemini North	GMOS-N	GN-2016A-Q-75
10193367+7257464	1077961238527864704	154.8900	72.9629	136.5230	39.9068	Gemini North	GMOS-N	GN-2018B-Q-316
10203763+7221398	1077708213414112128	155.1569	72.3611	137.0126	40.3847	Gemini North	GMOS-N	GN-2016A-Q-75
10211155+4557314	809444964126986240	155.2982	45.9588	170.4210	54.9071	Gemini North	GMOS-N	GN-2015A-Q-76
10213675+7058455	1076692848785487104	155.4031	70.9793	138.2536	41.4023	Gemini North	GMOS-N	GN-2015A-Q-76
10221281-4123416	5416543996142159488	155.5534	-41.3949	275.0838	13.2694	Gemini South	GMOS-S	GS-2016A-Q-76
10244576-7355423	5229049672736749184	156.1906	-73.9285	293.1251	-13.9184	Gemini South	GMOS-S	GS-2016A-Q-76
10250250+7723238	1128041244394048000	156.2605	77.3900	132.3043	36.9396	Gemini North	GMOS-N	GN-2018B-Q-316

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
10263327-2231158	5475397761196528896	156.6386	-22.5211	264.2064	29.2476	Gemini South	GMOS-S	GS-2017A-Q-86
10280894+4658364	833602269677094272	157.0373	46.9768	167.9996	55.6623	Gemini North	GMOS-N	GN-2016A-Q-75
10281330-2946530	5461386169127203200	157.0554	-29.7814	269.2902	23.5773	Gemini South	GMOS-S	GS-2015A-Q-77
10295444-0801026	3774466329726812672	157.4769	-8.0174	253.5791	40.9136	Gemini South	GMOS-S	GS-2017B-Q-84
10340832-7354406	5229004382300835840	158.5348	-73.9113	293.6816	-13.5586	Gemini South	GMOS-S	GS-2015A-Q-77
10350987-1416284	3750801231724757760	158.7911	-14.2746	260.0949	37.0165	Gemini South	GMOS-S	GS-2017A-Q-86
10352666+4804049	834056058741414400	158.8610	48.0680	165.3145	56.3346	Gemini North	GMOS-N	GN-2015A-Q-76
10363889-1917043	3554709655102839552	159.1621	-19.2846	264.1615	33.2513	Gemini South	GMOS-S	GS-2016A-Q-76
10371075-1056303	3760861312146553216	159.2948	-10.9418	257.8872	39.9082	Gemini South	GMOS-S	GS-2016B-Q-81
10375744+4851237	834186007272278016	159.4894	48.8566	163.7049	56.3471	Gemini North	GMOS-N	GN-2018B-Q-316
10382409-5248250	5354554767533822336	159.6004	-52.8070	283.4944	4.9701	Gemini South	GMOS-S	GS-2015A-Q-92
10383538+4953297	835062146240700160	159.6475	49.8916	161.9868	55.9400	Gemini North	GMOS-N	GN-2016A-Q-75
10385482-0518037	3776786466765131520	159.7285	-5.3010	253.2877	44.4255	Gemini South	GMOS-S	GS-2016A-Q-76
10391495+7348283	1078279478424242432	159.8124	73.8079	134.4223	40.2353	Gemini North	GMOS-N	GN-2018B-Q-316
10391566+7340387	1078266108189870592	159.8151	73.6776	134.5302	40.3363	Gemini North	GMOS-N	GN-2018B-Q-316
10394895+3459288	750368410525129728	159.9539	34.9913	189.0842	60.8826	Gemini North	GMOS-N	GN-2016A-Q-75
10420484+0246381	3857349504797962496	160.5202	2.7773	245.5305	50.6382	Gemini North	GMOS-N	GN-2016A-Q-75
10425611-6355510	5239913019452422784	160.7338	-63.9309	289.3748	-4.4948	Gemini South	GMOS-S	GS-2015A-Q-77
10430163-0230226	3802519784793984000	160.7568	-2.5063	251.5960	47.1591	Gemini South	GMOS-S	GS-2017B-Q-84
10430365-0643033	3776307354572694272	160.7652	-6.7176	255.6811	44.0638	Gemini South	GMOS-S	GS-2015A-Q-77
10432543+7515589	1126646406518426752	160.8558	75.2664	132.9580	39.2672	Gemini North	GMOS-N	GN-2018B-Q-316
10440416+7616213	1128438924005715456	161.0175	76.2726	132.1359	38.4896	Gemini North	GMOS-N	GN-2018B-Q-316
10440597-0853008	3762337131628855680	161.0249	-8.8836	257.8793	42.5804	Gemini South	GMOS-S	GS-2016B-Q-81
10453280+0345108	3857542022411847040	161.3868	3.7530	245.2688	51.9320	Gemini North	GMOS-N	GN-2017A-Q-82
10493965-1719329	3556866862556915072	162.4152	-17.3258	265.8639	36.6318	Gemini South	GMOS-S	GS-2016A-Q-76
10502726-2300446	3549234430794364160	162.6136	-23.0124	269.8055	31.9644	Gemini South	GMOS-S	GS-2017A-Q-86
10511274-0817026	3763102327298064128	162.8031	-8.2841	259.2393	44.1530	Gemini South	GMOS-S	GS-2015B-Q-71
10521859+0528265	3864195618243548032	163.0775	5.4741	244.9399	54.3325	Gemini North	GMOS-N	GN-2018B-Q-316
10530608-2253102	3549276036141218176	163.2754	-22.8862	270.3404	32.3915	Gemini South	GMOS-S	GS-2016A-Q-76
10531802-0055302	3803159838000339200	163.3251	-0.9251	252.7591	50.0745	Gemini South	GMOS-S	GS-2016A-Q-76
10540939-5233263	5359711992455305344	163.5391	-52.5573	285.5028	6.3000	Gemini South	GMOS-S	GS-2016A-Q-76
10541225+0549178	3864303022490267136	163.5511	5.8216	245.0158	54.9165	Gemini North	GMOS-N	GN-2015A-Q-76
10543311+0528128	3864140775805950208	163.6379	5.4702	245.5749	54.7515	Gemini North	GMOS-N	GN-2018A-Q-403
10554570-1654038	3556496876894238464	163.9404	-16.9010	267.0934	37.7921	Gemini South	GMOS-S	GS-2015A-Q-77
10563216-0555480	3764649748179457280	164.1340	-5.9300	258.6206	46.8171	Gemini South	GMOS-S	GS-2017A-Q-86
10570875-5207081	5359563558390131968	164.2865	-52.1189	285.7255	6.8928	Gemini South	GMOS-S	GS-2015A-Q-92
10582963+0011130	3804842056430901120	164.6235	0.1869	253.0624	51.7732	Gemini North	GMOS-N	GN-2018B-Q-316
10590836-6924479	5231719699295439488	164.7849	-69.4134	293.2955	-8.6702	Gemini South	GMOS-S	GS-2015A-Q-77
11000776+4630029	783425712959288576	165.0324	46.5008	164.0578	60.7550	Gemini North	GMOS-N	GN-2018B-Q-316
11004069-1102492	3758563126686411776	165.1696	-11.0470	264.1107	43.3211	Gemini South	GMOS-S	GS-2017A-Q-86
11010971+1310060	3967986487953405312	165.2905	13.1684	235.8825	60.6997	Gemini North	GMOS-N	GN-2017A-Q-82
11023256-0636095	3787611983373749120	165.6357	-6.6026	260.9552	47.1991	Gemini South	GMOS-S	GS-2016B-Q-81

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
11023598+0102539	3805298933576500480	165.6500	1.0483	253.3387	53.1025	Gemini North	GMOS-N	GN-2017A-Q-82
11051574-4752557	5362354531210538624	166.3156	-47.8821	285.1366	11.2873	Gemini South	GMOS-S	GS-2015A-Q-92
11051929-1329347	3564247918473953792	166.3305	-13.4930	267.2291	41.9058	Gemini South	GMOS-S	GS-2016A-Q-76
11064962-5323068	5347385401964090240	166.7068	-53.3853	287.5943	6.3425	Gemini South	GMOS-S	GS-2015A-Q-92
11065789-4643237	5386525267120422912	166.7412	-46.7233	284.9286	12.4641	Gemini South	GMOS-S	GS-2017A-Q-86
11065939-4920517	5362109546275295872	166.7474	-49.3477	286.0017	10.0599	Gemini South	GMOS-S	GS-2015A-Q-77
11090121+0754418	3818459160048340352	167.2551	7.9116	246.5690	59.0610	Gemini North	GMOS-N	GN-2016A-Q-75
11092807-0242021	3791025112280181248	167.3670	-2.7006	259.4333	51.3490	Gemini South	GMOS-S	GS-2015A-Q-92
11093391+2327348	3995259156621469440	167.3913	23.4597	216.3178	66.7243	Gemini North	GMOS-N	GN-2016A-Q-75
11112337+6943386	1074121743923049344	167.8473	69.7274	134.8909	45.0064	Gemini North	GMOS-N	GN-2017A-Q-82
11132240-0910000	3783099076553128064	168.3434	-9.1666	266.3200	46.6162	Gemini South	GMOS-S	GS-2017A-Q-86
11133490+1015249	3963264914441096320	168.3955	10.2569	244.4546	61.4419	Gemini North	GMOS-N	GN-2016A-Q-75
11144345-1133225	3566319673258222208	168.6811	-11.5563	268.5224	44.7575	Gemini South	GMOS-S	GS-2016A-Q-76
11172319-5030507	5349769001420934784	169.3467	-50.5141	288.0217	9.6149	Gemini South	GMOS-S	GS-2016A-Q-76
11213850+3100109	4023379441379492096	170.4104	31.0030	196.3934	70.0356	Gemini North	GMOS-N	GN-2015A-Q-76
11215118-4555200	5376213596097250176	170.4633	-45.9222	287.0673	14.1715	Gemini South	GMOS-S	GS-2016A-Q-76
11232110+6118098	862722319742958592	170.8381	61.3028	140.2424	52.7642	Gemini North	GMOS-N	GN-2016A-Q-75
11235327+0025363	3797935886458318336	170.9720	0.4267	261.1012	56.0175	Gemini North	GMOS-N	GN-2016A-Q-75
11242364-0642128	3785352182036872320	171.0985	-6.7036	267.8622	50.1467	Gemini South	GMOS-S	GS-2018B-Q-315
11245109-0118132	3796858154608999424	171.2129	-1.3037	263.2168	54.7493	Gemini South	GMOS-S	GS-2016A-Q-76
11245186+8132096	1133615145575572992	171.2161	81.5360	126.7292	34.9441	Gemini North	GMOS-N	GN-2018B-Q-316
11251752+4810412	789033325338645888	171.3231	48.1781	155.6929	63.1046	Gemini North	GMOS-N	GN-2017A-Q-82
11252946-0035203	3797041055791986048	171.3727	-0.5890	262.7315	55.4270	Gemini South	GMOS-S	GS-2017A-Q-86
11255206+5922341	859132616140394880	171.4670	59.3761	141.6116	54.5392	Gemini North	GMOS-N	GN-2018B-Q-316
11260849-0718091	3591618782978505472	171.5354	-7.3026	268.9167	49.8512	Gemini South	GMOS-S	GS-2016A-Q-76
11264720+2321085	3992675231281619584	171.6967	23.3523	219.4075	70.5141	Gemini North	GMOS-N	GN-2018B-Q-316
11284462+1159546	3917369061419260928	172.1859	11.9985	246.8581	65.4058	Gemini North	GMOS-N	GN-2018B-Q-316
11293922+6718355	1057741219692489856	172.4134	67.3099	134.5346	47.9342	Gemini North	GMOS-N	GN-2018B-Q-316
11320178+4540156	784645621097082624	173.0074	45.6709	158.0878	65.6618	Gemini North	GMOS-N	GN-2018B-Q-316
11322424+7217439	1075031310621259776	173.1009	72.2955	131.0878	43.5594	Gemini North	GMOS-N	GN-2018B-Q-316
11332470+1251440	3917497017084939776	173.3529	12.8622	247.0928	66.8328	Gemini North	GMOS-N	GN-2016A-Q-75
11343570+1932184	3977488952772409856	173.6488	19.5385	232.1589	70.8274	Gemini North	GMOS-N	GN-2016A-Q-75
11344124+5314269	841082728317714048	173.6718	53.2408	146.2966	60.2666	Gemini North	GMOS-N	GN-2018B-Q-316
11351928-3430096	3477077051780069632	173.8303	-34.5027	285.5691	25.7895	Gemini South	GMOS-S	GS-2017A-Q-86
11364104+3220057	4024512758694334336	174.1711	32.3348	190.6288	72.9844	Gemini North	GMOS-N	GN-2015A-Q-76
11372004+1845309	3974320228980706816	174.3335	18.7586	235.1985	71.0284	Gemini North	GMOS-N	GN-2015A-Q-76
11373800-5202251	5345681227653768064	174.4084	-52.0403	291.5579	9.1941	Gemini South	GMOS-S	GS-2015A-Q-92
11381456+1534117	3972403604119095808	174.5607	15.5699	243.4314	69.4503	Gemini North	GMOS-N	GN-2018B-Q-316
11403298+6340440	864134573709331584	175.1373	63.6789	135.5058	51.6840	Gemini North	GMOS-N	GN-2018B-Q-316
11415054+5035361	790901636102569472	175.4606	50.5934	147.6995	63.0563	Gemini North	GMOS-N	GN-2015A-Q-76
11423344+0800282	3910233647567741056	175.6394	8.0078	259.2826	64.8674	Gemini North	GMOS-N	GN-2016A-Q-75
11444533-4644384	5372404612941931392	176.1889	-46.7440	291.2111	14.6047	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
11465844+4835156	787263141676539648	176.7435	48.5877	148.8585	65.1678	Gemini North	GMOS-N	GN-2016A-Q-75
11471027+0341265	3895958344506982784	176.7927	3.6907	266.9204	61.9823	Gemini North	GMOS-N	GN-2017A-Q-82
11483814+1952557	3976143459777843968	177.1589	19.8821	236.3338	73.9015	Gemini North	GMOS-N	GN-2016A-Q-75
11492027+3132066	4021576517188258688	177.3345	31.5352	191.1803	75.7817	Gemini North	GMOS-N	GN-2018B-Q-316
11505337-8036338	5199459645869304704	177.7225	-80.6094	300.3637	-18.0411	Gemini South	GMOS-S	GS-2016A-Q-76
11515346+8151152	1133680021057772544	177.9728	81.8542	125.4783	34.9775	Gemini North	GMOS-N	GN-2016A-Q-75
11515556-4738558	5371554866553160960	177.9816	-47.6489	292.6615	14.0327	Gemini South	GMOS-S	GS-2015A-Q-77
11524486-4709547	5377584485241041408	178.1869	-47.1652	292.6840	14.5354	Gemini South	GMOS-S	GS-2017A-Q-86
11541040-5208317	5368942804889403520	178.5433	-52.1421	294.0745	9.7421	Gemini South	GMOS-S	GS-2016A-Q-76
11543955+7023508	1061694681253422336	178.6648	70.3974	129.7303	45.9741	Gemini North	GMOS-N	GN-2018B-Q-316
11545004+4749009	786606630149557248	178.7085	47.8169	147.2920	66.5459	Gemini North	GMOS-N	GN-2016A-Q-75
11564526+3145522	4026626810316850048	179.1887	31.7645	188.3762	77.2367	Gemini North	GMOS-N	GN-2018B-Q-316
11593802+2922115	4008146360612154112	179.9084	29.3699	198.7872	78.3800	Gemini North	GMOS-N	GN-2016A-Q-75
11595151-3905280	3459312659023799552	179.9647	-39.0911	292.1107	22.6945	Gemini South	GMOS-S	GS-2017A-Q-86
12001449+1641370	3925430066494830336	180.0604	16.6936	251.6743	74.2129	Gemini North	GMOS-N	GN-2018B-Q-316
12004306+2949116	4008186046109996672	180.1794	29.8199	196.3776	78.5403	Gemini North	GMOS-N	GN-2016A-Q-75
12005811-3929233	3459242084121356288	180.2422	-39.4898	292.4301	22.3505	Gemini South	GMOS-S	GS-2015A-Q-92
12022430+6255274	1582997852929561600	180.6012	62.9242	132.2401	53.3089	Gemini North	GMOS-N	GN-2016A-Q-75
12034594+3035029	4014343925404883328	180.9414	30.5842	191.7929	79.0115	Gemini North	GMOS-N	GN-2016A-Q-75
12052554-4408587	6147464275054037120	181.3565	-44.1496	294.2815	17.9479	Gemini South	GMOS-S	GS-2015A-Q-77
12055188+1735548	3925930962760630656	181.4661	17.5985	252.7511	75.8085	Gemini North	GMOS-N	GN-2018B-Q-316
12070423-5345229	6076898344653529344	181.7676	-53.7564	296.3272	8.5455	Gemini South	GMOS-S	GS-2016A-Q-76
12070444+7600223	1692730414755815552	181.7685	76.0062	126.4559	40.8171	Gemini North	GMOS-N	GN-2016A-Q-75
12074090+3519591	4029760766348866944	181.9205	35.3331	168.9372	77.5732	Gemini North	GMOS-N	GN-2016A-Q-75
12083074+3954084	1536035581002935424	182.1281	39.9023	155.0875	74.4312	Gemini North	GMOS-N	GN-2018B-Q-316
12094665+6450371	1585030811273958400	182.4444	64.8436	130.0552	51.7046	Gemini North	GMOS-N	GN-2016A-Q-75
12100140+4520564	1539687570219614080	182.5059	45.3490	144.6010	69.9970	Gemini North	GMOS-N	GN-2018B-Q-316
12104009+7032545	1684079324125218944	182.6669	70.5486	127.8158	46.1914	Gemini North	GMOS-N	GN-2015A-Q-76
12111339+2220415	4001468785978496768	182.8058	22.3449	238.4024	79.6971	Gemini North	GMOS-N	GN-2018B-Q-316
12132563-3800203	3461061226110222080	183.3568	-38.0057	294.7283	24.2595	Gemini South	GMOS-S	GS-2014A-Q-8
12143659-1517191	3569366385619378432	183.6524	-15.2887	289.9377	46.6518	Gemini South	GMOS-S	GS-2015A-Q-77
12155841-3547529	3461905891557813248	183.9934	-35.7981	294.9008	26.5200	Gemini South	GMOS-S	GS-2017A-Q-86
12161019+4524243	1538985944361745536	184.0425	45.4068	141.6600	70.4175	Gemini North	GMOS-N	GN-2016A-Q-75
12181234-3721065	6151711177372668928	184.5514	-37.3518	295.6478	25.0495	Gemini South	GMOS-S	GS-2014A-Q-8
12214951+4244520	1538031641283723008	185.4563	42.7479	142.1107	73.2601	Gemini North	GMOS-N	GN-2018B-Q-316
12221869-3853368	6150224495918526848	185.5779	-38.8936	296.7506	23.6283	Gemini South	GMOS-S	GS-2016A-Q-76
12240228-7202466	5842561802238077952	186.0095	-72.0463	300.7970	-9.2882	Gemini South	GMOS-S	GS-2015A-Q-77
12245683+7007242	1683832243246834304	186.2368	70.1234	126.2179	46.8355	Gemini North	GMOS-N	GN-2016A-Q-75
12261008+3926273	1532300402563759360	186.5421	39.4409	144.4637	76.6121	Gemini North	GMOS-N	GN-2016A-Q-75
12280652-3319179	3468446817511036160	187.0272	-33.3216	297.3445	29.2969	Gemini South	GMOS-S	GS-2017A-Q-86
12284069+1942295	3948963287525544576	187.1696	19.7082	266.6246	80.9305	Gemini North	GMOS-N	GN-2016A-Q-75
12293447-3233073	3468579201286803200	187.3937	-32.5521	297.6074	30.0936	Gemini South	GMOS-S	GS-2014A-Q-74

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
12334194+1952177	3949121587136124160	188.4247	19.8716	272.7490	81.6835	Gemini North	GMOS-N	GN-2018B-Q-316
12335935-3246361	6160173770478603520	188.4973	-32.7767	298.6990	29.9516	Gemini South	GMOS-S	GS-2016A-Q-76
12335980-2944042	3471719754389184384	188.4992	-29.7345	298.4178	32.9843	Gemini South	GMOS-S	GS-2016A-Q-76
12340964-3453438	6158168604865990016	188.5401	-34.8955	298.9259	27.8418	Gemini South	GMOS-S	GS-2015A-Q-92
12342913+4826025	1543862488889757568	188.6214	48.4340	130.6002	68.4411	Gemini North	GMOS-N	GN-2018B-Q-316
12353682+4854057	1544253571429564800	188.9034	48.9016	129.8899	68.0123	Gemini North	GMOS-N	GN-2016A-Q-75
12353793-4301524	6145744883683553408	188.9081	-43.0312	299.8638	19.7464	Gemini South	GMOS-S	GS-2015A-Q-77
12360829-7040522	5843251466600455808	189.0345	-70.6811	301.6554	-7.8473	Gemini South	GMOS-S	GS-2016A-Q-76
12363406+4334497	1540600409684268032	189.1420	43.5805	132.3259	73.2756	Gemini North	GMOS-N	GN-2016A-Q-75
12382743-3400315	6158315870705750912	189.6144	-34.0087	299.8627	28.7857	Gemini South	GMOS-S	GS-2016A-Q-76
12383506+2039384	3949279882451077888	189.6468	20.6598	277.8373	82.8971	Gemini North	GMOS-N	GN-2016A-Q-75
12392838+5038459	1568524878294905088	189.8683	50.6461	127.6678	66.3719	Gemini North	GMOS-N	GN-2015A-Q-76
12395834-3131208	6160731124090635520	189.9931	-31.5225	300.0725	31.2856	Gemini South	GMOS-S	GS-2015A-Q-77
12401578-7012252	5843372485918189440	190.0654	-70.2071	301.9784	-7.3559	Gemini South	GMOS-S	GS-2015A-Q-77
12413756-5412247	6074478212169867904	190.4065	-54.2069	301.4810	8.6375	Gemini South	GMOS-S	GS-2015A-Q-92
12432213-5955445	6056631317380990208	190.8422	-59.9290	301.9200	2.9269	Gemini South	GMOS-S	GS-2015A-Q-77
12433114-8753309	5765813554148627328	190.8799	-87.8919	302.8516	-25.0214	Gemini South	GMOS-S	GS-2016A-Q-76
12433200-2408376	3501624164266183552	190.8833	-24.1438	300.6213	38.6924	Gemini South	GMOS-S	GS-2016A-Q-76
12435927+7222303	1689741705929430016	190.9970	72.3751	123.7260	44.7418	Gemini North	GMOS-N	GN-2015A-Q-76
12450496-1907283	3521841434322113152	191.2707	-19.1246	300.8546	43.7215	Gemini South	GMOS-S	GS-2017A-Q-86
12493821+6415038	1676938094886271104	192.4092	64.2510	123.2559	52.8762	Gemini North	GMOS-N	GN-2016A-Q-75
12503487+4033500	1527854729160394496	192.6454	40.5639	123.6322	76.5633	Gemini North	GMOS-N	GN-2015A-Q-76
12505600+5649548	1576792896497757440	192.7333	56.8319	123.0718	60.2964	Gemini North	GMOS-N	GN-2015A-Q-76
12510042-1942157	3509552399017285632	192.7518	-19.7044	302.7930	43.1671	Gemini South	GMOS-S	GS-2017A-Q-86
12511944+6940558	1688859141689049984	192.8311	69.6822	122.9468	47.4462	Gemini North	GMOS-N	GN-2018B-Q-316
12534156+4512260	1530523729214664192	193.4232	45.2073	121.6527	71.9152	Gemini North	GMOS-N	GN-2015A-Q-76
12540492-1445540	3525348811990850560	193.5205	-14.7650	303.8888	48.1021	Gemini South	GMOS-S	GS-2016A-Q-76
12541483-6940177	5844853661205358208	193.5618	-69.6716	303.1776	-6.8011	Gemini South	GMOS-S	GS-2015A-Q-77
12550382+4640597	1530993770436582784	193.7659	46.6833	121.0752	70.4320	Gemini North	GMOS-N	GN-2015A-Q-76
12552381-8428164	5770402155472131712	193.8493	-84.4712	303.0345	-21.6002	Gemini South	GMOS-S	GS-2016A-Q-76
12553388+6801121	1679621251151114624	193.8911	68.0201	122.3420	49.1036	Gemini North	GMOS-N	GN-2018B-Q-316
12572833-5125217	6081346139752486784	194.3680	-51.4227	303.8916	11.4378	Gemini South	GMOS-S	GS-2015A-Q-92
12592188+5338040	1558199669539397376	194.8412	53.6344	120.3024	63.4534	Gemini North	GMOS-N	GN-2018B-Q-316
12595962-0829171	3627268897025456000	194.9984	-8.4881	306.5606	54.3234	Gemini South	GMOS-S	GS-2017A-Q-86
13003028+6135085	1579614380772959104	195.1262	61.5857	121.0277	55.5092	Gemini North	GMOS-N	GN-2015A-Q-76
13022750+5836042	1578633165428231552	195.6146	58.6012	120.1874	58.4683	Gemini North	GMOS-N	GN-2016A-Q-75
13031323+4812574	1555059567409267328	195.8051	48.2159	117.5012	68.7880	Gemini North	GMOS-N	GN-2018B-Q-316
13044809-8623048	5769157650045097984	196.2007	-86.3847	303.1616	-23.5189	Gemini South	GMOS-S	GS-2017A-Q-86
13070832-5007271	6081477913650691456	196.7847	-50.1242	305.5100	12.6689	Gemini South	GMOS-S	GS-2017A-Q-86
13073032+4948349	1556370498804511360	196.8763	49.8097	116.2582	67.1099	Gemini North	GMOS-N	GN-2016A-Q-75
13091593+4640598	1553980847721855616	197.3163	46.6833	113.9085	70.1316	Gemini North	GMOS-N	GN-2016A-Q-75
13091772+4524279	1529793344255574016	197.3238	45.4077	113.0784	71.3774	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
13123590+7259464	1688176585486569600	198.1497	72.9962	120.7828	44.0435	Gemini North	GMOS-N	GN-2018B-Q-316
13133130-6138303	5863379783621954944	198.3805	-61.6418	305.5516	1.1176	Gemini South	GMOS-S	GS-2015A-Q-77
13134248+3405127	1473046861950780032	198.4270	34.0869	89.7628	81.5548	Gemini North	GMOS-N	GN-2017A-Q-82
13140302-0929340	3624508096342874240	198.5126	-9.4928	312.2159	52.9709	Gemini South	GMOS-S	GS-2017A-Q-86
13145513+3825569	1522993032339838848	198.7298	38.4325	100.8913	77.6728	Gemini North	GMOS-N	GN-2018B-Q-316
13151765+5708386	1566249645139278720	198.8236	57.1441	116.5195	59.6861	Gemini North	GMOS-N	GN-2018B-Q-316
13175280+3411307	1473007485690704128	199.4700	34.1919	85.7376	80.9371	Gemini North	GMOS-N	GN-2018B-Q-316
13222653+7020284	1685430349037732864	200.6105	70.3413	119.1484	46.5586	Gemini North	GMOS-N	GN-2016A-Q-75
13222932+3936562	1476579283573419264	200.6222	39.6156	97.5638	75.9445	Gemini North	GMOS-N	GN-2016A-Q-75
13230288-1704404	3604328999956748032	200.7620	-17.0779	313.6688	45.1339	Gemini South	GMOS-S	GS-2017A-Q-86
13231009-0531428	3635041726974665600	200.7920	-5.5286	317.3251	56.4538	Gemini South	GMOS-S	GS-2016A-Q-76
13231283+4320557	1549603412755666944	200.8035	43.3488	103.3499	72.5508	Gemini North	GMOS-N	GN-2015A-Q-76
13240005-1748099	3604036456848334720	201.0003	-17.8028	313.8055	44.3804	Gemini South	GMOS-S	GS-2016A-Q-76
13241831+4610307	1551088548024093952	201.0763	46.1752	106.2184	69.8718	Gemini North	GMOS-N	GN-2016A-Q-75
13242995-4551146	6087082811610225536	201.1248	-45.8541	308.9301	16.6323	Gemini South	GMOS-S	GS-2015A-Q-92
13244275-1607008	3604537731071348992	201.1782	-16.1169	314.4756	46.0077	Gemini South	GMOS-S	GS-2016A-Q-76
13253853-1412517	3608192335923918208	201.4106	-14.2144	315.3307	47.8322	Gemini South	GMOS-S	GS-2016A-Q-76
13282335+7427122	1712581998412032768	202.0974	74.4534	119.5899	42.4342	Gemini North	GMOS-N	GN-2018B-Q-316
13294999+0115237	3711389512304903168	202.4583	1.2566	324.1240	62.5379	Gemini North	GMOS-N	GN-2016A-Q-75
13303726-4125545	6160938171579414016	202.6552	-41.4318	310.7768	20.8423	Gemini South	GMOS-S	GS-2017A-Q-86
13351401-0110524	3638534188221336960	203.8085	-1.1812	325.1055	59.7917	Gemini South	GMOS-S	GS-2016A-Q-76
13360938-4408536	6111481627465700352	204.0391	-44.1482	311.3429	17.9919	Gemini South	GMOS-S	GS-2015A-Q-77
13373017-7717500	5789490093947866624	204.3758	-77.2972	305.5327	-14.6587	Gemini South	GMOS-S	GS-2017A-Q-86
13373672+5902017	1662055552169232896	204.4030	59.0338	112.0036	57.1043	Gemini North	GMOS-N	GN-2016A-Q-75
13375051+4742311	1552172322891498240	204.4604	47.7087	102.2154	67.5100	Gemini North	GMOS-N	GN-2016A-Q-75
13394721+6824054	1672939136736222464	204.9470	68.4015	116.3043	48.0997	Gemini North	GMOS-N	GN-2016A-Q-75
13401321+7237543	1687511071713939712	205.0551	72.6317	117.9012	44.0169	Gemini North	GMOS-N	GN-2017A-Q-82
13404811+0717285	3724481569055443712	205.2004	7.2912	335.7372	66.9644	Gemini North	GMOS-N	GN-2019A-Q-309
13425404-0717005	3620124270467822848	205.7252	-7.2835	324.6761	53.4016	Gemini South	GMOS-S	GS-2016A-Q-76
13433867+4844266	1558284370590734336	205.9111	48.7408	101.3291	66.1398	Gemini North	GMOS-N	GN-2016A-DD-3
13434635-0806060	3618345883425109632	205.9432	-8.1016	324.5634	52.5582	Gemini South	GMOS-S	GS-2016A-Q-76
13443166+1523410	3742083100949072640	206.1319	15.3948	352.0486	72.9768	Gemini North	GMOS-N	GN-2017A-Q-82
13443667-4143163	6112289699794699264	206.1528	-41.7212	313.4593	20.0610	Gemini South	GMOS-S	GS-2015A-Q-77
13452111-0730545	3619873547457548160	206.3380	-7.5152	325.4995	52.9780	Gemini South	GMOS-S	GS-2016A-Q-76
13454247-7355568	5791382177358811264	206.4272	-73.9325	306.7305	-11.4624	Gemini South	GMOS-S	GS-2015A-Q-77
13455046+0513062	3714276142644562432	206.4603	5.2184	335.9458	64.5444	Gemini North	GMOS-N	GN-2016A-Q-75
13455076+1426436	3741132710585731840	206.4616	14.4455	350.6401	72.0691	Gemini North	GMOS-N	GN-2019A-Q-309
13460278-6854556	5850193237592455552	206.5116	-68.9155	307.8349	-6.5651	Gemini South	GMOS-S	GS-2015A-Q-92
13461713-4155246	6112273791235652352	206.5714	-41.9235	313.7354	19.7947	Gemini South	GMOS-S	GS-2015A-Q-77
13465223-4334387	6108883889504179072	206.7176	-43.5774	313.4538	18.1589	Gemini South	GMOS-S	GS-2017A-Q-86
13481581-7052139	5840796639405915648	207.0658	-70.8705	307.5960	-8.5153	Gemini South	GMOS-S	GS-2017A-Q-86
13510697+5853470	1659341789968532736	207.7790	58.8964	108.9568	56.5832	Gemini North	GMOS-N	GN-2017A-Q-82

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
13512378+0741110	3721736844435125760	207.8491	7.6864	341.8480	65.9188	Gemini North	GMOS-N	GN-2016A-Q-75
13521659-3554258	6115884072018761728	208.0692	-35.9072	316.5320	25.3527	Gemini South	GMOS-S	GS-2014A-Q-8
13533557+7552137	1712349073745277056	208.3985	75.8704	117.9866	40.6554	Gemini North	GMOS-N	GN-2019A-Q-309
13550687+1707259	1243948839616012160	208.7787	17.1238	2.0101	72.2082	Gemini North	GMOS-N	GN-2016A-Q-75
13580646+1002348	3723801761632006784	209.5269	10.0431	348.7023	66.7873	Gemini North	GMOS-N	GN-2015A-Q-76
13584157-3151091	6171032134996732416	209.6732	-31.8526	319.2277	28.8819	Gemini South	GMOS-S	GS-2014A-Q-74
13592706+1141130	3727361838547995648	209.8628	11.6870	352.1834	67.7904	Gemini North	GMOS-N	GN-2016A-Q-75
14002121+5538479	1657538212943126400	210.0884	55.6466	104.0608	58.8848	Gemini North	GMOS-N	GN-2019A-Q-309
14004596+1215235	3727546045400955136	210.1915	12.2566	353.8509	67.9740	Gemini North	GMOS-N	GN-2019A-Q-309
14012934+1126361	3724429582771428352	210.3723	11.4434	352.6875	67.2694	Gemini North	GMOS-N	GN-2016A-Q-75
14020262-6530100	5851263646573358848	210.5109	-65.5028	310.1695	-3.6280	Gemini South	GMOS-S	GS-2015A-Q-77
14043744+1255144	1229600350311933952	211.1560	12.9207	356.8517	67.7527	Gemini North	GMOS-N	GN-2016A-Q-75
14053819+7503388	1712061237921283456	211.4093	75.0609	116.6787	41.1540	Gemini North	GMOS-N	GN-2019A-Q-309
14063229+4115356	1498298211635183744	211.6345	41.2599	80.2537	69.0896	Gemini North	GMOS-N	GN-2016A-Q-75
14070810+6936102	1674781746425953792	211.7837	69.6028	113.5464	46.1215	Gemini North	GMOS-N	GN-2016A-Q-75
14071697+1212488	1226501033191248640	211.8207	12.2135	356.6407	66.7967	Gemini North	GMOS-N	GN-2019A-Q-309
14095514-2844258	6269381255374610176	212.4798	-28.7405	323.0317	31.0498	Gemini South	GMOS-S	GS-2016A-Q-76
14103285-2816339	6270148611411493888	212.6369	-28.2761	323.3736	31.4362	Gemini South	GMOS-S	GS-2016A-Q-76
14164140+6136563	1666637942972460672	214.1724	61.6156	106.3717	52.6850	Gemini North	GMOS-N	GN-2016A-Q-75
14173352-2745144	6269861295279466752	214.3897	-27.7540	325.2843	31.3526	Gemini South	GMOS-S	GS-2014A-Q-8
14192484-2307370	6275972209107871872	214.8535	-23.1270	327.9382	35.4367	Gemini South	GMOS-S	GS-2014A-Q-8
14193074+4035121	1491839749053036160	214.8781	40.5867	75.1139	67.4048	Gemini North	GMOS-N	GN-2015A-Q-76
14200302+5936293	1660185630782829952	215.0125	59.6082	103.9318	54.1296	Gemini North	GMOS-N	GN-2016A-Q-75
14203031-2729455	6269707565513913088	215.1263	-27.4960	326.1058	31.3365	Gemini South	GMOS-S	GS-2016A-Q-76
14211081-5015172	6091186773125289728	215.2951	-50.2548	317.2825	10.0996	Gemini South	GMOS-S	GS-2017A-Q-86
14223584+4045568	1491104691170130944	215.6493	40.7658	74.7789	66.8071	Gemini North	GMOS-N	GN-2018A-Q-403
14243397+5624475	1610452860137779584	216.1416	56.4132	99.7128	56.3158	Gemini North	GMOS-N	GN-2019A-Q-309
14255416+2648176	1256475262057930112	216.4756	26.8049	37.4795	68.9802	Gemini North	GMOS-N	GN-2016A-Q-75
14261661+8102449	1721820606208706176	216.5692	81.0458	118.5362	35.2578	Gemini North	GMOS-N	GN-2016A-Q-75
14280573-1353174	6300021547768039808	217.0239	-13.8882	335.6955	42.7512	Gemini South	GMOS-S	GS-2016A-Q-76
14294135+6525010	1669746193625166976	217.4223	65.4169	107.7386	48.7113	Gemini North	GMOS-N	GN-2017B-Q-75
14295841+4502025	1494491496221024512	217.4934	45.0341	81.7578	63.4216	Gemini North	GMOS-N	GN-2017B-Q-75
14324019+3238042	1287120579569866496	218.1675	32.6345	53.1817	67.4362	Gemini North	GMOS-N	GN-2016A-Q-75
14341379-6707026	5848443708440147072	218.5575	-67.1174	312.6971	-6.2152	Gemini South	GMOS-S	GS-2015A-Q-77
14364248-0715099	6331121238455373696	219.1770	-7.2528	343.2746	47.2051	Gemini South	GMOS-S	GS-2016A-Q-76
14385266+3937037	1487940434144428416	219.7195	39.6177	69.0708	64.4716	Gemini North	GMOS-N	GN-2018A-Q-403
14402612+0655539	1171807334801223808	220.1088	6.9316	359.9458	57.1894	Gemini North	GMOS-N	GN-2016A-Q-75
14410823+4223420	1490063071404892544	220.2843	42.3950	74.4527	62.9795	Gemini North	GMOS-N	GN-2015A-Q-76
14411830+1044242	1177885611173494016	220.3263	10.7401	5.8566	59.4075	Gemini North	GMOS-N	GN-2016A-Q-75
14421990+5654506	1607745454489656960	220.5829	56.9140	97.1322	54.3031	Gemini North	GMOS-N	GN-2015A-Q-76
14431485-0206178	3648915222959836800	220.8119	-2.1050	350.0369	50.2535	Gemini South	GMOS-S	GS-2016A-Q-76
14442119+4758464	1591067649802389632	221.0883	47.9796	84.0216	59.7291	Gemini North	GMOS-N	GN-2019A-Q-309

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
14443681+3939231	1487238292890443776	221.1534	39.6564	68.2820	63.4225	Gemini North	GMOS-N	GN-2016A-Q-75
14444228+4247368	1490052389822427648	221.1761	42.7936	74.6260	62.2155	Gemini North	GMOS-N	GN-2016A-Q-75
14453096-0214079	3648730612380753664	221.3791	-2.2357	350.5701	49.7835	Gemini South	GMOS-S	GS-2017A-Q-86
14455563+5838081	1616958709094540672	221.4818	58.6356	98.6090	52.7466	Gemini North	GMOS-N	GN-2019A-Q-309
14460403-7303141	5796756182184708096	221.5168	-73.0539	311.1490	-12.0377	Gemini South	GMOS-S	GS-2015A-Q-92
14473151+0306259	1157525159792413440	221.8812	3.1072	357.0914	53.3032	Gemini North	GMOS-N	GN-2019A-Q-309
14504173+6652564	1669581885356163456	222.6740	66.8823	106.5302	46.2651	Gemini North	GMOS-N	GN-2015A-Q-76
14512223+0339397	1157672906667474432	222.8427	3.6611	358.8578	52.9804	Gemini North	GMOS-N	GN-2019A-Q-309
14520851+7234433	1698671492693440512	223.0356	72.5787	111.3011	41.7143	Gemini North	GMOS-N	GN-2017A-Q-82
14535190-4724035	5905262548019849856	223.4662	-47.4010	323.4514	10.5341	Gemini South	GMOS-S	GS-2016A-Q-76
14550996+1452303	1185448189587672960	223.7915	14.8751	16.1780	58.7472	Gemini North	GMOS-N	GN-2015A-Q-76
14561630+4534315	1586671424357440000	224.0679	45.5754	77.9266	59.1447	Gemini North	GMOS-N	GN-2016A-Q-75
14561931+0829491	1161734987952738176	224.0805	8.4970	6.5604	55.0964	Gemini North	GMOS-N	GN-2015A-Q-76
14572828+3910442	1296184266229998976	224.3678	39.1789	65.7123	61.1931	Gemini North	GMOS-N	GN-2018A-Q-403
14572980+5047347	1593299585391391232	224.3743	50.7930	86.2694	56.4012	Gemini North	GMOS-N	GN-2016A-Q-75
14584270+6055051	1619069599620600576	224.6779	60.9180	99.4349	50.0026	Gemini North	GMOS-N	GN-2015A-Q-76
14584982+4500407	1586583807024523520	224.7076	45.0113	76.5609	58.9769	Gemini North	GMOS-N	GN-2015A-Q-76
14590313+0544031	1159807818946952064	224.7630	5.7342	3.5363	52.8753	Gemini North	GMOS-N	GN-2016A-Q-75
14591786+4755555	1587515844991289600	224.8245	47.9321	81.4725	57.6062	Gemini North	GMOS-N	GN-2017A-Q-82
15002374+1131178	1180473277429900288	225.0990	11.5216	11.9797	55.9639	Gemini North	GMOS-N	GN-2017B-Q-75
15010054+5654074	1612825747965425152	225.2511	56.9029	94.2775	52.4072	Gemini North	GMOS-N	GN-2016A-Q-75
15010753+1708495	1187645868519130240	225.2814	17.1471	21.3058	58.4630	Gemini North	GMOS-N	GN-2016A-Q-75
15012803+3616594	1294826884765960192	225.3668	36.2832	59.5064	61.0283	Gemini North	GMOS-N	GN-2015A-Q-76
15015996-2613494	6225828809526332416	225.4998	-26.2304	336.1875	28.0814	Gemini South	GMOS-S	GS-2014A-Q-8
15021465+3507093	1291694234403435648	225.5610	35.1193	57.0812	61.0336	Gemini North	GMOS-N	GN-2016A-Q-75
15023312+0549057	1159849256791308160	225.6381	5.8183	4.5354	52.2458	Gemini North	GMOS-N	GN-2015A-Q-76
15023572+0940189	1167946644533913728	225.6490	9.6720	9.7730	54.5041	Gemini North	GMOS-N	GN-2015A-Q-76
15023742-2442191	6227668258118329088	225.6560	-24.7053	337.2753	29.2794	Gemini South	GMOS-S	GS-2014A-Q-8
15025030+1345255	1181911644797448832	225.7096	13.7570	15.9964	56.5808	Gemini North	GMOS-N	GN-2017B-Q-75
15025884+4539160	1586250517562417024	225.7452	45.6545	77.1119	58.0481	Gemini North	GMOS-N	GN-2017A-Q-82
15031286+0602157	1159876916380773120	225.8036	6.0377	4.9833	52.2508	Gemini North	GMOS-N	GN-2016A-Q-75
15040464+5927327	1614255147440846720	226.0194	59.4591	97.0371	50.4729	Gemini North	GMOS-N	GN-2017A-Q-82
15043325+0441214	1156620193003216256	226.1386	4.6892	3.6098	51.1530	Gemini North	GMOS-N	GN-2019A-Q-309
15050841+0701547	1160377499113263360	226.2850	7.0319	6.7542	52.4687	Gemini North	GMOS-N	GN-2015A-Q-76
15060136-2508317	6227460583562691968	226.5057	-25.1421	337.7284	28.4874	Gemini South	GMOS-S	GS-2014A-Q-8
15060189+0444205	1156532506951177472	226.5079	4.7390	4.0375	50.8970	Gemini North	GMOS-N	GN-2019A-Q-309
15065236-2547072	6226609772026895104	226.7181	-25.7853	337.4994	27.8474	Gemini South	GMOS-S	GS-2014A-Q-8
15071495+5704053	1612981535018964224	226.8123	57.0682	93.6455	51.6333	Gemini North	GMOS-N	GN-2019A-Q-309
15085620-7020101	5799023787486633984	227.2342	-70.3362	314.0728	-10.4986	Gemini South	GMOS-S	GS-2017A-Q-86
15092359+3623180	1292060685309150336	227.3483	36.3883	59.2466	59.4342	Gemini North	GMOS-N	GN-2016A-Q-75
15094309-2025300	6255898665838008960	227.4296	-20.4250	341.6853	31.8463	Gemini South	GMOS-S	GS-2014A-Q-8
15095381+7303555	1697243020930244608	227.4740	73.0654	110.3625	40.5086	Gemini North	GMOS-N	GN-2018A-Q-403

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
15102643+0809151	1166563287107603328	227.6101	8.1542	9.4922	52.0486	Gemini North	GMOS-N	GN-2016A-Q-75
15114226+2557063	1265182569515722880	227.9261	25.9517	38.8871	58.7082	Gemini North	GMOS-N	GN-2019A-Q-309
15122018-6551473	5824755211457838848	228.0841	-65.8632	316.6733	-6.8242	Gemini South	GMOS-S	GS-2017A-Q-86
15140783+1824326	1211721397891599872	228.5326	18.4091	25.6801	56.0976	Gemini North	GMOS-N	GN-2015A-Q-76
15142395+2613341	1265208133161061888	228.5998	26.2262	39.6035	58.1597	Gemini North	GMOS-N	GN-2016A-Q-75
15174310-6858306	5799218602888406272	229.4296	-68.9752	315.4580	-9.7405	Gemini South	GMOS-S	GS-2016A-Q-76
15185830+2620276	1270426797601163008	229.7430	26.3410	40.1419	57.1693	Gemini North	GMOS-N	GN-2016A-Q-75
15193496+4256501	1394164216985937152	229.8957	42.9472	70.5652	56.1708	Gemini North	GMOS-N	GN-2017A-Q-82
15193617+2304315	1215718152722386816	229.9007	23.0754	34.3768	56.3328	Gemini North	GMOS-N	GN-2015A-Q-76
15200891-6701472	5823675417983108096	230.0371	-67.0298	316.7167	-8.2270	Gemini South	GMOS-S	GS-2016A-Q-76
15210142+7816076	1708318332837616256	230.2561	78.2688	114.1330	36.1725	Gemini North	GMOS-N	GN-2019A-Q-309
15243997-8015248	5772460033220024576	231.1666	-80.2569	309.3150	-19.3429	Gemini South	GMOS-S	GS-2015A-Q-77
15244942+6935080	1695610791623488128	231.2058	69.5856	105.9664	42.1297	Gemini North	GMOS-N	GN-2019A-Q-309
15252134+6351159	1640849688017226496	231.3389	63.8545	99.7938	45.7530	Gemini North	GMOS-N	GN-2019A-Q-309
15255933+5026270	1594780288252588032	231.4973	50.4407	82.0462	52.5882	Gemini North	GMOS-N	GN-2016A-Q-75
15264322-7017087	5796025453632860544	231.6801	-70.2858	315.3838	-11.2653	Gemini South	GMOS-S	GS-2017A-Q-86
15272716+2937502	1273518040182639872	231.8632	29.6306	46.4979	55.7525	Gemini North	GMOS-N	GN-2016A-Q-75
15282654+6737516	1645668263365914368	232.1106	67.6310	103.6595	43.1537	Gemini North	GMOS-N	GN-2019A-Q-309
15304031+2345045	1220893455176256512	232.6680	23.7512	36.6269	54.0401	Gemini North	GMOS-N	GN-2015A-Q-76
15312758+2528504	1222449092327405056	232.8648	25.4807	39.5737	54.2501	Gemini North	GMOS-N	GN-2016A-Q-75
15330912+8158562	1721465807550041856	233.2877	81.9823	116.7339	33.0944	Gemini North	GMOS-N	GN-2019A-Q-309
15345353+5610250	1601294344891081472	233.7229	56.1737	89.2925	48.8931	Gemini North	GMOS-N	GN-2015A-Q-76
15351593+0251226	4427077397649058944	233.8164	2.8563	8.3428	43.9483	Gemini North	GMOS-N	GN-2016A-Q-75
15352535+2843009	1272505179518285696	233.8557	28.7169	45.2661	53.9200	Gemini North	GMOS-N	GN-2016A-Q-75
15371627+3318345	1370624708124173312	234.3178	33.3096	53.0936	53.8838	Gemini North	GMOS-N	GN-2015A-Q-76
15381851+4804330	1401181854246440704	234.5772	48.0758	77.2896	51.5478	Gemini North	GMOS-N	GN-2017B-Q-75
15391788+5403318	1597864040410848896	234.8246	54.0589	85.9690	49.2523	Gemini North	GMOS-N	GN-2016A-Q-75
15392367+4037228	1389938076542244992	234.8487	40.6231	65.3294	53.0318	Gemini North	GMOS-N	GN-2015A-Q-76
15392783+5557319	1601593274615155712	234.8660	55.9589	88.5655	48.4213	Gemini North	GMOS-N	GN-2017B-Q-75
15393011+7252178	1696583898069432704	234.8755	72.8716	108.2194	39.0869	Gemini North	GMOS-N	GN-2017B-Q-75
15394006+4426174	1397344691808122624	234.9170	44.4381	71.5001	52.2849	Gemini North	GMOS-N	GN-2016A-Q-75
15414028+8245352	1723003508921638656	235.4183	82.7598	117.1416	32.3417	Gemini North	GMOS-N	GN-2019A-Q-309
15420239+0515389	4427879525740941056	235.5100	5.2608	12.4234	43.9188	Gemini North	GMOS-N	GN-2016A-Q-75
15431257+6424109	1641066429247008128	235.8024	64.4030	98.8461	43.8446	Gemini North	GMOS-N	GN-2016A-Q-75
15433525+3739578	1376344024013884800	235.8968	37.6660	60.3300	52.5193	Gemini North	GMOS-N	GN-2015A-Q-76
15441676+0459116	4429308311037974272	236.0698	4.9866	12.5277	43.3020	Gemini North	GMOS-N	GN-2016A-Q-75
15452566-4444040	5988917073480792704	236.3569	-44.7345	332.5139	7.9142	Gemini South	GMOS-S	GS-2015A-Q-77
15460715+0559221	4429522058673688192	236.5299	5.9895	14.0293	43.4575	Gemini North	GMOS-N	GN-2018A-Q-403
15470901+0505149	4426320800506688384	236.7876	5.0875	13.1753	42.7569	Gemini North	GMOS-N	GN-2018A-Q-403
15471083-4404210	5989331898604674176	236.7951	-44.0725	333.1771	8.2384	Gemini South	GMOS-S	GS-2015A-Q-77
15475041+6321134	1640197196585984896	236.9601	63.3538	97.2355	43.9625	Gemini North	GMOS-N	GN-2015A-Q-76
15482592-3959257	6008057268799998848	237.1080	-39.9905	335.9638	11.2675	Gemini South	GMOS-S	GS-2014A-Q-74

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
15482651+1917200	1203885900077833984	237.1105	19.2889	31.6889	48.7926	Gemini North	GMOS-N	GN-2018A-Q-403
15484895+0949113	4455582481414836096	237.2039	9.8198	19.1033	44.8230	Gemini North	GMOS-N	GN-2019A-Q-309
15494232+5707537	1598759730070071808	237.4263	57.1316	89.2400	46.6440	Gemini North	GMOS-N	GN-2018A-Q-403
15495840-4306370	5989480401391030528	237.4934	-43.1103	334.1860	8.6693	Gemini South	GMOS-S	GS-2015A-Q-77
15501637+3536243	1372799645203241856	237.5682	35.6068	56.9350	51.2361	Gemini North	GMOS-N	GN-2015A-Q-76
15511496+0734493	4430292717546018304	237.8124	7.5804	16.8074	43.1949	Gemini North	GMOS-N	GN-2018A-Q-403
15512062+0140120	4423150667969419264	237.8359	1.6700	10.1666	39.9857	Gemini North	GMOS-N	GN-2016A-Q-75
15514567-3935382	6008406329380234368	237.9403	-39.5940	336.7238	11.1651	Gemini South	GMOS-S	GS-2014A-Q-8
15521212-3934227	6008407257093139456	238.0505	-39.5730	336.8038	11.1266	Gemini South	GMOS-S	GS-2014A-Q-74
15525776+0136148	4411131043072307456	238.2407	1.6041	10.3963	39.6157	Gemini North	GMOS-N	GN-2019A-Q-309
15533843+0145539	4411228560308157184	238.4101	1.7650	10.6929	39.5676	Gemini North	GMOS-N	GN-2015A-Q-76
15541062-3255166	6015313976817734784	238.5443	-32.9213	341.5793	15.9076	Gemini South	GMOS-S	GS-2014A-Q-74
15542259-3341566	6012240773099364992	238.5941	-33.6991	341.0776	15.2968	Gemini South	GMOS-S	GS-2014A-Q-8
15542887-3332103	6012255341628535680	238.6203	-33.5362	341.2062	15.4046	Gemini South	GMOS-S	GS-2016A-Q-76
15545039-4652323	5987712279288235648	238.7100	-46.8756	332.4390	5.2180	Gemini South	GMOS-S	GS-2015A-Q-77
15555135+1256054	1191328721374511744	238.9640	12.9349	24.1168	44.7069	Gemini North	GMOS-N	GN-2016A-Q-75
15563950+0754021	4454167994065860352	239.1646	7.9006	18.0975	42.1954	Gemini North	GMOS-N	GN-2016A-Q-75
15570603+0757417	4454127621373692032	239.2751	7.9616	18.2420	42.1305	Gemini North	GMOS-N	GN-2018A-Q-403
15583081+1505320	1192938543835309952	239.6284	15.0922	27.2632	45.0147	Gemini North	GMOS-N	GN-2018A-Q-403
15583757-3734113	6010214613689309056	239.6566	-37.5698	339.1090	11.8231	Gemini South	GMOS-S	GS-2014A-Q-74
15584850-3603371	6010918747795620480	239.7021	-36.0604	340.1638	12.9270	Gemini South	GMOS-S	GS-2014A-Q-74
15591458+0507554	4425763554271082112	239.8108	5.1321	15.3663	40.2314	Gemini North	GMOS-N	GN-2016A-Q-75
15592133-3416261	6011940778224281856	239.8389	-34.2739	341.4779	14.1806	Gemini South	GMOS-S	GS-2014A-Q-74
15592229-3853560	5997979351379581312	239.8429	-38.8989	338.3229	10.7306	Gemini South	GMOS-S	GS-2014A-Q-74
15592785+0314441	4424940775976241664	239.8661	3.2456	13.3301	39.1785	Gemini North	GMOS-N	GN-2016A-Q-75
15593606-3220592	6036353337976099840	239.9003	-32.3498	342.8583	15.5682	Gemini South	GMOS-S	GS-2016A-Q-76
15593767+1613419	1199172465527378176	239.9069	16.2283	28.8944	45.2106	Gemini North	GMOS-N	GN-2017B-Q-75
15595245-3207381	6036461468074424448	239.9685	-32.1273	343.0584	15.6930	Gemini South	GMOS-S	GS-2014A-Q-74
16001273+2435560	1219123340233877376	240.0531	24.5989	40.5091	47.7050	Gemini North	GMOS-N	GN-2015A-Q-76
16004212+1105313	4457460855293872128	240.1756	11.0920	22.5513	42.8302	Gemini North	GMOS-N	GN-2015A-Q-76
16005880-3307564	6036077979033846528	240.2450	-33.1323	342.5307	14.7958	Gemini South	GMOS-S	GS-2014A-Q-74
16020475+0622249	4450709720758088192	240.5198	6.3736	17.2362	40.2662	Gemini North	GMOS-N	GN-2016A-Q-75
16025295+3733291	1379240098985809408	240.7206	37.5580	59.9680	48.7040	Gemini North	GMOS-N	GN-2015A-Q-76
16025382-8226516	5768895377865607808	240.7243	-82.4477	308.9632	-21.9349	Gemini South	GMOS-S	GS-2016A-Q-76
16025490+0102272	4411633352385123840	240.7287	1.0409	11.5934	37.2443	Gemini North	GMOS-N	GN-2015A-Q-76
16030891+1940229	1203268485640442880	240.7871	19.6730	33.9081	45.6475	Gemini North	GMOS-N	GN-2017B-Q-75
16032024+1641034	1199294713178394496	240.8344	16.6843	29.9640	44.5585	Gemini North	GMOS-N	GN-2016A-Q-75
16033629+3116414	1322162667977621632	240.9012	31.2782	50.5246	48.1846	Gemini North	GMOS-N	GN-2017A-Q-82
16034976+0832565	4451626679096707456	240.9573	8.5490	20.0114	40.9628	Gemini North	GMOS-N	GN-2015A-Q-76
16040396+1841499	1200065646925933056	241.0166	18.6972	32.7013	45.1166	Gemini North	GMOS-N	GN-2016A-Q-75
16040780+4241470	1383653195061929728	241.0325	42.6963	67.6884	48.1953	Gemini North	GMOS-N	GN-2017B-Q-75
16042932-2253301	6242404084762732800	241.1222	-22.8918	350.6169	21.6196	Gemini South	GMOS-S	GS-2016A-Q-76

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
16045324-2005064	6244194055324808576	241.2218	-20.0851	352.8743	23.5013	Gemini South	GMOS-S	GS-2015A-Q-77
16051879+1359570	1191908675099304704	241.3283	13.9991	26.7985	43.0681	Gemini North	GMOS-N	GN-2015A-Q-76
16052710+0024235	4409850528641208192	241.3629	0.4066	11.3808	36.3634	Gemini North	GMOS-N	GN-2015A-Q-76
16052946-2543348	6043663818991262208	241.3728	-25.7263	348.6370	19.4631	Gemini South	GMOS-S	GS-2014A-Q-8
16053749+1843052	1200145322861774080	241.4062	18.7181	32.9085	44.7769	Gemini North	GMOS-N	GN-2016A-Q-75
16055339+1944171	1203234576873824384	241.4725	19.7381	34.2955	45.0589	Gemini North	GMOS-N	GN-2015A-Q-76
16060454-3508190	6034898993336955008	241.5189	-35.1386	341.9189	12.6086	Gemini South	GMOS-S	GS-2014A-Q-74
16061119-3620355	5998751552140270976	241.5466	-36.3432	341.0933	11.7142	Gemini South	GMOS-S	GS-2014A-Q-74
16061643-3237103	6036155219728437760	241.5685	-32.6195	343.7311	14.4096	Gemini South	GMOS-S	GS-2014A-Q-8
16064542-3216179	6036585644175848576	241.6893	-32.2717	344.0555	14.5906	Gemini South	GMOS-S	GS-2014A-Q-8
16065604-3707315	5998563982328033920	241.7336	-37.1254	340.6602	11.0405	Gemini South	GMOS-S	GS-2014A-Q-8
16073239-2250378	6242439784523836416	241.8850	-22.8439	351.1796	21.1487	Gemini South	GMOS-S	GS-2014A-Q-74
16073532-3208471	6036547126907295616	241.8972	-32.1465	344.2762	14.5588	Gemini South	GMOS-S	GS-2014A-Q-74
16074138-3314575	6035358520474835456	241.9224	-33.2494	343.5035	13.7492	Gemini South	GMOS-S	GS-2014A-Q-8
16074907+1420135	4458558752013944960	241.9545	14.3371	27.5567	42.6512	Gemini North	GMOS-N	GN-2016A-Q-75
16080889-2943209	6041589418507890688	242.0371	-29.7225	346.1198	16.2113	Gemini South	GMOS-S	GS-2014A-Q-8
16081391-2017182	6244117639267067008	242.0580	-20.2884	353.2985	22.7907	Gemini South	GMOS-S	GS-2014A-Q-8
16083267-3438595	6034940156304474112	242.1362	-34.6499	342.6401	12.6151	Gemini South	GMOS-S	GS-2014A-Q-8
16084292-2820180	6041824610913270656	242.1789	-28.3383	347.2285	17.1073	Gemini South	GMOS-S	GS-2014A-Q-8
16091164+3008425	1318809707269021184	242.2985	30.1451	49.1055	46.8398	Gemini North	GMOS-N	GN-2015A-Q-76
16101125-3446225	6034969392126840320	242.5469	-34.7729	342.8021	12.2924	Gemini South	GMOS-S	GS-2014A-Q-8
16102112+0023264	4408313235288945024	242.5880	0.3907	12.2073	35.3376	Gemini North	GMOS-N	GN-2015A-Q-76
16102340+3952510	1379957603338177280	242.5976	39.8808	63.4002	47.2022	Gemini North	GMOS-N	GN-2017B-Q-75
16102544+1810108	1199821898940802944	242.6060	18.1697	32.7403	43.5194	Gemini North	GMOS-N	GN-2015A-Q-76
16103301+0031597	4408318943304571776	242.6376	0.5332	12.3865	35.3752	Gemini North	GMOS-N	GN-2016A-Q-75
16103970-2443561	6049772323329029632	242.6654	-24.7323	350.2575	19.3246	Gemini South	GMOS-S	GS-2014A-Q-74
16105877-2811435	6041842237458491520	242.7449	-28.1954	347.7022	16.8549	Gemini South	GMOS-S	GS-2014A-Q-8
16111495-3204491	6035900167382119808	242.8123	-32.0803	344.8963	14.0648	Gemini South	GMOS-S	GS-2014A-Q-8
16113577-1909453	6245765566678852608	242.8991	-19.1626	354.7795	22.9703	Gemini South	GMOS-S	GS-2015A-Q-77
16114668-2427053	6049806927886876928	242.9445	-24.4515	350.6585	19.3357	Gemini South	GMOS-S	GS-2014A-Q-8
16121101-2818128	6042164669240420864	243.0459	-28.3036	347.8161	16.5902	Gemini South	GMOS-S	GS-2014A-Q-8
16123013+4456046	1385790890480677376	243.1255	44.9347	70.7306	46.4518	Gemini North	GMOS-N	GN-2017B-Q-75
16132830-2013405	6245397122905040000	243.3679	-20.2279	354.2467	21.9276	Gemini South	GMOS-S	GS-2014A-Q-74
16134375-2517381	6049518065566679040	243.4323	-25.2940	350.3364	18.4341	Gemini South	GMOS-S	GS-2014A-Q-74
16135700-2757099	6042198238705334144	243.4876	-27.9528	348.3618	16.5565	Gemini South	GMOS-S	GS-2014A-Q-8
16141120-2033379	6244625270041451648	243.5467	-20.5605	354.1028	21.5799	Gemini South	GMOS-S	GS-2014A-Q-8
16150157-2339354	6050327233103808768	243.7566	-23.6599	351.8080	19.3390	Gemini South	GMOS-S	GS-2014A-Q-8
16150863-0734143	4348947961102169344	243.7860	-7.5706	5.3411	29.7363	Gemini South	GMOS-S	GS-2017A-Q-86
16154084+3326445	1322837974275568384	243.9202	33.4457	54.1051	45.8933	Gemini North	GMOS-N	GN-2017B-Q-75
16154634-1423377	4329332948541070976	243.9431	-14.3939	359.4389	25.3518	Gemini South	GMOS-S	GS-2015A-Q-77
16154808-2355376	6050304972294952064	243.9503	-23.9271	351.7286	19.0272	Gemini South	GMOS-S	GS-2014A-Q-74
16154986-0751166	4345832009572003840	243.9578	-7.8546	5.2000	29.4288	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
16163380+4615010	1386708295494907904	244.1408	46.2502	72.4896	45.5893	Gemini North	GMOS-N	GN-2017B-Q-75
16163935-3233268	6035641953958688896	244.1640	-32.5575	345.3794	12.9195	Gemini South	GMOS-S	GS-2017A-Q-86
16164213-3256588	6035579999042793856	244.1755	-32.9497	345.0995	12.6372	Gemini South	GMOS-S	GS-2014A-Q-74
16165205-2154235	6242759089572065920	244.2169	-21.9066	353.4851	20.2129	Gemini South	GMOS-S	GS-2014A-Q-74
16171415+1832404	1200608324633174784	244.3090	18.5445	33.9855	42.1341	Gemini North	GMOS-N	GN-2015A-Q-76
16173056-1932253	6245550268557026432	244.3774	-19.5404	355.4804	21.6788	Gemini South	GMOS-S	GS-2015A-Q-77
16173244+0248331	4436119304542479616	244.3852	2.8092	15.8869	35.1277	Gemini North	GMOS-N	GN-2017B-Q-75
16173704+3125396	1319323522796448512	244.4044	31.4277	51.3163	45.2388	Gemini North	GMOS-N	GN-2017B-Q-75
16175168-3344503	6023449568284510592	244.4654	-33.7473	344.6921	11.9050	Gemini South	GMOS-S	GS-2014A-Q-8
16175506-2501165	6048881207813795456	244.4794	-25.0213	351.2286	17.9299	Gemini South	GMOS-S	GS-2014A-Q-74
16180650-1903385	6245955610391354880	244.5271	-19.0607	355.9689	21.8893	Gemini South	GMOS-S	GS-2015A-Q-92
16194310-0224311	4358730552275110272	244.9296	-2.4086	10.9914	31.8317	Gemini South	GMOS-S	GS-2016A-Q-76
16195744+3711488	1330482668168550016	244.9893	37.1969	59.5459	45.3052	Gemini North	GMOS-N	GN-2018A-Q-403
16201273+8036085	1710329438388205824	245.0533	80.6024	114.1221	32.6119	Gemini North	GMOS-N	GN-2019A-Q-309
16201770+4208508	1382053238141320192	245.0738	42.1474	66.5843	45.2579	Gemini North	GMOS-N	GN-2018A-Q-403
16202566+0328284	4436260965440303232	245.1069	3.4745	17.0375	34.8571	Gemini North	GMOS-N	GN-2015A-Q-76
16203416+3132541	1319232263331506304	245.1424	31.5484	51.6133	44.6336	Gemini North	GMOS-N	GN-2015A-Q-76
16203444-2056578	6244454330343783936	245.1435	-20.9494	354.8581	20.2077	Gemini South	GMOS-S	GS-2014A-Q-8
16204714-2606162	6048548399391137152	245.1964	-26.1045	350.8550	16.7196	Gemini South	GMOS-S	GS-2014A-Q-8
16204887+7014507	1652927273492300160	245.2036	70.2474	103.1391	37.7999	Gemini North	GMOS-N	GN-2019A-Q-309
16211341+3512582	1329412882010974976	245.3059	35.2162	56.7689	44.9202	Gemini North	GMOS-N	GN-2016A-Q-75
16213044-7002350	5807311386428745984	245.3768	-70.0431	319.1485	-14.1082	Gemini South	GMOS-S	GS-2016A-Q-76
16213929-7135317	5806920991081963136	245.4138	-71.5922	317.9880	-15.1756	Gemini South	GMOS-S	GS-2017A-Q-86
16220240+0700378	4439734017734002944	245.5100	7.0105	21.0547	36.2672	Gemini North	GMOS-N	GN-2019A-Q-309
16221768+1134274	4459979806371200512	245.5737	11.5743	26.1967	38.2922	Gemini North	GMOS-N	GN-2016A-Q-75
16224822+5100127	1423692705557972992	245.7009	51.0036	78.8790	43.8416	Gemini North	GMOS-N	GN-2015A-Q-76
16225698-3234118	6025040458531718016	245.7373	-32.5700	346.3139	11.9572	Gemini South	GMOS-S	GS-2015A-Q-77
16231806-3110431	6037281562002354048	245.8252	-31.1787	347.4021	12.8583	Gemini South	GMOS-S	GS-2014A-Q-74
16232673+0535156	4437155113207686400	245.8615	5.5875	19.7309	35.2705	Gemini North	GMOS-N	GN-2019A-Q-309
16234350+2958278	1318193396641660544	245.9313	29.9744	49.5999	43.7104	Gemini North	GMOS-N	GN-2019A-Q-309
16241901+0630059	4439457593640443392	246.0792	6.5017	20.8397	35.5268	Gemini North	GMOS-N	GN-2016A-Q-75
16243746+8055162	1710372289277885440	246.1562	80.9212	114.3254	32.2901	Gemini North	GMOS-N	GN-2019A-Q-309
16244834+1804359	4467003074331962880	246.2015	18.0767	34.2353	40.2870	Gemini North	GMOS-N	GN-2016A-Q-75
16251518+0520267	4437084641390808960	246.3133	5.3407	19.7390	34.7575	Gemini North	GMOS-N	GN-2019A-Q-309
16253573-0834395	4350830702966299648	246.3989	-8.5777	6.1911	27.0629	Gemini South	GMOS-S	GS-2017A-Q-86
16254695-3354120	6023951392267153408	246.4456	-33.9033	345.7402	10.6111	Gemini South	GMOS-S	GS-2014A-Q-8
16254871-1359117	4328986293140183680	246.4530	-13.9866	1.4778	23.7251	Gemini South	GMOS-S	GS-2016A-Q-76
16260791-2025280	6052684487252718080	246.5330	-20.4245	356.1854	19.5693	Gemini South	GMOS-S	GS-2014A-Q-74
16260857+3126550	1324425389891741696	246.5357	31.4486	51.7260	43.4442	Gemini North	GMOS-N	GN-2019A-Q-309
16263668-0628581	4352076965036319872	246.6528	-6.4828	8.2699	28.0909	Gemini South	GMOS-S	GS-2015A-Q-92
16270418+0322290	4433540296934619520	246.7675	3.3747	17.9577	33.3815	Gemini North	GMOS-N	GN-2016A-Q-75
16272230+3655279	1331122622592397568	246.8429	36.9244	59.2849	43.8127	Gemini North	GMOS-N	GN-2015A-Q-76

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
16272250-0848362	4350762533245253632	246.8438	-8.8101	6.2745	26.5710	Gemini South	GMOS-S	GS-2016A-Q-76
16272730-1210551	4331507503365927680	246.8638	-12.1820	3.3046	24.5237	Gemini South	GMOS-S	GS-2016A-Q-76
16272732+1123305	4459078580497051136	246.8639	11.3918	26.6772	37.0729	Gemini North	GMOS-N	GN-2016A-Q-75
16274702-3314031	6024841279438699008	246.9460	-33.2342	346.5275	10.7627	Gemini South	GMOS-S	GS-2014A-Q-8
16283300+1722329	4467079971426476160	247.1375	17.3758	33.7974	39.2041	Gemini North	GMOS-N	GN-2016A-Q-75
16290198+1430507	4463821083383973760	247.2583	14.5141	30.4638	38.0131	Gemini North	GMOS-N	GN-2019A-Q-309
16293666+0213503	4432101100636150400	247.4027	2.2306	17.1742	32.2510	Gemini North	GMOS-N	GN-2017B-Q-75
16300807+3459161	1326275047622823552	247.5330	34.9880	56.6958	43.0846	Gemini North	GMOS-N	GN-2015A-Q-76
16302614-3342496	6024015541893607808	247.6090	-33.7138	346.5493	10.0310	Gemini South	GMOS-S	GS-2014A-Q-8
16303876+1329513	4460685211799513600	247.6615	13.4976	29.4862	37.2470	Gemini North	GMOS-N	GN-2017B-Q-75
16305318+4405187	1405543067118031488	247.7216	44.0886	69.1846	43.2495	Gemini North	GMOS-N	GN-2016A-Q-75
16312561+1408014	4460744722866525824	247.8567	14.1338	30.3140	37.3298	Gemini North	GMOS-N	GN-2015A-Q-76
16320549+0401083	4433503532014896512	248.0229	4.0190	19.3730	32.6226	Gemini North	GMOS-N	GN-2019A-Q-309
16322157+1615449	4465786018039320320	248.0899	16.2625	32.9026	37.9465	Gemini North	GMOS-N	GN-2016A-Q-75
16323169+1555079	4465571613272013440	248.1320	15.9189	32.5188	37.7795	Gemini North	GMOS-N	GN-2019A-Q-309
16325211-8327479	5768596864756350976	248.2171	-83.4633	308.7844	-23.2926	Gemini South	GMOS-S	GS-2016A-Q-76
16325439-7525259	5781162663455262080	248.2267	-75.4239	315.5297	-18.3015	Gemini South	GMOS-S	GS-2015A-Q-92
16333188+5906052	1623752935039977088	248.3829	59.1014	89.0805	40.5400	Gemini North	GMOS-N	GN-2016A-Q-75
16341169+4636439	1407185565691196672	248.5488	46.6122	72.5809	42.5308	Gemini North	GMOS-N	GN-2015A-Q-76
16342046+1157567	4459450868260931456	248.5853	11.9657	28.2157	35.7923	Gemini North	GMOS-N	GN-2018A-Q-403
16343097+0620345	4438931438666007296	248.6291	6.3429	22.1417	33.2265	Gemini North	GMOS-N	GN-2019A-Q-309
16344239+2231419	1298095453661818880	248.6767	22.5282	40.7080	39.5369	Gemini North	GMOS-N	GN-2016A-Q-75
16350481+1137192	4459250349123575808	248.7700	11.6220	27.9269	35.4828	Gemini North	GMOS-N	GN-2015A-Q-76
16352407-3359508	6024133674994546944	248.8503	-33.9975	347.0358	9.0755	Gemini South	GMOS-S	GS-2014A-Q-8
16353942+1442022	4462370655749089792	248.9143	14.7006	31.4730	36.6137	Gemini North	GMOS-N	GN-2019A-Q-309
16354720+1246210	4459657718184334720	248.9467	12.7725	29.3012	35.8082	Gemini North	GMOS-N	GN-2019A-Q-309
16360774+5058387	1411871031413851648	249.0323	50.9775	78.3969	41.7744	Gemini North	GMOS-N	GN-2016A-Q-75
16373418+3852001	1331616986212008192	249.3925	38.8667	62.1109	41.9335	Gemini North	GMOS-N	GN-2016A-Q-75
16374852+0734375	4439132546216071296	249.4522	7.5771	23.9011	33.0839	Gemini North	GMOS-N	GN-2015A-Q-76
16382363-6644037	5815570715927353216	249.5985	-66.7344	322.7520	-13.0676	Gemini South	GMOS-S	GS-2017A-Q-86
16383378+0540276	4435778760872577024	249.6408	5.6743	22.0139	32.0233	Gemini North	GMOS-N	GN-2019A-Q-309
16384693+1812116	4562485587504234880	249.6956	18.2032	35.8881	37.2242	Gemini North	GMOS-N	GN-2016A-Q-75
16385168+1723396	4466157103214240256	249.7153	17.3943	34.9497	36.9173	Gemini North	GMOS-N	GN-2016A-Q-75
16385848+3000087	1311872265637358336	249.7436	30.0024	50.4744	40.4728	Gemini North	GMOS-N	GN-2016A-Q-75
16391895+0338467	4434135338883534336	249.8290	3.6463	20.0437	30.8731	Gemini North	GMOS-N	GN-2015A-Q-76
16393846+0740507	4445130901837683584	249.9103	7.6808	24.2604	32.7289	Gemini North	GMOS-N	GN-2019A-Q-309
16394169+4228154	1356989076015732864	249.9237	42.4710	66.9635	41.6678	Gemini North	GMOS-N	GN-2016A-Q-75
16394396+4249163	1357571404861995136	249.9332	42.8212	67.4325	41.6644	Gemini North	GMOS-N	GN-2016A-Q-75
16402468+1550407	4462850115836027648	250.1029	15.8447	33.3319	35.9974	Gemini North	GMOS-N	GN-2015A-Q-76
16413086+2631045	1301433231662419840	250.3786	26.5179	46.2187	39.1420	Gemini North	GMOS-N	GN-2019A-Q-309
16414836+1216122	4460825777486994048	250.4516	12.2700	29.4871	34.2632	Gemini North	GMOS-N	GN-2015A-Q-76
16420651+2604225	1301214463209079040	250.5271	26.0729	45.7084	38.8999	Gemini North	GMOS-N	GN-2018A-Q-403

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
16421928+2344032	1299750291677336960	250.5803	23.7342	42.8477	38.2158	Gemini North	GMOS-N	GN-2019A-Q-309
16423938-8306366	5768700008393198464	250.6643	-83.1102	309.2785	-23.3163	Gemini South	GMOS-S	GS-2016A-Q-76
16430853+0426005	4434657430811775232	250.7856	4.4335	21.3845	30.4262	Gemini North	GMOS-N	GN-2019A-Q-309
16432853+1024103	4446900634521443584	250.8689	10.4029	27.6652	33.0988	Gemini North	GMOS-N	GN-2019A-Q-309
16435657+3232386	1314234398867571072	250.9857	32.5441	54.0014	39.9008	Gemini North	GMOS-N	GN-2019A-Q-309
16440315+1154212	4448745095340450944	251.0132	11.9059	29.3649	33.6119	Gemini North	GMOS-N	GN-2015A-Q-76
16443996-7951474	5775442729091999616	251.1664	-79.8632	312.1943	-21.5044	Gemini South	GMOS-S	GS-2016A-Q-76
16461012+3554551	1327313154102801664	251.5422	35.9153	58.4382	39.9504	Gemini North	GMOS-N	GN-2016A-Q-75
16462075+1719330	4559215674287937536	251.5865	17.3259	35.6738	35.2285	Gemini North	GMOS-N	GN-2019A-Q-309
16462090+0333477	4433981853933019264	251.5871	3.5633	20.9569	29.3042	Gemini North	GMOS-N	GN-2015A-Q-76
16464088+0311203	4385915672332609280	251.6703	3.1890	20.6299	29.0484	Gemini North	GMOS-N	GN-2019A-Q-309
16471020+5015587	1412373954904373760	251.7925	50.2663	77.2155	40.1085	Gemini North	GMOS-N	GN-2015A-Q-76
16472419+1507161	4461858837385161088	251.8508	15.1212	33.3048	34.1646	Gemini North	GMOS-N	GN-2016A-Q-75
16472795+2336019	1299862235704972928	251.8665	23.6006	43.1186	37.0499	Gemini North	GMOS-N	GN-2016A-Q-75
16474061+1340279	4461395668115705344	251.9192	13.6744	31.7358	33.5324	Gemini North	GMOS-N	GN-2016A-Q-75
16482585+4245290	1356678949313407360	252.1077	42.7581	67.3926	40.0678	Gemini North	GMOS-N	GN-2015A-Q-76
16483067+5232124	1413923647824211456	252.1278	52.5368	80.1359	39.6851	Gemini North	GMOS-N	GN-2019A-Q-309
16485963+2050021	45647671112786411648	252.2484	20.8339	39.9853	35.8549	Gemini North	GMOS-N	GN-2016A-Q-75
16491646+1922215	4562883030895304960	252.3186	19.3726	38.3194	35.3028	Gemini North	GMOS-N	GN-2019A-Q-309
16492419+1810509	4559694756410004480	252.3507	18.1805	36.9680	34.8573	Gemini North	GMOS-N	GN-2019A-Q-309
16501693+3227048	1314079917484186880	252.5706	32.4514	54.1905	38.5689	Gemini North	GMOS-N	GN-2018A-Q-403
16501966+2135346	4565674033785572096	252.5819	21.5930	40.9952	35.8058	Gemini North	GMOS-N	GN-2016A-Q-75
16505552+5951110	1438058374730240256	252.7313	59.8530	89.3675	38.2182	Gemini North	GMOS-N	GN-2015A-Q-76
16510088+3648458	1351373148578890624	252.7536	36.8128	59.7525	39.0964	Gemini North	GMOS-N	GN-2016A-Q-75
16511460+5352298	1426065314211359488	252.8108	53.8749	81.7968	39.1273	Gemini North	GMOS-N	GN-2019B-Q-403
16514772+3844288	1352397519754683136	252.9488	38.7413	62.2453	39.1613	Gemini North	GMOS-N	GN-2016A-Q-75
16523005+0311543	4386055756985792640	253.1252	3.1985	21.4471	27.7859	Gemini North	GMOS-N	GN-2015A-Q-76
16534583+2531166	1306113268546500352	253.4410	25.5213	45.9217	36.2246	Gemini North	GMOS-N	GN-2016A-Q-75
16534773+3049290	1312862856894855040	253.4489	30.8247	52.3535	37.5142	Gemini North	GMOS-N	GN-2018A-Q-403
16545744+2603567	1306294683667797248	253.7393	26.0658	46.6613	36.1152	Gemini North	GMOS-N	GN-2015A-Q-76
16553977-8810318	5765193738828393600	253.9147	-88.1756	304.7118	-26.2341	Gemini South	GMOS-S	GS-2017A-Q-86
16563138+3921373	1352143528272068864	254.1308	39.3604	63.1548	38.3113	Gemini North	GMOS-N	GN-2019B-Q-403
16563406+1516544	4545782356611145728	254.1419	15.2818	34.5042	32.1877	Gemini North	GMOS-N	GN-2015A-Q-76
16574714+4326284	1358072923898101120	254.4461	43.4411	68.3670	38.3907	Gemini North	GMOS-N	GN-2015A-Q-76
16581141+4516190	1359217446784103296	254.5475	45.2719	70.7044	38.3895	Gemini North	GMOS-N	GN-2019B-Q-403
16583722+0153432	4384878175734959744	254.6551	1.8953	21.0105	25.8156	Gemini North	GMOS-N	GN-2015A-Q-76
16590140+2521558	4572761867992849920	254.7559	25.3655	46.1472	35.0413	Gemini North	GMOS-N	GN-2016A-Q-75
16591231-5353249	5935760874615991808	254.8016	-53.8907	334.5301	-6.9891	Gemini South	GMOS-S	GS-2015A-Q-77
17001311-7651059	5777695868934489600	255.0535	-76.8510	315.3336	-20.4624	Gemini South	GMOS-S	GS-2015A-Q-77
17024781+2559130	4573174150493770368	255.6992	25.9870	47.1646	34.4012	Gemini North	GMOS-N	GN-2017B-Q-75
17034238+4012376	1353472361090529536	255.9266	40.2104	64.4086	37.0299	Gemini North	GMOS-N	GN-2017B-Q-75
17034776+2709455	4573403428730280064	255.9490	27.1627	48.6099	34.5099	Gemini North	GMOS-N	GN-2018A-Q-403

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
17035954+4513186	1358789148349761152	255.9981	45.2218	70.6874	37.3671	Gemini North	GMOS-N	GN-2018A-Q-403
17041564+1932115	4560834812533156480	256.0651	19.5366	39.9728	32.0450	Gemini North	GMOS-N	GN-2019B-Q-403
17041979+6325224	1631229304871201024	256.0825	63.4229	93.3641	35.9579	Gemini North	GMOS-N	GN-2016A-Q-75
17042385+6726017	1636646151984790784	256.0994	67.4338	98.1761	35.0892	Gemini North	GMOS-N	GN-2016A-Q-75
17045983+1948039	4561595434057474304	256.2493	19.8011	40.3364	31.9743	Gemini North	GMOS-N	GN-2015A-Q-76
17054252-6742414	5814397399577566848	256.4271	-67.7115	323.5963	-15.7631	Gemini South	GMOS-S	GS-2016A-Q-76
17060632+6430248	1632107986461148928	256.5263	64.5069	94.6280	35.5566	Gemini North	GMOS-N	GN-2016A-Q-75
17095788+4825288	1414140487836898048	257.4912	48.4247	74.7334	36.4520	Gemini North	GMOS-N	GN-2019B-Q-403
17104782+4615401	1364943737701366144	257.6992	46.2611	72.0556	36.2316	Gemini North	GMOS-N	GN-2015A-Q-76
17115737+4056337	1341931337289579648	257.9890	40.9427	65.5366	35.5591	Gemini North	GMOS-N	GN-2016A-Q-75
17125716-2214215	4115322081195173248	258.2382	-22.2393	1.5789	9.8242	Gemini South	GMOS-S	GS-2014A-Q-8
17130596-3442468	5978819326162668288	258.2748	-34.7130	351.3705	2.5619	Gemini South	GMOS-S	GS-2014A-Q-8
17130931+4245360	1354380420256070272	258.2888	42.7601	67.7870	35.5412	Gemini North	GMOS-N	GN-2018A-Q-403
17133146+5029289	1414644171538142464	258.3811	50.4914	77.3036	35.9029	Gemini North	GMOS-N	GN-2018A-Q-403
17134640-2252270	4114531910303984896	258.4434	-22.8742	1.1600	9.3062	Gemini South	GMOS-S	GS-2014A-Q-74
17134904+4643336	1364979746707350016	258.4543	46.7260	72.6636	35.7373	Gemini North	GMOS-N	GN-2018A-Q-403
17151412-2251434	4114489441664092160	258.8089	-22.8621	1.3643	9.0362	Gemini South	GMOS-S	GS-2014A-Q-74
17154790-5232570	5925618184739644160	258.9496	-52.5492	337.1012	-8.2014	Gemini South	GMOS-S	GS-2016A-Q-76
17160251-2205199	4114972844488807680	259.0105	-22.0888	2.1164	9.3210	Gemini South	GMOS-S	GS-2015A-Q-77
17162512+4249078	1360187452261689472	259.1047	42.8188	67.9367	34.9523	Gemini North	GMOS-N	GN-2015A-Q-76
17163270+4302287	1360381309905667840	259.1363	43.0413	68.2098	34.9536	Gemini North	GMOS-N	GN-2016A-Q-75
17163966-8711235	5765345368353739392	259.1658	-87.1899	305.7941	-25.9700	Gemini South	GMOS-S	GS-2016A-Q-76
17174451+3653087	1339989290517076096	259.4354	36.8858	60.8694	33.8260	Gemini North	GMOS-N	GN-2018A-Q-403
17185527+3839047	1340720740627444096	259.7303	38.6514	63.0121	33.9050	Gemini North	GMOS-N	GN-2018A-Q-403
17192865-6853306	5811209090730279680	259.8694	-68.8919	323.2697	-17.4699	Gemini South	GMOS-S	GS-2015A-Q-77
17194406+4515228	1361644549983238272	259.9336	45.2563	70.9624	34.6048	Gemini North	GMOS-N	GN-2019B-Q-403
17212704+5033288	1414790574087583360	260.3627	50.5580	77.4157	34.6446	Gemini North	GMOS-N	GN-2016A-Q-75
17215395-6411338	5814091284361742976	260.4749	-64.1928	327.5914	-15.2455	Gemini South	GMOS-S	GS-2017A-Q-86
17215498+1423078	4543224965582361984	260.4791	14.3855	36.3144	26.2015	Gemini North	GMOS-N	GN-2018A-Q-403
17224220+0353126	4389167576754184192	260.6759	3.8868	26.0535	21.4799	Gemini North	GMOS-N	GN-2018A-Q-403
17234737-5834124	5916061474500671232	260.9474	-58.5701	332.6325	-12.4679	Gemini South	GMOS-S	GS-2015A-Q-77
17240759+3635398	1337102866336482688	261.0316	36.5944	60.8209	32.5148	Gemini North	GMOS-N	GN-2018A-Q-403
17251201-7832462	5776783519098670464	261.2999	-78.5462	314.4593	-22.4552	Gemini South	GMOS-S	GS-2017A-Q-86
17252775+5318307	1416272239020984576	261.3657	53.3086	80.7640	34.0890	Gemini North	GMOS-N	GN-2018A-Q-403
17254679-8513010	5767118193414597632	261.4445	-85.2170	307.8573	-25.2964	Gemini South	GMOS-S	GS-2017A-Q-86
17255611+1556131	4543997853536251264	261.4838	15.9370	38.3268	25.9203	Gemini North	GMOS-N	GN-2019B-Q-403
17265179+3527349	1335862475484040064	261.7158	35.4597	59.6472	31.7365	Gemini North	GMOS-N	GN-2016A-Q-75
17272663+3847099	1343578233909298816	261.8608	38.7861	63.5177	32.2917	Gemini North	GMOS-N	GN-2016A-Q-75
17283154-6945443	5810934625139045248	262.1314	-69.7623	322.8906	-18.5947	Gemini South	GMOS-S	GS-2015A-Q-77
17285162-6941036	5810941016050593536	262.2151	-69.6844	322.9775	-18.5830	Gemini South	GMOS-S	GS-2015A-Q-77
17285482-5720440	5919234390177666304	262.2284	-57.3456	334.0646	-12.3985	Gemini South	GMOS-S	GS-2016A-Q-76
17291858+7510248	1655949551783195520	262.3275	75.1736	106.6308	31.3777	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
17292254+0305472	4388901086920961024	262.3439	3.0964	26.1330	19.6383	Gemini North	GMOS-N	GN-2015A-Q-76
17293008+5534560	1421238419509501568	262.3753	55.5822	83.5052	33.5179	Gemini North	GMOS-N	GN-2017B-Q-75
17303697+0421414	4389421362079616512	262.6541	4.3615	27.4774	19.9486	Gemini North	GMOS-N	GN-2017B-Q-75
17314553+2843156	4598739479466205568	262.9397	28.7210	52.3989	29.0150	Gemini North	GMOS-N	GN-2016A-Q-75
17315874-5342306	5921618165752908928	262.9948	-53.7085	337.4620	-10.8670	Gemini South	GMOS-S	GS-2015A-Q-92
17330791+2548590	4594030404311114240	263.2830	25.8164	49.3580	27.8411	Gemini North	GMOS-N	GN-2016A-Q-75
17331311+1713463	4550007577936164864	263.3047	17.2295	40.3911	24.8082	Gemini North	GMOS-N	GN-2018A-Q-403
17331323+3152308	4601590066440260096	263.3052	31.8752	55.9743	29.5875	Gemini North	GMOS-N	GN-2019B-Q-403
17332654+2633432	4594840366419966208	263.3606	26.5620	50.1837	28.0092	Gemini North	GMOS-N	GN-2016A-Q-75
17333170+5456025	1420926742322768640	263.3821	54.9340	82.7385	32.9365	Gemini North	GMOS-N	GN-2016A-Q-75
17333194-5022586	5946394938738915584	263.3831	-50.3830	340.4648	-9.3252	Gemini South	GMOS-S	GS-2016A-Q-76
17334423+1911331	4553866722012938496	263.4344	19.1925	42.4515	25.4319	Gemini North	GMOS-N	GN-2016A-Q-75
17334679-6744028	5813027335062608384	263.4450	-67.7341	325.0095	-18.0527	Gemini South	GMOS-S	GS-2017A-Q-86
17335350+1815568	4550692088345948672	263.4729	18.2658	41.5156	25.0529	Gemini North	GMOS-N	GN-2018A-Q-403
17335522+1719221	4550032381370693376	263.4801	17.3228	40.5567	24.6891	Gemini North	GMOS-N	GN-2016A-Q-75
17355093+1411487	4542596697766095232	263.9622	14.1969	37.6130	23.0336	Gemini North	GMOS-N	GN-2019B-Q-403
17370392-7408233	5803200381170398336	264.2663	-74.1398	319.0587	-21.1662	Gemini South	GMOS-S	GS-2017A-Q-86
17371472+1603347	4549079418323779712	264.3113	16.0597	39.6189	23.4657	Gemini North	GMOS-N	GN-2015A-Q-76
17373165+0109351	4375387436181302912	264.3819	1.1598	25.3350	16.9322	Gemini North	GMOS-N	GN-2015A-Q-76
17374593-4903259	5946896105559051392	264.4413	-49.0572	341.9724	-9.2166	Gemini South	GMOS-S	GS-2017A-Q-86
17381613+1806130	4550553412442483456	264.5672	18.1037	41.7822	24.0289	Gemini North	GMOS-N	GN-2019B-Q-403
17382795+8319481	1711261033974731648	264.6165	83.3301	115.6847	29.0293	Gemini North	GMOS-N	GN-2016A-Q-75
17390078-7342041	5803233817494625536	264.7534	-73.7012	319.5460	-21.1023	Gemini South	GMOS-S	GS-2017A-Q-86
17390590+1504553	4548685209048009600	264.7746	15.0820	38.8351	22.6690	Gemini North	GMOS-N	GN-2015A-Q-76
17393096-5334586	5921761544627396352	264.8790	-53.5830	338.1559	-11.7617	Gemini South	GMOS-S	GS-2016A-Q-76
17412217-6605479	5812858972344007680	265.3424	-66.0966	326.8979	-17.9587	Gemini South	GMOS-S	GS-2015A-Q-77
17412978+2128403	4556052314917665920	265.3741	21.4779	45.5304	24.5694	Gemini North	GMOS-N	GN-2016A-Q-75
17415044+2448137	4581633552441283328	265.4602	24.8038	49.0054	25.6500	Gemini North	GMOS-N	GN-2018A-Q-403
17421570-5343061	5921703652781168768	265.5654	-53.7184	338.2431	-12.1819	Gemini South	GMOS-S	GS-2015A-Q-77
17422649+3217551	4601113221991774976	265.6104	32.2987	57.0410	27.8215	Gemini North	GMOS-N	GN-2018A-Q-403
17425789+0417381	4473307880166709248	265.7412	4.2939	28.8983	17.1797	Gemini North	GMOS-N	GN-2019B-Q-403
17431049+5633516	1421354113045323904	265.7937	56.5644	84.7158	31.6302	Gemini North	GMOS-N	GN-2019B-Q-403
17435113-5359333	5921684136450078592	265.9631	-53.9926	338.1167	-12.5209	Gemini South	GMOS-S	GS-2015A-Q-77
17442011+0827068	4488216467565808512	266.0838	8.4519	32.9700	18.7297	Gemini North	GMOS-N	GN-2018A-Q-403
17442313+1055585	4489909058337283584	266.0964	10.9329	35.3481	19.7861	Gemini North	GMOS-N	GN-2016A-Q-75
17451045+1600587	4501194587422903936	266.2935	16.0163	40.3894	21.6979	Gemini North	GMOS-N	GN-2019B-Q-403
17452465+0613284	4474168965270090368	266.3527	6.2246	30.9912	17.5069	Gemini North	GMOS-N	GN-2018A-Q-403
17452911+0549214	4474076782390335616	266.3713	5.8227	30.6231	17.3105	Gemini North	GMOS-N	GN-2015A-Q-76
17460256+1657355	4549397894441550848	266.5107	16.9599	41.4117	21.8781	Gemini North	GMOS-N	GN-2018A-Q-403
17465957+1519406	4501077351995658496	266.7482	15.3279	39.8990	21.0220	Gemini North	GMOS-N	GN-2016A-Q-75
17470290-5058143	5945699978662588416	266.7621	-50.9706	341.0550	-11.4681	Gemini South	GMOS-S	GS-2016A-Q-76
17471725-6723320	5812356121877182080	266.8219	-67.3922	325.9405	-19.0520	Gemini South	GMOS-S	GS-2016A-Q-76

