

Table 1. Properties of Milky Way dwarf galaxies

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|--|------------|-------------|------|--|-----------|----------------|
| LMC | Nubecula Major Large Magellanic Cloud Large Milky Cloud | 05:23:34.6 | -69:45:22.0 | MW | | | Dwarf Galaxy |
| SMC | Nubecula Minor NGC 292 Small Magellanic Cloud Small Milky Cloud | 00:52:37.9 | -72:48:01.1 | LMC | | | Dwarf Galaxy |
| Fornax | ESO 356-G04 PGC 10074 PGC 10093 | 02:39:50.0 | -34:29:58.9 | MW | Shapley (1938a) | | Dwarf Galaxy |
| Sculptor | ESO 351-G30 | 01:00:04.4 | -33:43:07.0 | MW | Shapley (1938b) | | Dwarf Galaxy |
| Leo I | UGC 5470 DDO 74 Regulus Dwarf | 10:08:27.5 | +12:18:21.2 | MW | Harrington & Wilson (1950) | | Dwarf Galaxy |
| Leo II | Leo B UGC 6253 DDO 93 | 11:13:27.0 | +22:09:10.4 | MW | Harrington & Wilson (1950) | | Dwarf Galaxy |
| Draco | UGC 10822 DDO 208 | 17:20:16.4 | +57:55:06.6 | MW | Wilson (1955) | | Dwarf Galaxy |
| Ursa Minor | UGC 9749 DDO 199 PGC 54074 | 15:08:58.1 | +67:13:19.6 | MW | Wilson (1955) | | Dwarf Galaxy |
| Carina | ESO 206-G220 | 06:41:37.6 | -50:57:33.5 | MW | Cannon et al. (1977) | | Dwarf Galaxy |
| Sextans | | 10:13:03.1 | -01:36:47.9 | MW | Irwin et al. (1990) | | Dwarf Galaxy |
| Sagittarius | | 18:55:19.5 | -30:32:43.4 | MW | Ibata et al. (1994) | | Dwarf Galaxy |
| Willman 1 | SDSS J1049+5103 | 10:49:22.5 | +51:03:00.4 | MW | Willman et al. (2005a) | | Dwarf Galaxy |
| Ursa Major I | | 10:35:04.9 | +51:56:52.4 | MW | Willman et al. (2005b) | | Dwarf Galaxy |

Table 1 continued on next page

Table 1 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------------|------------------|------------|-------------|------|---|-----------|----------------|
| Boötes I | | 14:00:04.8 | +14:30:48.6 | MW | Belokurov et al. (2006) | | Dwarf Galaxy |
| Canes Venatici I | | 13:28:02.2 | +33:33:07.6 | MW | Zucker et al. (2006a) | | Dwarf Galaxy |
| Canes Venatici II | SDSS J1257+3419 | 12:57:10.2 | +34:19:21.4 | MW | Belokurov et al. (2007) Sakamoto & Hasegawa (2006) | | Dwarf Galaxy |
| Coma Berenices | | 12:26:58.9 | +23:54:24.8 | MW | Belokurov et al. (2007) | | Dwarf Galaxy |
| Hercules | | 16:31:05.3 | +12:47:06.7 | MW | Belokurov et al. (2007) | | Dwarf Galaxy |
| Leo IV | | 11:32:57.7 | -00:32:43.1 | MW | Belokurov et al. (2007) | | Dwarf Galaxy |
| Segue 1 | | 10:07:00.1 | +16:04:32.2 | MW | Belokurov et al. (2007) | | Dwarf Galaxy |
| Ursa Major II | | 08:51:29.4 | +63:08:00.6 | MW | Zucker et al. (2006b) Grillmair (2006) | | Dwarf Galaxy |
| Boötes II | | 13:58:03.4 | +12:51:19.1 | MW | Walsh et al. (2007) | | Dwarf Galaxy |
| Boötes III | | 13:57:12.0 | +26:48:00.0 | MW | Grillmair (2009) | | Dwarf Galaxy |
| Leo V | | 11:31:08.6 | +02:13:09.8 | MW | Belokurov et al. (2008) | | Dwarf Galaxy |
| Segue 2 | | 02:19:17.4 | +20:09:44.6 | MW | Belokurov et al. (2009) | | Dwarf Galaxy |
| Pisces II | | 22:58:32.7 | +05:57:20.0 | MW | Belokurov et al. (2010) | | Dwarf Galaxy |
| Cetus II | DES J0117-1725 | 01:17:52.8 | -17:25:12.0 | MW | Drlica-Wagner et al. (2015) | | |
| Columba I | DES J0531-2801 | 05:31:25.7 | -28:02:33.1 | MW | Drlica-Wagner et al. (2015) | | Dwarf Galaxy |
| Draco II | Laevens 4 | 15:52:47.6 | +64:33:55.0 | MW | Laevens et al. (2015a) | | |
| Eridanus II | DES J0344.3-4331 | 03:44:22.2 | -43:31:58.4 | MW | Bechtol et al. (2015) Koposov et al. (2015a) | | Dwarf Galaxy |
| Grus I | | 22:56:39.8 | -50:10:04.8 | MW | Koposov et al. (2015a) | | Dwarf Galaxy |
| Grus II | DES J2204-4626 | 22:04:06.0 | -46:26:31.2 | MW | Drlica-Wagner et al. (2015) | | Dwarf Galaxy |
| Horologium I | DES J0255.4-5406 | 02:55:30.1 | -54:07:02.6 | LMC | Bechtol et al. (2015) Koposov et al. (2015a) | | Dwarf Galaxy |
| Horologium II | | 03:16:31.4 | -50:00:32.4 | MW | Kim & Jerjen (2015a) | | |
| Hydra II | | 12:21:42.9 | -31:58:22.1 | MW | Martin et al. (2015) | | Dwarf Galaxy |
| Pegasus III | | 22:24:25.8 | +05:24:54.2 | MW | Kim et al. (2015a) | | Dwarf Galaxy |
| Phoenix II | DES J2339.9-5424 | 23:39:58.1 | -54:24:06.8 | LMC | Bechtol et al. (2015) Koposov et al. (2015a) | | Dwarf Galaxy |
| Pictor I | DES J0443.8-5017 | 04:43:47.4 | -50:16:59.0 | MW | Bechtol et al. (2015) | | |

Table 1 *continued on next page*

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|----------------|------------------|------------|-------------|------|---|-----------|----------------|
| | Pictoris I | | | | Koposov et al. (2015a) | | |
| Reticulum II | DES J0335.6-5403 | 03:35:40.9 | -54:03:04.7 | LMC | Bechtol et al. (2015) Koposov et al. (2015a) | | Dwarf Galaxy |
| Reticulum III | DES J0345-6026 | 03:45:26.4 | -60:27:00.0 | MW | Drlica-Wagner et al. (2015) | | Dwarf Galaxy |
| Triangulum II | Laevens 2 | 02:13:15.7 | +36:10:08.8 | MW | Laevens et al. (2015b) | | Dwarf Galaxy |
| Tucana II | DES J2251.2-5836 | 22:51:55.1 | -58:34:08.0 | MW | Bechtol et al. (2015) Koposov et al. (2015a) | | Dwarf Galaxy |
| Tucana III | DES J2356-5935 | 23:56:25.8 | -59:35:00.0 | MW | Drlica-Wagner et al. (2015) | | |
| Tucana IV | DES J0002-6051 | 00:02:52.1 | -60:49:48.0 | MW | Drlica-Wagner et al. (2015) | | Dwarf Galaxy |
| Tucana V | DES J2337-6316 | 23:37:23.3 | -63:15:57.6 | MW | Drlica-Wagner et al. (2015) | | Dwarf Galaxy |
| Aquarius II | | 22:33:55.5 | -09:19:38.6 | MW | Torrealba et al. (2016b) | | Dwarf Galaxy |
| Crater II | | 11:49:14.4 | -18:24:46.8 | MW | Torrealba et al. (2016a) | | Dwarf Galaxy |
| Pictor II | | 06:44:43.2 | -59:53:49.2 | MW | Drlica-Wagner et al. (2016) | | |
| Virgo I | HSC J1200-0040 | 12:00:09.1 | -00:40:51.6 | MW | Homma et al. (2016) | | |
| Carina II | | 07:36:25.6 | -57:59:56.8 | LMC | Torrealba et al. (2018) | | Dwarf Galaxy |
| Carina III | | 07:38:31.2 | -57:53:58.9 | LMC | Torrealba et al. (2018) | | Dwarf Galaxy |
| Cetus III | HSC J0209-0416 | 02:05:19.4 | -04:16:12.0 | MW | Homma et al. (2018) | Cand. | |
| Hydrus I | | 02:29:33.4 | -79:18:32.0 | LMC | Koposov et al. (2018) | | Dwarf Galaxy |
| Antlia II | | 09:35:13.9 | -36:41:56.8 | MW | Torrealba et al. (2019b) | | Dwarf Galaxy |
| Boötes IV | HSC J1534+4343 | 15:34:45.4 | +43:43:33.6 | MW | Homma et al. (2019) | | |
| Centaurus I | | 12:38:20.4 | -40:54:07.2 | MW | Mau et al. (2020) | | Dwarf Galaxy |
| Eridanus IV | | 05:05:45.1 | -09:30:54.0 | MW | Cerny et al. (2021a) | | Dwarf Galaxy |
| Boötes V | DELVE J1415+3254 | 14:15:38.2 | +32:54:50.4 | MW | Smith et al. (2023) Cerny et al. (2023a) | | |
| Leo Minor I | DELVE J1057+2852 | 10:57:02.6 | +28:52:30.0 | MW | Cerny et al. (2023a) | | |
| Pegasus IV | | 21:54:09.4 | +26:37:12.0 | MW | Cerny et al. (2023b) | | Dwarf Galaxy |
| Virgo II | DELVE J1500+0554 | 15:00:14.2 | +05:54:32.4 | MW | Cerny et al. (2023a) | | |
| Sextans II | KiDS-UFD-1 | 10:25:44.9 | -00:37:51.6 | MW | Homma et al. (2023) Gatto et al. (2024) | | |
| Ursa Major III | UNIONS 1 | 11:38:49.8 | +31:04:42.0 | MW | Smith et al. (2024) | | |

Table 1 *continued on next page*

Table 1 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-----------|------------|------------|-------------|------|-------------------------------------|-----------|----------------|
| Virgo III | | 12:25:23.5 | +04:26:27.6 | MW | Homma et al. (2023) | Cand. | |

NOTE—Satellites are ordered by discovery year. Column description: **RA** and **Dec**—IRCS, J2000; **Candidate**—Satellites labeled candidate do not have deeper photometry, spectroscopic follow-up, or a *Gaia* proper motion signal and may be false-positives; **Classification**—whether the system is a confirmed dwarf galaxy based on the [Willman & Strader \(2012\)](#) definition. This includes a resolved velocity dispersion, metallicity dispersion, or size clearly larger than a star cluster.

Table 2. Properties of Milky Way dwarf galaxies

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-------------------|----------|----------|-------------------------|------------------------|------------------------|----------------------------|-------------------------|-------------------------|------|----------------------|---------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Antlia II | 143.8079 | -36.6991 | 104.60 ± 8.60 | 0.60 ± 0.04 | 156.0 ± 2.4 | $2381.2^{+257.4}_{-241.2}$ | 20.47 ± 0.09 | $124.2^{+5.3}_{-5.0}$ | 10.7 | -9.7 ± 0.1 | a,b |
| Aquarius II | 338.4813 | -9.3274 | 5.10 ± 0.80 | 0.39 ± 0.09 | 121.0 ± 9.0 | $123.6^{+23.0}_{-21.0}$ | 20.16 ± 0.07 | $107.6^{+3.5}_{-3.4}$ | 15.8 | -4.4 ± 0.1 | c |
| Boötes I | 210.0200 | 14.5135 | 9.97 ± 0.27 | 0.30 ± 0.03 | 6.0 ± 3.0 | $160.4^{+8.7}_{-7.8}$ | 19.11 ± 0.08 | $66.4^{+2.5}_{-2.4}$ | 13.1 | -6.0 ± 0.2 | d,e |
| Boötes II | 209.5141 | 12.8553 | 3.17 ± 0.42 | 0.25 ± 0.11 | -68.0 ± 27.0 | 33.1 ± 5.0 | 18.10 ± 0.06 | $41.7^{+1.2}_{-1.1}$ | 15.2 | -2.9 ± 0.2 | e,f |
| Boötes III | 209.3000 | 26.8000 | $40.60^{+4.20}_{-3.80}$ | $0.33^{+0.08}_{-0.09}$ | $279.0^{+7.0}_{-9.0}$ | $446.6^{+56.1}_{-50.2}$ | 18.34 ± 0.02 | 46.6 ± 0.4 | 12.6 | -5.7 ± 0.5 | g,h,i |
| Boötes IV | 233.6890 | 43.7260 | 7.60 ± 0.80 | 0.64 ± 0.05 | 3.0 ± 4.0 | $273.0^{+43.9}_{-36.9}$ | 21.60 ± 0.20 | $208.9^{+20.2}_{-18.4}$ | 16.3 | $-5.3^{+0.3}_{-0.2}$ | j,k |
| Boötes V | 213.9090 | 32.9140 | $0.76^{+0.08}_{-0.07}$ | 0.20 ± 0.10 | $18.0^{+15.0}_{-13.0}$ | $20.0^{+3.0}_{-2.6}$ | 20.04 ± 0.15 | $101.9^{+7.3}_{-6.8}$ | 16.8 | -3.2 ± 0.3 | l |
| Canes Venatici I | 202.0091 | 33.5521 | 7.12 ± 0.21 | 0.44 ± 0.03 | 80.0 ± 2.0 | $326.1^{+15.0}_{-14.7}$ | 21.62 ± 0.06 | $210.9^{+5.9}_{-5.7}$ | 12.9 | -8.7 ± 0.1 | m,e |
| Canes Venatici II | 194.2927 | 34.3226 | 1.52 ± 0.24 | 0.40 ± 0.13 | 9.0 ± 15.0 | $54.0^{+10.4}_{-9.7}$ | 21.02 ± 0.06 | $160.0^{+4.5}_{-4.4}$ | 15.8 | -5.2 ± 0.3 | n,e |
| Carina | 100.4065 | -50.9593 | 10.10 ± 0.10 | 0.36 ± 0.01 | 60.0 ± 1.0 | $247.8^{+13.6}_{-12.1}$ | 20.12 ± 0.11 | $105.6^{+5.5}_{-5.3}$ | 10.7 | -9.4 ± 0.1 | o,e |
| Carina II | 114.1066 | -57.9991 | 8.69 ± 0.75 | 0.34 ± 0.07 | 170.0 ± 9.0 | $76.3^{+8.2}_{-7.6}$ | 17.86 ± 0.02 | 37.4 ± 0.4 | 13.3 | -4.6 ± 0.1 | p |
| Carina III | 114.6298 | -57.8997 | 3.75 ± 1.00 | 0.55 ± 0.18 | 150.0 ± 14.0 | $19.4^{+7.3}_{-6.8}$ | 17.22 ± 0.10 | 27.8 ± 1.3 | 14.8 | -2.4 ± 0.2 | p |
| Centaurus I | 189.5850 | -40.9020 | $2.90^{+0.50}_{-0.40}$ | 0.40 ± 0.10 | 20.0 ± 11.0 | $76.8^{+13.2}_{-13.1}$ | 20.35 ± 0.07 | $117.7^{+3.9}_{-3.7}$ | 14.8 | -5.6 ± 0.1 | q,r |
| Cetus II | 19.4700 | -17.4200 | $1.90^{+1.00}_{-0.50}$ | < 0.40 | | $16.5^{+6.1}_{-6.6}$ | 17.38 ± 0.19 | $29.9^{+2.7}_{-2.5}$ | 17.4 | 0.0 ± 0.7 | s |
| Cetus III | 31.3310 | -4.2700 | $1.23^{+0.42}_{-0.19}$ | $0.76^{+0.06}_{-0.08}$ | $101.0^{+5.0}_{-6.0}$ | $43.0^{+14.0}_{-13.3}$ | 22.00 ± 0.20 | $251.2^{+24.2}_{-22.1}$ | 18.6 | $-3.4^{+0.5}_{-0.4}$ | t,k |
| Columba I | 82.8570 | -28.0425 | 2.20 ± 0.20 | 0.30 ± 0.10 | 24.0 ± 9.0 | $97.7^{+12.7}_{-12.3}$ | 21.31 ± 0.11 | $182.8^{+9.5}_{-9.0}$ | 17.1 | -4.2 ± 0.2 | u |
| Coma Berenices | 186.7454 | 23.9069 | 5.64 ± 0.30 | 0.37 ± 0.05 | -57.0 ± 4.0 | 54.9 ± 4.1 | 18.13 ± 0.08 | $42.3^{+1.6}_{-1.5}$ | 13.8 | -4.3 ± 0.2 | e,v |
| Crater II | 177.3100 | -18.4130 | 31.20 ± 2.50 | < 0.10 | | $1053.1^{+93.8}_{-81.1}$ | 20.33 ± 0.07 | $116.6^{+3.8}_{-3.7}$ | 12.2 | -8.2 ± 0.1 | w |
| Draco | 260.0684 | 57.9185 | 9.67 ± 0.09 | 0.29 ± 0.01 | 87.0 ± 1.0 | $193.4^{+4.9}_{-4.3}$ | 19.56 ± 0.04 | 81.5 ± 1.5 | 10.7 | -8.9 ± 0.1 | x,e |
| Draco II | 238.1983 | 64.5653 | $3.00^{+0.70}_{-0.50}$ | 0.23 ± 0.15 | $76.0^{+22.0}_{-32.0}$ | $16.3^{+3.8}_{-3.7}$ | 16.67 ± 0.05 | 21.6 ± 0.5 | 15.9 | $-0.8^{+0.4}_{-1.0}$ | y |
| Eridanus II | 56.0925 | -43.5329 | 2.31 ± 0.12 | 0.48 ± 0.04 | 72.6 ± 3.3 | $178.5^{+13.5}_{-12.4}$ | 22.84 ± 0.05 | $369.8^{+8.6}_{-8.4}$ | 15.7 | -7.1 ± 0.3 | z,aa |
| Eridanus IV | 76.4380 | -9.5150 | $4.90^{+1.10}_{-0.80}$ | $0.54^{+0.10}_{-0.14}$ | $65.0^{+9.0}_{-8.0}$ | $73.1^{+18.2}_{-16.8}$ | $19.42^{+0.01}_{-0.08}$ | $76.6^{+0.4}_{-2.8}$ | 14.7 | -4.7 ± 0.2 | ab |
| Fornax | 39.9583 | -34.4997 | 19.90 ± 0.06 | 0.29 ± 0.00 | 42.7 ± 0.3 | $695.3^{+16.3}_{-15.4}$ | 20.77 ± 0.05 | $142.6^{+3.2}_{-3.1}$ | 7.4 | -13.4 ± 0.2 | e,ac,ad |
| Grus I | 344.1660 | -50.1680 | $4.16^{+0.54}_{-0.74}$ | $0.44^{+0.08}_{-0.10}$ | $153.0^{+8.0}_{-7.0}$ | $114.1^{+22.9}_{-19.6}$ | 20.51 ± 0.10 | $126.5^{+6.0}_{-5.7}$ | 16.4 | -4.1 ± 0.3 | ae,af |
| Grus II | 331.0250 | -46.4420 | 5.90 ± 0.50 | < 0.21 | | $94.5^{+9.2}_{-9.5}$ | 18.71 ± 0.10 | $55.2^{+2.6}_{-2.5}$ | 15.2 | -3.5 ± 0.3 | af,ag |
| Hercules | 247.7722 | 12.7852 | 5.63 ± 0.46 | 0.69 ± 0.03 | -73.0 ± 2.0 | $118.8^{+12.7}_{-12.4}$ | 20.58 ± 0.10 | $130.6^{+6.2}_{-5.9}$ | 14.8 | -5.8 ± 0.2 | e,ah |
| Horologium I | 43.8755 | -54.1174 | 1.61 ± 0.13 | 0.27 ± 0.05 | 44.0 ± 6.0 | $31.8^{+3.1}_{-3.3}$ | 19.50 ± 0.10 | $79.4^{+3.7}_{-3.6}$ | 16.1 | -3.4 ± 0.1 | ai,aj |

Table 2 continued on next page

Table 2 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|---------------|----------|----------|-------------------------|------------------------|-------------------------|----------------------------|-------------------------|-------------------------|------|----------------------|----------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Horologium II | 49.1310 | -50.0090 | $1.69^{+0.18}_{-0.17}$ | $0.23^{+0.07}_{-0.08}$ | $103.0^{+11.0}_{-14.0}$ | $33.6^{+4.9}_{-4.6}$ | 19.46 ± 0.20 | $78.0^{+7.5}_{-6.9}$ | 17.4 | -2.1 ± 0.1 | ak,aj |
| Hydra II | 185.4286 | -31.9728 | 1.52 ± 0.28 | 0.24 ± 0.16 | 16.0 ± 25.0 | $56.5^{+12.9}_{-12.7}$ | 20.90 ± 0.11 | $151.4^{+7.9}_{-7.5}$ | 15.8 | $-5.1^{+0.1}_{-0.2}$ | e,aj,al |
| Hydrus I | 37.3890 | -79.3089 | $7.42^{+0.62}_{-0.54}$ | $0.21^{+0.15}_{-0.07}$ | 97.0 ± 14.0 | $52.3^{+5.8}_{-5.5}$ | 17.20 ± 0.04 | 27.5 ± 0.5 | 12.5 | -4.7 ± 0.1 | am |
| Leo I | 152.1146 | 12.3059 | 3.65 ± 0.03 | 0.30 ± 0.10 | 78.0 ± 1.0 | $227.4^{+17.7}_{-17.9}$ | 22.06 ± 0.08 | $258.2^{+9.7}_{-9.3}$ | 10.2 | -11.8 ± 0.3 | e,an |
| Leo II | 168.3627 | 22.1529 | 2.52 ± 0.03 | 0.07 ± 0.01 | 38.0 ± 8.0 | $164.7^{+10.4}_{-9.4}$ | 21.84 ± 0.13 | $233.3^{+14.4}_{-13.6}$ | 12.1 | -9.7 ± 0.0 | ao,e |
| Leo IV | 173.2405 | -0.5453 | 2.54 ± 0.27 | 0.17 ± 0.09 | -28.0 ± 38.0 | $101.3^{+12.5}_{-10.8}$ | 20.90 ± 0.06 | $151.4^{+4.2}_{-4.1}$ | 15.9 | -4.9 ± 0.3 | ap,e |
| Leo V | 172.7857 | 2.2194 | 1.00 ± 0.32 | 0.43 ± 0.22 | -71.0 ± 26.0 | $35.8^{+15.4}_{-13.8}$ | 21.14 ± 0.06 | $169.0^{+4.7}_{-4.6}$ | 16.7 | -4.4 ± 0.4 | ap,e |
| Leo Minor I | 164.2610 | 28.8750 | $1.09^{+0.37}_{-0.35}$ | < 0.40 | | $25.4^{+9.5}_{-9.0}$ | $19.56^{+0.11}_{-0.19}$ | $81.7^{+4.2}_{-6.8}$ | 17.2 | $-2.4^{+0.5}_{-0.4}$ | l |
| LMC | 80.8940 | -69.7561 | 192.90 ± 0.20 | 0.16 ± 0.00 | 227.2 ± 0.2 | $2543.6^{+28.6}_{-28.7}$ | 18.48 ± 0.02 | $49.6^{+0.6}_{-0.5}$ | 0.4 | -18.1 ± 0.1 | aq,ar,as |
| Pegasus III | 336.1074 | 5.4150 | $1.67^{+0.26}_{-0.21}$ | $0.37^{+0.08}_{-0.09}$ | $83.0^{+8.0}_{-7.0}$ | $81.8^{+13.6}_{-13.1}$ | 21.66 ± 0.12 | $214.8^{+12.2}_{-11.5}$ | 17.5 | -4.2 ± 0.2 | at,au |
| Pegasus IV | 328.5390 | 26.6200 | $1.60^{+0.29}_{-0.25}$ | < 0.41 | $115.0^{+27.0}_{-41.0}$ | $41.9^{+7.1}_{-7.0}$ | 19.77 ± 0.03 | $89.9^{+1.3}_{-1.2}$ | 15.5 | -4.2 ± 0.2 | av |
| Phoenix II | 354.9919 | -54.4019 | $1.50^{+0.20}_{-0.17}$ | 0.44 ± 0.06 | -33.0 ± 5.0 | $26.6^{+4.9}_{-3.9}$ | 19.60 ± 0.20 | $83.2^{+8.0}_{-7.3}$ | 17.0 | -2.6 ± 0.1 | aw,aj |
| Pictor I | 70.9475 | -50.2831 | 1.29 ± 0.15 | $0.44^{+0.07}_{-0.09}$ | 55.0 ± 6.0 | $32.0^{+4.8}_{-4.3}$ | 20.30 ± 0.10 | $114.8^{+5.4}_{-5.2}$ | 17.2 | -3.1 ± 0.3 | ai,i |
| Pictor II | 101.1800 | -59.8970 | $3.80^{+1.50}_{-1.00}$ | $0.13^{+0.22}_{-0.13}$ | $14.0^{+60.0}_{-66.0}$ | $45.4^{+14.6}_{-13.8}$ | $18.30^{+0.12}_{-0.15}$ | $45.7^{+2.6}_{-3.1}$ | 15.1 | $-3.2^{+0.4}_{-0.5}$ | ax |
| Pisces II | 344.6365 | 5.9555 | $1.34^{+0.08}_{-0.07}$ | $0.37^{+0.04}_{-0.03}$ | 98.0 ± 3.0 | $56.3^{+5.9}_{-5.6}$ | 21.31 ± 0.17 | $182.8^{+14.9}_{-13.8}$ | 17.0 | -4.3 ± 0.2 | au,ay |
| Reticulum II | 53.9203 | -54.0513 | 6.30 ± 0.40 | 0.60 ± 0.10 | 68.0 ± 2.0 | $36.1^{+5.4}_{-5.0}$ | 17.50 ± 0.10 | $31.6^{+1.5}_{-1.4}$ | 14.4 | -3.1 ± 0.1 | aw |
| Reticulum III | 56.3600 | -60.4500 | $2.40^{+0.90}_{-0.80}$ | < 0.40 | | $63.3^{+27.1}_{-23.0}$ | 19.81 ± 0.31 | $91.6^{+14.1}_{-12.2}$ | 16.5 | -3.3 ± 0.3 | s |
| Sagittarius | 283.8313 | -30.5454 | 342.00 ± 12.00 | 0.64 ± 0.02 | 102.0 ± 2.0 | $1563.2^{+136.4}_{-121.8}$ | 17.10 ± 0.15 | $26.3^{+1.9}_{-1.8}$ | 3.6 | -13.5 ± 0.3 | az |
| Sculptor | 15.0183 | -33.7186 | 11.17 ± 0.05 | 0.33 ± 0.01 | 92.0 ± 1.0 | $223.5^{+4.6}_{-4.8}$ | 19.62 ± 0.04 | $83.9^{+1.6}_{-1.5}$ | 8.8 | -10.8 ± 0.1 | ba,e |
| Segue 1 | 151.7504 | 16.0756 | 3.62 ± 0.42 | 0.33 ± 0.10 | 77.0 ± 15.0 | $19.3^{+3.5}_{-3.1}$ | 16.80 ± 0.20 | $22.9^{+2.2}_{-2.0}$ | 15.5 | -1.3 ± 0.7 | bb,e |
| Segue 2 | 34.8226 | 20.1624 | 3.76 ± 0.28 | 0.22 ± 0.07 | 164.0 ± 14.0 | $35.3^{+4.1}_{-4.0}$ | $17.81^{+0.14}_{-0.15}$ | 36.5 ± 2.4 | 15.9 | -1.9 ± 0.9 | bc,e |
| Sextans | 153.2628 | -1.6133 | 16.50 ± 0.10 | 0.30 ± 0.01 | 57.0 ± 1.0 | $345.2^{+16.7}_{-17.3}$ | 19.67 ± 0.10 | $85.9^{+4.0}_{-3.9}$ | 10.9 | -8.7 ± 0.1 | bd,e |
| Sextans II | 156.4370 | -0.6310 | 4.20 ± 0.50 | $0.43^{+0.07}_{-0.08}$ | -17.0 ± 9.0 | $114.6^{+19.5}_{-18.6}$ | 20.50 ± 0.20 | $125.9^{+12.1}_{-11.1}$ | 16.6 | -3.9 ± 0.4 | k |
| SMC | 13.1580 | -72.8003 | | | | | 18.99 ± 0.10 | $62.8^{+3.0}_{-2.8}$ | 2.2 | -16.8 ± 0.2 | be,as |
| Triangulum II | 33.3155 | 36.1691 | 2.50 ± 0.30 | 0.30 ± 0.10 | 73.0 ± 17.0 | $17.1^{+2.7}_{-2.4}$ | 17.27 ± 0.11 | $28.4^{+1.5}_{-1.4}$ | 16.0 | -1.3 ± 0.2 | u,aj |
| Tucana II | 342.9796 | -58.5689 | $12.89^{+1.71}_{-1.98}$ | $0.39^{+0.10}_{-0.20}$ | 107.0 ± 18.0 | $160.5^{+38.9}_{-30.8}$ | 18.75 ± 0.20 | $56.2^{+5.4}_{-4.9}$ | 15.0 | -3.8 ± 0.1 | ai,bf |
| Tucana III | 359.1075 | -59.5833 | 5.10 ± 1.20 | 0.20 ± 0.10 | 25.0 ± 38.0 | $30.3^{+7.2}_{-7.6}$ | 16.80 ± 0.10 | $22.9^{+1.1}_{-1.0}$ | 15.5 | -1.3 ± 0.2 | aw |
| Tucana IV | 0.7170 | -60.8300 | $9.30^{+1.40}_{-0.90}$ | $0.39^{+0.07}_{-0.10}$ | $27.0^{+9.0}_{-8.0}$ | $98.6^{+18.4}_{-15.8}$ | 18.36 ± 0.18 | $47.0^{+4.1}_{-3.7}$ | 15.4 | $-3.0^{+0.3}_{-0.4}$ | ag |
| Tucana V | 354.3470 | -63.2660 | $2.10^{+0.60}_{-0.40}$ | $0.51^{+0.09}_{-0.18}$ | 29.0 ± 11.0 | $23.1^{+7.2}_{-6.1}$ | 18.70 ± 0.21 | $55.0^{+5.6}_{-5.1}$ | 17.6 | $-1.1^{+0.5}_{-0.6}$ | ag |
| Ursa Major I | 158.7706 | 51.9479 | 8.31 ± 0.35 | 0.59 ± 0.03 | 67.0 ± 2.0 | $149.8^{+13.7}_{-11.1}$ | 19.94 ± 0.13 | $97.3^{+6.0}_{-5.7}$ | 14.8 | -5.1 ± 0.4 | bg,e |

Table 2 continued on next page

Table 2 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------------|----------|---------|------------------------|------------------------|-------------------------|-----------------------|------------------|-------------------------|------|----------------------|------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Ursa Major II | 132.8726 | 63.1335 | 13.80 ± 0.50 | 0.56 ± 0.03 | -76.0 ± 2.0 | $91.5^{+7.4}_{-6.3}$ | 17.70 ± 0.13 | $34.7^{+2.1}_{-2.0}$ | 13.3 | -4.4 ± 0.3 | bh,e |
| Ursa Major III | 174.7075 | 31.0783 | $0.90^{+0.40}_{-0.30}$ | $0.50^{+0.20}_{-0.30}$ | $169.0^{+18.0}_{-12.0}$ | $1.8^{+1.0}_{-0.9}$ | 15.00 ± 0.20 | $10.0^{+1.0}_{-0.9}$ | 17.2 | $2.2^{+0.4}_{-0.3}$ | bi |
| Ursa Minor | 227.2420 | 67.2221 | 18.30 ± 0.11 | 0.55 ± 0.01 | 50.0 ± 1.0 | $236.1^{+3.1}_{-3.3}$ | 19.10 | 66.1 | 10.4 | -8.7 ± 0.1 | e,bj |
| Virgo I | 180.0380 | -0.6810 | $1.76^{+0.49}_{-0.40}$ | $0.59^{+0.12}_{-0.14}$ | $62.0^{+8.0}_{-13.0}$ | $28.9^{+10.4}_{-8.5}$ | 19.80 ± 0.20 | $91.2^{+8.8}_{-8.0}$ | 18.9 | -0.9 ± 0.7 | t,k |
| Virgo II | 225.0590 | 5.9090 | $0.74^{+0.13}_{-0.11}$ | < 0.30 | | $15.3^{+3.4}_{-2.9}$ | 19.30 ± 0.22 | $72.4^{+7.7}_{-7.0}$ | 17.7 | $-1.6^{+0.4}_{-0.6}$ | l |
| Virgo III | 186.3480 | 4.4410 | 1.00 ± 0.20 | $0.29^{+0.15}_{-0.19}$ | $-24.0^{+21.0}_{-26.0}$ | $36.3^{+9.7}_{-8.1}$ | 20.90 ± 0.20 | $151.4^{+14.6}_{-13.3}$ | 18.2 | $-2.7^{+0.5}_{-0.6}$ | k |
| Willman 1 | 162.3436 | 51.0501 | 2.51 ± 0.22 | 0.47 ± 0.06 | 73.0 ± 4.0 | $20.1^{+4.5}_{-4.2}$ | 17.90 ± 0.40 | $38.0^{+7.7}_{-6.4}$ | 15.4 | -2.5 ± 0.7 | e,bk |

NOTE—Column descriptions: **RA** and **Dec**—IRCS, J2000; r_h —Major axis of 2D projected half-light radius; ϵ —ellipticity ($1 - b/a$); θ —position angle defined north to east; $r_{1/2}$ —spherically averaged half-light radius ($r_{1/2} = R_h \sqrt{1 - \epsilon}$); $(m - M)_0$ —distance modulus; d —distance to satellite; V —V-band magnitude; M_V —absolute V-band magnitude, the distance errors are not included. Citations: (a) Ji et al. (2021) (b) Vivas et al. (2022) (c) Torrealba et al. (2016b) (d) Dall’Ora et al. (2006) (e) Muñoz et al. (2018) (f) Walsh et al. (2008) (g) Carlin & Sand (2018) (h) Correnti et al. (2009) (i) Moskowicz & Walker (2020) (j) Homma et al. (2019) (k) Homma et al. (2023) (l) Cerny et al. (2023a) (m) Kuehn et al. (2008) (n) Greco et al. (2008) (o) Karczmarek et al. (2015) (p) Torrealba et al. (2018) (q) Martínez-Vázquez et al. (2021a) (r) Mau et al. (2020) (s) Drlica-Wagner et al. (2015) (t) Homma et al. (2018) (u) Carlin et al. (2017) (v) Musella et al. (2009) (w) Torrealba et al. (2016a) (x) Bhardwaj et al. (2024) (y) Longeard et al. (2018) (z) Crnojević et al. (2016a) (aa) Martínez-Vázquez et al. (2021b) (ab) Cerny et al. (2021a) (ac) Oakes et al. (2022) (ad) Wang et al. (2019a) (ae) Cantu et al. (2021) (af) Martínez-Vázquez et al. (2019) (ag) Simon et al. (2020) (ah) Mutlu-Pakdil et al. (2020) (ai) Koposov et al. (2015a) (aj) Richstein et al. (2024) (ak) Kim & Jerjen (2015a) (al) Vivas et al. (2016) (am) Koposov et al. (2018) (an) Stetson et al. (2014) (ao) Bellazzini et al. (2005) (ap) Medina et al. (2018) (aq) Choi et al. (2018) (ar) Pietrzyński et al. (2019) (as) de Vaucouleurs et al. (1991) (at) Kim et al. (2016b) (au) Richstein et al. (2022) (av) Cerny et al. (2023b) (aw) Mutlu-Pakdil et al. (2018) (ax) Drlica-Wagner et al. (2016) (ay) Sand et al. (2012) (az) McConnachie (2012) (ba) Martínez-Vázquez et al. (2015) (bb) Belokurov et al. (2007) (bc) Boettcher et al. (2013) (bd) Lee et al. (2009) (be) Cioni et al. (2000) (bf) Vivas et al. (2020) (bg) Garofalo et al. (2013) (bh) Dall’Ora et al. (2012) (bi) Smith et al. (2024) (bj) Nemec et al. (1988) (bk) Willman et al. (2006)

Table 3. Properties of Milky Way dwarf galaxies

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{\text{[Fe/H]}}$ | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|-------------------|----------|----------|------------------------|------------------------|-------------------------|--------------------------|----------------------------|----------------------------|-------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Antlia II | 264.8009 | 11.2543 | 288.8 ± 0.4 | $5.98^{+0.37}_{-0.36}$ | -1.90 ± 0.04 | 0.34 ± 0.03 | -0.093 ± 0.008 | 0.100 ± 0.009 | a,b |
| Aquarius II | 55.1082 | -53.0085 | -65.3 ± 1.8 | $4.70^{+1.80}_{-1.20}$ | -2.57 ± 0.17 | $0.36^{+0.20}_{-0.14}$ | $-0.179^{+0.119}_{-0.113}$ | $-0.466^{+0.096}_{-0.095}$ | c,b |
| Boötes I | 358.1019 | 69.6366 | 101.8 ± 0.7 | $4.60^{+0.80}_{-0.60}$ | $-2.35^{+0.09}_{-0.08}$ | $0.44^{+0.07}_{-0.06}$ | -0.385 ± 0.017 | -1.068 ± 0.013 | d,b,e |
| Boötes II | 353.7314 | 68.8649 | $-130.4^{+1.4}_{-1.1}$ | $2.90^{+1.60}_{-1.20}$ | $-2.71^{+0.11}_{-0.10}$ | < 0.37 | $-2.426^{+0.080}_{-0.077}$ | -0.414 ± 0.061 | c,b |
| Boötes III | 35.4052 | 75.3535 | 197.5 ± 3.6 | 10.70 ± 3.50 | -2.10 ± 0.20 | 0.55 ± 0.19 | -1.176 ± 0.019 | -0.890 ± 0.015 | f,b |
| Boötes IV | 70.6823 | 53.3050 | | | | | $0.469^{+0.180}_{-0.244}$ | $0.489^{+0.256}_{-0.255}$ | b |
| Boötes V | 55.6680 | 70.9177 | 5.1 ± 13.4 | | -2.85 ± 0.10 | | -0.220 ± 0.050 | -0.280 ± 0.070 | g,h |
| Canes Venatici I | 74.3043 | 79.8288 | 30.9 ± 0.6 | 7.60 ± 0.40 | -1.91 ± 0.04 | $0.39^{+0.03}_{-0.02}$ | $-0.096^{+0.030}_{-0.031}$ | -0.116 ± 0.020 | b,i,e |
| Canes Venatici II | 113.5744 | 82.7012 | -128.9 ± 1.2 | 4.60 ± 0.80 | $-2.35^{+0.16}_{-0.19}$ | $0.57^{+0.15}_{-0.12}$ | $-0.124^{+0.117}_{-0.115}$ | $-0.254^{+0.082}_{-0.080}$ | b,i,e |
| Carina | 260.1060 | -22.2194 | 222.9 ± 0.1 | 6.60 ± 1.20 | -1.80 ± 0.02 | 0.24 | $0.532^{+0.007}_{-0.006}$ | 0.127 ± 0.006 | b,e,j |
| Carina II | 269.9816 | -17.1398 | 477.2 ± 1.2 | $3.40^{+1.20}_{-0.80}$ | -2.44 ± 0.09 | $0.22^{+0.10}_{-0.07}$ | $1.885^{+0.018}_{-0.019}$ | 0.133 ± 0.019 | k,b |
| Carina III | 270.0060 | -16.8458 | $284.6^{+3.4}_{-3.1}$ | $5.60^{+4.30}_{-2.10}$ | | | $3.095^{+0.040}_{-0.041}$ | 1.395 ± 0.045 | k,b |
| Centaurus I | 300.2649 | 21.9019 | 44.8 ± 0.8 | $4.20^{+0.60}_{-0.50}$ | -2.57 ± 0.08 | $0.38^{+0.07}_{-0.05}$ | -0.140 ± 0.050 | -0.190 ± 0.040 | l |
| Cetus II | 156.4655 | -78.5313 | | | | | $2.844^{+0.061}_{-0.059}$ | $0.474^{+0.064}_{-0.063}$ | b |
| Cetus III | 163.8102 | -61.1333 | | | | | | | |
| Columba I | 231.6333 | -28.8855 | 153.7 ± 4.9 | < 6.70 | $-2.37^{+0.35}_{-0.34}$ | $0.71^{+0.49}_{-0.24}$ | $0.169^{+0.071}_{-0.073}$ | -0.400 ± 0.079 | m,b |
| Coma Berenices | 241.8639 | 83.6123 | 98.1 ± 0.9 | 4.60 ± 0.80 | -2.43 ± 0.11 | $0.46^{+0.09}_{-0.08}$ | $0.423^{+0.026}_{-0.027}$ | -1.721 ± 0.024 | b,i,e |
| Crater II | 282.9084 | 42.0276 | 89.3 ± 0.3 | $2.34^{+0.42}_{-0.30}$ | -2.16 ± 0.04 | 0.24 ± 0.05 | -0.072 ± 0.020 | -0.112 ± 0.013 | a,b |
| Draco | 86.3711 | 34.7126 | -290.7 ± 0.8 | 9.10 ± 1.20 | -2.00 ± 0.02 | 0.34 ± 0.02 | $0.044^{+0.005}_{-0.006}$ | -0.188 ± 0.006 | b,e,n |
| Draco II | 98.2942 | 42.8800 | $-342.5^{+1.1}_{-1.2}$ | < 5.90 | -2.70 ± 0.10 | | $1.027^{+0.067}_{-0.065}$ | 0.887 ± 0.072 | o,b |
| Eridanus II | 249.7802 | -51.6431 | 75.6 ± 1.3 | $6.90^{+1.20}_{-0.90}$ | -2.38 ± 0.13 | $0.47^{+0.12}_{-0.90}$ | $0.125^{+0.101}_{-0.100}$ | $0.013^{+0.123}_{-0.127}$ | p,b |
| Eridanus IV | 209.4987 | -27.7715 | $-31.5^{+1.3}_{-1.2}$ | $6.10^{+1.20}_{-0.90}$ | $-2.87^{+0.08}_{-0.07}$ | 0.20 ± 0.09 | 0.250 ± 0.060 | -0.100 ± 0.050 | q,l |
| Fornax | 237.2382 | -65.6741 | 55.2 ± 0.1 | 12.10 ± 0.20 | $-1.07^{+0.02}_{-0.01}$ | 0.27 ± 0.01 | 0.381 ± 0.001 | -0.359 ± 0.002 | b,e,j |
| Grus I | 338.6794 | -58.2366 | -143.5 ± 1.2 | $2.50^{+1.30}_{-0.80}$ | -2.62 ± 0.11 | < 0.44 | $0.069^{+0.051}_{-0.050}$ | $-0.248^{+0.071}_{-0.072}$ | r,b |
| Grus II | 351.1386 | -51.9414 | -110.0 ± 0.5 | < 2.00 | -2.51 ± 0.11 | < 0.45 | 0.384 ± 0.033 | $-1.484^{+0.039}_{-0.040}$ | b,s |
| Hercules | 28.7277 | 36.8563 | 45.0 ± 1.1 | 5.10 ± 0.90 | $-2.47^{+0.13}_{-0.12}$ | $0.47^{+0.11}_{-0.08}$ | -0.035 ± 0.042 | $-0.339^{+0.035}_{-0.036}$ | b,i,e |
| Horologium I | 271.3897 | -54.7369 | $112.8^{+2.5}_{-2.6}$ | $4.90^{+2.80}_{-0.90}$ | -2.76 ± 0.10 | $0.17^{+0.20}_{-0.03}$ | $0.847^{+0.034}_{-0.035}$ | -0.607 ± 0.035 | t,b |

Table 3 continued on next page

Table 3 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{\text{[Fe/H]}}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|---------------|----------|----------|------------------------|------------------------|-------------------------|--------------------------|----------------------------|----------------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Horologium II | 262.4593 | -54.1430 | | | | | $0.967^{+0.173}_{-0.171}$ | $-0.771^{+0.220}_{-0.230}$ | b |
| Hydra II | 295.6184 | 30.4765 | 303.1 ± 1.4 | < 4.50 | -2.02 ± 0.08 | $0.40^{+0.48}_{-0.26}$ | -0.394 ± 0.140 | $0.000^{+0.103}_{-0.104}$ | u,b |
| Hydrus I | 297.4163 | -36.7463 | 80.4 ± 0.6 | $2.70^{+0.51}_{-0.43}$ | -2.52 ± 0.09 | 0.41 ± 0.08 | 3.781 ± 0.016 | -1.496 ± 0.015 | v,b |
| Leo I | 225.9847 | 49.1100 | 282.9 ± 0.5 | 9.20 ± 0.40 | $-1.48^{+0.02}_{-0.01}$ | 0.26 ± 0.01 | -0.050 ± 0.014 | -0.120 ± 0.010 | w,b,e |
| Leo II | 220.1608 | 67.2252 | 78.5 ± 0.6 | 7.40 ± 0.40 | $-1.68^{+0.02}_{-0.03}$ | 0.34 ± 0.02 | -0.109 ± 0.028 | -0.150 ± 0.026 | b,e,x |
| Leo IV | 265.4577 | 56.5060 | $131.6^{+1.0}_{-1.2}$ | $3.40^{+1.30}_{-0.90}$ | $-2.48^{+0.16}_{-0.13}$ | $0.42^{+0.12}_{-0.10}$ | -0.192 ± 0.051 | -0.069 ± 0.052 | y,z |
| Leo V | 261.8564 | 58.5344 | $173.1^{+1.0}_{-0.8}$ | < 4.70 | $-2.29^{+0.14}_{-0.17}$ | $0.30^{+0.14}_{-0.09}$ | 0.119 ± 0.194 | -0.118 ± 0.170 | y,z |
| Leo Minor I | 202.2324 | 64.7496 | | | | | $-0.010^{+0.390}_{-0.400}$ | $-1.290^{+0.370}_{-0.400}$ | g |
| LMC | 280.4652 | -32.8885 | 262.2 ± 3.4 | 20.20 ± 0.50 | | | 1.910 ± 0.020 | 0.229 ± 0.047 | aa,ab |
| Pegasus III | 69.8599 | -41.8262 | -222.9 ± 2.6 | $5.40^{+3.00}_{-2.50}$ | -2.55 ± 0.15 | | -0.030 ± 0.210 | $-0.580^{+0.213}_{-0.208}$ | ac,b |
| Pegasus IV | 80.7972 | -21.4031 | $-273.6^{+1.6}_{-1.5}$ | $3.30^{+1.70}_{-1.10}$ | $-2.67^{+0.25}_{-0.29}$ | $0.46^{+0.29}_{-0.17}$ | 0.330 ± 0.070 | -0.210 ± 0.080 | ad |
| Phoenix II | 323.6963 | -59.7506 | 32.4 ± 3.8 | < 21.20 | $-2.51^{+0.19}_{-0.17}$ | $0.33^{+0.29}_{-0.16}$ | $0.507^{+0.047}_{-0.048}$ | $-1.199^{+0.058}_{-0.057}$ | m,b |
| Pictor I | 257.2990 | -40.6450 | | | | | $0.153^{+0.086}_{-0.088}$ | $0.096^{+0.118}_{-0.114}$ | b |
| Pictor II | 269.6330 | -24.0520 | | | | | 1.150 ± 0.060 | $1.140^{+0.060}_{-0.050}$ | ae |
| Pisces II | 79.2175 | -47.1079 | -226.5 ± 2.7 | $5.40^{+3.60}_{-2.40}$ | -2.45 ± 0.07 | $0.48^{+0.70}_{-0.29}$ | $0.681^{+0.309}_{-0.307}$ | $-0.645^{+0.215}_{-0.209}$ | u,b |
| Reticulum II | 266.3007 | -49.7376 | 64.3 ± 1.2 | $3.60^{+1.00}_{-0.70}$ | -2.65 ± 0.07 | 0.28 ± 0.09 | $2.377^{+0.023}_{-0.024}$ | $-1.379^{+0.026}_{-0.025}$ | b,af,ag |
| Reticulum III | 273.8782 | -45.6478 | 274.2 ± 7.5 | < 8.30 | -2.81 ± 0.29 | $0.35^{+0.21}_{-0.09}$ | $0.260^{+0.140}_{-0.144}$ | $-0.502^{+0.222}_{-0.226}$ | m,b |
| Sagittarius | 5.5688 | -14.1665 | 140.0 ± 2.0 | 11.40 ± 0.70 | $-0.53^{+0.03}_{-0.02}$ | 0.17 ± 0.02 | -2.692 ± 0.001 | -1.359 ± 0.001 | ah,ai,e |
| Sculptor | 287.6961 | -83.1524 | 111.4 ± 0.1 | 9.20 ± 1.10 | $-1.73^{+0.03}_{-0.02}$ | 0.44 ± 0.02 | 0.100 ± 0.002 | -0.158 ± 0.002 | b,e,j |
| Segue 1 | 220.4776 | 50.4090 | 208.5 ± 0.9 | $3.70^{+1.40}_{-1.10}$ | -2.50 | | -2.102 ± 0.051 | $-3.375^{+0.044}_{-0.046}$ | b,aj |
| Segue 2 | 149.4462 | -38.1445 | -40.2 ± 0.9 | < 2.60 | -2.22 ± 0.13 | 0.43 | 1.446 ± 0.059 | $-0.322^{+0.049}_{-0.050}$ | ak,b |
| Sextans | 243.4973 | 42.2736 | 224.3 ± 0.1 | 7.90 ± 1.30 | -1.97 ± 0.04 | 0.38 ± 0.03 | $-0.409^{+0.009}_{-0.008}$ | 0.037 ± 0.009 | b,e,j |
| Sextans II | 245.3263 | 45.3223 | | | | | | | |
| SMC | 302.8085 | -44.3277 | 145.6 ± 0.6 | 27.60 ± 0.50 | | | -0.830 ± 0.020 | -1.210 ± 0.010 | al,am |
| Triangulum II | 140.8967 | -23.8319 | -381.7 ± 1.1 | < 4.20 | -2.24 ± 0.05 | $0.53^{+0.38}_{-0.12}$ | 0.575 ± 0.060 | $0.112^{+0.069}_{-0.067}$ | an,b |
| Tucana II | 328.0863 | -52.3248 | -124.7 ± 1.0 | $3.80^{+1.10}_{-0.70}$ | -2.77 | | $0.911^{+0.024}_{-0.026}$ | -1.280 ± 0.029 | ao,ap,b |
| Tucana III | 315.4236 | -56.1909 | -102.3 ± 0.4 | < 1.50 | $-2.42^{+0.07}_{-0.08}$ | < 0.19 | $-0.048^{+0.035}_{-0.036}$ | -1.638 ± 0.039 | b,aq |
| Tucana IV | 313.3093 | -55.3089 | $15.9^{+1.8}_{-1.7}$ | $4.30^{+1.70}_{-1.00}$ | $-2.49^{+0.15}_{-0.16}$ | < 0.64 | $0.534^{+0.050}_{-0.053}$ | $-1.707^{+0.054}_{-0.055}$ | b,s |
| Tucana V | 316.3148 | -51.8953 | $-34.7^{+0.9}_{-0.8}$ | $1.20^{+0.90}_{-0.60}$ | $-2.84^{+0.32}_{-0.30}$ | $0.43^{+0.32}_{-0.15}$ | $-0.140^{+0.040}_{-0.050}$ | $-1.180^{+0.050}_{-0.060}$ | ae,ar,s |
| Ursa Major I | 159.3624 | 54.4268 | -55.3 ± 1.4 | 7.00 ± 1.00 | $-2.16^{+0.11}_{-0.13}$ | $0.62^{+0.10}_{-0.08}$ | -0.401 ± 0.036 | $-0.613^{+0.040}_{-0.042}$ | b,i,e |

Table 3 continued on next page

Table 3 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{\text{[Fe/H]}}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------------|----------|---------|--------------------|------------------------|-------------------------|--------------------------|---------------------------|----------------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Ursa Major II | 152.4603 | 37.4410 | -116.5 ± 1.9 | 6.70 ± 1.40 | $-2.23^{+0.21}_{-0.24}$ | $0.67^{+0.20}_{-0.15}$ | 1.731 ± 0.021 | $-1.906^{+0.024}_{-0.025}$ | b,i,e |
| Ursa Major III | 194.6164 | 73.6766 | 88.6 ± 1.3 | $3.70^{+1.40}_{-1.00}$ | | | -0.750 ± 0.090 | 1.150 ± 0.140 | as |
| Ursa Minor | 104.9817 | 44.8126 | -247.0 ± 0.4 | 8.60 ± 0.30 | -2.13 ± 0.02 | 0.35 ± 0.01 | -0.120 ± 0.005 | 0.071 ± 0.005 | at,b,au |
| Virgo I | 276.9419 | 59.5777 | | | | | | | |
| Virgo II | 4.0665 | 52.7543 | | | | | | | |
| Virgo III | 286.4759 | 66.4770 | | | | | | | |
| Willman 1 | 158.5729 | 56.7833 | -14.1 ± 1.0 | 4.00 ± 0.80 | -2.19 ± 0.08 | | $0.255^{+0.077}_{-0.087}$ | $-1.110^{+0.095}_{-0.091}$ | b,av |

NOTE—Column descriptions: **l**—Galactic longitude; **b**—Galactic latitude; v_{los} —systemic heliocentric line-of-sight velocity (generally stellar); σ_{los} —stellar velocity dispersion; [Fe/H]—mean metallicity of the system, spectroscopic metallicity is preferred; $\sigma_{\text{[Fe/H]}}$ —metallicity dispersion; $\mu_{\alpha*}$ —systemic proper motion in $\alpha \cos \delta$ direction, ; μ_{δ} —systemic proper motion in δ direction. Citations: (a) Ji et al. (2021) (b) Pace et al. (2022) (c) Bruce et al. (2023) (d) Koposov et al. (2011) (e) Simon (2019) (f) Carlin et al. (2009) (g) Cerny et al. (2023a) (h) Smith et al. (2023) (i) Simon & Geha (2007) (j) Walker et al. (2009) (k) Li et al. (2018) (l) Heiger et al. (2024) (m) Fritz et al. (2019) (n) Walker et al. (2015b) (o) Longeard et al. (2018) (p) Li et al. (2017) (q) Cerny et al. (2021a) (r) Chiti et al. (2022) (s) Simon et al. (2020) (t) Koposov et al. (2015b) (u) Kirby et al. (2015) (v) Koposov et al. (2018) (w) Mateo et al. (2008) (x) Spencer et al. (2017) (y) Jenkins et al. (2021) (z) Júlio et al. (2024) (aa) Kallivayalil et al. (2013) (ab) van der Marel et al. (2002) (ac) Kim et al. (2016b) (ad) Cerny et al. (2023b) (ae) Battaglia et al. (2022) (af) Simon et al. (2015) (ag) Walker et al. (2015a) (ah) Gaia Collaboration et al. (2018) (ai) McConnachie (2012) (aj) Simon et al. (2011) (ak) Kirby et al. (2013a) (al) Harris & Zaritsky (2006) (am) Zivick et al. (2018) (an) Kirby et al. (2017a) (ao) Chiti et al. (2021) (ap) Chiti et al. (2023) (aq) Simon et al. (2017) (ar) Hansen et al. (2024) (as) Smith et al. (2024) (at) Pace et al. (2020) (au) Spencer et al. (2018) (av) Willman et al. (2011)

Table 4. Properties of Milky Way dwarf galaxies

| Name | M_\star M_\odot | $M_{\text{dyn}}(r_{1/2})$ M_\odot | $\Upsilon_{1/2}$ | M_{HI} M_\odot | M_{HI}/M_\star | Ref |
|-------------------|------------------------|--|------------------|------------------------------|-------------------------|----------|
| Antlia II | 1.3×10^6 | 7.9×10^7 | 119.2 | $< 9.8 \times 10^1$ | < 0.00007 | a,b |
| Aquarius II | 9.5×10^3 | 2.6×10^6 | 540.3 | $< 1.8 \times 10^3$ | < 0.2 | c,b,d |
| Boötes I | 4.4×10^4 | 3.2×10^6 | 144.9 | $< 2.6 \times 10^2$ | < 0.006 | e,f,g |
| Boötes II | 2.6×10^3 | 2.6×10^5 | 203.0 | $< 3.7 \times 10^1$ | < 0.01 | c,f,g |
| Boötes III | 3.4×10^4 | 4.8×10^7 | 2834.9 | $< 1.1 \times 10^2$ | < 0.003 | h,i,j,b |
| Boötes IV | 2.3×10^4 | | | | | k,l |
| Boötes V | 3.3×10^3 | | | | | m,n |
| Canes Venatici I | 5.3×10^5 | 1.8×10^7 | 66.1 | $< 1.1 \times 10^3$ | < 0.002 | f,o,g |
| Canes Venatici II | 2.0×10^4 | 1.1×10^6 | 107.8 | $< 2.4 \times 10^3$ | < 0.1 | f,b,o |
| Carina | 1.0×10^6 | 1.0×10^7 | 19.9 | $< 1.1 \times 10^3$ | < 0.001 | f,b,p |
| Carina II | 1.2×10^4 | 8.3×10^5 | 142.9 | $< 2.4 \times 10^2$ | < 0.02 | q,b,r |
| Carina III | 1.6×10^3 | 5.9×10^5 | 760.7 | $< 1.0 \times 10^2$ | < 0.06 | q,b,r |
| Centaurus I | 2.9×10^4 | 1.3×10^6 | 87.0 | | | s,t |
| Cetus II | 1.7×10^2 | | | $< 1.3 \times 10^2$ | < 0.7 | u,b |
| Cetus III | 4.1×10^3 | | | $< 8.5 \times 10^3$ | < 2 | v,l,b |
| Columba I | 8.2×10^3 | $< 4.1 \times 10^6$ | < 308.3 | $< 5.2 \times 10^3$ | < 0.6 | w,x,b |
| Coma Berenices | 8.9×10^3 | 1.1×10^6 | 243.6 | $< 5.9 \times 10^1$ | < 0.007 | f,o,g |
| Crater II | 3.2×10^5 | 5.4×10^6 | 33.6 | $< 2.9 \times 10^3$ | < 0.009 | a,b,y |
| Draco | 6.0×10^5 | 1.5×10^7 | 49.4 | $< 1.5 \times 10^2$ | < 0.0003 | f,g,z |
| Draco II | 3.6×10^2 | $< 5.3 \times 10^5$ | < 83319.7 | | | aa |
| Eridanus II | 1.2×10^5 | 7.9×10^6 | 131.7 | $< 2.9 \times 10^3$ | < 0.02 | ab,ac |
| Eridanus IV | 1.3×10^4 | 2.6×10^6 | 394.9 | | | ad,s |
| Fornax | 3.9×10^7 | 9.5×10^7 | 4.9 | $< 3.6 \times 10^3$ | < 0.00009 | f,b,p,ae |
| Grus I | 7.7×10^3 | 6.7×10^5 | 173.5 | $< 2.4 \times 10^3$ | < 0.3 | af,ag,b |
| Grus II | 4.3×10^3 | $< 3.5 \times 10^5$ | < 309.9 | $< 4.3 \times 10^2$ | < 0.1 | b,ah |
| Hercules | 3.6×10^4 | 2.9×10^6 | 160.2 | $< 1.5 \times 10^3$ | < 0.04 | f,b,o |
| Horologium I | 3.8×10^3 | 7.1×10^5 | 369.1 | $< 7.6 \times 10^2$ | < 0.2 | ai,b,aj |

Table 4 continued on next page

Table 4 (*continued*)

| Name | M_{\star} M_{\odot} | $M_{\text{dyn}}(r_{1/2})$ M_{\odot} | $\Upsilon_{1/2}$ | M_{HI} M_{\odot} | M_{HI}/M_{\star} | Ref |
|---------------|----------------------------|--|------------------|--------------------------------|---------------------------|-------------|
| Horologium II | 1.2×10^3 | | | $< 7.7 \times 10^2$ | < 0.7 | b,aj |
| Hydra II | 1.9×10^4 | $< 1.1 \times 10^6$ | < 75.7 | $< 3.2 \times 10^3$ | < 0.2 | ak,f,b,aj |
| Hydrus I | 1.3×10^4 | 3.6×10^5 | 54.7 | $< 1.2 \times 10^2$ | < 0.009 | al,b |
| Leo I | 9.1×10^6 | 1.8×10^7 | 4.0 | $< 3.6 \times 10^3$ | < 0.0004 | am,f,g |
| Leo II | 1.3×10^6 | 8.4×10^6 | 12.7 | $< 1.9 \times 10^3$ | < 0.001 | f,g,an |
| Leo IV | 1.6×10^4 | 1.1×10^6 | 134.1 | $< 2.3 \times 10^3$ | < 0.1 | ao,f,b |
| Leo V | 9.8×10^3 | $< 7.6 \times 10^5$ | < 222.6 | $< 3.6 \times 10^2$ | < 0.04 | ao,f,g |
| Leo Minor I | 1.6×10^3 | | | | | m |
| LMC | 2.9×10^9 | 9.7×10^8 | 0.7 | 4.3×10^8 | 0.1 | ap,aq,ar,as |
| Pegasus III | 8.0×10^3 | 2.2×10^6 | 564.1 | $< 3.4 \times 10^3$ | < 0.4 | at,b,au |
| Pegasus IV | 8.6×10^3 | 4.2×10^5 | 98.9 | | | av |
| Phoenix II | 1.9×10^3 | $< 1.1 \times 10^7$ | < 452.2 | $< 8.3 \times 10^2$ | < 0.4 | x,b,aj |
| Pictor I | 3.0×10^3 | | | $< 1.9 \times 10^3$ | < 0.6 | aw,j,b |
| Pictor II | 3.3×10^3 | | | $< 2.9 \times 10^2$ | < 0.09 | ax,b |
| Pisces II | 8.8×10^3 | 1.5×10^6 | 348.2 | $< 1.6 \times 10^3$ | < 0.2 | ak,b,au |
| Reticulum II | 3.0×10^3 | 4.4×10^5 | 297.3 | $< 1.4 \times 10^2$ | < 0.05 | ay,b,az |
| Reticulum III | 3.6×10^3 | $< 4.1 \times 10^6$ | < 247.3 | $< 9.9 \times 10^2$ | < 0.3 | u,x,b |
| Sagittarius | 4.3×10^7 | 1.9×10^8 | 8.8 | $< 1.2 \times 10^2$ | < 0.000003 | ba,b |
| Sculptor | 3.5×10^6 | 1.8×10^7 | 10.1 | $< 3.1 \times 10^3$ | < 0.0009 | f,b,p |
| Segue 1 | 5.7×10^2 | 2.5×10^5 | 887.9 | $< 1.1 \times 10^1$ | < 0.02 | f,bb,g |
| Segue 2 | 1.0×10^3 | $< 2.2 \times 10^5$ | < 487.9 | $< 3.0 \times 10^2$ | < 0.3 | bc,f,b |
| Sextans | 5.3×10^5 | 2.0×10^7 | 76.1 | $< 4.0 \times 10^2$ | < 0.0008 | f,b,p |
| Sextans II | 6.3×10^3 | | | | | l |
| SMC | 8.9×10^8 | | | 4.4×10^8 | 0.5 | ap,bd,ar |
| Triangulum II | 5.7×10^2 | $< 2.8 \times 10^5$ | < 1564579.6 | $< 1.1 \times 10^2$ | < 0.2 | w,be,b,aj |
| Tucana II | 5.4×10^3 | 2.2×10^6 | 817.9 | $< 2.0 \times 10^2$ | < 0.04 | bf,aw,b |
| Tucana III | 5.7×10^2 | $< 6.4 \times 10^4$ | < 7810.8 | $< 7.5 \times 10^1$ | < 0.1 | ay,b,bg |
| Tucana IV | 2.7×10^3 | 1.7×10^6 | 1259.8 | $< 2.3 \times 10^2$ | < 0.08 | b,ah |
| Tucana V | 4.7×10^2 | 3.1×10^4 | 133.6 | $< 3.6 \times 10^2$ | < 0.8 | b,ah |
| Ursa Major I | 1.9×10^4 | 6.9×10^6 | 705.3 | $< 6.9 \times 10^3$ | < 0.4 | f,b,o |

Table 4 *continued on next page*

Table 4 (*continued*)

| Name | M_\star | $M_{\text{dyn}}(r_{1/2})$ | $\Upsilon_{1/2}$ | M_{HI} | M_{HI}/M_\star | Ref |
|----------------|-------------------|---------------------------|------------------|---------------------|-------------------------|--------|
| | M_\odot | M_\odot | | M_\odot | | |
| Ursa Major II | 1.0×10^4 | 3.9×10^6 | 769.1 | $< 8.8 \times 10^1$ | < 0.009 | f,o,g |
| Ursa Major III | 2.3×10^1 | 2.4×10^4 | 2090.9 | | | bh |
| Ursa Minor | 5.3×10^5 | 1.6×10^7 | 61.1 | $< 4.7 \times 10^1$ | < 0.00009 | f,g,bi |
| Virgo I | 3.9×10^2 | | | $< 8.8 \times 10^2$ | < 2 | v,l,b |
| Virgo II | 7.5×10^2 | | | | | m |
| Virgo III | 2.0×10^3 | | | | | l |
| Willman 1 | 1.8×10^3 | 3.0×10^5 | 342.1 | $< 3.7 \times 10^3$ | < 2 | f,b,bj |

NOTE—Column descriptions: M_\star —Stellar mass from M_V assuming mass-to-light ratio of 2; $M_{\text{dyn}}(r_{1/2})$ —Dynamical mass within the spherically averaged half-light radius using the [Wolf et al. \(2010\)](#) estimator; $\Upsilon_{1/2}$ —Dynamical mass-to-light ratio at the half-light radius; M_{HI} —HI mass, in contrast to other columns the upper limits are a mix of 2,3,5 sigma measurements; M_{HI}/M_\star —Ratio of gas-to-stellar mass. Citations: (a) [Ji et al. \(2021\)](#) (b) [Putman et al. \(2021\)](#) (c) [Bruce et al. \(2023\)](#) (d) [Torrealba et al. \(2016b\)](#) (e) [Koposov et al. \(2011\)](#) (f) [Muñoz et al. \(2018\)](#) (g) [Spekkens et al. \(2014\)](#) (h) [Carlin et al. \(2009\)](#) (i) [Correnti et al. \(2009\)](#) (j) [Moskowitz & Walker \(2020\)](#) (k) [Homma et al. \(2019\)](#) (l) [Homma et al. \(2023\)](#) (m) [Cerny et al. \(2023a\)](#) (n) [Smith et al. \(2023\)](#) (o) [Simon & Geha \(2007\)](#) (p) [Walker et al. \(2009\)](#) (q) [Li et al. \(2018\)](#) (r) [Torrealba et al. \(2018\)](#) (s) [Heiger et al. \(2024\)](#) (t) [Mau et al. \(2020\)](#) (u) [Drlica-Wagner et al. \(2015\)](#) (v) [Homma et al. \(2018\)](#) (w) [Carlin et al. \(2017\)](#) (x) [Fritz et al. \(2019\)](#) (y) [Torrealba et al. \(2016a\)](#) (z) [Walker et al. \(2015b\)](#) (aa) [Longeard et al. \(2018\)](#) (ab) [Crnojević et al. \(2016a\)](#) (ac) [Li et al. \(2017\)](#) (ad) [Cerny et al. \(2021a\)](#) (ae) [Wang et al. \(2019a\)](#) (af) [Cantu et al. \(2021\)](#) (ag) [Chiti et al. \(2022\)](#) (ah) [Simon et al. \(2020\)](#) (ai) [Koposov et al. \(2015b\)](#) (aj) [Richstein et al. \(2024\)](#) (ak) [Kirby et al. \(2015\)](#) (al) [Koposov et al. \(2018\)](#) (am) [Mateo et al. \(2008\)](#) (an) [Spencer et al. \(2017\)](#) (ao) [Jenkins et al. \(2021\)](#) (ap) [Brüns et al. \(2005\)](#) (aq) [Choi et al. \(2018\)](#) (ar) [de Vaucouleurs et al. \(1991\)](#) (as) [van der Marel et al. \(2002\)](#) (at) [Kim et al. \(2016b\)](#) (au) [Richstein et al. \(2022\)](#) (av) [Cerny et al. \(2023b\)](#) (aw) [Koposov et al. \(2015a\)](#) (ax) [Drlica-Wagner et al. \(2016\)](#) (ay) [Mutlu-Pakdil et al. \(2018\)](#) (az) [Walker et al. \(2015a\)](#) (ba) [McConnachie \(2012\)](#) (bb) [Simon et al. \(2011\)](#) (bc) [Kirby et al. \(2013a\)](#) (bd) [Harris & Zaritsky \(2006\)](#) (be) [Kirby et al. \(2017a\)](#) (bf) [Chiti et al. \(2023\)](#) (bg) [Simon et al. \(2017\)](#) (bh) [Smith et al. \(2024\)](#) (bi) [Spencer et al. \(2018\)](#) (bj) [Willman et al. \(2011\)](#)

Table 5. Properties of ultra-faint compact stellar systems

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------------|-----------------------------------|------------|-------------|------|---|-----------|----------------|
| Koposov 1 | | 11:59:18.1 | +12:15:41.4 | MW | Koposov et al. (2007) | | |
| Koposov 2 | | 07:58:17.2 | +26:15:26.6 | MW | Koposov et al. (2007) | | |
| Segue 3 | | 21:21:31.0 | +19:07:03.7 | MW | Belokurov et al. (2010) | | Star Cluster |
| Muñoz 1 | | 15:01:47.8 | +66:58:05.5 | MW | Muñoz et al. (2012) | | |
| Balbinot 1 | | 22:10:43.0 | +14:56:25.1 | MW | Balbinot et al. (2013) | | |
| Laevens 1 | Crater I PSO J174.0675-10.8774 | 11:36:16.0 | -10:52:37.9 | MW | Belokurov et al. (2014) Laevens et al. (2014) | | Star Cluster |
| Kim 1 | | 22:11:41.1 | +07:01:37.6 | MW | Kim & Jerjen (2015b) | Cand. | |
| DES 1 | | 00:33:59.8 | -49:02:19.0 | MW | Luque et al. (2016) | | |
| Eridanus III | DES J0222.7-5217 | 02:22:46.8 | -52:17:01.7 | MW | Bechtol et al. (2015) Koposov et al. (2015a) | | |
| Kim 2 | Indus I DES J2108.8-5109 | 21:08:48.5 | -51:10:01.6 | MW | Kim et al. (2015b) Bechtol et al. (2015) Koposov et al. (2015a) | | Star Cluster |
| Laevens 3 | | 21:06:55.1 | +14:59:03.8 | MW | Laevens et al. (2015a) | | Star Cluster |
| Sagittarius II | Laevens 5 | 19:52:40.5 | -22:04:05.0 | MW | Laevens et al. (2015a) | | Star Cluster |
| Kim 3 | | 13:22:45.1 | -30:36:00.0 | MW | Kim et al. (2016a) | Cand. | |
| SMASH 1 | | 06:21:00.0 | -80:23:47.8 | MW | Martin et al. (2016a) | Cand. | |
| DES 3 | | 21:40:13.2 | -52:32:30.5 | MW | Luque et al. (2018) | Cand. | |
| DES 4 | | 05:28:22.8 | -61:43:25.3 | MW | Torrealba et al. (2019a) | Cand. | |
| DES 5 | | 05:10:00.8 | -62:34:49.7 | MW | Torrealba et al. (2019a) | Cand. | |
| Gaia 3 | | 06:20:14.1 | -73:24:52.0 | MW | Torrealba et al. (2019a) | Cand. | |
| PS1 1 | Prestgard 64 | 19:16:41.1 | -27:49:38.0 | MW | Torrealba et al. (2019a) | Cand. | |
| To 1 | | 03:44:19.8 | -69:25:21.2 | MW | Torrealba et al. (2019a) | Cand. | |
| BLISS 1 | BLISS J0321+0438 | 11:50:02.4 | -41:46:19.2 | MW | Mau et al. (2019) | | |
| HSC 1 | HSC J2217+0328 | 22:17:14.2 | +03:28:48.0 | MW | Homma et al. (2019) | Cand. | |
| DELVE 1 | | 16:30:54.0 | -00:58:19.2 | MW | Mau et al. (2020) | | |

Table 5 continued on next page

Table 5 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|---------|------------------|------------|-------------|------|---|-----------|----------------|
| | | | | | Drlica-Wagner et al. (2020) | | |
| DELVE 2 | DELVE J0155-6815 | 01:55:05.3 | -68:15:10.8 | MW | Cerny et al. (2021b) | | |
| YMCA-1 | | 07:23:21.1 | -64:49:54.8 | MW | Gatto et al. (2021) | | |
| DELVE 3 | DELVE J1921-6047 | 19:21:35.0 | -60:47:02.4 | MW | Cerny et al. (2023a) | | |
| DELVE 4 | DELVE J1523+2723 | 15:23:06.0 | +27:23:42.0 | MW | Cerny et al. (2023a) | | |
| DELVE 5 | DELVE J1448+1728 | 14:48:25.0 | +17:28:04.8 | MW | Cerny et al. (2023a) | | |
| DELVE 6 | | 02:12:16.8 | -66:03:21.6 | MW | Cerny et al. (2023c) | Cand. | |

NOTE— Column description: **Classification**—Star cluster/Globular cluster versus dwarf galaxy.

