

# ERRATUM: “STELLAR DIAMETERS AND TEMPERATURES. III. MAIN SEQUENCE A, F, G, AND K STARS: ADDITIONAL HIGH-PRECISION MEASUREMENTS AND EMPIRICAL RELATIONS” (2013, *ApJ*, 771, 40)

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We correct erroneous *JHK* magnitudes for stars that appear in Table 7 of the published article. These photometric values were improperly transformed from Two Micron All Sky Survey (2MASS) *JHK* to Johnson *JHK* photometric systems due to improper reads of data columns. The method used to perform the photometric transformations described in Section 3 of the published article remains correct.

This erratum presents a new version of the entire Table 7, with the corrections incorporated (values marked with a footnote “c”). We also identify a handful of stars that Table 7 did not have, but should have had; footnotes printed in Table 7 are indicative of transformed 2MASS photometry. The stars with missing footnotes apply to only the *H* magnitudes (with the exception of HD 11964), as published *JK* magnitudes in the Johnson system were available for the majority of the stars. These *H* magnitudes, which were also transformed improperly, are also corrected within this erratum (values marked with a footnote “d”). Last, we correct an error in the Johnson *H* magnitude of HD 186408, where both the transformation and the original input value were incorrect in the previously published Table 7 (value marked with a footnote “e”). Corrected values are also highlighted in bold type so the reader may easily identify the changes made.

Several versions of color- $T_{\text{eff}}$  relations are presented in the paper (Table 8). The resulting coefficients to the color- $T_{\text{eff}}$  relations without 2MASS colors are *not* affected by these conversion errors (those marked in Table 8 with a footnote “d”). This holds true even concerning the stars with missing markers in Table 7 (see above), as it was only a transcribing error in making Table 7, and they were properly removed in the analysis. There is no statistically significant change in the results for color- $T_{\text{eff}}$  relations that include the transformed *JHK* magnitudes ( $V - J$ ,  $V - H$ ,  $V - K$ ,  $R_J - J$ ,  $R_J - H$ ,  $R_J - K$ ,  $R_C - J$ ,  $R_C - H$ ,  $R_C - K$ ,  $R_K - J$ ,  $R_K - H$ ,  $R_K - K$ ,  $g - J$ ,  $g - H$ , and  $g - K$ ), and the scatter of these solutions remain much larger than the solutions derived omitting stars with 2MASS *JHK* magnitudes (those marked in Table 8 with a footnote “d”).