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
17471835-0035363	4371256532336413056	266.8265	-0.5935	24.9271	13.9498	Gemini South	GMOS-S	GS-2016A-Q-76
17472373+5750230	1422587593292960640	266.8489	57.8397	86.2346	31.1099	Gemini North	GMOS-N	GN-2016A-Q-75
17473698+5229473	1368840406910596992	266.9042	52.4965	80.0233	30.7093	Gemini North	GMOS-N	GN-2016A-Q-75
17485598-7415094	5803007691756413056	267.2333	-74.2526	319.2992	-21.9506	Gemini South	GMOS-S	GS-2015A-Q-77
17493006+1616540	4501261550253801344	267.3753	16.2817	41.0931	20.8494	Gemini North	GMOS-N	GN-2018A-Q-403
17493192-5314272	5921036111776622592	267.3830	-53.2409	339.2080	-12.8965	Gemini South	GMOS-S	GS-2017A-Q-86
17505960+1845110	4551354475384137600	267.7484	18.7531	43.6819	21.4870	Gemini North	GMOS-N	GN-2018A-Q-403
17512033+4313226	1346347658884884608	267.8345	43.2230	69.5685	28.7120	Gemini North	GMOS-N	GN-2016A-Q-75
17513368+0735474	4475867611955393280	267.8903	7.5965	32.9860	16.7468	Gemini North	GMOS-N	GN-2018A-Q-403
17514375-8447409	5767473713627782016	267.9323	-84.7947	308.5138	-25.6774	Gemini South	GMOS-S	GS-2015A-Q-77
17515635+0549550	4473933497983061632	267.9848	5.8319	31.3820	15.8796	Gemini North	GMOS-N	GN-2016A-Q-75
17530760+0355502	4472708298435677312	268.2817	3.9306	29.7608	14.7578	Gemini North	GMOS-N	GN-2016A-Q-75
17531820-5828173	5918003040226875648	268.3258	-58.4715	334.6678	-15.7762	Gemini South	GMOS-S	GS-2016A-Q-76
17553087+1344549	4499700449901916672	268.8786	13.7486	39.2587	18.4954	Gemini North	GMOS-N	GN-2016A-Q-75
17563856-6259025	5911002106095737472	269.1607	-62.9840	330.5943	-18.0888	Gemini South	GMOS-S	GS-2016A-Q-76
17570985+6104567	1435424254107968896	269.2910	61.0824	90.0569	30.0062	Gemini North	GMOS-N	GN-2016A-Q-75
17580876-5017025	5947067839841987840	269.5365	-50.2840	342.5270	-12.6917	Gemini South	GMOS-S	GS-2016A-Q-76
17582442-5200036	5945364387093681024	269.6018	-52.0010	340.9784	-13.5132	Gemini South	GMOS-S	GS-2015A-Q-77
17583367+0851134	4476514330950969216	269.6403	8.8537	34.9532	15.7402	Gemini North	GMOS-N	GN-2018A-Q-403
17590214+0226114	4468887736043966848	269.7589	2.4365	29.0855	12.7636	Gemini North	GMOS-N	GN-2017B-Q-75
17593067+0547081	4474462912835838336	269.8779	5.7855	32.2112	14.1744	Gemini North	GMOS-N	GN-2015A-Q-76
17595240+0845349	4476464986070993664	269.9684	8.7597	35.0121	15.4075	Gemini North	GMOS-N	GN-2016A-Q-75
17595579+0402394	4469713473577956352	269.9825	4.0443	30.6588	13.2975	Gemini North	GMOS-N	GN-2015A-Q-76
18004880+4241389	2113828593508701696	270.2031	42.6936	69.4013	26.9051	Gemini North	GMOS-N	GN-2016A-Q-75
18012521+1607266	4501806912321934592	270.3551	16.1241	42.1569	18.1647	Gemini North	GMOS-N	GN-2016A-Q-75
18013011-6117020	6635006422507626880	270.3755	-61.2839	332.4692	-17.9067	Gemini South	GMOS-S	GS-2016A-Q-76
18015056-5628090	6651913342230612608	270.4607	-56.4692	337.0612	-15.9350	Gemini South	GMOS-S	GS-2017A-Q-86
18025682-7550189	6414540257944747008	270.7368	-75.8386	318.0342	-23.3533	Gemini South	GMOS-S	GS-2015A-Q-77
18033495+4211510	2113756098755468288	270.8956	42.1975	68.9946	26.2925	Gemini North	GMOS-N	GN-2016A-Q-75
18042621-7447453	6417661629719563264	271.1092	-74.7960	319.1422	-23.1096	Gemini South	GMOS-S	GS-2016A-Q-76
18042842-7051331	6431507302910109952	271.1185	-70.8592	323.1601	-21.8016	Gemini South	GMOS-S	GS-2017A-Q-86
18045298-5543550	6652206220339855104	271.2208	-55.7319	337.9426	-16.0058	Gemini South	GMOS-S	GS-2017A-Q-86
18045953+0826177	4476206639494994944	271.2481	8.4383	35.2851	14.1289	Gemini North	GMOS-N	GN-2016A-Q-75
18052892+0754210	4475421897432191616	271.3705	7.9058	34.8468	13.7863	Gemini North	GMOS-N	GN-2015B-Q-86
18062441-6457049	6629637992566177664	271.6026	-64.9518	329.1292	-19.8488	Gemini South	GMOS-S	GS-2016A-Q-76
18063457+0547198	4471868065390279680	271.6441	5.7888	33.0216	12.6039	Gemini North	GMOS-N	GN-2016A-Q-75
18072175+5952412	2158636960809774336	271.8407	59.8781	88.7772	28.6706	Gemini North	GMOS-N	GN-2017B-Q-75
18073369+5849547	2152484604840257280	271.8905	58.8319	87.5943	28.5423	Gemini North	GMOS-N	GN-2016B-Q-77
18082002-5104378	6702907209758894848	272.0835	-51.0772	342.5353	-14.4897	Gemini South	GMOS-S	GS-2016B-Q-80
18083624-6750220	6435985682492232320	272.1511	-67.8395	326.3388	-21.0953	Gemini South	GMOS-S	GS-2015A-Q-77
18085682-2106299	4094063947258804608	272.2368	-21.1083	9.4190	-0.6395	Gemini South	GMOS-S	GS-2014A-Q-8
18095421-6630506	6437097494904121600	272.4759	-66.5141	327.7151	-20.7494	Gemini South	GMOS-S	GS-2016A-Q-76

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
18100815-6731119	6436045915114732672	272.5340	-67.5200	326.7140	-21.1210	Gemini South	GMOS-S	GS-2017A-Q-86
18102490-7119083	6431254307857238784	272.6037	-71.3190	322.8651	-22.4086	Gemini South	GMOS-S	GS-2016A-Q-76
18123519-6033510	6635102251817906304	273.1465	-60.5648	333.7220	-18.8644	Gemini South	GMOS-S	GS-2015A-Q-77
18124977+5854462	2152380494834185984	273.2075	58.9129	87.7729	27.8750	Gemini North	GMOS-N	GN-2016B-Q-77
18135644+4824196	2122140905709563904	273.4852	48.4055	76.1877	25.9284	Gemini North	GMOS-N	GN-2016B-Q-77
18141754+1612114	4498809506188122624	273.5731	16.2032	43.5513	15.3760	Gemini North	GMOS-N	GN-2016A-Q-75
18145902+5852559	2152342188021376384	273.7459	58.8822	87.7782	27.5953	Gemini North	GMOS-N	GN-2018A-Q-403
18150365-3751206	6727766450449365248	273.7652	-37.8557	355.2089	-9.7156	Gemini South	GMOS-S	GS-2014A-Q-74
18162072-4725281	6707603223921252608	274.0863	-47.4245	346.5204	-14.1192	Gemini South	GMOS-S	GS-2015A-Q-77
18165208+6146498	2159095113561329024	274.2170	61.7805	91.0582	27.7118	Gemini North	GMOS-N	GN-2016A-Q-75
18171654+1311582	4485396250300800768	274.3189	13.1995	41.0476	13.4620	Gemini North	GMOS-N	GN-2018A-Q-403
18190641-6824118	6432812045255424128	274.7767	-68.4033	326.1108	-22.2046	Gemini South	GMOS-S	GS-2015A-Q-92
18191919-2029254	4091364130814956032	274.8300	-20.4904	11.1207	-2.4740	Gemini South	GMOS-S	GS-2014A-Q-8
18192007-5552473	6649365494611393920	274.8337	-55.8798	338.6485	-17.9261	Gemini South	GMOS-S	GS-2016A-Q-76
18193127-3713134	6728130968571404800	274.8804	-37.2204	356.1883	-10.2206	Gemini South	GMOS-S	GS-2014A-Q-74
18194826-5310564	6653631805885843200	274.9511	-53.1823	341.2882	-16.9569	Gemini South	GMOS-S	GS-2016A-Q-76
18203066-2016012	4091455699522188416	275.1278	-20.2670	11.4494	-2.6152	Gemini South	GMOS-S	GS-2014A-Q-8
18204921-3419480	4044557100560972800	275.2051	-34.3300	358.9308	-9.1641	Gemini South	GMOS-S	GS-2014A-Q-74
18211549+5653298	2150956936513301632	275.3146	56.8916	85.7084	26.4733	Gemini North	GMOS-N	GN-2016A-Q-75
18220774-7608090	6413638383531665664	275.5322	-76.1359	318.0782	-24.5509	Gemini South	GMOS-S	GS-2015A-Q-77
18223327-5258169	6653722004497397120	275.6386	-52.9714	341.6581	-17.2570	Gemini South	GMOS-S	GS-2016A-Q-76
18231998-3926193	6726604713316398336	275.8332	-39.4387	354.4896	-11.8638	Gemini South	GMOS-S	GS-2015A-Q-77
18232072-7312133	6418085663251356416	275.8364	-73.2037	321.2137	-23.8965	Gemini South	GMOS-S	GS-2016A-Q-76
18273263-5638304	6648380469631584128	276.8860	-56.6418	338.3346	-19.2646	Gemini South	GMOS-S	GS-2015A-Q-77
18274709+1732530	4522680968780032128	276.9462	17.5481	46.1950	12.9972	Gemini North	GMOS-N	GN-2017A-Q-82
18285509-3410250	6734946570607247360	277.2295	-34.1737	359.8230	-10.5966	Gemini South	GMOS-S	GS-2015A-Q-77
18293868-2010483	4092688806190705152	277.4112	-20.1801	12.5228	-4.4728	Gemini South	GMOS-S	GS-2014A-Q-8
18301354-4555101	6708532208165979392	277.5564	-45.9195	348.9436	-15.6845	Gemini South	GMOS-S	GS-2015A-Q-92
18302241-3955233	6723716880376076928	277.5934	-39.9232	354.6252	-13.2964	Gemini South	GMOS-S	GS-2017A-Q-86
18305087-6953306	6431994249123338240	277.7120	-69.8919	324.8775	-23.6243	Gemini South	GMOS-S	GS-2017A-Q-86
18311217+4103160	2110452925308798080	277.8007	41.0545	69.3521	21.0178	Gemini North	GMOS-N	GN-2017B-Q-75
18315993-6920161	6432068225640386432	277.9997	-69.3378	325.4903	-23.5812	Gemini South	GMOS-S	GS-2015A-Q-77
18321423-3829407	6726896461847358848	278.0593	-38.4946	356.1143	-13.0343	Gemini South	GMOS-S	GS-2014A-Q-8
18324025-6202554	6631161743881174400	278.1677	-62.0488	333.1007	-21.6336	Gemini South	GMOS-S	GS-2017A-Q-86
18334251+4115292	2110471101610527616	278.4272	41.2581	69.7179	20.6345	Gemini North	GMOS-N	GN-2016A-Q-75
18340800-5627514	6649667246135478144	278.5334	-56.4643	338.8379	-20.0593	Gemini South	GMOS-S	GS-2015A-Q-92
18352484-3639135	6733341416736455936	278.8535	-36.6538	358.1010	-12.8460	Gemini South	GMOS-S	GS-2015A-Q-77
18352710-4928306	6703851728906337152	278.8629	-49.4752	345.8479	-17.8363	Gemini South	GMOS-S	GS-2017A-Q-86
18354018-3948416	6723580609650147712	278.9174	-39.8116	355.1563	-14.1789	Gemini South	GMOS-S	GS-2015A-Q-92
18360814+1919587	4524742759245230592	279.0339	19.3330	48.7042	11.9459	Gemini North	GMOS-N	GN-2016A-Q-75
18361214-7333443	6418205892271978624	279.0506	-73.5623	321.0645	-24.8735	Gemini South	GMOS-S	GS-2015A-Q-92
18371329-3141091	4046640705089371136	279.3054	-31.6859	2.8720	-11.1024	Gemini South	GMOS-S	GS-2014A-Q-74

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
18373068-5538076	6649914292651257984	279.3778	-55.6355	339.8361	-20.2361	Gemini South	GMOS-S	GS-2015A-Q-92
18395804+4820336	2119887903305583104	279.9919	48.3427	77.3185	21.7326	Gemini North	GMOS-N	GN-2015B-Q-86
18404278-5822181	6636472453764175744	280.1783	-58.3717	337.1946	-21.4952	Gemini South	GMOS-S	GS-2015A-Q-77
18405632+5805144	2154314260908589184	280.2347	58.0874	87.5816	24.1175	Gemini North	GMOS-N	GN-2015B-Q-86
18411282-6105584	6632762873329420544	280.3035	-61.0996	334.3961	-22.3345	Gemini South	GMOS-S	GS-2016A-Q-76
18430593-7820300	6364899129015765248	280.7748	-78.3416	315.9278	-26.1061	Gemini South	GMOS-S	GS-2016A-Q-76
18462350-4939426	6656086710412617344	281.5980	-49.6619	346.3089	-19.5655	Gemini South	GMOS-S	GS-2016A-Q-76
18482959-4911163	6656206965197014272	282.1233	-49.1879	346.9033	-19.7331	Gemini South	GMOS-S	GS-2017A-Q-86
18490576-5304063	6651390073476420736	282.2740	-53.0685	343.0039	-21.0405	Gemini South	GMOS-S	GS-2017A-Q-86
18491122+4005588	2098297480667292160	282.2968	40.0997	69.6176	17.4812	Gemini North	GMOS-N	GN-2017B-Q-75
18512136+5319111	2146237458947371520	282.8390	53.3198	83.0018	21.4618	Gemini North	GMOS-N	GN-2016A-Q-75
18515139+7849432	2293311669034242432	282.9641	78.8286	110.4232	26.5533	Gemini North	GMOS-N	GN-2018A-Q-403
18523585+4032042	2103587162389240064	283.1494	40.5345	70.2889	17.0332	Gemini North	GMOS-N	GN-2015A-Q-76
18523981+4129288	2104473093882735104	283.1659	41.4914	71.2267	17.3692	Gemini North	GMOS-N	GN-2015A-Q-76
19024429+5351114	2134680487931467648	285.6847	53.8531	84.1009	20.0193	Gemini North	GMOS-N	GN-2016A-Q-75
19025533+4219090	2104015387809994496	285.7306	42.3192	72.7687	15.9045	Gemini North	GMOS-N	GN-2015B-Q-86
19032297-4757304	6662155460541591424	285.8457	-47.9585	348.9655	-21.6964	Gemini South	GMOS-S	GS-2015A-Q-92
19035178-5108429	6657682239223060736	285.9658	-51.1453	345.6860	-22.6653	Gemini South	GMOS-S	GS-2016A-Q-76
19044854+5029122	2133638842399952256	286.2023	50.4867	80.8546	18.5882	Gemini North	GMOS-N	GN-2015A-Q-76
19052503-7826440	6364286563599950592	286.3544	-78.4456	315.9259	-27.2330	Gemini South	GMOS-S	GS-2015A-Q-77
19055032-5206090	6656823172744784384	286.4597	-52.1025	344.7708	-23.2129	Gemini South	GMOS-S	GS-2017A-Q-86
19060062-5118110	6657644374791106304	286.5026	-51.3031	345.6178	-23.0313	SOAR	Goodman	SO-2019B-013
19060226-6310122	6438853483690577024	286.5094	-63.1700	332.9029	-25.6244	Gemini South	GMOS-S	GS-2015A-Q-77
19120066-6302562	6438895574370061568	288.0028	-63.0489	333.1572	-26.2713	SOAR	Goodman	SO-2019B-013
19131047+3313392	2043394428389668992	288.2936	33.2276	65.1023	10.3325	Gemini North	GMOS-N	GN-2016A-Q-75
19155183-4922541	6658254874322598016	288.9660	-49.3817	348.0803	-24.0638	Gemini South	GMOS-S	GS-2016A-Q-76
19155497+4038463	2101342715562410240	288.9790	40.6462	72.1919	13.0050	Gemini North	GMOS-N	GN-2015A-Q-76
19160765+4246319	2102705938181969408	289.0319	42.7756	74.2004	13.8530	Gemini North	GMOS-N	GN-2019B-Q-403
19184233+8121549	2295494715010792576	289.6764	81.3653	113.4025	25.7824	Gemini North	GMOS-N	GN-2015B-Q-86
19214950-7947382	6361002631604746752	290.4561	-79.7939	314.4066	-28.0094	Gemini South	GMOS-S	GS-2015A-Q-77
19232375+4720104	2129167334770344704	290.8489	47.3362	79.0321	14.5647	Gemini North	GMOS-N	GN-2015A-Q-76
19233833+4018284	2101121026531480960	290.9098	40.3079	72.5220	11.5328	Gemini North	GMOS-N	GN-2015A-Q-76
19242686+8215294	2295685828172114688	291.1115	82.2582	114.4193	25.7609	Gemini North	GMOS-N	GN-2015B-Q-86
19253278-2828581	6764789893132461568	291.3866	-28.4828	10.1540	-19.4782	Gemini South	GMOS-S	GS-2014A-Q-74
19275678+3601156	2049957756892384256	291.9866	36.0210	69.0116	8.8573	Gemini North	GMOS-N	GN-2015B-Q-86
19280042+4614069	2126804793521418112	292.0018	46.2352	78.3458	13.3850	Gemini North	GMOS-N	GN-2015A-Q-76
19281201-2900223	6764699423940862080	292.0501	-29.0062	9.8533	-20.2078	Gemini South	GMOS-S	GS-2016A-Q-76
19281988-6339344	6441410874720278272	292.0828	-63.6596	332.7183	-28.1600	Gemini South	GMOS-S	GS-2016A-Q-76
19333143+8023242	2295227331824267136	293.3811	80.3900	112.4989	24.9896	Gemini North	GMOS-N	GN-2016A-Q-75
19352572+5114261	2136022446171534848	293.8572	51.2406	83.5427	14.4346	Gemini North	GMOS-N	GN-2016A-Q-75
19375420+5750304	2238305511775896064	294.4759	57.8418	89.9154	16.8966	Gemini North	GMOS-N	GN-2017B-Q-75
19383369+4309290	2077979845822635648	294.6404	43.1581	76.3904	10.3318	Gemini North	GMOS-N	GN-2016A-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
19411203-4509560	6684605636852993408	295.3001	-45.1656	353.7149	-27.2929	SOAR	Goodman	SO-2019B-013
19423665+0502288	4290628386915732736	295.6527	5.0413	43.3605	-8.9889	Gemini North	GMOS-N	GN-2015B-Q-86
19433935+7749001	2291495585062080640	295.9139	77.8168	109.9487	23.7840	Gemini North	GMOS-N	GN-2017B-Q-79
19440238-4515172	6684633743118584064	296.0100	-45.2548	353.7317	-27.8006	SOAR	Goodman	SO-2019B-013
19460015-4844202	6671059481799424000	296.5006	-48.7389	349.9101	-28.7633	Gemini South	GMOS-S	GS-2015A-Q-92
19481329-4903448	6670987390771270912	297.0554	-49.0625	349.6109	-29.1746	SOAR	Goodman	SO-2019B-013
19491264+0358174	4242240117122573440	297.3027	3.9715	43.2049	-10.9452	Gemini North	GMOS-N	GN-2016B-Q-77
19493291+1245526	4305164750954492032	297.3872	12.7646	51.0107	-6.7182	Gemini North	GMOS-N	GN-2016A-Q-75
19501371-7714505	6365989359218055680	297.5571	-77.2474	317.1533	-29.6421	Gemini South	GMOS-S	GS-2017A-Q-86
19512662-5013221	6669955297247174784	297.8609	-50.2228	348.3767	-29.8566	Gemini South	GMOS-S	GS-2015A-Q-92
19523317+4918292	2086984326351707008	298.1382	49.3080	83.0673	11.1180	Gemini North	GMOS-N	GN-2016A-Q-75
19533677-4832517	6670382182636447104	298.4032	-48.5477	350.3471	-29.9765	SOAR	Goodman	SO-2019B-013
19545002+0803021	4298283770977735168	298.7085	8.0506	47.5226	-10.1837	Gemini North	GMOS-N	GN-2016A-Q-75
19550782+0003520	4237149584437046784	298.7826	0.0644	40.4025	-14.1023	Gemini North	GMOS-N	GN-2016B-Q-77
19552158-4613569	6671915382881993472	298.8399	-46.2325	353.0399	-29.9193	Gemini South	GMOS-S	GS-2015A-Q-77
19580641-5217166	...	299.5267	-52.2880	346.1300	-31.1220	SOAR	Goodman	SO-2019B-013
19583119+1403473	1807178962362590336	299.6300	14.0631	53.2494	-7.9494	Gemini North	GMOS-N	GN-2015B-Q-86
20000909-8240204	6347485957207236480	300.0377	-82.6724	310.9453	-29.0639	Gemini South	GMOS-S	GS-2015A-Q-77
20015470+1103254	4300772996581672704	300.4779	11.0571	51.0544	-10.1909	Gemini North	GMOS-N	GN-2016A-Q-75
20021812+0356003	4247387510856965504	300.5755	3.9335	44.7865	-13.8220	Gemini North	GMOS-N	GN-2016A-Q-75
20032253-1142028	4190620966764303488	300.8439	-11.7008	30.3114	-21.1958	Gemini South	GMOS-S	GS-2015A-Q-77
20035532-5028100	6667107184173771648	300.9805	-50.4695	348.3495	-31.8623	SOAR	Goodman	SO-2019B-013
20042821-0634042	4219932228775714816	301.1175	-6.5678	35.3672	-19.2177	Gemini South	GMOS-S	GS-2016A-Q-76
20052878-5431260	6473118900280458240	301.3699	-54.5239	343.5910	-32.3653	Gemini South	GMOS-S	GS-2016A-Q-76
20065053-0824044	4192486700559707136	301.7106	-8.4013	33.8938	-20.5545	Gemini South	GMOS-S	GS-2017A-Q-86
20065112-0135379	4235780417581602304	301.7130	-1.5940	40.3127	-17.4679	SOAR	Goodman	SO-2019B-013
20071356+0151191	4243611826586899200	301.8066	1.8556	43.5250	-15.9059	Gemini North	GMOS-N	GN-2016A-Q-75
20082836+1011584	4299755432926365184	302.1181	10.1995	51.1396	-12.0148	Gemini North	GMOS-N	GN-2018A-Q-403
20083729-1136333	6880822690942721024	302.1554	-11.6093	30.9802	-22.3237	Gemini South	GMOS-S	GS-2015A-Q-77
20111053-0042015	4236237642618470272	302.7939	-0.7004	41.6755	-17.9982	Gemini South	GMOS-S	GS-2017A-Q-86
20115949+0328555	4244395262980430592	302.9979	3.4821	45.6065	-16.1500	Gemini North	GMOS-N	GN-2017B-Q-75
20120663-1720171	6873767610163223552	303.0277	-17.3381	25.6085	-25.3912	Gemini South	GMOS-S	GS-2015A-Q-92
20121138-5616178	6471798631629401088	303.0474	-56.2716	341.5327	-33.3513	SOAR	Goodman	SO-2019B-013
20121853-1451042	6877707847518537088	303.0772	-14.8512	28.1552	-24.4669	Gemini South	GMOS-S	GS-2017A-Q-86
20124384+0008034	4236447546259730816	303.1826	0.1343	42.6416	-17.9410	Gemini North	GMOS-N	GN-2017B-Q-75
20125289+0124185	4242787188566429184	303.2204	1.4051	43.8286	-17.3604	Gemini North	GMOS-N	GN-2017B-Q-75
20125447-6143094	6442969093151242880	303.2269	-61.7192	335.0130	-33.2516	Gemini South	GMOS-S	GS-2015A-Q-92
20145497-0643013	4217089677680862080	303.7291	-6.7171	36.4607	-21.6052	Gemini South	GMOS-S	GS-2016A-Q-76
20152495-2220596	6852768686118280576	303.8540	-22.3500	20.6910	-27.9244	Gemini South	GMOS-S	GS-2014A-Q-74
20153131-5719468	6468635748993114112	303.8805	-57.3297	340.2547	-33.7916	Gemini South	GMOS-S	GS-2016A-Q-76
20160180-0523231	4217535808820767104	304.0075	-5.3897	37.8676	-21.2538	SOAR	Goodman	SO-2019B-013
20160744-0552554	4217300027997089280	304.0310	-5.8821	37.4078	-21.4978	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
20165001-1040388	6881177219022208512	304.2084	-10.6774	32.8214	-23.7578	Gemini South	GMOS-S	GS-2015A-Q-77
20165024+1403416	1803616579035764992	304.2094	14.0615	55.5962	-11.7426	Gemini North	GMOS-N	GN-2017B-Q-75
20174990-4403599	6673167103853359232	304.4580	-44.0666	356.2095	-33.5406	Gemini South	GMOS-S	GS-2016A-Q-76
20180356-1301215	6879502009977573504	304.5149	-13.0226	30.6170	-25.0069	Gemini South	GMOS-S	GS-2015A-Q-77
20185485-1428523	6876208079299850752	304.7285	-14.4812	29.2323	-25.7854	Gemini South	GMOS-S	GS-2016A-Q-76
20192202-6130149	6430979984003489024	304.8418	-61.5042	335.1983	-34.0338	SOAR	Goodman	SO-2019B-013
20194097-2922268	6797560699757276544	304.9207	-29.3741	13.3498	-30.9952	Gemini South	GMOS-S	GS-2014A-Q-8
20200915-4813436	6668894268525757696	305.0382	-48.2288	351.2585	-34.3250	Gemini South	GMOS-S	GS-2016A-Q-76
20203472-2757112	6846116468972086016	305.1447	-27.9531	15.0039	-30.7881	Gemini South	GMOS-S	GS-2017A-Q-86
20204659-1002234	6905253392633848960	305.1941	-10.0399	33.9051	-24.3634	Gemini South	GMOS-S	GS-2016A-Q-76
20205529-1340439	6876402624138104576	305.2304	-13.6790	30.2651	-25.9097	Gemini South	GMOS-S	GS-2015B-Q-71
20210974-6637116	6425821762641148800	305.2906	-66.6200	329.0582	-33.5941	Gemini South	GMOS-S	GS-2017A-Q-86
20214042-5350224	6472730429078350976	305.4184	-53.8396	344.4580	-34.7229	Gemini South	GMOS-S	GS-2016A-Q-76
20214109-5550310	6469232749446813824	305.4213	-55.8420	342.0229	-34.6840	SOAR	Goodman	SO-2019B-013
20214764-1610513	...	305.4485	-16.1809	27.7890	-27.0900	SOAR	Goodman	SO-2019B-013
20214838-2917466	6797535960745546624	305.4516	-29.2963	13.5841	-31.4196	Gemini South	GMOS-S	GS-2014A-Q-8
20231318-0728503	4216093593161355776	305.8050	-7.4807	36.7158	-23.7895	Gemini South	GMOS-S	GS-2015A-Q-77
20231543-2104080	6859284155805054848	305.8143	-21.0689	22.7713	-29.1972	Gemini South	GMOS-S	GS-2017A-Q-86
20232260-0807452	6906102627927525760	305.8442	-8.1293	36.0982	-24.1115	Gemini South	GMOS-S	GS-2015A-Q-77
20233743-1659533	6873254241311424896	305.9060	-16.9982	27.1264	-27.8069	Gemini South	GMOS-S	GS-2015A-Q-92
20235225-1628512	6873331791241472768	305.9677	-16.4809	27.6924	-27.6651	Gemini South	GMOS-S	GS-2016A-Q-76
20241045-6720324	6425543307024121088	306.0436	-67.3424	328.1432	-33.7635	Gemini South	GMOS-S	GS-2016A-Q-76
20242459-2529550	6848220487550880640	306.1025	-25.4986	18.0292	-30.8841	SOAR	Goodman	SO-2019B-013
20244286-2618599	6847828584672684416	306.1786	-26.3167	17.1420	-31.1943	Gemini South	GMOS-S	GS-2014A-Q-8
20244510-1605268	6874849529603646080	306.1879	-16.0908	28.1909	-27.7109	Gemini South	GMOS-S	GS-2016A-Q-76
20255659-4915524	6668166013871841536	306.4858	-49.2645	350.0553	-35.3292	Gemini South	GMOS-S	GS-2016A-Q-76
20263268-1025283	6904467555355890304	306.6362	-10.4246	34.1904	-25.8109	Gemini South	GMOS-S	GS-2015A-Q-77
20271323-1658595	6862731949391812992	306.8051	-16.9832	27.5101	-28.5977	Gemini South	GMOS-S	GS-2015A-Q-92
20273786-1444546	6875659938390010240	306.9077	-14.7485	29.8935	-27.8272	Gemini South	GMOS-S	GS-2017A-Q-86
20273791-2627414	6847786940670450944	306.9080	-26.4615	17.2040	-31.8614	Gemini South	GMOS-S	GS-2014A-Q-74
20274485-4223567	6679325159242871808	306.9369	-42.3991	358.4687	-35.1412	Gemini South	GMOS-S	GS-2016A-Q-76
20275301-5141137	6475211236547281152	306.9709	-51.6871	347.0855	-35.6745	Gemini South	GMOS-S	GS-2016A-Q-76
20275840-1556595	6874956658968640512	306.9934	-15.9499	28.6757	-28.3712	Gemini South	GMOS-S	GS-2016A-Q-76
20281482-5351378	6473996241838555392	307.0617	-53.8605	344.4090	-35.6915	Gemini South	GMOS-S	GS-2016A-Q-76
20284544-2638089	6847769863878031616	307.1897	-26.6362	17.0927	-32.1531	Gemini South	GMOS-S	GS-2014A-Q-74
20290062-2157354	6855992046192920960	307.2526	-21.9599	22.3261	-30.7578	Gemini South	GMOS-S	GS-2014A-Q-8
20290527-5059527	6475303698603197824	307.2720	-50.9980	347.9347	-35.8632	Gemini South	GMOS-S	GS-2016A-Q-76
20292008-4513468	6675597235006194432	307.3337	-45.2297	355.0431	-35.6892	Gemini South	GMOS-S	GS-2016A-Q-76
20293622-3652218	6694857444613732352	307.4009	-36.8727	5.2030	-34.7030	Gemini South	GMOS-S	GS-2016A-Q-76
20301912-2844399	6797804306004518400	307.5797	-28.7444	14.7997	-33.0659	Gemini South	GMOS-S	GS-2014A-Q-8
20313318-3054125	6796525780141266304	307.8883	-30.9035	12.3748	-33.8669	Gemini South	GMOS-S	GS-2014A-Q-8
20314518-5623277	6469004910021548672	307.9383	-56.3910	341.2571	-36.0553	Gemini South	GMOS-S	GS-2017A-Q-86

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
20331212-4200270	6679615950005226240	308.3006	-42.0075	359.0814	-36.1034	SOAR	Goodman	SO-2019B-013
20331607-5047126	6475629909958997376	308.3170	-50.7869	348.1927	-36.5233	Gemini South	GMOS-S	GS-2016A-Q-76
20351407-4625056	6674758921813508736	308.8087	-46.4183	353.6442	-36.7828	Gemini South	GMOS-S	GS-2016A-Q-76
20354257-0714557	6907591641550947072	308.9274	-7.2488	38.4748	-26.4555	Gemini South	GMOS-S	GS-2015A-Q-77
20373334-3645452	6683227639544432512	309.3889	-36.7626	5.6608	-36.2542	Gemini South	GMOS-S	GS-2014A-Q-74
20375779-2518252	6800352497219577728	309.4909	-25.3070	19.3213	-33.7499	Gemini South	GMOS-S	GS-2014A-Q-74
20381947-2750475	6798666258699212672	309.5811	-27.8466	16.3996	-34.5301	Gemini South	GMOS-S	GS-2014A-Q-8
20385050-2657542	6799133551141107712	309.7104	-26.9651	17.4671	-34.4053	Gemini South	GMOS-S	GS-2015A-Q-77
20404939-5843259	6455696764877344896	310.2058	-58.7239	338.2068	-37.0110	SOAR	Goodman	SO-2019B-013
20410627-3251350	6792327226270824832	310.2762	-32.8598	10.5849	-36.2737	Gemini South	GMOS-S	GS-2014A-Q-8
20414841-5237274	6471501763492187520	310.4518	-52.6243	345.8276	-37.7771	Gemini South	GMOS-S	GS-2016A-Q-76
20430947-3600325	6779175490951538560	310.7895	-36.0090	6.8101	-37.2497	Gemini South	GMOS-S	GS-2017A-Q-86
20440973-2940093	6795239665071836160	311.0406	-29.6693	14.6231	-36.2216	Gemini South	GMOS-S	GS-2017A-Q-86
20442721-7405038	6369772538209241216	311.1133	-74.0844	319.7990	-33.6442	Gemini South	GMOS-S	GS-2016A-Q-76
20443065-2936534	6795263648167892992	311.1278	-29.6148	14.7107	-36.2828	Gemini South	GMOS-S	GS-2014A-Q-8
20445501-3732403	6778221802053181824	311.2292	-37.5445	4.9575	-37.8187	Gemini South	GMOS-S	GS-2017A-Q-86
20451053-2934207	6795077693263710080	311.2939	-29.5724	14.8036	-36.4133	Gemini South	GMOS-S	GS-2015A-Q-77
20460102+1506250	1762690140608564480	311.5043	15.1069	60.5339	-17.0411	Gemini North	GMOS-N	GN-2018A-Q-403
20461039-3940468	6678691295087392640	311.5433	-39.6797	2.2997	-38.3093	Gemini South	GMOS-S	GS-2017A-Q-86
20461191-3833114	6681901765961577344	311.5496	-38.5532	3.7265	-38.1932	Gemini South	GMOS-S	GS-2014A-Q-8
20465470-3948150	6678675249089470464	311.7280	-39.8042	2.1594	-38.4628	Gemini South	GMOS-S	GS-2015A-Q-77
20474129-4949312	6480909150618081536	311.9221	-49.8254	349.3244	-38.8519	Gemini South	GMOS-S	GS-2015A-Q-77
20480642-3520259	6779625977182979328	312.0268	-35.3406	7.8411	-38.1391	Gemini South	GMOS-S	GS-2016B-Q-81
20485047-7341446	6370159673678547712	312.2102	-73.6957	320.1125	-34.0636	Gemini South	GMOS-S	GS-2017A-Q-86
20485505-4125356	6678289698465087232	312.2294	-41.4265	0.1271	-38.9756	Gemini South	GMOS-S	GS-2016A-Q-76
20490816-2214501	6807184278357672576	312.2840	-22.2473	23.7981	-35.2623	Gemini South	GMOS-S	GS-2017A-Q-86
20492765-5124440	6477616903566840064	312.3652	-51.4122	347.2658	-39.0363	Gemini South	GMOS-S	GS-2015A-Q-92
20504877+1007551	1751382561168000256	312.7031	10.1320	56.9193	-20.8407	Gemini North	GMOS-N	GN-2016A-Q-75
20512785-4843325	6481344866460154880	312.8661	-48.7257	350.7058	-39.5168	Gemini South	GMOS-S	GS-2016A-Q-76
20523629-5241033	6477303675894157824	313.1512	-52.6843	345.5746	-39.4037	Gemini South	GMOS-S	GS-2017A-Q-86
20530472-3836380	6774883405575766400	313.2697	-38.6106	3.8368	-39.5364	SOAR	Goodman	SO-2019B-013
20531334-4520139	6484187516335125760	313.3056	-45.3372	355.1009	-39.8911	Gemini South	GMOS-S	GS-2015A-Q-92
20531555+1147415	1757847139781935616	313.3148	11.7949	58.7453	-20.3878	Gemini North	GMOS-N	GN-2017B-Q-75
20541462-4811494	6481473440600905472	313.5609	-48.1971	351.3660	-40.0007	Gemini South	GMOS-S	GS-2017A-Q-86
20545308-4710289	6481731516596154368	313.7212	-47.1747	352.6956	-40.1483	Gemini South	GMOS-S	GS-2015A-Q-92
20555702-3912091	6774608463246378880	313.9875	-39.2025	3.1341	-40.1459	Gemini South	GMOS-S	GS-2015A-Q-77
20565365-5609461	6457897089506392064	314.2236	-56.1629	340.9995	-39.5451	Gemini South	GMOS-S	GS-2015A-Q-92
20571292-4958553	6478163463924318208	314.3038	-49.9820	348.9937	-40.3727	Gemini South	GMOS-S	GS-2017A-Q-86
20574855-4154444	6677344182887180800	314.4524	-41.9122	359.6092	-40.6592	Gemini South	GMOS-S	GS-2017A-Q-86
20575772-5637258	6457695677015968384	314.4905	-56.6239	340.3770	-39.6099	Gemini South	GMOS-S	GS-2015A-Q-92
20580267+1427040	1761667216837966848	314.5112	14.4511	61.7658	-19.7828	Gemini North	GMOS-N	GN-2016A-Q-75
20585673-4013142	6773745346616608000	314.7365	-40.2206	1.8524	-40.7926	Gemini South	GMOS-S	GS-2015A-Q-77

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
20590249+1847021	1765354016765575680	314.7604	18.7839	65.5668	-17.3639	Gemini North	GMOS-N	GN-2015B-Q-86
20592599-4724182	6483013375355411200	314.8583	-47.4051	352.3504	-40.9093	Gemini South	GMOS-S	GS-2017A-Q-86
20595162-4937337	6478288460356702464	314.9651	-49.6260	349.4139	-40.8279	Gemini South	GMOS-S	GS-2017A-Q-86
21011036-4537322	6483420263376508032	315.2932	-45.6256	354.6937	-41.2803	Gemini South	GMOS-S	GS-2016A-Q-76
21011096-4148546	6581257453716372352	315.2957	-41.8152	359.7650	-41.2839	Gemini South	GMOS-S	GS-2016A-Q-76
21014399-4913588	6478323339786839168	315.4333	-49.2331	349.8978	-41.1650	Gemini South	GMOS-S	GS-2016A-Q-76
21032352-4211400	6581180590980731520	315.8480	-42.1945	359.2713	-41.7026	Gemini South	GMOS-S	GS-2015A-Q-77
21032466-7254213	6370267975574142592	315.8528	-72.9059	320.5214	-35.3307	SOAR	Goodman	SO-2019B-013
21032961-7321324	6370238112664426624	315.8734	-73.3590	320.0114	-35.1522	Gemini South	GMOS-S	GS-2016A-Q-76
21042794-4710017	6480078194704569088	316.1165	-47.1671	352.6012	-41.7751	Gemini South	GMOS-S	GS-2017A-Q-86
21051884-6831537	6376679571472808064	316.3285	-68.5316	325.4555	-37.1555	Gemini South	GMOS-S	GS-2016A-Q-76
21054066-4520565	6483621714522704128	316.4194	-45.3491	355.0269	-42.0790	Gemini South	GMOS-S	GS-2016A-Q-76
21080234+1835409	1788340995265967488	317.0097	18.5947	66.7980	-19.1553	Gemini North	GMOS-N	GN-2016A-Q-75
21091442-4721520	6480023214826621696	317.3101	-47.3645	352.2549	-42.5683	Gemini South	GMOS-S	GS-2016A-Q-76
21092218-4250491	6580163542725955840	317.3424	-42.8470	358.3936	-42.8059	Gemini South	GMOS-S	GS-2016A-Q-76
21094841-5600060	6463024322681098368	317.4517	-56.0017	340.7479	-41.3433	SOAR	Goodman	SO-2019B-013
21095801+1725439	1788003032879354752	317.4917	17.4289	66.1366	-20.2422	Gemini North	GMOS-N	GN-2015B-Q-86
21102133+3016061	1852687405024593024	317.5888	30.2683	76.4046	-12.0093	Gemini North	GMOS-N	GN-2015B-Q-86
21105535+2140380	1790165875330692352	317.7299	21.6772	69.7624	-17.7230	Gemini North	GMOS-N	GN-2016B-Q-77
21110533-4239222	6580263048527430400	317.7722	-42.6562	358.6489	-43.1238	Gemini South	GMOS-S	GS-2016A-Q-76
21111175-4126536	6581456534040000128	317.7990	-41.4482	0.3041	-43.1482	Gemini South	GMOS-S	GS-2015A-Q-77
21114008-5138220	6476892256683323008	317.9170	-51.6395	346.4333	-42.4391	SOAR	Goodman	SO-2019B-013
21115127-5257071	6464688708407259008	317.9636	-52.9520	344.6766	-42.2436	Gemini South	GMOS-S	GS-2016A-Q-76
21120163+2520001	1841468911788506112	318.0068	25.3334	72.8379	-15.5436	Gemini North	GMOS-N	GN-2015B-Q-86
21125173+2110327	1790077841384173312	318.2156	21.1758	69.6644	-18.3915	Gemini North	GMOS-N	GN-2016A-Q-75
21134390-6802355	6399985335331112064	318.4330	-68.0432	325.6540	-38.0609	Gemini South	GMOS-S	GS-2016A-Q-76
21145602+2112242	1791382721170477824	318.7334	21.2067	70.0184	-18.7400	Gemini North	GMOS-N	GN-2015B-Q-86
21150824+2631245	1847680160351457024	318.7844	26.5235	74.2443	-15.2833	Gemini North	GMOS-N	GN-2015B-Q-86
21151790-4333404	6579952677010742272	318.8246	-43.5612	357.3729	-43.8671	Gemini South	GMOS-S	GS-2017A-Q-86
21154971-6848520	6375872461218303488	318.9572	-68.8145	324.6596	-37.9272	Gemini South	GMOS-S	GS-2017A-Q-86
21171659-4115323	6580773015762728704	319.3191	-41.2590	0.5642	-44.2895	Gemini South	GMOS-S	GS-2016A-Q-76
21190273+3318462	1854629726683249024	319.7614	33.3128	79.9704	-11.3120	Gemini North	GMOS-N	GN-2016A-Q-75
21192932-7715553	6356252535213950592	319.8722	-77.2654	315.2274	-34.2544	Gemini South	GMOS-S	GS-2015A-Q-77
21203573-5321426	6463751271665659264	320.1488	-53.3619	343.7702	-43.4450	SOAR	Goodman	SO-2019B-013
21211669+2032551	1790500809763786624	320.3195	20.5487	70.5165	-20.2922	Gemini North	GMOS-N	GN-2016A-Q-75
21214670+1916532	1785668323017152384	320.4446	19.2815	69.5759	-21.2120	Gemini North	GMOS-N	GN-2017B-Q-79
21232828-5328287	6463713682111820160	320.8679	-53.4746	343.4834	-43.8366	Gemini South	GMOS-S	GS-2016A-Q-76
21240060-5241520	6465286018099447680	321.0026	-52.6978	344.5084	-44.0933	Gemini South	GMOS-S	GS-2016A-Q-76
21243758-6400120	6403279953204895360	321.1566	-64.0033	329.8995	-40.6628	Gemini South	GMOS-S	GS-2015A-Q-92
21254398-6753045	6399850542078013568	321.4332	-67.8846	325.2363	-39.1502	Gemini South	GMOS-S	GS-2015B-Q-71
21262879+1749436	1784515446419862656	321.6200	17.8288	69.1801	-23.0057	Gemini North	GMOS-N	GN-2017B-Q-79
21263180+2031469	1790358392944627712	321.6325	20.5297	71.3727	-21.2253	Gemini North	GMOS-N	GN-2015B-Q-86

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
21281884-6406460	6403090356168392192	322.0785	-64.1128	329.5544	-40.9891	Gemini South	GMOS-S	GS-2016A-Q-76
21292831-5558258	6460174865281654144	322.3680	-55.9738	339.8187	-44.0067	Gemini South	GMOS-S	GS-2016A-Q-76
21313828-6858199	6396651616076109184	322.9094	-68.9722	323.6699	-39.1316	SOAR	Goodman	SO-2019B-013
21322880-6607539	6400620298999247488	323.1200	-66.1316	326.8981	-40.5202	Gemini South	GMOS-S	GS-2017A-Q-86
21323054+1600097	1772048878641647488	323.1273	16.0027	68.7151	-25.2935	Gemini North	GMOS-N	GN-2015B-Q-86
21340283-6224209	6403844758583266688	323.5118	-62.4058	331.2874	-42.2744	SOAR	Goodman	SO-2019B-013
21343861+1538156	1771832962045862656	323.6609	15.6377	68.7878	-25.9200	Gemini North	GMOS-N	GN-2017B-Q-79
21351702-5533118	6460110479427930624	323.8210	-55.5533	340.0286	-44.9137	Gemini South	GMOS-S	GS-2016A-Q-76
21373999-2446495	6814831136913490048	324.4167	-24.7804	24.6909	-46.6478	Gemini South	GMOS-S	GS-2016A-Q-76
21391225+3849406	1953863502940549504	324.8011	38.8279	86.8586	-10.2246	Gemini North	GMOS-N	GN-2016B-Q-77
21393394-5845548	6458363870847393792	324.8915	-58.7652	335.5142	-44.3375	SOAR	Goodman	SO-2019B-013
21414000-2854239	6809748884932883712	325.4167	-28.9067	18.9769	-48.3607	Gemini South	GMOS-S	GS-2016A-Q-76
21430664-6338509	6402785069892389760	325.7777	-63.6475	329.1653	-42.6576	Gemini South	GMOS-S	GS-2015A-Q-92
21440820+3813139	1952857308060989312	326.0342	38.2205	87.1776	-11.3208	Gemini North	GMOS-N	GN-2017B-Q-79
21445442-6319381	6402818531980755584	326.2268	-63.3273	329.4245	-42.9839	Gemini South	GMOS-S	GS-2017A-Q-86
21453847+2351116	1794596868534480128	326.4103	23.8533	77.2491	-22.1125	Gemini North	GMOS-N	GN-2015B-Q-86
21461136-5420472	6461349457233919872	326.5473	-54.3464	340.9260	-46.7889	Gemini South	GMOS-S	GS-2016A-Q-76
21480606+4643071	1974610531448247936	327.0253	46.7186	93.3324	-5.3458	Gemini North	GMOS-N	GN-2018A-Q-403
21482057+2155222	1793330952694172416	327.0857	21.9229	76.2721	-23.9305	Gemini North	GMOS-N	GN-2016B-Q-77
21494865+1048431	1765600930139450752	327.4527	10.8120	67.4689	-31.8841	Gemini North	GMOS-N	GN-2015B-Q-86
21502426-6105576	6409890217109702784	327.6011	-61.0994	331.7472	-44.5848	SOAR	Goodman	SO-2019B-013
21510307+3619543	1949409175177462272	327.7628	36.3318	86.9742	-13.6488	Gemini North	GMOS-N	GN-2015B-Q-86
21513710-7925459	6355014691279286400	327.9046	-79.4294	311.9608	-34.3178	Gemini South	GMOS-S	GS-2017A-Q-86
21515415+0537172	2697022209558112768	327.9756	5.6215	63.1301	-35.6543	Gemini North	GMOS-N	GN-2018A-Q-403
21525027-6604240	6398934786330198784	328.2094	-66.0734	325.6145	-42.3442	Gemini South	GMOS-S	GS-2015A-Q-92
21555532+3501402	1948312515407711104	328.9805	35.0278	86.8883	-15.2833	Gemini North	GMOS-N	GN-2017B-Q-75
21573551-0308043	2670534149811033088	329.3980	-3.1345	55.2402	-42.0636	Gemini South	GMOS-S	GS-2016A-Q-76
21573761+3544196	1948748437403259776	329.4068	35.7388	87.6351	-14.9562	Gemini North	GMOS-N	GN-2017B-Q-75
21584417+0052490	2681491607815613952	329.6841	0.8803	59.7701	-39.9376	Gemini North	GMOS-N	GN-2016A-Q-75
21584491+0129524	2681597607608087040	329.6872	1.4979	60.4089	-39.5630	Gemini North	GMOS-N	GN-2018A-Q-403
22013669-6918312	6396019706127003520	330.4030	-69.3087	321.4107	-41.1916	SOAR	Goodman	SO-2019B-013
22032935-5635128	6412646138709077888	330.8723	-56.5869	336.4465	-48.1507	SOAR	Goodman	SO-2019B-013
22040352+0016519	2680470706974136192	331.0147	0.2811	60.2135	-41.3575	Gemini North	GMOS-N	GN-2015B-Q-86
22043661-6044348	6409307304149253248	331.1525	-60.7430	330.9884	-46.2647	SOAR	Goodman	SO-2019B-013
22044480+4148205	1959828147361822848	331.1867	41.8057	92.6034	-11.0445	Gemini North	GMOS-N	GN-2017B-Q-75
22050237+3107332	1898564081014685184	331.2598	31.1260	85.8490	-19.5126	Gemini North	GMOS-N	GN-2016A-Q-75
22082896-6607320	6399063394830844544	332.1208	-66.1255	324.3316	-43.6218	Gemini South	GMOS-S	GS-2017A-Q-86
22104990-3947023	6573266443723504768	332.7080	-39.7840	1.5988	-54.5411	Gemini South	GMOS-S	GS-2017A-Q-86
22112456-3753100	6574080735161542784	332.8524	-37.8861	4.8349	-54.8888	Gemini South	GMOS-S	GS-2016A-Q-76
22115350-1209181	2612971211403496832	332.9729	-12.1551	46.7892	-49.7828	Gemini South	GMOS-S	GS-2016A-Q-76
22120815-4215210	6569918602615687808	333.0339	-42.2559	357.3402	-54.3431	SOAR	Goodman	SO-2019B-013
22125424-0235414	2675834650555144576	333.2260	-2.5949	58.9120	-44.8587	Gemini South	GMOS-S	GS-2016A-Q-76

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
22125459-0408594	2627229884351014144	333.2275	-4.1498	57.1277	-45.7770	Gemini South	GMOS-S	GS-2016A-Q-76
22140658-0016065	2678634350759886336	333.5274	-0.2685	61.7379	-43.6714	Gemini South	GMOS-S	GS-2015A-Q-77
22165631-1154207	2612857755547023232	334.2346	-11.9058	48.0461	-50.7522	Gemini South	GMOS-S	GS-2015A-Q-77
22211976-4111021	6569481855982624640	335.3324	-41.1839	358.5334	-56.2484	Gemini South	GMOS-S	GS-2015A-Q-92
22213981+3725402	1906965002686762496	335.4159	37.4278	92.6972	-16.4992	Gemini North	GMOS-N	GN-2017A-Q-82
22221878-7406283	6357952517629300352	335.5782	-74.1079	315.2965	-39.2321	SOAR	Goodman	SO-2019B-013
22224538+3555471	1905936405260048384	335.6891	35.9298	92.0012	-17.8594	Gemini North	GMOS-N	GN-2017A-Q-82
22224859+2804264	1881899328730042368	335.7025	28.0740	87.1525	-24.2839	Gemini North	GMOS-N	GN-2015B-Q-86
22225487+2954084	1894651090929156096	335.7286	29.9024	88.3423	-22.8160	Gemini North	GMOS-N	GN-2017A-Q-82
22234372-8627533	6342106630928779392	335.9325	-86.4648	305.3821	-29.9330	Gemini South	GMOS-S	GS-2017A-Q-86
22235096-6512086	6404249993041212928	335.9623	-65.2025	323.9604	-45.4350	Gemini South	GMOS-S	GS-2016A-Q-76
22241668+2548128	1879125024671706624	336.0695	25.8036	85.9571	-26.3073	Gemini North	GMOS-N	GN-2017A-Q-82
22241984+2430382	1878702846566493440	336.0827	24.5106	85.1026	-27.3515	Gemini North	GMOS-N	GN-2015B-Q-86
22244368+3236401	1901779602770732032	336.1820	32.6112	90.3632	-20.8244	Gemini North	GMOS-N	GN-2017B-Q-75
22251594+2911332	1894379923873649536	336.3164	29.1926	88.3463	-23.6909	Gemini North	GMOS-N	GN-2015B-Q-86
22280812+3546524	1905786459361887488	337.0338	35.7812	92.8667	-18.5901	Gemini North	GMOS-N	GN-2016A-Q-75
22284549-4124119	6593293356532115712	337.1895	-41.4033	357.5392	-57.5526	Gemini South	GMOS-S	GS-2017A-Q-86
22290341+3954145	1909092729485051776	337.2642	39.9040	95.3670	-15.2270	Gemini North	GMOS-N	GN-2015B-Q-86
22293323+4332048	1981952760850101376	337.3885	43.5347	97.4382	-12.2034	Gemini North	GMOS-N	GN-2018A-Q-403
22294083-3305402	6600574876582217344	337.4201	-33.0945	13.1498	-58.9197	Gemini South	GMOS-S	GS-2016A-Q-76
22303946-1809055	2594309161890648320	337.6645	-18.1516	40.9165	-56.4245	Gemini South	GMOS-S	GS-2016A-Q-76
22310829+3023018	1900531824573844608	337.7846	30.3839	90.2287	-23.4344	Gemini North	GMOS-N	GN-2017B-Q-75
22311433-6656572	6386075551166390144	337.8097	-66.9492	321.4131	-44.8178	Gemini South	GMOS-S	GS-2015A-Q-92
22315231+2320202	1875411630307299456	337.9680	23.3390	85.8927	-29.3158	Gemini North	GMOS-N	GN-2016A-Q-75
22342447+2739353	1881261994239589888	338.6020	27.6598	89.2095	-26.0942	Gemini North	GMOS-N	GN-2015B-Q-86
22345447-6605172	6392134513070641408	338.7269	-66.0881	321.9294	-45.6798	Gemini South	GMOS-S	GS-2015A-Q-92
22354139-4305549	6520905878946665344	338.9225	-43.0986	353.7835	-58.2882	Gemini South	GMOS-S	GS-2016A-Q-76
22355721-2434108	6623904314300239488	338.9886	-24.5701	30.0249	-59.5016	Gemini South	GMOS-S	GS-2016A-Q-76
22360602+3930413	1908318669000212480	339.0251	39.5115	96.3488	-16.2740	Gemini North	GMOS-N	GN-2016A-Q-75
22364074-7026524	6384994623861077376	339.1698	-70.4480	317.5510	-42.6499	Gemini South	GMOS-S	GS-2017A-Q-86
22373316-4341181	6520826714109323392	339.3882	-43.6884	352.5076	-58.4074	Gemini South	GMOS-S	GS-2016A-Q-76
22401067-3738259	6595625729931613568	340.0444	-37.6406	3.7082	-60.5466	Gemini South	GMOS-S	GS-2016A-Q-76
22412632-3627304	6596002145160945664	340.3597	-36.4584	5.9980	-61.0060	Gemini South	GMOS-S	GS-2016A-Q-76
22413573+2931038	1887539965117822464	340.3989	29.5177	91.8009	-25.3921	Gemini North	GMOS-N	GN-2015B-Q-86
22432022-7547340	6357547759911189120	340.8343	-75.7927	312.5515	-38.8457	Gemini South	GMOS-S	GS-2015A-Q-77
22451263+3532066	1903656636619168768	341.3026	35.5352	95.8658	-20.6169	Gemini North	GMOS-N	GN-2016A-Q-75
22453503+1301210	2731609959149919360	341.3960	13.0225	81.6630	-39.5584	Gemini North	GMOS-N	GN-2016A-Q-75
22454796+2826260	1887186850086385152	341.4498	28.4406	92.0438	-26.7912	Gemini North	GMOS-N	GN-2017B-Q-75
22471965-7201440	6382433144021702656	341.8319	-72.0289	315.2876	-41.9933	Gemini South	GMOS-S	GS-2015A-Q-77
22472643+3532411	1903562838830927744	341.8601	35.5447	96.2925	-20.8328	Gemini North	GMOS-N	GN-2016A-Q-75
22473447-5511534	6505905757201226368	341.8936	-55.1982	332.9805	-54.0938	Gemini South	GMOS-S	GS-2016A-Q-76
22474545+2517113	1876790894628571264	341.9394	25.2865	90.5938	-29.7079	Gemini North	GMOS-N	GN-2017B-Q-75

(continued)

Table 1 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
22481449-5703067	6504026829267642240	342.0604	-57.0519	330.4817	-52.9800	Gemini South	GMOS-S	GS-2016A-Q-76
22490353-5536242	6505879059684460032	342.2647	-55.6069	332.2131	-53.9996	Gemini South	GMOS-S	GS-2016A-Q-76
22492811-5717202	6503988105842414464	342.3671	-57.2890	330.0037	-52.9492	Gemini South	GMOS-S	GS-2017A-Q-86
22511876-3814381	6547694891340666752	342.8282	-38.2440	1.4318	-62.5487	Gemini South	GMOS-S	GS-2016A-Q-76
22512739-5049405	6513929237145370880	342.8642	-50.8279	338.5661	-57.1795	Gemini South	GMOS-S	GS-2016A-Q-76
22531950-6647163	6391157150312476032	343.3313	-66.7879	319.2953	-46.4097	Gemini South	GMOS-S	GS-2015A-Q-77
22534476-5456485	6506123701021637888	343.4365	-54.9468	332.3452	-54.9349	Gemini South	GMOS-S	GS-2017A-Q-86
22534538+7919586	2285728337337892480	343.4393	79.3330	117.4540	17.7348	Gemini North	GMOS-N	GN-2017B-Q-75
22544750-3509160	6554282379035795840	343.6980	-35.1545	7.8000	-63.8932	Gemini South	GMOS-S	GS-2016A-Q-76
22575548-5622538	6493611254400172416	344.4812	-56.3816	329.8179	-54.4150	SOAR	Goodman	SO-2019B-013
22591090-4829425	6515325616912384256	344.7954	-48.4952	340.8744	-59.5330	Gemini South	GMOS-S	GS-2016A-Q-76
22594336-3819324	6546814427341069568	344.9307	-38.3257	0.2358	-64.1116	Gemini South	GMOS-S	GS-2017A-Q-86
23003637+2820257	1885059776122105728	345.1516	28.3405	95.1806	-28.4919	Gemini North	GMOS-N	GN-2017B-Q-75
23022817-4059099	6543252452048113152	345.6174	-40.9861	354.1450	-63.6855	SOAR	Goodman	SO-2019B-013
23035329-4139482	6543169129682052608	345.9721	-41.6634	352.5059	-63.6525	SOAR	Goodman	SO-2019B-013
23043022+0155166	2652540916900514304	346.1260	1.9213	77.1087	-51.1802	SOAR	Goodman	SO-2019B-013
23044868-4311029	6541868716664047744	346.2028	-43.1842	349.2960	-63.1278	SOAR	Goodman	SO-2019B-013
23055841-8636001	6341894558326196480	346.4936	-86.6000	304.6775	-30.1638	Gemini South	GMOS-S	GS-2017A-Q-86
23064708+2802027	1884897937457948672	346.6962	28.0342	96.4009	-29.3904	Gemini North	GMOS-N	GN-2015B-Q-86
23083044-7441319	6378503729982312576	347.1269	-74.6922	311.6216	-40.6522	SOAR	Goodman	SO-2019B-013
23085453-5226130	6500818969734685440	347.2272	-52.4370	333.0369	-58.2796	Gemini South	GMOS-S	GS-2015B-Q-71
23093209-7132507	6381003327932886144	347.3838	-71.5474	313.7284	-43.3811	SOAR	Goodman	SO-2019B-013
23100319-7702165	6354182945092770176	347.5134	-77.0379	309.9959	-38.6659	Gemini South	GMOS-S	GS-2015B-Q-71
23123243-0240516	2638139066923296128	348.1352	-2.6811	74.6212	-55.9806	Gemini South	GMOS-S	GS-2017A-Q-86
23124700+2701045	2845306436489791232	348.1958	27.0179	97.2619	-30.8901	Gemini North	GMOS-N	GN-2015B-Q-86
23130418-4332060	6541663554666433920	348.2674	-43.5350	346.9295	-64.2578	SOAR	Goodman	SO-2019B-013
23131220+5425552	1996424051866554112	348.3008	54.4320	108.8699	-5.7356	Gemini North	GMOS-N	GN-2018A-Q-403
23133742-5336585	6500438435631474560	348.4060	-53.6163	330.5033	-57.9593	Gemini South	GMOS-S	GS-2015B-Q-71
23164530-4047253	6548299386513340288	349.1888	-40.7904	351.8237	-66.2080	SOAR	Goodman	SO-2019B-013
23235454-4730233	6526777614634204672	350.9773	-47.5065	337.1353	-63.3930	SOAR	Goodman	SO-2019B-013
23273196+5438201	1995911404570328192	351.8832	54.6390	110.9023	-6.2613	Gemini North	GMOS-N	GN-2015B-Q-86
23293844+3337097	2872688983306031616	352.4102	33.6194	104.0067	-26.2286	Gemini North	GMOS-N	GN-2015B-Q-86
23321307+1950398	2824757388800259840	353.0546	19.8443	98.6266	-39.2600	Gemini North	GMOS-N	GN-2015B-Q-86
23341995+4703450	1938499679067388288	353.5832	47.0625	109.5430	-13.7949	Gemini North	GMOS-N	GN-2017B-Q-79
23362842-5537423	6496310731541441152	354.1184	-55.6284	323.2146	-58.4491	SOAR	Goodman	SO-2019B-013
23371202+2100145	2826450808506230016	354.3002	21.0041	100.5785	-38.6241	Gemini North	GMOS-N	GN-2016A-Q-75
23400099+4959092	1943744250753474944	355.0042	49.9859	111.3352	-11.2709	Gemini North	GMOS-N	GN-2016A-Q-75
23421250-6346584	6485737793369175680	355.5521	-63.7829	315.1663	-51.6695	Gemini South	GMOS-S	GS-2015B-Q-71
23430472-8200221	6350719930141819520	355.7700	-82.0061	305.7830	-34.7401	Gemini South	GMOS-S	GS-2015B-Q-71
23433753+5008599	1943761190104941824	355.9064	50.1500	111.9489	-11.2701	Gemini North	GMOS-N	GN-2016A-Q-75
23450930+5538498	1994885560221975552	356.2888	55.6472	113.6190	-6.0214	Gemini North	GMOS-N	GN-2018A-Q-403
23465497+1201211	2763718305727188480	356.7291	12.0224	99.0533	-47.8353	Gemini North	GMOS-N	GN-2017B-Q-79

(continued)

Table 1 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	R.A. (deg)	Decl. (deg)	l (deg)	b (deg)	Telescope	Instrument	Program ID
23472384+4835469	1940559103007605120	356.8494	48.5964	112.1453	-12.9295	Gemini North	GMOS-N	GN-2018A-Q-403
23505349+1142348	2766637307235175296	357.7229	11.7097	100.2448	-48.4769	Gemini North	GMOS-N	GN-2016A-Q-75
23550005+1255039	2766874664308017408	358.7503	12.9178	102.2681	-47.6768	Gemini North	GMOS-N	GN-2017B-Q-79
23555398+5702462	1998062118035485056	358.9749	57.0462	115.4026	-5.0114	Gemini North	GMOS-N	GN-2016A-Q-75
23560245+1109200	2765621221052354816	359.0102	11.1555	101.7665	-49.4263	Gemini North	GMOS-N	GN-2015B-Q-86
23562635+0651168	2746230337064331776	359.1098	6.8547	99.5568	-53.5025	Gemini North	GMOS-N	GN-2017B-Q-79
23563722+4615436	1927134439687586560	359.1551	46.2621	113.1422	-15.5654	Gemini North	GMOS-N	GN-2015B-Q-86
23564530-4429484	6532542491534291968	359.1887	-44.4968	331.6470	-69.4587	Gemini South	GMOS-S	GS-2017A-Q-86

Table 2. Colors, Magnitudes and Reddening Estimates

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
00003305-7953389	4634573766005607552	12.411	0.775	12.184	1.069	10.804	0.535	0.074
00020162-4430117	4994519032163925632	12.631	0.807	12.397	1.067	11.007	0.567	0.011
00040305-6106367	4905632480654004608	12.818	1.075	12.417	1.466	10.546	0.745	0.010
00043646+4124062	384060304935385984	12.612	1.025	12.371	1.082	10.896	0.643	0.073
00045403+3524010	2876804519751163008	12.174	0.698	11.925	1.011	10.576	0.513	0.063
00052731+0025510	2546113345293028608	12.376	0.864	12.123	1.110	10.702	0.563	0.059
00060902-6238019	4904480471642380928	11.897	0.971	11.618	1.232	10.034	0.638	0.012
00071189+4724466	393031258963415936	10.278	0.743	11.285	0.910	9.206	0.348	0.118
00111339+0152512	2546752127188959232	12.637	0.879	12.443	1.077	11.051	0.600	0.021
00140089+3148167	2861747777456341120	11.181	0.876	10.991	1.131	9.552	0.630	0.048
00144636-2246093	2361100512255883904	12.756	1.029	12.319	1.272	10.679	0.705	0.020
00150914-3736048	2308246644711975680	12.998	1.008	12.663	1.331	10.907	0.674	0.016
00152923-2436237	2336022438732700672	12.102	0.972	11.918	1.267	10.130	0.688	0.017
00152952-6121258	4904881106191486592	13.053	0.881	12.743	1.209	11.213	0.636	0.011
00154806-6253207	4901504815220315648	11.043	0.855	10.769	1.155	9.293	0.639	0.015
00162809-0505519	2443891577459590016	12.921	0.630	12.670	0.961	11.400	0.481	0.025
00163655+3538314	2876439211309388672	11.695	0.867	11.412	1.142	9.911	0.604	0.048
00163809-4912369	4977077135617904640	12.541	1.140	12.093	1.428	10.313	0.732	0.013
00165353+3642326	2876647328245159552	12.893	0.804	12.738	1.052	11.389	0.578	0.059
00170767+4614488	392109932642310272	12.698	0.781	12.419	1.121	11.017	0.579	0.085
00175076-6819295	4706413931618489600	12.732	0.790	12.484	1.088	11.045	0.585	0.026
00182947-7829325	4635466706886248448	13.008	0.909	12.821	1.190	11.213	0.650	0.064
00192284+4431554	385734487485292928	11.145	1.099	10.803	1.319	9.112	0.665	0.070
00202312-3950260	4997141779713479680	11.787	1.142	11.484	1.528	9.447	0.694	0.011
00213396+0008219	2545302077511395968	12.665	0.852	12.605	1.159	10.836	0.590	0.023
00223511-4231148	4992150679821873664	12.289	0.744	12.018	1.074	10.626	0.580	0.008
00234358-1117357	2424691974134738816	12.868	0.899	12.580	1.199	11.020	0.640	0.030
00235345-6649211	4707128682896207872	10.845	0.767	10.596	1.068	9.238	0.609	0.018
00241677+2941440	2858965188404148480	13.007	0.774	12.773	1.044	11.436	0.569	0.054
00275509+3458068	365999795656991616	12.528	0.805	12.226	1.182	10.682	0.598	0.083
00281899-6820268	4703742084003326080	12.271	0.994	11.955	1.292	10.346	0.688	0.019
00293797+2103054	2796582811359131392	12.142	0.747	11.916	1.031	10.565	0.541	0.037
00301775+2957334	2858881625520606848	12.640	0.974	12.356	1.228	10.785	0.688	0.045
00303445+2816193	2857835710788936832	12.803	1.191	12.349	1.484	10.483	0.728	0.034
00311900+4957158	391597358363860608	12.959	0.867	12.716	1.135	11.248	0.604	0.103
00325147+4107490	381063654713703040	12.153	0.780	11.915	1.046	10.521	0.543	0.053
00331311+2033190	2796309861892160384	12.929	0.832	15.019	0.000	11.249	0.613	0.034
00341417-3943068	4994368227272214784	11.789	0.810	11.584	1.071	10.194	0.604	0.013
00342795-2413107	2348080164279166208	12.685	1.177	12.246	1.554	10.304	0.760	0.015
00351869-2854190	2319002587146050304	13.043	0.871	12.781	1.141	11.283	0.618	0.016
00354136+1618228	2780880960680375808	12.946	0.895	12.618	1.229	10.982	0.661	0.036

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{\text{BP}} - G_{\text{RP}})$	J	$(J - K)$	$E(B - V)$
00370433+4341208	387703815888550656	11.746	1.152	11.393	1.434	9.607	0.721	0.056
00370966-4224102	4992914501101243264	11.800	0.872	11.584	1.125	10.109	0.589	0.009
00374809-2751193	2343095974991737600	12.673	1.189	12.327	1.488	10.462	0.760	0.013
00400685-4325183	4980747129334018944	12.363	1.092	11.923	1.430	10.179	0.720	0.007
00410089+3633397	365840847508048384	12.363	0.740	12.147	1.021	10.803	0.509	0.041
00410467+1649478	2782313903504860032	12.866	0.909	12.328	1.342	10.522	0.702	0.040
00425182+1925361	2795241995584048000	12.917	0.819	12.630	1.142	11.115	0.563	0.055
00433651-2719379	2343181981712123520	12.806	0.989	12.490	1.252	10.896	0.634	0.008
00435264-2132285	2350389894612060544	12.831	0.794	12.605	1.047	11.238	0.558	0.014
00452879-5846450	4906911251332870144	10.615	0.912	10.405	1.164	8.934	0.604	0.012
00463619-3739335	5000753194373767424	11.929	0.804	11.685	1.117	10.279	0.631	0.010
00482546-7441092	4685477782827620992	12.023	0.713	11.904	0.984	10.633	0.513	0.040
00482715-8224023	4629945985987660416	12.494	1.058	12.163	1.330	10.458	0.672	0.113
00504527-6351504	4709709305405862656	12.528	0.996	12.128	1.344	10.444	0.641	0.019
00510748-7809118	4635149768362820096	12.784	0.992	12.447	1.294	10.803	0.648	0.052
00521010-6006097	4903551070783622528	11.995	1.021	11.651	1.316	10.033	0.671	0.014
00522310-5804087	4907332914042242304	11.960	0.783	11.670	1.079	10.324	0.663	0.015
00523111+3758286	367656523458156544	12.869	0.698	12.692	0.970	11.406	0.522	0.039
00582707+0633561	2553447805108682496	12.512	0.895	12.251	1.149	10.743	0.603	0.051
00594615+1223173	2584343227151274752	12.972	0.968	12.654	1.260	11.123	0.700	0.060
01021265+0428241	2551971405806340096	11.608	0.956	11.315	1.241	9.772	0.697	0.016
01024809+4300486	376344555103575808	11.487	1.063	11.217	1.280	9.520	0.753	0.073
01031767+0908145	2581189278047060224	11.959	0.757	11.712	1.069	10.326	0.598	0.032
01033338-7410471	4684860888081427840	12.091	0.766	11.937	1.039	10.512	0.578	0.038
01040440+0504477	2552119633717667584	11.498	0.823	11.257	1.059	9.952	0.563	0.018
01042513+4011391	371347102956265728	12.846	0.935	12.570	1.234	11.011	0.634	0.041
01042908+0755213	2578034366869468800	12.792	0.905	12.559	1.198	10.960	0.614	0.034
01051545-0041328	2533223147709485312	12.693	1.046	12.308	1.359	10.620	0.685	0.030
01065190-5244105	4927175937828177280	13.642	0.805	13.364	1.130	11.908	0.619	0.011
01132198-6139522	4710458244623085184	12.819	0.921	12.596	1.201	11.090	0.697	0.015
01200289-0158201	2533312006288169600	11.233	0.755	10.998	1.032	9.673	0.581	0.042
01250922-5614027	4910744423745801472	13.799	0.900	13.550	1.159	12.063	0.642	0.022
01253364-4148345	4984027698370924672	10.475	0.701	10.314	0.995	8.830	0.608	0.014
01253802-2911025	...	13.971	1.476	...	...	10.390	0.761	0.011
01291742-7139220	4687775246726470144	12.563	0.959	12.290	1.231	10.713	0.616	0.038
01311599-4016510	5008222486100643200	11.110	0.802	10.862	1.088	9.526	0.668	0.012
01315199-6547540	4710799574264331904	12.519	0.844	12.367	1.128	10.807	0.617	0.016
01323787-1530302	2451901038631956224	12.692	0.858	12.428	1.071	11.095	0.600	0.015
01363655+5451319	409152813849385216	12.990	1.059	12.764	1.401	10.813	0.711	0.226
01372246-4611110	4931138955692103424	12.059	0.842	11.865	1.074	10.469	0.593	0.015
01373378-6921368	4691261969896942848	12.621	0.988	12.282	1.304	10.627	0.674	0.021
01382048-7637319	4636801853303548416	12.701	0.663	12.490	0.959	11.233	0.516	0.044

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
01390079-7811248	4633446629147784320	13.024	0.958	12.721	1.263	11.096	0.661	0.053
01394297-1615477	2452308064092390784	12.154	0.974	11.841	1.228	10.266	0.630	0.012
01430726-6445174	4710973567683306624	11.980	0.867	11.725	1.150	10.241	0.635	0.019
01481644-5717024	4718885485854328064	12.640	0.690	12.456	0.956	11.199	0.502	0.020
01481836-6022102	4717520854484700288	12.534	0.749	12.357	1.019	11.015	0.515	0.018
01512909-5049125	4940475493039087872	13.842	0.906	13.558	1.191	12.013	0.657	0.014
01532990-7617103	4636731828156259712	12.221	0.865	11.955	1.143	10.494	0.600	0.048
01535484+4743406	357061938652034816	12.928	0.825	12.742	1.100	11.289	0.629	0.121
01541382-4927292	4940875062436326784	12.483	0.786	12.247	1.062	10.837	0.564	0.018
01542953-4953166	4940665261873824640	12.401	1.076	12.063	1.332	10.387	0.662	0.015
01555066-6400155	4699467590815290368	12.668	0.841	12.392	1.146	10.872	0.558	0.023
01555808+5040276	359446465839056512	12.130	0.915	11.790	1.217	10.324	0.705	0.234
01570453-6511318	4699066135928244224	12.892	0.799	12.648	1.122	10.981	0.672	0.023
01585657-1624249	5141897776909177856	11.991	0.767	11.796	0.979	10.537	0.531	0.025
01592159+8341476	572808964949945088	12.687	0.895	12.435	1.199	10.912	0.671	0.153
02002105-2520170	5121763691780187008	11.839	0.981	11.438	1.282	9.776	0.721	0.012
02002992+5657571	505258239019253760	12.684	0.902	12.323	1.261	10.706	0.670	0.297
02013041-0949339	2462500536881830528	11.970	0.822	11.727	1.063	10.326	0.558	0.019
02020691-8507254	4616783629211669888	12.910	1.101	12.510	1.455	10.672	0.714	0.111
02023240+5535052	504560598882408960	12.946	0.847	15.132	1.119	11.134	0.657	0.276
02062328-0718389	2487426224965026688	12.886	0.915	12.585	1.186	11.139	0.667	0.018
02091623-2825011	5117222021562768256	11.211	1.105	10.857	1.370	9.139	0.708	0.011
02121057-2136569	5124244804192255104	12.878	0.734	12.648	1.014	11.319	0.570	0.013
02131127-3617490	4965179285932359552	12.942	1.016	12.663	1.327	10.940	0.665	0.014
02143996-2731561	5116644773662434176	12.877	1.009	12.346	1.461	10.550	0.744	0.011
02151298+4941500	355587661060325120	12.854	0.917	12.561	1.151	11.156	0.639	0.172
02165682+4443112	352161380966711936	12.583	1.104	12.224	1.410	10.485	0.711	0.072
02165716-7547064	4637170571951777280	11.894	1.064	11.573	1.345	9.886	0.683	0.041
02184236-5351323	4743265369493805696	12.964	0.927	12.649	1.239	11.052	0.624	0.025
02184254-6111160	4701711045508666112	12.167	0.751	11.847	1.118	10.376	0.570	0.044
02194944-2701309	5117093275622914688	12.934	0.598	12.804	0.756	12.021	0.526	0.011
02200131-5909599	4738094228868954496	11.649	1.070	11.219	1.432	9.430	0.709	0.024
02200416-3505332	4966846038184021888	12.908	0.834	12.674	1.080	11.276	0.573	0.014
02202248-3221349	4970735118186763520	12.745	1.048	12.371	1.390	10.582	0.697	0.016
02205873-6708044	4696223279895236992	11.790	0.968	11.509	1.230	9.953	0.660	0.026
02215591-1414291	5146733910084621440	11.685	0.872	13.681	0.000	10.033	0.581	0.017
02230945+3819551	331739842266523264	12.688	1.163	12.351	1.107	11.037	0.652	0.041
02234760-4630467	4940121690813101056	12.498	0.839	12.294	1.066	10.894	0.584	0.014
02242892+7959144	562642266262613504	11.413	0.832	11.268	1.080	9.838	0.554	0.161
02243601-3101131	5066948639089274496	12.942	0.795	12.725	1.083	11.277	0.589	0.015
02255030-7822010	4632830898340209920	12.564	0.755	12.326	1.062	10.914	0.532	0.066
02260082-2250455	5120483443633370496	12.773	0.947	12.499	1.233	10.844	0.640	0.016

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
02263468-7052018	4645240501967006720	13.722	0.831	13.479	1.121	12.006	0.585	0.037
02263472-1610120	5145471979973495040	12.670	1.159	12.304	1.469	10.418	0.776	0.022
02263559-6118229	4701661876723001088	13.029	1.046	12.692	1.315	11.027	0.688	0.029
02265573-3957537	4951576334231196160	12.222	0.803	11.966	1.117	10.543	0.629	0.017
02272940-1844371	5131351909915040640	11.904	0.917	11.513	1.184	10.030	0.700	0.026
02281118+3107248	132459372685231872	13.016	0.992	15.066	0.000	10.905	0.651	0.080
02284342+8235565	569513114421444480	11.582	0.818	11.337	1.219	9.573	0.708	0.231
02295644-7231067	4643772207267807104	12.959	0.753	12.789	1.007	11.406	0.556	0.028
02302280-1713235	5133294712601873024	12.692	0.973	12.294	1.286	10.581	0.663	0.020
02302823+3146355	134052560743210624	12.685	0.985	12.491	1.249	10.813	0.644	0.075
02314914-4251147	4950048081786940160	11.567	1.009	11.297	1.276	9.663	0.603	0.018
02322533-2955268	5067349028825362176	12.655	0.835	12.453	1.099	11.016	0.603	0.014
02332987-2602004	5070849431466425600	11.620	0.928	11.397	1.170	9.918	0.632	0.018
02335901-5218323	4744814203419011456	11.178	0.860	10.988	1.138	9.486	0.607	0.030
02343390-3438203	5062336050373022976	11.374	0.711	11.133	1.002	10.061	0.716	0.020
02345434-3349391	5062448200558971136	12.831	0.978	12.475	1.291	10.833	0.657	0.014
02361077-1202559	5171442680844060160	12.212	0.782	11.982	1.037	10.624	0.564	0.022
02371057-4036121	4951834822543543040	10.727	0.599	10.578	0.779	9.257	0.397	0.019
02372192+4302214	340142202749502464	12.990	0.901	12.877	1.157	11.409	0.646	0.075
02384449-3325102	5062531071950987392	12.013	0.736	11.802	1.023	10.472	0.550	0.015
02394381-3631306	4953863662014601216	12.968	0.590	12.806	0.806	11.923	0.371	0.029
02401392+2556291	126323578110142848	12.385	0.896	12.148	1.232	10.492	0.644	0.129
02404390+4457499	340915713477131008	13.009	1.312	12.653	1.405	10.797	0.734	0.095
02425864-3709379	4953584523499875712	12.458	0.721	12.254	0.989	10.947	0.544	0.018
02431746-8608453	4613478261037323776	12.948	1.198	12.537	1.504	10.635	0.724	0.085
02435125-2942551	5065856377366623872	12.824	1.228	12.386	1.514	10.553	0.714	0.017
02451977+1332222	31933391083889152	13.027	0.758	12.719	1.128	11.228	0.576	0.086
02462323-3137296	5064607984993521792	12.590	0.900	12.345	1.110	10.971	0.595	0.021
02471497-6303000	4721297363392975488	12.201	0.975	11.885	1.237	10.251	0.663	0.021
02494852-2229202	5077735500993403648	11.173	0.796	11.036	1.095	9.516	0.613	0.029
02501156+3457476	140083622534201088	12.653	1.009	12.262	1.355	10.558	0.692	0.068
02512543+8333571	569663953674510464	12.962	1.033	12.652	1.396	11.011	0.741	0.259
02523341-4416060	4755176207159038080	13.373	1.094	12.997	1.365	11.293	0.675	0.009
02525369+2107466	109283900954164992	12.899	1.035	12.512	1.429	10.628	0.688	0.300
02525416-3228483	5052264558220148352	12.594	1.165	13.924	0.000	10.364	0.742	0.024
02532757-3454050	5049605732946898432	13.017	0.848	12.790	1.097	11.367	0.592	0.017
02533614-6234511	4721372684235614848	12.766	0.752	12.533	1.006	11.229	0.540	0.025
02564805-1942473	5128076774013414912	12.202	0.908	11.995	1.175	10.439	0.644	0.017
02571027+3318455	136508702211948672	12.905	0.931	12.553	1.268	10.919	0.624	0.105
02580877+0829424	8791969854015488	12.794	0.770	12.538	1.066	11.218	0.573	0.249
02590016-7209504	4645469170322185984	12.470	0.864	12.123	1.150	10.632	0.618	0.023
03042561+3112028	135287316592202880	13.014	0.991	12.625	1.302	11.042	0.700	0.191

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
03042843-3406046	5050991770433282688	10.884	0.918	10.600	1.223	9.078	0.642	0.018
03044130-3635405	5047482782152551808	11.953	0.731	11.699	1.008	10.363	0.545	0.016
03053573+2834227	115967213665888000	11.946	1.038	11.577	1.266	9.918	0.659	0.156
03060595-5251430	4746980344406420736	12.480	0.666	12.275	0.976	10.999	0.558	0.015
03080797+3836489	142648478221664256	11.960	0.651	11.799	0.852	10.854	0.472	0.127
03091996-5853578	4724087928200048768	13.027	0.874	12.800	1.192	11.306	0.652	0.017
03095592-0459281	5182694120770155264	11.961	1.051	11.659	1.357	9.862	0.669	0.063
03104602+4514503	433115020506112512	12.523	1.003	12.134	1.345	10.454	0.693	0.220
03121034-5703094	4727345712434297984	13.740	1.027	13.427	1.272	11.806	0.626	0.016
03123270-2849566	5059444369153859200	12.969	0.800	12.726	1.087	11.311	0.564	0.014
03123346-5234570	4735321737284031232	12.981	0.837	12.729	1.120	11.265	0.579	0.018
03131491-8107109	4619392843320436608	13.091	0.874	12.819	1.151	11.331	0.591	0.060
03134048-8045218	4619419089865071744	13.018	0.842	12.629	1.032	11.584	0.582	0.057
03135196+4230102	240424332130561024	12.624	0.724	12.426	1.004	10.897	0.574	0.157
03152783+3353586	137535813574478592	11.562	0.869	11.354	1.073	9.917	0.512	0.138
03155572+3357169	125528253246150656	12.397	0.981	12.036	1.304	10.348	0.704	0.162
03155933-7432577	4639776204054863232	12.619	1.093	12.108	1.356	10.446	0.759	0.057
03163710+2332211	110907432953980800	11.506	0.950	11.215	1.255	9.609	0.666	0.178
03170396-3740469	4854289415101796608	12.072	0.914	11.788	1.189	10.264	0.635	0.022
03171573-3747479	4854284497363037696	12.305	1.085	11.882	1.436	10.080	0.683	0.020
03173348-3705188	4854694001021568896	11.175	1.011	13.836	0.000	9.274	0.646	0.022
03180842+1814447	56110625281842816	11.276	0.593	10.658	1.240	9.040	0.639	0.114
03190720-5245069	4735169768457507968	12.790	0.796	12.558	1.087	11.150	0.566	0.019
03214149-5553303	4733473496892938368	12.785	0.985	12.531	1.257	10.936	0.675	0.024
03220165-0020329	3262842880464520576	12.311	0.858	12.058	1.114	10.693	0.644	0.060
03222245-3731294	4854443793406263040	12.643	0.789	12.420	1.032	11.163	0.645	0.015
03223653+0859382	11176917949244800	12.909	1.150	12.429	1.539	10.515	0.758	0.234
03242169-3515217	4860920810247328256	10.724	0.691	10.488	1.024	9.169	0.536	0.011
03242519-1550054	5106733402188456320	11.926	0.967	11.529	1.266	9.882	0.713	0.032
03252266+8009505	568038153934104320	11.696	0.993	11.388	1.352	9.645	0.644	0.199
03260086-4126000	4849648891917127424	13.010	0.855	12.630	1.197	11.099	0.693	0.010
03260534-2006507	5101544016542831232	12.887	0.989	12.513	1.252	10.966	0.706	0.027
03263031+0616326	9265348264761984	12.969	1.027	12.574	1.336	10.853	0.717	0.209
03265306-0053348	3264007336293442048	12.942	1.108	12.348	1.474	10.521	0.731	0.084
03265389+0202281	3268028903151246720	11.861	0.764	11.567	1.123	10.110	0.624	0.102
03275664-4544078	4846530329047408384	12.269	1.036	11.957	1.309	10.365	0.693	0.009
03283529-4000252	4853194778260569856	12.876	0.802	12.652	1.047	11.319	0.552	0.007
03283748+1856359	57481853722629888	12.681	0.879	12.232	1.303	10.508	0.664	0.138
03292423-6057094	4722654951015751680	12.424	0.793	12.084	1.158	10.559	0.628	0.043
03304035-0321071	3249179288121898752	12.606	0.721	12.451	1.009	11.171	0.593	0.050
03305484-0304088	3249204710032811648	12.059	0.872	11.762	1.119	10.314	0.642	0.046
03312821+0749469	11354660875621376	12.183	1.071	11.775	1.428	9.995	0.691	0.248

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
03343133-0555030	3247331455752180992	12.639	1.135	12.285	1.557	10.257	0.776	0.032
03351518+7823252	555315734952674816	12.669	0.973	12.392	1.296	10.733	0.699	0.141
03354665-1356010	5113319751716905344	12.298	0.984	11.989	1.271	10.277	0.703	0.031
03362369+2036490	58156438465188096	12.851	0.873	12.568	1.161	11.075	0.609	0.161
03362874-6005593	4728790397697259392	12.223	0.868	12.004	1.197	10.445	0.680	0.031
03365068-2327557	5086423493982030848	12.574	0.882	12.248	1.183	10.731	0.632	0.020
03365778+2917172	120001145732321536	12.384	0.940	12.057	1.306	10.343	0.690	0.217
03370393-4829266	4833641097832497408	11.865	0.941	11.485	1.204	9.955	0.658	0.009
03370580+1802236	56464972968303104	12.659	0.541	13.161	0.800	11.890	0.383	0.116
03385093-0255535	3250559347013995136	13.114	0.948	12.839	1.199	11.280	0.642	0.074
03391370+0310345	3271273935626311808	12.694	0.932	12.342	1.253	10.746	0.667	0.146
03401638-5917516	4728932754388052224	11.504	0.846	14.063	0.000	9.951	0.583	0.038
03410147-1812508	5107448320968631040	12.891	0.986	12.545	1.310	10.886	0.659	0.061
03421349+2729013	71184787964000000	12.687	0.981	12.428	1.225	10.801	0.583	0.140
03425047-1013432	5116038431655398400	13.143	0.825	12.879	1.098	11.435	0.549	0.058
03431186+7807495	554502989702092416	12.534	0.873	12.308	1.114	10.931	0.604	0.159
03435581-3212071	4863399349974669440	12.439	0.713	12.213	0.997	10.935	0.558	0.007
03440716-2841235	5080387454320334592	11.932	0.687	11.719	0.965	10.426	0.535	0.010
03440987-4057281	4854966508106088064	12.506	0.827	12.199	1.151	10.736	0.627	0.012
03445544-7517390	4628961755579625600	13.036	0.956	12.763	1.289	11.012	0.659	0.126
03453731-8211290	4616039813892309376	12.238	0.806	11.968	1.116	10.508	0.597	0.052
03462539+2125305	63534390354375040	12.581	0.995	12.262	1.376	10.453	0.668	0.166
03463330-0023036	3251527020325320960	11.489	1.222	10.909	1.637	8.988	0.783	0.189
03464056-1703266	5108001001657825280	12.844	0.759	12.585	1.067	11.199	0.599	0.053
03470283-7933197	4625542858531568768	12.726	0.912	12.471	1.150	10.974	0.629	0.070
03470366+7232599	543671700657298816	11.912	0.985	12.086	1.360	9.952	0.662	0.291
03475502-2219560	5087674875655599744	12.761	0.946	12.571	1.166	11.038	0.610	0.036
03481276-2657207	5081024380790201984	12.064	0.681	11.850	0.975	10.607	0.552	0.011
03494330-1035255	3194196834787169152	12.287	1.138	11.853	1.451	10.063	0.728	0.033
03494712-2012428	5094777381468797568	12.466	0.982	12.113	1.276	10.487	0.700	0.051
03505656+1915396	50799709243487232	12.642	1.023	12.200	1.513	10.214	0.751	0.254
03511385-1222556	5114516604484590848	12.557	0.972	12.198	1.240	10.597	0.670	0.037
03514691-4821339	4830105381971162368	12.354	0.955	12.085	1.215	10.582	0.667	0.006
03515804+7834544	554892216818025088	11.804	0.990	11.647	1.275	9.896	0.636	0.121
03522200-7822390	4626118933904711936	12.931	0.861	12.613	1.195	11.076	0.646	0.073
03525823-2712362	5080850520514122368	11.963	0.963	11.800	1.221	10.155	0.654	0.008
03532071+0332467	3272181586771744640	12.522	1.016	12.162	1.319	10.432	0.648	0.260
03535378-8214319	4616030261884997504	12.808	0.845	12.559	1.114	11.098	0.579	0.052
03542750-4930350	4829790406249501824	11.653	1.021	11.262	1.279	9.655	0.691	0.006
03550575+0448406	3273182073633848576	12.868	0.964	12.523	1.274	10.846	0.625	0.221
03551870-3540553	4858448073019453568	12.525	0.765	12.300	1.042	10.969	0.592	0.007
03552492-3137538	4886536888554252288	11.589	0.809	11.377	1.056	10.022	0.616	0.009

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
03570714+1150353	3304873572159327104	12.682	0.955	12.313	1.293	10.602	0.690	0.233
03575259-3507496	4858859741341036032	13.004	0.812	12.896	1.084	11.374	0.624	0.007
03580690-4125514	4842342190474113920	11.138	0.708	10.852	0.954	9.630	0.558	0.008
03582857+0851479	3301417188637954304	12.952	0.956	12.601	1.288	10.951	0.677	0.154
03582979-0646599	3196842083667299968	12.946	1.151	12.802	1.428	10.806	0.649	0.072
03583609-3024329	4887268613542620160	10.472	0.693	10.276	0.952	9.069	0.489	0.005
03585372-2512589	5083157811305565184	12.348	0.833	12.124	1.053	10.784	0.555	0.033
03590972-7052417	4665955133531907840	11.913	0.687	11.729	0.992	10.401	0.537	0.075
04021386-2714330	4890018148526236416	11.049	0.888	10.807	1.127	9.395	0.630	0.017
04030414-2123136	5090671530172203648	11.520	0.772	11.316	1.031	10.034	0.581	0.033
04032141-5057006	4828667358199528064	12.274	0.910	16.234	0.000	10.636	0.665	0.010
04034276+0516322	3272889569179614464	12.495	1.062	12.266	1.346	10.433	0.685	0.192
04051129-3610404	4857845781166112384	12.892	1.066	12.510	1.387	10.798	0.710	0.003
04062658-1417389	5110102993011576192	12.150	0.783	11.902	1.019	10.608	0.549	0.037
04064080-2822221	4889098510129080064	13.004	0.717	12.815	0.999	11.545	0.577	0.018
04065230-1132234	3190316692611552000	12.331	0.786	12.161	0.938	11.000	0.503	0.045
04065870-5405560	4779874227616110592	12.210	0.715	12.042	0.973	10.767	0.515	0.008
04071847-3844270	4844183765074837760	12.732	0.981	12.537	1.257	10.851	0.639	0.007
04073220-1508180	5097968885766682240	12.941	1.127	12.575	1.388	10.828	0.745	0.030
04081065-4723248	4831180463825371776	12.584	1.212	12.287	1.616	10.089	0.793	0.013
04082208-8054055	4622225700669724160	13.052	0.900	12.779	1.179	11.228	0.630	0.077
04082291-3306502	4882442375971513216	13.103	0.869	12.744	1.252	11.140	0.647	0.009
04095634-2018250	5091033814957326464	13.014	0.799	12.744	1.019	11.522	0.587	0.025
04123785-0354082	3203733925629461376	12.780	0.922	12.383	1.190	10.805	0.661	0.040
04133760-2855548	4885822480873873408	12.592	0.708	12.381	0.996	11.080	0.537	0.024
04144546-4431586	4837831066064068480	13.980	-1.200	13.584	1.493	11.727	0.745	0.014
04152012-4554089	4837327760319848576	12.415	0.944	12.124	1.208	10.605	0.651	0.011
04161576-0521188	3202575628785925888	9.559	0.534	9.458	0.697	8.769	0.556	0.067
04162853-6636540	4668867224438266368	12.733	0.830	12.482	1.105	11.040	0.602	0.028
04163240-0602269	3202394930922308096	12.073	0.815	11.993	1.094	10.399	0.597	0.053
04174265-5558407	4778645523371812480	12.989	0.983	12.758	1.224	11.078	0.638	0.013
04211598-4852031	4782730209069106432	12.155	0.777	11.909	1.058	10.512	0.581	0.009
04212925-5219577	4780985799511960576	12.954	1.027	12.626	1.287	10.995	0.699	0.010
04213031-2030287	5091573542023760384	12.685	0.912	12.411	1.163	10.946	0.670	0.032
04215801-2739310	4892329974803162752	11.013	0.989	10.650	1.285	9.085	0.678	0.044
04225741-8308401	4615741777521531136	13.002	0.979	12.687	1.266	11.071	0.703	0.089
04242725-8157493	4621912305496245248	12.847	0.741	12.637	1.011	11.303	0.526	0.063
04251520-6213209	4675852078212908416	13.049	0.829	12.781	1.123	11.338	0.594	0.025
04262201-3615167	4869018507227798400	11.518	0.805	11.294	1.068	9.904	0.580	0.021
04282895-3353452	4871041608622321664	11.872	0.930	11.627	1.179	10.126	0.600	0.020
04291257-4921466	4787721991859465728	12.017	0.806	11.813	1.078	10.447	0.655	0.013
04293837-5448372	4776030816001572736	11.356	0.961	11.019	1.262	9.475	0.652	0.005

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
04311275-2258353	4898098833139598464	12.938	0.891	12.602	1.237	10.998	0.636	0.048
04313335-7337168	4652567991051879168	12.641	0.873	12.387	1.132	10.875	0.555	0.102
04325046-3205240	4871721965802188160	10.366	0.726	10.175	0.911	9.048	0.533	0.016
04330582-1605256	3172371116657963008	11.721	0.684	11.957	0.957	10.213	0.561	0.036
04332408+7049217	500082940861162240	12.251	0.780	12.151	1.109	10.764	0.596	0.189
04332826-0431033	3201331222141772928	12.176	0.960	11.870	1.218	10.303	0.642	0.049
04334315+8752515	575291322904958208	12.989	1.022	12.598	1.425	10.753	0.732	0.300
04354147-4750031	4788319503413123200	11.313	0.672	11.154	0.885	10.097	0.481	0.009
04354314-5355093	4777636927611794432	12.490	0.863	12.235	1.154	10.739	0.590	0.004
04363802+7949143	556538739776801664	12.939	0.867	12.732	1.153	11.275	0.629	0.096
04391892-3404504	4868176796716806272	12.232	0.496	12.986	0.699	11.405	0.183	0.017
04392332-2434534	4894484605277323648	10.378	0.616	10.144	0.933	8.944	0.516	0.039
04392855-3957548	4816386358778340608	12.871	1.065	12.525	1.335	10.848	0.675	0.022
04400253-1922270	2978208560171576448	11.835	-0.025	15.859	1.237	14.194	0.701	0.034
04404386-2741005	4879633570439853440	11.668	0.806	11.429	1.085	9.987	0.587	0.038
04404847-4214219	4814898930000598272	12.832	0.807	12.567	1.116	11.106	0.567	0.015
04404877-3530531	4867833886528092288	11.564	0.970	11.294	1.224	9.732	0.646	0.015
04414545-1703252	2980627661847718016	12.286	0.787	12.033	1.112	10.587	0.614	0.041
04452944-4656234	4786751256234998272	12.671	0.907	12.409	1.190	10.909	0.722	0.009
04455221+8238074	569892445935443200	12.958	1.092	12.571	1.416	10.798	0.705	0.080
04460040-5244239	4777958977143271936	12.704	0.917	12.514	1.219	10.820	0.599	0.005
04460379-4440454	4790350855440186752	11.878	0.928	11.566	1.231	9.992	0.679	0.011
04480413-5133186	4784117101252301056	12.117	1.049	11.726	1.391	10.005	0.684	0.007
04481274-3428106	4873248568978164608	12.342	1.101	11.958	1.409	10.211	0.700	0.013
04482945-5127292	4784118686097335808	12.752	0.936	12.449	1.232	10.758	0.680	0.008
04504247-4831497	4786320148893885568	12.334	0.906	12.053	1.189	10.555	0.606	0.016
04505386+1803498	3406732187621193600	12.927	0.520	12.714	0.869	12.075	0.736	0.300
04514248-3210438	4874664052759778304	12.764	0.882	12.518	1.136	11.028	0.611	0.015
04520803-2837181	4879979504285453184	12.353	0.982	12.075	1.222	10.653	0.709	0.017
04522717-3451392	4873001625538322688	11.920	1.157	11.543	1.470	9.713	0.750	0.010
04525913-4008568	4816836269489019904	12.948	0.947	12.685	1.200	11.151	0.670	0.014
04542625-4241431	4811990171989821824	12.043	1.018	11.743	1.311	10.123	0.673	0.008
04562421-3124177	4874779806424378496	12.879	1.184	12.529	1.530	10.521	0.734	0.012
04563790-5602511	4776246457719437440	12.341	1.002	12.017	1.275	10.369	0.645	0.012
04582722-4611154	4810231400062085504	11.951	0.874	11.722	1.155	10.194	0.658	0.013
04583735-0449416	3212422747548345216	12.846	1.044	12.496	1.282	10.882	0.747	0.043
05000638+0109473	3228880619846899712	12.824	1.139	12.454	1.436	10.636	0.717	0.071
05011881+0803047	3290174403068832640	10.775	0.685	10.371	1.076	8.984	0.606	0.114
05015088-4139079	4813429157832439168	11.761	0.914	11.549	1.216	10.039	0.664	0.017
05015244+6745243	483790308838071424	12.826	0.828	13.690	1.308	11.429	0.472	0.136
05021896-5152056	4783532062283301120	13.040	0.830	12.826	1.065	11.430	0.557	0.011
05022161-4603414	4810297405118590592	12.380	1.203	13.960	0.000	10.059	0.768	0.013