Table 6. Properties of ultra-faint compact stellar systems

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------------|----------|----------|------------------------|------------------------|-------------------------|----------------------|-------------------------|-----------------------|------|----------------------|-----|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Balbinot 1 | 332.6791 | 14.9403 | $0.60^{+0.16}_{-0.11}$ | | | $5.6^{+1.2}_{-1.3}$ | $17.52^{+0.07}_{-0.11}$ | $31.9^{+1.0}_{-1.6}$ | 16.3 | -1.2 ± 0.7 | a |
| BLISS 1 | 177.5100 | -41.7720 | $0.60^{+0.19}_{-0.14}$ | 0.06 | $101.0^{+74.0}_{-56.0}$ | $4.1^{+1.2}_{-1.1}$ | $16.87^{+0.20}_{-0.13}$ | $23.7^{+2.3}_{-1.4}$ | 16.9 | $0.0^{+1.7}_{-0.7}$ | b |
| Laevens 1 | 174.0668 | -10.8772 | 0.46 ± 0.01 | | | 19.5 ± 0.6 | 20.82 ± 0.04 | 145.9 ± 3.0 | 15.5 | -5.3 ± 0.1 | c |
| DELVE 1 | 247.7250 | -0.9720 | $0.97^{+0.27}_{-0.15}$ | $0.20^{+0.10}_{-0.20}$ | $21.0^{+26.0}_{-30.0}$ | $4.6^{+1.3}_{-1.1}$ | 16.39 ± 0.12 | $19.0^{+1.1}_{-1.0}$ | 16.2 | $-0.2^{+0.8}_{-0.6}$ | d |
| DELVE 2 | 28.7720 | -68.2530 | $1.04^{+0.19}_{-0.03}$ | $0.03^{+0.15}_{-0.03}$ | $74.0^{+84.0}_{-40.0}$ | $20.4^{+3.6}_{-3.3}$ | 19.26 ± 0.10 | $71.1^{+3.4}_{-3.2}$ | 17.2 | $-2.1^{+0.4}_{-0.5}$ | e |
| DELVE 3 | 290.3960 | -60.7840 | $0.40^{+0.12}_{-0.08}$ | < 0.40 | $87.0^{+30.0}_{-35.0}$ | 6.5 ± 1.7 | $18.73^{+0.09}_{-0.23}$ | $55.7^{+2.4}_{-5.6}$ | 17.4 | $-1.3^{+0.4}_{-0.6}$ | f |
| DELVE 4 | 230.7750 | 27.3950 | $0.49^{+0.16}_{-0.12}$ | 0.40 ± 0.20 | $152.0^{+14.0}_{-17.0}$ | $4.9^{+1.8}_{-1.6}$ | 18.28 ± 0.19 | $45.3^{+4.1}_{-3.8}$ | 18.1 | $-0.2^{+0.5}_{-0.8}$ | f |
| DELVE 5 | 222.1040 | 17.4680 | $0.68^{+0.24}_{-0.17}$ | $0.60^{+0.10}_{-0.20}$ | $77.0^{+10.0}_{-11.0}$ | $4.7^{+2.1}_{-1.8}$ | 17.97 ± 0.17 | $39.3^{+3.2}_{-3.0}$ | 18.4 | $0.4^{+0.4}_{-0.9}$ | f |
| DELVE 6 | 33.0700 | -66.0560 | $0.43^{+0.18}_{-0.12}$ | < 0.56 | $14.0^{+40.0}_{-63.0}$ | $10.1^{+3.5}_{-3.8}$ | $19.51^{+0.11}_{-0.16}$ | $79.8^{+4.1}_{-5.7}$ | 18.0 | $-1.5^{+0.4}_{-0.6}$ | g |
| DES 1 | 8.4992 | -49.0386 | $0.24^{+0.04}_{-0.06}$ | $0.41^{+0.03}_{-0.06}$ | 112.0 ± 3.0 | 4.1 ± 0.6 | 19.40 ± 0.12 | $75.9^{+4.3}_{-4.1}$ | 18.0 | -1.4 ± 0.5 | h |
| DES 3 | 325.0552 | -52.5418 | $0.30^{+0.05}_{-0.04}$ | $0.18^{+0.14}_{-0.12}$ | $-11.6^{+30.8}_{-32.2}$ | 5.9 ± 1.1 | $19.41^{+0.08}_{-0.11}$ | $76.2^{+2.9}_{-3.8}$ | 17.8 | $-1.6^{+0.5}_{-0.3}$ | i |
| DES 4 | 82.0950 | -61.7237 | 0.83 | | | 7.6 | 17.50 | 31.6 | 16.4 | -1.1 | j |
| DES 5 | 77.5035 | -62.5805 | 0.18 | | | 1.3 | 17.00 | 25.1 | 17.3 | 0.3 | j |
| Eridanus III | 35.6952 | -52.2838 | $0.32^{+0.04}_{-0.03}$ | $0.44^{+0.02}_{-0.03}$ | 109.0 ± 5.0 | $6.3^{+0.6}_{-0.7}$ | 19.80 ± 0.04 | 91.2 ± 1.7 | 17.7 | -2.1 ± 0.5 | h |
| Gaia 3 | 95.0586 | -73.4145 | 0.53 | | | 7.4 | 18.40 | 47.9 | 15.1 | -3.3 | j |
| HSC 1 | 334.3090 | 3.4800 | $0.44^{+0.07}_{-0.06}$ | $0.46^{+0.08}_{-0.10}$ | -12.0 ± 11.0 | $4.2^{+0.9}_{-0.8}$ | 18.30 ± 0.20 | $45.7^{+4.4}_{-4.0}$ | 18.1 | $-0.2^{+0.6}_{-0.8}$ | k |
| Kim 1 | 332.9214 | 7.0271 | 1.20 ± 0.10 | 0.42 ± 0.10 | -59.0 ± 6.0 | $5.2^{+0.8}_{-0.7}$ | $16.48^{+0.20}_{-0.10}$ | $19.8^{+1.9}_{-0.9}$ | 16.8 | 0.3 ± 0.5 | l |
| Kim 2 | 317.2020 | -51.1671 | 0.42 ± 0.02 | 0.12 ± 0.10 | 35.0 ± 5.0 | 11.9 ± 1.0 | 20.10 ± 0.10 | $104.7^{+4.9}_{-4.7}$ | 18.6 | -1.5 ± 0.5 | m |
| Kim 3 | 200.6880 | -30.6000 | $0.52^{+0.24}_{-0.11}$ | $0.17^{+0.26}_{-0.17}$ | 4.0 ± 24.0 | 2.0 ± 0.7 | $15.90^{+0.11}_{-0.04}$ | $15.1^{+0.8}_{-0.3}$ | 16.6 | 0.7 ± 0.3 | n |
| Koposov 1 | 179.8253 | 12.2615 | 0.62 ± 0.18 | 0.45 ± 0.15 | 7.0 ± 21.0 | $6.3^{+2.4}_{-2.2}$ | 18.42 | 48.3 | 17.4 | -1.0 ± 0.7 | o |
| Koposov 2 | 119.5715 | 26.2574 | 0.44 ± 0.07 | 0.43 ± 0.14 | -35.0 ± 18.0 | 3.3 ± 0.7 | 17.70 | 34.7 | 16.8 | -0.9 ± 0.8 | o |
| Laevens 3 | 316.7294 | 14.9844 | 0.64 ± 0.05 | $0.11^{+0.09}_{-0.11}$ | $72.0^{+24.0}_{-17.0}$ | $10.5^{+1.1}_{-1.0}$ | $18.94^{+0.05}_{-0.02}$ | $61.4^{+1.4}_{-0.6}$ | 16.1 | $-2.8^{+0.2}_{-0.3}$ | p |
| Muñoz 1 | 225.4490 | 66.9682 | 0.49 ± 0.15 | 0.34 ± 0.17 | 139.0 ± 46.0 | $5.0^{+1.8}_{-1.7}$ | $18.27^{+0.23}_{-0.26}$ | $45.1^{+5.0}_{-5.1}$ | 17.9 | -0.4 ± 1.0 | q,o |
| PS1 1 | 289.1712 | -27.8272 | 0.55 | | | 4.8 | 17.40 | 30.2 | 15.5 | -1.9 | j |
| Sagittarius II | 298.1687 | -22.0681 | $1.85^{+0.08}_{-0.07}$ | < 0.08 | $96.0^{+50.0}_{-32.0}$ | $37.1^{+3.8}_{-3.5}$ | 19.20 ± 0.20 | $69.2^{+6.7}_{-6.1}$ | 13.8 | $-5.4^{+0.1}_{-0.0}$ | r,s |
| Segue 3 | 320.3793 | 19.1177 | 0.43 ± 0.08 | 0.23 ± 0.11 | 33.0 ± 36.0 | 1.8 ± 0.4 | 16.14 ± 0.09 | 16.9 ± 0.7 | 16.1 | $-0.1^{+0.1}_{-0.8}$ | t |
| SMASH 1 | 95.2496 | -80.3966 | $0.57^{+0.32}_{-0.18}$ | $0.62^{+0.17}_{-0.21}$ | -24.0 ± 16.0 | $5.6^{+3.2}_{-2.9}$ | 18.80 | 57.5 | 17.8 | -1.0 ± 0.9 | u |

Table 6 continued on next page

Table 6 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|--------|----------|----------|-----------------|------------|----------|---------------------|-------------------------|----------------------|------|----------------|-----|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| To 1 | 56.0825 | -69.4226 | 0.27 | | | 3.4 | 18.20 | 43.7 | 16.6 | -1.6 | j |
| YMCA-1 | 110.8378 | -64.8319 | 0.22 ± 0.03 | | | $3.5^{+0.6}_{-0.5}$ | $18.72^{+0.15}_{-0.17}$ | $55.5^{+4.0}_{-4.2}$ | 18.2 | -0.5 ± 0.6 | v |

NOTE— Citations: (a) Balbinot et al. (2013) (b) Mau et al. (2019) (c) Weisz et al. (2016) (d) Mau et al. (2020) (e) Cerny et al. (2021b) (f) Cerny et al. (2023a) (g) Cerny et al. (2023c) (h) Conn et al. (2018) (i) Luque et al. (2018) (j) Torrealba et al. (2019a) (k) Homma et al. (2019) (l) Kim & Jerjen (2015b) (m) Kim et al. (2015b) (n) Kim et al. (2016a) (o) Muñoz et al. (2018) (p) Longeard et al. (2019) (q) Muñoz et al. (2012) (r) Mutlu-Pakdil et al. (2018) (s) Richstein et al. (2024) (t) Fadely et al. (2011) (u) Martin et al. (2016a) (v) Gatto et al. (2022)

Table 7. Properties of ultra-faint compact stellar systems

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------------|----------|----------|--|--|--------------|---------------------------------|--------------------------------------|--|--|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| Balbinot 1 | 75.1723 | -32.6443 | | | | | 11.7 ^{+1.4} _{-0.8} | | | a |
| BLISS 1 | 290.8313 | 19.6526 | | | | | | -2.340 ± 0.042 | 0.138 ± 0.038 | b |
| Laevens 1 | 274.8070 | 47.8474 | 148.2 ± 1.1 | 2.04 ^{+2.19} _{-1.06} | -1.68 | < 0.53 | 7.5 ± 0.4 | -0.040 ± 0.120 | 0.120 ± 0.100 | c,d,e,f |
| DELVE 1 | 14.1876 | 30.2900 | | | | | 12.5 ^{+1.0} _{-0.7} | 0.040 ± 0.070 | -1.540 ± 0.050 | c,g |
| DELVE 2 | 294.2362 | -47.7863 | | | | | | 0.920 ^{+0.120} _{-0.110} | -0.970 ^{+0.090} _{-0.080} | c,h |
| DELVE 3 | 335.8458 | -27.0619 | | | | | | -0.330 ^{+0.310} _{-0.340} | -0.800 ^{+0.350} _{-0.320} | i |
| DELVE 4 | 42.3105 | 56.4285 | | | | | 13.5 | 0.420 ^{+0.080} _{-0.090} | -0.750 ± 0.110 | i |
| DELVE 5 | 19.3752 | 61.3561 | | | | | 10.0 | -1.820 ^{+0.130} _{-0.120} | -0.930 ± 0.120 | i |
| DELVE 6 | 290.5702 | -49.0866 | | | | | | 0.930 ± 0.390 | -1.280 ± 0.380 | j |
| DES 1 | 310.5222 | -67.8318 | | | | | 11.2 ^{+1.0} _{-0.9} | | | k |
| DES 3 | 343.8295 | -46.5116 | | | | | 9.8 ± 1.1 | | | l |
| DES 4 | 270.8713 | -33.4387 | | | | | | | | |
| DES 5 | 272.2040 | -35.4695 | | | | | | | | |
| Eridanus III | 274.9547 | -59.5966 | | | | | 12.5 ^{+0.5} _{-0.7} | 1.390 ± 0.130 | -0.640 ± 0.140 | c,k |
| Gaia 3 | 284.2274 | -28.1313 | | | | | | | | |
| HSC 1 | 66.3192 | -41.8407 | | | | | | | | |
| Kim 1 | 68.5158 | -38.4241 | | | | | 12.0 ^{+1.5} _{-3.0} | | | m |
| Kim 2 | 347.1549 | -42.0693 | | | | | 11.5 ^{+2.0} _{-3.5} | | | n |
| Kim 3 | 310.8601 | 31.7892 | | | | | 9.5 ^{+3.0} _{-1.7} | -0.849 ± 0.178 | 3.396 ± 0.140 | o,b |
| Koposov 1 | 260.9699 | 70.7551 | | | | | | -1.513 ± 0.135 | -0.814 ± 0.105 | b |
| Koposov 2 | 195.1097 | 25.5468 | | | | | | -0.601 ± 0.189 | -0.025 ± 0.189 | b |
| Laevens 3 | 63.5981 | -21.1761 | -70.2 ± 0.5 | | -1.80 ± 0.10 | | 13.0 ± 1.0 | 0.172 ± 0.101 | -0.666 ± 0.080 | p,b |
| Muñoz 1 | 105.4414 | 45.4806 | -137.0 ± 4.0 | < 4.70 | -1.46 ± 0.32 | | | -0.100 ± 0.203 | -0.020 ± 0.207 | q,b |
| PS1 1 | 10.0421 | -17.4207 | | | | | | | | |
| Sagittarius II | 18.9355 | -22.8975 | -177.2 ^{+0.5} _{-0.6} | 1.70 ± 0.50 | -2.23 ± 0.07 | | | -0.769 ± 0.035 | -0.903 ^{+0.022} _{-0.023} | r,s |
| Segue 3 | 69.3997 | -21.2723 | -167.0 | 1.20 ± 2.60 | | | 12.0 ^{+1.5} _{-0.4} | -0.981 ± 0.121 | -1.667 ± 0.081 | t,b |
| SMASH 1 | 292.1393 | -27.9860 | | | | | | | | |

Table 7 continued on next page

Table 7 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|--------|----------|----------|--------------------|-----------------------|--------|---------------------------------|--------------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| To 1 | 284.3606 | -40.9069 | | | | | | | | |
| YMCA-1 | 276.0948 | -21.1101 | | | | | 11.7 ^{+1.7} _{-1.3} | 1.044 ± 0.402 | 1.107 ± 0.209 | u,v |

NOTE— Citations: (a) Balbinot et al. (2013) (b) Vasiliev & Baumgardt (2021) (c) Battaglia et al. (2022) (d) Kirby et al. (2015) (e) Voggel et al. (2016) (f) Weisz et al. (2016) (g) Mau et al. (2020) (h) Cerny et al. (2021b) (i) Cerny et al. (2023a) (j) Cerny et al. (2023c) (k) Conn et al. (2018) (l) Luque et al. (2018) (m) Kim & Jerjen (2015b) (n) Kim et al. (2015b) (o) Kim et al. (2016a) (p) Longeard et al. (2019) (q) Muñoz et al. (2012) (r) Longeard et al. (2021) (s) Pace et al. (2022) (t) Fadely et al. (2011) (u) Gatto et al. (2022) (v) Piatti & Lucchini (2022)

Table 8. Properties of M31 dwarf galaxies

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|---------------|---|------------|-------------|------|---|-----------|----------------|
| M 32 | UGC 452 NGC 221 PGC002555 | 00:42:41.8 | +40:51:54.4 | M 31 | | | Dwarf Galaxy |
| NGC 185 | UGC 396 | 00:38:58.0 | +48:20:10.0 | M 31 | Herschel (1789) Baade (1944) | | Dwarf Galaxy |
| NGC 205 | M110 UGC 426 | 00:40:22.5 | +41:41:11.0 | M 31 | | | Dwarf Galaxy |
| NGC 147 | UGC 326 DDO 3 PGC 2004 LEDA 2004 Caldwell 17 | 00:33:11.6 | +48:30:28.0 | M 31 | Herschel (1833) Baade (1944) | | Dwarf Galaxy |
| IC 10 | UGC 192 2MASX J00201733+5918136 MCG +10-01-001 PGC001305 | 00:20:24.5 | +59:17:30.0 | M 31 | Swift (1888) | | Dwarf Galaxy |
| Andromeda I | KK 8 | 00:45:39.7 | +38:02:15.0 | M 31 | van den Bergh (1972) | | Dwarf Galaxy |
| Andromeda II | KK 12 | 01:16:26.8 | +33:26:07.0 | M 31 | van den Bergh (1972) | | Dwarf Galaxy |
| Andromeda III | KK 5 | 00:35:30.9 | +36:29:56.0 | M 31 | van den Bergh (1972) | | Dwarf Galaxy |
| LGS 3 | Local Group Suspect 3 Pisces (I) | 01:03:55.0 | +21:53:06.0 | M 31 | Karachentseva (1976) Kowal et al. (1978) | | Dwarf Galaxy |
| Andromeda V | | 01:10:17.5 | +47:37:42.0 | M 31 | Armandroff et al. (1998) | | Dwarf Galaxy |
| Andromeda VI | Pegasus dSph | 23:51:46.9 | +24:34:57.0 | M 31 | Karachentsev & Karachentseva (1999) Armandroff et al. (1999) | | Dwarf Galaxy |
| Andromeda VII | Casseopia dSph KKH96 PGC2807155 | 23:26:33.5 | +50:40:48.0 | M 31 | Karachentsev & Karachentseva (1999) | | Dwarf Galaxy |

Table 8 continued on next page

Table 8 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------------|------------------|------------|-------------|------|--|-----------|----------------|
| Andromeda IX | | 00:52:53.4 | +43:11:57.0 | M 31 | Zucker et al. (2004) | | Dwarf Galaxy |
| Andromeda X | | 01:06:35.4 | +44:48:27.0 | M 31 | Zucker et al. (2007) | | Dwarf Galaxy |
| Andromeda XI | | 00:46:19.7 | +33:48:10.0 | M 31 | Martin et al. (2006) | | Dwarf Galaxy |
| Andromeda XII | | 00:47:28.3 | +34:22:38.0 | M 31 | Martin et al. (2006) | | Dwarf Galaxy |
| Andromeda XIII | Pisces III | 00:51:51.0 | +33:00:16.0 | M 31 | Martin et al. (2006) | | Dwarf Galaxy |
| Andromeda XIV | | 00:51:35.0 | +29:41:23.0 | M 31 | Majewski et al. (2007) | | Dwarf Galaxy |
| Andromeda XV | | 01:14:18.3 | +38:07:11.0 | M 31 | Ibata et al. (2007) | | Dwarf Galaxy |
| Andromeda XVI | Pisces V | 00:59:30.3 | +32:22:34.0 | M 31 | Ibata et al. (2007) | | Dwarf Galaxy |
| Andromeda XVII | | 00:37:06.3 | +44:19:23.0 | M 31 | Irwin et al. (2008) | | Dwarf Galaxy |
| Andromeda XVIII | | 00:02:14.5 | +45:05:15.8 | M 31 | McConnachie et al. (2008) | | Dwarf Galaxy |
| Andromeda XIX | | 00:19:34.5 | +35:02:41.0 | M 31 | McConnachie et al. (2008) | | Dwarf Galaxy |
| Andromeda XX | | 00:07:30.6 | +35:07:37.0 | M 31 | McConnachie et al. (2008) | | Dwarf Galaxy |
| Andromeda XXI | | 23:54:47.9 | +42:28:14.0 | M 31 | Martin et al. (2009) | | Dwarf Galaxy |
| Andromeda XXII | Triangulum I | 01:27:40.4 | +28:05:25.0 | M 31 | Martin et al. (2009) | | Dwarf Galaxy |
| Andromeda XXIII | | 01:29:21.0 | +38:43:26.0 | M 31 | Richardson et al. (2011) | | Dwarf Galaxy |
| Andromeda XXIV | | 01:18:32.7 | +46:22:13.0 | M 31 | Richardson et al. (2011) | | Dwarf Galaxy |
| Andromeda XXV | | 00:30:09.9 | +46:51:41.0 | M 31 | Richardson et al. (2011) | | Dwarf Galaxy |
| Andromeda XXVI | | 00:23:46.3 | +47:54:43.0 | M 31 | Richardson et al. (2011) | | Dwarf Galaxy |
| Andromeda XXVII | | 00:37:27.1 | +45:23:13.0 | M 31 | Richardson et al. (2011) | | Dwarf Galaxy |
| Andromeda XXVIII | | 22:32:41.2 | +31:12:53.8 | M 31 | Slater et al. (2011) | | Dwarf Galaxy |
| Andromeda XXIX | | 23:58:55.6 | +30:45:20.2 | M 31 | Bell et al. (2011) | | Dwarf Galaxy |
| Cassiopeia II | Andromeda XXX | 00:36:34.6 | +49:38:49.0 | M 31 | | | Dwarf Galaxy |
| Cassiopeia III | Andromeda XXXII | 00:35:57.4 | +51:33:36.2 | M 31 | Martin et al. (2013a) | | Dwarf Galaxy |
| Lacerta I | Andromeda XXXI | 22:58:12.2 | +41:18:22.3 | M 31 | Martin et al. (2013a) | | Dwarf Galaxy |
| Perseus I | Andromeda XXXIII | 03:01:23.4 | +40:59:05.4 | M 31 | Martin et al. (2013b) | | Dwarf Galaxy |
| Pegasus V | Andromeda XXXIV | 23:18:27.8 | +33:21:32.0 | M 31 | Collins et al. (2022) | | Dwarf Galaxy |
| Pisces VII | Triangulum III | 01:21:40.6 | +26:23:27.6 | M 33 | Martínez-Delgado et al. (2022) | | Dwarf Galaxy |

NOTE—

Table 9. Properties of M31 dwarf galaxies

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------------------|----------|---------|-------------------------|------------------------|------------------------|----------------------------|-------------------------|--------------------------|------|----------------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Andromeda I | 11.4154 | 38.0375 | 3.90 ± 0.10 | 0.28 ± 0.03 | 30.0 ± 4.0 | $745.5^{+28.1}_{-30.2}$ | 24.45 ± 0.05 | $776.2^{+18.1}_{-17.7}$ | 13.1 | -11.3 ± 0.2 | a,b |
| Andromeda II | 19.1117 | 33.4353 | 5.30 ± 0.10 | 0.16 ± 0.02 | 31.0 ± 5.0 | $942.8^{+31.3}_{-29.9}$ | 24.12 ± 0.05 | $666.8^{+15.5}_{-15.2}$ | 12.4 | -11.7 ± 0.2 | a,b |
| Andromeda III | 8.8788 | 36.4989 | 2.00 ± 0.20 | 0.59 ± 0.04 | 140.0 ± 3.0 | $266.1^{+31.4}_{-28.8}$ | 24.29 ± 0.05 | $721.1^{+16.8}_{-16.4}$ | 14.8 | $-9.5^{+0.3}_{-0.2}$ | a,b |
| Andromeda V | 17.5729 | 47.6283 | $1.60^{+0.20}_{-0.10}$ | $0.26^{+0.09}_{-0.07}$ | 54.0 ± 10.0 | $306.3^{+30.9}_{-32.8}$ | 24.40 ± 0.06 | $758.6^{+21.3}_{-20.7}$ | 15.1 | -9.3 ± 0.2 | a,b |
| Andromeda VI | 357.9454 | 24.5825 | 2.15 ± 0.08 | 0.41 ± 0.03 | 163.0 ± 3.0 | $398.3^{+24.1}_{-21.2}$ | 24.60 ± 0.06 | $831.8^{+23.3}_{-22.7}$ | 13.3 | -11.3 ± 0.2 | c,b |
| Andromeda VII | 351.6396 | 50.6800 | 3.47 ± 0.07 | 0.13 ± 0.04 | 94.0 ± 8.0 | $774.5^{+33.4}_{-31.7}$ | 24.58 ± 0.06 | $824.1^{+23.1}_{-22.5}$ | 11.8 | -12.8 ± 0.3 | c,b |
| Andromeda IX | 13.2225 | 43.1992 | $2.00^{+0.30}_{-0.20}$ | $0.00^{+0.16}_{-0.00}$ | 41.0 ± 65.0 | $390.2^{+56.8}_{-46.3}$ | 24.23 ± 0.06 | $701.5^{+19.7}_{-19.1}$ | 15.6 | -8.6 ± 0.3 | a,b |
| Andromeda X | 16.6475 | 44.8075 | $1.10^{+0.40}_{-0.20}$ | $0.10^{+0.34}_{-0.10}$ | $30.0^{+20.0}_{-12.0}$ | $172.3^{+57.7}_{-52.9}$ | 24.00 ± 0.06 | $631.0^{+17.7}_{-17.2}$ | 16.7 | -7.3 ± 0.3 | a,b |
| Andromeda XI | 11.5821 | 33.8028 | 0.60 ± 0.20 | $0.19^{+0.28}_{-0.19}$ | 54.0 ± 30.0 | $110.4^{+41.6}_{-42.4}$ | 24.38 ± 0.07 | $751.6^{+24.6}_{-23.8}$ | 18.0 | -6.4 ± 0.4 | a,b |
| Andromeda XII | 11.8679 | 34.3772 | $1.80^{+1.20}_{-0.70}$ | $0.61^{+0.16}_{-0.48}$ | $16.0^{+12.0}_{-36.0}$ | $212.3^{+181.2}_{-129.4}$ | $24.28^{+0.08}_{-0.07}$ | $717.8^{+26.9}_{-22.8}$ | 17.7 | -6.6 ± 0.5 | a,b |
| Andromeda XIII | 12.9625 | 33.0044 | $0.80^{+0.40}_{-0.30}$ | $0.61^{+0.14}_{-0.20}$ | $-20.0^{+9.0}_{-12.0}$ | $111.8^{+67.7}_{-54.9}$ | 24.57 ± 0.07 | $820.4^{+26.9}_{-26.0}$ | 17.8 | -6.8 ± 0.4 | a,b |
| Andromeda XIV | 12.8958 | 29.6897 | 1.50 ± 0.20 | $0.17^{+0.16}_{-0.17}$ | -4.0 ± 14.0 | $297.3^{+48.2}_{-51.5}$ | 24.44 ± 0.06 | $772.7^{+21.6}_{-21.1}$ | 15.8 | -8.6 ± 0.3 | a,b |
| Andromeda XV | 18.5763 | 38.1197 | 1.30 ± 0.10 | 0.24 ± 0.10 | 38.0 ± 15.0 | $245.3^{+26.7}_{-27.2}$ | 24.37 ± 0.05 | $748.2^{+17.4}_{-17.0}$ | 16.0 | -8.4 ± 0.3 | a,b |
| Andromeda XVI | 14.8763 | 32.3761 | 1.00 ± 0.10 | 0.29 ± 0.08 | 98.0 ± 9.0 | $126.4^{+15.1}_{-14.5}$ | 23.57 ± 0.08 | $517.6^{+19.4}_{-18.7}$ | 16.1 | -7.5 ± 0.3 | a,d |
| Andromeda XVII | 9.2762 | 44.3231 | 1.40 ± 0.30 | 0.50 ± 0.10 | 110.0 ± 9.0 | $216.2^{+53.3}_{-53.8}$ | 24.40 ± 0.07 | $758.6^{+24.9}_{-24.1}$ | 16.6 | -7.8 ± 0.3 | a,b |
| Andromeda XVIII | 0.5603 | 45.0877 | 0.92 ± 0.05 | 0.44 ± 0.12 | 75.1 ± 4.5 | $233.3^{+28.7}_{-30.0}$ | 25.36 ± 0.08 | $1180.3^{+44.3}_{-42.7}$ | 16.2 | -9.2 ± 0.4 | e,a |
| Andromeda XIX | 4.8937 | 35.0447 | $14.20^{+3.40}_{-1.90}$ | $0.58^{+0.05}_{-0.10}$ | 34.0 ± 5.0 | $2139.7^{+453.0}_{-450.2}$ | $24.55^{+0.09}_{-0.08}$ | $812.8^{+34.4}_{-29.4}$ | 14.5 | -10.1 ± 0.3 | a,b |
| Andromeda XX | 1.8775 | 35.1269 | $0.40^{+0.20}_{-0.10}$ | $0.11^{+0.41}_{-0.11}$ | $90.0^{+20.0}_{-44.0}$ | $73.6^{+32.6}_{-27.3}$ | 24.35 ± 0.08 | $741.3^{+27.8}_{-26.8}$ | 18.0 | -6.4 ± 0.4 | a,b |
| Andromeda XXI | 358.6996 | 42.4706 | $4.10^{+0.80}_{-0.40}$ | $0.36^{+0.10}_{-0.13}$ | 139.0 ± 13.0 | $733.6^{+134.7}_{-135.9}$ | $24.44^{+0.06}_{-0.07}$ | $772.7^{+21.6}_{-24.5}$ | 15.5 | -8.9 ± 0.3 | a,b |
| Andromeda XXII | 21.9183 | 28.0903 | $0.90^{+0.30}_{-0.20}$ | $0.61^{+0.10}_{-0.14}$ | 114.0 ± 10.0 | $120.7^{+41.0}_{-35.4}$ | 24.39 ± 0.07 | $755.1^{+24.7}_{-24.0}$ | 18.0 | -6.4 ± 0.4 | a,b |
| Andromeda XXIII | 22.3375 | 38.7239 | 5.40 ± 0.40 | $0.41^{+0.05}_{-0.06}$ | 138.0 ± 5.0 | $894.5^{+85.8}_{-81.1}$ | 24.36 ± 0.07 | $744.7^{+24.4}_{-23.6}$ | 14.6 | -9.8 ± 0.2 | a,b |
| Andromeda XXIV | 19.6363 | 46.3703 | $2.60^{+1.00}_{-0.50}$ | $0.10^{+0.31}_{-0.10}$ | 90.0 ± 34.0 | $396.1^{+141.4}_{-114.5}$ | 23.92 ± 0.07 | $608.1^{+19.9}_{-19.3}$ | 16.3 | -7.6 ± 0.3 | a,b |
| Andromeda XXV | 7.5412 | 46.8614 | $2.70^{+0.40}_{-0.20}$ | $0.03^{+0.16}_{-0.03}$ | -16.0 ± 30.0 | $568.5^{+69.0}_{-66.7}$ | $24.38^{+0.07}_{-0.06}$ | $751.6^{+24.6}_{-20.5}$ | 15.3 | $-9.1^{+0.3}_{-0.2}$ | a,b |
| Andromeda XXVI | 5.9429 | 47.9119 | $1.00^{+0.60}_{-0.50}$ | $0.35^{+0.33}_{-0.35}$ | 50.0 ± 90.0 | $166.3^{+108.7}_{-98.1}$ | $24.48^{+0.06}_{-0.07}$ | $787.0^{+22.1}_{-25.0}$ | 18.5 | $-6.0^{+0.7}_{-0.5}$ | a,b |
| Andromeda XXVII | 9.3629 | 45.3869 | 1.80 ± 0.30 | 0.40 ± 0.20 | 150.0 ± 10.0 | $328.1^{+80.6}_{-86.6}$ | 24.59 ± 0.12 | $827.9^{+47.0}_{-44.5}$ | 16.7 | -7.9 ± 0.5 | f |
| Andromeda XXVIII | 338.1717 | 31.2149 | 1.38 ± 0.06 | 0.42 ± 0.06 | 35.0 ± 1.0 | $227.2^{+16.3}_{-16.2}$ | 24.36 ± 0.05 | $744.7^{+17.3}_{-17.0}$ | 15.8 | -8.5 ± 0.4 | e,b,g |
| Andromeda XXIX | 359.7317 | 30.7556 | 1.39 ± 0.08 | 0.29 ± 0.04 | 55.0 ± 4.0 | $241.2^{+15.0}_{-16.2}$ | 24.26 ± 0.06 | $711.2^{+19.9}_{-19.4}$ | 16.1 | -8.2 ± 0.3 | b,g |

Table 9 continued on next page

Table 9 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------------|----------|---------|------------------------|------------------------|-------------------------|-------------------------|------------------|-------------------------|------|----------------------|-----|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Cassiopeia II | 9.1442 | 49.6469 | 1.50 ± 0.20 | $0.43^{+0.10}_{-0.12}$ | 110.0 ± 9.0 | $182.6^{+32.9}_{-28.2}$ | 23.74 ± 0.06 | $559.8^{+15.7}_{-15.3}$ | 16.0 | $-7.7^{+0.3}_{-0.2}$ | a,b |
| Cassiopeia III | 8.9893 | 51.5601 | 4.73 ± 0.09 | 0.30 ± 0.01 | 91.0 ± 2.0 | $923.4^{+33.2}_{-31.6}$ | 24.52 ± 0.06 | $801.7^{+22.5}_{-21.8}$ | 12.1 | -12.4 ± 0.2 | h,b |
| IC 10 | 5.1021 | 59.2917 | 2.65 | 0.19 ± 0.02 | | 533.6 | 24.43 ± 0.03 | $769.1^{+10.7}_{-10.6}$ | 9.5 | -14.9 ± 0.2 | i,j |
| Lacerta I | 344.5509 | 41.3062 | 3.13 ± 0.05 | 0.41 ± 0.01 | -64.0 ± 1.0 | $520.5^{+15.7}_{-14.6}$ | 24.36 ± 0.05 | $744.7^{+17.3}_{-17.0}$ | 13.2 | -11.2 ± 0.3 | h,b |
| LGS 3 | 15.9792 | 21.8850 | 2.10 ± 0.20 | 0.20 | 0.0 | $368.3^{+36.4}_{-34.1}$ | 23.91 ± 0.05 | $605.3^{+14.1}_{-13.8}$ | 14.3 | -9.6 ± 0.1 | i,b |
| M 32 | 10.6741 | 40.8651 | 0.47 ± 0.05 | 0.25 ± 0.02 | 159.0 ± 2.0 | $91.1^{+9.7}_{-9.6}$ | 24.44 ± 0.06 | $772.7^{+21.6}_{-21.1}$ | 8.1 | -16.3 ± 0.1 | i,b |
| NGC 147 | 8.2983 | 48.5078 | 3.17 | 0.41 ± 0.02 | 25.0 ± 3.0 | 520.2 | 24.33 ± 0.06 | $734.5^{+20.6}_{-20.0}$ | 9.5 | -14.8 ± 0.1 | i,b |
| NGC 185 | 9.7417 | 48.3361 | 2.55 | 0.15 ± 0.10 | 35.0 ± 3.0 | 443.6 | 24.06 ± 0.06 | $648.6^{+18.2}_{-17.7}$ | 9.2 | -14.9 ± 0.1 | i,b |
| NGC 205 | 10.0938 | 41.6864 | 2.46 ± 0.10 | 0.43 ± 0.10 | 28.0 ± 5.0 | $450.8^{+44.1}_{-45.6}$ | 24.61 ± 0.06 | $835.6^{+23.4}_{-22.8}$ | 8.1 | -16.5 ± 0.1 | i,b |
| Pegasus V | 349.6158 | 33.3589 | $0.40^{+0.20}_{-0.10}$ | 0.01 ± 0.01 | $96.0^{+47.0}_{-57.0}$ | $82.1^{+31.4}_{-30.3}$ | 24.20 ± 0.10 | $691.8^{+30.9}_{-31.1}$ | 17.9 | -6.3 ± 0.2 | k |
| Perseus I | 45.3477 | 40.9848 | $1.40^{+0.07}_{-0.06}$ | 0.09 ± 0.06 | $-58.0^{+25.0}_{-21.0}$ | $272.1^{+18.4}_{-16.9}$ | 24.24 ± 0.06 | $704.7^{+19.7}_{-19.2}$ | 15.4 | -8.9 ± 0.3 | h,b |
| Pisces VII | 20.4190 | 26.3910 | $0.67^{+0.20}_{-0.10}$ | < 0.10 | $96.0^{+32.0}_{-36.0}$ | $174.3^{+44.9}_{-41.1}$ | 24.80 ± 0.20 | $912.0^{+88.0}_{-80.2}$ | 18.8 | -6.0 ± 0.3 | l |

NOTE— Citations: (a) [Martin et al. \(2016b\)](#) (b) [Savino et al. \(2022\)](#) (c) [McConnachie & Irwin \(2006\)](#) (d) [Martínez-Vázquez et al. \(2017\)](#) (e) [Higgs et al. \(2021\)](#) (f) [Richardson et al. \(2011\)](#) (g) [Slater et al. \(2015\)](#) (h) [Rhode et al. \(2023\)](#) (i) [McConnachie \(2012\)](#) (j) [McQuinn et al. \(2017\)](#) (k) [Collins et al. \(2022\)](#) (l) [Collins et al. \(2024\)](#)

Table 10. Properties of M31 dwarf galaxies

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|------------------|----------|----------|------------------------|-------------------------|------------------|---------------------------------|----------------------|----------------------|-------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Andromeda I | 121.6789 | -24.8202 | -376.3 ± 2.2 | 10.20 ± 1.90 | -1.51 ± 0.02 | 0.34 | | | a,b |
| Andromeda II | 128.9048 | -29.1463 | -192.4 ± 0.5 | 7.80 ± 1.10 | -1.47 ± 0.01 | | | | c,d |
| Andromeda III | 119.3642 | -26.2625 | -344.3 ± 1.7 | 9.30 ± 1.40 | -1.75 ± 0.03 | 0.43 | | | a,b |
| Andromeda V | 126.2205 | -15.1230 | -397.3 ± 1.5 | 10.50 ± 1.10 | -1.84 ± 0.01 | 0.41 | | | a,b |
| Andromeda VI | 106.0443 | -36.3252 | -339.8 ± 1.9 | $12.40^{+1.50}_{-1.30}$ | | | | | e |
| Andromeda VII | 109.4665 | -9.9593 | -307.2 ± 1.3 | 13.00 ± 1.00 | -1.37 ± 0.01 | 0.36 | 0.060 ± 0.037 | -0.004 ± 0.034 | a,b,f |
| Andromeda IX | 123.2130 | -19.6718 | -209.4 ± 2.5 | 10.90 ± 2.00 | -2.03 ± 0.00 | | | | b,d |
| Andromeda X | 125.7565 | -17.9811 | -164.1 ± 1.7 | 6.40 ± 1.40 | -2.27 ± 0.03 | 0.47 | | | a,b |
| Andromeda XI | 121.7176 | -29.0569 | $-427.5^{+3.4}_{-3.5}$ | $7.60^{+4.00}_{-2.80}$ | | | | | e |
| Andromeda XII | 122.0008 | -28.4874 | -557.1 ± 1.7 | < 4.00 | | | | | e |
| Andromeda XIII | 123.0316 | -29.8672 | -185.4 ± 2.4 | 5.80 ± 2.00 | | | | | b |
| Andromeda XIV | 122.9697 | -33.1820 | -480.6 ± 1.2 | 5.30 ± 1.00 | -2.23 ± 0.01 | | | | b,d |
| Andromeda XV | 127.8737 | -24.5325 | -323.0 ± 1.4 | 4.00 ± 1.40 | -1.43 ± 0.42 | | | | b,d |
| Andromeda XVI | 124.9080 | -30.4647 | -367.3 ± 2.8 | 3.80 ± 2.90 | | | | | b |
| Andromeda XVII | 120.2299 | -18.4735 | $-251.6^{+1.8}_{-2.0}$ | $2.90^{+2.20}_{-1.90}$ | | | | | e |
| Andromeda XVIII | 113.8876 | -16.9183 | -337.2 ± 1.4 | $9.90^{+1.10}_{-1.00}$ | -1.49 | 0.36 | | | g |
| Andromeda XIX | 115.5917 | -27.3725 | -109.0 ± 1.6 | $7.80^{+1.70}_{-1.50}$ | -2.07 ± 0.02 | | | | h |
| Andromeda XX | 112.8715 | -26.8852 | $-456.2^{+3.1}_{-3.6}$ | $7.10^{+3.90}_{-2.50}$ | | | | | e |
| Andromeda XXI | 111.9175 | -19.1866 | -363.4 ± 1.0 | $6.10^{+1.00}_{-0.90}$ | -1.70 ± 0.10 | | | | i |
| Andromeda XXII | 132.5888 | -34.1011 | -129.8 ± 2.0 | $2.80^{+1.90}_{-1.40}$ | | | | | e |
| Andromeda XXIII | 130.9882 | -23.5541 | -237.7 ± 1.2 | 7.10 ± 1.00 | | | | | e |
| Andromeda XXIV | 127.7968 | -16.2453 | -128.2 ± 5.2 | < 7.30 | | | | | e |
| Andromeda XXV | 119.1544 | -15.8543 | -107.7 ± 1.0 | $3.70^{+1.20}_{-1.10}$ | -1.90 ± 0.10 | | | | j |
| Andromeda XXVI | 118.1451 | -14.7025 | $-261.6^{+3.0}_{-2.8}$ | $8.60^{+2.80}_{-2.20}$ | | | | | e |
| Andromeda XXVII | 120.3590 | -17.4149 | $-539.6^{+4.7}_{-4.5}$ | $14.80^{+4.30}_{-3.10}$ | | | | | e |
| Andromeda XXVIII | 91.0305 | -22.9264 | -331.1 ± 1.8 | 4.90 ± 1.60 | -1.84 ± 0.15 | 0.65 ± 0.15 | | | k,l |
| Andromeda XXIX | 109.8016 | -30.7738 | -194.4 ± 1.5 | 5.70 ± 1.20 | -1.90 ± 0.12 | 0.57 ± 0.11 | | | k,l |

Table 10 continued on next page

Table 10 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|----------------|----------|----------|-------------------------|-------------------------|------------------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Cassiopeia II | 120.4624 | -13.1535 | $-139.8^{+36.0}_{-6.6}$ | $11.80^{+7.70}_{-4.70}$ | | | | | e |
| Cassiopeia III | 120.4800 | -11.2380 | -371.6 ± 0.7 | 8.40 ± 0.60 | -1.70 ± 0.10 | | | | m |
| IC 10 | 118.9727 | -3.3413 | -348.0 ± 1.0 | | | | -0.002 ± 0.008 | 0.020 ± 0.008 | n,o |
| Lacerta I | 101.0962 | -16.7150 | -198.4 ± 1.1 | 10.30 ± 0.90 | -2.00 ± 0.10 | | | | m |
| LGS 3 | 126.7625 | -40.8939 | -286.5 ± 0.3 | $7.90^{+5.30}_{-2.90}$ | | | | | o |
| M 32 | 121.1499 | -21.9764 | -199.0 ± 6.0 | 92.00 ± 5.00 | | | | | o |
| NGC 147 | 119.8159 | -14.2536 | -193.1 ± 0.8 | 16.00 ± 1.00 | | | 0.023 ± 0.014 | 0.038 ± 0.015 | o,p |
| NGC 185 | 120.7919 | -14.4838 | -203.8 ± 1.1 | 24.00 ± 1.00 | | | 0.024 ± 0.014 | 0.006 ± 0.015 | o,p |
| NGC 205 | 120.7178 | -21.1378 | -246.0 ± 1.0 | 35.00 ± 5.00 | | | | | o |
| Pegasus V | 101.4911 | -25.6126 | | | | | | | |
| Perseus I | 147.8182 | -15.5236 | -326.0 ± 3.0 | $4.20^{+3.60}_{-4.20}$ | -2.00 ± 0.20 | | | | m |
| Pisces VII | 131.3065 | -35.9886 | | | | | | | |

NOTE— Citations: (a) Kirby et al. (2020) (b) Tollerud et al. (2012) (c) Ho et al. (2012) (d) Wojno et al. (2020) (e) Collins et al. (2013) (f) Warfield et al. (2023) (g) Kvasova et al. (2024) (h) Collins et al. (2020) (i) Collins et al. (2021) (j) Charles et al. (2023) (k) Slater et al. (2015) (l) Tollerud et al. (2013) (m) Martin et al. (2014) (n) Brunthaler et al. (2007) (o) McConnachie (2012) (p) Sohn et al. (2020)

Table 11. Properties of M31 dwarf galaxies

| Name | M_\star M_\odot | $M_{\text{dyn}}(r_{1/2})$ M_\odot | $\Upsilon_{1/2}$ | M_{HI} M_\odot | M_{HI}/M_\star | Ref |
|------------------|------------------------|--|------------------|------------------------------|-------------------------|---------|
| Andromeda I | 5.9×10^6 | 7.2×10^7 | 24.4 | $< 8.1 \times 10^4$ | < 0.01 | a,b,c |
| Andromeda II | 8.3×10^6 | 5.3×10^7 | 12.8 | $< 4.6 \times 10^4$ | < 0.006 | d,a,b |
| Andromeda III | 1.1×10^6 | 2.2×10^7 | 40.4 | $< 5.8 \times 10^4$ | < 0.05 | a,b,c |
| Andromeda V | 9.0×10^5 | 3.1×10^7 | 69.4 | $< 7.7 \times 10^4$ | < 0.09 | a,b,c |
| Andromeda VI | 5.7×10^6 | 5.7×10^7 | 20.2 | $< 2.8 \times 10^4$ | < 0.005 | e,f,b |
| Andromeda VII | 2.2×10^7 | 1.2×10^8 | 11.0 | $< 7.7 \times 10^4$ | < 0.003 | f,b,c |
| Andromeda IX | 4.8×10^5 | 4.5×10^7 | 186.2 | $< 4.6 \times 10^4$ | < 0.10 | a,b,c |
| Andromeda X | 1.4×10^5 | 7.3×10^6 | 102.6 | $< 3.0 \times 10^4$ | < 0.2 | a,b,c |
| Andromeda XI | 6.1×10^4 | 6.3×10^6 | 208.1 | $< 4.8 \times 10^4$ | < 0.8 | e,a,b |
| Andromeda XII | 7.3×10^4 | $< 3.5 \times 10^6$ | < 173.1 | $< 4.7 \times 10^4$ | < 0.6 | e,a,b |
| Andromeda XIII | 8.7×10^4 | 3.7×10^6 | 85.4 | $< 6.7 \times 10^4$ | < 0.8 | a,b,c |
| Andromeda XIV | 4.9×10^5 | 8.0×10^6 | 32.8 | $< 2.3 \times 10^4$ | < 0.05 | a,b,c |
| Andromeda XV | 3.8×10^5 | 3.7×10^6 | 19.3 | $< 5.9 \times 10^4$ | < 0.2 | a,b,c |
| Andromeda XVI | 1.7×10^5 | 1.7×10^6 | 20.5 | $< 2.3 \times 10^4$ | < 0.1 | a,b,c |
| Andromeda XVII | 2.3×10^5 | 1.7×10^6 | 15.2 | $< 4.6 \times 10^4$ | < 0.2 | e,a,b |
| Andromeda XVIII | 7.9×10^5 | 2.2×10^7 | 54.6 | $< 2.1 \times 10^5$ | < 0.3 | g,h,a,b |
| Andromeda XIX | 1.8×10^6 | 1.2×10^8 | 137.5 | $< 1.3 \times 10^5$ | < 0.07 | i,a,b |
| Andromeda XX | 5.9×10^4 | 3.8×10^6 | 128.7 | $< 5.4 \times 10^4$ | < 0.9 | e,a,b |
| Andromeda XXI | 6.4×10^5 | 2.6×10^7 | 79.2 | $< 6.0 \times 10^4$ | < 0.09 | j,a,b |
| Andromeda XXII | 6.2×10^4 | 9.0×10^5 | 29.3 | $< 2.7 \times 10^4$ | < 0.4 | e,a,b |
| Andromeda XXIII | 1.4×10^6 | 4.2×10^7 | 61.5 | $< 7.7 \times 10^4$ | < 0.06 | e,a,b |
| Andromeda XXIV | 1.9×10^5 | $< 2.2 \times 10^7$ | < 441.1 | $< 4.1 \times 10^4$ | < 0.2 | e,a,b |
| Andromeda XXV | 7.3×10^5 | 7.4×10^6 | 20.2 | $< 2.5 \times 10^5$ | < 0.3 | k,a,b |
| Andromeda XXVI | 4.2×10^4 | 1.3×10^7 | 602.1 | $< 5.4 \times 10^4$ | < 1 | e,a,b |
| Andromeda XXVII | 2.5×10^5 | 6.8×10^7 | 553.5 | $< 9.0 \times 10^4$ | < 0.4 | e,b,l |
| Andromeda XXVIII | 4.3×10^5 | 5.1×10^6 | 23.5 | $< 2.2 \times 10^4$ | < 0.05 | g,b,m,n |
| Andromeda XXIX | 3.2×10^5 | 7.3×10^6 | 46.2 | $< 2.4 \times 10^4$ | < 0.08 | b,m,n |

Table 11 *continued on next page*

Table 11 (*continued*)

| Name | M_{\star} | $M_{\text{dyn}}(r_{1/2})$ | $\Upsilon_{1/2}$ | M_{HI} | M_{HI}/M_{\star} | Ref |
|----------------|-------------------|---------------------------|------------------|---------------------|---------------------------|-------|
| | M_{\odot} | M_{\odot} | | M_{\odot} | | |
| Cassiopeia II | 2.1×10^5 | 2.4×10^7 | 223.9 | $< 2.7 \times 10^4$ | < 0.1 | e,a,b |
| Cassiopeia III | 1.6×10^7 | 6.1×10^7 | 7.8 | $< 8.2 \times 10^4$ | < 0.005 | o,b,p |
| IC 10 | 1.6×10^8 | | | 4.7×10^7 | 0.3 | q,b |
| Lacerta I | 5.2×10^6 | 5.1×10^7 | 19.7 | $< 9.3 \times 10^4$ | < 0.02 | o,b,p |
| LGS 3 | 1.2×10^6 | 1.9×10^7 | 32.2 | 2.4×10^5 | 0.2 | q,b |
| M 32 | 5.9×10^8 | 7.2×10^8 | 2.5 | $< 1.7 \times 10^5$ | < 0.0003 | q,b |
| NGC 147 | 1.5×10^8 | 1.2×10^8 | 1.7 | $< 7.9 \times 10^4$ | < 0.0005 | q,b |
| NGC 185 | 1.5×10^8 | 2.4×10^8 | 3.2 | 1.2×10^5 | 0.0 | q,b |
| NGC 205 | 6.9×10^8 | 5.1×10^8 | 1.5 | 4.1×10^5 | 0.0 | q,b |
| Pegasus V | 5.7×10^4 | | | | | r |
| Perseus I | 6.0×10^5 | 4.5×10^6 | 14.9 | $< 6.6 \times 10^4$ | < 0.1 | o,b,p |
| Pisces VII | 4.3×10^4 | | | | | s |

NOTE—Citations: (a) [Martin et al. \(2016b\)](#) (b) [Putman et al. \(2021\)](#) (c) [Tollerud et al. \(2012\)](#) (d) [Ho et al. \(2012\)](#) (e) [Collins et al. \(2013\)](#) (f) [McConnachie & Irwin \(2006\)](#) (g) [Higgs et al. \(2021\)](#) (h) [Kvasova et al. \(2024\)](#) (i) [Collins et al. \(2020\)](#) (j) [Collins et al. \(2021\)](#) (k) [Charles et al. \(2023\)](#) (l) [Richardson et al. \(2011\)](#) (m) [Slater et al. \(2015\)](#) (n) [Tollerud et al. \(2013\)](#) (o) [Martin et al. \(2014\)](#) (p) [Rhode et al. \(2023\)](#) (q) [McConnachie \(2012\)](#) (r) [Collins et al. \(2022\)](#) (s) [Collins et al. \(2024\)](#)

Table 12. Properties of Local Field dwarf galaxies

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------|-----------------|------------|-------------|-------------|---|-----------|----------------|
| AGC749235 | PGC5059199 | 12:24:09.9 | +26:13:52.0 | local field | | | Dwarf Galaxy |
| DDO 44 | | 07:34:11.5 | +66:52:47.0 | ngc 2403 | | | Dwarf Galaxy |
| DDO 147 | UGC07949 | 12:46:59.8 | +36:28:35.0 | local field | | | Dwarf Galaxy |
| | PGC043129 | | | | | | |
| | KDG200 | | | | | | |
| | MCG +06-28-030 | | | | | | |
| ESO 274-001 | PGC054392 | 15:14:13.5 | -46:48:45.0 | NGC 5128 | | | Dwarf Galaxy |
| | RFGC2937 | | | | | | |
| | HIPASS J1514-46 | | | | | | |
| KKS53 | PGC2815820 | 13:11:14.2 | -38:54:22.0 | NGC 5128 | Karachentseva & Karachentsev (2000) | | Dwarf Galaxy |
| | [KK2000] 53 | | | | | | |
| | Cen7 | | | | | | |
| NGC 4190 | PGC039023 | 12:13:44.6 | +36:38:00.0 | NGC 4214 | | | Dwarf Galaxy |
| | UGC07232 | | | | | | |
| | CGCG 187-024 | | | | | | |
| NGC 4214 | NGC4228 | 12:15:39.2 | +36:19:38.6 | local field | | | Dwarf Galaxy |
| | PGC039225 | | | | | | |
| | UGC07278 | | | | | | |
| | CGCG 187-032 | | | | | | |
| | MCG +06-27-042 | | | | | | |
| NGC 4163 | UGC 7199 | 12:12:09.1 | +36:10:09.0 | local field | Herschel (1789) | | Dwarf Galaxy |
| | NGC 4167 | | | | | | |
| NGC 55 | | 00:14:53.6 | -39:11:48.0 | local field | Dunlop (1828) | | Dwarf Galaxy |
| NGC 300 | | 00:54:53.5 | -37:41:04.0 | local field | Dunlop (1828) | | Dwarf Galaxy |
| NGC 3109 | DDO 236 | 10:03:06.9 | -26:09:35.0 | local field | Herschel (1847) | | Dwarf Galaxy |
| | UGCA 194 | | | | | | |
| NGC 6822 | IC 4895 | 19:44:56.6 | -14:47:21.0 | local field | Barnard (1884) | | Dwarf Galaxy |

Table 12 *continued on next page*

Table 12 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|-----------------------|------------|-------------|-------------|--|-----------|----------------|
| | DDO 209 | | | | | | |
| | Barnard's Galaxy | | | | | | |
| IC 5152 | | 22:02:41.5 | -51:17:47.0 | local field | Pickering & Stewart (1899) | | Dwarf Galaxy |
| IC 4662 | ESO 102-G014 | 17:47:08.8 | -64:38:30.0 | local field | Lunt (1902) | | Dwarf Galaxy |
| IC 1613 | DDO 8 | 01:04:47.8 | +02:07:04.0 | local field | Wolf (1906) | | Dwarf Galaxy |
| | UGC 668 | | | | | | |
| IC 3104 | ESO 020-G004 | 12:18:46.0 | -79:43:34.0 | local field | Pickering (1908) | | Dwarf Galaxy |
| | UKS 1215-794 | | | | | | |
| WLM | Wolf-Lundmark-Melotte | 00:01:58.2 | -15:27:39.0 | local field | Wolf (1909) | | Dwarf Galaxy |
| | UGCA 444 | | | | Melotte (1926) | | |
| | DDO 221 | | | | | | |
| | LEDA 143 | | | | | | |
| Leo A | Leo III | 09:59:26.5 | +30:44:47.0 | local field | Zwicky (1942) | | Dwarf Galaxy |
| | UGC 5364 | | | | | | |
| | DDO 69 | | | | | | |
| | PGC 28868 | | | | | | |
| Sextans A | UGCA 205 | 10:11:00.8 | -04:41:34.0 | local field | Zwicky (1942) | | Dwarf Galaxy |
| | DDO 75 | | | | | | |
| GR 8 | UGC 8091 | 12:58:40.4 | +14:13:03.0 | local field | Reaves (1956) | | Dwarf Galaxy |
| | VV 558 | | | | | | |
| | DDO 155 | | | | | | |
| Pegasus dIrr | UGC 12613 | 23:28:36.3 | +14:44:35.0 | local field | Holmberg (1958) | | Dwarf Galaxy |
| | DDO 216 | | | | | | |
| Sextans B | UGC 5373 | 10:00:00.1 | +05:19:56.0 | local field | Holmberg (1958) | | Dwarf Galaxy |
| | DDO 70 | | | | | | |
| Aquarius | DDO 210 | 20:46:51.8 | -12:50:53.0 | local field | van den Bergh (1959) | | Dwarf Galaxy |
| DDO 99 | UGC 6817 | 11:50:53.0 | +38:52:49.0 | local field | van den Bergh (1959) | | Dwarf Galaxy |
| DDO 113 | UGCA 276 | 12:14:57.9 | +36:13:08.0 | NGC 4214 | van den Bergh (1959) | | Dwarf Galaxy |
| | KDG 90 | | | | | | |
| DDO 125 | UGC 7577 | 12:27:40.9 | +43:29:44.0 | local field | van den Bergh (1959) | | Dwarf Galaxy |

Table 12 *continued on next page*

Table 12 (continued)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------------|--|------------|-------------|-------------|--|-----------|----------------|
| DDO 190 | UGC 9240 | 14:24:43.4 | +44:31:33.0 | local field | van den Bergh (1959) | | Dwarf Galaxy |
| UGC 4879 | VV 124 | 09:16:02.2 | +52:50:24.0 | local field | Kopylov et al. (2008) Vorontsov-Velyaminov (1959) | | Dwarf Galaxy |
| UGC 9128 | DDO 187 CGCG 133-019 MCG +04-34-009 PGC050961 | 14:15:56.5 | +23:03:19.0 | local field | van den Bergh (1959) | | Dwarf Galaxy |
| UGC 8508 | | 13:30:44.4 | +54:54:36.0 | local field | Vorontsov-Vel'Yaminov & Krasnogorskaya (1962) | | Dwarf Galaxy |
| UGCA 86 | VII Zw009 | 03:59:48.3 | +67:08:19.0 | local field | Nilson (1974) | | Dwarf Galaxy |
| Phoenix | | 01:51:06.0 | -44:26:42.0 | local field | Schuster & West (1976) Canterna & Flower (1977) | | Dwarf Galaxy |
| Sagittarius dIrr | UKS 1927-177 | 19:29:59.0 | -17:40:51.0 | local field | Cesarsky et al. (1977) Longmore et al. (1978) | | Dwarf Galaxy |
| UKS 2323-326 | UGCA 438 ESO407-018 MCG -05-55-012 PGC071431 | 23:26:27.5 | -32:23:20.0 | local field | Longmore et al. (1978) | | Dwarf Galaxy |
| ESO 006-001 | | 08:19:23.3 | -85:08:44.0 | local field | Lauberts (1982) | | Dwarf Galaxy |
| ESO 294-G010 | | 00:26:33.4 | -41:51:19.0 | NGC 253 | Lauberts (1982) | | Dwarf Galaxy |
| ESO 410-G005 | UKS 0013-324 | 00:15:31.6 | -32:10:48.0 | NGC 253 | Lauberts (1982) | | Dwarf Galaxy |
| KKS 3 | KKs3 [KK2000] 03 PGC009140 | 02:24:44.4 | -73:30:51.0 | local field | Corwin et al. (1985) Karachentseva & Karachentsev (2000) Whiting et al. (2002) | | Dwarf Galaxy |
| Tucana | | 22:41:49.6 | -64:25:10.0 | local field | Lavery & Mighell (1992) Lavery (1990) Corwin et al. (1985) | | Dwarf Galaxy |
| Antlia | | 10:04:04.1 | -27:19:52.0 | local field | Whiting et al. (1997) | | Dwarf Galaxy |
| KK 258 | ESO468-020 [KK98]258 PGC069468 | 22:40:43.9 | -30:47:59.0 | local field | Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |

