Table 1. Properties of Local Group dwarf galaxies

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
Large Magellanic Cloud	Nubecula Major	05:23:34.6	-69:45:22.0			Dwarf Galaxy
Small Magellanic Cloud	Nubecula Minor NGC 292	00:52:37.9	-72:48:01.1			Dwarf Galaxy
Fornax	ESO 356-G04 PGC 10074 PGC 10093	02:39:50.0	-34:29:58.9	Shapley (1938a)		Dwarf Galaxy
Sculptor	ESO 351-G30	01:00:04.4	-33:43:07.0	Shapley (1938b)		Dwarf Galaxy
Leo I	UGC 5470 DDO 74 Regulus Dwarf	10:08:27.5	+12:18:21.2	Harrington & Wilson (1950)		Dwarf Galaxy
Leo II	Leo B UGC 6253 DDO 93	11:13:27.0	+22:09:10.4	Harrington & Wilson (1950)		Dwarf Galaxy
Draco	UGC 10822 DDO 208	17:20:16.4	+57:55:06.6	Wilson (1955)		Dwarf Galaxy
Ursa Minor	UGC 9749 DDO 199 PGC 54074	15:08:58.1	+67:13:19.6	Wilson (1955)		Dwarf Galaxy
Carina	ESO 206-G220	06:41:37.6	-50:57:33.5	Cannon et al. (1977)		Dwarf Galaxy
Sextans		10:13:03.1	-01:36:47.9	Irwin et al. (1990)		Dwarf Galaxy
Sagittarius		18:55:19.5	-30:32:43.4	Ibata et al. (1994)		Dwarf Galaxy
Willman 1	SDSS J1049+5103	10:49:22.5	+51:03:00.4	Willman et al. (2005a)		Dwarf Galaxy
Ursa Major I		10:35:04.9	+51:56:52.4	Willman et al. (2005b)		Dwarf Galaxy
Bootes I		14:00:04.8	+14:30:48.6	Belokurov et al. (2006)		Dwarf Galaxy
Canes Venatici I		13:28:02.2	+33:33:07.6	Zucker et al. (2006a)		Dwarf Galaxy
Canes Venatici II	SDSS J1257+3419	12:57:10.2	+34:19:21.4	Belokurov et al. (2007) Sakamoto & Hasegawa (2006)		Dwarf Galaxy

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	$\deg$			
Coma Berenices		12:26:58.9	+23:54:24.8	Belokurov et al. (2007)		Dwarf Galaxy
Hercules		16:31:05.3	+12:47:06.7	Belokurov et al. (2007)		Dwarf Galaxy
Leo IV		11:32:57.7	-00:32:43.1	Belokurov et al. (2007)		Dwarf Galaxy
Segue 1		10:07:00.1	+16:04:32.2	Belokurov et al. (2007)		Dwarf Galaxy
Ursa Major II		08:51:29.4	+63:08:00.6	Zucker et al. (2006b)		Dwarf Galaxy
Bootes II		13:58:03.4	+12:51:19.1	Walsh et al. (2007)		Dwarf Galaxy
Bootes III		13:57:12.0	+26:48:00.0	Grillmair (2009)		
Leo V		11:31:08.6	+02:13:09.8	Belokurov et al. (2008)		Dwarf Galaxy
Segue 2		02:19:17.4	+20:09:44.6	Belokurov et al. (2009)		Dwarf Galaxy
Pisces II		22:58:32.7	+05:57:20.0	Belokurov et al. (2010)		Dwarf Galaxy
Cetus II	DES J0117-1725	01:17:52.8	-17:25:12.0	Drlica-Wagner et al. (2015)		
Columba I	DES J0531-2801	05:31:25.7	-28:02:33.1	Drlica-Wagner et al. (2015)		
Eridanus II	DES J0344.3-4331	03:44:22.2	-43:31:58.4	Bechtol et al. (2015)		Dwarf Galaxy
				Koposov et al. (2015a)		
Grus I		22:56:39.8	-50:10:04.8	Koposov et al. (2015a)		Dwarf Galaxy
Grus II	DES J2204-4626	22:04:06.0	-46:26:31.2	Drlica-Wagner et al. (2015)		Dwarf Galaxy
Horologium I	DES J0255.4-5406	02:55:31.5	-54:06:57.6	Bechtol et al. (2015)		Dwarf Galaxy
				Koposov et al. (2015a)		
Horologium II		03:16:25.8	-50:02:55.0	Kim & Jerjen (2015a)	Cand.	
Hydra II		12:21:42.0	-31:59:09.6	Martin et al. (2015)		Dwarf Galaxy
Pegasus III		22:24:25.8	+05:24:54.2	Kim et al. (2015a)		Dwarf Galaxy
Phoenix II	DES J2339.9-5424	23:39:59.0	-54:24:41.4	Bechtol et al. (2015)		Dwarf Galaxy
				Koposov et al. (2015a)		
Pictor I	DES J0443.8-5017	04:43:47.4	-50:16:59.0	Bechtol et al. (2015)		
	Pictoris I			Koposov et al. (2015a)		
Reticulum II	DES J0335.6-5403	03:35:40.9	-54:03:04.7	Bechtol et al. (2015)		Dwarf Galaxy
				Koposov et al. (2015a)		
Reticulum III	DES J0345-6026	03:45:26.4	-60:27:00.0	Drlica-Wagner et al. (2015)		Dwarf Galaxy
Triangulum II	Laevens 2	02:13:18.0	+36:10:12.7	Laevens et al. (2015a)		Dwarf Galaxy
Tucana II	DES J2251.2-5836	22:51:55.1	-58:34:08.0	Bechtol et al. (2015)		Dwarf Galaxy

Table 1 continued on next page

Table 1 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		deg	deg			
				Koposov et al. (2015a)		
Tucana III	DES J2356-5935	23:56:25.8	-59:35:00.0	Drlica-Wagner et al. (2015)		
Tucana IV	DES J0002-6051	00:02:52.1	-60:49:48.0	Drlica-Wagner et al. (2015)		Dwarf Galaxy
Tucana V	DES J2337-6316	23:37:23.3	-63:15:57.6	Drlica-Wagner et al. (2015)		
Aquarius II		22:33:55.5	-09:19:38.6	Torrealba et al. (2016b)		Dwarf Galaxy
Crater II		11:49:14.4	-18:24:46.8	Torrealba et al. (2016a)		Dwarf Galaxy
Pictor II		06:44:43.2	-59:53:49.2	Drlica-Wagner et al. (2016)		
Virgo I	$HSC\ J1200-0040$	12:00:09.1	-00:40:51.6	Homma et al. (2016)		
Carina II		07:36:25.6	-57:59:56.8	Torrealba et al. (2018)		Dwarf Galaxy
Carina III		07:38:31.2	-57:53:58.9	Torrealba et al. (2018)		Dwarf Galaxy
Cetus III	HSC J0209-0416	02:05:19.4	-04:16:12.0	Homma et al. (2018)	Cand.	
Hydrus I		02:29:33.4	-79:18:32.0	Koposov et al. (2018)		Dwarf Galaxy
Antlia II		09:35:13.9	-36:41:56.8	Torrealba et al. (2019b)		Dwarf Galaxy
Bootes IV	HSC J1534+4343	15:34:45.4	+43:43:33.6	Homma et al. (2019)		
Centaurus I		12:38:20.4	-40:54:07.2	Mau et al. (2020)		Dwarf Galaxy
Eridanus IV		05:05:45.1	-09:30:54.0	Cerny et al. (2021a)		Dwarf Galaxy
Bootes V	DELVE J1415+3254	14:15:38.2	+32:54:50.4	Smith et al. (2023)		
				Cerny et al. (2023a)		
Leo Minor I	DELVE J1057+2852	10:57:02.6	+28:52:30.0	Cerny et al. (2023a)		
Pegasus IV		21:54:09.4	+26:37:12.0	Cerny et al. (2023b)		Dwarf Galaxy
Virgo II	DELVE J1500+0554	15:00:14.2	+05:54:32.4	Cerny et al. (2023a)	Cand.	
Sextans II	KiDS-UFD-1	10:25:44.9	-00:37:51.6	Homma et al. (2023)		
				Gatto et al. (2023)		
Virgo III		12:25:23.5	+04:26:27.6	Homma et al. (2023)	Cand.	

Table 2. Properties of Milky Way dwarf galaxies

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
Antlia II	143.8079	-36.6991	$104.60 \pm 8.60$	$0.60 \pm 0.04$	$156.0 \pm 2.4$	$2366.4^{+261.0}_{-241.2}$	$20.47 \pm 0.09$	$124.2^{+5.3}_{-5.0}$	10.7	$-9.7 \pm 0.1$	a,b
Aquarius II	338.4813	-9.3274	$5.10 \pm 0.80$	$0.39 \pm 0.09$	$121.0 \pm 9.0$	$124.9^{+23.3}_{-20.7}$	$20.16\pm0.07$	$107.6^{+3.5}_{-3.4}$	15.8	$-4.4 \pm 0.1$	$^{\mathrm{c}}$
Bootes I	210.0200	14.5135	$9.97 \pm 0.27$	$0.30 \pm 0.03$	$6.0 \pm 3.0$	$160.9^{+8.2}_{-7.8}$	$19.11 \pm 0.08$	$66.4^{+2.5}_{-2.4}$	13.1	$-6.0 \pm 0.2$	$_{ m d,e}$
Bootes II	209.5141	12.8553	$3.17 \pm 0.42$	$0.25 \pm 0.11$	$-68.0\pm27.0$	$32.7^{+5.2}_{-4.9}$	$18.10 \pm 0.06$	$41.7^{+1.2}_{-1.1}$	15.2	$-2.9 \pm 0.2$	$_{\mathrm{e,f}}$
Bootes III	209.3000	26.8000	$40.60^{+4.20}_{-3.80}$	$0.33^{+0.08}_{-0.09}$	$279.0_{-9.0}^{+7.0}$	$447.7^{+54.1}_{-53.9}$	$18.34 \pm 0.02$	$46.6 \pm 0.4$	12.6	$-5.7 \pm 0.5$	$_{\mathrm{g,h,i}}$
Bootes IV	233.6890	43.7260	$7.60 \pm 0.80$	$0.64 \pm 0.05$	$3.0 \pm 4.0$	$270.9_{-37.4}^{+45.7}$	$21.60 \pm 0.20$	$208.9^{+20.2}_{-18.4}$	16.3	$-5.3^{+0.3}_{-0.2}$	$_{ m j,k}$
Bootes V	213.9090	32.9140	$0.76^{+0.08}_{-0.07}$	$0.20\pm0.10$	$18.0^{+15.0}_{-13.0}$	$19.9^{+2.6}_{-2.8}$	$20.04 \pm 0.15$	$101.9^{+7.3}_{-6.8}$	16.8	$-3.2\pm0.3$	1
Canes Venatici I	202.0091	33.5521	$7.12 \pm 0.21$	$0.44 \pm 0.03$	$80.0 \pm 2.0$	$326.5^{+16.2}_{-15.5}$	$21.62 \pm 0.06$	$210.9^{+5.9}_{-5.7}$	12.9	$-8.7 \pm 0.1$	$_{\mathrm{m,e}}$
Canes Venatici II	194.2927	34.3226	$1.52 \pm 0.24$	$0.40 \pm 0.13$	$9.0 \pm 15.0$	$54.3^{+11.2}_{-10.5}$	$21.02 \pm 0.06$	$160.0^{+4.5}_{-4.4}$	15.8	$-5.2 \pm 0.3$	$_{\mathrm{n,e}}$
Carina	100.4065	-50.9593	$10.10\pm0.10$	$0.36 \pm 0.01$	$60.0 \pm 1.0$	$249.0^{+11.5}_{-14.0}$	$20.12 \pm 0.11$	$105.6^{+5.5}_{-5.3}$	10.7	$-9.4 \pm 0.1$	$_{ m o,e}$
Carina II	114.1066	-57.9991	$8.69 \pm 0.75$	$0.34 \pm 0.07$	$170.0 \pm 9.0$	$77.0^{+7.8}_{-8.1}$	$17.86 \pm 0.02$	$37.4 \pm 0.4$	13.3	$-4.6 \pm 0.1$	p
Carina III	114.6298	-57.8997	$3.75\pm1.00$	$0.55 \pm 0.18$	$150.0\pm14.0$	$19.6^{+7.2}_{-6.2}$	$17.22\pm0.10$	$27.8 \pm 1.3$	14.8	$-2.4 \pm 0.2$	p
Centaurus I	189.5850	-40.9020	$2.90^{+0.50}_{-0.40}$	$0.40 \pm 0.10$	$20.0 \pm 11.0$	$75.1^{+13.1}_{-12.2}$	$20.33^{+0.03}_{-0.01}$	$116.4^{+1.6}_{-0.5}$	14.8	$-5.5 \pm 0.1$	$\mathbf{q}$
Cetus II	19.4700	-17.4200	$1.90^{+1.00}_{-0.50}$	< 0.40		$16.2^{+7.0}_{-6.7}$	$17.38 \pm 0.19$	$29.9^{+2.7}_{-2.5}$	17.4	$0.0 \pm 0.7$	r
Cetus III	31.3310	-4.2700	$1.23^{+0.42}_{-0.19}$	$0.76^{+0.06}_{-0.08}$	$101.0^{+5.0}_{-6.0}$	$42.7^{+13.5}_{-11.6}$	$22.00\pm0.20$	$251.2^{+24.2}_{-22.1}$	18.6	$-3.4^{+0.5}_{-0.4}$	$_{\rm s,k}$
Columba I	82.8570	-28.0425	$2.20 \pm 0.20$	$0.30 \pm 0.10$	$24.0 \pm 9.0$	$97.3^{+12.3}_{-11.6}$	$21.31 \pm 0.11$	$182.8^{+9.5}_{-9.0}$	17.1	$-4.2 \pm 0.2$	$\mathbf{t}$
Coma Berenices	186.7454	23.9069	$5.64 \pm 0.30$	$0.37 \pm 0.05$	$-57.0 \pm 4.0$	$55.2^{+4.1}_{-4.2}$	$18.13 \pm 0.08$	$42.3_{-1.5}^{+1.6}$	13.8	$-4.3 \pm 0.2$	$_{\mathrm{e,u}}$
Crater II	177.3100	-18.4130	$31.20 \pm 2.50$	< 0.10		$1064.0^{+82.0}_{-83.2}$	$20.35 \pm 0.02$	$117.5\pm1.1$	12.2	$-8.2 \pm 0.1$	v
Draco	260.0684	57.9185	$9.67 \pm 0.09$	$0.29 \pm 0.01$	$87.0 \pm 1.0$	$190.9^{+6.1}_{-6.4}$	$19.53 \pm 0.07$	$80.5 \pm 2.6$	10.7	$-8.8 \pm 0.1$	$_{\mathrm{e,w}}$
Eridanus II	56.0925	-43.5329	$2.31 \pm 0.12$	$0.48 \pm 0.04$	$72.6 \pm 3.3$	$178.6^{+12.8}_{-12.7}$	$22.84 \pm 0.05$	$369.8^{+8.6}_{-8.4}$	15.7	$-7.1 \pm 0.3$	$_{x,y}$
Eridanus IV	76.4380	-9.5150	$4.90^{+1.10}_{-0.80}$	$0.54^{+0.10}_{-0.14}$	$65.0^{+9.0}_{-8.0}$	$71.7^{+18.3}_{-16.6}$	$19.42^{+0.01}_{-0.08}$	$76.6^{+0.4}_{-2.8}$	14.7	$-4.7 \pm 0.2$	${f z}$
Fornax	39.9583	-34.4997	$19.90\pm0.06$	$0.29 \pm 0.00$	$42.7 \pm 0.3$	$696.7^{+13.6}_{-16.2}$	$20.77 \pm 0.05$	$142.6^{+3.2}_{-3.1}$	7.4	$-13.4\pm0.2$	$_{\rm e,aa,ab}$
Grus I	344.1660	-50.1680	$4.16^{+0.54}_{-0.74}$	$0.44^{+0.08}_{-0.10}$	$153.0^{+8.0}_{-7.0}$	$114.0^{+20.0}_{-19.9}$	$20.51 \pm 0.10$	$126.5^{+6.0}_{-5.7}$	16.4	$-4.1\pm0.3$	ac,ad
Grus II	331.0250	-46.4420	$5.90 \pm 0.50$	< 0.21		$94.2^{+8.9}_{-8.1}$	$18.71 \pm 0.10$	$55.2^{+2.6}_{-2.5}$	15.2	$-3.5 \pm 0.3$	$_{ m ad,ae}$
Hercules	247.7722	12.7852	$5.63 \pm 0.46$	$0.69 \pm 0.03$	$-73.0 \pm 2.0$	$119.2^{+12.3}_{-11.7}$	$20.58 \pm 0.10$	$130.6^{+6.2}_{-5.9}$	14.8	$-5.8 \pm 0.2$	$_{\mathrm{e,af}}$
Horologium I	43.8813	-54.1160	$1.70 \pm 0.10$	$0.16^{+0.06}_{-0.05}$	$67.0^{+13.0}_{-14.0}$	$35.9^{+2.9}_{-3.1}$	$19.50\pm0.10$	$79.4^{+3.7}_{-3.6}$	16.1	$-3.4\pm0.1$	$_{\mathrm{ag,i}}$
Horologium II	49.1077	-50.0486	$2.09^{+0.44}_{-0.41}$	$0.52^{+0.13}_{-0.17}$	$127.0\pm11.0$	$31.5^{+10.3}_{-9.0}$	$19.46\pm0.20$	$78.0^{+7.5}_{-6.9}$	16.9	$-2.6^{+0.2}_{-0.3}$	ah

Table 2 continued on next page

Table 2 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	θ	$r_h$	$(m - M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
Hydra II	185.4251	-31.9860	$1.70^{+0.30}_{-0.20}$	$0.01^{+0.19}_{-0.01}$	$28.0^{+40.0}_{-35.0}$	$71.4^{+10.9}_{-10.3}$	$20.90 \pm 0.11$	$151.4^{+7.9}_{-7.5}$	15.8	$-5.1 \pm 0.3$	ai,a
Hydrus I	37.3890	-79.3089	$7.42^{+0.62}_{-0.54}$	$0.21^{+0.15}_{-0.07}$	$97.0 \pm 14.0$	$52.0_{-5.1}^{+5.9}$	$17.20 \pm 0.04$	$27.5 \pm 0.5$	12.5	$-4.7\pm0.1$	ak
Leo I	152.1146	12.3059	$3.65 \pm 0.03$	$0.30 \pm 0.10$	$78.0 \pm 1.0$	$228.1^{+18.1}_{-19.0}$	$22.06\pm0.08$	$258.2^{+9.7}_{-9.3}$	10.2	$-11.8 \pm 0.3$	e,al
Leo II	168.3627	22.1529	$2.52 \pm 0.03$	$0.07 \pm 0.01$	$38.0 \pm 8.0$	$164.7^{+9.5}_{-10.3}$	$21.84 \pm 0.13$	$233.3_{-13.6}^{+14.4}$	12.1	$-9.7 \pm 0.0$	am,
Leo IV	173.2405	-0.5453	$2.54 \pm 0.27$	$0.17 \pm 0.09$	$-28.0 \pm 38.0$	$102.1_{-12.5}^{+11.7}$	$20.90 \pm 0.06$	$151.4_{-4.1}^{+4.2}$	15.9	$-4.9 \pm 0.3$	$an,\epsilon$
Leo Minor I	164.2610	28.8750	$1.09_{-0.35}^{+0.37}$	< 0.40		$25.8_{-8.6}^{+9.5}$	$19.56^{+0.11}_{-0.19}$	$81.7^{+4.2}_{-6.8}$	17.2	$-2.4^{+0.5}_{-0.4}$	1
Leo V	172.7857	2.2194	$1.00\pm0.32$	$0.43 \pm 0.22$	$-71.0\pm26.0$	$35.2^{+14.1}_{-13.6}$	$21.14 \pm 0.06$	$169.0^{+4.7}_{-4.6}$	16.7	$-4.4 \pm 0.4$	$_{ m an,\epsilon}$
Pegasus III	336.1074	5.4150	$1.67^{+0.26}_{-0.21}$	$0.37^{+0.08}_{-0.09}$	$83.0^{+8.0}_{-7.0}$	$82.1_{-13.7}^{+13.5}$	$21.66 \pm 0.12$	$214.8^{+12.2}_{-11.5}$	17.5	$-4.2\pm0.2$	ao,a
Pegasus IV	328.5390	26.6200	$1.60^{+0.29}_{-0.25}$	< 0.41	$115.0^{+27.0}_{-41.0}$	$41.9^{+6.6}_{-6.9}$	$19.77 \pm 0.03$	$89.9^{+1.3}_{-1.2}$	15.5	$-4.2\pm0.2$	aq
Phoenix II	354.9960	-54.4115	$1.50 \pm 0.30$	$0.40 \pm 0.10$	$156.0\pm13.0$	$27.4_{-5.9}^{+6.7}$	$19.60\pm0.20$	$83.2^{+8.0}_{-7.3}$	16.9	$-2.7\pm0.4$	ar
Pictor I	70.9475	-50.2831	$1.29 \pm 0.15$	$0.44^{+0.07}_{-0.09}$	$55.0 \pm 6.0$	$32.0_{-4.6}^{+4.7}$	$20.30 \pm 0.10$	$114.8^{+5.4}_{-5.2}$	17.2	$-3.1\pm0.3$	$_{ m ag,i}$
Pictor II	101.1800	-59.8970	$3.80^{+1.50}_{-1.00}$	$0.13^{+0.22}_{-0.13}$	$14.0^{+60.0}_{-66.0}$	$45.1^{+16.3}_{-16.4}$	$18.30^{+0.12}_{-0.15}$	$45.7^{+2.6}_{-3.1}$	15.1	$-3.2^{+0.4}_{-0.5}$	as
Pisces II	344.6365	5.9555	$1.34^{+0.08}_{-0.07}$	$0.37^{+0.04}_{-0.03}$	$98.0 \pm 3.0$	$56.3^{+5.9}_{-5.7}$	$21.31 \pm 0.17$	$182.8^{+14.9}_{-13.8}$	17.0	$-4.3\pm0.2$	ap,a
Reticulum II	53.9203	-54.0513	$6.30 \pm 0.40$	$0.60 \pm 0.10$	$68.0 \pm 2.0$	$36.7 \pm 5.7$	$17.50 \pm 0.10$	$31.6^{+1.5}_{-1.4}$	14.4	$-3.1\pm0.1$	ar
Reticulum III	56.3600	-60.4500	$2.40^{+0.90}_{-0.80}$	< 0.40		$63.3^{+25.1}_{-23.7}$	$19.81 \pm 0.31$	$91.6^{+14.1}_{-12.2}$	16.5	$-3.3\pm0.3$	r
Sagittarius	283.8313	-30.5454	$342.00 \pm 12.00$	$0.64 \pm 0.02$	$102.0 \pm 2.0$	$1565.8^{+136.2}_{-130.8}$	$17.10 \pm 0.15$	$26.3^{+1.9}_{-1.8}$	3.6	$-13.5\pm0.3$	au
Sculptor	15.0183	-33.7186	$11.17 \pm 0.05$	$0.33 \pm 0.01$	$92.0 \pm 1.0$	$223.1_{-4.6}^{+5.0}$	$19.62\pm0.04$	$83.9^{+1.6}_{-1.5}$	8.8	$-10.8\pm0.1$	av,e
Segue 1	151.7504	16.0756	$3.62 \pm 0.42$	$0.33 \pm 0.10$	$77.0 \pm 15.0$	$19.5^{+3.5}_{-3.2}$	$16.80\pm0.20$	$22.9^{+2.2}_{-2.0}$	15.5	$-1.3\pm0.7$	aw,e
Segue 2	34.8226	20.1624	$3.76 \pm 0.28$	$0.22 \pm 0.07$	$164.0\pm14.0$	$35.1_{-3.6}^{+4.0}$	$17.81^{+0.14}_{-0.15}$	$36.5 \pm 2.4$	15.9	$-1.9 \pm 0.9$	$ax,\epsilon$
Sextans	153.2628	-1.6133	$16.50\pm0.10$	$0.30 \pm 0.01$	$57.0 \pm 1.0$	$345.2^{+16.8}_{-16.4}$	$19.67 \pm 0.10$	$85.9^{+4.0}_{-3.9}$	10.9	$-8.7\pm0.1$	$_{ m ay,\epsilon}$
Sextans II	156.4370	-0.6310	$4.20 \pm 0.50$	$0.43^{+0.07}_{-0.08}$	$-17.0 \pm 9.0$	$113.3^{+21.0}_{-17.8}$	$20.50 \pm 0.20$	$125.9^{+12.1}_{-11.1}$	16.6	$-3.9 \pm 0.4$	k
Triangulum II	33.3252	36.1702	$2.50 \pm 0.30$	$0.30 \pm 0.10$	$73.0 \pm 17.0$	$17.2^{+2.8}_{-2.5}$	$17.27 \pm 0.11$	$28.4^{+1.5}_{-1.4}$	16.1	$-1.2\pm0.4$	$\mathbf{t}$
Tucana II	342.9796	-58.5689	$12.89^{+1.71}_{-1.98}$	$0.39^{+0.10}_{-0.20}$	$107.0\pm18.0$	$160.1^{+37.0}_{-31.4}$	$18.75\pm0.20$	$56.2^{+5.4}_{-4.9}$	15.0	$-3.8\pm0.1$	$_{ m ag,a}$
Tucana III	359.1075	-59.5833	$5.10 \pm 1.20$	$0.20\pm0.10$	$25.0 \pm 38.0$	$30.4 \pm 7.6$	$16.80 \pm 0.10$	$22.9^{+1.1}_{-1.0}$	15.5	$-1.3\pm0.2$	ar
Tucana IV	0.7170	-60.8300	$9.30^{+1.40}_{-0.90}$	$0.39^{+0.07}_{-0.10}$	$27.0^{+9.0}_{-8.0}$	$99.1^{+17.3}_{-14.6}$	$18.36\pm0.18$	$47.0_{-3.7}^{+4.1}$	15.4	$-3.0^{+0.3}_{-0.4}$	ae
Tucana V	354.3470	-63.2660	$2.10^{+0.60}_{-0.40}$	$0.51^{+0.09}_{-0.18}$	$29.0 \pm 11.0$	$22.8_{-6.2}^{+7.6}$	$18.70 \pm 0.21$	$55.0^{+5.6}_{-5.1}$	17.6	$-1.1^{+0.5}_{-0.6}$	ae
Ursa Major I	158.7706	51.9479	$8.31 \pm 0.35$	$0.59 \pm 0.03$	$67.0 \pm 2.0$	$149.1^{+12.8}_{-11.5}$	$19.94\pm0.13$	$97.3^{+6.0}_{-5.7}$	14.8	$-5.1\pm0.4$	ba,
Ursa Major II	132.8726	63.1335	$13.80\pm0.50$	$0.56 \pm 0.03$	$-76.0\pm2.0$	$92.2^{+7.4}_{-7.2}$	$17.70 \pm 0.13$	$34.7^{+2.1}_{-2.0}$	13.3	$-4.4\pm0.3$	bb,
Ursa Minor	227.2420	67.2221	$18.30\pm0.11$	$0.55 \pm 0.01$	$50.0 \pm 1.0$	$236.0^{+2.9}_{-3.0}$	19.10	66.1	10.4	$-8.7\pm0.1$	e,bo
Virgo I	180.0380	-0.6810	$1.76^{+0.49}_{-0.40}$	$0.59^{+0.12}_{-0.14}$	$62.0^{+8.0}_{-13.0}$	$29.1^{+9.8}_{-8.3}$	$19.80\pm0.20$	$91.2^{+8.8}_{-8.0}$	18.9	$-0.9 \pm 0.7$	$_{ m s,k}$

Table 2 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m - M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
Virgo II	225.0590	5.9090	$0.74^{+0.13}_{-0.11}$	< 0.30		$15.5 \pm 3.0$	$19.30 \pm 0.22$	$72.4_{-7.0}^{+7.7}$	17.7	$-1.6^{+0.4}_{-0.6}$	1
Virgo III	186.3480	4.4410	$1.00\pm0.20$	$0.29^{+0.15}_{-0.19}$	$-24.0^{+21.0}_{-26.0}$	$36.1^{+9.6}_{-8.6}$	$20.90\pm0.20$	$151.4^{+14.6}_{-13.3}$	18.2	$-2.7^{+0.5}_{-0.6}$	k
Willman 1	162.3436	51.0501	$2.51 \pm 0.22$	$0.47 \pm 0.06$	$73.0 \pm 4.0$	$19.9^{+4.6}_{-4.0}$	$17.90\pm0.40$	$38.0^{+7.7}_{-6.4}$	15.4	$-2.5\pm0.7$	$_{\mathrm{e,bd}}$

Note—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) Moskowitz & 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) Mau et al. (2020) (r) Drlica-Wagner et al. (2015) (s) Homma et al. (2018) (t) Carlin et al. (2017) (u) Musella et al. (2009) (v) Torrealba et al. (2016a) (w) Muraveva et al. (2020) (x) Crnojević et al. (2016) (y) Martínez-Vázquez et al. (2021) (z) Cerny et al. (2021a) (aa) Oakes et al. (2022) (ab) Wang et al. (2019a) (ac) Cantu et al. (2021) (ad) Martínez-Vázquez et al. (2019) (ae) Simon et al. (2020) (af) Mutlu-Pakdil et al. (2020) (ag) Koposov et al. (2015a) (ah) Kim & Jerjen (2015a) (ai) Martin et al. (2015) (aj) Vivas et al. (2016) (ak) Koposov et al. (2018) (al) Stetson et al. (2014) (am) Bellazzini et al. (2005) (an) Medina et al. (2018) (ao) Kim et al. (2016b) (ap) Richstein et al. (2022) (aq) Cerny et al. (2023b) (ar) Mutlu-Pakdil et al. (2018) (as) Drlica-Wagner et al. (2016) (at) Sand et al. (2012) (au) McConnachie (2012) (av) Martínez-Vázquez et al. (2015) (aw) Belokurov et al. (2007) (ax) Boettcher et al. (2013) (ay) Lee et al. (2009) (az) Vivas et al. (2020) (ba) Garofalo et al. (2013) (bb) Dall'Ora et al. (2012) (bc) Nemec et al. (1988) (bd) Willman et al. (2006)