**Table 7**  
Photometry Used in Color- $T_{\text{eff}}$  Relations

Star	<i>B</i>	<i>V</i>	<i>R<sub>J</sub></i>	<i>I<sub>J</sub></i>	<i>J</i>	<i>H</i>	<i>K</i>	<i>R<sub>C</sub></i>	<i>I<sub>C</sub></i>	<i>R<sub>K</sub></i>	<i>I<sub>K</sub></i>	<i>g</i> <sup>a</sup>	<i>r</i> <sup>a</sup>	<i>i</i> <sup>a</sup>	<i>z</i> <sup>a</sup>	<i>W3</i> <sup>b</sup>	<i>W4</i> <sup>b</sup>
166	6.89	6.14	...	...	<b>4.79<sup>c</sup></b>	<b>4.66<sup>c</sup></b>	<b>4.35<sup>c</sup></b>	...	...	...	...	6.42	5.86	5.67	5.62	4.33	4.12
3651	6.71	5.86	5.21	4.82	4.48	4.03	3.97	...	...	5.52	5.25	6.27	5.66	5.44	5.35	3.93	3.91
4614	4.02	3.44	2.94	2.58	2.35	2.02	1.96	...	...	3.30	3.08	...	...	...	...	...	...
5015	5.35	4.82	4.34	4.04	3.85	3.56	3.54	...	...	...	...	...	...	...	...	3.50	3.46
6210	6.38	5.84	...	...	<b>4.81<sup>c</sup></b>	<b>4.83<sup>c</sup></b>	<b>4.48<sup>c</sup></b>	...	...	...	...	6.08	5.71	5.58	5.55	4.46	4.43
9826	4.64	4.10	3.64	3.35	3.17	2.99	2.85	...	...	...	...	...	...	...	...	2.88	2.84
10476	6.08	5.24	4.55	4.12	3.85	3.44	3.21	...	...	4.87	4.58	5.68	5.04	4.84	4.75	3.09	3.31
10697	6.99	6.26	...	...	4.98	4.66	4.58	...	...	...	...	6.57	6.07	5.93	5.88	4.64	4.58
10700	4.22	3.50	2.88	2.41	2.16	1.72	1.68	3.06	2.68	3.16	2.90	...	...	...	...	2.07	1.67
11964	7.24	6.42	...	...	<b>5.08<sup>c,d</sup></b>	<b>4.64<sup>c,d</sup></b>	<b>4.53<sup>c,d</sup></b>	5.96	5.56	...	...	6.83	6.23	6.01	5.94	4.53	4.48
16765	6.23	5.71	...	...	<b>4.65<sup>c</sup></b>	<b>4.65<sup>c</sup></b>	<b>4.55<sup>c</sup></b>	...	...	...	...	5.99	5.66	5.56	5.56	4.54	4.45
16895	4.62	4.13	3.67	3.37	3.34	3.07	2.98	...	...	3.94	3.76	...	...	...	...	2.89	2.84
19373	4.65	4.05	3.52	3.23	3.06	2.73	2.69	...	...	3.83	3.63	4.30	3.93	3.78	3.76	2.70	2.64
19994	5.63	5.06	...	...	<b>4.23<sup>c</sup></b>	<b>3.76<sup>c</sup></b>	<b>3.79<sup>c</sup></b>	4.72	4.41	...	...	5.33	4.98	4.86	4.85	3.66	3.64
20630	5.52	4.84	4.27	3.91	3.71	3.35	3.34	4.46	4.12	4.57	4.35	5.14	4.66	4.51	4.46	3.33	3.24
21019	6.90	6.20	...	...	<b>4.97<sup>c</sup></b>	<b>4.59<sup>c</sup></b>	<b>4.45<sup>c</sup></b>	...	...	...	...	6.52	6.04	5.90	5.84	4.42	4.38
22484	4.85	4.28	3.79	3.47	3.29	3.01	2.92	3.95	3.64	...	...	4.54	4.19	4.08	4.07	2.94	2.85
23249	4.46	3.54	2.82	2.32	1.96	1.52	1.40	3.02	2.59	3.15	2.83	3.98	3.32	3.12	3.05	1.46	1.38
30652	3.65	3.19	2.77	2.51	2.35	2.15	2.07	2.92	2.66	3.05	2.89	3.34	3.05	2.98	2.98	2.17	2.08
34411	5.33	4.71	4.18	3.86	3.62	3.33	3.28	...	...	4.45	4.25	...	...	...	...	3.28	3.22
38858	6.61	5.97	...	...	<b>5.33<sup>c</sup></b>	<b>4.61<sup>c</sup></b>	<b>4.44<sup>c</sup></b>	...	...	...	...	6.23	5.78	5.65	5.62	4.42	4.33
39587	5.00	4.41	3.90	3.59	3.34	3.04	2.97	...	...	4.16	3.96	4.66	4.29	4.15	4.13	2.91	2.87
48737	3.79	3.36	2.97	2.74	2.57	<b>1.81<sup>c,d</sup></b>	2.30	...	...	...	...	3.47	3.22	3.18	3.19	2.17	2.24
48915	-1.46	-1.46	-1.46	-1.43	-1.34	-1.33	-1.31	-1.45	-1.44	-1.25	-1.13	...	...	...	...	0.50	-1.33