Table 12 continued on next page

Table 12 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------|----------------------------------|------------|-------------|-------------|---|-----------|----------------|
| KKR 25 | | 16:13:48.0 | +54:22:16.0 | local field | Karachentseva & Karachentsev (1998) Karachentseva et al. (1999) Karachentsev et al. (2001b) | | Dwarf Galaxy |
| KKR 3 | KK 230 [KK98]230 PGC166185 | 14:07:10.5 | +35:03:37.0 | local field | Karachentseva & Karachentsev (1998) Karachentseva et al. (1999) | | Dwarf Galaxy |
| Cetus | | 00:26:11.0 | -11:02:40.0 | local field | Whiting et al. (1999) | | Dwarf Galaxy |
| HIZSS 3A | | 07:00:29.3 | -04:12:30.0 | local field | Henning et al. (2000) Begum et al. (2005) | Cand. | |
| HIZSS 3B | | 07:00:29.3 | -04:12:30.0 | local field | Henning et al. (2000) Begum et al. (2005) | Cand. | |
| KKH 86 | | 13:54:33.5 | +04:14:35.0 | local field | Karachentsev et al. (2001a) | | Dwarf Galaxy |
| KKH 98 | | 23:45:34.0 | +38:43:04.0 | local field | Karachentsev et al. (2001a) | | Dwarf Galaxy |
| Leo T | | 09:34:53.4 | +17:03:05.0 | local field | Irwin et al. (2007) | | Dwarf Galaxy |
| Leo P | | 10:21:45.1 | +18:05:17.0 | local field | Giovanelli et al. (2013) | | Dwarf Galaxy |
| Antlia B | | 09:48:56.1 | -25:59:24.0 | NGC 3109 | Sand et al. (2015) | | Dwarf Galaxy |
| Tucana B | | 22:47:00.5 | -58:24:27.0 | local field | Sand et al. (2022) | | Dwarf Galaxy |
| Leo K | | 09:24:06.1 | +16:30:38.1 | local field | McQuinn et al. (2024) | | Dwarf Galaxy |
| Leo M | | 11:05:21.4 | +25:20:43.0 | local field | McQuinn et al. (2024) | | Dwarf Galaxy |
| NGC 55-dw1 | DES J0015-3825 | 00:15:29.8 | -38:25:08.4 | NGC 55 | McNanna et al. (2024) | Cand. | |
| Pavo | | 19:55:00.0 | -61:04:20.5 | local field | Jones et al. (2023) | | Dwarf Galaxy |
| Pegasus W | | 23:53:15.0 | +22:06:07.1 | local field | McQuinn et al. (2023) | | Dwarf Galaxy |
| Hedgehog | dw1322m2053 | 13:22:46.9 | -20:53:55.9 | local field | Li et al. (2024) | Cand. | |

NOTE—

Table 13. Properties of Local Field dwarf galaxies

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|--------------|----------|----------|-----------------|-----------------|-----------------|--------------------------|-------------------------|----------------------------|------|-----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| AGC749235 | 186.0412 | 26.2311 | 0.12 | 0.78 | | 44.3 | 27.16 | 2704.0 | 19.5 | -7.7 | a |
| Antlia | 151.0171 | -27.3311 | 1.20 ± 0.12 | 0.40 ± 0.04 | 135.0 ± 5.0 | $357.4^{+42.0}_{-42.6}$ | 25.60 ± 0.07 | $1318.3^{+43.2}_{-41.8}$ | 15.2 | -10.4 ± 0.2 | b,c |
| Antlia B | 147.2337 | -25.9900 | 0.72 ± 0.07 | 0.30 ± 0.05 | 4.0 ± 12.0 | $235.8^{+25.1}_{-26.2}$ | 25.65 ± 0.10 | $1349.0^{+63.6}_{-60.7}$ | 15.9 | -9.8 ± 0.6 | d,e |
| Aquarius | 311.7158 | -12.8481 | 1.63 ± 0.08 | 0.53 ± 0.05 | 96.6 ± 1.4 | $319.4^{+27.6}_{-25.6}$ | 24.97 ± 0.09 | $986.3^{+41.7}_{-40.0}$ | 14.5 | -10.5 ± 0.1 | f,b |
| Cetus | 6.5458 | -11.0444 | 3.20 ± 0.10 | 0.33 ± 0.06 | 63.0 ± 3.0 | $573.1^{+38.4}_{-35.9}$ | 24.39 ± 0.07 | $755.1^{+24.7}_{-24.0}$ | 13.2 | -11.2 ± 0.2 | b |
| DDO 44 | 113.5479 | 66.8797 | 0.74 ± 0.02 | 0.60 | | $639.6^{+26.9}_{-27.8}$ | 27.36 ± 0.07 | $2964.8^{+97.1}_{-94.1}$ | 14.5 | -12.9 | g |
| DDO 99 | 177.7208 | 38.8803 | 0.90 ± 0.09 | 0.29 ± 0.01 | 70.0 ± 4.0 | $568.3^{+71.2}_{-65.6}$ | 27.07 ± 0.14 | $2594.2^{+172.8}_{-162.0}$ | 13.9 | -13.2 ± 0.1 | b |
| DDO 113 | 183.7413 | 36.2189 | 0.73 ± 0.03 | 0.37 ± 0.05 | 40.0 ± 2.0 | $493.1^{+31.3}_{-29.4}$ | 27.35 ± 0.06 | $2951.2^{+82.7}_{-80.4}$ | 15.2 | -12.2 ± 0.1 | h,b |
| DDO 125 | 186.9204 | 43.4956 | 1.04 ± 0.10 | 0.41 ± 0.01 | -68.0 ± 4.0 | $598.9^{+53.5}_{-58.0}$ | 27.06 ± 0.05 | $2582.3^{+60.1}_{-58.8}$ | 12.7 | -14.4 ± 0.3 | b |
| DDO 147 | 191.7492 | 36.4764 | 1.45 | 0.21 | | 1101.3 | 27.34 ± 0.08 | $2937.6^{+110.2}_{-106.3}$ | 14.6 | -12.8 | i,a |
| DDO 190 | 216.1808 | 44.5258 | 0.64 ± 0.06 | 0.10 ± 0.02 | 82.0 ± 5.0 | $491.5^{+48.9}_{-45.0}$ | $27.23^{+0.02}_{-0.01}$ | $2792.5^{+25.8}_{-12.8}$ | 12.8 | -14.4 ± 0.1 | b,c |
| ESO 006-001 | 124.8471 | -85.1456 | 0.28 ± 0.03 | 0.11 | | $224.1^{+21.6}_{-21.3}$ | 27.16 ± 0.09 | $2704.0^{+114.4}_{-109.8}$ | 14.8 | -12.4 | j |
| ESO 274-001 | 228.5563 | -46.8125 | | 0.90 | | | 27.18 ± 0.08 | $2729.0^{+102.4}_{-98.7}$ | 9.0 | -18.2 | i,a |
| ESO 294-G010 | 6.6392 | -41.8553 | 0.42 ± 0.04 | 0.37 | 57.0 | $246.9^{+23.7}_{-23.6}$ | 26.54 ± 0.04 | $2032.4^{+37.8}_{-37.1}$ | 15.3 | -11.2 ± 0.3 | b |
| ESO 410-G005 | 3.8817 | -32.1800 | 0.50 ± 0.05 | 0.37 | 57.0 | $278.0^{+29.7}_{-28.9}$ | 26.42 ± 0.04 | $1923.1^{+35.8}_{-35.1}$ | 14.9 | -11.5 ± 0.3 | b |
| GR 8 | 194.6683 | 14.2175 | 0.32 ± 0.04 | 0.20 ± 0.05 | 61.0 ± 2.0 | $180.5^{+27.4}_{-26.7}$ | 26.69 ± 0.12 | $2177.7^{+123.7}_{-117.1}$ | 14.2 | -12.5 ± 0.2 | b |
| Hedgehog | 200.6953 | -20.8989 | 0.25 ± 0.01 | 0.22 ± 0.03 | | $154.6^{+12.2}_{-11.3}$ | 26.90 ± 0.10 | $2398.8^{+113.1}_{-108.0}$ | 17.1 | -9.8 ± 0.2 | k |
| HIZSS 3A | 105.1221 | -4.2083 | | | | | 26.12 ± 0.14 | $1674.9^{+111.5}_{-104.6}$ | | | b |
| HIZSS 3B | 105.1221 | -4.2083 | | | | | 26.12 ± 0.14 | $1674.9^{+111.5}_{-104.6}$ | | | b |
| IC 1613 | 16.1992 | 2.1178 | 7.57 ± 0.05 | 0.20 ± 0.05 | 90.5 ± 1.0 | $1439.7^{+63.9}_{-58.3}$ | 24.32 ± 0.05 | $731.1^{+17.0}_{-16.6}$ | 9.2 | -15.1 ± 0.1 | f,b,l |
| IC 3104 | 184.6917 | -79.7261 | 2.01 | 0.52 ± 0.02 | 45.0 ± 2.0 | 919.5 | 26.78 ± 0.18 | $2269.9^{+196.2}_{-180.6}$ | 12.5 | -14.3 | b |
| IC 4662 | 266.7867 | -64.6417 | 0.48 ± 0.05 | 0.27 ± 0.01 | -69.0 ± 4.0 | $289.9^{+37.9}_{-35.3}$ | 26.94 ± 0.17 | $2443.4^{+199.0}_{-184.0}$ | 11.1 | -15.8 ± 0.3 | b |
| IC 5152 | 330.6729 | -51.2964 | 0.97 | 0.38 ± 0.02 | 100.0 ± 2.0 | 433.2 | 26.45 ± 0.05 | $1949.8^{+45.4}_{-44.4}$ | 10.6 | -15.9 | b |
| KK 258 | 340.1829 | -30.7997 | 1.60 | 0.50 | | 771.5 | 26.85 ± 0.07 | $2344.2^{+76.8}_{-74.4}$ | 16.2 | -10.6 | m,n |
| KKH 86 | 208.6396 | 4.2431 | 0.28 ± 0.03 | 0.39 ± 0.01 | -3.0 ± 1.0 | $162.8^{+22.6}_{-20.2}$ | 27.06 ± 0.16 | $2582.3^{+197.5}_{-183.4}$ | 17.1 | -10.0 ± 0.3 | b |
| KKH 98 | 356.3917 | 38.7178 | 0.64 ± 0.06 | 0.41 ± 0.01 | -5.0 ± 1.0 | $362.0^{+37.0}_{-37.4}$ | 27.01 ± 0.09 | $2523.5^{+106.8}_{-102.5}$ | 15.2 | -11.8 ± 0.3 | b |
| KKR 25 | 243.4500 | 54.3711 | 0.40 ± 0.06 | 0.41 ± 0.02 | | $170.0^{+27.2}_{-27.5}$ | 26.42 ± 0.07 | $1923.1^{+63.0}_{-61.0}$ | 15.9 | -10.5 ± 0.2 | o,b |

Table 13 continued on next page

Table 13 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------------------|----------|----------|------------------------|------------------------|-------------------------|----------------------------|-------------------------|----------------------------|------|----------------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| KKR 3 | 211.7937 | 35.0603 | 0.36 ± 0.04 | 0.05 ± 0.01 | 0.0 ± 1.0 | $222.3^{+29.1}_{-24.5}$ | 26.70 ± 0.12 | $2187.8^{+124.3}_{-117.6}$ | 17.2 | -9.5 ± 0.3 | b |
| KKS 3 | 36.1850 | -73.5142 | 2.45 | 0.60 | | 954.8 | 26.63 ± 0.07 | $2118.4^{+69.4}_{-67.2}$ | 15.3 | -11.3 | p,a |
| KKS53 | 197.8091 | -38.9061 | 0.79 | 0.13 | | 612.5 | 27.28 ± 0.07 | $2857.6^{+93.6}_{-90.6}$ | 16.6 | -10.7 | i,a |
| Leo A | 149.8604 | 30.7464 | 2.30 ± 0.09 | 0.42 ± 0.05 | 116.4 ± 6.1 | $364.4^{+21.5}_{-23.1}$ | 24.28 ± 0.05 | $717.8^{+16.7}_{-16.3}$ | 12.4 | -11.9 ± 0.2 | f,b |
| Leo K | 141.0254 | 16.5106 | 0.64 ± 0.06 | 0.41 ± 0.01 | $-69.0^{+16.0}_{-12.0}$ | $60.8^{+11.4}_{-10.1}$ | $23.19^{+0.08}_{-0.64}$ | $434.5^{+16.3}_{-110.9}$ | 18.5 | $-4.7^{+0.7}_{-0.4}$ | q |
| Leo M | 166.3393 | 25.3453 | 1.00 ± 0.04 | 0.61 ± 0.01 | $-51.0^{+9.0}_{-7.0}$ | $83.2^{+4.4}_{-4.9}$ | $23.31^{+0.10}_{-0.09}$ | $459.2^{+21.6}_{-18.6}$ | 17.5 | $-5.8^{+0.1}_{-0.2}$ | q |
| Leo P | 155.4379 | 18.0881 | 1.20 | 0.52 | 335.0 | 392.2 | 26.05 ± 0.20 | $1621.8^{+156.5}_{-142.7}$ | 16.8 | -9.3 ± 0.2 | r |
| Leo T | 143.7225 | 17.0514 | 1.39 ± 0.20 | 0.12 ± 0.08 | 121.1 ± 34.7 | $156.4^{+23.0}_{-25.1}$ | 23.08 ± 0.08 | $413.0^{+15.5}_{-14.9}$ | 15.1 | -8.0 ± 0.5 | f,b |
| NGC 55 | 3.7233 | -39.1967 | $5.16^{+0.02}_{-0.20}$ | 0.83 ± 0.01 | 108.0 ± 2.0 | $1191.0^{+80.6}_{-79.4}$ | 26.43 ± 0.12 | $1932.0^{+109.8}_{-103.9}$ | 7.9 | -18.5 ± 0.1 | b |
| NGC 55-dw1 | 3.8740 | -38.4190 | $5.20^{+1.20}_{-0.80}$ | $0.56^{+0.10}_{-0.12}$ | $156.0^{+7.0}_{-8.0}$ | $2141.3^{+520.7}_{-492.2}$ | $26.71^{+0.12}_{-0.05}$ | $2197.9^{+124.9}_{-50.0}$ | 18.7 | $-8.0^{+0.5}_{-0.3}$ | s |
| NGC 300 | 13.7229 | -37.6844 | 5.00 | 0.83 ± 0.01 | 108.0 ± 2.0 | 1247.2 | 26.59 ± 0.06 | $2079.7^{+58.3}_{-56.7}$ | 8.1 | -18.5 ± 0.1 | b |
| NGC 3109 | 150.7788 | -26.1597 | 4.30 ± 0.10 | 0.82 ± 0.01 | 92.0 ± 1.0 | $687.9^{+37.9}_{-32.1}$ | 25.57 ± 0.08 | $1300.2^{+48.8}_{-47.0}$ | 10.7 | -14.9 ± 0.1 | b |
| NGC 4163 | 183.0379 | 36.1692 | 0.45 ± 0.05 | 0.30 ± 0.05 | 11.0 ± 2.0 | $312.9^{+35.8}_{-36.9}$ | 27.28 ± 0.03 | $2857.6^{+39.8}_{-39.2}$ | 13.2 | -14.1 ± 0.3 | b |
| NGC 4190 | 183.4358 | 36.6333 | 1.70 | 0.12 | | 1283.6 | 27.21 ± 0.06 | $2766.9^{+77.5}_{-75.4}$ | 13.4 | -13.9 | m,t |
| NGC 4214 | 183.9132 | 36.3274 | | 0.22 | | | 27.25 ± 0.07 | $2818.4^{+92.3}_{-89.4}$ | 9.6 | -17.6 | i,a |
| NGC 6822 | 296.2358 | -14.7892 | 11.95 ± 0.07 | 0.28 ± 0.15 | 66.9 ± 14.9 | $1669.3^{+168.3}_{-180.5}$ | 23.78 ± 0.05 | $570.2^{+13.3}_{-13.0}$ | 8.1 | -15.7 ± 0.2 | f,b |
| Pavo | 298.7499 | -61.0724 | 1.25 ± 0.10 | 0.51 ± 0.08 | 131.0 ± 21.0 | $501.6^{+76.2}_{-76.0}$ | 26.49 ± 0.23 | $1986.1^{+221.9}_{-199.6}$ | 16.5 | -10.0 ± 0.1 | u |
| Pegasus dIrr | 352.1513 | 14.7431 | 3.81 ± 0.05 | 0.56 ± 0.05 | 126.3 ± 0.3 | $648.4^{+41.5}_{-41.8}$ | 24.74 ± 0.05 | $887.2^{+20.7}_{-20.2}$ | 12.6 | -12.1 ± 0.2 | f,b,l |
| Pegasus W | 358.3125 | 22.1020 | 0.38 ± 0.03 | $0.17^{+0.07}_{-0.08}$ | 92.0 ± 3.0 | $92.4^{+12.6}_{-11.7}$ | $24.81^{+0.14}_{-0.22}$ | $916.2^{+61.0}_{-88.3}$ | 17.6 | -7.2 ± 0.2 | v |
| Phoenix | 27.7750 | -44.4450 | 2.43 ± 0.02 | 0.30 ± 0.03 | 8.0 ± 4.0 | $241.7^{+18.9}_{-19.7}$ | $23.06^{+0.21}_{-0.12}$ | $409.3^{+41.6}_{-22.0}$ | 13.2 | -9.9 ± 0.4 | w,x |
| Sagittarius dIrr | 292.4958 | -17.6808 | 1.13 ± 0.10 | 0.56 ± 0.18 | 86.9 ± 3.4 | $256.6^{+54.7}_{-59.3}$ | 25.39 ± 0.08 | $1196.7^{+44.9}_{-43.3}$ | 13.6 | -11.8 ± 0.2 | f,b |
| Sextans A | 152.7533 | -4.6928 | 2.47 | 0.17 ± 0.02 | 0.0 ± 1.0 | 905.7 | 25.70 ± 0.08 | $1383.6^{+51.3}_{-49.4}$ | 11.5 | -14.2 ± 0.1 | y,b |
| Sextans B | 150.0004 | 5.3322 | 1.06 ± 0.10 | 0.31 ± 0.03 | 110.0 ± 2.0 | $357.2^{+36.7}_{-33.1}$ | 25.72 ± 0.06 | $1393.2^{+36.4}_{-35.5}$ | 11.3 | -14.4 ± 0.2 | y,b |
| Tucana | 340.4567 | -64.4194 | 1.10 ± 0.20 | 0.48 ± 0.03 | 97.0 ± 2.0 | $204.2^{+38.5}_{-35.8}$ | 24.74 ± 0.12 | $887.2^{+50.4}_{-47.7}$ | 15.2 | -9.5 ± 0.2 | b |
| Tucana B | 341.7521 | -58.4075 | 0.20 ± 0.08 | < 0.35 | | $76.4^{+46.4}_{-34.1}$ | $25.75^{+0.55}_{-0.45}$ | $1412.5^{+407.2}_{-264.4}$ | 18.9 | $-6.9^{+0.5}_{-0.6}$ | z |
| UGC 4879 | 139.0092 | 52.8400 | 1.13 ± 0.10 | 0.43 ± 0.06 | 81.2 ± 6.5 | $301.7^{+33.6}_{-31.5}$ | 25.43 ± 0.06 | $1219.0^{+34.2}_{-33.2}$ | 13.2 | -12.2 ± 0.2 | f,b |
| UGC 8508 | 202.6850 | 54.9100 | 0.42 ± 0.04 | 0.45 ± 0.05 | -60.0 ± 2.0 | $232.2^{+26.1}_{-24.1}$ | 27.06 ± 0.03 | $2582.3^{+35.9}_{-35.4}$ | 13.7 | -13.4 ± 0.1 | b |
| UGC 9128 | 213.9854 | 23.0553 | 0.64 ± 0.07 | 0.40 ± 0.05 | 46.0 ± 2.0 | $324.0^{+38.1}_{-39.9}$ | 26.75 ± 0.02 | $2238.7^{+20.7}_{-20.5}$ | 14.4 | -12.3 ± 0.3 | b,c |
| UGCA 86 | 59.9513 | 67.1386 | 0.94 | 0.32 ± 0.03 | 25.0 ± 1.0 | 668.5 | 27.36 ± 0.17 | $2964.8^{+241.4}_{-223.3}$ | 14.2 | -13.2 | b |
| UKS 2323-326 | 351.6146 | -32.3889 | 0.90 ± 0.10 | 0.10 ± 0.01 | -60.0 ± 4.0 | $549.8^{+65.4}_{-60.3}$ | 26.72 ± 0.09 | $2208.0^{+93.4}_{-89.6}$ | 13.5 | -13.2 ± 0.2 | b |

Table 13 continued on next page

Table 13 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------|--------|----------|-----------------|-----------------|-----------------|-------------------------|------------------|-------------------------|------|-----------------|-----|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| WLM | 0.4925 | -15.4608 | 4.10 ± 0.13 | 0.54 ± 0.06 | 177.0 ± 0.5 | $756.0^{+56.5}_{-53.7}$ | 24.85 ± 0.05 | $933.3^{+21.7}_{-21.2}$ | 10.6 | -14.3 ± 0.1 | f,b |

NOTE— Citations: (a) [Karachentsev et al. \(2013a\)](#) (b) [McConnachie \(2012\)](#) (c) [Newman et al. \(2024\)](#) (d) [Hargis et al. \(2020\)](#) (e) [Sand et al. \(2015\)](#) (f) [Higgs et al. \(2021\)](#) (g) [Carlin et al. \(2019\)](#) (h) [Garling et al. \(2020\)](#) (i) [Tully et al. \(2009a\)](#) (j) [Makarova et al. \(2023\)](#) (k) [Li et al. \(2024\)](#) (l) [Savino et al. \(2022\)](#) (m) [Karachentsev et al. \(2004\)](#) (n) [Karachentsev et al. \(2014\)](#) (o) [Karachentsev et al. \(2001b\)](#) (p) [Karachentsev et al. \(2015b\)](#) (q) [McQuinn et al. \(2024\)](#) (r) [McQuinn et al. \(2015\)](#) (s) [McNanna et al. \(2024\)](#) (t) [Tully et al. \(2009b\)](#) (u) [Jones et al. \(2023\)](#) (v) [McQuinn et al. \(2023\)](#) (w) [Battaglia et al. \(2012\)](#) (x) [van de Rydt et al. \(1991\)](#) (y) [Dalcanton et al. \(2009\)](#) (z) [Sand et al. \(2022\)](#)

Table 14. Properties of Local Field dwarf galaxies

| Name | l deg | b deg | v_{los} km s ⁻¹ | σ_{los} km s ⁻¹ | [Fe/H] | $\sigma_{\text{[Fe/H]}}$ | $\mu_{\alpha*}$ mas yr ⁻¹ | μ_{δ} mas yr ⁻¹ | Ref |
|--------------|----------|----------|--|---|--------------|--|---|--|-------|
| AGC749235 | 219.7670 | 83.8428 | 288.0 | | | | | | a |
| Antlia | 263.0971 | 22.3123 | 362.0 ± 2.0 | | | | | | b |
| Antlia B | 259.4146 | 21.0783 | 375.5 ± 1.5 | 8.00 ^{+1.60} _{-1.40} | | | | | c |
| Aquarius | 34.0491 | -31.3432 | -141.8 ^{+1.8} _{-2.0} | 7.80 ^{+1.80} _{-1.10} | -1.44 ± 0.08 | 0.34 ^{+0.07} _{-0.06} | | | d |
| Cetus | 101.4548 | -72.8546 | -83.9 ± 1.2 | 8.30 ± 1.00 | -1.74 ± 0.06 | 0.42 ± 0.04 | | | e,f |
| DDO 44 | 149.0987 | 28.9584 | | | | | | | |
| DDO 99 | 166.1976 | 72.7452 | 251.0 ± 4.0 | | | | | | g |
| DDO 113 | 161.1016 | 78.0605 | 284.0 ± 6.0 | | | | | | g |
| DDO 125 | 137.7580 | 72.9422 | 194.9 ± 0.2 | | | | | | g |
| DDO 147 | 128.4088 | 80.6046 | 331.0 | | | | | | h |
| DDO 190 | 82.0085 | 64.4771 | 150.0 ± 4.0 | | | | | | g |
| ESO 006-001 | 297.9558 | -25.2235 | 319.0 ± 57.0 | | | | | | i |
| ESO 274-001 | 326.8040 | 9.3341 | 522.0 | | | | | | h |
| ESO 294-G010 | 320.4157 | -74.4176 | 106.9 ± 0.8 | | | | | | j |
| ESO 410-G005 | 357.8445 | -80.7112 | 158.9 ± 1.9 | | | | | | j |
| GR 8 | 310.7375 | 76.9795 | 213.9 ± 2.5 | | | | | | k |
| Hedgehog | 312.7045 | 41.3774 | | | | | | | |
| HIZSS 3A | 217.7081 | 0.0905 | 288.0 ± 2.5 | | | | | | g |
| HIZSS 3B | 217.7081 | 0.0905 | 322.6 ± 1.4 | | | | | | g |
| IC 1613 | 129.7378 | -60.5773 | -231.6 ± 1.2 | 10.80 ^{+1.00} _{-0.90} | -1.19 ± 0.01 | 0.37 | 0.040 ± 0.020 | 0.010 ± 0.010 | l,m,e |
| IC 3104 | 301.4140 | -16.9508 | 429.0 ± 4.0 | | | | | | g |
| IC 4662 | 328.5486 | -17.8497 | 302.0 ± 3.0 | | | | | | g |
| IC 5152 | 343.9191 | -50.1919 | 122.0 ± 2.0 | | | | | | g |
| KK 258 | 17.7289 | -61.2774 | 92.0 ± 5.0 | | | | | | n |
| KKH 86 | 339.0437 | 62.6026 | 287.2 ± 0.7 | | | | | | g |
| KKH 98 | 109.0931 | -22.3774 | -136.9 ± 1.0 | | | | | | g |
| KKR 25 | 83.8789 | 44.4084 | -139.5 ± 1.0 | | | | | | g |

Table 14 continued on next page

Table 14 (*continued*)

| Name | l deg | b deg | v_{los} km s ⁻¹ | σ_{los} km s ⁻¹ | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha*}$ mas yr ⁻¹ | μ_{δ} mas yr ⁻¹ | Ref |
|------------------|----------|----------|--|---|--------------|--|--|--|-------|
| KKR 3 | 63.7099 | 71.9922 | 63.3 ± 1.8 | | | | | | g |
| KKS 3 | 294.2352 | -42.0020 | 316.0 ± 7.0 | | -1.90 | | | | o,p |
| KKS53 | 307.1403 | 23.8038 | | | | | | | |
| Leo A | 196.9036 | 52.4226 | 26.2 ^{+1.0} _{-0.9} | 9.00 ^{+0.80} _{-0.60} | -1.60 ± 0.03 | 0.32 ± 0.03 | -0.060 ± 0.090 | -0.060 ^{+0.090} _{-0.080} | l,d |
| Leo K | 214.2409 | 41.0616 | | | | | | | |
| Leo M | 211.1934 | 66.1891 | | | | | | | |
| Leo P | 219.6378 | 54.4352 | 260.8 ± 2.5 | | | | | | q |
| Leo T | 214.8524 | 43.6609 | 38.1 ± 2.0 | 7.50 ± 1.60 | -1.74 ± 0.04 | 0.54 | 0.230 ^{+0.260} _{-0.370} | -0.120 ± 0.220 | l,m,r |
| NGC 55 | 332.8820 | -75.7309 | 129.0 ± 2.0 | | | | | | g |
| NGC 55-dw1 | 334.3700 | -76.4312 | | | | | | | |
| NGC 300 | 299.2083 | -79.4188 | 146.0 ± 2.0 | | | | | | g |
| NGC 3109 | 262.1018 | 23.0701 | 403.0 ± 2.0 | | | | -0.040 ± 0.030 | -0.010 ± 0.030 | l,g |
| NGC 4163 | 163.2045 | 77.7002 | 165.0 ± 5.0 | | | | | | g |
| NGC 4190 | 160.6200 | 77.5895 | 235.0 | | | | | | s |
| NGC 4214 | 160.2527 | 78.0742 | 293.0 | | | | | | h |
| NGC 6822 | 25.3513 | -18.3892 | -54.5 ± 1.7 | 23.20 ± 1.20 | -1.05 ± 0.01 | 0.49 | -0.060 ± 0.010 | -0.070 ± 0.010 | l,m,e |
| Pavo | 335.8525 | -31.1285 | | | | | | | |
| Pegasus dIrr | 94.7769 | -43.5541 | -179.5 ± 1.5 | 12.30 ^{+1.20} _{-1.10} | -1.39 ± 0.01 | 0.56 | 0.150 ^{+0.130} _{-0.140} | 0.070 ^{+0.120} _{-0.110} | l,m,e |
| Pegasus W | 105.5582 | -38.7987 | | | | | | | |
| Phoenix | 272.1615 | -68.9497 | -21.2 ± 1.0 | 9.30 ± 0.70 | -1.49 ± 0.04 | 0.51 ± 0.04 | 0.070 ± 0.030 | -0.060 ± 0.040 | l,t |
| Sagittarius dIrr | 21.0534 | -16.2859 | -78.4 ± 1.6 | 9.40 ^{+1.50} _{-1.10} | -1.85 ± 0.07 | 0.43 ^{+0.06} _{-0.05} | 0.110 ^{+0.190} _{-0.180} | -0.370 ± 0.170 | l,d |
| Sextans A | 246.1482 | 39.8755 | 324.0 ± 2.0 | | | | -0.150 ^{+0.050} _{-0.040} | -0.030 ^{+0.040} _{-0.050} | l,u |
| Sextans B | 233.2001 | 43.7838 | 304.0 ± 1.0 | | | | -0.290 ± 0.160 | -0.280 ± 0.170 | l,v |
| Tucana | 322.9083 | -47.3694 | 180.0 ± 1.3 | 6.20 ^{+1.60} _{-1.30} | -1.58 | 0.39 | | | w |
| Tucana B | 328.9877 | -51.9619 | | | | | | | |
| UGC 4879 | 164.6652 | 42.8843 | -29.2 ± 1.6 | 9.60 ^{+1.30} _{-1.20} | -1.43 ± 0.02 | 0.52 | 0.000 ± 0.110 | -0.040 ± 0.090 | l,m,e |
| UGC 8508 | 111.1411 | 61.3094 | 56.0 ± 5.0 | | | | | | g |
| UGC 9128 | 25.5732 | 70.4648 | 152.0 ± 1.0 | | | | | | g |
| UGCA 86 | 139.7625 | 10.6472 | 67.0 ± 4.0 | | | | | | g |
| UKS 2323-326 | 11.8670 | -70.8589 | 62.0 ± 5.0 | | | | | | g |

Table 14 *continued on next page*

Table 14 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|------|---------|----------|--------------------|-----------------------|--------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| WLM | 75.8637 | -73.6244 | -130.0 ± 1.0 | 17.50 ± 2.00 | | | 0.090 ± 0.030 | -0.070 ± 0.020 | l,x |

NOTE— Citations: (a) Karachentsev et al. (2013a) (b) Barnes & de Blok (2001) (c) Zoutendijk et al. (2021) (d) Kirby et al. (2017b) (e) Kirby et al. (2014) (f) Taibi et al. (2018) (g) McConnachie (2012) (h) Tully et al. (2009a) (i) Makarova et al. (2023) (j) Bouchard et al. (2005) (k) Young et al. (2003) (l) Battaglia et al. (2022) (m) Kirby et al. (2013b) (n) Karachentsev et al. (2014) (o) Karachentsev et al. (2015a) (p) Karachentsev et al. (2015b) (q) Bernstein-Cooper et al. (2014) (r) Simon & Geha (2007) (s) Tully et al. (2009b) (t) Kacharov et al. (2017) (u) Koribalski et al. (2004) (v) Hoffman et al. (1996) (w) Taibi et al. (2020) (x) Leaman et al. (2013)

Table 15. Properties of Local Field dwarf galaxies

| Name | M_{\star} M_{\odot} | $M_{\text{dyn}}(r_{1/2})$ M_{\odot} | $\Upsilon_{1/2}$ | M_{HI} M_{\odot} | M_{HI}/M_{\star} | Ref |
|--------------|----------------------------|--|------------------|--------------------------------|---------------------------|---------|
| AGC749235 | 2.0×10^5 | | | 1.2×10^6 | 5.8 | a |
| Antlia | 2.5×10^6 | | | 7.0×10^5 | 0.3 | b,c,d |
| Antlia B | 1.4×10^6 | 1.4×10^7 | 20.0 | 3.1×10^5 | 0.2 | e,f |
| Aquarius | 2.6×10^6 | 1.8×10^7 | 13.8 | 3.5×10^6 | 1.3 | g,h,c,d |
| Cetus | 5.1×10^6 | 3.7×10^7 | 14.4 | $< 9.5 \times 10^4$ | < 0.02 | i,c,d |
| DDO 44 | 2.5×10^7 | | | | | j |
| DDO 99 | 3.2×10^7 | | | | | c |
| DDO 113 | 1.3×10^7 | | | | | k,c |
| DDO 125 | 9.5×10^7 | | | | | c |
| DDO 147 | 2.2×10^7 | | | 2.9×10^7 | 1.3 | l,a |
| DDO 190 | 1.0×10^8 | | | | | c |
| ESO 006-001 | 1.6×10^7 | | | 1.3×10^6 | 0.1 | m |
| ESO 274-001 | 3.3×10^9 | | | 2.0×10^8 | 0.1 | l,a |
| ESO 294-G010 | 5.4×10^6 | | | 3.3×10^5 | 0.1 | n,c |
| ESO 410-G005 | 6.9×10^6 | | | 7.3×10^5 | 0.1 | n,c,d |
| GR 8 | 1.7×10^7 | | | 1.1×10^7 | 0.6 | c,o |
| Hedgehog | 1.5×10^6 | | | $< 9.9 \times 10^5$ | < 0.7 | p |
| HIZSS 3A | | | | 1.4×10^7 | 9.6 | c,d |
| HIZSS 3B | | | | 2.6×10^6 | 1.8 | c,d |
| IC 1613 | 1.9×10^8 | 1.6×10^8 | 1.6 | 6.1×10^7 | 0.3 | g,i,c,d |
| IC 3104 | 8.9×10^7 | | | | | c |
| IC 4662 | 3.7×10^8 | | | | | c |
| IC 5152 | 3.8×10^8 | | | 8.7×10^7 | 0.2 | c,d |
| KK 258 | 3.0×10^6 | | | | | q,r |
| KKH 86 | 1.6×10^6 | | | | | c |
| KKH 98 | 9.1×10^6 | | | | | c |
| KKR 25 | 2.8×10^6 | | | $< 6.1 \times 10^5$ | < 0.2 | s,c,d |

Table 15 continued on next page

Table 15 (*continued*)

| Name | M_{\star} M_{\odot} | $M_{\text{dyn}}(r_{1/2})$ M_{\odot} | $\Upsilon_{1/2}$ | M_{HI} M_{\odot} | M_{HI}/M_{\star} | Ref |
|------------------|----------------------------|--|------------------|--------------------------------|---------------------------|-------------|
| KKR 3 | 1.1×10^6 | | | | | c |
| KKS 3 | 5.7×10^6 | | | $< 5.0 \times 10^5$ | < 0.09 | t,u,a |
| KKS53 | 3.2×10^6 | | | $< 1.3 \times 10^6$ | < 0.4 | l,a |
| Leo A | 9.7×10^6 | 2.8×10^7 | 5.7 | 8.9×10^6 | 0.9 | g,h,c,d |
| Leo K | 1.3×10^4 | | | | | v |
| Leo M | 3.5×10^4 | | | | | v |
| Leo P | 8.7×10^5 | | | 9.4×10^5 | 1.1 | w,x,d |
| Leo T | 2.7×10^5 | 8.2×10^6 | 61.6 | 4.0×10^5 | 1.5 | y,g,c,z |
| NGC 55 | 4.4×10^9 | | | 1.3×10^9 | 0.3 | c,aa |
| NGC 55-dw1 | 2.7×10^5 | | | | | ab |
| NGC 300 | 4.3×10^9 | | | 1.8×10^9 | 0.4 | c,ac |
| NGC 3109 | 1.5×10^8 | | | 4.5×10^8 | 3.0 | c,d |
| NGC 4163 | 7.3×10^7 | | | | | c |
| NGC 4190 | 5.9×10^7 | | | 2.9×10^7 | 0.5 | q,ad |
| NGC 4214 | 2.0×10^9 | | | 2.8×10^8 | 0.1 | l,a |
| NGC 6822 | 3.2×10^8 | 8.4×10^8 | 5.3 | 2.0×10^8 | 0.6 | g,i,c,d |
| Pavo | 1.7×10^6 | | | $< 9.9 \times 10^5$ | < 0.6 | ae |
| Pegasus dIrr | 1.2×10^7 | 9.2×10^7 | 15.0 | 5.5×10^6 | 0.4 | g,i,c,d |
| Pegasus W | 1.3×10^5 | | | | | af |
| Phoenix | 1.5×10^6 | 1.9×10^7 | 25.7 | 1.2×10^5 | 0.1 | ag,ah,ai,aj |
| Sagittarius dIrr | 8.9×10^6 | 2.1×10^7 | 4.8 | 1.1×10^7 | 1.2 | g,h,c,d |
| Sextans A | 8.2×10^7 | | | 7.2×10^7 | 0.9 | ak,c,d |
| Sextans B | 1.0×10^8 | | | 4.9×10^7 | 0.5 | al,c,d |
| Tucana | 1.1×10^6 | 7.3×10^6 | 13.1 | $< 8.5 \times 10^4$ | < 0.08 | c,d,am |
| Tucana B | 9.8×10^4 | | | $< 4.0 \times 10^5$ | < 4 | an |
| UGC 4879 | 1.3×10^7 | 2.6×10^7 | 3.9 | 7.6×10^5 | 0.1 | g,i,c,d |
| UGC 8508 | 3.8×10^7 | | | | | c |
| UGC 9128 | 1.5×10^7 | | | | | c |
| UGCA 86 | 3.1×10^7 | | | | | c |
| UKS 2323-326 | 3.3×10^7 | | | | | c |

Table 15 *continued on next page*

Table 15 (*continued*)

| Name | M_{\star} | $M_{\text{dyn}}(r_{1/2})$ | $\Upsilon_{1/2}$ | M_{HI} | M_{HI}/M_{\star} | Ref |
|------|-------------------|---------------------------|------------------|-------------------|---------------------------|----------|
| | M_{\odot} | M_{\odot} | | M_{\odot} | | |
| WLM | 8.6×10^7 | 2.2×10^8 | 5.0 | 6.1×10^7 | 0.7 | g,ao,c,d |

NOTE—Citations: (a) [Karachentsev et al. \(2013a\)](#) (b) [Barnes & de Blok \(2001\)](#) (c) [McConnachie \(2012\)](#) (d) [Putman et al. \(2021\)](#) (e) [Sand et al. \(2015\)](#) (f) [Zoutendijk et al. \(2021\)](#) (g) [Higgs et al. \(2021\)](#) (h) [Kirby et al. \(2017b\)](#) (i) [Kirby et al. \(2014\)](#) (j) [Carlin et al. \(2019\)](#) (k) [Garling et al. \(2020\)](#) (l) [Tully et al. \(2009a\)](#) (m) [Makarova et al. \(2023\)](#) (n) [Bouchard et al. \(2005\)](#) (o) [Young et al. \(2003\)](#) (p) [Li et al. \(2024\)](#) (q) [Karachentsev et al. \(2004\)](#) (r) [Karachentsev et al. \(2014\)](#) (s) [Karachentsev et al. \(2001b\)](#) (t) [Karachentsev et al. \(2015a\)](#) (u) [Karachentsev et al. \(2015b\)](#) (v) [McQuinn et al. \(2024\)](#) (w) [Bernstein-Cooper et al. \(2014\)](#) (x) [McQuinn et al. \(2015\)](#) (y) [Adams & Oosterloo \(2018\)](#) (z) [Simon & Geha \(2007\)](#) (aa) [Puche et al. \(1991\)](#) (ab) [McNanna et al. \(2024\)](#) (ac) [Westmeier et al. \(2011\)](#) (ad) [Tully et al. \(2009b\)](#) (ae) [Jones et al. \(2023\)](#) (af) [McQuinn et al. \(2023\)](#) (ag) [Battaglia et al. \(2012\)](#) (ah) [Kacharov et al. \(2017\)](#) (ai) [Young et al. \(2007\)](#) (aj) [van de Rydt et al. \(1991\)](#) (ak) [Koribalski et al. \(2004\)](#) (al) [Hoffman et al. \(1996\)](#) (am) [Taibi et al. \(2020\)](#) (an) [Sand et al. \(2022\)](#) (ao) [Leaman et al. \(2013\)](#)

Table 16. Properties of Local Volume dwarf galaxies

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------------|---|------------|-------------|---------|---|-----------|----------------|
| Donatiello I | | 01:11:40.4 | +34:36:03.2 | | Martínez-Delgado et al. (2018) | Cand. | |
| KKH 22 | PGC2807114 LEDA 2807114 | 03:44:56.6 | +72:03:52.0 | ic 342 | Karachentsev et al. (2001a) | | Dwarf Galaxy |
| IKN | | 10:08:05.0 | +68:25:16.1 | M 81 | | | Dwarf Galaxy |
| F8D1 | | 09:44:45.9 | +67:26:27.7 | M 81 | Caldwell et al. (1998) | | Dwarf Galaxy |
| dw0910+7326 | Blobby | 09:10:13.5 | +73:26:19.2 | M 81 | Casey et al. (2023) | Cand. | |
| M81-dw J0954+6821 | | 09:54:07.0 | +68:21:50.8 | M 81 | Bell et al. (2022) | Cand. | |
| ESO 540-032 | ESO 540-G032 FG24 KK98-010 PGC002933 | 00:50:24.3 | -19:54:24.2 | NGC 253 | | | Dwarf Galaxy |
| NGC 247 | ESO540-022 PGC002758 UGCA011 | 00:47:08.5 | -20:45:37.4 | NGC 253 | | | Dwarf Galaxy |
| DDO 6 | ESO540-031 HIPASS J0049-20 MCG -04-03-019 PGC002902 UGCA015 | 00:49:49.2 | -21:00:54.0 | NGC 253 | van den Bergh (1959) | | Dwarf Galaxy |
| KDG 2 | ESO 540-G030 ESO 540-030 PGC002881 KK98-009 | 00:49:21.0 | -18:04:31.5 | NGC 253 | Karachentseva (1968) Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |
| Sculptor-dE1 | Sc22 PGC3097727 Sculptor-dE1 | 00:23:51.7 | -24:42:18.0 | NGC 253 | Cote et al. (1997) | | Dwarf Galaxy |
| Scl-MM-Dw1 | | 00:47:35.1 | -26:23:23.0 | NGC 253 | Sand et al. (2014) | | Dwarf Galaxy |

Table 16 continued on next page

Table 16 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-----------------|--|------------|-------------|----------|--|-----------|----------------|
| Scl-MM-Dw2 | NGC 253-dw2 | 00:50:17.1 | -24:44:58.6 | NGC 253 | Toloba et al. (2016) Romanowsky et al. (2016) | | Dwarf Galaxy |
| LV J0055-2310 | GALEXASC J005501.01-231008.9 WOC2017-07 | 00:55:07.0 | -23:12:22.0 | NGC 253 | Westmeier et al. (2017) Karachentsev et al. (2021) | | Dwarf Galaxy |
| Donatiello III | | 01:09:24.6 | -27:20:49.5 | NGC 253 | Martínez-Delgado et al. (2021) Mutlu-Pakdil et al. (2024) | | Dwarf Galaxy |
| Donatiello IV | | 00:47:03.0 | -21:40:50.6 | NGC 253 | Martínez-Delgado et al. (2021) Mutlu-Pakdil et al. (2024) | | Dwarf Galaxy |
| Scl-MM-Dw3 | Donatiello II | 00:47:07.1 | -23:57:20.6 | NGC 253 | Martínez-Delgado et al. (2021) Mutlu-Pakdil et al. (2022) | | Dwarf Galaxy |
| dw0036m2828 | | 00:36:30.7 | -28:28:09.6 | NGC 253 | Carlsten et al. (2022) Mutlu-Pakdil et al. (2024) | | Dwarf Galaxy |
| Scl-MM-Dw4 | | 00:53:49.1 | -25:28:27.9 | NGC 253 | Mutlu-Pakdil et al. (2022) | | Dwarf Galaxy |
| Scl-MM-Dw5 | | 00:50:25.9 | -26:43:38.1 | NGC 253 | Mutlu-Pakdil et al. (2022) | | Dwarf Galaxy |
| Donatiello V | | 00:32:58.3 | -23:16:45.1 | NGC 253 | Martinez-Delgado et al. (2024) | Cand. | |
| Donatiello VI | | 00:34:55.7 | -21:59:41.3 | NGC 253 | Martinez-Delgado et al. (2024) | Cand. | |
| Donatiello VII | | 00:37:34.8 | -29:28:44.8 | NGC 253 | Martinez-Delgado et al. (2024) | Cand. | |
| Donatiello VIII | | 00:40:34.9 | -20:33:25.2 | NGC 253 | Martinez-Delgado et al. (2024) | Cand. | |
| Donatiello IX | | 00:42:42.2 | -23:46:10.6 | NGC 253 | Martinez-Delgado et al. (2024) | Cand. | |
| NGC253-SNFC-dw1 | | 00:48:39.7 | -26:33:48.7 | NGC 253 | Okamoto et al. (2024) | Cand. | |
| MADCASH-1 | MADCASH J074238+652501-dw | 10:42:39.4 | +65:25:00.0 | ngc 2403 | Carlin et al. (2016) Carlin et al. (2021) | | Dwarf Galaxy |
| MADCASH-2 | MADCASH J121007+352635-dw | 12:10:06.7 | +35:26:34.6 | NGC 4214 | Carlin et al. (2021) | | Dwarf Galaxy |
| ESO 269-066 | KK190 [KK98]190 PGC045916 | 13:13:09.2 | -44:53:24.0 | NGC 5128 | | | Dwarf Galaxy |
| KK 211 | AM1339-445 [KK98]211 PGC048515 | 13:42:05.5 | -45:12:18.0 | NGC 5128 | Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |
| KK 221 | [KK98]221 | 13:48:46.4 | -46:59:49.0 | NGC 5128 | Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |

Table 16 *continued on next page*

Table 16 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------|-----------------------|------------|-------------|----------|---|-----------|----------------|
| | PGC166179 | | | | | | |
| CenA-MM-Dw2 | CenA-Dw-132956-415220 | 13:29:57.4 | -41:52:23.7 | NGC 5128 | Crnojević et al. (2014) | | Dwarf Galaxy |
| KK 197 | SGC1319.1-4216 | 13:22:01.8 | -42:32:08.0 | NGC 5128 | Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |
| KK 203 | PGC166167 | 13:27:28.1 | -45:21:09.0 | NGC 5128 | Karachentseva & Karachentsev (1998) | | Dwarf Galaxy |
| KKs 54 | Centaurus A-dE2 | 13:21:31.8 | -31:53:09.8 | NGC 5128 | Jerjen et al. (2000a) | | Dwarf Galaxy |
| | [KK2000] 54 | | | | Karachentseva & Karachentsev (2000) | | |
| | PGC2815821 | | | | | | |
| KKs 55 | [KK2000]55 | 13:22:12.4 | -42:43:51.0 | NGC 5128 | Karachentseva & Karachentsev (2000) | | Dwarf Galaxy |
| | PGC2815822 | | | | | | |
| KKs 57 | [KK2000]57 | 13:41:38.1 | -42:34:55.0 | NGC 5128 | Karachentseva & Karachentsev (2000) | | Dwarf Galaxy |
| | PGC2815823 | | | | | | |
| KKs 58 | Cen A-dE3 | 13:46:00.4 | -36:19:42.5 | NGC 5128 | Jerjen et al. (2000a) | | Dwarf Galaxy |
| | PGC2815824 | | | | Karachentseva & Karachentsev (2000) | | |
| | [KK2000] 58 | | | | | | |
| CenA-MM-Dw1 | CenA-Dw-133013-415321 | 13:30:14.3 | -41:53:35.8 | NGC 5128 | Crnojević et al. (2014) | | Dwarf Galaxy |
| CenA-MM-Dw3 | | 13:30:20.4 | -42:11:30.3 | NGC 5128 | Crnojević et al. (2016b) | | Dwarf Galaxy |
| CenA-MM-Dw4 | CenA-Dw-132302-414705 | 13:23:02.6 | -41:47:08.9 | NGC 5128 | Crnojević et al. (2016b) | | Dwarf Galaxy |
| CenA-MM-Dw5 | CenA-Dw-131952-415938 | 13:19:52.4 | -41:59:40.7 | NGC 5128 | Crnojević et al. (2016b) | | Dwarf Galaxy |
| CenA-MM-Dw6 | CenA-Dw-132557-410538 | 13:25:57.3 | -41:05:37.1 | NGC 5128 | Crnojević et al. (2016b) | | Dwarf Galaxy |
| CenA-MM-Dw7 | CenA-Dw-132628-433318 | 13:26:28.5 | -43:33:23.1 | NGC 5128 | Crnojević et al. (2016b) | | Dwarf Galaxy |
| CenA-MM-Dw8 | | 13:33:34.1 | -41:36:29.0 | NGC 5128 | Crnojević et al. (2016b) | Cand. | |
| CenA-MM-Dw9 | | 13:33:01.5 | -42:31:49.0 | NGC 5128 | Crnojević et al. (2016b) | Cand. | |
| dw1325-33 | | 13:25:41.0 | -33:00:25.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1326-29 | | 13:26:04.0 | -29:24:16.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1326-35 | | 13:26:44.0 | -35:05:00.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1328-29 | | 13:28:12.0 | -29:28:45.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1329-32 | | 13:29:58.0 | -32:29:46.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1330-32 | | 13:30:54.0 | -32:18:21.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1330-33 | | 13:30:04.0 | -33:50:06.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1330-34 | | 13:30:02.0 | -34:00:14.0 | NGC 5128 | Müller et al. (2015) | Cand. | |

Table 16 *continued on next page*

Table 16 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------|------------|------------|-------------|----------|--|-----------|----------------|
| dw1334-32 | | 13:34:05.0 | -32:06:28.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1335-29 | | 13:35:46.9 | -29:42:22.4 | NGC 5128 | Müller et al. (2015) Carrillo et al. (2017) | | Dwarf Galaxy |
| dw1335-33 | | 13:35:25.0 | -33:18:00.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1336-32 | | 13:36:33.0 | -32:18:05.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1337-26 | | 13:37:13.0 | -26:48:10.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1337-33 | | 13:37:02.0 | -33:31:25.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1340-30 | | 13:40:19.0 | -30:21:35.0 | NGC 5128 | Müller et al. (2015) | | Dwarf Galaxy |
| dw1341-33 | | 13:41:13.0 | -33:49:30.0 | NGC 5128 | Müller et al. (2015) | Cand. | |
| dw1240-42 | | 12:40:02.0 | -42:24:44.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1241-32 | | 12:41:27.0 | -42:53:45.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1243-42 | | 12:43:13.0 | -42:27:48.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1243-42b | | 12:43:11.0 | -42:26:37.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1251-40 | | 12:51:56.0 | -40:19:53.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1252-40 | | 12:52:01.0 | -40:21:55.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1252-43 | | 12:52:25.0 | -43:05:58.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1257-41 | | 12:57:45.0 | -41:22:52.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1258-37 | | 12:58:29.0 | -37:07:21.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1301-30 | | 13:01:28.0 | -30:06:43.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1302-40 | | 13:02:49.0 | -40:08:35.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1306-29 | | 13:06:48.0 | -29:53:30.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1314-28 | | 13:14:02.0 | -28:12:12.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1318-21 | | 13:18:04.0 | -21:53:06.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1321-27 | | 13:21:08.0 | -27:44:56.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1322-27 | | 13:22:06.0 | -27:34:45.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1322-39 | | 13:22:37.4 | -39:54:30.2 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1323-40a | dw1323-40 | 13:24:58.1 | -40:45:43.9 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1323-40b | | 13:24:00.0 | -40:50:12.1 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1326-37 | | 13:26:22.0 | -37:23:08.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1329-45 | | 13:29:10.0 | -45:10:31.0 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |

Table 16 *continued on next page*

Table 16 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|----------------|------------|-------------|----------|-------------------------|-----------|----------------|
| dw1330-38 | | 13:30:41.0 | -38:10:03.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1331-40 | | 13:31:26.0 | -40:15:47.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1336-44 | | 13:36:44.0 | -44:26:50.0 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1337-41 | | 13:37:55.0 | -41:54:11.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1341-43 | | 13:41:41.3 | -44:26:54.6 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1342-43 | | 13:42:48.7 | -43:51:22.0 | NGC 5128 | Müller et al. (2017) | | Dwarf Galaxy |
| dw1343-34 | | 13:43:49.0 | -34:56:07.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1357-28 | | 13:57:00.0 | -28:55:15.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1401-32 | | 14:01:25.0 | -32:37:46.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1403-33 | | 14:03:18.0 | -33:24:14.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1406-29 | | 14:06:41.0 | -29:08:10.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1409-33 | | 14:09:03.0 | -33:49:40.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1410-34 | | 14:10:47.0 | -34:52:07.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1413-34 | | 14:13:08.0 | -34:23:33.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1415-32 | | 14:15:41.0 | -32:34:21.0 | NGC 5128 | Müller et al. (2017) | Cand. | |
| dw1312-4218 | | 13:12:22.5 | -42:18:41.6 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1312-4244 | | 13:12:10.9 | -42:44:43.7 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1312-4246 | | 13:12:10.2 | -42:46:48.5 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1313-4211 | | 13:13:34.3 | -42:11:08.4 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1313-4214 | | 13:13:36.4 | -42:14:08.1 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1313-4246 | | 13:12:42.9 | -42:46:50.6 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1314-4142 | | 13:14:44.8 | -41:42:28.3 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1314-4204 | | 13:14:08.2 | -42:04:08.5 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1314-4230 | | 13:14:21.9 | -42:30:41.9 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1315-4232 | | 13:15:03.0 | -42:32:17.8 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1315-4309 | | 13:15:34.0 | -43:09:27.2 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1316-4224 | | 13:16:42.3 | -42:24:05.3 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1318-4233 | | 13:18:05.6 | -42:33:37.1 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| dw1319-4203 | | 13:19:21.3 | -42:03:38.7 | NGC 5128 | Taylor et al. (2018) | Cand. | |
| CenA-MM-Dw10 | CenA-MM17-Dw10 | 13:24:32.9 | -44:44:07.1 | NGC 5128 | Crnojević et al. (2019) | Cand. | |

Table 16 continued on next page

Table 16 (continued)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|-------------------------------|------------|-------------|----------|---|-----------|----------------|
| CenA-MM-Dw11 | CenA-MM17-Dw11 dw1317-4255 | 13:17:49.2 | -42:55:36.8 | NGC 5128 | Crnojević et al. (2019) Taylor et al. (2018) | Cand. | |

NOTE—

Table 17. Properties of Local Volume dwarf galaxies

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-------------------|----------|----------|--------------------|-----------------|-----------------------|----------------------|-------------------------|----------------------|------|----------------------|-----|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| Donatiello I | 17.9182 | 34.6009 | 28.80 ± 9.00 | 0.68 ± 0.01 | | 255^{+91}_{-83} | 27.60 ± 0.20 | 3311^{+319}_{-291} | 19.3 | -8.3 ± 0.3 | a |
| KKH 22 | 56.2358 | 72.0644 | | 0.48 | | | 27.47 ± 0.13 | 3119^{+192}_{-181} | 15.3 | -12.2 ± 0.1 | b |
| F8D1 | 146.1915 | 67.4410 | 118.80 ± 0.60 | 0.12 ± 0.01 | 90.4 ± 5.1 | 1980^{+29}_{-30} | 27.82 ± 0.03 | 3664^{+51}_{-50} | 13.8 | -14.0 ± 0.0 | c |
| IKN | 152.0208 | 68.4211 | 79.20 ± 0.60 | 0.10 | 174.6 | 1437 ± 121 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 13.6 | -14.3 ± 0.5 | d,e |
| M81-dw J0954+6821 | 148.5292 | 68.3641 | 4.47 ± 0.46 | 0.55 ± 0.10 | 25.0 ± 8.0 | 52 ± 8 | 27.78 | 3597 | 20.7 | -7.1 ± 0.2 | f |
| dw0910+7326 | 137.5560 | 73.4387 | 50.80 ± 1.40 | 0.10 ± 0.01 | 85.1 ± 15.0 | 753^{+96}_{-103} | 27.53 ± 0.28 | 3206^{+441}_{-388} | 15.7 | -11.9 ± 0.3 | g |
| DDO 6 | 12.4550 | -21.0150 | | | | | $27.68^{+0.09}_{-0.10}$ | 3436^{+145}_{-155} | 14.9 | -12.8 | h |
| Donatiello III | 17.3524 | -27.3471 | 12.60 ± 0.80 | 0.59 ± 0.01 | -10.4 ± 1.6 | 131^{+11}_{-10} | 27.64 ± 0.11 | 3373^{+175}_{-167} | 18.7 | -8.9 ± 0.1 | i |
| Donatiello IV | 11.7625 | -21.6807 | 16.20 ± 2.10 | 0.40 ± 0.03 | 24.0 ± 3.7 | 239^{+53}_{-48} | 27.98 ± 0.33 | 3945^{+647}_{-556} | 19.4 | -8.6 ± 0.3 | i |
| Donatiello V | 8.2430 | -23.2792 | 9.00 ± 0.50 | 0.69 ± 0.01 | 34.0 ± 1.0 | 84 ± 6 | 27.70 ± 0.07 | 3467^{+114}_{-110} | 20.3 | -7.4 ± 0.0 | j,k |
| Donatiello VI | 8.7320 | -21.9948 | 7.60 ± 0.10 | 0.53 ± 0.01 | -44.0 ± 0.7 | 88 ± 3 | 27.70 ± 0.07 | 3467^{+114}_{-110} | 19.5 | -8.2 ± 0.0 | j,k |
| Donatiello VII | 9.3951 | -29.4791 | 7.60 ± 0.30 | 0.47 ± 0.02 | -57.0 ± 2.0 | 93^{+6}_{-5} | 27.70 ± 0.07 | 3467^{+114}_{-110} | 20.4 | -7.3 ± 0.0 | j,k |
| Donatiello VIII | 10.1454 | -20.5570 | 24.00 ± 2.00 | 0.69 ± 0.01 | 12.9 ± 0.8 | 225 ± 20 | 27.70 ± 0.07 | 3467^{+114}_{-110} | 19.0 | -8.7 ± 0.1 | j,k |
| Donatiello IX | 10.6760 | -23.7696 | 15.50 ± 0.80 | 0.57 ± 0.01 | -27.0 ± 2.0 | 171^{+11}_{-10} | 27.70 ± 0.07 | 3467^{+114}_{-110} | 19.8 | -7.9 ± 0.0 | j,k |
| ESO 540-032 | 12.6013 | -19.9067 | | | | | 28.80 ± 0.03 | 5754^{+80}_{-79} | 16.0 | -12.8 | h |
| KDG 2 | 12.3373 | -18.0754 | | | | | 27.76 ± 0.04 | 3565^{+66}_{-65} | 16.0 | -11.8 | h |
| LV J0055-2310 | 13.7792 | -23.2061 | | | | | 27.79 ± 0.11 | 3614^{+188}_{-179} | 17.7 | -10.1 | l,m |
| NGC 247 | 11.7856 | -20.7604 | | | | | 27.85 ± 0.02 | 3715 ± 34 | 9.0 | -18.9 | h |
| NGC253-SNFC-dw1 | 12.1653 | -26.5635 | 192.00 ± 9.60 | 0.06 | 104.8 | 3364^{+252}_{-234} | 27.79 ± 0.12 | 3614^{+205}_{-194} | 16.1 | -11.7 ± 0.2 | n |
| dw0036m2828 | 9.1278 | -28.4693 | 18.38 ± 2.40 | 0.38 ± 0.90 | 56.0 ± 9.0 | 234^{+82}_{-95} | 27.88 ± 0.20 | 3767^{+363}_{-331} | 19.1 | -8.8 ± 0.3 | i |
| Scl-MM-Dw1 | 11.8964 | -26.3897 | 18.80 ± 1.80 | 0.20 ± 0.07 | 133.0 ± 24.0 | 280^{+55}_{-49} | 27.73 ± 0.33 | 3516^{+577}_{-496} | 19.0 | -8.8 ± 0.1 | o |
| Scl-MM-Dw2 | 12.5711 | -24.7496 | 194.40 ± 30.60 | 0.66 ± 0.06 | 31.0 ± 3.0 | 1918^{+383}_{-345} | 27.74 ± 0.07 | 3532^{+116}_{-112} | 15.4 | -12.4 ± 0.5 | o,p |
| Scl-MM-Dw3 | 11.7795 | -23.9557 | 6.60 ± 1.80 | 0.57 ± 0.12 | 70.0 ± 13.0 | 70^{+25}_{-20} | $27.70^{+0.09}_{-0.18}$ | 3467^{+147}_{-276} | 20.5 | $-7.2^{+0.3}_{-0.2}$ | o |
| Scl-MM-Dw4 | 13.4548 | -25.4744 | 9.50 ± 2.60 | 0.43 ± 0.19 | $80.0^{+0.0}_{-46.0}$ | 138^{+51}_{-49} | $28.07^{+0.09}_{-0.18}$ | 4111^{+174}_{-327} | 20.8 | $-7.3^{+0.3}_{-0.2}$ | o |
| Scl-MM-Dw5 | 12.6078 | -26.7273 | 19.00 ± 5.20 | 0.66 ± 0.11 | 169.0 ± 7.0 | 204^{+73}_{-63} | $27.95^{+0.15}_{-0.10}$ | 3890^{+278}_{-175} | 20.4 | $-7.5^{+0.3}_{-0.2}$ | o |
| Sculptor-dE1 | 5.9654 | -24.7050 | 1230.00 | | | 25673 | 28.17 ± 0.12 | 4305^{+245}_{-231} | 16.7 | -11.5 | q,r |
| MADCASH-1 | 160.6642 | 65.4167 | 10.80 ± 1.00 | 0.25 ± 0.11 | 0.0 ± 19.0 | 152^{+22}_{-20} | 27.66 ± 0.15 | 3404^{+243}_{-227} | 19.9 | -7.8 ± 0.2 | s |

Table 17 continued on next page

Table 17 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|--------------|----------|----------|-------------------|-----------------|-----------------|----------------------|-------------------------|----------------------|------|-----------------|-----|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| MADCASH-2 | 182.5281 | 35.4429 | 9.00 ± 0.50 | 0.19 ± 0.05 | 76.0 ± 11.0 | 117^{+9}_{-8} | $27.39^{+0.09}_{-0.11}$ | 3006^{+127}_{-148} | 18.2 | -9.2 ± 0.1 | s |
| CenA-MM-Dw1 | 202.5594 | -41.8933 | 96.00 ± 1.80 | 0.22 ± 0.02 | 51.1 ± 6.1 | 1605^{+65}_{-68} | 27.96 ± 0.07 | 3908^{+128}_{-124} | 14.2 | -13.8 ± 0.1 | t |
| CenA-MM-Dw2 | 202.4892 | -41.8732 | 20.40 ± 1.80 | < 0.17 | | 409^{+42}_{-40} | 28.09 ± 0.12 | 4150^{+236}_{-223} | 18.4 | -9.7 ± 0.2 | t |
| CenA-MM-Dw3 | 202.5852 | -42.1917 | 132.60 ± 9.00 | 0.29 ± 0.19 | | 2063^{+281}_{-328} | 27.94 ± 0.09 | 3873^{+164}_{-157} | 14.8 | -13.1 ± 0.1 | u,t |
| CenA-MM-Dw4 | 200.7607 | -41.7858 | 19.80 ± 0.60 | 0.32 ± 0.05 | -36.8 ± 4.3 | 322^{+27}_{-24} | 28.06 ± 0.14 | 4093^{+273}_{-256} | 18.2 | -9.9 ± 0.2 | t |
| CenA-MM-Dw5 | 199.9684 | -41.9946 | 10.80 ± 0.60 | < 0.20 | | 189^{+21}_{-19} | 27.79 ± 0.19 | 3614^{+330}_{-303} | 19.6 | -8.2 ± 0.2 | t |
| CenA-MM-Dw6 | 201.4885 | -41.0936 | 15.60 ± 0.60 | 0.25 ± 0.08 | 86.9 ± 9.5 | 264^{+24}_{-22} | 28.03 ± 0.11 | 4036^{+210}_{-199} | 18.9 | -9.1 ± 0.2 | t |
| CenA-MM-Dw7 | 201.6190 | -43.5564 | 30.00 ± 3.00 | 0.41 ± 0.08 | -46.1 ± 6.5 | 453^{+67}_{-56} | 28.07 ± 0.15 | 4111^{+294}_{-274} | 18.2 | -9.9 ± 0.3 | t |
| CenA-MM-Dw8 | 203.3921 | -41.6081 | 36.00 ± 3.60 | 0.26 ± 0.22 | | 498 ± 99 | 27.70 ± 0.20 | 3467^{+335}_{-305} | 18.8 | -8.9 ± 0.5 | u |
| CenA-MM-Dw9 | 203.2562 | -42.5303 | 23.40 ± 1.20 | 0.13 ± 0.12 | | 394^{+48}_{-44} | 27.90 ± 0.20 | 3802^{+367}_{-335} | 18.0 | -9.9 ± 0.4 | u |
| CenA-MM-Dw10 | 201.1371 | -44.7353 | 15.00 ± 3.60 | < 0.27 | | 236^{+67}_{-61} | 27.57 ± 0.29 | 3266^{+467}_{-408} | 19.8 | -7.8 ± 1.2 | t |
| CenA-MM-Dw11 | 199.4550 | -42.9269 | 19.80 ± 2.40 | 0.27 ± 0.21 | | 274^{+60}_{-58} | 27.73 ± 0.22 | 3516^{+375}_{-339} | 18.3 | -9.4 ± 0.6 | t |
| dw1240-42 | 190.0083 | -42.4122 | 16.00 | | | 286 | 27.83 ± 0.03 | 3681 ± 51 | 16.9 | -11.0 | v,w |
| dw1241-32 | 190.3625 | -42.8958 | 11.40 | | | 203 | 27.83 ± 0.03 | 3681 ± 51 | 18.1 | -9.7 | v,w |
| dw1243-42 | 190.8042 | -42.4633 | 15.80 | | | 282 | 27.83 ± 0.03 | 3681 ± 51 | 17.4 | -10.4 | v,w |
| dw1243-42b | 190.7958 | -42.4436 | 7.40 | | | 132 | 27.83 ± 0.03 | 3681 ± 51 | 16.8 | -11.0 | v,w |
| dw1251-40 | 192.9833 | -40.3314 | 6.50 | | | 116 | 27.83 ± 0.03 | 3681 ± 51 | 18.7 | -9.1 | v,w |
| dw1252-40 | 193.0042 | -40.3653 | 16.70 | | | 298 | 27.83 ± 0.03 | 3681 ± 51 | 15.8 | -12.1 | v,w |
| dw1252-43 | 193.1042 | -43.0994 | 8.11 | | | 145 | 27.83 ± 0.03 | 3681 ± 51 | 18.5 | -9.3 | v,w |
| dw1257-41 | 194.4375 | -41.3811 | 24.00 | | | 428 | 27.83 ± 0.03 | 3681 ± 51 | 16.2 | -11.6 | v,w |
| dw1258-37 | 194.6208 | -37.1225 | 22.00 | | | 393 | 27.83 ± 0.03 | 3681 ± 51 | 17.8 | -10.0 | v,w |
| dw1301-30 | 195.3667 | -30.1119 | 14.80 | | | 264 | 27.83 ± 0.03 | 3681 ± 51 | 18.1 | -9.7 | v,w |
| dw1302-40 | 195.7042 | -40.1431 | 20.60 | | | 368 | 27.83 ± 0.03 | 3681 ± 51 | 17.4 | -10.4 | v,w |
| dw1306-29 | 196.7000 | -29.8917 | 10.90 | | | 195 | 27.83 ± 0.03 | 3681 ± 51 | 17.5 | -10.3 | v,w |
| dw1312-4218 | 198.0937 | -42.3115 | 6.39 ± 0.66 | | | 114 ± 12 | 27.83 ± 0.03 | 3681 ± 51 | 20.3 | -7.5 | x,w |
| dw1312-4244 | 198.0455 | -42.7455 | 7.51 ± 1.32 | | | 134^{+24}_{-23} | 27.83 ± 0.03 | 3681 ± 51 | 19.8 | -8.1 | x,w |
| dw1312-4246 | 198.0424 | -42.7801 | 6.23 ± 0.70 | | | 111^{+12}_{-14} | 27.83 ± 0.03 | 3681 ± 51 | 18.5 | -9.3 | x,w |
| dw1313-4211 | 198.3928 | -42.1857 | 12.00 ± 0.96 | | | 213 ± 17 | 27.83 ± 0.03 | 3681 ± 51 | 18.1 | -9.7 | x,w |
| dw1313-4214 | 198.4017 | -42.2356 | 9.69 ± 1.19 | | | 174^{+22}_{-21} | 27.83 ± 0.03 | 3681 ± 51 | 18.3 | -9.5 | x,w |
| dw1313-4246 | 198.1786 | -42.7807 | 5.39 ± 0.65 | | | 95 ± 11 | 27.83 ± 0.03 | 3681 ± 51 | 19.9 | -7.9 | x,w |