Table 3. Properties of Milky Way dwarf galaxies

N.	1	1			[D /II]				D.C
Name	l	b	$v_{ m los}$ km s <sup>-1</sup>	$\sigma_{ m los}$	[Fe/H]	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	deg	deg		${\rm km~s^{-1}}$			$mas yr^{-1}$	mas yr <sup>-1</sup>	
Antlia II	264.8009	11.2543	$288.8 \pm 0.4$	$5.98^{+0.37}_{-0.36}$	$-1.90 \pm 0.04$	$0.34 \pm 0.03$	$-0.093 \pm 0.008$	$0.100 \pm 0.009$	$_{\mathrm{a,b}}$
Aquarius II	55.1082	-53.0085	$-65.3 \pm 1.8$	$4.70^{+1.80}_{-1.20}$	$-2.57 \pm 0.17$	$0.36^{+0.20}_{-0.14}$	$-0.179^{+0.119}_{-0.113}$	$-0.466^{+0.096}_{-0.095}$	$_{c,b}$
Bootes I	358.1019	69.6366	$101.8 \pm 0.7$	$4.60^{+0.80}_{-0.60}$	$-2.35^{+0.09}_{-0.08}$	$0.44^{+0.07}_{-0.06}$	$-0.385 \pm 0.017$	$-1.068 \pm 0.013$	$_{ m d,b}$
Bootes II	353.7314	68.8649	$-130.4^{+1.4}_{-1.1}$	$2.90^{+1.60}_{-1.20}$	$-2.71^{+0.11}_{-0.10}$		$-2.426^{+0.080}_{-0.077}$	$-0.414 \pm 0.061$	$_{\rm c,b}$
Bootes III	35.4052	75.3535	$197.5 \pm 3.8$	$14.00\pm3.20$	$-2.10\pm0.20$	0.60	$-1.176 \pm 0.019$	$-0.890 \pm 0.015$	$_{\mathrm{e,b}}$
Bootes IV	70.6823	53.3050					$0.469^{+0.180}_{-0.244}$	$0.489^{+0.256}_{-0.255}$	b
Bootes V	55.6680	70.9177	$5.1 \pm 13.4$		$-2.85\pm0.10$		$-0.220 \pm 0.050$	$-0.280 \pm 0.070$	$_{\rm f,g}$
Canes Venatici I	74.3043	79.8288	$30.9 \pm 0.6$	$7.60 \pm 0.40$	$-1.91\pm0.04$	$0.39^{+0.03}_{-0.02}$	$-0.096^{+0.030}_{-0.031}$	$-0.116 \pm 0.020$	$_{\rm b,h}$
Canes Venatici II	113.5744	82.7012	$-128.9\pm1.2$	$4.60 \pm 0.80$	$-2.35^{+0.16}_{-0.19}$	$0.57^{+0.15}_{-0.12}$	$-0.124^{+0.117}_{-0.115}$	$-0.254^{+0.082}_{-0.080}$	$_{\rm b,h}$
Carina	260.1060	-22.2194	$222.9 \pm 0.1$	$6.60 \pm 1.20$	$-1.80 \pm 0.02$	0.24	$0.532^{+0.007}_{-0.006}$	$0.127\pm0.006$	$_{\rm b,i}$
Carina II	269.9816	-17.1398	$477.2 \pm 1.2$	$3.40^{+1.20}_{-0.80}$	$-2.44 \pm 0.09$	$0.22^{+0.10}_{-0.07}$	$1.885^{+0.018}_{-0.019}$	$0.133 \pm 0.019$	$_{ m j,b}$
Carina III	270.0060	-16.8458	$284.6^{+3.4}_{-3.1}$	$5.60^{+4.30}_{-2.10}$			$3.095^{+0.040}_{-0.041}$	$1.395 \pm 0.045$	$_{ m j,b}$
Centaurus I	300.2649	21.9019	$44.8 \pm 0.8$	$4.20^{+0.60}_{-0.50}$	$-2.57 \pm 0.08$	$0.38^{+0.07}_{-0.05}$	$-0.140 \pm 0.050$	$-0.190 \pm 0.040$	k
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	$153.7 \pm 4.9$	< 6.70	$-2.37^{+0.35}_{-0.34}$	$0.71^{+0.49}_{-0.24}$	$0.169^{+0.071}_{-0.073}$	$-0.400 \pm 0.079$	$_{ m l,b}$
Coma Berenices	241.8639	83.6123	$98.1 \pm 0.9$	$4.60 \pm 0.80$	$-2.43 \pm 0.11$	$0.46^{+0.09}_{-0.08}$	$0.423^{+0.026}_{-0.027}$	$-1.721 \pm 0.024$	$_{\rm b,h}$
Crater II	282.9084	42.0276	$89.3 \pm 0.3$	$2.34^{+0.42}_{-0.30}$	$-2.16 \pm 0.04$	$0.24 \pm 0.05$	$-0.072 \pm 0.020$	$-0.112 \pm 0.013$	$_{\mathrm{a,b}}$
Draco	86.3711	34.7126	$-290.7 \pm 0.8$	$9.10 \pm 1.20$	$-2.00\pm0.02$	$0.34 \pm 0.02$	$0.044^{+0.005}_{-0.006}$	$-0.188 \pm 0.006$	$_{ m b,m}$
Eridanus II	249.7802	-51.6431	$75.6 \pm 1.3$	$6.90^{+1.20}_{-0.90}$	$-2.38 \pm 0.13$	$0.47^{+0.12}_{-0.90}$	$0.125^{+0.101}_{-0.100}$	$0.013^{+0.123}_{-0.127}$	$_{\mathrm{n,b}}$
Eridanus IV	209.4987	-27.7715	$-31.5^{+1.3}_{-1.2}$	$6.10^{+1.20}_{-0.90}$	$-2.87^{+0.08}_{-0.07}$	$0.20 \pm 0.09$	$0.250 \pm 0.060$	$-0.100 \pm 0.050$	$_{ m o,k}$
Fornax	237.2382	-65.6741	$55.2 \pm 0.1$	$12.10 \pm 0.20$	$-1.07^{+0.02}_{-0.01}$	$0.27 \pm 0.01$	$0.381 \pm 0.001$	$-0.359 \pm 0.002$	$_{\mathrm{b,i}}$
Grus I	338.6794	-58.2366	$-143.5 \pm 1.2$	$2.50^{+1.30}_{-0.80}$	$-2.62 \pm 0.11$		$0.069^{+0.051}_{-0.050}$	$-0.248^{+0.071}_{-0.072}$	$_{\mathrm{p,b}}$
Grus II	351.1386	-51.9414	$-110.0\pm0.5$	< 2.00	$-2.51 \pm 0.11$		$0.384 \pm 0.033$	$-1.484^{+0.039}_{-0.040}$	$_{\mathrm{b,q}}$
Hercules	28.7277	36.8563	$45.0 \pm 1.1$	$5.10 \pm 0.90$	$-2.47^{+0.13}_{-0.12}$	$0.47^{+0.11}_{-0.08}$	$-0.035 \pm 0.042$	$-0.339^{+0.035}_{-0.036}$	b,h
Horologium I	271.3842	-54.7350	$112.8^{+2.5}_{-2.6}$	$4.90^{+2.80}_{-0.90}$	$-2.76 \pm 0.10$	$0.17^{+0.20}_{-0.03}$	$0.847^{+0.034}_{-0.035}$	$-0.607 \pm 0.035$	$_{\mathrm{r,b}}$
Horologium II	262.5313	-54.1391	2.0	0.00		3.30	$0.967^{+0.173}_{-0.171}$	$-0.771^{+0.220}_{-0.230}$	b

Table 3 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	$\rm km\ s^{-1}$	$\rm km\ s^{-1}$			${\rm mas~yr}^{-1}$	${\rm mas~yr}^{-1}$	
Hydra II	295.6170	30.4630	$303.1 \pm 1.4$	< 4.50	$-2.02 \pm 0.08$	$0.40^{+0.48}_{-0.26}$	$-0.394 \pm 0.140$	$0.000^{+0.103}_{-0.104}$	s,b
Hydrus I	297.4163	-36.7463	$80.4 \pm 0.6$	$2.70^{+0.51}_{-0.43}$	$-2.52 \pm 0.09$	$0.41 \pm 0.08$	$3.781 \pm 0.016$	$-1.496 \pm 0.015$	$_{\rm t,b}$
Leo I	225.9847	49.1100	$282.9 \pm 0.5$	$9.20 \pm 0.40$	$-1.48^{+0.02}_{-0.01}$	$0.26 \pm 0.01$	$-0.050 \pm 0.014$	$-0.120 \pm 0.010$	$_{\mathrm{u,b}}$
Leo II	220.1608	67.2252	$78.5 \pm 0.6$	$7.40 \pm 0.40$	$-1.68^{+0.02}_{-0.03}$	$0.34 \pm 0.02$	$-0.109 \pm 0.028$	$-0.150 \pm 0.026$	$_{\mathrm{b,v}}$
Leo IV	265.4577	56.5060	$131.6^{+1.0}_{-1.2}$	$3.40^{+1.30}_{-0.90}$	$-2.48^{+0.16}_{-0.13}$	$0.42^{+0.12}_{-0.10}$	$-0.009 \pm 0.152$	$-0.279_{-0.112}^{+0.115}$	$_{\mathrm{w,b}}$
Leo Minor I	202.2324	64.7496					$-0.010^{+0.390}_{-0.400}$	$-1.290^{+0.370}_{-0.400}$	f
Leo V	261.8564	58.5344	$173.1_{-0.8}^{+1.0}$	< 4.70	$-2.29^{+0.14}_{-0.17}$	$0.30^{+0.14}_{-0.09}$	$0.113 \pm 0.219$	$-0.391^{+0.155}_{-0.153}$	$_{\mathrm{w,b}}$
Pegasus III	69.8599	-41.8262	$-222.9\pm2.6$	$5.40^{+3.00}_{-2.50}$	$-2.55\pm0.15$		$-0.030 \pm 0.210$	$-0.580^{+0.213}_{-0.208}$	$_{\mathrm{x,b}}$
Pegasus IV	80.7972	-21.4031	$-273.6^{+1.6}_{-1.5}$	$3.30^{+1.70}_{-1.10}$	$-2.67^{+0.25}_{-0.29}$	$0.46^{+0.29}_{-0.17}$	$0.330\pm0.070$	$-0.210 \pm 0.080$	у
Phoenix II	323.6820	-59.7439	$32.4 \pm 3.8$	< 21.20	$-2.51^{+0.19}_{-0.17}$	$0.33^{+0.29}_{-0.16}$	$0.507^{+0.047}_{-0.048}$	$-1.199^{+0.058}_{-0.057}$	l,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					$1.150\pm0.060$	$1.140^{+0.060}_{-0.050}$	$\mathbf{z}$
Pisces II	79.2175	-47.1079	$-226.5\pm2.7$	$5.40^{+3.60}_{-2.40}$	$-2.45\pm0.07$	$0.48^{+0.70}_{-0.29}$	$0.681^{+0.309}_{-0.307}$	$-0.645^{+0.215}_{-0.209}$	$_{\mathrm{s,b}}$
Reticulum II	266.3007	-49.7376	$64.3 \pm 1.2$	$3.60^{+1.00}_{-0.70}$	$-2.65\pm0.07$	$0.28 \pm 0.09$	$2.377^{+0.023}_{-0.024}$	$-1.379^{+0.026}_{-0.025}$	b,aa
Reticulum III	273.8782	-45.6478	$274.2 \pm 7.5$	< 8.30	$-2.81\pm0.29$	$0.35^{+0.21}_{-0.09}$	$0.260^{+0.140}_{-0.144}$	$-0.502^{+0.222}_{-0.226}$	l,b
Sagittarius	5.5688	-14.1665	$140.0 \pm 2.0$	$11.40\pm0.70$	$-0.53^{+0.03}_{-0.02}$	$0.17 \pm 0.02$	$-2.692 \pm 0.001$	$-1.359 \pm 0.001$	ab,a
Sculptor	287.6961	-83.1524	$111.4 \pm 0.1$	$9.20\pm1.10$	$-1.73_{-0.02}^{+0.03}$	$0.44 \pm 0.02$	$0.100\pm0.002$	$-0.158 \pm 0.002$	$_{\rm b,i}$
Segue 1	220.4776	50.4090	$208.5 \pm 0.9$	$3.70^{+1.40}_{-1.10}$	-2.50		$-2.102 \pm 0.051$	$-3.375^{+0.044}_{-0.046}$	b,ad
Segue 2	149.4462	-38.1445	$-40.2 \pm 0.9$	< 2.60	$-2.22\pm0.13$	0.43	$1.446 \pm 0.059$	$-0.322^{+0.049}_{-0.050}$	ae,b
Sextans	243.4973	42.2736	$224.3 \pm 0.1$	$7.90 \pm 1.30$	$-1.97\pm0.04$	$0.38 \pm 0.03$	$-0.409^{+0.009}_{-0.008}$	$0.037\pm0.009$	$_{\rm b,i}$
Sextans II	245.3263	45.3223							
Triangulum II	140.9044	-23.8282	$-381.7\pm1.1$	< 4.20	$-2.24\pm0.05$	$0.53^{+0.38}_{-0.12}$	$0.575\pm0.060$	$0.112^{+0.069}_{-0.067}$	af,b
Tucana II	328.0863	-52.3248	$-124.7\pm1.0$	$3.80^{+1.10}_{-0.70}$	-2.77		$0.911^{+0.024}_{-0.026}$	$-1.280 \pm 0.029$	ag,b
Tucana III	315.4236	-56.1909	$-102.3\pm0.4$	< 1.50	$-2.42^{+0.07}_{-0.08}$		$-0.048^{+0.035}_{-0.036}$	$-1.638 \pm 0.039$	b,ah
Tucana IV	313.3093	-55.3089	$15.9^{+1.8}_{-1.7}$	$4.30^{+1.70}_{-1.00}$	$-2.49^{+0.15}_{-0.16}$		$0.534^{+0.050}_{-0.053}$	$-1.707^{+0.054}_{-0.055}$	$_{\rm b,q}$
Tucana V	316.3148	-51.8953	$-36.2^{+2.5}_{-2.2}$	< 7.40	$-2.17\pm0.23$		$-0.140^{+0.040}_{-0.050}$	$-1.180^{+0.050}_{-0.060}$	$_{z,q}$
Ursa Major I	159.3624	54.4268	$-55.3 \pm 1.4$	$7.00\pm1.00$	$-2.16^{+0.11}_{-0.13}$	$0.62^{+0.10}_{-0.08}$	$-0.401 \pm 0.036$	$-0.613^{+0.040}_{-0.042}$	$_{\rm b,h}$
Ursa Major II	152.4603	37.4410	$-116.5\pm1.9$	$6.70 \pm 1.40$	$-2.23^{+0.21}_{-0.24}$	$0.67^{+0.20}_{-0.15}$	$1.731\pm0.021$	$-1.906^{+0.024}_{-0.025}$	b,h
Ursa Minor	104.9817	44.8126	$-247.0\pm0.4$	$8.60 \pm 0.30$	$-2.13\pm0.02$	$0.35 \pm 0.01$	$-0.120 \pm 0.005$	$0.071\pm0.005$	b,ai
Virgo I	276.9419	59.5777							

Table 3 continued on next page

Table 3 (continued)

Name	l deg	b deg	$v_{\rm los}$ km s <sup>-1</sup>	$\sigma_{ m los}$ km s <sup>-1</sup>	[Fe/H]	$\sigma_{ m [Fe/H]}$	$\mu_{\alpha\star}$ mas yr <sup>-1</sup>	$\mu_{\delta}$ mas yr <sup>-1</sup>	Ref
Virgo II	4.0665	52.7543							
Virgo III	286.4759	66.4770							
Willman 1	158.5729	56.7833	$-14.1\pm1.0$	$4.00\pm0.80$	$-2.19\pm0.08$		$0.255^{+0.077}_{-0.087}$	$-1.110^{+0.095}_{-0.091}$	$_{\rm b,aj}$

NOTE— Citations: (a) Ji et al. (2021) (b) Pace et al. (2022) (c) Bruce et al. (2023) (d) Koposov et al. (2011) (e) Carlin et al. (2009) (f) Cerny et al. (2023a) (g) Smith et al. (2023) (h) Simon & Geha (2007) (i) Walker et al. (2009) (j) Li et al. (2018) (k) Heiger et al. (2023) (l) Fritz et al. (2019) (m) Walker et al. (2015b) (n) Li et al. (2017) (o) Cerny et al. (2021a) (p) Chiti et al. (2022) (q) Simon et al. (2020) (r) Koposov et al. (2015b) (s) Kirby et al. (2015) (t) Koposov et al. (2018) (u) Mateo et al. (2008) (v) Spencer et al. (2017) (w) Jenkins et al. (2021) (x) Kim et al. (2016b) (y) Cerny et al. (2023b) (z) Battaglia et al. (2022) (aa) Walker et al. (2015a) (ab) Gaia Collaboration et al. (2018) (ac) McConnachie (2012) (ad) Simon et al. (2011) (ae) Kirby et al. (2013) (af) Kirby et al. (2017a) (ag) Chiti et al. (2023) (ah) Simon et al. (2017) (ai) Spencer et al. (2018) (aj) Willman et al. (2011)

 Table 4. Properties of ultra-faint star clusters

N	Other Name	RA	DEC	Original Publication	Candidate?	Classification
Name	Other Name			Original Publication	Candidate:	Classification
		deg	deg			
Koposov 1		11:59:18.1	+12:15:41.4	Koposov et al. (2007)		Star Cluster
Koposov 2		07:58:17.2	+26:15:26.6	Koposov et al. (2007)		Star Cluster
Segue 3		21:21:31.0	+19:07:03.7	Belokurov et al. (2010)		Star Cluster
Munoz 1		15:01:47.8	+66:58:05.5	Muñoz et al. (2012)		
Balbinot 1		22:10:43.0	+14:56:25.1	Balbinot et al. (2013)		Star Cluster
Kim 1		22:11:41.1	+07:01:37.6	Kim & Jerjen (2015b)	Cand.	
Laevens 1	Crater I	11:36:16.0	-10:52:37.9	Belokurov et al. (2014)		Star Cluster
	PSO J174.0675-10.8774			Laevens et al. (2014)		
	Crater 1					
DES 1		00:33:59.8	-49:02:19.0	Luque et al. (2016)		Star Cluster
Draco II	Laevens 5	15:52:47.6	+64:33:55.0	Laevens et al. (2015b)		
Eridanus III	DES J0222.7-5217	02:22:46.8	-52:17:01.7	Bechtol et al. (2015)		
				Koposov et al. (2015a)		
Kim 2	Indus I	21:08:48.5	-51:10:01.6	Kim et al. (2015b)		Star Cluster
	Indus 1			Bechtol et al. (2015)		
	DES J2108.8-5109			Koposov et al. (2015a)		
Laevens 3		21:06:55.1	+14:59:03.8	Laevens et al. (2015b)		Star Cluster
Sagittarius II	Laevens 4	19:52:40.5	-22:04:05.0	Laevens et al. (2015b)		Star Cluster
Kim 3		13:22:45.1	-30:36:00.0	Kim et al. (2016a)	Cand.	
SMASH 1		06:21:00.0	-80:23:47.8	Martin et al. (2016a)	Cand.	
DES 3		21:40:13.2	-52:32:30.5	Luque et al. (2018)	Cand.	
DES 4		05:28:22.8	-61:43:25.3	Torrealba et al. (2019a)	Cand.	
DES 5		05:10:00.8	-62:34:49.7	Torrealba et al. (2019a)	Cand.	
Gaia 3		06:20:14.1	-73:24:52.0	Torrealba et al. (2019a)	Cand.	
PS1 1	Prestgard 64	19:16:41.1	-27:49:38.0	Torrealba et al. (2019a)	Cand.	
To 1		03:44:19.8	-69:25:21.2	Torrealba et al. (2019a)	Cand.	
BLISS 1	BLISS J0321+0438	11:50:02.4	-41:46:19.2	Mau et al. (2019)		

Table 4 continued on next page

Table 4 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	$\deg$			
HSC 1	HSC J2217+0328	22:17:14.2	+03:28:48.0	Homma et al. (2019)	Cand.	
DELVE 1		16:30:54.0	-00:58:19.2	Mau et al. (2020)		
				Drlica-Wagner et al. (2020)		
DELVE $2$	DELVE J0155-6815	01:55:05.3	-68:15:10.8	Cerny et al. (2021b)		
YMCA-1		07:23:21.1	-64:49:54.8	Gatto et al. (2021)		
DELVE 3	DELVE J1921-6047	19:21:35.0	-60:47:02.4	Cerny et al. (2023a)		
DELVE 4	DELVE J1523 $+2723$	15:23:06.0	+27:23:42.0	Cerny et al. (2023a)		
DELVE $5$	DELVE J1448+1728	14:48:25.0	+17:28:04.8	Cerny et al. (2023a)		
DELVE 6		02:12:16.8	-66:03:21.6	Cerny et al. (2023c)	Cand.	

 Table 5. Properties of ultra-faint star clusters

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
BLISS 1	177.5100	-41.7720	$0.60^{+0.19}_{-0.14}$	0.06	$101.0^{+74.0}_{-56.0}$	$4.1^{+1.1}_{-1.2}$	$16.87^{+0.20}_{-0.13}$	$23.7^{+2.3}_{-1.4}$	16.9	$0.0^{+1.7}_{-0.7}$	a
Balbinot 1	332.6791	14.9403	$0.60^{+0.16}_{-0.11}$			$5.6 \pm 1.3$	$17.52^{+0.07}_{-0.11}$	$31.9^{+1.0}_{-1.6}$	16.3	$-1.2\pm0.7$	b
DELVE 1	247.7250	-0.9720	$0.97^{+0.27}_{-0.19}$	$0.20^{+0.10}_{-0.20}$	$21.0^{+26.0}_{-30.0}$	$4.6^{+1.3}_{-1.2}$	$16.39\pm0.12$	$19.0^{+1.1}_{-1.0}$	16.2	$-0.2^{+0.8}_{-0.6}$	$\mathbf{c}$
DELVE 2	28.7720	-68.2530	$1.04_{-0.15}^{+0.19}$	$0.03^{+0.15}_{-0.03}$	$74.0^{+84.0}_{-40.0}$	$20.4 \pm 3.5$	$19.26\pm0.10$	$71.1_{-3.2}^{+3.4}$	17.2	$-2.1^{+0.4}_{-0.5}$	d
DELVE 3	290.3960	-60.7840	$0.40^{+0.12}_{-0.08}$	< 0.40	$87.0^{+30.0}_{-35.0}$	$6.5^{+1.7}_{-1.8}$	$18.73^{+0.09}_{-0.23}$	$55.7^{+2.4}_{-5.6}$	17.4	$-1.3^{+0.4}_{-0.6}$	e
DELVE 4	230.7750	27.3950	$0.49^{+0.16}_{-0.12}$	$0.40 \pm 0.20$	$152.0^{+14.0}_{-17.0}$	$4.9\pm1.7$	$18.28\pm0.19$	$45.3^{+4.1}_{-3.8}$	18.1	$-0.2^{+0.5}_{-0.8}$	e
DELVE 5	222.1040	17.4680	$0.68^{+0.24}_{-0.17}$	$0.60^{+0.10}_{-0.20}$	$77.0^{+10.0}_{-11.0}$	$4.6^{+2.0}_{-1.5}$	$17.97 \pm 0.17$	$39.3^{+3.2}_{-3.0}$	18.4	$0.4^{+0.4}_{-0.9}$	e
DELVE 6	33.0700	-66.0560	$0.43^{+0.18}_{-0.12}$	< 0.56	$14.0^{+40.0}_{-63.0}$	$10.0^{+3.4}_{-3.8}$	$19.51^{+0.11}_{-0.16}$	$79.8^{+4.1}_{-5.7}$	18.0	$-1.5^{+0.4}_{-0.6}$	$\mathbf{f}$
DES 1	8.4992	-49.0386	$0.24^{+0.04}_{-0.03}$	$0.41^{+0.03}_{-0.06}$	$112.0 \pm 3.0$	$4.1 \pm 0.6$	$19.40\pm0.12$	$75.9^{+4.3}_{-4.1}$	18.0	$-1.4\pm0.5$	g
DES 3	325.0552	-52.5418	$0.30^{+0.05}_{-0.04}$	$0.18^{+0.14}_{-0.12}$	$-11.6^{+30.8}_{-32.2}$	$6.0^{+1.1}_{-1.0}$	$19.41^{+0.08}_{-0.11}$	$76.2^{+2.9}_{-3.8}$	17.8	$-1.6^{+0.5}_{-0.3}$	h
DES 4	82.0950	-61.7237	0.83			2.4	17.50	31.6	16.4	-1.1	i
DES 5	77.5035	-62.5805	0.18			0.4	17.00	25.1	17.3	0.3	i
Draco II	238.1983	64.5653	$3.00^{+0.70}_{-0.50}$	$0.23 \pm 0.15$	$76.0^{+22.0}_{-32.0}$	$16.1^{+3.6}_{-3.2}$	$16.67\pm0.05$	$21.6 \pm 0.5$	15.9	$-0.8^{+0.4}_{-1.0}$	j
Eridanus III	35.6952	-52.2838	$0.32^{+0.04}_{-0.03}$	$0.44^{+0.02}_{-0.03}$	$109.0 \pm 5.0$	$6.2^{+0.7}_{-0.6}$	$19.80 \pm 0.04$	$91.2 \pm 1.7$	17.7	$-2.1\pm0.5$	g
Gaia 3	95.0586	-73.4145	0.53			2.3	18.40	47.9	15.1	-3.3	i
HSC 1	334.3090	3.4800	$0.44^{+0.07}_{-0.06}$	$0.46^{+0.08}_{-0.10}$	$-12.0\pm11.0$	$4.2^{+0.9}_{-0.8}$	$18.30 \pm 0.20$	$45.7^{+4.4}_{-4.0}$	18.1	$-0.2^{+0.6}_{-0.8}$	k
Kim 1	332.9214	7.0271	$1.20\pm0.10$	$0.42 \pm 0.10$	$-59.0 \pm 6.0$	$5.2 \pm 0.7$	$16.48^{+0.20}_{-0.10}$	$19.8^{+1.9}_{-0.9}$	16.8	$0.3\pm0.5$	1
Kim 2	317.2020	-51.1671	$0.42 \pm 0.02$	$0.12 \pm 0.10$	$35.0 \pm 5.0$	$11.9^{+1.0}_{-0.9}$	$20.10 \pm 0.10$	$104.7^{+4.9}_{-4.7}$	18.6	$-1.5\pm0.5$	$\mathbf{m}$
Kim 3	200.6880	-30.6000	$0.52^{+0.24}_{-0.11}$	$0.17^{+0.26}_{-0.17}$	$4.0 \pm 24.0$	$2.0 \pm 0.7$	$15.90^{+0.11}_{-0.04}$	$15.1^{+0.8}_{-0.3}$	16.6	$0.7 \pm 0.3$	$\mathbf{n}$
Koposov 1	179.8253	12.2615	$0.62 \pm 0.18$	$0.45 \pm 0.15$	$7.0 \pm 21.0$	$6.2^{+2.1}_{-1.9}$	18.42	48.3	17.4	$-1.0\pm0.7$	O
Koposov 2	119.5715	26.2574	$0.44 \pm 0.07$	$0.43 \pm 0.14$	$-35.0\pm18.0$	$3.3 \pm 0.7$	17.70	34.7	16.8	$-0.9\pm0.8$	O
Laevens 1	174.0668	-10.8772	$0.46 \pm 0.01$			$19.5 \pm 0.6$	$20.82\pm0.04$	$145.9 \pm 3.0$	15.5	$-5.3\pm0.1$	p
Laevens 3	316.7294	14.9844	$0.64 \pm 0.05$	$0.11^{+0.09}_{-0.11}$	$72.0^{+24.0}_{-17.0}$	$10.6\pm1.0$	$18.94^{+0.05}_{-0.02}$	$61.4^{+1.4}_{-0.6}$	16.1	$-2.8^{+0.2}_{-0.3}$	$\mathbf{q}$
Munoz 1	225.4490	66.9682	$0.49 \pm 0.15$	$0.34 \pm 0.17$	$139.0 \pm 46.0$	$5.0\pm1.8$	$18.27^{+0.23}_{-0.26}$	$45.1^{+5.0}_{-5.1}$	17.9	$-0.4\pm1.0$	$_{\rm r,o}$
PS1 1	289.1712	-27.8272	0.55			1.5	17.40	30.2	15.5	-1.9	i
SMASH 1	95.2496	-80.3966	$0.57^{+0.32}_{-0.18}$	$0.62^{+0.17}_{-0.21}$	$-24.0\pm16.0$	$5.4^{+3.2}_{-2.7}$	18.80	57.5	17.8	$-1.0\pm0.9$	$\mathbf{s}$
Sagittarius II	298.1687	-22.0681	$1.60 \pm 0.10$	< 0.10		$32.1_{-3.2}^{+3.4}$	$19.20\pm0.20$	$69.2^{+6.7}_{-6.1}$	14.0	$-5.2 \pm 0.1$	t

Table 5 continued on next page

Table 5 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	heta	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	deg	deg	arcmin			pc		kpc			
Segue 3	320.3793	19.1177	$0.43 \pm 0.08$	$0.23 \pm 0.11$	$33.0 \pm 36.0$	$1.8 \pm 0.4$	$16.14 \pm 0.09$	$16.9 \pm 0.7$	16.1	$-0.1^{+0.1}_{-0.8}$	u
To 1	56.0825	-69.4226	0.27			1.1	18.20	43.7	16.6	-1.6	i
YMCA-1	110.8378	-64.8319	$0.22 \pm 0.03$			$3.5^{+0.6}_{-0.5}$	$18.72^{+0.15}_{-0.17}$	$55.5^{+4.0}_{-4.2}$	18.2	$-0.5 \pm 0.6$	$\mathbf{v}$

NOTE— Citations: (a) Mau et al. (2019) (b) Balbinot et al. (2013) (c) Mau et al. (2020) (d) Cerny et al. (2021b) (e) Cerny et al. (2023a) (f) Cerny et al. (2023c) (g) Conn et al. (2018) (h) Luque et al. (2018) (i) Torrealba et al. (2019a) (j) Longeard et al. (2018) (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) Weisz et al. (2016) (q) Longeard et al. (2019) (r) Muñoz et al. (2012) (s) Martin et al. (2016a) (t) Mutlu-Pakdil et al. (2018) (u) Fadely et al. (2011) (v) Gatto et al. (2022)

 Table 6. Properties of ultra-faint star clusters

Name	l	b	$v_{ m los}$	$\sigma_{ m los}$	[Fe/H]	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			$\mathrm{mas}\ \mathrm{yr}^{-1}$	$\mathrm{mas}\ \mathrm{yr}^{-1}$	
BLISS 1	290.8313	19.6526					$-2.340 \pm 0.042$	$0.138 \pm 0.038$	a
Balbinot 1	75.1723	-32.6443							
DELVE 1	14.1876	30.2900					$0.040\pm0.070$	$-1.540 \pm 0.050$	b
DELVE 2	294.2362	-47.7863					$0.920^{+0.120}_{-0.110}$	$-0.970^{+0.090}_{-0.080}$	b
DELVE 3	335.8458	-27.0619					$-0.330^{+0.310}_{-0.340}$	$-0.800^{+0.350}_{-0.320}$	$\mathbf{c}$
DELVE 4	42.3105	56.4285					$0.420^{+0.080}_{-0.090}$	$-0.750 \pm 0.110$	$\mathbf{c}$
DELVE 5	19.3752	61.3561					$-1.820^{+0.130}_{-0.120}$	$-0.930 \pm 0.120$	$\mathbf{c}$
DELVE 6	290.5702	-49.0866					$0.930\pm0.390$	$-1.280 \pm 0.380$	d
DES 1	310.5222	-67.8318							
DES 3	343.8295	-46.5116							
DES 4	270.8713	-33.4387							
DES 5	272.2040	-35.4695							
Draco II	98.2942	42.8800	$-342.5^{+1.1}_{-1.2}$	< 5.90	$-2.70\pm0.10$		$1.027^{+0.067}_{-0.065}$	$0.887\pm0.072$	$_{\rm e,f}$
Eridanus III	274.9547	-59.5966					$1.390\pm0.130$	$-0.640 \pm 0.140$	b
Gaia 3	284.2274	-28.1313							
HSC 1	66.3192	-41.8407							
Kim 1	68.5158	-38.4241							
Kim 2	347.1549	-42.0693							
Kim 3	310.8601	31.7892					$-0.849 \pm 0.178$	$3.396 \pm 0.140$	a
Koposov 1	260.9699	70.7551					$-1.513 \pm 0.135$	$-0.814 \pm 0.105$	a
Koposov 2	195.1097	25.5468					$-0.601 \pm 0.189$	$-0.025 \pm 0.189$	a
Laevens 1	274.8070	47.8474	$148.2 \pm 1.1$	$2.04^{+2.19}_{-1.06}$	-1.68	< 0.53	$-0.040 \pm 0.120$	$0.120\pm0.100$	$_{\rm b,g}$
Laevens 3	63.5981	-21.1761	$-70.2\pm0.5$		$-1.80 \pm 0.10$		$0.172\pm0.101$	$-0.666 \pm 0.080$	$_{\rm h,a}$
Munoz 1	105.4414	45.4806	$-137.0\pm4.0$	< 4.70	$-1.46\pm0.32$		$-0.100 \pm 0.203$	$-0.020 \pm 0.207$	$_{i,a}$
PS1 1	10.0421	-17.4207							
SMASH 1	292.1393	-27.9860							
Sagittarius II	18.9355	-22.8975	$-177.2^{+0.5}_{-0.6}$	$1.70 \pm 0.50$	$-2.23\pm0.07$		$-0.769 \pm 0.035$	$-0.903^{+0.022}_{-0.023}$	j,f