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
05024868+0053487	3228646389509963008	12.935	0.933	12.906	1.145	11.371	0.617	0.100
05025851-3909387	4814331680783356800	12.059	0.564	11.953	0.748	11.181	0.503	0.022
05042173-6614399	4662031938654411008	11.623	1.198	11.236	1.462	9.315	0.678	0.095
05043110+0151252	3229000397895064960	12.559	0.683	12.442	1.047	11.131	0.571	0.062
05065541-1056146	3181964218172190464	11.319	1.087	10.952	1.365	9.197	0.634	0.150
05070417-0543063	3211326195154437760	12.447	1.045	12.031	1.451	10.206	0.746	0.077
05071155+3428162	184903053675527552	12.016	1.013	11.584	1.449	9.709	0.659	0.300
05071933+0950093	3290839985560775552	13.910	-0.390	13.706	1.342	11.886	0.682	0.162
05071949+2233222	3415364831369329024	12.921	0.920	12.784	1.271	10.802	0.646	0.300
05085713+0345040	3238657198066863616	12.106	0.936	11.804	1.224	10.144	0.634	0.081
05090948+0758512	3242001298259483776	12.780	1.040	12.434	1.334	10.698	0.659	0.181
05104812-0827001	3206923024747054080	12.345	0.895	11.981	1.131	10.583	0.611	0.084
05115864-0512205	3211775654892063360	12.181	0.844	11.830	1.135	10.339	0.643	0.119
05120490+0354513	3235687077858885248	12.163	0.825	11.903	1.094	10.478	0.546	0.084
05124167-4059465	4818944995352554496	12.776	0.908	12.485	1.179	10.979	0.599	0.025
05130026-2540113	2956447060393795200	12.943	1.058	12.609	1.354	10.872	0.673	0.017
05134078-0629405	3208349473581491968	11.724	1.137	11.353	1.407	9.601	0.764	0.114
05144882+7604501	503757371280728448	12.959	0.804	12.610	1.201	10.985	0.640	0.157
05145383+3147370	180592968094361472	11.931	0.974	11.575	1.304	9.892	0.756	0.300
05160558-1418474	2985144932353707264	12.529	1.101	12.069	1.503	10.193	0.740	0.124
05161882-0759103	3207022255670687488	12.479	0.891	12.135	1.263	10.552	0.681	0.118
05163919-0740502	3207049193707252992	12.934	0.802	13.003	1.132	11.140	0.603	0.158
05165318-1711429	2982252980551829760	11.776	1.234	11.371	1.514	9.494	0.733	0.067
05170982+0306456	3235326060087791232	12.913	0.989	12.616	1.237	11.055	0.696	0.078
05171185+7649087	551880864924665088	12.341	0.972	11.949	1.300	10.294	0.669	0.121
05172978-4253358	4800721449115828352	11.652	1.010	11.335	1.282	9.707	0.647	0.019
05175177-1441274	2985070199923468416	12.443	1.226	12.005	1.582	10.012	0.738	0.119
05180022-2418191	2958140484397025792	12.687	0.804	12.422	1.110	10.965	0.604	0.023
05181193+1750335	3395305135071832448	12.540	0.813	12.244	1.175	10.655	0.641	0.300
05181299-0356513	3213469349475577472	12.781	1.076	12.231	1.371	10.537	0.737	0.249
05183018-4217511	4806766701483968640	12.350	0.683	12.065	0.977	10.838	0.665	0.017
05183839-0208303	3214278143356960256	12.982	1.038	12.700	1.369	10.955	0.754	0.187
05191853-0625013	3207648530621533056	12.297	0.799	12.068	1.056	10.728	0.541	0.141
05202360-2522274	2957773415014463872	12.808	1.065	12.534	1.397	10.679	0.700	0.024
05204433-0757598	3207154098284136064	12.829	0.724	12.539	1.103	11.040	0.600	0.123
05211432-1032144	3014044878233010304	12.516	0.922	12.109	1.141	10.697	0.638	0.119
05221674+1850154	3401393307050179968	12.963	0.927	12.636	1.327	11.011	0.772	0.300
05224909-0008545	3221372600399707520	12.279	0.823	12.139	1.149	10.561	0.559	0.130
05232882+6904581	485426657021670784	10.751	0.582	10.643	0.837	9.426	0.696	0.096
05234159+0001547	3221399469715891712	12.626	0.824	12.507	1.120	11.072	0.634	0.130
05234178+0140465	3222180191690519296	12.475	0.873	12.238	1.086	10.846	0.535	0.131
05240221+0037377	3221857420604615040	11.534	0.718	11.300	0.983	9.858	0.572	0.104

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
05240835-0847159	3014887683958579840	12.185	0.813	12.039	1.123	10.586	0.623	0.143
05244855+3052198	3447044445721668096	12.287	0.498	12.114	0.830	10.858	0.662	0.300
05250902-4636237	4798948177378743680	12.739	1.043	12.327	1.276	10.749	0.710	0.029
05251415-6236322	4757456177662951296	12.785	1.232	12.415	1.534	10.452	0.763	0.048
05254247-2935153	2906535455902590464	12.551	0.894	11.807	1.007	10.436	0.633	0.024
05255980-1225415	2985857656406840832	12.172	0.860	12.039	1.099	10.621	0.650	0.128
05261364-0409463	3210609210495286016	12.965	0.988	12.652	1.279	10.931	0.665	0.300
05261736+0054216	3221894563481860352	12.864	0.966	12.559	1.268	10.860	0.685	0.101
05263189+5101299	261986133108337024	12.069	0.696	11.893	0.901	10.987	0.529	0.300
05270704+0208344	3222306291931030912	12.710	1.008	12.352	1.278	10.638	0.670	0.101
05271660-1148112	3009915249997569024	12.337	1.236	11.800	1.614	9.871	0.780	0.179
05272500-3754396	4821159308691479424	12.174	1.008	11.677	1.447	9.909	0.747	0.031
05284287-0020406	3220938052789255552	13.047	0.945	12.777	1.266	11.008	0.649	0.139
05284445+0105281	3221936173125954432	12.359	1.104	11.846	1.350	10.248	0.724	0.157
05291238-3538496	4822053555242274688	11.730	0.716	11.527	0.985	10.287	0.603	0.025
05293906-0037377	3220726675974365184	12.946	1.022	12.534	1.301	10.949	0.699	0.292
05310644+1002437	3338225775622947584	11.503	0.765	11.351	1.079	9.825	0.581	0.240
05310938-0734569	3016409408052028416	11.222	0.963	10.896	1.274	9.280	0.692	0.150
05311096+0119175	3221955960038003968	12.755	0.835	12.514	1.085	11.199	0.620	0.137
05313358-5942455	4759644931651720064	12.504	1.042	12.189	1.297	10.547	0.713	0.035
05314665-7729338	4623987049577991808	12.593	0.705	12.335	1.044	10.903	0.634	0.160
05315984-0724275	3016418655117200896	12.795	0.946	12.476	1.213	10.926	0.685	0.198
05322358+0426172	3236515250632113536	13.004	1.004	12.647	1.348	10.931	0.688	0.282
05323333+5054220	215399069525282304	13.043	1.214	12.644	1.427	10.899	0.690	0.299
05323416-3555512	4821789049679265536	12.733	0.832	12.558	1.096	11.165	0.662	0.028
05330330+3425560	3449578029750593408	11.528	1.081	11.032	1.544	8.974	0.655	0.300
05331754-0208154	3216941882074480000	12.984	0.863	12.622	1.127	11.176	0.612	0.294
05332244-5030257	4793470921547465856	12.655	0.769	12.385	1.083	10.978	0.604	0.029
05333204-2332171	2963722876730308224	12.888	0.773	12.578	1.108	11.164	0.617	0.027
05341283-0120379	3217572555072525056	13.045	0.949	12.832	1.257	11.083	0.647	0.300
05343131+0352284	3224421859677408384	13.330	0.944	12.939	1.354	11.148	0.680	0.257
05344241-0015449	3220804015449200384	12.364	0.696	12.112	0.963	10.897	0.583	0.241
05355964-3116059	2902351985957543552	12.696	0.892	12.475	1.166	10.866	0.641	0.026
05363390+0511260	3332736468116552192	12.907	0.956	12.561	1.298	10.862	0.692	0.300
05365678-4350228	4802513236454812160	12.170	0.769	11.925	1.039	10.574	0.537	0.032
05365967+0411503	3224519505758364160	12.582	0.837	12.263	1.105	10.853	0.606	0.300
05370169-5105089	4793302318311314176	12.940	0.914	12.529	1.248	10.954	0.689	0.028
05374341+5648268	268483082894179072	12.908	1.014	12.634	1.330	10.894	0.681	0.293
05382360+7011135	485911644728122624	11.960	0.636	11.893	0.935	10.594	0.547	0.090
05384334-5147228	4793246488033004160	13.050	0.722	12.801	1.027	11.419	0.528	0.034
05391044-2345290	2963434353708776320	12.016	0.644	12.026	0.770	10.806	0.271	0.025
05404660-1040257	3010342513344338688	12.377	0.990	12.121	1.251	10.518	0.682	0.300

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
05415000+1525054	3347851759405013248	12.570	0.974	12.209	1.348	10.512	0.698	0.300
05423307-5913398	4759918400809516416	11.932	0.781	11.662	1.098	10.243	0.608	0.056
05431543+7808008	552468274714043392	12.929	1.022	12.556	1.349	10.859	0.679	0.092
05434309+5012096	214379311147693312	12.821	0.930	13.390	1.370	11.047	0.636	0.218
05434572-2151551	2964356642107544192	12.130	1.048	11.775	1.366	10.043	0.712	0.025
05434805-2538412	2914965720791328896	12.215	0.729	12.021	0.989	10.717	0.517	0.017
05440311-6050523	4758589400489342080	12.874	0.998	12.727	1.216	10.990	0.688	0.055
05440932-3820149	4808589176366959360	12.491	0.845	12.287	1.061	10.882	0.562	0.037
05450050-2105418	2965923995930380160	12.721	1.233	12.326	1.579	10.348	0.769	0.036
05455248-2556383	2914192523598690048	12.879	0.741	12.656	1.013	11.334	0.578	0.022
05463023+4210063	192794656646602880	12.562	1.174	12.499	1.514	10.251	0.744	0.300
05463758-4103031	4804867874965676032	12.959	1.081	12.702	1.387	10.857	0.699	0.039
05464200-1802448	2967658131925635968	12.043	1.126	11.595	1.462	9.760	0.674	0.063
05472677-5432402	4767980226222674944	12.043	0.931	11.776	1.201	10.191	0.636	0.077
05483017-5835567	4765250138851402112	12.640	0.962	12.299	1.256	10.769	0.674	0.088
05483336-2434285	2915518908282121472	12.787	0.695	12.458	1.089	11.123	0.646	0.023
05483820+3148424	3445140602679798400	12.801	0.412	12.581	0.765	11.373	0.626	0.300
05505657-2008418	2966088402979538944	12.163	0.811	11.912	1.099	10.460	0.545	0.050
05511133-0653111	3018944989240573056	11.291	0.760	10.979	1.091	9.572	0.598	0.300
05521578-3953184	4805034691496015104	11.511	0.896	11.268	1.182	9.710	0.635	0.052
05530383-2007355	2966268035692065280	12.568	0.788	12.347	1.056	10.955	0.639	0.054
05531036-4113596	4804147870945271168	12.788	1.058	12.531	1.324	10.795	0.741	0.044
05542509+1632212	3349664785359713280	12.828	0.874	12.903	1.160	10.989	0.605	0.275
05544693-8301197	4620849386990258560	12.770	0.926	12.364	1.330	10.633	0.628	0.131
05545543+5131242	214916074682985856	12.915	1.269	12.627	1.294	10.862	0.673	0.166
05583688-2438574	2914576528036091136	12.300	0.827	11.999	1.207	10.348	0.625	0.036
05583844-3434436	2889188186073231104	13.005	0.878	12.775	1.214	11.182	0.633	0.029
05584204+5040146	211594935389482240	12.825	0.848	12.494	1.199	10.964	0.671	0.300
05592533-7744016	4647752959052853632	13.038	0.713	12.797	1.065	11.360	0.534	0.102
05594737-2708140	2911019229961694208	12.889	1.076	12.578	1.301	10.934	0.682	0.024
06000654-3034592	2891276807192892800	12.471	0.861	12.247	1.138	10.738	0.611	0.028
06000928+6830331	1105490157831460352	12.785	0.974	12.553	1.131	11.068	0.640	0.093
06010912-2251504	2916542798424334208	12.061	1.029	11.726	1.338	10.027	0.661	0.033
06013941-3304567	2889974641827298048	12.488	1.016	12.203	1.356	10.356	0.710	0.035
06023445-3332108	2889528175684527104	10.581	0.740	10.346	1.020	8.969	0.579	0.038
06032005-7531388	5261685578730080000	11.935	0.762	11.643	1.139	9.983	0.704	0.076
06032024-2059364	2917926946123381248	13.013	0.802	12.800	1.040	11.448	0.542	0.046
06035878-3445341	2886205760783047808	12.163	0.822	11.934	1.078	10.578	0.578	0.040
06040505-3922438	2882964602365617408	12.231	0.934	11.937	1.179	10.476	0.648	0.048
06043058-3232288	2889972447101620480	11.843	0.979	11.597	1.252	9.893	0.673	0.032
06050821-3625551	2885764135065967488	11.155	0.725	11.194	0.955	9.732	0.538	0.053
06050851+6114505	1005911306711125632	13.026	1.100	15.643	2.066	10.841	0.772	0.122

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
06050978+6654472	1105001321832556800	12.999	0.691	12.736	1.149	11.279	0.592	0.096
06052881-4438188	5567973273001201152	12.167	0.693	11.980	0.931	10.808	0.572	0.059
06055284-3537284	2885916589224697088	10.531	0.803	10.278	1.122	8.819	0.586	0.063
06055999-6907423	5279730523050938624	11.915	0.823	11.683	1.103	10.211	0.572	0.066
06063114-1605358	2991490626275600640	12.935	0.921	12.576	1.200	11.102	0.656	0.211
06063142-5032308	5549982410912756992	13.340	1.010	13.584	1.184	11.741	0.634	0.043
06074714-3724498	2884863016567274240	11.619	0.692	11.364	1.012	9.996	0.620	0.071
06085789-3536279	2885882774945629824	11.462	0.716	11.282	0.927	10.117	0.538	0.054
06090353-7122260	5278332292157596160	11.157	0.822	10.913	1.131	9.480	0.654	0.076
06120579-3152561	2895882146005313152	12.576	0.881	12.209	1.237	10.661	0.653	0.045
06134289-6937017	5279560687166096896	12.062	0.878	11.803	1.148	10.293	0.615	0.069
06135706-3555284	2885428298685730816	13.013	0.854	12.900	1.107	11.333	0.591	0.045
06155680-7459448	5261728773219036800	12.192	0.846	11.898	1.166	10.347	0.578	0.113
06171171-7328560	5265153816361777920	11.471	0.615	11.480	0.997	10.034	0.630	0.095
06181310-0348135	3116844057174980864	13.470	-0.510	13.719	1.759	11.667	0.799	0.300
06183086-2506582	2912205186393737472	12.145	1.009	11.939	1.261	10.204	0.658	0.033
06192867-8743048	5189368469885240832	11.739	0.874	11.443	1.197	9.856	0.603	0.107
06194462-2030436	2938430256702303360	12.208	1.010	11.886	1.341	10.152	0.670	0.112
06200929-5719169	5495322423720756352	11.166	0.785	10.947	1.052	9.602	0.587	0.042
06220380-2155289	2937664962250734592	12.552	0.774	12.357	1.061	10.897	0.582	0.073
06234993-5946248	5482612241102802304	12.976	0.850	14.070	1.209	12.316	0.585	0.041
06244840+7752154	1140661709439350528	12.923	1.136	12.585	1.444	10.809	0.715	0.084
06250234-4659051	5553993768631973120	10.324	0.702	10.034	1.017	8.747	0.502	0.039
06290787-6709523	5283390938997970176	12.441	0.979	12.102	1.295	10.425	0.669	0.050
06325088+6530326	1103660291306745856	12.709	1.136	12.558	1.402	10.609	0.717	0.070
06325555-4214034	5569242345641089408	12.379	1.055	12.033	1.362	10.352	0.710	0.059
06332771-3519240	5581669477032806912	11.507	0.672	11.303	0.964	10.083	0.587	0.074
06345221-4425441	5556592090703647744	12.228	1.087	11.956	1.430	10.130	0.729	0.056
06363111-2255559	2924798167948814208	13.690	1.050	13.253	1.316	11.627	0.722	0.085
06382886-8309319	5206227036859558272	12.766	0.900	12.413	1.243	10.792	0.614	0.173
06393860-3406395	5583340111934906112	13.030	1.045	12.634	1.384	10.896	0.717	0.084
06421665-5008385	5503130777344639488	12.834	0.915	12.489	1.159	11.060	0.636	0.049
06425079+7014409	1112486380380023040	13.039	0.692	12.968	1.055	11.427	0.600	0.104
06451421-3217294	5583930313459131008	12.934	0.854	12.658	1.147	11.160	0.557	0.085
06451920-0857165	3098535676741247744	12.427	0.852	12.163	1.192	10.588	0.697	0.300
06460710-4155202	5563430395897276032	12.456	0.907	12.212	1.182	10.748	0.653	0.093
06464646-4440364	5556009212103193472	12.217	0.898	11.957	1.182	10.352	0.634	0.069
06484021+1625173	3358091992230790656	12.714	1.067	12.391	1.291	10.697	0.748	0.150
06484979-2428341	2922058189267952384	12.830	-0.120	12.933	1.146	11.455	0.604	0.097
06510773+0943416	3158574272957723776	12.733	0.978	12.377	1.328	10.716	0.720	0.187
06523842+1513163	3354530639711957376	12.440	0.657	12.456	0.941	11.303	0.563	0.109
06525096+2440261	3381304160163213056	13.028	1.045	12.726	1.328	11.005	0.700	0.087

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
06525451+1446083	3354323111187785216	13.029	0.874	12.733	1.172	11.191	0.668	0.120
06533075+1226225	3351515542604966912	12.978	0.421	12.770	0.805	11.553	0.586	0.172
06533083+6836050	1103319172123035136	12.729	0.867	12.554	1.146	11.067	0.600	0.031
06554143-4313578	5562195201959849984	12.774	0.992	12.506	1.294	10.833	0.696	0.083
06560363+2846500	887636359876055424	12.823	0.915	12.596	1.155	11.108	0.637	0.063
06570150-6751413	5280814817608368000	10.818	0.932	10.520	1.228	8.918	0.610	0.110
06571276-5526234	5485259315346971136	12.680	0.815	12.446	1.128	10.943	0.569	0.080
06580901-8334199	5194228654877524096	12.858	0.927	12.487	1.295	10.862	0.687	0.159
06585640+0850479	3157301205994883840	12.181	0.724	12.542	1.164	11.037	0.604	0.115
06593152-5853177	5480647173305937280	12.560	0.949	12.234	1.275	10.574	0.677	0.074
06593924+2056439	3366133201801121536	12.716	0.747	12.489	1.033	11.118	0.547	0.081
07001955-3637535	5578346443656712960	11.727	0.803	11.401	0.973	10.314	0.561	0.200
07003916+2701430	884148846432586240	12.117	0.708	11.847	1.045	10.545	0.610	0.061
07004613+2933178	887873162895952768	12.959	0.958	12.667	1.235	11.084	0.671	0.075
07012363+1813452	3364377384810729088	12.746	0.648	12.499	1.000	11.169	0.541	0.061
07013933-5842103	5480743208774977024	12.969	0.751	12.706	1.101	11.250	0.576	0.077
07023862+0659243	3153768440772179584	12.393	0.636	12.249	0.934	10.898	0.607	0.153
07030318+4006286	947804380629842816	12.404	0.731	12.169	1.061	10.770	0.551	0.073
07033238+2225136	3368024709696717824	12.461	0.984	12.121	1.261	10.490	0.648	0.044
07035093+1955164	3365212055873231104	12.492	0.808	12.215	1.008	10.820	0.637	0.067
07041471+1901123	3364898931280232448	12.995	1.049	12.586	1.407	10.854	0.740	0.054
07041738-1908113	2932674107172462592	11.702	0.863	11.577	1.584	9.547	0.712	0.300
07041880+0246488	3115642187883221632	12.888	0.733	12.623	1.109	11.055	0.688	0.295
07041957+2340564	3368538353422137344	12.837	0.642	13.435	1.288	11.383	0.601	0.040
07054097+1733350	3361464812868710144	12.260	0.902	11.985	1.153	10.482	0.583	0.048
07070364+2657035	883254423785454080	12.659	0.748	12.437	1.090	10.971	0.547	0.051
07073503+2356476	3368586663216905984	12.837	1.196	12.425	1.383	10.670	0.680	0.049
07081426-3557115	5566430245872289408	12.784	0.809	13.548	0.000	11.204	0.548	0.300
07083867-4621128	5510018805377253632	12.211	1.051	11.654	1.337	10.009	0.764	0.101
07085997-5424564	5491233099459990528	12.703	0.674	12.487	0.998	11.164	0.538	0.106
07090577+2142312	3367308652748446464	12.976	0.917	12.747	1.195	11.182	0.655	0.048
07093534+2210136	3367373077257509120	11.956	0.638	11.824	0.789	10.969	0.536	0.050
07093868-0419118	3107527762016884096	12.269	0.534	12.039	0.889	10.692	0.625	0.300
07101117-2219008	2928210850185413120	12.886	0.785	12.543	1.122	11.087	0.692	0.300
07102845+1245411	3161108024483929600	12.687	0.773	12.420	1.104	10.962	0.587	0.045
07103372-0244311	3108335765621350656	12.491	0.686	12.263	0.956	10.883	0.541	0.235
07104970+0826444	3154409902728232320	12.977	0.926	12.670	1.229	11.102	0.650	0.088
07110190-6301262	5285981079149837184	11.470	0.700	11.241	1.002	9.954	0.586	0.104
07113988+8541053	1150345383223043712	12.825	0.852	12.623	1.107	11.209	0.563	0.082
07121704+1402591	3167279926849037568	12.940	1.041	12.593	1.316	10.913	0.684	0.059
07122036+4221574	949584631690298368	12.850	0.916	12.516	1.273	10.891	0.650	0.062
07122182-8422429	5193956796331371264	12.745	0.799	12.461	1.142	10.968	0.608	0.149

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
07122917+2231366	3367505087372386944	11.100	1.046	10.704	1.348	9.070	0.587	0.054
07122989-0700106	3052191643892060672	11.589	1.057	11.166	1.475	9.229	0.626	0.300
07123398-4814049	5508686643961355648	11.566	1.061	11.206	1.356	9.490	0.710	0.097
07123461+3153463	890055835212749696	12.508	0.928	13.236	1.361	11.557	0.720	0.055
07130783-7052481	5267185649427578496	12.918	0.976	12.668	1.258	11.005	0.617	0.162
07150401+2714015	883489998448405504	12.412	0.786	12.481	1.012	10.852	0.587	0.055
07151852-5252051	5491893184393739776	12.093	0.865	11.784	1.233	10.177	0.649	0.132
07152806-4111161	5561098267315218048	12.660	1.039	12.550	1.377	10.593	0.721	0.162
07160059+5240188	986603229693072128	12.762	0.734	12.480	0.982	11.178	0.510	0.067
07170438+2402438	869715076257527808	11.874	0.655	11.639	0.958	10.221	0.595	0.046
07174600+1259027	3166159975473025280	12.945	0.739	12.899	1.228	11.282	0.614	0.075
07174929-0924096	3048017378051885056	11.804	0.786	11.592	1.047	10.190	0.536	0.300
07175677-2704124	5616006675420673664	12.756	0.828	12.624	1.087	11.375	0.674	0.300
07181152+4406479	973981901357263104	12.923	0.928	12.515	1.161	11.177	0.669	0.071
07194881-5748087	5485933071160480768	13.020	0.994	12.478	1.345	10.703	0.696	0.112
07203081-6240451	5291814602512817024	12.955	0.834	12.614	1.268	10.984	0.662	0.110
07204786-7623393	5214066868299703040	12.797	0.804	12.543	1.095	11.108	0.562	0.195
07213106+2755248	872994571549210240	10.559	0.756	10.376	0.953	9.060	0.554	0.049
07220367+0253575	3136142616543571456	12.806	1.060	12.474	1.303	10.830	0.709	0.080
07224055+3618087	897278351003895424	12.813	0.892	12.740	1.182	10.918	0.635	0.046
07224582-2959375	5605629995767584000	13.510	0.070	12.936	1.009	11.569	0.599	0.196
07233679+1412112	3166723543901552000	12.922	0.957	12.554	1.301	10.882	0.704	0.102
07234039-2959296	5605624738733670912	11.877	0.350	15.434	1.236	13.730	0.567	0.198
07234262+1516310	3167138884419576064	12.795	0.869	12.578	1.149	11.094	0.588	0.079
07242428+5822232	989627947524580864	10.960	1.053	10.556	1.344	8.830	0.656	0.050
07254156+4948144	977051149410569344	12.991	0.814	12.868	1.065	11.549	0.632	0.071
07254769-3453506	5590014289255060480	11.036	0.790	10.889	1.090	9.439	0.633	0.300
07260648-4637077	5510340717467331456	12.657	1.031	12.306	1.395	10.551	0.765	0.191
07270798+4352580	973215713552094848	12.907	0.983	12.633	1.273	10.978	0.636	0.066
07273288+3819555	899749713837935872	12.958	1.034	12.650	1.259	11.034	0.646	0.051
07280531+1637140	3169561074176213376	11.969	0.794	11.821	1.036	10.485	0.548	0.074
07281913-8333342	5194416392190823040	11.951	0.706	11.608	1.103	10.215	0.596	0.122
07282428-3705347	5586496638018390784	12.046	0.858	11.752	1.085	10.483	0.628	0.284
07284694+8149439	1142689281896442880	11.671	0.792	11.459	1.076	10.024	0.568	0.037
07295359-6910360	5267963068571164928	12.524	0.940	12.186	1.255	10.632	0.666	0.232
07304303+4111480	900640730573598976	12.861	1.071	12.406	1.488	10.535	0.723	0.055
07310602-2742595	5611975414810555264	11.367	0.874	11.147	1.102	9.786	0.601	0.300
07311836-6659351	5269135942537559680	12.388	1.119	11.932	1.485	10.122	0.712	0.115
07314455+5553592	988736827710024704	12.938	1.057	12.520	1.411	10.751	0.727	0.059
07314605-3324217	5591704921522389888	12.662	0.359	12.472	0.762	11.170	0.738	0.298
07321280+1523588	3168444240942341248	12.809	0.905	12.657	1.193	10.907	0.626	0.045
07321479-1300309	3033439198205025024	12.868	0.893	12.841	1.461	10.920	0.746	0.297

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
07325519+3655267	898637038134266752	12.695	0.966	12.343	1.272	10.705	0.665	0.048
07331792+0531033	3141404295078246400	12.977	0.982	12.696	1.269	11.014	0.654	0.046
07333190+5310203	983909666723291392	10.432	0.246	10.322	0.564	9.304	0.709	0.050
07334024+4425362	973487288627865728	12.697	0.933	12.518	1.192	10.867	0.605	0.052
07345045+0736494	3142272222070528384	12.622	1.149	12.653	1.558	10.267	0.715	0.043
07350484-0004500	3086417752932494848	11.957	1.075	11.541	1.400	9.800	0.708	0.112
07351435+2626331	872041539782121984	13.006	0.962	12.595	1.256	10.951	0.678	0.045
07351699-4815064	5506540186806281728	12.979	0.930	12.671	1.185	11.217	0.646	0.175
07353628+1938556	672591122640513280	12.553	0.857	12.371	1.034	10.928	0.563	0.046
07354551+0455028	3138308624388237568	12.852	0.792	12.426	1.181	10.880	0.718	0.062
07354757-5036104	5493916801186715648	12.851	0.780	12.808	1.111	11.198	0.620	0.175
07363720+1126504	3162146822454143360	12.530	0.977	12.225	1.259	10.686	0.730	0.029
07363729+4034177	924375132168707200	12.343	1.120	11.945	1.433	10.182	0.708	0.048
07364486+4508331	926998601271917184	11.560	0.774	11.371	1.010	10.061	0.588	0.053
07365679+5950385	1086214756921278976	12.505	1.203	11.986	1.530	10.101	0.730	0.060
07374300-5630568	5487737374038584704	11.927	0.818	11.655	1.159	10.155	0.643	0.154
07380041-2129196	5619082589253324544	12.078	1.159	11.877	1.455	9.869	0.685	0.300
07384500-0331557	3057721981216813568	11.469	0.738	11.223	1.036	9.880	0.557	0.083
07393047-1530275	3029020260970100736	11.309	0.995	10.929	1.286	9.268	0.726	0.300
07395820+1311537	3164103029736387200	12.973	0.872	12.720	1.122	11.284	0.659	0.047
07400327-0740587	3042138568557247360	11.511	0.807	11.223	1.115	9.751	0.599	0.117
07403555+5352561	985231550281510144	11.858	1.119	11.508	1.477	9.587	0.751	0.044
07404482+1243437	3163865500863822592	11.773	1.017	11.385	1.368	9.646	0.677	0.040
07410359-6714551	5274884459907753344	12.851	1.067	12.486	1.340	10.714	0.692	0.116
07410851-5943543	5292748779377543168	12.816	0.906	12.449	1.213	10.989	0.662	0.206
07412077-2900201	5599777230966529024	12.749	0.859	12.477	1.165	10.978	0.612	0.300
07414196-0741080	3042148704679838336	13.007	0.774	13.045	1.154	11.345	0.568	0.100
07435834+1341353	3164056506649463040	12.873	0.829	12.623	1.063	11.223	0.607	0.055
07440179+0312226	3136905750633082624	13.032	0.916	12.631	1.137	11.251	0.629	0.048
07441635+5322545	984534979601381120	11.773	1.002	11.420	1.252	9.854	0.649	0.036
07443402+0742591	3145150125036773760	12.590	0.498	12.491	0.675	11.875	0.499	0.034
07443970-4425135	5532006972050819584	12.412	0.994	12.021	1.380	10.208	0.713	0.300
07445367-4653249	5530553525058225152	12.106	0.880	11.797	1.130	10.379	0.627	0.169
07450351+0956148	3148979071201226880	11.373	0.959	11.041	1.279	9.454	0.703	0.023
07450424-7231255	5263155252116820608	11.621	0.294	11.467	0.665	10.402	0.601	0.183
07451488+1000107	3149076244837702784	12.941	0.710	12.661	1.019	11.370	0.611	0.022
07452477+2524147	868026810512553856	12.828	0.983	12.615	1.197	11.003	0.645	0.039
07455398+0103107	3086833647505226752	12.837	0.619	12.691	0.785	11.845	0.529	0.070
07461952+3903325	920303430156012160	12.293	0.916	11.975	1.206	10.403	0.627	0.045
07464924-4313456	5532490211705643904	11.826	0.725	11.611	0.957	10.454	0.547	0.284
07480156-4924040	5518045893097566976	12.262	0.909	11.927	1.272	10.270	0.676	0.202
07485521+5623334	1082018707015827584	12.452	0.933	12.130	1.256	10.438	0.711	0.071

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
07494258+6938239	1098142705736502528	12.964	0.951	12.717	1.238	11.115	0.697	0.030
07503801+1119098	3150778696857500928	12.548	0.910	12.270	1.194	10.726	0.602	0.024
07504673+0558247	3143849888115383040	11.534	0.850	11.286	1.082	9.894	0.566	0.020
07533988+4933361	934072756004889216	12.418	0.674	12.106	0.983	10.799	0.528	0.043
07545950+6639532	1095319709633456000	13.017	0.819	12.800	1.076	11.409	0.588	0.035
07551255+1944081	670305998176686720	12.556	0.894	12.292	1.195	10.756	0.644	0.049
07552395+3520063	906645575890268416	12.507	1.108	12.233	1.451	10.268	0.726	0.044
07555507+8148305	1148451100783017984	12.778	1.013	12.424	1.366	10.735	0.693	0.027
07575895+4035155	922132399029177088	12.864	0.973	12.511	1.280	10.858	0.645	0.041
07580568+3504110	906456700407472512	12.810	0.781	13.873	1.219	12.313	0.622	0.047
07584532+4211214	922545677962459904	12.401	0.814	12.057	1.131	10.512	0.649	0.037
07590580+4748300	933111228791082240	12.081	0.965	11.898	1.246	10.136	0.712	0.037
08005431+3135329	878032675562889728	12.932	0.775	14.086	1.508	12.221	0.733	0.046
08005634+1633254	667243544758539136	12.465	0.753	12.095	1.148	10.581	0.581	0.031
08011676+6358383	1094412028423846144	12.264	0.993	12.000	1.219	10.471	0.668	0.043
08021251-2821568	5597762543400727680	12.014	0.140	15.980	1.435	13.905	0.604	0.300
08022771-4804247	5517895294366243968	12.952	0.865	12.637	1.148	11.151	0.627	0.236
08024574-4803573	5517708957205335168	11.977	0.894	11.872	1.201	10.135	0.618	0.240
08042788-6440110	5275614368128678528	11.911	0.749	11.670	1.070	10.258	0.570	0.141
08045600+3310059	905235555306335104	12.982	0.949	12.689	1.180	11.159	0.626	0.050
08050775+2604105	681971846610387712	11.856	0.743	11.576	1.050	10.071	0.651	0.032
08052894-6502132	5275590007074529152	12.456	0.879	12.141	1.243	10.483	0.609	0.172
08053267-6119242	5289953163686735232	12.467	0.869	12.245	1.094	10.760	0.634	0.151
08074491-5257227	5512588600272046848	11.823	0.878	11.682	1.133	10.163	0.582	0.300
08080715+5915114	1083546379639153664	12.654	0.902	12.323	1.264	10.739	0.637	0.045
08085268-6128294	5289751265864064128	12.833	0.770	12.570	1.112	11.080	0.533	0.146
08090031+2850085	876519232166668800	11.747	0.790	11.491	1.095	10.049	0.594	0.035
08092156+2521288	681134774663802496	12.725	0.892	12.428	1.154	10.931	0.627	0.038
08100860-7523572	5213699150380190720	13.017	0.902	12.696	1.250	11.057	0.674	0.119
08102898+4020333	909546843477733504	12.726	0.646	12.443	1.220	10.692	0.692	0.043
08111719+4456352	929054103899434752	12.996	0.925	12.708	1.194	11.190	0.618	0.034
08125962-7004235	5270057397705227904	12.902	1.070	12.483	1.332	10.900	0.711	0.133
08130864+3925564	909255575975553920	12.445	0.766	12.196	1.151	10.708	0.623	0.033
08135674+5113349	935284722760688384	11.897	0.692	11.889	0.970	10.434	0.557	0.048
08140229+3940332	909264917528317952	12.106	0.808	11.816	1.230	10.274	0.684	0.033
08152203+3827587	908032124475412224	12.441	0.795	12.265	1.066	10.819	0.594	0.035
08153796+6531162	1092014470303207552	12.335	1.157	11.990	1.351	10.275	0.670	0.042
08162824-4611151	5519745360123251200	11.715	0.880	11.438	1.078	10.084	0.587	0.300
08173327-2728418	5693425380770623616	12.591	0.870	12.464	1.160	10.892	0.586	0.187
08182058+5923087	1083715257753356800	12.184	0.872	11.876	1.284	10.112	0.721	0.061
08202927-2458369	5696053561463700992	12.244	0.922	11.938	1.140	10.559	0.618	0.116
08204593-7457097	5219742375524510720	12.547	0.738	12.478	1.054	10.925	0.605	0.114

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
08225420+6259266	1090362836337748864	12.783	1.104	12.472	1.302	10.825	0.689	0.034
08242044-1026147	5751499802540091776	13.047	1.054	12.691	1.371	10.879	0.735	0.033
08244155-6859542	5270209581283002240	11.994	0.732	11.808	0.987	10.575	0.572	0.113
08255445+7726501	1137625614237615232	12.980	0.830	12.753	1.109	11.364	0.625	0.026
08282505-2119200	5706111756390126080	12.989	0.611	12.644	1.131	11.016	0.601	0.089
08284828-2858468	5644860540592289536	12.711	0.764	12.554	1.070	11.050	0.694	0.153
08295142-2428117	5695713503130206848	12.814	0.864	12.607	1.141	11.092	0.593	0.092
08295611-1354544	5722897519371974272	12.216	0.925	11.925	1.217	10.285	0.587	0.048
08302532-6949046	5221888519143226240	12.209	0.982	11.849	1.358	10.106	0.675	0.112
08312114-2126535	5703185367534835584	12.154	0.839	11.789	1.170	10.312	0.606	0.085
08315869+6949533	1121420775645432320	13.021	0.702	12.776	0.960	11.528	0.527	0.032
08322899-2137273	5703121870736546304	12.228	0.997	12.032	1.294	10.202	0.699	0.087
08331960-1350331	5722870096004958208	12.078	0.670	11.889	0.999	10.412	0.605	0.049
08343393+7518493	1125113279289236096	11.158	0.741	10.977	1.087	9.518	0.642	0.019
08350584+4839306	1026860572337001088	12.287	0.719	12.047	1.096	10.634	0.600	0.028
08355055-2033433	5703594458875614848	11.411	1.178	10.943	1.525	9.126	0.772	0.077
08355851-0839549	5753641990492978816	12.938	0.808	12.673	1.091	11.231	0.581	0.037
08360617-0450149	3065446698936865152	12.610	0.990	12.138	1.336	10.424	0.663	0.030
08364858+7742308	1137832945195154560	12.697	0.742	12.489	1.045	11.161	0.578	0.017
08370406+7830159	1138150772775117312	12.553	0.752	12.345	1.058	10.944	0.581	0.018
08400533-4428341	5522379549464634752	11.201	1.167	10.778	1.492	8.855	0.654	0.300
08401347+4216411	913518485634602112	12.151	1.011	11.631	1.314	10.049	0.684	0.020
08413166-0629117	5754432023955507712	12.784	0.712	12.602	1.022	11.034	0.623	0.023
08422928-0849161	5750516216373911680	12.176	0.847	11.986	1.110	10.494	0.597	0.028
08430958+6038165	1041278571391227392	12.858	1.002	12.476	1.306	10.902	0.732	0.075
08433739+6717034	1093203940022382720	12.603	1.150	12.157	1.600	10.183	0.747	0.029
08434698-1812314	5705872333433002880	11.974	0.897	11.687	1.168	10.173	0.599	0.068
08441851+0346257	581348807340055424	12.468	1.184	12.025	1.539	10.055	0.734	0.033
08443695-7241450	...	11.497	0.929	...	...	9.440	0.675	0.118
08444676-2845157	5642803457417047552	12.763	0.872	12.515	1.190	10.849	0.711	0.147
08445228-7438443	5216771215930182912	12.975	0.841	12.634	1.121	11.189	0.586	0.121
08454426-2141380	5702387126388268160	11.438	0.995	11.126	1.254	9.481	0.675	0.139
08460663-0426024	5761503056249343360	11.639	0.786	11.239	1.122	9.558	0.684	0.020
08472137+5830138	1040480914362286592	12.326	0.852	11.996	1.161	10.492	0.618	0.055
08473213+0548147	582973163970364416	11.616	0.773	11.337	1.072	9.961	0.568	0.041
08490347-6323398	5297691668265349120	10.503	0.558	10.358	0.793	9.683	0.672	0.159
08490462-6853235	5223489373715006976	12.246	0.870	12.032	1.092	10.626	0.548	0.102
08494240-3836003	5621994959343177856	11.410	1.019	11.110	1.266	9.370	0.706	0.300
08501165+4242063	913730107265419136	12.504	0.836	12.166	1.365	10.472	0.698	0.023
08511780-2736072	5648942030830217344	12.453	0.835	12.204	1.132	10.747	0.618	0.099
08514213+1250467	608133907024045952	10.987	0.865	10.752	1.159	9.200	0.619	0.027
08515469+5402598	1029765967389921408	12.648	0.675	12.587	0.993	11.159	0.556	0.020

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
08523133-0804579	5750792365590211328	12.177	0.928	11.860	1.237	10.292	0.697	0.032
08524186+6924318	1118241228535948672	12.099	0.838	11.771	1.111	10.373	0.584	0.031
08525722+6423125	1044196095432573952	12.852	0.807	12.572	1.178	11.081	0.577	0.070
08533398+1644112	611494731817426560	12.944	0.826	12.641	1.203	11.004	0.626	0.019
08543649-4744205	5328756032854574592	11.770	1.115	11.271	1.611	9.208	0.722	0.300
08544986-1159089	5736694942894396672	13.016	0.855	12.834	1.158	11.203	0.673	0.043
08554225-6955045	5222449162695490432	12.469	0.729	12.211	1.073	10.762	0.549	0.078
08565578-7603590	5215675105917524608	12.759	1.109	12.624	1.491	10.347	0.786	0.104
08571123+0040261	576743880843785088	11.615	0.982	11.370	1.237	9.790	0.699	0.033
08571600-6556117	5296305287178801280	11.803	0.737	11.578	1.051	10.173	0.537	0.127
09002061-2220490	5654811563195280512	11.955	0.821	11.733	1.051	10.337	0.576	0.204
09002174-3342353	5627698985144472448	12.858	0.758	12.559	1.084	11.075	0.683	0.256
09012132-7055369	5222157448519411584	12.492	0.839	12.334	1.079	10.875	0.562	0.082
09023125-0810363	5755853112670730112	11.186	0.971	10.880	1.235	9.349	0.656	0.036
09030506-2047415	5656156368995636608	11.327	0.956	11.024	1.223	9.426	0.646	0.151
09030861-0427115	5759379998080221824	12.279	0.702	12.029	1.004	10.612	0.591	0.018
09040262-0523492	5759068836288541696	12.095	0.958	11.793	1.200	10.260	0.679	0.017
09043992+0733498	584226980887837824	11.406	0.789	11.128	1.094	9.728	0.579	0.049
09050894-2050426	5656143484093610368	12.597	1.030	12.418	1.298	10.637	0.686	0.131
09065688+5836407	1036942720302654080	12.745	0.669	12.677	1.046	11.365	0.592	0.029
09073395-0340147	5759902820154063744	13.027	1.032	12.636	1.330	10.990	0.745	0.018
09090697-0324211	5759936900718820864	12.938	0.790	12.682	1.081	11.273	0.581	0.018
09093944-2006527	5679552155368264704	12.953	0.870	12.708	1.109	11.261	0.548	0.129
09102690+6033156	1039441978952648064	11.630	1.218	11.500	1.278	9.826	0.684	0.039
09103058+6419220	1043675820274039040	12.681	0.884	12.379	1.325	10.685	0.678	0.100
09104309-1444185	5731383034718059520	12.118	1.008	11.779	1.299	10.132	0.649	0.044
09110582-2014595	5679493090978018304	11.381	0.948	11.092	1.214	9.597	0.642	0.122
09110758+0217287	3843821216808928512	12.946	0.853	12.741	1.131	11.207	0.604	0.030
09114163+1017524	591768294919763072	12.091	0.961	11.794	1.237	10.211	0.673	0.049
09122631-0037340	3842047846288227712	12.098	0.946	11.855	1.271	10.133	0.643	0.027
09123863+6218061	1040178033268005504	12.458	0.632	12.303	1.035	10.911	0.563	0.037
09131573-1716172	5682721055254568576	11.553	0.881	11.259	1.169	9.792	0.670	0.040
09152673-0018170	3842238950857112064	12.998	0.832	12.676	1.185	11.080	0.693	0.026
09155397+1212314	593696288558989312	11.329	0.704	11.109	0.956	9.811	0.548	0.023
09161100+0140496	3845027557158758144	11.954	1.163	11.428	1.530	9.574	0.727	0.021
09164357-0512382	5758526021141799552	12.727	0.915	12.428	1.220	10.875	0.667	0.031
09171078-6147067	5298830659236242688	11.059	0.874	10.803	1.189	9.263	0.625	0.157
09172903-1021252	5742681753643854464	12.118	1.124	11.602	1.521	9.741	0.737	0.047
09180855-0852126	5743138252832504576	12.184	0.825	11.910	1.130	10.418	0.573	0.037
09184848+0713360	586821454667385344	13.005	0.759	12.741	1.060	11.362	0.566	0.035
09185431+1211488	593613206711676800	13.016	1.051	12.569	1.413	10.839	0.700	0.025
09201726-0554052	5746372328846303360	12.956	1.148	12.760	1.445	10.785	0.743	0.026

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
09205040+1820344	632540488180370176	13.046	0.854	12.901	1.185	11.172	0.627	0.024
09214717+6219538	1040038326571016704	11.446	0.842	11.220	1.174	9.725	0.612	0.034
09220002+0957599	592248296169483264	12.714	1.084	12.225	1.373	10.495	0.720	0.034
09221426+5824580	1038229698662764160	12.175	0.679	12.048	1.026	10.705	0.536	0.026
09221563-7701423	5203340376458000128	11.493	1.020	11.165	1.332	9.542	0.718	0.262
09222115-4317486	5424356193758211456	11.999	0.760	11.532	1.154	9.970	0.701	0.300
09230164+5819465	1026218874158310272	12.348	1.106	12.516	1.587	10.012	0.771	0.026
09270301+4204494	814375831397158144	12.841	0.874	12.596	1.116	11.178	0.632	0.014
09270844+1544438	630694854833847168	11.902	0.798	11.632	1.119	10.126	0.549	0.026
09282183-3930462	5429709754532474880	11.963	0.828	11.654	1.119	10.273	0.661	0.300
09285510+1543302	619055111209080832	12.443	0.790	12.221	1.059	10.821	0.561	0.025
09290292+3549540	798505274404072832	12.186	0.753	11.992	1.049	10.453	0.640	0.014
09291542-1847544	5678392273680123520	12.099	0.794	11.841	1.080	10.409	0.647	0.052
09301030+0243320	3844656021013252992	12.875	0.828	12.576	1.155	11.064	0.596	0.047
09304755-3932097	5426696130598924416	11.896	0.926	11.557	1.279	9.917	0.663	0.300
09304964+8016095	1144494542550685824	12.010	1.092	11.631	1.405	9.870	0.692	0.025
09313142+7905121	1132002131953311232	12.468	0.881	12.251	1.125	10.845	0.656	0.019
09315651+2335316	644413044801144064	12.579	1.104	12.337	1.137	10.889	0.636	0.029
09325648+1823093	633101995024420480	11.036	0.760	10.792	1.070	9.389	0.579	0.028
09341289-8700397	5189077198087438208	11.608	0.832	11.354	1.120	9.952	0.630	0.169
09343649+1036027	589530578303563648	12.699	0.721	12.447	0.983	11.156	0.547	0.028
09344298+0353574	3851012229012923264	12.869	1.032	12.529	1.315	10.856	0.685	0.031
09345116+1214576	614001725703023488	11.919	1.108	12.151	1.392	9.792	0.711	0.020
09372216+0925058	588581463545772928	11.335	0.839	11.073	1.096	9.674	0.648	0.031
09375748+2559307	645906319030740864	12.783	0.990	12.447	1.264	10.879	0.677	0.017
09382460+4205266	813812915803635712	12.100	1.114	11.826	1.214	10.286	0.706	0.011
09383941+1227080	614063912534411136	12.431	0.807	12.141	1.103	10.693	0.594	0.017
09384661+7833575	1131785214629423488	12.866	0.724	12.673	1.013	11.335	0.548	0.019
09391251+3445386	797731523158972416	12.333	0.951	11.964	1.187	10.383	0.667	0.010
09403979+2921557	696431047286005632	12.074	0.649	11.872	1.054	10.480	0.527	0.019
09455700+2135550	640001361769756032	13.047	0.936	13.108	1.266	11.120	0.691	0.024
09472261+3354159	794484841418902912	13.030	0.732	12.712	1.091	11.315	0.587	0.011
09473545-2638039	5658256784099611008	12.683	0.596	12.792	0.797	11.644	0.517	0.080
09474496-7045530	5242578991517893120	12.040	0.890	11.755	1.208	10.161	0.640	0.144
09485248+1837465	627201117981349888	12.590	0.779	12.299	1.104	10.846	0.597	0.022
09485477-3811139	5432401118477539456	11.964	0.392	11.496	0.614	10.678	0.548	0.139
09491888+3201060	793274382192849664	12.827	1.016	12.502	1.221	10.942	0.621	0.016
09501353-7925417	5202088268933375232	12.475	1.140	12.036	1.497	10.145	0.712	0.220
09502173+3716070	799953365577763712	12.637	0.944	12.307	1.190	10.769	0.689	0.012
09502215-6930058	5243501550494934400	13.021	0.874	12.652	1.129	11.187	0.625	0.163
09513068-3848520	5432133353036744448	12.826	0.686	13.945	1.323	12.221	0.732	0.193
09513210+3330203	793674978087183616	12.502	0.939	12.106	1.302	10.486	0.672	0.012

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
09532759-2717101	5657259969431486336	12.979	1.013	12.591	1.314	10.956	0.689	0.068
09535089+3329284	794978139884594560	12.995	0.711	12.781	1.004	11.473	0.535	0.013
09541478+2735210	647086477259746176	12.656	0.931	12.427	1.149	10.848	0.616	0.016
09545564+6756128	1069803755602231168	10.770	0.989	10.461	1.285	8.838	0.658	0.083
09553934+4319179	808168980883073792	12.336	0.746	12.086	1.034	10.722	0.636	0.010
09555639-2403072	5660496214405409152	11.502	0.771	11.148	1.024	9.823	0.588	0.049
09560894-5924282	5257538328273646336	11.466	0.912	11.175	1.136	9.733	0.650	0.300
09574469+1400136	615228711960558464	13.047	1.031	12.697	1.305	11.078	0.672	0.018
09580008-4318227	5418253457547492096	12.027	0.819	11.588	1.173	9.928	0.694	0.237
09580109+2933087	743582087319504640	12.974	0.957	12.558	1.338	10.834	0.629	0.016
09593411+3708378	796772718958610304	12.694	1.112	12.276	1.415	10.480	0.693	0.011
09594843+7246373	1125921282896321792	12.993	0.532	12.797	0.933	11.604	0.500	0.030
10003325-2537597	5658983939239396352	12.333	0.859	12.216	1.132	10.632	0.612	0.055
10020621-1554291	5673966327061493760	11.905	1.120	11.445	1.483	9.623	0.701	0.042
10030615+7054115	1071492949060164992	12.657	0.784	12.365	1.140	10.866	0.568	0.081
10033379-2329108	5665883610926876672	12.670	0.961	12.351	1.240	10.837	0.659	0.052
10045623-4228179	5418445670219076224	10.895	0.704	10.692	1.030	9.361	0.528	0.142
10052247+3945408	803621576887555840	12.758	0.774	12.471	1.113	11.001	0.617	0.013
10053264-1827501	5672581221584085504	12.482	0.958	12.169	1.261	10.587	0.720	0.035
10063882+2403476	630450488374469120	12.251	0.937	11.989	1.202	10.410	0.610	0.037
10075999-2736413	5465659970825328896	12.078	1.013	11.773	1.354	10.047	0.751	0.069
10085157-3236041	5459310600414841856	12.076	0.954	11.737	1.318	10.020	0.691	0.072
10100365+2227088	629233049829242368	13.026	1.118	12.648	1.501	10.732	0.740	0.025
10111521-6620282	5245373292941453952	12.244	0.825	12.178	1.100	10.680	0.607	0.188
10115056-4309343	5415268253418659200	11.792	0.771	11.542	1.001	10.320	0.588	0.134
10115917+5502205	852773418843119616	12.343	1.073	12.157	1.306	10.411	0.694	0.008
10121964-3221347	5459373341297312384	11.095	1.033	10.752	1.327	9.133	0.692	0.079
10124027-2249482	5666123373181152000	12.506	1.037	12.210	1.337	10.487	0.705	0.060
10124666+4624575	810408381126766592	12.926	0.725	12.636	1.026	11.302	0.558	0.007
10143521+2324515	725459455633859840	11.535	0.836	11.344	1.119	9.986	0.652	0.018
10151784+5551061	853205526912187264	12.837	1.004	12.481	1.321	10.914	0.706	0.007
10152469-1057352	3767574556484311424	11.831	1.199	11.437	1.424	9.671	0.720	0.052
10152705+6456284	1053650967717923072	12.204	0.976	11.926	1.298	10.255	0.668	0.025
10160573+6533551	1065697491989952896	10.843	0.876	11.045	1.033	9.273	0.633	0.033
10171294+4654224	810350480671638784	12.356	0.936	12.153	1.071	10.613	0.617	0.008
10193367+7257464	1077961238527864704	12.645	0.906	12.585	1.297	10.671	0.664	0.064
10203763+7221398	1077708213414112128	12.334	0.799	12.020	1.147	10.481	0.604	0.057
10211155+4557314	809444964126986240	12.049	0.965	11.794	1.194	10.214	0.619	0.010
10213675+7058455	1076692848785487104	11.920	0.752	11.727	1.086	10.250	0.598	0.088
10221281-4123416	5416543996142159488	12.152	0.829	11.876	1.140	10.372	0.579	0.098
10244576-7355423	5229049672736749184	12.370	0.942	12.105	1.170	10.721	0.687	0.189
10250250+7723238	1128041244394048000	12.907	0.802	12.698	1.104	11.260	0.574	0.024

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
10263327-2231158	5475397761196528896	12.884	0.984	12.560	1.245	10.938	0.669	0.080
10280894+4658364	833602269677094272	12.257	1.170	11.877	1.307	10.244	0.677	0.011
10281330-2946530	5461386169127203200	11.255	1.032	10.995	1.278	9.269	0.706	0.038
10295444-0801026	3774466329726812672	12.999	0.714	12.727	1.059	11.333	0.579	0.050
10340832-7354406	5229004382300835840	11.526	0.963	11.219	1.240	9.658	0.656	0.180
10350987-1416284	3750801231724757760	12.915	0.779	12.677	1.065	11.263	0.536	0.056
10352666+4804049	834056058741414400	12.049	0.648	11.801	0.942	10.552	0.510	0.013
10363889-1917043	3554709655102839552	12.192	0.646	12.005	0.999	10.580	0.593	0.044
10371075-1056303	3760861312146553216	12.564	0.955	12.230	1.213	10.627	0.656	0.048
10375744+4851237	834186007272278016	12.960	0.991	12.690	1.289	10.967	0.670	0.009
10382409-5248250	5354554767533822336	10.977	1.040	10.614	1.360	8.883	0.672	0.300
10383538+4953297	835062146240700160	11.800	0.945	11.530	1.126	10.075	0.613	0.012
10385482-0518037	3776786466765131520	12.410	0.883	12.070	1.201	10.544	0.669	0.042
10391495+7348283	1078279478424242432	12.970	0.729	12.771	0.981	11.567	0.529	0.083
10391566+7340387	1078266108189870592	12.504	0.777	12.524	1.024	10.998	0.618	0.114
10394895+3459288	750368410525129728	11.721	1.037	11.435	1.271	9.816	0.683	0.021
10420484+0246381	3857349504797962496	12.485	0.854	12.214	1.122	10.740	0.604	0.034
10425611-6355510	5239913019452422784	11.899	0.867	11.619	1.124	10.179	0.642	0.300
10430163-0230226	3802519784793984000	12.909	0.960	12.609	1.300	10.879	0.663	0.058
10430365-0643033	3776307354572694272	11.952	0.572	11.363	1.078	9.793	0.604	0.040
10432543+7515589	1126646406518426752	12.519	1.083	12.096	1.461	10.321	0.712	0.065
10440416+7616213	1128438924005715456	12.923	0.716	12.673	1.059	11.334	0.566	0.026
10440597-0853008	3762337131628855680	12.607	0.981	12.302	1.259	10.627	0.625	0.034
10453280+0345108	3857542022411847040	12.557	0.955	12.248	1.224	10.703	0.660	0.038
10493965-1719329	3556866862556915072	12.389	0.779	12.112	1.092	10.706	0.596	0.038
10502726-2300446	3549234430794364160	12.809	0.765	12.582	0.998	11.265	0.539	0.064
10511274-0817026	3763102327298064128	11.640	1.104	11.283	1.339	9.639	0.654	0.030
10521859+0528265	3864195618243548032	12.831	1.089	12.473	1.365	10.795	0.705	0.025
10530608-2253102	3549276036141218176	12.388	1.014	12.041	1.309	10.380	0.707	0.060
10531802-0055302	3803159838000339200	12.329	1.026	11.986	1.285	10.336	0.676	0.043
10540939-5233263	5359711992455305344	12.296	0.990	11.935	1.282	10.340	0.698	0.300
10541225+0549178	3864303022490267136	11.707	0.729	11.463	1.047	10.103	0.599	0.028
10543311+0528128	3864140775805950208	12.915	0.733	12.657	1.050	11.220	0.533	0.027
10554570-1654038	3556496876894238464	11.881	0.870	11.617	1.121	10.152	0.586	0.046
10563216-0555480	3764649748179457280	12.859	0.983	12.556	1.324	10.888	0.759	0.028
10570875-5207081	5359563558390131968	11.983	1.150	11.517	1.478	9.732	0.745	0.300
10582963+0011130	3804842056430901120	12.776	0.632	12.484	0.999	11.162	0.513	0.037
10590836-6924479	5231719699295439488	11.022	0.929	10.743	1.152	9.285	0.580	0.181
11000776+4630029	783425712959288576	13.010	0.852	12.723	1.088	11.327	0.598	0.009
11004069-1102492	3758563126686411776	12.984	0.687	12.358	1.195	10.793	0.617	0.024
11010971+1310060	3967986487953405312	12.961	0.772	12.712	1.050	11.354	0.604	0.012
11023256-0636095	3787611983373749120	12.562	1.169	12.165	1.399	10.461	0.746	0.034

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
11023598+0102539	3805298933576500480	12.638	0.742	12.362	1.058	10.965	0.549	0.026
11051574-4752557	5362354531210538624	12.040	0.733	11.785	1.058	10.278	0.602	0.143
11051929-1329347	3564247918473953792	12.142	1.057	11.752	1.346	10.096	0.674	0.034
11064962-5323068	5347385401964090240	11.795	0.285	11.689	0.587	10.671	0.597	0.247
11065789-4643237	5386525267120422912	12.850	0.936	12.630	1.235	10.970	0.629	0.110
11065939-4920517	5362109546275295872	10.797	0.680	10.669	1.027	8.920	0.620	0.162
11090121+0754418	3818459160048340352	12.400	0.958	12.057	1.270	10.443	0.660	0.025
11092807-0242021	3791025112280181248	10.486	0.710	10.356	0.923	9.201	0.542	0.048
11093391+2327348	3995259156621469440	12.492	0.903	12.214	1.249	10.525	0.648	0.014
11112337+6943386	1074121743923049344	12.633	1.180	12.201	1.578	10.280	0.740	0.013
11132240-0910000	3783099076553128064	12.966	0.876	12.755	1.137	11.300	0.606	0.030
11133490+1015249	3963264914441096320	12.197	0.724	11.933	1.023	10.593	0.579	0.014
11144345-1133225	3566319673258222208	11.874	0.942	11.577	1.226	10.039	0.698	0.046
11172319-5030507	5349769001420934784	12.413	1.006	12.063	1.306	10.371	0.639	0.197
11213850+3100109	4023379441379492096	11.489	1.071	11.304	1.324	9.640	0.749	0.015
11215118-4555200	5376213596097250176	12.563	0.854	12.325	1.107	10.936	0.636	0.122
11232110+6118098	862722319742958592	12.083	0.729	11.865	1.064	10.467	0.568	0.009
11235327+0025363	3797935886458318336	11.025	1.042	10.698	1.296	9.070	0.701	0.029
11242364-0642128	3785352182036872320	13.027	0.826	12.716	1.167	11.223	0.610	0.031
11245109-0118132	3796858154608999424	12.546	0.961	12.217	1.263	10.589	0.660	0.038
11245186+8132096	1133615145575572992	12.589	0.842	12.378	1.128	10.969	0.618	0.040
11251752+4810412	789033325338645888	12.631	0.600	12.423	0.938	11.233	0.519	0.015
11252946-0035203	3797041055791986048	12.769	0.833	12.456	1.161	11.012	0.681	0.025
11255206+5922341	859132616140394880	12.670	0.935	12.429	1.179	10.867	0.610	0.012
11260849-0718091	3591618782978505472	12.537	0.717	12.317	1.020	11.039	0.536	0.027
11264720+2321085	3992675231281619584	12.967	1.026	12.568	1.246	11.012	0.685	0.015
11284462+1159546	3917369061419260928	12.784	0.961	12.527	1.197	10.972	0.658	0.028
11293922+6718355	1057741219692489856	12.798	0.826	12.555	1.158	11.075	0.609	0.009
11320178+4540156	784645621097082624	12.632	0.626	12.354	1.007	11.020	0.532	0.017
11322424+7217439	1075031310621259776	12.715	1.055	12.338	1.390	10.586	0.675	0.023
11332470+1251440	3917497017084939776	12.264	0.998	11.952	1.273	10.326	0.677	0.036
11343570+1932184	3977488952772409856	12.353	0.939	12.105	1.256	10.471	0.692	0.022
11344124+5314269	841082728317714048	12.838	0.782	12.624	0.946	11.377	0.507	0.008
11351928-3430096	3477077051780069632	12.992	1.069	12.567	1.412	10.754	0.716	0.069
11364104+3220057	4024512758694334336	11.965	1.155	11.500	1.505	9.632	0.699	0.021
11372004+1845309	3974320228980706816	11.964	0.859	11.692	1.159	10.186	0.611	0.024
11373800-5202251	5345681227653768064	11.785	0.878	11.487	1.216	9.891	0.597	0.180
11381456+1534117	3972403604119095808	12.751	0.895	12.483	1.119	11.119	0.656	0.026
11403298+6340440	864134573709331584	13.046	1.013	12.828	1.189	11.286	0.734	0.027
11415054+5035361	790901636102569472	11.967	0.832	11.674	1.163	10.204	0.602	0.018
11423344+0800282	3910233647567741056	12.187	0.776	11.940	1.066	10.543	0.579	0.020
11444533-4644384	5372404612941931392	12.875	0.861	12.607	1.112	11.125	0.562	0.103

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
11465844+4835156	787263141676539648	12.416	0.890	12.287	1.191	10.659	0.637	0.016
11471027+0341265	3895958344506982784	12.642	0.845	12.393	1.084	10.988	0.582	0.020
11483814+1952557	3976143459777843968	12.295	0.855	11.989	1.170	10.472	0.599	0.031
11492027+3132066	4021576517188258688	12.957	0.894	12.638	1.204	11.151	0.675	0.019
11505337-8036338	5199459645869304704	12.301	0.772	12.052	1.105	10.602	0.578	0.300
11515346+8151152	1133680021057772544	12.463	0.783	12.230	1.087	10.792	0.563	0.069
11515556-4738558	5371554866553160960	11.587	0.915	11.291	1.206	9.724	0.633	0.086
11524486-4709547	5377584485241041408	12.947	0.860	12.935	1.162	11.365	0.592	0.080
11541040-5208317	5368942804889403520	12.432	0.689	12.263	1.326	10.587	0.686	0.129
11543955+7023508	1061694681253422336	12.631	0.763	12.341	1.096	10.838	0.590	0.015
11545004+4749009	786606630149557248	11.929	0.703	11.676	1.100	10.284	0.615	0.020
11564526+3145522	4026626810316850048	12.743	0.941	12.392	1.269	10.765	0.692	0.018
11593802+2922115	4008146360612154112	12.415	1.074	12.065	1.279	10.444	0.675	0.016
11595151-3905280	3459312659023799552	12.951	1.089	12.579	1.411	10.744	0.713	0.136
12001449+1641370	3925430066494830336	13.018	1.115	12.561	1.518	10.657	0.726	0.038
12004306+2949116	4008186046109996672	12.344	0.813	12.069	1.047	10.688	0.556	0.017
12005811-3929233	3459242084121356288	10.800	1.000	10.471	1.295	8.822	0.668	0.138
12022430+6255274	1582997852929561600	12.625	1.106	12.453	1.328	10.656	0.706	0.021
12034594+3035029	4014343925404883328	12.520	1.086	12.214	1.330	10.440	0.671	0.016
12052554-4408587	6147464275054037120	12.019	0.773	11.906	0.976	10.554	0.556	0.135
12055188+1735548	3925930962760630656	12.853	0.707	12.651	0.936	11.419	0.486	0.032
12070423-5345229	6076898344653529344	12.318	0.893	12.020	1.236	10.383	0.604	0.173
12070444+7600223	1692730414755815552	12.187	0.848	11.995	1.147	10.484	0.608	0.057
12074090+3519591	4029760766348866944	12.522	0.778	12.300	1.080	10.864	0.613	0.015
12083074+3954084	1536035581002935424	12.984	0.599	12.746	1.176	11.226	0.625	0.024
12094665+6450371	1585030811273958400	12.575	1.079	12.326	1.310	10.668	0.695	0.015
12100140+4520564	1539687570219614080	12.871	0.609	12.648	1.029	11.291	0.565	0.011
12104009+7032545	1684079324125218944	11.542	0.563	11.468	0.804	10.227	0.496	0.014
12111339+2220415	4001468785978496768	13.061	0.947	12.774	1.213	11.254	0.656	0.027
12132563-3800203	3461061226110222080	11.265	0.814	11.086	0.958	9.917	0.488	0.074
12143659-1517191	3569366385619378432	11.652	1.043	11.301	1.308	9.677	0.664	0.048
12155841-3547529	3461905891557813248	13.500	0.650	13.255	1.221	11.669	0.595	0.068
12161019+4524243	1538985944361745536	12.483	0.783	12.168	1.325	10.447	0.657	0.010
12181234-3721065	6151711177372668928	14.909	1.094	14.540	1.337	12.825	0.714	0.095
12214951+4244520	1538031641283723008	12.867	0.824	12.527	1.286	10.895	0.643	0.016
12221869-3853368	6150224495918526848	12.459	0.791	12.173	1.100	10.732	0.598	0.069
12240228-7202466	5842561802238077952	11.904	1.120	11.509	1.537	9.514	0.659	0.300
12245683+7007242	1683832243246834304	12.609	0.912	12.153	1.187	10.647	0.717	0.018
12261008+3926273	1532300402563759360	12.216	0.600	12.315	1.088	10.522	0.628	0.016
12280652-3319179	3468446817511036160	12.967	0.829	12.674	1.126	11.190	0.574	0.071
12284069+1942295	3948963287525544576	12.587	0.818	12.301	1.160	10.779	0.615	0.032
12293447-3233073	3468579201286803200	12.589	0.974	12.273	1.244	10.616	0.642	0.083

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
12334194+1952177	3949121587136124160	13.001	1.095	12.631	1.391	10.894	0.701	0.025
12335935-3246361	6160173770478603520	12.684	0.772	12.399	1.022	11.162	0.611	0.069
12335980-2944042	3471719754389184384	11.216	0.788	10.962	1.094	9.549	0.583	0.067
12340964-3453438	6158168604865990016	12.000	0.904	11.687	1.207	10.112	0.608	0.053
12342913+4826025	1543862488889757568	12.799	0.867	12.527	1.117	11.081	0.604	0.013
12353682+4854057	1544253571429564800	12.646	1.150	12.247	1.394	10.523	0.708	0.013
12353793-4301524	6145744883683553408	11.745	0.907	11.473	1.151	10.010	0.592	0.061
12360829-7040522	5843251466600455808	12.234	1.026	11.830	1.501	9.874	0.659	0.300
12363406+4334497	1540600409684268032	12.623	0.960	12.291	1.184	10.883	0.557	0.019
12382743-3400315	6158315870705750912	12.795	0.856	12.536	1.124	11.048	0.588	0.061
12383506+2039384	3949279882451077888	12.448	1.127	11.958	1.528	10.082	0.769	0.026
12392838+5038459	1568524878294905088	12.429	0.944	12.069	1.323	10.382	0.667	0.013
12395834-3131208	6160731124090635520	10.996	0.907	10.778	1.202	9.169	0.655	0.065
12401578-7012252	5843372485918189440	11.237	0.928	11.449	1.150	9.816	0.568	0.300
12413756-5412247	6074478212169867904	12.095	0.930	11.723	1.276	10.169	0.713	0.244
12432213-5955445	6056631317380990208	11.638	0.853	11.403	1.188	9.818	0.683	0.300
12433114-8753309	5765813554148627328	12.111	1.060	11.680	1.367	9.932	0.729	0.116
12433200-2408376	3501624164266183552	11.788	0.916	11.489	1.197	9.924	0.647	0.076
12435927+7222303	1689741705929430016	10.893	0.655	10.822	0.961	9.571	0.527	0.024
12450496-1907283	3521841434322113152	13.005	0.757	12.745	1.038	11.371	0.541	0.055
12493821+6415038	1676938094886271104	12.593	0.852	12.329	1.179	10.866	0.612	0.017
12503487+4033500	1527854729160394496	12.219	0.753	12.034	1.102	10.540	0.574	0.010
12505600+5649548	1576792896497757440	11.591	1.008	11.321	1.347	9.607	0.694	0.008
12510042-1942157	3509552399017285632	12.886	0.986	12.494	1.302	10.882	0.712	0.046
12511944+6940558	1688859141689049984	12.833	0.530	12.782	0.853	11.703	0.540	0.011
12534156+4512260	1530523729214664192	12.449	0.841	12.108	1.219	10.528	0.600	0.021
12540492-1445540	3525348811990850560	10.511	0.819	10.315	0.991	9.042	0.500	0.041
12541483-6940177	5844853661205358208	14.510	1.280	14.547	1.099	13.131	0.558	0.284
12550382+4640597	1530993770436582784	11.835	1.012	11.545	1.241	9.960	0.680	0.014
12552381-8428164	5770402155472131712	12.190	0.827	11.937	1.158	10.450	0.635	0.102
12553388+6801121	1679621251151114624	12.950	1.077	12.810	1.296	11.143	0.671	0.020
12572833-5125217	6081346139752486784	11.920	0.999	11.556	1.346	9.806	0.637	0.198
12592188+5338040	1558199669539397376	12.896	0.749	12.679	1.081	11.257	0.563	0.013
12595962-0829171	3627268897025456000	12.678	0.847	12.394	1.039	11.177	0.583	0.040
13003028+6135085	1579614380772959104	10.527	0.500	10.288	0.997	8.984	0.564	0.010
13022750+5836042	1578633165428231552	12.662	0.919	12.484	1.244	10.747	0.716	0.009
13031323+4812574	1555059567409267328	12.895	0.938	12.497	1.321	10.857	0.691	0.012
13044809-8623048	5769157650045097984	12.962	0.767	12.668	1.143	11.160	0.590	0.101
13070832-5007271	6081477913650691456	12.880	0.772	12.663	1.043	11.357	0.552	0.185
13073032+4948349	1556370498804511360	12.574	0.872	12.335	1.101	10.891	0.605	0.009
13091593+4640598	1553980847721855616	12.217	1.037	11.946	1.275	10.327	0.701	0.009
13091772+4524279	1529793344255574016	12.248	0.950	11.820	1.303	10.126	0.691	0.012

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
13123590+7259464	1688176585486569600	12.967	0.857	12.781	1.201	11.271	0.658	0.013
13133130-6138303	5863379783621954944	11.476	1.143	11.047	1.524	9.106	0.670	0.300
13134248+3405127	1473046861950780032	13.040	0.758	12.781	1.051	11.418	0.602	0.009
13140302-0929340	3624508096342874240	12.674	0.823	12.446	1.061	11.115	0.601	0.033
13145513+3825569	1522993032339838848	12.828	0.670	12.693	1.049	11.290	0.549	0.011
13151765+5708386	1566249645139278720	12.998	0.917	12.863	1.005	11.586	0.532	0.011
13175280+3411307	1473007485690704128	13.035	0.775	12.782	1.045	11.431	0.584	0.009
13222653+7020284	1685430349037732864	12.400	1.089	12.279	1.306	10.648	0.682	0.011
13222932+3936562	1476579283573419264	12.614	0.718	12.364	1.233	10.680	0.656	0.011
13230288-1704404	360432899956748032	13.019	0.764	12.758	1.081	11.327	0.562	0.075
13231009-0531428	3635041726974665600	11.179	0.783	10.931	1.066	9.456	0.621	0.031
13231283+4320557	1549603412755666944	12.495	0.824	12.297	1.104	10.851	0.573	0.014
13240005-1748099	3604036456848334720	12.402	0.859	12.152	1.138	10.637	0.581	0.082
13241831+4610307	1551088548024093952	12.570	1.119	12.192	1.341	10.519	0.673	0.021
13242995-4551146	6087082811610225536	11.833	0.766	11.539	0.994	10.295	0.586	0.077
13244275-1607008	3604537731071348992	12.220	0.869	11.923	1.193	10.392	0.672	0.056
13253853-1412517	3608192335923918208	12.695	0.848	12.448	1.112	10.983	0.589	0.048
13282335+7427122	1712581998412032768	12.866	0.840	12.706	1.102	11.357	0.611	0.015
13294999+0115237	3711389512304903168	12.310	0.874	12.029	1.154	10.619	0.695	0.024
13303726-4125545	6160938171579414016	12.970	0.903	12.685	1.162	11.277	0.665	0.081
13351401-0110524	3638534188221336960	11.932	0.985	11.555	1.289	9.905	0.670	0.024
13360938-4408536	6111481627465700352	11.492	0.763	11.233	1.083	9.801	0.561	0.101
13373017-7717500	5789490093947866624	12.668	0.943	12.324	1.301	10.606	0.646	0.203
13373672+5902017	1662055552169232896	12.156	0.688	11.940	1.090	10.530	0.586	0.009
13375051+4742311	1552172322891498240	11.362	0.761	11.093	1.178	9.566	0.606	0.026
13394721+6824054	1672939136736222464	12.413	1.079	12.323	1.161	10.600	0.661	0.014
13401321+7237543	1687511071713939712	13.037	0.708	12.862	1.058	11.460	0.580	0.014
13404811+0717285	3724481569055443712	12.820	0.873	12.526	1.140	11.067	0.599	0.022
13425404-0717005	3620124270467822848	12.030	1.106	11.676	1.368	10.033	0.729	0.033
13433867+4844266	1558284370590734336	12.147	0.538	12.034	0.744	11.031	0.422	0.009
13434635-0806060	3618345883425109632	12.089	1.019	11.837	1.241	10.262	0.689	0.042
13443166+1523410	3742083100949072640	12.691	1.150	12.149	1.589	10.202	0.763	0.023
13443667-4143163	6112289699794699264	10.621	0.815	10.393	1.073	8.989	0.601	0.073
13452111-0730545	3619873547457548160	12.455	1.074	12.120	1.338	10.448	0.696	0.034
13454247-7355568	5791382177358811264	12.032	0.997	11.848	1.233	10.163	0.669	0.210
13455046+0513062	3714276142644562432	11.768	0.861	11.452	1.166	9.938	0.622	0.021
13455076+1426436	3741132710585731840	12.913	0.980	12.582	1.269	10.888	0.649	0.022
13460278-6854556	5850193237592455552	11.193	1.036	10.779	1.212	9.160	0.776	0.267
13461713-4155246	6112273791235652352	11.337	0.777	11.068	1.074	9.641	0.543	0.075
13465223-4334387	6108883889504179072	12.969	0.997	12.613	1.286	10.951	0.673	0.074
13481581-7052139	5840796639405915648	12.852	1.055	12.586	1.420	10.764	0.717	0.300
13510697+5853470	1659341789968532736	13.024	0.951	12.782	1.248	11.201	0.671	0.011

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
13512378+0741110	3721736844435125760	12.466	0.930	12.185	1.220	10.582	0.609	0.022
13521659-3554258	6115884072018761728	14.545	0.788	14.299	1.052	12.938	0.564	0.058
13533557+7552137	1712349073745277056	12.974	0.934	12.804	1.129	11.306	0.630	0.035
13550687+1707259	1243948839616012160	11.843	0.992	11.335	1.411	9.584	0.727	0.025
13580646+1002348	3723801761632006784	11.525	0.972	11.233	1.282	9.585	0.663	0.025
13584157-3151091	6171032134996732416	11.269	0.860	11.055	1.042	9.747	0.525	0.065
13592706+1141130	3727361838547995648	12.192	0.815	11.938	1.070	10.573	0.592	0.019
14002121+5538479	1657538212943126400	12.787	0.972	12.728	1.259	10.853	0.672	0.009
14004596+1215235	3727546045400955136	12.761	0.720	12.447	1.041	11.075	0.537	0.018
14012934+1126361	3724429582771428352	12.364	0.968	12.011	1.256	10.432	0.663	0.019
14020262-6530100	5851263646573358848	11.088	0.735	10.886	1.046	9.403	0.589	0.300
14043744+1255144	1229600350311933952	12.199	1.179	11.747	1.464	9.929	0.740	0.022
14053819+7503388	1712061237921283456	12.695	1.009	12.348	1.388	10.595	0.660	0.026
14063229+4115356	1498298211635183744	12.271	0.915	12.116	1.131	10.663	0.639	0.012
14070810+6936102	1674781746425953792	12.222	0.778	12.003	1.151	10.514	0.607	0.021
14071697+1212488	1226501033191248640	12.626	0.950	12.275	1.275	10.651	0.673	0.021
14095514-2844258	6269381255374610176	11.857	0.733	11.593	1.037	10.221	0.552	0.045
14103285-2816339	6270148611411493888	12.260	1.128	11.872	1.385	10.124	0.719	0.041
14164140+6136563	1666637942972460672	12.219	1.020	11.889	1.387	10.138	0.676	0.018
14173352-2745144	6269861295279466752	13.526	1.031	13.233	1.215	11.704	0.594	0.058
14192484-2307370	6275972209107871872	13.237	1.062	13.031	1.340	11.196	0.663	0.090
14193074+4035121	1491839749053036160	11.530	0.838	11.329	1.129	9.830	0.604	0.007
14200302+5936293	1660185630782829952	12.587	1.057	12.226	1.375	10.388	0.681	0.008
14203031-2729455	6269707565513913088	12.092	0.870	11.848	1.109	10.438	0.589	0.063
14211081-5015172	6091186773125289728	13.048	0.796	12.787	1.102	11.355	0.554	0.300
14223584+4045568	1491104691170130944	12.678	0.755	12.464	1.016	11.136	0.573	0.004
14243397+5624475	1610452860137779584	12.889	0.563	12.731	0.978	11.418	0.503	0.013
14255416+2648176	1256475262057930112	12.346	1.094	11.945	1.403	10.225	0.714	0.018
14261661+8102449	1721820606208706176	12.324	1.003	12.084	1.280	10.446	0.685	0.033
14280573-1353174	6300021547768039808	12.052	0.922	11.730	1.220	10.121	0.620	0.074
14294135+6525010	1669746193625166976	12.638	0.687	12.525	0.877	11.330	0.564	0.014
14295841+4502025	1494491496221024512	12.985	0.698	12.748	1.027	11.404	0.535	0.011
14324019+3238042	1287120579569866496	12.333	0.985	12.040	1.159	10.562	0.657	0.007
14341379-6707026	5848443708440147072	12.025	1.123	11.566	1.469	9.773	0.718	0.300
14364248-0715099	6331121238455373696	11.933	0.792	11.671	1.082	10.269	0.563	0.060
14385266+3937037	1487940434144428416	12.741	1.001	12.399	1.306	10.723	0.679	0.010
14402612+0655539	1171807334801223808	12.672	0.690	12.465	0.989	11.165	0.524	0.026
14410823+4223420	1490063071404892544	11.729	0.653	11.500	0.969	10.236	0.546	0.011
14411830+1044242	1177885611173494016	12.305	0.883	11.986	1.205	10.441	0.616	0.026
14421990+5654506	1607745454489656960	11.631	0.854	11.386	1.126	9.980	0.593	0.012
14431485-0206178	3648915222959836800	12.066	1.132	11.647	1.449	9.881	0.701	0.046
14442119+4758464	1591067649802389632	12.943	0.790	12.715	1.149	11.234	0.631	0.020

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
14443681+3939231	1487238292890443776	12.550	1.006	12.056	1.427	10.278	0.696	0.006
14444228+4247368	1490052389822427648	12.480	1.015	12.108	1.330	10.445	0.682	0.012
14453096-0214079	3648730612380753664	12.961	0.679	13.289	0.893	11.841	0.493	0.053
14455563+5838081	1616958709094540672	12.742	1.081	12.359	1.451	10.497	0.709	0.008
14460403-7303141	5796756182184708096	12.046	1.052	11.677	1.365	9.908	0.696	0.135
14473151+0306259	1157525159792413440	12.811	0.794	12.538	1.055	11.209	0.561	0.030
14504173+6652564	1669581885356163456	11.025	0.815	10.802	1.205	9.249	0.641	0.011
14512223+0339397	1157672906667474432	12.925	1.070	12.480	1.424	10.690	0.734	0.033
14520851+7234433	1698671492693440512	13.048	0.680	12.729	1.263	11.123	0.625	0.021
14535190-4724035	5905262548019849856	12.322	1.070	11.867	1.486	10.010	0.756	0.191
14550996+1452303	1185448189587672960	10.981	0.925	10.812	1.185	9.191	0.647	0.028
14561630+4534315	1586671424357440000	12.210	0.629	12.043	0.962	10.815	0.520	0.015
14561931+0829491	1161734987952738176	11.064	0.856	10.758	1.163	9.259	0.647	0.027
14572828+3910442	1296184266229998976	12.860	1.123	12.514	1.409	10.747	0.700	0.009
14572980+5047347	1593299585391391232	12.554	0.823	12.210	1.333	10.426	0.617	0.012
14584270+6055051	1619069599620600576	11.913	1.058	11.741	1.259	9.980	0.653	0.010
14584982+4500407	1586583807024523520	11.426	0.770	11.218	1.025	9.883	0.523	0.016
14590313+0544031	1159807818946952064	12.507	0.993	12.457	1.306	10.499	0.668	0.036
14591786+4755555	1587515844991289600	12.634	0.728	12.534	1.081	11.108	0.561	0.024
15002374+1131178	1180473277429900288	12.990	0.800	12.710	1.071	11.388	0.577	0.028
15010054+5654074	1612825747965425152	11.264	0.888	14.413	0.000	9.528	0.601	0.013
15010753+1708495	1187645868519130240	12.565	0.729	12.279	1.063	10.873	0.549	0.034
15012803+3616594	1294826884765960192	11.835	0.899	11.655	1.161	10.130	0.667	0.013
15015996-2613494	6225828809526332416	11.506	0.984	11.175	1.287	9.480	0.656	0.144
15021465+3507093	1291694234403435648	12.456	0.975	12.187	1.262	10.525	0.663	0.012
15023312+0549057	1159849256791308160	11.326	0.856	11.073	1.142	9.541	0.711	0.032
15023572+0940189	1167946644533913728	11.764	1.039	11.393	1.300	9.723	0.710	0.026
15023742-2442191	6227668258118329088	11.604	0.934	11.368	1.152	9.884	0.585	0.135
15025030+1345255	1181911644797448832	12.680	1.176	12.167	1.651	10.164	0.765	0.025
15025884+4539160	1586250517562417024	12.962	0.748	12.681	1.112	11.197	0.562	0.016
15031286+0602157	1159876916380773120	11.048	0.728	10.635	1.143	9.194	0.654	0.036
15040464+5927327	1614255147440846720	12.840	0.839	12.658	1.062	11.257	0.588	0.009
15043325+0441214	1156620193003216256	12.808	0.941	12.461	1.209	10.877	0.620	0.043
15050841+0701547	1160377499113263360	11.967	0.921	11.569	1.251	9.950	0.672	0.026
15060136-2508317	6227460583562691968	12.452	0.985	12.179	1.257	10.502	0.636	0.135
15060189+0444205	1156532506951177472	12.659	0.872	12.321	1.168	10.797	0.610	0.040
15065236-2547072	6226609772026895104	13.139	1.166	14.067	1.359	11.151	0.730	0.141
15071495+5704053	1612981535018964224	12.931	1.130	12.607	1.356	10.988	0.704	0.012
15085620-7020101	5799023787486633984	13.043	0.961	12.777	1.249	11.199	0.661	0.088
15092359+3623180	1292060685309150336	12.255	0.884	12.039	1.158	10.576	0.648	0.016
15094309-2025300	6255898665838008960	13.535	0.881	13.196	1.177	11.677	0.594	0.097
15095381+7303555	1697243020930244608	12.946	1.136	12.628	1.462	10.795	0.720	0.018

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
15102643+0809151	1166563287107603328	12.174	0.766	11.911	1.067	10.500	0.581	0.025
15114226+2557063	1265182569515722880	13.047	1.063	12.731	1.074	11.318	0.578	0.048
15122018-6551473	5824755211457838848	12.832	1.036	12.418	1.414	10.457	0.744	0.283
15140783+1824326	1211721397891599872	11.495	0.798	11.202	1.125	9.719	0.597	0.036
15142395+2613341	1265208133161061888	12.535	0.803	12.271	1.112	10.805	0.583	0.053
15174310-6858306	5799218602888406272	12.574	0.998	12.338	1.340	10.513	0.703	0.092
15185830+2620276	1270426797601163008	12.575	0.848	12.328	1.108	10.890	0.572	0.032
15193496+4256501	1394164216985937152	12.859	0.883	12.554	1.266	10.869	0.666	0.019
15193617+2304315	1215718152722386816	11.935	0.977	11.695	1.213	10.131	0.642	0.044
15200891-6701472	5823675417983108096	12.792	1.023	12.427	1.314	10.742	0.670	0.160
15210142+7816076	1708318332837616256	12.875	0.775	12.647	1.157	11.134	0.591	0.024
15243997-8015248	5772460033220024576	11.584	0.918	11.343	1.175	9.844	0.615	0.158
15244942+6935080	1695610791623488128	12.980	0.913	12.824	1.150	11.364	0.627	0.018
15252134+6351159	1640849688017226496	12.985	1.068	12.589	1.418	10.796	0.674	0.014
15255933+5026270	1594780288252588032	12.254	1.036	11.855	1.372	10.148	0.689	0.017
15264322-7017087	5796025453632860544	12.840	1.048	12.523	1.297	10.850	0.653	0.087
15272716+2937502	1273518040182639872	12.571	0.875	12.278	1.149	10.712	0.622	0.023
15282654+6737516	1645668263365914368	12.557	0.877	12.396	1.103	10.990	0.602	0.023
15304031+2345045	1220893455176256512	11.899	0.903	11.609	1.183	10.067	0.610	0.046
15312758+2528504	1222449092327405056	12.127	0.887	11.895	1.118	10.326	0.609	0.042
15330912+8158562	1721465807550041856	12.515	0.905	12.282	1.184	10.658	0.634	0.044
15345353+5610250	1601294344891081472	11.717	0.460	11.818	0.718	10.769	0.510	0.009
15351593+0251226	4427077397649058944	12.449	0.904	12.144	1.208	10.570	0.647	0.043
15352535+2843009	1272505179518285696	12.455	1.163	11.974	1.523	10.126	0.730	0.022
15371627+3318345	1370624708124173312	11.868	0.974	11.568	1.214	9.999	0.646	0.030
15381851+4804330	1401181854246440704	12.973	0.877	12.599	1.314	10.944	0.710	0.013
15391788+5403318	1597864040410848896	12.587	0.849	12.363	1.116	10.870	0.583	0.014
15392367+4037228	1389938076542244992	10.592	0.770	10.351	1.098	8.936	0.549	0.025
15392783+5557319	1601593274615155712	12.710	0.870	12.530	1.310	10.693	0.680	0.013
15393011+7252178	1696583898069432704	12.828	0.809	12.673	1.159	11.151	0.616	0.029
15394006+4426174	1397344691808122624	12.395	0.963	12.086	1.189	10.541	0.656	0.015
15414028+8245352	1723003508921638656	12.954	0.832	12.745	1.044	11.296	0.581	0.065
15420239+0515389	4427879525740941056	12.501	0.785	12.248	1.061	10.836	0.554	0.043
15431257+6424109	1641066429247008128	12.522	0.577	12.342	1.058	10.929	0.535	0.018
15433525+3739578	1376344024013884800	12.050	0.937	11.753	1.215	10.198	0.626	0.010
15441676+0459116	4429308311037974272	12.232	1.015	11.862	1.327	10.148	0.675	0.049
15452566-4444040	5988917073480792704	11.866	0.925	11.528	1.266	9.888	0.635	0.259
15460715+0559221	4429522058673688192	12.659	0.764	12.396	1.076	10.987	0.579	0.054
15470901+0505149	4426320800506688384	12.926	0.877	12.738	1.213	11.133	0.643	0.053
15471083-4404210	5989331898604674176	11.761	0.938	11.526	1.232	9.999	0.661	0.237
15475041+6321134	1640197196585984896	11.888	1.032	11.492	1.394	9.788	0.741	0.018
15482592-3959257	6008057268799998848	13.564	1.111	13.221	1.456	11.348	0.561	0.300

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
15482651+1917200	1203885900077833984	12.669	1.003	12.349	1.283	10.699	0.661	0.035
15484895+0949113	4455582481414836096	12.720	0.920	12.411	1.218	10.861	0.646	0.040
15494232+5707537	1598759730070071808	12.623	0.961	12.318	1.248	10.716	0.638	0.009
15495840-4306370	5989480401391030528	12.074	1.010	11.633	1.272	10.053	0.686	0.286
15501637+3536243	1372799645203241856	11.273	0.737	11.058	0.982	9.782	0.531	0.019
15511496+0734493	4430292717546018304	12.770	0.759	12.485	1.060	11.088	0.551	0.035
15512062+0140120	4423150667969419264	12.228	0.865	12.014	1.226	10.292	0.629	0.121
15514567-3935382	6008406329380234368	12.956	1.101	12.567	1.417	10.776	0.579	0.300
15521212-3934227	6008407257093139456	13.630	0.866	13.370	1.136	11.923	0.508	0.300
15525776+0136148	4411131043072307456	12.979	0.905	12.641	1.261	10.949	0.640	0.091
15533843+0145539	4411228560308157184	11.257	0.971	10.905	1.313	9.281	0.690	0.085
15541062-3255166	6015313976817734784	13.774	1.051	13.444	1.353	11.664	0.688	0.182
15542259-3341566	6012240773099364992	11.390	0.975	11.085	1.236	9.510	0.572	0.246
15542887-3332103	6012255341628535680	12.715	0.968	12.371	1.328	10.621	0.667	0.213
15545039-4652323	5987712279288235648	11.052	0.888	10.825	1.125	9.383	0.583	0.300
15555135+1256054	1191328721374511744	12.526	0.915	12.216	1.224	10.635	0.637	0.044
15563950+0754021	4454167994065860352	12.485	0.982	12.125	1.273	10.510	0.643	0.037
15570603+0757417	4454127621373692032	12.876	1.186	12.438	1.534	10.524	0.688	0.037
15583081+1505320	1192938543835309952	12.721	0.961	12.394	1.246	10.811	0.647	0.033
15583757-3734113	6010214613689309056	10.769	0.647	10.545	1.000	9.245	0.454	0.300
15584850-3603371	6010918747795620480	12.965	1.080	12.816	1.343	10.925	0.648	0.300
15591458+0507554	4425763554271082112	11.811	1.054	11.467	1.325	9.777	0.714	0.047
15592133-3416261	6011940778224281856	12.521	0.848	12.275	1.085	10.860	0.466	0.265
15592229-3853560	5997979351379581312	12.920	1.092	12.556	1.370	10.812	0.637	0.300
15592785+0314441	4424940775976241664	12.436	0.748	12.144	1.113	10.692	0.558	0.161
15593606-3220592	6036353337976099840	12.421	1.010	12.039	1.320	10.356	0.692	0.265
15593767+1613419	1199172465527378176	12.728	0.871	12.432	1.141	10.965	0.625	0.030
15595245-3207381	6036461468074424448	14.060	1.090	14.226	1.102	12.779	0.501	0.189
16001273+2435560	1219123340233877376	12.372	0.978	12.125	1.172	10.570	0.588	0.058
16004212+1105313	4457460855293872128	11.149	0.848	10.917	1.139	9.433	0.636	0.046
16005880-3307564	6036077979033846528	13.466	0.870	13.174	1.166	11.699	0.447	0.285
16020475+0622249	4450709720758088192	10.952	0.890	10.700	1.117	9.341	0.622	0.043
16025295+3733291	1379240098985809408	12.341	0.938	12.046	1.181	10.528	0.637	0.015
16025382-8226516	5768895377865607808	12.353	0.929	12.051	1.216	10.446	0.619	0.105
16025490+0102272	4411633352385123840	12.258	1.115	11.931	1.390	10.110	0.693	0.090
16030891+1940229	1203268485640442880	12.832	0.776	12.547	1.098	11.106	0.592	0.037
16032024+1641034	1199294713178394496	12.503	0.936	12.192	1.275	10.499	0.641	0.030
16033629+3116414	1322162667977621632	12.726	0.855	12.525	1.054	11.183	0.553	0.025
16034976+0832565	4451626679096707456	12.283	0.888	11.994	1.166	10.465	0.596	0.049
16040396+1841499	1200065646925933056	12.510	0.889	12.160	1.227	10.617	0.662	0.046
16040780+4241470	1383653195061929728	12.693	0.623	12.380	1.018	11.048	0.535	0.011
16042932-2253301	6242404084762732800	12.670	0.945	12.375	1.203	10.819	0.596	0.149

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
16045324-2005064	6244194055324808576	11.956	0.840	11.674	1.142	10.180	0.564	0.254
16051879+1359570	1191908675099304704	12.238	0.693	12.170	0.946	10.789	0.510	0.044
16052710+0024235	4409850528641208192	11.798	1.173	11.284	1.606	9.270	0.693	0.269
16052946-2543348	6043663818991262208	12.034	1.572	11.588	1.491	9.719	0.737	0.130
16053749+1843052	1200145322861774080	12.453	1.023	12.085	1.338	10.351	0.697	0.037
16055339+1944171	1203234576873824384	11.835	1.070	11.538	1.429	9.648	0.721	0.044
16060454-3508190	6034898993336955008	13.528	1.064	13.227	1.291	11.557	0.648	0.300
16061119-3620355	5998751552140270976	13.453	1.237	13.080	1.521	11.170	0.701	0.300
16061643-3237103	6036155219728437760	12.231	0.792	12.043	1.073	10.624	0.461	0.249
16064542-3216179	6036585644175848576	13.858	0.772	13.637	1.055	12.278	0.454	0.207
16065604-3707315	5998563982328033920	11.667	0.695	11.469	0.956	10.313	0.452	0.300
16073239-2250378	6242439784523836416	11.662	0.667	11.442	0.928	10.258	0.431	0.175
16073532-3208471	6036547126907295616	14.150	-0.160	14.099	1.237	12.582	0.668	0.155
16074138-3314575	6035358520474835456	11.031	0.684	10.871	0.949	9.627	0.502	0.200
16074907+1420135	4458558752013944960	12.387	1.084	11.967	1.374	10.200	0.748	0.033
16080889-2943209	6041589418507890688	13.093	0.925	12.950	1.084	11.617	0.522	0.198
16081391-2017182	6244117639267067008	12.786	0.826	12.499	1.118	11.018	0.472	0.271
16083267-3438595	6034940156304474112	14.602	0.873	14.459	1.130	12.986	0.554	0.300
16084292-2820180	6041824610913270656	12.224	0.696	11.978	0.976	10.664	0.476	0.198
16091164+3008425	1318809707269021184	11.607	1.077	11.288	1.310	9.639	0.716	0.028
16101125-3446225	6034969392126840320	13.360	0.980	13.016	1.300	11.328	0.625	0.300
16102112+0023264	4408313235288945024	12.498	0.833	12.211	1.152	10.678	0.595	0.114
16102340+3952510	1379957603338177280	12.774	0.932	12.337	1.508	10.495	0.732	0.009
16102544+1810108	1199821898940802944	11.897	0.922	11.603	1.210	10.032	0.650	0.045
16103301+0031597	4408318943304571776	12.197	0.782	11.938	1.079	10.521	0.546	0.128
16103970-2443561	6049772323329029632	13.386	1.067	13.066	1.314	11.330	0.662	0.152
16105877-2811435	6041842237458491520	13.986	1.077	13.635	1.264	11.967	0.633	0.225
16111495-3204491	6035900167382119808	10.844	0.908	10.579	1.169	9.053	0.533	0.206
16113577-1909453	6245765566678852608	11.839	0.898	11.525	1.236	9.919	0.594	0.300
16114668-2427053	6049806927886876928	14.594	0.790	14.359	1.059	12.927	0.479	0.225
16121101-2818128	6042164669240420864	10.301	0.719	10.177	0.803	9.162	0.508	0.241
16123013+4456046	1385790890480677376	12.688	0.776	12.432	1.040	11.067	0.580	0.009
16132830-2013405	6245397122905040000	12.458	0.871	12.269	1.083	10.839	0.429	0.300
16134375-2517381	6049518065566679040	11.082	0.807	10.787	1.161	9.299	0.528	0.300
16135700-2757099	6042198238705334144	12.687	0.906	12.451	1.071	11.028	0.484	0.293
16141120-2033379	6244625270041451648	13.297	0.703	13.162	0.962	11.875	0.432	0.247
16150157-2339354	6050327233103808768	12.306	0.955	11.980	1.275	10.277	0.669	0.197
16150863-0734143	4348947961102169344	12.845	0.964	12.511	1.287	10.815	0.669	0.199
16154084+3326445	1322837974275568384	12.840	0.759	12.586	1.005	11.263	0.525	0.020
16154634-1423377	4329332948541070976	11.815	0.782	11.517	1.101	10.098	0.583	0.298
16154808-2355376	6050304972294952064	11.163	0.764	10.932	1.061	9.540	0.470	0.210
16154986-0751166	4345832009572003840	12.937	1.105	12.525	1.454	10.644	0.741	0.193

