

## ERRATUM: A VINDICATION OF THE RR LYRAE FOURIER LIGHT CURVE DECOMPOSITION FOR THE CALCULATION OF METALLICITY AND DISTANCE IN GLOBULAR CLUSTERS. (RMxAA, 2022, 58, 257)

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Table 1 was unfortunately mistaken for an older version that carried some inaccurate entries. Table 1, as included in this note, is the correct one, supersedes the one originally published, and should be preferred by interested readers.

TABLE 1  
 MEAN VALUES OF [Fe/H], GIVEN IN THREE DIFFERENT SCALES, AND  $M_V$  FROM A HOMOGENEOUS FOURIER DECOMPOSITION OF THE LIGHT CURVES OF RRL CLUSTER MEMBERS.<sup>1</sup>

GC	Oo	[Fe/H] <sub>ZW</sub>	[Fe/H] <sub>UV</sub>	[Fe/H] <sub>N</sub>	$M_V$	N	[Fe/H] <sub>ZW</sub>	[Fe/H] <sub>UV</sub>	[Fe/H] <sub>N</sub>	$M_V$	N	Ref.	$E(B - V)$	$\mathcal{L}$
NGC (M)				RRab					RRc					
1261	I	-1.48±0.05	-1.38	-1.27	0.59±0.04	6	-1.51±0.13	-1.38	-1.41	0.55±0.02	4	25	0.01	-0.71
1851	I	-1.44±0.10	-1.33	-1.18	0.54±0.03	10	-1.40±0.13	-1.28	-1.28	0.59±0.02	5	23	0.02	-0.36
3201	I	-1.49±0.10	-1.39	-1.29	0.60±0.04	19	-1.47±0.08	-1.37	-1.36	0.58±0.01	2	3	diff.	+0.08
4147	I	–	–	–	–	–	-1.72±0.26	-1.68	-1.66	0.57±0.05	6	4	0.01	+0.55
5272 (M3)	I	-1.56±0.16	-1.46	-1.46	0.59±0.05	59	-1.65±0.14	-1.57	-1.56	0.56±0.06	23	24	0.01	+0.08
5904 (M5)	I	-1.44±0.09	-1.33	-1.19	0.57±0.08	35	-1.49±0.11	-1.39	-1.38	0.58±0.03	22	19	0.03	+0.31
6171 (M107)	I	-1.33±0.12	-1.22	-0.98	0.62±0.04	6	-1.02±0.18	-0.90	-0.88	0.59±0.03	4	22	0.33	-0.73
6229	I	-1.42±0.07	-1.32	-1.13	0.61±0.06	12	-1.45±0.19	-1.32	-1.58	0.53±0.10	8	20	0.01	+0.24
6266 <sup>6</sup> (M62)	I	-1.31±0.11	-1.64	–	0.63±0.03	12	-1.45±0.19	-1.32	-1.58	0.51±0.03	8	3	0.47	+0.55
6362	I	-1.25±0.06	-1.13	-0.83	0.62±0.01	2	-1.21±0.15	-1.09	-1.10	0.59±0.05	6	27	0.06	-0.58
6366	I	-0.84	-0.77	-0.31	0.71	1	–	–	–	–	–	11 <sup>2</sup>	0.80	-0.97
6401	I	-1.36±0.09	-1.24	-1.04	0.60±0.07	19	-1.27±0.23	-1.09	-1.16	0.58±0.03	9	21	diff.	+0.13
6712	I	-1.25±0.06	-1.13	-0.82	0.55±0.03	6	-1.10±0.04	-0.95	-0.96	0.57±0.18	3	30	0.35	-0.62
6934	I	-1.56±0.14	-1.48	-1.49	0.58±0.05	15	-1.53±0.12	-1.41	-1.50	0.59±0.03	5	26	0.10	+0.25
6981 (M72)	I	-1.48±0.11	-1.37	-1.28	0.63±0.02	12	-1.66±0.08	-1.60	-1.55	0.57±0.04	4	14	0.06	+0.14
7006	I	-1.51±0.13	-1.40	-1.36	0.61±0.03	31	-1.53	-1.44	-1.43	0.55	1	33	0.08	-0.28
Pal13	I	-1.64±0.15	-1.56	-1.67	0.65±0.05	4	–	–	–	–	–	28	0.10	-0.30
288	II	-1.64	-1.58	-1.42	0.38	1	-1.59	-1.52	-1.54	0.58	1	1	0.03	+0.98
1904 (M79)	II	-1.63±0.14	-1.55	-1.47	0.41±0.05	5	-1.71	-1.66	-1.69	0.58	1	2	diff.	+0.74
4590 (M68)	II	-2.07±0.09 <sup>3</sup>	-2.21	-2.01	0.49±0.07	5	-2.09±0.03	-2.24	-2.23	0.53±0.01	15	5	0.05	+0.17
5024 (M53)	II	-1.94±0.06 <sup>3</sup>	-2.00	-1.68	0.45±0.05	18	-1.84±0.13	-1.85	-1.85	0.52±0.06	3	6	0.02	+0.81
5053	II	-2.05±0.14 <sup>3</sup>	-2.18	-2.07	0.46±0.08	3	-2.00±0.18	-2.05	-2.06	0.55±0.05	4	7	0.18	+0.50
5286 <sup>6</sup>	II	-1.68±0.15	-1.64	–	0.52±0.04	59	-1.71±0.23	-1.68	–	0.57±0.04	23	3	0.24	+0.80
5466	II	-2.04±0.14 <sup>3</sup>	-2.16	-2.01	0.44±0.09	8	-1.90±0.21	-1.89	-1.96	0.53±0.06	5	8	0.00	+0.58
6205 (M13)	II	-1.60	-1.54	-1.00	0.38	1	-1.70±0.20	-1.63	-1.71	0.59±0.05	3	29	0.02	+0.97
6254 (M10)	II?	–	–	–	–	–	-1.59	-1.52	-1.52	0.52	1	32	0.25	+1.00
6333 (M9)	II	-1.91±0.13 <sup>3</sup>	-1.96	-1.72	0.47±0.04	7	-1.71±0.23	-1.66	-1.66	0.55±0.04	6	9	diff.	+0.87
6341 (M92)	II	-2.12±0.18 <sup>3</sup>	-2.16 <sup>5</sup>	-2.26	0.45±0.03	9	-2.01±0.11	-2.11	-2.17	0.53±0.06	3	10	0.02	+0.91
6809 <sup>6</sup>	II	-1.61±0.20	-1.55	–	0.53±0.09	59	–	–	–	–	–	3	0.08	+0.87
7078 (M15)	II	-2.22±0.19 <sup>3</sup>	-2.46	-2.65	0.51±0.04	9	-2.10±0.07	-2.24	-2.27	0.52±0.03	8	15	0.08	+0.67
7089 (M2)	II	-1.60±0.18	-1.51	-1.25	0.53±0.13	10	-1.76±0.16	-1.73	-1.76	0.51±0.08	2	16	0.06	+0.38 <sup>4</sup>
7099 (M30)	II	-2.07±0.05 <sup>3</sup>	-2.21	-1.88	0.40±0.04	3	-2.03	-2.14	-2.07	0.54	1	17	0.03	+0.89
7492	II	-1.68	-1.63	-0.83	0.37	1	–	–	–	–	–	18 <sup>5</sup>	0.00	+0.76