Table 6 continued on next page

Table 6 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	[Fe/H]	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	$\rm km\ s^{-1}$	$\rm km\ s^{-1}$			${ m mas~yr^{-1}}$	${ m mas~yr^{-1}}$	
Segue 3	69.3997	-21.2723	-167.0	$1.20 \pm 2.60$			$-0.981 \pm 0.121$	$-1.667 \pm 0.081$	k,a
To 1	284.3606	-40.9069							
YMCA-1	276.0948	-21.1101					$1.044 \pm 0.402$	$1.107 \pm 0.209$	1

Note—Citations: (a) Vasiliev & Baumgardt (2021) (b) Battaglia et al. (2022) (c) Cerny et al. (2023a) (d) Cerny et al. (2023c) (e) Longeard et al. (2018) (f) Pace et al. (2022) (g) Voggel et al. (2016) (h) Longeard et al. (2019) (i) Muñoz et al. (2012) (j) Longeard et al. (2021) (k) Fadely et al. (2011) (l) Piatti & Lucchini (2022)

Table 7. Properties of M31 dwarf galaxies

Name	Other Name	RA	DEC	Original Publication Can	didate?	Classification
		$\deg$	deg			
M32	UGC 452	00:42:41.8	+40:51:54.4			Dwarf Galaxy
	NGC 221					
	PGC002555					
NGC 185	UGC 396	00:38:58.0	+48:20:10.0	Herschel (1789)		Dwarf Galaxy
NGC 205	M110	00:40:22.5	+41:41:11.0			Dwarf Galaxy
	UGC 426					
NGC 147	UGC 326	00:33:11.6	+48:30:28.0	Herschel (1833)		Dwarf Galaxy
	DDO 3					
	PGC 2004					
	LEDA 2004					
	Caldwell 17					
IC 10	UGC 192	00:20:24.5	+59:17:30.0	Swift (1888)		Dwarf Galaxy
	$2 {\rm MASX~J00201733}{+}5918136$					
	MCG +10-01-001					
	PGC001305					
Andromeda I		00:45:39.7	+38:02:15.0	van den Bergh (1972)		Dwarf Galaxy
Andromeda II		00:35:30.9	+36:29:56.0	van den Bergh (1972)		Dwarf Galaxy
Andromeda II		01:16:26.8	+33:26:07.0	van den Bergh (1972)		Dwarf Galaxy
LGS 3	Local Group Suspect 3	01:03:55.0	+21.53:06.0	Karachentseva (1976)		Dwarf Galaxy
	Pisces			Kowal et al. (1978)		
	Pisces I					
Andromeda V		01:10:17.5	+47:37:42.0	Armandroff et al. (1998)		Dwarf Galaxy
Andromeda VI	Pegasus dSph	23:51:46.9	+24:34:57.0	Karachentseva & Karachentseva (1999)		Dwarf Galaxy
Andromeda VII	Casseopia dSph	23:26:33.5	+50:40:48.0	Karachentseva & Karachentseva (1999)		Dwarf Galaxy
	Cassiopeia					
Andromeda IX		00:52:53.4	+43:11:57.0	Zucker et al. (2004)		Dwarf Galaxy
Andromeda X		01:06:35.4	+44:48:27.0	Zucker et al. (2007)		Dwarf Galaxy

Table 7 continued on next page

Table 7 (continued)

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

Table 8. Properties of M31 dwarf galaxies

Name	RA	DEC	$r_h$	$\epsilon$	heta	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
Andromeda I	11.4154	38.0375	$3.90 \pm 0.10$	$0.28 \pm 0.03$	$30.0 \pm 4.0$	$747.8 \pm 29.7$	$24.45 \pm 0.05$	$776.2^{+18.1}_{-17.7}$	13.1	$-11.3 \pm 0.2$	a,b
Andromeda II	8.8788	36.4989	$2.00\pm0.20$	$0.59 \pm 0.04$	$140.0 \pm 3.0$	$266.7^{+30.2}_{-30.9}$	$24.29 \pm 0.05$	$721.1^{+16.8}_{-16.4}$	14.8	$-9.5^{+0.3}_{-0.2}$	$_{\mathrm{a,b}}$
Andromeda II	19.1117	33.4353	$5.30 \pm 0.10$	$0.16 \pm 0.02$	$31.0 \pm 5.0$	$941.3^{+30.8}_{-27.7}$	$24.12 \pm 0.05$	$666.8^{+15.5}_{-15.2}$	12.4	$-11.7\pm0.2$	$_{\mathrm{a,b}}$
Andromeda IX	13.2225	43.1992	$2.00^{+0.30}_{-0.20}$	$0.00^{+0.16}_{-0.00}$	$41.0 \pm 65.0$	$391.3^{+52.7}_{-55.4}$	$24.23 \pm 0.06$	$701.5^{+19.7}_{-19.1}$	15.6	$-8.6 \pm 0.3$	$_{\mathrm{a,b}}$
${\bf Andromeda~V}$	17.5729	47.6283	$1.60^{+0.20}_{-0.10}$	$0.26^{+0.09}_{-0.07}$	$54.0 \pm 10.0$	$300.9^{+32.1}_{-33.1}$	$24.40 \pm 0.06$	$758.6^{+21.3}_{-20.7}$	15.1	$-9.3 \pm 0.2$	$_{\mathrm{a,b}}$
Andromeda VI	357.9454	24.5825	$2.15 \pm 0.08$	$0.41 \pm 0.03$	$163.0 \pm 3.0$	$398.2^{+23.3}_{-20.8}$	$24.60 \pm 0.06$	$831.8^{+23.3}_{-22.7}$	13.3	$-11.3\pm0.2$	$_{\mathrm{c,b}}$
Andromeda VII	351.6396	50.6800	$3.47 \pm 0.07$	$0.13 \pm 0.04$	$94.0 \pm 8.0$	$777.5^{+31.3}_{-32.1}$	$24.58 \pm 0.06$	$824.1^{+23.1}_{-22.5}$	11.8	$-12.8\pm0.3$	$_{\rm c,b}$
Andromeda X	16.6475	44.8075	$1.10^{+0.40}_{-0.20}$	$0.10^{+0.34}_{-0.10}$	$30.0^{+20.0}_{-12.0}$	$174.6^{+56.9}_{-46.4}$	$24.00\pm0.06$	$631.0^{+17.7}_{-17.2}$	16.7	$-7.3 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XI	11.5821	33.8028	$0.60 \pm 0.20$	$0.19^{+0.28}_{-0.19}$	$54.0 \pm 30.0$	$110.5^{+43.0}_{-39.4}$	$24.38 \pm 0.07$	$751.6^{+24.6}_{-23.8}$	18.0	$-6.4 \pm 0.4$	$_{\mathrm{a,b}}$
Andromeda XII	11.8679	34.3772	$1.80^{+1.20}_{-0.70}$	$0.61^{+0.16}_{-0.48}$	$16.0^{+12.0}_{-36.0}$	$229.3_{-143.8}^{+179.1}$	$24.28^{+0.08}_{-0.07}$	$717.8^{+26.9}_{-22.8}$	17.7	$-6.6 \pm 0.5$	$_{\mathrm{a,b}}$
Andromeda XIII	12.9625	33.0044	$0.80^{+0.40}_{-0.30}$	$0.61^{+0.14}_{-0.20}$	$-20.0^{+9.0}_{-12.0}$	$110.1^{+64.7}_{-57.1}$	$24.57 \pm 0.07$	$820.4^{+26.9}_{-26.0}$	17.8	$-6.8 \pm 0.4$	$_{\mathrm{a,b}}$
Andromeda XIV	12.8958	29.6897	$1.50 \pm 0.20$	$0.17^{+0.16}_{-0.17}$	$-4.0 \pm 14.0$	$297.6^{+49.4}_{-48.3}$	$24.44 \pm 0.06$	$772.7^{+21.6}_{-21.1}$	15.8	$-8.6 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XIX	4.8937	35.0447	$14.20^{+3.40}_{-1.90}$	$0.58^{+0.05}_{-0.10}$	$34.0 \pm 5.0$	$2144.7^{+484.5}_{-410.3}$	$24.55^{+0.09}_{-0.08}$	$812.8^{+34.4}_{-29.4}$	14.5	$-10.1\pm0.3$	$_{\mathrm{a,b}}$
Andromeda XV	18.5763	38.1197	$1.30 \pm 0.10$	$0.24 \pm 0.10$	$38.0 \pm 15.0$	$244.8^{+26.9}_{-26.5}$	$24.37 \pm 0.05$	$748.2^{+17.4}_{-17.0}$	16.0	$-8.4 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XVI	14.8763	32.3761	$1.00\pm0.10$	$0.29 \pm 0.08$	$98.0 \pm 9.0$	$126.9^{+13.6}_{-15.1}$	$23.57 \pm 0.08$	$517.6^{+19.4}_{-18.7}$	16.1	$-7.5 \pm 0.3$	$_{\mathrm{a,d}}$
Andromeda XVII	9.2762	44.3231	$1.40 \pm 0.30$	$0.50 \pm 0.10$	$110.0 \pm 9.0$	$212.6^{+54.5}_{-49.3}$	$24.40 \pm 0.07$	$758.6^{+24.9}_{-24.1}$	16.6	$-7.8 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XVIII	0.5603	45.0877	$0.92 \pm 0.05$	$0.44 \pm 0.12$	$75.1 \pm 4.5$	$234.6^{+30.7}_{-28.9}$	$25.36 \pm 0.08$	$1180.3_{-42.7}^{+44.3}$	16.2	$-9.2 \pm 0.4$	$_{\mathrm{e,a}}$
Andromeda XX	1.8775	35.1269	$0.40^{+0.20}_{-0.10}$	$0.11^{+0.41}_{-0.11}$	$90.0^{+20.0}_{-44.0}$	$72.6^{+31.0}_{-29.1}$	$24.35 \pm 0.08$	$741.3^{+27.8}_{-26.8}$	18.0	$-6.4 \pm 0.4$	$_{\mathrm{a,b}}$
Andromeda XXI	358.6996	42.4706	$4.10^{+0.80}_{-0.40}$	$0.36^{+0.10}_{-0.13}$	$139.0\pm13.0$	$732.5^{+138.2}_{-127.6}$	$24.44^{+0.06}_{-0.07}$	$772.7^{+21.6}_{-24.5}$	15.5	$-8.9 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XXII	21.9183	28.0903	$0.90^{+0.30}_{-0.20}$	$0.61^{+0.10}_{-0.14}$	$114.0\pm10.0$	$119.7^{+41.7}_{-36.9}$	$24.39 \pm 0.07$	$755.1_{-24.0}^{+24.7}$	18.0	$-6.4 \pm 0.4$	$_{\mathrm{a,b}}$
Andromeda XXIII	22.3375	38.7239	$5.40 \pm 0.40$	$0.41^{+0.05}_{-0.06}$	$138.0 \pm 5.0$	$895.0^{+88.5}_{-78.3}$	$24.36 \pm 0.07$	$744.7^{+24.4}_{-23.6}$	14.6	$-9.8 \pm 0.2$	$_{\mathrm{a,b}}$
Andromeda XXIV	19.6363	46.3703	$2.60^{+1.00}_{-0.50}$	$0.10^{+0.31}_{-0.10}$	$90.0 \pm 34.0$	$404.8^{+123.7}_{-126.0}$	$23.92 \pm 0.07$	$608.1^{+19.9}_{-19.3}$	16.3	$-7.6 \pm 0.3$	$_{\mathrm{a,b}}$
Andromeda XXIX	359.7317	30.7556	$1.39 \pm 0.08$	$0.29 \pm 0.04$	$55.0 \pm 4.0$	$243.8^{+16.2}_{-16.4}$	$24.26 \pm 0.06$	$711.2^{+19.9}_{-19.4}$	16.1	$-8.2\pm0.3$	$_{\rm b,f}$
${\bf Andromeda~XXV}$	7.5412	46.8614	$2.70^{+0.40}_{-0.20}$	$0.03^{+0.16}_{-0.03}$	$-16.0\pm30.0$	$562.3^{+74.3}_{-70.2}$	$24.38^{+0.07}_{-0.06}$	$751.6^{+24.6}_{-20.5}$	15.3	$-9.1^{+0.3}_{-0.2}$	$_{\mathrm{a,b}}$
Andromeda XXVI	5.9429	47.9119	$1.00^{+0.60}_{-0.50}$	$0.35^{+0.33}_{-0.35}$	$50.0 \pm 90.0$	$162.5^{+103.6}_{-98.7}$	$24.48^{+0.06}_{-0.07}$	$787.0^{+22.1}_{-25.0}$	18.5	$-6.0^{+0.7}_{-0.5}$	$_{\mathrm{a,b}}$
Andromeda XXVII	9.3629	45.3869	$1.80 \pm 0.30$	$0.40 \pm 0.20$	$150.0\pm10.0$	$326.5^{+82.2}_{-81.1}$	$24.59 \pm 0.12$	$827.9_{-44.5}^{+47.0}$	16.7	$-7.9 \pm 0.5$	g
Andromeda XXVIII	338.1717	31.2149	$1.38 \pm 0.06$	$0.42 \pm 0.06$	$35.0\pm1.0$	$227.5^{+17.0}_{-15.9}$	$24.36 \pm 0.05$	$744.7^{+17.3}_{-17.0}$	15.8	$-8.5 \pm 0.4$	$_{\mathrm{e,b,f}}$

Table 8 continued on next page

Table 8 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	heta	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
Cassiopeia II	9.1442	49.6469	$1.50 \pm 0.20$	$0.43^{+0.10}_{-0.12}$	$110.0 \pm 9.0$	$182.4^{+32.2}_{-30.3}$	$23.74 \pm 0.06$	$559.8^{+15.7}_{-15.3}$	16.0	$-7.7^{+0.3}_{-0.2}$	a,b
Cassiopeia III	8.9893	51.5601	$4.73 \pm 0.09$	$0.30 \pm 0.01$	$91.0 \pm 2.0$	$922.4_{-34.8}^{+32.2}$	$24.52 \pm 0.06$	$801.7^{+22.5}_{-21.8}$	12.1	$-12.4\pm0.2$	$_{ m h,b}$
IC 10	5.1021	59.2917	2.65	$0.19 \pm 0.02$		169.8	$24.43 \pm 0.03$	$769.1^{+10.7}_{-10.6}$	9.5	$-14.9 \pm 0.2$	$_{i,j}$
LGS 3	15.9792	21.8850	$2.10 \pm 0.20$	0.20	0.0	$369.0^{+37.8}_{-32.5}$	$23.91 \pm 0.05$	$605.3^{+14.1}_{-13.8}$	14.3	$-9.6 \pm 0.1$	$_{\mathrm{i,b}}$
Lacerta I	344.5509	41.3062	$3.13 \pm 0.05$	$0.41 \pm 0.01$	$-64.0\pm1.0$	$519.6^{+16.3}_{-13.6}$	$24.36 \pm 0.05$	$744.7^{+17.3}_{-17.0}$	13.2	$-11.2 \pm 0.3$	$_{\rm h,b}$
M32	10.6741	40.8651	$0.47 \pm 0.05$	$0.25 \pm 0.02$	$159.0 \pm 2.0$	$91.4^{+9.8}_{-9.3}$	$24.44 \pm 0.06$	$772.7^{+21.6}_{-21.1}$	8.1	$-16.3\pm0.1$	$_{\mathrm{i,b}}$
NGC 147	8.2983	48.5078	3.17	$0.41 \pm 0.02$	$25.0 \pm 3.0$	165.6	$24.33 \pm 0.06$	$734.5^{+20.6}_{-20.0}$	9.5	$-14.8 \pm 0.1$	$_{\mathrm{i,b}}$
NGC 185	9.7417	48.3361	2.55	$0.15 \pm 0.10$	$35.0 \pm 3.0$	141.2	$24.06\pm0.06$	$648.6^{+18.2}_{-17.7}$	9.2	$-14.9 \pm 0.1$	$_{i,b}$
NGC 205	10.0938	41.6864	$2.46 \pm 0.10$	$0.43 \pm 0.10$	$28.0 \pm 5.0$	$447.8^{+47.1}_{-44.0}$	$24.61 \pm 0.06$	$835.6^{+23.4}_{-22.8}$	8.1	$-16.5\pm0.1$	$_{\mathrm{i,b}}$
Pegasus V	349.6158	33.3589	$0.40^{+0.20}_{-0.10}$	$0.01 \pm 0.01$	$96.0_{-57.0}^{+47.0}$	$78.4^{+33.6}_{-31.1}$	$24.20 \pm 0.10$	$691.8^{+30.9}_{-31.1}$	17.9	$-6.3 \pm 0.2$	k
Perseus I	45.3477	40.9848	$1.40^{+0.07}_{-0.06}$	$0.09 \pm 0.06$	$-58.0^{+25.0}_{-21.0}$	$272.4_{-16.7}^{+17.2}$	$24.24 \pm 0.06$	$704.7^{+19.7}_{-19.2}$	15.4	$-8.9 \pm 0.3$	$_{ m h,b}$
Pisces VII	20.4190	26.3910	$0.67^{+0.20}_{-0.10}$	< 0.10	$96.0^{+32.0}_{-36.0}$	$185.2^{+46.4}_{-42.0}$	$24.90 \pm 0.20$	$955.0^{+92.1}_{-84.0}$	19.2	$-5.7 \pm 0.3$	1

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) Slater et al. (2015) (g) Richardson et al. (2011) (h) Rhode et al. (2023) (i) McConnachie (2012) (j) McQuinn et al. (2017) (k) Collins et al. (2022) (l) Collins et al. (2023)

Table 9. Properties of M31 dwarf galaxies

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe/H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	deg	$\deg$	$\rm km\ s^{-1}$	$\rm km\ s^{-1}$		. , ,	${ m mas~yr}^{-1}$	$\mathrm{mas}\;\mathrm{yr}^{-1}$	
Andromeda I	121.6789	-24.8202	$-376.3 \pm 2.2$	$10.20 \pm 1.90$	$-1.51 \pm 0.02$	0.34			a
Andromeda II	119.3642	-26.2625	$-344.3 \pm 1.7$	$9.30 \pm 1.40$	$-1.75\pm0.03$	0.43			a
Andromeda II	128.9048	-29.1463	$-192.4\pm0.5$	$7.80 \pm 1.10$	$-1.47\pm0.01$				b
Andromeda IX	123.2130	-19.6718	$-209.4\pm2.5$	$10.90\pm2.00$	$-2.03\pm0.00$				a
Andromeda V	126.2205	-15.1230	$-397.3 \pm 1.5$	$10.50\pm1.10$	$-1.84 \pm 0.01$	0.41			a
Andromeda VI	106.0443	-36.3252	$-339.8 \pm 1.9$	$12.40^{+1.50}_{-1.30}$					$\mathbf{c}$
Andromeda VII	109.4665	-9.9593	$-307.2\pm1.3$	$13.00\pm1.00$	$-1.37\pm0.01$	0.36	$0.060 \pm 0.037$	$-0.004 \pm 0.034$	$_{\mathrm{a,d}}$
Andromeda X	125.7565	-17.9811	$-164.1\pm1.7$	$6.40 \pm 1.40$	$-2.27\pm0.03$	0.47			a
Andromeda XI	121.7176	-29.0569	$-427.5^{+3.4}_{-3.5}$	$7.60^{+4.00}_{-2.80}$					$\mathbf{c}$
Andromeda XII	122.0008	-28.4874	$-557.1\pm1.7$	< 4.00					$\mathbf{c}$
Andromeda XIII	123.0316	-29.8672	$-185.4\pm2.4$	$5.80 \pm 2.00$					$\mathbf{a}$
Andromeda XIV	122.9697	-33.1820	$-480.6\pm1.2$	$5.30 \pm 1.00$	$-2.23\pm0.01$				$\mathbf{a}$
Andromeda XIX	115.5917	-27.3725	$-109.0\pm1.6$	$7.80^{+1.70}_{-1.50}$	$-2.07\pm0.02$				e
Andromeda XV	127.8737	-24.5325	$-323.0\pm1.4$	$4.00\pm1.40$	$-1.43 \pm 0.42$				a
Andromeda XVI	124.9080	-30.4647	$-367.3 \pm 2.8$	$3.80 \pm 2.90$					$\mathbf{a}$
Andromeda XVII	120.2299	-18.4735	$-251.6^{+1.8}_{-2.0}$	$2.90^{+2.20}_{-1.90}$					$\mathbf{c}$
Andromeda XVIII	113.8876	-16.9183	$-332.1\pm2.7$	$9.70 \pm 2.30$	$-1.33 \pm 0.02$				a
Andromeda XX	112.8715	-26.8852	$-456.2^{+3.1}_{-3.6}$	$7.10^{+3.90}_{-2.50}$					$\mathbf{c}$
Andromeda XXI	111.9175	-19.1866	$-363.4 \pm 1.0$	$6.10^{+1.00}_{-0.90}$	$-1.70 \pm 0.10$				f
Andromeda XXII	132.5888	-34.1011	$-129.8 \pm 2.0$	$2.80^{+1.90}_{-1.40}$					$\mathbf{c}$
Andromeda XXIII	130.9882	-23.5541	$-237.7\pm1.2$	$7.10 \pm 1.00$					$\mathbf{c}$
Andromeda XXIV	127.7968	-16.2453	$-128.2 \pm 5.2$	< 7.30					$\mathbf{c}$
Andromeda XXIX	109.8016	-30.7738	$-194.4 \pm 1.5$	$5.70 \pm 1.20$	$-1.90 \pm 0.12$	$0.57 \pm 0.11$			g
Andromeda XXV	119.1544	-15.8543	$-107.7\pm1.0$	$3.70^{+1.20}_{-1.10}$	$-1.90 \pm 0.10$				h
Andromeda XXVI	118.1451	-14.7025	$-261.6^{+3.0}_{-2.8}$	$8.60^{+2.80}_{-2.20}$					$\mathbf{c}$
Andromeda XXVII	120.3590	-17.4149	$-539.6_{-4.5}^{+4.7}$	$14.80^{+4.30}_{-3.10}$					$\mathbf{c}$
Andromeda XXVIII	91.0305	-22.9264	$-331.1 \pm 1.8$	$4.90\pm1.60$	$-1.84 \pm 0.15$	$0.65 \pm 0.15$			g

Table 9 continued on next page

Table 9 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	$\rm km\ s^{-1}$			${\rm mas~yr^{-1}}$	${\rm mas~yr^{-1}}$	
Cassiopeia II	120.4624	-13.1535	$-139.8^{+36.0}_{-6.6}$	$11.80^{+7.70}_{-4.70}$					c
Cassiopeia III	120.4800	-11.2380	$-371.6\pm0.7$	$8.40 \pm 0.60$	$-1.70 \pm 0.10$				i
IC 10	118.9727	-3.3413	$-348.0\pm1.0$				$0.039 \pm 0.009$	$0.031 \pm 0.008$	$_{\rm j,k}$
LGS 3	126.7625	-40.8939	$-286.5\pm0.3$	$7.90^{+5.30}_{-2.90}$					k
Lacerta I	101.0962	-16.7150	$-198.4\pm1.1$	$10.30\pm0.90$	$-2.00\pm0.10$				i
M32	121.1499	-21.9764	$-199.0\pm6.0$	$92.00 \pm 5.00$					k
NGC 147	119.8159	-14.2536	$-193.1\pm0.8$	$16.00\pm1.00$			$0.023 \pm 0.014$	$0.038\pm0.015$	$_{\mathrm{k,l}}$
NGC 185	120.7919	-14.4838	$-203.8\pm1.1$	$24.00\pm1.00$			$0.024\pm0.014$	$0.006\pm0.015$	$_{\mathrm{k,l}}$
NGC 205	120.7178	-21.1378	$-246.0\pm1.0$	$35.00 \pm 5.00$					k
Pegasus V	101.4911	-25.6126							
Perseus I	147.8182	-15.5236	$-326.0 \pm 3.0$	$4.20^{+3.60}_{-4.20}$	$-2.00\pm0.20$				i
Pisces VII	131.3065	-35.9886							

NOTE— Citations: (a) Tollerud et al. (2012) (b) Ho et al. (2012) (c) Collins et al. (2013) (d) Warfield et al. (2023) (e) Collins et al. (2020) (f) Collins et al. (2021) (g) Tollerud et al. (2013) (h) Charles et al. (2023) (i) Martin et al. (2014) (j) Brunthaler et al. (2007) (k) McConnachie (2012) (l) Sohn et al. (2020)

Table 10. Properties of Local Group dwarf galaxies

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
AGC749235	PGC5059199	12:24:09.9	+26:13:52.0			Dwarf Galaxy
DDO 147	UGC07949	12:46:59.8	+36:28:35.0			Dwarf Galaxy
	PGC043129					
	KDG200					
	MCG +06-28-030					
DDO 44		07:34:11.5	+66:52:47.0			Dwarf Galaxy
ESO 274-001	PGC054392	15:14:13.5	-46:48:45.0			Dwarf Galaxy
	RFGC2937					
	HIPASS J1514-46					
KK 258	ESO468-020	22:40:43.9	-30:47:59.0			Dwarf Galaxy
	[KK98]258					
	PGC069468					
KKS53	PGC2815820	13:11:14.2	-38:54:22.0			Dwarf Galaxy
	[KK2000] 53					
	Cen7					
NGC 4190	PGC039023	12:13:44.6	+36:38:00.0			Dwarf Galaxy
	UGC07232					
	CGCG 187-024					
NGC 4214	NGC4228	12:15:39.2	+36:19:38.6			Dwarf Galaxy
	PGC039225					
	UGC07278					
	CGCG 187-032					
	MCG +06-27-042					
NGC 4163	UGC 7199	12:12:09.1	+36:10:09.0	Herschel (1789)		Dwarf Galaxy
	NGC 4167					
NGC 300		00:54:53.5	-37:41:04.0	Dunlop (1828)		Dwarf Galaxy
NGC 55		00:14:53.6	-39:11:48.0	Dunlop (1828)		Dwarf Galaxy

Table 10 continued on next page

Table 10 (continued)

Name	Other Name	RA	DEC	Original Publication Candidate	e? Classification
		deg	deg		
NGC 3109	DDO 236	10:03:06.9	-26:09:35.0	Herschel (1847)	Dwarf Galaxy
	UGCA 194				
NGC 6822	IC 4895	19:44:56.6	-14:47:21.0	Barnard (1884)	Dwarf Galaxy
	DDO 209				
	Barnard's Galaxy				
IC 5152		22:02:41.5	-51:17:47.0	Pickering & Stewart (1899)	Dwarf Galaxy
IC 4662	ESO 102-G014	17:47:08.8	-64:38:30.0	Lunt (1902)	Dwarf Galaxy
IC 1613	DDO 8	01:04:47.8	+02:07:04.0	Wolf (1906)	Dwarf Galaxy
	UGC 668				
IC 3104	ESO 020-G004	12:18:46.0	-79:43:34.0	Pickering (1908)	Dwarf Galaxy
	UKS 1215-794				
WLM	${\bf Wolf\text{-}Lundmark\text{-}Melotte}$	00:01:58.2	-15:27:39.0	Wolf (1909)	Dwarf Galaxy
	UGCA 444			Melotte (1926)	
	DDO 221				
	LEDA 143				
Leo A	Leo III	09:59:26.5	+30:44:47.0	Zwicky (1942)	Dwarf Galaxy
	UGC 5364				
	DDO 69				
	PGC 28868				
Sextans A	UGCA 205	10:11:00.8	-04:41:34.0	Zwicky (1942)	Dwarf Galaxy
	DDO 75				
GR 8	UGC 8091	12:58:40.4	+14:13:03.0	Reaves (1956)	Dwarf Galaxy
	VV 558				
	DDO 155				
Pegasus dIrr	UGC 12613	23:28:36.3	+14:44:35.0	Holmberg (1958)	Dwarf Galaxy
	DDO 216				
Sextans B	UGC 5373	10:00:00.1	+05:19:56.0	Holmberg (1958)	Dwarf Galaxy
	DDO 70				
Aquarius	DDO 210	20:46:51.8	-12:50:53.0	van den Bergh (1959)	Dwarf Galaxy
DDO 113	UGCA 276	12:14:57.9	+36:13:08.0	van den Bergh (1959)	Dwarf Galaxy

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
	KDG 90					
DDO 125	UGC 7577	12:27:40.9	+43:29:44.0	van den Bergh (1959)		Dwarf Galaxy
DDO 190	UGC 9240	14:24:43.4	+44:31:33.0	van den Bergh (1959)		Dwarf Galaxy
DDO 99	UGC 6817	11:50:53.0	+38:52:49.0	van den Bergh (1959)		Dwarf Galaxy
UGC 4879	VV 124	09:16:02.2	+52:50:24.0	Kopylov et al. (2008)		Dwarf Galaxy
				Vorontsov-Velyaminov (1959)		
UGC 9128	DDO 187	14:15:56.5	+23:03:19.0	van den Bergh (1959)		Dwarf Galaxy
	CGCG 133-019					
	MCG +04-34-009					
	PGC050961					
UGC~8508		13:30:44.4	+54:54:36.0	Vorontsov-Vel'Yaminov & Krasnogorskaya (1962)		Dwarf Galaxy
UGCA~86	VIIZw009	03:59:48.3	+67:08:19.0	Nilson (1974)		Dwarf Galaxy
Phoenix		01:51:06.0	-44:26:42.0	Schuster & West (1976)		Dwarf Galaxy
				Canterna & Flower (1977)		
Sagittarius dIrr	UKS 1927-177	19:29:59.0	-17:40:51.0	Cesarsky et al. (1977)		Dwarf Galaxy
				Longmore et al. (1978)		
UKS $2323-326$	UGCA 438	23:26:27.5	-32:23:20.0	Longmore et al. (1978)		Dwarf Galaxy
	ESO407-018					
	MCG - 05 - 55 - 012					
	PGC071431					
ESO 006-001		08:19:23.3	-85:08:44.0	Lauberts (1982)		Dwarf Galaxy
ESO 294-G010		00:26:33.4	-41:51:19.0	Lauberts (1982)		Dwarf Galaxy
ESO $410$ -G005	UKS 0013-324	00:15:31.6	-32:10:48.0	Lauberts (1982)		Dwarf Galaxy
KKS 3	KKs3	02:24:44.4	-73:30:51.0	Corwin et al. (1985)		Dwarf Galaxy
	[KK2000] 03			Karachentseva & Karachentsev (2000)		
	PGC009140			Whiting et al. (2002)		
Tucana		22:41:49.6	-64:25:10.0	Lavery & Mighell (1992)		Dwarf Galaxy
				Lavery (1990)		
				Corwin et al. (1985)		
Antlia		10:04:04.1	-27:19:52.0	Whiting et al. (1997)		Dwarf Galaxy