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
16163380+4615010	1386708295494907904	12.715	0.890	12.478	1.102	11.028	0.590	0.009
16163935-3233268	6035641953958688896	12.869	1.023	12.449	1.424	10.579	0.686	0.299
16164213-3256588	6035579999042793856	12.163	0.840	11.882	1.148	10.351	0.518	0.272
16165205-2154235	6242759089572065920	12.984	1.082	12.609	1.493	10.594	0.739	0.206
16171415+1832404	1200608324633174784	10.657	0.786	10.322	1.176	8.790	0.644	0.042
16173056-1932253	6245550268557026432	11.231	0.864	10.960	1.204	9.371	0.612	0.300
16173244+0248331	4436119304542479616	12.849	0.917	12.577	1.173	11.024	0.573	0.060
16173704+3125396	1319323522796448512	12.669	0.885	12.403	1.159	10.899	0.605	0.023
16175168-3344503	6023449568284510592	11.723	0.739	11.475	1.020	10.153	0.463	0.300
16175506-2501165	6048881207813795456	13.183	1.078	12.798	1.453	10.848	0.617	0.300
16180650-1903385	6245955610391354880	11.739	0.841	11.410	1.227	9.734	0.621	0.300
16194310-0224311	4358730552275110272	12.296	0.776	11.987	1.155	10.477	0.613	0.143
16195744+3711488	1330482668168550016	12.820	0.971	12.521	1.255	10.928	0.689	0.014
16201273+8036085	1710329438388205824	12.581	0.589	12.390	1.054	11.017	0.556	0.048
16201770+4208508	1382053238141320192	12.795	1.044	12.421	1.328	10.772	0.665	0.012
16202566+0328284	4436260965440303232	11.699	1.070	11.330	1.356	9.651	0.699	0.051
16203416+3132541	1319232263331506304	11.816	1.100	11.409	1.429	9.624	0.724	0.021
16203444-2056578	6244454330343783936	11.592	0.966	11.328	1.224	9.745	0.596	0.300
16204714-2606162	6048548399391137152	14.674	1.051	14.225	1.426	12.360	0.571	0.300
16204887+7014507	1652927273492300160	12.634	0.915	12.365	1.188	10.835	0.651	0.029
16211341+3512582	1329412882010974976	12.107	0.993	11.781	1.235	10.186	0.630	0.015
16213044-7002350	5807311386428745984	12.571	0.696	12.321	1.003	10.896	0.656	0.093
16213929-7135317	5806920991081963136	13.050	0.860	12.635	1.278	10.993	0.667	0.060
16220240+0700378	4439734017734002944	13.029	0.766	12.718	1.100	11.246	0.572	0.052
16221768+1134274	4459979806371200512	12.242	0.843	11.937	1.179	10.376	0.583	0.064
16224822+5100127	1423692705557972992	11.917	0.915	11.501	1.405	9.772	0.711	0.018
16225698-3234118	6025040458531718016	12.052	0.961	12.272	1.209	10.234	0.620	0.300
16231806-3110431	6037281562002354048	14.362	1.027	14.293	1.300	12.637	0.661	0.242
16232673+0535156	4437155113207686400	12.770	0.865	14.573	0.000	10.904	0.588	0.059
16234350+2958278	1318193396641660544	13.560	0.908	13.290	1.292	11.618	0.712	0.024
16241901+0630059	4439457593640443392	12.459	1.110	12.036	1.425	10.217	0.669	0.062
16243746+8055162	1710372289277885440	12.867	0.776	12.694	1.144	11.207	0.600	0.036
16244834+1804359	4467003074331962880	12.463	0.916	12.200	1.251	10.567	0.671	0.038
16251518+0520267	4437084641390808960	12.680	1.121	12.297	1.400	10.529	0.707	0.054
16253573-0834395	4350830702966299648	13.041	0.972	12.668	1.325	10.902	0.686	0.223
16254695-3354120	6023951392267153408	12.516	0.886	12.186	1.254	10.513	0.516	0.300
16254871-1359117	4328986293140183680	12.525	1.176	11.977	1.614	9.857	0.750	0.300
16260791-2025280	6052684487252718080	14.478	1.183	13.965	1.548	11.933	0.682	0.300
16260857+3126550	1324425389891741696	12.718	1.189	12.360	1.582	10.287	0.752	0.018
16263668-0628581	4352076965036319872	11.911	1.004	11.544	1.351	9.753	0.703	0.300
16270418+0322290	4433540296934619520	12.197	0.978	11.866	1.263	10.248	0.686	0.056
16272230+3655279	1331122622592397568	10.997	0.982	10.715	1.216	9.148	0.660	0.011

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
16272250-0848362	4350762533245253632	12.773	1.170	12.330	1.499	10.352	0.723	0.210
16272730-1210551	4331507503365927680	12.577	0.971	12.263	1.369	10.470	0.730	0.272
16272732+1123305	4459078580497051136	12.340	0.826	12.054	1.105	10.596	0.546	0.060
16274702-3314031	6024841279438699008	12.806	1.436	12.262	1.710	10.110	0.761	0.300
16283300+1722329	4467079971426476160	11.786	0.992	11.415	1.326	9.731	0.676	0.044
16290198+1430507	4463821083383973760	12.688	0.927	12.345	1.269	10.727	0.651	0.036
16293666+0213503	4432101100636150400	12.699	1.019	12.406	1.290	10.758	0.660	0.055
16300807+3459161	1326275047622823552	11.183	0.836	14.638	0.000	9.571	0.537	0.018
16302614-3342496	6024015541893607808	12.690	0.775	12.407	1.103	10.993	0.450	0.300
16303876+1329513	4460685211799513600	12.960	0.885	12.671	1.177	11.126	0.610	0.044
16305318+4405187	1405543067118031488	12.484	1.074	12.171	1.273	10.596	0.679	0.006
16312561+1408014	4460744722866525824	12.013	0.872	11.773	1.257	9.968	0.639	0.043
16320549+0401083	4433503532014896512	12.780	0.589	12.500	0.942	11.250	0.489	0.056
16322157+1615449	4465786018039320320	12.161	0.928	11.827	1.235	10.224	0.626	0.054
16323169+1555079	4465571613272013440	12.608	0.681	12.310	1.047	10.932	0.539	0.052
16325211-8327479	5768596864756350976	12.511	0.937	12.149	1.281	10.433	0.733	0.086
16325439-7525259	5781162663455262080	12.055	1.031	11.753	1.291	10.060	0.669	0.065
16333188+5906052	1623752935039977088	12.821	0.636	12.618	0.977	11.274	0.485	0.013
16341169+4636439	1407185565691196672	11.977	1.143	11.670	1.328	9.858	0.723	0.017
16342046+1157567	4459450868260931456	12.584	0.701	12.322	1.015	10.993	0.546	0.055
16343097+0620345	4438931438666007296	12.930	0.956	12.619	1.228	11.025	0.653	0.068
16344239+2231419	1298095453661818880	12.412	1.116	12.112	1.334	10.373	0.685	0.041
16350481+1137192	4459250349123575808	11.668	1.132	11.229	1.448	9.467	0.745	0.058
16352407-3359508	6024133674994546944	13.522	0.857	13.244	1.113	11.781	0.526	0.300
16353942+1442022	4462370655749089792	12.614	0.915	12.260	1.243	10.695	0.648	0.048
16354720+1246210	4459657718184334720	12.868	0.912	12.486	1.266	10.883	0.634	0.040
16360774+5058387	1411871031413851648	12.469	0.729	12.350	0.944	11.134	0.537	0.020
16373418+3852001	1331616986212008192	12.594	0.751	12.378	1.018	11.010	0.540	0.008
16374852+0734375	4439132546216071296	11.648	0.499	11.992	0.784	10.950	0.327	0.093
16382363-6644037	5815570715927353216	12.687	0.903	12.533	1.213	10.960	0.647	0.071
16383378+0540276	4435778760872577024	12.722	1.039	12.401	1.363	10.603	0.673	0.055
16384693+1812116	4562485587504234880	12.478	0.750	12.111	1.179	10.590	0.607	0.071
16385168+1723396	4466157103214240256	12.327	0.818	12.054	1.116	10.594	0.590	0.057
16385848+3000087	1311872265637358336	12.477	1.047	12.217	1.301	10.478	0.657	0.027
16391895+0338467	4434135338883534336	11.250	0.760	10.995	1.028	9.716	0.584	0.060
16393846+0740507	4445130901837683584	12.948	1.002	12.499	1.323	10.914	0.697	0.099
16394169+4228154	1356989076015732864	12.464	0.943	12.089	1.249	10.500	0.670	0.009
16394396+4249163	1357571404861995136	12.462	1.065	12.057	1.343	10.328	0.688	0.012
16402468+1550407	4462850115836027648	11.984	0.826	11.695	1.155	10.163	0.623	0.054
16413086+2631045	1301433231662419840	13.046	0.868	12.765	1.154	11.238	0.589	0.053
16414836+1216122	4460825777486994048	11.564	0.790	11.295	1.110	9.803	0.594	0.037
16420651+2604225	1301214463209079040	12.636	1.116	12.415	1.414	10.498	0.720	0.045

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
16421928+2344032	1299750291677336960	12.739	1.026	12.444	1.261	10.854	0.641	0.040
16423938-8306366	5768700008393198464	12.217	0.846	11.851	1.229	10.251	0.642	0.124
16430853+0426005	4434657430811775232	12.985	1.025	12.627	1.368	10.870	0.716	0.067
16432853+1024103	4446900634521443584	12.724	0.935	12.392	1.227	10.826	0.680	0.043
16435657+3232386	1314234398867571072	12.653	0.890	12.354	1.178	10.805	0.621	0.026
16440315+1154212	4448745095340450944	12.059	0.890	11.795	1.152	10.336	0.600	0.049
16443996-7951474	5775442729091999616	12.470	1.013	12.138	1.296	10.459	0.645	0.123
16461012+3554551	1327313154102801664	12.224	0.806	11.924	1.075	10.514	0.583	0.019
16462075+1719330	4559215674287937536	12.619	0.904	12.369	1.186	10.818	0.599	0.077
16462090+0333477	4433981853933019264	12.092	0.893	11.753	1.222	10.163	0.623	0.071
16464088+0311203	4385915672332609280	12.764	1.151	12.381	1.403	10.554	0.638	0.071
16471020+5015587	1412373954904373760	12.044	0.815	11.801	1.069	10.396	0.575	0.016
16472419+1507161	4461858837385161088	12.150	0.735	11.931	0.991	10.687	0.518	0.062
16472795+2336019	1299862235704972928	12.497	0.872	12.280	1.133	10.822	0.633	0.048
16474061+1340279	4461395668115705344	12.476	0.997	12.137	1.290	10.488	0.653	0.057
16482585+4245290	1356678949313407360	10.827	0.735	10.543	1.157	9.042	0.610	0.015
16483067+5232124	1413923647824211456	12.955	0.952	12.705	1.160	11.191	0.626	0.037
16485963+2050021	4564767112786411648	12.375	0.914	12.174	1.182	10.558	0.615	0.048
16491646+1922215	4562883030895304960	12.715	0.639	12.444	0.979	11.104	0.517	0.067
16492419+1810509	4559694756410004480	12.656	0.893	16.473	0.000	10.708	0.608	0.080
16501693+3227048	1314079917484186880	12.849	0.950	12.551	1.232	10.972	0.649	0.032
16501966+2135346	4565674033785572096	12.256	0.910	11.953	1.178	10.420	0.615	0.043
16505552+5951110	1438058374730240256	11.854	0.996	11.534	1.296	9.896	0.646	0.040
16510088+3648458	1351373148578890624	12.509	0.651	12.459	0.831	11.302	0.546	0.015
16511460+5352298	1426065314211359488	12.916	0.773	12.636	1.100	11.223	0.627	0.031
16514772+3844288	1352397519754683136	12.117	0.808	11.841	1.077	10.431	0.587	0.013
16523005+0311543	4386055756985792640	12.001	1.076	11.625	1.357	9.866	0.669	0.075
16534583+2531166	1306113268546500352	12.477	1.110	11.722	1.551	9.814	0.729	0.049
16534773+3049290	1312862856894855040	13.040	0.823	12.793	1.079	11.384	0.569	0.029
16545744+2603567	1306294683667797248	11.368	0.847	11.170	1.135	9.688	0.572	0.046
16553977-8810318	5765193738828393600	12.870	0.818	12.573	1.171	11.073	0.605	0.098
16563138+3921373	1352143528272068864	12.901	0.724	12.654	0.996	11.338	0.542	0.015
16563406+1516544	4545782356611145728	11.376	1.125	10.961	1.424	9.149	0.736	0.081
16574714+4326284	1358072923898101120	11.721	0.994	13.532	0.000	9.724	0.691	0.015
16581141+4516190	1359217446784103296	13.016	0.776	12.648	1.268	11.086	0.658	0.013
16583722+0153432	4384878175734959744	12.064	0.737	11.766	1.089	10.301	0.561	0.090
16590140+2521558	4572761867992849920	12.408	0.822	12.038	1.106	10.590	0.581	0.037
16591231-5353249	5935760874615991808	11.124	0.970	14.250	0.000	9.293	0.524	0.252
17001311-7651059	5777695868934489600	12.286	0.186	12.004	0.661	10.855	0.514	0.073
17024781+2559130	4573174150493770368	12.797	1.000	12.548	1.250	10.946	0.642	0.032
17034238+4012376	1353472361090529536	12.994	0.797	12.693	1.254	11.029	0.630	0.028
17034776+2709455	4573403428730280064	12.770	0.766	12.528	1.059	11.119	0.566	0.062

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
17035954+4513186	1358789148349761152	12.805	0.593	12.577	1.006	11.236	0.503	0.024
17041564+1932115	4560834812533156480	13.040	0.988	12.689	1.296	11.015	0.662	0.072
17041979+6325224	1631229304871201024	12.666	1.074	12.392	1.226	10.815	0.657	0.021
17042385+6726017	1636646151984790784	12.675	1.066	12.271	1.513	10.422	0.724	0.032
17045983+1948039	4561595434057474304	11.961	1.120	11.579	1.390	9.813	0.709	0.061
17054252-6742414	5814397399577566848	12.423	0.974	12.169	1.261	10.505	0.705	0.059
17060632+6430248	1632107986461148928	12.675	0.639	12.551	1.002	11.222	0.542	0.021
17095788+4825288	1414140487836898048	13.049	0.969	12.701	1.290	11.058	0.665	0.011
17104782+4615401	1364943737701366144	11.833	0.868	11.530	1.125	9.987	0.631	0.031
17115737+4056337	1341931337289579648	12.449	0.879	12.223	1.129	10.701	0.576	0.028
17125716-2214215	4115322081195173248	13.287	1.093	12.865	1.479	10.966	0.630	0.300
17130596-3442468	5978819326162668288	12.308	1.016	11.901	1.409	10.119	0.521	0.300
17130931+4245360	1354380420256070272	13.007	0.821	12.666	1.137	11.198	0.590	0.016
17133146+5029289	1414644171538142464	12.952	0.779	12.612	1.124	11.176	0.598	0.018
17134640-2252270	4114531910303984896	11.467	1.015	11.152	1.279	9.569	0.594	0.300
17134904+4643336	1364979746707350016	12.998	0.883	12.709	1.147	11.192	0.575	0.036
17151412-2251434	4114489441664092160	11.068	1.020	10.739	1.331	9.054	0.553	0.300
17154790-5232570	5925618184739644160	12.707	1.052	12.301	1.436	10.446	0.745	0.236
17160251-2205199	4114972844488807680	11.804	0.980	11.488	1.294	9.835	0.681	0.300
17162512+4249078	1360187452261689472	11.890	0.612	11.694	0.971	10.415	0.527	0.015
17163270+4302287	1360381309905667840	10.753	0.740	10.554	1.052	9.212	0.559	0.020
17163966-8711235	5765345368353739392	12.179	0.760	11.917	1.097	10.466	0.551	0.129
17174451+3653087	1339989290517076096	13.048	0.676	12.842	0.998	11.503	0.526	0.033
17185527+3839047	1340720740627444096	12.884	0.971	12.645	1.282	10.915	0.617	0.046
17192865-6853306	5811209090730279680	11.646	0.836	11.441	1.092	10.042	0.582	0.078
17194406+4515228	1361644549983238272	12.911	0.790	12.633	1.132	11.144	0.594	0.027
17212704+5033288	1414790574087583360	12.628	0.965	12.215	1.326	10.527	0.657	0.027
17215395-6411338	5814091284361742976	12.867	0.875	12.615	1.156	11.124	0.610	0.066
17215498+1423078	4543224965582361984	12.747	0.959	12.384	1.287	10.741	0.639	0.120
17224220+0353126	4389167576754184192	12.925	0.922	12.587	1.233	10.953	0.641	0.086
17234737-5834124	5916061474500671232	11.608	0.976	11.240	1.299	9.566	0.631	0.091
17240759+3635398	1337102866336482688	12.958	0.799	12.677	1.110	11.212	0.566	0.044
17251201-7832462	5776783519098670464	12.870	1.384	12.257	1.821	10.098	0.790	0.250
17252775+5318307	1416272239020984576	12.727	0.561	12.481	1.056	11.056	0.539	0.028
17254679-8513010	5767118193414597632	12.928	0.781	12.633	1.110	11.143	0.622	0.102
17255611+1556131	4543997853536251264	12.811	0.817	12.523	1.098	11.052	0.620	0.076
17265179+3527349	1335862475484040064	12.135	0.887	11.821	1.197	10.271	0.635	0.029
17272663+3847099	1343578233909298816	10.174	0.535	10.402	0.762	8.982	0.526	0.036
17283154-6945443	5810934625139045248	10.403	0.746	10.249	0.938	9.239	0.521	0.066
17285162-6941036	5810941016050593536	11.634	0.899	11.336	1.194	9.788	0.628	0.068
17285482-5720440	5919234390177666304	11.222	0.765	11.048	0.961	9.888	0.535	0.080
17291858+7510248	1655949551783195520	12.654	1.122	12.441	1.374	10.742	0.694	0.029

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
17292254+0305472	4388901086920961024	12.049	0.970	11.630	1.348	9.903	0.660	0.136
17293008+5534560	1421238419509501568	12.676	1.042	12.482	1.067	11.098	0.631	0.036
17303697+0421414	4389421362079616512	12.773	1.205	12.393	1.498	10.510	0.764	0.151
17314553+2843156	4598739479466205568	12.193	0.747	11.974	1.040	10.622	0.566	0.044
17315874-5342306	5921618165752908928	11.806	0.933	11.496	1.266	9.862	0.636	0.165
17330791+2548590	4594030404311114240	12.447	0.985	12.139	1.321	10.426	0.658	0.062
17331311+1713463	4550007577936164864	12.891	0.888	12.470	1.271	10.860	0.635	0.044
17331323+3152308	4601590066440260096	12.691	1.019	12.383	1.288	10.750	0.711	0.043
17332654+2633432	4594840366419966208	12.379	0.694	12.172	1.015	10.812	0.543	0.054
17333170+5456025	1420926742322768640	12.238	1.101	11.863	1.307	10.296	0.685	0.048
17333194-5022586	5946394938738915584	12.735	0.932	12.399	1.272	10.746	0.608	0.175
17334423+1911331	4553866722012938496	12.349	0.739	12.076	1.060	10.713	0.541	0.064
17334679-6744028	5813027335062608384	12.762	1.061	12.379	1.339	10.617	0.725	0.067
17335350+1815568	4550692088345948672	12.789	0.774	12.478	1.136	11.003	0.634	0.049
17335522+1719221	4550032381370693376	12.102	0.991	11.654	1.414	9.851	0.709	0.046
17355093+1411487	4542596697766095232	12.615	0.788	12.418	1.069	10.989	0.570	0.080
17370392-7408233	5803200381170398336	12.929	0.928	12.544	1.141	11.203	0.587	0.066
17371472+1603347	4549079418323779712	11.526	0.656	11.352	0.904	10.175	0.586	0.065
17373165+0109351	4375387436181302912	11.849	1.041	11.435	1.426	9.595	0.712	0.222
17374593-4903259	5946896105559051392	13.026	0.937	12.787	1.178	11.339	0.664	0.168
17381613+1806130	4550553412442483456	12.617	0.994	12.287	1.295	10.666	0.702	0.052
17382795+8319481	1711261033974731648	12.111	0.617	11.837	1.077	10.425	0.546	0.079
17390078-7342041	5803233817494625536	12.870	1.330	13.442	0.929	11.486	0.534	0.052
17390590+1504553	4548685209048009600	11.551	1.037	11.224	1.303	9.580	0.691	0.058
17393096-5334586	5921761544627396352	12.555	0.965	12.295	1.282	10.621	0.677	0.173
17412217-6605479	5812858972344007680	11.582	1.056	11.262	1.331	9.591	0.698	0.058
17412978+2128403	4556052314917665920	12.303	0.864	12.127	1.118	10.721	0.603	0.086
17415044+2448137	4581633552441283328	12.952	0.845	12.689	1.144	11.198	0.620	0.057
17421570-5343061	5921703652781168768	11.398	1.010	11.034	1.355	9.282	0.705	0.163
17422649+3217551	4601113221991774976	12.968	1.058	12.674	1.281	11.009	0.652	0.042
17425789+0417381	4473307880166709248	12.740	0.876	12.414	1.241	10.799	0.653	0.215
17431049+5633516	1421354113045323904	13.010	1.109	12.603	1.547	10.666	0.740	0.034
17435113-5359333	5921684136450078592	12.023	0.835	11.732	1.172	10.184	0.584	0.125
17442011+0827068	4488216467565808512	13.042	0.797	12.793	1.083	11.375	0.484	0.132
17442313+1055585	4489909058337283584	12.273	0.891	11.976	1.220	10.389	0.636	0.115
17451045+1600587	4501194587422903936	12.978	0.944	12.692	1.214	11.114	0.620	0.100
17452465+0613284	4474168965270090368	12.698	1.089	12.275	1.431	10.434	0.704	0.165
17452911+0549214	4474076782390335616	11.607	0.816	11.291	1.181	9.725	0.603	0.199
17460256+1657355	4549397894441550848	12.797	0.818	12.594	1.092	11.178	0.614	0.067
17465957+1519406	4501077351995658496	12.123	0.884	11.834	1.195	10.272	0.602	0.079
17470290-5058143	5945699978662588416	12.344	0.865	12.128	1.141	10.587	0.614	0.154
17471725-6723320	5812356121877182080	12.206	1.054	11.846	1.339	10.164	0.729	0.062

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
17471835-0035363	4371256532336413056	10.968	0.911	10.717	1.173	9.264	0.562	0.300
17472373+5750230	1422587593292960640	12.299	1.018	12.693	1.304	11.024	0.701	0.031
17473698+5229473	1368840406910596992	12.405	0.773	12.208	1.066	10.802	0.584	0.030
17485598-7415094	5803007691756413056	11.901	0.964	11.560	1.282	9.931	0.659	0.060
17493006+1616540	4501261550253801344	12.936	0.888	12.596	1.221	11.020	0.639	0.088
17493192-5314272	5921036111776622592	13.039	0.742	12.721	1.084	11.261	0.531	0.128
17505960+1845110	4551354475384137600	12.929	0.828	12.647	1.150	11.164	0.620	0.072
17512033+4313226	1346347658884884608	10.767	0.907	10.457	1.216	8.879	0.618	0.029
17513368+0735474	4475867611955393280	12.875	0.818	12.713	1.107	11.290	0.629	0.144
17514375-8447409	5767473713627782016	11.590	0.934	11.204	1.316	9.517	0.678	0.114
17515635+0549550	4473933497983061632	12.551	0.919	12.255	1.226	10.525	0.619	0.194
17530760+0355502	4472708298435677312	12.434	0.728	12.152	1.044	10.925	0.565	0.203
17531820-5828173	5918003040226875648	12.722	0.909	12.415	1.223	10.796	0.649	0.085
17553087+1344549	4499700449901916672	12.567	0.915	12.228	1.270	10.575	0.660	0.090
17563856-6259025	5911002106095737472	12.248	1.037	11.866	1.304	10.249	0.694	0.073
17570985+6104567	1435424254107968896	12.557	0.925	12.340	1.139	10.893	0.650	0.024
17580876-5017025	5947067839841987840	12.773	1.049	12.484	1.313	10.768	0.706	0.129
17582442-5200036	5945364387093681024	11.499	1.090	11.082	1.437	9.242	0.736	0.142
17583367+0851134	4476514330950969216	12.660	0.917	12.306	1.275	10.605	0.623	0.140
17590214+0226114	4468887736043966848	12.605	0.994	12.135	1.357	10.330	0.685	0.211
17593067+0547081	4474462912835838336	11.394	0.878	11.164	1.158	9.534	0.606	0.169
17595240+0845349	4476464986070993664	12.467	1.127	12.048	1.474	10.174	0.710	0.169
17595579+0402394	4469713473577956352	11.628	0.987	11.271	1.325	9.555	0.663	0.161
18004880+4241389	2113828593508701696	12.572	0.426	14.086	1.182	11.235	0.555	0.024
18012521+1607266	4501806912321934592	12.339	0.891	12.086	1.143	10.655	0.589	0.087
18013011-6117020	6635006422507626880	12.643	0.905	12.421	1.236	10.750	0.663	0.087
18015056-5628090	6651913342230612608	13.030	0.886	12.783	1.129	11.325	0.591	0.105
18025682-7550189	6414540257944747008	11.744	0.819	11.510	1.149	9.829	0.698	0.150
18033495+4211510	2113756098755468288	11.247	0.720	11.028	1.117	9.577	0.590	0.021
18042621-7447453	6417661629719563264	12.338	0.884	12.080	1.187	10.509	0.603	0.091
18042842-7051331	6431507302910109952	12.969	0.841	12.670	1.159	11.124	0.594	0.077
18045298-5543550	6652206220339855104	13.006	0.933	12.668	1.277	10.993	0.673	0.101
18045953+0826177	4476206639494994944	12.376	0.898	11.931	1.312	10.186	0.594	0.189
18052892+0754210	4475421897432191616	11.720	0.946	11.580	1.340	9.585	0.569	0.191
18062441-6457049	6629637992566177664	12.364	0.733	15.608	2.404	11.050	0.585	0.061
18063457+0547198	4471868065390279680	12.477	0.806	12.129	1.171	10.729	0.627	0.224
18072175+5952412	2158636960809774336	13.000	0.981	12.612	1.336	10.904	0.675	0.026
18073369+5849547	2152484604840257280	12.633	1.043	12.367	1.418	10.462	0.690	0.036
18082002-5104378	6702907209758894848	11.930	0.616	11.750	0.906	10.527	0.439	0.102
18083624-6750220	6435985682492232320	12.056	0.848	11.882	1.076	10.468	0.584	0.087
18085682-2106299	4094063947258804608	12.915	0.703	12.668	1.012	11.313	0.432	0.300
18095421-6630506	6437097494904121600	12.748	0.613	12.615	0.823	11.673	0.372	0.059

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
18100815-6731119	6436045915114732672	12.644	0.776	13.999	1.479	12.089	0.660	0.094
18102490-7119083	6431254307857238784	12.246	0.753	12.017	1.043	10.653	0.549	0.098
18123519-6033510	6635102251817906304	11.185	0.960	11.187	1.192	9.411	0.646	0.090
18124977+5854462	2152380494834185984	12.708	0.720	12.360	1.103	10.905	0.606	0.025
18135644+4824196	2122140905709563904	12.068	0.806	11.781	1.182	10.256	0.583	0.037
18141754+1612114	4498809506188122624	10.582	0.654	10.394	0.967	8.922	0.601	0.183
18145902+5852559	2152342188021376384	12.863	0.810	12.517	1.168	10.999	0.573	0.028
18150365-3751206	6727766450449365248	12.867	1.007	12.541	1.309	10.803	0.613	0.125
18162072-4725281	6707603223921252608	11.761	0.757	11.486	1.081	10.062	0.537	0.082
18165208+6146498	2159095113561329024	12.585	0.893	12.333	1.194	10.773	0.630	0.037
18171654+1311582	4485396250300800768	12.904	0.854	12.724	1.077	11.247	0.606	0.132
18190641-6824118	6432812045255424128	11.915	1.031	11.501	1.266	9.848	0.665	0.124
18191919-2029254	4091364130814956032	11.126	1.031	10.903	1.227	9.366	0.540	0.300
18192007-5552473	6649365494611393920	12.407	1.233	11.947	1.498	10.012	0.754	0.106
18193127-3713134	6728130968571404800	11.629	1.050	11.317	1.334	9.575	0.672	0.099
18194826-5310564	6653631805885843200	12.379	0.826	12.118	1.124	10.649	0.583	0.094
18203066-2016012	4091455699522188416	10.755	0.787	10.608	0.981	9.337	0.443	0.300
18204921-3419480	4044557100560972800	12.920	0.520	12.891	1.286	11.234	0.707	0.134
18211549+5653298	2150956936513301632	12.069	0.801	11.900	1.097	10.463	0.585	0.049
18220774-7608090	6413638383531665664	11.927	0.807	11.726	1.057	10.320	0.587	0.145
18223327-5258169	6653722004497397120	12.255	1.129	11.961	1.427	10.145	0.713	0.074
18231998-3926193	6726604713316398336	12.046	1.101	11.731	1.391	9.941	0.695	0.095
18232072-7312133	6418085663251356416	12.860	-0.420	12.899	1.120	11.470	0.601	0.095
18273263-5638304	6648380469631584128	12.014	0.801	11.777	1.070	10.397	0.566	0.084
18274709+1732530	4522680968780032128	13.030	0.945	12.575	1.356	10.794	0.629	0.242
18285509-3410250	6734946570607247360	10.692	0.804	10.633	1.065	9.116	0.529	0.125
18293868-2010483	4092688806190705152	11.978	0.935	11.680	1.252	10.117	0.503	0.300
18301354-4555101	6708532208165979392	12.059	0.857	11.807	1.112	10.393	0.649	0.049
18302241-3955233	6723716880376076928	12.872	0.810	12.592	1.158	11.084	0.599	0.098
18305087-6953306	6431994249123338240	12.978	0.972	12.547	1.247	11.009	0.640	0.087
18311217+4103160	2110452925308798080	13.037	0.919	12.644	1.233	11.038	0.641	0.071
18315993-6920161	6432068225640386432	11.913	0.994	11.630	1.257	10.028	0.662	0.078
18321423-3829407	6726896461847358848	13.871	0.800	13.624	1.083	12.195	0.550	0.086
18324025-6202554	6631161743881174400	12.923	0.970	12.610	1.258	10.979	0.618	0.135
18334251+4115292	2110471101610527616	11.958	0.735	11.781	0.966	10.424	0.536	0.055
18340800-5627514	6649667246135478144	11.677	0.821	11.478	1.044	10.168	0.606	0.102
18352484-3639135	6733341416736455936	11.959	0.746	11.710	1.054	10.297	0.545	0.098
18352710-4928306	6703851728906337152	12.982	0.834	12.699	1.101	11.292	0.631	0.058
18354018-3948416	6723580609650147712	10.432	0.787	10.209	1.067	8.831	0.555	0.078
18360814+1919587	4524742759245230592	12.589	0.939	12.116	1.379	10.320	0.685	0.234
18361214-7333443	6418205892271978624	11.798	1.006	11.425	1.339	9.692	0.659	0.119
18371329-3141091	4046640705089371136	12.470	0.819	12.181	1.184	10.646	0.606	0.111

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
18373068-5538076	6649914292651257984	12.092	0.942	11.785	1.252	10.164	0.645	0.089
18395804+4820336	2119887903305583104	12.040	1.079	11.688	1.381	9.957	0.696	0.051
18404278-5822181	6636472453764175744	12.098	0.821	11.841	1.105	10.302	0.635	0.086
18405632+5805144	2154314260908589184	11.743	0.881	11.469	1.164	10.017	0.626	0.040
18411282-6105584	6632762873329420544	11.863	1.056	11.514	1.373	9.766	0.720	0.093
18430593-7820300	6364899129015765248	12.099	0.958	11.702	1.301	10.031	0.662	0.101
18462350-4939426	6656086710412617344	12.549	0.903	12.305	1.188	10.739	0.625	0.050
18482959-4911163	6656206965197014272	13.021	0.721	12.874	0.908	11.809	0.499	0.050
18490576-5304063	6651390073476420736	13.017	0.966	12.757	1.237	11.207	0.647	0.060
18491122+4005588	2098297480667292160	12.942	0.967	12.992	1.241	11.427	0.649	0.082
18512136+5319111	2146237458947371520	12.316	0.702	12.152	1.015	10.818	0.554	0.045
18515139+7849432	2293311669034242432	13.016	0.713	12.772	1.041	11.419	0.525	0.067
18523585+4032042	2103587162389240064	13.243	1.122	12.888	1.419	11.123	0.731	0.095
18523981+4129288	2104473093882735104	13.693	0.996	13.425	1.173	11.907	0.626	0.086
19024429+5351114	2134680487931467648	11.703	0.684	11.880	0.933	10.364	0.591	0.045
19025533+4219090	2104015387809994496	11.973	0.599	11.726	1.119	10.250	0.605	0.066
19032297-4757304	6662155460541591424	11.820	0.854	11.613	1.061	10.294	0.569	0.060
19035178-5108429	6657682239223060736	11.617	1.085	11.262	1.365	9.548	0.691	0.054
19044854+5029122	2133638842399952256	13.615	1.016	13.430	1.050	12.050	0.525	0.050
19052503-7826440	6364286563599950592	11.221	0.961	10.958	1.281	9.274	0.731	0.146
19055032-5206090	6656823172744784384	12.981	0.995	12.644	1.304	10.982	0.666	0.064
19060062-5118110	6657644374791106304	13.724	0.878	13.405	1.210	11.817	0.640	0.062
19060226-6310122	6438853483690577024	11.209	0.956	10.823	1.294	9.106	0.701	0.047
19120066-6302562	6438895574370061568	13.603	0.937	13.335	1.198	11.773	0.633	0.039
19131047+3313392	2043394428389668992	12.323	0.940	12.080	1.217	10.476	0.602	0.111
19155183-4922541	6658254874322598016	12.777	0.758	12.518	1.058	11.140	0.593	0.060
19155497+4038463	2101342715562410240	12.126	0.991	11.811	1.221	10.244	0.609	0.088
19160765+4246319	2102705938181969408	12.128	0.622	11.818	1.124	10.329	0.580	0.090
19184233+8121549	2295494715010792576	11.721	0.739	11.483	1.087	9.983	0.628	0.052
19214950-7947382	6361002631604746752	11.345	1.103	10.964	1.434	9.012	0.740	0.300
19232375+4720104	2129167334770344704	13.023	0.834	12.744	1.196	11.169	0.615	0.075
19233833+4018284	2101121026531480960	13.472	1.195	13.195	1.257	11.554	0.671	0.101
19242686+8215294	2295685828172114688	12.039	0.532	12.300	0.726	11.180	0.516	0.057
19253278-2828581	6764789893132461568	14.610	0.851	14.371	1.115	12.901	0.583	0.104
19275678+3601156	2049957756892384256	11.463	0.814	11.347	1.060	9.822	0.612	0.098
19280042+4614069	2126804793521418112	13.783	1.045	13.503	1.185	11.947	0.627	0.083
19281201-2900223	6764699423940862080	12.027	1.013	11.707	1.306	10.060	0.694	0.106
19281988-6339344	6441410874720278272	12.760	0.799	12.494	1.116	11.034	0.620	0.051
19333143+8023242	2295227331824267136	12.280	0.796	12.100	1.122	10.587	0.653	0.067
19352572+5114261	2136022446171534848	12.157	0.944	11.869	1.376	10.112	0.695	0.077
19375420+5750304	2238305511775896064	12.886	0.988	12.511	1.292	10.898	0.669	0.057
19383369+4309290	2077979845822635648	12.443	0.743	12.225	1.005	10.843	0.562	0.132

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
19411203-4509560	6684605636852993408	12.898	1.068	12.584	1.340	10.896	0.694	0.056
19423665+0502288	4290628386915732736	11.365	1.055	11.039	1.357	9.308	0.672	0.193
19433935+7749001	2291495585062080640	12.895	0.950	12.527	1.282	10.879	0.670	0.076
19440238-4515172	6684633743118584064	13.890	0.802	13.640	1.093	12.177	0.525	0.048
19460015-4844202	6671059481799424000	11.790	0.955	11.536	1.190	9.976	0.601	0.032
19481329-4903448	6670987390771270912	12.666	0.932	12.385	1.200	10.829	0.640	0.033
19491264+0358174	4242240117122573440	12.781	0.897	12.610	1.116	11.184	0.637	0.171
19493291+1245526	4305164750954492032	12.192	1.048	11.867	1.350	10.154	0.685	0.238
19501371-7714505	6365989359218055680	12.666	1.002	12.444	1.248	10.915	0.674	0.146
19512662-5013221	6669955297247174784	11.133	0.903	10.860	1.188	9.359	0.687	0.038
19523317+4918292	2086984326351707008	12.210	0.919	12.146	1.175	10.541	0.624	0.152
19533677-4832517	6670382182636447104	13.625	0.825	13.384	1.095	11.980	0.600	0.048
19545002+0803021	4298283770977735168	12.389	0.993	12.002	1.337	10.291	0.682	0.117
19550782+0003520	4237149584437046784	12.626	0.679	12.393	0.990	11.180	0.518	0.173
19552158-4613569	6671915382881993472	11.943	0.895	11.622	1.230	10.069	0.694	0.041
19580641-5217166	...	13.675	0.724	...	...	14.830	0.687	0.039
19583119+1403473	1807178962362590336	11.509	1.084	10.968	1.514	9.039	0.735	0.203
20000909-8240204	6347485957207236480	11.415	0.986	11.087	1.294	9.415	0.637	0.209
20015470+1103254	4300772996581672704	12.355	0.999	12.097	1.235	10.512	0.692	0.132
20021812+0356003	4247387510856965504	12.534	1.133	12.122	1.427	10.211	0.711	0.112
20032253-1142028	4190620966764303488	11.872	0.783	11.577	1.161	10.041	0.566	0.134
20035532-5028100	6667107184173771648	11.927	0.848	11.611	1.195	10.108	0.673	0.046
20042821-0634042	4219932228775714816	12.538	1.045	12.074	1.368	10.396	0.737	0.146
20052878-5431260	6473118900280458240	12.071	0.780	11.814	1.084	10.372	0.568	0.037
20065053-0824044	4192486700559707136	12.899	0.821	12.541	1.222	10.981	0.664	0.102
20065112-0135379	4235780417581602304	12.427	1.019	12.075	1.310	10.362	0.650	0.174
20071356+0151191	4243611826586899200	12.542	0.787	15.769	0.000	11.223	0.539	0.106
20082836+1011584	4299755432926365184	11.592	1.166	11.260	1.414	9.455	0.702	0.174
20083729-1136333	6880822690942721024	10.765	0.699	10.485	1.110	9.003	0.598	0.110
20111053-0042015	4236237642618470272	12.817	1.113	12.372	1.453	10.515	0.735	0.122
20115949+0328555	4244395262980430592	12.808	0.823	12.506	1.098	11.152	0.577	0.088
20120663-1720171	6873767610163223552	10.435	0.732	10.370	0.903	9.161	0.515	0.110
20121138-5616178	6471798631629401088	11.154	0.823	10.876	1.137	9.436	0.635	0.048
20121853-1451042	6877707847518537088	12.951	1.038	12.541	1.430	10.692	0.723	0.151
20124384+0008034	4236447546259730816	12.981	1.155	12.583	1.469	10.710	0.696	0.108
20125289+0124185	4242787188566429184	12.927	1.065	12.519	1.425	10.707	0.683	0.144
20125447-6143094	6442969093151242880	12.071	0.895	11.780	1.185	10.274	0.645	0.033
20145497-0643013	4217089677680862080	12.842	0.928	12.437	1.299	10.752	0.650	0.068
20152495-2220596	6852768686118280576	12.192	1.023	11.775	1.374	10.061	0.706	0.096
20153131-5719468	6468635748993114112	11.899	0.907	11.580	1.191	10.068	0.677	0.038
20160180-0523231	4217535808820767104	12.291	0.891	12.019	1.162	10.489	0.589	0.110
20160744-0552554	4217300027997089280	12.994	0.804	12.743	1.093	11.299	0.544	0.071

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
20165001-1040388	6881177219022208512	11.171	1.022	10.800	1.302	9.198	0.636	0.099
20165024+1403416	1803616579035764992	13.002	0.996	12.639	1.331	10.910	0.653	0.143
20174990-4403599	6673167103853359232	12.516	0.715	12.313	0.978	10.959	0.518	0.035
20180356-1301215	6879502009977573504	10.888	0.957	10.565	1.272	8.916	0.645	0.094
20185485-1428523	6876208079299850752	12.659	0.736	12.340	1.104	10.875	0.577	0.059
20192202-6130149	6430979984003489024	11.799	1.020	11.465	1.307	9.832	0.695	0.037
20194097-2922268	6797560699757276544	11.654	0.869	11.332	1.197	9.808	0.657	0.128
20200915-4813436	6668894268525757696	12.416	0.982	12.083	1.295	10.485	0.708	0.034
20203472-2757112	6846116468972086016	12.992	1.078	12.441	1.301	10.945	0.727	0.057
20204659-1002234	6905253392633848960	12.499	1.079	12.102	1.395	10.354	0.741	0.063
20205529-1340439	6876402624138104576	11.976	1.002	11.575	1.371	9.835	0.671	0.050
20210974-6637116	6425821762641148800	12.868	0.840	12.615	1.116	11.158	0.542	0.031
20214042-5350224	6472730429078350976	11.984	0.882	11.866	1.170	10.180	0.584	0.044
20214109-5550310	6469232749446813824	11.839	0.741	11.633	1.024	10.292	0.547	0.053
20214764-1610513	...	13.937	0.620	...	...	13.705	0.515	0.064
20214838-2917466	6797535960745546624	13.569	0.846	13.397	1.052	11.993	0.520	0.059
20231318-0728503	4216093593161355776	11.747	0.811	11.491	1.128	10.034	0.606	0.028
20231543-2104080	6859284155805054848	13.048	0.843	12.708	1.193	11.135	0.579	0.050
20232260-0807452	6906102627927525760	11.837	1.101	11.454	1.398	9.728	0.736	0.044
20233743-1659533	6873254241311424896	11.658	0.935	11.366	1.234	9.764	0.643	0.074
20235225-1628512	6873331791241472768	12.722	0.970	12.440	1.250	10.812	0.629	0.060
20241045-6720324	6425543307024121088	12.656	1.028	12.333	1.288	10.711	0.675	0.033
20242459-2529550	6848220487550880640	12.251	0.994	11.938	1.292	10.298	0.703	0.044
20244286-2618599	6847828584672684416	12.397	0.683	12.250	0.906	11.027	0.448	0.054
20244510-1605268	6874849529603646080	12.819	1.022	12.439	1.352	10.723	0.668	0.061
20255659-4915524	6668166013871841536	12.063	0.870	11.862	1.201	10.225	0.647	0.030
20263268-1025283	6904467555355890304	11.903	0.888	11.649	1.162	10.084	0.596	0.051
20271323-1658595	6862731949391812992	10.030	0.438	9.845	0.678	9.235	0.495	0.052
20273786-1444546	6875659938390010240	12.911	0.848	12.624	1.167	11.081	0.587	0.044
20273791-2627414	6847786940670450944	10.615	0.830	10.422	1.038	9.119	0.553	0.047
20274485-4223567	6679325159242871808	11.517	0.761	11.326	1.008	10.006	0.538	0.044
20275301-5141137	6475211236547281152	12.172	1.030	11.835	1.305	10.223	0.723	0.034
20275840-1556595	6874956658968640512	12.507	1.142	12.026	1.481	10.228	0.736	0.059
20281482-5351378	6473996241838555392	12.768	0.742	12.549	1.009	11.193	0.523	0.039
20284544-2638089	6847769863878031616	10.294	0.651	12.303	0.000	9.221	0.489	0.048
20290062-2157354	6855992046192920960	12.552	0.874	12.328	1.099	10.916	0.581	0.064
20290527-5059527	6475303698603197824	12.632	0.738	12.502	1.018	11.052	0.586	0.030
20292008-4513468	6675597235006194432	11.359	0.915	11.188	1.181	9.778	0.698	0.031
20293622-3652218	6694857444613732352	12.394	0.838	12.137	1.067	10.834	0.631	0.041
20301912-2844399	6797804306004518400	12.969	0.872	12.743	1.119	11.280	0.569	0.048
20313318-3054125	6796525780141266304	12.268	0.796	12.102	0.993	10.836	0.471	0.083
20314518-5623277	6469004910021548672	12.997	0.801	12.801	1.057	11.466	0.582	0.050

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
20331212-4200270	6679615950005226240	12.197	0.722	11.989	0.992	10.706	0.537	0.038
20331607-5047126	6475629909958997376	12.365	0.765	12.205	0.988	10.949	0.525	0.031
20351407-4625056	6674758921813508736	12.855	0.946	12.468	1.241	10.890	0.710	0.032
20354257-0714557	6907591641550947072	10.884	0.942	10.580	1.235	9.038	0.731	0.044
20373334-3645452	6683227639544432512	13.242	1.133	12.775	1.491	10.945	0.704	0.037
20375779-2518252	6800352497219577728	14.468	0.790	14.233	1.058	12.821	0.531	0.040
20381947-2750475	6798666258699212672	12.703	0.675	12.480	0.973	11.199	0.495	0.049
20385050-2657542	6799133551141107712	11.866	0.442	11.649	0.793	10.398	0.555	0.066
20404939-5843259	6455696764877344896	13.370	0.942	13.079	1.235	11.495	0.654	0.068
20410627-3251350	6792327226270824832	12.756	0.799	12.543	1.071	11.135	0.515	0.055
20414841-5237274	6471501763492187520	12.601	1.092	12.204	1.355	10.514	0.670	0.027
20430947-3600325	6779175490951538560	12.959	0.780	12.725	1.075	11.320	0.580	0.040
20440973-2940093	6795239665071836160	12.920	0.941	12.633	1.202	11.051	0.598	0.058
20442721-7405038	6369772538209241216	12.600	0.651	12.313	0.968	11.110	0.515	0.051
20443065-2936534	6795263648167892992	11.820	1.075	11.469	1.127	10.073	0.571	0.060
20445501-3732403	6778221802053181824	12.992	0.911	12.737	1.111	11.356	0.618	0.032
20451053-2934207	6795077693263710080	10.946	0.768	10.722	1.018	9.431	0.542	0.063
20460102+1506250	1762690140608564480	11.609	1.390	11.336	1.523	9.424	0.737	0.098
20461039-3940468	6678691295087392640	12.875	0.787	12.631	1.086	11.169	0.504	0.036
20461191-3833114	6681901765961577344	12.370	0.750	12.160	1.024	10.845	0.562	0.039
20465470-3948150	6678675249089470464	11.574	0.847	11.315	1.126	9.866	0.606	0.037
20474129-4949312	6480909150618081536	11.979	1.133	11.599	1.451	9.832	0.709	0.027
20480642-3520259	6779625977182979328	12.567	1.035	12.256	1.265	10.656	0.647	0.058
20485047-7341446	6370159673678547712	12.971	0.958	12.431	1.426	10.631	0.704	0.048
20485505-4125356	6678289698465087232	12.752	0.765	12.461	1.115	11.005	0.594	0.035
20490816-2214501	6807184278357672576	12.923	0.913	12.503	1.311	10.841	0.723	0.074
20492765-5124440	6477616903566840064	11.525	1.136	11.162	1.385	9.448	0.714	0.028
20504877+1007551	1751382561168000256	12.529	1.029	12.406	1.363	10.443	0.724	0.065
20512785-4843325	6481344866460154880	12.666	0.992	12.457	1.227	10.849	0.671	0.036
20523629-5241033	6477303675894157824	13.050	0.874	12.662	1.205	11.155	0.633	0.028
20530472-3836380	6774883405575766400	12.448	0.907	12.169	1.223	10.606	0.638	0.043
20531334-4520139	6484187516335125760	11.404	0.927	11.159	1.187	9.584	0.635	0.043
20531555+1147415	1757847139781935616	12.960	0.956	12.648	1.257	11.025	0.628	0.094
20541462-4811494	6481473440600905472	13.035	0.726	12.805	1.019	11.469	0.542	0.027
20545308-4710289	6481731516596154368	11.687	1.016	11.327	1.324	9.673	0.681	0.027
20555702-3912091	6774608463246378880	11.632	0.800	11.408	1.074	10.053	0.563	0.036
20565365-5609461	6457897089506392064	11.968	0.848	11.708	1.139	10.246	0.606	0.045
20571292-4958553	6478163463924318208	12.925	0.824	12.642	1.131	11.150	0.577	0.035
20574855-4154444	6677344182887180800	12.847	0.885	12.898	1.124	11.129	0.597	0.036
20575772-5637258	6457695677015968384	11.949	0.957	11.672	1.208	10.114	0.619	0.052
20580267+1427040	1761667216837966848	12.518	0.821	12.209	1.176	10.694	0.598	0.082
20585673-4013142	6773745346616608000	11.702	0.864	11.512	1.081	10.059	0.566	0.029

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
20590249+1847021	1765354016765575680	11.314	0.997	10.948	1.358	9.139	0.731	0.114
20592599-4724182	6483013375355411200	13.052	0.960	12.685	1.292	11.028	0.652	0.029
20595162-4937337	6478288460356702464	12.872	0.541	12.719	0.752	11.911	0.498	0.027
21011036-4537322	6483420263376508032	12.784	0.825	12.593	1.064	11.211	0.584	0.031
21011096-4148546	6581257453716372352	12.738	0.960	12.492	1.267	10.814	0.668	0.032
21014399-4913588	6478323339786839168	10.823	0.812	10.577	1.082	9.254	0.594	0.026
21032352-4211400	6581180590980731520	10.761	0.693	10.591	0.959	9.360	0.540	0.035
21032466-7254213	6370267975574142592	13.618	0.866	13.331	1.176	11.783	0.580	0.053
21032961-7321324	6370238112664426624	12.563	1.024	12.241	1.301	10.599	0.675	0.050
21042794-4710017	6480078194704569088	12.929	0.909	12.649	1.169	11.173	0.662	0.030
21051884-6831537	6376679571472808064	11.839	0.942	11.438	1.306	9.818	0.695	0.035
21054066-4520565	6483621714522704128	11.772	0.767	11.491	1.085	10.094	0.565	0.029
21080234+1835409	1788340995265967488	12.376	0.822	11.816	1.306	10.115	0.639	0.091
21091442-4721520	6480023214826621696	12.492	0.895	12.304	1.212	10.706	0.659	0.027
21092218-4250491	6580163542725955840	11.722	1.043	11.405	1.291	9.808	0.703	0.029
21094841-5600060	6463024322681098368	13.545	0.765	13.347	1.027	12.019	0.546	0.028
21095801+1725439	1788003032879354752	10.747	0.799	10.473	1.136	8.979	0.557	0.091
21102133+3016061	1852687405024593024	11.413	0.981	11.087	1.261	9.467	0.659	0.144
21105535+2140380	1790165875330692352	12.559	0.829	15.432	1.751	10.638	0.621	0.154
21110533-4239222	6580263048527430400	12.235	1.009	11.883	1.315	10.220	0.683	0.034
21111175-4126536	6581456534040000128	11.877	0.782	11.625	1.073	10.228	0.587	0.030
21114008-5138220	6476892256683323008	13.899	0.778	13.693	1.026	12.360	0.555	0.022
21115127-5257071	6464688708407259008	10.822	0.786	10.523	1.111	9.099	0.597	0.032
21120163+2520001	1841468911788506112	11.870	0.908	11.647	1.195	10.091	0.641	0.110
21125173+2110327	1790077841384173312	12.102	0.887	11.767	1.206	10.175	0.603	0.118
21134390-6802355	6399985335331112064	12.681	0.803	12.455	1.085	11.043	0.606	0.033
21145602+2112242	1791382721170477824	11.459	0.925	11.117	1.255	9.460	0.622	0.094
21150824+2631245	1847680160351457024	11.017	0.934	10.703	1.313	8.885	0.661	0.128
21151790-4333404	6579952677010742272	12.929	0.815	12.657	1.108	11.182	0.541	0.030
21154971-6848520	6375872461218303488	12.815	0.800	12.552	1.099	11.120	0.590	0.042
21171659-4115323	6580773015762728704	11.609	0.862	11.285	1.209	9.761	0.668	0.026
21190273+3318462	1854629726683249024	12.168	1.012	11.927	1.148	10.421	0.599	0.159
21192932-7715553	6356252535213950592	11.776	0.724	11.535	1.043	10.154	0.547	0.089
21203573-5321426	6463751271665659264	12.264	0.800	12.060	1.065	10.656	0.546	0.022
21211669+2032551	1790500809763786624	12.503	0.942	12.133	1.244	10.520	0.627	0.088
21214670+1916532	1785668323017152384	12.826	0.927	12.418	1.270	10.807	0.685	0.071
21232828-5328287	6463713682111820160	12.078	0.822	11.842	1.090	10.433	0.603	0.019
21240060-5241520	6465286018099447680	11.684	0.831	11.420	1.106	10.003	0.601	0.017
21243758-6400120	6403279953204895360	10.700	0.800	10.409	1.148	8.895	0.680	0.029
21254398-6753045	6399850542078013568	10.918	1.016	10.617	1.269	9.047	0.653	0.023
21262879+1749436	1784515446419862656	12.884	0.911	12.570	1.221	10.867	0.690	0.061
21263180+2031469	1790358392944627712	12.031	0.915	11.789	1.287	10.131	0.662	0.079

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
21281884-6406460	6403090356168392192	12.689	0.923	12.421	1.221	10.867	0.663	0.031
21292831-5558258	6460174865281654144	12.430	0.962	12.094	1.250	10.551	0.694	0.037
21313828-6858199	6396651616076109184	13.751	0.801	13.502	1.098	12.067	0.565	0.025
21322880-6607539	6400620298999247488	13.115	0.974	12.606	1.450	10.827	0.731	0.027
21323054+1600097	1772048878641647488	11.703	0.797	11.409	1.094	9.975	0.588	0.090
21340283-6224209	6403844758583266688	12.342	0.789	12.096	1.072	10.694	0.563	0.032
21343861+1538156	1771832962045862656	12.895	0.905	12.563	1.193	11.022	0.598	0.092
21351702-5533118	6460110479427930624	11.911	0.789	11.663	1.083	10.260	0.588	0.035
21373999-2446495	6814831136913490048	12.156	0.952	11.901	1.246	10.264	0.660	0.041
21391225+3849406	1953863502940549504	12.616	0.763	12.998	1.162	11.425	0.597	0.235
21393394-5845548	6458363870847393792	12.537	1.099	12.210	1.347	10.532	0.701	0.035
21414000-2854239	6809748884932883712	12.057	0.926	11.782	1.194	10.271	0.675	0.033
21430664-6338509	6402785069892389760	11.653	0.782	11.377	1.074	9.991	0.555	0.034
21440820+3813139	1952857308060989312	12.870	0.979	12.483	1.314	10.761	0.681	0.234
21445442-6319381	6402818531980755584	12.822	0.885	12.480	1.312	10.712	0.692	0.027
21453847+2351116	1794596868534480128	10.517	0.713	10.262	1.040	8.887	0.558	0.070
21461136-5420472	6461349457233919872	11.726	1.104	11.302	1.451	9.501	0.701	0.016
21480606+4643071	1974610531448247936	12.154	1.213	11.618	1.463	9.757	0.782	0.300
21482057+2155222	1793330952694172416	12.790	0.846	12.479	1.181	11.021	0.593	0.101
21494865+1048431	1765600930139450752	12.082	0.821	11.862	1.102	10.419	0.583	0.079
21502426-6105576	6409890217109702784	13.796	0.957	13.463	1.264	11.867	0.681	0.033
21510307+3619543	1949409175177462272	12.052	1.212	11.625	1.520	9.690	0.728	0.210
21513710-7925459	6355014691279286400	13.023	0.864	12.684	1.145	11.215	0.600	0.113
21515415+0537172	2697022209558112768	11.214	1.015	10.869	1.293	9.233	0.689	0.043
21525027-6604240	6398934786330198784	11.634	0.850	11.478	1.143	10.000	0.675	0.031
21555532+3501402	1948312515407711104	12.850	0.969	12.543	1.275	10.868	0.664	0.149
21573551-0308043	2670534149811033088	11.800	0.680	11.452	1.074	10.033	0.571	0.084
21573761+3544196	1948748437403259776	12.982	0.944	12.651	1.342	10.921	0.667	0.171
21584417+0052490	2681491607815613952	12.214	0.721	11.952	1.024	10.592	0.513	0.040
21584491+0129524	2681597607608087040	11.663	1.163	11.413	1.355	9.711	0.712	0.051
22013669-6918312	6396019706127003520	12.991	0.943	12.723	1.200	11.180	0.679	0.034
22032935-5635128	6412646138709077888	12.703	0.872	12.478	1.141	10.976	0.577	0.019
22040352+0016519	2680470706974136192	12.150	1.028	11.702	1.374	9.954	0.699	0.049
22043661-6044348	6409307304149253248	12.322	0.704	12.100	1.027	10.753	0.522	0.034
22044480+4148205	1959828147361822848	13.032	0.813	12.779	1.099	11.357	0.583	0.224
22050237+3107332	1898564081014685184	12.470	0.739	12.705	0.983	11.151	0.661	0.080
22082896-6607320	6399063394830844544	12.961	0.727	12.763	1.018	11.422	0.529	0.029
22104990-3947023	6573266443723504768	12.897	0.738	12.708	1.008	11.374	0.566	0.015
22112456-3753100	6574080735161542784	10.855	0.952	10.585	1.195	9.046	0.624	0.015
22115350-1209181	2612971211403496832	11.810	0.812	11.559	1.126	10.093	0.583	0.033
22120815-4215210	6569918602615687808	13.081	0.755	12.831	1.048	11.458	0.537	0.011
22125424-0235414	2675834650555144576	12.218	0.705	11.993	0.982	10.749	0.566	0.068

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
22125459-0408594	2627229884351014144	11.671	0.952	11.352	1.247	9.763	0.656	0.080
22140658-0016065	2678634350759886336	11.804	1.077	11.394	1.466	9.553	0.723	0.070
22165631-1154207	2612857755547023232	11.083	0.741	10.936	1.004	9.640	0.578	0.041
22211976-4111021	6569481855982624640	11.522	0.857	11.246	1.165	9.750	0.632	0.011
22213981+3725402	1906965002686762496	12.888	0.851	12.763	1.135	11.088	0.655	0.105
22221878-7406283	6357952517629300352	12.497	0.828	12.046	1.267	10.413	0.624	0.038
22224538+3555471	1905936405260048384	12.611	0.966	12.319	1.275	10.659	0.660	0.118
22224859+2804264	1881899328730042368	11.703	0.806	11.493	1.102	10.039	0.565	0.069
22225487+2954084	1894651090929156096	12.834	0.823	12.545	1.116	11.087	0.575	0.065
22234372-8627533	6342106630928779392	12.969	1.148	12.543	1.558	10.608	0.740	0.140
22235096-6512086	6404249993041212928	11.550	0.742	11.471	0.965	10.145	0.520	0.025
22241668+2548128	1879125024671706624	13.047	0.759	12.896	1.003	11.541	0.610	0.050
22241984+2430382	1878702846566493440	12.076	0.825	11.684	1.120	10.155	0.642	0.058
22244368+3236401	1901779602770732032	13.028	0.987	12.656	1.189	11.127	0.672	0.071
22251594+2911332	1894379923873649536	11.472	0.735	11.221	1.026	9.849	0.563	0.059
22280812+3546524	1905786459361887488	12.448	1.081	11.936	1.394	10.206	0.741	0.102
22284549-4124119	6593293356532115712	12.926	0.793	12.480	1.247	10.906	0.645	0.012
22290341+3954145	1909092729485051776	12.040	0.883	11.764	1.147	10.415	0.656	0.122
22293323+4332048	1981952760850101376	11.527	0.816	11.224	1.172	9.671	0.615	0.126
22294083-3305402	6600574876582217344	12.021	0.852	11.773	1.163	10.263	0.615	0.011
22303946-1809055	2594309161890648320	11.503	1.122	11.025	1.484	9.212	0.706	0.037
22310829+3023018	1900531824573844608	12.603	0.721	12.391	1.080	11.024	0.589	0.074
22311433-6656572	6386075551166390144	11.560	0.878	11.306	1.157	9.813	0.629	0.021
22315231+2320202	1875411630307299456	12.493	0.710	12.365	0.979	11.051	0.653	0.042
22342447+2739353	1881261994239589888	12.000	0.961	11.591	1.220	10.050	0.686	0.040
22345447-6605172	6392134513070641408	11.359	0.776	11.135	1.087	9.722	0.592	0.021
22354139-4305549	6520905878946665344	12.088	0.830	11.849	1.115	10.382	0.606	0.013
22355721-2434108	6623904314300239488	12.344	1.088	14.476	0.000	10.262	0.738	0.022
22360602+3930413	1908318669000212480	12.223	0.902	11.928	1.181	10.440	0.663	0.159
22364074-7026524	6384994623861077376	12.884	0.625	12.937	0.797	11.922	0.409	0.022
22373316-4341181	6520826714109323392	10.977	0.770	10.736	1.064	9.384	0.594	0.010
22401067-3738259	6595625729931613568	11.411	0.900	11.155	1.173	9.673	0.637	0.014
22412632-3627304	6596002145160945664	11.821	0.812	11.573	1.107	10.118	0.553	0.011
22413573+2931038	1887539965117822464	12.098	0.942	11.734	1.291	10.108	0.669	0.061
22432022-7547340	6357547759911189120	11.766	0.665	11.727	0.838	10.572	0.463	0.061
22451263+3532066	1903656636619168768	12.652	1.010	12.268	1.310	10.585	0.677	0.077
22453503+1301210	2731609959149919360	12.444	0.845	12.171	1.164	10.627	0.564	0.046
22454796+2826260	1887186850086385152	12.945	0.858	12.638	1.165	11.074	0.633	0.047
22471965-7201440	6382433144021702656	11.658	0.724	11.472	0.985	10.145	0.637	0.025
22472643+3532411	1903562838830927744	12.502	0.917	12.207	1.166	10.690	0.621	0.090
22473447-5511534	6505905757201226368	12.023	0.674	11.723	1.001	10.329	0.626	0.018
22474545+2517113	1876790894628571264	12.742	0.927	12.488	1.198	10.996	0.711	0.099

(continued)

Table 2 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
22481449-5703067	6504026829267642240	11.927	0.659	11.767	0.889	10.606	0.528	0.011
22490353-5536242	6505879059684460032	11.009	0.880	12.480	0.000	9.278	0.635	0.012
22492811-5717202	6503988105842414464	12.964	0.773	12.644	1.037	11.382	0.578	0.012
22511876-3814381	6547694891340666752	11.217	0.834	11.032	1.071	9.681	0.593	0.013
22512739-5049405	6513929237145370880	11.082	0.825	10.874	1.059	9.508	0.561	0.008
22531950-6647163	6391157150312476032	11.863	1.136	11.472	1.413	9.738	0.703	0.022
22534476-5456485	6506123701021637888	12.857	0.691	12.645	0.963	11.409	0.547	0.017
22534538+7919586	2285728337337892480	12.867	0.944	12.552	1.228	11.063	0.588	0.201
22544750-3509160	6554282379035795840	12.453	1.151	12.019	1.478	10.206	0.746	0.011
22575548-5622538	6493611254400172416	12.658	0.942	12.352	1.227	10.814	0.710	0.017
22591090-4829425	6515325616912384256	12.176	0.855	11.962	1.101	10.531	0.587	0.009
22594336-3819324	6546814427341069568	12.806	1.000	12.599	1.267	10.872	0.630	0.009
23003637+2820257	1885059776122105728	12.994	0.796	12.897	1.060	11.434	0.597	0.057
23022817-4059099	6543252452048113152	11.912	0.894	11.711	1.142	10.227	0.615	0.009
23035329-4139482	6543169129682052608	13.707	0.803	13.493	1.055	12.104	0.539	0.008
23043022+0155166	2652540916900514304	12.079	1.086	11.894	1.276	10.278	0.664	0.056
23044868-4311029	6541868716664047744	12.876	1.126	12.632	1.473	10.674	0.767	0.008
23055841-8636001	6341894558326196480	12.740	1.122	12.125	1.504	10.169	0.778	0.126
23064708+2802027	1884897937457948672	11.285	0.965	10.949	1.311	9.302	0.668	0.099
23083044-7441319	6378503729982312576	13.184	0.856	12.893	1.149	11.384	0.579	0.024
23085453-5226130	6500818969734685440	11.895	0.981	11.516	1.265	10.002	0.716	0.009
23093209-7132507	6381003327932886144	12.573	0.857	12.266	1.198	10.718	0.605	0.030
23100319-7702165	6354182945092770176	11.943	0.993	11.653	1.296	9.983	0.670	0.078
23123243-0240516	2638139066923296128	12.915	1.116	12.532	1.386	10.800	0.691	0.040
23124700+2701045	2845306436489791232	11.553	0.905	11.348	1.231	9.636	0.607	0.082
23130418-4332060	6541663554666433920	12.123	0.863	11.919	1.078	10.546	0.592	0.008
23131220+5425552	1996424051866554112	11.954	1.396	11.427	1.482	9.598	0.839	0.300
23133742-5336585	6500438435631474560	12.001	1.033	11.702	1.327	9.968	0.746	0.009
23164530-4047253	6548299386513340288	11.567	0.919	11.355	1.191	9.773	0.654	0.015
23235454-4730233	6526777614634204672	10.815	0.755	10.475	1.118	9.047	0.658	0.005
23273196+5438201	1995911404570328192	11.766	0.474	11.606	0.757	10.787	0.531	0.300
23293844+3337097	2872688983306031616	11.435	0.995	11.113	1.238	9.525	0.661	0.106
23321307+1950398	2824757388800259840	10.824	0.972	10.582	1.250	8.886	0.656	0.061
23341995+4703450	1938499679067388288	12.880	0.906	12.661	1.175	11.076	0.673	0.142
23362842-5537423	6496310731541441152	11.408	0.722	11.141	1.054	9.758	0.569	0.010
23371202+2100145	2826450808506230016	12.189	1.228	11.843	1.606	9.714	0.745	0.043
23400099+4959092	1943744250753474944	12.640	0.837	12.369	1.206	10.766	0.605	0.175
23421250-6346584	6485737793369175680	12.006	0.901	11.716	1.182	10.204	0.640	0.019
23430472-8200221	6350719930141819520	12.038	0.976	11.751	1.267	10.122	0.656	0.165
23433753+5008599	1943761190104941824	12.606	0.551	12.473	0.893	11.104	0.644	0.153
23450930+5538498	1994885560221975552	12.466	1.224	11.872	1.508	9.922	0.835	0.300
23465497+1201211	2763718305727188480	12.728	0.930	12.612	1.351	10.689	0.669	0.053

(continued)

Table 2 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V	$(B - V)$	G	$(G_{BP} - G_{RP})$	J	$(J - K)$	$E(B - V)$
23472384+4835469	1940559103007605120	11.378	0.990	11.025	1.297	9.378	0.718	0.123
23505349+1142348	2766637307235175296	12.560	0.672	12.213	1.074	10.793	0.543	0.053
23550005+1255039	2766874664308017408	13.025	1.008	12.590	1.384	10.854	0.709	0.048
23555398+5702462	1998062118035485056	12.298	0.885	12.062	1.192	10.369	0.620	0.300
23560245+1109200	2765621221052354816	12.378	0.886	11.982	1.292	10.352	0.657	0.075
23562635+0651168	2746230337064331776	13.016	0.960	12.696	1.216	11.148	0.656	0.060
23563722+4615436	1927134439687586560	12.410	1.113	12.131	1.869	9.931	0.779	0.106
23564530-4429484	6532542491534291968	12.930	0.811	12.616	1.138	11.142	0.588	0.010

Table 3. Stellar Atmospheric Parameters and Abundances

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
00003305-7953389	4634573766005607552	5280	2.06	-1.93	0.13	0.17	6.67	0.38
00020162-4430117	4994519032163925632	5036	2.00	-1.81	0.30	0.37	6.99	...
00040305-6106367	4905632480654004608	4648	4.13	-1.27	0.15	0.15	7.31	-0.19
00043646+4124062	384060304935385984	6068	3.51	-1.29	0.95	0.95	8.09	0.14
00045403+3524010	2876804519751163008	5455	3.52	-2.59	0.50	0.50	6.34	0.06
00052731+0025510	2546113345293028608	5397	4.41	-0.25	0.36	0.36	8.54	0.37
00060902-6238019	4904480471642380928	4810	1.41	-2.33	0.26	0.73	6.82	0.01
00071189+4724466	393031258963415936	5868	3.98	-0.53	0.46	0.46	8.36	0.30
00111339+0152512	2546752127188959232	5003	1.83	-2.39	0.44	0.62	6.65	0.26
00140089+3148167	2861747777456341120	5090	2.13	-0.83	-0.24	-0.19	7.42	...
00144636-2246093	2361100512255883904	4973	2.92	-1.14	0.22	0.24	7.54	0.59
00150914-3736048	2308246644711975680	4737	3.77	-1.68	0.77	0.77	7.52	-0.06
00152923-2436237	2336022438732700672	4768	4.66	-1.02	-0.31	-0.31	7.10	0.42
00152952-6121258	4904881106191486592	4875	1.52	-2.33	-0.07	0.44	6.54	0.21
00154806-6253207	4901504815220315648	4860	1.37	-2.50	0.25	0.76	6.69	-0.10
00162809-0505519	2443891577459590016	5430	3.08	-2.75	0.94	0.95	6.63	0.22
00163655+3538314	2876439211309388672	4996	1.94	-2.06	0.29	0.40	6.77	0.43
00163809-4912369	4977077135617904640	4648	1.13	-2.22	-0.44	0.24	6.45	0.30
00165353+3642326	2876647328245159552	5221	1.40	-3.01	0.61	1.07	6.49	0.42
00170767+4614488	392109932642310272	5265	3.57	-1.03	0.16	0.16	7.55	0.11
00175076-6819295	4706413931618489600	5069	1.84	-2.07	-0.18	0.01	6.36	0.21
00182947-7829325	4635466706886248448	5159	4.54	-0.86	0.35	0.35	7.92	0.20
00192284+4431554	385734487485292928	4974	4.51	-0.66	0.26	0.26	8.04	0.10
00202312-3950260	4997141779713479680	4693	4.14	-0.08	-0.72	-0.72	7.63	-0.07
00213396+0008219	2545302077511395968	4967	4.73	-1.03	-0.10	-0.10	7.30	0.39
00223511-4231148	4992150679821873664	5058	2.05	-2.48	0.43	0.46	6.41	0.19
00234358-1117357	2424691974134738816	5057	4.46	-0.85	0.25	0.25	7.82	0.29
00235345-6649211	4707128682896207872	5072	2.25	-1.61	0.28	0.30	7.12	0.11
00241677+2941440	2858965188404148480	5320	2.50	-0.22	-0.62	-0.59	7.62	0.17
00275509+3458068	365999795656991616	4989	1.50	-2.13	-0.19	0.28	6.58	0.34
00281899-6820268	4703742084003326080	4641	1.13	-2.44	-0.41	0.30	6.28	0.01
00293797+2103054	2796582811359131392	5207	2.09	-2.11	0.42	0.44	6.75	0.43
00301775+2957334	2858881625520606848	4822	1.47	-1.99	-0.15	0.30	6.74	0.40
00303445+2816193	2857835710788936832	4465	4.35	-1.67	0.42	0.42	7.18	-0.09
00311900+4957158	391597358363860608	5308	4.32	-0.26	-0.23	-0.23	7.95	-0.05
00325147+4107490	381063654713703040	5216	2.11	-2.81	0.45	0.46	6.08	0.41
00331311+2033190	2796309861892160384	5222	4.59	-0.60	0.02	0.02	7.85	0.16
00341417-3943068	4994368227272214784	4999	1.52	-2.48	-0.05	0.41	6.36	-0.04
00342795-2413107	2348080164279166208	4443	4.52	-1.99	0.59	0.59	7.04	0.16
00351869-2854190	2319002587146050304	5057	4.85	-1.00	0.16	0.16	7.59	0.49
00354136+1618228	2780880960680375808	4843	4.83	-0.88	0.04	0.04	7.60	0.37

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
00370433+4341208	387703815888550656	4608	0.75	-2.83	-0.01	0.72	6.32	0.28
00370966-4224102	4992914501101243264	5326	4.20	-0.73	0.29	0.29	8.00	0.23
00374809-2751193	2343095974991737600	4539	4.39	-0.46	-1.19	-1.19	6.78	0.05
00400685-4325183	4980747129334018944	4562	1.38	-3.07	-0.75	-0.20	5.16	...
00410089+3633397	365840847508048384	5192	1.73	-2.47	-0.19	0.08	6.04	0.54
00410467+1649478	2782313903504860032	4709	3.30	-0.97	-0.39	-0.38	7.09	0.32
00425182+1925361	2795241995584048000	5154	2.61	-1.56	0.05	0.07	6.94	0.33
00433651-2719379	2343181981712123520	4791	4.52	-1.20	0.13	0.13	7.36	0.32
00435264-2132285	2350389894612060544	5153	2.09	-1.87	0.32	0.35	6.91	0.13
00452879-5846450	4906911251332870144	4921	1.73	-2.33	0.29	0.58	6.68	-0.06
00463619-3739335	5000753194373767424	5031	2.74	-3.98	-0.15	-0.15	4.30	0.37
00482546-7441092	4685477782827620992	5401	3.14	-0.53	-0.25	-0.24	7.66	0.03
00482715-8224023	4629945985987660416	4870	1.38	-2.02	-0.10	0.41	6.81	0.44
00504527-6351504	4709709305405862656	4920	2.10	-3.25	-0.27	-0.27	4.91	0.25
00510748-7809118	4635149768362820096	4936	4.66	-0.17	-0.20	-0.20	8.06	0.00
00521010-6006097	4903551070783622528	4869	4.52	-0.05	-0.15	-0.15	8.24	-0.02
00522310-5804087	4907332914042242304	5472	3.62	-0.74	0.32	0.32	8.02	-0.05
00523111+3758286	367656523458156544	5289	2.66	-2.23	0.74	0.75	6.95	0.25
00582707+0633561	2553447805108682496	4906	1.49	-2.57	0.33	0.76	6.62	0.37
00594615+1223173	2584343227151274752	4843	4.28	-1.22	0.34	0.34	7.55	0.05
01021265+0428241	2551971405806340096	4774	1.41	-2.76	-0.51	0.04	5.70	0.29
01024809+4300486	376344555103575808	4641	2.15	-0.63	-0.49	-0.43	7.37	...
01031767+0908145	2581189278047060224	5122	1.99	-2.79	-0.02	0.01	5.66	0.54
01033338-7410471	4684860888081427840	5364	4.38	-0.32	0.28	0.28	8.39	0.01
01040440+0504477	2552119633717667584	5348	4.36	-0.69	0.55	0.55	8.29	0.43
01042513+4011391	371347102956265728	4906	4.45	-1.01	0.18	0.18	7.60	0.17
01042908+0755213	2578034366869468800	5094	4.77	-0.73	0.16	0.16	7.86	0.25
01051545-0041328	2533223147709485312	4811	4.58	-0.54	-0.24	-0.24	7.65	0.10
01065190-5244105	4927175937828177280	5003	2.38	-3.27	0.46	0.47	5.63	0.44
01132198-6139522	4710458244623085184	4841	2.07	-0.97	-0.47	-0.38	7.09	0.49
01200289-0158201	2533312006288169600	5153	2.24	-1.57	0.48	0.50	7.36	0.20
01250922-5614027	4910744423745801472	4774	1.37	-2.64	0.04	0.57	6.36	0.43
01253364-4148345	4984027698370924672	5738	2.95	-1.75	1.34	1.36	8.03	0.15
01253802-2911025	...	4054	3.91	-1.06	-0.45	-0.45	6.92	...
01291742-7139220	4687775246726470144	4835	1.35	-2.53	0.10	0.63	6.52	-0.06
01311599-4016510	5008222486100643200	4895	1.83	-2.41	0.45	0.63	6.65	0.50
01315199-6547540	4710799574264331904	5174	4.54	-0.96	0.40	0.40	7.87	0.18
01323787-1530302	2451901038631956224	5255	4.26	-1.12	0.38	0.38	7.69	0.34
01363655+5451319	409152813849385216	4897	4.73	-0.05	-0.48	-0.48	7.91	-0.08
01372246-4611110	4931138955692103424	5016	2.15	-1.43	-0.24	-0.21	6.79	0.03
01373378-6921368	4691261969896942848	4805	4.65	-0.93	0.13	0.13	7.63	0.05
01382048-7637319	4636801853303548416	5420	2.82	-2.10	0.47	0.48	6.81	0.28

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
01390079-7811248	4633446629147784320	4888	1.58	-2.07	0.02	0.42	6.77	0.18
01394297-1615477	2452308064092390784	4852	1.46	-2.22	-0.11	0.42	6.63	0.12
01430726-6445174	4710973567683306624	4965	2.15	-2.66	0.16	0.17	5.94	0.35
01481644-5717024	4718885485854328064	5282	1.84	-2.48	0.91	1.06	7.01	0.14
01481836-6022102	4717520854484700288	5394	4.03	-0.76	-0.11	-0.11	7.56	0.06
01512909-5049125	4940475493039087872	4796	1.53	-2.14	-0.13	0.32	6.61	0.32
01532990-7617103	4636731828156259712	5034	1.58	-1.88	-0.05	0.33	6.89	0.18
01535484+4743406	357061938652034816	5468	4.13	-0.13	-0.42	-0.42	7.87	-0.02
01541382-4927292	4940875062436326784	5075	2.07	-2.13	0.50	0.53	6.83	0.07
01542953-4953166	4940665261873824640	4722	1.28	-2.30	-0.32	0.32	6.45	0.16
01555066-6400155	4699467590815290368	4980	1.67	-2.67	0.18	0.48	6.25	0.06
01555808+5040276	359446465839056512	5217	4.02	-0.72	0.13	0.13	7.84	...
01570453-6511318	4699066135928244224	5333	3.25	-1.03	-0.08	-0.07	7.33	0.08
01585657-1624249	5141897776909177856	5294	2.97	-1.55	0.65	0.67	7.55	0.07
01592159+8341476	572808964949945088	5102	4.19	-0.05	-0.43	-0.43	7.96	-0.04
02002105-2520170	5121763691780187008	4617	2.27	-0.62	-0.62	-0.59	7.22	0.08
02002992+5657571	505258239019253760	5619	4.09	-0.25	-0.13	-0.13	8.04	-0.06
02013041-0949339	2462500536881830528	5033	1.80	-2.17	0.57	0.76	7.03	-0.11
02020691-8507254	4616783629211669888	4793	4.84	-0.50	-0.10	-0.10	7.84	0.31
02023240+5535052	504560598882408960	5429	4.64	-0.08	-0.28	-0.28	8.07	-0.07
02062328-0718389	2487426224965026688	5034	4.09	-1.14	0.29	0.29	7.58	0.25
02091623-2825011	5117222021562768256	4706	1.08	-2.38	0.09	0.72	6.77	-0.08
02121057-2136569	5124244804192255104	5162	2.17	-2.61	0.82	0.83	6.66	0.13
02131127-3617490	4965179285932359552	4887	4.49	-0.56	0.14	0.14	8.01	0.30
02143996-2731561	5116644773662434176	4605	3.93	-0.31	-0.86	-0.86	7.26	-0.06
02151298+4941500	355587661060325120	5271	4.19	-1.26	0.39	0.39	7.57	-0.03
02165682+4443112	352161380966711936	4745	4.75	-0.71	-0.13	-0.13	7.59	0.40
02165716-7547064	4637170571951777280	4673	0.74	-2.73	0.14	0.82	6.51	0.11
02184236-5351323	4743265369493805696	4884	4.24	-0.67	-0.23	-0.23	7.53	0.23
02184254-6111160	4701711045508666112	5136	2.19	-1.77	0.40	0.42	7.08	0.20
02194944-2701309	5117093275622914688	5974	4.33	-0.28	0.01	0.01	8.17	0.03
02200131-5909599	4738094228868954496	4976	4.90	-0.97	-0.40	-0.40	7.06	...
02200416-3505332	4966846038184021888	5096	1.63	-1.82	0.06	0.38	6.99	0.23
02202248-3221349	4970735118186763520	4697	4.33	-1.77	0.63	0.63	7.29	-0.03
02205873-6708044	4696223279895236992	4814	1.31	-2.72	0.18	0.74	6.46	0.26
02215591-1414291	5146733910084621440	5254	4.37	-0.36	0.14	0.14	8.21	0.02
02230945+3819551	331739842266523264	5191	4.24	-1.04	0.28	0.28	7.67	-0.05
02234760-4630467	4940121690813101056	5123	2.56	-1.27	0.13	0.15	7.31	0.22
02242892+7959144	562642266262613504	5395	4.44	-0.70	0.78	0.78	8.50	0.40
02243601-3101131	5066948639089274496	5509	4.53	-0.02	-0.22	-0.22	8.18	0.05
02255030-7822010	4632830898340209920	5275	2.40	-2.33	0.70	0.71	6.81	0.12
02260082-2250455	5120483443633370496	4781	2.57	-1.04	-0.54	-0.52	6.88	...

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
02263468-7052018	4645240501967006720	5003	1.69	-2.31	0.25	0.58	6.71	0.45
02263472-1610120	5145471979973495040	4558	4.57	-0.88	-0.39	-0.39	7.16	0.33
02263559-6118229	4701661876723001088	4720	1.35	-2.25	-0.26	0.32	6.50	0.20
02265573-3957537	4951576334231196160	4939	1.56	-2.01	-0.05	0.36	6.78	0.33
02272940-1844371	5131351909915040640	5170	1.97	-0.67	-0.35	-0.19	7.57	0.29
02281118+3107248	132459372685231872	5071	4.55	-0.73	0.27	0.27	7.98	0.18
02284342+8235565	569513114421444480	6129	3.50	-1.19	1.00	1.00	8.24	0.50
02295644-7231067	4643772207267807104	5490	4.46	-0.47	0.07	0.07	8.03	0.12
02302280-1713235	5133294712601873024	5014	3.89	-0.19	-0.21	-0.21	8.04	-0.09
02302823+3146355	134052560743210624	5198	4.30	-0.67	-0.03	-0.03	7.73	0.12
02314914-4251147	4950048081786940160	5105	4.35	0.06	0.22	0.22	8.70	-0.09
02322533-2955268	5067349028825362176	5265	4.26	-0.26	-0.42	-0.42	7.75	0.13
02332987-2602004	5070849431466425600	5122	4.45	-0.47	0.46	0.46	8.42	-0.05
02335901-5218323	4744814203419011456	5036	4.00	-0.83	0.72	0.72	8.32	0.15
02343390-3438203	5062336050373022976	5980	3.46	-1.15	1.02	1.02	8.31	0.11
02345434-3349391	5062448200558971136	4718	1.09	-2.38	-0.09	0.58	6.63	0.32
02361077-1202559	5171442680844060160	5152	1.59	-2.29	0.00	0.45	6.59	0.00
02371057-4036121	4951834822543543040	5862	3.75	-1.01	0.85	0.85	8.27	-0.13
02372192+4302214	340142202749502464	5248	4.38	-0.22	-0.42	-0.42	7.79	0.01
02384449-3325102	5062531071950987392	5121	1.92	-1.86	0.11	0.23	6.80	0.37
02394381-3631306	4953863662014601216	5874	4.37	-0.56	0.28	0.28	8.15	0.07
02401392+2556291	126323578110142848	5376	3.81	-0.51	0.29	0.29	8.20	...
02404390+4457499	340915713477131008	4844	4.77	-0.74	-0.09	-0.09	7.60	0.35
02425864-3709379	4953584523499875712	5204	2.39	-2.04	0.40	0.41	6.80	0.21
02431746-8608453	4613478261037323776	4627	0.64	-2.43	-0.44	0.31	6.31	0.25
02435125-2942551	5065856377366623872	4675	4.33	-0.34	-0.73	-0.73	7.36	-0.12
02451977+1332222	31933391083889152	5180	2.34	-2.36	0.41	0.42	6.49	0.32
02462323-3137296	5064607984993521792	5324	4.71	-0.49	0.21	0.21	8.15	0.05
02471497-6303000	4721297363392975488	4737	2.15	-0.68	-0.52	-0.46	7.29	0.23
02494852-2229202	5077735500993403648	5300	4.30	-0.37	0.17	0.17	8.23	0.29
02501156+3457476	140083622534201088	4686	4.82	-0.78	-0.17	-0.17	7.48	0.17
02512543+8333571	569663953674510464	4752	4.64	-2.47	1.08	1.08	7.04	0.08
02523341-4416060	4755176207159038080	4915	1.20	-2.27	0.32	0.82	6.98	...
02525369+2107466	109283900954164992	4665	4.92	-1.12	-0.01	-0.01	7.30	0.31
02525416-3228483	5052264558220148352	4718	4.44	-0.41	-0.37	-0.37	7.64	0.05
02532757-3454050	5049605732946898432	5099	2.14	-1.94	0.34	0.36	6.85	0.20
02533614-6234511	4721372684235614848	5240	2.85	-1.86	0.51	0.52	7.09	0.43
02564805-1942473	5128076774013414912	5237	4.45	-0.09	-0.15	-0.15	8.19	0.00
02571027+3318455	136508702211948672	4984	4.74	-0.77	0.24	0.24	7.90	0.03
02580877+0829424	8791969854015488	5492	4.71	-0.53	0.08	0.08	7.98	0.09
02590016-7209504	4645469170322185984	5100	4.13	-1.51	0.62	0.62	7.54	0.12
03042561+3112028	135287316592202880	5031	4.00	-1.35	0.64	0.64	7.72	-0.10

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
03042843-3406046	5050991770433282688	4938	2.33	-3.38	0.21	0.22	5.27	0.54
03044130-3635405	5047482782152551808	5319	2.86	-0.38	-0.14	-0.11	7.94	0.04
03053573+2834227	115967213665888000	5074	1.84	-2.66	0.62	0.75	6.52	0.41
03060595-5251430	4746980344406420736	5261	2.57	-2.16	0.48	0.49	6.76	0.17
03080797+3836489	142648478221664256	6068	3.82	-0.45	0.30	0.30	8.28	0.40
03091996-5853578	4724087928200048768	5062	4.25	-0.50	-0.29	-0.29	7.64	0.23
03095592-0459281	5182694120770155264	4853	4.25	-0.46	-0.21	-0.21	7.76	0.12
03104602+4514503	433115020506112512	4680	5.00	-1.03	-0.04	-0.04	7.36	0.40
03121034-5703094	4727345712434297984	4778	0.86	-2.27	-0.41	0.32	6.49	0.45
03123270-2849566	5059444369153859200	5035	1.63	-2.14	-0.06	0.32	6.61	0.28
03123346-5234570	4735321737284031232	5121	4.64	-0.89	0.18	0.18	7.72	0.29
03131491-8107109	4619392843320436608	5070	1.88	-2.36	0.32	0.49	6.56	0.12
03134048-8045218	4619419089865071744	5511	3.93	-0.80	0.29	0.29	7.92	-0.03
03135196+4230102	240424332130561024	5538	4.05	-0.62	0.20	0.20	8.01	0.08
03152783+3353586	137535813574478592	5377	4.50	-0.40	0.56	0.56	8.58	0.39
03155572+3357169	125528253246150656	4925	4.07	-0.87	0.17	0.17	7.73	...
03155933-7432577	4639776204054863232	4700	3.09	-1.45	0.62	0.63	7.61	-0.03
03163710+2332211	110907432953980800	4978	1.32	-2.61	-0.21	0.38	6.20	0.50
03170396-3740469	4854289415101796608	5010	2.78	-3.35	0.22	0.22	5.30	...
03171573-3747479	4854284497363037696	4812	4.72	-0.68	0.09	0.09	7.84	0.40
03173348-3705188	4854694001021568896	4920	4.22	0.10	-0.09	-0.09	8.45	-0.11
03180842+1814447	56110625281842816	5057	2.18	-1.63	-0.09	-0.07	6.73	0.49
03190720-5245069	4735169768457507968	5366	4.72	-0.43	0.09	0.09	8.08	0.03
03214149-5553303	4733473496892938368	5022	4.54	-0.18	-0.18	-0.18	8.07	-0.05
03220165-0020329	3262842880464520576	5231	3.53	-1.04	0.26	0.26	7.65	0.09
03222245-3731294	4854443793406263040	5291	4.73	-0.79	0.07	0.07	7.72	0.40
03223653+0859382	11176917949244800	4695	4.55	-1.09	0.26	0.26	7.60	0.04
03242169-3515217	4860920810247328256	5320	2.13	-2.47	0.07	0.08	6.04	...
03242519-1550054	5106733402188456320	4774	2.55	-0.86	-0.42	-0.40	7.18	...
03252266+8009505	568038153934104320	4922	1.10	-2.57	-0.02	0.65	6.52	0.49
03260086-4126000	4849648891917127424	4896	2.21	-0.91	-0.55	-0.53	7.00	0.46
03260534-2006507	5101544016542831232	4706	2.26	-0.70	-0.69	-0.66	7.07	0.44
03263031+0616326	9265348264761984	5002	2.37	-1.27	-0.02	0.00	7.16	0.25
03265306-0053348	3264007336293442048	4606	4.25	-1.20	0.08	0.08	7.31	-0.20
03265389+0202281	3268028903151246720	5212	2.75	-3.41	0.75	0.76	5.79	...
03275664-4544078	4846530329047408384	4881	4.45	-0.31	-0.19	-0.19	7.93	-0.02
03283529-4000252	4853194778260569856	5337	4.48	-0.42	-0.03	-0.03	7.98	0.11
03283748+1856359	57481853722629888	4907	1.45	-2.26	-0.04	0.47	6.63	0.35
03292423-6057094	4722654951015751680	4984	1.79	-2.66	0.25	0.46	6.23	0.25
03304035-0321071	3249179288121898752	5558	4.12	-0.17	-0.55	-0.55	7.72	-0.07
03305484-0304088	3249204710032811648	5105	2.79	-0.21	-0.53	-0.50	7.72	0.21
03312821+0749469	11354660875621376	4777	4.84	-1.35	0.12	0.12	7.20	0.33

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
03343133-0555030	3247331455752180992	4537	4.33	-1.36	0.14	0.14	7.21	-0.09
03351518+7823252	555315734952674816	4771	0.96	-2.41	-0.32	0.43	6.45	0.40
03354665-1356010	5113319751716905344	4927	3.92	-1.31	0.70	0.70	7.81	-0.09
03362369+2036490	58156438465188096	5257	2.39	-1.64	0.15	0.17	6.96	0.32
03362874-6005593	4728790397697259392	5011	3.59	-1.01	-0.39	-0.39	7.03	0.45
03365068-2327557	5086423493982030848	4899	4.04	-1.90	0.91	0.91	7.44	0.30
03365778+2917172	120001145732321536	4810	2.20	-1.04	-0.16	-0.14	7.25	...
03370393-4829266	4833641097832497408	5113	3.27	-1.46	0.86	0.87	7.85	0.36
03370580+1802236	56464972968303104	6440	4.14	-0.39	0.17	0.17	8.22	0.01
03385093-0255535	3250559347013995136	4842	1.57	-2.28	-0.03	0.44	6.58	0.23
03391370+0310345	3271273935626311808	4925	1.77	-2.31	0.05	0.32	6.44	0.42
03401638-5917516	4728932754388052224	5326	4.35	-0.47	0.30	0.30	8.26	0.26
03410147-1812508	5107448320968631040	4736	4.86	-1.06	0.08	0.08	7.46	0.37
03421349+2729013	71184787964000000	5205	4.80	-0.36	0.06	0.06	8.13	0.23
03425047-1013432	5116038431655398400	5097	1.62	-2.35	-0.20	0.19	6.28	0.27
03431186+7807495	554502989702092416	5317	3.96	-1.26	0.34	0.34	7.51	0.06
03435581-3212071	4863399349974669440	5214	2.24	-2.17	0.54	0.55	6.81	0.24
03440716-2841235	5080387454320334592	5576	4.05	-0.29	0.10	0.10	8.24	0.03
03440987-4057281	4854966508106088064	5174	4.24	-0.53	-0.38	-0.38	7.53	0.12
03445544-7517390	4628961755579625600	5301	4.47	-0.32	0.19	0.19	8.30	-0.02
03453731-8211290	4616039813892309376	5090	2.20	-2.31	0.46	0.47	6.59	0.15
03462539+2125305	63534390354375040	5014	4.34	-0.23	-0.27	-0.27	7.93	-0.07
03463330-0023036	3251527020325320960	4457	4.06	-0.26	-1.78	-1.78	6.40	-0.09
03464056-1703266	5108001001657825280	5099	1.56	-2.19	-0.09	0.34	6.58	0.21
03470283-7933197	4625542858531568768	5108	2.22	-1.71	0.24	0.26	6.99	0.13
03470366+7232599	543671700657298816	5661	3.19	-0.25	0.18	0.20	8.38	0.59
03475502-2219560	5087674875655599744	5220	4.20	-0.74	0.39	0.39	8.09	-0.06
03481276-2657207	5081024380790201984	5210	1.80	-2.22	0.29	0.52	6.73	0.26
03494330-1035255	3194196834787169152	4738	4.60	-0.60	-0.21	-0.21	7.62	0.08
03494712-2012428	5094777381468797568	4769	1.23	-2.37	-0.11	0.52	6.58	0.09
03505656+1915396	50799709243487232	4765	4.77	-1.03	0.15	0.15	7.54	0.06
03511385-1222556	5114516604484590848	4909	3.97	-0.30	-0.57	-0.57	7.56	-0.05
03514691-4821339	4830105381971162368	5007	4.50	-0.68	0.22	0.22	7.97	0.03
03515804+7834544	554892216818025088	5056	4.38	-0.47	0.37	0.37	8.34	0.27
03522200-7822390	4626118933904711936	5022	1.85	-1.99	0.31	0.48	6.92	0.11
03525823-2712362	5080850520514122368	5075	4.20	-0.44	0.47	0.47	8.46	-0.05
03532071+0332467	3272181586771744640	5277	2.02	-1.61	0.17	0.23	7.04	0.40
03535378-8214319	4616030261884997504	5112	2.18	-2.04	0.42	0.43	6.83	0.20
03542750-4930350	4829790406249501824	4980	3.72	-0.24	-0.08	-0.08	8.12	-0.10
03550575+0448406	3273182073633848576	5221	2.47	-1.29	0.21	0.23	7.37	0.23
03551870-3540553	4858448073019453568	5100	2.02	-2.20	0.57	0.63	6.85	0.13
03552492-3137538	4886536888554252288	4963	1.97	-1.39	-0.12	-0.02	7.02	...

