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THE RADIAL VELOCITIES OF 185 STARS OBSERVED AT THE CAPE

By JOSEPH LUNT

In continuation of a paper on "The Radial Velocities of 119 Stars Observed at the Cape"¹ the radial velocities are here given for a further 185 stars of magnitudes 3.7 to 4.6 observed with a wider slit than was used for the brighter stars in the former list.

As before, the stars are divided into two lists, the first giving the results for those stars which appear to have fairly constant velocities and the second for those stars which are either known or suspected to be variable in velocity. The two lists, given in Tables I and II, contain 122 and 63 stars, respectively.

Owing to the more diffuse character of the spectra taken with the wider slit, a somewhat larger latitude for error has been allowed in assigning the stars to one list or the other. The dividing line has been drawn in an arbitrary manner, and it is probable that stars may have to be removed from one list to the other when further observations are available.

The first list includes all stars showing a range up to 7.7 km per second, or a difference, Lick *minus* Cape, of not more than

¹ *Astrophysical Journal*, 48, 261, 1918.

TABLE I

CAPE LIST NO.	H.R. NO.	STAR	α (1900)	δ (1900)	MAG.	TYPE	STANDARD PLATES USED	NO. OF PLATES	MEAN EPOCH	RADIAL VELOCITIES KM		RANGE KM.	DIFF. (1)-(2) KM	D. O. MILLS EXPEDITION KM
										Lick* (1)	Cape (2)			
1	25	ϵ Phoenicis.....	$0^h 4^m 3$	$-46^{\circ} 18'$	3.94	K	ae	5	1911.62	+9.1	+9.0	3.6	-0.1	-9.1
7	127	β^a Toucani.....	27.0	$-63 31$	4.48	A2	c	1	1908.69	+12.7	+12.7	3.6	-0.7	.....
14	402	θ Ceti.....	1 10.0	$-8 42$	3.83	K	ae	8	1910.67	+17.9	+16.9	3.7	+1.0	.....
17	440	δ Phoenicis.....	27.0	$-49 35$	3.96	K	ae	7	1911.78	+17.0	+17.1	5.0	+1.1	-6.9
21	585	ν Ceti.....	55.3	$-21 34$	4.18	Ma	b	4	1910.03	+18.4	+18.3	3.9	+0.1	.....
27	794	ι Eridani.....	2 36.7	$-40 17$	4.06	K	ade	4	1909.07	+17.5	+16.2	4.2	0.0	-9.0
29	841	β Fornacis.....	44.9	$-32 50$	4.50	K	ae	4	1913.63	+20.6	+19.8	6.3	+1.3	+17.3
30	874	η Eridani.....	51.5	$-9 18$	4.05	K	ae	4	1910.76	+20.0	+20.0	4.9	+0.2	.....
33	963	α Fornacis.....	3 7.8	$-20 23$	3.95	F8	ce	7	1911.83	+20.6	+21.5	5.4	+0.9	-20.8
34	1003	γ^4 Eridani.....	15.1	$-22 7$	3.95	Mb	bd	3	1912.85	+43.0	+30.7	7.0	+3.3	+42.7
35	1008	ϵ Eridani.....	15.9	$-43 27$	4.30	G5	ae	3	1912.23	+87.6	+87.2	2.1	+0.4	.....
38	1100	γ^3 Eridani.....	33.5	$-40 36$	4.58	K	ae	3	1912.02	+10.8	+13.0	5.5	-2.8	.....
39	1173	γ^6 Eridani.....	42.5	$-23 33$	4.33	F8	c	4	1911.15	+7.3	+3.8	5.5	+3.5	.....
41	1195	g Eridani.....	45.7	$-30 30$	4.24	K	ade	4	1912.72	+3.6	+1.1	5.7	+2.5	.....
44	1247	δ Reticuli.....	57.2	$-01 41$	4.41	Ma	bd	2	1913.79	+1.0	+3.1	4.4	+4.1	.....