Table 17 continued on next page

Table 17 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-------------|----------|----------|-------------------------|------------------------|-----------------------|---------------------|-------------------------|----------------------|------|-----------------------|-----|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| dw1314-28 | 198.5083 | -28.2033 | 18.10 | | | 323 | 27.83 ± 0.03 | 3681 ± 51 | 16.7 | -11.1 | v,w |
| dw1314-4142 | 198.6867 | -41.7079 | 3.89 ± 0.25 | | | 70^{+4}_{-5} | 27.83 ± 0.03 | 3681 ± 51 | 20.1 | -7.7 | x,w |
| dw1314-4204 | 198.5340 | -42.0690 | 4.47 ± 0.30 | | | 80 ± 5 | 27.83 ± 0.03 | 3681 ± 51 | 18.8 | -9.1 | x,w |
| dw1314-4230 | 198.5914 | -42.5116 | 5.92 ± 0.72 | | | 106^{+12}_{-14} | 27.83 ± 0.03 | 3681 ± 51 | 18.9 | -8.9 | x,w |
| dw1315-4232 | 198.7624 | -42.5383 | 8.44 ± 1.78 | | | 151 ± 33 | 27.83 ± 0.03 | 3681 ± 51 | 19.0 | -8.9 | x,w |
| dw1315-4309 | 198.8915 | -43.1576 | 6.05 ± 0.76 | | | 109 ± 14 | 27.83 ± 0.03 | 3681 ± 51 | 20.5 | -7.4 | x,w |
| dw1316-4224 | 199.1761 | -42.4015 | 14.34 ± 2.01 | | | 257^{+33}_{-34} | 27.83 ± 0.03 | 3681 ± 51 | 17.6 | -10.3 | x,w |
| dw1318-21 | 199.5167 | -21.8850 | 12.40 | | | 221 | 27.83 ± 0.03 | 3681 ± 51 | 16.9 | -10.9 | v,w |
| dw1318-4233 | 199.5233 | -42.5603 | 16.78 ± 3.95 | | | 304^{+69}_{-75} | 27.83 ± 0.03 | 3681 ± 51 | 18.7 | -9.1 | x,w |
| dw1319-4203 | 199.8386 | -42.0608 | 4.91 ± 0.40 | | | 88 ± 7 | 27.83 ± 0.03 | 3681 ± 51 | 18.7 | -9.1 | x,w |
| dw1321-27 | 200.2833 | -27.7489 | 22.30 | | | 398 | 27.83 ± 0.03 | 3681 ± 51 | 17.8 | -10.0 | v,w |
| dw1322-27 | 200.5250 | -27.5792 | 18.20 | | | 325 | 27.83 ± 0.03 | 3681 ± 51 | 16.8 | -11.0 | v,w |
| dw1322-39 | 200.6558 | -39.9084 | 20.70 | 0.50 | 120.8 | 209 | $27.35^{+0.01}_{-0.06}$ | 2951^{+14}_{-80} | 17.3 | $-10.0^{+0.0}_{-0.1}$ | v,y |
| dw1323-40a | 201.2421 | -40.7622 | 15.20 | 0.10 | 18.8 | 261 | $27.86^{+0.00}_{-0.19}$ | 3733^{+0}_{-313} | 17.5 | $-10.4^{+0.0}_{-0.2}$ | v,y |
| dw1323-40b | 201.0000 | -40.8367 | 17.10 | 0.64 | 168.1 | 194 | $27.96^{+0.13}_{-0.62}$ | 3908^{+241}_{-971} | 18.0 | $-10.0^{+0.1}_{-0.6}$ | v,y |
| dw1325-33 | 201.4208 | -33.0069 | 18.64 | | | 333 | 27.83 ± 0.03 | 3681 ± 51 | 17.9 | -10.0 | z,w |
| dw1326-29 | 201.5167 | -29.4044 | 13.67 | | | 244 | 27.83 ± 0.03 | 3681 ± 51 | 17.5 | -10.4 | z,w |
| dw1326-35 | 201.6833 | -35.0833 | 10.29 | | | 184 | 27.83 ± 0.03 | 3681 ± 51 | 17.7 | -10.1 | z,w |
| dw1326-37 | 201.5917 | -37.3856 | 10.20 | | | 182 | 27.83 ± 0.03 | 3681 ± 51 | 18.1 | -9.7 | v,w |
| dw1328-29 | 202.0500 | -29.4792 | 12.88 | | | 230 | 27.83 ± 0.03 | 3681 ± 51 | 18.0 | -9.9 | z,w |
| dw1329-32 | 202.4917 | -32.4961 | 8.83 | | | 158 | 27.83 ± 0.03 | 3681 ± 51 | 16.2 | -11.6 | z,w |
| dw1329-45 | 202.2917 | -45.1753 | 9.90 | | | 139 | $27.31^{+0.07}_{-0.11}$ | 2897^{+95}_{-143} | 18.3 | -9.0 | v,y |
| dw1330-32 | 202.7250 | -32.3058 | 9.42 | | | 168 | 27.83 ± 0.03 | 3681 ± 51 | 17.8 | -10.0 | z,w |
| dw1330-33 | 202.5167 | -33.8350 | 6.30 | | | 112 | 27.83 ± 0.03 | 3681 ± 51 | 18.9 | -8.9 | z,w |
| dw1330-34 | 202.5083 | -34.0039 | 10.72 | | | 191 | 27.83 ± 0.03 | 3681 ± 51 | 17.7 | -10.1 | z,w |
| dw1330-38 | 202.6708 | -38.1675 | 20.10 | | | 359 | 27.83 ± 0.03 | 3681 ± 51 | 18.5 | -9.3 | v,w |
| dw1331-40 | 202.8583 | -40.2631 | 10.40 | | | 186 | 27.83 ± 0.03 | 3681 ± 51 | 19.5 | -8.3 | v,w |
| dw1334-32 | 203.5208 | -32.1078 | 38.32 | | | 684 | 27.83 ± 0.03 | 3681 ± 51 | 17.5 | -10.4 | z,w |
| dw1335-29 | 203.9454 | -29.7062 | $27.00^{+5.00}_{-7.00}$ | $0.40^{+0.14}_{-0.22}$ | $19.0^{+8.0}_{-17.0}$ | 495^{+144}_{-135} | $28.50^{+0.30}_{-0.10}$ | 5012^{+743}_{-226} | 18.5 | -10.0 ± 0.4 | aa |
| dw1335-33 | 203.8542 | -33.3000 | 39.37 | | | 703 | 27.83 ± 0.03 | 3681 ± 51 | 17.1 | -10.7 | z,w |

Table 17 continued on next page

Table 17 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-------------|----------|----------|--------|------------|----------|-----------|-------------------------|----------------------|------|----------------------|--------|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| dw1336-32 | 204.1375 | -32.3014 | 34.62 | | | 618 | 27.83 ± 0.03 | 3681 ± 51 | 16.6 | -11.3 | z,w |
| dw1336-44 | 204.1833 | -44.4472 | 8.07 | 0.33 | 81.0 | 112 | $27.72^{+0.15}_{-0.19}$ | 3499^{+250}_{-293} | 18.4 | -9.3 | v,y |
| dw1337-26 | 204.3042 | -26.8028 | 34.61 | | | 618 | 27.83 ± 0.03 | 3681 ± 51 | 17.0 | -10.8 | z,w |
| dw1337-33 | 204.2583 | -33.5236 | 25.51 | | | 455 | 27.83 ± 0.03 | 3681 ± 51 | 16.8 | -11.1 | z,w |
| dw1337-41 | 204.4792 | -41.9031 | 18.30 | | | 327 | 27.83 ± 0.03 | 3681 ± 51 | 18.3 | -9.5 | v,w |
| dw1340-30 | 205.0792 | -30.3597 | 16.86 | | | 413 | 28.52 ± 0.03 | 5058^{+70}_{-69} | 17.7 | -10.8 ± 0.3 | z,ab |
| dw1341-33 | 205.3042 | -33.8250 | 35.43 | | | 632 | 27.83 ± 0.03 | 3681 ± 51 | 16.9 | -10.9 | z,w |
| dw1341-43 | 205.4221 | -44.4485 | 20.20 | 0.08 | 0.3 | 332 | $27.74^{+0.00}_{-0.03}$ | 3532^{+0}_{-48} | 17.7 | -10.1 ± 0.0 | v,y |
| dw1342-43 | 205.7029 | -43.8561 | 15.50 | 0.28 | 67.4 | 185 | $27.31^{+0.01}_{-0.22}$ | 2897^{+13}_{-279} | 17.5 | $-9.8^{+0.0}_{-0.2}$ | v,y |
| dw1343-34 | 205.9542 | -34.9353 | 18.90 | | | 337 | 27.83 ± 0.03 | 3681 ± 51 | 18.8 | -9.0 | v,w |
| dw1357-28 | 209.2500 | -28.9208 | 15.60 | | | 278 | 27.83 ± 0.03 | 3681 ± 51 | 18.4 | -9.4 | v,w |
| dw1401-32 | 210.3542 | -32.6294 | 16.80 | | | 300 | 27.83 ± 0.03 | 3681 ± 51 | 17.4 | -10.4 | v,w |
| dw1403-33 | 210.8250 | -33.4039 | 18.80 | | | 336 | 27.83 ± 0.03 | 3681 ± 51 | 17.6 | -10.2 | v,w |
| dw1406-29 | 211.6708 | -29.1361 | 21.10 | | | 377 | 27.83 ± 0.03 | 3681 ± 51 | 18.1 | -9.8 | v,w |
| dw1409-33 | 212.2625 | -33.8278 | 20.00 | | | 357 | 27.83 ± 0.03 | 3681 ± 51 | 17.9 | -9.9 | v,w |
| dw1410-34 | 212.6958 | -34.8686 | 17.70 | | | 316 | 27.83 ± 0.03 | 3681 ± 51 | 17.0 | -10.9 | v,w |
| dw1413-34 | 213.2833 | -34.3925 | 10.60 | | | 189 | 27.83 ± 0.03 | 3681 ± 51 | 19.1 | -8.8 | v,w |
| dw1415-32 | 213.9208 | -32.5725 | 9.20 | | | 164 | 27.83 ± 0.03 | 3681 ± 51 | 17.8 | -10.0 | v,w |
| ESO 269-066 | 198.2883 | -44.8900 | 40.60 | | | 752 | 27.91 | 3819 | 14.0 | -13.9 | l,ac,v |
| KK 197 | 200.5075 | -42.5356 | 44.40 | | | 826 | 27.92 ± 0.02 | 3837^{+36}_{-35} | 15.0 | -13.0 | v,ad,w |
| KK 203 | 201.8671 | -45.3525 | 19.80 | | | 362 | 27.88 ± 0.14 | 3767^{+251}_{-235} | 16.2 | -11.7 | ae,ad |
| KK 211 | 205.5230 | -45.2050 | 21.80 | | | 389 | 27.83 ± 0.08 | 3681^{+138}_{-133} | 15.5 | -12.3 | l,v,w |
| KK 221 | 207.1933 | -46.9969 | 23.80 | | | 441 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 16.4 | -11.5 | r,l,w |
| KKs 54 | 200.3825 | -31.8861 | 32.70 | 0.21 | 96.8 | 528 | $27.87^{+0.01}_{-0.12}$ | 3750^{+17}_{-202} | 17.5 | -10.4 ± 0.1 | r,y |
| KKs 55 | 200.5517 | -42.7308 | 36.40 | | | 680 | 27.93 ± 0.04 | 3855^{+72}_{-70} | 15.5 | -12.4 | v,w |
| KKs 57 | 205.4087 | -42.5819 | 12.00 | | | 223 | 27.92 ± 0.25 | 3837^{+468}_{-417} | 17.3 | -10.6 | ae,v |
| KKs 58 | 206.5017 | -36.3285 | 26.40 | 0.14 | | 398 | $27.63^{+0.12}_{-0.01}$ | 3357^{+191}_{-15} | 15.7 | -11.9 ± 0.1 | r,y |

Table 17 continued on next page

Table 17 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------|-----|-----|--------|------------|----------|-----------|-------------|-----|-----|-------|-----|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |

NOTE— Citations: (a) [Martínez-Delgado et al. \(2018\)](#) (b) [Karachentsev et al. \(2020\)](#) (c) [Žemaitis et al. \(2023\)](#) (d) [Karachentsev et al. \(2006\)](#) (e) [Okamoto et al. \(2019\)](#) (f) [Bell et al. \(2022\)](#) (g) [Casey et al. \(2023\)](#) (h) [Jacobs et al. \(2009\)](#) (i) [Mutlu-Pakdil et al. \(2024\)](#) (j) [Martinez-Delgado et al. \(2024\)](#) (k) [Radburn-Smith et al. \(2011\)](#) (l) [Karachentsev et al. \(2013b\)](#) (m) [Karachentsev et al. \(2021\)](#) (n) [Okamoto et al. \(2024\)](#) (o) [Mutlu-Pakdil et al. \(2022\)](#) (p) [Toloba et al. \(2016\)](#) (q) [Da Costa et al. \(2009\)](#) (r) [Jerjen et al. \(2000a\)](#) (s) [Carlin et al. \(2021\)](#) (t) [Crnojević et al. \(2019\)](#) (u) [Crnojević et al. \(2016b\)](#) (v) [Müller et al. \(2017\)](#) (w) [Tully et al. \(2009b\)](#) (x) [Taylor et al. \(2018\)](#) (y) [Müller et al. \(2019\)](#) (z) [Müller et al. \(2015\)](#) (aa) [Carrillo et al. \(2017\)](#) (ab) [Müller et al. \(2018\)](#) (ac) [Karachentsev et al. \(2013a\)](#) (ad) [Müller et al. \(2021\)](#) (ae) [Tully et al. \(2009a\)](#)

Table 18. Properties of Local Volume dwarf galaxies

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|-------------------|----------|----------|--------------------|-----------------------|--------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| Donatiello I | 127.6509 | -28.0854 | | | | | | | |
| KKH 22 | 135.4981 | 13.5689 | 30.0 ± 10.0 | | | | | | a |
| F8D1 | 144.6144 | 40.9494 | | | | | | | |
| IKN | 141.8750 | 42.1954 | | | | | | | |
| M81-dw J0954+6821 | 142.9545 | 41.1922 | | | | | | | |
| dw0910+7326 | 139.6737 | 35.5541 | | | | | | | |
| DDO 6 | 119.3906 | -83.8756 | 295.4 ± 5.0 | | | | | | b |
| Donatiello III | 217.0942 | -85.9995 | | | | | | | |
| Donatiello IV | 112.3100 | -84.4617 | | | | | | | |
| Donatiello V | 74.5875 | -84.3211 | | | | | | | |
| Donatiello VI | 85.8746 | -83.6417 | | | | | | | |
| Donatiello VII | 354.4986 | -86.1494 | | | | | | | |
| Donatiello VIII | 101.6733 | -82.9763 | | | | | | | |
| Donatiello IX | 92.0419 | -86.1057 | | | | | | | |
| ESO 540-032 | 121.0018 | -82.7746 | 227.7 ± 0.9 | | | | | | c |
| KDG 2 | 119.7801 | -80.9344 | 223.5 ± 2.7 | | | | | | c |
| LV J0055-2310 | 135.1120 | -85.9906 | 249.6 ± 5.0 | | | | | | b |
| NGC 247 | 113.9473 | -83.5571 | 153.0 ± 5.0 | | | | | | b |
| NGC253-SNFC-dw1 | 75.1341 | -89.1619 | | | | | | | |
| dw0036m2828 | 9.9587 | -86.4372 | | | | | | | |
| Scl-MM-Dw1 | 73.3721 | -88.8665 | | | | | | | |
| Scl-MM-Dw2 | 116.6460 | -87.6073 | | | | | | | |
| Scl-MM-Dw3 | 105.6223 | -86.6813 | | | | | | | |
| Scl-MM-Dw4 | 140.9483 | -88.2622 | | | | | | | |
| Scl-MM-Dw5 | 93.6401 | -89.5405 | | | | | | | |
| Sculptor-dE1 | 52.7443 | -83.3440 | | | | | | | |
| MADCASH-1 | 141.7945 | 46.7166 | | | | | | | |

Table 18 continued on next page

Table 18 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|--------------|----------|---------|--------------------|-----------------------|--------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| MADCASH-2 | 167.0584 | 77.8863 | | | | | | | |
| CenA-MM-Dw1 | 310.6219 | 20.3984 | | | | | | | |
| CenA-MM-Dw2 | 310.5702 | 20.4265 | | | | | | | |
| CenA-MM-Dw3 | 310.5911 | 20.1007 | | | | | | | |
| CenA-MM-Dw4 | 309.2226 | 20.6996 | | | | | | | |
| CenA-MM-Dw5 | 308.5696 | 20.5656 | | | | | | | |
| CenA-MM-Dw6 | 309.9032 | 21.3104 | | | | | | | |
| CenA-MM-Dw7 | 309.6291 | 18.8592 | | | | | | | |
| CenA-MM-Dw8 | 311.3265 | 20.5759 | | | | | | | |
| CenA-MM-Dw9 | 311.0516 | 19.6849 | | | | | | | |
| CenA-MM-Dw10 | 309.0960 | 17.7398 | | | | | | | |
| CenA-MM-Dw11 | 308.0565 | 19.6822 | | | | | | | |
| dw1240-42 | 300.6862 | 20.4098 | | | | | | | |
| dw1241-32 | 300.9863 | 19.9382 | | | | | | | |
| dw1243-42 | 301.3146 | 20.3826 | | | | | | | |
| dw1243-42b | 301.3073 | 20.4021 | | | | | | | |
| dw1251-40 | 303.0342 | 22.5403 | | | | | | | |
| dw1252-40 | 303.0513 | 22.5063 | | | | | | | |
| dw1252-43 | 303.1218 | 19.7719 | | | | | | | |
| dw1257-41 | 304.2042 | 21.4750 | | | | | | | |
| dw1258-37 | 304.4908 | 25.7279 | | | | | | | |
| dw1301-30 | 305.5096 | 32.7096 | | | | | | | |
| dw1302-40 | 305.2884 | 22.6766 | | | | | | | |
| dw1306-29 | 306.8960 | 32.8618 | | | | | | | |
| dw1312-4218 | 307.0592 | 20.3924 | | | | | | | |
| dw1312-4244 | 306.9818 | 19.9631 | | | | | | | |
| dw1312-4246 | 306.9762 | 19.9287 | | | | | | | |
| dw1313-4211 | 307.3066 | 20.4980 | | | | | | | |
| dw1313-4214 | 307.3087 | 20.4477 | | | | | | | |
| dw1313-4246 | 307.0821 | 19.9195 | | | | | | | |

Table 18 *continued on next page*

Table 18 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|-------------|----------|---------|--------------------|-----------------------|-------------------------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| dw1314-28 | 308.9669 | 34.4035 | | | | | | | |
| dw1314-4142 | 307.5874 | 20.9531 | | | | | | | |
| dw1314-4204 | 307.4295 | 20.6044 | | | | | | | |
| dw1314-4230 | 307.4300 | 20.1598 | | | | | | | |
| dw1315-4232 | 307.5609 | 20.1212 | | | | | | | |
| dw1315-4309 | 307.5963 | 19.4956 | | | | | | | |
| dw1316-4224 | 307.8991 | 20.2265 | | | | | | | |
| dw1318-21 | 311.0728 | 40.5654 | | | | | | | |
| dw1318-4233 | 308.1521 | 20.0411 | | | | | | | |
| dw1319-4203 | 308.4591 | 20.5112 | | | | | | | |
| dw1321-27 | 310.9232 | 34.6617 | | | | | | | |
| dw1322-27 | 311.2103 | 34.7992 | | | | | | | |
| dw1322-39 | 309.4021 | 22.5712 | 656.3 ± 9.7 | | $-1.79^{+0.22}_{-0.13}$ | | | | d |
| dw1323-40a | 309.7555 | 21.6649 | 450.0 ± 14.2 | | $-1.95^{+0.30}_{-0.14}$ | | | | d |
| dw1323-40b | 309.5492 | 21.6163 | 497.0 ± 12.4 | | $-1.84^{+0.01}_{-0.32}$ | | | | d |
| dw1325-33 | 311.1638 | 29.3168 | | | | | | | |
| dw1326-29 | 311.9133 | 32.8627 | | | | | | | |
| dw1326-35 | 311.0478 | 27.2316 | | | | | | | |
| dw1326-37 | 310.5785 | 24.9670 | | | | | | | |
| dw1328-29 | 312.4437 | 32.7127 | | | | | | | |
| dw1329-32 | 312.2798 | 29.6753 | | | | | | | |
| dw1329-45 | 309.8775 | 17.1871 | | | | | | | |
| dw1330-32 | 312.5413 | 29.8285 | | | | | | | |
| dw1330-33 | 312.0423 | 28.3525 | | | | | | | |
| dw1330-34 | 312.0021 | 28.1872 | | | | | | | |
| dw1330-38 | 311.3689 | 24.0605 | | | | | | | |
| dw1331-40 | 311.1458 | 21.9699 | | | | | | | |
| dw1334-32 | 313.3464 | 29.9001 | | | | | | | |
| dw1335-29 | 314.3129 | 32.1837 | | | | | | | |
| dw1335-33 | 313.4000 | 28.6762 | | | | | | | |

Table 18 *continued on next page*

Table 18 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|-------------|----------|---------|--------------------|-----------------------|-------------------------|---------------------------------|----------------------|----------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | mas yr ⁻¹ | mas yr ⁻¹ | |
| dw1336-32 | 313.8924 | 29.6084 | | | | | | | |
| dw1336-44 | 311.3923 | 17.6792 | | | | | | | |
| dw1337-26 | 315.4115 | 34.9572 | | | | | | | |
| dw1337-33 | 313.7265 | 28.3906 | | | | | | | |
| dw1337-41 | 312.1196 | 20.1380 | | | | | | | |
| dw1340-30 | 315.2788 | 31.3374 | | | | | | | |
| dw1341-33 | 314.6207 | 27.9144 | | | | | | | |
| dw1341-43 | 312.3023 | 17.5070 | 636.4 ± 14.1 | | $-1.79^{+0.03}_{-0.33}$ | | | | d |
| dw1342-43 | 312.6372 | 18.0454 | 510.3 ± 8.1 | | $-1.69^{+0.13}_{-0.19}$ | | | | d |
| dw1343-34 | 314.9328 | 26.7129 | | | | | | | |
| dw1357-28 | 319.8250 | 31.7912 | | | | | | | |
| dw1401-32 | 319.5896 | 27.9687 | | | | | | | |
| dw1403-33 | 319.7465 | 27.1106 | | | | | | | |
| dw1406-29 | 322.0981 | 30.9199 | | | | | | | |
| dw1409-33 | 320.8652 | 26.3268 | | | | | | | |
| dw1410-34 | 320.8564 | 25.2262 | | | | | | | |
| dw1413-34 | 321.5384 | 25.5103 | | | | | | | |
| dw1415-32 | 322.8070 | 27.0272 | | | | | | | |
| ESO 269-066 | 306.9690 | 17.8115 | 784.0 ± 31.0 | | | | | | e |
| KK 197 | 308.9215 | 19.9801 | 642.7 ± 2.9 | | $-1.15^{+0.12}_{-0.01}$ | | | | d |
| KK 203 | 309.5406 | 17.0564 | 305.9 ± 9.5 | | $-1.75^{+0.11}_{-0.28}$ | | | | d |
| KK 211 | 312.2146 | 16.7518 | | | | | | | |
| KK 221 | 312.9878 | 14.7523 | | | | | | | |
| KKs 54 | 310.3489 | 30.5519 | 621.3 ± 10.6 | | $-1.81^{+0.07}_{-0.26}$ | | | | d |
| KKs 55 | 308.9295 | 19.7823 | 550.0 ± 23.7 | | $-1.14^{+0.04}_{-0.30}$ | | | | d |
| KKs 57 | 312.6935 | 19.3364 | 511.3 ± 16.8 | | $-1.90^{+0.07}_{-0.27}$ | | | | d |
| KKs 58 | 315.0599 | 25.2548 | 476.5 ± 5.2 | | $-1.49^{+0.07}_{-0.09}$ | | | | d |

NOTE— Citations: (a) [Karachentsev et al. \(2020\)](#) (b) [Westmeier et al. \(2017\)](#) (c) [Bouchard et al. \(2005\)](#) (d) [Müller et al. \(2021\)](#) (e) [Jerjen et al. \(2000b\)](#)

Table 19. Properties of Local Volume dwarf galaxies

| Name | M_\star M_\odot | $M_{\text{dyn}}(r_{1/2})$ M_\odot | $\Upsilon_{1/2}$ | M_{HI} M_\odot | M_{HI}/M_\star | Ref |
|-------------------|------------------------|--|------------------|------------------------------|-------------------------|-----|
| Donatiello I | 3.6×10^5 | | | $< 3.9 \times 10^5$ | < 1 | a |
| KKH 22 | 1.3×10^7 | | | $< 2.2 \times 10^6$ | < 0.2 | b |
| F8D1 | 6.7×10^7 | | | | | c |
| IKN | 8.9×10^7 | | | | | d |
| M81-dw J0954+6821 | 1.2×10^5 | | | | | e |
| dw0910+7326 | 9.7×10^6 | | | | | f |
| DDO 6 | 2.2×10^7 | | | 1.0×10^7 | 0.5 | g |
| Donatiello III | 6.3×10^5 | | | $< 1.8 \times 10^6$ | < 3 | h |
| Donatiello IV | 4.8×10^5 | | | $< 3.4 \times 10^6$ | < 7 | h |
| Donatiello V | 1.6×10^5 | | | | | i |
| Donatiello VI | 3.3×10^5 | | | | | i |
| Donatiello VII | 1.4×10^5 | | | | | i |
| Donatiello VIII | 5.4×10^5 | | | | | i |
| Donatiello IX | 2.6×10^5 | | | | | i |
| ESO 540-032 | 2.2×10^7 | | | 2.7×10^6 | 0.1 | j |
| KDG 2 | 9.0×10^6 | | | 9.8×10^5 | 0.1 | j |
| LV J0055-2310 | 1.9×10^6 | | | 4.3×10^6 | 2.3 | k,g |
| NGC 247 | 6.0×10^9 | | | 2.0×10^9 | 0.3 | g |
| NGC253-SNFC-dw1 | 8.2×10^6 | | | | | l |
| dw0036m2828 | 5.4×10^5 | | | $< 1.6 \times 10^5$ | < 0.3 | h |
| Scl-MM-Dw1 | 5.4×10^5 | | | $< 2.9 \times 10^6$ | < 5 | m,n |
| Scl-MM-Dw2 | 1.5×10^7 | | | $< 1.5 \times 10^5$ | < 0.010 | o |
| Scl-MM-Dw3 | 1.3×10^5 | | | $< 2.8 \times 10^6$ | < 21.0 | m |
| Scl-MM-Dw4 | 1.4×10^5 | | | $< 4.0 \times 10^6$ | < 29.0 | m |
| Scl-MM-Dw5 | 1.7×10^5 | | | $< 3.6 \times 10^6$ | < 20.9 | m |
| Sculptor-dE1 | 6.8×10^6 | | | $< 9.8 \times 10^4$ | < 0.01 | j,p |
| MADCASH-1 | 2.3×10^5 | | | $< 7.1 \times 10^4$ | < 0.3 | q |

Table 19 continued on next page

Table 19 (*continued*)

| Name | M_{\star} M_{\odot} | $M_{\text{dyn}}(r_{1/2})$ M_{\odot} | $\Upsilon_{1/2}$ | M_{HI} M_{\odot} | M_{HI}/M_{\star} | Ref |
|--------------|----------------------------|--|------------------|--------------------------------|---------------------------|-----|
| MADCASH-2 | 7.8×10^5 | | | $< 4.9 \times 10^4$ | < 0.06 | q |
| CenA-MM-Dw1 | 5.7×10^7 | | | $< 5.5 \times 10^6$ | < 0.10 | r |
| CenA-MM-Dw2 | 1.3×10^6 | | | $< 6.2 \times 10^6$ | < 5 | r |
| CenA-MM-Dw3 | 3.0×10^7 | | | $< 4.3 \times 10^6$ | < 0.1 | s,r |
| CenA-MM-Dw4 | 1.6×10^6 | | | $< 5.1 \times 10^6$ | < 3 | r |
| CenA-MM-Dw5 | 3.3×10^5 | | | $< 3.8 \times 10^6$ | < 11.7 | r |
| CenA-MM-Dw6 | 7.5×10^5 | | | $< 4.6 \times 10^6$ | < 6 | r |
| CenA-MM-Dw7 | 1.6×10^6 | | | $< 6.8 \times 10^6$ | < 4 | r |
| CenA-MM-Dw8 | 6.2×10^5 | | | $< 2.3 \times 10^6$ | < 4 | s |
| CenA-MM-Dw9 | 1.6×10^6 | | | $< 4.4 \times 10^6$ | < 3 | s |
| CenA-MM-Dw10 | 2.3×10^5 | | | $< 4.0 \times 10^6$ | < 17.7 | r |
| CenA-MM-Dw11 | 9.8×10^5 | | | $< 3.1 \times 10^6$ | < 3 | r |
| dw1240-42 | 4.2×10^6 | | | | | t |
| dw1241-32 | 1.3×10^6 | | | | | t |
| dw1243-42 | 2.5×10^6 | | | | | t |
| dw1243-42b | 4.3×10^6 | | | | | t |
| dw1251-40 | 7.7×10^5 | | | | | t |
| dw1252-40 | 1.2×10^7 | | | | | t |
| dw1252-43 | 9.1×10^5 | | | | | t |
| dw1257-41 | 7.5×10^6 | | | | | t |
| dw1258-37 | 1.8×10^6 | | | | | t |
| dw1301-30 | 1.3×10^6 | | | | | t |
| dw1302-40 | 2.4×10^6 | | | | | t |
| dw1306-29 | 2.2×10^6 | | | | | t |
| dw1312-4218 | 1.7×10^5 | | | | | u |
| dw1312-4244 | 2.9×10^5 | | | | | u |
| dw1312-4246 | 9.1×10^5 | | | | | u |
| dw1313-4211 | 1.3×10^6 | | | | | u |
| dw1313-4214 | 1.1×10^6 | | | | | u |
| dw1313-4246 | 2.5×10^5 | | | | | u |

Table 19 *continued on next page*

Table 19 (*continued*)

| Name | M_\star M_\odot | $M_{\text{dyn}}(r_{1/2})$ M_\odot | $\Upsilon_{1/2}$ | M_{HI} M_\odot | M_{HI}/M_\star | Ref |
|-------------|------------------------|--|------------------|------------------------------|-------------------------|-------|
| dw1314-28 | 4.8×10^6 | | | | | t |
| dw1314-4142 | 2.0×10^5 | | | | | u |
| dw1314-4204 | 7.2×10^5 | | | | | u |
| dw1314-4230 | 6.3×10^5 | | | | | u |
| dw1315-4232 | 6.0×10^5 | | | | | u |
| dw1315-4309 | 1.5×10^5 | | | | | u |
| dw1316-4224 | 2.2×10^6 | | | | | u |
| dw1318-21 | 3.8×10^6 | | | | | t |
| dw1318-4233 | 7.4×10^5 | | | | | u |
| dw1319-4203 | 7.5×10^5 | | | | | u |
| dw1321-27 | 1.7×10^6 | | | | | t |
| dw1322-27 | 4.4×10^6 | | | | | t |
| dw1322-39 | 1.8×10^6 | | | | | t,v,w |
| dw1323-40a | 2.4×10^6 | | | | | t,v,w |
| dw1323-40b | 1.7×10^6 | | | | | t,v,w |
| dw1325-33 | 1.7×10^6 | | | | | x |
| dw1326-29 | 2.4×10^6 | | | | | x |
| dw1326-35 | 2.0×10^6 | | | | | x |
| dw1326-37 | 1.3×10^6 | | | | | t |
| dw1328-29 | 1.5×10^6 | | | | | x |
| dw1329-32 | 7.7×10^6 | | | | | x |
| dw1329-45 | 6.6×10^5 | | | | | t |
| dw1330-32 | 1.7×10^6 | | | | | x |
| dw1330-33 | 6.4×10^5 | | | | | x |
| dw1330-34 | 2.0×10^6 | | | | | x |
| dw1330-38 | 9.4×10^5 | | | | | t |
| dw1331-40 | 3.7×10^5 | | | | | t |
| dw1334-32 | 2.4×10^6 | | | | | x |
| dw1335-29 | 1.7×10^6 | | | | | y |
| dw1335-33 | 3.4×10^6 | | | | | x |

Table 19 *continued on next page*

Table 19 (*continued*)

| Name | M_{\star} M_{\odot} | $M_{\text{dyn}}(r_{1/2})$ M_{\odot} | $\Upsilon_{1/2}$ | M_{HI} M_{\odot} | M_{HI}/M_{\star} | Ref |
|-------------|----------------------------|--|------------------|--------------------------------|---------------------------|---------|
| dw1336-32 | 5.6×10^6 | | | | | x |
| dw1336-44 | 9.0×10^5 | | | | | t |
| dw1337-26 | 3.7×10^6 | | | | | x |
| dw1337-33 | 4.6×10^6 | | | | | x |
| dw1337-41 | 1.1×10^6 | | | | | t |
| dw1340-30 | 3.5×10^6 | | | | | x,z |
| dw1341-33 | 3.9×10^6 | | | | | x |
| dw1341-43 | 1.8×10^6 | | | | | t,w |
| dw1342-43 | 1.4×10^6 | | | | | t,w |
| dw1343-34 | 6.7×10^5 | | | | | t |
| dw1357-28 | 9.7×10^5 | | | | | t |
| dw1401-32 | 2.6×10^6 | | | | | t |
| dw1403-33 | 2.1×10^6 | | | | | t |
| dw1406-29 | 1.4×10^6 | | | | | t |
| dw1409-33 | 1.6×10^6 | | | | | t |
| dw1410-34 | 3.8×10^6 | | | | | t |
| dw1413-34 | 5.5×10^5 | | | | | t |
| dw1415-32 | 1.8×10^6 | | | | | t |
| ESO 269-066 | 6.2×10^7 | | | $< 8.2 \times 10^4$ | < 0.001 | aa,ab,t |
| KK 197 | 2.6×10^7 | | | | | t,w |
| KK 203 | 8.2×10^6 | | | | | w |
| KK 211 | 1.4×10^7 | | | | | k,t |
| KK 221 | 6.9×10^6 | | | | | p,k |
| KKs 54 | 2.5×10^6 | | | | | p,w |
| KKs 55 | 1.6×10^7 | | | | | t,w |
| KKs 57 | 3.0×10^6 | | | | | t,w |
| KKs 58 | 1.0×10^7 | | | | | p,v,w |

Table 19 *continued on next page*

Table 19 (*continued*)

| Name | M_{\star} | $M_{\text{dyn}}(r_{1/2})$ | $\Upsilon_{1/2}$ | M_{HI} | M_{HI}/M_{\star} | Ref |
|------|-------------|---------------------------|------------------|-----------------|---------------------------|-----|
| | M_{\odot} | M_{\odot} | | M_{\odot} | | |

NOTE—Citations: (a) Martínez-Delgado et al. (2018) (b) Karachentsev et al. (2020) (c) Žemaitis et al. (2023) (d) Okamoto et al. (2019) (e) Bell et al. (2022) (f) Casey et al. (2023) (g) Westmeier et al. (2017) (h) Mutlu-Pakdil et al. (2024) (i) Martinez-Delgado et al. (2024) (j) Bouchard et al. (2005) (k) Karachentsev et al. (2013b) (l) Okamoto et al. (2024) (m) Mutlu-Pakdil et al. (2022) (n) Sand et al. (2014) (o) Toloba et al. (2016) (p) Jerjen et al. (2000a) (q) Carlin et al. (2021) (r) Crnojević et al. (2019) (s) Crnojević et al. (2016b) (t) Müller et al. (2017) (u) Taylor et al. (2018) (v) Müller et al. (2019) (w) Müller et al. (2021) (x) Müller et al. (2015) (y) Carrillo et al. (2017) (z) Müller et al. (2018) (aa) Jerjen et al. (2000b) (ab) Karachentsev et al. (2013a)

Table 20. Properties of globular clusters with dwarf galaxy hosts

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-----------------|---------------------|------------|-------------|---------------|--|-----------|----------------|
| And I-GC1 | | 00:45:42.9 | +38:01:53.8 | Andromeda I | Grebel et al. (2000) Caldwell et al. (2017) | | Star Cluster |
| And XXV-GC1 | Gep I | 00:30:10.6 | +46:51:05.6 | Andromeda XXV | Cusano et al. (2016) | Cand. | |
| Aquarius-GC1 | | 20:46:51.8 | -12:50:53.0 | Aquarius | Greggio et al. (1993) | Cand. | |
| CenA-MM-Dw1-GC1 | | 13:30:10.3 | -41:54:16.8 | CenA-MM-Dw1 | Crnojević et al. (2019) | | Star Cluster |
| CenA-MM-Dw1-GC2 | | 13:30:18.4 | -41:53:27.1 | CenA-MM-Dw1 | Crnojević et al. (2019) | | Star Cluster |
| CenA-MM-Dw1-GC3 | | 13:30:12.1 | -41:53:02.5 | CenA-MM-Dw1 | Crnojević et al. (2019) | | Star Cluster |
| CenA-MM-Dw1-NSC | | 13:30:14.0 | -41:53:31.3 | CenA-MM-Dw1 | Crnojević et al. (2019) | | Star Cluster |
| CenA-MM-Dw3-NSC | H21-360500 | 13:30:20.8 | -42:11:30.8 | CenA-MM-Dw3 | Crnojević et al. (2019) | | Star Cluster |
| DDO 190-GC1 | U9240-3-4557 | 14:24:45.0 | +44:31:36.1 | DDO 190 | Sharina et al. (2005) Forbes et al. (2024) | | Star Cluster |
| Eri II-GC | | 03:44:22.4 | -43:32:00.1 | Eridanus II | Koposov et al. (2015a) Crnojević et al. (2016a) | | Star Cluster |
| ESO 006-001-GC | | 08:19:25.0 | -85:08:29.2 | ESO 006-001 | Makarova et al. (2023) | | Star Cluster |
| ESO 269-066-GC3 | | 13:13:08.8 | -44:53:22.6 | ESO 269-066 | Georgiev et al. (2009) | | Star Cluster |
| F8D1-GC1 | | 09:44:39.4 | +67:26:05.9 | F8D1 | Caldwell et al. (1998) | | Star Cluster |
| Fornax-GC2 | | 02:38:44.1 | -34:48:30.0 | Fornax | Shapley (1938b) | | Star Cluster |
| Fornax-GC3 | NGC 1049 Hodge 3 | 02:39:48.1 | -34:15:30.0 | Fornax | Shapley (1938b) | | Star Cluster |
| Fornax-GC4 | | 02:40:07.6 | -34:32:10.0 | Fornax | Shapley (1938b) | | Star Cluster |
| Fornax-GC6 | | 02:40:06.9 | -34:25:19.2 | Fornax | Shapley (1938b) Wang et al. (2019b) | | Star Cluster |
| Fornax-GC1 | | 02:37:01.9 | -34:11:01.0 | Fornax | Hodge (1961) | | Star Cluster |
| Fornax-GC5 | | 02:42:21.1 | -34:06:07.0 | Fornax | Hodge (1961) | | Star Cluster |
| IKN-GC1 | IKN-1 | 10:08:07.1 | +68:23:36.7 | IKN | Georgiev et al. (2009) | | Star Cluster |
| IKN-GC2 | IKN-2 | 10:08:10.8 | +68:24:05.6 | IKN | Georgiev et al. (2009) | | Star Cluster |
| IKN-GC3 | IKN-3 | 10:08:05.3 | +68:24:33.8 | IKN | Georgiev et al. (2009) | | Star Cluster |

Table 20 continued on next page

Table 20 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------------|--------------|------------|-------------|--------|---|-----------|----------------|
| IKN-GC4 | IKN-4 | 10:08:04.8 | +68:24:53.7 | IKN | Georgiev et al. (2009) | | Star Cluster |
| IKN-GC5 | IKN-5 | 10:08:05.5 | +68:24:58.0 | IKN | Georgiev et al. (2009) | | Star Cluster |
| KK 197-GC1 | KK 197-01 | 13:21:59.8 | -42:32:06.5 | KK 197 | Georgiev et al. (2009) | | Star Cluster |
| KK 197-GC2 | KK 197-02 | 13:22:02.0 | -42:32:08.1 | KK 197 | Georgiev et al. (2009) | | Star Cluster |
| | KK 197-NSC | | | | | | |
| KK 197-GC3 | KK 197-03 | 13:22:02.5 | -42:32:13.8 | KK 197 | Georgiev et al. (2009) | | Star Cluster |
| KK 211-GC-3-149 | | 13:42:05.5 | -45:12:18.0 | KK 211 | Sharina et al. (2005) | | Star Cluster |
| KK 211-GC-3-917 | | 13:42:07.9 | -45:12:28.8 | KK 211 | Sharina et al. (2005) | | Star Cluster |
| KK 221-GC-24n | | 13:48:43.6 | -46:58:59.0 | KK 221 | | | Star Cluster |
| KK 221-GC-27n | | 13:48:39.0 | -46:59:49.0 | KK 221 | | | |
| KK 221-GC-2-1090 | | 13:48:49.4 | -47:00:14.0 | KK 221 | Sharina et al. (2005) | | Star Cluster |
| KK 221-GC-2-608 | KK 221-2-608 | 13:48:54.9 | -47:00:10.1 | KK 221 | Sharina et al. (2005) | | Star Cluster |
| KK 221-GC-2-883 | | 13:48:52.8 | -47:00:19.1 | KK 221 | Sharina et al. (2005) | | Star Cluster |
| KK 221-GC-2-966 | | 13:48:50.3 | -47:00:10.1 | KK 221 | Sharina et al. (2005) | | Star Cluster |
| KK 221-GC-3-1062 | | 13:48:48.2 | -46:59:46.0 | KK 221 | Sharina et al. (2005) | Cand. | |
| KKH 22-GC1 | | 03:44:50.5 | +72:03:56.4 | KKH 22 | Karachentsev et al. (2020) | | Star Cluster |
| KKs 3-GC1 | | 02:24:44.4 | -73:30:51.0 | KKS 3 | Karachentsev et al. (2015b) | | Star Cluster |
| KKs 55-GC1 | | 13:22:12.4 | -42:45:11.8 | KKs 55 | Georgiev et al. (2009) | | Star Cluster |
| KKs 55-GC2 | | 13:22:13.9 | -42:44:05.0 | KKs 55 | Müller et al. (2021) | | Star Cluster |
| KKs 58-NSC | | 13:46:00.8 | -36:19:44.0 | KKs 58 | Fahrion et al. (2020) | | Star Cluster |
| Hodge 4 | SL 556 | 06:08:36.1 | -73:50:07.9 | LMC | Hodge (1960) | | Star Cluster |
| | LW 237 | | | | | | |
| Hodge 6 | SL 668 | 05:42:17.3 | -71:35:27.5 | LMC | Hodge (1960) | | Star Cluster |
| | LW 274 | | | | | | |
| Hodge 11 | SL 868 | 06:14:22.9 | -69:50:50.6 | LMC | Hodge (1960) | | Star Cluster |
| | LW 437 | | | | | | |
| Hodge 301 | | 05:38:17.3 | -69:04:00.0 | LMC | | | Star Cluster |
| NGC 1466 | SL1 | 03:44:32.8 | -71:40:15.5 | LMC | | | Star Cluster |
| | LW1 | | | | | | |
| NGC 1651 | SL 7 | 04:37:32.2 | -70:35:10.8 | LMC | | | Star Cluster |

Table 20 *continued on next page*

Table 20 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------|------------|------------|-------------|------|----------------------|-----------|----------------|
| | LW 12 | | | | | | |
| NGC 1751 | SL 89 | 04:54:12.0 | -69:48:27.1 | LMC | | | Star Cluster |
| NGC 1754 | SL 91 | 04:54:18.9 | -70:26:31.0 | LMC | | | Star Cluster |
| NGC 1755 | SL 99 | 04:55:15.3 | -68:12:20.2 | LMC | | | Star Cluster |
| NGC 1783 | SL 148 | 04:59:09.0 | -65:59:13.8 | LMC | | | Star Cluster |
| NGC 1786 | SL 149 | 04:59:08.0 | -67:44:43.9 | LMC | | | Star Cluster |
| NGC 1806 | SL 184 | 05:02:11.0 | -67:59:17.0 | LMC | | | Star Cluster |
| NGC 1831 | SL 227 | 05:06:16.4 | -64:55:06.1 | LMC | | | Star Cluster |
| | LW 133 | | | | | | |
| NGC 1835 | SL 215 | 05:05:06.7 | -69:24:15.0 | LMC | | | Star Cluster |
| NGC 1841 | ESO 4SC-15 | 04:45:22.7 | -83:59:55.6 | LMC | | | Star Cluster |
| NGC 1846 | SL 243 | 05:07:35.0 | -67:27:39.0 | LMC | | | Star Cluster |
| NGC 1850 | | 05:08:45.2 | -68:45:44.7 | LMC | | | Star Cluster |
| NGC 1856 | SL 271 | 05:09:30.1 | -69:07:43.9 | LMC | | | Star Cluster |
| NGC 1866 | SL 319 | 05:13:38.6 | -65:27:52.8 | LMC | | | Star Cluster |
| | LW 163 | | | | | | |
| NGC 1898 | SL 350 | 05:16:41.6 | -69:39:24.1 | LMC | | | Star Cluster |
| NGC 1916 | SL 361 | 05:18:37.5 | -69:24:25.0 | LMC | | | Star Cluster |
| NGC 1928 | SL 405 | 05:20:57.5 | -69:28:41.6 | LMC | | | Star Cluster |
| | HS 243 | | | | | | |
| NGC 1939 | SL 414 | 05:21:26.4 | -69:56:58.4 | LMC | | | Star Cluster |
| NGC 1978 | SL 501 | 05:28:44.7 | -66:14:10.9 | LMC | | | Star Cluster |
| NGC 2005 | SL 518 | 05:30:10.1 | -69:45:10.6 | LMC | | | Star Cluster |
| NGC 2019 | SL 554 | 05:31:56.0 | -70:09:36.0 | LMC | | | Star Cluster |
| NGC 2121 | SL 725 | 05:48:13.2 | -71:28:46.9 | LMC | | | Star Cluster |
| | LW 303 | | | | | | |
| NGC 2155 | SL 803 | 05:58:32.1 | -65:28:38.6 | LMC | | | Star Cluster |
| | LW 347 | | | | | | |
| NGC 2173 | SL 807 | 05:57:58.4 | -72:58:43.2 | LMC | | | Star Cluster |
| | LW 348 | | | | | | |

Table 20 *continued on next page*

Table 20 (continued)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------------|---|------------|-------------|---------|--|-----------|----------------|
| NGC 2203 | SL 836 LW 380 | 06:04:42.6 | -75:26:16.1 | LMC | | | Star Cluster |
| NGC 2209 | SL 849 LW 408 | 06:08:36.1 | -73:50:07.9 | LMC | | | Star Cluster |
| NGC 2210 | SL 858 LW 423 | 06:11:31.6 | -69:07:18.7 | LMC | | | Star Cluster |
| NGC 2257 | SL 895 LW 481 | 06:30:12.4 | -64:19:36.6 | LMC | | | Star Cluster |
| R 136 | | 05:38:42.4 | -69:06:03.4 | LMC | | | Star Cluster |
| SL 075 | | 06:13:27.3 | -70:41:45.0 | LMC | | Cand. | Star Cluster |
| SL 639 | M-OB3 | 05:39:39.6 | -69:11:52.0 | LMC | | | Star Cluster |
| SL 663 | | 05:42:28.2 | -65:21:50.2 | LMC | | | Star Cluster |
| Reticulum | GLC 0435-59 ESO 118-31 KMHK 10 Sersic 40/3 | 04:36:11.0 | -58:51:45.5 | LMC | Sérsic (1974) | | Star Cluster |
| NGC 147-Hodge II | | 00:33:13.6 | +48:28:48.7 | NGC 147 | Baade (1944) Hodge (1976) | | Star Cluster |
| NGC 147-Hodge III | | 00:33:15.2 | +48:27:23.1 | NGC 147 | Baade (1944) Hodge (1976) | | Star Cluster |
| NGC 147-Hodge I | | 00:33:12.2 | +48:30:32.3 | NGC 147 | Hodge (1976) | | Star Cluster |
| NGC 147-Hodge IV | | 00:33:15.0 | +48:32:09.6 | NGC 147 | Hodge (1976) | | Star Cluster |
| NGC 147-GC-SD5 | | 00:32:22.9 | +48:25:49.0 | NGC 147 | Sharina & Davoust (2009) | | Star Cluster |
| NGC 147-GC-SD7 | | 00:32:22.2 | +48:31:27.0 | NGC 147 | Sharina & Davoust (2009) | | Star Cluster |
| NGC 147-GC-SD10 | | 00:32:47.2 | +48:32:10.7 | NGC 147 | Sharina & Davoust (2009) | | Star Cluster |
| NGC 147-PA-N147-2 | | 00:33:43.3 | +48:38:45.0 | NGC 147 | Veljanoski et al. (2013) | | Star Cluster |
| NGC 147-PA-N147-3 | | 00:34:10.0 | +49:02:39.0 | NGC 147 | Veljanoski et al. (2013) | | Star Cluster |
| NGC 147-PA-N147-1 | | 00:32:35.3 | +48:19:48.0 | NGC 147 | Veljanoski et al. (2013) | | Star Cluster |
| NGC 185-FJJ V | Hodge 5 | 00:39:13.4 | +48:23:04.9 | NGC 185 | Baade (1944) Hodge (1974) | | Star Cluster |

Table 20 continued on next page

Table 20 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------------------|-------------|------------|-------------|----------|--|-----------|----------------|
| NGC 185-FJJ I | Hodge 1 | 00:38:42.7 | +48:18:40.4 | NGC 185 | Hodge (1974) Ford et al. (1977) | | Star Cluster |
| NGC 185-FJJ VIII | | 00:39:23.7 | +48:18:45.1 | NGC 185 | Ford et al. (1977) | | Star Cluster |
| NGC 185-PA-N185 | | 00:38:18.8 | +48:22:04.0 | NGC 185 | Veljanoski et al. (2013) | | Star Cluster |
| NGC 185-FJJ II | Hodge 3 | 00:38:48.1 | +48:18:15.9 | NGC 185 | Hodge (1974) Ford et al. (1977) | | Star Cluster |
| NGC 185-FJJ III | Hodge 4 | 00:39:03.8 | +48:19:57.5 | NGC 185 | Hodge (1974) Ford et al. (1977) | | Star Cluster |
| NGC 185-FJJ IV | | 00:39:12.2 | +48:22:48.2 | NGC 185 | Ford et al. (1977) | | Star Cluster |
| NGC 185-FJJ VII | | 00:39:18.4 | +48:23:03.6 | NGC 185 | Ford et al. (1977) | | Star Cluster |
| NGC 205-NSC | | 00:40:22.1 | +41:41:07.1 | NGC 205 | | | Star Cluster |
| NGC 205-Hubble I | Hubble I | 00:40:30.7 | +41:36:55.7 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble II | Hubble II | 00:40:31.9 | +41:39:17.0 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble III | Hubble III | 00:40:55.5 | +41:41:26.2 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble IV | Hubble IV | 00:40:24.5 | +41:40:22.5 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble I | Hubble I | 00:40:20.5 | +41:40:49.6 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble VI | Hubble VI | 00:40:26.2 | +41:42:05.5 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble I | Hubble I | 00:40:25.6 | +41:42:53.5 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-Hubble I | Hubble I | 00:39:55.3 | +41:47:46.0 | NGC 205 | Hubble (1932) | | Star Cluster |
| NGC 205-M31C-55 | M31C-55 | 00:40:55.5 | +41:41:26.2 | NGC 205 | | | Star Cluster |
| NGC 247-SC1 | | 00:46:50.8 | -20:39:05.1 | NGC 247 | Romanowsky et al. (2023) | | Star Cluster |
| NGC 6822-Hubble VI | Hubble VI | 19:44:54.6 | -14:49:09.5 | NGC 6822 | Hubble (1925) | | Star Cluster |
| NGC 6822-Hubble VII | Hubble VII | 19:44:55.8 | -14:48:56.2 | NGC 6822 | Hubble (1925) | | Star Cluster |
| NGC 6822-Hubble VIII | Hubble VIII | 19:44:58.2 | -14:43:13.4 | NGC 6822 | Hubble (1925) | | Star Cluster |
| NGC 6822-SC1 | NGC 6822-C1 | 19:40:11.8 | -15:21:47.3 | NGC 6822 | Hwang et al. (2011) | | Star Cluster |
| NGC 6822-SC2 | NGC 6822-C2 | 19:43:04.4 | -14:58:21.5 | NGC 6822 | Hwang et al. (2011) | | Star Cluster |
| NGC 6822-SC3 | NGC 6822-C3 | 19:45:40.2 | -14:49:25.0 | NGC 6822 | Hwang et al. (2011) | | Star Cluster |
| NGC 6822-SC4 | NGC 6822-C4 | 19:47:30.5 | -14:26:49.3 | NGC 6822 | Hwang et al. (2011) | | Star Cluster |
| NGC 6822-SC5 | | 19:43:42.3 | -14:41:59.7 | NGC 6822 | Huxor et al. (2013) | Cand. | Star Cluster |
| NGC 6822-SC6 | | 19:45:37.0 | -14:41:10.8 | NGC 6822 | Huxor et al. (2013) | | Star Cluster |

Table 20 *continued on next page*

Table 20 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------------|----------------|------------|-------------|---------------|--|-----------|----------------|
| NGC 6822-SC7 | | 19:46:00.9 | -14:32:35.4 | NGC 6822 | Huxor et al. (2013) | | Star Cluster |
| DDO 216-A1 | | 23:28:26.3 | +14:44:25.2 | Pegasus dIrr | Hoessel & Mould (1982) Cole et al. (2017) | | Star Cluster |
| Scl-dE1-GC1 | | 00:23:52.7 | -24:41:58.0 | Sculptor-dE1 | Da Costa et al. (2009) | | Star Cluster |
| Sextans A-GC1 | | 10:10:43.8 | -04:43:28.8 | Sextans A | Pedreros & Gallart (2002) Beasley et al. (2019) | | Star Cluster |
| Sextans B-GC1 | SexB-C1 | 10:00:04.6 | +05:20:07.4 | Sextans B | Sharina et al. (2007) | | Star Cluster |
| Kron 3 | | 00:24:46.6 | -72:47:37.0 | SMC | | | Star Cluster |
| Lindsay 1 | | 00:03:54.4 | -73:28:18.7 | SMC | | | Star Cluster |
| NGC 152 | | 00:32:56.5 | -73:06:59.2 | SMC | | | Star Cluster |
| NGC 330 | | 00:56:18.2 | -72:27:32.3 | SMC | | | Star Cluster |
| NGC 339 | | 00:57:46.6 | -74:28:13.2 | SMC | | | Star Cluster |
| NGC 411 | | 01:07:56.0 | -71:46:04.1 | SMC | | | Star Cluster |
| NGC 416 | | 01:07:59.2 | -72:21:19.7 | SMC | | | Star Cluster |
| NGC 419 | | 01:08:17.6 | -72:53:03.8 | SMC | | | Star Cluster |
| NGC 121 | ESO 050-SC 012 | 00:26:48.9 | -71:32:09.4 | SMC | | | Star Cluster |
| Ursa Major II-GC | | 08:51:29.3 | +63:08:03.8 | Ursa Major II | Zucker et al. (2006b) Eadie et al. (2022) | Cand. | |
| WLM-GC1 | WLM 1 | 00:01:49.5 | -15:27:30.7 | WLM | Humason et al. (1956) | | Star Cluster |

NOTE—

Table 21. Properties of globular clusters with dwarf galaxy hosts

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-----------------|----------|----------|------------------|------------------------|-----------------------|------------|-------------------------|----------------------|------|-----------------|-----|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| And I-GC1 | 11.4288 | 38.0316 | 1.14 ± 0.12 | | | 4 ± 0 | 24.45 ± 0.05 | 776 ± 18 | 20.1 | -4.3 ± 0.1 | a,b |
| And XXV-GC1 | 7.5441 | 46.8516 | 6.00 | | | 22 | $24.38^{+0.07}_{-0.06}$ | 752^{+25}_{-20} | 20.0 | -4.4 | c,b |
| Aquarius-GC1 | 311.7158 | -12.8481 | | | | | 24.97 ± 0.09 | 986^{+42}_{-40} | 20.1 | -4.8 | d,e |
| CenA-MM-Dw1-GC1 | 202.5428 | -41.9047 | | | | | 27.96 ± 0.07 | 3908^{+128}_{-124} | | | f |
| CenA-MM-Dw1-GC2 | 202.5767 | -41.8909 | | | | | 27.96 ± 0.07 | 3908^{+128}_{-124} | | | f |
| CenA-MM-Dw1-GC3 | 202.5503 | -41.8840 | | | | | 27.96 ± 0.07 | 3908^{+128}_{-124} | | | f |
| CenA-MM-Dw1-NSC | 202.5584 | -41.8920 | | | | | 27.96 ± 0.07 | 3908^{+128}_{-124} | | | f |
| CenA-MM-Dw3-NSC | 202.5869 | -42.1919 | 0.25 | | | 5 | 27.94 ± 0.09 | 3873^{+164}_{-157} | 18.4 | -9.5 | f,g |
| DDO 190-GC1 | 216.1875 | 44.5267 | 0.26 | 0.20 | | 3 | $27.23^{+0.02}_{-0.01}$ | 2793^{+26}_{-13} | 20.0 | -7.2 ± 0.1 | h,i |
| Eri II-GC | 56.0933 | -43.5334 | 9.40 ± 0.60 | $0.31^{+0.05}_{-0.06}$ | 75.0 ± 6.0 | 14 ± 1 | 22.84 ± 0.05 | 370^{+9}_{-8} | 19.9 | -2.9 ± 0.3 | j,k |
| ESO 006-001-GC | 124.8542 | -85.1414 | 0.15 | | | 2 | 27.16 ± 0.09 | 2704^{+114}_{-110} | 19.8 | -7.4 ± 0.1 | l |
| ESO 269-066-GC3 | 198.2868 | -44.8896 | 0.13 ± 0.01 | 0.13 | | 2 ± 0 | 27.91 | 3819 | 17.9 | -10.0 ± 0.1 | m,n |
| F8D1-GC1 | 146.1642 | 67.4350 | 0.47 | | | 8 | 27.82 ± 0.03 | 3664^{+51}_{-50} | 21.7 | -6.1 ± 0.1 | o,p |
| Fornax-GC1 | 39.2579 | -34.1836 | 17.81 ± 0.22 | | | 13 ± 0 | 20.84 ± 0.06 | 147 ± 4 | 15.3 | -5.5 ± 0.3 | q,r |
| Fornax-GC2 | 39.6838 | -34.8083 | 13.96 ± 0.22 | | | 10 ± 0 | 20.78 ± 0.05 | 143 ± 3 | 13.6 | -7.2 ± 0.3 | q,r |
| Fornax-GC3 | 39.9504 | -34.2583 | 7.15 ± 0.17 | | | 5 ± 0 | 20.76 ± 0.06 | 142 ± 4 | 12.9 | -7.9 ± 0.3 | q,r |
| Fornax-GC4 | 40.0317 | -34.5361 | 6.94 ± 0.38 | | | 5 ± 0 | 20.74 ± 0.05 | 141 ± 3 | 13.8 | -7.0 ± 0.6 | s,q |
| Fornax-GC5 | 40.5879 | -34.1019 | 6.59 ± 0.28 | | | 5 ± 0 | 20.80 ± 0.05 | 145 ± 3 | 13.6 | -7.2 ± 0.5 | q,r |
| Fornax-GC6 | 40.0288 | -34.4220 | 16.80 ± 1.98 | 0.41 ± 0.10 | $13.1^{+10.4}_{-7.3}$ | 9 ± 1 | 20.77 ± 0.05 | 143 ± 3 | 16.0 | -4.7 ± 0.4 | t,u |
| IKN-GC1 | 152.0298 | 68.3935 | 0.36 ± 0.02 | 0.13 | | 7 ± 1 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 21.2 | -6.7 ± 0.1 | m,v |
| IKN-GC2 | 152.0450 | 68.4016 | 0.20 ± 0.01 | 0.14 | | 4 ± 0 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 20.7 | -7.2 ± 0.1 | m,v |
| IKN-GC3 | 152.0219 | 68.4094 | 0.81 ± 0.05 | 0.13 | | 15 ± 1 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 21.1 | -6.8 ± 0.1 | m,v |
| IKN-GC4 | 152.0200 | 68.4149 | 0.11 ± 0.01 | 0.18 | | 2 ± 0 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 20.5 | -7.4 ± 0.1 | m,v |
| IKN-GC5 | 152.0230 | 68.4161 | 0.16 ± 0.01 | 0.12 | | 3 ± 0 | 27.87 ± 0.18 | 3750^{+324}_{-298} | 19.4 | -8.5 ± 0.1 | m,v |
| KK 197-GC1 | 200.4992 | -42.5351 | 0.10 ± 0.01 | 0.01 | | 2 ± 0 | 27.92 ± 0.02 | 3837^{+36}_{-35} | 22.2 | -5.7 ± 0.1 | m,w |
| KK 197-GC2 | 200.5083 | -42.5356 | 0.16 ± 0.01 | 0.11 | | 3 ± 0 | 27.92 ± 0.02 | 3837^{+36}_{-35} | 18.1 | -9.8 ± 0.1 | m,w |
| KK 197-GC3 | 200.5104 | -42.5372 | 0.14 ± 0.01 | 0.07 | | 3 ± 0 | 27.92 ± 0.02 | 3837^{+36}_{-35} | 20.7 | -7.2 ± 0.1 | m,w |

Table 21 continued on next page

Table 21 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------------------|----------|----------|-----------------|-----------------|----------------|-----------|-------------------------|----------------------|------|----------------|----------|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| KK 211-GC-3-149 | 205.5230 | -45.2050 | 0.35 | 0.20 | | 6 | 27.83 ± 0.08 | 3681^{+138}_{-133} | 19.9 | -7.9 ± 0.1 | i,w |
| KK 211-GC-3-917 | 205.5330 | -45.2080 | 0.36 | 0.10 | | 6 | 27.83 ± 0.08 | 3681^{+138}_{-133} | 20.9 | -6.9 ± 0.1 | i,w |
| KK 221-GC-2-1090 | 207.2058 | -47.0039 | 0.45 | 0.00 | | 8 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 20.2 | -7.7 ± 0.1 | i,w |
| KK 221-GC-2-608 | 207.2287 | -47.0028 | 0.26 | 0.10 | | 5 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 20.0 | -7.9 ± 0.1 | i,w |
| KK 221-GC-2-883 | 207.2200 | -47.0053 | 0.43 | 0.10 | | 8 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 20.9 | -7.0 ± 0.1 | i,w |
| KK 221-GC-2-966 | 207.2096 | -47.0028 | 0.29 | 0.00 | | 5 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 18.2 | -9.7 ± 0.1 | i,w |
| KK 221-GC-24n | 207.1817 | -46.9831 | 0.26 | 0.10 | | 5 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 20.4 | -7.5 | i,w |
| KK 221-GC-27n | 207.1625 | -46.9969 | 0.26 | 0.10 | | 5 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 22.2 | -5.7 | i,w |
| KK 221-GC-3-1062 | 207.2008 | -46.9961 | 0.47 | 0.30 | | 7 | 27.91 ± 0.04 | 3819^{+71}_{-70} | 21.9 | -6.0 ± 0.1 | i,w |
| KKH 22-GC1 | 56.2104 | 72.0657 | | | | | 27.47 ± 0.13 | 3119^{+192}_{-181} | 20.4 | -7.1 ± 0.0 | x |
| KKs 3-GC1 | 36.1850 | -73.5142 | 0.47 ± 0.02 | | | 5 ± 0 | 26.63 ± 0.07 | 2118^{+69}_{-67} | 18.3 | -8.3 ± 0.0 | y |
| KKs 55-GC1 | 200.5517 | -42.7533 | 0.24 ± 0.01 | 0.11 | | 4 ± 0 | 27.93 ± 0.04 | 3855^{+72}_{-70} | 20.6 | -7.3 ± 0.1 | m,w |
| KKs 55-GC2 | 200.5578 | -42.7347 | | | | | 27.93 ± 0.04 | 3855^{+72}_{-70} | 22.8 | -5.1 ± 0.1 | z,w |
| KKs 58-NSC | 206.5033 | -36.3289 | 0.41 ± 0.03 | 0.30 ± 0.04 | 86.0 ± 2.0 | 6 ± 0 | $27.63^{+0.12}_{-0.01}$ | 3357^{+191}_{-15} | 18.1 | -9.5 ± 0.1 | aa,ab |
| Hodge 4 | 92.1502 | -73.8355 | 0.43 | | | 0 | 18.37 ± 0.03 | 47 ± 1 | 13.2 | -5.2 ± 0.0 | ac,ad,ae |
| Hodge 6 | 85.5721 | -71.5910 | 46.92 | | | 11 | 18.40 | 48 | 11.8 | -6.6 | af,ag,ah |
| Hodge 11 | 93.5954 | -69.8474 | | | | | 18.57 | 52 | 11.8 | -6.8 | ac,ah |
| Hodge 301 | 84.5720 | -69.0667 | 26.76 | | | 7 | 18.50 | 50 | 10.4 | -8.1 | af,ag,ai |
| NGC 1466 | 56.1365 | -71.6710 | 1.85 | | | 0 | 18.58 | 52 | 11.4 | -7.1 ± 0.1 | ae,ah,aj |
| NGC 1651 | 69.3843 | -70.5863 | 48.84 | | | 12 | 18.48 | 50 | 12.1 | -6.4 | af,ag,ah |
| NGC 1751 | 73.5500 | -69.8075 | 4.50 | | | 1 | 18.52 | 51 | 11.3 | -7.2 ± 0.1 | ak,al,ah |
| NGC 1754 | 73.5787 | -70.4419 | 9.00 | | | 2 | 18.48 ± 0.02 | 50 ± 1 | 11.3 | -7.2 | ac,am,an |
| NGC 1755 | 73.8139 | -68.2056 | 23.28 | | | 5 | 18.33 | 46 | 9.4 | -8.9 | af,ag,ah |
| NGC 1783 | 74.7874 | -65.9872 | 52.50 | | | 13 | 18.51 | 50 | 10.3 | -8.2 | af,ag,ah |
| NGC 1786 | 74.7833 | -67.7455 | | | | | 18.42 | 48 | 10.6 | -7.8 | ac,ah |
| NGC 1806 | 75.5458 | -67.9881 | 68.40 | | | 17 | 18.52 | 51 | 10.9 | -7.6 | af,ag,ah |
| NGC 1831 | 76.5682 | -64.9184 | 2.85 | | | 1 | 18.41 | 48 | 11.2 | -7.3 ± 0.1 | ae,ah,aj |
| NGC 1835 | 76.2779 | -69.4042 | 10.20 | | | 2 | 18.48 ± 0.02 | 50 ± 1 | 9.9 | -8.6 | ac,am,an |
| NGC 1841 | 71.3448 | -83.9988 | 11.93 | | | 3 | 18.34 | 47 | 11.1 | -7.3 ± 0.0 | ac,ae,ah |
| NGC 1846 | 76.8958 | -67.4608 | 83.22 | | | 20 | 18.52 | 51 | 10.5 | -8.0 | af,ag,ah |