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
03570714+1150353	3304873572159327104	5369	3.71	-0.88	0.22	0.22	7.76	-0.04
03575259-3507496	4858859741341036032	5146	3.95	-0.93	-0.30	-0.30	7.21	0.21
03580690-4125514	4842342190474113920	5469	3.64	-0.41	0.04	0.04	8.06	-0.04
03582857+0851479	3301417188637954304	4989	4.32	-1.30	0.33	0.33	7.47	0.19
03582979-0646599	3196842083667299968	4868	4.58	-0.44	-0.36	-0.36	7.63	0.06
03583609-3024329	4887268613542620160	5339	2.40	-1.09	0.20	0.22	7.56	0.37
03585372-2512589	5083157811305565184	5248	4.69	-0.90	0.41	0.41	7.94	0.19
03590972-7052417	4665955133531907840	5372	2.29	-2.22	0.44	0.45	6.66	0.45
04021386-2714330	4890018148526236416	5091	1.73	-2.02	0.53	0.75	7.16	...
04030414-2123136	5090671530172203648	5391	4.32	-0.41	0.05	0.05	8.07	0.41
04032141-5057006	4828667358199528064	4952	4.76	-0.55	-0.07	-0.07	7.81	0.21
04034276+0516322	3272889569179614464	5155	4.09	-0.51	0.20	0.20	8.11	...
04051129-3610404	4857845781166112384	4821	4.45	-0.35	-0.42	-0.42	7.66	-0.06
04062658-1417389	5110102993011576192	5198	2.55	-1.41	0.11	0.13	7.15	0.30
04064080-2822221	4889098510129080064	5491	3.92	-1.15	0.33	0.33	7.61	0.03
04065230-1132234	3190316692611552000	5562	4.65	-0.44	0.31	0.31	8.30	0.02
04065870-5405560	4779874227616110592	5294	2.38	-2.40	0.67	0.68	6.71	0.26
04071847-3844270	4844183765074837760	4931	4.58	-0.80	0.36	0.36	7.98	0.10
04073220-1508180	5097968885766682240	4678	4.38	-1.45	0.63	0.63	7.61	-0.06
04081065-4723248	4831180463825371776	4397	4.38	-1.88	0.04	0.04	6.60	...
04082208-8054055	4622225700669724160	5017	1.69	-2.12	0.12	0.44	6.76	0.16
04082291-3306502	4882442375971513216	4906	4.74	-0.82	0.26	0.26	7.87	0.31
04095634-2018250	5091033814957326464	5344	3.39	-1.56	0.50	0.50	7.37	0.29
04123785-0354082	3203733925629461376	5054	3.25	-0.49	-0.62	-0.60	7.34	0.13
04133760-2855548	4885822480873873408	5183	1.68	-2.22	0.00	0.35	6.56	0.10
04144546-4431586	4837831066064068480	4667	4.76	-1.58	0.57	0.57	7.42	0.09
04152012-4554089	4837327760319848576	5084	4.71	-0.33	-0.03	-0.03	8.06	0.07
04161576-0521188	3202575628785925888	6479	3.24	-1.31	1.79	1.81	8.93	0.16
04162853-6636540	4668867224438266368	5086	2.27	-1.71	0.08	0.10	6.82	0.37
04163240-0602269	3202394930922308096	5280	3.95	-0.88	0.56	0.56	8.11	0.52
04174265-5558407	4778645523371812480	5016	4.48	-0.69	0.28	0.28	8.02	0.07
04211598-4852031	4782730209069106432	5072	1.55	-2.57	0.01	0.42	6.28	...
04212925-5219577	4780985799511960576	4716	1.17	-2.16	-0.13	0.48	6.75	0.31
04213031-2030287	5091573542023760384	5170	4.24	-0.26	-0.26	-0.26	7.91	0.05
04215801-2739310	4892329974803162752	4996	4.06	-0.27	0.00	0.00	8.16	-0.08
04225741-8308401	4615741777521531136	5123	3.67	-1.12	0.34	0.34	7.65	-0.01
04242725-8157493	4621912305496245248	5375	2.85	-2.12	0.42	0.43	6.75	...
04251520-6213209	4675852078212908416	4984	1.53	-2.32	0.19	0.63	6.74	-0.04
04262201-3615167	4869018507227798400	5032	1.87	-2.16	0.45	0.59	6.87	0.01
04282895-3353452	4871041608622321664	5247	4.54	-0.47	0.44	0.44	8.40	0.09
04291257-4921466	4787721991859465728	5607	2.98	-0.28	-0.01	0.02	8.18	0.22
04293837-5448372	4776030816001572736	4934	4.66	-0.62	0.21	0.21	8.02	0.01

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
04311275-2258353	4898098833139598464	4845	1.14	-2.22	-0.09	0.54	6.75	0.29
04313335-7337168	4652567991051879168	5288	2.55	-1.69	0.34	0.36	7.10	0.13
04325046-3205240	4871721965802188160	5552	4.53	-0.14	0.05	0.05	8.34	-0.06
04330582-1605256	3172371116657963008	5564	3.57	-1.38	0.61	0.61	7.66	0.03
04332408+7049217	500082940861162240	5439	4.39	-0.48	0.39	0.39	8.35	...
04332826-0431033	3201331222141772928	4895	1.58	-1.84	-0.08	0.28	6.87	0.31
04334315+8752515	575291322904958208	4778	4.82	-1.12	0.28	0.28	7.59	-0.01
04354147-4750031	4788319503413123200	5504	3.79	-0.78	0.30	0.30	7.94	0.27
04354314-5355093	4777636927611794432	4883	1.19	-2.24	-0.13	0.49	6.69	0.18
04363802+7949143	556538739776801664	5135	3.89	-0.23	-0.40	-0.40	7.80	0.40
04391892-3404504	4868176796716806272	6152	4.07	-0.99	0.76	0.76	8.21	0.06
04392332-2434534	4894484605277323648	5393	2.79	-1.95	0.46	0.47	6.95	0.28
04392855-3957548	4816386358778340608	4835	4.59	-0.78	0.22	0.22	7.87	0.02
04400253-1922270	2978208560171576448	7596	2.12	-3.00	2.95	2.98	8.41	...
04404386-2741005	4879633570439853440	5052	1.68	-2.33	0.63	0.91	7.01	-0.02
04404847-4214219	4814898930000598272	4971	1.38	-2.59	-0.15	0.41	6.25	0.17
04404877-3530531	4867833886528092288	4693	1.39	-2.50	-0.48	0.09	6.02	...
04414545-1703252	2980627661847718016	5284	4.44	-0.24	-0.23	-0.23	7.96	-0.01
04452944-4656234	4786751256234998272	5147	3.33	-0.24	-0.68	-0.68	7.51	0.02
04455221+8238074	569892445935443200	4610	4.78	-1.19	0.10	0.10	7.35	0.25
04460040-5244239	4777958977143271936	4976	4.58	-1.02	0.43	0.43	7.84	0.41
04460379-4440454	4790350855440186752	4762	1.57	-2.12	-0.10	0.32	6.63	0.22
04480413-5133186	4784117101252301056	4832	4.75	-0.85	0.36	0.36	7.95	0.17
04481274-3428106	4873248568978164608	4787	4.76	-0.68	0.10	0.10	7.85	0.38
04482945-5127292	4784118686097335808	4842	2.70	-0.11	-0.88	-0.85	7.47	0.16
04504247-4831497	4786320148893885568	5113	4.45	-0.19	-0.08	-0.08	8.16	0.01
04505386+1803498	3406732187621193600	7843	4.53	0.23	1.70	1.70	10.37	...
04514248-3210438	4874664052759778304	4924	1.66	-1.89	0.21	0.49	7.03	0.23
04520803-2837181	4879979504285453184	5043	3.99	-1.06	0.64	0.64	8.01	-0.04
04522717-3451392	4873001625538322688	4671	4.72	-0.48	-0.15	-0.15	7.80	0.24
04525913-4008568	4816836269489019904	4806	1.30	-2.34	-0.13	0.48	6.57	0.20
04542625-4241431	4811990171989821824	4937	0.82	-2.63	0.50	1.07	6.87	...
04562421-3124177	4874779806424378496	4601	4.33	-0.40	-0.64	-0.64	7.39	0.02
04563790-5602511	4776246457719437440	4799	1.23	-2.21	-0.08	0.51	6.73	0.23
04582722-4611154	4810231400062085504	5301	2.82	-0.92	0.20	0.22	7.73	...
04583735-0449416	3212422747548345216	4927	4.43	-0.18	-0.76	-0.76	7.49	0.03
05000638+0109473	3228880619846899712	4772	4.61	-0.97	0.22	0.22	7.69	-0.05
05011881+0803047	3290174403068832640	5500	4.39	-0.47	0.12	0.12	8.08	0.45
05015088-4139079	4813429157832439168	4772	2.49	-2.15	0.36	0.37	6.65	...
05015244+6745243	483790308838071424	5581	4.48	-0.76	0.33	0.33	7.99	0.15
05021896-5152056	4783532062283301120	5157	2.47	-1.66	0.29	0.31	7.08	0.11
05022161-4603414	4810297405118590592	4532	4.68	-1.08	-0.05	-0.05	7.30	0.36

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
05024868+0053487	3228646389509963008	5336	4.40	-0.87	0.19	0.19	7.76	-0.10
05025851-3909387	4814331680783356800	5996	4.00	-0.15	0.41	0.41	8.69	-0.02
05042173-6614399	4662031938654411008	4921	4.80	-0.77	0.10	0.10	7.76	0.34
05043110+0151252	3229000397895064960	5441	4.01	-0.48	0.07	0.07	8.02	...
05065541-1056146	3181964218172190464	5060	3.67	-1.85	0.62	0.62	7.20	...
05070417-0543063	3211326195154437760	4889	4.16	-0.12	-0.43	-0.43	7.89	-0.14
05071155+3428162	184903053675527552	6158	1.40	-0.69	0.23	0.27	8.02	...
05071933+0950093	3290839985560775552	5404	4.80	-0.50	-0.02	-0.02	7.91	-0.07
05071949+2233222	3415364831369329024	5757	4.44	-1.34	0.65	0.65	7.75	-0.11
05085713+0345040	3238657198066863616	5041	2.27	-0.82	-0.06	-0.04	7.57	...
05090948+0758512	3242001298259483776	5073	1.75	-1.63	-0.06	0.18	6.98	0.30
05104812-0827001	3206923024747054080	5298	3.98	0.06	-0.43	-0.43	8.06	-0.08
05115864-0512205	3211775654892063360	5356	3.89	-0.06	-0.53	-0.53	7.85	-0.03
05120490+0354513	3235687077858885248	5232	1.93	-1.74	-0.04	0.06	6.75	0.40
05124167-4059465	4818944995352554496	4845	4.82	-1.38	0.08	0.08	7.13	0.44
05130026-2540113	2956447060393795200	4783	4.55	-0.91	0.28	0.28	7.80	0.05
05134078-0629405	3208349473581491968	4619	0.88	-2.43	0.07	0.73	6.73	0.34
05144882+7604501	503757371280728448	5667	3.52	-1.53	0.62	0.62	7.53	0.05
05145383+3147370	180592968094361472	5547	3.34	-0.29	-0.15	-0.15	7.99	0.41
05160558-1418474	2985144932353707264	...	...	...	...	...	...	...
05161882-0759103	3207022255670687488	5102	4.56	-0.40	-0.24	-0.24	7.79	0.17
05163919-0740502	3207049193707252992	5284	4.57	-0.10	-0.35	-0.35	7.98	-0.02
05165318-1711429	2982252980551829760	4565	0.85	-2.24	-0.26	0.45	6.64	0.33
05170982+0306456	3235326060087791232	4827	1.71	-1.93	0.21	0.47	6.97	0.26
05171185+7649087	551880864924665088	5077	4.57	-0.65	0.46	0.46	8.23	0.14
05172978-4253358	4800721449115828352	4682	1.41	-2.96	-0.39	0.14	5.61	0.27
05175177-1441274	2985070199923468416	4510	4.61	-0.68	-0.42	-0.42	7.34	-0.08
05180022-2418191	2958140484397025792	4979	1.32	-2.53	-0.25	0.34	6.24	0.31
05181193+1750335	3395305135071832448	5784	3.69	-1.72	1.08	1.08	7.79	-0.10
05181299-0356513	3213469349475577472	5219	3.46	-0.86	0.27	0.27	7.84	0.01
05183018-4217511	4806766701483968640	5736	4.04	-1.04	0.59	0.59	7.99	-0.13
05183839-0208303	3214278143356960256	4816	2.45	-1.78	0.87	0.89	7.54	-0.07
05191853-0625013	3207648530621533056	5392	4.73	-0.63	0.23	0.23	8.02	0.25
05202360-2522274	2957773415014463872	4619	4.64	-1.22	-0.49	-0.49	6.72	0.21
05204433-0757598	3207154098284136064	5462	3.82	-0.16	-0.49	-0.49	7.78	0.04
05211432-1032144	3014044878233010304	5166	4.70	-1.38	0.66	0.66	7.70	0.12
05221674+1850154	3401393307050179968	5077	4.31	-1.33	0.46	0.46	7.56	-0.11
05224909-0008545	3221372600399707520	5271	3.05	-0.21	-0.53	-0.52	7.71	0.11
05232882+6904581	485426657021670784	7450	4.30	-0.97	2.33	2.36	9.82	0.34
05234159+0001547	3221399469715891712	5242	4.19	-0.20	-0.55	-0.55	7.68	-0.04
05234178+0140465	3222180191690519296	5500	3.58	-0.38	0.22	0.22	8.27	...
05240221+0037377	3221857420604615040	5970	3.77	-1.74	1.45	1.45	8.14	0.44

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
05240835-0847159	3014887683958579840	5258	3.58	-0.26	-0.41	-0.41	7.77	0.08
05244855+3052198	3447044445721668096	7217	3.95	-2.17	1.55	1.55	7.81	...
05250902-4636237	4798948177378743680	5121	4.65	-0.01	-0.38	-0.38	8.03	0.16
05251415-6236322	4757456177662951296	4512	4.75	-0.87	-0.11	-0.11	7.45	0.33
05254247-2935153	2906535455902590464	5742	3.47	-1.84	1.26	1.26	7.86	0.07
05255980-1225415	2985857656406840832	5099	2.93	-0.25	-0.65	-0.62	7.56	0.12
05261364-0409463	3210609210495286016	5107	4.05	-1.43	0.73	0.73	7.73	-0.07
05261736+0054216	3221894563481860352	4896	3.92	-1.49	0.77	0.77	7.72	-0.08
05263189+5101299	261986133108337024	6069	4.08	-0.47	0.33	0.33	8.29	0.49
05270704+0208344	3222306291931030912	4854	3.71	-1.60	0.62	0.62	7.45	-0.11
05271660-1148112	3009915249997569024	4455	4.59	-1.05	-0.25	-0.25	7.13	0.26
05272500-3754396	4821159308691479424	4630	4.67	-0.75	-0.50	-0.50	7.18	0.22
05284287-0020406	3220938052789255552	5227	3.94	-0.70	0.30	0.30	8.03	-0.05
05284445+0105281	3221936173125954432	4837	3.96	-0.42	0.12	0.12	8.13	0.54
05291238-3538496	4822053555242274688	5429	2.68	-2.48	0.88	0.90	6.86	0.32
05293906-0037377	3220726675974365184	5018	4.47	-0.41	-0.40	-0.40	7.63	0.12
05310644+1002437	3338225775622947584	5620	3.78	-0.43	0.24	0.24	8.23	0.43
05310938-0734569	3016409408052028416	4828	1.46	-2.18	-0.05	0.45	6.70	0.19
05311096+0119175	3221955960038003968	5342	3.83	-0.08	-0.58	-0.58	7.77	-0.06
05313358-5942455	4759644931651720064	4815	1.44	-1.94	-0.09	0.36	6.85	0.37
05314665-7729338	4623987049577991808	6026	3.44	-1.13	0.66	0.66	7.95	-0.14
05315984-0724275	3016418655117200896	5170	3.92	-0.08	-0.40	-0.40	7.96	-0.04
05322358+0426172	3236515250632113536	4888	4.15	-1.47	0.57	0.57	7.53	-0.10
05323333+5054220	215399069525282304	4884	4.74	-0.45	-0.15	-0.15	7.83	0.38
05323416-3555512	4821789049679265536	5138	2.86	-0.15	-0.85	-0.82	7.45	0.08
05330330+3425560	3449578029750593408	6383	1.64	-0.80	0.63	0.65	8.28	...
05331754-0208154	3216941882074480000	5459	3.97	-0.22	-0.54	-0.54	7.67	0.00
05332244-5030257	4793470921547465856	5084	1.77	-2.34	0.56	0.78	6.87	0.17
05333204-2332171	2963722876730308224	5283	4.49	-0.54	0.00	0.00	7.89	0.06
05341283-0120379	3217572555072525056	5289	4.22	-0.28	-0.41	-0.41	7.75	0.06
05343131+0352284	3224421859677408384	5252	2.34	-2.50	0.43	0.44	6.37	...
05344241-0015449	3220804015449200384	5681	4.16	-0.07	-0.50	-0.50	7.86	-0.11
05355964-3116059	2902351985957543552	4940	2.76	-0.31	-0.76	-0.73	7.39	0.20
05363390+0511260	3332736468116552192	5263	3.71	-0.88	0.16	0.16	7.71	-0.07
05365678-4350228	4802513236454812160	5365	3.61	-0.14	-0.44	-0.44	7.86	-0.01
05365967+0411503	3224519505758364160	5485	4.27	-0.07	-0.42	-0.42	7.94	-0.08
05370169-5105089	4793302318311314176	4989	4.22	-0.43	-0.48	-0.48	7.53	0.10
05374341+5648268	268483082894179072	4909	3.10	0.08	-0.38	-0.37	8.14	-0.15
05382360+7011135	485911644728122624	5734	4.25	-0.70	0.41	0.41	8.15	0.33
05384334-5147228	4793246488033004160	5264	2.43	-2.67	0.82	0.83	6.59	0.17
05391044-2345290	2963434353708776320	6224	4.01	-0.16	0.52	0.52	8.80	0.00
05404660-1040257	3010342513344338688	5134	4.23	-0.15	-0.28	-0.28	8.01	-0.04

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
05415000+1525054	3347851759405013248	5011	4.44	-0.02	-0.57	-0.57	7.84	-0.10
05423307-5913398	4759918400809516416	5114	2.10	-1.63	0.43	0.46	7.26	0.09
05431543+7808008	552468274714043392	4719	4.94	-0.97	-0.16	-0.16	7.30	0.39
05434309+5012096	214379311147693312	5149	4.68	-0.51	0.13	0.13	8.05	0.08
05434572-2151551	2964356642107544192	4741	4.79	-1.24	0.17	0.17	7.36	0.42
05434805-2538412	2914965720791328896	5286	2.64	-1.55	0.25	0.27	7.15	0.18
05440311-6050523	4758589400489342080	5217	3.80	0.00	-0.47	-0.47	7.97	-0.12
05440932-3820149	4808589176366959360	5200	2.53	-1.36	0.26	0.28	7.35	0.33
05450050-2105418	2965923995930380160	4635	4.72	-0.88	-0.05	-0.05	7.50	0.28
05455248-2556383	2914192523598690048	5299	2.32	-2.09	0.34	0.35	6.69	0.21
05463023+4210063	192794656646602880	4919	4.75	-0.77	0.12	0.12	7.78	0.14
05463758-4103031	4804867874965676032	4765	4.73	-1.17	0.46	0.46	7.72	0.15
05464200-1802448	2967658131925635968	...	...	...	...	...	...	...
05472677-5432402	4767980226222674944	4886	1.37	-1.88	-0.01	0.43	6.98	0.19
05483017-5835567	4765250138851402112	4953	3.31	-1.68	0.52	0.53	7.28	0.30
05483336-2434285	2915518908282121472	5061	4.27	-1.51	0.31	0.31	7.23	0.35
05483820+3148424	3445140602679798400	7458	3.84	-2.78	2.04	2.04	7.69	...
05505657-2008418	2966088402979538944	5137	2.20	-1.88	0.35	0.36	6.91	0.08
05511133-0653111	3018944989240573056	5504	2.68	-0.27	-0.03	0.00	8.16	0.03
05521578-3953184	4805034691496015104	4921	1.49	-2.26	0.29	0.71	6.88	-0.01
05530383-2007355	2966268035692065280	5477	3.66	-0.73	0.03	0.03	7.72	0.02
05531036-4113596	4804147870945271168	4577	2.01	-0.53	-0.71	-0.51	7.39	0.14
05542509+1632212	3349664785359713280	5340	4.57	-0.63	0.20	0.20	8.00	-0.11
05544693-8301197	4620849386990258560	4914	1.49	-2.08	-0.08	0.39	6.75	0.28
05545543+5131242	214916074682985856	4819	2.26	-1.89	-0.01	0.00	6.55	0.13
05583688-2438574	2914576528036091136	5057	3.98	-0.96	-0.27	-0.27	7.20	0.18
05583844-3434436	2889188186073231104	5069	3.70	-1.00	0.41	0.41	7.84	0.00
05584204+5040146	211594935389482240	5189	4.90	-0.61	-0.05	-0.05	7.77	0.20
05592533-7744016	4647752959052853632	5287	1.97	-2.40	-0.08	-0.02	6.01	0.30
05594737-2708140	2911019229961694208	4637	0.73	-2.34	-0.17	0.54	6.63	0.45
06000654-3034592	2891276807192892800	5263	4.32	-0.25	-0.25	-0.25	7.93	0.02
06000928+6830331	1105490157831460352	5811	3.94	-1.77	1.27	1.27	7.92	-0.04
06010912-2251504	2916542798424334208	4807	4.26	-0.23	-0.06	-0.06	8.14	0.15
06013941-3304567	2889974641827298048	4768	3.82	-1.49	0.78	0.78	7.72	-0.09
06023445-3332108	2889528175684527104	5632	3.20	-0.18	-0.27	-0.25	8.01	0.26
06032005-7531388	5261685578730080000	5558	3.47	-0.53	-0.30	-0.30	7.61	0.06
06032024-2059364	2917926946123381248	5226	2.60	-1.63	0.29	0.31	7.11	0.34
06035878-3445341	2886205760783047808	5151	4.75	-0.85	0.24	0.24	7.83	0.29
06040505-3922438	2882964602365617408	5209	4.58	-0.23	-0.09	-0.09	8.11	0.05
06043058-3232288	2889972447101620480	5122	2.68	-1.49	0.74	0.76	7.70	...
06050821-3625551	2885764135065967488	5598	4.25	-0.20	-0.20	-0.20	8.03	0.01
06050851+6114505	1005911306711125632	4621	4.82	-1.39	-0.04	-0.04	7.00	0.43

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
06050978+6654472	1105001321832556800	5391	4.49	-0.22	-0.19	-0.19	8.02	-0.02
06052881-4438188	5567973273001201152	5522	3.22	-1.54	0.24	0.25	7.15	0.29
06055284-3537284	2885916589224697088	5043	1.73	-2.33	0.59	0.84	6.93	0.09
06055999-6907423	5279730523050938624	5109	1.73	-2.03	0.02	0.30	6.70	0.10
06063114-1605358	2991490626275600640	5072	4.22	-1.34	0.65	0.65	7.73	-0.07
06063142-5032308	5549982410912756992	5087	4.80	-1.10	0.07	0.07	7.40	0.21
06074714-3724498	2884863016567274240	5692	3.70	-1.22	0.65	0.65	7.85	0.00
06085789-3536279	2885882774945629824	5621	4.31	-0.38	0.23	0.23	8.28	0.07
06090353-7122260	5278332292157596160	5033	1.68	-2.73	0.42	0.70	6.40	0.14
06120579-3152561	2895882146005313152	4958	4.59	-0.40	-0.17	-0.17	7.86	0.07
06134289-6937017	5279560687166096896	5038	1.86	-1.65	0.68	0.78	7.57	0.18
06135706-3555284	2885428298685730816	5172	4.50	-0.97	0.36	0.36	7.82	0.19
06155680-7459448	5261728773219036800	5118	2.12	-2.39	0.49	0.50	6.54	0.24
06171171-7328560	5265153816361777920	4806	2.28	-1.28	-0.94	-0.92	6.23	0.15
06181310-0348135	3116844057174980864	4307	4.59	-1.47	-0.64	-0.64	6.32	0.07
06183086-2506582	2912205186393737472	4948	4.44	-0.39	-0.05	-0.05	7.99	-0.02
06192867-8743048	5189368469885240832	5081	1.79	-1.87	0.52	0.70	7.26	0.26
06194462-2030436	2938430256702303360	4871	1.35	-2.74	0.17	0.70	6.39	-0.14
06200929-5719169	5495322423720756352	5056	3.72	-1.29	0.84	0.84	7.98	0.35
06220380-2155289	2937664962250734592	5126	3.45	-0.88	-0.47	-0.47	7.08	0.39
06234993-5946248	5482612241102802304	5426	4.54	-0.28	0.20	0.20	8.36	0.00
06244840+7752154	1140661709439350528	4623	4.62	-1.08	-0.11	-0.11	7.24	0.14
06250234-4659051	5553993768631973120	5311	3.27	-0.46	-0.95	-0.93	7.04	...
06290787-6709523	5283390938997970176	4766	1.16	-2.73	-0.14	0.53	6.23	0.21
06325088+6530326	1103660291306745856	4632	3.81	-1.92	1.03	1.03	7.54	-0.07
06325555-4214034	5569242345641089408	4838	4.52	-1.11	0.38	0.38	7.70	0.10
06332771-3519240	5581669477032806912	5412	2.71	-1.93	0.54	0.55	7.05	0.20
06345221-4425441	5556592090703647744	4705	4.32	-1.30	0.98	0.98	8.11	...
06363111-2255559	2924798167948814208	4984	4.68	-0.64	0.48	0.48	8.28	-0.03
06382886-8309319	5206227036859558272	5183	1.57	-2.50	0.06	0.47	6.40	0.29
06393860-3406395	5583340111934906112	4787	4.47	-0.84	-0.04	-0.04	7.55	0.47
06421665-5008385	5503130777344639488	5120	4.36	-0.28	-0.29	-0.29	7.87	0.08
06425079+7014409	1112486380380023040	6222	4.49	-1.72	1.47	1.47	8.18	-0.11
06451421-3217294	5583930313459131008	5075	2.11	-2.03	0.48	0.50	6.90	0.25
06451920-0857165	3098535676741247744	5304	4.13	-1.17	0.43	0.43	7.69	-0.01
06460710-4155202	5563430395897276032	5140	3.71	-0.70	-0.26	-0.26	7.48	0.23
06464646-4440364	5556009212103193472	5264	4.63	-0.10	-0.07	-0.07	8.26	-0.03
06484021+1625173	3358091992230790656	4618	2.59	-1.96	0.34	0.35	6.82	0.15
06484979-2428341	2922058189267952384	5124	3.41	-0.63	-0.03	-0.03	7.77	0.08
06510773+0943416	3158574272957723776	4743	4.72	-0.96	0.07	0.07	7.54	0.20
06523842+1513163	3354530639711957376	5732	4.11	-0.53	0.39	0.39	8.29	0.43
06525096+2440261	3381304160163213056	4699	1.47	-1.93	-0.19	0.25	6.76	0.43

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
06525451+1446083	3354323111187785216	5344	3.75	-0.16	-0.49	-0.49	7.78	-0.03
06533075+1226225	3351515542604966912	7500	4.53	0.07	1.02	1.02	9.52	...
06533083+6836050	1103319172123035136	4933	1.71	-2.21	0.19	0.50	6.71	0.44
06554143-4313578	5562195201959849984	4784	1.06	-2.28	-0.44	0.28	6.43	0.23
06560363+2846500	887636359876055424	5253	4.65	-0.08	-0.30	-0.30	8.05	-0.06
06570150-6751413	5280814817608368000	5093	2.08	-1.43	0.07	0.11	7.11	-0.02
06571276-5526234	5485259315346971136	5202	4.67	-0.55	0.08	0.08	7.96	0.21
06580901-8334199	5194228654877524096	5039	1.48	-1.97	-0.03	0.40	6.86	0.34
06585640+0850479	3157301205994883840	5497	2.96	-0.33	-0.34	-0.31	7.79	0.54
06593152-5853177	5480647173305937280	4829	1.23	-2.09	-0.20	0.40	6.74	0.34
06593924+2056439	3366133201801121536	5291	2.44	-2.57	0.89	0.91	6.77	0.43
07001955-3637535	5578346443656712960	5489	4.22	-0.56	0.50	0.50	8.38	-0.08
07003916+2701430	884148846432586240	5358	3.66	-0.61	-0.04	-0.04	7.78	-0.03
07004613+2933178	887873162895952768	5062	4.58	-0.29	-0.16	-0.16	7.98	-0.02
07012363+1813452	3364377384810729088	5313	2.47	-2.30	0.28	0.29	6.42	0.44
07013933-5842103	5480743208774977024	5156	1.66	-2.14	-0.01	0.34	6.63	0.15
07023862+0659243	3153768440772179584	5867	4.27	-0.30	-0.49	-0.49	7.64	-0.05
07030318+4006286	947804380629842816	5298	2.60	-1.59	0.01	0.03	6.87	0.42
07033238+2225136	3368024709696717824	4836	1.62	-2.01	-0.06	0.30	6.73	0.32
07035093+1955164	3365212055873231104	5787	3.86	-1.06	0.54	0.54	7.91	-0.13
07041471+1901123	3364898931280232448	4654	4.82	-1.22	0.13	0.13	7.34	0.36
07041738-1908113	2932674107172462592	5435	2.08	-0.64	-0.36	-0.27	7.52	0.18
07041880+0246488	3115642187883221632	7079	4.50	-1.48	2.19	2.20	9.16	0.00
07041957+2340564	3368538353422137344	6411	3.40	-0.93	0.88	0.89	8.39	0.30
07054097+1733350	3361464812868710144	5010	2.15	-1.43	-0.24	-0.21	6.79	0.27
07070364+2657035	883254423785454080	5165	2.56	-2.62	0.65	0.66	6.47	0.31
07073503+2356476	3368586663216905984	4783	4.79	-0.51	-0.19	-0.19	7.73	0.30
07081426-3557115	5566430245872289408	5980	3.42	-1.37	0.90	0.91	7.97	0.07
07083867-4621128	5510018805377253632	4704	2.34	-0.52	-0.70	-0.67	7.25	0.19
07085997-5424564	5491233099459990528	5367	1.94	-2.06	-0.05	0.04	6.41	0.33
07090577+2142312	3367308652748446464	4907	3.92	-1.58	0.60	0.60	7.44	-0.02
07093534+2210136	3367373077257509120	5914	3.97	-0.35	0.24	0.24	8.32	0.57
07093868-0419118	3107527762016884096	6302	3.59	-3.50	2.59	2.59	7.52	0.08
07101117-2219008	2928210850185413120	6828	3.88	-2.58	3.29	3.30	9.15	0.24
07102845+1245411	3161108024483929600	5088	1.77	-2.65	0.33	0.53	6.31	0.36
07103372-0244311	3108335765621350656	5890	3.97	-0.14	-0.41	-0.41	7.88	-0.09
07104970+0826444	3154409902728232320	4856	1.66	-1.68	-0.53	-0.18	6.57	0.54
07110190-6301262	5285981079149837184	5330	4.04	-1.33	0.38	0.38	7.48	0.30
07113988+8541053	1150345383223043712	5407	3.86	-1.57	0.88	0.88	7.75	0.08
07121704+1402591	3167279926849037568	4687	0.88	-2.22	-0.38	0.34	6.55	0.21
07122036+4221574	949584631690298368	5030	4.79	-0.05	-0.35	-0.35	8.03	-0.02
07122182-8422429	5193956796331371264	5431	4.74	-0.39	0.11	0.11	8.15	0.03

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
07122917+2231366	3367505087372386944	4909	4.11	-0.29	-0.19	-0.19	7.95	0.49
07122989-0700106	3052191643892060672	6739	0.95	-1.26	2.88	2.92	10.09	...
07123398-4814049	5508686643961355648	4773	1.56	-2.91	-0.16	0.21	5.73	0.35
07123461+3153463	890055835212749696	4766	4.83	-0.96	0.07	0.07	7.54	0.01
07130783-7052481	5267185649427578496	5074	4.67	-0.36	-0.12	-0.12	7.95	0.03
07150401+2714015	883489998448405504	5504	4.49	-0.40	-0.04	-0.04	7.99	0.12
07151852-5252051	5491893184393739776	5019	1.53	-2.92	0.40	0.78	6.29	0.20
07152806-4111161	5561098267315218048	4799	3.94	-1.25	0.42	0.42	7.60	-0.14
07160059+5240188	986603229693072128	5704	3.75	-1.54	0.67	0.67	7.56	0.11
07170438+2402438	869715076257527808	6150	3.24	-0.30	0.01	0.03	8.15	0.24
07174600+1259027	3166159975473025280	5135	3.83	-1.30	0.36	0.36	7.50	0.04
07174929-0924096	3048017378051885056	5710	4.27	-0.04	0.25	0.25	8.64	-0.09
07175677-2704124	5616006675420673664	5350	4.41	-1.07	0.38	0.38	7.74	-0.04
07181152+4406479	973981901357263104	5077	3.93	-1.24	0.55	0.55	7.74	-0.08
07194881-5748087	5485933071160480768	4984	4.25	-0.30	-0.10	-0.10	8.04	-0.04
07203081-6240451	5291814602512817024	4907	1.40	-2.05	-0.24	0.27	6.65	0.24
07204786-7623393	5214066868299703040	5411	4.72	-0.73	0.23	0.23	7.93	0.18
07213106+2755248	872994571549210240	5632	3.47	-1.89	1.34	1.34	7.88	0.38
07220367+0253575	3136142616543571456	4737	1.09	-2.14	-0.41	0.26	6.54	0.46
07224055+3618087	897278351003895424	5068	4.66	-0.73	0.33	0.33	8.04	0.11
07224582-2959375	5605629995767584000	5638	4.30	-0.82	0.52	0.52	8.13	-0.06
07233679+1412112	3166723543901552000	4773	2.44	-0.21	-0.89	-0.86	7.36	-0.11
07234039-2959296	5605624738733670912	5685	3.54	-0.14	0.20	0.20	8.48	0.06
07234262+1516310	3167138884419576064	5223	3.57	-0.14	-0.52	-0.52	7.77	-0.03
07242428+5822232	989627947524580864	4716	4.71	-1.33	0.29	0.29	7.39	0.33
07254156+4948144	977051149410569344	5219	4.19	-0.09	-0.59	-0.59	7.75	-0.07
07254769-3453506	5590014289255060480	5651	3.68	-0.39	-0.09	-0.09	7.95	-0.20
07260648-4637077	5510340717467331456	4831	4.06	-0.11	-0.68	-0.68	7.65	-0.07
07270798+4352580	973215713552094848	4980	4.61	-0.90	0.38	0.38	7.91	0.06
07273288+3819555	899749713837935872	4795	4.38	-1.41	0.34	0.34	7.36	0.34
07280531+1637140	3169561074176213376	5309	4.75	-0.83	0.18	0.18	7.78	0.30
07281913-8333342	5194416392190823040	5269	2.42	-1.77	0.49	0.51	7.17	0.06
07282428-3705347	5586496638018390784	5356	3.12	-0.21	-0.03	-0.02	8.20	0.17
07284694+8149439	1142689281896442880	5012	1.69	-2.69	0.55	0.80	6.53	0.42
07295359-6910360	5267963068571164928	5163	4.71	-0.30	-0.13	-0.13	8.01	0.22
07304303+4111480	900640730573598976	4633	4.35	-1.74	0.66	0.66	7.36	-0.06
07310602-2742595	5611975414810555264	5391	4.60	-0.13	0.20	0.20	8.50	0.02
07311836-6659351	5269135942537559680	4643	4.78	-0.75	-0.19	-0.19	7.49	0.30
07314455+5553592	988736827710024704	4816	4.71	-0.53	-0.10	-0.10	7.81	0.32
07314605-3324217	5591704921522389888	6884	4.17	-1.63	0.35	0.35	7.15	...
07321280+1523588	3168444240942341248	5114	4.41	-1.05	0.37	0.37	7.75	-0.02
07321479-1300309	3033439198205025024	5234	3.11	-3.39	-0.17	-0.17	4.87	...

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
07325519+3655267	898637038134266752	4770	1.23	-2.28	-0.30	0.35	6.50	0.32
07331792+0531033	3141404295078246400	4877	4.72	-0.87	0.19	0.19	7.75	0.07
07333190+5310203	983909666723291392	6890	4.16	-3.87	2.10	2.10	6.67	...
07334024+4425362	973487288627865728	5119	4.76	-0.65	0.07	0.07	7.85	-0.02
07345045+0736494	3142272222070528384	4516	4.16	-0.68	-1.03	-1.03	6.73	-0.20
07350484-0004500	3086417752932494848	4832	4.52	-0.80	0.35	0.35	7.97	0.11
07351435+2626331	872041539782121984	4754	3.72	-1.85	0.77	0.77	7.35	0.22
07351699-4815064	5506540186806281728	5212	4.08	-1.20	0.38	0.38	7.61	-0.01
07353628+1938556	672591122640513280	5387	4.61	-0.54	0.17	0.17	8.06	0.06
07354551+0455028	3138308624388237568	5491	3.54	-1.10	0.17	0.17	7.50	-0.08
07354757-5036104	5493916801186715648	5506	4.07	-0.37	-0.26	-0.26	7.80	-0.08
07363720+1126504	3162146822454143360	4853	3.64	-1.36	0.61	0.61	7.68	-0.13
07363729+4034177	924375132168707200	4769	4.66	-0.90	0.15	0.15	7.68	-0.03
07364486+4508331	926998601271917184	5684	3.43	-0.80	0.28	0.28	7.91	0.42
07365679+5950385	1086214756921278976	4516	4.49	-0.48	-1.03	-1.03	6.93	-0.15
07374300-5630568	5487737374038584704	5116	1.85	-2.96	0.82	0.93	6.41	0.44
07380041-2129196	5619082589253324544	5200	2.40	-0.44	-0.88	-0.85	7.14	0.24
07384500-0331557	3057721981216813568	5329	2.03	-1.82	0.18	0.23	6.84	0.19
07393047-1530275	3029020260970100736	5120	2.86	-1.06	0.36	0.38	7.75	-0.06
07395820+1311537	3164103029736387200	5051	2.10	-1.73	-0.07	-0.04	6.65	0.36
07400327-0740587	3042138568557247360	5175	1.57	-2.39	0.04	0.47	6.51	0.31
07403555+5352561	985231550281510144	4686	3.88	-0.51	-0.40	-0.40	7.53	0.52
07404482+1243437	3163865500863822592	4976	4.26	-0.27	-0.16	-0.16	8.00	0.51
07410359-6714551	5274884459907753344	4756	1.03	-1.64	-0.43	0.13	6.92	-0.19
07410851-5943543	5292748779377543168	5023	4.48	-0.52	-0.32	-0.32	7.59	0.18
07412077-2900201	5599777230966529024	5400	1.97	-2.29	0.23	0.31	6.45	0.22
07414196-0741080	3042148704679838336	5317	4.69	-0.26	-0.07	-0.07	8.11	0.15
07435834+1341353	3164056506649463040	5531	3.64	-1.36	0.63	0.63	7.69	-0.07
07440179+0312226	3136905750633082624	4991	3.72	-1.57	0.55	0.55	7.41	0.22
07441635+5322545	984534979601381120	4941	4.69	-0.57	0.19	0.19	8.05	0.00
07443402+0742591	3145150125036773760	6196	3.56	-0.58	0.23	0.23	8.08	0.17
07443970-4425135	5532006972050819584	5202	2.18	-2.65	0.80	0.81	6.59	0.04
07445367-4653249	5530553525058225152	5350	3.98	-0.14	-0.54	-0.54	7.76	-0.02
07450351+0956148	3148979071201226880	4702	1.06	-2.64	-0.28	0.45	6.25	0.34
07450424-7231255	5263155252116820608	7552	4.62	-0.81	0.90	0.90	8.52	...
07451488+1000107	3149076244837702784	5644	4.14	-0.24	-0.36	-0.36	7.83	-0.01
07452477+2524147	868026810512553856	5054	4.72	-0.62	0.14	0.14	7.95	0.05
07455398+0103107	3086833647505226752	5802	3.65	-0.99	0.47	0.47	7.91	0.12
07461952+3903325	920303430156012160	4781	0.97	-2.67	-0.11	0.61	6.37	0.47
07464924-4313456	5532490211705643904	5601	3.38	-0.13	0.11	0.11	8.41	-0.06
07480156-4924040	5518045893097566976	4955	1.59	-2.73	0.15	0.51	6.21	0.19
07485521+5623334	1082018707015827584	5353	3.67	-0.78	0.20	0.20	7.85	-0.12

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
07494258+6938239	1098142705736502528	4957	3.76	-0.73	-0.38	-0.38	7.32	0.30
07503801+1119098	3150778696857500928	5164	4.77	-0.54	0.06	0.06	7.95	0.00
07504673+0558247	3143849888115383040	5027	2.00	-1.96	0.24	0.30	6.77	0.35
07533988+4933361	934072756004889216	5378	3.01	-1.94	0.47	0.48	6.97	0.10
07545950+6639532	1095319709633456000	5186	4.67	-1.05	0.26	0.26	7.64	0.29
07551255+1944081	670305998176686720	4615	1.08	-2.83	-0.12	0.60	6.20	0.44
07552395+3520063	906645575890268416	4701	4.67	-0.93	0.09	0.09	7.59	0.02
07555507+8148305	1148451100783017984	4638	4.72	-0.89	-0.42	-0.42	7.13	0.45
07575895+4035155	922132399029177088	4984	4.57	-0.16	-0.77	-0.77	7.51	0.07
07580568+3504110	906456700407472512	5122	4.72	-0.23	-0.04	-0.04	8.16	0.09
07584532+4211214	922545677962459904	5289	3.43	-1.46	0.46	0.46	7.42	0.18
07590580+4748300	933111228791082240	5079	4.05	-0.29	0.09	0.09	8.23	0.45
08005431+3135329	878032675562889728	4469	4.91	-1.19	0.74	0.74	7.97	...
08005634+1633254	667243544758539136	5337	4.74	-0.17	-0.19	-0.19	8.07	-0.03
08011676+6358383	1094412028423846144	4892	4.62	-1.01	0.10	0.10	7.52	0.39
08021251-2821568	5597762543400727680	8401	4.07	-0.13	0.00	0.00	0.00	...
08022771-4804247	5517895294366243968	5286	3.93	-0.04	-0.54	-0.54	7.85	-0.03
08024574-4803573	5517708957205335168	5200	2.74	-0.18	-0.30	-0.27	7.98	0.03
08042788-6440110	5275614368128678528	5288	2.29	-2.21	0.63	0.64	6.86	0.05
08045600+3310059	905235555306335104	4959	4.88	-0.65	0.14	0.14	7.92	0.09
08050775+2604105	681971846610387712	5980	3.51	-0.36	0.07	0.07	8.14	0.34
08052894-6502132	5275590007074529152	5149	1.59	-1.98	-0.04	0.36	6.81	0.33
08053267-6119242	5289953163686735232	5443	4.67	-0.40	0.24	0.24	8.27	-0.03
08074491-5257227	5512588600272046848	5403	4.48	-0.09	0.02	0.02	8.35	-0.06
08080715+5915114	1083546379639153664	4949	4.79	-0.13	-0.40	-0.40	7.90	-0.04
08085268-6128294	5289751265864064128	5309	2.59	-1.91	0.39	0.40	6.93	0.22
08090031+2850085	876519232166668800	4979	1.60	-2.67	0.34	0.68	6.45	0.46
08092156+2521288	681134774663802496	5135	4.65	-0.34	-0.21	-0.21	7.88	0.08
08100860-7523572	5213699150380190720	4943	1.21	-2.40	-0.27	0.41	6.44	0.21
08102898+4020333	909546843477733504	5188	3.64	-1.17	0.10	0.10	7.36	0.02
08111719+4456352	929054103899434752	5057	4.84	-0.41	0.09	0.09	8.11	0.14
08125962-7004235	5270057397705227904	4973	4.21	-0.01	-0.39	-0.39	8.02	-0.11
08130864+3925564	909255575975553920	4904	1.33	-2.48	-0.43	0.17	6.13	0.43
08135674+5113349	935284722760688384	5834	3.66	-0.91	0.22	0.22	7.74	-0.08
08140229+3940332	909264917528317952	4907	4.78	-0.56	0.01	0.01	7.88	0.15
08152203+3827587	908032124475412224	5500	4.18	-0.21	-0.23	-0.23	7.99	-0.02
08153796+6531162	1092014470303207552	4823	4.69	-0.89	0.19	0.19	7.73	0.00
08162824-4611151	5519745360123251200	5467	2.39	-0.18	-0.01	0.03	8.28	0.56
08173327-2728418	5693425380770623616	5168	3.39	-1.68	0.84	0.84	7.60	0.25
08182058+5923087	1083715257753356800	5153	3.56	-1.16	0.30	0.30	7.57	0.09
08202927-2458369	5696053561463700992	5187	4.58	-1.26	0.50	0.50	7.67	0.12
08204593-7457097	5219742375524510720	5647	3.78	-1.23	0.53	0.53	7.72	-0.01

(continued)

Table 3 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
08225420+6259266	1090362836337748864	4674	0.80	-2.50	-0.19	0.54	6.46	0.46
08242044-1026147	5751499802540091776	4605	4.34	-0.18	-0.62	-0.62	7.64	0.07
08244155-6859542	5270209581283002240	5499	3.60	-0.30	-0.28	-0.28	7.86	0.00
08255445+7726501	1137625614237615232	5276	4.72	-0.52	0.09	0.09	8.00	0.06
08282505-2119200	5706111756390126080	5277	4.23	-1.23	0.67	0.67	7.86	0.10
08284828-2858468	5644860540592289536	6079	4.38	-1.71	1.15	1.15	7.87	-0.11
08295142-2428117	5695713503130206848	5063	2.40	-0.33	-0.80	-0.77	7.32	0.17
08295611-1354544	5722897519371974272	5161	4.64	-0.25	-0.09	-0.09	8.08	0.04
08302532-6949046	5221888519143226240	4937	4.54	-0.46	0.02	0.02	7.98	0.26
08312114-2126535	5703185367534835584	5188	2.31	-0.52	-0.90	-0.87	7.03	0.26
08315869+6949533	1121420775645432320	5526	4.42	-0.23	-0.15	-0.15	8.05	0.04
08322899-2137273	5703121870736546304	4887	2.22	-1.74	0.37	0.39	7.08	0.14
08331960-1350331	5722870096004958208	5693	3.33	-1.99	1.19	1.19	7.63	-0.14
08343393+7518493	1125113279289236096	5623	3.68	-0.37	-0.07	-0.07	7.99	0.49
08350584+4839306	1026860572337001088	5012	1.50	-2.28	-0.25	0.25	6.39	0.47
08355055-2033433	5703594458875614848	4506	4.02	-1.42	-0.07	-0.07	6.95	0.21
08355851-0839549	5753641990492978816	5098	1.68	-2.05	-0.25	0.08	6.46	0.24
08360617-0450149	3065446698936865152	4897	4.64	-0.78	0.02	0.02	7.67	0.55
08364858+7742308	1137832945195154560	5088	1.54	-2.58	0.83	1.14	7.00	0.56
08370406+7830159	1138150772775117312	4988	1.70	-2.55	0.50	0.77	6.64	0.31
08400533-4428341	5522379549464634752	5299	2.71	-0.50	-0.84	-0.81	7.12	0.20
08401347+4216411	913518485634602112	4901	4.73	-1.32	0.43	0.43	7.53	0.16
08413166-0629117	5754432023955507712	5578	3.56	-1.11	0.21	0.21	7.53	0.04
08422928-0849161	5750516216373911680	4969	4.69	-1.74	0.10	0.10	6.79	0.50
08430958+6038165	1041278571391227392	4700	4.46	-1.79	0.60	0.60	7.24	-0.02
08433739+6717034	1093203940022382720	4531	4.83	-0.59	-0.48	-0.48	7.36	0.16
08434698-1812314	5705872333433002880	5203	4.36	-0.58	0.44	0.44	8.29	0.28
08441851+0346257	581348807340055424	4581	4.46	-0.55	-0.93	-0.93	6.96	-0.05
08443695-7241450	...	4821	4.43	-0.70	-0.05	-0.05	7.69	0.35
08444676-2845157	5642803457417047552	5316	3.39	-0.21	-0.80	-0.80	7.42	-0.01
08445228-7438443	5216771215930182912	5489	4.06	-1.00	0.46	0.46	7.89	-0.06
08454426-2141380	5702387126388268160	5002	1.96	-1.68	0.30	0.38	7.13	0.32
08460663-0426024	5761503056249343360	5559	3.30	-0.14	-0.35	-0.33	7.97	-0.07
08472137+5830138	1040480914362286592	5034	1.21	-2.23	-0.19	0.45	6.65	0.23
08473213+0548147	582973163970364416	5177	2.26	-2.02	0.51	0.52	6.93	0.51
08490347-6323398	5297691668265349120	6269	3.14	-0.87	1.10	1.12	8.68	-0.03
08490462-6853235	5223489373715006976	5298	4.60	-0.30	0.08	0.08	8.21	0.01
08494240-3836003	5621994959343177856	5041	2.37	-0.30	-0.52	-0.49	7.64	0.12
08501165+4242063	913730107265419136	4833	4.81	-0.30	-0.45	-0.45	7.69	0.14
08511780-2736072	5648942030830217344	5497	3.63	-0.75	0.16	0.16	7.84	0.02
08514213+1250467	608133907024045952	5237	4.10	-0.23	0.26	0.26	8.46	0.46
08515469+5402598	1029765967389921408	5598	4.60	-0.32	-0.08	-0.08	8.03	-0.06

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
08523133-0804579	5750792365590211328	5060	4.72	-1.30	0.55	0.55	7.68	0.20
08524186+6924318	1118241228535948672	5388	4.57	-0.01	-0.50	-0.50	7.92	-0.02
08525722+6423125	1044196095432573952	5274	4.01	-0.68	0.09	0.09	7.84	0.22
08533398+1644112	611494731817426560	4883	4.18	-1.34	0.64	0.64	7.73	-0.02
08543649-4744205	5328756032854574592	6680	1.12	-0.31	1.83	1.83	9.95	...
08544986-1159089	5736694942894396672	5382	3.16	-1.43	0.35	0.36	7.35	-0.09
08554225-6955045	5222449162695490432	5190	1.46	-2.28	0.05	0.54	6.70	0.20
08565578-7603590	5215675105917524608	4614	3.18	-0.43	-0.59	-0.57	7.43	0.19
08571123+0040261	576743880843785088	5069	4.14	-0.34	0.17	0.17	8.26	0.47
08571600-6556117	5296305287178801280	5297	2.27	-2.45	0.56	0.57	6.54	0.00
09002061-2220490	5654811563195280512	5599	3.80	-1.06	0.85	0.85	8.22	-0.11
09002174-3342353	5627698985144472448	5822	3.55	-0.74	0.25	0.25	7.94	-0.14
09012132-7055369	5222157448519411584	5339	4.69	-0.76	0.25	0.25	7.92	0.13
09023125-0810363	5755853112670730112	4985	4.71	-0.20	-0.12	-0.12	8.11	0.14
09030506-2047415	5656156368995636608	4995	1.74	-2.07	0.42	0.66	7.03	0.13
09030861-0427115	5759379998080221824	5639	3.51	-0.98	0.09	0.09	7.54	0.01
09040262-0523492	5759068836288541696	4842	1.93	-1.50	0.11	0.21	7.14	0.33
09043992+0733498	584226980887837824	5064	1.63	-2.55	-0.47	-0.11	5.77	0.52
09050894-2050426	5656143484093610368	4900	2.54	-0.45	-0.72	-0.69	7.29	0.33
09065688+5836407	1036942720302654080	5298	4.32	-1.09	0.22	0.22	7.56	-0.07
09073395-0340147	5759902820154063744	4949	4.22	0.03	-0.42	-0.42	8.04	-0.06
09090697-0324211	5759936900718820864	5042	1.61	-2.32	0.62	0.93	7.04	0.22
09093944-2006527	5679552155368264704	5409	4.67	-0.49	0.24	0.24	8.19	0.03
09102690+6033156	1039441978952648064	4671	2.10	-1.05	-0.18	-0.12	7.26	...
09103058+6419220	1043675820274039040	4848	1.55	-2.25	0.00	0.45	6.63	0.46
09104309-1444185	5731383034718059520	4887	2.25	-3.41	0.08	0.09	5.11	-0.02
09110582-2014595	5679493090978018304	5243	4.32	-0.14	0.12	0.12	8.41	-0.02
09110758+0217287	3843821216808928512	5281	4.60	-0.44	0.07	0.07	8.07	0.14
09114163+1017524	591768294919763072	4925	1.92	-1.59	0.06	0.18	7.03	0.28
09122631-0037340	3842047846288227712	5085	4.22	-0.02	0.04	0.04	8.46	-0.06
09123863+6218061	1040178033268005504	5497	4.81	-0.63	0.12	0.12	7.92	0.34
09131573-1716172	5682721055254568576	4949	1.56	-2.52	0.01	0.44	6.35	0.22
09152673-0018170	3842238950857112064	4841	2.65	-0.38	-0.95	-0.92	7.13	0.15
09155397+1212314	593696288558989312	5776	3.50	-1.25	0.72	0.72	7.90	0.36
09161100+0140496	3845027557158758144	4507	4.22	-1.25	-0.87	-0.87	6.30	0.50
09164357-0512382	5758526021141799552	4796	1.14	-2.20	-0.41	0.27	6.50	0.20
09171078-6147067	5298830659236242688	5057	1.83	-2.37	0.63	0.80	6.86	-0.02
09172903-1021252	5742681753643854464	4593	4.73	-0.54	-0.28	-0.28	7.61	0.14
09180855-0852126	5743138252832504576	5099	2.20	-1.99	0.25	0.26	6.69	0.21
09184848+0713360	586821454667385344	5106	1.87	-2.07	-0.13	0.02	6.38	0.39
09185431+1211488	593613206711676800	4746	4.73	-0.65	-0.13	-0.13	7.65	0.33
09201726-0554052	5746372328846303360	4736	4.58	-1.00	0.46	0.46	7.89	0.03

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
09205040+1820344	632540488180370176	5319	3.95	-1.09	0.24	0.24	7.58	-0.05
09214717+6219538	1040038326571016704	4929	1.60	-1.90	0.14	0.46	6.99	0.47
09220002+0957599	592248296169483264	4635	3.78	-1.70	0.63	0.63	7.36	-0.04
09221426+5824580	1038229698662764160	5305	2.61	-1.96	0.36	0.37	6.84	0.22
09221563-7701423	5203340376458000128	5110	2.11	-1.81	0.90	0.93	7.55	0.11
09222115-4317486	5424356193758211456	5713	3.73	-0.04	-0.44	-0.44	7.95	0.04
09230164+5819465	1026218874158310272	4471	4.23	-1.24	-0.35	-0.35	6.84	-0.08
09270301+4204494	814375831397158144	4950	1.92	-1.92	0.13	0.25	6.76	0.42
09270844+1544438	630694854833847168	4983	1.71	-2.32	0.30	0.61	6.73	0.50
09282183-3930462	5429709754532474880	5544	2.47	-0.55	0.36	0.39	8.27	...
09285510+1543302	619055111209080832	5414	4.40	-0.22	0.06	0.06	8.27	0.01
09290292+3549540	798505274404072832	5512	3.73	-0.15	-0.51	-0.51	7.78	-0.09
09291542-1847544	5678392273680123520	5542	3.55	-1.01	0.63	0.63	8.05	-0.06
09301030+0243320	3844656021013252992	4844	1.26	-2.49	0.15	0.72	6.66	0.46
09304755-3932097	5426696130598924416	5167	4.53	-0.47	0.19	0.19	8.16	0.41
09304964+8016095	1144494542550685824	4752	4.53	-0.97	0.21	0.21	7.66	-0.04
09313142+7905121	1132002131953311232	5111	4.76	-0.75	0.20	0.20	7.87	0.44
09315651+2335316	644413044801144064	4989	4.77	-0.86	0.20	0.20	7.77	0.13
09325648+1823093	633101995024420480	5120	1.93	-2.03	-0.30	-0.19	6.21	0.46
09341289-8700397	5189077198087438208	5200	4.07	-1.19	0.51	0.51	7.75	0.02
09343649+1036027	589530578303563648	5261	2.65	-2.25	0.55	0.56	6.75	0.42
09344298+0353574	3851012229012923264	4653	0.86	-2.29	-0.48	0.27	6.41	0.53
09345116+1214576	614001725703023488	4718	4.15	-0.68	-0.17	-0.17	7.58	0.50
09372216+0925058	588581463545772928	5285	3.33	-0.79	0.06	0.06	7.70	0.37
09375748+2559307	645906319030740864	4835	4.54	-0.93	0.17	0.17	7.67	0.18
09382460+4205266	813812915803635712	4771	2.47	-0.69	0.23	0.26	8.00	-0.13
09383941+1227080	614063912534411136	5129	2.51	-1.37	0.24	0.26	7.33	0.34
09384661+7833575	1131785214629423488	5189	2.33	-2.19	0.45	0.46	6.70	0.41
09391251+3445386	797731523158972416	4819	2.46	-0.33	-0.72	-0.69	7.42	0.07
09403979+2921557	696431047286005632	5386	4.50	-0.35	-0.17	-0.17	7.92	0.05
09455700+2135550	640001361769756032	4830	4.55	-0.97	0.19	0.19	7.65	0.15
09472261+3354159	794484841418902912	5261	4.25	-0.19	-0.48	-0.48	7.77	-0.03
09473545-2638039	5658256784099611008	6163	4.16	-0.46	0.08	0.08	8.06	-0.04
09474496-7045530	5242578991517893120	5064	1.84	-2.18	0.51	0.68	6.94	-0.20
09485248+1837465	627201117981349888	5121	2.13	-1.99	0.00	0.02	6.46	0.33
09485477-3811139	5432401118477539456	6795	3.47	-0.34	1.13	1.13	9.22	0.26
09491888+3201060	793274382192849664	4688	0.87	-2.29	-0.26	0.47	6.61	0.41
09501353-7925417	5202088268933375232	4884	1.11	-2.39	-0.25	0.45	6.49	0.23
09502173+3716070	79995336557763712	5092	3.07	-0.44	-0.55	-0.54	7.45	0.02
09502215-6930058	5243501550494934400	5400	4.08	0.18	-0.59	-0.59	8.02	-0.06
09513068-3848520	5432133353036744448	5047	4.59	-1.09	0.57	0.57	7.91	-0.12
09513210+3330203	793674978087183616	4870	4.68	-0.98	0.27	0.27	7.72	0.24

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
09532759-2717101	5657259969431486336	4752	4.12	-0.62	-0.20	-0.20	7.61	0.21
09535089+3329284	794978139884594560	5138	1.54	-2.10	0.03	0.46	6.80	0.35
09541478+2735210	647086477259746176	5134	4.09	-1.31	0.55	0.55	7.67	-0.11
09545564+6756128	1069803755602231168	4799	1.16	-1.91	-0.33	0.26	6.78	0.50
09553934+4319179	808168980883073792	5705	3.91	-1.58	0.92	0.92	7.78	-0.02
09555639-2403072	5660496214405409152	4991	2.01	-1.99	0.80	0.86	7.30	0.25
09560894-5924282	5257538328273646336	5382	3.04	-0.48	0.00	0.01	7.96	0.11
09574469+1400136	615228711960558464	4846	4.63	-0.89	0.15	0.15	7.69	0.16
09580008-4318227	5418253457547492096	5252	3.20	-1.54	0.76	0.77	7.66	0.07
09580109+2933087	743582087319504640	4937	4.61	-0.57	0.03	0.03	7.89	0.04
09593411+3708378	796772718958610304	4526	4.29	-1.55	0.40	0.40	7.29	-0.15
09594843+7246373	1125921282896321792	5390	2.14	-1.64	0.00	0.02	6.81	0.43
10003325-2537597	5658983939239396352	5185	4.54	-0.78	0.24	0.24	7.89	0.15
10020621-1554291	5673966327061493760	4695	4.66	-1.61	0.65	0.65	7.48	...
10030615+7054115	1071492949060164992	5078	1.53	-2.06	-0.10	0.35	6.72	0.34
10033379-2329108	5665883610926876672	4981	4.52	-0.72	0.28	0.28	7.99	0.08
10045623-4228179	5418445670219076224	5373	1.90	-1.80	0.27	0.40	7.03	0.04
10052247+3945408	803621576887555840	4927	1.57	-2.25	0.08	0.51	6.69	0.40
10053264-1827501	5672581221584085504	4992	4.61	-1.43	0.79	0.79	7.78	0.16
10063882+2403476	630450488374469120	4816	1.28	-2.87	-0.41	0.21	5.76	0.42
10075999-2736413	5465659970825328896	...	...	...	...	...	...	...
10085157-3236041	5459310600414841856	4889	3.53	-0.29	-0.35	-0.35	7.79	-0.13
10100365+2227088	629233049829242368	4670	4.75	-0.73	-0.05	-0.05	7.65	0.33
10111521-6620282	5245373292941453952	5533	4.19	0.00	-0.48	-0.48	7.95	-0.09
10115056-4309343	5415268253418659200	5533	3.72	0.08	-0.36	-0.36	8.15	-0.08
10115917+5502205	852773418843119616	4808	4.75	-0.80	0.14	0.14	7.77	0.06
10121964-3221347	5459373341297312384	4640	0.88	-2.87	-0.31	0.43	5.99	0.10
10124027-2249482	5666123373181152000	4693	4.56	-0.80	-0.40	-0.40	7.23	0.25
10124666+4624575	810408381126766592	5069	2.15	-2.16	0.28	0.29	6.56	0.31
10143521+2324515	725459455633859840	4830	1.98	-1.49	-0.17	-0.08	6.86	...
10151784+5551061	853205526912187264	4815	4.78	-0.45	-0.14	-0.14	7.84	0.15
10152469-1057352	3767574556484311424	4624	0.84	-2.42	-0.11	0.59	6.60	0.12
10152705+6456284	1053650967717923072	4944	4.80	-0.19	-0.26	-0.26	7.98	-0.01
10160573+6533551	1065697491989952896	5462	2.95	-0.92	0.45	0.47	7.98	0.56
10171294+4654224	810350480671638784	5152	4.79	-0.53	0.19	0.19	8.09	0.00
10193367+7257464	1077961238527864704	5033	4.57	-0.70	0.28	0.28	8.01	-0.05
10203763+7221398	1077708213414112128	5360	3.90	-0.54	0.17	0.17	8.07	-0.05
10211155+4557314	809444964126986240	5168	4.38	-0.43	0.31	0.31	8.31	0.27
10213675+7058455	1076692848785487104	5346	4.23	-0.56	0.44	0.44	8.31	0.04
10221281-4123416	5416543996142159488	5119	1.71	-2.30	0.08	0.41	6.53	0.17
10244576-7355423	5229049672736749184	5171	4.70	-0.08	-0.02	-0.02	8.34	-0.04
10250250+7723238	1128041244394048000	5254	4.61	-0.43	-0.07	-0.07	7.93	0.10

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
10263327-2231158	5475397761196528896	5025	2.12	-1.48	0.07	0.10	7.06	0.30
10280894+4658364	833602269677094272	4569	0.61	-2.91	-0.12	0.61	6.13	0.39
10281330-2946530	5461386169127203200	4675	2.30	-0.04	-0.92	-0.89	7.50	-0.17
10295444-0801026	3774466329726812672	5158	1.61	-2.69	0.18	0.53	6.27	-0.14
10340832-7354406	5229004382300835840	5196	4.57	-0.02	0.18	0.18	8.60	-0.10
10350987-1416284	3750801231724757760	5253	2.21	-2.48	0.76	0.77	6.72	0.10
10352666+4804049	834056058741414400	5404	3.20	-1.51	0.57	0.58	7.50	0.58
10363889-1917043	3554709655102839552	5700	3.75	-1.46	0.73	0.73	7.70	0.02
10371075-1056303	3760861312146553216	4941	3.94	-0.85	-0.26	-0.26	7.32	0.15
10375744+4851237	834186007272278016	4842	4.72	-0.80	0.05	0.05	7.68	0.16
10382409-5248250	5354554767533822336	4911	1.41	-2.35	0.25	0.72	6.80	0.14
10383538+4953297	835062146240700160	4931	1.60	-2.73	0.12	0.47	6.17	0.37
10385482-0518037	3776786466765131520	4875	1.47	-2.25	0.05	0.53	6.71	0.16
10391495+7348283	1078279478424242432	5280	4.69	-1.03	0.31	0.31	7.70	0.36
10391566+7340387	1078266108189870592	5347	4.54	-0.54	0.06	0.06	7.94	0.16
10394895+3459288	750368410525129728	4728	1.33	-2.55	-0.35	0.25	6.13	0.49
10420484+0246381	3857349504797962496	4955	1.65	-2.12	0.05	0.40	6.70	0.29
10425611-6355510	5239913019452422784	5573	2.83	-0.31	0.34	0.37	8.49	0.40
10430163-0230226	3802519784793984000	5035	4.68	-0.33	-0.05	-0.05	8.06	0.04
10430365-0643033	3776307354572694272	5363	3.39	-1.19	0.56	0.56	7.80	0.33
10432543+7515589	1126646406518426752	4622	4.57	-0.50	-0.60	-0.60	7.33	0.04
10440416+7616213	1128438924005715456	5257	4.79	-0.65	0.17	0.17	7.95	0.03
10440597-0853008	3762337131628855680	4953	4.76	-0.61	-0.38	-0.38	7.44	0.25
10453280+0345108	3857542022411847040	4812	1.33	-2.31	-0.31	0.30	6.42	0.48
10493965-1719329	3556866862556915072	5085	2.03	-2.11	0.47	0.52	6.85	0.04
10502726-2300446	3549234430794364160	5365	3.37	-1.37	0.11	0.11	7.17	0.36
10511274-0817026	3763102327298064128	4975	4.73	-0.54	0.21	0.21	8.10	0.26
10521859+0528265	3864195618243548032	4767	4.78	-0.74	-0.12	-0.12	7.57	0.41
10530608-2253102	3549276036141218176	4796	1.21	-1.91	-0.33	0.24	6.76	0.28
10531802-0055302	3803159838000339200	4801	1.62	-1.76	-0.18	0.16	6.84	0.18
10540939-5233263	5359711992455305344	4912	4.19	-0.25	-0.34	-0.34	7.84	-0.02
10541225+0549178	3864303022490267136	5193	2.61	-2.94	0.45	0.46	5.95	0.52
10543311+0528128	3864140775805950208	5159	2.45	-3.01	0.60	0.61	6.03	0.56
10554570-1654038	3556496876894238464	4958	1.81	-1.63	0.24	0.41	7.20	0.18
10563216-0555480	3764649748179457280	5053	4.72	-1.45	0.58	0.58	7.57	0.25
10570875-5207081	5359563558390131968	4594	4.07	-0.11	-0.61	-0.61	7.72	-0.04
10582963+0011130	3804842056430901120	5263	2.09	-3.21	0.72	0.73	5.94	0.28
10590836-6924479	5231719699295439488	5527	2.58	-2.45	2.16	2.18	8.16	...
11000776+4630029	783425712959288576	4953	1.51	-1.83	-0.01	0.38	6.98	0.41
11004069-1102492	3758563126686411776	4891	1.47	-2.97	0.40	0.83	6.29	0.05
11010971+1310060	3967986487953405312	5084	2.17	-1.85	0.35	0.36	6.94	0.46
11023256-0636095	3787611983373749120	4762	4.88	-1.34	0.65	0.65	7.74	0.22

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
11023598+0102539	3805298933576500480	5159	2.45	-2.46	0.54	0.55	6.52	0.08
11051574-4752557	5362354531210538624	5713	3.54	-1.36	0.78	0.78	7.84	-0.13
11051929-1329347	3564247918473953792	4774	4.44	-0.92	0.22	0.22	7.73	0.04
11064962-5323068	5347385401964090240	7311	3.53	-2.57	3.08	3.09	8.95	...
11065789-4643237	5386525267120422912	4997	4.10	-1.39	0.79	0.79	7.83	-0.10
11065939-4920517	5362109546275295872	6300	3.13	-1.17	1.45	1.47	8.73	-0.01
11090121+0754418	3818459160048340352	4863	1.46	-3.04	-0.02	0.43	5.82	0.55
11092807-0242021	3791025112280181248	5656	4.19	-0.18	0.27	0.27	8.52	-0.02
11093391+2327348	3995259156621469440	4923	4.81	-0.79	0.16	0.16	7.81	0.14
11112337+6943386	1074121743923049344	4497	4.51	-0.51	-1.16	-1.16	6.76	-0.05
11132240-0910000	3783099076553128064	5261	4.56	-0.44	0.24	0.24	8.22	0.00
11133490+1015249	3963264914441096320	5074	1.67	-2.47	-0.26	0.08	6.05	0.36
11144345-1133225	3566319673258222208	4850	1.34	-2.49	-0.06	0.52	6.46	0.19
11172319-5030507	5349769001420934784	4998	1.55	-1.82	0.04	0.39	7.01	0.30
11213850+3100109	4023379441379492096	4658	2.59	-0.53	-0.30	-0.27	7.62	0.21
11215118-4555200	5376213596097250176	5248	4.78	-0.53	0.17	0.17	8.08	0.18
11232110+6118098	862722319742958592	5091	2.18	-2.16	0.40	0.41	6.67	0.26
11235327+0025363	3797935886458318336	4663	1.02	-2.07	-0.27	0.39	6.75	0.37
11242364-0642128	3785352182036872320	4939	1.50	-1.98	0.06	0.47	6.92	0.06
11245109-0118132	3796858154608999424	4852	1.83	-3.26	-0.64	-0.57	4.60	...
11245186+8132096	1133615145575572992	5113	3.27	-1.38	0.21	0.22	7.27	0.28
11251752+4810412	789033325338645888	5411	4.79	-0.71	0.13	0.13	7.85	0.35
11252946-0035203	3797041055791986048	5186	4.14	-1.28	0.54	0.54	7.69	0.09
11255206+5922341	859132616140394880	5056	3.42	-0.36	-0.55	-0.55	7.52	0.04
11260849-0718091	3591618782978505472	5290	3.72	-1.91	0.65	0.65	7.17	0.21
11264720+2321085	3992675231281619584	4750	4.30	-1.50	0.61	0.61	7.54	-0.03
11284462+1159546	3917369061419260928	4872	4.79	-0.72	0.01	0.01	7.72	0.08
11293922+6718355	1057741219692489856	4944	4.94	-0.93	-0.07	-0.07	7.43	0.41
11320178+4540156	784645621097082624	5092	1.69	-2.14	-0.02	0.31	6.61	0.12
11322424+7217439	1075031310621259776	4829	4.74	-0.54	-0.12	-0.12	7.77	0.39
11332470+1251440	3917497017084939776	4785	1.44	-1.91	-0.13	0.32	6.84	0.39
11343570+1932184	3977488952772409856	4824	4.00	-1.55	0.63	0.63	7.52	-0.02
11344124+5314269	841082728317714048	5222	1.99	-2.42	0.42	0.49	6.50	0.39
11351928-3430096	3477077051780069632	4687	4.50	-0.62	-0.56	-0.56	7.25	0.09
11364104+3220057	4024512758694334336	4684	4.10	-0.70	-0.34	-0.34	7.39	0.54
11372004+1845309	3974320228980706816	4933	1.60	-2.58	-0.20	0.18	6.04	0.53
11373800-5202251	5345681227653768064	5161	1.75	-2.49	0.72	0.93	6.87	-0.20
11381456+1534117	3972403604119095808	4983	4.06	-1.54	0.49	0.49	7.38	-0.05
11403298+6340440	864134573709331584	4949	4.75	-0.91	0.09	0.09	7.61	0.13
11415054+5035361	790901636102569472	5270	4.69	-0.41	0.34	0.34	8.36	0.58
11423344+0800282	3910233647567741056	5203	2.60	-2.73	0.36	0.37	6.08	0.17
11444533-4644384	5372404612941931392	5379	4.36	-0.57	0.30	0.30	8.17	0.09

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
11465844+4835156	787263141676539648	5050	3.82	-1.17	0.53	0.53	7.78	-0.03
11471027+0341265	3895958344506982784	5095	2.05	-2.62	0.48	0.51	6.33	0.23
11483814+1952557	3976143459777843968	4878	1.40	-2.07	-0.25	0.26	6.62	0.39
11492027+3132066	4021576517188258688	4927	4.81	-0.75	0.01	0.01	7.70	0.13
11505337-8036338	5199459645869304704	5836	3.81	-1.30	0.71	0.71	7.84	0.10
11515346+8151152	1133680021057772544	5208	2.02	-2.09	0.05	0.10	6.43	0.16
11515556-4738558	5371554866553160960	4801	1.16	-2.64	0.40	0.95	6.74	-0.14
11524486-4709547	5377584485241041408	5183	2.60	-1.34	0.29	0.31	7.40	0.21
11541040-5208317	5368942804889403520	5200	4.71	-1.21	0.38	0.38	7.59	0.15
11543955+7023508	1061694681253422336	5079	3.75	-1.28	0.19	0.19	7.34	0.24
11545004+4749009	786606630149557248	5440	4.33	-0.70	0.21	0.21	7.95	0.01
11564526+3145522	4026626810316850048	4612	3.95	-2.32	0.99	0.99	7.10	0.17
11593802+2922115	4008146360612154112	4669	0.78	-2.39	-0.30	0.44	6.48	0.48
11595151-3905280	3459312659023799552	4890	4.49	-0.94	0.41	0.41	7.89	0.07
12001449+1641370	3925430066494830336	4761	4.80	-0.56	-0.17	-0.17	7.71	0.23
12004306+2949116	4008186046109996672	5007	1.47	-2.17	-0.14	0.35	6.61	0.46
12005811-3929233	3459242084121356288	5126	4.63	-0.76	0.93	0.93	8.61	-0.03
12022430+6255274	1582997852929561600	4653	3.82	-1.64	0.77	0.77	7.55	0.19
12034594+3035029	4014343925404883328	4915	4.68	-0.97	0.26	0.26	7.72	-0.03
12052554-4408587	6147464275054037120	5701	3.50	-1.10	1.03	1.03	8.36	0.27
12055188+1735548	3925930962760630656	5424	4.60	-0.68	0.02	0.02	7.77	0.33
12070423-5345229	6076898344653529344	5123	2.01	-2.70	0.66	0.70	6.43	0.02
12070444+7600223	1692730414755815552	5151	4.76	-0.75	0.31	0.31	7.99	0.14
12074090+3519591	4029760766348866944	5033	2.34	-1.45	0.50	0.52	7.50	-0.10
12083074+3954084	1536035581002935424	4798	1.40	-2.63	-0.09	0.44	6.24	0.47
12094665+6450371	1585030811273958400	4681	1.42	-1.89	-0.28	0.19	6.73	0.38
12100140+4520564	1539687570219614080	5080	1.89	-2.53	-0.20	-0.09	5.81	0.33
12104009+7032545	1684079324125218944	5769	4.08	-0.88	0.41	0.41	7.96	0.43
12111339+2220415	4001468785978496768	4848	4.81	-0.93	0.09	0.09	7.59	0.23
12132563-3800203	3461061226110222080	5632	4.72	-0.67	0.85	0.85	8.60	0.57
12143659-1517191	3569366385619378432	4786	4.20	-0.98	0.48	0.48	7.93	-0.14
12155841-3547529	3461905891557813248	5249	4.63	0.00	-0.07	-0.07	8.37	-0.05
12161019+4524243	1538985944361745536	4886	4.85	-0.82	0.02	0.02	7.63	0.15
12181234-3721065	6151711177372668928	4967	1.90	-1.73	0.35	0.47	7.17	0.35
12214951+4244520	1538031641283723008	4722	1.18	-2.74	-0.06	0.59	6.28	0.12
12221869-3853368	6150224495918526848	5195	2.30	-2.88	0.60	0.61	6.16	0.28
12240228-7202466	5842561802238077952	6218	3.75	-0.64	0.60	0.60	8.38	-0.08
12245683+7007242	1683832243246834304	4998	3.39	-0.30	-0.67	-0.67	7.47	0.05
12261008+3926273	1532300402563759360	5344	4.24	-1.07	0.17	0.17	7.54	0.03
12280652-3319179	3468446817511036160	5154	2.03	-1.95	0.15	0.20	6.68	0.19
12284069+1942295	3948963287525544576	4982	1.91	-2.69	0.07	0.15	5.89	0.32
12293447-3233073	3468579201286803200	5109	2.21	-1.50	0.14	0.16	7.09	0.48

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
12334194+1952177	3949121587136124160	4619	0.98	-3.10	-0.03	0.72	6.06	0.47
12335935-3246361	6160173770478603520	5429	3.46	-1.76	0.63	0.63	7.31	0.30
12335980-2944042	3471719754389184384	5113	1.63	-2.16	0.05	0.43	6.70	0.22
12340964-3453438	6158168604865990016	4861	0.98	-2.44	0.12	0.77	6.76	-0.02
12342913+4826025	1543862488889757568	4967	2.02	-1.81	-0.09	-0.04	6.57	0.19
12353682+4854057	1544253571429564800	4721	4.68	-0.51	-0.47	-0.47	7.46	0.10
12353793-4301524	6145744883683553408	5029	2.60	-0.13	-0.51	-0.48	7.82	0.16
12360829-7040522	5843251466600455808	6510	2.92	-1.06	1.51	1.53	8.91	0.01
12363406+4334497	1540600409684268032	5188	4.38	-0.01	-0.37	-0.37	8.05	-0.04
12382743-3400315	6158315870705750912	5047	1.58	-2.62	0.50	0.85	6.66	0.35
12383506+2039384	3949279882451077888	4475	4.55	-1.32	-0.47	-0.47	6.65	0.23
12392838+5038459	1568524878294905088	4858	4.28	-0.56	0.18	0.18	8.05	0.59
12395834-3131208	6160731124090635520	5268	3.86	0.02	-0.05	-0.05	8.40	-0.12
12401578-7012252	5843372485918189440	5705	3.33	-0.29	0.53	0.55	8.69	-0.08
12413756-5412247	6074478212169867904	5054	4.16	-1.00	0.67	0.67	8.10	0.07
12432213-5955445	6056631317380990208	5403	3.49	-0.37	0.06	0.06	8.12	0.01
12433114-8753309	5765813554148627328	4632	2.53	-0.17	-1.03	-1.00	7.26	0.02
12433200-2408376	3501624164266183552	4984	1.92	-1.85	0.15	0.27	6.84	0.29
12435927+7222303	1689741705929430016	5268	2.87	-1.64	0.35	0.37	7.16	0.45
12450496-1907283	3521841434322113152	5192	1.43	-2.29	-0.01	0.52	6.66	0.44
12493821+6415038	1676938094886271104	5049	4.82	-0.68	0.11	0.11	7.86	0.23
12503487+4033500	1527854729160394496	5439	4.31	-0.30	0.23	0.23	8.36	0.44
12505600+5649548	1576792896497757440	4688	3.72	-0.58	-0.30	-0.30	7.54	...
12510042-1942157	3509552399017285632	4793	4.71	-1.03	0.38	0.38	7.78	0.16
12511944+6940558	1688859141689049984	5519	3.06	-2.88	0.73	0.73	6.27	0.46
12534156+4512260	1530523729214664192	5127	4.66	-0.52	0.11	0.11	8.02	0.59
12540492-1445540	3525348811990850560	5387	4.66	-0.49	0.00	0.00	7.94	0.12
12541483-6940177	5844853661205358208	5663	3.94	-0.04	0.40	0.40	8.80	-0.09
12550382+4640597	1530993770436582784	4783	1.25	-2.39	-0.03	0.57	6.61	0.51
12552381-8428164	5770402155472131712	5049	1.62	-2.55	0.23	0.59	6.47	-0.05
12553388+6801121	1679621251151114624	4750	3.84	-1.51	0.65	0.65	7.57	0.00
12572833-5125217	6081346139752486784	4921	1.63	-2.33	0.30	0.66	6.76	-0.03
12592188+5338040	1558199669539397376	5315	4.48	-0.01	-0.60	-0.60	7.82	-0.06
12595962-0829171	3627268897025456000	5338	3.59	-1.20	0.37	0.37	7.60	0.03
13003028+6135085	1579614380772959104	5192	2.63	-2.63	0.72	0.73	6.53	0.44
13022750+5836042	1578633165428231552	5040	3.79	-0.64	-0.34	-0.34	7.45	0.16
13031323+4812574	1555059567409267328	4757	4.87	-0.94	0.05	0.05	7.55	0.16
13044809-8623048	5769157650045097984	5154	1.97	-2.52	0.62	0.68	6.60	0.44
13070832-5007271	6081477913650691456	5586	4.01	-0.12	-0.45	-0.45	7.86	0.02
13073032+4948349	1556370498804511360	4888	1.34	-2.57	-0.11	0.46	6.32	0.38
13091593+4640598	1553980847721855616	4864	4.70	-0.97	0.24	0.24	7.70	0.28
13091772+4524279	1529793344255574016	4908	4.23	-1.19	0.59	0.59	7.83	-0.06

(continued)

Table 3 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
13123590+7259464	1688176585486569600	4817	4.88	-1.11	0.10	0.10	7.42	0.38
13133130-6138303	5863379783621954944	5769	0.93	-0.56	0.58	0.58	8.45	0.40
13134248+3405127	1473046861950780032	5041	1.77	-2.38	0.27	0.52	6.56	0.44
13140302-0929340	3624508096342874240	5324	4.37	-0.38	-0.10	-0.10	7.95	0.08
13145513+3825569	1522993032339838848	5167	2.40	-2.75	0.70	0.71	6.39	0.27
13151765+5708386	1566249645139278720	5372	4.33	-0.77	0.46	0.46	8.13	-0.02
13175280+3411307	1473007485690704128	5090	2.54	-1.58	0.22	0.24	7.08	0.43
13222653+7020284	1685430349037732864	4725	4.38	-1.55	0.66	0.66	7.54	0.00
13222932+3936562	1476579283573419264	5152	4.16	-0.49	0.10	0.10	8.05	0.04
13230288-1704404	3604328999956748032	5193	2.24	-2.57	0.65	0.66	6.53	0.29
13231009-0531428	3635041726974665600	5508	3.60	-0.86	0.14	0.14	7.71	-0.10
13231283+4320557	1549603412755666944	5019	1.70	-2.25	-0.20	0.12	6.30	0.49
13240005-1748099	3604036456848334720	5125	1.98	-2.02	0.42	0.49	6.90	0.09
13241831+4610307	1551088548024093952	4641	0.48	-2.59	-0.43	0.32	6.16	0.49
13242995-4551146	6087082811610225536	5531	4.09	-0.23	-0.23	-0.23	7.97	-0.04
13244275-1607008	3604537731071348992	4929	1.71	-2.27	0.02	0.34	6.51	0.26
13253853-1412517	3608192335923918208	5070	2.08	-2.07	0.40	0.43	6.79	0.29
13282335+7427122	1712581998412032768	4980	3.55	-1.48	0.19	0.19	7.15	0.29
13294999+0115237	3711389512304903168	4853	1.43	-2.58	0.01	0.52	6.37	0.48
13303726-4125545	6160938171579414016	5132	4.06	-1.20	0.24	0.24	7.47	0.08
13351401-0110524	3638534188221336960	4703	1.17	-2.49	-0.34	0.34	6.28	0.14
13360938-4408536	6111481627465700352	5192	1.72	-2.29	0.49	0.75	6.90	0.30
13373017-7717500	5789490093947866624	5162	2.01	-2.73	0.55	0.59	6.29	0.10
13373672+5902017	1662055552169232896	5318	4.79	-0.43	0.09	0.09	8.09	0.13
13375051+4742311	1552172322891498240	5017	1.96	-1.74	-0.06	0.03	6.73	0.32
13394721+6824054	1672939136736222464	4889	4.65	-0.99	0.31	0.31	7.75	0.49
13401321+7237543	1687511071713939712	5070	2.06	-2.54	0.44	0.47	6.36	0.28
13404811+0717285	3724481569055443712	5134	4.73	-0.52	-0.04	-0.04	7.87	0.33
13425404-0717005	3620124270467822848	4597	0.72	-2.77	-0.57	0.18	5.85	0.37
13433867+4844266	1558284370590734336	6030	3.34	-3.15	1.29	1.29	6.57	0.03
13434635-0806060	3618345883425109632	4914	3.32	-1.14	0.20	0.20	7.49	0.06
13443166+1523410	3742083100949072640	4519	4.30	-0.51	-0.68	-0.68	7.23	-0.02
13443667-4143163	6112289699794699264	5134	1.89	-2.19	0.64	0.77	7.01	0.05
13452111-0730545	3619873547457548160	4710	1.06	-2.38	-0.29	0.44	6.49	0.21
13454247-7355568	5791382177358811264	5196	4.56	-0.30	0.29	0.29	8.42	-0.02
13455046+0513062	3714276142644562432	4869	1.39	-2.66	0.27	0.76	6.54	0.42
13455076+1426436	3741132710585731840	4853	4.73	-0.84	0.47	0.47	8.06	0.03
13460278-6854556	5850193237592455552	6724	2.61	-1.65	2.73	2.76	9.54	...
13461713-4155246	6112273791235652352	5202	1.70	-2.30	0.19	0.53	6.67	0.29
13465223-4334387	6108883889504179072	4845	1.42	-2.36	-0.08	0.46	6.53	0.18
13481581-7052139	5840796639405915648	4947	4.20	-0.50	-0.21	-0.21	7.71	0.28
13510697+5853470	1659341789968532736	4936	4.72	-0.91	0.11	0.11	7.63	0.40

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
13512378+0741110	3721736844435125760	5084	4.47	-0.30	-0.16	-0.16	7.96	-0.03
13521659-3554258	6115884072018761728	5327	2.78	-1.72	0.59	0.61	7.31	0.42
13533557+7552137	1712349073745277056	5014	4.76	-0.50	-0.23	-0.23	7.70	0.13
13550687+1707259	1243948839616012160	4612	4.79	-1.26	-0.01	-0.01	7.17	0.24
13580646+1002348	3723801761632006784	4918	4.29	-0.54	0.09	0.09	7.98	0.59
13584157-3151091	6171032134996732416	5541	4.65	-0.34	0.87	0.87	8.97	0.54
13592706+1141130	3727361838547995648	5051	2.18	-1.99	0.15	0.16	6.60	0.56
14002121+5538479	1657538212943126400	4861	4.73	-0.78	-0.13	-0.13	7.52	0.17
14004596+1215235	3727546045400955136	5084	1.96	-2.83	0.97	1.02	6.62	0.19
14012934+1126361	3724429582771428352	4756	1.22	-2.21	-0.31	0.33	6.55	0.36
14020262-6530100	5851263646573358848	6026	3.28	-1.16	1.11	1.12	8.39	0.15
14043744+1255144	1229600350311933952	4603	0.58	-2.43	-0.39	0.35	6.36	0.54
14053819+7503388	1712061237921283456	4707	4.73	-0.29	-0.54	-0.54	7.61	0.08
14063229+4115356	1498298211635183744	5224	4.68	-1.34	0.44	0.44	7.53	0.10
14070810+6936102	1674781746425953792	5020	2.02	-2.17	0.10	0.14	6.40	0.21
14071697+1212488	1226501033191248640	4787	4.96	-0.85	-0.22	-0.22	7.35	0.36
14095514-2844258	6269381255374610176	5101	1.59	-2.65	0.10	0.47	6.25	0.16
14103285-2816339	6270148611411493888	4657	1.10	-1.97	-0.45	0.18	6.64	0.40
14164140+6136563	1666637942972460672	4840	4.70	-0.19	-0.53	-0.53	7.72	-0.07
14173352-2745144	6269861295279466752	5048	3.55	-0.37	0.55	0.55	8.60	0.22
14192484-2307370	6275972209107871872	5069	4.34	-0.41	0.23	0.23	8.26	0.60
14193074+4035121	1491839749053036160	5317	3.99	-0.79	0.34	0.34	7.99	...
14200302+5936293	1660185630782829952	4640	4.79	-1.16	-0.08	-0.08	7.19	0.29
14203031-2729455	6269707565513913088	5181	3.40	-1.07	0.41	0.41	7.77	0.26
14211081-5015172	6091186773125289728	5677	4.37	-0.68	0.12	0.12	7.88	0.33
14223584+4045568	1491104691170130944	5128	2.40	-3.04	0.59	0.60	5.99	0.09
14243397+5624475	1610452860137779584	5287	2.90	-1.67	0.18	0.20	6.96	0.27
14255416+2648176	1256475262057930112	4738	4.39	-0.27	-0.47	-0.47	7.70	-0.07
14261661+8102449	1721820606208706176	4670	0.90	-2.54	-0.14	0.57	6.46	0.41
14280573-1353174	6300021547768039808	4947	1.75	-2.17	0.16	0.45	6.71	0.10
14294135+6525010	1669746193625166976	5872	3.72	-1.79	1.21	1.21	7.85	-0.01
14295841+4502025	1494491496221024512	5142	1.67	-2.00	0.07	0.40	6.83	0.40
14324019+3238042	1287120579569866496	4784	0.95	-2.75	-0.09	0.64	6.32	0.54
14341379-6707026	5848443708440147072	4863	4.09	-1.15	0.40	0.40	7.68	-0.19
14364248-0715099	6331121238455373696	5241	4.66	-0.89	0.08	0.08	7.62	0.39
14385266+3937037	1487940434144428416	4724	1.30	-1.98	-0.17	0.36	6.81	0.42
14402612+0655539	1171807334801223808	5293	2.13	-2.58	0.25	0.26	6.11	0.02
14410823+4223420	1490063071404892544	5395	3.47	-1.26	0.46	0.46	7.62	0.40
14411830+1044242	1177885611173494016	4864	1.40	-2.62	0.03	0.55	6.36	0.19
14421990+5654506	1607745454489656960	5306	4.42	-0.21	0.28	0.28	8.50	0.47
14431485-0206178	3648915222959836800	4755	4.50	-0.38	-0.48	-0.48	7.58	-0.03
14442119+4758464	1591067649802389632	4867	1.61	-2.33	-0.08	0.33	6.42	0.39

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
14443681+3939231	1487238292890443776	4677	4.62	-1.08	-0.04	-0.04	7.31	0.24
14444228+4247368	1490052389822427648	4794	4.69	-0.98	0.16	0.16	7.61	0.35
14453096-0214079	3648730612380753664	5730	4.19	-0.93	0.37	0.37	7.87	0.44
14455563+5838081	1616958709094540672	4661	4.39	-0.32	-0.42	-0.42	7.69	-0.05
14460403-7303141	5796756182184708096	4711	1.22	-2.35	-0.26	0.41	6.49	0.06
14473151+0306259	1157525159792413440	5253	3.87	-0.34	-0.34	-0.34	7.75	0.12
14504173+6652564	1669581885356163456	4747	1.16	-2.78	0.10	0.74	6.39	0.55
14512223+0339397	1157672906667474432	4663	4.75	-0.94	0.17	0.17	7.65	0.13
14520851+7234433	1698671492693440512	5125	4.69	-0.36	-0.04	-0.04	8.03	-0.05
14535190-4724035	5905262548019849856	4704	4.17	-0.37	-0.67	-0.67	7.39	-0.13
14550996+1452303	1185448189587672960	5182	4.24	-0.34	0.32	0.32	8.41	0.45
14561630+4534315	1586671424357440000	5380	3.96	-0.89	0.18	0.18	7.72	0.33
14561931+0829491	1161734987952738176	4857	1.42	-2.49	0.06	0.57	6.51	0.46
14572828+3910442	1296184266229998976	4643	4.51	-0.96	0.27	0.27	7.73	0.06
14572980+5047347	1593299585391391232	4824	4.73	-0.91	0.13	0.13	7.65	0.10
14584270+6055051	1619069599620600576	4944	4.27	-1.04	0.62	0.62	8.01	0.44
14584982+4500407	1586583807024523520	5428	4.52	-0.72	0.49	0.49	8.20	0.39
14590313+0544031	1159807818946952064	4913	4.44	-1.03	0.25	0.25	7.65	0.55
14591786+4755555	1587515844991289600	5342	4.53	-0.18	-0.37	-0.37	7.88	-0.08
15002374+1131178	1180473277429900288	5203	4.79	-0.50	-0.03	-0.03	7.90	0.19
15010054+5654074	1612825747965425152	5048	4.78	-1.00	0.39	0.39	7.82	0.33
15010753+1708495	1187645868519130240	5101	1.57	-2.19	-0.13	0.30	6.54	0.46
15012803+3616594	1294826884765960192	4769	1.91	-1.57	-0.15	-0.02	6.83	...
15015996-2613494	6225828809526332416	5048	2.05	-1.37	0.22	0.27	7.33	0.27
15021465+3507093	1291694234403435648	5065	4.61	-0.51	0.15	0.15	8.06	0.06
15023312+0549057	1159849256791308160	5162	2.35	-0.44	-0.14	-0.11	7.88	...
15023572+0940189	1167946644533913728	4814	1.66	-1.62	-0.09	0.21	7.01	0.55
15023742-2442191	6227668258118329088	5431	3.47	-0.68	0.47	0.47	8.22	0.48
15025030+1345255	1181911644797448832	4376	3.97	-1.45	0.01	0.01	6.99	-0.09
15025884+4539160	1586250517562417024	4993	1.53	-2.30	-0.12	0.36	6.50	0.41
15031286+0602157	1159876916380773120	4963	1.91	-1.95	0.05	0.17	6.64	0.34
15040464+5927327	1614255147440846720	5263	4.76	-0.28	0.03	0.03	8.17	0.07
15043325+0441214	1156620193003216256	4885	1.92	-1.83	0.06	0.18	6.78	0.55
15050841+0701547	1160377499113263360	4830	1.74	-1.72	-0.18	0.09	6.80	0.45
15060136-2508317	6227460583562691968	5360	4.76	-0.95	0.48	0.48	7.95	0.50
15060189+0444205	1156532506951177472	4839	1.27	-2.02	-0.17	0.38	6.79	0.40
15065236-2547072	6226609772026895104	5052	4.40	-0.35	0.22	0.22	8.30	0.59
15071495+5704053	1612981535018964224	4709	4.59	-0.86	-0.04	-0.04	7.53	-0.07
15085620-7020101	5799023787486633984	5114	4.18	-0.18	-0.15	-0.15	8.10	-0.07
15092359+3623180	1292060685309150336	5025	4.34	-1.17	0.37	0.37	7.63	0.20
15094309-2025300	6255898665838008960	5367	4.67	-0.31	0.39	0.39	8.51	0.49
15095381+7303555	1697243020930244608	4656	4.64	-0.65	-0.56	-0.56	7.22	0.38