Table 10 continued on next page

Table 10 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		deg	deg			
KKR 25		16:13:48.0	+54:22:16.0	Karachentseva & Karachentsev (1998)		Dwarf Galaxy
				Karachentseva et al. (1999)		
				Karachentsev et al. (2001b)		
KKR 3	KK 230	14:07:10.5	+35:03:37.0	Karachentseva & Karachentsev (1998)		Dwarf Galaxy
	[KK98]230			Karachentseva et al. (1999)		
	PGC166185					
Cetus		00:26:11.0	-11:02:40.0	Whiting et al. (1999)		Dwarf Galaxy
HIZSS 3A		07:00:29.3	-04:12:30.0	Henning et al. (2000)	Cand.	
				Begum et al. (2005)		
HIZSS 3B		07:00:29.3	-04:12:30.0	Henning et al. (2000)	Cand.	
				Begum et al. (2005)		
KKH 86		13:54:33.5	+04:14:35.0	Karachentsev et al. (2001a)		Dwarf Galaxy
KKH 98		23:45:34.0	+38:43:04.0	Karachentsev et al. (2001a)		Dwarf Galaxy
Leo T		09:34:53.4	+17:03:05.0	Irwin et al. (2007)		Dwarf Galaxy
Leo P		10:21:45.1	+18:05:17.0	Giovanelli et al. (2013)		Dwarf Galaxy
Antlia B		09:48:56.1	-25:59:24.0	Sand et al. (2015)		Dwarf Galaxy
Tucana B		22:47:00.5	-58:24:27.0	Sand et al. (2022)		Dwarf Galaxy
Leo K		09:24:06.1	+16:30:38.1	McQuinn et al. (2023b)		Dwarf Galaxy
Leo M		11:05:21.2	+25:20:42.8	McQuinn et al. (2023b)		Dwarf Galaxy
NGC 55-dw1	DES J0015-3825	00:15:29.8	-38:25:08.4	McNanna et al. (2023)	Cand.	
Pavo		19:55:00.0	-61:04:20.5	Jones et al. (2023)		Dwarf Galaxy
Pegasus W		23:53:15.0	+22:06:07.1	McQuinn et al. (2023a)		Dwarf Galaxy

Table 11. Properties of Local Field dwarf galaxies

Name	RA	DEC	$r_h$	$\epsilon$	θ	$r_h$	$(m - M)_0$	d	V	$M_V$	Ref
	$\deg$	deg	arcmin			pc		kpc			
AGC749235	186.0412	26.2311	0.12	0.78		14.1	27.16	2704.0	19.5	-7.7	a
Antlia	151.0171	-27.3311	$1.20 \pm 0.12$	$0.40 \pm 0.04$	$135.0 \pm 5.0$	$360.3^{+43.4}_{-38.4}$	$25.65 \pm 0.10$	$1349.0^{+63.6}_{-60.7}$	15.2	$-10.4 \pm 0.2$	b
Antlia B	147.2337	-25.9900	$0.72 \pm 0.07$	$0.30 \pm 0.05$	$4.0\pm12.0$	$236.8^{+25.7}_{-26.5}$	$25.65 \pm 0.10$	$1349.0^{+63.6}_{-60.7}$	15.9	$-9.8 \pm 0.6$	$_{\rm c,d}$
Aquarius	311.7158	-12.8481	$1.63 \pm 0.08$	$0.53 \pm 0.05$	$96.6 \pm 1.4$	$319.6^{+28.0}_{-28.3}$	$24.97 \pm 0.09$	$986.3_{-40.0}^{+41.7}$	14.5	$-10.5 \pm 0.1$	$_{\mathrm{e,b}}$
Cetus	6.5458	-11.0444	$3.20 \pm 0.10$	$0.33 \pm 0.06$	$63.0 \pm 3.0$	$574.8^{+34.3}_{-37.1}$	$24.39 \pm 0.07$	$755.1_{-24.0}^{+24.7}$	13.2	$-11.2\pm0.2$	b
DDO 113	183.7413	36.2189	$0.70 \pm 0.07$	$0.00^{+0.09}_{-0.00}$		$593.2^{+66.9}_{-66.3}$	$27.35 \pm 0.06$	$2951.2^{+82.7}_{-80.4}$	16.4	$-11.0\pm0.3$	b
DDO 125	186.9204	43.4956	$1.04 \pm 0.10$	$0.41 \pm 0.01$	$-68.0 \pm 4.0$	$599.2^{+54.7}_{-59.0}$	$27.06 \pm 0.05$	$2582.3^{+60.1}_{-58.8}$	12.7	$-14.4 \pm 0.3$	b
DDO 147	191.7492	36.4764	1.45	0.21		350.6	$27.34 \pm 0.08$	$2937.6_{-106.3}^{+110.2}$	14.6	-12.8	$_{\rm f,a}$
DDO 190	216.1808	44.5258	$0.64 \pm 0.06$	$0.10 \pm 0.02$	$82.0 \pm 5.0$	$491.3^{+47.9}_{-42.5}$	$27.23 \pm 0.03$	$2792.5^{+38.8}_{-38.3}$	12.8	$-14.4 \pm 0.1$	b
DDO 44	113.5479	66.8797	$0.74 \pm 0.02$	0.60		$637.5^{+28.4}_{-25.2}$	$27.36 \pm 0.07$	$2964.8^{+97.1}_{-94.1}$	14.5	-12.9	g
DDO 99	177.7208	38.8803	$0.90 \pm 0.09$	$0.29 \pm 0.01$	$70.0 \pm 4.0$	$564.8^{+69.7}_{-63.5}$	$27.07 \pm 0.14$	$2594.2^{+172.8}_{-162.0}$	13.9	$-13.2 \pm 0.1$	b
ESO 006-001	124.8471	-85.1456	$0.28 \pm 0.03$	0.11		$223.2^{+22.6}_{-22.1}$	$27.16 \pm 0.09$	$2704.0^{+114.4}_{-109.8}$	14.8	-12.4	h
ESO 274-001	228.5563	-46.8125		0.90			$27.18 \pm 0.08$	$2729.0^{+102.4}_{-98.7}$	9.0	-18.2	$_{\rm f,a}$
ESO 294-G010	6.6392	-41.8553	$0.42 \pm 0.04$	0.37	57.0	$248.5^{+23.8}_{-24.1}$	$26.54 \pm 0.04$	$2032.4_{-37.1}^{+37.8}$	15.3	$-11.2 \pm 0.3$	b
ESO 410-G005	3.8817	-32.1800	$0.50 \pm 0.05$	0.37	57.0	$280.2^{+30.6}_{-28.2}$	$26.42 \pm 0.04$	$1923.1^{+35.8}_{-35.1}$	14.9	$-11.5 \pm 0.3$	b
GR 8	194.6683	14.2175	$0.32 \pm 0.04$	$0.20 \pm 0.05$	$61.0 \pm 2.0$	$181.3^{+24.0}_{-26.3}$	$26.69 \pm 0.12$	$2177.7^{+123.7}_{-117.1}$	14.2	$-12.5 \pm 0.2$	b
HIZSS 3A	105.1221	-4.2083					$26.12 \pm 0.14$	$1674.9^{+111.5}_{-104.6}$			b
HIZSS 3B	105.1221	-4.2083					$26.12 \pm 0.14$	$1674.9^{+111.5}_{-104.6}$			b
IC 1613	16.1992	2.1178	$7.57 \pm 0.05$	$0.20 \pm 0.05$	$90.5 \pm 1.0$	$1439.2^{+57.5}_{-58.1}$	$24.32 \pm 0.05$	$731.1^{+17.0}_{-16.6}$	9.2	$-15.1\pm0.1$	$_{\rm e,b,i}$
IC 3104	184.6917	-79.7261	2.01	$0.52 \pm 0.02$	$45.0 \pm 2.0$	292.7	$26.78 \pm 0.18$	$2269.9_{-180.6}^{+196.2}$	12.5	-14.3	b
IC 4662	266.7867	-64.6417	$0.48 \pm 0.05$	$0.27 \pm 0.01$	$-69.0 \pm 4.0$	$293.4^{+37.3}_{-36.9}$	$26.94 \pm 0.17$	$2443.4^{+199.0}_{-184.0}$	11.1	$-15.8 \pm 0.3$	b
IC 5152	330.6729	-51.2964	0.97	$0.38 \pm 0.02$	$100.0\pm2.0$	137.9	$26.45 \pm 0.05$	$1949.8^{+45.4}_{-44.4}$	10.6	-15.9	b
KK 258	340.1829	-30.7997	1.60	0.50		245.6	$26.85 \pm 0.07$	$2344.2^{+76.8}_{-74.4}$	16.2	-10.6	$_{ m j,k}$
KKH 86	208.6396	4.2431	$0.28 \pm 0.03$	$0.39 \pm 0.01$	$-3.0 \pm 1.0$	$162.8^{+22.0}_{-21.4}$	$27.06 \pm 0.16$	$2582.3_{-183.4}^{+197.5}$	17.1	$-10.0 \pm 0.3$	b
KKH 98	356.3917	38.7178	$0.64 \pm 0.06$	$0.41 \pm 0.01$	$-5.0\pm1.0$	$358.5^{+39.1}_{-34.5}$	$27.01 \pm 0.09$	$2523.5^{+106.8}_{-102.5}$	15.2	$-11.8 \pm 0.3$	b
KKR 25	243.4500	54.3711	$0.40 \pm 0.06$	$0.41 \pm 0.02$		$171.6^{+27.9}_{-24.9}$	$26.42\pm0.07$	$1923.1^{+63.0}_{-61.0}$	15.9	$-10.5 \pm 0.2$	b
KKR 3	211.7937	35.0603	$0.36 \pm 0.04$	$0.05 \pm 0.01$	$0.0 \pm 1.0$	$220.7^{+30.4}_{-25.2}$	$26.70\pm0.12$	$2187.8^{+124.3}_{-117.6}$	17.2	$-9.5 \pm 0.3$	b

Table 11 continued on next page

Table 11 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
KKS 3	36.1850	-73.5142	2.45	0.60		303.9	$26.63 \pm 0.07$	$2118.4^{+69.4}_{-67.2}$	15.3	-11.3	l,a
KKS53	197.8091	-38.9061	0.79	0.13		195.0	$27.28 \pm 0.07$	$2857.6^{+93.6}_{-90.6}$	16.6	-10.7	$_{\rm f,a}$
Leo A	149.8604	30.7464	$2.30 \pm 0.09$	$0.42 \pm 0.05$	$116.4 \pm 6.1$	$364.3^{+21.6}_{-23.0}$	$24.28 \pm 0.05$	$717.8^{+16.7}_{-16.3}$	12.4	$-11.9 \pm 0.2$	$_{\mathrm{e,b}}$
Leo K	141.0254	16.5106	$0.40 \pm 0.05$	$0.26^{+0.08}_{-0.09}$	$101.0 \pm 3.0$	$42.4_{-8.0}^{+9.0}$	$23.16^{+0.14}_{-0.55}$	$428.5^{+28.5}_{-95.9}$	18.5	$-4.7^{+0.7}_{-0.4}$	$\mathbf{m}$
Leo M	166.3382	25.3452	$0.52^{+0.10}_{-0.08}$	$0.17^{+0.12}_{-0.11}$	$112.0 \pm 4.0$	$60.4_{-13.5}^{+15.2}$	$23.30^{+0.41}_{-0.09}$	$457.1^{+95.0}_{-18.6}$	18.0	$-5.3^{+0.3}_{-0.4}$	$\mathbf{m}$
Leo P	155.4379	18.0881	1.20	0.52	335.0	124.8	$26.05\pm0.20$	$1621.8^{+156.5}_{-142.7}$	16.8	$-9.3 \pm 0.2$	n
Leo T	143.7225	17.0514	$1.39 \pm 0.20$	$0.12 \pm 0.08$	$121.1\pm34.7$	$156.6^{+25.0}_{-25.5}$	$23.08 \pm 0.08$	$413.0^{+15.5}_{-14.9}$	15.1	$-8.0\pm0.5$	$_{\mathrm{e,b}}$
NGC 300	13.7229	-37.6844	5.00	$0.83 \pm 0.01$	$108.0 \pm 2.0$	397.0	$26.59 \pm 0.06$	$2079.7^{+58.3}_{-56.7}$	8.1	$-18.5\pm0.1$	b
NGC 3109	150.7788	-26.1597	$4.30 \pm 0.10$	$0.82 \pm 0.01$	$92.0 \pm 1.0$	$685.9^{+37.3}_{-34.0}$	$25.57 \pm 0.08$	$1300.2^{+48.8}_{-47.0}$	10.7	$-14.9 \pm 0.1$	b
NGC 4163	183.0379	36.1692	$0.45 \pm 0.05$	$0.30 \pm 0.05$	$11.0\pm2.0$	$311.2^{+34.4}_{-35.3}$	$27.28 \pm 0.03$	$2857.6^{+39.8}_{-39.2}$	13.2	$-14.1 \pm 0.3$	b
NGC 4190	183.4358	36.6333	1.70	0.12		408.6	$27.21 \pm 0.06$	$2766.9^{+77.5}_{-75.4}$	13.4	-13.9	$_{\rm f,j}$
NGC 4214	183.9132	36.3274		0.22			$27.25 \pm 0.07$	$2818.4^{+92.3}_{-89.4}$	9.6	-17.6	$_{\rm f,a}$
NGC 55	3.7233	-39.1967	$5.16^{+0.02}_{-0.20}$	$0.83 \pm 0.01$	$108.0 \pm 2.0$	$1191.9^{+76.6}_{-72.8}$	$26.43 \pm 0.12$	$1932.0^{+109.8}_{-103.9}$	7.9	$-18.5\pm0.1$	b
NGC 55-dw1	3.8740	-38.4190	$5.20^{+1.20}_{-0.80}$	$0.56^{+0.10}_{-0.12}$	$156.0^{+7.0}_{-8.0}$	$2156.5_{-521.3}^{+526.9}$	$26.71_{-0.05}^{+0.12}$	$2197.9^{+124.9}_{-50.0}$	18.7	$-8.0_{-0.3}^{+0.5}$	О
NGC 6822	296.2358	-14.7892	$11.95 \pm 0.07$	$0.28 \pm 0.15$	$66.9 \pm 14.9$	$1674.7^{+143.7}_{-178.8}$	$23.78 \pm 0.05$	$570.2^{+13.3}_{-13.0}$	8.1	$-15.7\pm0.2$	$_{\mathrm{e,b}}$
Pavo	298.7499	-61.0724	$1.25\pm0.10$	$0.51 \pm 0.08$	$131.0 \pm 21.0$	$504.4^{+86.9}_{-78.3}$	$26.49 \pm 0.23$	$1986.1^{+221.9}_{-199.6}$	16.5	$-10.0\pm0.1$	p
Pegasus W	358.3125	22.1020	$0.38 \pm 0.03$	$0.17^{+0.07}_{-0.08}$	$92.0 \pm 3.0$	$93.6^{+11.5}_{-11.6}$	$24.81^{+0.14}_{-0.22}$	$916.2^{+61.0}_{-88.3}$	17.6	$-7.2 \pm 0.2$	$\mathbf{q}$
Pegasus dIrr	352.1513	14.7431	$3.81 \pm 0.05$	$0.56 \pm 0.05$	$126.3 \pm 0.3$	$648.1^{+43.0}_{-37.7}$	$24.74 \pm 0.05$	$887.2^{+20.7}_{-20.2}$	12.6	$-12.1\pm0.2$	$_{\rm e,b,i}$
Phoenix	27.7750	-44.4450	$2.43 \pm 0.02$	$0.30 \pm 0.03$	$8.0 \pm 4.0$	$242.8^{+19.2}_{-18.6}$	$23.06^{+0.21}_{-0.12}$	$409.3^{+41.6}_{-22.0}$	13.2	$-9.9 \pm 0.4$	$_{\rm r,s}$
Sagittarius dIrr	292.4958	-17.6808	$1.13 \pm 0.10$	$0.56 \pm 0.18$	$86.9 \pm 3.4$	$259.4^{+54.9}_{-60.5}$	$25.39 \pm 0.08$	$1196.7^{+44.9}_{-43.3}$	13.6	$-11.8 \pm 0.2$	$_{\mathrm{e,b}}$
Sextans A	152.7533	-4.6928	2.47	$0.17 \pm 0.02$	$0.0 \pm 1.0$	288.3	$25.70 \pm 0.08$	$1383.6^{+51.3}_{-49.4}$	11.5	$-14.2 \pm 0.1$	$_{\rm t,b}$
Sextans B	150.0004	5.3322	$1.06\pm0.10$	$0.31 \pm 0.03$	$110.0 \pm 2.0$	$356.0^{+34.5}_{-35.1}$	25.72	1393.2	11.3	$-14.4 \pm 0.2$	$_{\rm t,b}$
Tucana	340.4567	-64.4194	$1.10 \pm 0.20$	$0.48 \pm 0.03$	$97.0 \pm 2.0$	$203.8^{+41.2}_{-39.4}$	$24.74 \pm 0.12$	$887.2^{+50.4}_{-47.7}$	15.2	$-9.5 \pm 0.2$	b
Tucana B	341.7521	-58.4075	$0.20 \pm 0.08$	< 0.35		$81.5^{+39.7}_{-36.2}$	$25.75^{+0.55}_{-0.45}$	$1412.5^{+407.2}_{-264.4}$	18.9	$-6.9_{-0.6}^{+0.5}$	u
UGC 4879	139.0092	52.8400	$1.13 \pm 0.10$	$0.43 \pm 0.06$	$81.2 \pm 6.5$	$300.3^{+33.5}_{-27.7}$	$25.43 \pm 0.06$	$1219.0_{-33.2}^{+34.2}$	13.2	$-12.2\pm0.2$	$_{\mathrm{e,b}}$
UGC~8508	202.6850	54.9100	$0.42 \pm 0.04$	$0.45 \pm 0.05$	$-60.0 \pm 2.0$	$233.6^{+26.9}_{-25.0}$	$27.06 \pm 0.03$	$2582.3_{-35.4}^{+35.9}$	13.7	$-13.4\pm0.1$	b
UGC 9128	213.9854	23.0553	$0.64 \pm 0.07$	$0.40 \pm 0.05$	$46.0 \pm 2.0$	$330.6^{+36.6}_{-39.1}$	$26.80 \pm 0.04$	$2290.9_{-41.8}^{+42.6}$	14.4	$-12.4\pm0.3$	b
UGCA 86	59.9513	67.1386	0.94	$0.32 \pm 0.03$	$25.0 \pm 1.0$	212.8	$27.36 \pm 0.17$	$2964.8^{+241.4}_{-223.3}$	14.2	-13.2	b
UKS 2323-326	351.6146	-32.3889	$0.90 \pm 0.10$	$0.10 \pm 0.01$	$-60.0 \pm 4.0$	$545.1^{+64.6}_{-63.9}$	$26.72 \pm 0.09$	$2208.0^{+93.4}_{-89.6}$	13.5	$-13.2\pm0.2$	b
WLM	0.4925	-15.4608	$4.10 \pm 0.13$	$0.54 \pm 0.06$	$177.0 \pm 0.5$	$753.3^{+55.2}_{-54.5}$	$24.85 \pm 0.05$	$933.3_{-21.2}^{+21.7}$	10.6	$-14.3 \pm 0.1$	$_{\mathrm{e,b}}$

Table 11 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			

Note— Citations: (a) ? (b) McConnachie (2012) (c) Hargis et al. (2020) (d) Sand et al. (2015) (e) Higgs et al. (2021) (f) ? (g) Carlin et al. (2019) (h) Makarova et al. (2023) (i) Savino et al. (2022) (j) Karachentsev et al. (2004) (k) Karachentsev et al. (2014) (l) Karachentsev et al. (2015b) (m) McQuinn et al. (2023b) (n) McQuinn et al. (2015) (o) McNanna et al. (2023) (p) Jones et al. (2023) (q) McQuinn et al. (2023a) (r) Battaglia et al. (2012) (s) van de Rydt et al. (1991) (t) Dalcanton et al. (2009) (u) Sand et al. (2022)

Table 12. Properties of Local Field dwarf galaxies

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_\delta$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			$\mathrm{mas}\ \mathrm{yr}^{-1}$	$\mathrm{mas}\;\mathrm{yr}^{-1}$	
AGC749235	219.7670	83.8428	288.0						a
Antlia	263.0971	22.3123	$362.0 \pm 2.0$						b
Antlia B	259.4146	21.0783	$375.5 \pm 1.5$	$8.00^{+1.60}_{-1.40}$					$\mathbf{c}$
Aquarius	34.0491	-31.3432	$-141.8^{+1.8}_{-2.0}$	$7.80^{+1.80}_{-1.10}$	$-1.50\pm0.06$				d
Cetus	101.4548	-72.8546	$-83.9\pm1.2$	$8.30\pm1.00$	$-1.74\pm0.06$	$0.42 \pm 0.04$			e
DDO 113	161.1016	78.0605	$284.0 \pm 6.0$						$\mathbf{f}$
DDO 125	137.7580	72.9422	$194.9 \pm 0.2$						f
DDO 147	128.4088	80.6046	331.0						g
DDO 190	82.0085	64.4771	$150.0 \pm 4.0$						f
DDO 44	149.0987	28.9584							
DDO 99	166.1976	72.7452	$251.0 \pm 4.0$						f
ESO 006-001	297.9558	-25.2235	$319.0 \pm 57.0$		$-1.50\pm0.20$				h
ESO 274-001	326.8040	9.3341	522.0						g
ESO 294-G010	320.4157	-74.4176	$106.9 \pm 0.8$						i
ESO 410-G005	357.8445	-80.7112	$158.9 \pm 1.9$						i
GR 8	310.7375	76.9795	$213.9 \pm 2.5$						j
HIZSS 3A	217.7081	0.0905	$288.0 \pm 2.5$						f
HIZSS 3B	217.7081	0.0905	$322.6 \pm 1.4$						f
IC 1613	129.7378	-60.5773	$-231.6\pm1.2$	$10.80^{+1.00}_{-0.90}$	$-1.19\pm0.01$	0.37	$0.040\pm0.020$	$0.010\pm0.010$	$_{\mathrm{k,e}}$
IC 3104	301.4140	-16.9508	$429.0 \pm 4.0$						f
IC 4662	328.5486	-17.8497	$302.0 \pm 3.0$						f
IC 5152	343.9191	-50.1919	$122.0 \pm 2.0$						f
KK 258	17.7289	-61.2774	$92.0 \pm 5.0$						1
KKH 86	339.0437	62.6026	$287.2 \pm 0.7$						$\mathbf{f}$
KKH 98	109.0931	-22.3774	$-136.9\pm1.0$						$\mathbf{f}$
$\rm KKR~25$	83.8789	44.4084	$-139.5\pm1.0$						$\mathbf{f}$
KKR 3	63.7099	71.9922	$63.3 \pm 1.8$						f

Table 12 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	$\rm km\ s^{-1}$			${ m mas~yr^{-1}}$	${ m mas~yr^{-1}}$	
KKS 3	294.2352	-42.0020	$316.0 \pm 7.0$		-1.90				m
KKS53	307.1403	23.8038							
Leo A	196.9036	52.4226	$26.2^{+1.0}_{-0.9}$	$9.00^{+0.80}_{-0.60}$	$-1.67^{+0.09}_{-0.08}$		$-0.060 \pm 0.090$	$-0.060^{+0.090}_{-0.080}$	$_{\mathrm{k,d}}$
Leo K	214.2409	41.0616							
Leo M	211.1932	66.1881							
Leo P	219.6378	54.4352	$260.8 \pm 2.5$						n
Leo T	214.8524	43.6609	$38.1 \pm 2.0$	$7.50 \pm 1.60$	$-1.74 \pm 0.04$	0.54	$0.230^{+0.260}_{-0.370}$	$-0.120 \pm 0.220$	$_{\mathrm{k,o}}$
NGC 300	299.2083	-79.4188	$146.0 \pm 2.0$						f
NGC 3109	262.1018	23.0701	$403.0 \pm 2.0$				$-0.040 \pm 0.030$	$-0.010 \pm 0.030$	$_{\mathrm{k,f}}$
NGC 4163	163.2045	77.7002	$165.0 \pm 5.0$						$\mathbf{f}$
NGC 4190	160.6200	77.5895	235.0						g
NGC 4214	160.2527	78.0742	293.0						g
NGC 55	332.8820	-75.7309	$129.0 \pm 2.0$						$\mathbf{f}$
NGC $55\text{-dw}1$	334.3700	-76.4312							
NGC 6822	25.3513	-18.3892	$-54.5 \pm 1.7$	$23.20\pm1.20$	$-1.05\pm0.01$	0.49	$-0.060 \pm 0.010$	$-0.070 \pm 0.010$	$_{\rm k,e}$
Pavo	335.8525	-31.1285							
Pegasus W	105.5582	-38.7987			$-1.90\pm0.10$				
Pegasus dIrr	94.7769	-43.5541	$-179.5\pm1.5$	$12.30^{+1.20}_{-1.10}$	$-1.39\pm0.01$	0.56	$0.150^{+0.130}_{-0.140}$	$0.070^{+0.120}_{-0.110}$	$_{\rm k,e}$
Phoenix	272.1615	-68.9497	$-21.2\pm1.0$	$9.30 \pm 0.70$	$-1.49 \pm 0.04$	$0.51 \pm 0.04$	$0.070\pm0.030$	$-0.060 \pm 0.040$	$_{\rm k,p}$
Sagittarius dIrr	21.0534	-16.2859	$-78.4 \pm 1.6$	$9.40^{+1.50}_{-1.10}$	$-1.88^{+0.13}_{-0.09}$		$0.110^{+0.190}_{-0.180}$	$-0.370 \pm 0.170$	$_{\rm k,d}$
Sextans A	246.1482	39.8755	$324.0 \pm 2.0$				$-0.150^{+0.050}_{-0.040}$	$-0.030^{+0.040}_{-0.050}$	$_{\rm k,q}$
Sextans B	233.2001	43.7838	$304.0 \pm 1.0$				$-0.290 \pm 0.160$	$-0.280 \pm 0.170$	$_{\rm k,r}$
Tucana	322.9083	-47.3694	$180.0\pm1.3$	$6.20^{+1.60}_{-1.30}$	-1.58	0.39			$\mathbf{S}$
Tucana B	328.9877	-51.9619							
UGC 4879	164.6652	42.8843	$-29.2\pm1.6$	$9.60^{+1.30}_{-1.20}$	$-1.43 \pm 0.02$	0.52	$0.000\pm0.110$	$-0.040 \pm 0.090$	$_{\rm k,e}$
UGC 8508	111.1411	61.3094	$56.0 \pm 5.0$						f
UGC 9128	25.5732	70.4648	$152.0\pm1.0$						f
UGCA 86	139.7625	10.6472	$67.0 \pm 4.0$						f
UKS 2323-326	11.8670	-70.8589	$62.0 \pm 5.0$						f
WLM	75.8637	-73.6244	$-130.0 \pm 1.0$	$17.50 \pm 2.00$			$0.090 \pm 0.030$	$-0.070 \pm 0.020$	k,t

Table 12 continued on next page

Table 12 (continued)

Name	l	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe/H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			${ m mas~yr^{-1}}$	${\rm mas~yr^{-1}}$	

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

Table 13. Properties of globular clusters hosted in dwarf galaxies

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
Fornax GC 2		02:38:44.1	-34:48:30.0	Shapley (1938b)		Star Cluster
Fornax GC $3$	NGC 1049	02:39:48.1	-34:15:30.0	Shapley (1938b)		Star Cluster
	Hodge 3					
Fornax GC $4$		02:40:07.6	-34:32:10.0	Shapley (1938b)		Star Cluster
Fornax GC 6		02:40:06.9	-34:25:19.2	Shapley (1938b)		Star Cluster
				Wang et al. (2019b)		
WLM GC $1$	WLM 1	00:01:49.5	-15:27:30.7	Humason et al. (1956)		Star Cluster
Fornax GC $1$		02:37:01.9	-34:11:01.0	Hodge (1961)		Star Cluster
Fornax GC $5$		02:42:21.1	-34:06:07.0	Hodge (1961)		Star Cluster
DDO 216-A1		23:28:26.3	+14:44:25.2	Hoessel & Mould (1982)		Star Cluster
				Cole et al. (2017)		
Sextans A-GC1		10:10:43.8	-04:43:28.8	Pedreros & Gallart (2002)		Star Cluster
				Beasley et al. (2019)		
Scl-dE1 $GC1$		00:23:52.7	-24:41:58.0	Da Costa et al. (2009)		Star Cluster
Eri II GC		03:44:22.4	-43:32:00.1	Koposov et al. (2015a)		Star Cluster
				Crnojević et al. (2016)		

Table 14. Properties of globular clusters hosted in dwarf galaxies

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	deg	arcmin			pc		kpc			
DDO 216-A1	352.1096	14.7403	0.05			4.3	$24.77 \pm 0.08$	$899.5^{+33.8}_{-32.5}$	17.6	$-7.1 \pm 0.2$	a
Eri II GC	56.0933	-43.5334	$0.16 \pm 0.01$	$0.31^{+0.05}_{-0.06}$	$75.0 \pm 6.0$	$14.0^{+1.2}_{-1.0}$	$22.84 \pm 0.05$	$369.8^{+8.6}_{-8.4}$	19.9	$-2.9 \pm 0.3$	$_{\rm b,c}$
Fornax GC 1	39.2579	-34.1836	$0.30 \pm 0.00$			$12.7 \pm 0.4$	$20.84 \pm 0.06$	$147.2^{+4.1}_{-4.0}$	15.3	$-5.5 \pm 0.3$	$_{ m d,e}$
Fornax GC 2	39.6838	-34.8083	$0.23 \pm 0.00$			$9.7 \pm 0.3$	$20.78 \pm 0.05$	$143.2 \pm 3.3$	13.6	$-7.2 \pm 0.3$	$_{ m d,e}$
Fornax GC $3$	39.9504	-34.2583	$0.12 \pm 0.00$			$4.9 \pm 0.2$	$20.76\pm0.06$	$141.9^{+4.0}_{-3.9}$	12.9	$-7.9 \pm 0.3$	$_{ m d,e}$
Fornax GC $4$	40.0317	-34.5361	$0.12 \pm 0.01$			$4.7 \pm 0.3$	$20.74 \pm 0.05$	$140.6^{+3.3}_{-3.2}$	13.8	$-7.0\pm0.6$	$_{\rm f,d}$
Fornax GC $5$	40.5879	-34.1019	$0.11 \pm 0.00$			$4.6 \pm 0.2$	$20.80 \pm 0.05$	$144.5^{+3.4}_{-3.3}$	13.6	$-7.2\pm0.5$	$_{ m d,e}$
Fornax GC 6	40.0288	-34.4220	$0.28 \pm 0.03$	$0.41 \pm 0.10$	$13.1^{+10.4}_{-7.3}$	$8.9\pm1.3$	$20.77 \pm 0.05$	$142.6^{+3.2}_{-3.1}$	16.0	$-4.7\pm0.4$	g
Scl-dE1 $GC1$	5.9695	-24.6994	$0.02\pm0.00$			$21.8^{+1.6}_{-1.5}$	$28.17 \pm 0.12$	$4305.3^{+244.6}_{-231.5}$	21.5	$-6.7 \pm 0.1$	h
Sextans A-GC1	152.6825	-4.7247	$0.02\pm0.00$	$0.12 \pm 0.01$		$6.9 \pm 0.3$	$25.70 \pm 0.08$	$1383.6^{+51.3}_{-49.4}$	18.0	-7.7	$_{i,j}$
WLM GC 1	0.4562	-15.4585	$0.05 \pm 0.00$	$0.17 \pm 0.04$		$11.9 \pm 1.0$	$24.73 \pm 0.07$	$883.1^{+28.9}_{-28.0}$	16.0	-8.7	k,l