Table 21 continued on next page

Table 21 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-------------------|---------|----------|--------|------------|----------|-----------|------------------|-------------------|------|----------------|----------|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| NGC 1850 | 77.1885 | -68.7624 | 40.56 | | | 9 | 18.38 | 47 | 9.3 | -9.1 | af,ag,ah |
| NGC 1856 | 77.3753 | -69.1289 | 24.48 | | | 5 | 18.32 | 46 | 9.6 | -8.7 | af,ag,ah |
| NGC 1866 | 78.4110 | -65.4647 | 41.70 | | | 9 | 18.30 | 46 | 9.3 | -9.0 | af,ag,ah |
| NGC 1898 | 79.1732 | -69.6567 | | | | | 18.60 | 52 | 11.7 | -6.9 | ac,ah |
| NGC 1916 | 79.6562 | -69.4069 | 8.40 | | | 2 | 18.48 ± 0.02 | 50 ± 1 | 11.8 | -6.7 | ac,am,an |
| NGC 1928 | 80.2395 | -69.4782 | | | | | 18.43 | 49 | 12.3 | -6.1 | ac,ah |
| NGC 1939 | 80.3599 | -69.9496 | | | | | 18.42 | 48 | 11.6 | -6.8 | ac,ah |
| NGC 1978 | 82.1863 | -66.2364 | 45.42 | | | 11 | 18.53 | 51 | 10.0 | -8.5 | af,ag,ah |
| NGC 2005 | 82.5422 | -69.7529 | | | | | 18.44 | 49 | 11.3 | -7.1 | ac,ah |
| NGC 2019 | 82.9833 | -70.1600 | 9.00 | | | 2 | 18.48 ± 0.02 | 50 ± 1 | 10.7 | -7.8 | ac,am,an |
| NGC 2121 | 87.0551 | -71.4797 | 73.50 | | | 18 | 18.48 | 50 | 12.1 | -6.4 | af,ag,ah |
| NGC 2155 | 89.6338 | -65.4774 | 40.80 | | | 9 | 18.39 | 48 | 12.5 | -5.9 | af,ag,ah |
| NGC 2173 | 89.4933 | -72.9787 | 42.54 | | | 10 | 18.37 | 47 | 11.6 | -6.8 | af,ag,ah |
| NGC 2203 | 91.1776 | -75.4378 | 54.12 | | | 12 | 18.38 | 47 | 10.9 | -7.5 | af,ag,ah |
| NGC 2209 | 92.1502 | -73.8355 | 5.52 | | | 1 | 18.37 ± 0.03 | 47 ± 1 | 11.9 | -6.5 ± 0.0 | ac,ao,ae |
| NGC 2210 | 92.8818 | -69.1219 | | | | | 18.36 | 47 | 10.8 | -7.5 | ac,ah |
| NGC 2257 | 97.5517 | -64.3268 | 6.54 | | | 1 | 18.37 | 47 | 12.5 | -5.9 ± 0.0 | ac,ae,ah |
| R 136 | 84.6767 | -69.1009 | 9.06 | | | 2 | 18.50 | 50 | 6.8 | -11.7 | af,ag,ai |
| Reticulum | 69.0458 | -58.8626 | 96.00 | | | 22 | 18.40 | 48 | 12.1 | -6.3 | af,ag,ah |
| SL 075 | 93.3636 | -70.6958 | | | | | 18.49 | 50 | | | ah |
| SL 639 | 84.9151 | -69.1978 | 12.84 | | | 3 | 18.50 | 50 | 10.4 | -8.1 | af,ag,ai |
| SL 663 | 85.6175 | -65.3639 | 1.12 | | | 0 | 18.32 ± 0.03 | 46 ± 1 | | | ao,ae |
| NGC 147-PA-N147-2 | 8.4304 | 48.6458 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 16.9 | -7.5 ± 0.0 | b,ap |
| NGC 147-PA-N147-3 | 8.5417 | 49.0442 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 17.4 | -6.9 ± 0.0 | b,ap |
| NGC 147-Hodge I | 8.3008 | 48.5090 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 16.9 | -7.5 ± 0.0 | b,ap |
| NGC 147-Hodge II | 8.3067 | 48.4802 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 17.5 | -6.8 ± 0.0 | b,ap |
| NGC 147-Hodge III | 8.3133 | 48.4564 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 16.1 | -8.3 ± 0.0 | b,ap |
| NGC 147-Hodge IV | 8.3125 | 48.5360 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 18.5 | -5.8 ± 0.0 | b,ap |
| NGC 147-PA-N147-1 | 8.1471 | 48.3300 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 16.5 | -7.8 ± 0.0 | b,ap |
| NGC 147-GC-SD5 | 8.0954 | 48.4303 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 17.6 | -6.7 ± 0.0 | b,ap |

Table 21 continued on next page

Table 21 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------------------|----------|----------|-----------------|-----------------|----------|----------------|------------------|-------------------|------|-----------------|---------|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| NGC 147-GC-SD7 | 8.0925 | 48.5242 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 16.5 | -7.9 ± 0.0 | b,ap |
| NGC 147-GC-SD10 | 8.1967 | 48.5363 | | | | | 24.33 ± 0.06 | 735^{+21}_{-20} | 19.3 | -5.0 ± 0.0 | b,ap |
| NGC 185-PA-N185 | 9.5783 | 48.3678 | | | | | 24.06 ± 0.06 | 649 ± 18 | 18.4 | -5.6 ± 0.0 | b,ap |
| NGC 185-FJJ I | 9.6779 | 48.3112 | | | | | 24.06 ± 0.06 | 649 ± 18 | 17.7 | -6.4 ± 0.0 | b,ap |
| NGC 185-FJJ II | 9.7004 | 48.3044 | | | | | 24.06 ± 0.06 | 649 ± 18 | 18.0 | -6.1 ± 0.0 | b,ap |
| NGC 185-FJJ III | 9.7658 | 48.3326 | | | | | 24.06 ± 0.06 | 649 ± 18 | 16.0 | -8.1 ± 0.2 | b,ap |
| NGC 185-FJJ IV | 9.8008 | 48.3801 | | | | | 24.06 ± 0.06 | 649 ± 18 | 17.4 | -6.7 ± 0.0 | b,ap |
| NGC 185-FJJ V | 9.8058 | 48.3847 | | | | | 24.06 ± 0.06 | 649 ± 18 | 16.1 | -7.9 ± 0.0 | b,ap |
| NGC 185-FJJ VII | 9.8267 | 48.3843 | | | | | 24.06 ± 0.06 | 649 ± 18 | 18.1 | -6.0 ± 0.0 | b,ap |
| NGC 185-FJJ VIII | 9.8488 | 48.3125 | | | | | 24.06 ± 0.06 | 649 ± 18 | 17.0 | -7.0 ± 0.0 | b,ap |
| NGC 205-Hubble I | 10.1279 | 41.6155 | | | | | 24.61 ± 0.06 | 836 ± 23 | 16.9 | -7.7 | aq,b |
| NGC 205-Hubble II | 10.1328 | 41.6547 | | | | | 24.61 ± 0.06 | 836 ± 23 | 16.7 | -7.9 | aq,b |
| NGC 205-Hubble III | 10.2314 | 41.6906 | | | | | 24.61 ± 0.06 | 836 ± 23 | | | b |
| NGC 205-Hubble IV | 10.1021 | 41.6729 | | | | | 24.61 ± 0.06 | 836 ± 23 | 18.5 | -6.1 | aq,b |
| NGC 205-Hubble I | 10.0853 | 41.6804 | | | | | 24.61 ± 0.06 | 836 ± 23 | 16.7 | -7.9 | aq,b |
| NGC 205-Hubble VI | 10.1092 | 41.7015 | | | | | 24.61 ± 0.06 | 836 ± 23 | 17.9 | -6.8 | aq,b |
| NGC 205-Hubble I | 10.1067 | 41.7149 | | | | | 24.61 ± 0.06 | 836 ± 23 | 18.0 | -6.6 | aq,b |
| NGC 205-Hubble I | 9.9804 | 41.7961 | | | | | 24.61 ± 0.06 | 836 ± 23 | 16.6 | -8.0 | aq,b |
| NGC 205-M31C-55 | 10.2314 | 41.6906 | | | | | 24.61 ± 0.06 | 836 ± 23 | | | b |
| NGC 205-NSC | 10.0921 | 41.6853 | 0.95 ± 0.02 | | | 4 ± 0 | 24.61 ± 0.06 | 836 ± 23 | 14.5 | -10.1 ± 0.0 | ar,b |
| NGC 247-SC1 | 11.7115 | -20.6514 | 0.69 ± 0.03 | 0.21 ± 0.02 | 54.0 | 11 ± 1 | 27.85 ± 0.02 | 3715 ± 34 | 18.4 | -9.4 ± 0.0 | as,at |
| NGC 6822-Hubble VI | 296.2274 | -14.8193 | 0.78 ± 0.20 | | | 2 ± 1 | 23.78 ± 0.05 | 570 ± 13 | 16.0 | -7.8 ± 0.1 | e,au |
| NGC 6822-Hubble VII | 296.2324 | -14.8156 | 1.10 ± 0.04 | | | 3 ± 0 | 23.78 ± 0.05 | 570 ± 13 | 15.1 | -8.7 ± 0.0 | e,av,aw |
| NGC 6822-Hubble VIII | 296.2425 | -14.7204 | 2.68 ± 0.13 | | | 7 ± 0 | 23.78 ± 0.05 | 570 ± 13 | 17.1 | -6.7 | e,av |
| NGC 6822-SC1 | 295.0490 | -15.3631 | 6.14 ± 0.09 | | | 17 ± 0 | 23.78 ± 0.05 | 570 ± 13 | 16.3 | -7.5 ± 0.0 | e,av,aw |
| NGC 6822-SC2 | 295.7683 | -14.9726 | 5.05 ± 0.09 | | | 14 ± 0 | 23.78 ± 0.05 | 570 ± 13 | 17.1 | -6.6 ± 0.0 | e,av,aw |
| NGC 6822-SC3 | 296.4173 | -14.8236 | 3.29 ± 0.22 | | | 9 ± 1 | 23.78 ± 0.05 | 570 ± 13 | 18.4 | -5.3 ± 0.0 | e,av,aw |
| NGC 6822-SC4 | 296.8773 | -14.4470 | 6.05 ± 0.13 | | | 17^{+1}_{-0} | 23.78 ± 0.05 | 570 ± 13 | 17.5 | -6.3 ± 0.0 | e,av,aw |
| NGC 6822-SC5 | 295.9262 | -14.6999 | | | | | 23.78 ± 0.05 | 570 ± 13 | | | e,aw |
| NGC 6822-SC6 | 296.4042 | -14.6863 | | | | | 23.78 ± 0.05 | 570 ± 13 | 15.4 | -8.4 ± 0.0 | e,aw |

Table 21 continued on next page

Table 21 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------------------|----------|----------|-----------------|-----------------|----------|------------|------------------|----------------------|------|----------------|----------|
| | deg | deg | arcsec | | deg | pc | | kpc | | | |
| NGC 6822-SC7 | 296.5035 | -14.5432 | | | | | 23.78 ± 0.05 | 570 ± 13 | 14.8 | -9.0 ± 0.0 | e,aw |
| DDO 216-A1 | 352.1096 | 14.7403 | 3.10 | | | 14 | 24.77 ± 0.08 | 899^{+34}_{-33} | 17.6 | -7.1 ± 0.2 | ax |
| Scl-dE1-GC1 | 5.9695 | -24.6994 | 1.05 ± 0.05 | | | 22 ± 2 | 28.17 ± 0.12 | 4305^{+245}_{-231} | 21.5 | -6.7 ± 0.1 | ay |
| Sextans A-GC1 | 152.6825 | -4.7247 | 1.10 ± 0.03 | 0.12 ± 0.01 | | 7 ± 0 | 25.70 ± 0.08 | 1384^{+51}_{-49} | 18.0 | -7.7 | az,ba |
| Sextans B-GC1 | 150.0193 | 5.3354 | 0.62 ± 0.03 | 0.05 | | 4 ± 0 | 25.72 ± 0.06 | 1393^{+36}_{-35} | 17.9 | -7.8 ± 0.0 | ba,bb |
| Kron 3 | 6.1943 | -72.7936 | 6.38 | | | 2 | 18.93 | 61 | 11.3 | -7.6 ± 0.9 | bc,ah,bd |
| Lindsay 1 | 0.9768 | -73.4719 | 18.28 | | | 5 | 18.86 | 59 | 13.2 | -5.7 ± 0.1 | bc,ah,bd |
| NGC 121 | 6.7039 | -71.5359 | 19.56 | | | 6 | 19.06 | 65 | 10.6 | -8.4 | af,ag,ai |
| NGC 152 | 8.2353 | -73.1164 | 4.67 | | | 1 | 19.07 | 65 | 12.2 | -6.9 ± 0.1 | ae,ah,bd |
| NGC 330 | 14.0760 | -72.4590 | 0.94 | | | 0 | 19.04 | 64 | 9.2 | -9.8 ± 0.0 | ae,ah,bd |
| NGC 339 | 14.4440 | -74.4703 | 7.01 | | | 2 | 18.96 | 62 | 11.9 | -7.0 ± 0.1 | bc,ah,bd |
| NGC 411 | 16.9831 | -71.7678 | 2.87 | | | 1 | 18.97 | 62 | 11.7 | -7.3 ± 0.1 | al,ah,bd |
| NGC 416 | 16.9965 | -72.3555 | 2.65 | | | 1 | 18.96 | 62 | 11.2 | -7.8 ± 0.0 | bc,ah,bd |
| NGC 419 | 17.0732 | -72.8844 | 2.19 | | | 1 | 18.85 | 59 | 11.2 | -7.7 ± 0.2 | bc,ah,bd |
| Ursa Major II-GC | 132.8719 | 63.1344 | 10.02 | | | 2 | 17.70 ± 0.13 | 35 ± 2 | 18.9 | 1.2 | be,bf |
| WLM-GC1 | 0.4562 | -15.4585 | 3.06 ± 0.24 | 0.17 ± 0.04 | | 12 ± 1 | 24.73 ± 0.07 | 883^{+29}_{-28} | 16.0 | -8.7 | bg,bh |

NOTE— Citations: (a) Caldwell et al. (2017) (b) Savino et al. (2022) (c) Cusano et al. (2016) (d) Greggio et al. (1993) (e) Higgs et al. (2021) (f) Crnojević et al. (2019) (g) Dumont et al. (2022) (h) Newman et al. (2024) (i) Sharina et al. (2005) (j) Martínez-Vázquez et al. (2021b) (k) Simon et al. (2021) (l) Makarova et al. (2023) (m) Georgiev et al. (2009) (n) Karachentsev et al. (2013b) (o) Caldwell et al. (1998) (p) Žemaitis et al. (2023) (q) Mackey & Gilmore (2003a) (r) Mackey & Gilmore (2003b) (s) Greco et al. (2007) (t) Oakes et al. (2022) (u) Wang et al. (2019b) (v) Karachentsev et al. (2006) (w) Tully et al. (2009b) (x) Karachentsev et al. (2020) (y) Karachentsev et al. (2015b) (z) Müller et al. (2021) (aa) Fahrion et al. (2020) (ab) Müller et al. (2019) (ac) Bica et al. (1996) (ad) Grocholski et al. (2007) (ae) McLaughlin & van der Marel (2005) (af) Baumgardt & Hilker (2018) (ag) Baumgardt et al. (2020) (ah) Milone et al. (2023) (ai) Baumgardt & Vasiliev (2021) (aj) van den Bergh (1981) (ak) Goudfrooij et al. (2006) (al) Goudfrooij et al. (2014) (am) Mackey & Gilmore (2003c) (an) Pietrzyński et al. (2019) (ao) Correnti et al. (2014) (ap) Veljanoski et al. (2013) (aq) Battistini et al. (1987) (ar) Butler & Martínez-Delgado (2005) (as) Jacobs et al. (2009) (at) Romanowsky et al. (2023) (au) Wyder et al. (2000) (av) Hwang et al. (2011) (aw) Veljanoski et al. (2015) (ax) Cole et al. (2017) (ay) Da Costa et al. (2009) (az) Beasley et al. (2019) (ba) Dalcanton et al. (2009) (bb) Sharina et al. (2007) (bc) Glatt et al. (2009) (bd) Song et al. (2021) (be) Dall’Ora et al. (2012) (bf) Eadie et al. (2022) (bg) Hodge et al. (1999) (bh) Stephens et al. (2006)

Table 22. Properties of globular clusters with dwarf galaxy hosts

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha\star}$ | μ_{δ} | Ref |
|-----------------|----------|----------|--------------------------------------|--|---|---------------------------------|--------------------------------------|----------------------|----------------------|-------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| And I-GC1 | 121.6903 | -24.8263 | | | | | | | | |
| And XXV-GC1 | 119.1555 | -15.8642 | | | | | 13.0 | | | a |
| Aquarius-GC1 | 34.0491 | -31.3432 | | | | | | | | |
| CenA-MM-Dw1-GC1 | 310.6069 | 20.3891 | 266.0 ± 5.9 | | -1.39 ± 0.32 | | | | | b |
| CenA-MM-Dw1-GC2 | 310.6358 | 20.3987 | 259.6 ± 5.9 | | -1.13 ± 0.35 | | | | | b |
| CenA-MM-Dw1-GC3 | 310.6163 | 20.4086 | 261.6 ± 6.2 | | -1.07 ± 0.34 | | | | | b |
| CenA-MM-Dw1-NSC | 310.6213 | 20.3997 | 273.2 ± 5.9 | | -1.71 ± 0.32 | | | | | b |
| CenA-MM-Dw3-NSC | 310.5924 | 20.1004 | 359.6 ± 2.4 | 8.60 | -1.12 ± 0.35 | | | | | b |
| DDO 190-GC1 | 82.0038 | 64.4727 | 160.0 ± 7.0 | | -2.17 ^{+0.12} _{-0.05} | | 2.6 ^{+1.8} _{-1.3} | | | c |
| Eri II-GC | 249.7807 | -51.6425 | 79.7 ^{+3.1} _{-3.8} | 2.30 ^{+5.30} _{-2.30} | -2.00 | | 13.2 ± 0.3 | | | d,e,f |
| ESO 006-001-GC | 297.9520 | -25.2212 | | | | | | | | |
| ESO 269-066-GC3 | 306.9679 | 17.8119 | 774.0 ± 6.0 | | -1.50 ± 0.20 | | 12.6 ± 1.5 | | | g |
| F8D1-GC1 | 144.6285 | 40.9435 | -108.0 ± 23.0 | | -1.06 ^{+0.56} _{-0.55} | | 0.5 ^{+0.5} _{-0.2} | | | c |
| Fornax-GC1 | 236.7245 | -66.2991 | 59.0 ± 1.0 | | -2.50 ± 0.10 | | 12.1 ± 0.8 | | | h,i |
| Fornax-GC2 | 238.0786 | -65.8389 | 64.0 ± 1.0 | | -2.10 ± 0.10 | | 12.2 ± 1.0 | | | h,i |
| Fornax-GC3 | 236.6632 | -65.7222 | 60.4 ± 0.2 | 6.50 ± 0.20 | -2.40 ± 0.10 | | 12.3 ± 1.4 | | | j,h,i |
| Fornax-GC4 | 237.2991 | -65.6081 | 47.2 ± 0.1 | 4.10 ± 0.10 | -1.40 ± 0.10 | | 10.2 ± 1.2 | | | j,i |
| Fornax-GC5 | 236.0873 | -65.2267 | 60.6 ± 0.2 | 4.60 ± 0.20 | -2.10 ± 0.10 | | 11.5 ± 1.5 | | | j,i |
| Fornax-GC6 | 237.0280 | -65.6305 | 50.5 ± 1.7 | 5.60 ^{+2.00} _{-1.80} | -0.70 ± 0.05 | < 0.17 | 2.0 | 0.392 ± 0.026 | -0.448 ± 0.042 | k |
| IKN-GC1 | 141.9015 | 42.2151 | | | | | 14.8 ^{+1.1} _{-1.3} | | | l |
| IKN-GC2 | 141.8883 | 42.2145 | | | | | 15.5 ^{+3.6} _{-6.2} | | | l |
| IKN-GC3 | 141.8871 | 42.2030 | | | | | 13.2 ^{+4.7} _{-6.0} | | | l |
| IKN-GC4 | 141.8818 | 42.1990 | | | | | 14.2 ^{+4.5} _{-7.2} | | | l |
| IKN-GC5 | 141.8797 | 42.1991 | | | -2.11 ± 0.19 | | 13.8 ^{+4.9} _{-7.7} | | | m,l |
| KK 197-GC1 | 308.9150 | 19.9813 | 636.4 ± 16.0 | | | | | | | n |
| KK 197-GC2 | 308.9221 | 19.9800 | 635.4 ± 1.5 | | -1.84 ± 0.05 | | 6.5 ± 1.0 | | | n |
| KK 197-GC3 | 308.9235 | 19.9783 | 642.6 ± 3.8 | | -1.80 ± 0.10 | | 7.0 ± 1.0 | | | n |

Table 22 continued on next page

Table 22 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|------------------|----------|----------|---------------------------------------|-----------------------|---|---------------------------------|--------------------------------------|----------------------|----------------------|--------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| KK 211-GC-3-149 | 312.2146 | 16.7518 | 580.0 ± 23.0 | | -1.40 ± 0.30 | | 6.0 ± 2.0 | | | o |
| KK 211-GC-3-917 | 312.2212 | 16.7474 | 620.0 ± 39.0 | | | | | | | o |
| KK 221-GC-2-1090 | 312.9948 | 14.7435 | 478.0 ± 29.0 | | | | | | | o |
| KK 221-GC-2-608 | 313.0108 | 14.7410 | 541.0 ± 32.0 | | | | | | | o |
| KK 221-GC-2-883 | 313.0042 | 14.7400 | 546.0 ± 46.0 | | | | | | | o |
| KK 221-GC-2-966 | 312.9976 | 14.7440 | 509.0 ± 25.0 | | -1.60 ± 0.10 | | 10.0 ± 2.0 | | | o |
| KK 221-GC-24n | 312.9831 | 14.7676 | 512.0 ± 31.0 | | -1.70 ± 0.30 | | 9.0 ± 2.0 | | | o |
| KK 221-GC-27n | 312.9666 | 14.7570 | 466.0 ± 35.0 | | | | | | | o |
| KK 221-GC-3-1062 | 312.9932 | 14.7519 | | | | | | | | |
| KKH 22-GC1 | 135.4910 | 13.5650 | 36.0 ± 10.0 | | | | | | | p |
| KKs 3-GC1 | 294.2352 | -42.0020 | 316.0 ± 7.0 | | -1.55 ± 0.20 | | 12.6 ± 1.5 | | | g |
| KKs 55-GC1 | 308.9265 | 19.7601 | | | | | | | | |
| KKs 55-GC2 | 308.9337 | 19.7779 | 531.4 ± 15.4 | | -1.50 ^{+0.34} _{-0.07} | | 12.9 ^{+1.4} _{-2.5} | | | q |
| KKs 58-NSC | 315.0613 | 25.2541 | 474.6 ± 1.9 | | -1.75 ± 0.06 | | 6.9 ± 1.0 | | | n |
| Hodge 4 | 284.7159 | -28.9469 | 312.7 ^{+0.6} _{-1.3} | | -0.49 | 0.12 | 2.1 | 1.632 ± 0.080 | 0.379 ± 0.090 | r,s,t |
| Hodge 6 | 282.3187 | -31.0757 | 241.6 ± 2.3 | | | | 2.3 | 1.950 ± 0.060 | 0.760 ± 0.060 | u,v |
| Hodge 11 | 280.1652 | -28.5176 | 245.9 ± 0.9 | 2.50 | -2.00 ± 0.04 | | 13.4 | 1.466 ± 0.034 | 0.989 ± 0.049 | r,w,v |
| Hodge 301 | 279.4302 | -31.7129 | 260.5 ± 0.8 | | | | 0.0 | 1.730 ± 0.050 | 0.700 ± 0.050 | u,x |
| NGC 1466 | 286.6989 | -39.5398 | 202.5 ± 0.5 | | -1.40 | 0.16 | 13.2 | 1.720 ± 0.060 | -0.740 ± 0.070 | v,t |
| NGC 1651 | 282.7870 | -36.3862 | 233.7 ± 1.4 | | | | 2.0 | 2.020 ± 0.040 | -0.300 ± 0.050 | u,v |
| NGC 1751 | 281.2810 | -35.3340 | 240.4 ^{+0.7} _{-0.6} | | -0.46 | 0.14 | 1.8 | 1.930 ± 0.070 | -0.090 ± 0.100 | v,t |
| NGC 1754 | 282.0153 | -35.1270 | 234.1 ± 5.4 | | -1.48 ± 0.09 | | 14.0 | | | y,z,aa |
| NGC 1755 | 279.3669 | -35.7195 | 297.0 ± 1.4 | | | | 0.1 | 1.880 ± 0.040 | -0.110 ± 0.050 | u,v |
| NGC 1783 | 276.6045 | -35.9410 | 279.6 ± 0.2 | | -0.54 | 0.10 | 1.6 | 1.640 ± 0.040 | -0.060 ± 0.040 | v,t |
| NGC 1786 | 278.6999 | -35.4964 | 279.9 ± 4.9 | | -1.77 ± 0.08 | | 12.9 | 1.950 ± 0.030 | 0.060 ± 0.030 | v,aa |
| NGC 1806 | 278.8958 | -35.1561 | 229.6 ± 0.4 | | -0.53 | 0.10 | 1.6 | 1.850 ± 0.050 | -0.060 ± 0.070 | v,t |
| NGC 1831 | 275.1190 | -35.4572 | 276.8 ± 0.2 | | -0.41 | 0.15 | 0.9 | 1.690 ± 0.110 | -0.040 ± 0.100 | v,t |
| NGC 1835 | 280.4809 | -34.5365 | 188.0 ± 5.0 | | -1.79 | | 16.6 | | | ab,ac |
| NGC 1841 | 297.0163 | -30.1405 | 210.8 ± 0.3 | | -1.96 | 0.12 | 12.4 | 2.050 ± 0.020 | 0.000 ± 0.030 | v,t |
| NGC 1846 | 278.1215 | -34.7857 | 239.2 ^{+0.2} _{-0.3} | | -0.49 | 0.08 | 1.6 | 1.710 ± 0.040 | 0.030 ± 0.040 | v,t |

Table 22 *continued on next page*

Table 22 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|-------------------|----------|----------|---------------------------------------|-----------------------|--------------|---------------------------------|------------|----------------------|---|----------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 1850 | 279.6294 | -34.3797 | 248.9 ^{+0.4} _{-0.5} | | -0.31 | 0.20 | 0.1 | 2.020 ± 0.040 | 0.110 ± 0.040 | v,t |
| NGC 1856 | 280.0414 | -34.2281 | 265.3 ± 2.0 | | | | 0.2 | 1.880 ± 0.050 | 0.200 ± 0.050 | u,v |
| NGC 1866 | 275.5955 | -34.5947 | 299.1 ± 0.3 | | | | 0.2 | 1.550 ± 0.030 | 0.160 ^{+0.035} _{-0.030} | u,v |
| NGC 1898 | 280.4900 | -33.4931 | 210.0 ± 5.0 | | -1.32 ± 0.10 | | 11.7 | 1.980 ± 0.050 | 0.350 ± 0.050 | y,v,z |
| NGC 1916 | 280.1554 | -33.3794 | 278.0 ± 5.0 | | -2.08 ± 0.20 | | 15.8 | | | ad,ac |
| NGC 1928 | 280.1908 | -33.1646 | 249.6 ± 12.8 | | -1.30 ± 0.15 | | 13.0 | 1.840 ± 0.100 | 0.130 ± 0.120 | v,ae |
| NGC 1939 | 280.7332 | -33.0324 | 258.8 ± 7.4 | | -2.00 ± 0.15 | | 13.3 | 2.210 ± 0.070 | 0.440 ± 0.030 | v,ae |
| NGC 1978 | 276.2333 | -32.9519 | 293.1 ± 0.3 | | -0.49 | 0.10 | 2.5 | 1.760 ± 0.030 | 0.400 ± 0.040 | v,t |
| NGC 2005 | 280.3463 | -32.3270 | 270.0 ± 5.0 | | -1.77 ± 0.10 | | 13.1 | 1.880 ± 0.040 | 0.560 ± 0.040 | y,v,z |
| NGC 2019 | 280.7940 | -32.1146 | 280.6 ± 2.3 | | -1.31 ± 0.05 | | 17.8 | | | af,ab |
| NGC 2121 | 282.1287 | -30.6214 | 237.0 ^{+0.3} _{-0.2} | | -0.54 | 0.11 | 2.9 | 1.760 ± 0.050 | 0.960 ± 0.040 | v,t |
| NGC 2155 | 275.1342 | -29.9580 | 315.0 ^{+0.1} _{-0.2} | | -0.59 | 0.12 | 2.8 | 1.730 ± 0.070 | 0.880 ± 0.050 | v,t |
| NGC 2173 | 283.7822 | -29.7513 | 236.7 ± 0.4 | | | | 1.7 | 1.970 ± 0.040 | 0.830 ± 0.050 | u,v |
| NGC 2203 | 286.5614 | -29.1202 | 252.8 ^{+0.3} _{-0.2} | | -0.45 | 0.12 | 1.6 | 1.930 ± 0.030 | 0.880 ± 0.030 | v,t |
| NGC 2209 | 284.7159 | -28.9469 | 251.2 ^{+0.1} _{-0.4} | | -0.52 | 0.15 | 1.1 ± 0.1 | 1.888 ± 0.154 | 0.957 ± 0.171 | r,ag,t |
| NGC 2210 | 279.3321 | -28.7507 | 342.6 ± 7.8 | | -1.65 ± 0.02 | 0.04 | 12.0 | 1.440 ± 0.050 | 1.360 ± 0.050 | v,ah,ac |
| NGC 2257 | 274.1066 | -26.5281 | 301.8 ^{+0.3} _{-0.4} | | -1.64 | 0.11 | 11.8 | 1.390 ± 0.050 | 1.000 ± 0.040 | v,t |
| R 136 | 279.4652 | -31.6719 | 267.6 ± 1.1 | | | | 0.0 | 1.680 ± 0.030 | 0.570 ± 0.030 | u,x |
| Reticulum | 268.6635 | -40.2701 | 247.5 ± 1.5 | | -1.57 ± 0.03 | | 11.5 | 1.950 ± 0.050 | -0.270 ± 0.020 | ai,v |
| SL 075 | 281.1293 | -28.6126 | | | | | 1.9 | 1.680 ± 0.040 | 1.070 ± 0.040 | v |
| SL 639 | 279.5670 | -31.5767 | 251.7 ± 1.4 | | | | 0.0 | 1.820 ± 0.020 | 0.660 ± 0.030 | u,x |
| SL 663 | 275.0545 | -31.6308 | 301.1 ^{+1.4} _{-1.2} | | -0.51 | 0.11 | 3.1 ± 0.4 | | | ag,t |
| NGC 147-PA-N147-2 | 119.9160 | -14.1221 | -221.0 ± 1.0 | 6.10 | -1.92 ± 0.02 | | | | | aj,ak |
| NGC 147-PA-N147-3 | 120.0200 | -13.7299 | -133.0 ± 24.0 | | | | | | | al |
| NGC 147-Hodge I | 119.8177 | -14.2525 | -107.0 ± 30.0 | | | | | | | am |
| NGC 147-Hodge II | 119.8195 | -14.2815 | 207.0 ± 1.0 | 2.50 | -1.44 ± 0.03 | | 9.0 ± 3.0 | | | aj,ak,am |
| NGC 147-Hodge III | 119.8222 | -14.3055 | -197.0 ± 1.0 | 6.60 | -2.36 ± 0.02 | | | | | aj,ak |
| NGC 147-Hodge IV | 119.8276 | -14.2261 | -235.0 ± 35.0 | | | | | | | am |
| NGC 147-PA-N147-1 | 119.6989 | -14.4234 | -221.0 ± 1.0 | 6.10 | -2.22 ± 0.02 | | | | | aj,ak |
| NGC 147-GC-SD5 | 119.6714 | -14.3208 | 187.0 ± 15.0 | | -1.70 ± 0.20 | | 10.0 ± 2.0 | | | am |

Table 22 continued on next page

Table 22 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------------------|----------|----------|--------------------|-----------------------|--------------|---------------------------------|------------|----------------------|----------------------|----------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 147-GC-SD7 | 119.6768 | -14.2270 | -197.0 ± 1.0 | 5.30 | -1.89 ± 0.02 | | 8.0 ± 2.0 | | | aj,ak,am |
| NGC 147-GC-SD10 | 119.7488 | -14.2201 | -180.0 ± 30.0 | | | | | | | am |
| NGC 185-PA-N185 | 120.6816 | -14.4466 | -254.0 ± 15.0 | | | | | | | al |
| NGC 185-FJJ I | 120.7468 | -14.5065 | -264.0 ± 30.0 | | -1.40 ± 0.10 | | 9.0 ± 4.0 | | | an,ao |
| NGC 185-FJJ II | 120.7619 | -14.5141 | | | -1.20 ± 0.25 | | | | | an |
| NGC 185-FJJ III | 120.8083 | -14.4881 | -243.0 ± 1.0 | 4.90 | -1.78 ± 0.02 | | 10.0 ± 2.0 | | | ak,ao |
| NGC 185-FJJ IV | 120.8347 | -14.4419 | -157.0 ± 30.0 | | -2.50 ± 0.25 | | 9.0 ± 2.0 | | | an,ao |
| NGC 185-FJJ V | 120.8383 | -14.4374 | -173.0 ± 1.0 | 6.00 | -1.81 ± 0.02 | | 9.0 ± 2.0 | | | ak,ao |
| NGC 185-FJJ VII | 120.8526 | -14.4384 | -217.0 ± 30.0 | | -0.80 ± 0.20 | | 5.0 ± 2.0 | | | ao |
| NGC 185-FJJ VIII | 120.8641 | -14.5109 | -188.0 ± 1.0 | 4.60 | -1.77 ± 0.02 | | 8.0 ± 4.0 | | | ak,ao |
| NGC 205-Hubble I | 120.7417 | -21.2098 | -302.0 ± 1.0 | 6.80 | -1.41 ± 0.01 | | 7.0 ± 2.0 | | | ak,ao |
| NGC 205-Hubble II | 120.7475 | -21.1708 | -241.0 ± 1.0 | 7.80 | -1.35 ± 0.01 | | 10.0 ± 2.0 | | | ak,ao |
| NGC 205-Hubble III | 120.8281 | -21.1382 | 345.0 ± 9.0 | | -1.05 ± 0.10 | | | | | an |
| NGC 205-Hubble IV | 120.7238 | -21.1515 | -302.0 ± 1.0 | 6.80 | -1.60 ± 0.15 | | | | | an,ak |
| NGC 205-Hubble I | 120.7108 | -21.1434 | -302.0 ± 1.0 | 6.80 | -1.41 ± 0.01 | | 1.2 ± 0.6 | | | an,ak,ao |
| NGC 205-Hubble VI | 120.7309 | -21.1232 | -302.0 ± 1.0 | 6.80 | -1.30 ± 0.10 | | 4.0 ± 2.0 | | | an,ak,ao |
| NGC 205-Hubble I | 120.7296 | -21.1098 | -166.0 ± 12.0 | | -1.40 ± 0.10 | | 11.0 ± 2.0 | | | an,ao |
| NGC 205-Hubble I | 120.6328 | -21.0242 | -302.0 ± 1.0 | 6.80 | -1.90 ± 0.15 | | | | | an,ak |
| NGC 205-M31C-55 | 120.8281 | -21.1382 | -146.0 ± 26.0 | | -0.70 ± 0.10 | | | | | an |
| NGC 205-NSC | 120.7164 | -21.1388 | 345.0 ± 9.0 | | -1.05 ± 0.10 | | | | | an |
| NGC 247-SC1 | 113.4891 | -83.4388 | 112.0 ± 5.0 | | | | 0.3 | | | ap |
| NGC 6822-Hubble VI | 25.3187 | -18.3941 | | | | | 0.1 ± 0.0 | | | aq |
| NGC 6822-Hubble VII | 25.3244 | -18.3970 | -68.0 ± 12.0 | | -2.34 ± 0.03 | | 12.0 ± 0.1 | | | ar,as |
| NGC 6822-Hubble VIII | 25.4202 | -18.3670 | -46.9 ± 31.2 | | -0.33 ± 0.12 | | 0.5 ± 0.1 | | | ar |
| NGC 6822-SC1 | 24.3077 | -17.5783 | -67.0 ± 4.0 | | -2.00 ± 0.04 | | 10.0 ± 1.3 | | | ar,as |
| NGC 6822-SC2 | 24.9803 | -18.0520 | -76.0 ± 4.0 | | -2.53 ± 0.06 | | 13.3 ± 1.8 | | | ar,as |
| NGC 6822-SC3 | 25.3938 | -18.5634 | -83.0 ± 14.0 | | -1.52 ± 0.06 | | 7.8 ± 0.7 | | | ar,as |
| NGC 6822-SC4 | 25.9487 | -18.8154 | -115.0 ± 58.0 | | -2.53 ± 0.08 | | 9.0 ± 3.3 | | | ar |
| NGC 6822-SC5 | 25.3078 | -18.0795 | | | | | | | | |
| NGC 6822-SC6 | 25.5204 | -18.4957 | -6.0 ± 3.0 | 8.70 | -1.69 ± 0.01 | | | | | ak,as |

Table 22 *continued on next page*

Table 22 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|------------------|----------|----------|---------------------------------------|-----------------------|--------------|---------------------------------|------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 6822-SC7 | 25.6997 | -18.5247 | -37.0 ± 2.0 | 9.20 | -1.13 ± 0.01 | | | | | ak,as |
| DDO 216-A1 | 94.7252 | -43.5391 | -176.5 ± 9.5 | | -1.79 ± 0.04 | | 12.3 ± 0.8 | | | at,au |
| ScI-dE1-GC1 | 52.8010 | -83.3453 | | | | | | | | |
| Sextans A-GC1 | 246.1181 | 39.8016 | 340.4 ± 0.6 | 5.41 ± 0.77 | -2.14 ± 0.04 | | 8.6 ± 2.7 | | | av,aw |
| Sextans B-GC1 | 233.2106 | 43.8013 | 349.0 ± 5.0 | | -1.35 ± 0.30 | | 2.0 ± 1.0 | | | ax |
| Kron 3 | 305.6766 | -44.1923 | 132.7 ^{+0.3} _{-0.4} | | -0.96 | 0.15 | 5.6 | 0.530 ± 0.020 | -1.350 ± 0.030 | v,t |
| Lindsay 1 | 307.5432 | -43.2283 | 140.5 ± 0.2 | | -0.98 | 0.13 | 7.2 | 0.540 ± 0.030 | -1.490 ± 0.030 | v,t |
| NGC 121 | 305.7071 | -45.4594 | 146.9 ± 0.9 | | | | 10.6 ± 0.7 | 0.270 ± 0.020 | -1.130 ± 0.020 | u,ay,x |
| NGC 152 | 304.7955 | -43.9448 | 172.4 ^{+0.5} _{-0.9} | | -0.73 | 0.11 | 1.9 | 0.410 ± 0.030 | -1.260 ± 0.040 | v,t |
| NGC 330 | 302.4165 | -44.6644 | 153.0 ± 0.7 | | -0.65 | 0.10 | 0.1 | 0.750 ± 0.030 | -1.310 ± 0.030 | v,t |
| NGC 339 | 302.3552 | -42.6508 | 112.9 ^{+0.4} _{-0.3} | | -1.01 | 0.17 | 5.9 | 0.700 ± 0.030 | -1.250 ± 0.040 | v,t |
| NGC 411 | 301.0990 | -45.3017 | 163.8 ^{+4.5} _{-0.3} | | -0.66 | 0.15 | 1.9 | 0.870 ± 0.080 | -1.120 ± 0.060 | v,t |
| NGC 416 | 301.1685 | -44.7161 | 155.0 ^{+1.0} _{-0.5} | | -0.80 | 0.17 | 6.0 | 0.880 ± 0.040 | -1.240 ± 0.030 | v,t |
| NGC 419 | 301.2038 | -44.1873 | 189.9 ^{+0.3} _{-0.2} | | -0.66 | 0.15 | 2.0 | 0.770 ± 0.060 | -1.220 ± 0.040 | v,t |
| Ursa Major II-GC | 152.4593 | 37.4405 | | | | | | | | |
| WLM-GC1 | 75.7778 | -73.5990 | -105.8 ± 0.4 | | -1.96 ± 0.08 | | 14.8 ± 0.6 | | | az,m,ba |

NOTE— Citations: (a) Cusano et al. (2016) (b) Dumont et al. (2022) (c) Forbes et al. (2024) (d) Simon et al. (2021) (e) Weisz et al. (2023) (f) Zoutendijk et al. (2020) (g) Sharina et al. (2017) (h) Letarte et al. (2006) (i) de Boer & Fraser (2016) (j) Larsen et al. (2012) (k) Pace et al. (2021) (l) Tudorica et al. (2015) (m) Larsen et al. (2014) (n) Fahrion et al. (2020) (o) Puzia & Sharina (2008) (p) Karachentsev et al. (2020) (q) Müller et al. (2021) (r) Bennet et al. (2022) (s) Grocholski et al. (2007) (t) Song et al. (2021) (u) Baumgardt & Hilker (2018) (v) Milone et al. (2023) (w) Mateluna et al. (2012) (x) Vasiliev & Baumgardt (2021) (y) Johnson et al. (2006) (z) Schommer et al. (1992) (aa) Sharma et al. (2010) (ab) Olsen et al. (1998) (ac) Olszewski et al. (1991) (ad) Mackey & Gilmore (2003c) (ae) Piatti et al. (2018) (af) Goudfrooij et al. (2006) (ag) Correnti et al. (2014) (ah) Mucciarelli et al. (2010) (ai) Grocholski et al. (2006) (aj) Larsen et al. (2018) (ak) Larsen et al. (2022) (al) Veljanoski et al. (2013) (am) Sharina & Davoust (2009) (an) Da Costa & Mould (1988) (ao) Sharina et al. (2006) (ap) Romanowsky et al. (2023) (aq) Wyder et al. (2000) (ar) Hwang et al. (2014) (as) Veljanoski et al. (2015) (at) Cole et al. (2017) (au) Leaman et al. (2020) (av) Beasley et al. (2019) (aw) Gvozdenko et al. (2024) (ax) Sharina et al. (2007) (ay) Mighell et al. (1998) (az) Hodge et al. (1999) (ba) Stephens et al. (2006)

Table 23. Properties of Milky Way new disk/bulge star clusters

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|---------------|--------------------|------------|-------------|------|--|-----------|----------------|
| BH 140 | | 12:53:53.5 | -67:10:37.2 | MW | Cantat-Gaudin et al. (2018) | | Star Cluster |
| ESO 393-12 | | 17:38:37.7 | -35:39:03.6 | MW | | Cand. | |
| ESO 456-09 | | 17:53:54.2 | -32:27:57.6 | MW | | Cand. | |
| Ferrero 54 | | 08:33:48.3 | -44:26:49.0 | MW | | | Star Cluster |
| ESO 456-29 | MWSC2761 Gran 1 | 17:58:36.2 | -32:01:12.0 | MW | Gran et al. (2019) | | Star Cluster |
| Patchick 122 | | 09:42:30.7 | -52:25:41.0 | MW | | | Star Cluster |
| Patchick 126 | | 17:05:38.6 | -47:20:32.0 | MW | | | Star Cluster |
| ESO 93-SC08 | ESO 93-SC08 | 11:19:42.0 | -65:13:12.0 | MW | Holmberg et al. (1977) | Cand. | |
| Pfleiderer 2 | PWM2 | 17:58:40.0 | -05:04:30.0 | MW | Pfleiderer et al. (1977) Ortolani et al. (2009) | Cand. | |
| Patchick 99 | DSH J1815.7-2948 | 18:15:47.0 | -29:48:46.0 | MW | Bica et al. (2019) | | |
| Kronberger 49 | DSH J1810.3-2320 | 18:10:24.0 | -23:20:24.0 | MW | Kronberger et al. (2006) | | Star Cluster |
| Mercer 5 | [MCM2005b] | 18:23:19.0 | -13:40:02.0 | MW | Mercer et al. (2005) Longmore et al. (2011) | Cand. | |
| Riddle 15 | MWSC 3063 | 19:11:08.9 | +14:49:58.8 | MW | Kronberger et al. (2006) Kharchenko et al. (2013) | Cand. | |
| FSR 0009 | MWSC 2921 | 18:28:30.7 | -31:54:25.2 | MW | Froeblich et al. (2007) | Cand. | |
| FSR 19 | | 17:35:38.4 | -21:04:12.0 | MW | Froeblich et al. (2007) | Cand. | |
| FSR 25 | | 17:41:43.2 | -19:34:15.6 | MW | Froeblich et al. (2007) | Cand. | |
| FSR 1716 | VVV-GC05 | 16:10:30.0 | -53:44:56.0 | MW | Froeblich et al. (2007) | | Star Cluster |
| FSR 1758 | | 17:31:12.0 | -39:48:30.0 | MW | Froeblich et al. (2007) Cantat-Gaudin et al. (2018) | | Star Cluster |
| FSR 1767 | | 17:35:43.0 | -36:21:28.8 | MW | Froeblich et al. (2007) | Cand. | |
| FSR 1775 | MWSC 2750 | 17:56:05.3 | -36:33:57.6 | MW | Froeblich et al. (2007) | Cand. | |
| FSR 1776 | Minni 83 | 17:54:14.3 | -36:09:08.6 | MW | Froeblich et al. (2007) | | Star Cluster |
| VVV CL0001 | VVV GC001 | 17:54:42.5 | -24:00:53.0 | MW | Minniti et al. (2011) | | Star Cluster |

Table 23 continued on next page

Table 23 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|-----------------------------------|------------|-------------|------|---|-----------|----------------|
| VVV-CL002 | VVV GC002 | 17:06:06.3 | -28:50:42.3 | MW | Moni Bidin et al. (2011) | | Star Cluster |
| VVV-CL003 | | 17:38:54.7 | -29:54:25.2 | MW | Moni Bidin et al. (2011) | Cand. | |
| VVV-CL131 | | 17:41:17.0 | -34:34:01.2 | MW | Borissova et al. (2014) | Cand. | |
| VVV-CL143 | | 17:44:36.0 | -33:44:16.8 | MW | Borissova et al. (2014) | Cand. | |
| VVV CL160 | RCR-01 | 18:06:57.1 | -20:00:54.0 | MW | Borissova et al. (2014) Minniti et al. (2021a) | | Star Cluster |
| Gaia 1 | | 06:45:52.8 | -16:45:00.0 | MW | Koposov et al. (2017) | | Star Cluster |
| Gaia 2 | | 01:52:29.8 | +53:02:24.0 | MW | Koposov et al. (2017) | Cand. | |
| Minni 22 | | 17:48:51.4 | -33:03:39.6 | MW | Minniti et al. (2017c) | Cand. | |
| Minni 48 | | 17:33:18.0 | -28:00:02.0 | MW | Minniti et al. (2017b) Minniti et al. (2021c) | Cand. | |
| Camargo 1102 | | 17:21:44.9 | -26:32:38.4 | MW | Camargo (2018) | Cand. | |
| Camargo 1104 | | 18:05:14.2 | -24:58:44.4 | MW | Camargo (2018) | Cand. | |
| Ryu 059 | RLGC 1 | 16:17:08.4 | -44:35:38.6 | MW | Ryu & Lee (2018a) Ryu & Lee (2018b) | Cand. | |
| Ryu 879 | RLGC 2 | 18:45:28.2 | -05:11:33.3 | MW | Ryu & Lee (2018a) Ryu & Lee (2018b) | Cand. | |
| Camargo 1107 | | 17:36:58.3 | -30:08:49.2 | MW | Camargo & Minniti (2019) | Cand. | |
| Camargo 1108 | | 17:46:04.3 | -30:51:54.0 | MW | Camargo & Minniti (2019) | Cand. | |
| Camargo 1109 | | 17:47:26.6 | -26:38:52.8 | MW | Camargo & Minniti (2019) | Cand. | |
| Garro 1 | Garro 01 VVVX-GC-140900-653712 | 14:09:00.0 | -65:37:12.0 | MW | Garro et al. (2020) | | Star Cluster |
| Gran 2 | | 17:11:33.6 | -24:50:56.4 | MW | Gran et al. (2022) | | Star Cluster |
| Gran 3 | Patchick 125 | 17:05:01.4 | -35:29:45.6 | MW | Gran et al. (2022) | | Star Cluster |
| Gran 4 | | 18:32:27.1 | -23:06:50.4 | MW | Gran et al. (2022) | | Star Cluster |
| Gran 5 | | 17:48:54.7 | -24:10:12.0 | MW | Gran et al. (2022) | | Star Cluster |
| Garro 2 | | 18:05:54.0 | -17:42:00.0 | MW | Garro et al. (2022b) | Cand. | |

NOTE—Column description: **Candidate**—spectroscopy required to confirm at low Galactic latitudes;**Classification**—Globular cluster versus open cluster.

Table 24. Properties of Milky Way new disk/bulge star clusters

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|--------------|----------|----------|------------------------|------------------------|----------|----------------------|-------------------------|---------------------|------|----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| BH 140 | 193.4730 | -67.1770 | 4.45 | | | 6.2 | 13.41 | 4.8 | 7.3 | -6.1 ± 0.1 | a,b,c |
| Camargo 1102 | 260.4370 | -26.5440 | | | | | $14.60^{+0.30}_{-0.34}$ | 8.3 ± 1.2 | 8.3 | -6.3 ± 0.6 | d |
| Camargo 1104 | 271.3090 | -24.9790 | | | | | $13.66^{+0.37}_{-0.44}$ | 5.4 ± 1.0 | 8.0 | -5.7 ± 1.7 | d |
| Camargo 1107 | 264.2430 | -30.1470 | | | | | $13.01^{+0.35}_{-0.42}$ | 4.0 ± 0.7 | 6.4 | -6.6 ± 0.5 | e |
| Camargo 1108 | 266.5180 | -30.8650 | | | | | $12.59^{+0.31}_{-0.36}$ | 3.3 ± 0.5 | 4.2 | -8.4 ± 0.5 | e |
| Camargo 1109 | 266.8610 | -26.6480 | | | | | $13.17^{+0.28}_{-0.33}$ | 4.3 ± 0.6 | 6.8 | -6.4 ± 0.7 | e |
| ESO 393-12 | 264.6570 | -35.6510 | | | | | 14.57 ± 0.03 | 8.2 ± 0.1 | 9.3 | -5.3 | f |
| ESO 456-09 | 268.4760 | -32.4660 | | | | | 14.42 ± 0.04 | 7.7 ± 0.1 | 8.4 | -6.0 | f |
| ESO 93-SC08 | 169.9250 | -65.2200 | | | | | | | | | |
| Ferrero 54 | 128.4512 | -44.4469 | | | | | 14.27 ± 0.03 | 7.1 ± 0.1 | | | g |
| FSR 0009 | 277.1280 | -31.9070 | | | | | 14.20 ± 0.04 | 6.9 ± 0.1 | 10.8 | -3.4 | f |
| FSR 19 | 263.9100 | -21.0700 | 0.90 ± 0.07 | | | 1.9 ± 0.2 | 14.29 ± 0.08 | 7.2 ± 0.3 | 9.7 | -4.6 | h |
| FSR 25 | 265.4300 | -19.5710 | $0.87^{+0.19}_{-0.17}$ | | | $1.8^{+0.4}_{-0.3}$ | 14.23 ± 0.06 | 7.0 ± 0.2 | 10.0 | -4.2 | h |
| FSR 1716 | 242.6250 | -53.7489 | 1.71 | | | 3.7 | 14.36 | 7.4 | 9.6 | -4.8 ± 0.1 | a,b,c |
| FSR 1758 | 262.8000 | -39.8083 | $6.33^{+0.87}_{-1.00}$ | | | $20.6^{+2.9}_{-3.3}$ | 15.22 | 11.1 | 6.8 | -8.4 ± 0.1 | i,b,c |
| FSR 1767 | 263.9290 | -36.3580 | 1.38 ± 0.34 | | | 4.2 ± 1.0 | 15.12 ± 0.04 | 10.6 ± 0.2 | 8.8 | -6.3 | j,f |
| FSR 1775 | 269.0220 | -36.5660 | | | | | 14.75 ± 0.02 | 8.9 ± 0.1 | 9.2 | -5.6 | f |
| FSR 1776 | 268.5595 | -36.1524 | | | | | 14.30 | 7.2 | | | k,l |
| Gaia 1 | 101.4700 | -16.7500 | 6.50 ± 0.40 | | | 8.4 ± 0.5 | 13.25 | 4.5 | 8.3 | -4.9 ± 0.1 | m,n |
| Gaia 2 | 28.1240 | 53.0400 | $1.90^{+0.40}_{-0.34}$ | $0.18^{+0.20}_{-0.12}$ | | 2.6 ± 0.5 | 13.60 ± 0.10 | 5.2 ± 0.2 | 11.6 | -2.0 ± 0.1 | m |
| Garro 1 | 212.2500 | -65.6200 | $2.40^{+0.60}_{-0.40}$ | | | $10.8^{+2.2}_{-2.3}$ | 15.93 ± 0.03 | 15.3 ± 0.2 | 10.7 | -5.3 ± 1.0 | o,p |
| Garro 2 | 271.4750 | -17.7000 | $1.58^{+0.44}_{-0.47}$ | | | $2.5^{+0.9}_{-0.8}$ | 13.74 ± 0.31 | $5.6^{+0.9}_{-0.7}$ | 8.3 | -5.4 ± 1.2 | q |
| ESO 456-29 | 269.6510 | -32.0200 | 0.86 ± 0.04 | | | 2.0 ± 0.1 | 14.50 | 7.9 | 9.1 | -5.4 | r |
| Gran 2 | 257.8900 | -24.8490 | 1.07 ± 0.03 | | | 5.2 ± 0.1 | 16.10 | 16.6 | 10.2 | -5.9 | r |
| Gran 3 | 256.2560 | -35.4960 | 1.70 ± 0.20 | | | 6.0 ± 0.7 | 15.40 | 12.0 | 11.4 | -4.0 | g,r,p |
| Gran 4 | 278.1130 | -23.1140 | $2.20^{+0.50}_{-0.40}$ | | | 14.7 ± 3.1 | 16.84 | 23.3 | 10.4 | -6.4 | r,p |
| Gran 5 | 267.2280 | -24.1700 | 0.94 ± 0.04 | | | $1.2^{+0.0}_{-0.1}$ | 13.25 | 4.5 | 8.1 | -5.2 ± 0.2 | b,r |

Table 24 continued on next page

Table 24 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|---------------|----------|----------|-----------------|------------|----------|----------------|-------------------------|----------------------|------|----------------|--------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Kronberger 49 | 272.6000 | -23.3400 | | | | | 14.61 ± 0.04 | 8.4 ± 0.2 | 7.9 | -6.7 | f |
| Mercer 5 | 275.8292 | -13.6672 | | | | | 13.69 | 5.5 | | | c,s |
| Minni 22 | 267.2140 | -33.0610 | 1.10 ± 0.30 | | | 2.3 ± 0.7 | 14.30 ± 0.08 | 7.2 ± 0.3 | 8.1 | -6.2 ± 0.5 | t |
| Minni 48 | 263.3250 | -28.0006 | 6.00 ± 1.00 | | | 14.6 ± 2.4 | 14.62 ± 0.08 | 8.4 ± 0.3 | 8.1 | -6.5 ± 0.8 | u |
| Patchick 99 | 273.9458 | -29.8128 | 1.87 | | | 3.6 | 14.13 ± 0.13 | 6.7 ± 0.4 | 8.8 | -5.3 | v,w |
| Patchick 122 | 145.6279 | -52.4281 | | | | | 13.72 ± 0.05 | 5.5 ± 0.1 | | | g |
| Patchick 126 | 256.4108 | -47.3422 | 0.48 | | | 1.2 | 14.66 ± 0.02 | 8.6 ± 0.1 | 11.0 | -3.6 ± 0.3 | a,b,g |
| Pfleiderer 2 | 269.6667 | -5.0750 | 1.24 ± 0.13 | | | 5.9 ± 0.6 | 16.07 | 16.4 | 13.6 | -2.5 | x |
| Riddle 15 | 287.7870 | 14.8330 | | | | | 16.29 ± 0.02 | 18.1 ± 0.2 | 10.1 | -6.2 | g |
| Ryu 059 | 244.2850 | -44.5941 | 0.55 ± 0.03 | | | 4.6 ± 0.7 | 17.30 ± 0.30 | $28.8^{+4.3}_{-3.7}$ | 9.1 | -8.2 ± 0.3 | y |
| Ryu 879 | 281.3674 | -5.1926 | 0.47 ± 0.01 | | | 2.2 ± 0.3 | 16.00 ± 0.30 | $15.8^{+2.3}_{-2.0}$ | 8.0 | -8.0 ± 0.3 | y |
| VVV CL0001 | 268.6771 | -24.0147 | 1.00 | | | 2.4 | 14.58 | 8.2 | 8.0 | -6.6 ± 0.5 | b,z,aa |
| VVV-CL002 | 256.5263 | -28.8451 | 0.75 ± 0.10 | | | 1.9 ± 0.3 | $14.67^{+0.15}_{-0.16}$ | 8.6 ± 0.6 | 10.1 | -4.6 | ab,ac |
| VVV-CL003 | 264.7280 | -29.9070 | 0.60 ± 0.10 | | | 2.3 ± 0.4 | $15.60^{+0.13}_{-0.14}$ | 13.2 ± 0.8 | 8.8 | -6.8 | ab,ac |
| VVV-CL131 | 265.3210 | -34.5670 | | | | | 14.77 ± 0.04 | 9.0 ± 0.2 | 8.9 | -5.9 | f |
| VVV-CL143 | 266.1500 | -33.7380 | | | | | 14.74 ± 0.05 | 8.9 ± 0.2 | 8.8 | -5.9 | f |
| VVV CL160 | 271.7380 | -20.0150 | 2.20 | | | 2.6 | 13.01 ± 0.10 | 4.0 ± 0.2 | 8.2 | -4.8 ± 0.5 | b,ad |

NOTE— Citations: (a) Baumgardt & Hilker (2018) (b) Baumgardt et al. (2020) (c) Baumgardt & Vasiliev (2021) (d) Camargo (2018) (e) Camargo & Minniti (2019) (f) Garro et al. (2022a) (g) Garro et al. (2022c) (h) Obasi et al. (2021) (i) Barbá et al. (2019) (j) Bonatto et al. (2007) (k) Dias et al. (2022) (l) Minniti et al. (2017a) (m) Koposov et al. (2017) (n) Simpson et al. (2017) (o) Garro et al. (2020) (p) Pace et al. (2023) (q) Garro et al. (2022b) (r) Gran et al. (2022) (s) Longmore et al. (2011) (t) Minniti et al. (2018) (u) Minniti et al. (2021c) (v) Butler et al. (2024) (w) Garro et al. (2021) (x) Ortolani et al. (2009) (y) Ryu & Lee (2018b) (z) Minniti et al. (2011) (aa) Olivares Carvajal et al. (2022) (ab) Minniti et al. (2021b) (ac) Moni Bidin et al. (2011) (ad) Minniti et al. (2021a)

Table 25. Properties of Milky Way new disk/bulge star clusters

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|--------------|----------|---------|--------------------|-----------------------|-------------------------|---------------------------------|----------------------|----------------------|---------------------------|-----|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| BH 140 | 303.1706 | -4.3064 | | | | | | -14.848 ± 0.024 | 1.224 ± 0.024 | a |
| Camargo 1102 | 359.1455 | 5.7343 | | | | | 13.3 ± 1.0 | | | b |
| Camargo 1104 | 5.6214 | -1.7777 | | | | | 13.5 ± 0.5 | | | b |
| Camargo 1107 | 357.9775 | 0.9557 | | | | | 13.5 ± 2.0 | | | c |
| Camargo 1108 | 358.4040 | -1.0877 | | | | | 13.5 ± 1.5 | | | c |
| Camargo 1109 | 2.1650 | 0.8436 | | | | | 12.0 ± 1.5 | | | c |
| ESO 393-12 | 353.5139 | -2.2845 | | | | | 10.0 ± 2.0 | -2.860 ± 0.470 | -5.390 ± 0.440 | d |
| ESO 456-09 | 357.8822 | -3.3389 | | | | | 10.0 ± 2.0 | -3.410 ± 0.710 | -4.560 ± 0.750 | d |
| ESO 93-SC08 | 293.5082 | -4.0404 | | | | | | -4.068 ± 0.033 | 1.400 ± 0.034 | a |
| Ferrero 54 | 262.8029 | -2.5708 | 56.1 ± 3.2 | | | | | -1.330 ± 0.270 | 1.310 ± 0.340 | e,f |
| FSR 0009 | 1.8558 | -9.5295 | | | | | 11.0 ± 2.0 | -1.390 ± 1.100 | -5.220 ± 0.990 | d |
| FSR 19 | 5.4986 | 6.0708 | | | | | 11.0 | -2.500 ± 0.760 | -5.020 ± 0.470 | g |
| FSR 25 | 7.5343 | 5.6491 | | | | | 11.0 | -2.610 ± 1.270 | -5.230 ± 0.740 | g |
| FSR 1716 | 329.7781 | -1.5926 | -30.3 ± 1.2 | 2.50 ± 0.90 | -1.38 ± 0.20 | | | -4.354 ± 0.033 | -8.832 ± 0.031 | h,a |
| FSR 1758 | 349.2166 | -3.2924 | 224.9 ± 0.7 | 3.51 ± 0.49 | -1.43 ± 0.08 | | $11.6^{+1.2}_{-1.3}$ | -2.881 ± 0.026 | 2.519 ± 0.025 | i,a |
| FSR 1767 | 352.6007 | -2.1661 | | | | | 11.0 ± 2.0 | -3.020 ± 0.500 | -4.850 ± 0.500 | d |
| FSR 1775 | 354.5459 | -5.7790 | | | | | 10.0 ± 2.0 | -3.000 ± 0.800 | -5.530 ± 0.730 | d |
| FSR 1776 | 354.7201 | -5.2500 | -103.7 ± 0.4 | | 0.02 ± 0.01 | 0.14 | 10.0 ± 1.0 | -2.300 ± 1.100 | -2.600 ± 0.800 | j |
| Gaia 1 | 227.3383 | -8.7474 | 58.3 ± 0.2 | 0.94 ± 0.15 | -0.13 ± 0.13 | | 3.5 | | | k |
| Gaia 2 | 132.1478 | -8.7357 | -54.4 ± 3.8 | | | | 8.0 ± 2.0 | | | f,l |
| Garro 1 | 310.8278 | -3.9443 | 31.0 ± 0.1 | < 0.80 | -0.30 ± 0.03 | < 0.10 | 11.0 ± 1.0 | -4.350 ± 0.020 | -1.090 ± 0.020 | m,n |
| Garro 2 | 12.0478 | 1.6461 | | | -1.30 | | 12.0 ± 2.0 | -6.070 ± 0.620 | -6.150 ± 0.750 | o |
| ESO 456-29 | 358.7671 | -3.9767 | 77.0 ± 3.6 | | -1.13 ± 0.06 | | | -8.163 ± 0.038 | -8.045 ± 0.036 | p,a |
| Gran 2 | 359.2293 | 8.5861 | 61.2 ± 2.7 | | -1.46 ± 0.13 | | | 0.190 | -2.570 | q,p |
| Gran 3 | 349.7563 | 3.4235 | 90.9 ± 0.4 | 1.90 ± 0.30 | $-1.83^{+0.03}_{-0.04}$ | < 0.16 | | -3.740 ± 0.030 | $0.710^{+0.010}_{-0.020}$ | n |
| Gran 4 | 10.1964 | -6.3885 | -266.4 ± 0.2 | 1.40 ± 0.20 | -1.84 ± 0.02 | < 0.10 | | 0.510 ± 0.010 | -3.510 ± 0.010 | n |
| Gran 5 | 4.4592 | 1.8385 | -59.2 ± 4.9 | | -1.02 ± 0.11 | | | -5.320 | -9.200 | q,p |