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
15102643+0809151	1166563287107603328	5145	2.15	-2.05	0.40	0.42	6.80	0.50
15114226+2557063	1265182569515722880	5019	1.95	-2.78	0.51	0.57	6.23	0.36
15122018-6551473	5824755211457838848	5076	3.28	-1.35	0.32	0.33	7.42	0.00
15140783+1824326	1211721397891599872	5038	2.01	-2.12	0.32	0.38	6.69	0.41
15142395+2613341	1265208133161061888	5038	1.39	-2.32	-0.14	0.43	6.54	0.40
15174310-6858306	5799218602888406272	4601	2.02	-0.79	-0.77	-0.59	7.05	0.27
15185830+2620276	1270426797601163008	5104	2.13	-1.96	0.42	0.44	6.90	0.14
15193496+4256501	1394164216985937152	5052	4.29	-1.23	0.66	0.66	7.86	-0.09
15193617+2304315	1215718152722386816	4914	1.65	-2.21	0.00	0.39	6.62	0.34
15200891-6701472	5823675417983108096	5107	4.11	-1.31	0.56	0.56	7.68	0.00
15210142+7816076	1708318332837616256	4877	1.73	-3.54	0.49	0.63	5.52	0.20
15243997-8015248	5772460033220024576	5171	2.86	-1.42	0.81	0.83	7.84	0.24
15244942+6935080	1695610791623488128	5057	4.77	-0.11	-0.29	-0.29	8.03	0.04
15252134+6351159	1640849688017226496	4655	4.78	-0.75	-0.45	-0.45	7.23	0.40
15255933+5026270	1594780288252588032	4744	4.90	-1.05	0.00	0.00	7.38	0.20
15264322-7017087	5796025453632860544	4897	1.49	-2.37	0.15	0.61	6.68	0.26
15272716+2937502	1273518040182639872	5262	3.78	-0.13	-0.48	-0.48	7.82	-0.04
15282654+6737516	1645668263365914368	4999	4.74	-1.36	0.04	0.04	7.11	0.40
15304031+2345045	1220893455176256512	4918	1.48	-2.13	-0.30	0.19	6.49	0.49
15312758+2528504	1222449092327405056	5306	4.75	-0.41	-0.02	-0.02	8.00	0.18
15330912+8158562	1721465807550041856	5024	4.71	-0.66	0.26	0.26	8.03	-0.01
15345353+5610250	1601294344891081472	6097	4.35	-1.14	0.42	0.42	7.71	0.51
15351593+0251226	4427077397649058944	4851	1.33	-2.48	-0.03	0.54	6.48	0.52
15352535+2843009	1272505179518285696	4643	4.52	-0.47	-0.62	-0.62	7.34	0.02
15371627+3318345	1370624708124173312	4871	1.36	-1.93	-0.10	0.39	6.89	0.48
15381851+4804330	1401181854246440704	4772	4.90	-0.99	-0.03	-0.03	7.41	0.23
15391788+5403318	1597864040410848896	5270	4.76	-0.32	-0.09	-0.09	8.01	0.05
15392367+4037228	1389938076542244992	4959	1.23	-2.61	-0.15	0.49	6.31	0.49
15392783+5557319	1601593274615155712	5012	4.39	0.04	-0.41	-0.41	8.05	-0.08
15393011+7252178	1696583898069432704	5052	4.51	-0.74	-0.07	-0.07	7.63	0.11
15394006+4426174	1397344691808122624	4834	1.28	-1.99	-0.33	0.23	6.67	0.35
15414028+8245352	1723003508921638656	5334	4.63	-0.40	0.16	0.16	8.19	-0.06
15420239+0515389	4427879525740941056	5216	2.54	-1.54	0.23	0.25	7.14	0.30
15431257+6424109	1641066429247008128	5227	2.60	-2.32	0.72	0.73	6.84	0.20
15433525+3739578	1376344024013884800	5182	4.06	-0.29	0.15	0.15	8.29	0.48
15441676+0459116	4429308311037974272	4731	0.84	-2.49	-0.27	0.46	6.41	0.49
15452566-4444040	5988917073480792704	5040	1.83	-1.92	0.49	0.64	7.15	-0.03
15460715+0559221	4429522058673688192	5050	2.04	-2.50	0.44	0.48	6.41	0.25
15470901+0505149	4426320800506688384	5048	4.35	-1.34	0.39	0.39	7.48	0.25
15471083-4404210	5989331898604674176	5138	2.94	-0.51	-0.24	-0.21	7.71	...
15475041+6321134	1640197196585984896	4728	4.32	-0.83	-0.09	-0.09	7.50	0.36
15482592-3959257	6008057268799998848	5835	3.28	-0.34	0.57	0.59	8.68	0.38

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
15482651+1917200	1203885900077833984	4615	0.91	-2.52	-0.19	0.53	6.45	0.42
15484895+0949113	4455582481414836096	4733	1.01	-2.29	-0.20	0.51	6.65	0.56
15494232+5707537	1598759730070071808	4794	4.74	-1.02	-0.14	-0.14	7.28	0.36
15495840-4306370	5989480401391030528	4967	2.81	-0.76	-0.33	-0.30	7.38	...
15501637+3536243	1372799645203241856	5280	2.88	-1.61	0.43	0.45	7.27	0.55
15511496+0734493	4430292717546018304	5154	2.60	-1.64	0.16	0.18	6.96	0.21
15512062+0140120	4423150667969419264	5227	3.86	-1.26	0.43	0.43	7.60	-0.04
15514567-3935382	6008406329380234368	5793	2.92	-0.47	0.38	0.41	8.36	0.40
15521212-3934227	6008407257093139456	6122	3.93	-0.05	0.29	0.29	8.67	0.38
15525776+0136148	4411131043072307456	4791	1.31	-2.58	0.03	0.61	6.46	0.43
15533843+0145539	4411228560308157184	4808	1.48	-2.66	0.05	0.51	6.28	0.51
15541062-3255166	6015313976817734784	5144	2.32	-1.45	0.49	0.51	7.49	0.45
15542259-3341566	6012240773099364992	5637	3.58	-0.51	0.86	0.86	8.78	0.33
15542887-3332103	6012255341628535680	5125	1.80	-2.67	0.85	1.00	6.76	0.06
15545039-4652323	5987712279288235648	5351	4.61	-0.20	0.30	0.30	8.53	0.00
15555135+1256054	1191328721374511744	4862	1.66	-2.03	-0.01	0.33	6.73	0.49
15563950+0754021	4454167994065860352	4735	1.34	-2.22	-0.10	0.47	6.69	0.41
15570603+0757417	4454127621373692032	4492	4.23	-0.62	-0.64	-0.64	7.18	-0.13
15583081+1505320	1192938543835309952	4844	4.81	-0.86	-0.07	-0.07	7.50	0.42
15583757-3734113	6010214613689309056	6615	3.67	-1.15	1.29	1.29	8.57	0.07
15584850-3603371	6010918747795620480	5581	4.70	-0.40	0.61	0.61	8.63	0.56
15591458+0507554	4425763554271082112	4615	1.05	-1.80	-0.60	0.03	6.66	0.40
15592133-3416261	6011940778224281856	6037	3.96	-0.52	0.89	0.89	8.80	0.37
15592229-3853560	5997979351379581312	5285	3.23	-0.75	0.79	0.81	8.49	0.58
15592785+0314441	4424940775976241664	5481	3.11	-1.72	0.29	0.30	7.02	0.38
15593606-3220592	6036353337976099840	5297	3.34	-0.92	0.20	0.20	7.71	-0.03
15593767+1613419	1199172465527378176	5043	2.16	-1.25	-0.31	-0.28	6.91	0.26
15595245-3207381	6036461468074424448	5625	4.60	-1.30	0.97	0.97	8.10	0.46
16001273+2435560	1219123340233877376	5182	3.77	-0.75	0.24	0.24	7.92	...
16004212+1105313	4457460855293872128	5199	4.40	-0.66	0.46	0.46	8.23	0.43
16005880-3307564	6036077979033846528	5995	3.89	-0.44	0.96	0.96	8.96	0.28
16020475+0622249	4450709720758088192	5221	4.81	-0.46	0.18	0.18	8.15	0.07
16025295+3733291	1379240098985809408	4808	1.47	-2.37	0.04	0.54	6.59	0.45
16025382-8226516	5768895377865607808	5033	1.98	-3.01	0.07	0.09	5.51	0.02
16025490+0102272	4411633352385123840	4725	4.12	-0.49	-0.20	-0.20	7.74	0.56
16030891+1940229	1203268485640442880	5126	2.23	-2.12	0.51	0.52	6.83	0.32
16032024+1641034	1199294713178394496	5058	4.75	-0.83	0.30	0.30	7.90	0.20
16033629+3116414	1322162667977621632	5325	4.49	-0.01	-0.21	-0.21	8.22	0.02
16034976+0832565	4451626679096707456	5204	4.38	-0.29	0.36	0.36	8.50	0.18
16040396+1841499	1200065646925933056	4890	4.95	-0.90	0.00	0.00	7.53	0.40
16040780+4241470	1383653195061929728	5567	4.63	-0.34	0.23	0.23	8.32	-0.02
16042932-2253301	6242404084762732800	5344	4.53	-0.46	0.37	0.37	8.34	-0.01

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
16045324-2005064	6244194055324808576	5594	3.17	-1.13	0.89	0.90	8.21	0.30
16051879+1359570	1191908675099304704	5642	3.93	-0.70	0.54	0.54	8.27	0.28
16052710+0024235	4409850528641208192	6151	3.76	-0.67	0.70	0.70	8.47	0.40
16052946-2543348	6043663818991262208	4834	3.67	-0.45	-0.33	-0.33	7.64	0.38
16053749+1843052	1200145322861774080	4724	4.07	-1.56	0.77	0.77	7.64	-0.11
16055339+1944171	1203234576873824384	4802	4.19	-0.44	0.17	0.17	8.16	0.54
16060454-3508190	6034898993336955008	5388	4.40	0.02	0.53	0.53	8.98	0.42
16061119-3620355	5998751552140270976	5485	3.53	-0.93	1.06	1.06	8.57	0.53
16061643-3237103	6036155219728437760	5921	3.68	-1.11	0.94	0.94	8.26	0.38
16064542-3216179	6036585644175848576	6068	3.78	-0.63	0.88	0.88	8.68	0.39
16065604-3707315	5998563982328033920	6568	3.67	-0.72	0.53	0.53	8.25	0.09
16073239-2250378	6242439784523836416	6191	4.11	-0.55	0.42	0.42	8.30	0.28
16073532-3208471	6036547126907295616	5160	4.61	-1.20	0.58	0.58	7.80	0.56
16074138-3314575	6035358520474835456	5775	3.86	-0.73	0.49	0.49	8.20	0.46
16074907+1420135	4458558752013944960	4717	3.85	-1.47	0.53	0.53	7.50	-0.01
16080889-2943209	6041589418507890688	5743	3.63	-0.54	0.79	0.79	8.68	0.39
16081391-2017182	6244117639267067008	5901	4.02	-0.77	0.72	0.72	8.39	0.48
16083267-3438595	6034940156304474112	6002	3.79	-0.77	0.76	0.76	8.41	0.36
16084292-2820180	6041824610913270656	5785	4.47	-0.69	0.62	0.62	8.36	0.56
16091164+3008425	1318809707269021184	4691	1.16	-2.28	-0.06	0.56	6.70	0.53
16101125-3446225	6034969392126840320	5591	3.94	-0.64	0.98	0.98	8.77	0.49
16102112+0023264	4408313235288945024	5082	1.59	-2.00	0.09	0.46	6.89	0.47
16102340+3952510	1379957603338177280	4481	4.59	-0.90	-0.62	-0.62	6.92	0.38
16102544+1810108	1199821898940802944	4828	1.44	-2.26	0.05	0.56	6.73	0.49
16103301+0031597	4408318943304571776	5298	2.14	-1.60	-0.05	-0.02	6.81	0.55
16103970-2443561	6049772323329029632	5094	2.74	-0.77	0.52	0.55	8.21	0.56
16105877-2811435	6041842237458491520	5365	2.41	-1.46	0.60	0.62	7.59	0.49
16111495-3204491	6035900167382119808	5580	3.70	-0.79	0.86	0.86	8.50	0.49
16113577-1909453	6245765566678852608	5947	3.59	-0.39	0.53	0.53	8.57	0.03
16114668-2427053	6049806927886876928	5835	3.71	-0.52	0.41	0.41	8.31	0.40
16121101-2818128	6042164669240420864	6127	4.38	-0.08	0.13	0.13	8.48	0.31
16123013+4456046	1385790890480677376	5148	2.39	-1.78	0.32	0.34	7.00	0.21
16132830-2013405	6245397122905040000	6208	4.17	-0.74	0.92	0.92	8.61	0.39
16134375-2517381	6049518065566679040	6110	3.77	-0.28	0.54	0.54	8.69	0.31
16135700-2757099	6042198238705334144	5984	4.00	-0.93	1.17	1.17	8.66	0.39
16141120-2033379	6244625270041451648	6254	3.65	-0.93	0.89	0.89	8.39	0.25
16150157-2339354	6050327233103808768	5423	3.81	-0.68	0.77	0.77	8.51	0.31
16150863-0734143	4348947961102169344	5165	2.38	-1.49	0.21	0.23	7.16	0.36
16154084+3326445	1322837974275568384	5178	2.42	-2.15	0.49	0.50	6.78	0.43
16154634-1423377	4329332948541070976	5735	3.61	-0.98	0.89	0.89	8.34	0.05
16154808-2355376	6050304972294952064	6068	3.50	-0.90	0.83	0.83	8.36	0.29
16154986-0751166	4345832009572003840	4731	1.15	-2.30	-0.36	0.32	6.45	0.19

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
16163380+4615010	1386708295494907904	5272	4.51	-0.85	0.48	0.48	8.07	0.04
16163935-3233268	6035641953958688896	5115	1.37	-2.63	-0.07	0.47	6.27	0.13
16164213-3256588	6035579999042793856	5524	3.33	-1.47	0.53	0.54	7.51	0.39
16165205-2154235	6242759089572065920	5164	3.73	-0.49	0.76	0.76	8.70	0.54
16171415+1832404	1200608324633174784	4890	1.46	-2.30	0.15	0.63	6.76	0.48
16173056-1932253	6245550268557026432	6249	3.00	-1.09	1.32	1.34	8.68	-0.04
16173244+0248331	4436119304542479616	4974	1.70	-2.22	0.35	0.65	6.86	0.28
16173704+3125396	1319323522796448512	4879	1.14	-3.03	0.49	1.11	6.50	0.31
16175168-3344503	6023449568284510592	6012	4.24	-0.29	0.57	0.57	8.71	0.39
16175506-2501165	6048881207813795456	6253	3.70	-1.07	1.44	1.44	8.80	0.34
16180650-1903385	6245955610391354880	5943	3.76	-0.28	0.22	0.22	8.36	-0.01
16194310-0224311	4358730552275110272	5308	2.72	-1.99	0.61	0.62	7.06	0.14
16195744+3711488	1330482668168550016	4983	4.68	-0.22	-0.17	-0.17	8.04	-0.03
16201273+8036085	1710329438388205824	5185	2.48	-2.20	0.45	0.46	6.69	0.38
16201770+4208508	1382053238141320192	4628	4.92	-1.14	-0.12	-0.12	7.17	0.35
16202566+0328284	4436260965440303232	4860	4.23	-0.35	-0.05	-0.05	8.03	0.54
16203416+3132541	1319232263331506304	4743	4.03	-0.50	-0.23	-0.23	7.71	0.54
16203444-2056578	6244454330343783936	5554	3.79	-0.86	1.04	1.04	8.61	0.57
16204714-2606162	6048548399391137152	5920	3.02	-0.56	1.07	1.10	8.97	0.32
16204887+7014507	1652927273492300160	4981	4.16	-0.22	-0.68	-0.68	7.53	-0.06
16211341+3512582	1329412882010974976	4914	4.78	-0.76	0.18	0.18	7.85	0.01
16213044-7002350	5807311386428745984	5949	3.52	-0.90	0.35	0.35	7.88	-0.12
16213929-7135317	5806920991081963136	4816	1.16	-2.17	-0.20	0.44	6.69	0.18
16220240+0700378	4439734017734002944	4982	1.39	-2.40	-0.14	0.43	6.46	0.39
16221768+1134274	4459979806371200512	4968	1.34	-2.17	-0.14	0.42	6.68	0.53
16224822+5100127	1423692705557972992	4793	4.34	-0.69	-0.14	-0.14	7.60	0.51
16225698-3234118	6025040458531718016	5486	4.18	-0.05	0.17	0.17	8.55	-0.12
16231806-3110431	6037281562002354048	5407	3.51	-0.53	0.57	0.57	8.47	0.30
16232673+0535156	4437155113207686400	5240	4.73	-0.50	0.00	0.00	7.93	0.23
16234350+2958278	1318193396641660544	4808	4.00	-1.34	0.62	0.62	7.71	0.05
16241901+0630059	4439457593640443392	4621	0.55	-2.64	-0.12	0.59	6.39	0.43
16243746+8055162	1710372289277885440	5199	4.76	-0.05	-0.02	-0.02	8.36	0.03
16244834+1804359	4467003074331962880	4704	2.78	-1.77	0.48	0.50	7.15	0.32
16251518+0520267	4437084641390808960	4605	0.95	-2.47	-0.33	0.42	6.38	0.53
16253573-0834395	4350830702966299648	5147	1.83	-2.55	0.67	0.82	6.70	0.21
16254695-3354120	6023951392267153408	6065	3.83	-0.64	0.83	0.83	8.61	0.38
16254871-1359117	4328986293140183680	5069	1.62	-2.53	0.07	0.45	6.36	0.17
16260791-2025280	6052684487252718080	5605	3.72	-1.08	1.37	1.37	8.71	0.53
16260857+3126550	1324425389891741696	4505	4.25	-1.44	0.01	0.01	7.01	-0.19
16263668-0628581	4352076965036319872	5301	4.31	-0.23	0.07	0.07	8.28	0.02
16270418+0322290	4433540296934619520	4763	1.00	-2.49	0.02	0.69	6.63	0.55
16272230+3655279	1331122622592397568	4853	1.15	-2.59	-0.44	0.25	6.09	0.24

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
16272250-0848362	4350762533245253632	4830	1.27	-2.54	0.03	0.62	6.52	0.25
16272730-1210551	4331507503365927680	5173	4.14	-0.39	-0.55	-0.55	7.49	0.10
16272732+1123305	4459078580497051136	5242	4.73	-0.74	0.15	0.15	7.83	0.42
16274702-3314031	6024841279438699008	5108	2.69	-0.95	0.66	0.68	8.16	0.40
16283300+1722329	4467079971426476160	4698	1.05	-2.57	-0.33	0.40	6.26	0.40
16290198+1430507	4463821083383973760	4674	1.23	-3.55	-0.20	0.44	5.32	...
16293666+0213503	4432101100636150400	4916	4.29	-0.89	0.36	0.36	7.90	0.09
16300807+3459161	1326275047622823552	5254	4.60	-0.81	0.37	0.37	7.99	0.43
16302614-3342496	6024015541893607808	6448	3.36	-1.15	1.12	1.13	8.41	0.14
16303876+1329513	4460685211799513600	4920	1.84	-1.86	0.01	0.19	6.76	0.24
16305318+4405187	1405543067118031488	4748	4.73	-1.37	0.10	0.10	7.15	0.41
16312561+1408014	4460744722866525824	5232	4.48	-0.46	0.28	0.28	8.25	0.00
16320549+0401083	4433503532014896512	5511	3.47	-2.27	0.71	0.71	6.86	0.32
16322157+1615449	4465786018039320320	4791	1.53	-1.66	-0.35	0.06	6.83	0.35
16323169+1555079	4465571613272013440	5068	1.53	-2.39	-0.10	0.39	6.44	0.23
16325211-8327479	5768596864756350976	5082	3.52	-1.37	0.34	0.34	7.40	-0.10
16325439-7525259	5781162663455262080	4779	2.31	-0.34	-0.63	-0.60	7.49	0.23
16333188+5906052	1623752935039977088	5433	3.17	-2.85	0.18	0.18	5.75	0.13
16341169+4636439	1407185565691196672	4876	4.03	-0.30	-0.09	-0.09	8.04	0.52
16342046+1157567	4459450868260931456	5211	2.81	-2.18	0.42	0.43	6.68	0.41
16343097+0620345	4438931438666007296	4822	1.17	-2.33	-0.40	0.29	6.39	0.37
16344239+2231419	1298095453661818880	4786	4.75	-1.04	0.28	0.28	7.67	0.01
16350481+1137192	4459250349123575808	4597	0.60	-2.67	-0.05	0.67	6.43	0.36
16352407-3359508	6024133674994546944	5795	4.36	-0.83	0.98	0.98	8.58	0.45
16353942+1442022	4462370655749089792	4929	4.77	-0.61	-0.18	-0.18	7.64	0.26
16354720+1246210	4459657718184334720	4909	4.89	-0.42	-0.16	-0.16	7.85	0.24
16360774+5058387	1411871031413851648	5539	4.74	-0.50	0.12	0.12	8.05	0.11
16373418+3852001	1331616986212008192	5206	2.43	-2.93	0.57	0.58	6.08	0.31
16374852+0734375	4439132546216071296	6244	3.78	-0.89	0.68	0.68	8.22	0.36
16382363-6644037	5815570715927353216	5149	4.06	-0.51	-0.49	-0.49	7.43	0.14
16383378+0540276	4435778760872577024	4906	4.64	-0.06	-0.29	-0.29	8.08	-0.02
16384693+1812116	4562485587504234880	5095	1.53	-2.31	-0.26	0.22	6.34	0.58
16385168+1723396	4466157103214240256	5010	1.81	-2.56	0.56	0.73	6.60	-0.17
16385848+3000087	1311872265637358336	4949	4.74	-0.67	0.20	0.20	7.96	-0.06
16391895+0338467	4434135338883534336	5310	3.57	-1.90	0.77	0.77	7.29	0.05
16393846+0740507	4445130901837683584	4686	4.23	-1.35	0.48	0.48	7.56	-0.10
16394169+4228154	1356989076015732864	4838	1.75	-1.91	-0.03	0.22	6.74	0.20
16394396+4249163	1357571404861995136	4634	1.29	-1.82	-0.36	0.16	6.77	0.10
16402468+1550407	4462850115836027648	4885	1.22	-2.90	-0.38	0.28	5.81	0.52
16413086+2631045	1301433231662419840	4925	1.88	-2.23	-0.15	0.00	6.20	0.21
16414836+1216122	4460825777486994048	5070	2.04	-2.64	0.45	0.49	6.28	0.28
16420651+2604225	1301214463209079040	4647	4.78	-1.26	0.26	0.26	7.44	0.12

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
16421928+2344032	1299750291677336960	4570	0.81	-2.94	0.27	0.95	6.44	0.18
16423938-8306366	5768700008393198464	5090	2.01	-2.28	0.42	0.48	6.62	0.11
16430853+0426005	4434657430811775232	4789	4.68	-0.99	0.23	0.23	7.67	0.12
16432853+1024103	4446900634521443584	4603	1.12	-2.50	-0.30	0.42	6.35	0.44
16435657+3232386	1314234398867571072	4808	1.39	-2.09	-0.11	0.41	6.75	0.35
16440315+1154212	4448745095340450944	5265	4.34	-0.50	0.28	0.28	8.21	0.42
16443996-7951474	5775442729091999616	4898	1.28	-2.44	-0.21	0.42	6.42	0.24
16461012+3554551	1327313154102801664	5019	1.74	-1.88	-0.26	0.02	6.57	0.32
16462075+1719330	4559215674287937536	5178	4.78	-0.43	0.08	0.08	8.08	-0.06
16462090+0333477	4433981853933019264	4849	1.22	-2.47	-0.20	0.46	6.41	0.45
16464088+0311203	4385915672332609280	4920	4.64	-0.28	-0.21	-0.21	7.94	0.13
16471020+5015587	1412373954904373760	5058	2.11	-2.25	0.53	0.55	6.74	0.39
16472419+1507161	4461858837385161088	5318	4.77	-1.11	0.18	0.18	7.50	0.55
16472795+2336019	1299862235704972928	5136	2.36	-1.54	0.35	0.37	7.25	0.16
16474061+1340279	4461395668115705344	4787	0.91	-2.05	-0.21	0.43	6.81	0.51
16482585+4245290	1356678949313407360	5118	3.04	-0.57	0.12	0.13	7.99	0.29
16483067+5232124	1413923647824211456	5150	3.15	-0.48	-0.37	-0.35	7.60	0.01
16485963+2050021	4564767112786411648	5039	4.66	-0.95	0.24	0.24	7.72	0.40
16491646+1922215	4562883030895304960	5572	3.32	-1.69	0.49	0.50	7.24	0.08
16492419+1810509	4559694756410004480	5147	4.71	-0.63	0.20	0.20	8.00	0.03
16501693+3227048	1314079917484186880	4733	0.93	-2.31	-0.46	0.29	6.41	0.53
16501966+2135346	4565674033785572096	4932	1.55	-2.03	-0.28	0.15	6.56	0.17
16505552+5951110	1438058374730240256	4714	0.90	-2.69	0.11	0.79	6.52	0.34
16510088+3648458	1351373148578890624	5651	4.13	-1.02	0.55	0.55	7.96	0.11
16511460+5352298	1426065314211359488	5097	2.40	-1.94	0.36	0.37	6.86	-0.14
16514772+3844288	1352397519754683136	5141	2.56	-2.31	0.28	0.29	6.41	0.03
16523005+0311543	4386055756985792640	4763	1.34	-2.00	0.02	0.50	6.93	0.52
16534583+2531166	1306113268546500352	4614	4.50	-0.60	-0.70	-0.70	7.14	0.02
16534773+3049290	1312862856894855040	5092	2.18	-1.92	0.30	0.31	6.82	0.37
16545744+2603567	1306294683667797248	5193	4.49	-0.47	0.33	0.33	8.30	0.42
16553977-8810318	5765193738828393600	5063	1.45	-2.15	-0.57	-0.04	6.24	...
16563138+3921373	1352143528272068864	5145	1.94	-2.07	-0.13	-0.03	6.33	0.12
16563406+1516544	4545782356611145728	4657	1.09	-2.27	-0.17	0.50	6.66	0.46
16574714+4326284	1358072923898101120	4902	4.32	-0.72	0.22	0.22	7.93	0.59
16581141+4516190	1359217446784103296	4960	4.76	-0.21	-0.32	-0.32	7.90	-0.05
16583722+0153432	4384878175734959744	5285	2.63	-2.62	0.79	0.80	6.61	0.45
16590140+2521558	4572761867992849920	5028	1.34	-2.76	-0.13	0.43	6.10	0.45
16591231-5353249	5935760874615991808	5071	4.49	0.01	0.52	0.52	8.96	-0.09
17001311-7651059	5777695868934489600	6137	3.44	-1.26	0.84	0.84	8.01	-0.07
17024781+2559130	4573174150493770368	4754	1.26	-2.50	-0.15	0.49	6.41	0.34
17034238+4012376	1353472361090529536	5018	4.72	-0.43	0.11	0.11	8.11	0.04
17034776+2709455	4573403428730280064	5423	4.32	-0.53	0.10	0.10	8.00	-0.01

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
17035954+4513186	1358789148349761152	5270	2.68	-1.89	0.34	0.35	6.89	0.44
17041564+1932115	4560834812533156480	4798	1.59	-2.96	0.06	0.36	5.82	0.04
17041979+6325224	1631229304871201024	4769	0.91	-2.15	-0.36	0.36	6.64	0.44
17042385+6726017	1636646151984790784	4651	4.51	-0.41	-0.77	-0.77	7.25	-0.12
17045983+1948039	4561595434057474304	4704	1.14	-2.36	-0.06	0.59	6.66	0.51
17054252-6742414	5814397399577566848	4839	2.45	-0.31	-0.83	-0.80	7.32	0.11
17060632+6430248	1632107986461148928	5188	1.75	-2.24	-0.20	0.07	6.26	0.39
17095788+4825288	1414140487836898048	5025	4.39	-0.20	-0.37	-0.37	7.86	-0.03
17104782+4615401	1364943737701366144	5461	3.47	-0.57	0.52	0.52	8.38	0.12
17115737+4056337	1341931337289579648	5295	4.16	-0.73	0.31	0.31	8.01	-0.03
17125716-2214215	4115322081195173248	6334	3.08	-1.37	1.54	1.56	8.62	0.18
17130596-3442468	5978819326162668288	6827	3.01	-1.44	1.85	1.87	8.87	0.12
17130931+4245360	1354380420256070272	5159	4.50	-0.32	-0.40	-0.40	7.71	0.10
17133146+5029289	1414644171538142464	5201	4.78	-0.58	-0.10	-0.10	7.75	0.17
17134640-2252270	4114531910303984896	5755	3.03	-0.95	0.97	0.99	8.47	0.22
17134904+4643336	1364979746707350016	4971	1.79	-2.71	0.15	0.35	6.07	0.32
17151412-2251434	4114489441664092160	5937	3.22	-0.80	0.97	0.98	8.61	0.30
17154790-5232570	5925618184739644160	4928	1.72	-3.19	0.38	0.54	5.78	0.07
17160251-2205199	4114972844488807680	5451	3.95	-0.78	0.65	0.65	8.30	-0.01
17162512+4249078	1360187452261689472	5322	3.21	-1.34	0.45	0.46	7.55	0.35
17163270+4302287	1360381309905667840	5455	4.35	-0.22	-0.15	-0.15	8.06	0.01
17163966-8711235	5765345368353739392	5328	2.53	-2.37	0.66	0.67	6.73	0.14
17174451+3653087	1339989290517076096	5252	2.56	-2.60	0.63	0.64	6.47	0.28
17185527+3839047	1340720740627444096	4963	4.60	-0.83	0.19	0.19	7.80	0.02
17192865-6853306	5811209090730279680	5135	2.62	-0.51	-0.19	-0.16	7.76	0.14
17194406+4515228	1361644549983238272	4950	1.95	-2.47	0.15	0.23	6.18	-0.04
17212704+5033288	1414790574087583360	4731	0.97	-2.18	-0.03	0.60	6.85	0.47
17215395-6411338	5814091284361742976	5022	1.30	-2.92	0.34	0.88	6.39	0.30
17215498+1423078	4543224965582361984	4885	1.48	-2.65	-0.36	0.13	5.91	0.18
17224220+0353126	4389167576754184192	4912	1.95	-1.86	-0.06	0.04	6.61	0.42
17234737-5834124	5916061474500671232	4827	1.43	-1.97	0.00	0.45	6.91	-0.01
17240759+3635398	1337102866336482688	5045	1.99	-2.61	0.74	0.79	6.62	0.45
17251201-7832462	5776783519098670464	...	...	...	...	...	...	...
17252775+5318307	1416272239020984576	5126	2.45	-2.37	0.42	0.43	6.49	0.23
17254679-8513010	5767118193414597632	5642	3.87	-1.10	0.57	0.57	7.91	-0.05
17255611+1556131	4543997853536251264	5448	3.89	0.09	-0.52	-0.52	8.00	-0.05
17265179+3527349	1335862475484040064	4891	1.45	-2.41	-0.08	0.44	6.47	0.47
17272663+3847099	1343578233909298816	6867	4.60	-1.11	1.21	1.21	8.53	0.23
17283154-6945443	5810934625139045248	5540	3.24	-0.98	0.85	0.86	8.31	-0.12
17285162-6941036	5810941016050593536	4914	1.47	-2.37	0.40	0.82	6.89	0.06
17285482-5720440	5919234390177666304	5559	4.61	-0.39	0.25	0.25	8.29	0.00
17291858+7510248	1655949551783195520	4640	0.76	-2.50	-0.57	0.19	6.12	0.51

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
17292254+0305472	4388901086920961024	4852	1.48	-2.39	0.15	0.61	6.65	0.48
17293008+5534560	1421238419509501568	4983	1.68	-2.88	0.51	0.76	6.31	0.31
17303697+0421414	4389421362079616512	4613	0.65	-2.60	-0.32	0.43	6.27	0.46
17314553+2843156	4598739479466205568	5293	2.87	-2.15	0.37	0.38	6.67	0.16
17315874-5342306	5921618165752908928	5066	1.86	-2.34	0.52	0.68	6.77	0.12
17330791+2548590	4594030404311114240	4894	4.68	-0.45	-0.22	-0.22	7.76	0.09
17331311+1713463	4550007577936164864	4763	4.75	-1.15	0.53	0.53	7.81	0.21
17331323+3152308	4601590066440260096	4778	1.65	-1.98	-0.38	-0.03	6.42	0.02
17332654+2633432	4594840366419966208	5443	3.00	-3.02	0.56	0.56	5.97	0.57
17333170+5456025	1420926742322768640	4887	4.54	-0.91	0.17	0.17	7.68	-0.06
17333194-5022586	5946394938738915584	5170	2.08	-1.24	0.15	0.20	7.39	0.25
17334423+1911331	4553866722012938496	5530	4.61	-0.33	0.15	0.15	8.25	-0.03
17334679-6744028	5813027335062608384	4757	2.43	-0.51	-0.65	-0.62	7.29	0.18
17335350+1815568	4550692088345948672	4921	1.65	-2.31	0.12	0.51	6.63	0.20
17335522+1719221	4550032381370693376	4784	4.47	-0.29	-0.56	-0.56	7.58	-0.06
17355093+1411487	4542596697766095232	5358	4.18	-0.34	-0.48	-0.48	7.62	-0.12
17370392-7408233	5803200381170398336	5175	4.23	-0.06	-0.60	-0.60	7.77	-0.03
17371472+1603347	4549079418323779712	6600	3.75	-0.69	1.16	1.16	8.90	0.43
17373165+0109351	4375387436181302912	5025	1.79	-2.65	0.63	0.80	6.58	0.42
17374593-4903259	5946896105559051392	5310	4.24	-0.09	-0.52	-0.52	7.82	-0.01
17381613+1806130	4550553412442483456	4785	3.38	-1.91	0.83	0.83	7.35	0.01
17382795+8319481	1711261033974731648	5292	4.94	-0.72	0.17	0.17	7.89	0.39
17390078-7342041	5803233817494625536	5903	3.11	-1.03	0.54	0.55	7.95	0.05
17390590+1504553	4548685209048009600	4698	1.14	-2.20	-0.13	0.50	6.73	0.53
17393096-5334586	5921761544627396352	5088	2.04	-2.32	0.37	0.42	6.52	0.14
17412217-6605479	5812858972344007680	4679	1.03	-2.51	-0.24	0.48	6.40	-0.10
17412978+2128403	4556052314917665920	5352	3.61	-0.24	-0.33	-0.33	7.86	0.05
17415044+2448137	4581633552441283328	4979	1.92	-2.67	0.33	0.42	6.18	0.36
17421570-5343061	5921703652781168768	4775	1.17	-2.60	-0.13	0.53	6.37	0.01
17422649+3217551	4601113221991774976	4874	4.70	-0.72	0.24	0.24	7.95	0.00
17425789+0417381	4473307880166709248	5223	1.72	-2.75	0.14	0.39	6.08	0.25
17431049+5633516	1421354113045323904	4560	4.07	-0.45	-0.91	-0.91	7.07	0.20
17435113-5359333	5921684136450078592	5124	1.37	-2.45	0.11	0.64	6.62	0.14
17442011+0827068	4488216467565808512	5273	2.36	-1.77	0.35	0.37	7.04	0.28
17442313+1055585	4489909058337283584	5258	4.51	-0.23	-0.23	-0.23	7.97	0.04
17451045+1600587	4501194587422903936	5225	4.62	-0.21	-0.25	-0.25	7.97	-0.04
17452465+0613284	4474168965270090368	4715	1.18	-2.75	-0.57	0.14	5.81	0.38
17452911+0549214	4474076782390335616	5146	1.66	-2.68	-0.42	-0.10	5.65	0.54
17460256+1657355	4549397894441550848	5226	3.62	-0.68	0.15	0.15	7.91	0.19
17465957+1519406	4501077351995658496	5131	2.34	-3.54	0.71	0.72	5.62	0.17
17470290-5058143	5945699978662588416	5286	4.57	-1.07	0.57	0.57	7.93	0.19
17471725-6723320	5812356121877182080	4713	1.09	-2.33	-0.30	0.42	6.52	0.26

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
17471835-0035363	4371256532336413056	5829	4.28	-0.51	0.20	0.20	8.12	0.01
17472373+5750230	1422587593292960640	4684	0.81	-2.19	-0.29	0.41	6.65	0.53
17473698+5229473	1368840406910596992	5194	2.31	-2.39	0.57	0.58	6.62	0.18
17485598-7415094	5803007691756413056	4816	1.64	-2.85	-0.21	0.09	5.67	0.09
17493006+1616540	4501261550253801344	5032	2.26	-1.74	0.16	0.18	6.88	0.32
17493192-5314272	5921036111776622592	5429	2.96	-1.75	0.36	0.38	7.06	0.22
17505960+1845110	4551354475384137600	4976	1.61	-1.98	-0.09	0.27	6.72	0.21
17512033+4313226	1346347658884884608	5040	4.61	-0.81	0.32	0.32	7.94	0.51
17513368+0735474	4475867611955393280	5424	4.01	-1.56	0.31	0.31	7.18	0.10
17514375-8447409	5767473713627782016	4793	1.25	-2.80	0.24	0.81	6.44	-0.15
17515635+0549550	4473933497983061632	5401	4.30	-0.20	-0.20	-0.20	8.03	0.03
17530760+0355502	4472708298435677312	5628	4.25	-0.63	0.35	0.35	8.15	0.03
17531820-5828173	5918003040226875648	5032	1.93	-1.62	-0.09	0.02	6.83	0.22
17553087+1344549	4499700449901916672	4877	0.91	-2.31	-0.26	0.47	6.59	0.50
17563856-6259025	5911002106095737472	4604	4.74	-2.37	0.83	0.83	6.89	0.12
17570985+6104567	1435424254107968896	5018	2.56	-0.83	0.15	0.17	7.77	-0.04
17580876-5017025	5947067839841987840	4861	1.60	-1.87	-0.31	0.07	6.64	0.32
17582442-5200036	5945364387093681024	4666	1.14	-2.80	-0.14	0.55	6.18	0.15
17583367+0851134	4476514330950969216	4943	1.80	-2.93	0.45	0.59	6.09	0.24
17590214+0226114	4468887736043966848	5035	4.30	-1.18	0.49	0.49	7.75	-0.08
17593067+0547081	4474462912835838336	5378	4.38	-0.73	0.85	0.85	8.55	0.37
17595240+0845349	4476464986070993664	4743	1.01	-2.20	-0.39	0.31	6.54	0.42
17595579+0402394	4469713473577956352	4919	1.36	-2.22	-0.18	0.41	6.62	0.53
18004880+4241389	2113828593508701696	5907	4.63	-0.32	0.13	0.13	8.24	0.07
18012521+1607266	4501806912321934592	5021	3.43	-1.10	0.27	0.27	7.60	0.04
18013011-6117020	6635006422507626880	5090	3.03	-0.10	-0.79	-0.78	7.55	0.18
18015056-5628090	6651913342230612608	5458	4.48	-0.45	0.27	0.27	8.25	-0.01
18025682-7550189	6414540257944747008	5997	3.36	-1.22	1.01	1.02	8.23	-0.08
18033495+4211510	2113756098755468288	5009	1.65	-2.49	0.00	0.36	6.30	0.35
18042621-7447453	6417661629719563264	5053	1.41	-2.21	0.18	0.65	6.87	0.16
18042842-7051331	6431507302910109952	4992	1.65	-2.40	0.35	0.68	6.71	0.17
18045298-5543550	6652206220339855104	4935	1.58	-2.37	0.06	0.48	6.54	0.19
18045953+0826177	4476206639494994944	5221	2.44	-1.64	0.38	0.40	7.19	0.07
18052892+0754210	4475421897432191616	5569	0.99	-1.66	0.05	0.47	7.24	...
18062441-6457049	6629637992566177664	5653	4.29	-0.87	0.37	0.37	7.93	0.04
18063457+0547198	4471868065390279680	5433	3.04	-1.23	0.14	0.15	7.35	0.26
18072175+5952412	2158636960809774336	4723	4.79	-0.81	0.02	0.02	7.64	0.10
18073369+5849547	2152484604840257280	4747	4.67	-0.97	0.02	0.02	7.48	0.00
18082002-5104378	6702907209758894848	5689	2.73	-3.81	1.40	1.40	6.02	...
18083624-6750220	6435985682492232320	5281	4.25	-0.61	0.31	0.31	8.13	0.31
18085682-2106299	4094063947258804608	6448	3.46	-1.05	0.83	0.83	8.21	0.15
18095421-6630506	6437097494904121600	5988	4.11	-0.54	0.34	0.34	8.22	0.12

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	A(C) _c	[Mg/Fe]
18100815-6731119	6436045915114732672	4837	4.83	-1.36	0.78	0.78	7.85	-0.03
18102490-7119083	6431254307857238784	5440	3.00	-1.85	0.42	0.43	7.01	0.20
18123519-6033510	6635102251817906304	5202	4.75	-0.73	0.20	0.20	7.90	0.33
18124977+5854462	2152380494834185984	5007	1.01	-2.16	-0.04	0.58	6.85	0.54
18135644+4824196	2122140905709563904	5230	4.76	-0.48	0.12	0.12	8.08	0.08
18141754+1612114	4498809506188122624	6923	4.34	-1.73	2.47	2.48	9.17	-0.03
18145902+5852559	2152342188021376384	4972	4.94	-0.82	0.13	0.13	7.74	0.29
18150365-3751206	6727766450449365248	5034	1.51	-2.74	0.55	0.92	6.61	0.14
18162072-4725281	6707603223921252608	5196	1.95	-2.17	0.18	0.27	6.52	-0.10
18165208+6146498	2159095113561329024	4840	1.22	-2.64	-0.05	0.58	6.36	0.41
18171654+1311582	4485396250300800768	5520	4.35	-1.07	0.43	0.43	7.78	0.01
18190641-6824118	6432812045255424128	5352	2.01	-0.37	-0.67	-0.48	7.59	...
18191919-2029254	4091364130814956032	5772	2.10	-0.49	0.50	0.54	8.48	0.56
18192007-5552473	6649365494611393920	4555	3.24	-1.58	0.71	0.72	7.57	-0.01
18193127-3713134	6728130968571404800	5054	1.88	-1.69	0.23	0.38	7.12	0.42
18194826-5310564	6653631805885843200	5193	2.01	-2.32	0.62	0.68	6.79	0.14
18203066-2016012	4091455699522188416	5881	4.20	-0.76	0.69	0.69	8.36	0.34
18204921-3419480	4044557100560972800	5144	2.15	-1.75	0.29	0.31	6.99	0.31
18211549+5653298	2150956936513301632	5079	1.79	-2.10	-0.02	0.21	6.54	0.36
18220774-7608090	6413638383531665664	5512	4.33	-0.21	-0.18	-0.18	8.04	-0.09
18223327-5258169	6653722004497397120	4704	4.62	-0.73	-0.15	-0.15	7.55	0.12
18231998-3926193	6726604713316398336	4674	1.05	-2.57	-0.36	0.37	6.23	0.05
18232072-7312133	6418085663251356416	5477	4.54	-0.52	0.02	0.02	7.93	0.00
18273263-5638304	6648380469631584128	5330	2.56	-1.54	0.89	0.91	7.80	0.32
18274709+1732530	4522680968780032128	5144	1.49	-2.40	-0.09	0.42	6.45	0.49
18285509-3410250	6734946570607247360	5568	4.46	-0.17	0.39	0.39	8.65	-0.06
18293868-2010483	4092688806190705152	6617	2.93	-1.35	1.58	1.60	8.68	0.15
18301354-4555101	6708532208165979392	5124	1.97	-3.50	2.86	2.91	7.84	0.32
18302241-3955233	6723716880376076928	5106	1.47	-2.47	-0.12	0.38	6.35	0.26
18305087-6953306	6431994249123338240	5064	3.40	-1.28	0.47	0.47	7.62	0.26
18311217+4103160	2110452925308798080	4866	1.47	-2.53	0.21	0.67	6.57	0.36
18315993-6920161	6432068225640386432	4720	1.48	-2.30	-0.02	0.48	6.61	0.24
18321423-3829407	6726896461847358848	5397	2.61	-1.13	0.12	0.14	7.45	0.34
18324025-6202554	6631161743881174400	5075	1.93	-2.35	0.53	0.64	6.71	0.29
18334251+4115292	2110471101610527616	5537	4.14	-0.44	-0.40	-0.40	7.59	0.05
18340800-5627514	6649667246135478144	5300	3.80	-0.27	0.11	0.11	8.28	-0.03
18352484-3639135	6733341416736455936	5390	2.42	-1.93	0.75	0.76	7.26	0.03
18352710-4928306	6703851728906337152	5183	2.48	-1.50	0.28	0.30	7.24	0.18
18354018-3948416	6723580609650147712	5244	1.58	-2.11	0.73	1.00	7.32	0.15
18360814+1919587	4524742759245230592	5021	1.99	-2.56	0.03	0.08	5.96	0.13
18361214-7333443	6418205892271978624	4865	1.47	-2.70	0.53	0.93	6.65	-0.04
18371329-3141091	4046640705089371136	5081	1.17	-2.74	-0.15	0.52	6.21	0.30

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
18373068-5538076	6649914292651257984	4908	1.49	-2.09	0.30	0.68	7.02	0.01
18395804+4820336	2119887903305583104	4731	1.24	-2.44	-0.20	0.44	6.43	0.37
18404278-5822181	6636472453764175744	5615	3.45	-1.04	0.68	0.68	8.07	-0.07
18405632+5805144	2154314260908589184	4974	1.77	-2.05	0.27	0.50	6.88	0.45
18411282-6105584	6632762873329420544	4766	1.18	-2.29	-0.34	0.34	6.48	0.27
18430593-7820300	6364899129015765248	4947	4.47	-0.42	-0.21	-0.21	7.80	0.11
18462350-4939426	6656086710412617344	5211	4.65	-0.15	-0.17	-0.17	8.11	-0.01
18482959-4911163	6656206965197014272	5571	3.87	-0.54	0.24	0.24	8.13	-0.06
18490576-5304063	6651390073476420736	5048	4.00	-0.12	-0.34	-0.34	7.97	-0.06
18491122+4005588	2098297480667292160	4969	4.69	-0.28	-0.39	-0.39	7.76	0.01
18512136+5319111	2146237458947371520	5408	3.04	-1.64	0.20	0.21	7.01	0.06
18515139+7849432	2293311669034242432	5371	2.33	-1.66	-0.02	0.00	6.77	0.06
18523585+4032042	2103587162389240064	4800	4.15	-0.38	-0.14	-0.14	7.91	0.47
18523981+4129288	2104473093882735104	4939	1.97	-1.77	0.13	0.21	6.87	0.59
19024429+5351114	2134680487931467648	5668	4.30	-0.46	0.08	0.08	8.05	-0.01
19025533+4219090	2104015387809994496	5113	2.08	-2.51	0.63	0.66	6.59	0.39
19032297-4757304	6662155460541591424	5306	4.42	-0.31	0.50	0.50	8.62	0.00
19035178-5108429	6657682239223060736	4640	0.94	-2.30	-0.62	0.15	6.28	0.39
19044854+5029122	2133638842399952256	5272	3.01	-1.35	0.44	0.46	7.54	0.37
19052503-7826440	6364286563599950592	4957	2.30	-0.26	-0.84	-0.81	7.36	0.06
19055032-5206090	6656823172744784384	4802	1.28	-2.59	-0.08	0.52	6.36	0.27
19060062-5118110	6657644374791106304	4746	0.65	-3.27	0.83	1.55	6.72	...
19060226-6310122	6438853483690577024	4587	2.10	-0.46	-0.54	-0.44	7.53	0.08
19120066-6302562	6438895574370061568	4879	1.80	-1.68	0.07	0.27	7.02	0.27
19131047+3313392	2043394428389668992	4977	1.48	-2.52	-0.15	0.34	6.25	0.26
19155183-4922541	6658254874322598016	5218	2.45	-1.99	0.41	0.42	6.86	-0.04
19155497+4038463	2101342715562410240	4877	1.45	-2.88	0.26	0.71	6.27	0.51
19160765+4246319	2102705938181969408	5141	2.57	-2.16	0.34	0.35	6.62	0.06
19184233+8121549	2295494715010792576	5641	3.49	-1.42	0.82	0.82	7.83	0.54
19214950-7947382	6361002631604746752	6159	2.87	-0.58	0.97	1.00	8.85	0.09
19232375+4720104	2129167334770344704	4917	1.56	-2.82	0.26	0.63	6.24	0.40
19233833+4018284	2101121026531480960	4884	1.83	-1.76	-0.15	0.05	6.72	0.49
19242686+8215294	2295685828172114688	6268	3.90	-0.61	0.56	0.56	8.39	0.39
19253278-2828581	6764789893132461568	5394	3.78	-0.82	0.61	0.61	8.22	0.39
19275678+3601156	2049957756892384256	5635	3.72	-0.51	0.54	0.54	8.46	0.41
19280042+4614069	2126804793521418112	4893	1.61	-2.02	0.21	0.54	6.95	0.41
19281201-2900223	6764699423940862080	4834	1.22	-2.47	-0.17	0.48	6.44	0.18
19281988-6339344	6441410874720278272	5139	2.15	-2.13	0.42	0.43	6.73	0.31
19333143+8023242	2295227331824267136	5462	3.62	-0.20	-0.53	-0.53	7.71	0.04
19352572+5114261	2136022446171534848	4936	4.45	-0.05	-0.57	-0.57	7.81	-0.09
19375420+5750304	2238305511775896064	4898	4.83	-0.56	-0.07	-0.07	7.81	0.08
19383369+4309290	2077979845822635648	5514	4.23	-0.08	-0.53	-0.53	7.82	-0.09

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
19411203-4509560	6684605636852993408	4674	1.35	-2.88	0.02	0.56	6.11	0.20
19423665+0502288	4290628386915732736	4862	1.04	-2.47	-0.23	0.49	6.45	0.45
19433935+7749001	2291495585062080640	4793	1.19	-2.71	0.00	0.64	6.36	0.28
19440238-4515172	6684633743118584064	5211	2.38	-2.38	0.57	0.58	6.63	0.23
19460015-4844202	6671059481799424000	4856	1.93	-1.61	-0.05	0.05	6.87	0.12
19481329-4903448	6670987390771270912	4856	1.59	-2.50	0.10	0.49	6.42	0.37
19491264+0358174	4242240117122573440	5217	4.76	-0.96	0.09	0.09	7.56	0.42
19493291+1245526	4305164750954492032	4982	1.81	-1.95	0.07	0.28	6.75	0.30
19501371-7714505	6365989359218055680	5204	3.50	-1.30	0.31	0.31	7.44	-0.07
19512662-5013221	6669955297247174784	5015	1.92	-1.82	0.11	0.23	6.84	0.06
19523317+4918292	2086984326351707008	5254	4.44	-0.03	-0.41	-0.41	7.98	-0.09
19533677-4832517	6670382182636447104	5101	2.00	-1.88	0.47	0.53	7.08	0.13
19545002+0803021	4298283770977735168	4879	1.45	-2.44	-0.25	0.27	6.26	0.14
19550782+0003520	4237149584437046784	5929	4.00	-0.35	-0.06	-0.06	8.02	0.06
19552158-4613569	6671915382881993472	4893	1.49	-2.45	0.14	0.59	6.57	-0.16
19580641-5217166	...	4709	1.12	0.00	0.00	0.00	0.00	...
19583119+1403473	1807178962362590336	4760	1.15	-2.51	-0.09	0.56	6.48	0.43
20000909-8240204	6347485957207236480	5123	2.05	-2.05	0.57	0.61	6.99	0.00
20015470+1103254	4300772996581672704	5057	4.26	-1.26	0.52	0.52	7.69	-0.03
20021812+0356003	4247387510856965504	4657	3.32	-1.63	0.67	0.68	7.48	0.15
20032253-1142028	4190620966764303488	5323	2.19	-3.45	0.87	0.88	5.86	...
20035532-5028100	6667107184173771648	4854	1.61	-2.58	-0.35	0.03	5.88	0.25
20042821-0634042	4219932228775714816	4698	4.28	-1.80	1.18	1.18	7.81	0.12
20052878-5431260	6473118900280458240	5198	2.05	-2.70	0.36	0.39	6.12	0.12
20065053-0824044	4192486700559707136	5174	2.16	-2.62	0.76	0.77	6.57	0.18
20065112-0135379	4235780417581602304	5031	1.12	-2.25	0.67	1.07	7.26	...
20071356+0151191	4243611826586899200	5666	4.03	-1.10	0.69	0.69	8.02	0.21
20082836+1011584	4299755432926365184	4772	0.89	-2.52	0.13	0.79	6.70	0.38
20083729-1136333	6880822690942721024	5407	4.25	-0.23	-0.01	-0.01	8.20	-0.08
20111053-0042015	4236237642618470272	4735	1.06	-2.19	-0.28	0.41	6.65	0.27
20115949+0328555	4244395262980430592	5346	4.37	-0.24	-0.42	-0.42	7.77	-0.04
20120663-1720171	6873767610163223552	5538	3.99	-0.81	0.60	0.60	8.22	0.09
20121138-5616178	6471798631629401088	5003	0.99	-2.28	0.43	0.94	7.09	...
20121853-1451042	6877707847518537088	4889	1.19	-2.43	-0.15	0.50	6.49	0.26
20124384+0008034	4236447546259730816	4748	4.74	-0.38	-0.31	-0.31	7.74	0.21
20125289+0124185	4242787188566429184	4821	1.09	-2.25	-0.25	0.44	6.63	0.54
20125447-6143094	6442969093151242880	5188	4.59	-0.60	0.00	0.00	7.83	0.33
20145497-0643013	4217089677680862080	4928	1.87	-1.91	0.17	0.32	6.84	0.24
20152495-2220596	6852768686118280576	4914	4.28	-0.91	0.57	0.57	8.09	0.47
20153131-5719468	6468635748993114112	4918	1.44	-2.56	0.04	0.53	6.41	0.02
20160180-0523231	4217535808820767104	5185	1.60	-2.13	0.78	1.03	7.33	...
20160744-0552554	4217300027997089280	5523	4.58	-0.22	-0.21	-0.21	8.00	0.00

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
20165001-1040388	6881177219022208512	5022	4.39	-0.03	-0.23	-0.23	8.17	-0.08
20165024+1403416	1803616579035764992	4810	0.93	-2.70	0.02	0.72	6.45	0.38
20174990-4403599	6673167103853359232	5479	4.73	-0.73	0.22	0.22	7.92	0.34
20180356-1301215	6879502009977573504	4806	1.19	-2.11	0.17	0.68	7.00	0.16
20185485-1428523	6876208079299850752	5207	1.76	-1.87	0.20	0.44	7.00	0.35
20192202-6130149	6430979984003489024	4652	1.50	-2.91	0.07	0.48	5.99	0.35
20194097-2922268	6797560699757276544	6051	3.47	-0.23	0.24	0.24	8.44	0.13
20200915-4813436	6668894268525757696	4911	3.98	-0.14	-0.44	-0.44	7.85	-0.04
20203472-2757112	6846116468972086016	4916	3.55	-1.02	0.30	0.30	7.71	-0.02
20204659-1002234	6905253392633848960	4626	0.80	-2.72	-0.21	0.53	6.24	-0.10
20205529-1340439	6876402624138104576	4635	3.79	-1.03	0.51	0.51	7.92	0.41
20210974-6637116	6425821762641148800	5072	2.00	-2.15	0.42	0.48	6.76	0.20
20214042-5350224	6472730429078350976	5255	4.32	-0.31	-0.21	-0.21	7.91	-0.01
20214109-5550310	6469232749446813824	5224	2.36	-2.03	0.22	0.23	6.64	0.49
20214764-1610513	...	...	...	...	...	...	...	...
20214838-2917466	6797535960745546624	5599	4.61	-0.46	0.78	0.78	8.75	0.42
20231318-0728503	4216093593161355776	4920	1.41	-2.49	0.35	0.81	6.75	-0.04
20231543-2104080	6859284155805054848	4965	1.72	-3.18	0.35	0.53	5.79	0.20
20232260-0807452	6906102627927525760	4685	1.14	-2.13	-0.25	0.39	6.69	0.17
20233743-1659533	6873254241311424896	4848	1.47	-2.61	0.17	0.63	6.45	-0.15
20235225-1628512	6873331791241472768	4855	0.95	-2.69	-0.05	0.66	6.40	0.16
20241045-6720324	6425543307024121088	4703	1.22	-3.93	0.86	1.52	6.03	0.32
20242459-2529550	6848220487550880640	4824	1.50	-2.59	-0.06	0.41	6.26	0.30
20244286-2618599	6847828584672684416	5790	4.28	-0.81	0.72	0.72	8.34	0.44
20244510-1605268	6874849529603646080	4758	1.17	-2.40	-0.23	0.46	6.49	0.12
20255659-4915524	6668166013871841536	5086	4.51	-0.68	0.30	0.30	8.05	0.05
20263268-1025283	6904467555355890304	5177	2.66	-0.73	-0.23	-0.20	7.50	...
20271323-1658595	6862731949391812992	6484	3.86	-0.05	0.44	0.44	8.82	-0.02
20273786-1444546	6875659938390010240	5158	4.51	-0.91	0.14	0.14	7.66	0.36
20273791-2627414	6847786940670450944	5417	4.07	-0.74	0.54	0.54	8.23	0.29
20274485-4223567	6679325159242871808	5513	4.46	-0.41	0.20	0.20	8.22	0.04
20275301-5141137	6475211236547281152	4653	0.92	-2.66	-0.27	0.48	6.25	0.14
20275840-1556595	6874956658968640512	4667	4.74	-0.75	-0.19	-0.19	7.49	0.29
20281482-5351378	6473996241838555392	5266	2.01	-2.41	0.28	0.33	6.35	-0.09
20284544-2638089	6847769863878031616	5893	4.23	-0.88	0.48	0.48	8.03	0.50
20290062-2157354	6855992046192920960	5371	4.02	-0.69	0.47	0.47	8.21	0.38
20290527-5059527	6475303698603197824	5663	3.86	-1.46	0.73	0.73	7.70	0.03
20292008-4513468	6675597235006194432	5019	3.00	-1.10	0.09	0.10	7.43	0.08
20293622-3652218	6694857444613732352	5253	3.86	-0.69	0.06	0.06	7.80	0.34
20301912-2844399	6797804306004518400	5448	4.71	-0.32	0.26	0.26	8.38	0.54
20313318-3054125	6796525780141266304	5621	4.64	-0.72	0.85	0.85	8.55	0.59
20314518-5623277	6469004910021548672	5210	2.15	-2.15	0.69	0.70	6.98	0.14

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
20331212-4200270	6679615950005226240	5249	2.52	-1.97	0.23	0.24	6.70	0.36
20331607-5047126	6475629909958997376	5523	4.53	-0.58	0.09	0.09	7.94	0.11
20351407-4625056	6674758921813508736	4751	2.43	-0.51	-0.71	-0.68	7.24	0.30
20354257-0714557	6907591641550947072	4826	1.18	-2.35	0.06	0.66	6.74	0.03
20373334-3645452	6683227639544432512	4702	3.99	-0.38	-0.46	-0.46	7.59	0.31
20375779-2518252	6800352497219577728	5620	4.65	-0.48	0.90	0.90	8.85	0.52
20381947-2750475	6798666258699212672	5573	3.85	-1.58	1.10	1.10	7.96	0.37
20385050-2657542	6799133551141107712	5536	2.92	-2.52	1.34	1.36	7.27	0.01
20404939-5843259	6455696764877344896	4830	1.24	-2.33	-0.43	0.23	6.33	0.15
20410627-3251350	6792327226270824832	5283	4.66	-0.90	0.46	0.46	7.99	0.20
20414841-5237274	6471501763492187520	4697	1.00	-2.31	-0.28	0.46	6.58	0.19
20430947-3600325	6779175490951538560	5088	2.00	-2.19	0.47	0.53	6.77	0.17
20440973-2940093	6795239665071836160	4965	1.76	-2.23	0.11	0.42	6.62	0.08
20442721-7405038	6369772538209241216	5624	4.24	-0.16	-0.47	-0.47	7.80	-0.05
20443065-2936534	6795263648167892992	5208	4.50	-0.86	0.94	0.94	8.52	0.38
20445501-3732403	6778221802053181824	5187	3.53	-0.14	-0.48	-0.48	7.82	0.04
20451053-2934207	6795077693263710080	5311	1.99	-1.88	0.39	0.46	7.01	0.17
20460102+1506250	1762690140608564480	4488	0.70	-2.12	-0.63	0.10	6.42	0.45
20461039-3940468	6678691295087392640	5116	1.65	-2.51	0.80	1.06	6.97	0.37
20461191-3833114	6681901765961577344	5290	2.60	-1.51	0.45	0.47	7.39	0.23
20465470-3948150	6678675249089470464	5033	1.85	-1.62	0.38	0.51	7.33	-0.01
20474129-4949312	6480909150618081536	4616	1.68	-3.32	-0.49	-0.29	4.83	...
20480642-3520259	6779625977182979328	4906	4.09	-0.23	-0.31	-0.31	7.89	-0.01
20485047-7341446	6370159673678547712	4688	1.09	-2.38	-0.30	0.42	6.48	0.15
20485505-4125356	6678289698465087232	5043	1.38	-2.64	0.04	0.57	6.36	0.11
20490816-2214501	6807184278357672576	4770	1.19	-2.79	-0.08	0.57	6.21	0.01
20492765-5124440	6477616903566840064	4583	0.80	-2.76	-0.06	0.66	6.33	0.16
20504877+1007551	1751382561168000256	4882	4.75	-0.79	0.18	0.18	7.81	0.27
20512785-4843325	6481344866460154880	5031	4.69	-0.28	0.03	0.03	8.18	0.07
20523629-5241033	6477303675894157824	4889	1.39	-2.32	-0.06	0.49	6.60	0.27
20530472-3836380	6774883405575766400	4916	1.53	-2.26	-0.59	-0.10	6.07	0.23
20531334-4520139	6484187516335125760	5194	4.20	0.04	0.00	0.00	8.48	-0.08
20531555+1147415	1757847139781935616	4863	1.33	-2.34	0.17	0.69	6.78	0.43
20541462-4811494	6481473440600905472	5138	1.50	-2.43	0.04	0.51	6.50	0.17
20545308-4710289	6481731516596154368	4645	1.07	-2.49	-0.13	0.57	6.50	0.05
20555702-3912091	6774608463246378880	5033	1.56	-1.85	0.27	0.57	7.15	0.10
20565365-5609461	6457897089506392064	4934	1.68	-2.23	0.32	0.64	6.84	0.11
20571292-4958553	6478163463924318208	5007	1.46	-2.13	-0.02	0.46	6.75	0.25
20574855-4154444	6677344182887180800	5225	4.29	0.00	-0.24	-0.24	8.19	0.01
20575772-5637258	6457695677015968384	4996	2.17	-1.55	0.48	0.50	7.38	0.05
20580267+1427040	1761667216837966848	5026	1.63	-2.06	-0.35	0.03	6.40	-0.20
20585673-4013142	6773745346616608000	5264	4.56	-0.34	-0.89	-0.89	7.20	...

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
20590249+1847021	1765354016765575680	4906	3.17	-1.38	0.69	0.70	7.75	0.11
20592599-4724182	6483013375355411200	4940	4.68	-0.28	-0.10	-0.10	8.05	0.00
20595162-4937337	6478288460356702464	6092	4.10	-0.10	-0.15	-0.15	8.18	-0.06
21011036-4537322	6483420263376508032	5153	2.14	-2.31	0.42	0.43	6.55	0.47
21011096-4148546	6581257453716372352	5048	4.07	-1.41	0.54	0.54	7.56	0.18
21014399-4913588	6478323339786839168	5326	4.62	-0.39	0.15	0.15	8.19	-0.05
21032352-4211400	6581180590980731520	5485	4.37	-0.37	0.24	0.24	8.31	0.09
21032466-7254213	6370267975574142592	4987	1.71	-2.30	0.05	0.38	6.52	0.11
21032961-7321324	6370238112664426624	4731	0.97	-2.40	-0.10	0.60	6.63	0.12
21042794-4710017	6480078194704569088	4863	1.29	-2.05	-0.16	0.38	6.76	0.35
21051884-6831537	6376679571472808064	4668	1.06	-2.84	-0.13	0.59	6.18	0.17
21054066-4520565	6483621714522704128	5092	1.98	-2.55	0.50	0.56	6.44	0.10
21080234+1835409	1788340995265967488	5078	4.62	-1.04	0.52	0.52	7.91	-0.06
21091442-4721520	6480023214826621696	4810	2.23	-0.81	-0.65	-0.63	6.99	0.44
21092218-4250491	6580163542725955840	4713	0.92	-2.11	-0.44	0.26	6.58	0.44
21094841-5600060	6463024322681098368	5175	2.06	-2.36	-0.27	-0.25	5.82	0.39
21095801+1725439	1788003032879354752	5132	2.21	-2.50	0.48	0.49	6.42	0.40
21102133+3016061	1852687405024593024	5044	4.70	-0.79	0.35	0.35	7.99	0.43
21105535+2140380	1790165875330692352	5147	4.72	-0.98	0.12	0.12	7.57	0.38
21110533-4239222	6580263048527430400	4778	1.22	-2.13	-0.29	0.33	6.62	0.00
21111175-4126536	6581456534040000128	5120	1.92	-1.96	0.56	0.66	7.14	0.00
21114008-5138220	6476892256683323008	5307	2.35	-1.93	0.65	0.66	7.16	...
21115127-5257071	6464688708407259008	5164	2.56	-1.32	0.26	0.28	7.39	0.13
21120163+2520001	1841468911788506112	5194	3.95	-0.98	0.27	0.27	7.72	...
21125173+2110327	1790077841384173312	4981	1.03	-2.53	-0.15	0.56	6.46	-0.10
21134390-6802355	6399985335331112064	5140	1.87	-2.73	0.73	0.83	6.54	0.05
21145602+2112242	1791382721170477824	4896	1.58	-2.29	-0.04	0.41	6.55	0.46
21150824+2631245	1847680160351457024	5423	2.28	0.00	0.00	0.00	0.00	...
21151790-4333404	6579952677010742272	5018	1.57	-2.54	0.38	0.76	6.65	0.11
21154971-6848520	6375872461218303488	5041	1.38	-2.36	0.10	0.62	6.69	0.26
21171659-4115323	6580773015762728704	4982	3.20	-0.87	-0.38	-0.37	7.18	0.40
21190273+3318462	1854629726683249024	5194	1.81	-2.11	-0.10	0.11	6.43	0.21
21192932-7715553	6356252535213950592	5395	2.14	-2.25	0.82	0.83	7.01	0.20
21203573-5321426	6463751271665659264	5089	2.18	-1.93	0.43	0.44	6.94	0.37
21211669+2032551	1790500809763786624	5164	4.51	-0.07	-0.21	-0.21	8.15	-0.05
21214670+1916532	1785668323017152384	5070	3.77	-0.98	0.09	0.09	7.54	0.10
21232828-5328287	6463713682111820160	5110	2.65	-1.39	0.25	0.27	7.31	0.31
21240060-5241520	6465286018099447680	5089	2.54	-1.32	0.17	0.19	7.31	0.26
21243758-6400120	6403279953204895360	5152	3.59	-0.34	0.06	0.06	8.14	0.03
21254398-6753045	6399850542078013568	4870	4.69	-1.00	0.31	0.31	7.74	0.14
21262879+1749436	1784515446419862656	5304	3.72	-0.12	-0.55	-0.55	7.76	0.00
21263180+2031469	1790358392944627712	4745	1.08	-3.04	0.04	0.76	6.15	0.45

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
21281884-6406460	6403090356168392192	4858	1.60	-2.66	-0.05	0.32	6.10	-0.04
21292831-5558258	6460174865281654144	4908	4.05	-0.65	-0.37	-0.37	7.42	0.13
21313828-6858199	6396651616076109184	5017	1.53	-2.79	0.48	0.86	6.51	0.25
21322880-6607539	6400620298999247488	4499	4.58	-1.47	-0.12	-0.12	6.85	0.36
21323054+1600097	1772048878641647488	5228	2.54	-1.99	0.41	0.42	6.86	0.40
21340283-6224209	6403844758583266688	4888	3.03	-3.54	0.11	0.11	5.00	...
21343861+1538156	1771832962045862656	5026	4.80	-0.74	0.10	0.10	7.79	0.15
21351702-5533118	6460110479427930624	5112	1.79	-1.66	0.00	0.21	6.98	0.28
21373999-2446495	6814831136913490048	4931	4.67	-0.68	0.22	0.22	7.98	0.06
21391225+3849406	1953863502940549504	5333	4.81	-0.43	-0.05	-0.05	7.95	0.18
21393394-5845548	6458363870847393792	5014	1.99	-2.43	0.23	0.29	6.29	...
21414000-2854239	6809748884932883712	4870	1.67	-1.94	-0.05	0.27	6.76	0.27
21430664-6338509	6402785069892389760	5348	4.43	-0.11	-0.03	-0.03	8.29	-0.03
21440820+3813139	1952857308060989312	5023	1.86	-1.53	-0.35	-0.16	6.75	0.04
21445442-6319381	6402818531980755584	4847	3.64	-1.40	0.79	0.79	7.83	0.04
21453847+2351116	1794596868534480128	5189	1.98	-2.51	0.47	0.54	6.46	0.33
21461136-5420472	6461349457233919872	4637	4.66	-0.65	-0.43	-0.43	7.35	0.21
21480606+4643071	1974610531448247936	4772	2.89	-1.46	0.39	0.41	7.38	0.04
21482057+2155222	1793330952694172416	5485	4.08	-0.91	0.39	0.39	7.91	0.01
21494865+1048431	1765600930139450752	5155	2.12	-2.13	0.39	0.40	6.70	0.46
21502426-6105576	6409890217109702784	4668	1.24	-2.45	-0.26	0.40	6.39	0.33
21510307+3619543	1949409175177462272	4807	1.23	-2.27	-0.15	0.48	6.65	0.46
21513710-7925459	6355014691279286400	5465	3.42	-1.45	0.58	0.58	7.56	0.05
21515415+0537172	2697022209558112768	4757	1.49	-2.01	-0.31	0.16	6.58	0.49
21525027-6604240	6398934786330198784	5109	2.70	-0.36	-0.52	-0.49	7.58	0.15
21555532+3501402	1948312515407711104	5035	1.92	-1.95	0.07	0.19	6.66	0.26
21573551-0308043	2670534149811033088	5301	2.54	-1.90	0.68	0.69	7.23	0.15
21573761+3544196	1948748437403259776	4901	4.84	-0.72	0.02	0.02	7.72	0.11
21584417+0052490	2681491607815613952	5277	2.65	-2.05	0.43	0.44	6.82	0.11
21584491+0129524	2681597607608087040	4616	0.49	-2.65	-0.05	0.66	6.45	0.20
22013669-6918312	6396019706127003520	4795	1.77	-2.02	0.12	0.38	6.78	0.35
22032935-5635128	6412646138709077888	4907	1.47	-2.20	-0.16	0.33	6.56	0.40
22040352+0016519	2680470706974136192	4725	1.07	-2.36	-0.30	0.43	6.50	0.35
22043661-6044348	6409307304149253248	5224	2.47	-2.03	0.28	0.29	6.69	0.18
22044480+4148205	1959828147361822848	5459	4.70	-0.65	0.31	0.31	8.09	0.06
22050237+3107332	1898564081014685184	5464	4.19	-0.87	0.27	0.27	7.83	0.16
22082896-6607320	6399063394830844544	5166	1.56	-2.34	-0.03	0.45	6.54	0.34
22104990-3947023	6573266443723504768	5161	2.20	-2.55	0.54	0.55	6.43	-0.07
22112456-3753100	6574080735161542784	4820	0.94	-2.20	-0.47	0.26	6.49	0.25
22115350-1209181	2612971211403496832	5030	1.46	-2.27	-0.15	0.36	6.53	0.07
22120815-4215210	6569918602615687808	5158	2.19	-1.91	0.34	0.35	6.87	0.23
22125424-0235414	2675834650555144576	5406	2.90	-2.21	0.56	0.57	6.79	0.24

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
22125459-0408594	2627229884351014144	4881	1.49	-2.46	0.16	0.61	6.57	0.25
22140658-0016065	2678634350759886336	4666	4.28	-0.62	0.06	0.06	7.87	-0.10
22165631-1154207	2612857755547023232	5448	4.26	-0.35	0.06	0.06	8.14	-0.09
22211976-4111021	6569481855982624640	4885	1.42	-2.49	0.06	0.57	6.51	-0.13
22213981+3725402	1906965002686762496	5447	3.65	-1.04	0.18	0.18	7.57	-0.05
22221878-7406283	6357952517629300352	4810	1.32	-2.18	-0.20	0.39	6.65	0.27
22224538+3555471	1905936405260048384	4879	1.23	-2.22	-0.35	0.29	6.50	0.35
22224859+2804264	1881899328730042368	5144	2.10	-2.16	0.43	0.45	6.73	0.46
22225487+2954084	1894651090929156096	5248	4.56	-0.98	0.06	0.06	7.51	0.18
22234372-8627533	6342106630928779392	4631	4.36	-0.59	-0.57	-0.57	7.28	0.00
22235096-6512086	6404249993041212928	5470	4.65	-0.84	0.24	0.24	7.83	0.35
22241668+2548128	1879125024671706624	5651	3.83	-1.36	0.63	0.63	7.70	-0.01
22241984+2430382	1878702846566493440	5415	2.57	-0.32	-0.37	-0.34	7.78	0.35
22244368+3236401	1901779602770732032	4898	3.75	-1.50	0.42	0.42	7.34	-0.02
22251594+2911332	1894379923873649536	5205	1.57	-2.76	0.00	0.39	6.06	...
22280812+3546524	1905786459361887488	4750	4.38	-1.32	0.53	0.53	7.64	-0.06
22284549-4124119	6593293356532115712	4992	4.59	-0.64	0.08	0.08	7.86	0.12
22290341+3954145	1909092729485051776	5531	3.03	-1.08	0.51	0.53	7.88	0.44
22293323+4332048	1981952760850101376	5109	2.20	-2.74	0.47	0.48	6.17	0.25
22294083-3305402	6600574876582217344	4909	1.41	-2.70	-0.07	0.46	6.19	-0.15
22303946-1809055	2594309161890648320	4716	4.70	-0.37	-0.22	-0.22	7.84	0.18
22310829+3023018	1900531824573844608	5396	4.23	-0.12	-0.61	-0.61	7.71	-0.07
22311433-6656572	6386075551166390144	4764	1.24	-2.09	-0.11	0.46	6.80	0.17
22315231+2320202	1875411630307299456	6294	4.18	-0.76	0.54	0.54	8.21	-0.13
22342447+2739353	1881261994239589888	5093	3.06	-0.82	0.14	0.15	7.76	0.38
22345447-6605172	6392134513070641408	4951	1.48	-2.80	0.10	0.55	6.18	-0.17
22354139-4305549	6520905878946665344	4950	1.43	-2.85	-0.16	0.36	5.94	0.14
22355721-2434108	6623904314300239488	4748	4.64	-0.95	0.31	0.31	7.80	0.06
22360602+3930413	1908318669000212480	5279	3.71	-0.25	-0.36	-0.36	7.82	0.02
22364074-7026524	6384994623861077376	5827	4.12	-1.24	0.61	0.61	7.80	0.27
22373316-4341181	6520826714109323392	5176	2.37	-2.14	0.18	0.19	6.48	0.14
22401067-3738259	6595625729931613568	4863	1.44	-2.58	0.04	0.53	6.38	0.21
22412632-3627304	6596002145160945664	5005	1.65	-2.31	-0.03	0.35	6.47	0.39
22413573+2931038	1887539965117822464	5193	4.32	-0.44	0.31	0.31	8.30	0.57
22432022-7547340	6357547759911189120	5877	3.78	-0.85	0.77	0.77	8.35	0.09
22451263+3532066	1903656636619168768	4749	1.24	-2.19	-0.29	0.32	6.56	0.33
22453503+1301210	2731609959149919360	4990	1.31	-2.88	0.10	0.67	6.21	0.49
22454796+2826260	1887186850086385152	5128	4.13	-1.25	0.44	0.44	7.63	-0.12
22471965-7201440	6382433144021702656	5595	3.90	-0.43	-0.23	-0.23	7.77	0.02
22472643+3532411	1903562838830927744	5230	4.65	-0.33	-0.09	-0.09	8.01	0.04
22473447-5511534	6505905757201226368	5627	3.81	-1.40	0.62	0.62	7.65	0.01
22474545+2517113	1876790894628571264	5056	4.33	-1.04	0.32	0.32	7.72	-0.09

(continued)

Table 3 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
22481449-5703067	6504026829267642240	5512	3.00	-1.93	0.27	0.28	6.77	0.18
22490353-5536242	6505879059684460032	5125	4.57	-0.49	0.08	0.08	8.02	0.15
22492811-5717202	6503988105842414464	5418	4.07	0.09	-0.43	-0.43	8.10	0.00
22511876-3814381	6547694891340666752	5112	2.22	-2.06	0.47	0.48	6.85	0.16
22512739-5049405	6513929237145370880	5055	1.65	-1.88	-0.13	0.20	6.75	0.20
22531950-6647163	6391157150312476032	4673	0.93	-2.48	0.42	0.98	6.93	-0.04
22534476-5456485	6506123701021637888	5295	3.07	-1.45	0.15	0.16	7.15	0.30
22534538+7919586	2285728337337892480	4938	4.86	-0.62	0.01	0.01	7.82	0.10
22544750-3509160	6554282379035795840	4577	4.57	-0.83	-0.56	-0.56	7.04	0.33
22575548-5622538	6493611254400172416	4833	1.68	-2.30	0.10	0.46	6.59	0.13
22591090-4829425	6515325616912384256	4976	1.57	-2.05	-0.08	0.32	6.70	0.08
22594336-3819324	6546814427341069568	4900	4.29	-1.05	0.24	0.24	7.62	0.29
23003637+2820257	1885059776122105728	5261	4.55	-0.86	0.11	0.11	7.68	0.39
23022817-4059099	6543252452048113152	4912	1.78	-1.80	0.10	0.32	6.95	0.29
23035329-4139482	6543169129682052608	5107	1.86	-2.02	0.03	0.19	6.59	0.03
23043022+0155166	2652540916900514304	4891	1.68	-2.36	0.07	0.42	6.49	0.09
23044868-4311029	6541868716664047744	4594	4.22	-0.32	-0.80	-0.80	7.32	...
23055841-8636001	6341894558326196480	4633	3.82	-1.14	0.19	0.19	7.49	-0.15
23064708+2802027	1884897937457948672	4798	4.54	-1.50	0.03	0.03	6.96	0.44
23083044-7441319	6378503729982312576	5006	1.91	-1.77	0.22	0.34	7.00	0.18
23085453-5226130	6500818969734685440	4993	3.88	0.05	-0.05	-0.05	8.42	-0.15
23093209-7132507	6381003327932886144	4888	1.40	-2.38	-0.37	0.19	6.24	0.23
23100319-7702165	6354182945092770176	4778	1.28	-2.75	0.09	0.67	6.35	0.05
23123243-0240516	2638139066923296128	4824	4.38	-0.24	-0.43	-0.43	7.76	-0.11
23124700+2701045	2845306436489791232	5153	4.41	-0.30	0.37	0.37	8.51	0.44
23130418-4332060	6541663554666433920	5010	1.76	-1.75	0.19	0.39	7.07	0.45
23131220+5425552	1996424051866554112	4751	3.17	-1.41	0.45	0.46	7.48	0.02
23133742-5336585	6500438435631474560	4509	2.48	-1.58	0.62	0.64	7.49	0.08
23164530-4047253	6548299386513340288	4963	4.58	-0.84	0.12	0.12	7.71	...
23235454-4730233	6526777614634204672	4870	2.45	-1.62	0.99	1.01	7.82	...
23273196+5438201	1995911404570328192	6154	4.22	-0.80	0.64	0.64	8.27	0.45
23293844+3337097	2872688983306031616	4953	1.52	-2.96	0.30	0.71	6.17	0.39
23321307+1950398	2824757388800259840	5028	4.40	-0.35	0.32	0.32	8.40	0.39
23341995+4703450	1938499679067388288	5357	3.71	-1.30	0.38	0.38	7.52	0.01
23362842-5537423	6496310731541441152	5178	1.43	-1.97	0.35	0.70	7.16	...
23371202+2100145	2826450808506230016	4447	4.40	-0.54	-1.08	-1.08	6.81	0.02
23400099+4959092	1943744250753474944	5232	2.76	-2.79	0.55	0.56	6.19	0.14
23421250-6346584	6485737793369175680	5008	4.19	-1.06	0.62	0.62	7.99	0.09
23430472-8200221	6350719930141819520	4977	4.48	-0.62	0.37	0.37	8.18	0.05
23433753+5008599	1943761190104941824	7429	4.52	-0.07	1.20	1.20	9.56	0.29
23450930+5538498	1994885560221975552	4600	2.23	-1.89	0.61	0.62	7.16	0.00
23465497+1201211	2763718305727188480	5029	4.67	-0.83	0.37	0.37	7.97	0.26

(continued)

Table 3 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	T_{eff} (K)	$\log g$ (cgs)	[Fe/H]	[C/Fe]	[C/Fe] _c	$A(\text{C})_c$	[Mg/Fe]
23472384+4835469	1940559103007605120	4795	1.16	-2.02	-0.17	0.42	6.82	0.43
23505349+1142348	2766637307235175296	5235	1.87	-2.05	-0.05	0.11	6.48	0.38
23550005+1255039	2766874664308017408	4644	4.77	-1.28	0.11	0.11	7.26	0.12
23555398+5702462	1998062118035485056	5458	3.87	-0.27	-0.23	-0.23	7.93	-0.03
23560245+1109200	2765621221052354816	5080	4.38	-0.40	0.32	0.32	8.36	0.44
23562635+0651168	2746230337064331776	4958	4.14	-1.40	0.58	0.58	7.61	-0.10
23563722+4615436	1927134439687586560	4161	3.23	-1.72	0.64	0.65	7.35	...
23564530-4429484	6532542491534291968	5127	4.70	-0.31	-0.07	-0.07	8.05	0.10

Table 4. Phase-space Information from Gaia EDR3

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
00003305-7953389	4634573766005607552	269.3	2.51	0.06	-4.538	-4.538	-1.48	274.3
00020162-4430117	4994519032163925632	58.5	3.13	0.19	14.656	14.656	-2.92	202.6
00040305-6106367	4905632480654004608	-6.0	0.12	0.00	53.448	53.448	-0.07	15.7
00043646+4124062	384060304935385984	-13.7	1.01	0.01	-7.058	-7.058	-0.33	28.8
00045403+3524010	2876804519751163008	-91.5	1.06	0.02	9.525	9.525	-0.45	154.2
00052731+0025510	2546113345293028608	-2.9	0.19	0.01	-9.668	-9.668	-0.14	41.4
00060902-6238019	4904480471642380928	65.5	5.74	0.41	-4.387	-4.387	-4.60	198.3
00071189+4724466	393031258963415936	13.4	0.15	0.01	74.884	74.884	-0.01	74.5
00111339+0152512	2546752127188959232	176.0	3.36	0.19	4.350	4.350	-2.87	288.9
00140089+3148167	2861747777456341120	...	0.80	0.01	-14.106	-14.106	-0.38	45.5
00144636-2246093	2361100512255883904	10.7	0.77	0.01	22.865	22.865	-0.73	101.1
00150914-3736048	2308246644711975680	...	0.26	0.01	34.186	34.186	-0.22	43.3
00152923-2436237	2336022438732700672	-17.0	0.11	0.00	190.327	190.327	-0.08	93.4
00152952-6121258	4904881106191486592	68.5	6.67	0.63	4.618	4.618	-5.46	109.1
00154806-6253207	4901504815220315648	207.8	2.26	0.06	25.055	25.055	-1.80	259.1
00162809-0505519	2443891577459590016	-173.5	2.28	0.09	29.212	29.212	-2.06	391.8
00163655+3538314	2876439211309388672	-9.7	1.88	0.09	13.297	13.297	-0.82	188.4
00163809-4912369	4977077135617904640	241.5	6.12	0.58	3.195	3.195	-5.61	274.5
00165353+3642326	2876647328245159552	-87.6	3.90	0.24	5.221	5.221	-1.66	148.5
00170767+4614488	392109932642310272	24.3	0.68	0.01	23.695	23.695	-0.16	59.4
00175076-6819295	4706413931618489600	200.6	5.11	0.27	0.792	0.792	-3.80	401.9
00182947-7829325	4635466706886248448	62.1	0.22	0.01	-9.678	-9.678	-0.11	62.5
00192284+4431554	385734487485292928	10.2	0.09	0.00	15.571	15.571	0.00	21.6
00202312-3950260	4997141779713479680	12.8	0.08	0.00	-28.842	-28.842	-0.06	41.8
00213396+0008219	2545302077511395968	71.2	...	...	...	...	0.03	71.2
00223511-4231148	4992150679821873664	-52.3	3.22	0.14	0.676	0.676	-3.06	293.1
00234358-1117357	2424691974134738816	20.0	0.24	0.01	6.954	6.954	-0.21	93.3
00235345-6649211	4707128682896207872	2.4	1.00	0.01	27.544	27.544	-0.74	51.9
00241677+2941440	2858965188404148480	...	0.74	0.01	2.487	2.487	-0.38	22.1
00275509+3458068	365999795656991616	-222.1	3.19	0.19	8.430	8.430	-1.46	253.2
00281899-6820268	4703742084003326080	299.3	6.23	0.39	1.197	1.197	-4.65	327.5
00293797+2103054	2796582811359131392	...	2.77	0.15	43.194	43.194	-1.81	564.7
00301775+2957334	2858881625520606848	-404.2	3.80	0.17	6.526	6.526	-2.03	495.0
00303445+2816193	2857835710788936832	22.8	0.11	0.00	66.853	66.853	-0.04	40.0
00311900+4957158	391597358363860608	2.1	0.25	0.01	7.126	7.126	-0.03	11.7
00325147+4107490	381063654713703040	-394.7	2.64	0.10	-5.534	-5.534	-0.95	398.7
00331311+2033190	2796309861892160384	9.8	...	...	...	...	0.03	9.8
00341417-3943068	4994368227272214784	250.1	3.24	0.16	13.041	13.041	-3.13	294.0
00342795-2413107	2348080164279166208	3.1	0.13	0.00	-51.758	-51.758	-0.10	33.5
00351869-2854190	2319002587146050304	37.2	0.20	0.00	112.358	112.358	-0.17	99.4
00354136+1618228	2780880960680375808	-41.0	0.18	0.00	44.539	44.539	-0.10	59.7

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
00370433+4341208	387703815888550656	-33.6	6.63	0.91	2.657	2.657	-2.15	83.1
00370966-4224102	4992914501101243264	-14.3	0.14	0.00	-43.446	-43.446	-0.11	97.9
00374809-2751193	2343095974991737600	7.8	0.12	0.00	104.044	104.044	-0.09	56.0
00400685-4325183	4980747129334018944	47.1	7.70	0.79	3.057	3.057	-7.36	320.7
00410089+3633397	365840847508048384	-153.9	3.18	0.11	5.212	5.212	-1.38	248.6
00410467+1649478	2782313903504860032	-57.9	0.54	0.00	8.886	8.886	-0.37	141.9
00425182+1925361	2795241995584048000	4.7	1.68	0.04	35.604	35.604	-1.13	291.1
00433651-2719379	2343181981712123520	21.8	0.13	0.00	151.268	151.268	-0.10	83.4
00435264-2132285	2350389894612060544	67.4	2.70	0.12	19.345	19.345	-2.66	269.3
00452879-5846450	4906911251332870144	187.9	2.33	0.06	-16.287	-16.287	-1.96	332.4
00463619-3739335	50007531943373767424	48.3	4.06	0.26	15.259	15.259	-3.97	278.9
00482546-7441092	4685477782827620992	15.6	1.27	0.02	4.258	4.258	-0.83	17.4
00482715-8224023	4629945985987660416	139.1	3.47	0.10	6.495	6.495	-1.95	145.8
00504527-6351504	4709709305405862656	-33.1	7.69	0.57	2.040	2.040	-6.13	238.8
00510748-7809118	4635149768362820096	-0.5	0.18	0.00	36.727	36.727	-0.09	8.5
00521010-6006097	4903551070783622528	6.0	0.11	0.00	-2.542	-2.542	-0.06	6.9
00522310-5804087	4907332914042242304	3.4	0.52	0.00	18.114	18.114	-0.42	26.0
00523111+3758286	367656523458156544	-236.2	1.55	0.03	1.710	1.710	-0.63	295.8
00582707+0633561	2553447805108682496	4.6	3.62	0.23	5.477	5.477	-2.99	98.6
00594615+1223173	2584343227151274752	-9.4	0.16	0.00	-14.409	-14.409	-0.10	32.4
01021265+0428241	2551971405806340096	-172.8	5.42	0.79	9.874	9.874	-4.59	452.2
01024809+4300486	376344555103575808	-21.9	0.93	0.02	-0.255	-0.255	-0.29	23.3
01031767+0908145	2581189278047060224	-20.3	3.09	0.21	8.386	8.386	-2.46	145.9
01033338-7410471	4684860888081427840	5.0	0.17	0.00	10.983	10.983	-0.09	12.4
01040440+0504477	2552119633717667584	-20.5	0.12	0.00	-16.251	-16.251	-0.07	34.3
01042513+4011391	371347102956265728	17.9	0.22	0.00	-8.887	-8.887	-0.06	33.3
01042908+0755213	2578034366869468800	3.6	0.19	0.00	-10.960	-10.960	-0.13	39.7
01051545-0041328	2533223147709485312	5.2	0.12	0.00	29.517	29.517	-0.08	37.4
01065190-5244105	4927175937828177280	...	8.55	0.82	9.022	9.022	-7.68	238.3
01132198-6139522	4710458244623085184	...	0.66	0.00	4.926	4.926	-0.51	11.3
01200289-0158201	2533312006288169600	83.1	0.74	0.01	30.210	30.210	-0.64	162.9
01250922-5614027	4910744423745801472	...	8.34	0.78	2.353	2.353	-7.22	269.7
01253364-4148345	4984027698370924672	...	0.43	0.00	0.256	0.256	-0.39	44.0
01253802-2911025	...	32.2	...	...	...	...	...	...
01291742-7139220	4687775246726470144	208.4	7.12	0.51	1.975	1.975	-5.03	338.1
01311599-4016510	5008222486100643200	-58.2	2.24	0.08	8.840	8.840	-2.13	295.6
01315199-6547540	4710799574264331904	-33.9	0.35	0.03	99.318	99.318	-0.25	121.0
01323787-1530302	2451901038631956224	63.5	0.24	0.00	1.760	1.760	-0.20	182.7
01363655+5451319	409152813849385216	0.7	0.18	0.00	16.368	16.368	0.00	14.2
01372246-4611110	4931138955692103424	100.5	1.97	0.04	8.330	8.330	-1.81	182.4
01373378-6921368	4691261969896942848	53.7	0.13	0.00	-84.055	-84.055	-0.07	57.4
01382048-7637319	4636801853303548416	134.8	1.16	0.01	4.982	4.982	-0.72	201.7

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
01390079-7811248	4633446629147784320	330.2	4.88	0.25	10.324	10.324	-3.02	362.4
01394297-1615477	2452308064092390784	-220.1	3.98	0.24	7.862	7.862	-3.80	406.1
01430726-6445174	4710973567683306624	162.6	5.17	0.29	11.803	11.803	-4.02	234.6
01481644-5717024	4718885485854328064	-85.4	1.77	0.03	-5.596	-5.596	-1.48	343.2
01481836-6022102	4717520854484700288	...	0.29	0.00	-20.484	-20.484	-0.21	20.3
01512909-5049125	4940475493039087872	...	10.56	1.25	9.844	9.844	-9.44	316.4
01532990-7617103	4636731828156259712	181.1	3.55	0.14	13.921	13.921	-2.27	191.1
01535484+4743406	357061938652034816	...	0.30	0.00	9.471	9.471	-0.05	21.9
01541382-4927292	4940875062436326784	9.4	2.83	0.08	8.951	8.951	-2.53	193.8
01542953-4953166	4940665261873824640	-34.8	5.21	0.30	4.610	4.610	-4.66	125.4
01555066-6400155	4699467590815290368	240.0	4.40	0.23	11.492	11.492	-3.42	352.4
01555808+5040276	359446465839056512	-15.6	0.16	0.00	26.903	26.903	0.00	25.0
01570453-6511318	4699066135928244224	-4.0	1.19	0.02	9.354	9.354	-0.89	61.7
01585657-1624249	5141897776909177856	-7.5	0.83	0.02	17.531	17.531	-0.76	99.5
01592159+8341476	572808964949945088	-2.6	0.21	0.00	0.883	0.883	0.10	34.4
02002105-2520170	5121763691780187008	46.9	0.69	0.01	30.965	30.965	-0.64	118.2
02002992+5657571	505258239019253760	22.6	0.88	0.06	4.403	4.403	-0.05	38.8
02013041-0949339	2462500536881830528	213.0	2.03	0.09	22.264	22.264	-1.83	321.7
02020691-8507254	4616783629211669888	7.8	0.16	0.00	9.187	9.187	-0.06	13.1
02023240+5535052	504560598882408960	-4.2	0.26	0.01	20.266	20.266	0.00	21.0
02062328-0718389	2487426224965026688	...	0.26	0.00	-22.845	-22.845	-0.20	98.4
02091623-2825011	5117222021562768256	64.6	4.03	0.24	17.853	17.853	-3.82	352.9
02121057-2136569	5124244804192255104	-6.7	3.00	0.13	7.289	7.289	-2.80	128.6
02131127-3617490	4965179285932359552	9.7	0.17	0.00	26.291	26.291	-0.14	28.3
02143996-2731561	5116644773662434176	-0.5	0.16	0.00	-23.539	-23.539	-0.13	17.5
02151298+4941500	355587661060325120	...	0.32	0.00	17.132	17.132	-0.04	20.0
02165682+4443112	352161380966711936	15.5	0.12	0.00	-8.012	-8.012	-0.01	23.5
02165716-7547064	4637170571951777280	-6.1	4.55	0.23	-3.316	-3.316	-2.91	37.8
02184236-5351323	4743265369493805696	-45.1	0.21	0.00	-3.544	-3.544	-0.15	48.2
02184254-6111160	4701711045508666112	159.4	2.05	0.05	33.257	33.257	-1.61	228.7
02194944-2701309	5117093275622914688	44.0	0.49	0.00	14.825	14.825	-0.44	53.7
02200131-5909599	4738094228868954496	...	0.09	0.00	19.189	19.189	-0.05	14.2
02200416-3505332	4966846038184021888	-17.0	3.74	0.17	6.072	6.072	-3.48	206.6
02202248-3221349	4970735118186763520	43.5	0.17	0.00	70.075	70.075	-0.14	74.5
02205873-6708044	4696223279895236992	-70.4	4.61	0.25	10.768	10.768	-3.38	252.0
02215591-1414291	5146733910084621440	...	...	...	...	...	0.03	0.0
02230945+3819551	331739842266523264	-5.1	0.17	0.01	16.461	16.461	-0.04	23.3
02234760-4630467	4940121690813101056	138.2	1.98	0.04	12.889	12.889	-1.75	199.1
02242892+7959144	562642266262613504	25.1	0.14	0.00	239.113	239.113	0.07	39.5
02243601-3101131	5066948639089274496	23.2	0.26	0.02	7.840	7.840	-0.22	32.3
02255030-7822010	4632830898340209920	66.1	1.62	0.03	0.690	0.690	-0.97	101.5
02260082-2250455	5120483443633370496	101.1	0.65	0.01	27.400	27.400	-0.58	136.6