**Table 7**  
(Continued)

Star	B	V	R <sub>J</sub>	I <sub>J</sub>	J	H	K	R <sub>C</sub>	I <sub>C</sub>	R <sub>K</sub>	I <sub>K</sub>	g <sup>a</sup>	r <sup>a</sup>	i <sup>a</sup>	z <sup>a</sup>	W3 <sup>b</sup>	W4 <sup>b</sup>
49933	6.16	5.77	...	...	4.91	4.71	4.67	...	...	...	...	5.93	5.71	5.67	5.70	4.67	4.58
56537	3.70	3.58	3.46	3.41	<b>3.60<sup>c</sup></b>	<b>3.49<sup>c</sup></b>	<b>3.58<sup>c</sup></b>	...	...	3.64	3.69	3.58	3.69	3.85	3.98	3.32	3.31
58946	4.50	4.18	3.86	3.67	3.58	3.34	3.36	...	...	...	...	4.23	4.13	4.14	4.19	3.28	3.23
61421	0.79	0.37	−0.05	−0.28	−0.40	−0.56	−0.64	0.12	−0.12	0.26	0.12	...	...	...	...	1.15	−0.65
69897	5.61	5.14	...	...	4.17	3.94	3.91	...	...	...	...	5.32	5.07	5.03	5.04	3.89	3.89
75732	6.80	5.94	...	...	4.59	4.14	4.07	...	...	...	...	6.38	5.73	5.54	5.46	4.06	4.01
81937	4.00	3.67	3.33	3.15	3.01	<b>3.04<sup>c,d</sup></b>	2.82	...	...	...	...	...	...	...	...	2.84	2.75
82328	3.64	3.18	2.74	2.47	2.28	2.03	2.02	...	...	...	...	...	...	...	...	1.88	1.94
82885	6.18	5.41	4.79	4.42	4.14	3.77	3.70	...	...	5.06	4.80	5.78	5.22	5.04	4.99	3.63	3.60
86728	6.01	5.35	...	...	<b>4.33<sup>c</sup></b>	<b>4.06<sup>c</sup></b>	<b>3.86<sup>c</sup></b>	...	...	...	...	5.69	5.24	5.11	5.08	3.86	3.82
90839	5.36	4.84	4.36	4.08	3.84	3.58	3.54	...	...	4.64	4.48	5.02	4.70	4.61	4.61	3.56	3.54
95418	2.35	2.37	2.31	2.35	2.35	<b>2.37<sup>c,d</sup></b>	2.35	...	...	...	...	...	...	...	...	2.23	2.11
97603	2.68	2.56	2.43	2.40	2.33	2.27	2.27	...	...	...	...	...	...	...	...	2.46	2.31
101501	6.08	5.34	4.73	4.37	4.02	3.61	3.60	...	...	5.01	4.74	5.64	5.13	5.00	4.95	...	...
102647	2.22	2.14	2.08	2.06	2.03	1.99	1.99	...	...	2.18	2.24	2.20	2.29	2.45	2.59	1.70	1.67
102870	4.15	3.60	3.12	2.84	2.63	2.35	2.33	3.28	2.99	3.39	3.23	3.86	3.50	3.41	3.37	2.31	2.28
103095	7.20	6.45	5.79	5.34	4.95	4.44	4.40	...	...	6.05	5.76	...	...	...	...	...	...
109358	4.86	4.27	3.73	3.42	3.23	2.85	2.84	...	...	4.01	3.80	4.52	4.14	3.99	3.99	2.59	2.78
114710	4.84	4.26	3.77	3.47	3.22	2.95	2.89	...	...	4.05	3.84	4.51	4.14	3.99	3.97	2.94	2.81
117176	5.69	4.98	4.37	3.98	3.65	3.26	3.24	...	...	4.68	4.44	5.30	4.83	4.67	4.61	3.24	3.19
118098	3.50	3.38	3.31	3.25	3.18	3.05	3.06	3.32	3.26	...	...	...	...	...	...	3.03	3.07
120136	4.98	4.50	4.09	3.85	3.61	3.40	3.35	...	...	...	...	4.72	4.44	4.36	4.37	3.33	3.29
121370	3.26	2.68	2.24	1.95	1.70	1.38	1.37	...	...	2.45	2.25	...	...	...	...	1.38	1.37