NOTE— Citations: (a) Cole et al. (2017) (b) Martínez-Vázquez et al. (2021) (c) Simon et al. (2021) (d) Mackey & Gilmore (2003a) (e) Mackey & Gilmore (2003b) (f) Greco et al. (2007) (g) Wang et al. (2019b) (h) Da Costa et al. (2009) (i) Beasley et al. (2019) (j) Dalcanton et al. (2009) (k) Hodge et al. (1999) (l) Stephens et al. (2006)

Table 15. Properties of globular clusters hosted in dwarf galaxies

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	[Fe/H]	Cip (vi		II s	Ref
Name	deg	$\deg$	${ m km~s^{-1}}$	${ m km~s^{-1}}$	[1.6/11]	$\sigma_{ m [Fe/H]}$	$\mu_{\alpha\star}$ mas yr <sup>-1</sup>	$\mu_{\delta}$ mas yr <sup>-1</sup>	1001
DDO 216-A1	94.7252	-43.5391	$-176.5 \pm 9.5$		$-1.79 \pm 0.04$				a
Eri II GC	249.7807	-51.6425	$79.7^{+3.1}_{-3.8}$	$2.30^{+5.30}_{-2.30}$	-2.00				b
Fornax GC 1	236.7245	-66.2991	$59.0 \pm 1.0$		$-2.50 \pm 0.10$				c
Fornax GC 2	238.0786	-65.8389	$64.0 \pm 1.0$		$-2.10\pm0.10$				c
Fornax GC 3	236.6632	-65.7222	$60.4 \pm 0.2$	$6.50 \pm 0.20$	$-2.40\pm0.10$				d
Fornax GC $4$	237.2991	-65.6081	$47.2 \pm 0.1$	$4.10\pm0.10$	$-1.40 \pm 0.10$				d
Fornax GC 5	236.0873	-65.2267	$60.6 \pm 0.2$	$4.60\pm0.20$	$-2.10\pm0.10$				d
Fornax GC 6	237.0280	-65.6305	$50.5 \pm 1.7$	$5.60^{+2.00}_{-1.80}$	$-0.70\pm0.05$	< 0.17	$0.392 \pm 0.026$	$-0.448 \pm 0.042$	e
Scl-dE1 GC1	52.8010	-83.3453							
Sextans A-GC1	246.1181	39.8016	$305.0 \pm 15.0$		$-2.38 \pm 0.29$				$\mathbf{f}$
WLM GC 1	75.7778	-73.5990	$-105.8 \pm 0.4$		$-1.96 \pm 0.08$				g

Note— Citations: (a) Leaman et al. (2020) (b) Zoutendijk et al. (2020) (c) Letarte et al. (2006) (d) Larsen et al. (2012) (e) Pace et al. (2021) (f) Beasley et al. (2019) (g) Stephens et al. (2006)

Table 16. Properties of MW disk star clusters

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		deg	deg			
BH 140		12:53:53.5	-67:10:37.2	Cantat-Gaudin et al. (2018)		Star Cluster
ESO 456-29	MWSC2761	17:58:36.2	-32:01:12.0	Gran et al. (2019)		Star Cluster
	Gran 1					
Ferrero 54		08:33:48.3	-44:26:49.0			Star Cluster
Patchick 122		09:42:30.7	-52:25:41.0			Star Cluster
Patchick 126		17:05:38.6	-47:20:32.0			Star Cluster
Patchick 99		18:15:47.0	-29:48:46.0	Bica et al. (2019)	Cand.	
ESO 93-SC08	ESO 93-SC08	11:19:42.0	-65:13:12.0	Holmberg et al. (1977)	Cand.	
Pfleiderer 2	PWM2	17:58:40.0	-05:04:30.0	Pfleiderer et al. (1977)	Cand.	
				Ortolani et al. (2009)		
Mercer 5	[MCM2005b]	18:23:19.0	-13:40:02.0	Mercer et al. (2005)	Cand.	
				Longmore et al. (2011)		
FSR 1716	VVV- $GC05$	16:10:30.0	-53:44:56.0	Froebrich et al. (2007)		Star Cluster
FSR 1758		17:31:12.0	-39:48:30.0	Froebrich et al. (2007)		Star Cluster
				Cantat-Gaudin et al. (2018)		
FSR 1776	Minni 83	17:54:14.3	-36:09:08.6	Froebrich et al. (2007)		Star Cluster
FSR 19		17:35:38.4	-21:04:12.0	Froebrich et al. (2007)	Cand.	
FSR 25		17:41:43.2	-19:34:15.6	Froebrich et al. (2007)	Cand.	
VVV CL0001	VVV GC001	17:54:42.5	-24:00:53.0	Minniti et al. (2011)		Star Cluster
VVV CL0002	VVV GC002	17:06:06.3	-28:50:42.3	Moni Bidin et al. (2011)	Cand.	
VVV CL160	RCR-01	18:06:57.1	-20:00:54.0	Borissova et al. (2014)		Star Cluster
				Minniti et al. (2021a)		
Gaia 1		06:45:52.8	-16:45:00.0	Koposov et al. (2017)		Star Cluster
Gaia 2		01:52:29.8	+53:02:24.0	Koposov et al. (2017)	Cand.	
Minni 48		17:33:18.0	-28:00:02.0	Minniti et al. (2017b)	Cand.	
				Minniti et al. (2021b)		
Ryu 059	RLGC 1	16:17:08.4	-44:35:38.6	Ryu & Lee (2018a)	Cand.	

Table 16 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	$\deg$			
				Ryu & Lee (2018b)		
Ryu 879	RLGC 2	18:45:28.2	-05:11:33.3	Ryu & Lee (2018a)	Cand.	
				Ryu & Lee (2018b)		
Garro 1	Garro 01	14:09:00.0	-65:37:12.0	Garro et al. (2020)		Star Cluster
	VVVX-GC-140900-653712					
Gran 2		17:11:33.6	-24:50:56.4	Gran et al. (2022)		Star Cluster
Gran 3	Patchick 125	17:05:01.4	-35:29:45.6	Gran et al. (2022)		Star Cluster
Gran 4		18:32:27.1	-23:06:50.4	Gran et al. (2022)		Star Cluster
Gran 5		17:48:54.7	-24:10:12.0	Gran et al. (2022)		Star Cluster
Garro 2		18:05:54.0	-17:42:00.0	Garro et al. (2022a)	Cand.	

Table 17. Properties of MW disk star clusters

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
BH 140	193.4730	-67.1770	4.45			2.0	13.41	4.8	7.3	$-6.1 \pm 0.1$	a,b,c
ESO 456-29	269.6510	-32.0200	$0.86 \pm 0.04$			$2.0\pm0.1$	14.50	7.9	9.1	-5.4	d
ESO 93-SC08	169.9250	-65.2200									
FSR 1716	242.6250	-53.7489	1.71			1.2	14.36	7.4	9.6	$-4.8 \pm 0.1$	$_{a,b,c}$
FSR 1758	262.8000	-39.8083	$6.33^{+0.87}_{-1.00}$			$20.3^{+3.2}_{-3.0}$	15.22	11.1	6.8	$-8.4 \pm 0.1$	$_{\mathrm{e,b,c}}$
FSR 1776	268.5595	-36.1524					14.30	7.2			$_{\mathrm{f,g}}$
FSR 19	263.9100	-21.0700	$0.90 \pm 0.07$			$1.9 \pm 0.2$	$14.29 \pm 0.08$	$7.2 \pm 0.3$	9.7	-4.6	h
FSR 25	265.4300	-19.5710	$0.87^{+0.19}_{-0.17}$			$1.8\pm0.4$	$14.23\pm0.06$	$7.0 \pm 0.2$	10.0	-4.2	h
Ferrero 54	128.4512	-44.4469					$14.27 \pm 0.03$	$7.1 \pm 0.1$			i
Gaia 1	101.4700	-16.7500	$6.50 \pm 0.40$			$8.4^{+0.6}_{-0.5}$	13.25	4.5	8.3	$-4.9 \pm 0.1$	$_{\rm j,k}$
Gaia 2	28.1240	53.0400	$1.90^{+0.40}_{-0.34}$	$0.18^{+0.20}_{-0.12}$		$2.6^{+0.5}_{-0.6}$	$13.60\pm0.10$	$5.2 \pm 0.2$	11.6	$-2.0\pm0.1$	j
Garro 1	212.2500	-65.6200	$2.40^{+0.60}_{-0.40}$			$10.7^{+2.1}_{-2.3}$	$15.93\pm0.03$	$15.3 \pm 0.2$	10.7	$-5.3\pm1.0$	$_{ m l,m}$
Garro 2	271.4750	-17.7000	$1.58^{+0.44}_{-0.47}$			$2.5^{+0.9}_{-0.8}$	$13.74 \pm 0.31$	$5.6^{+0.9}_{-0.7}$	8.3	$-5.4 \pm 1.2$	n
Gran 2	257.8900	-24.8490	$1.07 \pm 0.03$			$5.2 \pm 0.1$	16.10	16.6	10.2	-5.9	d
Gran 3	256.2560	-35.4960	$1.70 \pm 0.20$			$5.9 \pm 0.7$	15.40	12.0			$_{\rm i,d,m}$
Gran 4	278.1130	-23.1140	$2.20^{+0.50}_{-0.40}$			$15.0^{+3.2}_{-2.8}$	16.84	23.3	10.4	-6.4	$_{ m d,m}$
Gran 5	267.2280	-24.1700	$0.94 \pm 0.04$			$1.2\pm0.1$	13.25	4.5	8.1	$-5.2 \pm 0.2$	$_{\rm b,d}$
Mercer 5	275.8292	-13.6672					13.69	5.5			$_{\rm c,o}$
Minni 48	263.3250	-28.0006	$6.00\pm1.00$			$14.7^{+2.8}_{-2.5}$	$14.62\pm0.08$	$8.4 \pm 0.3$	8.1	$-6.5 \pm 0.8$	p
Patchick 122	145.6279	-52.4281					$13.72\pm0.05$	$5.5 \pm 0.1$			i
Patchick 126	256.4108	-47.3422	0.48			0.4	$14.66\pm0.02$	$8.6 \pm 0.1$	11.0	$-3.6\pm0.3$	$_{\mathrm{a,b,i}}$
Patchick 99	273.9458	-29.8128	1.87			1.1	$14.02\pm0.04$	$6.4 \pm 0.1$	8.8	-5.2	$\mathbf{q}$
Pfleiderer 2	269.6667	-5.0750	$1.24 \pm 0.13$			$5.9 \pm 0.6$	16.07	16.4	13.6	-2.5	$\mathbf{r}$
Ryu 059	244.2850	-44.5941	$0.55 \pm 0.03$			$4.6\pm0.7$	$17.30 \pm 0.30$	$28.8^{+4.3}_{-3.7}$	9.1	$-8.2\pm0.3$	s
Ryu 879	281.3674	-5.1926	$0.47 \pm 0.01$			$2.2\pm0.3$	$16.00\pm0.30$	$15.8^{+2.3}_{-2.0}$	8.0	$-8.0\pm0.3$	$\mathbf{S}$
VVV $CL0001$	268.6771	-24.0147	1.00			0.8	14.58	8.2	8.0	$-6.6 \pm 0.5$	$_{\rm b,t,u}$
VVV CL0002	256.5263	-28.8451	$0.75 \pm 0.10$			$1.6^{+0.3}_{-0.2}$	$14.32 \pm 0.23$	$7.3^{+0.8}_{-0.7}$	10.9	$-3.4 \pm 0.3$	v

 $\frac{3}{8}$ 

Table 17 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
VVV CL160	271.7380	-20.0150	2.20			0.8	$13.01 \pm 0.10$	$4.0 \pm 0.2$	8.2	$-4.8 \pm 0.5$	b,w

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

Table 18. Properties of MW disk star clusters

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_\delta$	Ref
	$\deg$	$\deg$	$\rm km\ s^{-1}$	$\rm km\ s^{-1}$			${\rm mas~yr^{-1}}$	${\rm mas~yr^{-1}}$	
BH 140	303.1706	-4.3064					$-14.848 \pm 0.024$	$1.224 \pm 0.024$	a
ESO 456-29	358.7671	-3.9767	$77.0 \pm 3.6$		$-1.13 \pm 0.06$		$-8.163 \pm 0.038$	$-8.045 \pm 0.036$	$_{\rm b,a}$
ESO 93-SC08	293.5082	-4.0404					$-4.068 \pm 0.033$	$1.400\pm0.034$	$\mathbf{a}$
FSR 1716	329.7781	-1.5926	$-30.3\pm1.2$	$2.50 \pm 0.90$	$-1.38\pm0.20$		$-4.354 \pm 0.033$	$-8.832 \pm 0.031$	$_{\rm c,a}$
FSR 1758	349.2166	-3.2924	$224.9 \pm 0.7$	$3.51 \pm 0.49$	$-1.43 \pm 0.08$		$-2.881 \pm 0.026$	$2.519\pm0.025$	$_{ m d,a}$
FSR 1776	354.7201	-5.2500	$-103.7\pm0.4$		$0.02 \pm 0.01$	0.14	$-2.300 \pm 1.100$	$-2.600 \pm 0.800$	e
FSR 19	5.4986	6.0708					$-2.500 \pm 0.760$	$-5.020 \pm 0.470$	$\mathbf{f}$
FSR 25	7.5343	5.6491					$-2.610 \pm 1.270$	$-5.230 \pm 0.740$	$\mathbf{f}$
Ferrero 54	262.8029	-2.5708	$56.1 \pm 3.2$				$-1.330 \pm 0.270$	$1.310\pm0.340$	$_{\mathrm{g,h}}$
Gaia 1	227.3383	-8.7474	$58.3 \pm 0.2$	$0.94 \pm 0.15$	$-0.13\pm0.13$				i
Gaia 2	132.1478	-8.7357	$-54.4 \pm 3.8$						h
Garro 1	310.8278	-3.9443	$31.0 \pm 0.1$	< 0.80	$-0.30\pm0.03$		$-4.350 \pm 0.020$	$-1.090 \pm 0.020$	j
Garro 2	12.0478	1.6461			-1.30		$-6.070 \pm 0.620$	$-6.150 \pm 0.750$	k
Gran 2	359.2293	8.5861	$61.2 \pm 2.7$		$-1.46\pm0.13$		0.190	-2.570	$_{\mathrm{l,b}}$
Gran 3	349.7563	3.4235	$90.9 \pm 0.4$	$1.90 \pm 0.30$	$-1.83^{+0.03}_{-0.04}$		$-3.740 \pm 0.030$	$0.710^{+0.010}_{-0.020}$	j
Gran 4	10.1964	-6.3885	$-266.4\pm0.2$	$1.40\pm0.20$	$-1.84 \pm 0.02$		$0.510\pm0.010$	$-3.510 \pm 0.010$	j
Gran 5	4.4592	1.8385	$-59.2 \pm 4.9$		$-1.02\pm0.11$		-5.320	-9.200	$_{\mathrm{l,b}}$
Mercer 5	17.5936	-0.1086					$-3.965 \pm 0.114$	$-7.220 \pm 0.111$	$\mathbf{a}$
Minni 48	359.3514	2.7902					$-3.500 \pm 0.500$	$-6.000 \pm 0.500$	$\mathbf{m}$
Patchick 122	276.3398	0.4062	$98.7 \pm 3.4$				$-3.720 \pm 0.120$	$3.810\pm0.120$	$_{\mathrm{g,h}}$
Patchick 126	340.3805	-3.8263	$-123.6 \pm 2.9$				$-4.750 \pm 0.460$	$-6.680 \pm 0.620$	$_{\mathrm{g,h}}$
Patchick 99	2.4885	-6.1453					$-2.980 \pm 1.740$	$-5.490 \pm 2.020$	n
Pfleiderer 2	22.2807	9.3223					$-2.784 \pm 0.034$	$-4.158 \pm 0.031$	a
Ryu 059	336.8697	4.3031					$1.022\pm0.055$	$0.770\pm0.047$	a
Ryu 879	27.6310	-1.0422					$-2.396 \pm 0.077$	$-1.794 \pm 0.069$	a
VVV $CL0001$	5.2675	0.7797	$-324.9\pm0.8$		$-2.04\pm0.02$		$-3.487 \pm 0.144$	$-1.652 \pm 0.107$	$_{o,a}$
VVV CL0002	355.2410	7.2282					$-8.867 \pm 0.142$	$2.390 \pm 0.085$	a

Table 18 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			$mas yr^{-1}$	$mas yr^{-1}$	
VVV CL160	10.1478	0.2999	$245.3 \pm 0.8$				$-2.300 \pm 0.100$	$-16.800 \pm 0.100$	h,p

NOTE— Citations: (a) Vasiliev & Baumgardt (2021) (b) Gran et al. (2023) (c) Koch et al. (2017) (d) Romero-Colmenares et al. (2021) (e) Dias et al. (2022) (f) Obasi et al. (2021) (g) Garro et al. (2022b) (h) Garro et al. (2023) (i) Simpson et al. (2017) (j) Pace et al. (2023) (k) Garro et al. (2022a) (l) Gran et al. (2022) (m) Minniti et al. (2021b) (n) Garro et al. (2021) (o) Olivares Carvajal et al. (2022) (p) Minniti et al. (2021a)

Table 19. Properties of MW Harris catalog star clusters

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
ARP 2		19:28:44.1	-30:21:20.3			Star Cluster
BH 176		15:39:07.5	-50:03:09.8			Star Cluster
BH 261	AL 3	18:14:06.6	-28:38:06.0			Star Cluster
	ESO 456-78					
	MWSC 2847					
E 3		09:20:57.1	-77:16:54.8			Star Cluster
$ESO280\ SC06$		18:09:06.0	-46:25:24.0			Star Cluster
HP 1	BH 229	17:31:05.2	-29:58:54.0			Star Cluster
	ESO 455-11					
IC 1257		17:27:08.5	-07:05:35.0			Star Cluster
IC 1276	Palomar 7	18:10:44.3	-07:12:27.3			Star Cluster
IC 4499		15:00:18.5	-82:12:49.7			Star Cluster
Liller 1		17:33:24.6	-33:23:22.4			Star Cluster
Lynga 7	BH 184	16:11:03.7	-55:19:04.0			Star Cluster
NGC 104		00:24:05.7	-72:04:52.7			Star Cluster
NGC 1261		03:12:16.2	-55:12:58.4			Star Cluster
NGC 1851		05:14:06.8	-40:02:47.6			Star Cluster
NGC 1904	M 79	05:24:11.0	-24:31:27.9			Star Cluster
$NGC\ 2298$		06:48:59.4	-36:00:19.1			Star Cluster
NGC 2808		09:12:03.1	-64:51:48.6			Star Cluster
NGC 288		00:52:45.2	-26:34:57.4			Star Cluster
NGC 3201		10:17:36.8	-46:24:44.9			Star Cluster
NGC~362		01:03:14.3	-70:50:55.6			Star Cluster
NGC 4147		12:10:06.3	+18:32:33.5			Star Cluster
NGC 4372		12:25:45.4	-72:39:32.7			Star Cluster
NGC 4590	M 68	12:39:28.0	-26:44:38.6			Star Cluster
NGC 4833		12:59:33.9	-70:52:35.4			Star Cluster

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		deg	deg			
NGC 5024	M 53	13:12:55.3	+18:10:05.4			Star Cluster
NGC 5053		13:16:27.1	+17:42:00.9			Star Cluster
NGC 5139	omega Cen	13:26:47.3	-47:28:46.1			Star Cluster
	Caldwell 80					
NGC 5272	M 3	13:42:11.6	+28:22:38.2			Star Cluster
NGC 5286		13:46:26.8	-51:22:27.3			Star Cluster
NGC 5466		14:05:27.3	+28:32:04.0			Star Cluster
NGC 5634		14:29:37.3	-05:58:35.1			Star Cluster
NGC 5897		15:03:58.6	-33:04:05.3			Star Cluster
NGC 5897		15:17:24.4	-21:00:36.4			Star Cluster
NGC 5904	M 5	15:18:33.2	+02:04:51.7			Star Cluster
NGC 5927		15:28:00.7	-50:40:22.9			Star Cluster
NGC 5946		15:35:28.6	-50:39:35.0			Star Cluster
NGC 5986		15:46:03.0	-37:47:11.1			Star Cluster
NGC 6093	M 80	16:17:02.4	-22:58:33.9			Star Cluster
NGC 6101		16:25:48.1	-72:12:07.9			Star Cluster
NGC 6121	M 4	16:23:35.2	-26:31:32.7			Star Cluster
NGC 6139		16:27:40.4	-38:50:55.6			Star Cluster
NGC 6144		16:27:13.9	-26:01:24.6			Star Cluster
NGC 6171	M 107	16:32:31.9	-13:03:13.6			Star Cluster
NGC 6205	M 13	16:41:41.2	+36:27:35.5			Star Cluster
NGC 6218	M 12	16:47:14.2	-01:56:54.7			Star Cluster
NGC 6235		16:53:25.4	-22:10:38.8			Star Cluster
NGC 6254	M 10	16:57:09.1	-04:06:01.1			Star Cluster
NGC 6256		16:59:32.7	-37:07:15.5			Star Cluster
NGC 6266	M 62	17:01:13.0	-30:06:48.2			Star Cluster
NGC 6273	M 19	17:02:37.8	-26:16:04.7			Star Cluster
NGC 6284		17:04:28.8	-24:45:53.3			Star Cluster
NGC 6287		17:05:09.3	-22:42:28.8			Star Cluster
NGC 6293		17:10:10.2	-26:34:55.5			Star Cluster

Table 19 continued on next page

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
NGC 6304		17:14:32.3	-29:27:43.3			Star Cluster
NGC 6316		17:16:37.3	-28:08:24.4			Star Cluster
NGC 6325		17:17:59.1	-23:46:03.6			Star Cluster
NGC 6333	M9	17:19:11.8	-18:30:58.5			Star Cluster
NGC 6341	M92	17:17:07.4	+43:08:09.4			Star Cluster
NGC 6342		17:21:10.0	-19:35:15.6			Star Cluster
NGC 6352		17:25:29.1	-48:25:19.8			Star Cluster
NGC 6355		17:23:58.4	-26:21:10.2			Star Cluster
NGC 6356		17:23:35.0	-17:48:46.9			Star Cluster
NGC 6362		17:31:55.0	-67:02:54.0			Star Cluster
NGC 6366		17:27:44.2	-05:04:47.5			Star Cluster
NGC 6380	Ton 1	17:34:28.5	-39:04:10.3			Star Cluster
NGC 6388		17:36:17.2	-44:44:07.8			Star Cluster
NGC 6397		17:40:42.1	-53:40:27.6			Star Cluster
NGC 6401	$MWSC\ 2653$	17:38:36.5	-23:54:34.6			Star Cluster
NGC 6402	M 14	17:37:36.2	-03:14:45.3			Star Cluster
NGC 6426		17:44:54.7	+03:10:12.5			Star Cluster
NGC 6440		17:48:52.8	-20:21:37.5			Star Cluster
NGC 6441		17:50:13.1	-37:03:05.2			Star Cluster
NGC 6453		17:50:51.7	-34:35:54.5			Star Cluster
NGC 6496		17:59:03.7	-44:15:57.4			Star Cluster
NGC 6517		18:01:50.6	-08:57:31.6			Star Cluster
NGC 6522		18:03:34.1	-30:02:02.3			Star Cluster
NGC 6528		18:04:49.6	-30:03:20.8			Star Cluster
NGC 6535		18:03:50.5	-00:17:51.5			Star Cluster
NGC 6539		18:04:49.7	-07:35:09.1			Star Cluster
NGC 6540	Djorg 3 MWSC 2804	18:06:08.6	-27:45:55.0			Star Cluster
NGC 6541		18:08:02.4	-43:42:53.6			Star Cluster
NGC 6544		18:07:20.1	-24:59:53.6			Star Cluster

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
NGC 6553		18:09:17.5	-25:54:29.0			Star Cluster
NGC 6558		18:10:17.8	-31:45:52.2			Star Cluster
NGC 6569	ESO 456-77	18:13:38.8	-31:49:36.8			Star Cluster
NGC 6584		18:18:37.6	-52:12:56.8			Star Cluster
NGC 6624		18:23:40.5	-30:21:39.7			Star Cluster
NGC 6626	M 28	18:24:32.9	-24:52:11.4			Star Cluster
NGC 6637	M 69	18:31:23.1	-32:20:53.1			Star Cluster
NGC 6638	Gcl 95	18:30:56.1	-25:29:50.9			Star Cluster
NGC 6642	MWSC 2941	18:31:54.2	-23:28:32.2			Star Cluster
NGC 6652		18:35:45.6	-32:59:26.6			Star Cluster
NGC 6656	M 22	18:36:23.9	-23:54:17.1			Star Cluster
NGC 6681	M 70	18:43:12.8	-32:17:31.6			Star Cluster
NGC 6712		18:53:04.3	-08:42:21.5			Star Cluster
NGC 6715	M 54	18:55:03.3	-30:28:47.5			Star Cluster
NGC 6717	Palomar 9	18:55:06.0	-22:42:05.3			Star Cluster
NGC 6723		18:59:33.1	-36:37:56.1			Star Cluster
NGC 6749		19:05:15.4	+01:53:59.1			Star Cluster
NGC 6752		19:10:52.1	-59:59:04.4			Star Cluster
NGC 6760		19:11:12.1	+01:01:49.7			Star Cluster
NGC 6779	M 56	19:16:35.6	+30:11:00.5			Star Cluster
NGC 6809	M 55	19:39:59.7	-30:57:53.1			Star Cluster
NGC 6838	M 71	19:53:46.5	+18:46:45.1			Star Cluster
NGC 6864	M 75	20:06:04.7	-21:55:16.2			Star Cluster
NGC 6934		20:34:11.4	+07:24:16.1			Star Cluster
NGC 6981	M 72	20:53:27.7	-12:32:14.3			Star Cluster
NGC 7006		21:01:29.4	+16:11:14.4			Star Cluster
NGC 7078	M 15	21:29:58.3	+12:10:01.2			Star Cluster
NGC 7089	M 2	21:33:27.0	-00:49:23.7			Star Cluster
NGC 7099	M 30	21:40:22.1	-23:10:47.5			Star Cluster
NGC 7492		23:08:26.7	-15:36:41.3			Star Cluster

Table 19 continued on next page

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		deg	deg			
Palomar 1		03:33:20.0	+79:34:51.8			Star Cluster
Palomar 10		19:18:02.1	+18:34:18.0			Star Cluster
Palomar 11		19:45:14.4	-08:00:26.0			Star Cluster
Palomar 12		21:46:38.8	-21:15:09.4			Star Cluster
Palomar 5		15:16:04.6	-00:07:15.6			Star Cluster
Palomar 6	ESO 520-21	17:43:42.2	-26:13:30.0			Star Cluster
Palomar 8		18:41:30.5	-19:49:43.9			Star Cluster
Rup 106		12:38:40.2	-51:09:01.0			Star Cluster
UKS 1		17:54:27.2	-24:08:43.0			Star Cluster
NGC 5694		14:39:36.3	-26:32:19.6			Star Cluster
NGC 6229		16:46:58.9	+47:31:40.1			Star Cluster
NGC 2419		07:38:08.5	+38:52:55.0			Star Cluster
Palomar 13		23:06:44.4	+12:46:17.5	Wilson (1955)		Star Cluster
Palomar 2		04:46:05.9	+31:22:53.4	Abell (1955)		Star Cluster
Palomar 3		10:05:31.6	+00:04:18.0	Abell (1955)		Star Cluster
				Wilson (1955)		
Palomar 4		11:29:16.4	+28.58:24.1	Abell (1955)		Star Cluster
Palomar 15		16:59:51.0	-00:32:20.4	Zwicky (1959)		Star Cluster
Ton 2	ESO 333-16	17:36:10.1	-38:33:22.0	Pišmiš (1959)		Star Cluster
	Pismis 26					
	Tonantzintla 2					
Palomar 14		16:11:00.6	+14:57:28.0	Arp & van den Bergh (1960)		Star Cluster
Terzan 1	HP2	17:35:47.2	-30:28:54.4	Terzan (1966)		Star Cluster
	ESO 455-23					
	Haute-Provence 2					
	$MWSC\ 2635$					
Terzan 2	HP 3	17:27:33.1	-30:48:08.4	Terzan (1967)		Star Cluster
	ESO 454-29					
	MWSC~2600					
	Haute-Provence 3					

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	deg			
	BH 228					
Terzan 3		16:28:39.0	-35:20:23.4	Terzan (1968)		Star Cluster
Terzan 4	HP 4	17:30:39.0	-31:35:43.9	Terzan (1968)		Star Cluster
	Gcl 66.1					
Terzan 5	Terzan 11	17:48:04.8	-24:46:44.6	Terzan (1968)		Star Cluster
Terzan 6	HP 5	17:50:46.4	-31:16:31.4	Terzan (1968)		Star Cluster
	ESO 455-49					
	${\bf Haute\text{-}Provence}\ 5$					
	BH 249					
	MWSC 2719					
Terzan 7		19:17:43.9	-34:39:27.8	Terzan (1968)		Star Cluster
Terzan 8	ESO 398-SC 021	19:41:44.4	-33:59:58.1	Terzan (1968)		Star Cluster
Terzan 10	ESO 521-16	18:02:57.8	-26:04:01.0	Terzan (1971)		Star Cluster
	$MWSC\ 2793$					
Terzan 12	ESO 522-1	18:12:15.8	-22:44:31.0	Terzan (1971)		Star Cluster
	MWSC 2838					
Terzan 9	Gcl 80.1	18:01:38.8	-26:50:23.0	Terzan (1971)		Star Cluster
	MWSC 2778					
AM 1		03:55:02.3	-49:36:55.0	Lauberts (1976)		Star Cluster
Eridanus		04:24:44.5	-21:11:12.4	Cesarsky et al. (1977)		Star Cluster
Djorgobski 2	ESO456	18:01:49.1	-27:49:32.9	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	Lauberts et al. (1981)		Star Cluster
AM 4		13:56:21.4	-27:09:54.6	Madore & Arp (1982)		Star Cluster
Djorgobski 1	Djorg 1	17:47:28.7	-33:03:59.0	Djorgovski (1987)		Star Cluster
Pyxis	C J0907-372	09:07:56.9	-37:13:35.8	Weinberger (1995)		Star Cluster
				Da Costa (1995)		
				Irwin et al. (1995)		

Table 19 continued on next page

Table 19 (continued)