TABLE 1. CONTINUED

GC	Oo	[Fe/H] <sub>ZW</sub>	[Fe/H] <sub>UV</sub>	[Fe/H] <sub>N</sub>	$M_V$	N	[Fe/H] <sub>ZW</sub>	[Fe/H] <sub>UV</sub>	[Fe/H] <sub>N</sub>	$M_V$	N	Ref.	$E(B - V)$	$\mathcal{L}$
NGC (M)														
				RRab					RRc					
6402 (M14)	Int	-1.44±0.17	-1.32	-1.17	0.53±0.07	24	-1.23±0.21	-1.12	-1.12	0.58±0.05	36	32	0.57	+0.65
6779 (M56)	Int	-1.97 <sup>3</sup>	-2.05	-1.74	0.53	1	-1.96	-2.03	-2.05	0.51	1	34	0.26	+0.98
6388	III	-1.35±0.05	-1.23	-1.00	0.53±0.04	2	-0.67±0.24	-0.64	-0.56	0.61±0.07	6	12	0.40	-1.00
6441	III	-1.35±0.17	-1.23	-0.80	0.43±0.08	7	-1.02±0.34	-0.82	-1.00	0.55±0.08	8	13	0.51	-0.73

Notes: <sup>1</sup> Quoted uncertainties are 1- $\sigma$  errors calculated from the scatter in the data for each cluster. The number of stars considered in the calculations is given by N. <sup>2</sup> The only RRL V1 is probably not a cluster member. <sup>3</sup> This value has a -0.21 dex added, see § 1 for a discussion. <sup>4</sup> Our calculation. <sup>5</sup> Based on one light curve not fully covered. <sup>6</sup> Metallicity and  $M_V$  taken from the compilation of Contreras et al. (2010). References are the source of the Fourier coefficients: 1. Arellano Ferro et al. (2013b); 2. Kains et al. (2012); 3. Arellano Ferro et al. (2014); 4. Arellano Ferro et al. (2018b); 5. Kains et al. (2015); 6. Arellano Ferro et al. (2011); 7. Arellano Ferro et al. (2010); 8. Arellano Ferro et al. (2008b); 9. Arellano Ferro et al. (2013a); 10. Yepez et al. (2020); 11. Arellano Ferro et al. (2008a); 12. Pritzl et al. (2002); 13. Pritzl et al. (2001); 14. Bramich et al. (2011); 15. Arellano Ferro et al. (2006); 16. Lázaro et al. (2006); 17. Kains et al. (2013); 18. Figuera Jaimes et al. (2013); 19. Arellano Ferro et al. (2016); 20. Arellano Ferro et al. (2015b); 21. Tsapras et al. (2017); 22. Deras et al. (2018); 23. Walker (1998); 24. Cacciari et al. (2005); 25. Arellano Ferro et al. (2019); 26. Yepez et al. (2018); 27. Arellano Ferro et al. (2018a); 28. Yepez et al. (2019); 29. Deras et al. (2019); 30. Deras et al. (2020); 31. Arellano Ferro et al. (2020); 32. Yepez et al. (2022); 33. Rojas Galindo et al. (2021); 34. Deras et al. (2022).