126660	4.56	4.06	3.64	3.39	3.10	2.86	2.82	...	...	...	...	4.26	3.98	3.90	3.91	2.61	2.78
128167	4.84	4.47	4.13	3.94	3.65	3.50	3.49	...	...	...	...	4.59	4.43	4.43	4.49	3.49	3.44
128620	0.69	0.00	...	...	−1.15	−1.38	−1.49	−0.35	−0.68	−0.30	−0.52	...	...	...	...	−1.96	−1.84
128621	2.25	1.35	...	...	−0.01	−0.49	−0.60	...	...	0.91	0.67	...	...	...	...	...	...
130948	6.41	5.85	...	...	4.79	4.53	4.48	...	...	...	...	6.14	5.76	5.61	5.62	4.47	4.41
131156	5.31	4.54	3.91	3.48	3.01	2.59	2.57	...	...	...	...	...	...	...	...	2.89	2.83
136202	5.60	5.06	4.65	4.38	<b>4.40<sup>c</sup></b>	<b>3.93<sup>c</sup></b>	<b>4.05<sup>c</sup></b>	4.75	4.44	4.92	4.75	5.33	5.00	4.90	4.90	3.76	3.68
140538	6.57	5.88	...	...	<b>4.65<sup>c</sup></b>	<b>4.00<sup>c</sup></b>	<b>4.33<sup>c</sup></b>	5.48	5.12	...	...	6.19	5.74	5.61	5.58	4.17	4.14
141795	3.86	3.70	3.62	3.57	<b>3.62<sup>c</sup></b>	<b>3.44<sup>c</sup></b>	<b>3.47<sup>c</sup></b>	3.65	3.58	...	...	3.74	3.82	3.93	4.01	3.49	3.44
142860	4.34	3.86	3.37	3.13	2.93	2.64	2.65	...	...	3.67	3.53	...	...	...	...	2.71	2.63
146233	6.14	5.51	...	...	<b>4.73<sup>c</sup></b>	<b>4.15<sup>c</sup></b>	<b>4.23<sup>c</sup></b>	5.13	4.79	...	...	5.84	5.38	5.26	5.23	3.99	3.97
150680	3.46	2.81	2.30	1.98	1.70	1.34	1.30	...	...	2.56	2.33	...	...	...	...	1.48	1.35
157214	6.00	5.38	4.87	4.53	4.22	3.86	3.84	...	...	...	...	5.33	5.00	4.90	4.90	3.82	3.79
158633	7.19	6.43	...	...	<b>5.03<sup>c</sup></b>	<b>4.64<sup>c</sup></b>	<b>4.55<sup>c</sup></b>	...	...	...	...	6.79	6.19	5.97	5.90	4.52	4.48
161797	4.17	3.42	2.89	2.51	2.18	1.81	1.77	...	...	3.12	2.88	3.75	3.19	3.01	2.95	1.65	1.75
162003	5.01	4.58	4.20	3.97	3.70	3.47	3.43	...	...	...	...	4.75	4.53	4.50	4.53	3.46	3.39
164259	5.01	4.62	4.29	4.10	3.87	3.70	3.67	4.40	4.18	...	...	4.75	4.60	4.62	4.66	3.69	3.64
168151	5.49	5.09	...	...	4.11	3.88	3.85	...	...	...	...	5.17	4.94	4.90	4.93	3.86	3.82
173667	4.65	4.19	3.80	3.54	3.30	3.08	3.04	...	...	...	...	4.42	4.15	4.11	4.14	3.00	3.02
173701	8.38	7.54	...	...	<b>6.14<sup>c</sup></b>	<b>5.75<sup>c</sup></b>	<b>5.71<sup>c</sup></b>	...	...	...	...	7.96	7.34	7.12	7.03	5.69	5.66
175726	7.29	6.71	...	...	<b>5.76<sup>c</sup></b>	<b>5.42<sup>c</sup></b>	<b>5.39<sup>c</sup></b>	...	...	...	...	...	...	...	...	5.32	4.75
177153	7.77	7.20	...	...	<b>6.20<sup>c</sup></b>	<b>5.93<sup>c</sup></b>	<b>5.87<sup>c</sup></b>	...	...	...	...	7.49	7.11	6.97	6.95	5.85	5.80