47	1326	α Horologii.....	4 10.7	$-42 32$	3.83	K	ade	4	1911.47	+21.7	+22.6	5.2	+0.9	+21.4
49	1338	γ Doradus.....	13.4	$-51 44$	4.36	F5	c	4	1912.49	+27.0	+26.5	7.7	+0.5	.....
50	1355	ϵ Reticuli.....	14.7	$-59 32$	4.42	K2	d	4	1916.12	+29.7	+31.3	1.9	+1.6	.....
51	1373	δ Tauri.....	17.2	$+17 18$	3.93	K	ade	4	1914.21	+38.0	+37.1	4.2	+1.5	.....
52	1393	d Eridani.....	20.3	$-34 15$	4.06	K5	ab	4	1913.55	+23.6	+20.2	2.4	-2.6	+22.8
55	1453	ν^2 Eridani.....	29.6	$-29 57$	4.59	K	e	3	1913.96	+21.6	+20.8	1.8	+0.8	.....
57	1464	ν^3 Eridani.....	31.7	$-30 46$	3.88	K	ae	4	1911.58	+3.2	+4.4	3.8	+1.2	-3.2
58	1481	53 Eridani.....	33.6	$-14 30$	3.08	K	ae	5	1911.20	.....	+42.3	3.8	.....	.....
59	1496	54 Eridani.....	36.1	$-19 52$	4.54	Ma	b	3	1914.32	-33.7	-34.3	2.8	+0.6	.....
63	1052	γ Caeli.....	5 0.8	$-35 37$	4.02	K	ae	3	1911.00	+12.4	+8.2	6.0	+4.2	.....
69	1907	ϕ^a Orionis.....	31.4	$+9 15$	4.39	K	ae	4	1911.02	+99.4	+98.4	7.2	+1.0	.....
71	1983	γ Leporis.....	40.3	$-22 29$	3.80	F8	ce	4	1911.13	+9.1	+11.4	6.8	+2.3	-8.9
75	2035	δ Leporis.....	47.0	$-20 53$	3.90	K	ae	5	1910.65	+99.3	+99.0	7.1	+0.3	.....
77	2042	γ Pictoris.....	48.0	$-56 12$	4.38	K	ae	6	1910.45	+18.0	+14.4	3.2	+4.5	.....
79	2085	η Leporis.....	51.9	$-14 11$	3.77	F5	c	6	1910.13	+0.3	+3.5	7.2	+3.8	.....
80	2102	η Doradus.....	53.4	$-63 8$	4.53	K	de	3	1914.73	+25.0	+25.8	5.6	-0.2	.....
81	2120	κ Columbae.....	50.1	$-42 49$	4.03	K	ae	5	1910.70	+17.9	+15.7	4.4	+2.2	+18.7
83	2256	σ^c Can. Maj.....	6 13.0	$-35 6$	4.51	K	ae	3	1912.08	+25.0	+24.0	5.2	+1.6	.....
93	2580	σ^d Can. Maj.....	6 49.9	$-24 4$	4.12	K2	b	4	1911.26	+37.9	+36.0	5.9	+1.9	+21.9
95	2646	σ^e Can. Maj.....	57.7	$-27 47$	3.68	K5	b	7	1911.04	+23.1	+21.1	7.6	+1.0	.....
99	2740	δ Volantis.....	7 16.9	$-46 35$	4.47	F5	c	3	1914.50	+2.3	+0.4	5.9	-1.0	.....
103	2803	ι Geminorum.....	19.3	$+28 0$	4.02	K	de	3	1912.13	+22.7	+21.7	1.5	+1.0	+22.7
104	2821	ν Puppis.....	29.8	$-22 5$	3.89	F8	c	3	1914.83	+60.8	+61.2	1.0	-3.4	.....
106	2900	ν Geminorum.....	29.8	$+27 7$	4.22	K5	d	3	1911.82	+60.8	+61.2	2.1	-3.4	.....
107	2905	α Monocerotis.....	29.8	$+27 7$	4.22	K5	d	3	1916.16	-20.0	-19.3	1.5	-0.7	.....
109	2970	γ Puppis.....	36.5	$-9 19$	4.07	K	ade	4	1912.79	+11.6	+9.4	4.4	+2.2	.....
114	3017	ζ Volantis.....	41.7	$-37 44$	3.72	K5	b	3	1910.84	+18.3	+14.8	3.6	+3.5	.....
115	3024	ι Volantis.....	43.0	$-72 22$	3.80	K	de	3	1911.78	+40.2	+46.7	1.5	+2.5	.....
118	3102	j Puppis.....	52.6	$-22 37$	4.35	F8	c	3	1910.41	+14.7	+12.2	3.9	+2.5	.....
122	3249	β Cancri.....	8 11.1	$+9 30$	3.70	K	ae	3	1912.09	+22.4	+23.3	2.5	-0.9	.....
126	3340	θ Chamaeleontis.....	23.6	$-77 10$	4.26	K	ae	3	1912.22	+23.7	+21.3	4.7	+2.4	.....
128	3426	ϵ Velorum.....	34.2	$-42 38$	4.13	A5	c	3	1913.10	+21.2	+17.1	2.9	+4.1	.....