Table 25 continued on next page

Table 25 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|---------------|----------|---------|--------------------|-----------------------|--------------|---------------------------------|------------|----------------------|----------------------|-------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| Kronberger 49 | 7.6272 | -2.0123 | | | | | 11.0 ± 2.0 | -2.840 ± 0.690 | -5.520 ± 0.710 | d |
| Mercer 5 | 17.5936 | -0.1086 | | | | | | -3.965 ± 0.114 | -7.220 ± 0.111 | a |
| Minni 22 | 356.8284 | -2.7282 | | | | | 11.2 ± 1.0 | | | r |
| Minni 48 | 359.3514 | 2.7902 | | | | | 10.0 ± 2.0 | -3.500 ± 0.500 | -6.000 ± 0.500 | s |
| Patchick 99 | 2.4885 | -6.1453 | -92.0 ± 10.0 | | -0.75 ± 0.30 | | 10.0 ± 2.0 | -2.980 ± 1.740 | -5.490 ± 2.020 | t,u |
| Patchick 122 | 276.3398 | 0.4062 | 98.7 ± 3.4 | | | | | -3.720 ± 0.120 | 3.810 ± 0.120 | e,f |
| Patchick 126 | 340.3805 | -3.8263 | -123.6 ± 2.9 | | | | | -4.750 ± 0.460 | -6.680 ± 0.620 | e,f |
| Pfleiderer 2 | 22.2807 | 9.3223 | | | | | 10.0 ± 2.0 | -2.784 ± 0.034 | -4.158 ± 0.031 | v,a |
| Riddle 15 | 48.3550 | 2.4550 | | | | | | -1.030 ± 0.320 | -1.640 ± 0.270 | e |
| Ryu 059 | 336.8697 | 4.3031 | | | | | | 1.022 ± 0.055 | 0.770 ± 0.047 | a |
| Ryu 879 | 27.6310 | -1.0422 | | | | | | -2.396 ± 0.077 | -1.794 ± 0.069 | a |
| VVV CL0001 | 5.2675 | 0.7797 | -324.9 ± 0.8 | | -2.04 ± 0.02 | | | -3.487 ± 0.144 | -1.652 ± 0.107 | w,a |
| VVV-CL002 | 355.2410 | 7.2282 | -27.3 ± 0.1 | | -0.54 ± 0.27 | | | -8.867 ± 0.142 | 2.390 ± 0.085 | x,y,a |
| VVV-CL003 | 358.4050 | 0.7294 | | | | | | -1.930 ± 0.050 | 8.330 ± 0.050 | z |
| VVV-CL131 | 354.7218 | -2.1699 | | | | | 10.0 ± 3.0 | -3.240 ± 0.810 | -5.650 ± 0.700 | d |
| VVV-CL143 | 355.7883 | -2.3187 | 86.0 ± 26.0 | | | | 10.0 ± 3.0 | -3.180 ± 0.910 | -6.170 ± 0.850 | aa,d |
| VVV CL160 | 10.1478 | 0.2999 | 245.3 ± 0.8 | | | | 12.0 | -2.300 ± 0.100 | -16.800 ± 0.100 | f,ab |

NOTE— Citations: (a) Vasiliev & Baumgardt (2021) (b) Camargo (2018) (c) Camargo & Minniti (2019) (d) Garro et al. (2022a) (e) Garro et al. (2022c) (f) Garro et al. (2023) (g) Obasi et al. (2021) (h) Koch et al. (2017) (i) Romero-Colmenares et al. (2021) (j) Dias et al. (2022) (k) Simpson et al. (2017) (l) Koposov et al. (2017) (m) Garro et al. (2020) (n) Pace et al. (2023) (o) Garro et al. (2022b) (p) Gran et al. (2024) (q) Gran et al. (2022) (r) Minniti et al. (2018) (s) Minniti et al. (2021c) (t) Butler et al. (2024) (u) Garro et al. (2021) (v) Ortolani et al. (2009) (w) Olivares Carvajal et al. (2022) (x) Minniti et al. (2024) (y) Moni Bidin et al. (2011) (z) Minniti et al. (2021b) (aa) Borissova et al. (2014) (ab) Minniti et al. (2021a)

Table 26. Properties of Milky Way Harris catalog globular clusters

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|------------|------------|-------------|-------------|----------------------|-----------|----------------|
| ARP 2 | | 19:28:44.1 | -30:21:20.3 | Sagittarius | | | Star Cluster |
| BH 176 | | 15:39:07.5 | -50:03:09.8 | MW | | | Star Cluster |
| BH 261 | AL 3 | 18:14:06.6 | -28:38:06.0 | MW | | | Star Cluster |
| | ESO 456-78 | | | | | | |
| | MWSC 2847 | | | | | | |
| E 3 | | 09:20:57.1 | -77:16:54.8 | MW | | | Star Cluster |
| ESO 280-SC06 | | 18:09:06.0 | -46:25:24.0 | MW | | | Star Cluster |
| HP 1 | BH 229 | 17:31:05.2 | -29:58:54.0 | MW | | | Star Cluster |
| | ESO 455-11 | | | | | | |
| IC 1257 | | 17:27:08.5 | -07:05:35.0 | MW | | | Star Cluster |
| IC 1276 | Palomar 7 | 18:10:44.3 | -07:12:27.3 | MW | | | Star Cluster |
| IC 4499 | | 15:00:18.5 | -82:12:49.7 | MW | | | Star Cluster |
| Liller 1 | | 17:33:24.6 | -33:23:22.4 | MW | | | Star Cluster |
| Lynga 7 | BH 184 | 16:11:03.7 | -55:19:04.0 | MW | | | Star Cluster |
| NGC 104 | | 00:24:05.7 | -72:04:52.7 | MW | | | Star Cluster |
| NGC 288 | | 00:52:45.2 | -26:34:57.4 | MW | | | Star Cluster |
| NGC 362 | | 01:03:14.3 | -70:50:55.6 | MW | | | Star Cluster |
| NGC 1261 | | 03:12:16.2 | -55:12:58.4 | MW | | | Star Cluster |
| NGC 1851 | | 05:14:06.8 | -40:02:47.6 | MW | | | Star Cluster |
| NGC 1904 | M 79 | 05:24:11.0 | -24:31:27.9 | MW | | | Star Cluster |
| NGC 2298 | | 06:48:59.4 | -36:00:19.1 | MW | | | Star Cluster |
| NGC 2808 | | 09:12:03.1 | -64:51:48.6 | MW | | | Star Cluster |
| NGC 3201 | | 10:17:36.8 | -46:24:44.9 | MW | | | Star Cluster |
| NGC 4147 | | 12:10:06.3 | +18:32:33.5 | MW | | | Star Cluster |
| NGC 4372 | | 12:25:45.4 | -72:39:32.7 | MW | | | Star Cluster |
| NGC 4590 | M 68 | 12:39:28.0 | -26:44:38.6 | MW | | | Star Cluster |
| NGC 4833 | | 12:59:33.9 | -70:52:35.4 | MW | | | Star Cluster |

Table 26 continued on next page

Table 26 (continued)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------|--------------------------|------------|-------------|------|----------------------|-----------|----------------|
| NGC 5024 | M 53 | 13:12:55.3 | +18:10:05.4 | MW | | | Star Cluster |
| NGC 5053 | | 13:16:27.1 | +17:42:00.9 | MW | | | Star Cluster |
| NGC 5139 | omega Cen Caldwell 80 | 13:26:47.3 | -47:28:46.1 | MW | | | Star Cluster |
| NGC 5272 | M 3 | 13:42:11.6 | +28:22:38.2 | MW | | | Star Cluster |
| NGC 5286 | | 13:46:26.8 | -51:22:27.3 | MW | | | Star Cluster |
| NGC 5466 | | 14:05:27.3 | +28:32:04.0 | MW | | | Star Cluster |
| NGC 5634 | | 14:29:37.3 | -05:58:35.1 | MW | | | Star Cluster |
| NGC 5897 | | 15:17:24.4 | -21:00:36.4 | MW | | | Star Cluster |
| NGC 5904 | M 5 | 15:18:33.2 | +02:04:51.7 | MW | | | Star Cluster |
| NGC 5927 | | 15:28:00.7 | -50:40:22.9 | MW | | | Star Cluster |
| NGC 5946 | | 15:35:28.6 | -50:39:35.0 | MW | | | Star Cluster |
| NGC 5986 | | 15:46:03.0 | -37:47:11.1 | MW | | | Star Cluster |
| NGC 6093 | M 80 | 16:17:02.4 | -22:58:33.9 | MW | | | Star Cluster |
| NGC 6101 | | 16:25:48.1 | -72:12:07.9 | MW | | | Star Cluster |
| NGC 6121 | M 4 | 16:23:35.2 | -26:31:32.7 | MW | | | Star Cluster |
| NGC 6139 | | 16:27:40.4 | -38:50:55.6 | MW | | | Star Cluster |
| NGC 6144 | | 16:27:13.9 | -26:01:24.6 | MW | | | Star Cluster |
| NGC 6171 | M 107 | 16:32:31.9 | -13:03:13.6 | MW | | | Star Cluster |
| NGC 6205 | M 13 | 16:41:41.2 | +36:27:35.5 | MW | | | Star Cluster |
| NGC 6218 | M 12 | 16:47:14.2 | -01:56:54.7 | MW | | | Star Cluster |
| NGC 6235 | | 16:53:25.4 | -22:10:38.8 | MW | | | Star Cluster |
| NGC 6254 | M 10 | 16:57:09.1 | -04:06:01.1 | MW | | | Star Cluster |
| NGC 6256 | | 16:59:32.7 | -37:07:15.5 | MW | | | Star Cluster |
| NGC 6266 | M 62 | 17:01:13.0 | -30:06:48.2 | MW | | | Star Cluster |
| NGC 6273 | M 19 | 17:02:37.8 | -26:16:04.7 | MW | | | Star Cluster |
| NGC 6284 | | 17:04:28.8 | -24:45:53.3 | MW | | | Star Cluster |
| NGC 6287 | | 17:05:09.3 | -22:42:28.8 | MW | | | Star Cluster |
| NGC 6293 | | 17:10:10.2 | -26:34:55.5 | MW | | | Star Cluster |
| NGC 6304 | | 17:14:32.3 | -29:27:43.3 | MW | | | Star Cluster |

Table 26 continued on next page

Table 26 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------|----------------------|------------|-------------|------|----------------------|-----------|----------------|
| NGC 6316 | | 17:16:37.3 | -28:08:24.4 | MW | | | Star Cluster |
| NGC 6325 | | 17:17:59.1 | -23:46:03.6 | MW | | | Star Cluster |
| NGC 6333 | M9 | 17:19:11.8 | -18:30:58.5 | MW | | | Star Cluster |
| NGC 6341 | M92 | 17:17:07.4 | +43:08:09.4 | MW | | | Star Cluster |
| NGC 6342 | | 17:21:10.0 | -19:35:15.6 | MW | | | Star Cluster |
| NGC 6352 | | 17:25:29.1 | -48:25:19.8 | MW | | | Star Cluster |
| NGC 6355 | | 17:23:58.4 | -26:21:10.2 | MW | | | Star Cluster |
| NGC 6356 | | 17:23:35.0 | -17:48:46.9 | MW | | | Star Cluster |
| NGC 6362 | | 17:31:55.0 | -67:02:54.0 | MW | | | Star Cluster |
| NGC 6366 | | 17:27:44.2 | -05:04:47.5 | MW | | | Star Cluster |
| NGC 6380 | Ton 1 | 17:34:28.5 | -39:04:10.3 | MW | | | Star Cluster |
| NGC 6388 | | 17:36:17.2 | -44:44:07.8 | MW | | | Star Cluster |
| NGC 6397 | | 17:40:42.1 | -53:40:27.6 | MW | | | Star Cluster |
| NGC 6401 | MWSC 2653 | 17:38:36.5 | -23:54:34.6 | MW | | | Star Cluster |
| NGC 6402 | M 14 | 17:37:36.2 | -03:14:45.3 | MW | | | Star Cluster |
| NGC 6426 | | 17:44:54.7 | +03:10:12.5 | MW | | | Star Cluster |
| NGC 6440 | | 17:48:52.8 | -20:21:37.5 | MW | | | Star Cluster |
| NGC 6441 | | 17:50:13.1 | -37:03:05.2 | MW | | | Star Cluster |
| NGC 6453 | | 17:50:51.7 | -34:35:54.5 | MW | | | Star Cluster |
| NGC 6496 | | 17:59:03.7 | -44:15:57.4 | MW | | | Star Cluster |
| NGC 6517 | | 18:01:50.6 | -08:57:31.6 | MW | | | Star Cluster |
| NGC 6522 | | 18:03:34.1 | -30:02:02.3 | MW | | | Star Cluster |
| NGC 6528 | | 18:04:49.6 | -30:03:20.8 | MW | | | Star Cluster |
| NGC 6535 | | 18:03:50.5 | -00:17:51.5 | MW | | | Star Cluster |
| NGC 6539 | | 18:04:49.7 | -07:35:09.1 | MW | | | Star Cluster |
| NGC 6540 | Djorg 3 MWSC 2804 | 18:06:08.6 | -27:45:55.0 | MW | | | Star Cluster |
| NGC 6541 | | 18:08:02.4 | -43:42:53.6 | MW | | | Star Cluster |
| NGC 6544 | | 18:07:20.1 | -24:59:53.6 | MW | | | Star Cluster |
| NGC 6553 | | 18:09:17.5 | -25:54:29.0 | MW | | | Star Cluster |

Table 26 *continued on next page*

Table 26 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|----------|------------|------------|-------------|-------------|---------------------------------|-----------|----------------|
| NGC 6558 | | 18:10:17.8 | -31:45:52.2 | MW | | | Star Cluster |
| NGC 6569 | ESO 456-77 | 18:13:38.8 | -31:49:36.8 | MW | | | Star Cluster |
| NGC 6584 | | 18:18:37.6 | -52:12:56.8 | MW | | | Star Cluster |
| NGC 6624 | | 18:23:40.5 | -30:21:39.7 | MW | | | Star Cluster |
| NGC 6626 | M 28 | 18:24:32.9 | -24:52:11.4 | MW | | | Star Cluster |
| NGC 6637 | M 69 | 18:31:23.1 | -32:20:53.1 | MW | | | Star Cluster |
| NGC 6638 | Gcl 95 | 18:30:56.1 | -25:29:50.9 | MW | | | Star Cluster |
| NGC 6642 | MWSC 2941 | 18:31:54.2 | -23:28:32.2 | MW | | | Star Cluster |
| NGC 6652 | | 18:35:45.6 | -32:59:26.6 | MW | | | Star Cluster |
| NGC 6656 | M 22 | 18:36:23.9 | -23:54:17.1 | MW | | | Star Cluster |
| NGC 6681 | M 70 | 18:43:12.8 | -32:17:31.6 | MW | | | Star Cluster |
| NGC 6712 | | 18:53:04.3 | -08:42:21.5 | MW | | | Star Cluster |
| NGC 6715 | M 54 | 18:55:03.3 | -30:28:47.5 | Sagittarius | | | Star Cluster |
| NGC 6717 | Palomar 9 | 18:55:06.0 | -22:42:05.3 | MW | | | Star Cluster |
| NGC 6723 | | 18:59:33.1 | -36:37:56.1 | MW | | | Star Cluster |
| NGC 6749 | | 19:05:15.4 | +01:53:59.1 | MW | | | Star Cluster |
| NGC 6752 | | 19:10:52.1 | -59:59:04.4 | MW | | | Star Cluster |
| NGC 6760 | | 19:11:12.1 | +01:01:49.7 | MW | | | Star Cluster |
| NGC 6779 | M 56 | 19:16:35.6 | +30:11:00.5 | MW | | | Star Cluster |
| NGC 6809 | M 55 | 19:39:59.7 | -30:57:53.1 | MW | | | Star Cluster |
| NGC 6838 | M 71 | 19:53:46.5 | +18:46:45.1 | MW | | | Star Cluster |
| NGC 6864 | M 75 | 20:06:04.7 | -21:55:16.2 | MW | | | Star Cluster |
| NGC 6934 | | 20:34:11.4 | +07:24:16.1 | MW | | | Star Cluster |
| NGC 6981 | M 72 | 20:53:27.7 | -12:32:14.3 | MW | | | Star Cluster |
| NGC 7078 | M 15 | 21:29:58.3 | +12:10:01.2 | MW | | | Star Cluster |
| NGC 7089 | M 2 | 21:33:27.0 | -00:49:23.7 | MW | | | Star Cluster |
| NGC 7099 | M 30 | 21:40:22.1 | -23:10:47.5 | MW | | | Star Cluster |
| UKS 1 | | 17:54:27.2 | -24:08:43.0 | MW | | | Star Cluster |
| NGC 5694 | | 14:39:36.3 | -26:32:19.6 | MW | Herschel (1786) | | Star Cluster |
| NGC 7006 | | 21:01:29.4 | +16:11:14.4 | MW | Herschel (1786) | | Star Cluster |

Table 26 continued on next page

Table 26 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|------------|--|------------|-------------|-------------|---|-----------|----------------|
| NGC 6229 | | 16:46:58.9 | +47:31:40.1 | MW | Herschel (1789) | | Star Cluster |
| NGC 2419 | | 07:38:08.5 | +38:52:55.0 | Sagittarius | Herschel (1802) | | Star Cluster |
| NGC 7492 | | 23:08:26.7 | -15:36:41.3 | MW | Herschel (1789) | | Star Cluster |
| NGC 5897 | | 15:03:58.6 | -33:04:05.3 | Sagittarius | Dunlop (1828) | | Star Cluster |
| Palomar 1 | | 03:33:20.0 | +79:34:51.8 | MW | Abell (1955) | | Star Cluster |
| Palomar 2 | | 04:46:05.9 | +31:22:53.4 | MW | Abell (1955) Wilson (1955) | | Star Cluster |
| Palomar 3 | Sextans C UGC 05439 | 10:05:31.6 | +00:04:18.0 | MW | Abell (1955) Wilson (1955) | | Star Cluster |
| Palomar 4 | UGCA 237 | 11:29:16.4 | +28:58:24.1 | MW | Abell (1955) Wilson (1955) | | Star Cluster |
| Palomar 5 | | 15:16:04.6 | -00:07:15.6 | MW | Abell (1955) | | Star Cluster |
| Palomar 6 | ESO 520-21 | 17:43:42.2 | -26:13:30.0 | MW | Abell (1955) | | Star Cluster |
| Palomar 8 | | 18:41:30.5 | -19:49:43.9 | MW | Abell (1955) | | Star Cluster |
| Palomar 10 | | 19:18:02.1 | +18:34:18.0 | MW | Abell (1955) | | Star Cluster |
| Palomar 11 | | 19:45:14.4 | -08:00:26.0 | MW | Abell (1955) | | Star Cluster |
| Palomar 12 | | 21:46:38.8 | -21:15:09.4 | Sagittarius | Abell (1955) | | Star Cluster |
| Palomar 13 | UGCA 435 | 23:06:44.4 | +12:46:17.5 | MW | Wilson (1955) Abell (1955) | | Star Cluster |
| Palomar 15 | UGC 10642 | 16:59:51.0 | -00:32:20.4 | MW | Zwicky (1959) | | Star Cluster |
| Ton 2 | ESO 333-16 Pismis 26 Tonantzintla 2 | 17:36:10.1 | -38:33:22.0 | MW | Pišmiš (1959) | | Star Cluster |
| Palomar 14 | AvdB | 16:11:00.6 | +14:57:28.0 | MW | Arp & van den Bergh (1960) | | Star Cluster |
| Rup 106 | Ruprecht 106 | 12:38:40.2 | -51:09:01.0 | MW | Alter et al. (1961) | | Star Cluster |
| Terzan 1 | HP2 ESO 455-23 Haute-Provence 2 MWSC 2635 | 17:35:47.2 | -30:28:54.4 | MW | Terzan (1966) | | Star Cluster |
| Terzan 2 | HP 3 | 17:27:33.1 | -30:48:08.4 | MW | Terzan (1967) | | Star Cluster |

Table 26 *continued on next page*

Table 26 (continued)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|--------------|---|------------|-------------|-------------|---|-----------|----------------|
| | ESO 454-29 MWSC 2600 Haute-Provence 3 BH 228 | | | | | | |
| Terzan 3 | | 16:28:39.0 | -35:20:23.4 | MW | Terzan (1968) | | Star Cluster |
| Terzan 4 | HP 4 | 17:30:39.0 | -31:35:43.9 | MW | Terzan (1968) | | Star Cluster |
| | Gcl 66.1 | | | | | | |
| Terzan 5 | Terzan 11 | 17:48:04.8 | -24:46:44.6 | MW | Terzan (1968) | | Star Cluster |
| Terzan 6 | HP 5 | 17:50:46.4 | -31:16:31.4 | MW | Terzan (1968) | | Star Cluster |
| | ESO 455-49 Haute-Provence 5 BH 249 MWSC 2719 | | | | | | |
| Terzan 7 | | 19:17:43.9 | -34:39:27.8 | Sagittarius | Terzan (1968) | | Star Cluster |
| Terzan 8 | ESO 398-SC 021 | 19:41:44.4 | -33:59:58.1 | Sagittarius | Terzan (1968) | | Star Cluster |
| Terzan 9 | Gcl 80.1 | 18:01:38.8 | -26:50:23.0 | MW | Terzan (1971) | | Star Cluster |
| | MWSC 2778 | | | | | | |
| Terzan 10 | ESO 521-16 | 18:02:57.8 | -26:04:01.0 | MW | Terzan (1971) | | Star Cluster |
| | MWSC 2793 | | | | | | |
| Terzan 12 | ESO 522-1 | 18:12:15.8 | -22:44:31.0 | MW | Terzan (1971) | | Star Cluster |
| | MWSC 2838 | | | | | | |
| AM 1 | E 1 | 03:55:02.3 | -49:36:55.0 | MW | Lauberts (1976) | | Star Cluster |
| Eridanus | | 04:24:44.5 | -21:11:12.4 | MW | Cesarsky et al. (1977) | | Star Cluster |
| Djorgovski 2 | ESO456 | 18:01:49.1 | -27:49:32.9 | MW | Holmberg et al. (1978) | | Star Cluster |
| | Djorg 2 | | | | Djorgovski (1987) | | |
| | ESO 456-38 MWSC 2779 | | | | | | |
| ESO 452-SC11 | | 16:39:25.0 | -28:23:57.0 | MW | Lauberts et al. (1981) | | Star Cluster |
| AM 4 | | 13:56:21.4 | -27:09:54.6 | MW | Madore & Arp (1982) | | Star Cluster |
| Djorgovski 1 | Djorg 1 | 17:47:28.7 | -33:03:59.0 | MW | Djorgovski (1987) | | Star Cluster |

Table 26 continued on next page

Table 26 (*continued*)

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Candidate | Classification |
|-------------|--------------|------------|-------------|-------------|---|-----------|----------------|
| Pyxis | C J0907-372 | 09:07:56.9 | -37:13:35.8 | MW | Weinberger (1995) Da Costa (1995) Irwin et al. (1995) | | Star Cluster |
| 2MASS GC-01 | | 18:08:21.8 | -19:49:47.0 | MW | Hurt et al. (2000) | | Star Cluster |
| 2MASS GC-02 | | 18:09:36.5 | -20:46:44.0 | MW | Hurt et al. (2000) | | Star Cluster |
| Whiting 1 | WHI B0200-03 | 02:02:57.0 | -03:15:10.0 | Sagittarius | Whiting et al. (2002) | | |
| Glimpse 1 | GLIMPSE-C01 | 18:48:49.7 | -01:29:50.0 | MW | Kobulnicky et al. (2005) Mercer et al. (2005) | | |
| Glimpse 2 | GLIMPSE-C02 | 18:18:30.5 | -16:58:38.0 | MW | Mercer et al. (2005) Kurtev et al. (2008) Strader & Kobulnicky (2008) | | |
| | Mercer 3 | | | | | | |
| FSR 1735 | 2MASS GC-03 | 16:52:10.6 | -47:03:29.0 | MW | Froebrich et al. (2007) | | Star Cluster |

NOTE—

Table 27. Properties of Milky Way Harris catalog globular clusters

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|--------------|----------|----------|--------|------------|----------|-----------|-------------------------|-----------------------|------|----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| 2MASS GC-01 | 272.0909 | -19.8297 | 4.07 | | | 4.0 | 12.64 ± 0.40 | $3.4^{+0.7}_{-0.6}$ | 6.6 | -6.1 | a,b,c |
| 2MASS GC-02 | 272.4021 | -20.7789 | 1.39 | | | 1.0 | $11.99^{+0.36}_{-0.40}$ | $2.5^{+0.5}_{-0.4}$ | 8.7 | -3.3 | a,b,c |
| AM 1 | 58.7596 | -49.6153 | 0.43 | | | 14.9 | 20.38 ± 0.06 | $118.9^{+3.4}_{-3.3}$ | 14.3 | -6.1 ± 0.1 | a,b,c |
| AM 4 | 209.0891 | -27.1652 | 0.77 | | | 6.5 | 17.31 ± 0.07 | $29.0^{+1.0}_{-0.9}$ | 15.7 | -1.7 | a,c,d |
| ARP 2 | 292.1838 | -30.3556 | 1.70 | | | 14.2 | 17.29 ± 0.03 | 28.7 ± 0.3 | 11.3 | -6.0 ± 0.0 | a,b,c |
| BH 176 | 234.7810 | -50.0527 | 0.90 | | | 4.0 | 15.91 | 15.2 | 11.6 | -4.3 | e |
| BH 261 | 273.5275 | -28.6350 | 1.65 | | | 2.9 | 13.93 ± 0.09 | 6.1 ± 0.3 | 10.2 | -3.8 ± 0.0 | a,b,c |
| Djorgovski 1 | 266.8696 | -33.0664 | 1.43 | | | 4.1 | 14.97 ± 0.14 | $9.9^{+0.7}_{-0.6}$ | 8.2 | -6.8 ± 0.1 | a,b,c |
| Djorgovski 2 | 270.4544 | -27.8258 | 1.82 | | | 4.6 | 14.71 ± 0.04 | 8.8 ± 0.2 | 8.2 | -6.5 ± 0.1 | a,b,c |
| E 3 | 140.2378 | -77.2819 | 1.92 | | | 4.4 | 14.48 ± 0.07 | $7.9^{+0.3}_{-0.2}$ | 10.9 | -3.6 ± 0.0 | a,b,c |
| Eridanus | 66.1856 | -21.1868 | 0.55 | | | 13.5 | 19.64 ± 0.07 | $84.7^{+2.9}_{-2.8}$ | 14.2 | -5.4 ± 0.0 | a,b,c |
| ESO 280-SC06 | 272.2750 | -46.4233 | 1.15 | | | 7.0 | 16.61 ± 0.07 | $20.9^{+0.7}_{-0.6}$ | 11.7 | -4.9 ± 0.2 | a,b,f |
| ESO 452-SC11 | 249.8542 | -28.3992 | 1.15 | | | 2.5 | 14.34 ± 0.06 | 7.4 ± 0.2 | 10.3 | -4.0 ± 0.1 | a,b,c |
| FSR 1735 | 253.0442 | -47.0581 | 0.79 | | | 2.1 | 14.79 ± 0.13 | 9.1 ± 0.5 | 7.9 | -6.9 ± 0.1 | a,b,c |
| Glimpse 1 | 282.2071 | -1.4972 | 0.60 | | | 0.5 | $12.46^{+0.33}_{-0.38}$ | 3.1 ± 0.5 | 4.0 | -8.4 | g |
| Glimpse 2 | 274.6271 | -16.9772 | 1.73 | | | 2.3 | $13.30^{+0.31}_{-0.30}$ | $4.6^{+0.7}_{-0.6}$ | 7.1 | -6.2 | h,i |
| HP 1 | 262.7717 | -29.9817 | 1.52 | | | 3.1 | 14.22 ± 0.04 | 7.0 ± 0.1 | 7.6 | -6.6 ± 0.1 | a,b,c |
| IC 1257 | 261.7854 | -7.0931 | 0.53 | | | 4.1 | 17.12 ± 0.12 | $26.6^{+1.5}_{-1.4}$ | 12.0 | -5.2 | a,b,c |
| IC 1276 | 272.6844 | -7.2076 | 2.42 | | | 3.2 | 13.29 ± 0.12 | $4.6^{+0.3}_{-0.2}$ | 6.6 | -6.7 ± 0.1 | a,b,c |
| IC 4499 | 225.0772 | -82.2138 | 1.87 | | | 10.3 | 16.38 ± 0.03 | 18.9 ± 0.3 | 9.1 | -7.3 ± 0.1 | a,b,c |
| Liller 1 | 263.3523 | -33.3896 | 0.55 | | | 1.3 | 14.53 ± 0.09 | $8.1^{+0.4}_{-0.3}$ | 5.5 | -9.0 ± 0.2 | a,b,c |
| Lynga 7 | 242.7652 | -55.3178 | 1.70 | | | 3.9 | 14.49 ± 0.04 | 7.9 ± 0.2 | 7.6 | -6.9 ± 0.1 | a,b,c |
| NGC 104 | 6.0238 | -72.0813 | 3.07 | | | 4.0 | 13.28 ± 0.01 | 4.5 ± 0.0 | 4.0 | -9.3 ± 0.1 | a,b,c |
| NGC 288 | 13.1885 | -26.5826 | 2.23 | | | 5.8 | 14.77 ± 0.02 | 9.0 ± 0.1 | 8.0 | -6.8 ± 0.0 | a,b,c |
| NGC 362 | 15.8094 | -70.8488 | 0.86 | | | 2.2 | 14.73 ± 0.02 | 8.8 ± 0.1 | 6.3 | -8.4 ± 0.0 | a,b,c |
| NGC 1261 | 48.0675 | -55.2162 | 0.68 | | | 3.2 | 16.07 ± 0.03 | 16.4 ± 0.2 | 8.3 | -7.8 ± 0.0 | a,b,c |
| NGC 1851 | 78.5282 | -40.0466 | 0.50 | | | 1.7 | 15.39 ± 0.02 | 12.0 ± 0.1 | 7.0 | -8.4 ± 0.0 | a,b,c |

Table 27 continued on next page

Table 27 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------|----------|----------|--------|------------|----------|-----------|------------------|----------------------|------|-----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| NGC 1904 | 81.0458 | -24.5244 | 0.68 | | | 2.6 | 15.58 ± 0.03 | 13.1 ± 0.2 | 7.9 | -7.7 ± 0.0 | a,b,c |
| NGC 2298 | 102.2475 | -36.0053 | 0.84 | | | 2.4 | 14.96 ± 0.04 | 9.8 ± 0.2 | 8.6 | -6.3 ± 0.0 | a,b,c |
| NGC 2419 | 114.5353 | 38.8819 | 0.77 | | | 19.8 | 19.73 ± 0.06 | 88.5 ± 2.4 | 10.3 | -9.4 ± 0.0 | a,b,c |
| NGC 2808 | 138.0129 | -64.8635 | 0.84 | | | 2.5 | 15.01 ± 0.02 | 10.1 ± 0.1 | 5.5 | -9.6 ± 0.0 | a,b,c |
| NGC 3201 | 154.4034 | -46.4125 | 3.75 | | | 5.2 | 13.38 ± 0.02 | 4.7 ± 0.0 | 6.0 | -7.3 ± 0.0 | a,b,c |
| NGC 4147 | 182.5263 | 18.5426 | 0.47 | | | 2.5 | 16.34 ± 0.03 | 18.5 ± 0.2 | 10.2 | -6.1 ± 0.0 | a,b,c |
| NGC 4372 | 186.4391 | -72.6591 | 3.47 | | | 5.8 | 13.78 ± 0.08 | 5.7 ± 0.2 | 6.2 | -7.6 ± 0.1 | a,b,c |
| NGC 4590 | 189.8666 | -26.7441 | 1.47 | | | 4.4 | 15.09 ± 0.02 | 10.4 ± 0.1 | 7.8 | -7.2 ± 0.0 | a,b,c |
| NGC 4833 | 194.8913 | -70.8765 | 1.73 | | | 3.3 | 14.06 ± 0.03 | 6.5 ± 0.1 | 6.2 | -7.9 ± 0.0 | a,b,c |
| NGC 5024 | 198.2302 | 18.1682 | 1.20 | | | 6.5 | 16.34 ± 0.02 | 18.5 ± 0.2 | 7.6 | -8.7 ± 0.0 | a,b,c |
| NGC 5053 | 199.1129 | 17.7003 | 2.43 | | | 12.4 | 16.22 ± 0.03 | 17.5 ± 0.2 | 9.9 | -6.3 ± 0.0 | a,b,c |
| NGC 5139 | 201.6970 | -47.4795 | 4.79 | | | 7.6 | 13.67 ± 0.02 | 5.4 ± 0.0 | 3.1 | -10.5 ± 0.0 | a,b,c |
| NGC 5272 | 205.5484 | 28.3773 | 1.15 | | | 3.4 | 15.04 ± 0.02 | 10.2 ± 0.1 | 6.4 | -8.7 ± 0.0 | a,b,c |
| NGC 5286 | 206.6117 | -51.3742 | 0.73 | | | 2.4 | 15.23 ± 0.03 | 11.1 ± 0.1 | 6.6 | -8.6 ± 0.0 | a,b,c |
| NGC 5466 | 211.3637 | 28.5344 | 2.04 | | | 9.6 | 16.04 ± 0.02 | 16.1 ± 0.2 | 9.3 | -6.7 ± 0.0 | a,b,c |
| NGC 5634 | 217.4053 | -5.9764 | 0.61 | | | 4.6 | 17.07 ± 0.05 | 26.0 ± 0.6 | 9.4 | -7.7 ± 0.1 | a,b,c |
| NGC 5694 | 219.9012 | -26.5388 | 0.30 | | | 3.0 | 17.71 ± 0.05 | 34.8 ± 0.7 | 9.6 | -8.1 ± 0.1 | a,b,c |
| NGC 5897 | 225.9942 | -33.0681 | 0.49 | | | 4.5 | 17.51 ± 0.04 | 31.7 ± 0.6 | 8.4 | -9.1 ± 0.1 | a,b,c |
| NGC 5897 | 229.3517 | -21.0101 | 2.09 | | | 7.6 | 15.49 ± 0.04 | 12.5 ± 0.2 | 8.2 | -7.3 ± 0.0 | a,b,c |
| NGC 5904 | 229.6384 | 2.0810 | 1.62 | | | 3.5 | 14.37 ± 0.02 | 7.5 ± 0.1 | 5.9 | -8.5 ± 0.0 | a,b,c |
| NGC 5927 | 232.0029 | -50.6730 | 1.29 | | | 3.1 | 14.59 ± 0.03 | 8.3 ± 0.1 | 6.3 | -8.2 ± 0.0 | a,b,c |
| NGC 5946 | 233.8691 | -50.6597 | 0.70 | | | 2.0 | 14.92 ± 0.12 | 9.6 ± 0.5 | 7.8 | -7.1 ± 0.1 | a,b,c |
| NGC 5986 | 236.5125 | -37.7864 | 0.93 | | | 2.9 | 15.11 ± 0.03 | 10.5 ± 0.1 | 6.8 | -8.3 ± 0.0 | a,b,c |
| NGC 6093 | 244.2600 | -22.9761 | 0.64 | | | 1.9 | 15.07 ± 0.02 | 10.3 ± 0.1 | 6.9 | -8.2 ± 0.0 | a,b,c |
| NGC 6101 | 246.4505 | -72.2022 | 2.28 | | | 9.6 | 15.80 ± 0.03 | 14.4 ± 0.2 | 8.5 | -7.3 ± 0.0 | a,b,c |
| NGC 6121 | 245.8967 | -26.5257 | 4.65 | | | 2.5 | 11.34 ± 0.02 | 1.9 ± 0.0 | 4.3 | -7.0 ± 0.0 | a,b,c |
| NGC 6139 | 246.9185 | -38.8488 | 0.63 | | | 1.8 | 15.01 ± 0.10 | $10.0^{+0.5}_{-0.4}$ | 6.7 | -8.3 ± 0.1 | a,b,c |
| NGC 6144 | 246.8078 | -26.0235 | 1.56 | | | 3.7 | 14.56 ± 0.03 | 8.2 ± 0.1 | 8.1 | -6.4 ± 0.0 | a,b,c |
| NGC 6171 | 248.1328 | -13.0538 | 1.58 | | | 2.6 | 13.75 ± 0.03 | 5.6 ± 0.1 | 7.3 | -6.5 ± 0.0 | a,b,c |
| NGC 6205 | 250.4218 | 36.4599 | 1.61 | | | 3.5 | 14.35 ± 0.02 | 7.4 ± 0.1 | 5.8 | -8.6 ± 0.0 | a,b,c |

Table 27 *continued on next page*

Table 27 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------|----------|----------|--------|------------|----------|-----------|-------------------------|----------------------|------|----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| NGC 6218 | 251.8091 | -1.9485 | 1.83 | | | 2.7 | 13.54 ± 0.02 | 5.1 ± 0.0 | 6.5 | -7.0 ± 0.0 | a,b,c |
| NGC 6229 | 251.7452 | 47.5278 | 0.36 | | | 3.2 | 17.39 ± 0.03 | 30.1 ± 0.5 | 9.3 | -8.1 ± 0.1 | a,b,c |
| NGC 6235 | 253.3557 | -22.1774 | 0.97 | | | 3.4 | 15.38 ± 0.07 | 11.9 ± 0.4 | 8.7 | -6.7 ± 0.0 | a,b,c |
| NGC 6254 | 254.2877 | -4.1003 | 2.03 | | | 3.0 | 13.52 ± 0.03 | 5.1 ± 0.1 | 5.8 | -7.8 ± 0.0 | a,b,c |
| NGC 6256 | 254.8861 | -37.1210 | 1.40 | | | 2.9 | 14.30 ± 0.09 | 7.2 ± 0.3 | 7.2 | -7.1 ± 0.1 | a,b,c |
| NGC 6266 | 255.3042 | -30.1134 | 0.99 | | | 1.8 | 14.04 ± 0.04 | 6.4 ± 0.1 | 5.2 | -8.9 ± 0.1 | a,b,c |
| NGC 6273 | 255.6575 | -26.2680 | 1.30 | | | 3.2 | 14.61 ± 0.04 | 8.3 ± 0.2 | 5.7 | -8.9 ± 0.0 | a,b,c |
| NGC 6284 | 256.1201 | -24.7648 | 0.71 | | | 2.9 | 15.76 ± 0.06 | 14.2 ± 0.4 | 8.1 | -7.6 ± 0.1 | a,b,c |
| NGC 6287 | 256.2889 | -22.7080 | 0.84 | | | 1.9 | 14.50 ± 0.10 | 7.9 ± 0.4 | 7.5 | -6.9 ± 0.1 | a,b,c |
| NGC 6293 | 257.5425 | -26.5821 | 0.83 | | | 2.2 | 14.82 ± 0.07 | 9.2 ± 0.3 | 7.4 | -7.4 ± 0.1 | a,b,c |
| NGC 6304 | 258.6344 | -29.4620 | 1.02 | | | 1.8 | 13.95 ± 0.05 | 6.2 ± 0.1 | 6.5 | -7.4 ± 0.1 | a,b,c |
| NGC 6316 | 259.1554 | -28.1401 | 0.97 | | | 3.1 | $15.24^{+0.07}_{-0.08}$ | 11.2 ± 0.4 | 7.3 | -7.9 ± 0.2 | a,b,c |
| NGC 6325 | 259.4963 | -23.7677 | 0.79 | | | 1.7 | 14.38 ± 0.09 | 7.5 ± 0.3 | 8.1 | -6.3 ± 0.0 | a,b,c |
| NGC 6333 | 259.7991 | -18.5163 | 1.13 | | | 2.7 | 14.60 ± 0.04 | 8.3 ± 0.1 | 6.5 | -8.1 ± 0.0 | a,b,c |
| NGC 6341 | 259.2808 | 43.1359 | 0.82 | | | 2.0 | 14.65 ± 0.02 | 8.5 ± 0.1 | 6.5 | -8.2 ± 0.0 | a,b,c |
| NGC 6342 | 260.2916 | -19.5877 | 0.64 | | | 1.5 | 14.52 ± 0.06 | 8.0 ± 0.2 | 8.4 | -6.1 ± 0.1 | a,b,c |
| NGC 6352 | 261.3713 | -48.4222 | 2.00 | | | 3.2 | 13.72 ± 0.03 | 5.5 ± 0.1 | 7.4 | -6.3 ± 0.0 | a,b,c |
| NGC 6355 | 260.9935 | -26.3528 | 0.94 | | | 2.4 | 14.69 ± 0.06 | 8.7 ± 0.2 | 7.5 | -7.1 ± 0.1 | a,b,c |
| NGC 6356 | 260.8958 | -17.8130 | 0.88 | | | 4.0 | 15.97 ± 0.13 | 15.7 ± 0.9 | 7.5 | -8.5 ± 0.1 | a,b,c |
| NGC 6362 | 262.9791 | -67.0483 | 2.31 | | | 5.1 | 14.42 ± 0.02 | 7.6 ± 0.1 | 7.2 | -7.2 ± 0.0 | a,b,c |
| NGC 6366 | 261.9344 | -5.0799 | 3.78 | | | 3.8 | 12.69 ± 0.03 | 3.4 ± 0.1 | 6.7 | -6.0 ± 0.0 | a,b,c |
| NGC 6380 | 263.6186 | -39.0695 | 1.12 | | | 3.1 | 14.91 ± 0.07 | 9.6 ± 0.3 | 7.1 | -7.8 ± 0.1 | a,b,c |
| NGC 6388 | 264.0718 | -44.7355 | 0.80 | | | 2.6 | 15.24 ± 0.03 | 11.2 ± 0.2 | 5.7 | -9.6 ± 0.0 | a,b,c |
| NGC 6397 | 265.1754 | -53.6743 | 3.01 | | | 2.2 | 11.97 ± 0.02 | 2.5 ± 0.0 | 4.9 | -7.1 ± 0.0 | a,b,c |
| NGC 6401 | 264.6522 | -23.9096 | 1.07 | | | 2.5 | 14.53 ± 0.06 | 8.1 ± 0.2 | 7.1 | -7.4 ± 0.1 | a,b,c |
| NGC 6402 | 264.4007 | -3.2459 | 1.33 | | | 3.5 | 14.81 ± 0.06 | $9.1^{+0.3}_{-0.2}$ | 6.0 | -8.8 ± 0.1 | a,b,c |
| NGC 6426 | 266.2280 | 3.1701 | 0.86 | | | 5.2 | 16.58 ± 0.04 | $20.7^{+0.4}_{-0.3}$ | 10.0 | -6.6 ± 0.0 | a,b,c |
| NGC 6440 | 267.2202 | -20.3604 | 0.55 | | | 1.3 | 14.58 ± 0.06 | 8.2 ± 0.2 | 5.7 | -8.9 ± 0.1 | a,b,c |
| NGC 6441 | 267.5544 | -37.0514 | 0.58 | | | 2.1 | 15.52 ± 0.03 | 12.7 ± 0.2 | 5.7 | -9.9 ± 0.1 | a,b,c |
| NGC 6453 | 267.7155 | -34.5985 | 0.94 | | | 2.8 | 15.02 ± 0.05 | 10.1 ± 0.2 | 7.2 | -7.8 ± 0.1 | a,b,c |

Table 27 continued on next page

Table 27 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|----------|----------|----------|------------------------|------------|----------|---------------|-------------------------|---------------------|-----|-----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| NGC 6496 | 269.7654 | -44.2659 | 1.52 | | | 4.3 | 14.92 ± 0.03 | $9.6^{+0.2}_{-0.1}$ | 8.2 | -6.7 ± 0.1 | a,b,c |
| NGC 6517 | 270.4608 | -8.9588 | 0.63 | | | 1.7 | 14.82 ± 0.13 | $9.2^{+0.6}_{-0.5}$ | 7.4 | -7.5 ± 0.1 | a,b,c |
| NGC 6522 | 270.8920 | -30.0340 | 1.17 | | | 2.5 | 14.31 ± 0.06 | 7.3 ± 0.2 | 6.8 | -7.5 ± 0.0 | a,b,c |
| NGC 6528 | 271.2067 | -30.0558 | 1.08 | | | 2.5 | 14.47 ± 0.07 | 7.8 ± 0.2 | 8.0 | -6.4 ± 0.1 | a,b,c |
| NGC 6535 | 270.9604 | -0.2976 | 1.46 | | | 2.7 | 14.02 ± 0.04 | 6.4 ± 0.1 | 9.1 | -5.0 ± 0.0 | a,b,c |
| NGC 6539 | 271.2073 | -7.5859 | 1.55 | | | 3.7 | 14.56 ± 0.10 | 8.2 ± 0.4 | 6.8 | -7.8 ± 0.0 | a,b,c |
| NGC 6540 | 271.5357 | -27.7653 | 1.54 | | | 2.6 | 13.86 ± 0.10 | 5.9 ± 0.3 | 7.7 | -6.2 ± 0.1 | a,b,c |
| NGC 6541 | 272.0098 | -43.7149 | 1.03 | | | 2.3 | 14.41 ± 0.03 | 7.6 ± 0.1 | 6.2 | -8.2 ± 0.0 | a,b,c |
| NGC 6544 | 271.8338 | -24.9982 | 2.05 | | | 1.5 | 12.06 ± 0.05 | 2.6 ± 0.1 | 5.5 | -6.6 ± 0.2 | a,b,c |
| NGC 6553 | 272.3230 | -25.9081 | 1.48 | | | 2.3 | 13.63 ± 0.05 | 5.3 ± 0.1 | 6.1 | -7.5 ± 0.1 | a,b,c |
| NGC 6558 | 272.5740 | -31.7645 | 0.68 | | | 1.5 | 14.37 ± 0.08 | 7.5 ± 0.3 | 8.3 | -6.1 ± 0.1 | a,b,c |
| NGC 6569 | 273.4117 | -31.8269 | $0.68^{+0.14}_{-0.17}$ | | | 2.1 ± 0.5 | 15.11 ± 0.05 | 10.5 ± 0.3 | 7.4 | -7.7 ± 0.0 | b,c,j |
| NGC 6584 | 274.6566 | -52.2158 | 0.88 | | | 3.5 | 15.67 ± 0.03 | 13.6 ± 0.2 | 8.3 | -7.4 ± 0.0 | a,b,c |
| NGC 6624 | 275.9188 | -30.3610 | 0.73 | | | 1.7 | 14.52 ± 0.03 | 8.0 ± 0.1 | 7.2 | -7.4 ± 0.1 | a,b,c |
| NGC 6626 | 276.1370 | -24.8698 | 1.03 | | | 1.6 | 13.65 ± 0.04 | 5.4 ± 0.1 | 5.6 | -8.0 ± 0.1 | a,b,c |
| NGC 6637 | 277.8463 | -32.3481 | 0.93 | | | 2.4 | 14.75 ± 0.03 | 8.9 ± 0.1 | 7.2 | -7.6 ± 0.0 | a,b,c |
| NGC 6638 | 277.7337 | -25.4975 | 0.65 | | | 1.8 | $14.95^{+0.08}_{-0.07}$ | 9.8 ± 0.3 | 7.5 | -7.4 ± 0.1 | a,b,c |
| NGC 6642 | 277.9760 | -23.4756 | 0.59 | | | 1.4 | 14.53 ± 0.05 | 8.1 ± 0.2 | 8.2 | -6.3 ± 0.1 | a,b,c |
| NGC 6652 | 278.9401 | -32.9907 | 0.53 | | | 1.5 | 14.88 ± 0.03 | 9.5 ± 0.1 | 8.6 | -6.2 ± 0.0 | a,b,c |
| NGC 6656 | 279.0998 | -23.9047 | 3.31 | | | 3.2 | 12.60 ± 0.02 | 3.3 ± 0.0 | 4.0 | -8.6 ± 0.0 | a,b,c |
| NGC 6681 | 280.8032 | -32.2921 | 0.79 | | | 2.2 | 14.86 ± 0.03 | 9.4 ± 0.1 | 7.7 | -7.2 ± 0.0 | a,b,c |
| NGC 6712 | 283.2680 | -8.7060 | 1.19 | | | 2.6 | 14.34 ± 0.07 | 7.4 ± 0.2 | 7.2 | -7.1 ± 0.0 | a,b,c |
| NGC 6715 | 283.7639 | -30.4799 | 0.47 | | | 3.6 | 17.10 ± 0.03 | 26.3 ± 0.3 | 7.1 | -10.0 ± 0.1 | a,b,c |
| NGC 6717 | 283.7752 | -22.7015 | 1.20 | | | 2.6 | 14.38 ± 0.04 | 7.5 ± 0.1 | 8.3 | -6.1 ± 0.0 | a,b,c |
| NGC 6723 | 284.8881 | -36.6322 | 1.51 | | | 3.6 | 14.59 ± 0.03 | 8.3 ± 0.1 | 7.1 | -7.5 ± 0.0 | a,b,c |
| NGC 6749 | 286.3141 | 1.8998 | 1.89 | | | 4.2 | 14.40 ± 0.06 | 7.6 ± 0.2 | 6.3 | -8.1 ± 0.1 | a,b,c |
| NGC 6752 | 287.7171 | -59.9846 | 2.39 | | | 2.9 | 13.08 ± 0.02 | 4.1 ± 0.0 | 5.2 | -7.9 ± 0.1 | a,b,c |
| NGC 6760 | 287.8003 | 1.0305 | 1.37 | | | 3.4 | 14.62 ± 0.11 | 8.4 ± 0.4 | 6.5 | -8.1 ± 0.1 | a,b,c |
| NGC 6779 | 289.1482 | 30.1835 | 0.98 | | | 3.0 | 15.09 ± 0.03 | 10.4 ± 0.1 | 7.3 | -7.7 ± 0.1 | a,b,c |
| NGC 6809 | 294.9988 | -30.9647 | 2.96 | | | 4.6 | 13.64 ± 0.02 | 5.3 ± 0.1 | 6.0 | -7.6 ± 0.0 | a,b,c |

Table 27 *continued on next page*

Table 27 (continued)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|------------|----------|----------|-----------------|------------|----------|---------------|-------------------------|-----------------------|------|----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| NGC 6838 | 298.4437 | 18.7792 | 2.85 | | | 3.3 | 13.01 ± 0.03 | $4.0^{+0.1}_{-0.0}$ | 6.4 | -6.6 ± 0.0 | a,b,c |
| NGC 6864 | 301.5198 | -21.9212 | 0.54 ± 0.02 | | | 3.2 ± 0.1 | 16.56 ± 0.05 | $20.5^{+0.5}_{-0.4}$ | 8.0 | -8.5 ± 0.0 | b,c,k |
| NGC 6934 | 308.5474 | 7.4045 | 0.65 | | | 3.0 | 15.98 ± 0.02 | 15.7 ± 0.2 | 8.4 | -7.6 ± 0.0 | a,b,c |
| NGC 6981 | 313.3654 | -12.5373 | 0.85 | | | 4.1 | 16.11 ± 0.02 | 16.7 ± 0.2 | 9.2 | -6.9 ± 0.0 | a,b,c |
| NGC 7006 | 315.3726 | 16.1873 | 0.38 | | | 4.3 | 17.97 ± 0.03 | 39.3 ± 0.6 | 10.5 | -7.5 ± 0.0 | a,b,c |
| NGC 7078 | 322.4930 | 12.1670 | 0.65 | | | 2.0 | 15.15 ± 0.02 | 10.7 ± 0.1 | 6.0 | -9.2 ± 0.1 | a,b,c |
| NGC 7089 | 323.3626 | -0.8233 | 0.90 | | | 3.1 | 15.34 ± 0.02 | 11.7 ± 0.1 | 6.3 | -9.1 ± 0.0 | a,b,c |
| NGC 7099 | 325.0921 | -23.1799 | 1.03 | | | 2.5 | 14.64 ± 0.02 | 8.5 ± 0.1 | 7.3 | -7.4 ± 0.1 | a,b,c |
| NGC 7492 | 347.1112 | -15.6115 | 1.07 | | | 7.6 | 16.94 ± 0.05 | 24.4 ± 0.6 | 11.1 | -5.9 ± 0.0 | a,b,c |
| Palomar 1 | 53.3335 | 79.5811 | 0.62 | | | 2.0 | 15.24 ± 0.06 | 11.2 ± 0.3 | 12.7 | -2.5 ± 0.5 | a,c,l |
| Palomar 2 | 71.5246 | 31.3815 | 0.63 | | | 4.8 | 17.09 ± 0.11 | 26.2 ± 1.3 | 8.8 | -8.3 ± 0.1 | a,b,c |
| Palomar 3 | 151.3816 | 0.0717 | 0.73 | | | 20.1 | 19.89 ± 0.07 | $94.8^{+3.3}_{-3.2}$ | 14.4 | -5.4 ± 0.0 | a,b,c |
| Palomar 4 | 172.3183 | 28.9734 | 0.54 | | | 15.9 | 20.03 ± 0.06 | $101.4^{+2.6}_{-2.5}$ | 14.2 | -5.9 ± 0.0 | a,b,c |
| Palomar 5 | 229.0192 | -0.1210 | 3.20 | | | 20.4 | 16.71 ± 0.05 | 21.9 ± 0.5 | 11.8 | -4.9 ± 0.0 | a,b,c |
| Palomar 6 | 265.9258 | -26.2250 | 1.11 | | | 2.3 | 14.24 ± 0.14 | $7.0^{+0.5}_{-0.4}$ | 7.1 | -7.1 ± 0.1 | a,b,c |
| Palomar 8 | 280.3773 | -19.8289 | 1.05 | | | 3.5 | 15.27 ± 0.12 | $11.3^{+0.7}_{-0.6}$ | 9.1 | -6.1 ± 0.1 | a,b,c |
| Palomar 10 | 289.5087 | 18.5717 | 1.55 | | | 4.0 | $14.76^{+0.29}_{-0.28}$ | $8.9^{+1.3}_{-1.1}$ | 7.2 | -7.5 ± 0.0 | a,b,c |
| Palomar 11 | 296.3100 | -8.0072 | 1.50 | | | 6.1 | 15.73 ± 0.08 | 14.0 ± 0.5 | 10.6 | -5.1 ± 0.0 | a,b,c |
| Palomar 12 | 326.6618 | -21.2526 | 1.31 | | | 7.0 | 16.34 ± 0.04 | 18.5 ± 0.3 | 11.9 | -4.4 ± 0.0 | a,b,c |
| Palomar 13 | 346.6852 | 12.7715 | 1.72 | | | 11.7 | 16.85 ± 0.04 | 23.5 ± 0.4 | 13.7 | -3.1 ± 0.1 | a,b,c |
| Palomar 14 | 242.7525 | 14.9578 | 1.29 | | | 27.6 | 19.33 ± 0.05 | 73.6 ± 1.6 | 14.0 | -5.3 ± 0.0 | a,b,c |
| Palomar 15 | 254.9626 | -0.5390 | 1.56 | | | 20.0 | 18.22 ± 0.06 | $44.1^{+1.2}_{-1.1}$ | 12.7 | -5.6 ± 0.1 | a,b,c |
| Pyxis | 136.9869 | -37.2266 | 1.60 | | | 17.0 | 17.81 ± 0.04 | 36.5 ± 0.7 | 12.3 | -5.5 ± 0.0 | a,b,c |
| Rup 106 | 189.6675 | -51.1503 | 1.26 | | | 7.6 | 16.58 ± 0.04 | 20.7 ± 0.4 | 10.4 | -6.2 ± 0.0 | a,b,c |
| Terzan 1 | 263.9467 | -30.4818 | 0.89 | | | 1.5 | 13.77 ± 0.07 | 5.7 ± 0.2 | 6.3 | -7.5 ± 0.1 | a,b,c |
| Terzan 2 | 261.8879 | -30.8023 | 1.06 | | | 2.4 | 14.45 ± 0.09 | 7.8 ± 0.3 | 7.3 | -7.1 ± 0.1 | a,b,c |
| Terzan 3 | 247.1625 | -35.3398 | 2.11 | | | 4.7 | 14.42 ± 0.09 | 7.6 ± 0.3 | 8.3 | -6.1 ± 0.2 | a,b,c |
| Terzan 4 | 262.6625 | -31.5955 | 1.48 | | | 3.3 | 14.40 ± 0.09 | 7.6 ± 0.3 | 7.1 | -7.3 ± 0.3 | a,b,c |
| Terzan 5 | 267.0202 | -24.7791 | 0.92 | | | 1.8 | 14.10 ± 0.05 | $6.6^{+0.2}_{-0.1}$ | 5.0 | -9.1 ± 0.1 | a,b,c |
| Terzan 6 | 267.6932 | -31.2754 | 0.50 | | | 1.1 | 14.31 ± 0.10 | $7.3^{+0.4}_{-0.3}$ | 7.2 | -7.1 ± 0.1 | a,b,c |

Table 27 continued on next page

Table 27 (*continued*)

| Name | RA | DEC | r_h | ϵ | θ | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-----------|----------|----------|--------|------------|----------|-----------|------------------|----------------------|------|----------------|-------|
| | deg | deg | arcmin | | deg | pc | | kpc | | | |
| Terzan 7 | 289.4330 | -34.6577 | 0.90 | | | 6.4 | 16.93 ± 0.04 | 24.3 ± 0.5 | 11.6 | -5.3 ± 0.0 | a,b,c |
| Terzan 8 | 295.4350 | -33.9995 | 1.89 | | | 15.1 | 17.20 ± 0.03 | 27.5 ± 0.4 | 10.7 | -6.5 ± 0.0 | a,b,c |
| Terzan 9 | 270.4117 | -26.8397 | 0.99 | | | 1.7 | 13.81 ± 0.13 | $5.8^{+0.4}_{-0.3}$ | 7.2 | -6.6 ± 0.1 | a,b,c |
| Terzan 10 | 270.7408 | -26.0669 | 1.16 | | | 3.4 | 15.05 ± 0.09 | 10.2 ± 0.4 | 8.0 | -7.0 ± 0.1 | a,b,c |
| Terzan 12 | 273.0658 | -22.7419 | 1.18 | | | 1.8 | 13.57 ± 0.16 | 5.2 ± 0.4 | 7.5 | -6.1 ± 0.1 | a,b,c |
| Ton 2 | 264.0420 | -38.5561 | 1.41 | | | 2.9 | 14.22 ± 0.10 | 7.0 ± 0.3 | 7.4 | -6.8 ± 0.1 | a,b,c |
| UKS 1 | 268.6133 | -24.1453 | 0.66 | | | 3.0 | 15.96 ± 0.08 | $15.6^{+0.6}_{-0.5}$ | 9.2 | -6.8 | a,b,c |
| Whiting 1 | 30.7375 | -3.2528 | 1.06 | | | 9.4 | 17.43 ± 0.08 | $30.6^{+1.2}_{-1.1}$ | 13.2 | -4.2 ± 0.1 | a,b,c |

NOTE— Citations: (a) [Baumgardt & Hilker \(2018\)](#) (b) [Baumgardt et al. \(2020\)](#) (c) [Baumgardt & Vasiliev \(2021\)](#) (d) [Hamren et al. \(2013\)](#) (e) [Harris \(1996\)](#) (f) [Simpson \(2018\)](#) (g) [Kobulnicky et al. \(2005\)](#) (h) [Kurtev et al. \(2008\)](#) (i) [Strader & Kobulnicky \(2008\)](#) (j) [Pallanca et al. \(2023\)](#) (k) [Leanza et al. \(2024\)](#) (l) [Rosenberg et al. \(1998\)](#)

Table 28. Properties of Milky Way Harris catalog globular clusters

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|--------------|----------|----------|--------------------|-----------------------|-------------------------|---------------------------------|----------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| 2MASS GC-01 | 10.4710 | 0.1001 | -31.3 ± 0.5 | | | | | | | a |
| 2MASS GC-02 | 9.7821 | -0.6152 | -87.0 ± 7.0 | | | | | | | b |
| AM 1 | 258.3613 | -48.4707 | 118.0 ± 14.1 | | -1.70 | | 11.1 ± 0.6 | 0.291 ± 0.107 | -0.177 ± 0.086 | a,c,d,e |
| AM 4 | 320.2830 | 33.5098 | 151.2 ± 2.9 | | -1.30 | | 9.0 ± 0.5 | -0.291 ± 0.445 | -2.512 ± 0.344 | a,f,c,e |
| ARP 2 | 8.5454 | -20.7854 | 122.6 ± 0.3 | | -1.75 | | 12.0 ± 0.5 | -2.331 ± 0.031 | -1.475 ± 0.029 | a,c,d,e |
| BH 176 | 328.4131 | 4.3366 | 90.3 ± 0.3 | | 0.00 | | | -3.989 ± 0.029 | -3.057 ± 0.029 | a,c,e |
| BH 261 | 3.3617 | -5.2704 | -61.0 ± 2.6 | 6.10 ± 1.90 | $-1.07^{+0.11}_{-0.10}$ | < 0.38 | | 3.566 ± 0.043 | -3.590 ± 0.037 | g,e |
| Djorgovski 1 | 356.6750 | -2.4836 | -359.2 ± 1.6 | | -1.51 | | | -4.693 ± 0.046 | -8.468 ± 0.041 | a,c,e |
| Djorgovski 2 | 2.7635 | -2.5083 | -149.8 ± 1.1 | | -1.05 ± 0.08 | | | 0.662 ± 0.042 | -2.983 ± 0.037 | a,h,e |
| E 3 | 292.2682 | -19.0170 | 11.7 ± 0.3 | | -0.83 | | 12.8 ± 1.4 | -2.727 ± 0.027 | 7.083 ± 0.027 | a,f,c,e |
| Eridanus | 218.1060 | -41.3320 | -23.1 ± 0.7 | | -1.43 | | 9.7 ± 0.8 | 0.510 ± 0.039 | -0.301 ± 0.041 | a,c,d,e |
| ESO 280-SC06 | 346.8985 | -12.5710 | 92.5 ± 2.0 | | $-2.48^{+0.06}_{-0.11}$ | | | -0.688 ± 0.039 | -2.777 ± 0.033 | i,e |
| ESO 452-SC11 | 351.9094 | 12.0976 | 16.4 ± 0.4 | | -1.50 | | | -1.423 ± 0.031 | -6.472 ± 0.030 | a,c,e |
| FSR 1735 | 339.1876 | -1.8532 | -69.8 ± 4.9 | | | | | -4.439 ± 0.054 | -1.534 ± 0.048 | a,e |
| Glimpse 1 | 31.3020 | -0.1022 | | | | | | | | |
| Glimpse 2 | 14.1277 | -0.6452 | | | | | | | | |
| HP 1 | 357.4252 | 2.1150 | 39.8 ± 1.2 | | 0.10 | | | 2.523 ± 0.039 | -10.093 ± 0.037 | a,j,e |
| IC 1257 | 16.5278 | 15.1450 | -138.0 ± 2.0 | | -1.70 | | | -1.007 ± 0.040 | -1.492 ± 0.032 | a,c,e |
| IC 1276 | 21.8321 | 5.6683 | 155.1 ± 0.7 | | -0.75 | | | -2.553 ± 0.026 | -4.568 ± 0.026 | a,c,e |
| IC 4499 | 307.3537 | -20.4734 | 38.4 ± 0.3 | | 0.12 | | 12.0 ± 0.8 | 0.466 ± 0.025 | -0.489 ± 0.025 | a,k,l,e |
| Liller 1 | 354.8403 | -0.1606 | 60.4 ± 2.4 | | -0.33 | | | -5.403 ± 0.109 | -7.431 ± 0.077 | a,c,e |
| Lynga 7 | 328.7691 | -2.7973 | 17.9 ± 0.8 | | -1.01 | | 13.5 ± 1.0 | -3.851 ± 0.027 | -7.050 ± 0.027 | a,c,d,e |
| NGC 104 | 305.8947 | -44.8893 | -17.4 ± 0.2 | | -0.72 | | 12.5 ± 0.5 | 5.252 ± 0.021 | -2.551 ± 0.021 | a,c,d,e |
| NGC 288 | 151.2852 | -89.3804 | -44.5 ± 0.1 | | -1.32 | | 11.5 ± 0.4 | 4.164 ± 0.024 | -5.705 ± 0.024 | a,c,d,e |
| NGC 362 | 301.5330 | -46.2474 | 223.1 ± 0.3 | | -1.26 | | 10.9 ± 0.4 | 6.694 ± 0.025 | -2.535 ± 0.024 | a,c,d,e |
| NGC 1261 | 270.5387 | -52.1244 | 71.3 ± 0.2 | | -1.27 | | 10.8 ± 0.4 | 1.596 ± 0.025 | -2.064 ± 0.025 | a,c,d,e |
| NGC 1851 | 244.5132 | -35.0360 | 321.4 ± 1.6 | | -1.18 | | 10.5 ± 0.6 | 2.145 ± 0.024 | -0.650 ± 0.024 | a,c,d,e |