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
02263468-7052018	4645240501967006720	...	6.24	0.42	4.656	4.656	-4.33	334.5
02263472-1610120	5145471979973495040	2.9	0.13	0.00	75.713	75.713	-0.09	62.1
02263559-6118229	4701661876723001088	223.7	7.99	0.86	1.870	1.870	-6.30	232.4
02265573-3957537	4951576334231196160	20.2	3.43	0.14	6.183	6.183	-3.12	212.9
02272940-1844371	5131351909915040640	5.2	0.56	0.01	9.690	9.690	-0.49	29.8
02281118+3107248	132459372685231872	24.0	...	...	...	...	0.03	24.0
02284342+8235565	569513114421444480	...	0.56	0.00	-4.274	-4.274	0.22	1.7
02295644-7231067	4643772207267807104	-28.5	0.26	0.00	17.933	17.933	-0.15	63.3
02302280-1713235	5133294712601873024	...	0.17	0.00	-12.634	-12.634	-0.13	13.1
02302823+3146355	134052560743210624	...	0.20	0.00	16.616	16.616	-0.06	45.8
02314914-4251147	4950048081786940160	16.5	0.12	0.00	29.764	29.764	-0.08	22.9
02322533-2955268	5067349028825362176	26.8	0.22	0.00	19.293	19.293	-0.18	34.1
02332987-2602004	5070849431466425600	...	0.11	0.00	80.899	80.899	-0.08	55.9
02335901-5218323	4744814203419011456	55.1	0.11	0.00	98.925	98.925	-0.07	63.2
02343390-3438203	5062336050373022976	21.8	0.60	0.01	-9.000	-9.000	-0.52	35.8
02345434-3349391	5062448200558971136	113.0	6.72	0.52	2.169	2.169	-6.16	306.9
02361077-1202559	5171442680844060160	150.9	2.93	0.16	19.595	19.595	-2.54	369.3
02371057-4036121	4951834822543543040	...	0.21	0.00	6.449	6.449	-0.17	24.8
02372192+4302214	340142202749502464	...	0.35	0.00	-6.867	-6.867	-0.07	8.6
02384449-3325102	5062531071950987392	50.5	2.70	0.11	9.318	9.318	-2.44	160.9
02394381-3631306	4953863662014601216	23.7	0.37	0.00	16.298	16.298	-0.31	35.0
02401392+2556291	126323578110142848	11.1	0.22	0.00	5.150	5.150	-0.09	19.2
02404390+4457499	340915713477131008	-21.2	0.22	0.01	-9.164	-9.164	-0.03	22.9
02425864-3709379	4953584523499875712	152.3	1.72	0.03	9.897	9.897	-1.52	176.5
02431746-8608453	4613478261037323776	0.0	6.66	0.52	1.146	1.146	-3.36	115.2
02435125-2942551	5065856377366623872	5.8	0.12	0.00	-4.724	-4.724	-0.08	10.3
02451977+1332222	31933391083889152	-23.8	2.55	0.10	19.962	19.962	-1.64	295.5
02462323-3137296	5064607984993521792	12.8	0.20	0.00	-9.950	-9.950	-0.16	15.8
02471497-6303000	4721297363392975488	56.1	0.59	0.00	5.156	5.156	-0.42	59.1
02494852-2229202	5077735500993403648	124.8	0.12	0.00	66.542	66.542	-0.08	135.3
02501156+3457476	140083622534201088	...	0.18	0.01	20.274	20.274	-0.04	14.0
02512543+8333571	569663953674510464	...	0.20	0.00	63.748	63.748	0.10	72.0
02523341-4416060	4755176207159038080	71.4	9.43	1.16	-0.018	-0.018	-8.17	185.0
02525369+2107466	109283900954164992	36.7	0.14	0.00	121.112	121.112	-0.05	89.9
02525416-3228483	5052264558220148352	30.8	...	...	...	...	0.03	30.8
02532757-3454050	5049605732946898432	37.9	2.93	0.10	6.447	6.447	-2.59	86.8
02533614-6234511	4721372684235614848	125.7	1.77	0.04	19.840	19.840	-1.32	156.6
02564805-1942473	5128076774013414912	19.2	0.17	0.00	7.097	7.097	-0.12	20.6
02571027+3318455	136508702211948672	22.9	0.15	0.00	23.347	23.347	-0.03	27.3
02580877+0829424	8791969854015488	47.1	0.22	0.00	19.669	19.669	-0.12	53.4
02590016-7209504	4645469170322185984	...	0.16	0.00	78.043	78.043	-0.08	60.0
03042561+3112028	135287316592202880	...	0.18	0.00	17.415	17.415	-0.05	30.8

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
03042843-3406046	5050991770433282688	122.5	2.86	0.10	4.617	4.617	-2.47	307.8
03044130-3635405	5047482782152551808	27.9	0.23	0.00	20.603	20.603	-0.17	36.8
03053573+2834227	115967213665888000	-36.5	2.08	0.08	30.401	30.401	-0.88	343.9
03060595-5251430	4746980344406420736	92.9	1.86	0.04	16.988	16.988	-1.49	169.8
03080797+3836489	142648478221664256	...	0.33	0.00	16.552	16.552	-0.07	35.3
03091996-5853578	4724087928200048768	...	0.23	0.00	36.367	36.367	-0.15	37.3
03095592-0459281	5182694120770155264	25.2	0.09	0.00	-7.807	-7.807	-0.04	43.0
03104602+4514503	433115020506112512	19.9	0.11	0.00	210.154	210.154	0.00	98.4
03121034-5703094	4727345712434297984	...	11.20	1.40	6.794	6.794	-8.69	196.5
03123270-2849566	5059444369153859200	-8.0	4.69	0.27	8.056	8.056	-3.99	283.9
03123346-5234570	4735321737284031232	33.8	0.23	0.01	-5.571	-5.571	-0.16	42.8
03131491-8107109	4619392843320436608	175.8	3.40	0.12	12.803	12.803	-1.89	283.0
03134048-8045218	4619419089865071744	...	0.33	0.00	-4.002	-4.002	-0.16	2.2
03135196+4230102	240424332130561024	...	0.29	0.00	41.528	41.528	-0.04	49.3
03152783+3353586	137535813574478592	36.6	0.13	0.00	21.657	21.657	-0.02	56.3
03155572+3357169	125528253246150656	-8.3	0.13	0.00	-15.817	-15.817	-0.02	23.5
03155933-7432577	4639776204054863232	6.5	0.44	0.00	34.730	34.730	-0.26	46.5
03163710+2332211	110907432953980800	-186.6	1.92	0.06	25.393	25.393	-0.89	327.1
03170396-3740469	4854289415101796608	147.9	4.14	0.18	2.982	2.982	-3.48	165.9
03171573-3747479	4854284497363037696	12.1	0.12	0.00	-19.602	-19.602	-0.08	61.6
03173348-3705188	4854694001021568896	41.1	...	...	...	...	0.03	41.1
03180842+1814447	56110625281842816	119.5	1.02	0.02	30.257	30.257	-0.52	189.6
03190720-5245069	4735169768457507968	8.8	0.21	0.01	22.589	22.589	-0.14	17.7
03214149-5553303	4733473496892938368	16.7	0.18	0.00	39.385	39.385	-0.11	47.8
03220165-0020329	3262842880464520576	-68.2	0.50	0.00	-3.261	-3.261	-0.33	69.2
03222245-3731294	4854443793406263040	25.4	0.20	0.00	46.146	46.146	-0.14	43.8
03223653+0859382	11176917949244800	-16.2	0.16	0.01	0.780	0.780	-0.07	18.1
03242169-3515217	4860920810247328256	137.2	1.66	0.03	15.340	15.340	-1.36	171.5
03242519-1550054	5106733402188456320	19.1	0.12	0.00	-0.432	-0.432	-0.07	19.3
03252266+8009505	568038153934104320	-55.4	2.30	0.07	3.106	3.106	0.79	61.5
03260086-4126000	4849648891917127424	55.6	0.75	0.01	20.915	20.915	-0.59	104.4
03260534-2006507	5101544016542831232	-20.4	0.48	0.00	16.759	16.759	-0.37	51.5
03263031+0616326	9265348264761984	67.3	1.97	0.06	12.244	12.244	-1.23	242.6
03265306-0053348	3264007336293442048	14.4	0.12	0.00	31.705	31.705	-0.06	25.4
03265389+0202281	3268028903151246720	...	1.74	0.05	22.686	22.686	-1.15	220.3
03275664-4544078	4846530329047408384	9.9	0.15	0.00	-32.451	-32.451	-0.09	30.3
03283529-4000252	4853194778260569856	-5.2	0.22	0.00	-18.959	-18.959	-0.15	43.1
03283748+1856359	57481853722629888	-20.0	2.67	0.09	8.639	8.639	-1.32	171.9
03292423-6057094	4722654951015751680	148.3	4.28	0.19	12.577	12.577	-3.11	204.6
03304035-0321071	3249179288121898752	21.7	0.33	0.00	-4.870	-4.870	-0.21	24.3
03305484-0304088	3249204710032811648	...	0.18	0.00	30.999	30.999	-0.10	43.2
03312821+0749469	11354660875621376	...	0.10	0.00	170.741	170.741	-0.04	83.3

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
03343133-0555030	3247331455752180992	4.4	0.11	0.00	-4.909	-4.909	-0.05	15.6
03351518+7823252	555315734952674816	-319.8	4.21	0.17	6.994	6.994	1.34	331.3
03354665-1356010	5113319751716905344	12.6	0.13	0.00	-2.858	-2.858	-0.08	12.9
03362369+2036490	58156438465188096	-91.4	1.69	0.08	18.292	18.292	-0.76	280.2
03362874-6005593	4728790397697259392	76.8	0.43	0.00	55.488	55.488	-0.29	110.7
03365068-2327557	5086423493982030848	-3.0	0.16	0.00	6.202	6.202	-0.10	24.7
03365778+2917172	120001145732321536	7.8	0.18	0.00	15.551	15.551	-0.04	33.9
03370393-4829266	4833641097832497408	-29.0	0.47	0.00	20.033	20.033	-0.35	43.4
03370580+1802236	56464972968303104	...	0.85	0.01	-5.037	-5.037	-0.39	44.2
03385093-0255535	3250559347013995136	-66.5	4.02	0.25	2.541	2.541	-2.73	230.6
03391370+0310345	3271273935626311808	198.8	2.89	0.11	3.347	3.347	-1.81	308.6
03401638-5917516	4728932754388052224	-9.8	0.14	0.00	90.244	90.244	-0.07	77.7
03410147-1812508	5107448320968631040	28.7	0.15	0.00	-39.942	-39.942	-0.09	103.6
03421349+2729013	71184787964000000	...	0.17	0.00	34.641	34.641	-0.04	32.7
03425047-1013432	5116038431655398400	...	4.02	0.23	3.622	3.622	-2.88	185.7
03431186+7807495	554502989702092416	...	0.38	0.00	10.011	10.011	0.14	19.9
03435581-3212071	4863399349974669440	97.6	1.89	0.03	32.521	32.521	-1.47	284.0
03440716-2841235	5080387454320334592	-31.8	0.24	0.00	-24.650	-24.650	-0.16	71.1
03440987-4057281	4854966508106088064	-12.1	0.18	0.00	5.906	5.906	-0.12	14.1
03445544-7517390	4628961755579625600	2.1	0.28	0.02	22.659	22.659	-0.14	35.4
03453731-8211290	4616039813892309376	237.1	2.51	0.07	22.271	22.271	-1.33	257.3
03462539+2125305	63534390354375040	8.1	0.13	0.00	20.311	20.311	-0.03	28.4
03463330-0023036	3251527020325320960	13.1	0.05	0.00	-69.236	-69.236	-0.01	21.5
03464056-1703266	5108001001657825280	58.3	3.62	0.20	13.360	13.360	-2.68	473.2
03470283-7933197	4625542858531568768	147.3	2.47	0.05	11.866	11.866	-1.37	149.7
03470366+7232599	543671700657298816	-20.8	0.65	0.03	8.940	8.940	0.18	24.8
03475502-2219560	5087674875655599744	27.3	0.21	0.00	30.762	30.762	-0.14	43.6
03481276-2657207	5081024380790201984	-62.5	2.24	0.09	5.715	5.715	-1.71	325.9
03494330-1035255	3194196834787169152	-24.9	0.09	0.00	-49.489	-49.489	-0.04	47.3
03494712-2012428	5094777381468797568	102.2	4.05	0.28	6.973	6.973	-3.02	201.3
03505656+1915396	50799709243487232	14.8	0.11	0.00	22.875	22.875	-0.03	26.9
03511385-1222556	5114516604484590848	26.0	0.15	0.00	-5.112	-5.112	-0.08	26.2
03514691-4821339	4830105381971162368	-2.3	0.17	0.00	-17.221	-17.221	-0.10	9.9
03515804+7834544	554892216818025088	-16.7	0.12	0.00	3.419	3.419	0.06	23.7
03522200-7822390	4626118933904711936	293.1	3.23	0.12	10.741	10.741	-1.83	367.2
03525823-2712362	5080850520514122368	18.4	0.15	0.00	44.705	44.705	-0.09	47.7
03532071+0332467	3272181586771744640	58.5	1.86	0.05	11.931	11.931	-1.08	135.8
03535378-8214319	4616030261884997504	41.5	2.86	0.11	14.260	14.260	-1.51	92.9
03542750-4930350	4829790406249501824	...	0.10	0.00	22.877	22.877	-0.05	20.5
03550575+0448406	3273182073633848576	130.7	1.40	0.03	23.053	23.053	-0.78	270.8
03551870-3540553	4858448073019453568	-71.9	2.78	0.08	21.927	21.927	-2.11	270.4
03552492-3137538	4886536888554252288	191.5	0.55	0.00	46.702	46.702	-0.39	221.1

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
03570714+1150353	3304873572159327104	86.9	0.61	0.01	11.143	11.143	-0.29	92.5
03575259-3507496	4858859741341036032	73.6	0.34	0.00	11.523	11.523	-0.23	75.3
03580690-4125514	4842342190474113920	...	0.16	0.00	27.947	27.947	-0.09	15.8
03582857+0851479	3301417188637954304	...	0.22	0.00	15.624	15.624	-0.09	17.1
03582979-0646599	3196842083667299968	...	0.16	0.00	-0.695	-0.695	-0.08	16.1
03583609-3024329	4887268613542620160	187.2	0.86	0.01	63.216	63.216	-0.63	294.7
03585372-2512589	5083157811305565184	45.1	0.17	0.00	-11.421	-11.421	-0.10	78.9
03590972-7052417	4665955133531907840	173.6	2.24	0.05	1.149	1.149	-1.39	175.2
04021386-2714330	4890018148526236416	104.3	1.68	0.04	7.713	7.713	-1.22	318.5
04030414-2123136	5090671530172203648	175.9	0.14	0.00	229.019	229.019	-0.07	223.8
04032141-5057006	4828667358199528064	38.8	0.14	0.00	24.806	24.806	-0.08	66.6
04034276+0516322	3272889569179614464	-16.2	0.14	0.00	-13.406	-13.406	-0.05	22.3
04051129-3610404	4857845781166112384	29.1	0.14	0.00	32.299	32.299	-0.08	42.2
04062658-1417389	5110102993011576192	-53.2	1.45	0.04	7.586	7.586	-0.96	272.1
04064080-2822221	4889098510129080064	5.8	0.41	0.01	-5.041	-5.041	-0.27	22.0
04065230-1132234	3190316692611552000	53.6	0.23	0.00	43.919	43.919	-0.13	71.7
04065870-5405560	4779874227616110592	95.5	2.14	0.05	5.793	5.793	-1.50	151.8
04071847-3844270	4844183765074837760	11.3	0.16	0.00	-29.704	-29.704	-0.09	47.3
04073220-1508180	5097968885766682240	11.8	0.18	0.00	0.633	0.633	-0.10	12.7
04081065-4723248	4831180463825371776	13.2	...	...	...	...	0.03	13.2
04082208-8054055	4622225700669724160	...	4.33	0.21	7.381	7.381	-2.32	117.8
04082291-3306502	4882442375971513216	9.9	0.17	0.00	-30.636	-30.636	-0.10	25.1
04095634-2018250	5091033814957326464	...	0.64	0.00	10.401	10.401	-0.43	30.2
04123785-0354082	3203733925629461376	17.1	0.74	0.01	10.202	10.202	-0.42	47.9
04133760-2855548	4885822480873873408	181.0	3.08	0.10	6.087	6.087	-2.18	237.2
04144546-4431586	4837831066064068480	...	0.23	0.01	-5.567	-5.567	-0.14	59.6
04152012-4554089	4837327760319848576	9.0	0.17	0.00	3.381	3.381	-0.10	28.2
04161576-0521188	3202575628785925888	-16.4	0.14	0.00	20.966	20.966	-0.06	21.7
04162853-6636540	4668867224438266368	28.5	3.44	0.12	7.803	7.803	-2.18	75.9
04163240-0602269	3202394930922308096	90.2	0.24	0.02	107.285	107.285	-0.12	155.1
04174265-5558407	4778645523371812480	11.7	0.23	0.00	29.465	29.465	-0.13	40.3
04211598-4852031	4782730209069106432	-4.5	3.11	0.10	16.139	16.139	-2.15	208.5
04212925-5219577	4780985799511960576	100.1	6.77	0.50	2.069	2.069	-4.66	219.4
04213031-2030287	5091573542023760384	22.5	0.18	0.00	-14.980	-14.980	-0.10	30.5
04215801-2739310	4892329974803162752	...	0.10	0.00	13.945	13.945	-0.04	32.8
04225741-8308401	4615741777521531136	29.0	0.26	0.01	2.949	2.949	-0.11	38.4
04242725-8157493	4621912305496245248	206.1	1.17	0.02	6.986	6.986	-0.59	206.9
04251520-6213209	4675852078212908416	281.6	5.61	0.36	6.295	6.295	-3.62	307.9
04262201-3615167	4869018507227798400	-16.4	1.87	0.05	20.637	20.637	-1.27	278.6
04282895-3353452	4871041608622321664	16.4	0.13	0.00	-12.051	-12.051	-0.06	18.5
04291257-4921466	4787721991859465728	...	0.72	0.01	5.411	5.411	-0.47	12.9
04293837-5448372	4776030816001572736	45.2	0.08	0.00	88.079	88.079	-0.03	61.9

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
04311275-2258353	4898098833139598464	...	7.85	0.66	2.604	2.604	-5.07	116.2
04313335-7337168	4652567991051879168	135.6	1.43	0.02	22.810	22.810	-0.81	289.8
04325046-3205240	4871721965802188160	-7.8	0.11	0.00	-2.312	-2.312	-0.05	11.0
04330582-1605256	3172371116657963008	...	...	...	...	...	0.03	0.0
04332408+7049217	500082940861162240	9.3	0.18	0.00	4.847	4.847	0.07	18.0
04332826-0431033	3201331222141772928	-159.3	3.76	0.34	1.850	1.850	-2.00	262.1
04334315+8752515	575291322904958208	-31.6	0.18	0.01	-17.597	-17.597	0.11	66.8
04354147-4750031	4788319503413123200	-24.0	0.31	0.00	29.006	29.006	-0.18	104.8
04354314-5355093	4777636927611794432	121.4	4.86	0.25	3.034	3.034	-3.19	288.4
04363802+7949143	556538739776801664	...	0.27	0.00	-12.261	-12.261	0.12	16.6
04391892-3404504	4868176796716806272	...	0.55	0.00	8.944	8.944	-0.34	79.4
04392332-2434534	4894484605277323648	215.7	0.33	0.00	8.493	8.493	-0.18	252.9
04392855-3957548	4816386358778340608	14.3	0.17	0.01	-11.547	-11.547	-0.09	16.6
04400253-1922270	2978208560171576448	...	0.73	0.02	11.086	11.086	-0.42	40.2
04404386-2741005	4879633570439853440	90.5	1.87	0.05	4.293	4.293	-1.17	98.8
04404847-4214219	4814898930000598272	289.9	4.79	0.21	1.374	1.374	-3.14	297.2
04404877-3530531	4867833886528092288	287.9	3.51	0.16	9.361	9.361	-2.28	323.2
04414545-1703252	2980627661847718016	2.1	0.20	0.00	-7.033	-7.033	-0.09	21.7
04452944-4656234	4786751256234998272	19.4	0.92	0.01	3.694	3.694	-0.57	49.3
04455221+8238074	569892445935443200	-74.6	0.14	0.00	41.570	41.570	0.08	76.4
04460040-5244239	4777958977143271936	18.1	0.15	0.00	-6.810	-6.810	-0.07	19.6
04460379-4440454	4790350855440186752	195.6	4.07	0.20	11.452	11.452	-2.62	257.4
04480413-5133186	4784117101252301056	27.9	0.12	0.00	3.070	3.070	-0.05	37.1
04481274-3428106	4873248568978164608	10.4	0.12	0.00	-24.481	-24.481	-0.05	22.7
04482945-5127292	4784118686097335808	6.3	0.82	0.01	-7.365	-7.365	-0.50	49.4
04504247-4831497	4786320148893885568	19.5	0.16	0.00	1.990	1.990	-0.08	45.4
04505386+1803498	3406732187621193600	...	0.97	0.02	5.936	5.936	-0.25	52.5
04514248-3210438	4874664052759778304	118.8	3.89	0.15	9.143	9.143	-2.38	257.5
04520803-2837181	4879979504285453184	...	0.17	0.00	47.758	47.758	-0.08	34.7
04522717-3451392	4873001625538322688	19.3	0.09	0.00	14.682	14.682	-0.03	50.5
04525913-4008568	4816836269489019904	116.9	5.77	0.34	2.151	2.151	-3.61	213.8
04542625-4241431	4811990171989821824	-20.0	5.48	0.29	-1.754	-1.754	-3.42	153.2
04562421-3124177	4874779806424378496	39.4	0.13	0.00	91.251	91.251	-0.05	105.1
04563790-5602511	4776246457719437440	112.5	6.78	0.59	5.697	5.697	-4.16	190.8
04582722-4611154	4810231400062085504	30.3	0.46	0.00	-2.133	-2.133	-0.26	31.2
04583735-0449416	3212422747548345216	...	0.17	0.00	13.169	13.169	-0.05	15.1
05000638+0109473	3228880619846899712	25.2	0.16	0.00	7.232	7.232	-0.04	35.7
05011881+0803047	3290174403068832640	31.0	0.09	0.00	6.945	6.945	-0.01	31.1
05015088-4139079	4813429157832439168	...	0.10	0.00	31.560	31.560	-0.04	12.1
05015244+6745243	483790308838071424	...	0.32	0.00	-11.716	-11.716	0.11	11.6
05021896-5152056	4783532062283301120	247.7	2.94	0.10	12.096	12.096	-1.77	276.7
05022161-4603414	4810297405118590592	78.8	...	...	...	...	0.03	78.8

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
05024868+0053487	3228646389509963008	33.5	0.30	0.00	6.712	6.712	-0.10	35.0
05025851-3909387	4814331680783356800	76.6	0.36	0.00	21.490	21.490	-0.19	81.7
05042173-6614399	4662031938654411008	27.6	0.08	0.00	-83.523	-83.523	-0.02	72.5
05043110+0151252	3229000397895064960	...	0.31	0.00	-6.371	-6.371	-0.10	19.5
05065541-1056146	3181964218172190464	-20.7	0.06	0.00	-55.515	-55.515	-0.01	37.3
05070417-0543063	3211326195154437760	11.4	0.13	0.00	-4.919	-4.919	-0.03	14.5
05071155+3428162	184903053675527552	-5.4	4.48	0.40	1.349	1.349	-0.26	26.4
05071933+0950093	3290839985560775552	...	0.41	0.03	2.439	2.439	-0.10	20.8
05071949+2233222	3415364831369329024	...	0.34	0.03	1.365	1.365	-0.04	9.6
05085713+0345040	3238657198066863616	28.8	0.33	0.01	2.745	2.745	-0.09	30.0
05090948+0758512	3242001298259483776	347.2	3.02	0.15	10.447	10.447	-0.93	420.9
05104812-0827001	3206923024747054080	11.4	0.27	0.00	1.309	1.309	-0.10	11.9
05115864-0512205	3211775654892063360	5.6	0.33	0.00	1.101	1.101	-0.11	5.9
05120490+0354513	3235687077858885248	-173.9	2.14	0.10	15.144	15.144	-0.71	360.1
05124167-4059465	4818944995352554496	97.8	0.12	0.00	32.779	32.779	-0.05	175.8
05130026-2540113	2956447060393795200	12.3	0.16	0.00	-37.367	-37.367	-0.06	34.4
05134078-0629405	3208349473581491968	331.2	3.78	0.47	8.440	8.440	-1.55	374.2
05144882+7604501	503757371280728448	-7.7	0.82	0.01	-10.662	-10.662	0.32	22.8
05145383+3147370	180592968094361472	-6.3	0.53	0.01	-5.895	-5.895	-0.01	30.0
05160558-1418474	2985144932353707264	101.4	0.16	0.00	32.774	32.774	-0.05	111.0
05161882-0759103	3207022255670687488	8.0	0.22	0.00	0.519	0.519	-0.07	8.4
05163919-0740502	3207049193707252992	7.0	0.24	0.01	3.754	3.754	-0.08	14.2
05165318-1711429	2982252980551829760	177.1	4.57	0.39	4.684	4.684	-2.15	202.0
05170982+0306456	3235326060087791232	86.3	3.55	0.21	2.123	2.123	-1.15	150.4
05171185+7649087	551880864924665088	-15.1	0.16	0.00	92.861	92.861	0.08	42.9
05172978-4253358	4800721449115828352	...	4.27	0.24	8.119	8.119	-2.41	168.6
05175177-1441274	2985070199923468416	18.2	0.08	0.00	-81.537	-81.537	-0.01	36.9
05180022-2418191	2958140484397025792	186.0	4.64	0.26	9.156	9.156	-2.34	263.3
05181193+1750335	3395305135071832448	10.8	0.64	0.01	7.126	7.126	-0.10	23.9
05181299-0356513	3213469349475577472	31.4	0.33	0.00	1.152	1.152	-0.10	31.5
05183018-4217511	4806766701483968640	5.2	0.77	0.01	7.157	7.157	-0.41	47.5
05183839-0208303	3214278143356960256	...	0.39	0.00	1.470	1.470	-0.12	2.8
05191853-0625013	3207648530621533056	142.5	0.20	0.00	91.397	91.397	-0.06	167.6
05202360-2522274	2957773415014463872	416.1	0.10	0.00	141.588	141.588	-0.03	429.2
05204433-0757598	3207154098284136064	8.0	0.35	0.03	3.304	3.304	-0.12	12.2
05211432-1032144	3014044878233010304	-49.7	0.17	0.00	2.270	2.270	-0.05	57.7
05221674+1850154	3401393307050179968	11.6	0.30	0.01	0.391	0.391	-0.03	13.7
05224909-0008545	3221372600399707520	...	0.34	0.00	1.455	1.455	-0.09	2.7
05232882+6904581	485426657021670784	...	0.83	0.01	-4.104	-4.104	0.28	5.7
05234159+0001547	3221399469715891712	19.6	0.34	0.00	1.415	1.415	-0.09	19.8
05234178+0140465	3222180191690519296	24.8	0.35	0.00	1.425	1.425	-0.09	24.9
05240221+0037377	3221857420604615040	...	0.61	0.01	4.713	4.713	-0.18	28.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
05240835-0847159	3014887683958579840	45.4	0.18	0.00	9.030	9.030	-0.05	46.4
05244855+3052198	3447044445721668096	...	1.35	0.02	0.403	0.403	-0.04	9.9
05250902-4636237	4798948177378743680	43.9	0.18	0.00	42.407	42.407	-0.07	50.3
05251415-6236322	4757456177662951296	24.5	0.11	0.00	66.624	66.624	-0.03	58.1
05254247-2935153	2906535455902590464	...	0.69	0.01	-4.702	-4.702	-0.33	13.5
05255980-1225415	2985857656406840832	7.1	0.28	0.00	-0.086	-0.086	-0.09	7.3
05261364-0409463	3210609210495286016	...	0.32	0.00	-1.147	-1.147	-0.09	8.6
05261736+0054216	3221894563481860352	14.6	0.32	0.00	1.373	1.373	-0.08	14.8
05263189+5101299	261986133108337024	27.3	0.50	0.01	3.646	3.646	0.10	48.5
05270704+0208344	3222306291931030912	...	0.31	0.01	2.733	2.733	-0.07	4.5
05271660-1148112	3009915249997569024	68.1	0.10	0.00	-75.260	-75.260	-0.02	83.3
05272500-3754396	4821159308691479424	-38.8	0.08	0.00	5.204	5.204	-0.02	55.0
05284287-0020406	3220938052789255552	...	0.41	0.01	-0.233	-0.233	-0.11	0.5
05284445+0105281	3221936173125954432	16.7	0.13	0.00	-3.106	-3.106	-0.01	17.3
05291238-3538496	4822053555242274688	85.7	1.43	0.03	16.487	16.487	-0.72	186.3
05293906-0037377	3220726675974365184	19.2	0.34	0.00	1.454	1.454	-0.08	19.4
05310644+1002437	3338225775622947584	29.5	0.35	0.04	-1.073	-1.073	-0.05	29.6
05310938-0734569	3016409408052028416	76.5	2.14	0.08	7.267	7.267	-0.75	352.9
05311096+0119175	3221955960038003968	24.4	0.35	0.00	1.745	1.745	-0.08	24.6
05313358-5942455	4759644931651720064	217.5	4.20	0.24	3.859	3.859	-2.27	245.3
05314665-7729338	4623987049577991808	...	0.77	0.01	-7.724	-7.724	-0.37	26.4
05315984-0724275	3016418655117200896	31.6	0.36	0.00	2.853	2.853	-0.10	31.9
05322358+0426172	3236515250632113536	54.1	0.19	0.00	11.655	11.655	-0.03	55.5
05323333+5054220	215399069525282304	...	0.13	0.00	-16.380	-16.380	0.05	7.8
05323416-3555512	4821789049679265536	...	0.38	0.00	-0.635	-0.635	-0.17	7.4
05330330+3425560	3449578029750593408	-22.6	2.53	0.13	-0.066	-0.066	0.05	32.7
05331754-0208154	3216941882074480000	26.8	0.41	0.02	-0.649	-0.649	-0.10	26.8
05332244-5030257	4793470921547465856	287.3	2.93	0.08	-0.437	-0.437	-1.56	325.2
05333204-2332171	2963722876730308224	60.3	0.25	0.02	-14.510	-14.510	-0.09	72.2
05341283-0120379	3217572555072525056	33.5	0.41	0.00	1.195	1.195	-0.10	33.6
05343131+0352284	3224421859677408384	152.0	2.95	0.15	-2.794	-2.794	-0.75	363.8
05344241-0015449	3220804015449200384	...	0.39	0.01	-1.034	-1.034	-0.09	3.3
05355964-3116059	2902351985957543552	40.6	0.62	0.14	0.547	0.547	-0.27	46.5
05363390+0511260	3332736468116552192	...	0.37	0.01	-1.820	-1.820	-0.07	3.3
05365678-4350228	4802513236454812160	...	0.71	0.00	0.318	0.318	-0.34	68.5
05365967+0411503	3224519505758364160	30.4	0.40	0.01	-0.612	-0.612	-0.08	30.4
05370169-5105089	4793302318311314176	2.2	0.25	0.00	-2.475	-2.475	-0.11	17.8
05374341+5648268	268483082894179072	-23.8	0.26	0.00	-3.257	-3.257	0.08	34.8
05382360+7011135	485911644728122624	-26.8	0.26	0.00	4.291	4.291	0.11	27.6
05384334-5147228	4793246488033004160	...	3.24	0.11	13.252	13.252	-1.69	135.7
05391044-2345290	2963434353708776320	44.0	0.43	0.00	1.582	1.582	-0.16	61.0
05404660-1040257	3010342513344338688	66.6	0.14	0.00	12.838	12.838	-0.02	68.3

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
05415000+1525054	3347851759405013248	24.4	0.21	0.01	10.654	10.654	0.00	32.9
05423307-5913398	4759918400809516416	222.9	1.49	0.03	19.782	19.782	-0.76	235.0
05431543+7808008	552468274714043392	-45.4	0.15	0.00	16.266	16.266	0.08	57.9
05434309+5012096	214379311147693312	...	0.27	0.00	3.577	3.577	0.07	30.2
05434572-2151551	2964356642107544192	191.1	0.10	0.00	100.852	100.852	-0.02	197.0
05434805-2538412	2914965720791328896	-14.9	1.64	0.03	16.642	16.642	-0.68	372.9
05440311-6050523	4758589400489342080	25.8	0.85	0.11	3.792	3.792	-0.42	27.3
05440932-3820149	4808589176366959360	107.5	1.95	0.03	11.620	11.620	-0.92	152.3
05450050-2105418	2965923995930380160	39.2	0.10	0.00	14.388	14.388	-0.01	40.1
05455248-2556383	2914192523598690048	294.7	2.52	0.07	27.407	27.407	-1.05	423.8
05463023+4210063	192794656646602880	41.5	0.12	0.00	3.161	3.161	0.04	50.5
05463758-4103031	4804867874965676032	14.3	0.17	0.00	31.083	31.083	-0.06	78.5
05464200-1802448	29676581319256635968	16.3	0.09	0.00	-29.518	-29.518	-0.01	20.6
05472677-5432402	4767980226222674944	192.8	3.82	0.13	2.635	2.635	-1.94	235.3
05483017-5835567	4765250138851402112	113.9	0.64	0.00	-7.970	-7.970	-0.30	118.3
05483336-2434285	2915518908282121472	-43.2	0.19	0.00	29.060	29.060	-0.05	60.8
05483820+3148424	3445140602679798400	...	2.23	0.08	-0.069	-0.069	0.10	39.7
05505657-2008418	2966088402979538944	245.1	2.34	0.07	13.501	13.501	-0.85	284.0
05511133-0653111	3018944989240573056	31.0	0.35	0.00	2.574	2.574	-0.08	31.5
05521578-3953184	4805034691496015104	103.8	2.36	0.07	4.519	4.519	-1.08	137.4
05530383-2007355	2966268035692065280	...	0.85	0.01	1.914	1.914	-0.29	8.9
05531036-4113596	4804147870945271168	-15.0	0.94	0.01	-4.486	-4.486	-0.42	21.9
05542509+1632212	3349664785359713280	...	0.27	0.02	8.105	8.105	0.00	23.5
05544693-8301197	4620849386990258560	168.4	4.56	0.24	5.693	5.693	-2.16	176.5
05545543+5131242	214916074682985856	-9.2	2.87	0.10	0.297	0.297	0.66	9.6
05583688-2438574	2914576528036091136	12.0	0.22	0.01	3.727	3.727	-0.06	17.8
05583844-3434436	2889188186073231104	...	0.81	0.01	2.500	2.500	-0.32	24.8
05584204+5040146	211594935389482240	55.4	0.19	0.00	-6.961	-6.961	0.07	73.6
05592533-7744016	4647752959052853632	...	3.55	0.17	7.200	7.200	-1.71	204.2
05594737-2708140	2911019229961694208	15.1	6.26	0.39	2.083	2.083	-2.39	206.4
06000654-3034592	2891276807192892800	15.4	0.23	0.00	-3.437	-3.437	-0.07	19.7
06000928+6830331	1105490157831460352	...	0.85	0.01	-0.343	-0.343	0.32	9.5
06010912-2251504	2916542798424334208	72.4	0.12	0.00	25.477	25.477	-0.02	76.8
06013941-3304567	2889974641827298048	-13.8	0.15	0.00	-44.143	-44.143	-0.04	30.5
06023445-3332108	2889528175684527104	...	0.50	0.00	-2.054	-2.054	-0.18	5.2
06032005-7531388	5261685578730080000	36.6	0.53	0.00	-3.028	-3.028	-0.23	50.0
06032024-2059364	2917926946123381248	...	2.81	0.10	8.565	8.565	-0.92	244.8
06035878-3445341	2886205760783047808	...	0.15	0.00	62.687	62.687	-0.04	61.1
06040505-3922438	2882964602365617408	-2.4	0.15	0.00	-13.304	-13.304	-0.04	18.4
06043058-3232288	2889972447101620480	26.0	0.59	0.01	-2.492	-2.492	-0.21	27.3
06050821-3625551	2885764135065967488	...	0.21	0.02	-15.244	-15.244	-0.06	19.3
06050851+6114505	1005911306711125632	27.4	0.12	0.00	168.401	168.401	0.06	85.7

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
06050978+6654472	1105001321832556800	-19.2	0.26	0.00	1.992	1.992	0.12	23.5
06052881-4438188	5567973273001201152	...	0.67	0.00	39.707	39.707	-0.28	94.1
06055284-3537284	2885916589224697088	181.2	0.98	0.01	3.061	3.061	-0.38	214.7
06055999-6907423	5279730523050938624	193.5	2.84	0.09	7.405	7.405	-1.36	228.0
06063114-1605358	2991490626275600640	17.8	0.29	0.00	-5.445	-5.445	-0.06	20.9
06063142-5032308	5549982410912756992	...	0.39	0.00	-5.561	-5.561	-0.15	14.6
06074714-3724498	2884863016567274240	-2.0	0.60	0.00	-3.097	-3.097	-0.22	14.6
06085789-3536279	2885882774945629824	6.8	0.17	0.00	-1.292	-1.292	-0.04	68.4
06090353-7122260	5278332292157596160	190.5	2.98	0.11	19.498	19.498	-1.42	256.5
06120579-3152561	2895882146005313152	1.1	0.15	0.00	4.804	4.804	-0.03	17.6
06134289-6937017	5279560687166096896	212.2	1.92	0.05	18.928	18.928	-0.89	223.8
06135706-3555284	2885428298685730816	3.1	0.22	0.01	34.066	34.066	-0.06	75.4
06155680-7459448	5261728773219036800	136.6	2.15	0.05	-2.711	-2.711	-1.00	195.8
06171171-7328560	5265153816361777920	...	0.21	0.00	-8.263	-8.263	-0.08	118.8
06181310-0348135	3116844057174980864	...	0.13	0.00	23.051	23.051	0.00	26.5
06183086-2506582	2912205186393737472	17.7	0.12	0.00	27.244	27.244	-0.01	23.1
06192867-8743048	5189368469885240832	200.9	1.61	0.03	3.383	3.383	-0.71	327.4
06194462-2030436	2938430256702303360	-93.9	3.88	0.19	-5.437	-5.437	-1.04	142.8
06200929-5719169	5495322423720756352	39.5	0.10	0.00	210.836	210.836	-0.02	84.9
06220380-2155289	2937664962250734592	59.1	0.29	0.00	-1.694	-1.694	-0.06	59.9
06234993-5946248	5482612241102802304	...	...	...	...	...	0.03	0.0
06244840+7752154	1140661709439350528	-12.0	0.14	0.00	-67.044	-67.044	0.09	24.6
06250234-4659051	5553993768631973120	-4.9	0.74	0.01	3.564	3.564	-0.28	27.7
06290787-6709523	5283390938997970176	...	4.67	0.27	5.013	5.013	-2.09	112.0
06325088+6530326	1103660291306745856	-35.5	0.52	0.00	-0.116	-0.116	0.23	51.4
06325555-4214034	5569242345641089408	22.8	0.16	0.00	8.484	8.484	-0.03	24.9
06332771-3519240	5581669477032806912	186.7	0.69	0.01	47.709	47.709	-0.20	358.2
06345221-4425441	5556592090703647744	29.7	0.10	0.00	-1.477	-1.477	-0.01	30.0
06363111-2255559	2924798167948814208	...	0.27	0.00	-5.327	-5.327	-0.04	14.0
06382886-8309319	5206227036859558272	123.9	3.05	0.10	2.605	2.605	-1.38	141.6
06393860-3406395	5583340111934906112	6.0	0.17	0.00	29.810	29.810	-0.02	46.5
06421665-5008385	5503130777344639488	27.8	0.19	0.00	8.378	8.378	-0.05	39.5
06425079+7014409	1112486380380023040	...	1.82	0.08	-1.467	-1.467	0.79	12.9
06451421-3217294	5583930313459131008	105.2	2.23	0.05	1.053	1.053	-0.56	188.9
06451920-0857165	3098535676741247744	5.7	0.22	0.01	-11.052	-11.052	0.00	12.9
06460710-4155202	5563430395897276032	38.7	0.47	0.00	-20.460	-20.460	-0.13	53.6
06464646-4440364	5556009212103193472	32.6	0.19	0.01	-4.807	-4.807	-0.04	32.9
06484021+1625173	3358091992230790656	...	1.35	0.03	0.195	0.195	0.19	12.2
06484979-2428341	2922058189267952384	101.5	1.42	0.03	2.385	2.385	-0.26	105.4
06510773+0943416	3158574272957723776	-47.5	0.14	0.00	30.653	30.653	0.04	54.7
06523842+1513163	3354530639711957376	...	0.31	0.00	-9.853	-9.853	0.06	18.8
06525096+2440261	3381304160163213056	-98.0	6.36	0.74	2.166	2.166	1.27	318.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
06525451+1446083	3354323111187785216	-26.3	0.95	0.01	3.742	3.742	0.14	39.8
06533075+1226225	3351515542604966912	...	2.75	0.13	0.052	0.052	0.32	1.5
06533083+6836050	1103319172123035136	-199.6	3.12	0.11	5.701	5.701	1.36	243.6
06554143-4313578	5562195201959849984	123.0	4.69	0.19	1.482	1.482	-1.38	201.8
06560363+2846500	887636359876055424	38.5	0.23	0.00	-3.176	-3.176	0.08	44.2
06570150-6751413	5280814817608368000	127.5	1.25	0.02	-9.128	-9.128	-0.49	133.0
06571276-5526234	5485259315346971136	35.1	0.26	0.00	-15.893	-15.893	-0.07	45.9
06580901-8334199	5194228654877524096	198.7	3.34	0.13	5.771	5.771	-1.48	209.5
06585640+0850479	3157301205994883840	75.5	3.47	0.17	1.262	1.262	0.37	79.1
06593152-5853177	5480647173305937280	165.3	4.26	0.16	2.651	2.651	-1.57	181.3
06593924+2056439	3366133201801121536	88.5	1.72	0.04	7.248	7.248	0.36	222.8
07001955-3637535	5578346443656712960	29.2	0.15	0.00	-2.484	-2.484	-0.01	29.8
07003916+2701430	884148846432586240	-42.4	0.80	0.01	0.778	0.778	0.22	47.8
07004613+2933178	887873162895952768	5.1	0.26	0.02	-5.985	-5.985	0.09	8.2
07012363+1813452	3364377384810729088	162.5	1.78	0.05	-1.782	-1.782	0.34	195.7
07013933-5842103	5480743208774977024	469.0	3.63	0.13	1.891	1.891	-1.32	526.4
07023862+0659243	3153768440772179584	...	0.72	0.01	3.649	3.649	0.10	14.0
07030318+4006286	947804380629842816	21.4	1.55	0.04	-0.683	-0.683	0.53	53.4
07033238+2225136	3368024709696717824	223.8	4.14	0.24	0.741	0.741	0.92	238.4
07035093+1955164	3365212055873231104	...	3.56	4.19	-6.860	-6.860	0.74	114.9
07041471+1901123	3364898931280232448	70.7	0.14	0.00	47.252	47.252	0.05	82.3
07041738-1908113	2932674107172462592	51.9	2.05	0.07	-3.733	-3.733	-0.18	75.1
07041880+0246488	3115642187883221632	...	2.09	0.08	-4.119	-4.119	0.18	47.4
07041957+2340564	3368538353422137344	40.7	0.58	0.06	-4.305	-4.305	0.16	42.5
07054097+1733350	3361464812868710144	-119.9	2.37	0.07	18.373	18.373	0.48	355.9
07070364+2657035	883254423785454080	95.2	2.58	0.11	17.608	17.608	0.70	306.1
07073503+2356476	3368586663216905984	33.9	0.14	0.00	-19.877	-19.877	0.06	42.3
07081426-3557115	5566430245872289408	11.2	1.48	0.03	-1.781	-1.781	-0.29	39.6
07083867-4621128	5510018805377253632	24.2	0.92	0.04	8.756	8.756	-0.24	36.7
07085997-5424564	5491233099459990528	145.3	2.84	0.09	2.822	2.822	-0.91	172.4
07090577+2142312	3367308652748446464	...	0.29	0.00	-2.868	-2.868	0.09	7.1
07093534+2210136	3367373077257509120	10.6	0.29	0.00	-6.868	-6.868	0.09	20.1
07093868-0419118	3107527762016884096	85.4	2.77	0.33	-0.848	-0.848	0.13	86.8
07101117-2219008	2928210850185413120	...	1.99	0.05	-3.363	-3.363	-0.19	43.2
07102845+1245411	3161108024483929600	...	5.36	0.49	-8.364	-8.364	0.95	316.7
07103372-0244311	3108335765621350656	...	0.89	0.01	-7.763	-7.763	0.07	32.9
07104970+0826444	3154409902728232320	86.8	7.07	0.77	-9.655	-9.655	1.02	443.1
07110190-6301262	5285981079149837184	95.5	0.13	0.00	51.459	51.459	-0.02	135.3
07113988+8541053	1150345383223043712	4.5	0.74	0.01	1.777	1.777	0.37	41.7
07121704+1402591	3167279926849037568	186.1	5.55	0.46	3.506	3.506	1.08	263.8
07122036+4221574	949584631690298368	21.9	0.19	0.00	-15.315	-15.315	0.10	44.4
07122182-8422429	5193956796331371264	1.4	0.22	0.00	-17.776	-17.776	-0.07	30.5

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
07122917+2231366	3367505087372386944	-6.6	0.07	0.00	-51.921	-51.921	0.04	19.7
07122989-0700106	3052191643892060672	...	3.95	0.28	-0.807	-0.807	0.13	27.6
07123398-4814049	5508686643961355648	352.6	3.46	0.15	6.957	6.957	-0.96	368.7
07123461+3153463	890055835212749696	...	0.23	0.00	23.621	23.621	0.10	21.7
07130783-7052481	5267185649427578496	-0.5	0.18	0.00	-22.414	-22.414	-0.05	39.6
07150401+2714015	883489998448405504	...	0.25	0.00	12.475	12.475	0.10	39.1
07151852-5252051	5491893184393739776	230.3	3.18	0.09	9.504	9.504	-0.95	283.6
07152806-4111161	5561098267315218048	9.2	0.16	0.01	-17.602	-17.602	-0.01	18.6
07160059+5240188	986603229693072128	...	1.15	0.02	-2.867	-2.867	0.51	29.1
07170438+2402438	869715076257527808	22.9	0.93	0.02	-3.041	-3.041	0.28	26.2
07174600+1259027	3166159975473025280	...	0.86	0.01	-11.119	-11.119	0.20	47.6
07174929-0924096	3048017378051885056	30.3	0.20	0.01	-6.129	-6.129	0.03	30.9
07175677-2704124	5616006675420673664	...	0.27	0.00	-12.715	-12.715	-0.01	18.5
07181152+4406479	973981901357263104	...	0.23	0.00	9.699	9.699	0.11	23.4
07194881-5748087	5485933071160480768	...	0.15	0.00	-11.550	-11.550	-0.03	4.9
07203081-6240451	5291814602512817024	205.8	3.36	0.15	5.240	5.240	-1.16	227.1
07204786-7623393	5214066868299703040	-16.1	0.23	0.00	-54.501	-54.501	-0.07	128.1
07213106+2755248	872994571549210240	...	0.39	0.00	-25.934	-25.934	0.15	42.2
07220367+0253575	3136142616543571456	...	5.64	0.69	4.212	4.212	0.82	234.8
07224055+3618087	897278351003895424	...	0.26	0.01	-15.579	-15.579	0.12	18.9
07224582-2959375	5605629995767584000	...	0.32	0.01	-8.563	-8.563	-0.01	13.9
07233679+1412112	3166723543901552000	5.8	0.76	0.01	5.331	5.331	0.20	19.8
07234039-2959296	5605624738733670912	...	9.44	2.44	-0.901	-0.901	-1.11	128.0
07234262+1516310	3167138884419576064	...	0.71	0.01	-1.336	-1.336	0.20	31.6
07242428+5822232	989627947524580864	1.6	0.05	0.00	1.892	1.892	0.05	1.6
07254156+4948144	977051149410569344	...	0.31	0.00	-3.254	-3.254	0.16	5.4
07254769-3453506	5590014289255060480	...	0.40	0.00	-5.124	-5.124	-0.04	22.0
07260648-4637077	5510340717467331456	43.5	0.15	0.00	-36.597	-36.597	-0.01	48.8
07270798+4352580	973215713552094848	-4.6	0.18	0.00	-0.914	-0.914	0.10	5.0
07273288+3819555	899749713837935872	-10.8	0.18	0.00	59.225	59.225	0.09	45.9
07280531+1637140	3169561074176213376	46.3	0.17	0.00	-21.420	-21.420	0.07	53.2
07281913-8333342	5194416392190823040	179.5	0.81	0.01	-21.358	-21.358	-0.33	336.0
07282428-3705347	5586496638018390784	59.9	0.17	0.00	22.135	22.135	0.00	81.9
07284694+8149439	1142689281896442880	-19.5	2.05	0.05	0.901	0.901	0.99	140.7
07295359-6910360	5267963068571164928	6.9	0.15	0.00	-6.256	-6.256	-0.03	9.3
07304303+4111480	900640730573598976	30.9	0.13	0.00	-41.388	-41.388	0.08	41.6
07310602-2742595	5611975414810555264	33.1	0.11	0.00	-14.729	-14.729	0.02	54.1
07311836-6659351	5269135942537559680	-21.1	0.09	0.00	-81.454	-81.454	-0.01	25.8
07314455+5553592	988736827710024704	-39.2	0.24	0.02	5.851	5.851	0.14	40.5
07314605-3324217	5591704921522389888	...	3.06	0.10	-2.223	-2.223	-0.34	74.5
07321280+1523588	3168444240942341248	27.6	0.24	0.00	-6.270	-6.270	0.09	35.8
07321479-1300309	3033439198205025024	306.4	4.40	0.31	7.346	7.346	0.25	400.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
07325519+3655267	898637038134266752	...	8.26	0.88	-2.478	-2.478	3.34	489.2
07331792+0531033	3141404295078246400	45.3	0.17	0.00	2.006	2.006	0.06	45.9
07333190+5310203	983909666723291392	...	1.29	0.04	0.861	0.861	0.62	7.3
07334024+4425362	973487288627865728	28.1	0.19	0.00	-10.097	-10.097	0.11	34.2
07345045+0736494	3142272222070528384	29.6	0.12	0.00	-24.337	-24.337	0.05	32.7
07350484-0004500	3086417752932494848	36.4	0.10	0.00	-34.819	-34.819	0.04	40.1
07351435+2626331	872041539782121984	59.6	0.52	0.01	-11.724	-11.724	0.21	99.7
07351699-4815064	5506540186806281728	18.9	0.30	0.01	-9.939	-9.939	-0.04	22.8
07353628+1938556	672591122640513280	...	0.29	0.00	-27.725	-27.725	0.12	36.6
07354551+0455028	3138308624388237568	...	0.90	0.01	-2.557	-2.557	0.21	15.2
07354757-5036104	5493916801186715648	...	0.26	0.01	-8.396	-8.396	-0.04	12.9
07363720+1126504	3162146822454143360	-11.6	0.47	0.01	-17.589	-17.589	0.15	40.4
07363729+4034177	924375132168707200	3.9	0.12	0.00	-40.912	-40.912	0.08	26.8
07364486+4508331	926998601271917184	...	0.51	0.00	-5.058	-5.058	0.25	41.4
07365679+5950385	1086214756921278976	5.4	0.10	0.00	-18.690	-18.690	0.07	30.4
07374300-5630568	5487737374038584704	173.6	1.46	0.02	18.477	18.477	-0.39	188.7
07380041-2129196	5619082589253324544	...	1.86	0.07	-3.326	-3.326	0.03	38.4
07384500-0331557	3057721981216813568	-46.3	1.98	0.07	11.815	11.815	0.33	125.5
07393047-1530275	3029020260970100736	...	0.41	0.00	4.746	4.746	0.05	13.4
07395820+1311537	3164103029736387200	297.1	2.91	0.16	-4.003	-4.003	0.86	346.5
07400327-0740587	3042138568557247360	166.4	1.77	0.05	-6.393	-6.393	0.25	178.7
07403555+5352561	985231550281510144	70.4	0.09	0.00	-188.395	-188.395	0.07	105.3
07404482+1243437	3163865500863822592	-8.5	0.11	0.00	-27.391	-27.391	0.06	26.0
07410359-6714551	5274884459907753344	146.2	3.84	0.16	1.126	1.126	-1.31	249.2
07410851-5943543	5292748779377543168	...	0.22	0.00	-22.644	-22.644	-0.04	49.1
07412077-2900201	5599777230966529024	129.7	2.38	0.06	11.590	11.590	-0.10	175.0
07414196-0741080	3042148704679838336	39.2	0.28	0.00	-27.894	-27.894	0.06	59.7
07435834+1341353	3164056506649463040	...	0.97	0.01	-7.498	-7.498	0.32	54.1
07440179+0312226	3136905750633082624	57.0	0.57	0.00	19.335	19.335	0.16	83.5
07441635+5322545	984534979601381120	22.6	0.12	0.00	-31.675	-31.675	0.08	45.1
07443402+0742591	3145150125036773760	-0.2	1.10	0.02	4.613	4.613	0.32	36.9
07443970-4425135	5532006972050819584	155.8	1.91	0.04	-24.993	-24.993	-0.31	224.7
07445367-4653249	5530553525058225152	20.4	0.37	0.02	-3.264	-3.264	-0.05	25.1
07450351+0956148	3148979071201226880	20.7	3.96	0.25	7.369	7.369	1.14	256.7
07450424-7231255	5263155252116820608	...	1.21	0.02	-3.792	-3.792	-0.43	47.3
07451488+1000107	3149076244837702784	13.4	0.77	0.01	-5.782	-5.782	0.24	84.4
07452477+2524147	868026810512553856	66.5	0.23	0.01	-21.954	-21.954	0.11	70.2
07455398+0103107	3086833647505226752	-17.0	0.80	0.01	0.872	0.872	0.20	17.7
07461952+3903325	920303430156012160	-36.6	4.57	0.33	8.956	8.956	2.09	307.6
07464924-4313456	5532490211705643904	...	0.18	0.00	-22.130	-22.130	0.00	20.1
07480156-4924040	5518045893097566976	84.7	2.86	0.08	5.674	5.674	-0.56	176.8
07485521+5623334	1082018707015827584	18.6	0.68	0.01	-14.878	-14.878	0.37	47.6

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
07494258+6938239	1098142705736502528	-1.1	0.52	0.00	-16.294	-16.294	0.29	123.6
07503801+1119098	3150778696857500928	6.3	0.18	0.00	-1.057	-1.057	0.08	17.9
07504673+0558247	3143849888115383040	371.1	1.76	0.05	-9.594	-9.594	0.51	401.2
07533988+4933361	934072756004889216	...	0.97	0.01	17.279	17.279	0.51	271.0
07545950+6639532	1095319709633456000	48.9	0.22	0.01	-13.826	-13.826	0.14	49.2
07551255+1944081	670305998176686720	-48.9	3.84	0.19	14.512	14.512	1.50	298.1
07552395+3520063	906645575890268416	19.6	0.13	0.00	34.856	34.856	0.09	47.9
07555507+8148305	1148451100783017984	-82.1	0.16	0.00	24.326	24.326	0.11	83.6
07575895+4035155	922132399029177088	-2.1	0.21	0.00	29.874	29.874	0.13	22.4
07580568+3504110	906456700407472512	15.5	0.35	0.01	-5.773	-5.773	0.19	20.0
07584532+4211214	922545677962459904	-49.5	0.63	0.01	2.269	2.269	0.34	55.2
07590580+4748300	933111228791082240	...	0.16	0.00	49.371	49.371	0.11	36.3
08005431+3135329	878032675562889728	...	0.33	0.00	-22.213	-22.213	0.18	32.0
08005634+1633254	667243544758539136	23.3	0.20	0.01	-12.290	-12.290	0.10	26.2
08011676+6358383	1094412028423846144	-97.6	0.15	0.00	-25.176	-25.176	0.10	123.7
08021251-2821568	5597762543400727680	...	3.79	0.58	-3.165	-3.165	0.11	79.9
08022771-4804247	5517895294366243968	26.5	0.35	0.00	-8.273	-8.273	-0.03	31.6
08024574-4803573	5517708957205335168	18.5	0.34	0.01	-6.100	-6.100	-0.03	24.2
08042788-6440110	5275614368128678528	97.1	0.88	0.01	-3.929	-3.929	-0.23	135.2
08045600+3310059	905235555306335104	37.5	0.19	0.00	-44.030	-44.030	0.12	59.5
08050775+2604105	681971846610387712	49.3	1.41	0.03	-2.544	-2.544	0.67	52.1
08052894-6502132	5275590007074529152	176.6	2.41	0.06	0.136	0.136	-0.68	179.6
08053267-6119242	5289953163686735232	28.0	0.21	0.00	-16.357	-16.357	-0.03	30.1
08074491-5257227	5512588600272046848	24.0	0.16	0.00	-6.065	-6.065	-0.01	26.0
08080715+5915114	1083546379639153664	-15.0	0.14	0.00	-8.307	-8.307	0.10	15.3
08085268-6128294	5289751265864064128	172.8	1.35	0.02	-20.164	-20.164	-0.32	257.0
08090031+2850085	876519232166668800	-10.8	2.23	0.10	15.811	15.811	1.09	267.3
08092156+2521288	681134774663802496	-18.4	0.22	0.00	18.719	18.719	0.13	35.4
08100860-7523572	5213699150380190720	117.6	4.35	0.19	0.660	0.660	-1.57	120.9
08102898+4020333	909546843477733504	-43.5	0.98	0.01	1.062	1.062	0.54	45.6
08111719+4456352	929054103899434752	0.8	0.19	0.00	-48.812	-48.812	0.13	34.2
08125962-7004235	5270057397705227904	19.9	0.17	0.00	-5.517	-5.517	-0.03	20.2
08130864+3925564	909255575975553920	67.3	3.91	0.24	-8.775	-8.775	2.09	220.5
08135674+5113349	935284722760688384	-35.7	0.72	0.01	-0.456	-0.456	0.42	35.7
08140229+3940332	909264917528317952	...	0.12	0.00	-8.485	-8.485	0.09	43.7
08152203+3827587	908032124475412224	...	0.25	0.00	-22.591	-22.591	0.16	36.6
08153796+6531162	1092014470303207552	20.2	0.13	0.00	-5.352	-5.352	0.10	26.0
08162824-4611151	5519745360123251200	20.4	0.34	0.00	-6.608	-6.608	-0.01	26.8
08173327-2728418	5693425380770623616	32.0	0.94	0.01	-14.050	-14.050	0.10	64.2
08182058+5923087	1083715257753356800	10.2	0.51	0.00	-8.735	-8.735	0.31	43.0
08202927-2458369	5696053561463700992	21.0	0.16	0.00	-20.854	-20.854	0.04	27.2
08204593-7457097	5219742375524510720	-9.1	0.93	0.01	-2.510	-2.510	-0.30	14.8

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
08225420+6259266	1090362836337748864	13.5	6.09	0.37	8.063	8.063	3.46	139.7
08242044-1026147	5751499802540091776	32.2	0.21	0.00	-20.188	-20.188	0.08	37.8
08244155-6859542	5270209581283002240	...	0.45	0.00	-17.370	-17.370	-0.11	16.1
08255445+7726501	1137625614237615232	-13.3	0.24	0.00	-11.439	-11.439	0.15	16.4
08282505-2119200	5706111756390126080	6.0	0.33	0.03	-0.040	-0.040	0.08	60.2
08284828-2858468	5644860540592289536	...	1.17	0.02	-6.186	-6.186	0.14	39.0
08295142-2428117	5695713503130206848	26.1	0.92	0.02	-8.666	-8.666	0.16	43.3
08295611-1354544	5722897519371974272	-5.9	0.15	0.01	0.560	0.560	0.06	19.7
08302532-6949046	5221888519143226240	-11.5	0.13	0.00	-83.753	-83.753	-0.01	63.5
08312114-2126535	5703185367534835584	40.9	2.56	0.10	-1.806	-1.806	0.49	52.8
08315869+6949533	1121420775645432320	-14.9	0.31	0.00	11.472	11.472	0.20	29.9
08322899-2137273	5703121870736546304	11.8	1.00	0.01	-5.252	-5.252	0.21	34.4
08331960-1350331	5722870096004958208	...	0.78	0.01	-14.429	-14.429	0.23	51.6
08343393+7518493	1125113279289236096	-12.5	0.49	0.00	7.102	7.102	0.29	24.6
08350584+4839306	1026860572337001088	93.2	3.38	0.15	-7.498	-7.498	2.05	228.7
08355055-2033433	5703594458875614848	-32.4	0.05	0.00	-177.252	-177.252	0.04	62.6
08355851-0839549	5753641990492978816	200.0	5.77	0.59	-3.172	-3.172	1.86	217.6
08360617-0450149	3065446698936865152	...	0.13	0.00	-45.393	-45.393	0.07	47.0
08364858+7742308	1137832945195154560	-10.4	2.81	0.08	-0.338	-0.338	1.51	465.2
08370406+7830159	1138150772775117312	...	2.73	0.08	-4.247	-4.247	1.46	126.9
08400533-4428341	5522379549464634752	37.2	1.32	0.02	-8.119	-8.119	-0.01	74.7
08401347+4216411	913518485634602112	32.2	0.10	0.00	-124.428	-124.428	0.09	55.6
08413166-0629117	5754432023955507712	...	0.75	0.01	-4.612	-4.612	0.29	26.7
08422928-0849161	5750516216373911680	103.6	0.11	0.00	-169.313	-169.313	0.06	139.2
08430958+6038165	1041278571391227392	...	0.21	0.00	3.206	3.206	0.15	12.6
08433739+6717034	1093203940022382720	9.8	0.10	0.00	-83.104	-83.104	0.08	29.7
08434698-1812314	5705872333433002880	5.7	0.13	0.00	-28.791	-28.791	0.06	41.8
08441851+0346257	581348807340055424	-18.6	0.10	0.00	85.815	85.815	0.07	69.3
08443695-7241450	...	59.2	...	...	...	...	...	...
08444676-2845157	5642803457417047552	...	0.96	0.01	-9.639	-9.639	0.17	46.5
08445228-7438443	5216771215930182912	7.8	0.30	0.00	-2.961	-2.961	-0.07	19.9
08454426-2141380	5702387126388268160	276.6	0.82	0.01	21.625	21.625	0.21	339.3
08460663-0426024	5761503056249343360	...	0.51	0.01	-10.877	-10.877	0.22	29.0
08472137+5830138	1040480914362286592	-241.2	3.13	0.15	0.296	0.296	1.94	277.0
08473213+0548147	582973163970364416	213.8	1.25	0.04	-10.678	-10.678	0.62	359.4
08490347-6323398	5297691668265349120	-4.1	0.50	0.00	-12.005	-12.005	-0.08	18.0
08490462-6853235	5223489373715006976	37.6	0.17	0.00	-1.905	-1.905	-0.02	40.3
08494240-3836003	5621994959343177856	...	0.81	0.01	-16.178	-16.178	0.07	70.7
08501165+4242063	913730107265419136	-1.4	0.13	0.00	-37.648	-37.648	0.11	19.0
08511780-2736072	5648942030830217344	50.7	0.62	0.01	-14.853	-14.853	0.14	81.1
08514213+1250467	608133907024045952	30.7	...	...	...	...	0.03	30.7
08515469+5402598	1029765967389921408	31.1	0.32	0.00	-21.917	-21.917	0.23	46.6

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
08523133-0804579	5750792365590211328	21.3	0.14	0.00	-33.560	-33.560	0.08	30.7
08524186+6924318	1118241228535948672	-7.9	0.23	0.00	-4.064	-4.064	0.16	17.4
08525722+6423125	1044196095432573952	20.5	0.56	0.01	6.630	6.630	0.37	80.2
08533398+1644112	611494731817426560	...	0.23	0.00	-19.564	-19.564	0.15	20.2
08543649-4744205	5328756032854574592	...	5.31	0.37	-3.141	-3.141	-0.14	105.0
08544986-1159089	5736694942894396672	...	1.21	0.02	-6.811	-6.811	0.45	44.0
08554225-6955045	5222449162695490432	204.0	2.98	0.08	-4.211	-4.211	-0.78	209.2
08565578-7603590	5215675105917524608	...	0.53	0.00	13.626	13.626	-0.15	17.8
08571123+0040261	576743880843785088	-25.0	0.09	0.00	72.471	72.471	0.07	48.0
08571600-6556117	5296305287178801280	-5.4	1.42	0.02	4.943	4.943	-0.30	297.9
09002061-2220490	5654811563195280512	1.5	0.28	0.01	-22.666	-22.666	0.10	27.9
09002174-3342353	5627698985144472448	42.3	1.21	0.02	-5.904	-5.904	0.20	55.6
09012132-7055369	5222157448519411584	10.2	0.19	0.00	17.163	17.163	-0.03	29.8
09023125-0810363	5755853112670730112	81.8	0.11	0.00	-89.341	-89.341	0.07	106.6
09030506-2047415	5656156368995636608	196.6	1.08	0.02	-16.814	-16.814	0.34	213.1
09030861-0427115	5759379998080221824	12.7	1.18	0.04	-5.644	-5.644	0.55	34.0
09040262-0523492	5759068836288541696	301.6	2.89	0.22	-6.489	-6.489	1.30	320.5
09043992+0733498	584226980887837824	193.3	2.61	0.17	-1.153	-1.153	1.44	245.5
09050894-2050426	5656143484093610368	...	0.50	0.00	-9.391	-9.391	0.17	27.6
09065688+5836407	1036942720302654080	1.9	0.27	0.00	-16.136	-16.136	0.20	22.1
09073395-0340147	5759902820154063744	...	0.18	0.00	-93.185	-93.185	0.11	79.0
09090697-0324211	5759936900718820864	52.3	3.08	0.14	-2.041	-2.041	1.49	149.6
09093944-2006527	5679552155368264704	29.4	0.25	0.00	-22.073	-22.073	0.11	39.1
09102690+6033156	1039441978952648064	-65.3	0.71	0.01	-14.631	-14.631	0.48	71.4
09103058+6419220	1043675820274039040	-58.4	3.45	0.12	4.295	4.295	2.20	180.1
09104309-1444185	5731383034718059520	199.7	5.04	0.48	-3.637	-3.637	1.92	216.6
09110582-2014595	5679493090978018304	14.7	0.12	0.00	-20.584	-20.584	0.06	20.5
09110758+0217287	3843821216808928512	30.5	0.31	0.01	-2.467	-2.467	0.19	52.4
09114163+1017524	591768294919763072	-140.8	3.10	0.14	-0.048	-0.048	1.84	281.2
09122631-0037340	3842047846288227712	...	0.13	0.00	7.049	7.049	0.09	19.3
09123863+6218061	1040178033268005504	-91.2	0.24	0.01	-7.310	-7.310	0.18	125.9
09131573-1716172	5682721055254568576	...	2.75	0.16	-1.754	-1.754	1.01	44.7
09152673-0018170	3842238950857112064	...	0.48	0.01	20.346	20.346	0.28	72.5
09155397+1212314	593696288558989312	...	0.75	0.01	-3.461	-3.461	0.48	41.2
09161100+0140496	3845027557158758144	5.2	0.06	0.00	81.129	81.129	0.06	23.8
09164357-0512382	5758526021141799552	21.2	4.57	0.28	3.774	3.774	2.23	227.8
09171078-6147067	5298830659236242688	269.2	1.24	0.02	0.769	0.769	-0.16	269.2
09172903-1021252	5742681753643854464	-9.5	0.07	0.00	-9.311	-9.311	0.06	11.4
09180855-0852126	5743138252832504576	234.2	2.75	0.15	11.681	11.681	1.28	327.4
09184848+0713360	586821454667385344	112.2	4.34	0.28	-0.045	-0.045	2.57	234.6
09185431+1211488	593613206711676800	-30.0	0.15	0.00	18.174	18.174	0.12	43.0
09201726-0554052	5746372328846303360	-18.1	0.17	0.00	12.317	12.317	0.11	36.3

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
09205040+1820344	632540488180370176	...	0.88	0.02	0.485	0.485	0.60	59.2
09214717+6219538	1040038326571016704	-237.5	2.84	0.13	3.527	3.527	1.89	307.8
09220002+0957599	592248296169483264	...	0.16	0.00	-34.364	-34.364	0.12	25.9
09221426+5824580	1038229698662764160	303.8	1.75	0.03	-16.804	-16.804	1.21	390.7
09221563-7701423	5203340376458000128	16.8	1.00	0.01	6.305	6.305	-0.30	21.0
09222115-4317486	5424356193758211456	-28.2	0.79	0.01	-7.417	-7.417	0.09	35.4
09230164+5819465	1026218874158310272	2.6	0.15	0.01	1.540	1.540	0.13	7.1
09270301+4204494	814375831397158144	32.1	3.65	0.18	-2.996	-2.996	2.65	251.9
09270844+1544438	630694854833847168	11.5	2.75	0.15	6.147	6.147	1.84	310.1
09282183-3930462	5429709754532474880	60.6	0.70	0.01	-18.313	-18.313	0.13	80.3
09285510+1543302	619055111209080832	4.7	0.26	0.01	-24.829	-24.829	0.20	33.5
09290292+3549540	798505274404072832	24.7	0.77	0.01	0.407	0.407	0.58	33.5
09291542-1847544	5678392273680123520	88.8	0.63	0.01	-20.350	-20.350	0.27	108.5
09301030+0243320	3844656021013252992	96.3	4.22	0.27	1.377	1.377	2.51	196.8
09304755-3932097	5426696130598924416	98.5	0.09	0.00	-95.259	-95.259	0.04	105.5
09304964+8016095	1144494542550685824	-1.6	0.08	0.00	-22.045	-22.045	0.07	11.3
09313142+7905121	1132002131953311232	38.5	0.15	0.00	-61.481	-61.481	0.11	45.4
09315651+2335316	644413044801144064	-41.8	0.16	0.00	58.193	58.193	0.14	63.2
09325648+1823093	633101995024420480	154.2	1.90	0.06	-7.231	-7.231	1.34	190.3
09341289-8700397	5189077198087438208	...	0.15	0.00	-1.853	-1.853	-0.04	21.9
09343649+1036027	589530578303563648	124.3	1.74	0.04	-4.731	-4.731	1.17	182.0
09344298+0353574	3851012229012923264	41.7	6.51	0.67	-0.482	-0.482	4.01	154.7
09345116+1214576	614001725703023488	-6.8	...	...	...	...	0.03	6.8
09372216+0925058	588581463545772928	24.4	0.34	0.00	-0.455	-0.455	0.25	34.0
09375748+2559307	645906319030740864	-39.4	0.17	0.00	-50.272	-50.272	0.15	72.2
09382460+4205266	813812915803635712	53.6	1.78	0.05	-4.143	-4.143	1.35	82.8
09383941+1227080	614063912534411136	...	2.25	0.10	-16.659	-16.659	1.55	208.4
09384661+7833575	1131785214629423488	-26.7	2.26	0.05	-5.970	-5.970	1.30	196.5
09391251+3445386	797731523158972416	...	0.55	0.01	1.077	1.077	0.43	24.1
09403979+2921557	696431047286005632	29.9	0.19	0.00	-45.512	-45.512	0.17	61.1
09455700+2135550	640001361769756032	...	0.22	0.01	73.681	73.681	0.19	73.2
09472261+3354159	794484841418902912	57.8	0.26	0.00	-21.031	-21.031	0.23	62.5
09473545-2638039	5658256784099611008	...	0.57	0.02	-13.656	-13.656	0.22	40.3
09474496-7045530	5242578991517893120	319.6	1.89	0.04	-7.380	-7.380	-0.40	374.2
09485248+1837465	627201117981349888	...	3.34	0.23	-2.521	-2.521	2.48	185.3
09485477-3811139	5432401118477539456	20.7	0.85	0.02	-12.405	-12.405	0.20	55.3
09491888+3201060	793274382192849664	194.7	8.06	0.95	1.350	1.350	6.23	285.4
09501353-7925417	5202088268933375232	428.3	3.26	0.09	2.083	2.083	-1.06	436.9
09502173+3716070	799953365577763712	22.0	1.10	0.08	-3.136	-3.136	0.88	26.1
09502215-6930058	5243501550494934400	...	0.28	0.00	-27.062	-27.062	-0.03	26.4
09513068-3848520	5432133353036744448	30.4	0.37	0.00	-16.205	-16.205	0.10	41.3
09513210+3330203	793674978087183616	-4.2	0.13	0.00	-4.097	-4.097	0.12	16.8

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
09532759-2717101	5657259969431486336	40.0	0.21	0.00	-3.430	-3.430	0.10	40.6
09535089+3329284	794978139884594560	99.4	4.21	0.32	0.165	0.165	3.32	241.0
09541478+2735210	647086477259746176	...	0.21	0.00	-19.516	-19.516	0.19	30.3
09545564+6756128	1069803755602231168	-99.4	1.75	0.04	16.958	16.958	1.18	173.4
09553934+4319179	808168980883073792	...	0.74	0.01	-0.826	-0.826	0.60	20.7
09555639-2403072	5660496214405409152	...	0.29	0.00	-57.350	-57.350	0.14	74.3
09560894-5924282	5257538328273646336	16.3	0.15	0.00	-18.431	-18.431	0.02	18.2
09574469+1400136	615228711960558464	-18.6	0.18	0.00	3.786	3.786	0.16	27.3
09580008-4318227	5418253457547492096	43.9	0.60	0.00	-14.662	-14.662	0.12	68.7
09580109+2933087	743582087319504640	15.5	0.21	0.00	-46.308	-46.308	0.19	48.3
09593411+3708378	796772718958610304	-2.1	0.11	0.00	-40.613	-40.613	0.11	30.1
09594843+7246373	1125921282896321792	-129.6	2.64	0.09	-5.372	-5.372	1.69	235.8
10003325-2537597	5658983939239396352	14.9	0.16	0.00	-65.373	-65.373	0.09	49.0
10020621-1554291	5673966327061493760	...	0.09	0.00	-37.953	-37.953	0.07	16.0
10030615+7054115	1071492949060164992	-265.3	3.08	0.11	9.403	9.403	2.02	275.2
10033379-2329108	5665883610926876672	36.2	0.18	0.00	-45.496	-45.496	0.10	67.5
10045623-4228179	5418445670219076224	26.8	1.14	0.01	-25.537	-25.537	0.23	109.8
10052247+3945408	803621576887555840	-188.2	3.71	0.17	2.800	2.800	3.01	292.2
10053264-1827501	5672581221584085504	-18.3	0.18	0.00	-58.691	-58.691	0.11	56.7
10063882+2403476	630450488374469120	...	4.99	0.37	-6.915	-6.915	4.00	196.3
10075999-2736413	5465659970825328896	...	0.12	0.00	-65.183	-65.183	0.07	44.5
10085157-3236041	5459310600414841856	12.5	0.15	0.00	-45.986	-45.986	0.07	29.8
10100365+2227088	629233049829242368	-16.9	0.14	0.00	-1.856	-1.856	0.14	16.9
10111521-6620282	5245373292941453952	16.0	0.22	0.00	-23.962	-23.962	-0.01	22.4
10115056-4309343	5415268253418659200	23.9	0.53	0.00	-6.423	-6.423	0.12	29.0
10115917+5502205	852773418843119616	1.0	0.15	0.00	6.192	6.192	0.14	13.5
10121964-3221347	5459373341297312384	365.5	3.19	0.13	-9.952	-9.952	1.09	388.7
10124027-2249482	5666123373181152000	-38.0	0.15	0.00	-33.996	-33.996	0.09	45.8
10124666+4624575	810408381126766592	...	3.03	0.13	6.681	6.681	2.46	287.5
10143521+2324515	725459455633859840	...	0.40	0.00	12.694	12.694	0.35	252.3
10151784+5551061	853205526912187264	-15.3	0.16	0.00	-16.823	-16.823	0.14	16.8
10152469-1057352	3767574556484311424	126.2	6.68	0.82	0.685	0.685	3.98	145.1
10152705+6456284	1053650967717923072	0.3	0.13	0.00	-37.775	-37.775	0.11	23.3
10160573+6533551	1065697491989952896	20.0	...	...	8.128	8.128	0.03	20.0
10171294+4654224	810350480671638784	-29.0	0.18	0.00	13.861	13.861	0.17	31.6
10193367+7257464	1077961238527864704	15.6	0.17	0.01	-10.908	-10.908	0.14	15.9
10203763+7221398	1077708213414112128	16.9	0.56	0.00	-17.091	-17.091	0.39	53.4
10211155+4557314	809444964126986240	13.7	0.14	0.00	-63.114	-63.114	0.14	37.5
10213675+7058455	1076692848785487104	-37.3	0.16	0.00	93.688	93.688	0.13	53.2
10221281-4123416	5416543996142159488	118.1	3.97	0.19	-9.056	-9.056	0.94	351.7
10244576-7355423	5229049672736749184	19.1	0.15	0.00	-33.353	-33.353	-0.01	21.1
10250250+7723238	1128041244394048000	-18.6	0.25	0.01	10.640	10.640	0.17	18.8

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
10263327-2231158	5475397761196528896	244.6	3.96	0.25	-13.606	-13.606	1.96	364.6
10280894+4658364	833602269677094272	201.6	6.65	0.59	-4.237	-4.237	5.52	299.1
10281330-2946530	5461386169127203200	23.1	0.35	0.00	-9.639	-9.639	0.16	38.0
10295444-0801026	3774466329726812672	76.9	4.55	0.33	-8.071	-8.071	3.01	188.8
10340832-7354406	5229004382300835840	18.4	0.12	0.00	-43.013	-43.013	0.00	19.7
10350987-1416284	3750801231724757760	187.0	2.12	0.12	-7.360	-7.360	1.30	204.7
10352666+4804049	834056058741414400	187.8	0.79	0.01	-55.523	-55.523	0.69	499.1
10363889-1917043	3554709655102839552	-39.3	0.61	0.06	10.326	10.326	0.36	48.4
10371075-1056303	3760861312146553216	...	0.16	0.00	17.853	17.853	0.13	52.2
10375744+4851237	834186007272278016	-58.6	0.23	0.02	-31.223	-31.223	0.22	65.5
10382409-5248250	5354554767533822336	171.4	1.53	0.03	-53.742	-53.742	0.16	359.7
10383538+4953297	835062146240700160	-24.1	3.79	0.29	-12.147	-12.147	3.16	347.2
10385482-0518037	3776786466765131520	103.8	3.55	0.16	-9.024	-9.024	2.51	225.1
10391495+7348283	1078279478424242432	-81.9	0.27	0.00	-12.129	-12.129	0.20	95.4
10391566+7340387	1078266108189870592	18.8	0.26	0.00	-33.484	-33.484	0.19	22.1
10394895+3459288	750368410525129728	58.9	4.33	0.45	-6.616	-6.616	3.81	271.7
10420484+0246381	3857349504797962496	162.8	3.22	0.14	-14.480	-14.480	2.51	287.7
10425611-6355510	5239913019452422784	17.3	0.15	0.00	-17.242	-17.242	0.01	20.0
10430163-0230226	3802519784793984000	...	0.18	0.00	-47.126	-47.126	0.16	40.7
10430365-0643033	3776307354572694272	36.5	0.37	0.00	-7.424	-7.424	0.28	90.0
10432543+7515589	1126646406518426752	-14.8	0.11	0.00	37.015	37.015	0.10	30.3
10440416+7616213	1128438924005715456	-22.5	0.26	0.00	11.976	11.976	0.19	33.8
10440597-0853008	3762337131628855680	...	0.22	0.00	10.072	10.072	0.17	24.9
10453280+0345108	3857542022411847040	131.9	5.77	0.56	-8.333	-8.333	4.57	331.5
10493965-1719329	3556866862556915072	-19.7	2.60	0.10	10.412	10.412	1.58	329.6
10502726-2300446	3549234430794364160	71.5	0.94	0.01	-2.033	-2.033	0.52	92.0
10511274-0817026	3763102327298064128	-7.7	0.08	0.00	-45.229	-45.229	0.08	18.4
10521859+0528265	3864195618243548032	18.3	0.14	0.00	-23.355	-23.355	0.14	38.1
10530608-2253102	3549276036141218176	127.4	5.45	0.44	4.828	4.828	2.94	227.0
10531802-0055302	3803159838000339200	213.2	3.53	0.39	-1.828	-1.828	2.73	256.5
10540939-5233263	5359711992455305344	...	0.16	0.00	-3.128	-3.128	0.04	7.5
10541225+0549178	3864303022490267136	67.8	2.08	0.08	10.787	10.787	1.73	331.8
10543311+0528128	3864140775805950208	82.6	4.06	0.22	-8.674	-8.674	3.34	201.6
10554570-1654038	3556496876894238464	257.2	1.88	0.05	-5.156	-5.156	1.17	362.7
10563216-0555480	3764649748179457280	...	0.21	0.00	-28.513	-28.513	0.18	30.5
10570875-5207081	5359563558390131968	-11.4	0.09	0.00	-88.328	-88.328	0.04	36.0
10582963+0011130	3804842056430901120	172.0	2.59	0.12	-15.700	-15.700	2.06	348.8
10590836-6924479	5231719699295439488	0.7	0.33	0.00	-15.665	-15.665	-0.02	19.6
11000776+4630029	783425712959288576	-79.1	4.42	0.23	-1.640	-1.640	3.88	246.0
11004069-1102492	3758563126686411776	259.6	4.90	0.36	-7.759	-7.759	3.39	531.4
11010971+1310060	3967986487953405312	126.9	2.93	0.13	-9.905	-9.905	2.58	210.7
11023256-0636095	3787611983373749120	11.5	0.11	0.00	-87.308	-87.308	0.11	48.1

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
11023598+0102539	3805298933576500480	...	3.13	0.16	-10.293	-10.293	2.53	344.1
11051574-4752557	5362354531210538624	-11.9	0.55	0.00	-9.000	-9.000	0.13	22.7
11051929-1329347	3564247918473953792	19.8	0.13	0.00	-67.626	-67.626	0.11	52.9
11064962-5323068	5347385401964090240	...	1.47	0.03	-9.625	-9.625	0.19	41.6
11065789-4643237	5386525267120422912	8.6	0.19	0.00	-37.028	-37.028	0.07	24.4
11065939-4920517	5362109546275295872	...	0.88	0.03	-6.340	-6.340	0.18	17.5
11090121+0754418	3818459160048340352	-98.6	6.42	0.62	2.075	2.075	5.53	297.3
11092807-0242021	3791025112280181248	33.9	0.18	0.01	-56.563	-56.563	0.16	91.5
11093391+2327348	3995259156621469440	25.2	0.14	0.00	-6.728	-6.728	0.15	26.8
11112337+6943386	1074121743923049344	27.4	0.10	0.00	-111.598	-111.598	0.10	34.2
11132240-0910000	3783099076553128064	-1.2	0.22	0.00	-4.014	-4.014	0.19	14.6
11133490+1015249	3963264914441096320	375.4	3.64	0.18	-13.509	-13.509	3.22	603.1
11144345-1133225	3566319673258222208	328.5	3.26	0.18	-10.373	-10.373	2.32	364.4
11172319-5030507	5349769001420934784	300.3	2.88	0.09	-4.224	-4.224	0.51	305.8
11213850+3100109	4023379441379492096	...	0.33	0.00	-21.924	-21.924	0.33	45.7
11215118-4555200	5376213596097250176	25.4	0.18	0.00	-81.924	-81.924	0.07	91.1
11232110+6118098	862722319742958592	-67.9	2.65	0.09	-6.653	-6.653	2.13	112.0
11235327+0025363	3797935886458318336	36.9	3.97	0.23	5.630	5.630	3.32	363.2
11242364-0642128	3785352182036872320	71.6	4.70	0.39	4.023	4.023	3.64	177.5
11245109-0118132	3796858154608999424	139.6	5.49	0.58	-1.147	-1.147	4.51	262.8
11245186+8132096	1133615145575572992	50.8	1.06	0.01	-3.797	-3.797	0.63	89.2
11251752+4810412	789033325338645888	15.5	0.24	0.00	-114.356	-114.356	0.24	89.7
11252946-0035203	3797041055791986048	39.8	0.22	0.00	-112.094	-112.094	0.20	123.9
11255206+5922341	859132616140394880	57.4	0.84	0.01	-22.077	-22.077	0.71	73.0
11260849-0718091	3591618782978505472	...	0.75	0.01	-13.115	-13.115	0.60	75.4
11264720+2321085	3992675231281619584	...	0.19	0.00	-11.646	-11.646	0.20	9.4
11284462+1159546	3917369061419260928	26.9	0.16	0.00	-58.467	-58.467	0.17	53.2
11293922+6718355	1057741219692489856	-13.3	0.17	0.00	48.576	48.576	0.15	28.5
11320178+4540156	784645621097082624	51.6	3.51	0.18	-9.471	-9.471	3.23	206.7
11322424+7217439	1075031310621259776	-17.3	0.14	0.00	12.530	12.530	0.12	28.7
11332470+1251440	3917497017084939776	221.2	6.29	0.52	-16.401	-16.401	5.81	674.7
11343570+1932184	3977488952772409856	...	0.20	0.00	-16.705	-16.705	0.21	18.4
11344124+5314269	841082728317714048	-153.4	2.63	0.09	-20.068	-20.068	2.31	251.7
11351928-3430096	3477077051780069632	-18.7	0.19	0.00	-20.516	-20.516	0.11	47.2
11364104+3220057	4024512758694334336	19.2	0.08	0.00	-43.519	-43.519	0.11	52.8
11372004+1845309	3974320228980706816	178.7	5.29	0.46	-13.067	-13.067	5.03	380.1
11373800-5202251	5345681227653768064	300.8	1.18	0.02	2.068	2.068	0.21	331.5
11381456+1534117	3972403604119095808	6.7	0.31	0.00	11.753	11.753	0.32	18.7
11403298+6340440	864134573709331584	-0.7	0.21	0.00	-40.038	-40.038	0.19	20.3
11415054+5035361	790901636102569472	-7.3	0.10	0.00	-45.556	-45.556	0.12	15.7
11423344+0800282	3910233647567741056	-216.2	2.83	0.12	0.589	0.589	2.59	220.2
11444533-4644384	5372404612941931392	5.3	0.28	0.01	9.102	9.102	0.09	46.1

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
11465844+4835156	787263141676539648	-20.6	0.44	0.01	-25.923	-25.923	0.42	47.9
11471027+0341265	3895958344506982784	241.6	3.79	0.24	-22.995	-22.995	3.37	580.0
11483814+1952557	3976143459777843968	51.2	4.90	0.59	-2.567	-2.567	4.74	178.0
11492027+3132066	4021576517188258688	...	0.17	0.00	43.539	43.539	0.19	42.6
11505337-8036338	5199459645869304704	-14.3	0.22	0.00	7.342	7.342	-0.04	26.6
11515346+8151152	1133680021057772544	-112.7	3.05	0.09	-11.602	-11.602	1.77	199.7
11515556-4738558	5371554866553160960	401.9	2.27	0.10	9.679	9.679	0.58	408.7
11524486-4709547	5377584485241041408	165.2	2.17	0.08	-16.820	-16.820	0.57	209.6
11541040-5208317	5368942804889403520	21.9	0.21	0.00	-64.998	-64.998	0.06	44.9
11543955+7023508	1061694681253422336	-12.9	0.76	0.01	-15.647	-15.647	0.57	50.1
11545004+4749009	786606630149557248	...	0.34	0.00	-23.789	-23.789	0.34	66.1
11564526+3145522	4026626810316850048	-71.0	0.22	0.00	7.749	7.749	0.24	76.7
11593802+2922115	4008146360612154112	14.5	6.40	0.62	-5.114	-5.114	6.30	332.5
11595151-3905280	3459312659023799552	22.4	0.18	0.00	-53.545	-53.545	0.10	45.0
12001449+1641370	3925430066494830336	-23.9	0.19	0.01	-38.839	-38.839	0.20	41.5
12004306+2949116	4008186046109996672	-97.7	3.84	0.23	-10.467	-10.467	3.79	346.3
12005811-3929233	3459242084121356288	16.1	0.07	0.00	63.913	63.913	0.05	22.8
12022430+6255274	1582997852929561600	-32.5	0.46	0.00	-26.675	-26.675	0.39	51.7
12034594+3035029	4014343925404883328	-1.4	0.14	0.00	-35.593	-35.593	0.16	29.5
12052554-4408587	6147464275054037120	89.3	0.23	0.00	81.846	81.846	0.10	111.6
12055188+1735548	3925930962760630656	-57.7	0.24	0.00	-76.045	-76.045	0.26	108.4
12070423-5345229	6076898344653529344	193.5	2.51	0.07	-19.384	-19.384	0.40	239.5
12070444+7600223	1692730414755815552	13.2	0.15	0.00	-2.544	-2.544	0.12	17.0
12074090+3519591	4029760766348866944	...	0.76	0.01	10.270	10.270	0.77	46.1
12083074+3954084	1536035581002935424	88.6	5.68	0.50	3.950	3.950	5.50	232.2
12094665+6450371	1585030811273958400	-167.4	6.57	0.50	-3.115	-3.115	5.18	237.1
12100140+4520564	1539687570219614080	...	4.56	0.30	-8.271	-8.271	4.31	229.3
12104009+7032545	1684079324125218944	20.5	0.23	0.00	-108.526	-108.526	0.19	58.0
12111339+2220415	4001468785978496768	-6.4	0.17	0.00	-132.130	-132.130	0.19	104.7
12132563-3800203	3461061226110222080	39.5	0.12	0.00	-101.804	-101.804	0.07	88.1
12143659-1517191	3569366385619378432	-26.9	0.09	0.00	-77.101	-77.101	0.09	42.6
12155841-3547529	3461905891557813248	-9.2	0.34	0.01	-24.300	-24.300	0.18	33.4
12161019+4524243	1538985944361745536	12.5	0.13	0.00	-24.820	-24.820	0.15	26.9
12181234-3721065	6151711177372668928	...	8.69	1.83	-4.497	-4.497	3.70	165.4
12214951+4244520	1538031641283723008	15.6	7.03	0.72	-5.250	-5.250	6.75	129.4
12221869-3853368	6150224495918526848	342.6	2.29	0.07	-5.940	-5.940	0.94	376.4
12240228-7202466	5842561802238077952	...	0.31	0.01	11.928	11.928	-0.03	12.2
12245683+7007242	1683832243246834304	-22.8	0.67	0.00	5.926	5.926	0.52	46.3
12261008+3926273	1532300402563759360	...	0.55	0.02	-21.132	-21.132	0.56	43.7
12280652-3319179	3468446817511036160	232.0	3.91	0.28	-0.223	-0.223	1.94	265.0
12284069+1942295	3948963287525544576	-30.8	4.44	0.31	5.104	5.104	4.41	322.6
12293447-3233073	3468579201286803200	243.4	4.20	0.30	-13.894	-13.894	2.13	339.7

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
12334194+1952177	3949121587136124160	69.9	17.39	5.11	0.705	0.705	17.23	413.7
12335935-3246361	6160173770478603520	-11.6	0.64	0.01	-55.534	-55.534	0.35	147.7
12335980-2944042	3471719754389184384	67.9	2.03	0.09	-25.346	-25.346	1.13	226.2
12340964-3453438	6158168604865990016	85.6	4.10	0.35	-19.584	-19.584	1.94	437.6
12342913+4826025	1543862488889757568	-177.7	4.03	0.20	-2.067	-2.067	3.77	268.9
12353682+4854057	1544253571429564800	16.6	0.14	0.00	-84.074	-84.074	0.15	39.6
12353793-4301524	6145744883683553408	60.1	0.31	0.00	-53.060	-53.060	0.13	83.3
12360829-7040522	5843251466600455808	-7.0	0.26	0.00	-40.566	-40.566	-0.01	21.0
12363406+4334497	1540600409684268032	-24.2	0.24	0.00	-34.298	-34.298	0.26	55.7
12382743-3400315	6158315870705750912	-67.6	3.84	0.22	0.544	0.544	1.87	89.4
12383506+2039384	3949279882451077888	-102.6	...	...	...	...	0.03	102.6
12392838+5038459	1568524878294905088	32.3	0.17	0.00	-19.761	-19.761	0.18	36.2
12395834-3131208	6160731124090635520	-16.1	0.12	0.00	-51.828	-51.828	0.09	31.2
12401578-7012252	5843372485918189440	59.4	0.21	0.00	-25.660	-25.660	0.00	60.6
12413756-5412247	6074478212169867904	-25.7	0.16	0.00	-25.894	-25.894	0.05	60.0
12432213-5955445	6056631317380990208	18.4	...	...	...	...	0.03	18.4
12433114-8753309	5765813554148627328	3.6	0.87	0.02	-0.675	-0.675	-0.34	4.0
12433200-2408376	3501624164266183552	197.9	2.07	0.10	-11.797	-11.797	1.32	305.6
12435927+7222303	1689741705929430016	-75.0	0.58	0.00	-59.320	-59.320	0.43	141.9
12450496-1907283	3521841434322113152	...	3.52	0.19	-6.236	-6.236	2.46	236.9
12493821+6415038	1676938094886271104	-4.0	0.15	0.00	35.080	35.080	0.14	21.7
12503487+4033500	1527854729160394496	-9.1	0.20	0.00	-1.243	-1.243	0.22	31.1
12505600+5649548	1576792896497757440	...	0.13	0.00	-90.373	-90.373	0.13	48.3
12510042-1942157	3509552399017285632	-25.8	0.14	0.00	34.753	34.753	0.12	49.9
12511944+6940558	1688859141689049984	...	1.20	0.02	-63.881	-63.881	0.91	251.3
12534156+4512260	1530523729214664192	19.8	0.14	0.00	-28.915	-28.915	0.16	45.1
12540492-1445540	3525348811990850560	-38.7	0.08	0.00	-56.364	-56.364	0.09	46.7
12541483-6940177	5844853661205358208	...	0.96	0.08	-18.522	-18.522	-0.09	36.1
12550382+4640597	1530993770436582784	-16.9	4.64	0.35	-14.226	-14.226	4.39	312.7
12552381-8428164	5770402155472131712	185.6	4.79	0.24	-8.690	-8.690	-1.74	205.2
12553388+6801121	1679621251151114624	-81.4	0.25	0.00	28.530	28.530	0.22	93.0
12572833-5125217	6081346139752486784	41.3	2.49	0.12	-10.486	-10.486	0.52	90.2
12592188+5338040	1558199669539397376	-10.8	0.27	0.00	-1.367	-1.367	0.27	24.3
12595962-0829171	3627268897025456000	...	0.47	0.00	-28.012	-28.012	0.41	63.5
13003028+6135085	1579614380772959104	-129.7	0.93	0.01	-69.293	-69.293	0.79	325.8
13022750+5836042	1578633165428231552	...	0.63	0.00	-13.387	-13.387	0.57	26.8
13031323+4812574	1555059567409267328	24.7	0.15	0.00	46.783	46.783	0.17	51.6
13044809-8623048	5769157650045097984	6.5	3.14	0.10	1.228	1.228	-1.23	150.2
13070832-5007271	6081477913650691456	8.1	0.41	0.00	-25.849	-25.849	0.11	33.1
13073032+4948349	1556370498804511360	-65.5	4.07	0.17	-10.343	-10.343	3.77	174.5
13091593+4640598	1553980847721855616	-0.9	0.12	0.00	-136.326	-136.326	0.14	61.1
13091772+4524279	1529793344255574016	...	0.14	0.00	1.640	1.640	0.16	30.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
13123590+7259464	1688176585486569600	-1.1	0.16	0.00	-117.941	-117.941	0.14	39.5
13133130-6138303	5863379783621954944	-27.5	2.00	0.06	-4.561	-4.561	0.06	34.3
13134248+3405127	1473046861950780032	...	5.26	0.33	3.928	3.928	5.23	333.9
13140302-0929340	3624508096342874240	-7.1	0.27	0.00	-41.343	-41.343	0.24	52.1
13145513+3825569	1522993032339838848	156.6	4.11	0.21	-10.615	-10.615	4.04	229.2
13151765+5708386	1566249645139278720	-8.5	0.29	0.01	-1.676	-1.676	0.28	22.4
13175280+3411307	1473007485690704128	-135.9	2.69	0.10	3.018	3.018	2.68	383.7
13222653+7020284	1685430349037732864	-41.8	0.19	0.00	26.324	26.324	0.16	42.8
13222932+3936562	1476579283573419264	-0.5	0.43	0.12	-5.065	-5.065	0.45	17.1
13230288-1704404	3604328999956748032	15.1	2.68	0.13	-14.892	-14.892	1.92	217.2
13231009-0531428	3635041726974665600	...	0.43	0.00	-6.447	-6.447	0.38	25.6
13231283+4320557	1549603412755666944	102.0	4.11	0.22	-15.365	-15.365	3.95	252.3
13240005-1748099	3604036456848334720	278.3	2.05	0.07	9.740	9.740	1.46	343.2
13241831+4610307	1551088548024093952	-5.8	8.08	0.67	-12.800	-12.800	7.62	376.2
13242995-4551146	6087082811610225536	3.5	0.18	0.00	-26.912	-26.912	0.08	17.2
13244275-1607008	3604537731071348992	265.5	3.41	0.20	-0.330	-0.330	2.48	328.7
13253853-1412517	3608192335923918208	168.2	4.74	0.40	2.178	2.178	3.54	309.7
13282335+7427122	1712581998412032768	2.4	0.63	0.00	-3.652	-3.652	0.45	6.9
13294999+0115237	3711389512304903168	34.2	3.63	0.21	-7.893	-7.893	3.24	272.5
13303726-4125545	6160938171579414016	...	0.28	0.00	23.031	23.031	0.12	27.7
13351401-0110524	3638534188221336960	104.4	4.92	0.66	4.925	4.925	4.28	288.5
13360938-4408536	6111481627465700352	181.9	1.89	0.05	-8.089	-8.089	0.61	255.7
13373017-7717500	5789490093947866624	299.9	2.48	0.06	-27.405	-27.405	-0.60	314.1
13373672+5902017	1662055552169232896	21.7	0.17	0.00	-20.338	-20.338	0.16	56.7
13375051+4742311	1552172322891498240	93.0	2.85	0.12	-12.538	-12.538	2.66	170.8
13394721+6824054	1672939136736222464	-85.1	0.17	0.00	-2.554	-2.554	0.15	86.9
13401321+7237543	1687511071713939712	-117.7	4.10	0.23	-1.218	-1.218	2.87	149.3
13404811+0717285	3724481569055443712	-34.1	0.20	0.00	44.519	44.519	0.21	81.6
13425404-0717005	3620124270467822848	149.7	7.06	0.74	2.545	2.545	5.69	191.3
13433867+4844266	1558284370590734336	...	0.88	0.01	0.434	0.434	0.83	183.4
13434635-0806060	3618345883425109632	-30.2	0.79	0.01	-9.786	-9.786	0.65	48.4
13443166+1523410	3742083100949072640	-2.4	0.12	0.00	-94.515	-94.515	0.14	53.0
13443667-4143163	6112289699794699264	-22.1	0.87	0.01	-39.979	-39.979	0.32	142.5
13452111-0730545	3619873547457548160	177.0	6.36	0.62	-4.550	-4.550	5.10	223.3
13454247-7355568	5791382177358811264	-27.7	0.12	0.00	12.516	12.516	0.00	33.9
13455046+0513062	3714276142644562432	27.9	6.11	0.65	-4.399	-4.399	5.54	270.6
13455076+1426436	3741132710585731840	-7.0	0.18	0.00	-29.815	-29.815	0.19	30.4
13460278-6854556	5850193237592455552	...	1.18	0.02	-8.218	-8.218	-0.11	28.8
13461713-4155246	6112273791235652352	...	2.02	0.11	-23.549	-23.549	0.71	350.3
13465223-4334387	6108883889504179072	213.7	5.91	0.54	-12.875	-12.875	1.87	354.0
13481581-7052139	5840796639405915648	-8.2	0.16	0.00	-113.938	-113.938	0.00	60.3
13510697+5853470	1659341789968532736	48.9	0.21	0.00	-12.227	-12.227	0.20	49.4