177724	3.00	2.99	2.98	2.98	2.93	<b>3.07<sup>c,d</sup></b>	2.92	...	...	3.10	3.17	2.91	3.14	3.34	3.49	2.90	2.94
181420	7.01	6.57	...	...	<b>5.80<sup>c</sup></b>	<b>5.56<sup>c</sup></b>	<b>5.55<sup>c</sup></b>	...	...	...	...	6.77	6.54	6.49	6.53	5.57	5.46
182572	5.94	5.16	...	...	3.84	3.55	3.49	...	...	...	...	5.51	4.93	4.73	4.67	3.53	3.50
182736	7.82	7.01	...	...	<b>5.57<sup>c</sup></b>	<b>5.13<sup>c</sup></b>	<b>5.06<sup>c</sup></b>	...	...	...	...	7.50	6.86	6.65	6.55	5.05	4.98
185395	4.86	4.47	4.12	3.91	3.75	<b>3.73<sup>c,d</sup></b>	3.52	...	...	...	...	4.64	4.50	4.54	4.57	3.47	3.40
186408	6.59	5.95	5.50	5.17	4.91	<b>4.75<sup>c,d,e</sup></b>	4.52	...	...	...	...	6.20	5.79	5.63	5.59	4.44	4.41
186427	6.86	6.20	5.76	5.42	5.04	<b>4.69<sup>c,d</sup></b>	4.65	...	...	...	...	6.48	6.05	5.90	5.86	4.69	4.66
187637	8.04	7.53	...	...	<b>6.60<sup>c</sup></b>	<b>6.35<sup>c</sup></b>	<b>6.32<sup>c</sup></b>	...	...	...	...	7.75	7.46	7.37	7.38	6.32	6.36
188512	4.58	3.72	3.06	2.57	2.26	1.71	1.71	3.26	2.83	3.35	3.04	4.12	3.48	3.29	3.20	1.54	1.50
190360	6.42	5.70	...	...	4.45	4.11	4.05	...	...	...	...	6.08	5.55	5.38	5.33	4.09	4.04
190406	6.41	5.80	...	...	<b>4.74<sup>c</sup></b>	<b>4.43<sup>c</sup></b>	<b>4.43<sup>c</sup></b>	...	...	...	...	6.07	5.69	5.54	5.55	4.38	4.35
195564	6.33	5.65	...	...	<b>4.36<sup>c</sup></b>	<b>3.88<sup>c</sup></b>	<b>4.04<sup>c</sup></b>	5.28	4.92	...	...	6.00	5.50	5.36	5.31	3.97	3.95
198149	4.35	3.43	2.76	2.27	1.90	<b>1.50<sup>c,d</sup></b>	1.28	...	...	3.02	2.69	3.86	3.21	3.00	2.92	1.20	1.19
206860	6.53	5.94	...	...	<b>4.85<sup>c</sup></b>	<b>4.59<sup>c</sup></b>	<b>4.60<sup>c</sup></b>	...	...	...	...	6.22	5.84	5.69	5.70	4.56	4.49
210027	4.20	3.76	3.36	3.11	2.98	2.71	2.66	...	...	...	...	3.96	3.70	3.66	3.68	2.37	2.61
210418	3.62	3.55	3.50	3.46	3.38	3.38	3.33	3.49	3.44	...	...	...	...	...	...	3.32	3.29
213558	3.78	3.77	3.77	3.80	<b>3.89<sup>c</sup></b>	<b>3.87<sup>c</sup></b>	<b>3.90<sup>c</sup></b>	...	...	...	...	...	...	...	...	3.79	3.74
215648	4.69	4.19	3.76	3.45	3.22	<b>3.08<sup>c,d</sup></b>	2.92	...	...	...	...	4.42	4.14	4.06	4.07	2.94	2.89
216956	1.25	1.16	1.10	1.08	1.02	1.05	0.97	1.10	1.08	1.24	1.30	1.32	1.40	1.49	1.58	0.93	0.82
217014	6.17	5.50	4.96	4.62	4.36	4.03	3.99	...	...	...	...	5.77	5.32	5.19	5.16	3.93	3.91
217107	6.90	6.16	...	...	<b>5.01<sup>c</sup></b>	<b>4.78<sup>c</sup></b>	<b>4.57<sup>c</sup></b>	...	...	...	...	6.52	5.99	5.82	5.78	4.53	4.52