Table 28 continued on next page

Table 28 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------|----------|----------|--------------------|-----------------------|--------|---------------------------------|------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 1904 | 227.2299 | -29.3501 | 205.8 ± 0.2 | | -1.60 | | 11.1 ± 0.9 | 2.469 ± 0.025 | -1.594 ± 0.025 | a,f,c,e |
| NGC 2298 | 245.6286 | -16.0064 | 147.2 ± 0.6 | | -1.92 | | 12.8 ± 0.6 | 3.320 ± 0.025 | -2.175 ± 0.026 | a,c,d,e |
| NGC 2419 | 180.3696 | 25.2415 | -21.1 ± 0.3 | | -2.15 | | 12.7 ± 0.7 | 0.007 ± 0.028 | -0.523 ± 0.026 | a,c,d,e |
| NGC 2808 | 282.1930 | -11.2526 | 103.6 ± 0.3 | | -1.14 | | 10.9 ± 0.6 | 0.994 ± 0.024 | 0.273 ± 0.024 | a,c,d,e |
| NGC 3201 | 277.2288 | 8.6404 | 493.6 ± 0.2 | | -1.59 | | 11.2 ± 0.5 | 8.348 ± 0.022 | -1.958 ± 0.022 | a,c,d,e |
| NGC 4147 | 252.8483 | 77.1895 | 179.3 ± 0.3 | | -1.80 | | 12.1 ± 0.5 | -1.707 ± 0.027 | -2.090 ± 0.027 | a,c,d,e |
| NGC 4372 | 300.9932 | -9.8841 | 75.6 ± 0.3 | | -2.17 | | 12.5 ± 0.9 | -6.409 ± 0.024 | 3.297 ± 0.024 | a,f,c,e |
| NGC 4590 | 299.6258 | 36.0508 | -93.1 ± 0.2 | | -2.23 | | 12.2 ± 0.5 | -2.739 ± 0.024 | 1.779 ± 0.024 | a,c,d,e |
| NGC 4833 | 303.6040 | -8.0154 | 202.0 ± 0.4 | | -1.85 | | 12.7 ± 0.6 | -8.377 ± 0.025 | -0.963 ± 0.025 | a,c,d,e |
| NGC 5024 | 332.9630 | 79.7642 | -63.4 ± 0.2 | | -2.10 | | 12.7 ± 0.4 | -0.133 ± 0.024 | -1.331 ± 0.024 | a,c,d,e |
| NGC 5053 | 335.6988 | 78.9461 | 42.8 ± 0.2 | | -2.27 | | 12.7 ± 0.5 | -0.329 ± 0.025 | -1.213 ± 0.025 | a,c,d,e |
| NGC 5139 | 309.1020 | 14.9683 | 232.8 ± 0.2 | | -1.53 | | 11.5 ± 0.6 | -3.250 ± 0.022 | -6.746 ± 0.022 | a,f,c,e |
| NGC 5272 | 42.2169 | 78.7069 | -147.2 ± 0.3 | | -1.50 | | 11.9 ± 0.4 | -0.152 ± 0.023 | -2.670 ± 0.022 | a,c,d,e |
| NGC 5286 | 311.6142 | 10.5678 | 62.4 ± 0.4 | | -1.69 | | 12.7 ± 0.5 | 0.198 ± 0.025 | -0.153 ± 0.025 | a,c,d,e |
| NGC 5466 | 42.1502 | 73.5922 | 106.8 ± 0.2 | | -1.98 | | 13.0 ± 0.5 | -5.342 ± 0.025 | -0.822 ± 0.024 | a,c,d,e |
| NGC 5634 | 342.2097 | 49.2603 | -16.1 ± 0.6 | | -1.88 | | 11.8 ± 0.5 | -1.692 ± 0.027 | -1.478 ± 0.026 | a,f,c,e |
| NGC 5694 | 331.0556 | 30.3600 | -139.6 ± 0.5 | | -1.98 | | 13.4 ± 0.9 | -0.464 ± 0.029 | -1.105 ± 0.029 | a,f,c,e |
| NGC 5897 | 332.5549 | 22.0705 | -25.2 ± 0.5 | | -1.91 | | 12.8 ± 0.9 | -1.189 ± 0.026 | -2.234 ± 0.026 | a,f,c,e |
| NGC 5897 | 342.9460 | 30.2943 | 101.3 ± 0.2 | | -1.90 | | 12.3 ± 1.2 | -5.422 ± 0.025 | -3.393 ± 0.025 | a,f,c,e |
| NGC 5904 | 3.8587 | 46.7964 | 53.5 ± 0.2 | | -1.29 | | 11.5 ± 0.4 | 4.086 ± 0.023 | -9.870 ± 0.023 | a,c,d,e |
| NGC 5927 | 326.6041 | 4.8598 | -104.1 ± 0.3 | | -0.49 | | 11.9 ± 0.5 | -5.056 ± 0.025 | -3.217 ± 0.025 | a,c,d,e |
| NGC 5946 | 327.5828 | 4.1909 | 137.6 ± 0.9 | | -1.29 | | 11.4 ± 0.9 | -5.331 ± 0.028 | -1.657 ± 0.027 | a,f,c,e |
| NGC 5986 | 337.0222 | 13.2684 | 101.2 ± 0.4 | | -1.59 | | 12.6 ± 0.6 | -4.192 ± 0.026 | -4.568 ± 0.026 | a,c,d,e |
| NGC 6093 | 352.6732 | 19.4630 | 10.9 ± 0.4 | | -1.75 | | 13.0 ± 0.6 | -2.934 ± 0.027 | -5.578 ± 0.026 | a,c,d,e |
| NGC 6101 | 317.7461 | -15.8248 | 366.3 ± 0.3 | | -1.98 | | 12.6 ± 0.5 | 1.756 ± 0.024 | -0.258 ± 0.025 | a,c,d,e |
| NGC 6121 | 350.9729 | 15.9722 | 71.2 ± 0.1 | | -1.16 | | 12.2 ± 0.5 | -12.514 ± 0.023 | -19.022 ± 0.023 | a,c,d,e |
| NGC 6139 | 342.3659 | 6.9388 | 24.4 ± 0.9 | | -1.65 | | | -6.081 ± 0.027 | -2.711 ± 0.026 | a,c,e |
| NGC 6144 | 351.9289 | 15.7006 | 194.8 ± 0.6 | | -1.76 | | 13.4 ± 0.5 | -1.744 ± 0.026 | -2.607 ± 0.026 | a,c,d,e |
| NGC 6171 | 3.3733 | 23.0106 | -34.7 ± 0.2 | | -1.02 | | 12.9 ± 0.6 | -1.939 ± 0.025 | -5.979 ± 0.025 | a,c,d,e |
| NGC 6205 | 59.0074 | 40.9129 | -244.9 ± 0.3 | | -1.53 | | 12.2 ± 0.4 | -3.149 ± 0.023 | -2.574 ± 0.023 | a,c,d,e |

Table 28 continued on next page

Table 28 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------|----------|----------|--------------------|-----------------------|------------------|---------------------------------|----------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 6218 | 15.7152 | 26.3133 | -41.7 ± 0.1 | | -1.37 | | 13.0 ± 0.5 | -0.191 ± 0.024 | -6.802 ± 0.024 | a,c,d,e |
| NGC 6229 | 73.6386 | 40.3063 | -137.9 ± 0.7 | | -1.47 | | | -1.171 ± 0.026 | -0.467 ± 0.027 | a,c,e |
| NGC 6235 | 358.9178 | 13.5182 | 126.7 ± 0.3 | | -1.28 | | 11.4 ± 0.9 | -3.931 ± 0.027 | -7.587 ± 0.027 | a,f,c,e |
| NGC 6254 | 15.1371 | 23.0760 | 74.2 ± 0.2 | | -1.56 | | 12.1 ± 0.6 | -4.758 ± 0.024 | -6.597 ± 0.024 | a,c,d,e |
| NGC 6256 | 347.7920 | 3.3067 | -99.8 ± 0.7 | | -1.02 | | | -3.715 ± 0.031 | -1.637 ± 0.030 | a,c,e |
| NGC 6266 | 353.5746 | 7.3178 | -74.0 ± 0.7 | | -1.18 | | 11.8 ± 0.9 | -4.978 ± 0.026 | -2.947 ± 0.026 | a,f,c,e |
| NGC 6273 | 356.8689 | 9.3823 | 145.5 ± 0.6 | | -1.74 | | 11.9 ± 0.9 | -3.249 ± 0.026 | 1.660 ± 0.025 | a,f,c,e |
| NGC 6284 | 358.3472 | 9.9390 | 28.6 ± 0.7 | | -1.26 | | 11.1 ± 0.9 | -3.200 ± 0.029 | -2.002 ± 0.028 | a,f,c,e |
| NGC 6287 | 0.1316 | 11.0233 | -294.7 ± 1.6 | | -2.10 | | 13.6 ± 0.9 | -5.010 ± 0.029 | -1.883 ± 0.028 | a,f,c,e |
| NGC 6293 | 357.6202 | 7.8343 | -143.7 ± 0.4 | | -1.99 | | | 0.870 ± 0.028 | -4.326 ± 0.028 | a,c,e |
| NGC 6304 | 355.8256 | 5.3755 | -108.6 ± 0.4 | | -0.45 | | 12.5 ± 0.6 | -4.070 ± 0.029 | -1.088 ± 0.028 | a,c,d,e |
| NGC 6316 | 357.1754 | 5.7645 | 99.7 ± 0.8 | | -0.45 | | | -4.969 ± 0.031 | -4.592 ± 0.030 | a,c,e |
| NGC 6325 | 0.9715 | 8.0029 | 29.5 ± 0.6 | | -1.25 | | | -8.289 ± 0.030 | -9.000 ± 0.029 | a,c,e |
| NGC 6333 | 5.5444 | 10.7051 | 310.8 ± 2.1 | | -1.77 | | | -2.180 ± 0.026 | -3.222 ± 0.026 | a,c,e |
| NGC 6341 | 68.3384 | 34.8589 | -120.5 ± 0.3 | | -2.31 | | 13.8 ± 0.8 | -4.935 ± 0.024 | -0.625 ± 0.024 | a,c,e,m |
| NGC 6342 | 4.8982 | 9.7253 | 115.8 ± 0.9 | | -0.55 | | 12.0 ± 0.9 | -2.903 ± 0.027 | -7.116 ± 0.026 | a,f,c,e |
| NGC 6352 | 341.4214 | -7.1662 | -125.6 ± 1.0 | | -0.64 | | 12.1 ± 0.5 | -2.158 ± 0.025 | -4.447 ± 0.025 | a,c,d,e |
| NGC 6355 | 359.5851 | 5.4287 | -195.8 ± 0.6 | | -1.37 | | | -4.738 ± 0.031 | -0.572 ± 0.030 | a,c,e |
| NGC 6356 | 6.7237 | 10.2197 | 48.2 ± 1.8 | | -0.40 | | | -3.750 ± 0.026 | -3.392 ± 0.026 | a,c,e |
| NGC 6362 | 325.5545 | -17.5698 | -14.6 ± 0.2 | | -0.99 | | 12.9 ± 0.4 | -5.506 ± 0.024 | -4.763 ± 0.024 | a,c,d,e |
| NGC 6366 | 18.4086 | 16.0356 | -120.7 ± 0.2 | | -0.59 | | 12.1 ± 0.7 | -0.332 ± 0.025 | -5.160 ± 0.024 | a,c,d,e |
| NGC 6380 | 350.1820 | -3.4219 | -1.5 ± 0.7 | | -0.75 | | | -2.183 ± 0.031 | -3.233 ± 0.030 | a,c,e |
| NGC 6388 | 345.5565 | -6.7377 | 83.1 ± 0.5 | | -0.55 | | 12.0 ± 1.0 | -1.316 ± 0.026 | -2.709 ± 0.026 | a,k,c,e |
| NGC 6397 | 338.1650 | -11.9595 | 18.5 ± 0.1 | | -2.02 | | 13.1 ± 0.4 | 3.260 ± 0.023 | -17.664 ± 0.022 | a,c,d,e |
| NGC 6401 | 3.4504 | 3.9801 | -105.4 ± 2.5 | | -1.00 ± 0.12 | | | -2.748 ± 0.035 | 1.444 ± 0.034 | a,n,e |
| NGC 6402 | 21.3239 | 14.8044 | -60.7 ± 0.5 | | -1.28 | | | -3.590 ± 0.025 | -5.059 ± 0.025 | a,c,e |
| NGC 6426 | 28.0870 | 16.2336 | -210.5 ± 0.5 | | -2.15 | | 12.9 ± 0.9 | -1.828 ± 0.026 | -2.999 ± 0.026 | a,c,d,e |
| NGC 6440 | 7.7287 | 3.8007 | -69.4 ± 0.9 | | -0.36 | | | -1.187 ± 0.036 | -4.020 ± 0.035 | a,c,e |
| NGC 6441 | 353.5322 | -5.0058 | 18.5 ± 0.6 | | -0.46 | | 11.3 ± 0.9 | -2.551 ± 0.028 | -5.348 ± 0.028 | a,k,c,e |
| NGC 6453 | 355.7180 | -3.8722 | -99.2 ± 1.2 | | -1.50 | | | 0.203 ± 0.036 | -5.934 ± 0.037 | a,c,e |

Table 28 continued on next page

Table 28 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|----------|----------|----------|--------------------|-----------------------|--------------|---------------------------------|------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 6496 | 348.0269 | -10.0138 | -134.7 ± 0.3 | | -0.46 | | 11.7 ± 0.5 | -3.060 ± 0.027 | -9.271 ± 0.026 | a,c,d,e |
| NGC 6517 | 19.2252 | 6.7625 | -35.1 ± 1.6 | | -1.23 | | | -1.551 ± 0.029 | -4.470 ± 0.028 | a,c,e |
| NGC 6522 | 1.0246 | -3.9255 | -15.2 ± 0.5 | | -1.34 | | | -6.827 ± 0.059 | -2.588 ± 0.050 | a,c,e |
| NGC 6528 | 1.1386 | -4.1741 | 211.9 ± 0.4 | | -0.11 | | | -2.157 ± 0.043 | -5.649 ± 0.039 | a,c,e |
| NGC 6535 | 27.1755 | 10.4358 | -214.8 ± 0.5 | | -1.79 | | 12.2 ± 0.6 | -4.214 ± 0.027 | -2.939 ± 0.026 | a,c,d,e |
| NGC 6539 | 20.7951 | 6.7757 | 35.2 ± 0.5 | | -0.63 | | | -6.896 ± 0.026 | -3.537 ± 0.026 | a,c,e |
| NGC 6540 | 3.2850 | -3.3129 | -16.5 ± 0.8 | | -1.04 ± 0.15 | | | -3.702 ± 0.032 | -2.791 ± 0.032 | a,n,e |
| NGC 6541 | 349.2861 | -11.1882 | -164.0 ± 0.5 | | -1.81 | | 12.9 ± 0.5 | 0.287 ± 0.025 | -8.847 ± 0.025 | a,c,d,e |
| NGC 6544 | 5.8365 | -2.2024 | -38.5 ± 0.7 | | -1.40 | | 10.4 ± 0.9 | -2.304 ± 0.031 | -18.604 ± 0.030 | a,k,c,e |
| NGC 6553 | 5.2533 | -3.0292 | -0.3 ± 0.3 | | -0.18 | | | 0.344 ± 0.030 | -0.454 ± 0.029 | a,c,e |
| NGC 6558 | 0.1990 | -6.0234 | -195.1 ± 0.7 | | -1.32 | | | -1.720 ± 0.036 | -4.144 ± 0.034 | a,c,e |
| NGC 6569 | 0.4809 | -6.6809 | -48.5 ± 0.3 | | -0.84 ± 0.01 | | | -4.125 ± 0.028 | -7.354 ± 0.028 | o,p,e |
| NGC 6584 | 342.1435 | -16.4139 | 260.6 ± 1.6 | | -1.50 | | 11.8 ± 0.5 | -0.090 ± 0.026 | -7.202 ± 0.025 | a,c,d,e |
| NGC 6624 | 2.7883 | -7.9135 | 54.8 ± 0.4 | | -0.44 | | 12.3 ± 0.5 | 0.124 ± 0.029 | -6.936 ± 0.029 | a,c,d,e |
| NGC 6626 | 7.7982 | -5.5807 | 11.1 ± 0.6 | | -1.32 | | | -0.278 ± 0.028 | -8.922 ± 0.028 | a,c,e |
| NGC 6637 | 1.7229 | -10.2694 | 47.5 ± 1.0 | | -0.64 | | 12.2 ± 0.5 | -5.034 ± 0.028 | -5.832 ± 0.028 | a,c,d,e |
| NGC 6638 | 7.8965 | -7.1530 | 8.6 ± 2.0 | | -0.95 | | | -2.518 ± 0.029 | -4.076 ± 0.029 | a,c,e |
| NGC 6642 | 9.8145 | -6.4393 | -60.6 ± 1.4 | | -1.11 ± 0.25 | | | -0.173 ± 0.030 | -3.892 ± 0.030 | a,n,e |
| NGC 6652 | 1.5339 | -11.3768 | -95.4 ± 0.9 | | -0.81 | | 12.5 ± 0.5 | -5.484 ± 0.027 | -4.274 ± 0.027 | a,c,d,e |
| NGC 6656 | 9.8923 | -7.5517 | -148.7 ± 0.8 | 7.80 | -1.70 | | 12.7 ± 0.6 | 9.851 ± 0.023 | -5.617 ± 0.023 | a,k,c,e |
| NGC 6681 | 2.8529 | -12.5099 | 216.6 ± 0.8 | 5.20 | -1.62 | | 12.8 ± 0.5 | 1.431 ± 0.027 | -4.744 ± 0.026 | a,c,d,e |
| NGC 6712 | 25.3541 | -4.3180 | -107.5 ± 0.3 | 4.30 | -1.02 | | 10.4 ± 1.4 | 3.363 ± 0.027 | -4.436 ± 0.027 | a,k,c,e |
| NGC 6715 | 5.6070 | -14.0871 | 143.1 ± 0.4 | 10.50 | -1.49 | | 11.2 ± 0.6 | -2.679 ± 0.025 | -1.387 ± 0.025 | a,c,d,e |
| NGC 6717 | 12.8760 | -10.9002 | 30.2 ± 0.9 | | -1.26 | | 12.9 ± 0.5 | -3.125 ± 0.027 | -5.008 ± 0.027 | a,c,d,e |
| NGC 6723 | 0.0693 | -17.2989 | -94.4 ± 0.3 | | -1.10 | | 12.8 ± 0.4 | 1.028 ± 0.025 | -2.418 ± 0.025 | a,c,d,e |
| NGC 6749 | 36.2000 | -2.2054 | -58.4 ± 1.0 | | -1.60 | | | -2.829 ± 0.028 | -6.006 ± 0.027 | a,c,e |
| NGC 6752 | 336.4929 | -25.6283 | -26.0 ± 0.1 | 4.90 | -1.54 | | 12.3 ± 0.5 | -3.161 ± 0.022 | -4.027 ± 0.022 | a,c,d,e |
| NGC 6760 | 36.1078 | -3.9243 | -2.4 ± 1.3 | | -0.40 | | | -1.107 ± 0.026 | -3.615 ± 0.026 | a,c,e |
| NGC 6779 | 62.6594 | 8.3364 | -137.0 ± 0.5 | 4.00 | -1.98 | | 13.3 ± 0.5 | -2.018 ± 0.025 | 1.618 ± 0.025 | a,c,d,e |
| NGC 6809 | 8.7926 | -23.2716 | 174.7 ± 0.2 | 4.00 | -1.94 | | 12.9 ± 0.5 | -3.432 ± 0.024 | -9.311 ± 0.024 | a,c,d,e |

Table 28 continued on next page

Table 28 (continued)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|------------|----------|----------|--------------------|--|--------------|---------------------------------|------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| NGC 6838 | 56.7459 | -4.5644 | -22.7 ± 0.2 | 2.30 | -0.78 | | 12.4 ± 0.6 | -3.416 ± 0.025 | -2.656 ± 0.024 | a,c,d,e |
| NGC 6864 | 20.3041 | -25.7472 | -189.5 ± 0.3 | | -1.29 | | 10.0 ± 0.5 | -0.598 ± 0.026 | -2.810 ± 0.026 | k,c,q,e |
| NGC 6934 | 52.1033 | -18.8930 | -406.2 ± 0.7 | 5.10 | -1.47 | | 11.6 ± 0.5 | -2.655 ± 0.026 | -4.689 ± 0.026 | a,c,d,e |
| NGC 6981 | 35.1623 | -32.6831 | -331.4 ± 1.5 | | -1.42 | | 11.7 ± 0.4 | -1.274 ± 0.026 | -3.361 ± 0.026 | a,c,d,e |
| NGC 7006 | 63.7696 | -19.4072 | -383.5 ± 0.7 | | -1.52 | | 12.2 ± 0.8 | -0.128 ± 0.027 | -0.633 ± 0.027 | a,k,c,e |
| NGC 7078 | 65.0126 | -27.3126 | -106.8 ± 0.3 | 13.50 | -2.37 | | 13.0 ± 0.5 | -0.659 ± 0.024 | -3.803 ± 0.024 | a,c,d,e |
| NGC 7089 | 53.3709 | -35.7698 | -3.8 ± 0.3 | 8.20 | -1.65 | | 12.0 ± 0.5 | 3.435 ± 0.025 | -2.159 ± 0.024 | a,c,d,e |
| NGC 7099 | 27.1791 | -46.8355 | -185.2 ± 0.2 | 5.50 | -2.27 | | 13.1 ± 0.5 | -0.737 ± 0.025 | -7.299 ± 0.024 | a,c,d,e |
| NGC 7492 | 53.3863 | -63.4776 | -176.7 ± 0.3 | 1.20 | -1.78 | | 12.0 ± 1.4 | 0.756 ± 0.028 | -2.320 ± 0.028 | a,f,c,e |
| Palomar 1 | 130.0648 | 19.0281 | -75.7 ± 0.3 | | -0.65 | | 7.3 ± 1.1 | -0.252 ± 0.034 | 0.007 ± 0.037 | a,f,c,e |
| Palomar 2 | 170.5302 | -9.0722 | -136.0 ± 1.6 | | -1.42 | | | 1.045 ± 0.034 | -1.522 ± 0.031 | a,c,e |
| Palomar 3 | 240.1404 | 41.8636 | 94.0 ± 0.8 | | -1.63 | | 10.5 ± 0.7 | 0.086 ± 0.060 | -0.148 ± 0.071 | a,c,d,e |
| Palomar 4 | 202.3114 | 71.8012 | 72.4 ± 0.2 | | -1.41 | | 10.2 ± 0.8 | -0.188 ± 0.042 | -0.476 ± 0.041 | a,c,d,e |
| Palomar 5 | 0.8389 | 45.8559 | -58.6 ± 0.1 | 1.10 | -1.41 | | 10.9 ± 0.9 | -2.730 ± 0.028 | -2.654 ± 0.027 | a,c,d,e |
| Palomar 6 | 2.0900 | 1.7788 | 174.3 ± 1.6 | | -1.10 | | 12.5 | -9.222 ± 0.038 | -5.347 ± 0.036 | r,e |
| Palomar 8 | 14.1031 | -6.8007 | -31.5 ± 0.2 | | -0.37 | | | -1.987 ± 0.027 | -5.694 ± 0.027 | a,c,e |
| Palomar 10 | 52.4364 | 2.7249 | -31.7 ± 0.2 | | -0.10 | | | -4.322 ± 0.029 | -7.173 ± 0.029 | a,c,e |
| Palomar 11 | 31.8051 | -15.5759 | -67.6 ± 0.8 | | -0.40 | | | -1.766 ± 0.030 | -4.971 ± 0.028 | a,c,e |
| Palomar 12 | 30.5101 | -47.6816 | 27.9 ± 0.3 | | -0.85 | | 9.1 ± 0.6 | -3.220 ± 0.029 | -3.333 ± 0.028 | a,c,d,e |
| Palomar 13 | 87.1033 | -42.7002 | 25.3 ± 0.2 | 0.60 ^{+0.70} _{-0.50} | -1.60 ± 0.10 | | | 1.748 ± 0.049 | 0.104 ± 0.047 | s,e |
| Palomar 14 | 28.7456 | 42.1915 | 72.3 ± 0.1 | 0.40 | -1.62 | | 10.5 ± 0.6 | -0.463 ± 0.038 | -0.413 ± 0.038 | a,c,d,e |
| Palomar 15 | 18.8486 | 24.3369 | 72.3 ± 1.7 | | -2.07 | | 13.0 ± 1.5 | -0.592 ± 0.037 | -0.901 ± 0.034 | a,k,c,e |
| Pyxis | 261.3212 | 6.9915 | 40.5 ± 0.2 | | -1.20 | | 11.5 ± 1.0 | 1.030 ± 0.032 | 0.138 ± 0.035 | a,k,c,e |
| Rup 106 | 300.8880 | 11.6708 | -38.4 ± 0.3 | | -1.69 ± 0.05 | | 10.8 ± 0.7 | -1.254 ± 0.026 | 0.401 ± 0.026 | a,t,d,e |
| Terzan 1 | 357.5576 | 0.9911 | 56.8 ± 1.6 | | -0.71 ± 0.15 | | | -2.806 ± 0.055 | -4.861 ± 0.055 | a,c,e |
| Terzan 2 | 356.3194 | 2.2981 | 134.6 ± 1.0 | | -0.54 ± 0.10 | | | -2.170 ± 0.041 | -6.263 ± 0.038 | a,n,e |
| Terzan 3 | 345.0841 | 9.1990 | -135.8 ± 0.6 | | -0.74 | | | -5.577 ± 0.027 | -1.760 ± 0.026 | a,c,e |
| Terzan 4 | 356.0240 | 1.3077 | -49.0 ± 1.6 | | -1.41 | | | -5.462 ± 0.060 | -3.711 ± 0.048 | a,c,e |
| Terzan 5 | 3.8395 | 1.6868 | -82.6 ± 0.7 | | -0.34 | | | -1.989 ± 0.068 | -5.243 ± 0.066 | a,c,e |
| Terzan 6 | 358.5713 | -2.1618 | 136.4 ± 1.5 | | -0.56 | | | -4.979 ± 0.048 | -7.431 ± 0.039 | a,c,e |

Table 28 continued on next page

Table 28 (*continued*)

| Name | l | b | v_{los} | σ_{los} | [Fe/H] | $\sigma_{[\text{Fe}/\text{H}]}$ | Age | $\mu_{\alpha*}$ | μ_{δ} | Ref |
|-----------|----------|----------|--------------------|-----------------------|--------------|---------------------------------|-------------------------------------|----------------------|----------------------|---------|
| | deg | deg | km s ⁻¹ | km s ⁻¹ | | | Gyr | mas yr ⁻¹ | mas yr ⁻¹ | |
| Terzan 7 | 3.3868 | -20.0666 | 159.8 ± 0.1 | | -0.32 | | 7.7 ± 0.5 | -3.002 ± 0.029 | -1.651 ± 0.029 | a,c,d,e |
| Terzan 8 | 5.7592 | -24.5588 | 148.4 ± 0.2 | | -2.16 | | 12.9 ± 0.4 | -2.496 ± 0.027 | -1.581 ± 0.026 | a,c,d,e |
| Terzan 9 | 3.6031 | -1.9888 | 68.5 ± 0.6 | | -1.15 ± 0.12 | | | -2.121 ± 0.052 | -7.763 ± 0.049 | a,n,e |
| Terzan 10 | 4.4212 | -1.8643 | 211.4 ± 2.3 | | -1.64 ± 0.09 | | | 2.566 ± 0.039 | -6.438 ± 0.036 | a,n,e |
| Terzan 12 | 8.3581 | -2.1008 | 95.6 ± 1.2 | | -0.48 ± 0.16 | | | -6.222 ± 0.037 | -3.052 ± 0.034 | a,n,e |
| Ton 2 | 350.7934 | -3.4236 | -184.7 ± 1.1 | | -0.57 ± 0.13 | | | -5.904 ± 0.031 | -0.755 ± 0.029 | a,n,e |
| UKS 1 | 5.1254 | 0.7640 | 59.4 ± 2.6 | | -0.64 | | | -2.040 ± 0.095 | -2.754 ± 0.063 | a,c,e |
| Whiting 1 | 161.6176 | -60.6359 | -130.4 ± 1.8 | | | | 6.5 ^{+1.0} _{-0.5} | -0.228 ± 0.065 | -2.046 ± 0.056 | a,u,e |

NOTE— Citations: (a) Baumgardt & Hilker (2018) (b) Kunder et al. (2021) (c) Harris (1996) (d) Kruijssen et al. (2019) (e) Vasiliev & Baumgardt (2021) (f) Forbes & Bridges (2010) (g) Kunder et al. (2024) (h) Kunder & Butler (2020) (i) Simpson (2018) (j) Geisler et al. (2021) (k) Dotter et al. (2011) (l) Hankey & Cole (2011) (m) Ying et al. (2023) (n) Geisler et al. (2023) (o) Johnson et al. (2018) (p) Pallanca et al. (2023) (q) Leanza et al. (2024) (r) Souza et al. (2021) (s) Bradford et al. (2011) (t) Da Costa et al. (1992) (u) Carraro et al. (2007)

Table 29. List of Low Significance Candidates and False Positive Dwarf Galaxies and Star Clusters

| Name | Other Name | RA deg | DEC deg | Host | Original Publication | Classification | False Positive Reference |
|-----------------|--------------------|------------|-------------|----------|---|----------------|--|
| KK 198 | Cen8 PGC166164 | 13:15:55.9 | -45:45:03.6 | NGC 5128 | Karachentseva & Karachentsev (1998) | BG | Müller et al. (2021) |
| KKR 25-GC1 | | 16:13:49.3 | +54:22:05.9 | KKR 25 | Karachentsev et al. (2001b) | BG | Makarov et al. (2012) |
| Candidate X | Object X | 12:53:31.0 | +46:24:56.2 | MW | Koposov et al. (2008) | FP | Martin et al. (2008) |
| Candidate Y | Object Y | 11:12:35.0 | +43:26:24.0 | MW | Koposov et al. (2008) | FP | Martin et al. (2008) |
| Candidate Z | Object Z | 12:53:31.0 | +46:24:56.2 | MW | Koposov et al. (2008) | FP | Martin et al. (2008) |
| SDSS J1329+2841 | | 13:29:13.0 | +28:41:27.0 | MW | Liu et al. (2008) | FP | Drlica-Wagner et al. (2020) |
| SDSS J0821+5608 | | 08:21:15.0 | +56:08:16.0 | MW | Liu et al. (2008) | FP | Drlica-Wagner et al. (2020) |
| SDSS J1058+2843 | | 04:18:05.2 | +28:43:39.2 | MW | Liu et al. (2008) | FP | Martin et al. (2008) Drlica-Wagner et al. (2020) |
| SDSS J0814+5105 | | 08:13:42.0 | +51:05:27.0 | MW | Liu et al. (2008) | FP | Drlica-Wagner et al. (2020) |
| SDSS J1000+5730 | | 10:00:28.0 | +57:30:10.0 | MW | Liu et al. (2008) | FP | Drlica-Wagner et al. (2020) |
| IKN-GC7 | | 10:08:08.9 | +68:28:36.8 | IKN | Tudorica et al. (2015) | BG | Forbes et al. (2024) |
| Indus II | DES J2038-4609 | 20:38:52.8 | -46:09:36.0 | MW | Drlica-Wagner et al. (2015) | FP | Cantu et al. (2021) |
| dw1318-44 | | 13:18:58.0 | -44:53:41.0 | NGC 5128 | Müller et al. (2017) | Cand. | Müller et al. (2019) |
| dw1337-44 | | 13:37:34.0 | -44:13:07.0 | NGC 5128 | Müller et al. (2017) | FP | Müller et al. (2019) |
| dw1331-37 | | 13:31:32.0 | -37:03:29.0 | NGC 5128 | Müller et al. (2017) | Cand. | Müller et al. (2019) |
| DES J0225+0304 | DES Sgr 2 | 02:25:42.4 | +03:04:10.1 | MW | Luque et al. (2017) | FP | Drlica-Wagner et al. (2020) McConnachie & Venn (2020) |
| dw1323-40c | | 13:23:37.0 | -40:43:17.0 | NGC 5128 | Müller et al. (2017) | FP | Müller et al. (2019) |
| DES J0111-1341 | DES 2 DES Sgr 1 | 01:11:10.3 | -13:41:05.4 | MW | Luque et al. (2017) | FP | Pace & Li (2019) Drlica-Wagner et al. (2020) |
| dw1315-45 | | 13:15:56.0 | -45:45:02.0 | NGC 5128 | Müller et al. (2017) | BG | Müller et al. (2019) |
| Camargo 1105 | | 17:36:33.8 | -28:18:39.6 | MW | Camargo (2018) | Cand. | |
| Camargo 1103 | | 18:06:31.4 | -25:09:43.2 | MW | Camargo (2018) | FP | Lim et al. (2022) |
| Camargo 1106 | | 17:32:34.3 | -30:16:48.0 | MW | Camargo (2018) | FP | Lim et al. (2022) |

Table 29 continued on next page

Table 29 (continued)

| Name | Other Name | RA | DEC | Host | Original Publication | Classification | False Positive Reference |
|------|------------|-----|-----|------|----------------------|----------------|--------------------------|
| | | deg | deg | | | | |

NOTE—This table lists known false positive and low significance candidate dwarf galaxies/star clusters. Classification: FP = false positive. Cand = low confidence candidate. BG = higher redshift background galaxy. False positive reference refers to study(s) that showed it was a false positive or showed this object was beyond the local group/local volume.

Table 30. Properties of Low Significance Candidates and False Positive Objects

| Name | RA | DEC | r_h | $r_{1/2}$ | $(m - M)_0$ | d | V | M_V | Ref |
|-----------------|----------|----------|--------|-----------|-------------|-------|------|-------|-----|
| | deg | deg | arcmin | pc | | kpc | | | |
| KK 198 | 198.9830 | -45.7510 | | | | | | | |
| KKR 25-GC1 | 243.4554 | 54.3683 | | | | | 20.6 | | a |
| Candidate X | 193.3790 | 46.4156 | | | | | | | |
| Candidate Y | 168.1460 | 43.4400 | | | | | | | |
| Candidate Z | 193.3790 | 46.4156 | | | | | | | |
| SDSS J1329+2841 | 202.3042 | 28.6908 | 8.80 | 547.3 | 21.65 | 213.8 | 15.5 | -6.2 | b |
| SDSS J0821+5608 | 125.3125 | 56.1378 | 4.30 | 267.4 | 21.65 | 213.8 | 14.3 | -7.4 | b |
| SDSS J1058+2843 | 64.5217 | 28.7276 | 3.10 | 21.6 | 16.90 | 24.0 | 16.7 | -0.2 | c |
| SDSS J0814+5105 | 123.4250 | 51.0908 | 5.40 | 21.7 | 15.70 | 13.8 | 14.9 | -0.8 | b |
| SDSS J1000+5730 | 150.1167 | 57.5028 | 8.30 | 516.2 | 21.65 | 213.8 | 15.4 | -6.2 | b |
| IKN-GC7 | 152.0371 | 68.4769 | | | | | | | |
| Indus II | 309.7200 | -46.1600 | 2.90 | 180.4 | 21.65 | 213.8 | 16.4 | -5.3 | d |
| dw1318-44 | 199.7417 | -44.8947 | 4.80 | | | | 19.9 | | e |
| dw1337-44 | 204.3917 | -44.2186 | 10.30 | | | | 18.1 | | e |
| dw1331-37 | 202.8833 | -37.0581 | 17.80 | | | | 18.9 | | e |
| DES J0225+0304 | 36.4267 | 3.0695 | 2.68 | 18.5 | 16.88 | 23.8 | 15.8 | -1.1 | f |
| dw1323-40c | 200.9042 | -40.7214 | 20.20 | | | | 17.8 | | e |
| DES J0111-1341 | 17.7929 | -13.6848 | 0.59 | 4.6 | 17.12 | 26.5 | 17.4 | 0.3 | f |
| dw1315-45 | 198.9833 | -45.7506 | 9.50 | | | | 17.6 | | e |
| Camargo 1105 | 264.1410 | -28.3110 | | | 13.82 | 5.8 | 7.5 | -6.3 | g |
| Camargo 1103 | 271.6310 | -25.1620 | | | 13.49 | 5.0 | 6.6 | -6.9 | g |
| Camargo 1106 | 263.1430 | -30.2800 | | | 13.27 | 4.5 | 7.6 | -5.7 | g |

NOTE—Column descriptions: **RA** and **Dec**—IRCS, J2000; r_h —Major axis of 2D projected half-light radius; $r_{1/2}$ —spherically averaged half-light radius ($r_{1/2} = R_h \sqrt{1 - \epsilon}$); $(m - M)_0$ —distance modulus; d —distance to satellite; V —V-band magnitude; M_V —absolute V-band magnitude. Errors are not been included in this table and many entries are not included if the object is a known false positive or background galaxy. Citations: (a) [Karachentsev et al. \(2001b\)](#) (b) [Liu et al. \(2008\)](#) (c) [Martin et al. \(2008\)](#) (d) [Drlica-Wagner et al. \(2015\)](#) (e) [Müller et al. \(2017\)](#) (f) [Luque et al. \(2017\)](#) (g) [Camargo \(2018\)](#)

REFERENCES

- Abell, G. O. 1955, *PASP*, 67, 258, doi: [10.1086/126815](https://doi.org/10.1086/126815)
- Adams, E. A. K., & Oosterloo, T. A. 2018, *A&A*, 612, A26, doi: [10.1051/0004-6361/201732017](https://doi.org/10.1051/0004-6361/201732017)
- Alter, G., Hogg, H. S., Ruprecht, F., & Vanýsek, V. 1961, *Bulletin of the Astronomical Institutes of Czechoslovakia*, 12
- Armandroff, T. E., Davies, J. E., & Jacoby, G. H. 1998, *AJ*, 116, 2287, doi: [10.1086/300619](https://doi.org/10.1086/300619)
- Armandroff, T. E., Jacoby, G. H., & Davies, J. E. 1999, *AJ*, 118, 1220, doi: [10.1086/301023](https://doi.org/10.1086/301023)
- Arp, H., & van den Bergh, S. 1960, *PASP*, 72, 48, doi: [10.1086/127473](https://doi.org/10.1086/127473)
- Baade, W. 1944, *ApJ*, 100, 147, doi: [10.1086/144651](https://doi.org/10.1086/144651)
- Balbinot, E., Santiago, B. X., da Costa, L., et al. 2013, *ApJ*, 767, 101, doi: [10.1088/0004-637X/767/2/101](https://doi.org/10.1088/0004-637X/767/2/101)
- Barbá, R. H., Minniti, D., Geisler, D., et al. 2019, *ApJL*, 870, L24, doi: [10.3847/2041-8213/aaf811](https://doi.org/10.3847/2041-8213/aaf811)
- Barnard, E. E. 1884, *Astronomische Nachrichten*, 110, 125, doi: [10.1002/asna.18841100805](https://doi.org/10.1002/asna.18841100805)
- Barnes, D. G., & de Blok, W. J. G. 2001, *AJ*, 122, 825, doi: [10.1086/321170](https://doi.org/10.1086/321170)
- Battaglia, G., Rejkuba, M., Tolstoy, E., Irwin, M. J., & Beccari, G. 2012, *MNRAS*, 424, 1113, doi: [10.1111/j.1365-2966.2012.21286.x](https://doi.org/10.1111/j.1365-2966.2012.21286.x)
- Battaglia, G., Taibi, S., Thomas, G. F., & Fritz, T. K. 2022, *A&A*, 657, A54, doi: [10.1051/0004-6361/202141528](https://doi.org/10.1051/0004-6361/202141528)
- Battistini, P., Bonoli, F., Braccesi, A., et al. 1987, *A&AS*, 67, 447
- Baumgardt, H., & Hilker, M. 2018, *MNRAS*, 478, 1520, doi: [10.1093/mnras/sty1057](https://doi.org/10.1093/mnras/sty1057)
- Baumgardt, H., Sollima, A., & Hilker, M. 2020, *PASA*, 37, e046, doi: [10.1017/pasa.2020.38](https://doi.org/10.1017/pasa.2020.38)
- Baumgardt, H., & Vasiliev, E. 2021, *MNRAS*, 505, 5957, doi: [10.1093/mnras/stab1474](https://doi.org/10.1093/mnras/stab1474)
- Beasley, M. A., Leaman, R., Gallart, C., et al. 2019, *MNRAS*, 487, 1986, doi: [10.1093/mnras/stz1349](https://doi.org/10.1093/mnras/stz1349)
- Bechtol, K., Drlica-Wagner, A., Balbinot, E., et al. 2015, *ApJ*, 807, 50, doi: [10.1088/0004-637X/807/1/50](https://doi.org/10.1088/0004-637X/807/1/50)
- Begum, A., Chengalur, J. N., Karachentsev, I. D., & Sharina, M. E. 2005, *MNRAS*, 359, L53, doi: [10.1111/j.1745-3933.2005.00040.x](https://doi.org/10.1111/j.1745-3933.2005.00040.x)
- Bell, E. F., Slater, C. T., & Martin, N. F. 2011, *ApJL*, 742, L15, doi: [10.1088/2041-8205/742/1/L15](https://doi.org/10.1088/2041-8205/742/1/L15)
- Bell, E. F., Smercina, A., Price, P. A., et al. 2022, *ApJL*, 937, L3, doi: [10.3847/2041-8213/ac8e5e](https://doi.org/10.3847/2041-8213/ac8e5e)
- Bellazzini, M., Gennari, N., & Ferraro, F. R. 2005, *MNRAS*, 360, 185, doi: [10.1111/j.1365-2966.2005.09027.x](https://doi.org/10.1111/j.1365-2966.2005.09027.x)
- Belokurov, V., Irwin, M. J., Koposov, S. E., et al. 2014, *MNRAS*, 441, 2124, doi: [10.1093/mnras/stu626](https://doi.org/10.1093/mnras/stu626)
- Belokurov, V., Zucker, D. B., Evans, N. W., et al. 2006, *ApJL*, 647, L111, doi: [10.1086/507324](https://doi.org/10.1086/507324)
- . 2007, *ApJ*, 654, 897, doi: [10.1086/509718](https://doi.org/10.1086/509718)
- Belokurov, V., Walker, M. G., Evans, N. W., et al. 2008, *ApJL*, 686, L83, doi: [10.1086/592962](https://doi.org/10.1086/592962)
- . 2009, *MNRAS*, 397, 1748, doi: [10.1111/j.1365-2966.2009.15106.x](https://doi.org/10.1111/j.1365-2966.2009.15106.x)
- . 2010, *ApJL*, 712, L103, doi: [10.1088/2041-8205/712/1/L103](https://doi.org/10.1088/2041-8205/712/1/L103)
- Bennet, P., Alfaro-Cuello, M., Pino, A. d., et al. 2022, *ApJ*, 935, 149, doi: [10.3847/1538-4357/ac81c9](https://doi.org/10.3847/1538-4357/ac81c9)
- Bernstein-Cooper, E. Z., Cannon, J. M., Elson, E. C., et al. 2014, *AJ*, 148, 35, doi: [10.1088/0004-6256/148/2/35](https://doi.org/10.1088/0004-6256/148/2/35)
- Bhardwaj, A., Rejkuba, M., Ngeow, C.-C., et al. 2024, *AJ*, 167, 247, doi: [10.3847/1538-3881/ad38b6](https://doi.org/10.3847/1538-3881/ad38b6)
- Bica, E., Claria, J. J., Dottori, H., Santos, J. F. C., J., & Piatti, A. E. 1996, *ApJS*, 102, 57, doi: [10.1086/192251](https://doi.org/10.1086/192251)
- Bica, E., Pavani, D. B., Bonatto, C. J., & Lima, E. F. 2019, *AJ*, 157, 12, doi: [10.3847/1538-3881/aaef8d](https://doi.org/10.3847/1538-3881/aaef8d)
- Boettcher, E., Willman, B., Fadely, R., et al. 2013, *AJ*, 146, 94, doi: [10.1088/0004-6256/146/4/94](https://doi.org/10.1088/0004-6256/146/4/94)
- Bonatto, C., Bica, E., Ortolani, S., & Barbuy, B. 2007, *MNRAS*, 381, L45, doi: [10.1111/j.1745-3933.2007.00363.x](https://doi.org/10.1111/j.1745-3933.2007.00363.x)
- Borissova, J., Chené, A. N., Ramírez Alegría, S., et al. 2014, *A&A*, 569, A24, doi: [10.1051/0004-6361/201322483](https://doi.org/10.1051/0004-6361/201322483)
- Bouchard, A., Jerjen, H., Da Costa, G. S., & Ott, J. 2005, *AJ*, 130, 2058, doi: [10.1086/496977](https://doi.org/10.1086/496977)
- Bradford, J. D., Geha, M., Muñoz, R. R., et al. 2011, *ApJ*, 743, 167, doi: [10.1088/0004-637X/743/2/167](https://doi.org/10.1088/0004-637X/743/2/167)
- Bruce, J., Li, T. S., Pace, A. B., et al. 2023, *ApJ*, 950, 167, doi: [10.3847/1538-4357/acc943](https://doi.org/10.3847/1538-4357/acc943)
- Brüns, C., Kerp, J., Staveley-Smith, L., et al. 2005, *A&A*, 432, 45, doi: [10.1051/0004-6361:20040321](https://doi.org/10.1051/0004-6361:20040321)
- Brunthaler, A., Reid, M. J., Falcke, H., Henkel, C., & Menten, K. M. 2007, *A&A*, 462, 101, doi: [10.1051/0004-6361:20066430](https://doi.org/10.1051/0004-6361:20066430)
- Butler, D. J., & Martínez-Delgado, D. 2005, *AJ*, 129, 2217, doi: [10.1086/429524](https://doi.org/10.1086/429524)
- Butler, E., Kunder, A., Prudil, Z., et al. 2024, *ApJL*, 963, L33, doi: [10.3847/2041-8213/ad20e8](https://doi.org/10.3847/2041-8213/ad20e8)
- Caldwell, N., Armandroff, T. E., Da Costa, G. S., & Seitzer, P. 1998, *AJ*, 115, 535, doi: [10.1086/300233](https://doi.org/10.1086/300233)
- Caldwell, N., Strader, J., Sand, D. J., Willman, B., & Seth, A. C. 2017, *PASA*, 34, e039, doi: [10.1017/pasa.2017.35](https://doi.org/10.1017/pasa.2017.35)
- Camargo, D. 2018, *ApJL*, 860, L27, doi: [10.3847/2041-8213/aacc68](https://doi.org/10.3847/2041-8213/aacc68)
- Camargo, D., & Minniti, D. 2019, *MNRAS*, 484, L90, doi: [10.1093/mnras/slz010](https://doi.org/10.1093/mnras/slz010)

- Cannon, R. D., Hawarden, T. G., & Tritton, S. B. 1977, *MNRAS*, 180, 81P, doi: [10.1093/mnras/180.1.81P](https://doi.org/10.1093/mnras/180.1.81P)
- Cantat-Gaudin, T., Jordi, C., Vallenari, A., et al. 2018, *A&A*, 618, A93, doi: [10.1051/0004-6361/201833476](https://doi.org/10.1051/0004-6361/201833476)
- Canterna, R., & Flower, P. J. 1977, *ApJL*, 212, L57, doi: [10.1086/182374](https://doi.org/10.1086/182374)
- Cantu, S. A., Pace, A. B., Marshall, J., et al. 2021, *ApJ*, 916, 81, doi: [10.3847/1538-4357/ac0443](https://doi.org/10.3847/1538-4357/ac0443)
- Carlin, J. L., Grillmair, C. J., Muñoz, R. R., Nidever, D. L., & Majewski, S. R. 2009, *ApJL*, 702, L9, doi: [10.1088/0004-637X/702/1/L9](https://doi.org/10.1088/0004-637X/702/1/L9)
- Carlin, J. L., & Sand, D. J. 2018, *ApJ*, 865, 7, doi: [10.3847/1538-4357/aad8c1](https://doi.org/10.3847/1538-4357/aad8c1)
- Carlin, J. L., Sand, D. J., Price, P., et al. 2016, *ApJL*, 828, L5, doi: [10.3847/2041-8205/828/1/L5](https://doi.org/10.3847/2041-8205/828/1/L5)
- Carlin, J. L., Sand, D. J., Muñoz, R. R., et al. 2017, *AJ*, 154, 267, doi: [10.3847/1538-3881/aa94d0](https://doi.org/10.3847/1538-3881/aa94d0)
- Carlin, J. L., Garling, C. T., Peter, A. H. G., et al. 2019, *ApJ*, 886, 109, doi: [10.3847/1538-4357/ab4c32](https://doi.org/10.3847/1538-4357/ab4c32)
- Carlin, J. L., Mutlu-Pakdil, B., Crnojević, D., et al. 2021, *ApJ*, 909, 211, doi: [10.3847/1538-4357/abe040](https://doi.org/10.3847/1538-4357/abe040)
- Carlsten, S. G., Greene, J. E., Beaton, R. L., Danieli, S., & Greco, J. P. 2022, *ApJ*, 933, 47, doi: [10.3847/1538-4357/ac6fd7](https://doi.org/10.3847/1538-4357/ac6fd7)
- Carraro, G., Zinn, R., & Moni Bidin, C. 2007, *A&A*, 466, 181, doi: [10.1051/0004-6361:20066825](https://doi.org/10.1051/0004-6361:20066825)
- Carrillo, A., Bell, E. F., Bailin, J., et al. 2017, *MNRAS*, 465, 5026, doi: [10.1093/mnras/stw3025](https://doi.org/10.1093/mnras/stw3025)
- Casey, K. J., Greco, J. P., Peter, A. H. G., & Davis, A. B. 2023, *MNRAS*, 520, 4715, doi: [10.1093/mnras/stad352](https://doi.org/10.1093/mnras/stad352)
- Cerny, W., Pace, A. B., Drlica-Wagner, A., et al. 2021a, *ApJL*, 920, L44, doi: [10.3847/2041-8213/ac2d9a](https://doi.org/10.3847/2041-8213/ac2d9a)
- . 2021b, *ApJ*, 910, 18, doi: [10.3847/1538-4357/abe1af](https://doi.org/10.3847/1538-4357/abe1af)
- Cerny, W., Martínez-Vázquez, C. E., Drlica-Wagner, A., et al. 2023a, *ApJ*, 953, 1, doi: [10.3847/1538-4357/acdd78](https://doi.org/10.3847/1538-4357/acdd78)
- Cerny, W., Simon, J. D., Li, T. S., et al. 2023b, *ApJ*, 942, 111, doi: [10.3847/1538-4357/acalc3](https://doi.org/10.3847/1538-4357/acalc3)
- Cerny, W., Drlica-Wagner, A., Li, T. S., et al. 2023c, *ApJL*, 953, L21, doi: [10.3847/2041-8213/aced84](https://doi.org/10.3847/2041-8213/aced84)
- Cesarsky, D. A., Laustsen, S., Lequeux, J., Schuster, H. E., & West, R. M. 1977, *A&A*, 61, L31
- Charles, E. J. E., Collins, M. L. M., Rich, R. M., et al. 2023, *MNRAS*, 521, 3527, doi: [10.1093/mnras/stad752](https://doi.org/10.1093/mnras/stad752)
- Chiti, A., Simon, J. D., Frebel, A., et al. 2022, *ApJ*, 939, 41, doi: [10.3847/1538-4357/ac96ed](https://doi.org/10.3847/1538-4357/ac96ed)
- Chiti, A., Frebel, A., Simon, J. D., et al. 2021, *Nature Astronomy*, 5, 392, doi: [10.1038/s41550-020-01285-w](https://doi.org/10.1038/s41550-020-01285-w)
- Chiti, A., Frebel, A., Ji, A. P., et al. 2023, *AJ*, 165, 55, doi: [10.3847/1538-3881/aca416](https://doi.org/10.3847/1538-3881/aca416)
- Choi, Y., Nidever, D. L., Olsen, K., et al. 2018, *ApJ*, 869, 125, doi: [10.3847/1538-4357/aaed1f](https://doi.org/10.3847/1538-4357/aaed1f)
- Cioni, M. R. L., van der Marel, R. P., Loup, C., & Habing, H. J. 2000, *A&A*, 359, 601, doi: [10.48550/arXiv.astro-ph/0003223](https://doi.org/10.48550/arXiv.astro-ph/0003223)
- Cole, A. A., Weisz, D. R., Skillman, E. D., et al. 2017, *ApJ*, 837, 54, doi: [10.3847/1538-4357/aa5df6](https://doi.org/10.3847/1538-4357/aa5df6)
- Collins, M. L. M., Charles, E. J. E., Martínez-Delgado, D., et al. 2022, *MNRAS*, 515, L72, doi: [10.1093/mnras/slac063](https://doi.org/10.1093/mnras/slac063)
- Collins, M. L. M., Tollerud, E. J., Rich, R. M., et al. 2020, *MNRAS*, 491, 3496, doi: [10.1093/mnras/stz3252](https://doi.org/10.1093/mnras/stz3252)
- Collins, M. L. M., Chapman, S. C., Rich, R. M., et al. 2013, *ApJ*, 768, 172, doi: [10.1088/0004-637X/768/2/172](https://doi.org/10.1088/0004-637X/768/2/172)
- Collins, M. L. M., Read, J. I., Ibata, R. A., et al. 2021, *MNRAS*, 505, 5686, doi: [10.1093/mnras/stab1624](https://doi.org/10.1093/mnras/stab1624)
- Collins, M. L. M., Karim, N., Martínez-Delgado, D., et al. 2024, *MNRAS*, 528, 2614, doi: [10.1093/mnras/stae199](https://doi.org/10.1093/mnras/stae199)
- Conn, B. C., Jerjen, H., Kim, D., & Schirmer, M. 2018, *ApJ*, 852, 68, doi: [10.3847/1538-4357/aa9eda](https://doi.org/10.3847/1538-4357/aa9eda)
- Correnti, M., Bellazzini, M., & Ferraro, F. R. 2009, *MNRAS*, 397, L26, doi: [10.1111/j.1745-3933.2009.00677.x](https://doi.org/10.1111/j.1745-3933.2009.00677.x)
- Correnti, M., Goudfrooij, P., Kalirai, J. S., et al. 2014, *ApJ*, 793, 121, doi: [10.1088/0004-637X/793/2/121](https://doi.org/10.1088/0004-637X/793/2/121)
- Corwin, H. G., de Vaucouleurs, A., & de Vaucouleurs, G. 1985, *Southern galaxy catalogue. A catalogue of 5481 galaxies south of declination -17 grad. found on 1.2m UK Schmidt IIIa J plates*
- Cote, S., Freeman, K. C., Carignan, C., & Quinn, P. J. 1997, *AJ*, 114, 1313, doi: [10.1086/118565](https://doi.org/10.1086/118565)
- Crnojević, D., Sand, D. J., Zaritsky, D., et al. 2016a, *ApJL*, 824, L14, doi: [10.3847/2041-8205/824/1/L14](https://doi.org/10.3847/2041-8205/824/1/L14)
- Crnojević, D., Sand, D. J., Caldwell, N., et al. 2014, *ApJL*, 795, L35, doi: [10.1088/2041-8205/795/2/L35](https://doi.org/10.1088/2041-8205/795/2/L35)
- Crnojević, D., Sand, D. J., Spekkens, K., et al. 2016b, *ApJ*, 823, 19, doi: [10.3847/0004-637X/823/1/19](https://doi.org/10.3847/0004-637X/823/1/19)
- Crnojević, D., Sand, D. J., Bennet, P., et al. 2019, *ApJ*, 872, 80, doi: [10.3847/1538-4357/aafbe7](https://doi.org/10.3847/1538-4357/aafbe7)
- Cusano, F., Garofalo, A., Clementini, G., et al. 2016, *ApJ*, 829, 26, doi: [10.3847/0004-637X/829/1/26](https://doi.org/10.3847/0004-637X/829/1/26)
- Da Costa, G. S. 1995, *PASP*, 107, 937, doi: [10.1086/133642](https://doi.org/10.1086/133642)
- Da Costa, G. S., Armandroff, T. E., & Norris, J. E. 1992, *AJ*, 104, 154, doi: [10.1086/116227](https://doi.org/10.1086/116227)
- Da Costa, G. S., Grebel, E. K., Jerjen, H., Rejkuba, M., & Sharina, M. E. 2009, *AJ*, 137, 4361, doi: [10.1088/0004-6256/137/5/4361](https://doi.org/10.1088/0004-6256/137/5/4361)
- Da Costa, G. S., & Mould, J. R. 1988, *ApJ*, 334, 159, doi: [10.1086/166826](https://doi.org/10.1086/166826)
- Dalcanton, J. J., Williams, B. F., Seth, A. C., et al. 2009, *ApJS*, 183, 67, doi: [10.1088/0067-0049/183/1/67](https://doi.org/10.1088/0067-0049/183/1/67)

- Dall’Ora, M., Clementini, G., Kinemuchi, K., et al. 2006, *ApJL*, 653, L109, doi: [10.1086/510665](https://doi.org/10.1086/510665)
- Dall’Ora, M., Kinemuchi, K., Ripepi, V., et al. 2012, *ApJ*, 752, 42, doi: [10.1088/0004-637X/752/1/42](https://doi.org/10.1088/0004-637X/752/1/42)
- de Boer, T. J. L., & Fraser, M. 2016, *A&A*, 590, A35, doi: [10.1051/0004-6361/201527580](https://doi.org/10.1051/0004-6361/201527580)
- de Vaucouleurs, G., de Vaucouleurs, A., Corwin, Herold G., J., et al. 1991, *Third Reference Catalogue of Bright Galaxies*
- Dias, B., Palma, T., Minniti, D., et al. 2022, *A&A*, 657, A67, doi: [10.1051/0004-6361/202141580](https://doi.org/10.1051/0004-6361/202141580)
- Djorgovski, S. 1987, *ApJL*, 317, L13, doi: [10.1086/184903](https://doi.org/10.1086/184903)
- Dotter, A., Sarajedini, A., & Anderson, J. 2011, *ApJ*, 738, 74, doi: [10.1088/0004-637X/738/1/74](https://doi.org/10.1088/0004-637X/738/1/74)
- Drlica-Wagner, A., Bechtol, K., Rykoff, E. S., et al. 2015, *ApJ*, 813, 109, doi: [10.1088/0004-637X/813/2/109](https://doi.org/10.1088/0004-637X/813/2/109)
- Drlica-Wagner, A., Bechtol, K., Allam, S., et al. 2016, *ApJL*, 833, L5, doi: [10.3847/2041-8205/833/1/L5](https://doi.org/10.3847/2041-8205/833/1/L5)
- Drlica-Wagner, A., Bechtol, K., Mau, S., et al. 2020, *ApJ*, 893, 47, doi: [10.3847/1538-4357/ab7eb9](https://doi.org/10.3847/1538-4357/ab7eb9)
- Dumont, A., Seth, A. C., Strader, J., et al. 2022, *ApJ*, 929, 147, doi: [10.3847/1538-4357/ac551c](https://doi.org/10.3847/1538-4357/ac551c)
- Dunlop, J. 1828, *Philosophical Transactions of the Royal Society of London Series I*, 118, 113
- Eadie, G. M., Harris, W. E., & Springford, A. 2022, *ApJ*, 926, 162, doi: [10.3847/1538-4357/ac33b0](https://doi.org/10.3847/1538-4357/ac33b0)
- Fadely, R., Willman, B., Geha, M., et al. 2011, *AJ*, 142, 88, doi: [10.1088/0004-6256/142/3/88](https://doi.org/10.1088/0004-6256/142/3/88)
- Fahrion, K., Müller, O., Rejkuba, M., et al. 2020, *A&A*, 634, A53, doi: [10.1051/0004-6361/201937120](https://doi.org/10.1051/0004-6361/201937120)
- Forbes, D. A., & Bridges, T. 2010, *MNRAS*, 404, 1203, doi: [10.1111/j.1365-2966.2010.16373.x](https://doi.org/10.1111/j.1365-2966.2010.16373.x)
- Forbes, D. A., Lyon, D., Gannon, J., Romanowsky, A. J., & Brodie, J. P. 2024, *arXiv e-prints*, arXiv:2405.11749, doi: [10.48550/arXiv.2405.11749](https://doi.org/10.48550/arXiv.2405.11749)
- Ford, H. C., Jacoby, G., & Jenner, D. C. 1977, *ApJ*, 213, 18, doi: [10.1086/155123](https://doi.org/10.1086/155123)
- Fritz, T. K., Carrera, R., Battaglia, G., & Taibi, S. 2019, *A&A*, 623, A129, doi: [10.1051/0004-6361/201833458](https://doi.org/10.1051/0004-6361/201833458)
- Froebrich, D., Scholz, A., & Raftery, C. L. 2007, *MNRAS*, 374, 399, doi: [10.1111/j.1365-2966.2006.11148.x](https://doi.org/10.1111/j.1365-2966.2006.11148.x)
- Gaia Collaboration, Helmi, A., van Leeuwen, F., et al. 2018, *A&A*, 616, A12, doi: [10.1051/0004-6361/201832698](https://doi.org/10.1051/0004-6361/201832698)
- Garling, C. T., Peter, A. H. G., Kochanek, C. S., Sand, D. J., & Crnojević, D. 2020, *MNRAS*, 492, 1713, doi: [10.1093/mnras/stz3526](https://doi.org/10.1093/mnras/stz3526)
- Garofalo, A., Cusano, F., Clementini, G., et al. 2013, *ApJ*, 767, 62, doi: [10.1088/0004-637X/767/1/62](https://doi.org/10.1088/0004-637X/767/1/62)
- Garro, E. R., Minniti, D., Gómez, M., et al. 2021, *A&A*, 649, A86, doi: [10.1051/0004-6361/202039255](https://doi.org/10.1051/0004-6361/202039255)
- . 2022a, *A&A*, 658, A120, doi: [10.1051/0004-6361/202141819](https://doi.org/10.1051/0004-6361/202141819)
- . 2022b, *A&A*, 662, A95, doi: [10.1051/0004-6361/202243342](https://doi.org/10.1051/0004-6361/202243342)
- . 2020, *A&A*, 642, L19, doi: [10.1051/0004-6361/202039233](https://doi.org/10.1051/0004-6361/202039233)
- Garro, E. R., Minniti, D., Alessi, B., et al. 2022c, *A&A*, 659, A155, doi: [10.1051/0004-6361/202142248](https://doi.org/10.1051/0004-6361/202142248)
- Garro, E. R., Fernández-Trincado, J. G., Minniti, D., et al. 2023, *A&A*, 669, A136, doi: [10.1051/0004-6361/202245119](https://doi.org/10.1051/0004-6361/202245119)
- Gatto, M., Ripepi, V., Bellazzini, M., et al. 2021, *Research Notes of the American Astronomical Society*, 5, 159, doi: [10.3847/2515-5172/ac14bf](https://doi.org/10.3847/2515-5172/ac14bf)
- . 2022, *ApJL*, 929, L21, doi: [10.3847/2041-8213/ac6421](https://doi.org/10.3847/2041-8213/ac6421)
- Gatto, M., Bellazzini, M., Tortora, C., et al. 2024, *A&A*, 681, L13, doi: [10.1051/0004-6361/202348554](https://doi.org/10.1051/0004-6361/202348554)
- Geisler, D., Villanova, S., O’Connell, J. E., et al. 2021, *A&A*, 652, A157, doi: [10.1051/0004-6361/202140436](https://doi.org/10.1051/0004-6361/202140436)
- Geisler, D., Parisi, M. C., Dias, B., et al. 2023, *A&A*, 669, A115, doi: [10.1051/0004-6361/202244959](https://doi.org/10.1051/0004-6361/202244959)
- Georgiev, I. Y., Puzia, T. H., Hilker, M., & Goudfrooij, P. 2009, *MNRAS*, 392, 879, doi: [10.1111/j.1365-2966.2008.14104.x](https://doi.org/10.1111/j.1365-2966.2008.14104.x)
- Giovanelli, R., Haynes, M. P., Adams, E. A. K., et al. 2013, *AJ*, 146, 15, doi: [10.1088/0004-6256/146/1/15](https://doi.org/10.1088/0004-6256/146/1/15)
- Glatt, K., Grebel, E. K., Gallagher, John S., I., et al. 2009, *AJ*, 138, 1403, doi: [10.1088/0004-6256/138/5/1403](https://doi.org/10.1088/0004-6256/138/5/1403)
- Goudfrooij, P., Gilmore, D., Kissler-Patig, M., & Maraston, C. 2006, *MNRAS*, 369, 697, doi: [10.1111/j.1365-2966.2006.10314.x](https://doi.org/10.1111/j.1365-2966.2006.10314.x)
- Goudfrooij, P., Girardi, L., Kozhurina-Platais, V., et al. 2014, *ApJ*, 797, 35, doi: [10.1088/0004-637X/797/1/35](https://doi.org/10.1088/0004-637X/797/1/35)
- Gran, F., Zoccali, M., Contreras Ramos, R., et al. 2019, *A&A*, 628, A45, doi: [10.1051/0004-6361/201834986](https://doi.org/10.1051/0004-6361/201834986)
- Gran, F., Zoccali, M., Saviane, I., et al. 2022, *MNRAS*, 509, 4962, doi: [10.1093/mnras/stab2463](https://doi.org/10.1093/mnras/stab2463)
- Gran, F., Kordopatis, G., Zoccali, M., et al. 2024, *A&A*, 683, A167, doi: [10.1051/0004-6361/202347915](https://doi.org/10.1051/0004-6361/202347915)
- Grebel, E. K., Dolphin, A. E., & Guhathakurta, P. 2000, in *Astronomische Gesellschaft Meeting Abstracts*, Vol. 17, *Astronomische Gesellschaft Meeting Abstracts*
- Greco, C., Clementini, G., Catelan, M., et al. 2007, *ApJ*, 670, 332, doi: [10.1086/522102](https://doi.org/10.1086/522102)
- Greco, C., Dall’Ora, M., Clementini, G., et al. 2008, *ApJL*, 675, L73, doi: [10.1086/533585](https://doi.org/10.1086/533585)
- Greggio, L., Marconi, G., Tosi, M., & Focardi, P. 1993, *AJ*, 105, 894, doi: [10.1086/116481](https://doi.org/10.1086/116481)
- Grillmair, C. J. 2006, *ApJL*, 645, L37, doi: [10.1086/505863](https://doi.org/10.1086/505863)