Name	Other Name	RA	DEC	Original Publication	Candidate?	Classification
		$\deg$	$\deg$			
2MASS GC-01		18:08:21.8	-19:49:47.0	Hurt et al. (2000)		Star Cluster
2MASS~GC-02		18:09:36.5	-20:46:44.0	Hurt et al. (2000)		Star Cluster
Whiting 1	WHI B0200-03	02:02:57.0	-03:15:10.0	Whiting et al. (2002)		
Glimpse 1	GLIMPSE-C01	18:48:49.7	-01:29:50.0	Kobulnicky et al. (2005)		
				Mercer et al. (2005)		
Glimpse 2	GLIMPSE-C02	18:18:30.5	-16:58:38.0	Mercer et al. (2005)		
	Mercer 3			Kurtev et al. (2008)		
				Strader & Kobulnicky (2008)		
FSR 1735	2MASS GC-03	16:52:10.6	-47:03:29.0	Froebrich et al. (2007)		Star Cluster

Nоте—

 Table 20. Properties of MW Harris catalog star clusters

Name	RA	DEC	$r_h$	$\epsilon$ $\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin		pc		kpc			
2MASS GC-01	272.0909	-19.8297	4.07		1.3	$12.64 \pm 0.40$	$3.4^{+0.7}_{-0.6}$	6.6	-6.1	a,b,c
$2MASS\ GC-02$	272.4021	-20.7789	1.39		0.3	$11.99^{+0.36}_{-0.40}$	$2.5^{+0.5}_{-0.4}$	8.7	-3.3	$_{\mathrm{a,b,c}}$
AM 1	58.7596	-49.6153	0.43		4.7	$20.38 \pm 0.06$	$118.9^{+3.4}_{-3.3}$	14.3	$-6.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
AM 4	209.0891	-27.1652	0.77		2.1	$17.31 \pm 0.07$	$29.0^{+1.0}_{-0.9}$	16.4	$-1.0\pm0.1$	$_{a,b,c}$
ARP 2	292.1838	-30.3556	1.70		4.5	$17.29 \pm 0.03$	$28.7 \pm 0.3$	11.3	$-6.0 \pm 0.0$	$_{a,b,c}$
BH 176	234.7810	-50.0527	0.90		1.3	15.91	15.2	11.6	-4.3	d
BH 261	273.5275	-28.6350	1.65		0.9	$13.93\pm0.09$	$6.1 \pm 0.3$	10.2	$-3.8 \pm 0.0$	$_{a,b,c}$
Djorgobski 1	266.8696	-33.0664	1.43		1.3	$14.97 \pm 0.14$	$9.9_{-0.6}^{+0.7}$	8.2	$-6.8 \pm 0.1$	$_{a,b,c}$
Djorgobski 2	270.4544	-27.8258	1.82		1.5	$14.71 \pm 0.04$	$8.8 \pm 0.2$	8.2	$-6.5 \pm 0.1$	$_{a,b,c}$
E 3	140.2378	-77.2819	1.92		1.4	$14.48 \pm 0.07$	$7.9_{-0.2}^{+0.3}$	10.9	$-3.6 \pm 0.0$	$_{a,b,c}$
ESO 452-SC11	249.8542	-28.3992	1.15		0.8	$14.34 \pm 0.06$	$7.4 \pm 0.2$	10.3	$-4.0\pm0.1$	$_{a,b,c}$
$ESO280\ SC06$	272.2750	-46.4233	1.15		2.2	$16.61 \pm 0.07$	$20.9_{-0.6}^{+0.7}$	11.7	$-4.9 \pm 0.2$	$_{\mathrm{a,b,e}}$
Eridanus	66.1856	-21.1868	0.55		4.3	$19.64 \pm 0.07$	$84.7^{+2.9}_{-2.8}$	14.2	$-5.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
FSR 1735	253.0442	-47.0581	0.79		0.7	$14.79 \pm 0.13$	$9.1 \pm 0.5$	7.9	$-6.9 \pm 0.1$	$_{a,b,c}$
Glimpse 1	282.2071	-1.4972	0.60		0.2	$12.46^{+0.33}_{-0.38}$	$3.1\pm0.5$	4.0	-8.4	f
Glimpse 2	274.6271	-16.9772	1.73		0.7	$13.30^{+0.31}_{-0.30}$	$4.6^{+0.7}_{-0.6}$	7.1	-6.2	$_{\mathrm{g,h}}$
HP 1	262.7717	-29.9817	1.52		1.0	$14.22\pm0.04$	$7.0 \pm 0.1$	7.6	$-6.6 \pm 0.1$	$_{a,b,c}$
IC 1257	261.7854	-7.0931	0.53		1.3	$17.12 \pm 0.12$	$26.6^{+1.5}_{-1.4}$	12.0	-5.2	$_{a,b,c}$
IC 1276	272.6844	-7.2076	2.42		1.0	$13.29 \pm 0.12$	$4.6^{+0.3}_{-0.2}$	6.6	$-6.7 \pm 0.1$	$_{a,b,c}$
IC 4499	225.0772	-82.2138	1.87		3.3	$16.38 \pm 0.03$	$18.9 \pm 0.3$	9.1	$-7.3 \pm 0.1$	$_{a,b,c}$
Liller 1	263.3523	-33.3896	0.55		0.4	$14.53\pm0.09$	$8.1^{+0.4}_{-0.3}$	5.5	$-9.0 \pm 0.2$	$_{a,b,c}$
Lynga 7	242.7652	-55.3178	1.70		1.2	$14.49 \pm 0.04$	$7.9 \pm 0.2$	7.6	$-6.9 \pm 0.1$	$_{a,b,c}$
NGC 104	6.0238	-72.0813	3.07		1.3	$13.28 \pm 0.01$	$4.5\pm0.0$	4.0	$-9.3 \pm 0.1$	$_{a,b,c}$
$NGC\ 1261$	48.0675	-55.2162	0.68		1.0	$16.07\pm0.03$	$16.4 \pm 0.2$	8.3	$-7.8 \pm 0.0$	$_{a,b,c}$
NGC 1851	78.5282	-40.0466	0.50		0.6	$15.39 \pm 0.02$	$12.0\pm0.1$	7.0	$-8.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 1904	81.0458	-24.5244	0.68		0.8	$15.58 \pm 0.03$	$13.1\pm0.2$	7.9	$-7.7 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 2298	102.2475	-36.0053	0.84		0.8	$14.96\pm0.04$	$9.8 \pm 0.2$	8.6	$-6.3 \pm 0.0$	$_{\mathrm{a,b,c}}$

Table 20 continued on next page

Table 20 (continued)

Name	RA	DEC	$r_h$	$\epsilon$ $\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin		pc		kpc			
NGC 2419	114.5353	38.8819	0.77		6.3	$19.73 \pm 0.06$	$88.5 \pm 2.4$	10.3	$-9.4 \pm 0.0$	a,b,c
NGC 2808	138.0129	-64.8635	0.84		0.8	$15.01\pm0.02$	$10.1\pm0.1$	5.5	$-9.6 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 288	13.1885	-26.5826	2.23		1.9	$14.77\pm0.02$	$9.0 \pm 0.1$	8.0	$-6.8 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~3201	154.4034	-46.4125	3.75		1.6	$13.38 \pm 0.02$	$4.7 \pm 0.0$	6.0	$-7.3 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~362	15.8094	-70.8488	0.86		0.7	$14.73\pm0.02$	$8.8 \pm 0.1$	6.3	$-8.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 4147	182.5263	18.5426	0.47		0.8	$16.34\pm0.03$	$18.5 \pm 0.2$	10.2	$-6.1 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 4372	186.4391	-72.6591	3.47		1.8	$13.78\pm0.08$	$5.7 \pm 0.2$	6.2	$-7.6 \pm 0.1$	$_{\mathrm{a,b,c}}$
$NGC\ 4590$	189.8666	-26.7441	1.47		1.4	$15.09\pm0.02$	$10.4 \pm 0.1$	7.8	$-7.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 4833	194.8913	-70.8765	1.73		1.0	$14.06\pm0.03$	$6.5 \pm 0.1$	6.2	$-7.9 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~5024	198.2302	18.1682	1.20		2.1	$16.34\pm0.02$	$18.5 \pm 0.2$	7.6	$-8.7 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5053	199.1129	17.7003	2.43		3.9	$16.22\pm0.03$	$17.5 \pm 0.2$	9.9	$-6.3 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5139	201.6970	-47.4795	4.79		2.4	$13.67\pm0.02$	$5.4 \pm 0.0$	3.1	$-10.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5272	205.5484	28.3773	1.15		1.1	$15.04\pm0.02$	$10.2 \pm 0.1$	6.4	$-8.7 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5286	206.6117	-51.3742	0.73		0.8	$15.23\pm0.03$	$11.1\pm0.1$	6.6	$-8.6 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5466	211.3637	28.5344	2.04		3.0	$16.04\pm0.02$	$16.1 \pm 0.2$	9.3	$-6.7 \pm 0.0$	$_{a,b,c}$
NGC 5634	217.4053	-5.9764	0.61		1.5	$17.07\pm0.05$	$26.0 \pm 0.6$	9.4	$-7.7 \pm 0.1$	$_{a,b,c}$
NGC 5694	219.9012	-26.5388	0.30		1.0	$17.71 \pm 0.05$	$34.8 \pm 0.7$	9.6	$-8.1 \pm 0.1$	$_{a,b,c}$
NGC 5897	229.3517	-21.0101	2.09		2.4	$15.49 \pm 0.04$	$12.5 \pm 0.2$	8.2	$-7.3 \pm 0.0$	$_{a,b,c}$
NGC 5897	225.9942	-33.0681	0.49		1.4	$17.51 \pm 0.04$	$31.7 \pm 0.6$	8.4	$-9.1 \pm 0.1$	$_{a,b,c}$
NGC 5904	229.6384	2.0810	1.62		1.1	$14.37 \pm 0.02$	$7.5 \pm 0.1$	5.9	$-8.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5927	232.0029	-50.6730	1.29		1.0	$14.59 \pm 0.03$	$8.3 \pm 0.1$	6.3	$-8.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 5946	233.8691	-50.6597	0.70		0.6	$14.92\pm0.12$	$9.6 \pm 0.5$	7.8	$-7.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 5986	236.5125	-37.7864	0.93		0.9	$15.11\pm0.03$	$10.5\pm0.1$	6.8	$-8.3 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~6093	244.2600	-22.9761	0.64		0.6	$15.07\pm0.02$	$10.3 \pm 0.1$	6.9	$-8.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6101	246.4505	-72.2022	2.28		3.1	$15.80\pm0.03$	$14.4 \pm 0.2$	8.5	$-7.3 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6121	245.8967	-26.5257	4.65		0.8	$11.34 \pm 0.02$	$1.9 \pm 0.0$	4.3	$-7.0\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6139	246.9185	-38.8488	0.63		0.6	$15.01\pm0.10$	$10.0^{+0.5}_{-0.4}$	6.7	$-8.3\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6144	246.8078	-26.0235	1.56		1.2	$14.56\pm0.03$	$8.2 \pm 0.1$	8.1	$-6.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6171	248.1328	-13.0538	1.58		0.8	$13.75\pm0.03$	$5.6 \pm 0.1$	7.3	$-6.5 \pm 0.0$	$_{a,b,c}$
NGC~6205	250.4218	36.4599	1.61		1.1	$14.35\pm0.02$	$7.4 \pm 0.1$	5.8	$-8.6 \pm 0.0$	$_{\mathrm{a,b,c}}$

Name	RA	DEC	$r_h$	$\epsilon$ $\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin		pc		kpc			
NGC 6218	251.8091	-1.9485	1.83		0.9	$13.54 \pm 0.02$	$5.1 \pm 0.0$	6.5	$-7.0 \pm 0.0$	a,b,c
NGC 6229	251.7452	47.5278	0.36		1.0	$17.39 \pm 0.03$	$30.1 \pm 0.5$	9.3	$-8.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6235	253.3557	-22.1774	0.97		1.1	$15.38 \pm 0.07$	$11.9 \pm 0.4$	8.7	$-6.7 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6254	254.2877	-4.1003	2.03		1.0	$13.52\pm0.03$	$5.1 \pm 0.1$	5.8	$-7.8 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6256	254.8861	-37.1210	1.40		0.9	$14.30\pm0.09$	$7.2 \pm 0.3$	7.2	$-7.1 \pm 0.1$	$_{a,b,c}$
NGC 6266	255.3042	-30.1134	0.99		0.6	$14.04 \pm 0.04$	$6.4 \pm 0.1$	5.2	$-8.9 \pm 0.1$	$_{a,b,c}$
NGC 6273	255.6575	-26.2680	1.30		1.0	$14.61 \pm 0.04$	$8.3 \pm 0.2$	5.7	$-8.9 \pm 0.0$	$_{a,b,c}$
NGC 6284	256.1201	-24.7648	0.71		0.9	$15.76\pm0.06$	$14.2 \pm 0.4$	8.1	$-7.6 \pm 0.1$	$_{a,b,c}$
NGC 6287	256.2889	-22.7080	0.84		0.6	$14.50\pm0.10$	$7.9 \pm 0.4$	7.5	$-6.9 \pm 0.1$	$_{a,b,c}$
NGC 6293	257.5425	-26.5821	0.83		0.7	$14.82\pm0.07$	$9.2 \pm 0.3$	7.4	$-7.4 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6304	258.6344	-29.4620	1.02		0.6	$13.95\pm0.05$	$6.2 \pm 0.1$	6.5	$-7.4 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6316	259.1554	-28.1401	0.97		1.0	$15.24^{+0.07}_{-0.08}$	$11.2 \pm 0.4$	7.3	$-7.9 \pm 0.2$	$_{a,b,c}$
NGC 6325	259.4963	-23.7677	0.79		0.6	$14.38 \pm 0.09$	$7.5 \pm 0.3$	8.1	$-6.3 \pm 0.0$	$_{a,b,c}$
NGC 6333	259.7991	-18.5163	1.13		0.9	$14.60\pm0.04$	$8.3 \pm 0.1$	6.5	$-8.1 \pm 0.0$	$_{a,b,c}$
NGC 6341	259.2808	43.1359	0.82		0.6	$14.65\pm0.02$	$8.5 \pm 0.1$	6.5	$-8.2 \pm 0.0$	$_{a,b,c}$
NGC 6342	260.2916	-19.5877	0.64		0.5	$14.52\pm0.06$	$8.0 \pm 0.2$	8.4	$-6.1 \pm 0.1$	$_{a,b,c}$
NGC 6352	261.3713	-48.4222	2.00		1.0	$13.72\pm0.03$	$5.5 \pm 0.1$	7.4	$-6.3 \pm 0.0$	$_{a,b,c}$
NGC 6355	260.9935	-26.3528	0.94		0.8	$14.69 \pm 0.06$	$8.7 \pm 0.2$	7.5	$-7.1\pm0.1$	$_{a,b,c}$
NGC 6356	260.8958	-17.8130	0.88		1.3	$15.97\pm0.13$	$15.7 \pm 0.9$	7.5	$-8.5\pm0.1$	$_{a,b,c}$
NGC 6362	262.9791	-67.0483	2.31		1.6	$14.42\pm0.02$	$7.6 \pm 0.1$	7.2	$-7.2\pm0.0$	$_{a,b,c}$
NGC 6366	261.9344	-5.0799	3.78		1.2	$12.69 \pm 0.03$	$3.4 \pm 0.1$	6.7	$-6.0 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6380	263.6186	-39.0695	1.12		1.0	$14.91 \pm 0.07$	$9.6 \pm 0.3$	7.1	$-7.8 \pm 0.1$	$_{a,b,c}$
NGC 6388	264.0718	-44.7355	0.80		0.8	$15.24 \pm 0.03$	$11.2 \pm 0.2$	5.7	$-9.6 \pm 0.0$	$_{a,b,c}$
NGC 6397	265.1754	-53.6743	3.01		0.7	$11.97 \pm 0.02$	$2.5\pm0.0$	4.9	$-7.1\pm0.0$	$_{a,b,c}$
NGC 6401	264.6522	-23.9096	1.07		0.8	$14.53 \pm 0.06$	$8.1 \pm 0.2$	7.1	$-7.4 \pm 0.1$	$_{a,b,c}$
NGC 6402	264.4007	-3.2459	1.33		1.1	$14.81 \pm 0.06$	$9.1^{+0.3}_{-0.2}$	6.0	$-8.8 \pm 0.1$	$_{a,b,c}$
NGC 6426	266.2280	3.1701	0.86		1.6	$16.58\pm0.04$	$20.7_{-0.3}^{+0.4}$	10.0	$-6.6 \pm 0.0$	$_{a,b,c}$
NGC 6440	267.2202	-20.3604	0.55		0.4	$14.58 \pm 0.06$	$8.2 \pm 0.2$	5.7	$-8.9 \pm 0.1$	$_{a,b,c}$
NGC 6441	267.5544	-37.0514	0.58		0.7	$15.52\pm0.03$	$12.7 \pm 0.2$	5.7	$-9.9 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6453	267.7155	-34.5985	0.94		0.9	$15.02\pm0.05$	$10.1\pm0.2$	7.2	$-7.8 \pm 0.1$	$_{\mathrm{a,b,c}}$

Table 20 continued on next page

Table 20 (continued)

Name	RA	DEC	$r_h$	$\epsilon$	$\theta$	$r_h$	$(m - M)_0$	d	V	$M_V$	Ref
	deg	deg	arcmin			pc		kpc			
NGC 6496	269.7654	-44.2659	1.52			1.4	$14.92 \pm 0.03$	$9.6^{+0.2}_{-0.1}$	8.2	$-6.7 \pm 0.1$	a,b,c
NGC 6517	270.4608	-8.9588	0.63			0.5	$14.82\pm0.13$	$9.2^{+0.6}_{-0.5}$	7.4	$-7.5 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC~6522	270.8920	-30.0340	1.17			0.8	$14.31 \pm 0.06$	$7.3 \pm 0.2$	6.8	$-7.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~6528	271.2067	-30.0558	1.08			0.8	$14.47\pm0.07$	$7.8 \pm 0.2$	8.0	$-6.4 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6535	270.9604	-0.2976	1.46			0.9	$14.02\pm0.04$	$6.4 \pm 0.1$	9.1	$-5.0 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6539	271.2073	-7.5859	1.55			1.2	$14.56\pm0.10$	$8.2 \pm 0.4$	6.8	$-7.8 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~6540	271.5357	-27.7653	1.54			0.8	$13.86\pm0.10$	$5.9 \pm 0.3$	7.7	$-6.2 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6541	272.0098	-43.7149	1.03			0.7	$14.41 \pm 0.03$	$7.6 \pm 0.1$	6.2	$-8.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6544	271.8338	-24.9982	2.05			0.5	$12.06\pm0.05$	$2.6\pm0.1$	5.5	$-6.6 \pm 0.2$	$_{\mathrm{a,b,c}}$
NGC 6553	272.3230	-25.9081	1.48			0.7	$13.63 \pm 0.05$	$5.3 \pm 0.1$	6.1	$-7.5 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6558	272.5740	-31.7645	0.68			0.5	$14.37 \pm 0.08$	$7.5 \pm 0.3$	8.3	$-6.1\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6569	273.4117	-31.8269	$0.68^{+0.14}_{-0.17}$			$2.1 \pm 0.5$	$15.11 \pm 0.05$	$10.5\pm0.3$	7.4	$-7.7 \pm 0.0$	$_{\rm b,c,i}$
NGC 6584	274.6566	-52.2158	0.88			1.1	$15.67\pm0.03$	$13.6 \pm 0.2$	8.3	$-7.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC~6624	275.9188	-30.3610	0.73			0.5	$14.52\pm0.03$	$8.0\pm0.1$	7.2	$-7.4 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC~6626	276.1370	-24.8698	1.03			0.5	$13.65\pm0.04$	$5.4 \pm 0.1$	5.6	$-8.0\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6637	277.8463	-32.3481	0.93			0.8	$14.75\pm0.03$	$8.9 \pm 0.1$	7.2	$-7.6\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6638	277.7337	-25.4975	0.65			0.6	$14.95^{+0.08}_{-0.07}$	$9.8 \pm 0.3$	7.5	$-7.4\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6642	277.9760	-23.4756	0.59			0.4	$14.53 \pm 0.05$	$8.1 \pm 0.2$	8.2	$-6.3\pm0.1$	$_{\mathrm{a,b,c}}$
NGC~6652	278.9401	-32.9907	0.53			0.5	$14.88 \pm 0.03$	$9.5 \pm 0.1$	8.6	$-6.2\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6656	279.0998	-23.9047	3.31			1.0	$12.60\pm0.02$	$3.3\pm0.0$	4.0	$-8.6\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6681	280.8032	-32.2921	0.79			0.7	$14.86\pm0.03$	$9.4 \pm 0.1$	7.7	$-7.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6712	283.2680	-8.7060	1.19			0.8	$14.34 \pm 0.07$	$7.4 \pm 0.2$	7.2	$-7.1\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6715	283.7639	-30.4799	0.47			1.1	$17.10 \pm 0.03$	$26.3 \pm 0.3$	7.1	$-10.0\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6717	283.7752	-22.7015	1.20			0.8	$14.38 \pm 0.04$	$7.5 \pm 0.1$	8.3	$-6.1\pm0.0$	$_{\mathrm{a,b,c}}$
NGC 6723	284.8881	-36.6322	1.51			1.2	$14.59 \pm 0.03$	$8.3 \pm 0.1$	7.1	$-7.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6749	286.3141	1.8998	1.89			1.3	$14.40\pm0.06$	$7.6 \pm 0.2$	6.3	$-8.1\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6752	287.7171	-59.9846	2.39			0.9	$13.08\pm0.02$	$4.1\pm0.0$	5.2	$-7.9 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 6760	287.8003	1.0305	1.37			1.1	$14.62\pm0.11$	$8.4 \pm 0.4$	6.5	$-8.1\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6779	289.1482	30.1835	0.98			0.9	$15.09\pm0.03$	$10.4 \pm 0.1$	7.3	$-7.7\pm0.1$	$_{\mathrm{a,b,c}}$
NGC 6809	294.9988	-30.9647	2.96			1.5	$13.64\pm0.02$	$5.3 \pm 0.1$	6.0	$-7.6 \pm 0.0$	a,b,c

Name	RA	DEC	$r_h$	$\epsilon$ (	9	$r_h$	$(m - M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin			pc		kpc			
NGC 6838	298.4437	18.7792	2.85			1.1	$13.01 \pm 0.03$	$4.0^{+0.1}_{-0.0}$	6.4	$-6.6 \pm 0.0$	a,b,c
NGC 6864	301.5198	-21.9212	0.34			0.6	$16.56\pm0.05$	$20.5_{-0.4}^{+0.5}$	8.0	$-8.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6934	308.5474	7.4045	0.65			0.9	$15.98 \pm 0.02$	$15.7 \pm 0.2$	8.4	$-7.6 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 6981	313.3654	-12.5373	0.85			1.3	$16.11 \pm 0.02$	$16.7 \pm 0.2$	9.2	$-6.9 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 7006	315.3726	16.1873	0.38			1.4	$17.97 \pm 0.03$	$39.3 \pm 0.6$	10.5	$-7.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 7078	322.4930	12.1670	0.65			0.6	$15.15\pm0.02$	$10.7\pm0.1$	6.0	$-9.2 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 7089	323.3626	-0.8233	0.90			1.0	$15.34 \pm 0.02$	$11.7 \pm 0.1$	6.3	$-9.1 \pm 0.0$	$_{\mathrm{a,b,c}}$
NGC 7099	325.0921	-23.1799	1.03			0.8	$14.64 \pm 0.02$	$8.5\pm0.1$	7.3	$-7.4 \pm 0.1$	$_{\mathrm{a,b,c}}$
NGC 7492	347.1112	-15.6115	1.07			2.4	$16.94 \pm 0.05$	$24.4 \pm 0.6$	11.1	$-5.9 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 1	53.3335	79.5811	0.62			0.6	$15.24 \pm 0.06$	$11.2\pm0.3$	13.5	$-1.8 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 10	289.5087	18.5717	1.55			1.3	$14.76^{+0.29}_{-0.28}$	$8.9^{+1.3}_{-1.1}$	7.2	$-7.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 11	296.3100	-8.0072	1.50			1.9	$15.73 \pm 0.08$	$14.0 \pm 0.5$	10.6	$-5.1 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 12	326.6618	-21.2526	1.31			2.2	$16.34 \pm 0.04$	$18.5 \pm 0.3$	11.9	$-4.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 13	346.6852	12.7715	1.72			3.7	$16.85\pm0.04$	$23.5 \pm 0.4$	13.7	$-3.1\pm0.1$	$_{\mathrm{a,b,c}}$
Palomar 14	242.7525	14.9578	1.29			8.8	$19.33 \pm 0.05$	$73.6 \pm 1.6$	14.0	$-5.3 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 15	254.9626	-0.5390	1.56			6.4	$18.22 \pm 0.06$	$44.1^{+1.2}_{-1.1}$	12.7	$-5.6 \pm 0.1$	$_{\mathrm{a,b,c}}$
Palomar 2	71.5246	31.3815	0.63			1.5	$17.09 \pm 0.11$	$26.2 \pm 1.3$	8.8	$-8.3 \pm 0.1$	$_{\mathrm{a,b,c}}$
Palomar 3	151.3816	0.0717	0.73			6.4	$19.89 \pm 0.07$	$94.8^{+3.3}_{-3.2}$	14.4	$-5.4 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 4	172.3183	28.9734	0.54			5.1	$20.03 \pm 0.06$	$101.4^{+2.6}_{-2.5}$	14.2	$-5.9 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 5	229.0192	-0.1210	3.20			6.5	$16.71 \pm 0.05$	$21.9 \pm 0.5$	11.8	$-4.9 \pm 0.0$	$_{\mathrm{a,b,c}}$
Palomar 6	265.9258	-26.2250	1.11			0.7	$14.24 \pm 0.14$	$7.0_{-0.4}^{+0.5}$	7.1	$-7.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
Palomar 8	280.3773	-19.8289	1.05			1.1	$15.27 \pm 0.12$	$11.3^{+0.7}_{-0.6}$	9.1	$-6.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
Pyxis	136.9869	-37.2266	1.60			5.4	$17.81 \pm 0.04$	$36.5 \pm 0.7$	12.3	$-5.5 \pm 0.0$	$_{\mathrm{a,b,c}}$
Rup 106	189.6675	-51.1503	1.26			2.4	$16.58 \pm 0.04$	$20.7 \pm 0.4$	10.4	$-6.2 \pm 0.0$	$_{\mathrm{a,b,c}}$
Terzan 1	263.9467	-30.4818	0.89			0.5	$13.77 \pm 0.07$	$5.7 \pm 0.2$	6.3	$-7.5 \pm 0.1$	$_{\mathrm{a,b,c}}$
Terzan 10	270.7408	-26.0669	1.16			1.1	$15.05\pm0.09$	$10.2\pm0.4$	8.0	$-7.0 \pm 0.1$	$_{\mathrm{a,b,c}}$
Terzan 12	273.0658	-22.7419	1.18			0.6	$13.57 \pm 0.16$	$5.2 \pm 0.4$	7.5	$-6.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
Terzan 2	261.8879	-30.8023	1.06			0.8	$14.45\pm0.09$	$7.8 \pm 0.3$	7.3	$-7.1 \pm 0.1$	$_{\mathrm{a,b,c}}$
Terzan 3	247.1625	-35.3398	2.11			1.5	$14.42\pm0.09$	$7.6 \pm 0.3$	8.3	$-6.1 \pm 0.2$	$_{\mathrm{a,b,c}}$
Terzan 4	262.6625	-31.5955	1.48			1.0	$14.40\pm0.09$	$7.6 \pm 0.3$	7.1	$-7.3 \pm 0.3$	$_{\mathrm{a,b,c}}$

Table 20 continued on next page

Table 20 (continued)

Name	RA	DEC	$r_h$	$\epsilon$ $\theta$	$r_h$	$(m-M)_0$	d	V	$M_V$	Ref
	$\deg$	$\deg$	arcmin		pc		kpc			
Terzan 5	267.0202	-24.7791	0.92		0.6	$14.10 \pm 0.05$	$6.6^{+0.2}_{-0.1}$	5.0	$-9.1 \pm 0.1$	a,b,c
Terzan 6	267.6932	-31.2754	0.50		0.3	$14.31 \pm 0.10$	$7.3^{+0.4}_{-0.3}$	7.2	$-7.1 \pm 0.1$	$_{a,b,c}$
Terzan 7	289.4330	-34.6577	0.90		2.0	$16.93\pm0.04$	$24.3 \pm 0.5$	11.6	$-5.3 \pm 0.0$	$_{a,b,c}$
Terzan 8	295.4350	-33.9995	1.89		4.8	$17.20 \pm 0.03$	$27.5 \pm 0.4$	10.7	$-6.5 \pm 0.0$	$_{a,b,c}$
Terzan 9	270.4117	-26.8397	0.99		0.5	$13.81 \pm 0.13$	$5.8^{+0.4}_{-0.3}$	7.2	$-6.6 \pm 0.1$	$_{a,b,c}$
Ton 2	264.0420	-38.5561	1.41		0.9	$14.22\pm0.10$	$7.0 \pm 0.3$	7.4	$-6.8 \pm 0.1$	$_{a,b,c}$
UKS 1	268.6133	-24.1453	0.66		1.0	$15.96\pm0.08$	$15.6^{+0.6}_{-0.5}$	9.2	-6.8	$_{a,b,c}$
Whiting 1	30.7375	-3.2528	1.06		3.0	$17.43 \pm 0.08$	$30.6^{+1.2}_{-1.1}$	13.2	$-4.2 \pm 0.1$	$_{a,b,c}$

NOTE— Citations: (a) Baumgardt & Hilker (2018) (b) Baumgardt et al. (2020) (c) Baumgardt & Vasiliev (2021) (d) Harris (1996) (e) Simpson (2018) (f) Kobulnicky et al. (2005) (g) Kurtev et al. (2008) (h) Strader & Kobulnicky (2008) (i) Pallanca et al. (2023)