**Table 7**  
(Continued)

Star	<i>B</i>	<i>V</i>	<i>R<sub>J</sub></i>	<i>I<sub>J</sub></i>	<i>J</i>	<i>H</i>	<i>K</i>	<i>R<sub>C</sub></i>	<i>I<sub>C</sub></i>	<i>R<sub>K</sub></i>	<i>I<sub>K</sub></i>	<i>g<sup>a</sup></i>	<i>r<sup>a</sup></i>	<i>i<sup>a</sup></i>	<i>z<sup>a</sup></i>	<i>W3<sup>b</sup></i>	<i>W4<sup>b</sup></i>
218396	6.24	5.98	...	...	5.46	5.30	5.28	...	...	...	...	6.05	5.97	5.99	6.04	5.22	4.87
219623	6.10	5.58	...	...	<b>4.93<sup>c</sup></b>	<b>4.63<sup>c</sup></b>	<b>4.37<sup>c</sup></b>	...	...	...	...	5.85	5.52	5.42	5.42	4.30	4.20
222368	4.64	4.13	3.69	3.38	<b>3.36<sup>c</sup></b>	<b>2.98<sup>c</sup></b>	<b>2.99<sup>c</sup></b>	3.84	3.55	3.94	3.75	4.35	4.07	3.99	4.00	2.87	2.88
222603	4.72	4.51	4.33	4.23	4.10	<b>4.22<sup>c,d</sup></b>	4.00	4.39	4.28	...	...	4.55	4.61	4.72	4.80	...	...

**Notes.** Tablemarks c–e all indicate corrected material presented in this erratum. Photometry sources include Johnson et al. (1966, 1968), Epps (1972), Glass (1974, 1975), Guetter (1977), Blackwell et al. (1979, 1990), Noguchi et al. (1981), Sandage & Kowal (1986), Arribas & Martinez Roger (1989), Aumann & Probst (1991), Alonso et al. (1994), Sylvester et al. (1996), Mermilliod (1997), Ducati (2002), Cousins (1980), Kron et al. (1957), and Wright et al. (2010).

<sup>a</sup> Average from Ofek (2008) and Pickles & Depagne (2010).

<sup>b</sup> The *WISE* *W3* and *W4* magnitudes have been filtered to only allow values that have not reached saturation limits (*W3* < 3.8 mag and *W4* < −0.4 mag).

<sup>c</sup> 2MASS magnitudes converted to the Johnson system.

<sup>d</sup> Missing label in original Table 7.

<sup>e</sup> Incorrect input value (*H* = 4.44) was used to derive the value in original Table 7.

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