- . 2009, *ApJ*, 693, 1118, doi: [10.1088/0004-637X/693/2/1118](https://doi.org/10.1088/0004-637X/693/2/1118)
- Grocholski, A. J., Cole, A. A., Sarajedini, A., Geisler, D., & Smith, V. V. 2006, *AJ*, 132, 1630, doi: [10.1086/507303](https://doi.org/10.1086/507303)
- Grocholski, A. J., Sarajedini, A., Olsen, K. A. G., Tiede, G. P., & Mancone, C. L. 2007, *AJ*, 134, 680, doi: [10.1086/519735](https://doi.org/10.1086/519735)
- Gvozdenko, A., Larsen, S. S., Beasley, M. A., et al. 2024, *A&A*, 685, A154, doi: [10.1051/0004-6361/202346859](https://doi.org/10.1051/0004-6361/202346859)
- Hamren, K. M., Smith, G. H., Guhathakurta, P., et al. 2013, *AJ*, 146, 116, doi: [10.1088/0004-6256/146/5/116](https://doi.org/10.1088/0004-6256/146/5/116)
- Hankey, W. J., & Cole, A. A. 2011, *MNRAS*, 411, 1536, doi: [10.1111/j.1365-2966.2010.17788.x](https://doi.org/10.1111/j.1365-2966.2010.17788.x)
- Hansen, T. T., Simon, J. D., Li, T. S., et al. 2024, arXiv e-prints, arXiv:2403.13060. <https://arxiv.org/abs/2403.13060>
- Hargis, J. R., Albers, S., Crnojević, D., et al. 2020, *ApJ*, 888, 31, doi: [10.3847/1538-4357/ab58d2](https://doi.org/10.3847/1538-4357/ab58d2)
- Harrington, R. G., & Wilson, A. G. 1950, *PASP*, 62, 118, doi: [10.1086/126249](https://doi.org/10.1086/126249)
- Harris, J., & Zaritsky, D. 2006, *AJ*, 131, 2514, doi: [10.1086/500974](https://doi.org/10.1086/500974)
- Harris, W. E. 1996, *AJ*, 112, 1487, doi: [10.1086/118116](https://doi.org/10.1086/118116)
- Heiger, M. E., Li, T. S., Pace, A. B., et al. 2024, *ApJ*, 961, 234, doi: [10.3847/1538-4357/ad0cf7](https://doi.org/10.3847/1538-4357/ad0cf7)
- Henning, P. A., Staveley-Smith, L., Ekers, R. D., et al. 2000, *AJ*, 119, 2686, doi: [10.1086/301374](https://doi.org/10.1086/301374)
- Herschel, J. F. W. 1833, *Philosophical Transactions of the Royal Society of London Series I*, 123, 359
- Herschel, John Frederick William, S. 1847, *Results of astronomical observations made during the years 1834, 5, 6, 7, 8, at the Cape of Good Hope; being the completion of a telescopic survey of the whole surface of the visible heavens, commenced in 1825*
- Herschel, W. 1786, *Philosophical Transactions of the Royal Society of London Series I*, 76, 457
- . 1789, *Philosophical Transactions of the Royal Society of London Series I*, 79, 212
- . 1802, *Philosophical Transactions of the Royal Society of London Series I*, 92, 477
- Higgs, C. R., McConnachie, A. W., Annau, N., et al. 2021, *MNRAS*, 503, 176, doi: [10.1093/mnras/stab002](https://doi.org/10.1093/mnras/stab002)
- Ho, N., Geha, M., Munoz, R. R., et al. 2012, *ApJ*, 758, 124, doi: [10.1088/0004-637X/758/2/124](https://doi.org/10.1088/0004-637X/758/2/124)
- Hodge, P. W. 1960, *ApJ*, 131, 351, doi: [10.1086/146838](https://doi.org/10.1086/146838)
- . 1961, *AJ*, 66, 83, doi: [10.1086/108378](https://doi.org/10.1086/108378)
- . 1974, *PASP*, 86, 289, doi: [10.1086/129602](https://doi.org/10.1086/129602)
- . 1976, *AJ*, 81, 25, doi: [10.1086/111848](https://doi.org/10.1086/111848)
- Hodge, P. W., Dolphin, A. E., Smith, T. R., & Mateo, M. 1999, *ApJ*, 521, 577, doi: [10.1086/307595](https://doi.org/10.1086/307595)
- Hoessel, J. G., & Mould, J. R. 1982, *ApJ*, 254, 38, doi: [10.1086/159702](https://doi.org/10.1086/159702)
- Hoffman, G. L., Salpeter, E. E., Farhat, B., et al. 1996, *ApJS*, 105, 269, doi: [10.1086/192314](https://doi.org/10.1086/192314)
- Holmberg, E. 1958, *Medd. Lunds Astron. Obs. Ser.*, II, 128
- Holmberg, E. B., Lauberts, A., Schuster, H. E., & West, R. M. 1977, *A&AS*, 27, 295
- . 1978, *A&AS*, 34, 285
- Homma, D., Chiba, M., Okamoto, S., et al. 2016, *ApJ*, 832, 21, doi: [10.3847/0004-637X/832/1/21](https://doi.org/10.3847/0004-637X/832/1/21)
- . 2018, *PASJ*, 70, S18, doi: [10.1093/pasj/psx050](https://doi.org/10.1093/pasj/psx050)
- Homma, D., Chiba, M., Komiyama, Y., et al. 2019, *PASJ*, 71, 94, doi: [10.1093/pasj/psz076](https://doi.org/10.1093/pasj/psz076)
- . 2023, arXiv e-prints, arXiv:2311.05439. <https://arxiv.org/abs/2311.05439>
- Hubble, E. 1932, *ApJ*, 76, 44, doi: [10.1086/143397](https://doi.org/10.1086/143397)
- Hubble, E. P. 1925, *ApJ*, 62, 409, doi: [10.1086/142943](https://doi.org/10.1086/142943)
- Humason, M. L., Mayall, N. U., & Sandage, A. R. 1956, *AJ*, 61, 97, doi: [10.1086/107297](https://doi.org/10.1086/107297)
- Hurt, R. L., Jarrett, T. H., Kirkpatrick, J. D., et al. 2000, *AJ*, 120, 1876, doi: [10.1086/301549](https://doi.org/10.1086/301549)
- Huxor, A. P., Ferguson, A. M. N., Veljanoski, J., Mackey, A. D., & Tanvir, N. R. 2013, *MNRAS*, 429, 1039, doi: [10.1093/mnras/sts387](https://doi.org/10.1093/mnras/sts387)
- Hwang, N., Lee, M. G., Lee, J. C., et al. 2011, *ApJ*, 738, 58, doi: [10.1088/0004-637X/738/1/58](https://doi.org/10.1088/0004-637X/738/1/58)
- Hwang, N., Park, H. S., Lee, M. G., et al. 2014, *ApJ*, 783, 49, doi: [10.1088/0004-637X/783/1/49](https://doi.org/10.1088/0004-637X/783/1/49)
- Ibata, R., Martin, N. F., Irwin, M., et al. 2007, *ApJ*, 671, 1591, doi: [10.1086/522574](https://doi.org/10.1086/522574)
- Ibata, R. A., Gilmore, G., & Irwin, M. J. 1994, *Nature*, 370, 194, doi: [10.1038/370194a0](https://doi.org/10.1038/370194a0)
- Irwin, M. J., Bunclark, P. S., Bridgeland, M. T., & McMahon, R. G. 1990, *MNRAS*, 244, 16P
- Irwin, M. J., Demers, S., & Kunkel, W. E. 1995, *ApJL*, 453, L21, doi: [10.1086/513301](https://doi.org/10.1086/513301)
- Irwin, M. J., Ferguson, A. M. N., Huxor, A. P., et al. 2008, *ApJL*, 676, L17, doi: [10.1086/587100](https://doi.org/10.1086/587100)
- Irwin, M. J., Belokurov, V., Evans, N. W., et al. 2007, *ApJL*, 656, L13, doi: [10.1086/512183](https://doi.org/10.1086/512183)
- Jacobs, B. A., Rizzi, L., Tully, R. B., et al. 2009, *AJ*, 138, 332, doi: [10.1088/0004-6256/138/2/332](https://doi.org/10.1088/0004-6256/138/2/332)
- Jenkins, S. A., Li, T. S., Pace, A. B., et al. 2021, *ApJ*, 920, 92, doi: [10.3847/1538-4357/ac1353](https://doi.org/10.3847/1538-4357/ac1353)
- Jerjen, H., Binggeli, B., & Freeman, K. C. 2000a, *AJ*, 119, 593, doi: [10.1086/301216](https://doi.org/10.1086/301216)
- Jerjen, H., Freeman, K. C., & Binggeli, B. 2000b, *AJ*, 119, 166, doi: [10.1086/301188](https://doi.org/10.1086/301188)
- Ji, A. P., Koposov, S. E., Li, T. S., et al. 2021, *ApJ*, 921, 32, doi: [10.3847/1538-4357/ac1869](https://doi.org/10.3847/1538-4357/ac1869)

- Johnson, C. I., Rich, R. M., Caldwell, N., et al. 2018, *AJ*, 155, 71, doi: [10.3847/1538-3881/aaa294](https://doi.org/10.3847/1538-3881/aaa294)
- Johnson, J. A., Ivans, I. I., & Stetson, P. B. 2006, *ApJ*, 640, 801, doi: [10.1086/498882](https://doi.org/10.1086/498882)
- Jones, M. G., Mutlu-Pakdil, B., Sand, D. J., et al. 2023, *ApJL*, 957, L5, doi: [10.3847/2041-8213/ad0130](https://doi.org/10.3847/2041-8213/ad0130)
- Júlio, M. P., Pawlowski, M. S., Sohn, S. T., et al. 2024, arXiv e-prints, arXiv:2404.16110.
<https://arxiv.org/abs/2404.16110>
- Kacharov, N., Battaglia, G., Rejkuba, M., et al. 2017, *MNRAS*, 466, 2006, doi: [10.1093/mnras/stw3188](https://doi.org/10.1093/mnras/stw3188)
- Kallivayalil, N., van der Marel, R. P., Besla, G., Anderson, J., & Alcock, C. 2013, *ApJ*, 764, 161, doi: [10.1088/0004-637X/764/2/161](https://doi.org/10.1088/0004-637X/764/2/161)
- Karachentsev, I. D., & Karachentseva, V. E. 1999, *A&A*, 341, 355
- Karachentsev, I. D., Karachentseva, V. E., & Huchtmeier, W. K. 2001a, *A&A*, 366, 428, doi: [10.1051/0004-6361/20000262](https://doi.org/10.1051/0004-6361/20000262)
- Karachentsev, I. D., Karachentseva, V. E., Huchtmeier, W. K., & Makarov, D. I. 2004, *AJ*, 127, 2031, doi: [10.1086/382905](https://doi.org/10.1086/382905)
- Karachentsev, I. D., Kniazev, A. Y., & Sharina, M. E. 2015a, *Astronomische Nachrichten*, 336, 707, doi: [10.1002/asna.201512207](https://doi.org/10.1002/asna.201512207)
- Karachentsev, I. D., Makarov, D. I., & Kaisina, E. I. 2013a, *AJ*, 145, 101, doi: [10.1088/0004-6256/145/4/101](https://doi.org/10.1088/0004-6256/145/4/101)
- . 2013b, *AJ*, 145, 101, doi: [10.1088/0004-6256/145/4/101](https://doi.org/10.1088/0004-6256/145/4/101)
- Karachentsev, I. D., Makarova, L. N., Brent Tully, R., et al. 2020, *A&A*, 638, A111, doi: [10.1051/0004-6361/202037993](https://doi.org/10.1051/0004-6361/202037993)
- Karachentsev, I. D., Makarova, L. N., Makarov, D. I., Tully, R. B., & Rizzi, L. 2015b, *MNRAS*, 447, L85, doi: [10.1093/mnras/slu181](https://doi.org/10.1093/mnras/slu181)
- Karachentsev, I. D., Makarova, L. N., Tully, R. B., Wu, P.-F., & Kniazev, A. Y. 2014, *MNRAS*, 443, 1281, doi: [10.1093/mnras/stu1217](https://doi.org/10.1093/mnras/stu1217)
- Karachentsev, I. D., Tully, R. B., Anand, G. S., Rizzi, L., & Shaya, E. J. 2021, *AJ*, 161, 205, doi: [10.3847/1538-3881/abe8d1](https://doi.org/10.3847/1538-3881/abe8d1)
- Karachentsev, I. D., Sharina, M. E., Dolphin, A. E., et al. 2001b, *A&A*, 379, 407, doi: [10.1051/0004-6361/20011344](https://doi.org/10.1051/0004-6361/20011344)
- Karachentsev, I. D., Dolphin, A., Tully, R. B., et al. 2006, *AJ*, 131, 1361, doi: [10.1086/500013](https://doi.org/10.1086/500013)
- Karachentseva, V. E. 1968, *Communications of the Byurakan Astrophysical Observatory*, 39, 61
- . 1976, *Soobshcheniya Spetsial'noj Astrofizicheskoy Observatorii*, 18, 42
- Karachentseva, V. E., & Karachentsev, I. D. 1998, *A&AS*, 127, 409, doi: [10.1051/aas:1998109](https://doi.org/10.1051/aas:1998109)
- . 2000, *A&AS*, 146, 359, doi: [10.1051/aas:2000275](https://doi.org/10.1051/aas:2000275)
- Karachentseva, V. E., Karachentsev, I. D., & Richter, G. M. 1999, *A&AS*, 135, 221, doi: [10.1051/aas:1999173](https://doi.org/10.1051/aas:1999173)
- Karczmarek, P., Pietrzyński, G., Gieren, W., et al. 2015, *AJ*, 150, 90, doi: [10.1088/0004-6256/150/3/90](https://doi.org/10.1088/0004-6256/150/3/90)
- Kharchenko, N. V., Piskunov, A. E., Schilbach, E., Röser, S., & Scholz, R. D. 2013, *A&A*, 558, A53, doi: [10.1051/0004-6361/201322302](https://doi.org/10.1051/0004-6361/201322302)
- Kim, D., & Jerjen, H. 2015a, *ApJL*, 808, L39, doi: [10.1088/2041-8205/808/2/L39](https://doi.org/10.1088/2041-8205/808/2/L39)
- . 2015b, *ApJ*, 799, 73, doi: [10.1088/0004-637X/799/1/73](https://doi.org/10.1088/0004-637X/799/1/73)
- Kim, D., Jerjen, H., Mackey, D., Da Costa, G. S., & Milone, A. P. 2015a, *ApJL*, 804, L44, doi: [10.1088/2041-8205/804/2/L44](https://doi.org/10.1088/2041-8205/804/2/L44)
- . 2016a, *ApJ*, 820, 119, doi: [10.3847/0004-637X/820/2/119](https://doi.org/10.3847/0004-637X/820/2/119)
- Kim, D., Jerjen, H., Milone, A. P., Mackey, D., & Da Costa, G. S. 2015b, *ApJ*, 803, 63, doi: [10.1088/0004-637X/803/2/63](https://doi.org/10.1088/0004-637X/803/2/63)
- Kim, D., Jerjen, H., Geha, M., et al. 2016b, *ApJ*, 833, 16, doi: [10.3847/0004-637X/833/1/16](https://doi.org/10.3847/0004-637X/833/1/16)
- Kirby, E. N., Boylan-Kolchin, M., Cohen, J. G., et al. 2013a, *ApJ*, 770, 16, doi: [10.1088/0004-637X/770/1/16](https://doi.org/10.1088/0004-637X/770/1/16)
- Kirby, E. N., Bullock, J. S., Boylan-Kolchin, M., Kaplinghat, M., & Cohen, J. G. 2014, *MNRAS*, 439, 1015, doi: [10.1093/mnras/stu025](https://doi.org/10.1093/mnras/stu025)
- Kirby, E. N., Cohen, J. G., Guhathakurta, P., et al. 2013b, *ApJ*, 779, 102, doi: [10.1088/0004-637X/779/2/102](https://doi.org/10.1088/0004-637X/779/2/102)
- Kirby, E. N., Cohen, J. G., Simon, J. D., et al. 2017a, *ApJ*, 838, 83, doi: [10.3847/1538-4357/aa6570](https://doi.org/10.3847/1538-4357/aa6570)
- Kirby, E. N., Gilbert, K. M., Escala, I., et al. 2020, *AJ*, 159, 46, doi: [10.3847/1538-3881/ab5f0f](https://doi.org/10.3847/1538-3881/ab5f0f)
- Kirby, E. N., Rizzi, L., Held, E. V., et al. 2017b, *ApJ*, 834, 9, doi: [10.3847/1538-4357/834/1/9](https://doi.org/10.3847/1538-4357/834/1/9)
- Kirby, E. N., Simon, J. D., & Cohen, J. G. 2015, *ApJ*, 810, 56, doi: [10.1088/0004-637X/810/1/56](https://doi.org/10.1088/0004-637X/810/1/56)
- Kobulnicky, H. A., Monson, A. J., Buckalew, B. A., et al. 2005, *AJ*, 129, 239, doi: [10.1086/426337](https://doi.org/10.1086/426337)
- Koch, A., Kunder, A., & Wojno, J. 2017, *A&A*, 605, A128, doi: [10.1051/0004-6361/201731771](https://doi.org/10.1051/0004-6361/201731771)
- Koposov, S., de Jong, J. T. A., Belokurov, V., et al. 2007, *ApJ*, 669, 337, doi: [10.1086/521422](https://doi.org/10.1086/521422)
- Koposov, S., Belokurov, V., Evans, N. W., et al. 2008, *ApJ*, 686, 279, doi: [10.1086/589911](https://doi.org/10.1086/589911)
- Koposov, S. E., Belokurov, V., & Torrealba, G. 2017, *MNRAS*, 470, 2702, doi: [10.1093/mnras/stx1182](https://doi.org/10.1093/mnras/stx1182)
- Koposov, S. E., Belokurov, V., Torrealba, G., & Evans, N. W. 2015a, *ApJ*, 805, 130, doi: [10.1088/0004-637X/805/2/130](https://doi.org/10.1088/0004-637X/805/2/130)

- Koposov, S. E., Gilmore, G., Walker, M. G., et al. 2011, *ApJ*, 736, 146, doi: [10.1088/0004-637X/736/2/146](https://doi.org/10.1088/0004-637X/736/2/146)
- Koposov, S. E., Casey, A. R., Belokurov, V., et al. 2015b, *ApJ*, 811, 62, doi: [10.1088/0004-637X/811/1/62](https://doi.org/10.1088/0004-637X/811/1/62)
- Koposov, S. E., Walker, M. G., Belokurov, V., et al. 2018, *MNRAS*, 479, 5343, doi: [10.1093/mnras/sty1772](https://doi.org/10.1093/mnras/sty1772)
- Kopylov, A. I., Tikhonov, N. A., Fabrika, S., Drozdovsky, I., & Valeev, A. F. 2008, *MNRAS*, 387, L45, doi: [10.1111/j.1745-3933.2008.00482.x](https://doi.org/10.1111/j.1745-3933.2008.00482.x)
- Koribalski, B. S., Staveley-Smith, L., Kilborn, V. A., et al. 2004, *AJ*, 128, 16, doi: [10.1086/421744](https://doi.org/10.1086/421744)
- Kowal, C. T., Lo, K. Y., & Sargent, W. L. W. 1978, *IAUC*, 3305, 2
- Kronberger, M., Teutsch, P., Alessi, B., et al. 2006, *A&A*, 447, 921, doi: [10.1051/0004-6361:20054057](https://doi.org/10.1051/0004-6361:20054057)
- Kruijssen, J. M. D., Pfeffer, J. L., Reina-Campos, M., Crain, R. A., & Bastian, N. 2019, *MNRAS*, 486, 3180, doi: [10.1093/mnras/sty1609](https://doi.org/10.1093/mnras/sty1609)
- Kuehn, C., Kinemuchi, K., Ripepi, V., et al. 2008, *ApJL*, 674, L81, doi: [10.1086/529137](https://doi.org/10.1086/529137)
- Kunder, A., Crabb, R. E., Debattista, V. P., Koch-Hansen, A. J., & Huhmann, B. M. 2021, *AJ*, 162, 86, doi: [10.3847/1538-3881/ac0888](https://doi.org/10.3847/1538-3881/ac0888)
- Kunder, A., Prudil, Z., Covey, K. R., et al. 2024, *AJ*, 167, 21, doi: [10.3847/1538-3881/ad0cfc](https://doi.org/10.3847/1538-3881/ad0cfc)
- Kunder, A. M., & Butler, E. 2020, *AJ*, 160, 241, doi: [10.3847/1538-3881/abbd93](https://doi.org/10.3847/1538-3881/abbd93)
- Kurtev, R., Ivanov, V. D., Borissova, J., & Ortolani, S. 2008, *A&A*, 489, 583, doi: [10.1051/0004-6361:200809425](https://doi.org/10.1051/0004-6361:200809425)
- Kvasova, K., Kirby, E. N., & Beaton, R. L. 2024, arXiv e-prints, arXiv:2404.11804, doi: [10.48550/arXiv.2404.11804](https://doi.org/10.48550/arXiv.2404.11804)
- Laevens, B. P. M., Martin, N. F., Sesar, B., et al. 2014, *ApJL*, 786, L3, doi: [10.1088/2041-8205/786/1/L3](https://doi.org/10.1088/2041-8205/786/1/L3)
- Laevens, B. P. M., Martin, N. F., Bernard, E. J., et al. 2015a, *ApJ*, 813, 44, doi: [10.1088/0004-637X/813/1/44](https://doi.org/10.1088/0004-637X/813/1/44)
- Laevens, B. P. M., Martin, N. F., Ibata, R. A., et al. 2015b, *ApJL*, 802, L18, doi: [10.1088/2041-8205/802/2/L18](https://doi.org/10.1088/2041-8205/802/2/L18)
- Larsen, S. S., Brodie, J. P., Forbes, D. A., & Strader, J. 2014, *A&A*, 565, A98, doi: [10.1051/0004-6361/201322672](https://doi.org/10.1051/0004-6361/201322672)
- Larsen, S. S., Brodie, J. P., & Strader, J. 2012, *A&A*, 546, A53, doi: [10.1051/0004-6361/201219895](https://doi.org/10.1051/0004-6361/201219895)
- Larsen, S. S., Brodie, J. P., Wasserman, A., & Strader, J. 2018, *A&A*, 613, A56, doi: [10.1051/0004-6361/201731909](https://doi.org/10.1051/0004-6361/201731909)
- Larsen, S. S., Eitner, P., Magg, E., et al. 2022, *A&A*, 660, A88, doi: [10.1051/0004-6361/202142243](https://doi.org/10.1051/0004-6361/202142243)
- Lauberts, A. 1976, *A&A*, 52, 309
- . 1982, ESO/Uppsala survey of the ESO(B) atlas
- Lauberts, A., Holmberg, E. B., Schuster, H. E., & West, R. M. 1981, *A&AS*, 43, 307
- Lavery, R. J. 1990, *IAUC*, 5139, 2
- Lavery, R. J., & Mighell, K. J. 1992, *AJ*, 103, 81, doi: [10.1086/116042](https://doi.org/10.1086/116042)
- Leaman, R., Venn, K. A., Brooks, A. M., et al. 2013, *ApJ*, 767, 131, doi: [10.1088/0004-637X/767/2/131](https://doi.org/10.1088/0004-637X/767/2/131)
- Leaman, R., Ruiz-Lara, T., Cole, A. A., et al. 2020, *MNRAS*, 492, 5102, doi: [10.1093/mnras/staa004](https://doi.org/10.1093/mnras/staa004)
- Leanza, S., Pallanca, C., Ferraro, F. R., et al. 2024, arXiv e-prints, arXiv:2405.13558, doi: [10.48550/arXiv.2405.13558](https://doi.org/10.48550/arXiv.2405.13558)
- Lee, M. G., Yuk, I.-S., Park, H. S., Harris, J., & Zaritsky, D. 2009, *ApJ*, 703, 692, doi: [10.1088/0004-637X/703/1/692](https://doi.org/10.1088/0004-637X/703/1/692)
- Letarte, B., Hill, V., Jablonka, P., et al. 2006, *A&A*, 453, 547, doi: [10.1051/0004-6361:20054439](https://doi.org/10.1051/0004-6361:20054439)
- Li, J., Greene, J. E., Carlsten, S. G., & Danieli, S. 2024, arXiv e-prints, arXiv:2406.00101, <https://arxiv.org/abs/2406.00101>
- Li, T. S., Simon, J. D., Drlica-Wagner, A., et al. 2017, *ApJ*, 838, 8, doi: [10.3847/1538-4357/aa6113](https://doi.org/10.3847/1538-4357/aa6113)
- Li, T. S., Simon, J. D., Pace, A. B., et al. 2018, *ApJ*, 857, 145, doi: [10.3847/1538-4357/aab666](https://doi.org/10.3847/1538-4357/aab666)
- Lim, D., Koch-Hansen, A. J., Chun, S.-H., Hong, S., & Lee, Y.-W. 2022, *A&A*, 666, A62, doi: [10.1051/0004-6361/202243877](https://doi.org/10.1051/0004-6361/202243877)
- Liu, C., Hu, J., Newberg, H., & Zhao, Y. 2008, *A&A*, 477, 139, doi: [10.1051/0004-6361:20078392](https://doi.org/10.1051/0004-6361:20078392)
- Longeard, N., Martin, N., Ibata, R. A., et al. 2019, *MNRAS*, 490, 1498, doi: [10.1093/mnras/stz2592](https://doi.org/10.1093/mnras/stz2592)
- Longeard, N., Martin, N., Starkenburg, E., et al. 2018, *MNRAS*, 480, 2609, doi: [10.1093/mnras/sty1986](https://doi.org/10.1093/mnras/sty1986)
- Longeard, N., Martin, N., Ibata, R. A., et al. 2021, *MNRAS*, 503, 2754, doi: [10.1093/mnras/stab604](https://doi.org/10.1093/mnras/stab604)
- Longmore, A. J., Hawarden, T. G., Webster, B. L., Goss, W. M., & Mebold, U. 1978, *MNRAS*, 183, 97P, doi: [10.1093/mnras/183.1.97P](https://doi.org/10.1093/mnras/183.1.97P)
- Longmore, A. J., Kurtev, R., Lucas, P. W., et al. 2011, *MNRAS*, 416, 465, doi: [10.1111/j.1365-2966.2011.19056.x](https://doi.org/10.1111/j.1365-2966.2011.19056.x)
- Lunt, J. 1902, *MNRAS*, 62, 468, doi: [10.1093/mnras/62.7.468](https://doi.org/10.1093/mnras/62.7.468)
- Luque, E., Queiroz, A., Santiago, B., et al. 2016, *MNRAS*, 458, 603, doi: [10.1093/mnras/stw302](https://doi.org/10.1093/mnras/stw302)
- Luque, E., Pieres, A., Santiago, B., et al. 2017, *MNRAS*, 468, 97, doi: [10.1093/mnras/stx405](https://doi.org/10.1093/mnras/stx405)
- Luque, E., Santiago, B., Pieres, A., et al. 2018, *MNRAS*, 478, 2006, doi: [10.1093/mnras/sty1039](https://doi.org/10.1093/mnras/sty1039)
- Mackey, A. D., & Gilmore, G. F. 2003a, *MNRAS*, 340, 175, doi: [10.1046/j.1365-8711.2003.06275.x](https://doi.org/10.1046/j.1365-8711.2003.06275.x)
- . 2003b, *MNRAS*, 345, 747, doi: [10.1046/j.1365-8711.2003.07001.x](https://doi.org/10.1046/j.1365-8711.2003.07001.x)

- . 2003c, *MNRAS*, 338, 85,
doi: [10.1046/j.1365-8711.2003.06021.x](https://doi.org/10.1046/j.1365-8711.2003.06021.x)
- Madore, B. F., & Arp, H. C. 1982, *PASP*, 94, 40,
doi: [10.1086/130938](https://doi.org/10.1086/130938)
- Majewski, S. R., Beaton, R. L., Patterson, R. J., et al. 2007, *ApJL*, 670, L9, doi: [10.1086/524033](https://doi.org/10.1086/524033)
- Makarov, D., Makarova, L., Sharina, M., et al. 2012, *MNRAS*, 425, 709, doi: [10.1111/j.1365-2966.2012.21581.x](https://doi.org/10.1111/j.1365-2966.2012.21581.x)
- Makarova, L. N., Tully, R. B., Anand, G. S., et al. 2023, *ApJ*, 943, 139, doi: [10.3847/1538-4357/acb048](https://doi.org/10.3847/1538-4357/acb048)
- Martin, N. F., de Jong, J. T. A., & Rix, H.-W. 2008, *ApJ*, 684, 1075, doi: [10.1086/590336](https://doi.org/10.1086/590336)
- Martin, N. F., Ibata, R. A., Irwin, M. J., et al. 2006, *MNRAS*, 371, 1983,
doi: [10.1111/j.1365-2966.2006.10823.x](https://doi.org/10.1111/j.1365-2966.2006.10823.x)
- Martin, N. F., McConnachie, A. W., Irwin, M., et al. 2009, *ApJ*, 705, 758, doi: [10.1088/0004-637X/705/1/758](https://doi.org/10.1088/0004-637X/705/1/758)
- Martin, N. F., Slater, C. T., Schlafly, E. F., et al. 2013a, *ApJ*, 772, 15, doi: [10.1088/0004-637X/772/1/15](https://doi.org/10.1088/0004-637X/772/1/15)
- Martin, N. F., Schlafly, E. F., Slater, C. T., et al. 2013b, *ApJL*, 779, L10, doi: [10.1088/2041-8205/779/1/L10](https://doi.org/10.1088/2041-8205/779/1/L10)
- Martin, N. F., Chambers, K. C., Collins, M. L. M., et al. 2014, *ApJL*, 793, L14, doi: [10.1088/2041-8205/793/1/L14](https://doi.org/10.1088/2041-8205/793/1/L14)
- Martin, N. F., Nidever, D. L., Besla, G., et al. 2015, *ApJL*, 804, L5, doi: [10.1088/2041-8205/804/1/L5](https://doi.org/10.1088/2041-8205/804/1/L5)
- Martin, N. F., Jungbluth, V., Nidever, D. L., et al. 2016a, *ApJL*, 830, L10, doi: [10.3847/2041-8205/830/1/L10](https://doi.org/10.3847/2041-8205/830/1/L10)
- Martin, N. F., Ibata, R. A., Lewis, G. F., et al. 2016b, *ApJ*, 833, 167, doi: [10.3847/1538-4357/833/2/167](https://doi.org/10.3847/1538-4357/833/2/167)
- Martínez-Delgado, D., Karim, N., Charles, E. J. E., et al. 2022, *MNRAS*, 509, 16, doi: [10.1093/mnras/stab2797](https://doi.org/10.1093/mnras/stab2797)
- Martínez-Delgado, D., Stein, M., Pawlowski, M. S., et al. 2024, arXiv e-prints, arXiv:2405.03769.
<https://arxiv.org/abs/2405.03769>
- Martínez-Delgado, D., Grebel, E. K., Javanmardi, B., et al. 2018, *A&A*, 620, A126,
doi: [10.1051/0004-6361/201833302](https://doi.org/10.1051/0004-6361/201833302)
- Martínez-Delgado, D., Makarov, D., Javanmardi, B., et al. 2021, *A&A*, 652, A48, doi: [10.1051/0004-6361/202141242](https://doi.org/10.1051/0004-6361/202141242)
- Martínez-Vázquez, C. E., Monelli, M., Bono, G., et al. 2015, *MNRAS*, 454, 1509, doi: [10.1093/mnras/stv2014](https://doi.org/10.1093/mnras/stv2014)
- Martínez-Vázquez, C. E., Monelli, M., Bernard, E. J., et al. 2017, *ApJ*, 850, 137, doi: [10.3847/1538-4357/aa9381](https://doi.org/10.3847/1538-4357/aa9381)
- Martínez-Vázquez, C. E., Vivas, A. K., Gurevich, M., et al. 2019, *MNRAS*, 490, 2183, doi: [10.1093/mnras/stz2609](https://doi.org/10.1093/mnras/stz2609)
- Martínez-Vázquez, C. E., Cerny, W., Vivas, A. K., et al. 2021a, *AJ*, 162, 253, doi: [10.3847/1538-3881/ac2368](https://doi.org/10.3847/1538-3881/ac2368)
- Martínez-Vázquez, C. E., Monelli, M., Cassisi, S., et al. 2021b, *MNRAS*, 508, 1064, doi: [10.1093/mnras/stab2493](https://doi.org/10.1093/mnras/stab2493)
- Mateluna, R., Geisler, D., Villanova, S., et al. 2012, *A&A*, 548, A82, doi: [10.1051/0004-6361/201219750](https://doi.org/10.1051/0004-6361/201219750)
- Mateo, M., Olszewski, E. W., & Walker, M. G. 2008, *ApJ*, 675, 201, doi: [10.1086/522326](https://doi.org/10.1086/522326)
- Mau, S., Drlica-Wagner, A., Bechtol, K., et al. 2019, *ApJ*, 875, 154, doi: [10.3847/1538-4357/ab0bb8](https://doi.org/10.3847/1538-4357/ab0bb8)
- Mau, S., Cerny, W., Pace, A. B., et al. 2020, *ApJ*, 890, 136,
doi: [10.3847/1538-4357/ab6c67](https://doi.org/10.3847/1538-4357/ab6c67)
- McConnachie, A. W. 2012, *AJ*, 144, 4,
doi: [10.1088/0004-6256/144/1/4](https://doi.org/10.1088/0004-6256/144/1/4)
- McConnachie, A. W., & Irwin, M. J. 2006, *MNRAS*, 365, 1263, doi: [10.1111/j.1365-2966.2005.09806.x](https://doi.org/10.1111/j.1365-2966.2005.09806.x)
- McConnachie, A. W., & Venn, K. A. 2020, *AJ*, 160, 124,
doi: [10.3847/1538-3881/aba4ab](https://doi.org/10.3847/1538-3881/aba4ab)
- McConnachie, A. W., Huxor, A., Martin, N. F., et al. 2008, *ApJ*, 688, 1009, doi: [10.1086/591313](https://doi.org/10.1086/591313)
- McLaughlin, D. E., & van der Marel, R. P. 2005, *ApJS*, 161, 304, doi: [10.1086/497429](https://doi.org/10.1086/497429)
- McNanna, M., Bechtol, K., Mau, S., et al. 2024, *ApJ*, 961, 126, doi: [10.3847/1538-4357/ad07d0](https://doi.org/10.3847/1538-4357/ad07d0)
- McQuinn, K. B. W., Mao, Y.-Y., Buckley, M. R., et al. 2023, *ApJ*, 944, 14, doi: [10.3847/1538-4357/acaec9](https://doi.org/10.3847/1538-4357/acaec9)
- McQuinn, K. B. W., Mao, Y.-Y., Tollerud, E. J., et al. 2024, *ApJ*, 967, 161, doi: [10.3847/1538-4357/ad429b](https://doi.org/10.3847/1538-4357/ad429b)
- McQuinn, K. B. W., Skillman, E. D., Dolphin, A., et al. 2015, *ApJ*, 812, 158, doi: [10.1088/0004-637X/812/2/158](https://doi.org/10.1088/0004-637X/812/2/158)
- McQuinn, K. B. W., Boyer, M. L., Mitchell, M. B., et al. 2017, *ApJ*, 834, 78, doi: [10.3847/1538-4357/834/1/78](https://doi.org/10.3847/1538-4357/834/1/78)
- Medina, G. E., Muñoz, R. R., Vivas, A. K., et al. 2018, *ApJ*, 855, 43, doi: [10.3847/1538-4357/aaad02](https://doi.org/10.3847/1538-4357/aaad02)
- Melotte, P. J. 1926, *MNRAS*, 86, 636,
doi: [10.1093/mnras/86.8.636](https://doi.org/10.1093/mnras/86.8.636)
- Mercer, E. P., Clemens, D. P., Meade, M. R., et al. 2005, *ApJ*, 635, 560, doi: [10.1086/497260](https://doi.org/10.1086/497260)
- Mighell, K. J., Sarajedini, A., & French, R. S. 1998, *AJ*, 116, 2395, doi: [10.1086/300591](https://doi.org/10.1086/300591)
- Milone, A. P., Cordoni, G., Marino, A. F., et al. 2023, *A&A*, 672, A161, doi: [10.1051/0004-6361/202244798](https://doi.org/10.1051/0004-6361/202244798)
- Minniti, D., Alonso-García, J., Braga, V., et al. 2017a, *Research Notes of the American Astronomical Society*, 1, 16, doi: [10.3847/2515-5172/aa9ab7](https://doi.org/10.3847/2515-5172/aa9ab7)
- Minniti, D., Alonso-García, J., & Pullen, J. 2017b, *Research Notes of the American Astronomical Society*, 1, 54, doi: [10.3847/2515-5172/aaa3ed](https://doi.org/10.3847/2515-5172/aaa3ed)
- Minniti, D., Fernández-Trincado, J. G., Gómez, M., et al. 2021a, *A&A*, 650, L11,
doi: [10.1051/0004-6361/202141129](https://doi.org/10.1051/0004-6361/202141129)
- Minniti, D., Fernández-Trincado, J. G., Smith, L. C., et al. 2021b, *A&A*, 648, A86,
doi: [10.1051/0004-6361/202039820](https://doi.org/10.1051/0004-6361/202039820)

- Minniti, D., Hempel, M., Toledo, I., et al. 2011, *A&A*, 527, A81, doi: [10.1051/0004-6361/201015795](https://doi.org/10.1051/0004-6361/201015795)
- Minniti, D., Geisler, D., Alonso-García, J., et al. 2017c, *ApJL*, 849, L24, doi: [10.3847/2041-8213/aa95b8](https://doi.org/10.3847/2041-8213/aa95b8)
- Minniti, D., Schlafly, E. F., Palma, T., et al. 2018, *ApJ*, 866, 12, doi: [10.3847/1538-4357/aadd06](https://doi.org/10.3847/1538-4357/aadd06)
- Minniti, D., Palma, T., Camargo, D., et al. 2021c, *A&A*, 652, A129, doi: [10.1051/0004-6361/202140347](https://doi.org/10.1051/0004-6361/202140347)
- Minniti, D., Matsunaga, N., Fernández-Trincado, J. G., et al. 2024, *A&A*, 683, A150, doi: [10.1051/0004-6361/202348100](https://doi.org/10.1051/0004-6361/202348100)
- Moni Bidin, C., Mauro, F., Geisler, D., et al. 2011, *A&A*, 535, A33, doi: [10.1051/0004-6361/201117488](https://doi.org/10.1051/0004-6361/201117488)
- Moskowitz, A. G., & Walker, M. G. 2020, *ApJ*, 892, 27, doi: [10.3847/1538-4357/ab7459](https://doi.org/10.3847/1538-4357/ab7459)
- Muñoz, R. R., Côté, P., Santana, F. A., et al. 2018, *ApJ*, 860, 66, doi: [10.3847/1538-4357/aac16b](https://doi.org/10.3847/1538-4357/aac16b)
- Muñoz, R. R., Geha, M., Côté, P., et al. 2012, *ApJL*, 753, L15, doi: [10.1088/2041-8205/753/1/L15](https://doi.org/10.1088/2041-8205/753/1/L15)
- Mucciarelli, A., Origlia, L., & Ferraro, F. R. 2010, *ApJ*, 717, 277, doi: [10.1088/0004-637X/717/1/277](https://doi.org/10.1088/0004-637X/717/1/277)
- Müller, O., Jerjen, H., & Binggeli, B. 2015, *A&A*, 583, A79, doi: [10.1051/0004-6361/201526748](https://doi.org/10.1051/0004-6361/201526748)
- . 2017, *A&A*, 597, A7, doi: [10.1051/0004-6361/201628921](https://doi.org/10.1051/0004-6361/201628921)
- Müller, O., Rejkuba, M., & Jerjen, H. 2018, *A&A*, 615, A96, doi: [10.1051/0004-6361/201732455](https://doi.org/10.1051/0004-6361/201732455)
- Müller, O., Rejkuba, M., Pawlowski, M. S., et al. 2019, *A&A*, 629, A18, doi: [10.1051/0004-6361/201935807](https://doi.org/10.1051/0004-6361/201935807)
- Müller, O., Fahrion, K., Rejkuba, M., et al. 2021, *A&A*, 645, A92, doi: [10.1051/0004-6361/202039359](https://doi.org/10.1051/0004-6361/202039359)
- Musella, I., Ripepi, V., Clementini, G., et al. 2009, *ApJL*, 695, L83, doi: [10.1088/0004-637X/695/1/L83](https://doi.org/10.1088/0004-637X/695/1/L83)
- Mutlu-Pakdil, B., Sand, D. J., Carlin, J. L., et al. 2018, *ApJ*, 863, 25, doi: [10.3847/1538-4357/aacd0e](https://doi.org/10.3847/1538-4357/aacd0e)
- Mutlu-Pakdil, B., Sand, D. J., Crnojević, D., et al. 2020, *ApJ*, 902, 106, doi: [10.3847/1538-4357/abb40b](https://doi.org/10.3847/1538-4357/abb40b)
- . 2022, *ApJ*, 926, 77, doi: [10.3847/1538-4357/ac4418](https://doi.org/10.3847/1538-4357/ac4418)
- . 2024, *ApJ*, 966, 188, doi: [10.3847/1538-4357/ad36c4](https://doi.org/10.3847/1538-4357/ad36c4)
- Nemec, J. M., Wehlau, A., & Mendes de Oliveira, C. 1988, *AJ*, 96, 528, doi: [10.1086/114830](https://doi.org/10.1086/114830)
- Newman, M. J. B., McQuinn, K. B. W., Skillman, E. D., et al. 2024, *ApJ*, 966, 175, doi: [10.3847/1538-4357/ad306d](https://doi.org/10.3847/1538-4357/ad306d)
- Nilson, P. 1974, *Uppsala Astronomical Observatory Reports*, 5, 0
- Oakes, E. K., Hoyt, T. J., Freedman, W. L., et al. 2022, *ApJ*, 929, 116, doi: [10.3847/1538-4357/ac5b07](https://doi.org/10.3847/1538-4357/ac5b07)
- Obasi, C., Gómez, M., Minniti, D., & Alonso-García, J. 2021, *A&A*, 654, A39, doi: [10.1051/0004-6361/202141332](https://doi.org/10.1051/0004-6361/202141332)
- Okamoto, S., Arimoto, N., Ferguson, A. M. N., et al. 2019, *ApJ*, 884, 128, doi: [10.3847/1538-4357/ab44a7](https://doi.org/10.3847/1538-4357/ab44a7)
- Okamoto, S., Ferguson, A. M. N., Arimoto, N., et al. 2024, *ApJL*, 967, L24, doi: [10.3847/2041-8213/ad4358](https://doi.org/10.3847/2041-8213/ad4358)
- Olivares Carvajal, J., Zoccali, M., Rojas-Arriagada, A., et al. 2022, *MNRAS*, 513, 3993, doi: [10.1093/mnras/stac934](https://doi.org/10.1093/mnras/stac934)
- Olsen, K. A. G., Hodge, P. W., Mateo, M., et al. 1998, *MNRAS*, 300, 665, doi: [10.1046/j.1365-8711.1998.01860.x](https://doi.org/10.1046/j.1365-8711.1998.01860.x)
- Olszewski, E. W., Schommer, R. A., Suntzeff, N. B., & Harris, H. C. 1991, *AJ*, 101, 515, doi: [10.1086/115701](https://doi.org/10.1086/115701)
- Ortolani, S., Bonatto, C., Bica, E., & Barbuy, B. 2009, *AJ*, 138, 889, doi: [10.1088/0004-6256/138/3/889](https://doi.org/10.1088/0004-6256/138/3/889)
- Pace, A. B., Erkal, D., & Li, T. S. 2022, *ApJ*, 940, 136, doi: [10.3847/1538-4357/ac997b](https://doi.org/10.3847/1538-4357/ac997b) [arXiv:2205.05699](https://arxiv.org/abs/2205.05699)
- Pace, A. B., & Li, T. S. 2019, *ApJ*, 875, 77, doi: [10.3847/1538-4357/ab0aee](https://doi.org/10.3847/1538-4357/ab0aee)
- Pace, A. B., Walker, M. G., Koposov, S. E., et al. 2021, *ApJ*, 923, 77, doi: [10.3847/1538-4357/ac2cd2](https://doi.org/10.3847/1538-4357/ac2cd2)
- Pace, A. B., Kaplinghat, M., Kirby, E., et al. 2020, *MNRAS*, 495, 3022, doi: [10.1093/mnras/staa1419](https://doi.org/10.1093/mnras/staa1419)
- Pace, A. B., Koposov, S. E., Walker, M. G., et al. 2023, *MNRAS*, 526, 1075, doi: [10.1093/mnras/stad2760](https://doi.org/10.1093/mnras/stad2760)
- Pallanca, C., Leanza, S., Ferraro, F. R., et al. 2023, *ApJ*, 950, 138, doi: [10.3847/1538-4357/acce9](https://doi.org/10.3847/1538-4357/acce9)
- Pedrerros, M. H., & Gallart, C. 2002, in *Extragalactic Star Clusters*, ed. D. P. Geisler, E. K. Grebel, & D. Minniti, Vol. 207, 177–179
- Pfleiderer, J., Weinberger, R., & Mross, R. 1977, in *Star Cluster Symposium*, Vol. 5, 39
- Piatti, A. E., Hwang, N., Cole, A. A., Angelo, M. S., & Emptage, B. 2018, *MNRAS*, 481, 49, doi: [10.1093/mnras/sty2324](https://doi.org/10.1093/mnras/sty2324)
- Piatti, A. E., & Lucchini, S. 2022, *MNRAS*, 515, 4005, doi: [10.1093/mnras/stac1980](https://doi.org/10.1093/mnras/stac1980)
- Pickering, E. C. 1908, *Annals of Harvard College Observatory*, 60, 147
- Pickering, E. C., & Stewart, D. L. 1899, *ApJ*, 9, 173, doi: [10.1086/140571](https://doi.org/10.1086/140571)
- Pietrzyński, G., Graczyk, D., Gallenne, A., et al. 2019, *Nature*, 567, 200, doi: [10.1038/s41586-019-0999-4](https://doi.org/10.1038/s41586-019-0999-4)
- Pišmiš, P. 1959, *Boletín de los Observatorios Tonantzintla y Tacubaya*, 2, 37
- Puche, D., Carignan, C., & Wainscoat, R. J. 1991, *AJ*, 101, 447, doi: [10.1086/115695](https://doi.org/10.1086/115695)
- Putman, M. E., Zheng, Y., Price-Whelan, A. M., et al. 2021, *ApJ*, 913, 53, doi: [10.3847/1538-4357/abe391](https://doi.org/10.3847/1538-4357/abe391)
- Puzia, T. H., & Sharina, M. E. 2008, *ApJ*, 674, 909, doi: [10.1086/525038](https://doi.org/10.1086/525038)

- Radburn-Smith, D. J., de Jong, R. S., Seth, A. C., et al. 2011, *ApJS*, 195, 18, doi: [10.1088/0067-0049/195/2/18](https://doi.org/10.1088/0067-0049/195/2/18)
- Reaves, G. 1956, *AJ*, 61, 69, doi: [10.1086/107292](https://doi.org/10.1086/107292)
- Rhode, K. L., Smith, N. J., Crnojevic, D., et al. 2023, *AJ*, 166, 180, doi: [10.3847/1538-3881/acf859](https://doi.org/10.3847/1538-3881/acf859)
- Richardson, J. C., Irwin, M. J., McConnachie, A. W., et al. 2011, *ApJ*, 732, 76, doi: [10.1088/0004-637X/732/2/76](https://doi.org/10.1088/0004-637X/732/2/76)
- Richstein, H., Patel, E., Kallivayalil, N., et al. 2022, *ApJ*, 933, 217, doi: [10.3847/1538-4357/ac7226](https://doi.org/10.3847/1538-4357/ac7226)
- Richstein, H., Kallivayalil, N., Simon, J. D., et al. 2024, *ApJ*, 967, 72, doi: [10.3847/1538-4357/ad393c](https://doi.org/10.3847/1538-4357/ad393c)
- Romanowsky, A. J., Martínez-Delgado, D., Martin, N. F., et al. 2016, *MNRAS*, 457, L103, doi: [10.1093/mnrasl/slv207](https://doi.org/10.1093/mnrasl/slv207)
- Romanowsky, A. J., Larsen, S. S., Villaume, A., et al. 2023, *MNRAS*, 518, 3164, doi: [10.1093/mnras/stac2898](https://doi.org/10.1093/mnras/stac2898)
- Romero-Colmenares, M., Fernández-Trincado, J. G., Geisler, D., et al. 2021, *A&A*, 652, A158, doi: [10.1051/0004-6361/202141294](https://doi.org/10.1051/0004-6361/202141294)
- Rosenberg, A., Saviane, I., Piotto, G., Aparicio, A., & Zaggia, S. R. 1998, *AJ*, 115, 648, doi: [10.1086/300200](https://doi.org/10.1086/300200)
- Ryu, J., & Lee, M. G. 2018a, *ApJ*, 856, 152, doi: [10.3847/1538-4357/aab1ff](https://doi.org/10.3847/1538-4357/aab1ff)
- . 2018b, *ApJL*, 863, L38, doi: [10.3847/2041-8213/aad8b7](https://doi.org/10.3847/2041-8213/aad8b7)
- Sakamoto, T., & Hasegawa, T. 2006, *ApJL*, 653, L29, doi: [10.1086/510332](https://doi.org/10.1086/510332)
- Sand, D. J., Spekkens, K., Crnojević, D., et al. 2015, *ApJL*, 812, L13, doi: [10.1088/2041-8205/812/1/L13](https://doi.org/10.1088/2041-8205/812/1/L13)
- Sand, D. J., Strader, J., Willman, B., et al. 2012, *ApJ*, 756, 79, doi: [10.1088/0004-637X/756/1/79](https://doi.org/10.1088/0004-637X/756/1/79)
- Sand, D. J., Crnojević, D., Strader, J., et al. 2014, *ApJL*, 793, L7, doi: [10.1088/2041-8205/793/1/L7](https://doi.org/10.1088/2041-8205/793/1/L7)
- Sand, D. J., Mutlu-Pakdil, B., Jones, M. G., et al. 2022, *ApJL*, 935, L17, doi: [10.3847/2041-8213/ac85ee](https://doi.org/10.3847/2041-8213/ac85ee)
- Savino, A., Weisz, D. R., Skillman, E. D., et al. 2022, *ApJ*, 938, 101, doi: [10.3847/1538-4357/ac91cb](https://doi.org/10.3847/1538-4357/ac91cb)
- Schommer, R. A., Suntzeff, N. B., Olszewski, E. W., & Harris, H. C. 1992, *AJ*, 103, 447, doi: [10.1086/116074](https://doi.org/10.1086/116074)
- Schuster, H. E., & West, R. M. 1976, *A&A*, 49, 129
- Sérsic, J. L. 1974, *Ap&SS*, 28, 365, doi: [10.1007/BF00641933](https://doi.org/10.1007/BF00641933)
- Shapley, H. 1938a, *Nature*, 142, 715, doi: [10.1038/142715b0](https://doi.org/10.1038/142715b0)
- . 1938b, *Harvard College Observatory Bulletin*, 908, 1
- Sharina, M., & Davoust, E. 2009, *A&A*, 497, 65, doi: [10.1051/0004-6361/200811306](https://doi.org/10.1051/0004-6361/200811306)
- Sharina, M. E., Afanasiev, V. L., & Puzia, T. H. 2006, *MNRAS*, 372, 1259, doi: [10.1111/j.1365-2966.2006.10925.x](https://doi.org/10.1111/j.1365-2966.2006.10925.x)
- Sharina, M. E., Puzia, T. H., & Krylatyh, A. S. 2007, *Astrophysical Bulletin*, 62, 209, doi: [10.1134/S1990341307030029](https://doi.org/10.1134/S1990341307030029)
- Sharina, M. E., Puzia, T. H., & Makarov, D. I. 2005, *A&A*, 442, 85, doi: [10.1051/0004-6361:20052921](https://doi.org/10.1051/0004-6361:20052921)
- Sharina, M. E., Shimansky, V. V., & Kniazev, A. Y. 2017, *MNRAS*, 471, 1955, doi: [10.1093/mnras/stx1605](https://doi.org/10.1093/mnras/stx1605)
- Sharma, S., Borissova, J., Kurtev, R., Ivanov, V. D., & Geisler, D. 2010, *AJ*, 139, 878, doi: [10.1088/0004-6256/139/3/878](https://doi.org/10.1088/0004-6256/139/3/878)
- Simon, J. D. 2019, *ARA&A*, 57, 375, doi: [10.1146/annurev-astro-091918-104453](https://doi.org/10.1146/annurev-astro-091918-104453)
- Simon, J. D., & Geha, M. 2007, *ApJ*, 670, 313, doi: [10.1086/521816](https://doi.org/10.1086/521816)
- Simon, J. D., Geha, M., Minor, Q. E., et al. 2011, *ApJ*, 733, 46, doi: [10.1088/0004-637X/733/1/46](https://doi.org/10.1088/0004-637X/733/1/46)
- Simon, J. D., Drlica-Wagner, A., Li, T. S., et al. 2015, *ApJ*, 808, 95, doi: [10.1088/0004-637X/808/1/95](https://doi.org/10.1088/0004-637X/808/1/95)
- Simon, J. D., Li, T. S., Drlica-Wagner, A., et al. 2017, *ApJ*, 838, 11, doi: [10.3847/1538-4357/aa5be7](https://doi.org/10.3847/1538-4357/aa5be7)
- Simon, J. D., Li, T. S., Erkal, D., et al. 2020, *ApJ*, 892, 137, doi: [10.3847/1538-4357/ab7ccb](https://doi.org/10.3847/1538-4357/ab7ccb)
- Simon, J. D., Brown, T. M., Drlica-Wagner, A., et al. 2021, *ApJ*, 908, 18, doi: [10.3847/1538-4357/abd31b](https://doi.org/10.3847/1538-4357/abd31b)
- Simpson, J. D. 2018, *MNRAS*, 477, 4565, doi: [10.1093/mnras/sty847](https://doi.org/10.1093/mnras/sty847)
- Simpson, J. D., De Silva, G. M., Martell, S. L., et al. 2017, *MNRAS*, 471, 4087, doi: [10.1093/mnras/stx1892](https://doi.org/10.1093/mnras/stx1892)
- Slater, C. T., Bell, E. F., & Martin, N. F. 2011, *ApJL*, 742, L14, doi: [10.1088/2041-8205/742/1/L14](https://doi.org/10.1088/2041-8205/742/1/L14)
- Slater, C. T., Bell, E. F., Martin, N. F., Tollerud, E. J., & Ho, N. 2015, *ApJ*, 806, 230, doi: [10.1088/0004-637X/806/2/230](https://doi.org/10.1088/0004-637X/806/2/230)
- Smith, S. E. T., Jensen, J., Roediger, J., et al. 2023, *AJ*, 166, 76, doi: [10.3847/1538-3881/acdd77](https://doi.org/10.3847/1538-3881/acdd77)
- Smith, S. E. T., Cerny, W., Hayes, C. R., et al. 2024, *ApJ*, 961, 92, doi: [10.3847/1538-4357/ad0d9f](https://doi.org/10.3847/1538-4357/ad0d9f)
- Sohn, S. T., Patel, E., Fardal, M. A., et al. 2020, *ApJ*, 901, 43, doi: [10.3847/1538-4357/abaf49](https://doi.org/10.3847/1538-4357/abaf49)
- Song, Y.-Y., Mateo, M., Bailey, John I., I., et al. 2021, *MNRAS*, 504, 4160, doi: [10.1093/mnras/stab1065](https://doi.org/10.1093/mnras/stab1065)
- Souza, S. O., Valentini, M., Barbuy, B., et al. 2021, *A&A*, 656, A78, doi: [10.1051/0004-6361/202141768](https://doi.org/10.1051/0004-6361/202141768)
- Spekkens, K., Urbancic, N., Mason, B. S., Willman, B., & Aguirre, J. E. 2014, *ApJL*, 795, L5, doi: [10.1088/2041-8205/795/1/L5](https://doi.org/10.1088/2041-8205/795/1/L5)
- Spencer, M. E., Mateo, M., Olszewski, E. W., et al. 2018, *AJ*, 156, 257, doi: [10.3847/1538-3881/aae3e4](https://doi.org/10.3847/1538-3881/aae3e4)

- Spencer, M. E., Mateo, M., Walker, M. G., & Olszewski, E. W. 2017, *ApJ*, 836, 202, doi: [10.3847/1538-4357/836/2/202](https://doi.org/10.3847/1538-4357/836/2/202)
- Stephens, A. W., Catelan, M., & Contreras, R. P. 2006, *AJ*, 131, 1426, doi: [10.1086/500300](https://doi.org/10.1086/500300)
- Stetson, P. B., Fiorentino, G., Bono, G., et al. 2014, *PASP*, 126, 616, doi: [10.1086/677352](https://doi.org/10.1086/677352)
- Strader, J., & Kobulnicky, H. A. 2008, *AJ*, 136, 2102, doi: [10.1088/0004-6256/136/5/2102](https://doi.org/10.1088/0004-6256/136/5/2102)
- Swift, L. 1888, *Astronomische Nachrichten*, 120, 33, doi: [10.1002/asna.18891200302](https://doi.org/10.1002/asna.18891200302)
- Taibi, S., Battaglia, G., Rejkuba, M., et al. 2020, *A&A*, 635, A152, doi: [10.1051/0004-6361/201937240](https://doi.org/10.1051/0004-6361/201937240)
- Taibi, S., Battaglia, G., Kacharov, N., et al. 2018, *A&A*, 618, A122, doi: [10.1051/0004-6361/201833414](https://doi.org/10.1051/0004-6361/201833414)
- Taylor, M. A., Eigenthaler, P., Puzia, T. H., et al. 2018, *ApJL*, 867, L15, doi: [10.3847/2041-8213/aae88d](https://doi.org/10.3847/2041-8213/aae88d)
- Terzan, A. 1966, *Academie des Sciences Paris Comptes Rendus Serie B Sciences Physiques*, 263, 221
- . 1967, *Academie des Sciences Paris Comptes Rendus Serie B Sciences Physiques*, 265, 734
- . 1968, *Academie des Sciences Paris Comptes Rendus Serie B Sciences Physiques*, 267, 1245
- . 1971, *A&A*, 12, 477
- Tollerud, E. J., Geha, M. C., Vargas, L. C., & Bullock, J. S. 2013, *ApJ*, 768, 50, doi: [10.1088/0004-637X/768/1/50](https://doi.org/10.1088/0004-637X/768/1/50)
- Tollerud, E. J., Beaton, R. L., Geha, M. C., et al. 2012, *ApJ*, 752, 45, doi: [10.1088/0004-637X/752/1/45](https://doi.org/10.1088/0004-637X/752/1/45)
- Toloba, E., Sand, D. J., Spekkens, K., et al. 2016, *ApJL*, 816, L5, doi: [10.3847/2041-8205/816/1/L5](https://doi.org/10.3847/2041-8205/816/1/L5)
- Torrealba, G., Belokurov, V., & Koposov, S. E. 2019a, *MNRAS*, 484, 2181, doi: [10.1093/mnras/stz071](https://doi.org/10.1093/mnras/stz071)
- Torrealba, G., Koposov, S. E., Belokurov, V., & Irwin, M. 2016a, *MNRAS*, 459, 2370, doi: [10.1093/mnras/stw733](https://doi.org/10.1093/mnras/stw733)
- Torrealba, G., Koposov, S. E., Belokurov, V., et al. 2016b, *MNRAS*, 463, 712, doi: [10.1093/mnras/stw2051](https://doi.org/10.1093/mnras/stw2051)
- Torrealba, G., Belokurov, V., Koposov, S. E., et al. 2018, *MNRAS*, 475, 5085, doi: [10.1093/mnras/sty170](https://doi.org/10.1093/mnras/sty170)
- . 2019b, *MNRAS*, 488, 2743, doi: [10.1093/mnras/stz1624](https://doi.org/10.1093/mnras/stz1624)
- Tudorica, A., Georgiev, I. Y., & Chies-Santos, A. L. 2015, *A&A*, 581, A84, doi: [10.1051/0004-6361/201525615](https://doi.org/10.1051/0004-6361/201525615)
- Tully, R. B., Rizzi, L., Shaya, E. J., et al. 2009a, *AJ*, 138, 323, doi: [10.1088/0004-6256/138/2/323](https://doi.org/10.1088/0004-6256/138/2/323)
- . 2009b, *AJ*, 138, 323, doi: [10.1088/0004-6256/138/2/323](https://doi.org/10.1088/0004-6256/138/2/323)
- van de Rydt, F., Demers, S., & Kunkel, W. E. 1991, *AJ*, 102, 130, doi: [10.1086/115861](https://doi.org/10.1086/115861)
- van den Bergh, S. 1959, *Publications of the David Dunlap Observatory*, 2, 147
- . 1972, *ApJL*, 171, L31, doi: [10.1086/180861](https://doi.org/10.1086/180861)
- . 1981, *A&AS*, 46, 79
- van der Marel, R. P., Alves, D. R., Hardy, E., & Suntzeff, N. B. 2002, *AJ*, 124, 2639, doi: [10.1086/343775](https://doi.org/10.1086/343775)
- Vasiliev, E., & Baumgardt, H. 2021, *MNRAS*, 505, 5978, doi: [10.1093/mnras/stab1475](https://doi.org/10.1093/mnras/stab1475)
- Veljanoski, J., Ferguson, A. M. N., Huxor, A. P., et al. 2013, *MNRAS*, 435, 3654, doi: [10.1093/mnras/stt1557](https://doi.org/10.1093/mnras/stt1557)
- Veljanoski, J., Ferguson, A. M. N., Mackey, A. D., et al. 2015, *MNRAS*, 452, 320, doi: [10.1093/mnras/stv1259](https://doi.org/10.1093/mnras/stv1259)
- Vivas, A. K., Martínez-Vázquez, C., & Walker, A. R. 2020, *ApJS*, 247, 35, doi: [10.3847/1538-4365/ab67e0](https://doi.org/10.3847/1538-4365/ab67e0)
- Vivas, A. K., Martínez-Vázquez, C. E., Walker, A. R., et al. 2022, *ApJ*, 926, 78, doi: [10.3847/1538-4357/ac43bd](https://doi.org/10.3847/1538-4357/ac43bd)
- Vivas, A. K., Olsen, K., Blum, R., et al. 2016, *AJ*, 151, 118, doi: [10.3847/0004-6256/151/5/118](https://doi.org/10.3847/0004-6256/151/5/118)
- Voggel, K., Hilker, M., Baumgardt, H., et al. 2016, *MNRAS*, 460, 3384, doi: [10.1093/mnras/stw1132](https://doi.org/10.1093/mnras/stw1132)
- Vorontsov-Velyaminov, B. A. 1959, *Atlas and Catalog of Interacting Galaxies* (1959, 0
- Vorontsov-Vel'Yaminov, B. A., & Krasnogorskaya, A. A. 1962, *Trudy Gosudarstvennogo Astronomicheskogo Instituta*, 32, 207
- Žemaitis, R., Ferguson, A. M. N., Okamoto, S., et al. 2023, *MNRAS*, 518, 2497, doi: [10.1093/mnras/stac3133](https://doi.org/10.1093/mnras/stac3133)
- Walker, M. G., Mateo, M., & Olszewski, E. W. 2009, *AJ*, 137, 3100, doi: [10.1088/0004-6256/137/2/3100](https://doi.org/10.1088/0004-6256/137/2/3100)
- Walker, M. G., Mateo, M., Olszewski, E. W., et al. 2015a, *ApJ*, 808, 108, doi: [10.1088/0004-637X/808/2/108](https://doi.org/10.1088/0004-637X/808/2/108)
- Walker, M. G., Olszewski, E. W., & Mateo, M. 2015b, *MNRAS*, 448, 2717, doi: [10.1093/mnras/stv099](https://doi.org/10.1093/mnras/stv099)
- Walsh, S. M., Jerjen, H., & Willman, B. 2007, *ApJL*, 662, L83, doi: [10.1086/519684](https://doi.org/10.1086/519684)
- Walsh, S. M., Willman, B., Sand, D., et al. 2008, *ApJ*, 688, 245, doi: [10.1086/592076](https://doi.org/10.1086/592076)
- Wang, M. Y., de Boer, T., Pieres, A., et al. 2019a, *ApJ*, 881, 118, doi: [10.3847/1538-4357/ab31a9](https://doi.org/10.3847/1538-4357/ab31a9)
- Wang, M. Y., Koposov, S., Drlica-Wagner, A., et al. 2019b, *ApJL*, 875, L13, doi: [10.3847/2041-8213/ab14f5](https://doi.org/10.3847/2041-8213/ab14f5)
- Warfield, J. T., Kallivayalil, N., Zivick, P., et al. 2023, *MNRAS*, 519, 1189, doi: [10.1093/mnras/stac3647](https://doi.org/10.1093/mnras/stac3647)
- Weinberger, R. 1995, *PASP*, 107, 58, doi: [10.1086/133515](https://doi.org/10.1086/133515)
- Weisz, D. R., Savino, A., & Dolphin, A. E. 2023, *ApJ*, 948, 50, doi: [10.3847/1538-4357/acc328](https://doi.org/10.3847/1538-4357/acc328)
- Weisz, D. R., Koposov, S. E., Dolphin, A. E., et al. 2016, *ApJ*, 822, 32, doi: [10.3847/0004-637X/822/1/32](https://doi.org/10.3847/0004-637X/822/1/32)
- Westmeier, T., Braun, R., & Koribalski, B. S. 2011, *MNRAS*, 410, 2217, doi: [10.1111/j.1365-2966.2010.17596.x](https://doi.org/10.1111/j.1365-2966.2010.17596.x)
- Westmeier, T., Obreschkow, D., Calabretta, M., et al. 2017, *MNRAS*, 472, 4832, doi: [10.1093/mnras/stx2289](https://doi.org/10.1093/mnras/stx2289)

- Whiting, A. B., Hau, G. K. T., & Irwin, M. 1999, *AJ*, 118, 2767, doi: [10.1086/301142](https://doi.org/10.1086/301142)
- . 2002, *ApJS*, 141, 123, doi: [10.1086/340037](https://doi.org/10.1086/340037)
- Whiting, A. B., Irwin, M. J., & Hau, G. K. T. 1997, *AJ*, 114, 996, doi: [10.1086/118530](https://doi.org/10.1086/118530)
- Willman, B., Geha, M., Strader, J., et al. 2011, *AJ*, 142, 128, doi: [10.1088/0004-6256/142/4/128](https://doi.org/10.1088/0004-6256/142/4/128)
- Willman, B., & Strader, J. 2012, *AJ*, 144, 76, doi: [10.1088/0004-6256/144/3/76](https://doi.org/10.1088/0004-6256/144/3/76)
- Willman, B., Blanton, M. R., West, A. A., et al. 2005a, *AJ*, 129, 2692, doi: [10.1086/430214](https://doi.org/10.1086/430214)
- Willman, B., Dalcanton, J. J., Martinez-Delgado, D., et al. 2005b, *ApJL*, 626, L85, doi: [10.1086/431760](https://doi.org/10.1086/431760)
- Willman, B., Masjedi, M., Hogg, D. W., et al. 2006, arXiv e-prints, astro. <https://arxiv.org/abs/astro-ph/0603486>
- Wilson, A. G. 1955, *PASP*, 67, 27, doi: [10.1086/126754](https://doi.org/10.1086/126754)
- Wojno, J., Gilbert, K. M., Kirby, E. N., et al. 2020, *ApJ*, 895, 78, doi: [10.3847/1538-4357/ab8ccb](https://doi.org/10.3847/1538-4357/ab8ccb)
- Wolf, J., Martinez, G. D., Bullock, J. S., et al. 2010, *MNRAS*, 406, 1220, doi: [10.1111/j.1365-2966.2010.16753.x](https://doi.org/10.1111/j.1365-2966.2010.16753.x)
- Wolf, M. 1906, *MNRAS*, 67, 91
- . 1909, *Astronomische Nachrichten*, 183, 187, doi: [10.1002/asna.19091831204](https://doi.org/10.1002/asna.19091831204)
- Wyder, T. K., Hodge, P. W., & Zucker, D. B. 2000, *PASP*, 112, 1162, doi: [10.1086/316614](https://doi.org/10.1086/316614)
- Ying, J. M., Chaboyer, B., Boudreaux, E. M., et al. 2023, *AJ*, 166, 18, doi: [10.3847/1538-3881/acd9b1](https://doi.org/10.3847/1538-3881/acd9b1)
- Young, L. M., Skillman, E. D., Weisz, D. R., & Dolphin, A. E. 2007, *ApJ*, 659, 331, doi: [10.1086/512153](https://doi.org/10.1086/512153)
- Young, L. M., van Zee, L., Lo, K. Y., Dohm-Palmer, R. C., & Beierle, M. E. 2003, *ApJ*, 592, 111, doi: [10.1086/375581](https://doi.org/10.1086/375581)
- Zivick, P., Kallivayalil, N., van der Marel, R. P., et al. 2018, *ApJ*, 864, 55, doi: [10.3847/1538-4357/aad4b0](https://doi.org/10.3847/1538-4357/aad4b0)
- Zoutendijk, S. L., Brinchmann, J., Boogaard, L. A., et al. 2020, *A&A*, 635, A107, doi: [10.1051/0004-6361/201936155](https://doi.org/10.1051/0004-6361/201936155)
- Zoutendijk, S. L., Júlio, M. P., Brinchmann, J., et al. 2021, arXiv e-prints, arXiv:2112.09374. <https://arxiv.org/abs/2112.09374>
- Zucker, D. B., Kniazev, A. Y., Bell, E. F., et al. 2004, *ApJL*, 612, L121, doi: [10.1086/424691](https://doi.org/10.1086/424691)
- Zucker, D. B., Belokurov, V., Evans, N. W., et al. 2006a, *ApJL*, 643, L103, doi: [10.1086/505216](https://doi.org/10.1086/505216)
- . 2006b, *ApJL*, 650, L41, doi: [10.1086/508628](https://doi.org/10.1086/508628)
- Zucker, D. B., Kniazev, A. Y., Martínez-Delgado, D., et al. 2007, *ApJL*, 659, L21, doi: [10.1086/516748](https://doi.org/10.1086/516748)
- Zwicky, F. 1942, *Physical Review*, 61, 489, doi: [10.1103/PhysRev.61.489](https://doi.org/10.1103/PhysRev.61.489)
- . 1959, *Carnegie Inst. Washington Yearbook*, 58, 60