Table 21. Properties of MW Harris catalog star clusters

Name	1	h	ar.		[Fo/H]	<u> </u>		440	Ref
Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	nei
	deg	deg	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			mas yr <sup>-1</sup>	mas yr <sup>-1</sup>	
2MASS GC-01	10.4710	0.1001	$-31.3 \pm 0.5$						$\mathbf{a}$
2MASS GC-02	9.7821	-0.6152	$-87.0 \pm 7.0$						b
AM 1	258.3613	-48.4707	$118.0\pm14.1$		-1.70		$0.291\pm0.107$	$-0.177 \pm 0.086$	$_{a,c}$
AM 4	320.2830	33.5098	$151.2 \pm 2.9$		-1.30		$-0.291 \pm 0.445$	$-2.512 \pm 0.344$	$_{\mathrm{a,c}}$
ARP 2	8.5454	-20.7854	$122.6 \pm 0.3$		-1.75		$-2.331 \pm 0.031$	$-1.475 \pm 0.029$	$_{\mathrm{a,c}}$
BH 176	328.4131	4.3366	$90.3 \pm 0.3$		0.00		$-3.989 \pm 0.029$	$-3.057 \pm 0.029$	$_{\mathrm{a,c}}$
BH 261	3.3617	-5.2704	$-61.0 \pm 2.6$	$6.10 \pm 1.90$	$-1.07^{+0.11}_{-0.10}$	< 0.38	$3.566\pm0.043$	$-3.590 \pm 0.037$	$_{ m d,c}$
Djorgobski 1	356.6750	-2.4836	$-359.2 \pm 1.6$		-1.51		$-4.693 \pm 0.046$	$-8.468 \pm 0.041$	$_{\mathrm{a,c}}$
Djorgobski 2	2.7635	-2.5083	$-149.8\pm1.1$		$-1.05\pm0.08$		$0.662\pm0.042$	$-2.983 \pm 0.037$	$_{\mathrm{a,c}}$
E 3	292.2682	-19.0170	$11.7 \pm 0.3$		-0.83		$-2.727 \pm 0.027$	$7.083\pm0.027$	$_{\mathrm{a,c}}$
ESO 452-SC11	351.9094	12.0976	$16.4 \pm 0.4$		-1.50		$-1.423 \pm 0.031$	$-6.472 \pm 0.030$	$_{\mathrm{a,c}}$
$ESO280\ SC06$	346.8985	-12.5710	$92.5 \pm 2.0$		$-2.48^{+0.06}_{-0.11}$		$-0.688 \pm 0.039$	$-2.777 \pm 0.033$	$_{\mathrm{e,c}}$
Eridanus	218.1060	-41.3320	$-23.1\pm0.7$		-1.43		$0.510\pm0.039$	$-0.301 \pm 0.041$	$_{\mathrm{a,c}}$
FSR 1735	339.1876	-1.8532	$-69.8 \pm 4.9$				$-4.439 \pm 0.054$	$-1.534 \pm 0.048$	$_{\mathrm{a,c}}$
Glimpse 1	31.3020	-0.1022							
Glimpse 2	14.1277	-0.6452							
HP 1	357.4252	2.1150	$39.8 \pm 1.2$		0.10		$2.523 \pm 0.039$	$-10.093 \pm 0.037$	$_{\mathrm{a,c}}$
IC 1257	16.5278	15.1450	$-138.0\pm2.0$		-1.70		$-1.007 \pm 0.040$	$-1.492 \pm 0.032$	$_{\mathrm{a,c}}$
IC 1276	21.8321	5.6683	$155.1 \pm 0.7$		-0.75		$-2.553 \pm 0.026$	$-4.568 \pm 0.026$	$_{\mathrm{a,c}}$
IC 4499	307.3537	-20.4734	$38.4 \pm 0.3$		0.12		$0.466\pm0.025$	$-0.489 \pm 0.025$	$_{\mathrm{a,c}}$
Liller 1	354.8403	-0.1606	$60.4 \pm 2.4$		-0.33		$-5.403 \pm 0.109$	$-7.431 \pm 0.077$	$_{\mathrm{a,c}}$
Lynga 7	328.7691	-2.7973	$17.9 \pm 0.8$		-1.01		$-3.851 \pm 0.027$	$-7.050 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 104	305.8947	-44.8893	$-17.4 \pm 0.2$		-0.72		$5.252 \pm 0.021$	$-2.551 \pm 0.021$	$_{\mathrm{a,c}}$
NGC 1261	270.5387	-52.1244	$71.3 \pm 0.2$		-1.27		$1.596 \pm 0.025$	$-2.064 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 1851	244.5132	-35.0360	$321.4 \pm 1.6$		-1.18		$2.145 \pm 0.024$	$-0.650 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 1904	227.2299	-29.3501	$205.8 \pm 0.2$		-1.60		$2.469 \pm 0.025$	$-1.594 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 2298	245.6286	-16.0064	$147.2 \pm 0.6$		-1.92		$3.320\pm0.025$	$-2.175 \pm 0.026$	$_{\mathrm{a,c}}$

Table 21 continued on next page

Table 21 (continued)

Name	l deg	b deg	$v_{ m los}$ km s <sup>-1</sup>	$\sigma_{ m los}$ km s <sup>-1</sup>	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{\alpha\star}$ mas yr <sup>-1</sup>	$\mu_{\delta}$ mas yr <sup>-1</sup>	Ref
NGC 2419	180.3696	25.2415	$-21.1 \pm 0.3$		-2.15		$0.007 \pm 0.028$	$-0.523 \pm 0.026$	a,c
NGC 2808	282.1930	-11.2526	$103.6 \pm 0.3$		-1.14		$0.994 \pm 0.024$	$0.273 \pm 0.024$	$_{ m a,c}$
NGC 288	151.2852	-89.3804	$-44.5 \pm 0.1$		-1.32		$4.164 \pm 0.024$	$-5.705 \pm 0.024$	$_{ m a,c}$
NGC 3201	277.2288	8.6404	$493.6 \pm 0.2$		-1.59		$8.348 \pm 0.022$	$-1.958 \pm 0.022$	$_{ m a,c}$
NGC 362	301.5330	-46.2474	$223.1 \pm 0.3$		-1.26		$6.694 \pm 0.025$	$-2.535 \pm 0.024$	$_{ m a,c}$
NGC 4147	252.8483	77.1895	$179.3 \pm 0.3$		-1.80		$-1.707 \pm 0.027$	$-2.090 \pm 0.027$	$_{ m a,c}$
NGC 4372	300.9932	-9.8841	$75.6 \pm 0.3$		-2.17		$-6.409 \pm 0.024$	$3.297 \pm 0.024$	$_{ m a,c}$
NGC 4590	299.6258	36.0508	$-93.1 \pm 0.2$		-2.23		$-2.739 \pm 0.024$	$1.779 \pm 0.024$	$_{ m a,c}$
NGC 4833	303.6040	-8.0154	$202.0 \pm 0.4$		-1.85		$-8.377 \pm 0.025$	$-0.963 \pm 0.025$	$_{ m a,c}$
NGC 5024	332.9630	79.7642	$-63.4 \pm 0.2$		-2.10		$-0.133 \pm 0.024$	$-1.331 \pm 0.024$	$_{ m a,c}$
NGC 5053	335.6988	78.9461	$42.8 \pm 0.2$		-2.27		$-0.329 \pm 0.025$	$-1.213 \pm 0.025$	$_{ m a,c}$
NGC 5139	309.1020	14.9683	$232.8 \pm 0.2$		-1.53		$-3.250 \pm 0.022$	$-6.746 \pm 0.022$	$_{ m a,c}$
NGC 5272	42.2169	78.7069	$-147.2 \pm 0.3$		-1.50		$-0.152 \pm 0.023$	$-2.670 \pm 0.022$	$_{ m a,c}$
NGC 5286	311.6142	10.5678	$62.4 \pm 0.4$		-1.69		$0.198 \pm 0.025$	$-0.153 \pm 0.025$	$_{ m a,c}$
NGC 5466	42.1502	73.5922	$106.8 \pm 0.2$		-1.98		$-5.342 \pm 0.025$	$-0.822 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 5634	342.2097	49.2603	$-16.1 \pm 0.6$		-1.88		$-1.692 \pm 0.027$	$-1.478 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 5694	331.0556	30.3600	$-139.6 \pm 0.5$		-1.98		$-0.464 \pm 0.029$	$-1.105 \pm 0.029$	$_{\mathrm{a,c}}$
NGC 5897	342.9460	30.2943	$101.3 \pm 0.2$		-1.90		$-5.422 \pm 0.025$	$-3.393 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 5897	332.5549	22.0705	$-25.2 \pm 0.5$		-1.91		$-1.189 \pm 0.026$	$-2.234 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 5904	3.8587	46.7964	$53.5 \pm 0.2$		-1.29		$4.086 \pm 0.023$	$-9.870 \pm 0.023$	$_{\mathrm{a,c}}$
NGC 5927	326.6041	4.8598	$-104.1 \pm 0.3$		-0.49		$-5.056 \pm 0.025$	$-3.217 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 5946	327.5828	4.1909	$137.6 \pm 0.9$		-1.29		$-5.331 \pm 0.028$	$-1.657 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 5986	337.0222	13.2684	$101.2 \pm 0.4$		-1.59		$-4.192 \pm 0.026$	$-4.568 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6093	352.6732	19.4630	$10.9 \pm 0.4$		-1.75		$-2.934 \pm 0.027$	$-5.578 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6101	317.7461	-15.8248	$366.3 \pm 0.3$		-1.98		$1.756 \pm 0.024$	$-0.258 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6121	350.9729	15.9722	$71.2 \pm 0.1$		-1.16		$-12.514 \pm 0.023$	$-19.022 \pm 0.023$	$_{\mathrm{a,c}}$
NGC 6139	342.3659	6.9388	$24.4 \pm 0.9$		-1.65		$-6.081 \pm 0.027$	$-2.711 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6144	351.9289	15.7006	$194.8 \pm 0.6$		-1.76		$-1.744 \pm 0.026$	$-2.607 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6171	3.3733	23.0106	$-34.7 \pm 0.2$		-1.02		$-1.939 \pm 0.025$	$-5.979 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6205	59.0074	40.9129	$-244.9 \pm 0.3$		-1.53		$-3.149 \pm 0.023$	$-2.574 \pm 0.023$	$_{\mathrm{a,c}}$

Table 21 continued on next page

Table 21 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	[Fe/H]	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_\delta$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	${\rm km~s^{-1}}$			${ m mas~yr^{-1}}$	${\rm mas~yr^{-1}}$	
NGC 6218	15.7152	26.3133	$-41.7 \pm 0.1$		-1.37		$-0.191 \pm 0.024$	$-6.802 \pm 0.024$	$_{ m a,c}$
NGC 6229	73.6386	40.3063	$-137.9 \pm 0.7$		-1.47		$-1.171 \pm 0.026$	$-0.467 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6235	358.9178	13.5182	$126.7 \pm 0.3$		-1.28		$-3.931 \pm 0.027$	$-7.587 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6254	15.1371	23.0760	$74.2 \pm 0.2$		-1.56		$-4.758 \pm 0.024$	$-6.597 \pm 0.024$	$_{\mathrm{a,c}}$
NGC~6256	347.7920	3.3067	$-99.8 \pm 0.7$		-1.02		$-3.715 \pm 0.031$	$-1.637 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6266	353.5746	7.3178	$-74.0 \pm 0.7$		-1.18		$-4.978 \pm 0.026$	$-2.947 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6273	356.8689	9.3823	$145.5 \pm 0.6$		-1.74		$-3.249 \pm 0.026$	$1.660\pm0.025$	$_{\mathrm{a,c}}$
NGC 6284	358.3472	9.9390	$28.6 \pm 0.7$		-1.26		$-3.200 \pm 0.029$	$-2.002 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6287	0.1316	11.0233	$-294.7\pm1.6$		-2.10		$-5.010 \pm 0.029$	$-1.883 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6293	357.6202	7.8343	$-143.7\pm0.4$		-1.99		$0.870\pm0.028$	$-4.326 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6304	355.8256	5.3755	$-108.6\pm0.4$		-0.45		$-4.070 \pm 0.029$	$-1.088 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6316	357.1754	5.7645	$99.7 \pm 0.8$		-0.45		$-4.969 \pm 0.031$	$-4.592 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6325	0.9715	8.0029	$29.5 \pm 0.6$		-1.25		$-8.289 \pm 0.030$	$-9.000 \pm 0.029$	$_{\mathrm{a,c}}$
NGC 6333	5.5444	10.7051	$310.8 \pm 2.1$		-1.77		$-2.180 \pm 0.026$	$-3.222 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6341	68.3384	34.8589	$-120.5\pm0.3$		-2.31		$-4.935 \pm 0.024$	$-0.625 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 6342	4.8982	9.7253	$115.8 \pm 0.9$		-0.55		$-2.903 \pm 0.027$	$-7.116 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6352	341.4214	-7.1662	$-125.6\pm1.0$		-0.64		$-2.158 \pm 0.025$	$-4.447 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6355	359.5851	5.4287	$-195.8\pm0.6$		-1.37		$-4.738 \pm 0.031$	$-0.572 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6356	6.7237	10.2197	$48.2\pm1.8$		-0.40		$-3.750 \pm 0.026$	$-3.392 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6362	325.5545	-17.5698	$-14.6\pm0.2$		-0.99		$-5.506 \pm 0.024$	$-4.763 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 6366	18.4086	16.0356	$-120.7\pm0.2$		-0.59		$-0.332 \pm 0.025$	$-5.160 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 6380	350.1820	-3.4219	$-1.5\pm0.7$		-0.75		$-2.183 \pm 0.031$	$-3.233 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6388	345.5565	-6.7377	$83.1 \pm 0.5$		-0.55		$-1.316 \pm 0.026$	$-2.709 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6397	338.1650	-11.9595	$18.5 \pm 0.1$		-2.02		$3.260\pm0.023$	$-17.664 \pm 0.022$	$_{\mathrm{a,c}}$
NGC 6401	3.4504	3.9801	$-105.4\pm2.5$		$-1.00\pm0.12$		$-2.748 \pm 0.035$	$1.444\pm0.034$	$_{\mathrm{a,c}}$
NGC 6402	21.3239	14.8044	$-60.7\pm0.5$		-1.28		$-3.590 \pm 0.025$	$-5.059 \pm 0.025$	$_{\mathrm{a,c}}$
NGC~6426	28.0870	16.2336	$-210.5\pm0.5$		-2.15		$-1.828 \pm 0.026$	$-2.999 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6440	7.7287	3.8007	$-69.4 \pm 0.9$		-0.36		$-1.187 \pm 0.036$	$-4.020 \pm 0.035$	$_{\mathrm{a,c}}$
NGC 6441	353.5322	-5.0058	$18.5 \pm 0.6$		-0.46		$-2.551 \pm 0.028$	$-5.348 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6453	355.7180	-3.8722	$-99.2 \pm 1.2$		-1.50		$0.203 \pm 0.036$	$-5.934 \pm 0.037$	$_{\mathrm{a,c}}$

Table 21 continued on next page

Table 21 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe/H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	$\rm km\ s^{-1}$	$\rm km\ s^{-1}$			${\rm mas~yr^{-1}}$	${\rm mas~yr}^{-1}$	
NGC 6496	348.0269	-10.0138	$-134.7 \pm 0.3$		-0.46		$-3.060 \pm 0.027$	$-9.271 \pm 0.026$	a,c
NGC 6517	19.2252	6.7625	$-35.1\pm1.6$		-1.23		$-1.551 \pm 0.029$	$-4.470 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6522	1.0246	-3.9255	$-15.2\pm0.5$		-1.34		$-6.827 \pm 0.059$	$-2.588 \pm 0.050$	$_{\mathrm{a,c}}$
NGC 6528	1.1386	-4.1741	$211.9 \pm 0.4$		-0.11		$-2.157 \pm 0.043$	$-5.649 \pm 0.039$	$_{\mathrm{a,c}}$
NGC 6535	27.1755	10.4358	$-214.8\pm0.5$		-1.79		$-4.214 \pm 0.027$	$-2.939 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6539	20.7951	6.7757	$35.2 \pm 0.5$		-0.63		$-6.896 \pm 0.026$	$-3.537 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6540	3.2850	-3.3129	$-16.5\pm0.8$		$-1.04\pm0.15$		$-3.702 \pm 0.032$	$-2.791 \pm 0.032$	$_{\mathrm{a,c}}$
NGC 6541	349.2861	-11.1882	$-164.0\pm0.5$		-1.81		$0.287\pm0.025$	$-8.847 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6544	5.8365	-2.2024	$-38.5 \pm 0.7$		-1.40		$-2.304 \pm 0.031$	$-18.604 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6553	5.2533	-3.0292	$-0.3 \pm 0.3$		-0.18		$0.344 \pm 0.030$	$-0.454 \pm 0.029$	$_{\mathrm{a,c}}$
NGC 6558	0.1990	-6.0234	$-195.1\pm0.7$		-1.32		$-1.720 \pm 0.036$	$-4.144 \pm 0.034$	$_{\mathrm{a,c}}$
NGC 6569	0.4809	-6.6809	$-48.5 \pm 0.3$		$-0.84 \pm 0.01$		$-4.125 \pm 0.028$	$-7.354 \pm 0.028$	$_{\rm f,c}$
NGC 6584	342.1435	-16.4139	$260.6 \pm 1.6$		-1.50		$-0.090 \pm 0.026$	$-7.202 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6624	2.7883	-7.9135	$54.8 \pm 0.4$		-0.44		$0.124 \pm 0.029$	$-6.936 \pm 0.029$	$_{\mathrm{a,c}}$
NGC 6626	7.7982	-5.5807	$11.1 \pm 0.6$		-1.32		$-0.278 \pm 0.028$	$-8.922 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6637	1.7229	-10.2694	$47.5 \pm 1.0$		-0.64		$-5.034 \pm 0.028$	$-5.832 \pm 0.028$	$_{\mathrm{a,c}}$
NGC 6638	7.8965	-7.1530	$8.6 \pm 2.0$		-0.95		$-2.518 \pm 0.029$	$-4.076 \pm 0.029$	$_{\mathrm{a,c}}$
NGC 6642	9.8145	-6.4393	$-60.6 \pm 1.4$		$-1.11 \pm 0.25$		$-0.173 \pm 0.030$	$-3.892 \pm 0.030$	$_{\mathrm{a,c}}$
NGC 6652	1.5339	-11.3768	$-95.4 \pm 0.9$		-0.81		$-5.484 \pm 0.027$	$-4.274 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6656	9.8923	-7.5517	$-148.7\pm0.8$	7.80	-1.70		$9.851 \pm 0.023$	$-5.617 \pm 0.023$	$_{\mathrm{a,c}}$
NGC 6681	2.8529	-12.5099	$216.6 \pm 0.8$	5.20	-1.62		$1.431\pm0.027$	$-4.744 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6712	25.3541	-4.3180	$-107.5\pm0.3$	4.30	-1.02		$3.363\pm0.027$	$-4.436 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6715	5.6070	-14.0871	$143.1 \pm 0.4$	10.50	-1.49		$-2.679 \pm 0.025$	$-1.387 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6717	12.8760	-10.9002	$30.2 \pm 0.9$		-1.26		$-3.125 \pm 0.027$	$-5.008 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6723	0.0693	-17.2989	$-94.4 \pm 0.3$		-1.10		$1.028\pm0.025$	$-2.418 \pm 0.025$	$_{\mathrm{a,c}}$
NGC 6749	36.2000	-2.2054	$-58.4 \pm 1.0$		-1.60		$-2.829 \pm 0.028$	$-6.006 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 6752	336.4929	-25.6283	$-26.0 \pm 0.1$	4.90	-1.54		$-3.161 \pm 0.022$	$-4.027 \pm 0.022$	$_{\mathrm{a,c}}$
NGC 6760	36.1078	-3.9243	$-2.4 \pm 1.3$		-0.40		$-1.107 \pm 0.026$	$-3.615 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6779	62.6594	8.3364	$-137.0\pm0.5$	4.00	-1.98		$-2.018 \pm 0.025$	$1.618\pm0.025$	$_{\mathrm{a,c}}$
NGC 6809	8.7926	-23.2716	$174.7 \pm 0.2$	4.00	-1.94		$-3.432 \pm 0.024$	$-9.311 \pm 0.024$	$_{\mathrm{a,c}}$

Table 21 continued on next page

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Table 21 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{ m [Fe/H]}$	$\mu_{lpha\star}$	$\mu_\delta$	Ref
	$\deg$	$\deg$	${\rm km}~{\rm s}^{-1}$	${\rm km~s^{-1}}$			$\mathrm{mas}\;\mathrm{yr}^{-1}$	$\mathrm{mas}\ \mathrm{yr}^{-1}$	
NGC 6838	56.7459	-4.5644	$-22.7 \pm 0.2$	2.30	-0.78		$-3.416 \pm 0.025$	$-2.656 \pm 0.024$	$_{\mathrm{a,c}}$
NGC~6864	20.3041	-25.7472	$-189.1\pm1.1$	10.30	-1.29		$-0.598 \pm 0.026$	$-2.810 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6934	52.1033	-18.8930	$-406.2\pm0.7$	5.10	-1.47		$-2.655 \pm 0.026$	$-4.689 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 6981	35.1623	-32.6831	$-331.4\pm1.5$		-1.42		$-1.274 \pm 0.026$	$-3.361 \pm 0.026$	$_{\mathrm{a,c}}$
NGC 7006	63.7696	-19.4072	$-383.5\pm0.7$		-1.52		$-0.128 \pm 0.027$	$-0.633 \pm 0.027$	$_{\mathrm{a,c}}$
NGC 7078	65.0126	-27.3126	$-106.8\pm0.3$	13.50	-2.37		$-0.659 \pm 0.024$	$-3.803 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 7089	53.3709	-35.7698	$-3.8 \pm 0.3$	8.20	-1.65		$3.435\pm0.025$	$-2.159 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 7099	27.1791	-46.8355	$-185.2\pm0.2$	5.50	-2.27		$-0.737 \pm 0.025$	$-7.299 \pm 0.024$	$_{\mathrm{a,c}}$
NGC 7492	53.3863	-63.4776	$-176.7\pm0.3$	1.20	-1.78		$0.756 \pm 0.028$	$-2.320 \pm 0.028$	$_{\mathrm{a,c}}$
Palomar 1	130.0648	19.0281	$-75.7 \pm 0.3$		-0.65		$-0.252 \pm 0.034$	$0.007\pm0.037$	$_{\mathrm{a,c}}$
Palomar 10	52.4364	2.7249	$-31.7\pm0.2$		-0.10		$-4.322 \pm 0.029$	$-7.173 \pm 0.029$	$_{\mathrm{a,c}}$
Palomar 11	31.8051	-15.5759	$-67.6\pm0.8$		-0.40		$-1.766 \pm 0.030$	$-4.971 \pm 0.028$	$_{\mathrm{a,c}}$
Palomar 12	30.5101	-47.6816	$27.9 \pm 0.3$		-0.85		$-3.220 \pm 0.029$	$-3.333 \pm 0.028$	$_{\mathrm{a,c}}$
Palomar 13	87.1033	-42.7002	$25.3 \pm 0.2$	0.90	-1.88		$1.748 \pm 0.049$	$0.104\pm0.047$	$_{\mathrm{a,c}}$
Palomar 14	28.7456	42.1915	$72.3 \pm 0.1$	0.40	-1.62		$-0.463 \pm 0.038$	$-0.413 \pm 0.038$	$_{\mathrm{a,c}}$
Palomar 15	18.8486	24.3369	$72.3 \pm 1.7$		-2.07		$-0.592 \pm 0.037$	$-0.901 \pm 0.034$	$_{a,c}$
Palomar 2	170.5302	-9.0722	$-136.0\pm1.6$		-1.42		$1.045\pm0.034$	$-1.522 \pm 0.031$	$_{a,c}$
Palomar 3	240.1404	41.8636	$94.0 \pm 0.8$		-1.63		$0.086\pm0.060$	$-0.148 \pm 0.071$	$_{\mathrm{a,c}}$
Palomar 4	202.3114	71.8012	$72.4 \pm 0.2$		-1.41		$-0.188 \pm 0.042$	$-0.476 \pm 0.041$	$_{\mathrm{a,c}}$
Palomar 5	0.8389	45.8559	$-58.6\pm0.1$	1.10	-1.41		$-2.730 \pm 0.028$	$-2.654 \pm 0.027$	$_{\mathrm{a,c}}$
Palomar 6	2.0900	1.7788	$174.3 \pm 1.6$		-1.10		$-9.222 \pm 0.038$	$-5.347 \pm 0.036$	$_{\rm g,c}$
Palomar 8	14.1031	-6.8007	$-31.5\pm0.2$		-0.37		$-1.987 \pm 0.027$	$-5.694 \pm 0.027$	$_{a,c}$
Pyxis	261.3212	6.9915	$40.5 \pm 0.2$		-1.20		$1.030\pm0.032$	$0.138\pm0.035$	$_{\mathrm{a,c}}$
Rup 106	300.8880	11.6708	$-38.4 \pm 0.3$		-1.68		$-1.254 \pm 0.026$	$0.401\pm0.026$	$_{\mathrm{a,c}}$
Terzan 1	357.5576	0.9911	$56.8 \pm 1.6$		$-0.71\pm0.15$		$-2.806 \pm 0.055$	$-4.861 \pm 0.055$	$_{a,c}$
Terzan 10	4.4212	-1.8643	$211.4 \pm 2.3$		$-1.64\pm0.09$		$2.566 \pm 0.039$	$-6.438 \pm 0.036$	$_{\mathrm{a,c}}$
Terzan 12	8.3581	-2.1008	$95.6 \pm 1.2$		$-0.48\pm0.16$		$-6.222 \pm 0.037$	$-3.052 \pm 0.034$	$_{\rm a,c}$
Terzan 2	356.3194	2.2981	$134.6 \pm 1.0$		$-0.54\pm0.10$		$-2.170 \pm 0.041$	$-6.263 \pm 0.038$	$_{\rm a,c}$
Terzan 3	345.0841	9.1990	$-135.8\pm0.6$		-0.74		$-5.577 \pm 0.027$	$-1.760 \pm 0.026$	$_{\mathrm{a,c}}$
Terzan 4	356.0240	1.3077	$-49.0\pm1.6$		-1.41		$-5.462 \pm 0.060$	$-3.711 \pm 0.048$	$_{\mathrm{a,c}}$

Table 21 continued on next page

Table 21 (continued)

Name	1	b	$v_{ m los}$	$\sigma_{ m los}$	$[\mathrm{Fe}/\mathrm{H}]$	$\sigma_{\rm [Fe/H]}$	$\mu_{lpha\star}$	$\mu_{\delta}$	Ref
	$\deg$	$\deg$	${\rm km~s^{-1}}$	$\rm km\ s^{-1}$			${ m mas~yr^{-1}}$	${\rm mas~yr}^{-1}$	
Terzan 5	3.8395	1.6868	$-82.6 \pm 0.7$		-0.34		$-1.989 \pm 0.068$	$-5.243 \pm 0.066$	$_{ m a,c}$
Terzan 6	358.5713	-2.1618	$136.4\pm1.5$		-0.56		$-4.979 \pm 0.048$	$-7.431 \pm 0.039$	$_{\mathrm{a,c}}$
Terzan 7	3.3868	-20.0666	$159.8 \pm 0.1$		-0.32		$-3.002 \pm 0.029$	$-1.651 \pm 0.029$	$_{\mathrm{a,c}}$
Terzan 8	5.7592	-24.5588	$148.4 \pm 0.2$		-2.16		$-2.496 \pm 0.027$	$-1.581 \pm 0.026$	$_{\mathrm{a,c}}$
Terzan 9	3.6031	-1.9888	$68.5 \pm 0.6$		$-1.15\pm0.12$		$-2.121 \pm 0.052$	$-7.763 \pm 0.049$	$_{\mathrm{a,c}}$
Ton 2	350.7934	-3.4236	$-184.7\pm1.1$		$-0.57\pm0.13$		$-5.904 \pm 0.031$	$-0.755 \pm 0.029$	$_{\mathrm{a,c}}$
UKS 1	5.1254	0.7640	$59.4 \pm 2.6$		-0.64		$-2.040 \pm 0.095$	$-2.754 \pm 0.063$	$_{\mathrm{a,c}}$
Whiting 1	161.6176	-60.6359	$-130.4\pm1.8$				$-0.228 \pm 0.065$	$-2.046 \pm 0.056$	$_{\mathrm{a,c}}$

Note— Citations: (a) Baumgardt & Hilker (2018) (b) Kunder et al. (2021) (c) Vasiliev & Baumgardt (2021) (d) Kunder et al. (2023) (e) Simpson (2018) (f) Pallanca et al. (2023) (g) Souza et al. (2021)

## REFERENCES

- Abell, G. O. 1955, PASP, 67, 258, doi: 10.1086/126815
- Armandroff, T. E., Davies, J. E., & Jacoby, G. H. 1998. AJ, 116, 2287, doi: 10.1086/300619
- Arp, H., & van den Bergh, S. 1960, PASP, 72, 48 doi: 10.1086/127473
- Balbinot, E., Santiago, B. X., da Costa, L., et al. 2013, ApJ, 767, 101, doi: 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
- Barnard, E. E. 1884, Astronomische Nachrichten, 110, 125, doi: 10.1002/asna.18841100805
- Barnes, D. G., & de Blok, W. J. G. 2001, AJ, 122, 825 doi: 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
- Battaglia, G., Taibi, S., Thomas, G. F., & Fritz, T. K. 2022, A&A, 657, A54, doi: 10.1051/0004-6361/202141528
- Baumgardt, H., & Hilker, M. 2018, MNRAS, 478, 1520, doi: 10.1093/mnras/sty1057
- Baumgardt, H., Sollima, A., & Hilker, M. 2020, PASA, 37, e046, doi: 10.1017/pasa.2020.38
- Baumgardt, H., & Vasiliev, E. 2021, MNRAS, 505, 5957, doi: 10.1093/mnras/stab1474
- Beasley, M. A., Leaman, R., Gallart, C., et al. 2019 MNRAS, 487, 1986, doi: 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
- Begum, A., Chengalur, J. N., Karachentsev, I. D., & Sharina, M. E. 2005, MNRAS, 359, L53,
- doi: 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
- Bellazzini, M., Gennari, N., & Ferraro, F. R. 2005, MNRAS, 360, 185, doi: 10.1111/j.1365-2966.2005.09027.x
- Belokurov, V., Irwin, M. J., Koposov, S. E., et al. 2014,
- Belokurov, V., Zucker, D. B., Evans, N. W., et al. 2006, ApJL, 647, L111, doi: 10.1086/507324 MNRAS, 441, 2124, doi: 10.1093/mnras/stu626
- -. 2007, ApJ, 654, 897, doi: 10.1086/509718
- Belokurov, V., Walker, M. G., Evans, N. W., et al. 2008. ApJL, 686, L83, doi: 10.1086/592962
- -. 2009, MNRAS, 397, 1748,
- doi: 10.1111/j.1365-2966.2009.15106.x
- 2010, ApJL, 712, L103,
- doi: 10.1088/2041-8205/712/1/L103
- Bernstein-Cooper, E. Z., Cannon, J. M., Elson, E. C., et al. 2014, AJ, 148, 35, doi: 10.1088/0004-6256/148/2/35