VELOCITIES OF 185 STARS

120	3438	β Pyxidis.....	36.2	+34 57	4.04	G5	ae	3	I014.45	+15.0	-15.4	I.4	+0.4	-15.3
131	3475	γ Cancri.....	40.6	+29 8	4.20	G5	e	3	I014.91	+15.4	+18.1	I.8	+2.7	.....
132	3475	δ Velorum.....	40.8	+42 17	4.12	G5	ae	3	I012.47	+1.9	-3.1	5.3	-2.7	-1.6
134	3518	γ Pyxidis.....	40.3	-27 21	4.19	K2	b	3	I013.27	+26.4	+24.2	5.4	+2.2	.....
137	3614	ϵ Velorum.....	9	0 7	4.62	K	ae	5	I011.42	+24.3	+24.6	2.9	-0.3	+24.2
141	3696	ϵ Carinae.....	13.4	-57 7	4.18	K5	b	4	I013.03	+4.0	+6.6	5.4	+1.7	-5.3
147	3845	δ Hydrae.....	34.7	-0 41	4.10	K	de	4	I014.50	+24.6	+20.3	5.4	+4.3	.....
151	3995	μ Leonis.....	47.1	+26 29	4.10	K	ae	3	I012.57	+15.5	+13.6	0.9	+1.9	.....
156	4090	η Carinae.....	10	60 50	3.44	K5	ab	3	I011.23	+8.3	+10.1	2.0	-1.8	+8.1
158	4093	ν Velorum.....	15.8	-54 32	4.58	K	ade	3	I013.32	+10.2	+12.9	0.1	+3.3	.....
159	4094	ν Hydrae.....	21.3	-16 20	4.06	K5	ade	3	I012.44	+39.8	+39.5	3.3	+3.8	.....
162	4114	μ Carinae.....	24.2	-58 14	4.08	F	c	3	I014.54	+10.1	+6.3	2.3	+3.8	+10.4
165	4174	γ Chamaeleontis	34.3	-78 6	4.10	Ma	b	3	I014.02	+22.7	-21.2	0.7	-1.5	-22.6
166	4180	ν Velorum.....	35.3	-55 5	4.37	G	de	3	I015.24	+20.9	+17.3	0.7	+3.6	+21.0
170	4287	ν Carinae.....	49.4	-58 19	3.88	K	ae	3	I012.58	+8.8	+8.9	3.0	-0.9	+8.2
171	4287	α Crateris.....	54.9	+17 40	4.20	K	ade	5	I013.39	+47.9	+46.2	4.2	+1.7	.....
176	4399	ι Leonis.....	11	18 7	4.03	F5	c	3	I009.95	-9.9	-7.3	5.2	-2.6	.....
180	4522	ι Centauri.....	41.7	-60 37	4.22	G	e	3	I013.86	-3.5	-4.5	4.6	+1.0	-3.5
184	4608	θ Virginis.....	12	0 1	4.24	G5	e	3	I014.50	-20.4	-28.9	5.3	+0.5	.....
186	4623	ϵ Corvi.....	3-3	-24 10	4.18	F2	c	3	I011.63	+4.2	+3.1	4.3	+1.1	.....
189	4700	ϵ Crucis.....	15.0	-59 51	3.57	K2	b	3	I010.01	+4.5	+3.6	3.8	-0.9	-4.6
197	4910	δ Virginis.....	50.6	+3 56	3.66	Ma	b	3	I013.54	-17.8	-17.1	0.6	-0.5	.....
200	4983	δ Virginis.....	50.6	+3 56	3.66	G	b	3	I016.41	+5.8	+6.2	7.2	-0.4	.....
203	5041	α Centauri.....	13	7 2	4.32	G	ae	3	I012.74	+11.6	+10.7	5.2	+0.9	.....
204	5089	β Centauri.....	17.2	-64 1	4.50	K	e	3	I012.32	-3.0	-1.6	5.8	-1.4	-3.5
207	5102	δ Centauri.....	43.6	+33 58	4.40	Mb	b	1	I012.52	+42.7	+40.2	.....	+2.5	.....
208	5200	ν Bootis.....	44.6	+16 17	4.28	K5	ad	3	I014.07	+6.2	+3.7	0.7	+2.5	.....
213	5359	δ Octantis.....	14	10 9	4.14	K2	b	3	I013.85	+5.1	+2.4	2.7	+2.7	+5.0
219	5470	α Apodis.....	35.4	-78 37	3.81	K5	b	4	I014.02	-0.6	-0.6	1.7	+0.6	+0.4
220	5485	ϵ Centauri.....	37.5	-34 44	4.13	K	ae	4	I010.91	-38.7	-39.7	2.8	+1.0	-38.7
228	5771	ϵ Triang. Aust.	15	27 6	4.11	K	e	4	I013.80	-14.1	-17.0	5.1	+2.9	.....
229	5787	γ Librae.....	29.0	-14 27	4.02	K	ae	4	I012.93	-26.9	-25.0	4.8	+1.1	.....
230	5794	ν Librae.....	30.9	-27 48	3.78	K2	b	3	I012.66	-24.5	-25.1	2.4	+0.6	-25.0
232	5820	ψ Lupi.....	33.5	-34 5	4.63	K	ae	3	I012.45	-20.5	-24.1	4.2	+3.6	.....
236	5879	κ Serpentis.....	44.2	+18 27	4.28	K5	de	3	I015.52	-38.1	-37.9	5.7	-0.2	.....
239	5947	ϵ Coronae Bor.	53.4	+27 10	4.22	K	d	3	I016.52	-31.1	-29.0	2.0	-1.5	.....
240	5977	ξ Scorpii.....	58.9	-11 6	5.07	F8	e	4	I013.21	-32.9	-32.9	5.5	0.0	.....
241	5977	ξ Scorpii.....	58.9	-11 6	4.77	F8	e	4	I013.21	-32.9	-32.9	5.5	0.0	.....
241	5997	ω Scorpii.....	16	1 6	4.58	G	e	3	I014.47	-5.0	-6.5	3.8	+1.5	.....
242	6030	δ Triang. Aust.	6.4	-63 26	4.03	G	ae	3	I011.71	-5.2	-4.3	4.8	-0.0	-5.1
244	6072	γ Normae.....	12.4	-49 55	4.14	K	ae	4	I012.78	-27.8	-20.5	5.1	+1.7	.....
249	6103	β Normae.....	28.8	-77 18	4.10	K	ae	4	I014.41	-27.7	-31.9	4.8	+4.2	.....
250	6166	η Scorpii.....	29.8	-35 3	4.30	Ma	b	3	I014.27	-1.2	-2.5	5.8	+1.3	.....
252	6229	η Arae.....	41.1	-58 52	3.68	K5	b	3	I014.21	+9.7	+7.1	1.8	+2.6	+9.9
254	6271	ζ Arae.....	47.6	-42 12	3.75	K5	b	3	I014.53	-18.4	-20.7	1.2	+2.3	.....
256	6295	ϵ Arae.....	51.6	-53 0	4.15	K2	b	3	I014.63	+24.4	+21.7	4.6	+2.7	.....
264	6402	δ Ophiuchi.....	17	21 0	4.37	F5	ce	3	I015.10	+36.8	+36.8	7.7	+0.3	.....
269	6582	η Pavonis.....	35.9	-64 41	3.58	K	de	3	I015.07	-8.6	-6.0	1.3	-2.6	-8.5
275	6703	ξ Herculis.....	53.9	+29 10	3.82	K	d	3	I016.70	-1.5	+0.5	2.0	-2.0	.....
276	6745	π Pavonis.....	58.9	-63 40	4.44	A5	c	3	I014.50	-19.0	-18.2	0.9	-1.4	-19.5
280	6783	ϵ Telescopii.....	18	3 8	4.60	K	de	3	I016.32	-25.8	-25.9	1.0	+0.1	.....