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
13512378+07411110	3721736844435125760	-39.2	0.15	0.00	-64.142	-64.142	0.16	62.5
13521659-3554258	6115884072018761728	...	4.20	0.38	-16.688	-16.688	1.82	283.5
13533557+7552137	1712349073745277056	-33.0	0.22	0.00	39.657	39.657	0.17	43.2
13550687+1707259	1243948839616012160	45.0	0.07	0.00	137.007	137.007	0.10	72.2
13580646+1002348	3723801761632006784	46.9	0.08	0.00	61.416	61.416	0.10	56.0
13584157-3151091	6171032134996732416	-9.0	0.13	0.00	-106.555	-106.555	0.09	81.5
13592706+1141130	3727361838547995648	12.6	2.24	0.12	-14.679	-14.679	2.10	276.3
14002121+5538479	1657538212943126400	-30.6	0.25	0.02	30.009	30.009	0.24	86.3
14004596+1215235	3727546045400955136	-9.9	2.91	0.13	-12.503	-12.503	2.72	405.2
14012934+1126361	3724429582771428352	28.3	4.71	0.36	-2.166	-2.166	4.37	133.4
14020262-6530100	5851263646573358848	12.0	0.66	0.01	-5.396	-5.396	-0.02	21.4
14043744+1255144	1229600350311933952	113.2	7.75	1.32	-5.369	-5.369	7.19	246.1
14053819+7503388	1712061237921283456	-6.5	0.12	0.00	19.022	19.022	0.11	7.3
14063229+4115356	1498298211635183744	...	0.22	0.00	-81.394	-81.394	0.23	63.5
14070810+6936102	1674781746425953792	-162.4	3.98	0.16	-6.147	-6.147	2.89	199.1
14071697+1212488	1226501033191248640	-36.8	0.15	0.00	-128.472	-128.472	0.16	102.3
14095514-2844258	6269381255374610176	290.5	2.40	0.13	-19.832	-19.832	1.26	359.3
14103285-2816339	6270148611411493888	91.3	4.98	0.32	-5.713	-5.713	2.62	181.0
14164140+6136563	1666637942972460672	-10.5	0.11	0.00	-65.361	-65.361	0.12	34.7
14173352-2745144	6269861295279466752	5.4	0.97	0.01	-7.807	-7.807	0.53	38.7
14192484-2307370	6275972209107871872	8.7	0.20	0.01	-17.466	-17.466	0.14	19.2
14193074+4035121	1491839749053036160	-71.6	0.13	0.00	-27.457	-27.457	0.15	73.3
14200302+5936293	1660185630782829952	-41.0	0.11	0.00	-61.812	-61.812	0.12	65.1
14203031-2729455	6269707565513913088	-38.0	0.67	0.01	12.039	12.039	0.37	118.1
14211081-5015172	6091186773125289728	6.0	0.26	0.00	-11.834	-11.834	0.07	38.2
14223584+4045568	1491104691170130944	-268.4	3.15	0.10	-8.333	-8.333	2.92	402.2
14243397+5624475	1610452860137779584	-300.5	2.10	0.05	-17.544	-17.544	1.77	342.9
14255416+2648176	1256475262057930112	15.1	0.15	0.00	2.565	2.565	0.17	31.6
14261661+8102449	1721820606208706176	-119.1	5.35	0.29	-7.813	-7.813	3.12	125.3
14280573-1353174	6300021547768039808	-11.0	3.46	0.17	-10.934	-10.934	2.37	182.8
14294135+6525010	1669746193625166976	-78.1	0.65	0.01	-4.787	-4.787	0.51	80.7
14295841+4502025	1494491496221024512	-76.5	4.26	0.21	-7.376	-7.376	3.84	244.2
14324019+3238042	1287120579569866496	68.2	8.08	1.23	-3.410	-3.410	7.48	213.8
14341379-6707026	5848443708440147072	11.6	0.11	0.00	14.967	14.967	0.01	15.1
14364248-0715099	6331121238455373696	38.0	0.14	0.00	46.381	46.381	0.13	55.5
14385266+3937037	1487940434144428416	-80.9	6.93	0.45	-6.953	-6.953	6.27	198.5
14402612+0655539	1171807334801223808	-122.4	3.43	0.19	-20.152	-20.152	2.91	430.7
14410823+4223420	1490063071404892544	-63.4	0.57	0.01	7.850	7.850	0.53	84.2
14411830+1044242	1177885611173494016	-115.2	5.82	0.46	-3.934	-3.934	5.03	257.7
14421990+5654506	1607745454489656960	-23.5	0.13	0.00	6.728	6.728	0.13	29.4
14431485-0206178	3648915222959836800	2.8	0.10	0.00	-48.546	-48.546	0.11	29.1
14442119+4758464	1591067649802389632	-101.6	4.60	0.21	-11.429	-11.429	4.00	198.2

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
14443681+3939231	1487238292890443776	-17.6	0.13	0.00	-41.719	-41.719	0.14	43.9
14444228+4247368	1490052389822427648	53.7	0.12	0.00	-4.924	-4.924	0.14	61.4
14453096-0214079	3648730612380753664	...	0.55	0.02	-6.476	-6.476	0.44	68.0
14455563+5838081	1616958709094540672	...	0.14	0.00	19.115	19.115	0.14	7.0
14460403-7303141	5796756182184708096	275.6	3.48	0.13	-6.152	-6.152	-0.70	292.2
14473151+0306259	1157525159792413440	...	0.55	0.00	-13.317	-13.317	0.47	62.0
14504173+6652564	1669581885356163456	-62.7	3.04	0.08	-8.800	-8.800	2.22	129.5
14512223+0339397	1157672906667474432	...	0.14	0.00	-176.503	-176.503	0.14	123.7
14520851+7234433	1698671492693440512	-17.8	0.20	0.00	-15.775	-15.775	0.16	31.4
14535190-4724035	5905262548019849856	...	0.13	0.00	-20.242	-20.242	0.05	16.2
14550996+1452303	1185448189587672960	-37.5	0.11	0.00	-52.056	-52.056	0.12	46.4
14561630+4534315	1586671424357440000	-61.3	0.49	0.00	-24.932	-24.932	0.45	161.6
14561931+0829491	1161734987952738176	-155.8	2.32	0.11	-4.153	-4.153	1.92	349.1
14572828+3910442	1296184266229998976	-26.3	0.15	0.00	-21.091	-21.091	0.15	37.9
14572980+5047347	1593299585391391232	...	0.12	0.00	-39.634	-39.634	0.12	19.8
14584270+6055051	1619069599620600576	5.3	0.12	0.00	42.045	42.045	0.12	13.2
14584982+4500407	1586583807024523520	11.4	0.14	0.00	21.138	21.138	0.15	23.7
14590313+0544031	1159807818946952064	18.1	0.16	0.01	-40.819	-40.819	0.16	49.8
14591786+4755555	1587515844991289600	0.2	0.28	0.00	-0.265	-0.265	0.26	27.7
15002374+1131178	1180473277429900288	-13.8	0.22	0.00	-72.241	-72.241	0.20	73.7
15010054+5654074	1612825747965425152	-40.4	...	...	...	...	0.03	40.4
15010753+1708495	1187645868519130240	-64.5	3.39	0.18	-0.459	-0.459	2.91	150.6
15012803+3616594	1294826884765960192	-124.6	0.91	0.01	-37.896	-37.896	0.82	274.9
15015996-2613494	6225828809526332416	-77.1	1.35	0.03	-55.922	-55.922	0.66	331.0
15021465+3507093	1291694234403435648	-39.3	0.21	0.00	-7.918	-7.918	0.21	55.3
15023312+0549057	1159849256791308160	-11.0	0.41	0.00	-5.138	-5.138	0.35	47.8
15023572+0940189	1167946644533913728	-44.9	4.42	0.31	-9.672	-9.672	3.62	213.0
15023742-2442191	6227668258118329088	-54.4	0.54	0.01	-5.267	-5.267	0.29	55.7
15025030+1345255	1181911644797448832	-76.9	0.09	0.00	-142.077	-142.077	0.10	101.2
15025884+4539160	1586250517562417024	-89.7	5.87	0.34	-8.430	-8.430	5.00	187.3
15031286+0602157	1159876916380773120	100.6	1.61	0.05	13.809	13.809	1.30	209.4
15040464+5927327	1614255147440846720	-22.6	0.26	0.00	4.828	4.828	0.22	28.7
15043325+0441214	1156620193003216256	-29.6	3.74	0.20	-12.647	-12.647	2.94	324.1
15050841+0701547	1160377499113263360	-2.6	4.18	0.29	-3.422	-3.422	3.34	255.3
15060136-2508317	6227460583562691968	15.3	0.18	0.00	-10.256	-10.256	0.11	24.9
15060189+0444205	1156532506951177472	24.4	4.42	0.26	-18.957	-18.957	3.46	399.8
15065236-2547072	6226609772026895104	-18.2	...	...	...	...	0.03	18.2
15071495+5704053	1612981535018964224	-2.2	0.17	0.00	-24.518	-24.518	0.16	29.9
15085620-7020101	5799023787486633984	2.1	0.20	0.00	-29.786	-29.786	-0.01	19.6
15092359+3623180	1292060685309150336	-16.9	0.16	0.00	-106.501	-106.501	0.17	71.8
15094309-2025300	6255898665838008960	...	0.27	0.00	10.236	10.236	0.17	12.5
15095381+7303555	1697243020930244608	-48.4	0.17	0.00	-51.675	-51.675	0.14	51.8

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
15102643+0809151	1166563287107603328	113.9	2.21	0.09	0.215	0.215	1.77	170.2
15114226+2557063	1265182569515722880	-64.7	2.80	0.11	-14.797	-14.797	2.42	194.4
15122018-6551473	5824755211457838848	-45.9	0.58	0.00	-13.551	-13.551	-0.04	56.9
15140783+1824326	1211721397891599872	-35.0	1.92	0.06	5.503	5.503	1.62	263.7
15142395+2613341	1265208133161061888	-93.2	3.85	0.19	-7.344	-7.344	3.29	212.8
15174310-6858306	5799218602888406272	-17.5	0.69	0.01	-10.793	-10.793	-0.09	75.9
15185830+2620276	1270426797601163008	9.2	3.07	0.14	-4.209	-4.209	2.60	364.8
15193496+4256501	1394164216985937152	-27.4	0.21	0.00	-22.629	-22.629	0.20	35.6
15193617+2304315	1215718152722386816	54.0	4.03	0.23	-12.015	-12.015	3.38	317.7
15200891-6701472	5823675417983108096	...	0.19	0.00	-16.960	-16.960	0.00	19.3
15210142+7816076	1708318332837616256	-152.5	5.39	0.30	-10.865	-10.865	3.21	252.7
15243997-8015248	5772460033220024576	-53.9	0.48	0.00	-50.670	-50.670	-0.13	91.1
15244942+6935080	1695610791623488128	-7.9	0.25	0.00	-7.182	-7.182	0.20	45.9
15252134+6351159	1640849688017226496	-15.2	0.15	0.00	-166.651	-166.651	0.13	57.5
15255933+5026270	1594780288252588032	9.4	0.11	0.00	51.652	51.652	0.11	50.3
15264322-7017087	5796025453632860544	-53.6	5.30	0.29	-5.540	-5.540	-1.01	72.3
15272716+2937502	1273518040182639872	29.3	0.60	0.00	-7.566	-7.566	0.52	38.2
15282654+6737516	1645668263365914368	-31.3	0.18	0.00	-120.215	-120.215	0.15	108.0
15304031+2345045	1220893455176256512	-32.7	3.62	0.30	-8.340	-8.340	2.96	138.9
15312758+2528504	1222449092327405056	-17.4	0.18	0.00	-56.957	-56.957	0.17	59.3
15330912+8158562	1721465807550041856	-16.0	0.16	0.00	-33.533	-33.533	0.11	21.5
15345353+5610250	1601294344891081472	-92.2	0.29	0.00	-31.603	-31.603	0.25	103.3
15351593+0251226	4427077397649058944	-69.6	4.68	0.34	-10.210	-10.210	3.27	280.4
15352535+2843009	1272505179518285696	5.3	0.11	0.00	3.852	3.852	0.12	24.7
15371627+3318345	1370624708124173312	-19.8	3.72	0.18	-5.305	-5.305	3.03	93.1
15381851+4804330	1401181854246440704	-63.7	0.16	0.01	-32.067	-32.067	0.15	66.4
15391788+5403318	1597864040410848896	12.7	0.20	0.01	31.283	31.283	0.17	36.1
15392367+4037228	1389938076542244992	-285.3	1.73	0.04	-35.192	-35.192	1.41	378.7
15392783+5557319	1601593274615155712	-26.1	0.22	0.02	-17.235	-17.235	0.19	27.9
15393011+7252178	1696583898069432704	-44.8	0.23	0.02	4.303	4.303	0.17	48.7
15394006+4426174	1397344691808122624	-80.2	4.38	0.20	-10.900	-10.900	3.49	180.7
15414028+8245352	1723003508921638656	-15.7	0.27	0.00	-20.880	-20.880	0.17	16.8
15420239+0515389	4427879525740941056	-1.2	1.77	0.04	-17.168	-17.168	1.25	238.1
15431257+6424109	1641066429247008128	73.2	3.10	0.11	-17.218	-17.218	2.17	162.5
15433525+3739578	1376344024013884800	-6.3	0.16	0.00	18.650	18.650	0.15	36.3
15441676+0459116	4429308311037974272	-91.7	6.39	0.61	-3.586	-3.586	4.41	262.7
15452566-4444040	5988917073480792704	-6.6	1.11	0.02	-34.347	-34.347	0.18	148.9
15460715+0559221	4429522058673688192	-3.7	2.66	0.10	-15.826	-15.826	1.86	273.7
15470901+0505149	4426320800506688384	-6.4	0.22	0.00	-24.205	-24.205	0.18	50.6
15471083-4404210	5989331898604674176	...	0.27	0.01	-14.486	-14.486	0.06	29.4
15475041+6321134	1640197196585984896	-87.6	0.09	0.00	-30.458	-30.458	0.09	88.8
15482592-3959257	6008057268799998848	...	0.63	0.01	-7.404	-7.404	0.15	17.1

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
15482651+1917200	1203885900077833984	-245.2	6.97	0.78	4.213	4.213	5.27	319.5
15484895+0949113	4455582481414836096	-66.5	7.26	0.71	-8.147	-8.147	5.14	334.3
15494232+5707537	1598759730070071808	-38.4	0.14	0.00	-132.733	-132.733	0.13	73.2
15495840-4306370	5989480401391030528	6.3	0.17	0.00	-17.293	-17.293	0.05	19.1
15501637+3536243	1372799645203241856	-100.2	0.74	0.01	-28.525	-28.525	0.60	157.8
15511496+0734493	4430292717546018304	-2.3	2.27	0.08	-21.610	-21.610	1.58	237.1
15512062+0140120	4423150667969419264	31.7	0.19	0.00	4.097	4.097	0.15	42.7
15514567-3935382	6008406329380234368	-16.9	0.75	0.01	6.927	6.927	0.17	26.8
15521212-3934227	6008407257093139456	-1.9	0.61	0.01	3.418	3.418	0.14	18.7
15525776+0136148	4411131043072307456	-16.4	3.96	0.21	-7.435	-7.435	2.55	157.8
15533843+0145539	4411228560308157184	123.0	3.09	0.14	-6.501	-6.501	1.99	352.8
15541062-3255166	6015313976817734784	121.1	4.91	0.45	-4.846	-4.846	1.37	429.0
15542259-3341566	6012240773099364992	-27.7	0.36	0.00	-15.817	-15.817	0.12	43.1
15542887-3332103	6012255341628535680	-148.4	2.64	0.09	-26.231	-26.231	0.73	315.7
15545039-4652323	5987712279288235648	-18.7	0.09	0.00	36.536	36.536	0.03	24.5
15555135+1256054	1191328721374511744	43.2	4.71	0.31	-7.990	-7.990	3.34	363.4
15563950+0754021	4454167994065860352	-37.4	6.96	0.67	-4.627	-4.627	4.70	197.4
15570603+0757417	4454127621373692032	0.7	0.12	0.00	-25.364	-25.364	0.10	17.1
15583081+1505320	1192938543835309952	-18.8	0.17	0.00	10.871	10.871	0.15	105.8
15583757-3734113	6010214613689309056	...	0.24	0.00	-8.879	-8.879	0.07	13.8
15584850-3603371	6010918747795620480	-6.8	0.23	0.00	-10.204	-10.204	0.08	11.3
15591458+0507554	4425763554271082112	-3.1	5.13	0.43	-4.285	-4.285	3.34	297.5
15592133-3416261	6011940778224281856	-37.6	0.37	0.00	-9.480	-9.480	0.12	40.6
15592229-3853560	5997979351379581312	-47.4	0.79	0.01	-11.796	-11.796	0.17	65.1
15592785+0314441	4424940775976241664	-15.6	0.53	0.00	-56.624	-56.624	0.36	222.6
15593606-3220592	6036353337976099840	-2.9	0.79	0.01	-0.405	-0.405	0.24	8.3
15593767+1613419	1199172465527378176	-25.0	4.32	0.25	-17.575	-17.575	3.09	359.1
15595245-3207381	6036461468074424448	...	0.50	0.01	-110.204	-110.204	0.16	265.3
16001273+2435560	1219123340233877376	39.5	0.16	0.00	21.409	21.409	0.14	52.6
16004212+1105313	4457460855293872128	-104.8	0.11	0.00	-121.326	-121.326	0.10	122.5
16005880-3307564	6036077979033846528	19.9	0.59	0.00	0.125	0.125	0.18	20.0
16020475+0622249	4450709720758088192	20.2	0.08	0.00	36.802	36.802	0.08	66.6
16025295+3733291	1379240098985809408	-285.7	4.52	0.18	-2.446	-2.446	3.42	355.6
16025382-8226516	5768895377865607808	86.9	3.45	0.13	-7.547	-7.547	-1.26	88.8
16025490+0102272	4411633352385123840	-79.7	0.11	0.00	-122.006	-122.006	0.09	102.7
16030891+1940229	1203268485640442880	-158.0	3.13	0.13	-19.409	-19.409	2.26	377.5
16032024+1641034	1199294713178394496	-15.0	0.15	0.01	13.984	13.984	0.13	39.0
16033629+3116414	1322162667977621632	-48.7	0.26	0.00	-7.563	-7.563	0.22	61.8
16034976+0832565	4451626679096707456	-24.9	0.15	0.00	-0.702	-0.702	0.12	25.8
16040396+1841499	1200065646925933056	15.3	0.13	0.00	-63.390	-63.390	0.11	125.1
16040780+4241470	1383653195061929728	22.2	0.26	0.01	-37.358	-37.358	0.22	58.8
16042932-2253301	6242404084762732800	-24.8	0.18	0.00	-23.387	-23.387	0.09	50.9

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
16045324-2005064	6244194055324808576	...	0.37	0.00	-30.699	-30.699	0.17	58.5
16051879+1359570	1191908675099304704	-9.4	0.32	0.01	7.060	7.060	0.24	24.4
16052710+0024235	4409850528641208192	0.1	0.14	0.00	-27.148	-27.148	0.11	19.7
16052946-2543348	6043663818991262208	-3.0	0.10	0.00	-18.640	-18.640	0.06	17.6
16053749+1843052	1200145322861774080	-26.4	0.11	0.00	33.220	33.220	0.10	31.4
16055339+1944171	1203234576873824384	...	0.10	0.00	-18.528	-18.528	0.10	9.7
16060454-3508190	6034898993336955008	...	0.25	0.00	-7.601	-7.601	0.08	42.7
16061119-3620355	5998751552140270976	-27.0	0.85	0.01	6.182	6.182	0.20	33.6
16061643-3237103	6036155219728437760	25.9	0.46	0.00	20.837	20.837	0.14	54.6
16064542-3216179	6036585644175848576	...	0.90	0.04	-2.701	-2.701	0.25	21.4
16065604-3707315	5998563982328033920	14.8	0.30	0.00	12.598	12.598	0.08	21.2
16073239-2250378	6242439784523836416	-24.3	0.23	0.00	-8.200	-8.200	0.11	34.0
16073532-3208471	6036547126907295616	...	0.63	0.01	-2.706	-2.706	0.18	12.3
16074138-3314575	6035358520474835456	-13.2	0.23	0.00	4.261	4.261	0.08	14.2
16074907+1420135	4458558752013944960	-16.7	0.52	0.00	-0.786	-0.786	0.38	39.0
16080889-2943209	6041589418507890688	...	0.87	0.01	6.224	6.224	0.27	24.8
16081391-2017182	6244117639267067008	-34.6	0.33	0.00	-11.290	-11.290	0.15	39.9
16083267-3438595	6034940156304474112	...	0.79	0.01	-0.076	-0.076	0.20	19.9
16084292-2820180	6041824610913270656	38.4	0.20	0.00	13.808	13.808	0.08	46.6
16091164+3008425	1318809707269021184	-264.4	4.80	0.33	-0.854	-0.854	3.53	306.1
16101125-3446225	6034969392126840320	-15.4	0.31	0.00	2.922	2.922	0.09	30.0
16102112+0023264	4408313235288945024	-43.2	2.97	0.11	-8.139	-8.139	1.74	219.1
16102340+3952510	1379957603338177280	-65.8	0.11	0.00	84.748	84.748	0.10	120.9
16102544+1810108	1199821898940802944	-34.9	3.54	0.21	-7.497	-7.497	2.47	135.3
16103301+0031597	4408318943304571776	11.4	1.88	0.05	-9.468	-9.468	1.12	130.5
16103970-2443561	6049772323329029632	...	1.84	0.05	-23.071	-23.071	0.63	335.7
16105877-2811435	6041842237458491520	...	3.16	0.19	-9.119	-9.119	0.94	208.6
16111495-3204491	6035900167382119808	-9.1	0.30	0.00	-3.163	-3.163	0.10	33.8
16113577-1909453	6245765566678852608	-36.5	0.19	0.00	-16.128	-16.128	0.10	56.8
16114668-2427053	6049806927886876928	...	0.68	0.01	-8.758	-8.758	0.25	50.5
16121101-2818128	6042164669240420864	-0.9	0.13	0.00	-13.891	-13.891	0.06	17.7
16123013+4456046	1385790890480677376	-13.7	2.47	0.06	-21.469	-21.469	1.81	287.7
16132830-2013405	6245397122905040000	-41.4	0.29	0.00	-19.293	-19.293	0.13	48.1
16134375-2517381	6049518065566679040	34.6	0.21	0.00	4.566	4.566	0.09	43.7
16135700-2757099	6042198238705334144	7.9	0.27	0.00	2.697	2.697	0.10	18.2
16141120-2033379	6244625270041451648	-78.9	0.61	0.01	-3.673	-3.673	0.25	83.4
16150157-2339354	6050327233103808768	34.8	0.41	0.02	9.618	9.618	0.16	42.5
16150863-0734143	4348947961102169344	69.0	1.45	0.03	3.717	3.717	0.75	266.4
16154084+3326445	1322837974275568384	-150.8	2.45	0.06	-17.553	-17.553	1.79	253.4
16154634-1423377	4329332948541070976	73.3	0.19	0.00	31.508	31.508	0.11	94.3
16154808-2355376	6050304972294952064	...	0.37	0.00	-12.707	-12.707	0.15	33.1
16154986-0751166	4345832009572003840	-86.5	5.55	0.44	-8.273	-8.273	2.75	291.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
16163380+4615010	1386708295494907904	-13.5	0.25	0.00	-27.954	-27.954	0.20	42.9
16163935-3233268	6035641953958688896	-156.2	2.91	0.14	-3.452	-3.452	0.68	163.9
16164213-3256588	6035579999042793856	-143.9	0.53	0.01	-95.709	-95.709	0.14	366.2
16165205-2154235	6242759089572065920	76.9	0.17	0.00	-23.252	-23.252	0.08	80.4
16171415+1832404	1200608324633174784	-174.7	1.69	0.04	-28.344	-28.344	1.16	340.9
16173056-1932253	6245550268557026432	-17.3	0.20	0.00	-24.152	-24.152	0.10	39.6
16173244+0248331	4436119304542479616	-147.8	4.85	0.29	-9.079	-9.079	2.82	262.3
16173704+3125396	1319323522796448512	-148.8	5.02	0.28	-0.774	-0.774	3.59	154.6
16175168-3344503	6023449568284510592	7.2	0.21	0.00	-18.579	-18.579	0.07	29.8
16175506-2501165	6048881207813795456	-47.9	0.34	0.00	-8.452	-8.452	0.13	51.4
16180650-1903385	6245955610391354880	-3.2	0.15	0.00	25.535	25.535	0.08	30.0
16194310-0224311	4358730552275110272	-226.0	1.15	0.02	-15.097	-15.097	0.63	276.1
16195744+3711488	1330482668168550016	-5.5	0.19	0.00	-19.824	-19.824	0.16	15.5
16201273+8036085	1710329438388205824	-104.9	2.05	0.04	-8.357	-8.357	1.13	107.6
16201770+4208508	1382053238141320192	-22.9	0.12	0.00	34.852	34.852	0.11	29.2
16202566+0328284	4436260965440303232	-15.8	0.10	0.00	-35.910	-35.910	0.08	29.6
16203416+3132541	1319232263331506304	6.6	0.09	0.00	-38.354	-38.354	0.09	16.7
16203444-2056578	6244454330343783936	46.7	0.30	0.00	-7.170	-7.170	0.13	47.8
16204714-2606162	6048548399391137152	...	1.15	0.03	1.219	1.219	0.36	11.7
16204887+7014507	1652927273492300160	...	0.17	0.00	30.019	30.019	0.13	33.2
16211341+3512582	1329412882010974976	-13.4	0.12	0.00	14.326	14.326	0.11	15.6
16213044-7002350	5807311386428745984	-57.6	1.05	0.01	3.205	3.205	-0.23	59.1
16213929-7135317	5806920991081963136	...	8.71	0.71	-1.159	-1.159	-2.26	154.9
16220240+0700378	4439734017734002944	-236.8	4.13	0.22	-10.719	-10.719	2.47	334.5
16221768+1134274	4459979806371200512	-1.3	3.49	0.21	-6.206	-6.206	2.18	122.9
16224822+5100127	1423692705557972992	-32.5	0.08	0.00	-91.008	-91.008	0.08	39.8
16225698-3234118	6025040458531718016	-7.8	0.23	0.00	-3.548	-3.548	0.07	9.3
16231806-3110431	6037281562002354048	...	1.21	0.03	3.160	3.160	0.29	16.5
16232673+0535156	4437155113207686400	-21.4	...	...	...	...	0.03	21.4
16234350+2958278	1318193396641660544	...	0.91	0.05	-8.848	-8.848	0.66	132.6
16241901+0630059	4439457593640443392	-88.4	6.60	0.72	-11.848	-11.848	3.86	428.9
16243746+8055162	1710372289277885440	1.6	0.25	0.00	-62.945	-62.945	0.16	67.5
16244834+1804359	4467003074331962880	-136.6	1.41	0.03	-3.775	-3.775	0.94	148.7
16251518+0520267	4437084641390808960	-163.2	7.54	0.94	-1.720	-1.720	4.32	467.0
16253573-0834395	4350830702966299648	33.8	2.14	0.08	-6.353	-6.353	1.00	162.9
16254695-3354120	6023951392267153408	8.5	0.29	0.00	-5.305	-5.305	0.08	10.7
16254871-1359117	4328986293140183680	124.6	1.91	0.07	-29.107	-29.107	0.79	435.6
16260791-2025280	6052684487252718080	...	0.97	0.02	7.601	7.601	0.35	37.7
16260857+3126550	1324425389891741696	-51.9	0.13	0.00	-68.050	-68.050	0.11	65.8
16263668-0628581	4352076965036319872	-21.6	0.12	0.00	-28.798	-28.798	0.08	35.4
16270418+0322290	4433540296934619520	-428.2	4.47	0.34	-10.165	-10.165	2.48	488.6
16272230+3655279	1331122622592397568	-240.2	3.28	0.11	-14.621	-14.621	2.30	323.5

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
16272250-0848362	4350762533245253632	112.6	3.55	0.19	0.554	0.554	1.61	271.7
16272730-1210551	4331507503365927680	31.7	0.17	0.00	11.653	11.653	0.09	34.1
16272732+1123305	4459078580497051136	-46.8	0.16	0.00	-81.786	-81.786	0.12	75.3
16274702-3314031	6024841279438699008	-24.3	1.10	0.03	-1.465	-1.465	0.23	26.1
16283300+1722329	4467079971426476160	14.7	4.54	0.34	-4.376	-4.376	2.89	201.7
16290198+1430507	4463821083383973760	...	8.67	0.93	-1.388	-1.388	5.37	245.1
16293666+0213503	4432101100636150400	8.7	0.19	0.00	-15.748	-15.748	0.13	21.3
16300807+3459161	1326275047622823552	43.3	0.10	0.00	-134.903	-134.903	0.09	67.4
16302614-3342496	6024015541893607808	-22.4	0.54	0.02	-11.408	-11.408	0.12	43.6
16303876+1329513	4460685211799513600	-186.7	3.93	0.19	-15.147	-15.147	2.40	335.9
16305318+4405187	1405543067118031488	-91.1	0.14	0.00	-22.423	-22.423	0.12	93.4
16312561+1408014	4460744722866525824	-15.0	0.14	0.00	-2.317	-2.317	0.11	15.6
16320549+0401083	4433503532014896512	7.5	1.06	0.01	-8.858	-8.858	0.60	161.1
16322157+1615449	4465786018039320320	-117.3	3.95	0.21	2.891	2.891	2.46	429.5
16323169+1555079	4465571613272013440	-189.4	3.18	0.11	-13.931	-13.931	1.97	371.4
16325211-8327479	5768596864756350976	-29.3	0.66	0.00	4.305	4.305	-0.24	45.1
16325439-7525259	5781162663455262080	-50.2	0.58	0.00	7.247	7.247	-0.16	81.2
16333188+5906052	1623752935039977088	-291.0	3.99	0.19	0.335	0.335	2.62	454.7
16341169+4636439	1407185565691196672	-11.6	0.10	0.00	-3.054	-3.054	0.09	14.0
16342046+1157567	4459450868260931456	-193.9	1.68	0.03	-24.727	-24.727	1.01	291.5
16343097+0620345	4438931438666007296	-107.0	7.03	0.66	-5.367	-5.367	3.88	301.0
16344239+2231419	1298095453661818880	16.7	0.12	0.00	12.655	12.655	0.10	48.5
16350481+1137192	4459250349123575808	-258.9	6.61	1.02	-1.455	-1.455	3.86	273.7
16352407-3359508	6024133674994546944	...	0.39	0.00	-1.773	-1.773	0.09	3.0
16353942+1442022	4462370655749089792	-80.9	0.17	0.00	-33.920	-33.920	0.13	85.2
16354720+1246210	4459657718184334720	-42.8	0.18	0.00	-24.072	-24.072	0.13	66.4
16360774+5058387	1411871031413851648	11.9	0.25	0.00	19.143	19.143	0.19	45.5
16373418+3852001	1331616986212008192	-65.0	3.02	0.08	-5.035	-5.035	2.04	332.7
16374852+0734375	4439132546216071296	-0.2	0.48	0.00	-6.806	-6.806	0.29	73.1
16382363-6644037	5815570715927353216	4.5	0.20	0.00	5.385	5.385	-0.02	17.2
16383378+0540276	4435778760872577024	14.3	0.18	0.01	-6.993	-6.993	0.12	18.4
16384693+1812116	4562485587504234880	-110.4	3.37	0.12	-2.475	-2.475	2.06	287.3
16385168+1723396	4466157103214240256	118.1	2.58	0.07	-19.849	-19.849	1.57	260.1
16385848+3000087	1311872265637358336	-49.7	0.15	0.00	-13.715	-13.715	0.12	52.2
16391895+0338467	4434135338883534336	...	0.16	0.00	-11.506	-11.506	0.11	33.0
16393846+0740507	4445130901837683584	-68.1	0.18	0.00	-47.359	-47.359	0.12	80.6
16394169+4228154	1356989076015732864	-181.8	5.45	0.24	-1.084	-1.084	3.65	184.9
16394396+4249163	1357571404861995136	...	5.85	0.30	-4.892	-4.892	3.91	256.8
16402468+1550407	4462850115836027648	-8.4	3.38	0.17	-10.449	-10.449	2.01	183.3
16413086+2631045	1301433231662419840	-85.8	3.55	0.13	-2.411	-2.411	2.27	238.9
16414836+1216122	4460825777486994048	21.3	2.21	0.16	-39.669	-39.669	1.27	415.3
16420651+2604225	1301214463209079040	44.5	0.11	0.01	56.501	56.501	0.09	52.2

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
16421928+2344032	1299750291677336960	...	4.68	0.24	-5.704	-5.704	2.92	224.7
16423938-8306366	5768700008393198464	...	2.32	0.06	-12.141	-12.141	-0.89	63.4
16430853+0426005	4434657430811775232	...	0.18	0.00	30.653	30.653	0.11	26.1
16432853+1024103	4446900634521443584	76.1	5.03	0.34	-6.755	-6.755	2.77	183.7
16435657+3232386	1314234398867571072	-85.4	4.15	0.16	-8.464	-8.464	2.68	183.6
16440315+1154212	4448745095340450944	14.4	0.15	0.00	-0.458	-0.458	0.11	37.8
16443996-7951474	5775442729091999616	299.9	3.99	0.16	-16.199	-16.199	-1.44	352.1
16461012+3554551	1327313154102801664	-99.9	4.51	0.25	-2.786	-2.786	2.92	193.6
16462075+1719330	4559215674287937536	-39.1	0.18	0.00	9.798	9.798	0.13	40.7
16462090+0333477	4433981853933019264	...	3.75	0.25	-18.988	-18.988	1.86	338.5
16464088+0311203	4385915672332609280	17.6	0.13	0.00	-40.919	-40.919	0.09	42.8
16471020+5015587	1412373954904373760	-114.0	2.31	0.06	-10.385	-10.385	1.51	136.4
16472419+1507161	4461858837385161088	-29.0	0.15	0.00	-129.084	-129.084	0.11	91.8
16472795+2336019	1299862235704972928	-236.6	2.35	0.05	-6.087	-6.087	1.44	293.4
16474061+1340279	4461395668115705344	-168.6	5.46	0.46	-10.780	-10.780	3.04	502.5
16482585+4245290	1356678949313407360	16.5	1.10	0.01	-5.920	-5.920	0.73	28.7
16483067+5232124	1413923647824211456	...	1.01	0.01	3.562	3.562	0.67	14.0
16485963+2050021	4564767112786411648	-108.2	0.15	0.00	-43.513	-43.513	0.11	111.9
16491646+1922215	4562883030895304960	-39.7	1.48	0.05	2.845	2.845	0.88	434.0
16492419+1810509	4559694756410004480	-38.9	0.16	0.00	49.132	49.132	0.12	84.3
16501693+3227048	1314079917484186880	-240.6	5.36	0.27	-7.607	-7.607	3.36	292.5
16501966+2135346	4565674033785572096	-447.4	3.55	0.17	-16.750	-16.750	2.10	518.9
16505552+5951110	1438058374730240256	-225.9	6.78	0.56	-12.560	-12.560	4.22	372.9
16510088+3648458	1351373148578890624	34.5	0.31	0.00	9.025	9.025	0.22	36.3
16511460+5352298	1426065314211359488	23.9	3.19	0.12	-12.507	-12.507	2.04	249.0
16514772+3844288	1352397519754683136	-155.8	3.00	0.09	-10.699	-10.699	1.92	211.9
16523005+0311543	4386055756985792640	-110.2	5.39	0.49	-6.969	-6.969	2.54	309.7
16534583+2531166	1306113268546500352	34.3	0.09	0.00	20.450	20.450	0.08	36.5
16534773+3049290	1312862856894855040	...	3.23	0.13	-11.851	-11.851	1.99	240.3
16545744+2603567	1306294683667797248	0.2	0.11	0.00	78.702	78.702	0.09	67.2
16553977-8810318	5765193738828393600	84.4	5.72	0.36	-4.622	-4.622	-2.50	120.2
16563138+3921373	1352143528272068864	-286.0	3.94	0.15	-5.390	-5.390	2.47	312.2
16563406+1516544	4545782356611145728	-284.1	3.86	0.20	-4.422	-4.422	2.08	295.2
16574714+4326284	1358072923898101120	-22.8	0.09	0.00	-53.204	-53.204	0.08	30.0
16581141+4516190	1359217446784103296	-6.2	0.23	0.00	-19.060	-19.060	0.17	32.4
16583722+0153432	4384878175734959744	...	1.68	0.06	-18.636	-18.636	0.75	197.1
16590140+2521558	4572761867992849920	-85.5	3.60	0.13	-11.653	-11.653	2.09	236.1
16591231-5353249	5935760874615991808	...	0.10	0.00	-22.899	-22.899	0.01	40.1
17001311-7651059	5777695868934489600	...	0.68	0.01	3.600	3.600	-0.21	51.3
17024781+2559130	4573174150493770368	-25.3	6.02	0.36	-10.097	-10.097	3.43	263.5
17034238+4012376	1353472361090529536	-4.3	0.19	0.00	18.856	18.856	0.14	26.8
17034776+2709455	4573403428730280064	-49.9	0.24	0.01	-12.216	-12.216	0.16	51.6

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
17035954+4513186	1358789148349761152	-420.9	1.96	0.04	-7.745	-7.745	1.21	445.2
17041564+1932115	4560834812533156480	24.0	5.48	0.34	-8.217	-8.217	2.93	216.0
17041979+6325224	1631229304871201024	-211.5	5.29	0.28	-5.158	-5.158	3.13	224.0
17042385+6726017	1636646151984790784	-8.1	0.12	0.00	-51.571	-51.571	0.09	34.4
17045983+1948039	4561595434057474304	-132.4	5.11	0.38	-8.488	-8.488	2.73	268.0
17054252-6742414	5814397399577566848	-15.8	0.82	0.01	2.974	2.974	-0.20	18.7
17060632+6430248	1632107986461148928	-182.5	3.58	0.14	-3.431	-3.431	2.11	257.4
17095788+4825288	1414140487836898048	-7.0	0.25	0.00	-11.781	-11.781	0.17	15.4
17104782+4615401	1364943737701366144	...	0.54	0.00	-27.729	-27.729	0.35	72.1
17115737+4056337	1341931337289579648	-35.2	0.21	0.00	-14.968	-14.968	0.15	45.4
17125716-2214215	4115322081195173248	-46.3	0.31	0.00	-13.921	-13.921	0.08	50.2
17130596-3442468	5978819326162668288	-4.8	2.23	1.37	-3.436	-3.436	0.12	30.3
17130931+4245360	1354380420256070272	...	0.29	0.00	-11.431	-11.431	0.19	14.1
17133146+5029289	1414644171538142464	-27.1	0.24	0.01	-22.751	-22.751	0.17	37.8
17134640-2252270	4114531910303984896	-7.7	0.71	0.01	-2.636	-2.636	0.14	26.5
17134904+4643336	1364979746707350016	-281.0	4.99	0.31	-2.161	-2.161	2.94	285.0
17151412-2251434	4114489441664092160	-33.8	0.26	0.00	6.676	6.676	0.07	40.3
17154790-5232570	5925618184739644160	-119.1	3.51	0.17	-21.258	-21.258	-0.48	392.6
17160251-2205199	4114972844488807680	-73.4	0.15	0.00	-40.277	-40.277	0.05	84.3
17162512+4249078	1360187452261689472	-40.3	0.75	0.01	-43.687	-43.687	0.45	133.1
17163270+4302287	1360381309905667840	...	0.13	0.00	-12.091	-12.091	0.10	10.6
17163966-8711235	5765345368353739392	47.9	1.58	0.03	-25.556	-25.556	-0.67	244.0
17174451+3653087	1339989290517076096	...	2.31	0.07	-8.774	-8.774	1.31	83.5
17185527+3839047	1340720740627444096	-25.3	0.17	0.00	-12.911	-12.911	0.12	26.6
17192865-6853306	5811209090730279680	24.7	0.40	0.00	-21.319	-21.319	-0.09	53.6
17194406+4515228	1361644549983238272	-69.5	3.92	0.16	-4.442	-4.442	2.25	124.0
17212704+5033288	1414790574087583360	-137.6	7.86	0.66	-6.514	-6.514	4.49	304.4
17215395-6411338	5814091284361742976	98.3	4.69	0.26	-3.071	-3.071	-1.21	133.8
17215498+1423078	4543224965582361984	-106.9	3.72	0.16	-7.078	-7.078	1.67	279.5
17224220+0353126	4389167576754184192	-179.5	3.14	0.14	-10.172	-10.172	1.17	325.8
17234737-5834124	5916061474500671232	117.6	2.55	0.15	17.354	17.354	-0.52	212.0
17240759+3635398	1337102866336482688	...	3.52	0.14	-8.225	-8.225	1.92	256.6
17251201-7832462	5776783519098670464	1.6	0.08	0.00	27.731	27.731	0.00	10.8
17252775+5318307	1416272239020984576	-225.4	2.84	0.09	-6.598	-6.598	1.62	300.1
17254679-8513010	5767118193414597632	...	0.81	0.01	-8.340	-8.340	-0.32	99.5
17255611+1556131	4543997853536251264	-21.3	0.72	0.01	-2.459	-2.459	0.34	47.2
17265179+3527349	1335862475484040064	-30.2	4.22	0.18	-4.771	-4.771	2.25	268.5
17272663+3847099	1343578233909298816	...	0.40	0.01	15.982	15.982	0.24	96.5
17283154-6945443	5810934625139045248	-8.5	0.48	0.00	-2.646	-2.646	-0.13	30.2
17285162-6941036	5810941016050593536	225.5	2.30	0.10	2.581	2.581	-0.71	291.5
17285482-5720440	5919234390177666304	-2.9	0.15	0.00	-35.900	-35.900	-0.01	53.9
17291858+7510248	1655949551783195520	-173.9	7.86	0.57	-3.397	-3.397	4.12	199.2

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
17292254+0305472	4388901086920961024	-43.9	2.96	0.16	-12.370	-12.370	1.02	373.8
17293008+5534560	1421238419509501568	-282.0	3.19	0.11	-4.169	-4.169	1.79	319.8
17303697+0421414	4389421362079616512	-11.6	6.33	0.51	-4.477	-4.477	2.19	137.0
17314553+2843156	4598739479466205568	...	1.79	0.03	-14.515	-14.515	0.89	231.0
17315874-5342306	5921618165752908928	135.3	1.79	0.06	-14.685	-14.685	-0.31	222.1
17330791+2548590	4594030404311114240	-26.6	0.17	0.01	-64.286	-64.286	0.10	61.6
17331311+1713463	4550007577936164864	...	0.15	0.00	-18.220	-18.220	0.09	25.3
17331323+3152308	4601590066440260096	-165.3	4.35	0.19	0.838	0.838	2.17	235.8
17332654+2633432	4594840366419966208	42.1	1.72	0.03	-2.762	-2.762	0.83	47.1
17333170+5456025	1420926742322768640	-13.0	0.12	0.00	-1.866	-1.866	0.09	17.1
17333194-5022586	5946394938738915584	-150.3	2.37	0.08	-4.026	-4.026	-0.36	382.1
17334423+1911331	4553866722012938496	-2.1	0.21	0.00	-0.653	-0.653	0.11	2.2
17334679-6744028	5813027335062608384	-11.3	0.60	0.00	-5.799	-5.799	-0.16	39.5
17335350+1815568	4550692088345948672	-279.7	3.57	0.15	-5.097	-5.097	1.53	458.1
17335522+1719221	4550032381370693376	-2.8	0.10	0.00	-0.847	-0.847	0.07	4.4
17355093+1411487	4542596697766095232	...	0.25	0.00	-2.973	-2.973	0.12	8.9
17370392-7408233	5803200381170398336	-3.4	0.21	0.00	-2.489	-2.489	-0.05	26.4
17371472+1603347	4549079418323779712	-22.1	1.06	0.11	-4.736	-4.736	0.45	95.1
17373165+0109351	4375387436181302912	-161.1	1.43	0.04	-15.205	-15.205	0.44	242.2
17374593-4903259	5946896105559051392	...	0.32	0.00	14.056	14.056	-0.03	15.0
17381613+1806130	4550553412442483456	-30.3	0.92	0.02	-6.533	-6.533	0.40	56.7
17382795+8319481	1711261033974731648	-40.8	0.17	0.00	-45.355	-45.355	0.11	154.6
17390078-7342041	5803233817494625536	173.5	3.46	0.45	-6.853	-6.853	-1.22	275.6
17390590+1504553	4548685209048009600	...	3.71	0.26	-4.858	-4.858	1.45	101.0
17393096-5334586	5921761544627396352	21.3	2.36	0.09	3.194	3.194	-0.46	203.5
17412217-6605479	5812858972344007680	50.8	3.89	0.28	-11.114	-11.114	-1.17	411.0
17412978+2128403	4556052314917665920	-18.1	0.61	0.01	-14.185	-14.185	0.28	42.7
17415044+2448137	4581633552441283328	30.8	3.69	0.16	-11.574	-11.574	1.62	187.8
17421570-5343061	5921703652781168768	18.5	2.90	0.19	2.954	2.954	-0.59	246.3
17422649+3217551	4601113221991774976	4.0	0.17	0.00	21.693	21.693	0.11	19.7
17425789+0417381	4473307880166709248	5.1	2.54	0.09	-9.300	-9.300	0.78	145.8
17431049+5633516	1421354113045323904	-56.8	0.12	0.00	-10.778	-10.778	0.09	99.5
17435113-5359333	5921684136450078592	23.1	2.45	0.09	3.374	3.374	-0.51	205.3
17442011+0827068	4488216467565808512	-122.7	1.31	0.03	-1.522	-1.522	0.45	153.3
17442313+1055585	4489909058337283584	-9.5	0.16	0.00	-1.873	-1.873	0.08	15.3
17451045+1600587	4501194587422903936	-26.5	0.20	0.00	-4.210	-4.210	0.10	27.2
17452465+0613284	4474168965270090368	...	5.11	0.33	2.179	2.179	1.56	112.9
17452911+0549214	4474076782390335616	-111.6	2.00	0.07	-3.599	-3.599	0.62	414.2
17460256+1657355	4549397894441550848	-13.3	0.94	0.02	-0.624	-0.624	0.38	14.0
17465957+1519406	4501077351995658496	16.2	3.32	0.15	-13.038	-13.038	1.22	203.0
17470290-5058143	5945699978662588416	-16.9	0.17	0.00	-59.345	-59.345	-0.01	34.2
17471725-6723320	5812356121877182080	451.0	4.92	0.34	-0.375	-0.375	-1.58	480.6

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
17471835-0035363	4371256532336413056	-19.3	0.13	0.00	-18.048	-18.048	0.06	22.9
17472373+5750230	1422587593292960640	-270.0	7.75	0.65	-3.173	-3.173	4.03	291.6
17473698+5229473	1368840406910596992	-98.7	2.43	0.06	-3.127	-3.127	1.27	136.9
17485598-7415094	5803007691756413056	17.1	5.32	0.33	-11.176	-11.176	-1.96	172.8
17493006+1616540	4501261550253801344	-24.5	2.43	0.07	0.557	0.557	0.89	77.0
17493192-5314272	5921036111776622592	276.7	1.45	0.03	-11.607	-11.607	-0.30	311.6
17505960+1845110	4551354475384137600	-134.2	4.31	0.21	-2.259	-2.259	1.60	183.4
17512033+4313226	1346347658884884608	-106.6	0.08	0.00	-103.019	-103.019	0.06	132.6
17513368+0735474	4475867611955393280	67.8	0.35	0.00	21.239	21.239	0.12	114.8
17514375-8447409	5767473713627782016	-20.5	2.42	0.07	-0.552	-0.552	-1.02	160.9
17515635+0549550	4473933497983061632	...	0.18	0.00	-1.057	-1.057	0.07	14.3
17530760+0355502	4472708298435677312	-35.4	0.24	0.00	29.640	29.640	0.09	49.7
17531820-5828173	5918003040226875648	159.0	2.80	0.10	-2.124	-2.124	-0.74	161.0
17553087+1344549	4499700449901916672	-9.6	3.31	0.14	3.149	3.149	1.08	116.6
17563856-6259025	5911002106095737472	-33.9	0.17	0.00	17.245	17.245	-0.03	66.5
17570985+6104567	1435424254107968896	-33.1	2.44	0.06	-0.206	-0.206	1.24	62.0
17580876-5017025	5947067839841987840	...	3.81	0.23	-1.227	-1.227	-0.81	14.7
17582442-5200036	5945364387093681024	256.6	3.65	0.38	-6.465	-6.465	-0.83	298.5
17583367+0851134	4476514330950969216	-94.0	2.82	0.12	9.633	9.633	0.79	328.2
17590214+0226114	4468887736043966848	...	0.14	0.00	-6.958	-6.958	0.06	4.6
17593067+0547081	4474462912835838336	-18.9	0.12	0.00	11.285	11.285	0.06	22.5
17595240+0845349	4476464986070993664	20.6	3.85	0.26	3.315	3.315	1.05	143.7
17595579+0402394	4469713473577956352	11.0	2.28	0.09	-7.780	-7.780	0.55	90.8
18004880+4241389	2113828593508701696	28.1	0.33	0.00	-3.831	-3.831	0.18	68.2
18012521+1607266	4501806912321934592	7.5	0.61	0.01	-1.925	-1.925	0.21	9.4
18013011-6117020	6635006422507626880	...	0.26	0.00	-14.125	-14.125	-0.05	53.3
18015056-5628090	6651913342230612608	10.3	0.28	0.00	12.413	12.413	-0.05	14.5
18025682-7550189	6414540257944747008	...	0.52	0.00	-6.146	-6.146	-0.18	10.7
18033495+4211510	2113756098755468288	-132.3	2.83	0.08	13.460	13.460	1.28	298.9
18042621-7447453	6417661629719563264	169.9	3.17	0.10	-3.183	-3.183	-1.22	176.4
18042842-7051331	6431507302910109952	-38.7	3.41	0.11	-6.868	-6.868	-1.24	225.3
18045298-5543550	6652206220339855104	-55.9	5.36	0.39	0.375	0.375	-1.45	347.0
18045953+0826177	4476206639494994944	-131.7	1.82	0.05	-7.197	-7.197	0.47	164.0
18052892+0754210	4475421897432191616	-166.7	3.57	0.23	-3.849	-3.849	0.88	285.4
18062441-6457049	6629637992566177664	50.3	0.13	0.00	37.876	37.876	-0.02	111.8
18063457+0547198	4471868065390279680	111.1	1.09	0.03	-17.779	-17.779	0.26	346.4
18072175+5952412	2158636960809774336	-38.1	0.14	0.00	-7.218	-7.218	0.09	69.6
18073369+5849547	2152484604840257280	-16.0	0.14	0.00	35.332	35.332	0.09	45.4
18082002-5104378	6702907209758894848	...	0.60	0.01	-5.741	-5.741	-0.12	37.4
18083624-6750220	6435985682492232320	-0.5	0.22	0.01	-32.418	-32.418	-0.05	19.0
18085682-2106299	4094063947258804608	-18.6	0.82	0.01	0.257	0.257	0.02	27.3
18095421-6630506	6437097494904121600	20.1	0.52	0.00	-2.027	-2.027	-0.16	26.6

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
18100815-6731119	6436045915114732672	...	0.36	0.00	-13.760	-13.760	-0.11	19.1
18102490-7119083	6431254307857238784	-14.9	0.66	0.00	1.233	1.233	-0.23	129.1
18123519-6033510	6635102251817906304	-51.4	...	...	...	...	0.03	51.4
18124977+5854462	2152380494834185984	-193.8	4.37	0.18	-0.369	-0.369	2.07	193.8
18135644+4824196	2122140905709563904	-37.1	0.14	0.00	8.068	8.068	0.09	66.2
18141754+1612114	4498809506188122624	...	0.74	0.01	1.879	1.879	0.22	30.2
18145902+5852559	2152342188021376384	-69.6	0.19	0.00	-30.116	-30.116	0.11	85.8
18150365-3751206	6727766450449365248	-80.6	3.74	0.20	-12.805	-12.805	-0.61	218.5
18162072-4725281	6707603223921252608	174.6	2.46	0.11	-15.213	-15.213	-0.57	254.2
18165208+6146498	2159095113561329024	-33.0	4.83	0.21	5.399	5.399	2.27	193.4
18171654+1311582	4485396250300800768	-13.1	0.34	0.00	-2.444	-2.444	0.10	22.3
18190641-6824118	6432812045255424128	...	2.80	0.61	5.285	5.285	-1.03	140.7
18191919-2029254	4091364130814956032	...	1.10	0.03	1.623	1.623	-0.02	11.9
18192007-5552473	6649365494611393920	-10.7	0.43	0.00	-4.177	-4.177	-0.11	26.9
18193127-3713134	6728130968571404800	-179.4	2.26	0.09	0.705	0.705	-0.38	274.4
18194826-5310564	6653631805885843200	225.9	2.00	0.05	-9.218	-9.218	-0.56	252.9
18203066-2016012	4091455699522188416	-16.2	0.13	0.00	-11.030	-11.030	0.02	18.2
18204921-3419480	4044557100560972800	-144.8	2.88	0.19	-1.275	-1.275	-0.43	145.6
18211549+5653298	2150956936513301632	-299.5	3.67	0.12	-4.801	-4.801	1.66	363.4
18220774-7608090	6413638383531665664	...	0.20	0.01	-0.483	-0.483	-0.06	21.1
18223327-5258169	6653722004497397120	53.0	0.11	0.01	-32.014	-32.014	-0.01	55.8
18231998-3926193	6726604713316398336	184.6	4.55	0.33	-12.030	-12.030	-0.91	485.7
18232072-7312133	6418085663251356416	21.7	0.25	0.00	0.782	0.782	-0.08	30.9
18273263-5638304	6648380469631584128	5.4	0.61	0.01	-49.945	-49.945	-0.18	393.4
18274709+1732530	4522680968780032128	-34.1	2.79	0.11	-6.930	-6.930	0.65	200.9
18285509-3410250	6734946570607247360	-6.7	0.10	0.00	12.845	12.845	0.01	10.2
18293868-2010483	4092688806190705152	-68.0	0.30	0.00	-13.222	-13.222	0.00	71.8
18301354-4555101	6708532208165979392	61.3	2.90	0.11	7.805	7.805	-0.76	134.8
18302241-3955233	6723716880376076928	206.6	3.47	0.17	-0.126	-0.126	-0.77	268.6
18305087-6953306	6431994249123338240	2.0	0.47	0.00	-9.323	-9.323	-0.16	49.8
18311217+4103160	2110452925308798080	-143.6	5.53	0.33	-7.560	-7.560	2.01	230.9
18315993-6920161	6432068225640386432	309.6	3.11	0.15	-12.102	-12.102	-1.22	327.9
18321423-3829407	6726896461847358848	1.1	5.99	0.64	-0.559	-0.559	-1.33	34.3
18324025-6202554	6631161743881174400	139.1	2.54	0.08	-10.368	-10.368	-0.91	182.5
18334251+4115292	2110471101610527616	...	0.22	0.00	-24.160	-24.160	0.10	41.2
18340800-5627514	6649667246135478144	8.4	0.14	0.00	3.095	3.095	-0.02	26.0
18352484-3639135	6733341416736455936	...	0.95	0.01	-33.884	-33.884	-0.19	228.2
18352710-4928306	6703851728906337152	...	2.17	0.10	-17.084	-17.084	-0.64	303.0
18354018-3948416	6723580609650147712	188.7	1.15	0.02	-2.840	-2.840	-0.26	206.3
18360814+1919587	4524742759245230592	-192.4	2.80	0.14	-8.504	-8.504	0.60	434.8
18361214-7333443	6418205892271978624	41.9	2.76	0.11	-7.782	-7.782	-1.13	53.3
18371329-3141091	4046640705089371136	...	3.16	0.19	-7.107	-7.107	-0.58	184.0

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
18373068-5538076	6649914292651257984	213.7	2.93	0.15	-9.451	-9.451	-0.99	227.1
18395804+4820336	2119887903305583104	-180.0	6.17	0.35	-3.741	-3.741	2.31	207.3
18404278-5822181	6636472453764175744	7.3	0.75	0.01	-3.289	-3.289	-0.25	83.3
18405632+5805144	2154314260908589184	-303.8	2.64	0.08	-5.700	-5.700	1.10	316.0
18411282-6105584	6632762873329420544	146.8	3.95	0.28	-11.943	-11.943	-1.48	214.7
18430593-7820300	6364899129015765248	3.1	0.12	0.00	-5.379	-5.379	-0.03	29.0
18462350-4939426	6656086710412617344	-9.8	0.18	0.00	-2.305	-2.305	-0.03	27.0
18482959-4911163	6656206965197014272	30.9	0.55	0.01	-7.929	-7.929	-0.16	46.6
18490576-5304063	6651390073476420736	...	0.28	0.00	4.638	4.638	-0.07	28.1
18491122+4005588	2098297480667292160	-26.3	0.38	0.02	11.660	11.660	0.14	42.5
18512136+5319111	2146237458947371520	-211.0	1.58	0.02	0.933	0.933	0.60	374.1
18515139+7849432	2293311669034242432	20.3	3.07	0.11	-6.730	-6.730	1.40	340.0
18523585+4032042	2103587162389240064	-9.7	0.21	0.01	3.409	3.409	0.09	37.7
18523981+4129288	2104473093882735104	...	3.98	0.17	-3.727	-3.727	1.21	118.5
19024429+5351114	2134680487931467648	-10.7	0.26	0.00	2.880	2.880	0.11	25.0
19025533+4219090	2104015387809994496	-205.6	2.41	0.05	-7.562	-7.562	0.69	215.4
19032297-4757304	6662155460541591424	10.2	0.14	0.00	-1.413	-1.413	-0.03	47.2
19035178-5108429	6657682239223060736	257.9	5.43	0.63	-9.781	-9.781	-2.07	431.0
19044854+5029122	2133638842399952256	...	1.78	0.03	-5.061	-5.061	0.59	27.4
19052503-7826440	6364286563599950592	-17.5	0.42	0.00	-1.079	-1.079	-0.17	42.4
19055032-5206090	6656823172744784384	-297.5	6.65	0.68	-3.014	-3.014	-2.60	381.3
19060062-5118110	6657644374791106304	...	7.82	0.83	4.610	4.610	-3.04	276.4
19060226-6310122	6438853483690577024	-0.9	0.40	0.00	6.834	6.834	-0.15	18.7
19120066-6302562	6438895574370061568	...	5.98	0.45	1.986	1.986	-2.62	545.6
19131047+3313392	2043394428389668992	-89.5	4.30	0.18	-10.875	-10.875	0.80	221.9
19155183-4922541	6658254874322598016	293.8	1.86	0.05	-28.380	-28.380	-0.73	336.2
19155497+4038463	2101342715562410240	-212.9	3.64	0.12	-14.158	-14.158	0.84	284.2
19160765+4246319	2102705938181969408	-297.3	2.21	0.06	-1.378	-1.378	0.56	297.8
19184233+8121549	2295494715010792576	7.3	0.60	0.00	19.794	19.794	0.29	30.2
19214950-7947382	6361002631604746752	...	0.42	0.00	7.805	7.805	-0.17	8.1
19232375+4720104	2129167334770344704	-53.9	7.76	0.60	-4.346	-4.346	1.98	155.7
19233833+4018284	2101121026531480960	...	4.82	0.24	5.064	5.064	0.99	88.8
19242686+8215294	2295685828172114688	...	0.45	0.00	4.793	4.793	0.22	68.9
19253278-2828581	6764789893132461568	...	1.88	0.10	1.306	1.306	-0.60	27.0
19275678+3601156	2049957756892384256	-60.2	0.39	0.01	0.266	0.266	0.09	61.0
19280042+4614069	2126804793521418112	...	5.88	0.38	0.812	0.812	1.39	68.6
19281201-2900223	6764699423940862080	101.4	5.01	0.41	-10.713	-10.713	-1.70	335.4
19281988-6339344	6441410874720278272	-108.3	3.03	0.12	4.836	4.836	-1.40	175.9
19333143+8023242	2295227331824267136	-24.3	0.71	0.00	10.229	10.229	0.33	27.7
19352572+5114261	2136022446171534848	-20.1	0.12	0.00	20.497	20.497	0.06	29.1
19375420+5750304	2238305511775896064	-30.1	0.20	0.01	-38.550	-38.550	0.08	37.7
19383369+4309290	2077979845822635648	-22.4	0.31	0.01	5.657	5.657	0.08	23.5

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
19411203-4509560	6684605636852993408	-105.2	6.41	0.55	6.520	6.520	-2.91	222.2
19423665+0502288	4290628386915732736	-215.7	2.28	0.09	18.507	18.507	-0.33	340.7
19433935+7749001	2291495585062080640	-169.5	4.55	0.21	-11.151	-11.151	1.86	236.6
19440238-4515172	6684633743118584064	...	5.62	0.50	-4.099	-4.099	-2.60	333.1
19460015-4844202	6671059481799424000	25.5	2.61	0.12	1.154	1.154	-1.23	231.0
19481329-4903448	6670987390771270912	144.6	4.08	0.20	-12.634	-12.634	-1.96	365.1
19491264+0358174	4242240117122573440	-86.9	0.19	0.00	19.953	19.953	-0.01	151.7
19493291+1245526	4305164750954492032	-55.6	2.86	0.11	-5.815	-5.815	-0.31	479.4
19501371-7714505	6365989359218055680	...	0.73	0.01	11.073	11.073	-0.33	54.9
19512662-5013221	6669955297247174784	-54.9	1.94	0.05	4.358	4.358	-0.94	308.3
19523317+4918292	2086984326351707008	...	0.17	0.00	11.316	11.316	0.06	8.6
19533677-4832517	6670382182636447104	...	4.05	0.25	-4.931	-4.931	-2.00	365.2
19545002+0803021	4298283770977735168	-219.1	3.96	0.20	2.476	2.476	-0.67	365.3
19550782+0003520	4237149584437046784	-59.9	0.43	0.00	15.455	15.455	-0.08	71.1
19552158-4613569	6671915382881993472	155.1	3.99	0.29	-7.273	-7.273	-1.97	353.4
19580641-5217166	...	...	...	...	...	...	...	...
19583119+1403473	1807178962362590336	-189.4	3.27	0.16	4.246	4.246	-0.43	291.1
20000909-8240204	6347485957207236480	214.8	1.06	0.01	3.729	3.729	-0.49	356.3
20015470+1103254	4300772996581672704	-55.9	0.25	0.00	38.133	38.133	-0.02	73.3
20021812+0356003	4247387510856965504	...	0.46	0.00	14.330	14.330	-0.08	33.6
20032253-1142028	4190620966764303488	-52.1	2.40	0.10	7.440	7.440	-0.84	539.3
20035532-5028100	6667107184173771648	-316.7	4.89	0.53	-8.823	-8.823	-2.55	625.6
20042821-0634042	4219932228775714816	-18.3	0.11	0.00	14.327	14.327	-0.01	31.8
20052878-5431260	6473118900280458240	-94.1	3.59	0.26	-5.549	-5.549	-1.90	112.2
20065053-0824044	4192486700559707136	160.3	3.13	0.13	-13.408	-13.408	-1.07	382.8
20065112-0135379	4235780417581602304	-327.9	2.42	0.10	4.084	4.084	-0.70	457.8
20071356+0151191	4243611826586899200	...	0.34	0.01	21.897	21.897	-0.07	100.7
20082836+1011584	4299755432926365184	-76.8	3.62	0.41	-6.105	-6.105	-0.73	147.6
20083729-1136333	6880822690942721024	-17.5	0.08	0.00	0.887	0.887	-0.01	27.0
20111053-0042015	4236237642618470272	4.1	5.49	0.48	-6.228	-6.228	-1.67	282.6
20115949+0328555	4244395262980430592	53.0	0.44	0.00	1.006	1.006	-0.10	53.7
20120663-1720171	6873767610163223552	...	0.12	0.00	99.213	99.213	-0.02	54.5
20121138-5616178	6471798631629401088	-108.6	2.23	0.08	8.519	8.519	-1.20	338.5
20121853-1451042	6877707847518537088	-73.0	3.79	0.19	-5.285	-5.285	-1.54	167.9
20124384+0008034	4236447546259730816	-25.1	0.15	0.00	-5.759	-5.759	-0.02	26.6
20125289+0124185	4242787188566429184	-80.6	3.67	0.19	-10.891	-10.891	-1.07	346.4
20125447-6143094	6442969093151242880	-54.3	0.12	0.00	99.920	99.920	-0.04	148.6
20145497-0643013	4217089677680862080	-209.0	4.83	0.32	0.049	0.049	-1.75	325.0
20152495-2220596	6852768686118280576	28.6	0.15	0.00	37.738	37.738	-0.05	72.7
20153131-5719468	6468635748993114112	118.9	4.03	0.33	2.363	2.363	-2.22	383.7
20160180-0523231	4217535808820767104	-279.5	1.63	0.04	1.227	1.227	-0.57	302.9
20160744-0552554	4217300027997089280	21.9	0.96	0.43	1.519	1.519	-0.33	46.2

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
20165001-1040388	6881177219022208512	-36.4	0.09	0.00	29.287	29.287	-0.01	59.4
20165024+1403416	1803616579035764992	-10.1	5.12	0.31	6.241	6.241	-1.02	181.0
20174990-4403599	6673167103853359232	110.6	0.22	0.00	2.917	2.917	-0.10	110.8
20180356-1301215	6879502009977573504	-198.8	1.83	0.05	-13.991	-13.991	-0.75	279.2
20185485-1428523	6876208079299850752	-165.1	3.33	0.17	8.554	8.554	-1.42	258.2
20192202-6130149	6430979984003489024	-16.2	5.17	0.50	-15.471	-15.471	-2.87	358.6
20194097-2922268	6797560699757276544	-41.2	0.54	0.01	19.131	19.131	-0.25	69.8
20200915-4813436	6668894268525757696	5.1	0.12	0.00	40.938	40.938	-0.04	19.9
20203472-2757112	6846116468972086016	18.8	0.54	0.00	2.415	2.415	-0.25	39.7
20204659-1002234	6905253392633848960	-216.1	6.34	0.57	-4.527	-4.527	-2.59	268.0
20205529-1340439	6876402624138104576	14.4	0.10	0.00	-77.591	-77.591	-0.02	101.5
20210974-6637116	6425821762641148800	80.5	3.92	0.16	8.616	8.616	-2.14	337.5
20214042-5350224	6472730429078350976	-10.7	0.50	0.15	26.342	26.342	-0.26	136.0
20214109-5550310	6469232749446813824	17.7	1.10	0.02	-19.879	-19.879	-0.60	191.9
20214764-1610513	...	...	...	...	...	...	...	...
20214838-2917466	6797535960745546624	...	0.47	0.06	3.706	3.706	-0.22	29.7
20231318-0728503	4216093593161355776	-131.3	2.60	0.13	-5.448	-5.448	-1.02	170.0
20231543-2104080	6859284155805054848	137.8	4.95	0.36	-9.354	-9.354	-2.39	282.5
20232260-0807452	6906102627927525760	-16.5	5.28	0.65	-7.422	-7.422	-2.13	332.8
20233743-1659533	6873254241311424896	-162.4	2.25	0.12	-11.531	-11.531	-1.02	316.9
20235225-1628512	6873331791241472768	-286.1	5.06	0.40	-2.571	-2.571	-2.32	315.2
20241045-6720324	6425543307024121088	200.7	5.39	0.27	0.976	0.976	-2.97	330.9
20242459-2529550	6848220487550880640	43.0	8.41	0.83	2.786	2.786	-4.29	286.7
20244286-2618599	6847828584672684416	12.9	0.34	0.00	-3.064	-3.064	-0.15	69.2
20244510-1605268	6874849529603646080	-142.0	5.70	0.50	0.212	0.212	-2.62	172.1
20255659-4915524	6668166013871841536	-3.1	0.12	0.00	43.894	43.894	-0.05	20.8
20263268-1025283	6904467555355890304	-41.5	0.19	0.00	18.179	18.179	-0.06	44.6
20271323-1658595	6862731949391812992	-19.3	0.18	0.00	4.639	4.639	-0.06	27.0
20273786-1444546	6875659938390010240	-57.1	0.21	0.01	-32.700	-32.700	-0.07	69.5
20273791-2627414	6847786940670450944	-53.3	0.22	0.00	-4.378	-4.378	-0.09	59.0
20274485-4223567	6679325159242871808	-12.0	0.16	0.00	-14.293	-14.293	-0.07	39.1
20275301-5141137	6475211236547281152	-69.1	5.18	0.43	2.382	2.382	-3.00	187.1
20275840-1556595	6874956658968640512	-36.6	0.10	0.00	15.071	15.071	-0.02	42.0
20281482-5351378	6473996241838555392	-13.8	2.18	0.06	-12.257	-12.257	-1.25	201.0
20284544-2638089	6847769863878031616	-84.9	0.19	0.00	51.052	51.052	-0.08	135.1
20290062-2157354	6855992046192920960	33.8	0.57	0.00	3.303	3.303	-0.27	35.0
20290527-5059527	6475303698603197824	-37.1	0.82	0.01	3.918	3.918	-0.46	39.1
20292008-4513468	6675597235006194432	-30.7	0.95	0.02	14.002	14.002	-0.53	56.9
20293622-3652218	6694857444613732352	28.2	0.50	0.00	-4.172	-4.172	-0.26	55.5
20301912-2844399	6797804306004518400	-1.7	0.25	0.00	13.967	13.967	-0.11	16.8
20313318-3054125	6796525780141266304	35.9	0.26	0.00	-19.004	-19.004	-0.12	46.6
20314518-5623277	6469004910021548672	50.1	2.52	0.09	1.081	1.081	-1.46	382.6

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
20331212-4200270	6679615950005226240	-309.0	2.01	0.09	-2.346	-2.346	-1.16	410.6
20331607-5047126	6475629909958997376	-13.0	0.28	0.01	16.120	16.120	-0.14	20.1
20351407-4625056	6674758921813508736	-63.0	1.11	0.02	5.914	5.914	-0.64	81.1
20354257-0714557	6907591641550947072	-232.4	2.65	0.10	-2.140	-2.140	-1.15	381.9
20373334-3645452	6683227639544432512	-9.6	0.16	0.00	20.808	20.808	-0.07	18.8
20375779-2518252	6800352497219577728	...	0.70	0.05	6.036	6.036	-0.37	33.3
20381947-2750475	6798666258699212672	57.5	0.51	0.00	-23.743	-23.743	-0.26	85.2
20385050-2657542	6799133551141107712	50.2	0.78	0.01	-6.996	-6.996	-0.42	72.6
20404939-5843259	6455696764877344896	156.7	7.04	0.61	-3.237	-3.237	-4.21	268.0
20410627-3251350	6792327226270824832	92.8	0.27	0.00	-40.228	-40.228	-0.13	138.1
20414841-5237274	6471501763492187520	-18.9	6.50	0.53	-9.421	-9.421	-3.96	249.0
20430947-3600325	6779175490951538560	2.0	3.05	0.15	-8.653	-8.653	-1.82	129.2
20440973-2940093	6795239665071836160	-45.4	4.68	0.33	-4.318	-4.318	-2.74	185.0
20442721-7405038	6369772538209241216	...	0.40	0.00	15.101	15.101	-0.20	20.1
20443065-2936534	6795263648167892992	34.2	0.12	0.00	43.907	43.907	-0.05	40.6
20445501-3732403	6778221802053181824	-56.9	0.76	0.01	11.436	11.436	-0.44	66.0
20451053-2934207	6795077693263710080	-140.7	1.29	0.03	26.855	26.855	-0.74	357.6
20460102+1506250	1762690140608564480	...	5.61	0.89	-2.854	-2.854	-1.62	122.1
20461039-3940468	6678691295087392640	84.3	3.48	0.17	9.996	9.996	-2.13	251.0
20461191-3833114	6681901765961577344	46.4	1.44	0.04	-28.909	-28.909	-0.87	250.0
20465470-3948150	6678675249089470464	-245.4	1.92	0.07	-1.853	-1.853	-1.17	246.1
20474129-4949312	6480909150618081536	121.1	7.27	1.16	0.329	0.329	-4.53	213.0
20480642-3520259	6779625977182979328	36.7	0.14	0.00	-37.638	-37.638	-0.06	46.3
20485047-7341446	6370159673678547712	282.7	7.24	0.50	3.311	3.311	-4.03	421.9
20485505-4125356	6678289698465087232	-76.2	4.02	0.23	11.669	11.669	-2.51	296.6
20490816-2214501	6807184278357672576	-17.2	5.28	0.43	14.831	14.831	-3.02	421.2
20492765-5124440	6477616903566840064	25.6	5.63	0.51	-3.733	-3.733	-3.52	198.4
20504877+1007551	1751382561168000256	-54.5	0.16	0.00	25.224	25.224	-0.03	67.4
20512785-4843325	6481344866460154880	64.7	0.18	0.00	10.023	10.023	-0.09	66.0
20523629-5241033	6477303675894157824	147.0	9.99	1.35	-2.983	-2.983	-6.32	244.6
20530472-3836380	6774883405575766400	-113.7	4.75	0.32	-7.754	-7.754	-3.00	340.3
20531334-4520139	6484187516335125760	28.8	0.13	0.00	-16.089	-16.089	-0.06	30.1
20531555+1147415	1757847139781935616	-321.2	5.40	0.37	0.053	0.053	-1.86	394.4
20541462-4811494	6481473440600905472	-67.0	4.73	0.40	10.002	10.002	-3.02	338.0
20545308-4710289	6481731516596154368	-41.9	4.51	0.42	5.293	5.293	-2.88	171.1
20555702-3912091	6774608463246378880	-78.4	2.21	0.13	23.838	23.838	-1.40	324.2
20565365-5609461	6457897089506392064	...	2.64	0.09	-10.744	-10.744	-1.65	138.2
20571292-4958553	6478163463924318208	22.7	4.40	0.31	-4.550	-4.550	-2.82	267.5
20574855-4154444	6677344182887180800	25.5	0.30	0.01	-32.662	-32.662	-0.17	51.8
20575772-5637258	6457695677015968384	-5.1	2.12	0.06	22.653	22.653	-1.33	321.3
20580267+1427040	1761667216837966848	-210.9	3.48	0.15	10.751	10.751	-1.15	281.7
20585673-4013142	6773745346616608000	-39.0	0.13	0.00	138.889	138.889	-0.06	75.8

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
20590249+1847021	1765354016765575680	...	0.33	0.00	-3.330	-3.330	-0.07	15.0
20592599-4724182	6483013375355411200	-11.5	0.18	0.00	-10.091	-10.091	-0.09	13.9
20595162-4937337	6478288460356702464	2.0	0.59	0.00	10.762	10.762	-0.36	20.7
21011036-4537322	6483420263376508032	-79.8	3.05	0.13	10.480	10.480	-1.98	177.3
21011096-4148546	6581257453716372352	6.7	0.58	0.02	4.562	4.562	-0.36	74.7
21014399-4913588	6478323339786839168	8.7	0.10	0.00	-28.197	-28.197	-0.04	12.6
21032352-4211400	6581180590980731520	42.8	0.11	0.00	-34.963	-34.963	-0.05	44.8
21032466-7254213	6370267975574142592	...	6.62	0.49	-5.177	-5.177	-3.80	249.8
21032961-7321324	6370238112664426624	42.6	4.70	0.23	6.181	6.181	-2.68	183.4
21042794-4710017	6480078194704569088	-76.9	4.91	0.33	9.149	9.149	-3.25	276.2
21051884-6831537	6376679571472808064	50.9	4.01	0.24	0.905	0.905	-2.40	171.9
21054066-4520565	6483621714522704128	-2.5	2.39	0.10	20.425	20.425	-1.58	323.3
21080234+1835409	1788340995265967488	...	0.15	0.00	7.991	7.991	-0.02	43.9
21091442-4721520	6480023214826621696	-29.5	0.89	0.01	0.137	0.137	-0.58	76.3
21092218-4250491	6580163542725955840	...	3.89	0.30	-8.990	-8.990	-2.62	161.0
21094841-5600060	6463024322681098368	...	5.92	0.45	0.252	0.252	-3.89	268.4
21095801+1725439	1788003032879354752	-241.4	1.18	0.02	-17.541	-17.541	-0.38	426.4
21102133+3016061	1852687405024593024	-53.9	0.10	0.00	-89.343	-89.343	0.01	109.8
21105535+2140380	1790165875330692352	-109.4	0.18	0.00	-137.493	-137.493	-0.03	167.1
21110533-4239222	6580263048527430400	-159.7	4.78	0.34	2.635	2.635	-3.24	384.1
21111175-4126536	6581456534040000128	74.5	1.97	0.06	6.832	6.832	-1.32	361.6
21114008-5138220	6476892256683323008	...	4.24	0.31	-8.517	-8.517	-2.84	637.4
21115127-5257071	6464688708407259008	107.2	0.83	0.01	-48.699	-48.699	-0.53	283.1
21120163+2520001	1841468911788506112	-54.8	0.15	0.00	-18.020	-18.020	-0.02	73.2
21125173+2110327	1790077841384173312	-168.1	3.08	0.19	2.990	2.990	-0.95	251.1
21134390-6802355	6399985335331112064	-9.2	3.36	0.12	8.657	8.657	-2.05	173.1
21145602+2112242	1791382721170477824	-107.0	2.56	0.14	7.902	7.902	-0.80	203.6
21150824+2631245	1847680160351457024	29.8	0.85	0.01	1.286	1.286	-0.20	33.4
21151790-4333404	6579952677010742272	162.2	4.26	0.26	1.825	1.825	-2.93	168.5
21154971-6848520	6375872461218303488	57.7	4.46	0.23	-6.409	-6.409	-2.72	80.2
21171659-4115323	6580773015762728704	-37.9	0.41	0.00	-11.043	-11.043	-0.26	43.3
21190273+3318462	1854629726683249024	-154.8	2.53	0.08	0.581	0.581	-0.47	218.1
21192932-7715553	6356252535213950592	-246.6	0.85	0.01	21.539	21.539	-0.45	343.4
21203573-5321426	6463751271665659264	175.2	2.02	0.05	-20.055	-20.055	-1.36	272.9
21211669+2032551	1790500809763786624	-32.7	0.15	0.00	73.700	73.700	-0.03	59.6
21214670+1916532	1785668323017152384	...	0.86	0.01	-7.023	-7.023	-0.29	34.7
21232828-5328287	6463713682111820160	32.7	1.62	0.03	22.828	22.828	-1.10	366.4
21240060-5241520	6465286018099447680	-36.6	1.55	0.03	5.613	5.613	-1.05	176.9
21243758-6400120	6403279953204895360	...	0.23	0.00	-24.468	-24.468	-0.12	37.8
21254398-6753045	6399850542078013568	-34.0	0.07	0.00	182.652	182.652	-0.02	47.3
21262879+1749436	1784515446419862656	-10.8	0.60	0.00	-3.355	-3.355	-0.21	22.5
21263180+2031469	1790358392944627712	-178.9	4.66	0.60	8.481	8.481	-1.66	283.2

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
21281884-6406460	6403090356168392192	-55.1	5.78	0.35	5.585	5.585	-3.76	87.2
21292831-5558258	6460174865281654144	-0.5	0.17	0.00	14.964	14.964	-0.10	25.9
21313828-6858199	6396651616076109184	...	6.88	0.58	0.379	0.379	-4.32	219.7
21322880-6607539	6400620298999247488	110.6	0.13	0.00	-62.158	-62.158	-0.06	142.0
21323054+1600097	1772048878641647488	-534.3	1.04	0.02	5.958	5.958	-0.42	535.4
21340283-6224209	6403844758583266688	...	2.91	0.11	-2.144	-2.144	-1.93	364.5
21343861+1538156	1771832962045862656	-8.6	0.18	0.01	-31.693	-31.693	-0.05	68.4
21351702-5533118	6460110479427930624	62.7	2.47	0.08	22.093	22.093	-1.72	356.9
21373999-2446495	6814831136913490048	13.1	0.13	0.00	-1.513	-1.513	-0.07	13.5
21391225+3849406	1953863502940549504	-48.4	0.30	0.02	-60.682	-60.682	-0.03	117.3
21393394-5845548	6458363870847393792	280.4	5.78	0.37	-0.460	-0.460	-4.01	282.4
21414000-2854239	6809748884932883712	-113.6	4.15	0.32	-2.683	-2.683	-3.08	223.2
21430664-6338509	6402785069892389760	-0.6	0.15	0.00	11.138	11.138	-0.07	4.2
21440820+3813139	1952857308060989312	-221.1	1.91	0.04	-10.150	-10.150	-0.35	273.2
21445442-6319381	6402818531980755584	-16.0	0.51	0.00	11.290	11.290	-0.32	97.1
21453847+2351116	1794596868534480128	-62.8	0.91	0.01	31.373	31.373	-0.32	182.3
21461136-5420472	6461349457233919872	-49.9	0.08	0.00	140.459	140.459	-0.03	91.2
21480606+4643071	1974610531448247936	-6.6	0.79	0.01	2.838	2.838	-0.05	9.8
21482057+2155222	1793330952694172416	...	0.60	0.00	18.310	18.310	-0.22	59.2
21494865+1048431	1765600930139450752	-271.8	1.59	0.06	-58.024	-58.024	-0.81	515.5
21502426-6105576	6409890217109702784	...	11.11	1.52	4.288	4.288	-7.77	250.5
21510307+3619543	1949409175177462272	-373.6	4.28	0.32	2.341	2.341	-0.98	452.3
21513710-7925459	6355014691279286400	1.2	1.14	0.01	8.019	8.019	-0.62	10.0
21515415+0537172	2697022209558112768	-87.3	2.65	0.10	-6.058	-6.058	-1.52	270.4
21525027-6604240	6398934786330198784	...	0.55	0.00	13.740	13.740	-0.34	47.2
21555532+3501402	1948312515407711104	-313.6	2.54	0.08	-3.190	-3.190	-0.64	368.6
21573551-0308043	2670534149811033088	160.1	1.04	0.02	34.775	34.775	-0.67	311.8
21573761+3544196	1948748437403259776	-61.9	0.19	0.00	93.788	93.788	-0.02	110.2
21584417+0052490	2681491607815613952	-37.6	1.55	0.04	-16.997	-16.997	-0.97	279.3
21584491+0129524	2681597607608087040	-249.4	4.04	0.31	5.896	5.896	-2.55	328.6
22013669-6918312	6396019706127003520	...	5.70	0.36	-2.812	-2.812	-3.73	241.5
22032935-5635128	6412646138709077888	110.1	4.67	0.22	4.486	4.486	-3.46	170.3
22040352+0016519	2680470706974136192	-134.3	5.88	0.62	-3.459	-3.459	-3.86	388.8
22043661-6044348	6409307304149253248	90.3	1.89	0.06	11.331	11.331	-1.34	283.8
22044480+4148205	1959828147361822848	4.0	0.28	0.00	-3.684	-3.684	-0.03	19.4
22050237+3107332	1898564081014685184	-31.7	0.30	0.01	-19.982	-19.982	-0.08	56.7
22082896-6607320	6399063394830844544	...	3.89	0.18	-0.161	-0.161	-2.66	145.3
22104990-3947023	6573266443723504768	-69.4	3.10	0.13	-5.883	-5.883	-2.50	253.4
22112456-3753100	6574080735161542784	-3.9	2.42	0.10	29.374	29.374	-1.95	327.8
22115350-1209181	2612971211403496832	-119.9	3.30	0.25	4.789	4.789	-2.50	255.7
22120815-4215210	6569918602615687808	-15.0	5.29	0.41	-4.489	-4.489	-4.27	307.3
22125424-0235414	2675834650555144576	-127.9	0.69	0.01	63.320	63.320	-0.46	300.8

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
22125459-0408594	2627229884351014144	-270.2	2.43	0.11	-3.453	-3.453	-1.71	275.3
22140658-0016065	2678634350759886336	...	0.09	0.00	15.430	15.430	-0.04	10.9
22165631-1154207	2612857755547023232	-9.7	0.14	0.00	20.176	20.176	-0.08	24.2
22211976-4111021	6569481855982624640	-163.4	3.11	0.20	6.233	6.233	-2.56	411.5
22213981+3725402	1906965002686762496	...	0.79	0.01	-2.596	-2.596	-0.20	12.5
22221878-7406283	6357952517629300352	174.0	4.51	0.17	-5.336	-5.336	-2.83	313.7
22224538+3555471	1905936405260048384	-242.2	3.68	0.16	-4.230	-4.230	-1.10	287.1
22224859+2804264	1881899328730042368	-150.1	1.70	0.05	17.107	17.107	-0.67	198.0
22225487+2954084	1894651090929156096	17.0	0.26	0.01	58.319	58.319	-0.08	89.8
22234372-8627533	6342106630928779392	3.3	0.12	0.00	5.639	5.639	-0.04	33.0
22235096-6512086	6404249993041212928	8.7	0.17	0.00	166.503	166.503	-0.10	86.1
22241668+2548128	1879125024671706624	...	1.19	0.02	-5.619	-5.619	-0.50	57.2
22241984+2430382	1878702846566493440	-18.8	0.47	0.00	27.285	27.285	-0.19	60.6
22244368+3236401	1901779602770732032	...	0.28	0.00	-27.414	-27.414	-0.08	42.2
22251594+2911332	1894379923873649536	-89.6	2.09	0.10	-7.684	-7.684	-0.81	272.8
22280812+3546524	1905786459361887488	-39.4	0.11	0.00	-6.598	-6.598	-0.01	41.7
22284549-4124119	6593293356532115712	-25.2	0.20	0.00	69.372	69.372	-0.14	55.1
22290341+3954145	1909092729485051776	-23.6	1.17	0.03	-11.627	-11.627	-0.28	75.1
22293323+4332048	1981952760850101376	-278.4	1.64	0.04	4.300	4.300	-0.32	292.6
22294083-3305402	6600574876582217344	196.8	4.63	0.37	13.228	13.228	-3.94	313.0
22303946-1809055	2594309161890648320	-6.0	0.07	0.00	94.353	94.353	-0.04	45.3
22310829+3023018	1900531824573844608	2.7	0.25	0.00	9.700	9.700	-0.08	15.3
22311433-6656572	6386075551166390144	58.3	2.74	0.13	8.504	8.504	-1.91	255.9
22315231+2320202	1875411630307299456	-15.6	0.99	0.05	-7.264	-7.264	-0.46	50.6
22342447+2739353	1881261994239589888	...	0.77	0.01	-1.907	-1.907	-0.31	27.9
22345447-6605172	6392134513070641408	-54.9	2.55	0.10	9.874	9.874	-1.80	171.7
22354139-4305549	6520905878946665344	125.9	3.96	0.26	-2.309	-2.309	-3.35	383.6
22355721-2434108	6623904314300239488	-21.2	0.11	0.00	51.752	51.752	-0.07	40.2
22360602+3930413	1908318669000212480	-6.4	0.51	0.02	-2.168	-2.168	-0.12	16.2
22364074-7026524	6384994623861077376	9.5	0.38	0.00	57.225	57.225	-0.24	67.3
22373316-4341181	6520826714109323392	-9.6	1.45	0.03	0.987	0.987	-1.21	299.9
22401067-3738259	6595625729931613568	-88.7	3.23	0.20	2.726	2.726	-2.78	109.2
22412632-3627304	6596002145160945664	-68.9	3.88	0.25	8.280	8.280	-3.37	348.1
22413573+2931038	1887539965117822464	-4.2	0.12	0.01	70.505	70.505	-0.03	37.9
22432022-7547340	6357547759911189120	20.4	0.27	0.00	17.523	17.523	-0.14	22.2
22451263+3532066	1903656636619168768	...	4.73	0.24	-3.712	-3.712	-1.64	100.3
22453503+1301210	2731609959149919360	-506.8	4.58	0.31	10.187	10.187	-2.89	564.2
22454796+2826260	1887186850086385152	-11.3	0.19	0.00	6.210	6.210	-0.06	19.9
22471965-7201440	6382433144021702656	5.6	0.45	0.00	36.835	36.835	-0.27	35.6
22472643+3532411	1903562838830927744	10.7	0.23	0.00	-22.706	-22.706	-0.06	35.1
22473447-5511534	6505905757201226368	2.5	0.40	0.04	13.755	13.755	-0.30	19.0
22474545+2517113	1876790894628571264	-1.2	0.19	0.00	13.293	13.293	-0.07	11.0

(continued)

Table 4 (continued)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s ⁻¹)	d_{helio} (kpc)	σ_d (kpc)	PM _{R.A.} (mas yr ⁻¹)	PM _{Decl.} (mas yr ⁻¹)	Z_{Gal} (kpc)	V_{TAV} (km s ⁻¹)
22481449-5703067	6504026829267642240	-13.6	1.16	0.02	26.170	26.170	-0.90	221.1
22490353-5536242	6505879059684460032	-29.8	0.10	0.00	185.005	185.005	-0.06	86.5
22492811-5717202	6503988105842414464	20.5	0.32	0.00	8.290	8.290	-0.23	53.8
22511876-3814381	6547694891340666752	196.7	1.56	0.04	12.905	12.905	-1.36	344.4
22512739-5049405	6513929237145370880	-30.1	1.99	0.06	47.403	47.403	-1.65	393.8
22531950-6647163	6391157150312476032	166.8	5.63	0.41	2.332	2.332	-4.05	228.5
22534476-5456485	6506123701021637888	-58.9	1.30	0.02	26.270	26.270	-1.04	122.7
22534538+7919586	2285728337337892480	-44.0	0.16	0.00	-20.366	-20.366	0.07	45.1
22544750-3509160	6554282379035795840	7.3	0.11	0.00	124.383	124.383	-0.08	117.4
22575548-5622538	6493611254400172416	188.5	6.07	0.43	5.754	5.754	-4.91	416.8
22591090-4829425	6515325616912384256	16.9	3.92	0.21	7.412	7.412	-3.35	140.5
22594336-3819324	6546814427341069568	13.0	0.38	0.05	60.399	60.399	-0.32	97.7
23003637+2820257	1885059776122105728	-52.0	0.28	0.01	-59.363	-59.363	-0.11	134.2
23022817-4059099	6543252452048113152	53.9	2.86	0.13	17.250	17.250	-2.53	213.1
23035329-4139482	6543169129682052608	...	5.94	0.57	-6.561	-6.561	-5.30	399.3
23043022+0155166	2652540916900514304	-55.6	4.04	0.24	3.042	3.042	-3.12	122.1
23044868-4311029	6541868716664047744	54.5	0.12	0.00	-87.102	-87.102	-0.08	65.6
23055841-8636001	6341894558326196480	-2.9	0.12	0.00	27.165	27.165	-0.03	5.6
23064708+2802027	1884897937457948672	-206.0	0.06	0.00	25.925	25.925	-0.01	210.8
23083044-7441319	6378503729982312576	135.1	4.19	0.22	19.992	19.992	-2.70	196.7
23085453-5226130	6500818969734685440	0.0	0.11	0.00	50.188	50.188	-0.07	17.8
23093209-7132507	6381003327932886144	211.1	5.24	0.29	-0.496	-0.496	-3.58	223.8
23100319-7702165	6354182945092770176	-53.9	3.44	0.17	17.144	17.144	-2.12	182.0
23123243-0240516	2638139066923296128	11.3	0.14	0.00	17.529	17.529	-0.09	16.7
23124700+2701045	2845306436489791232	0.5	0.11	0.00	168.657	168.657	-0.03	81.8
23130418-4332060	6541663554666433920	54.5	3.93	0.28	10.010	10.010	-3.52	390.0
23131220+5425552	1996424051866554112	-19.4	0.61	0.01	8.458	8.458	-0.04	25.6
23133742-5336585	6500438435631474560	-10.3	0.60	0.01	10.804	10.804	-0.48	24.9
23164530-4047253	6548299386513340288	13.7	0.10	0.00	-2.706	-2.706	-0.06	119.7
23235454-4730233	6526777614634204672	-39.8	0.96	0.01	31.476	31.476	-0.83	127.9
23273196+5438201	1995911404570328192	-1.5	0.27	0.00	10.051	10.051	0.00	13.4
23293844+3337097	2872688983306031616	-184.0	2.04	0.11	21.475	21.475	-0.88	261.7
23321307+1950398	2824757388800259840	-83.7	0.07	0.00	134.382	134.382	-0.02	107.5
23341995+4703450	1938499679067388288	19.5	0.67	0.02	13.922	13.922	-0.13	42.5
23362842-5537423	6496310731541441152	29.8	2.24	0.08	-4.864	-4.864	-1.88	256.8
23371202+2100145	2826450808506230016	...	0.09	0.00	209.668	209.668	-0.03	88.9
23400099+4959092	1943744250753474944	-244.4	2.01	0.04	26.689	26.689	-0.37	298.8
23421250-6346584	6485737793369175680	...	0.19	0.02	0.139	0.139	-0.12	17.8
23430472-8200221	6350719930141819520	5.3	0.12	0.00	-122.785	-122.785	-0.04	12.2
23433753+5008599	1943761190104941824	-85.2	1.77	0.04	-2.690	-2.690	-0.32	87.1
23450930+5538498	1994885560221975552	...	0.63	0.00	-6.569	-6.569	-0.04	19.5
23465497+1201211	2763718305727188480	...	0.19	0.00	77.406	77.406	-0.12	70.3

(continued)

Table 4 (*continued*)

Star Name (2MASS)	Star Name (Gaia EDR3)	V_{los} (km s $^{-1}$)	d_{helio} (kpc)	σ_d (kpc)	PM $_{\text{R.A.}}$ (mas yr $^{-1}$)	PM $_{\text{Decl.}}$ (mas yr $^{-1}$)	Z_{Gal} (kpc)	V_{TAV} (km s $^{-1}$)
23472384+4835469	1940559103007605120	-69.5	2.50	0.09	10.039	10.039	-0.53	109.4
23505349+1142348	2766637307235175296	-182.0	2.83	0.12	1.251	1.251	-2.09	253.2
23550005+1255039	2766874664308017408	25.7	0.14	0.01	14.749	14.749	-0.08	28.0
23555398+5702462	1998062118035485056	-12.5	0.19	0.02	7.608	7.608	0.01	13.1
23560245+1109200	2765621221052354816	-14.3	0.17	0.00	46.314	46.314	-0.11	72.5
23562635+0651168	2746230337064331776	-0.1	0.19	0.00	12.817	12.817	-0.13	12.3
23563722+4615436	1927134439687586560	-44.7	0.06	0.00	-74.463	-74.463	0.01	60.8
23564530-4429484	6532542491534291968	6.9	0.19	0.01	-48.397	-48.397	-0.16	39.1