- Bica, E., Pavani, D. B., Bonatto, C. J., & Lima, E. F. 2019, AJ, 157, 12, doi: 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
- Borissova, J., Chené, A. N., Ramírez Alegría, S., et al 2014, A&A, 569, A24, doi: 10.1051/0004-6361/201322483
- Bouchard, A., Jerjen, H., Da Costa, G. S., & Ott, J. 2005, AJ, 130, 2058, doi: 10.1086/496977
- Bruce, J., Li, T. S., Pace, A. B., et al. 2023, ApJ, 950, 167, doi: 10.3847/1538-4357/acc943
- Brunthaler, A., Reid, M. J., Falcke, H., Henkel, C., & Menten, K. M. 2007, A&A, 462, 101,
- Cannon, R. D., Hawarden, T. G., & Tritton, S. B. 1977, doi: 10.1051/0004-6361:20066430
- MNRAS, 180, 81P, doi: 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
- Canterna, R., & Flower, P. J. 1977, ApJL, 212, L57, doi: 10.1086/182374
- Cantu, S. A., Pace, A. B., Marshall, J., et al. 2021, ApJ, 916, 81, doi: 10.3847/1538-4357/ac0443
- Carlin, J. L., Grillmair, C. J., Muñoz, R. R., Nidever, doi: 10.1088/0004-637X/702/1/L9 D. L., & Majewski, S. R. 2009, ApJL, 702, L9,
- Carlin, J. L., & Sand, D. J. 2018, ApJ, 865, 7, doi: 10.3847/1538-4357/aad8c1
- Carlin, J. L., Sand, D. J., Muñoz, R. R., et al. 2017, AJ 154, 267, doi: 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
- Cerny, W., Pace, A. B., Drlica-Wagner, A., et al. 2021a.  $ApJL,\,920,\,L44,\,doi\colon 10.3847/2041\text{-}8213/ac2d9a$
- Cerny, W., Martínez-Vázquez, C. E., Drlica-Wagner, A., . 2021b, ApJ, 910, 18, doi: 10.3847/1538-4357/abe1af
- Cerny, W., Simon, J. D., Li, T. S., et al. 2023b, ApJ, 942 et al. 2023a, ApJ, 953, 1, doi: 10.3847/1538-4357/acdd78
- Cerny, W., Drlica-Wagner, A., Li, T. S., et al. 2023c, ApJL, 111, doi: 10.3847/1538-4357/aca1c3
- 953, L21, doi: 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
- Chiti, A., Simon, J. D., Frebel, A., et al. 2022, ApJ, 939 41, doi: 10.3847/1538-4357/ac96ed
- Chiti, A., Frebel, A., Ji, A. P., et al. 2023, AJ, 165, 55 doi: 10.3847/1538-3881/aca416
- Cole, A. A., Weisz, D. R., Skillman, E. D., et al. 2017, ApJ, 837, 54, doi: 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/mnrasl/slac063
- Collins, M. L. M., Tollerud, E. J., Rich, R. M., et al. 2020, MNRAS, 491, 3496, doi: 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
- Collins, M. L. M., Read, J. I., Ibata, R. A., et al. 2021, MNRAS, 505, 5686, doi: 10.1093/mnras/stab1624
- Collins, M. L. M., Karim, N., Martinez-Delgado, D., et al. 2023, arXiv e-prints, arXiv:2305.13966,
- doi: 10.48550/arXiv.2305.13966
- Conn, B. C., Jerjen, H., Kim, D., & Schirmer, M. 2018, ApJ, 852, 68, doi: 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 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
- Crnojević, D., Sand, D. J., Zaritsky, D., et al. 2016, ApJL, 824, L14, doi: 10.3847/2041-8205/824/1/L14
- Da Costa, G. S. 1995, PASP, 107, 937, doi: 10.1086/133642
- 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
- Dalcanton, J. J., Williams, B. F., Seth, A. C., et al. 2009, ApJS, 183, 67, doi: 10.1088/0067-0049/183/1/67
- Dall'Ora, M., Clementini, G., Kinemuchi, K., et al. 2006, ApJL, 653, L109, doi: 10.1086/510665
- Dall'Ora, M., Kinemuchi, K., Ripepi, V., et al. 2012, ApJ
- 752, 42, doi: 10.1088/0004-637X/752/1/42 Dias, B., Palma, T., Minniti, D., et al. 2022, A&A, 657,
- A67, doi: 10.1051/0004-6361/202141580 Djorgovski, S. 1987, ApJL, 317, L13, doi: 10.1086/184903
- Drlica-Wagner, A., Bechtol, K., Rykoff, E. S., et al. 2015, ApJ, 813, 109, doi: 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
- Drlica-Wagner, A., Bechtol, K., Mau, S., et al. 2020, ApJ, 893, 47, doi: 10.3847/1538-4357/ab7eb9
- Dunlop, J. 1828, Philosophical Transactions of the Royal Society of London Series I, 118, 113
- Fadely, R., Willman, B., Geha, M., et al. 2011, AJ, 142, 88 doi: 10.1088/0004-6256/142/3/88
- Fritz, T. K., Carrera, R., Battaglia, G., & Taibi, S. 2019, A&A, 623, A129, doi: 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

- Gaia Collaboration, Helmi, A., van Leeuwen, F., et al. 2018, A&A, 616, A12, doi: 10.1051/0004-6361/201832698
- Garofalo, A., Cusano, F., Clementini, G., et al. 2013, ApJ, 767, 62, doi: 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
- —. 2022a, A&A, 662, A95,
- doi: 10.1051/0004-6361/202243342
- —. 2020, A&A, 642, L19,
- doi: 10.1051/0004-6361/202039233
- Garro, E. R., Minniti, D., Alessi, B., et al. 2022b, A&A, 659, A155, doi: 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
- Gatto, M., Ripepi, V., Bellazzini, M., et al. 2021, Research Notes of the American Astronomical Society, 5, 159, doi: 10.3847/2515-5172/ac14bf
- —. 2022, ApJL, 929, L21, doi: 10.3847/2041-8213/ac6421
- Gatto, M., Bellazzini, M., Tortora, C., et al. 2023, arXiv e-prints, arXiv:2311.06037.
- $\rm https://arxiv.org/abs/2311.06037$
- Giovanelli, R., Haynes, M. P., Adams, E. A. K., et al. 2013, AJ, 146, 15, doi: 10.1088/0004-6256/146/1/15
- Gran, F., Zoccali, M., Contreras Ramos, R., et al. 2019, A&A, 628, A45, doi: 10.1051/0004-6361/201834986
- Gran, F., Zoccali, M., Saviane, I., et al. 2022, MNRAS, 509, 4962, doi: 10.1093/mnras/stab2463
- Gran, F., Kordopatis, G., Zoccali, M., et al. 2023, arXiv e-prints, arXiv:2310.09868.
- https://arxiv.org/abs/2310.09868
- Greco, C., Clementini, G., Catelan, M., et al. 2007, ApJ, 670, 332, doi: 10.1086/522102
- Greco, C., Dall'Ora, M., Clementini, G., et al. 2008, ApJL, 675, L73, doi: 10.1086/533585
- Grillmair, C. J. 2009, ApJ, 693, 1118,
- doi: 10.1088/0004-637X/693/2/1118
- Hargis, J. R., Albers, S., Crnojević, D., et al. 2020, ApJ, 888, 31, doi: 10.3847/1538-4357/ab58d2
- Harrington, R. G., & Wilson, A. G. 1950, PASP, 62, 118 doi: 10.1086/126249
- Harris, W. E. 1996, AJ, 112, 1487, doi: 10.1086/118116
- Heiger, M. E., Li, T. S., Pace, A. B., et al. 2023, arXiv e-prints, arXiv:2308.08602,
- doi: 10.48550/arXiv.2308.08602
- Henning, P. A., Staveley-Smith, L., Ekers, R. D., et al. 2000, AJ, 119, 2686, doi: 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 heavens, commenced in 1825 of a telescopic survey of the whole surface of the visible 6, 7, 8, at the Cape of Good Hope; being the completion astronomical observations made during the years 1834, 5
- Herschel, W. 1789, Philosophical Transactions of the Royal Society of London Series I, 79, 212
- Higgs, C. R., McConnachie, A. W., Annau, N., et al. 2021, MNRAS, 503, 176, doi: 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
- Hodge, P. W. 1961, AJ, 66, 83, doi: 10.1086/108378
- Hodge, P. W., Dolphin, A. E., Smith, T. R., & Mateo, M. 1999, ApJ, 521, 577, doi: 10.1086/307595
- Hoessel, J. G., & Mould, J. R. 1982, ApJ, 254, 38 doi: 10.1086/159702
- Hoffman, G. L., Salpeter, E. E., Farhat, B., et al. 1996 ApJS, 105, 269, doi: 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
- -. 2018, PASJ, 70, S18, doi: 10.1093/pasj/psx050
- Homma, D., Chiba, M., Komiyama, Y., et al. 2019, PASJ, 71, 94, doi: 10.1093/pasj/psz076
- 2023, arXiv e-prints, arXiv:2311.05439
- $\rm https://arxiv.org/abs/2311.05439$
- Humason, M. L., Mayall, N. U., & Sandage, A. R. 1956, AJ, 61, 97, doi: 10.1086/107297
- Hurt, R. L., Jarrett, T. H., Kirkpatrick, J. D., et al. 2000, AJ, 120, 1876, doi: 10.1086/301549
- Ibata, R., Martin, N. F., Irwin, M., et al. 2007, ApJ, 671, 1591, doi: 10.1086/522574
- Ibata, R. A., Gilmore, G., & Irwin, M. J. 1994, Nature 370, 194, doi: 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
- Irwin, M. J., Ferguson, A. M. N., Huxor, A. P., et al. 2008 ApJL, 676, L17, doi: 10.1086/587100
- Irwin, M. J., Belokurov, V., Evans, N. W., et al. 2007 ApJL, 656, L13, doi: 10.1086/512183
- Jenkins, S. A., Li, T. S., Pace, A. B., et al. 2021, ApJ, 920 92, doi: 10.3847/1538-4357/ac1353
- Ji, A. P., Koposov, S. E., Li, T. S., et al. 2021, ApJ, 921, 32, doi: 10.3847/1538-4357/ac1869

- Jones, M. G., Mutlu-Pakdil, B., Sand, D. J., et al. 2023, ApJL, 957, L5, doi: 10.3847/2041-8213/ad0130
- Kacharov, N., Battaglia, G., Rejkuba, M., et al. 2017, MNRAS, 466, 2006, doi: 10.1093/mnras/stw3188
- Karachentsev, I. D., & Karachentseva, V. E. 1999, A&A,
- Karachentsev, I. D., Karachentseva, V. E., & Huchtmeier. W. K. 2001a, A&A, 366, 428
- doi: 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
- Karachentsev, I. D., Kniazev, A. Y., & Sharina, M. E. 2015a, Astronomische Nachrichten, 336, 707,
- Karachentsev, I. D., Makarova, L. N., Makarov, D. I., doi: 10.1002/asna.201512207
- Karachentsev, I. D., Makarova, L. N., Tully, R. B., Wu, doi: 10.1093/mnrasl/slu181 Tully, R. B., & Rizzi, L. 2015b, MNRAS, 447, L85,
- doi: 10.1093/mnras/stu1217 P.-F., & Kniazev, A. Y. 2014, MNRAS, 443, 1281,
- Karachentsev, I. D., Sharina, M. E., Dolphin, A. E., et al. 2001b, A&A, 379, 407, doi: 10.1051/0004-6361:20011344
- Karachentseva, V. E. 1976, Soobshcheniya Spetsial'noj Astrofizicheskoj Observatorii, 18, 42
- Karachentseva, V. E., & Karachentsev, I. D. 1998, A&AS 127, 409, doi: 10.1051/aas:1998109
- 2000, A&AS, 146, 359, doi: 10.1051/aas:2000275
- Karachentseva, V. E., Karachentsev, I. D., & Richter,
- G. M. 1999, A&AS, 135, 221, doi: 10.1051/aas:1999173
- Karczmarek, P., Pietrzyński, G., Gieren, W., et al. 2015, AJ, 150, 90, doi: 10.1088/0004-6256/150/3/90
- Kim, D., & Jerjen, H. 2015a, ApJL, 808, L39
- doi: 10.1088/2041-8205/808/2/L39
- . 2015b, ApJ, 799, 73, doi: 10.1088/0004-637X/799/1/73
- Kim, D., Jerjen, H., Mackey, D., Da Costa, G. S., & doi: 10.1088/2041-8205/804/2/L44 Milone, A. P. 2015a, ApJL, 804, L44,
- . 2016a, ApJ, 820, 119,
- doi: 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
- Kim, D., Jerjen, H., Geha, M., et al. 2016b, ApJ, 833, 16, doi: 10.3847/0004-637X/833/1/16
- Kirby, E. N., Boylan-Kolchin, M., Cohen, J. G., et al. 2013 ApJ, 770, 16, doi: 10.1088/0004-637X/770/1/16
- Kirby, E. N., Bullock, J. S., Boylan-Kolchin, M.,
- 1015, doi: 10.1093/mnras/stu025 Kaplinghat, M., & Cohen, J. G. 2014, MNRAS, 439,

- Kirby, E. N., Cohen, J. G., Simon, J. D., et al. 2017a, ApJ, 838, 83, doi: 10.3847/1538-4357/aa6570
- Kirby, E. N., Rizzi, L., Held, E. V., et al. 2017b, ApJ, 834 9, doi: 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
- Kobulnicky, H. A., Monson, A. J., Buckalew, B. A., et al. 2005, AJ, 129, 239, doi: 10.1086/426337
- Koch, A., Kunder, A., & Wojno, J. 2017, A&A, 605, A128 doi: 10.1051/0004-6361/201731771
- Koposov, S., de Jong, J. T. A., Belokurov, V., et al. 2007,  $\mathrm{ApJ}, 669, 337, \mathrm{doi:}\ 10.1086/521422$
- Koposov, S. E., Belokurov, V., & Torrealba, G. 2017, MNRAS, 470, 2702, doi: 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
- Koposov, S. E., Gilmore, G., Walker, M. G., et al. 2011,
- ApJ, 736, 146, doi: 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
- Koposov, S. E., Walker, M. G., Belokurov, V., et al. 2018, MNRAS, 479, 5343, doi: 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
- Koribalski, B. S., Staveley-Smith, L., Kilborn, V. A., et al. 2004, AJ, 128, 16, doi: 10.1086/421744
- Kowal, C. T., Lo, K. Y., & Sargent, W. L. W. 1978, IAUC
- Kuehn, C., Kinemuchi, K., Ripepi, V., et al. 2008, ApJL, 674, L81, doi: 10.1086/529137
- Kunder, A., Crabb, R. E., Debattista, V. P., Koch-Hansen doi: 10.3847/1538-3881/ac0888 A. J., & Huhmann, B. M. 2021, AJ, 162, 86,
- Kunder, A., Prudil, Z., Covey, K., et al. 2023, arXiv e-prints, arXiv:2310.18575.
- $\rm https://arxiv.org/abs/2310.18575$
- Kurtev, R., Ivanov, V. D., Borissova, J., & Ortolani, S. 2008, A&A, 489, 583, doi: 10.1051/0004-6361:200809425
- Laevens, B. P. M., Martin, N. F., Sesar, B., et al. 2014,
- ApJL, 786, L3, doi: 10.1088/2041-8205/786/1/L3
- Laevens, B. P. M., Martin, N. F., Ibata, R. A., et al. 2015a, ApJL, 802, L18, doi: 10.1088/2041-8205/802/2/L18
- Laevens, B. P. M., Martin, N. F., Bernard, E. J., et al. 2015b, ApJ, 813, 44, doi: 10.1088/0004-637X/813/1/44
- Larsen, S. S., Brodie, J. P., & Strader, J. 2012, A&A, 546. A53, doi: 10.1051/0004-6361/201219895
- 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
- Leaman, R., Venn, K. A., Brooks, A. M., et al. 2013, ApJ, 767, 131, doi: 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
- 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
- Letarte, B., Hill, V., Jablonka, P., et al. 2006, A&A, 453, 547, doi: 10.1051/0004-6361:20054439
- Li, T. S., Simon, J. D., Drlica-Wagner, A., et al. 2017, ApJ, 838, 8, doi: 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
- Longeard, N., Martin, N., Ibata, R. A., et al. 2019 MNRAS, 490, 1498, doi: 10.1093/mnras/stz2592
- Longeard, N., Martin, N., Starkenburg, E., et al. 2018,
- MNRAS, 480, 2609, doi: 10.1093/mnras/sty1986
- Longeard, N., Martin, N., Ibata, R. A., et al. 2021 MNRAS, 503, 2754, doi: 10.1093/mnras/stab604
- Longmore, A. J., Hawarden, T. G., Webster, B. L., Goss,
- doi: 10.1093/mnras/183.1.97P W. M., & Mebold, U. 1978, MNRAS, 183, 97P,
- Longmore, A. J., Kurtev, R., Lucas, P. W., et al. 2011, MNRAS, 416, 465, doi: 10.1111/j.1365-2966.2011.19056.x
- Lunt, J. 1902, MNRAS, 62, 468, doi: 10.1093/mnras/62.7.468
- Luque, E., Queiroz, A., Santiago, B., et al. 2016, MNRAS 458, 603, doi: 10.1093/mnras/stw302
- Luque, E., Santiago, B., Pieres, A., et al. 2018, MNRAS 478, 2006, doi: 10.1093/mnras/sty1039
- Mackey, A. D., & Gilmore, G. F. 2003a, MNRAS, 340, 175, doi: 10.1046/j.1365-8711.2003.06275.x
- -. 2003b, MNRAS, 345, 747,
- doi: 10.1046/j.1365-8711.2003.07001.x
- Madore, B. F., & Arp, H. C. 1982, PASP, 94, 40
- doi: 10.1086/130938
- Majewski, S. R., Beaton, R. L., Patterson, R. J., et al. 2007, ApJL, 670, L9, doi: 10.1086/524033
- Makarova, L. N., Tully, R. B., Anand, G. S., et al. 2023,
- ApJ, 943, 139, doi: 10.3847/1538-4357/acb048
- Martin, N. F., Ibata, R. A., Irwin, M. J., et al. 2006 MNRAS, 371, 1983,
- doi: 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

- Martin, N. F., Slater, C. T., Schlafly, E. F., et al. 2013a, ApJ, 772, 15, doi: 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
- Martin, N. F., Chambers, K. C., Collins, M. L. M., et al. 2014, ApJL, 793, L14, doi: 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
- Martin, N. F., Jungbluth, V., Nidever, D. L., et al. 2016a, ApJL, 830, L10, doi: 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
- Martínez-Delgado, D., Karim, N., Charles, E. J. E., et al. 2022, MNRAS, 509, 16, doi: 10.1093/mnras/stab2797
- Martínez-Vázquez, C. E., Monelli, M., Bono, G., et al. 2015, MNRAS, 454, 1509, doi: 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
- Martínez-Vázquez, C. E., Vivas, A. K., Gurevich, M., et al 2019, MNRAS, 490, 2183, doi: 10.1093/mnras/stz2609
- Martínez-Vázquez, C. E., Monelli, M., Cassisi, S., et al. 2021, MNRAS, 508, 1064, doi: 10.1093/mnras/stab2493
- Mateo, M., Olszewski, E. W., & Walker, M. G. 2008, ApJ, 675, 201, doi: 10.1086/522326
- Mau, S., Drlica-Wagner, A., Bechtol, K., et al. 2019, ApJ, 875, 154, doi: 10.3847/1538-4357/ab0bb8
   Man, S. Cerny, W. Pace, A. R. et al. 2020, ApJ, 890, 136
- Mau, S., Cerny, W., Pace, A. B., et al. 2020, ApJ, 890, 136, doi: 10.3847/1538-4357/ab6c67
- McConnachie, A. W. 2012, AJ, 144, 4,
- doi: 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
- McConnachie, A. W., Huxor, A., Martin, N. F., et al. 2008, ApJ, 688, 1009, doi: 10.1086/591313
- McNanna, M., Bechtol, K., Mau, S., et al. 2023, arXiv e-prints, arXiv:2309.04467,
- doi: 10.48550/arXiv.2309.04467
- McQuinn, K. B. W., Mao, Y.-Y., Buckley, M. R., et al. 2023a, ApJ, 944, 14, doi: 10.3847/1538-4357/acaec9
- McQuinn, K. B. W., Mao, Y.-Y., Cohen, R. E., et al. 2023b, arXiv e-prints, arXiv:2307.08738,
- doi: 10.48550/arXiv.2307.08738
- McQuinn, K. B. W., Skillman, E. D., Dolphin, A., et al. 2015, Ap. 1, 819, 158, Apr. 10, 1088, 2004, 6373, 7819, 7971
- 2015, ApJ, 812, 158, doi: 10.1088/0004-637X/812/2/158 McQuinn, K. B. W., Boyer, M. L., Mitchell, M. B., et al.
- 2017, ApJ, 834, 78, doi: 10.3847/1538-4357/834/1/78Medina, G. E., Muñoz, R. R., Vivas, A. K., et al. 2018,
- ApJ, 855, 43, doi: 10.3847/1538-4357/aaad02
- Melotte, P. J. 1926, MNRAS, 86, 636, doi: 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
- 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
- Minniti, D., Alonso-García, J., & Pullen, J. 2017b, Research Notes of the American Astronomical Society, 1, 54, doi: 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
- Minniti, D., Hempel, M., Toledo, I., et al. 2011, A&A, 527, A81, doi: 10.1051/0004-6361/201015795
- Minniti, D., Palma, T., Camargo, D., et al. 2021b, A&A, 652, A129, doi: 10.1051/0004-6361/202140347
- Moni Bidin, C., Mauro, F., Geisler, D., et al. 2011, A&A, 535, A33, doi: 10.1051/0004-6361/201117488
- Moskowitz, A. G., & Walker, M. G. 2020, ApJ, 892, 27, doi: 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
- Muñoz, R. R., Geha, M., Côté, P., et al. 2012, ApJL, 753 L15, doi: 10.1088/2041-8205/753/1/L15
- Muraveva, T., Clementini, G., Garofalo, A., & Cusano, F 2020, MNRAS, 499, 4040, doi: 10.1093/mnras/staa2984
- Musella, I., Ripepi, V., Clementini, G., et al. 2009, ApJL, 695, L83, doi: 10.1088/0004-637X/695/1/L83
- Mutlu-Pakdil, B., Sand, D. J., Carlin, J. L., et al. 2018,
- Mutin-Fakdii, B., Sand, D. J., Carlin, J. L., et al. 201. ApJ, 863, 25, doi: 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
- Nemec, J. M., Wehlau, A., & Mendes de Oliveira, C. 1988, AJ, 96, 528, doi: 10.1086/114830
- 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
- Obasi, C., Gómez, M., Minniti, D., & Alonso-García, J. 2021, A&A, 654, A39, doi: 10.1051/0004-6361/202141332
- Olivares Carvajal, J., Zoccali, M., Rojas-Arriagada, A., et al. 2022, MNRAS, 513, 3993,
- doi: 10.1093/mnras/stac934
- Ortolani, S., Bonatto, C., Bica, E., & Barbuy, B. 2009, AJ, 138, 889, doi: 10.1088/0004-6256/138/3/889
- Pace, A. B., Erkal, D., & Li, T. S. 2022, ApJ, 940, 136, doi: 10.3847/1538-4357/ac997b10.48550/arXiv.2205. 05699
- Pace, A. B., Walker, M. G., Koposov, S. E., et al. 2021, ApJ, 923, 77, doi: 10.3847/1538-4357/ac2cd2

- Pace, A. B., Koposov, S. E., Walker, M. G., et al. 2023, MNRAS, 526, 1075, doi: 10.1093/mnras/stad2760
- Pallanca, C., Leanza, S., Ferraro, F. R., et al. 2023, ApJ, 950, 138, doi: 10.3847/1538-4357/accce9
- Pedreros, M. H., & Gallart, C. 2002, in Extragalactic Star Vol. 207, 177–179 Clusters, ed. D. P. Geisler, E. K. Grebel, & D. Minniti,
- Pfleiderer, J., Weinberger, R., & Mross, R. 1977, in Star Cluster Symposium, Vol. 5, 39
- Piatti, A. E., & Lucchini, S. 2022, MNRAS, 515, 4005, doi: 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
- Pišmiš, P. 1959, Boletin de los Observatorios Tonantzintla y Tacubaya, 2, 37
- Reaves, G. 1956, AJ, 61, 69, doi: 10.1086/107292
- Rhode, K. L., Smith, N. J., Crnojevic, D., et al. 2023. arXiv e-prints, arXiv:2309.01045,
- doi: 10.48550/arXiv.2309.01045
- Richardson, J. C., Irwin, M. J., McConnachie, A. W., et al. 2011, ApJ, 732, 76, doi: 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
- Romero-Colmenares, M., Fernández-Trincado, J. G., Geisler, D., et al. 2021, A&A, 652, A158,
- doi: 10.1051/0004-6361/202141294
- Ryu, J., & Lee, M. G. 2018a, ApJ, 856, 152 doi: 10.3847/1538-4357/aab1ff
- 2018b, ApJL, 863, L38, doi: 10.3847/2041-8213/aad8b7
- Sakamoto, T., & Hasegawa, T. 2006, ApJL, 653, L29, doi: 10.1086/510332
- Sand, D. J., Spekkens, K., Crnojević, D., et al. 2015, ApJL, 812, L13, doi: 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
- Sand, D. J., Mutlu-Pakdil, B., Jones, M. G., et al. 2022 ApJL, 935, L17, doi: 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
- Schuster, H. E., & West, R. M. 1976, A&A, 49, 129
- Shapley, H. 1938a, Nature, 142, 715, doi: 10.1038/142715b0
- . 1938b, Harvard College Observatory Bulletin, 908, 1
- Simon, J. D., & Geha, M. 2007, ApJ, 670, 313,

- Simon, J. D., Geha, M., Minor, Q. E., et al. 2011, ApJ, 733 46, doi: 10.1088/0004-637X/733/1/46
- Simon, J. D., Li, T. S., Drlica-Wagner, A., et al. 2017, ApJ, 838, 11, doi: 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
- Simon, J. D., Brown, T. M., Drlica-Wagner, A., et al. 2021, ApJ, 908, 18, doi: 10.3847/1538-4357/abd31b
- Simpson, J. D. 2018, MNRAS, 477, 4565,
- doi: 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
- Slater, C. T., Bell, E. F., & Martin, N. F. 2011, ApJL, 742,
- L14, doi: 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
- Smith, S. E. T., Jensen, J., Roediger, J., et al. 2023, AJ, 166, 76, doi: 10.3847/1538-3881/acdd77
- Sohn, S. T., Patel, E., Fardal, M. A., et al. 2020, ApJ, 901, 43, doi: 10.3847/1538-4357/abaf49
- Souza, S. O., Valentini, M., Barbuy, B., et al. 2021, A&A, 656, A78, doi: 10.1051/0004-6361/202141768
- Spencer, M. E., Mateo, M., Olszewski, E. W., et al. 2018. AJ, 156, 257, doi: 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
- Stephens, A. W., Catelan, M., & Contreras, R. P. 2006, AJ, 131, 1426, doi: 10.1086/500300
- Stetson, P. B., Fiorentino, G., Bono, G., et al. 2014, PASP 126, 616, doi: 10.1086/677352
- Strader, J., & Kobulnicky, H. A. 2008, AJ, 136, 2102, doi: 10.1088/0004-6256/136/5/2102
- Swift, L. 1888, Astronomische Nachrichten, 120, 33 doi: 10.1002/asna.18891200302
- Taibi, S., Battaglia, G., Rejkuba, M., et al. 2020, A&A, 635, A152, doi: 10.1051/0004-6361/201937240
- Terzan, A. 1966, Academie des Sciences Paris Comptes Rendus Serie B Sciences Physiques, 263, 221
- Serie B Sciences Physiques, 265, 734 1967, Academie des Sciences Paris Comptes Rendus
- Serie B Sciences Physiques, 267, 1245 1968, Academie des Sciences Paris Comptes Rendus
- -. 1971, A&A, 12, 477
- Tollerud, E. J., Geha, M. C., Vargas, L. C., & Bullock, J. 2013, ApJ, 768, 50, doi: 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
- Torrealba, G., Belokurov, V., & Koposov, S. E. 2019a MNRAS, 484, 2181, doi: 10.1093/mnras/stz071
- Torrealba, G., Koposov, S. E., Belokurov, V., & Irwin, M. 2016a, MNRAS, 459, 2370, doi: 10.1093/mnras/stw733

- Torrealba, G., Koposov, S. E., Belokurov, V., et al. 2016b, MNRAS, 463, 712, doi: 10.1093/mnras/stw2051
- Torrealba, G., Belokurov, V., Koposov, S. E., et al. 2018, MNRAS, 475, 5085, doi: 10.1093/mnras/sty170
- van de Rydt, F., Demers, S., & Kunkel, W. E. 1991, AJ, 102, 130, doi: 10.1086/115861 2019b, MNRAS, 488, 2743, doi: 10.1093/mnras/stz1624
- van den Bergh, S. 1959, Publications of the David Dunlap Observatory, 2, 147
- -. 1972, ApJL, 171, L31, doi: 10.1086/180861
- Vasiliev, E., & Baumgardt, H. 2021, MNRAS, 505, 5978, doi: 10.1093/mnras/stab1475
- Vivas, A. K., Martínez-Vázquez, C., & Walker, A. R. 2020, ApJS, 247, 35, doi: 10.3847/1538-4365/ab67c0
- Vivas, A. K., Martínez-Vázquez, C. E., Walker, A. R., et al 2022, ApJ, 926, 78, doi: 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
- Voggel, K., Hilker, M., Baumgardt, H., et al. 2016, MNRAS, 460, 3384, doi: 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. Instituta, 32, 207 1962, Trudy Gosudarstvennogo Astronomicheskogo
- Walker, M. G., Mateo, M., & Olszewski, E. W. 2009, AJ, 137, 3100, doi: 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
- Walker, M. G., Olszewski, E. W., & Mateo, M. 2015b,
- MNRAS, 448, 2717, doi: 10.1093/mnras/stv099
- Walsh, S. M., Jerjen, H., & Willman, B. 2007, ApJL, 662, L83, doi: 10.1086/519684
- Walsh, S. M., Willman, B., Sand, D., et al. 2008, ApJ, 688 245, doi: 10.1086/592076
- Wang, M. Y., de Boer, T., Pieres, A., et al. 2019a, ApJ 881, 118, doi: 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

- Warfield, J. T., Kallivayalil, N., Zivick, P., et al. 2023, MNRAS, 519, 1189, doi: 10.1093/mnras/stac3647
- Weinberger, R. 1995, PASP, 107, 58, doi: 10.1086/133515
- Weisz, D. R., Koposov, S. E., Dolphin, A. E., et al. 2016,
- ApJ, 822, 32, doi: 10.3847/0004-637X/822/1/32
- Whiting, A. B., Hau, G. K. T., & Irwin, M. 1999, AJ, 118 2767, doi: 10.1086/301142
- . 2002, ApJS, 141, 123, doi: 10.1086/340037
- Whiting, A. B., Irwin, M. J., & Hau, G. K. T. 1997, AJ, 114, 996, doi: 10.1086/118530
- Willman, B., Geha, M., Strader, J., et al. 2011, AJ, 142, 128, doi: 10.1088/0004-6256/142/4/128
- Willman, B., Blanton, M. R., West, A. A., et al. 2005a, AJ, 129, 2692, doi: 10.1086/430214
- Willman, B., Dalcanton, J. J., Martinez-Delgado, D., et al. 2005b, ApJL, 626, L85, doi: 10.1086/431760
- Wilson, A. G. 1955, PASP, 67, 27, doi: 10.1086/126754 Willman, B., Masjedi, M., Hogg, D. W., et al. 2006, arXiv e-prints, astro. https://arxiv.org/abs/astro-ph/0603486
- Wolf, M. 1906, MNRAS, 67, 91
- doi: 10.1002/asna.19091831204 -. 1909, Astronomische Nachrichten, 183, 187,
- Young, L. M., van Zee, L., Lo, K. Y., Dohm-Palmer, R. C., & Beierle, M. E. 2003, ApJ, 592, 111, doi: 10.1086/375581
- Zoutendijk, S. L., Brinchmann, J., Boogaard, L. A., et al. 2020, A&A, 635, A107,
- doi: 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
- Zucker, D. B., Belokurov, V., Evans, N. W., et al. 2006a, ApJL, 643, L103, doi: 10.1086/505216
- -. 2006b, ApJL, 650, L41, doi: 10.1086/508628
- Zucker, D. B., Kniazev, A. Y., Martínez-Delgado, D., et al. 2007, ApJL, 659, L21, doi: 10.1086/516748
- Zwicky, F. 1942, Physical Review, 61, 489
- doi: 10.1103/PhysRev.61.489
- -. 1959, Carnegie Inst. Washington Yearbook, 58, 60