* Lick Observatory Bulletin, 7, 19-113. † Publications of the Lick Observatory, 9, 329-332. ‡ One plate, October 21, 1908, gives +3.1 km, not included.

TABLE I—Continued

CAPE LIST NO.	H.R. No.	STAR	α (1900)	δ (1900)	MAG.	TYPE	STANDARD PLATES USED	NO. OF PLATES	MEAN EPOCH	RADIAL VELOCITIES KM		RANGE KM	DIFF. (1)-(2) KM	D. O. MILLS EXPEDITION† KM
										Lick* (1)	Cape (2)			
285	6805	109 Hercules	18 ^h 10 ^m 4	+21° 43'	3.92	K	d	3	1916.72	-58.0	-56.3	1.9	-1.7	.....
286	6095	f Telescopii	21.1	-49 7	4.14	K	e	3	1913.89	-39.1	-36.3	2.3	+0.5	-39.1
289	6082	1 Pavonis	31.4	-71 31	4.10	K	e	3	1914.17	-17.0	-16.9	3.0	-0.1	-17.0
290	7061	110 Hercules	41.4	+20 27	4.20	F5	ce	3	1916.03	+22.6	+20.2	1.7	-3.0	.....
293	7217	39 Sagittarii	58.7	-21 53	3.90	K	ae	4	1910.74	+26.2	+24.7	6.5	+1.5	.....
294	{7226}	7 Coron. Aust.	59.7	-37 12	{5.01}	F8	c	3	1915.02	-51.0	-53.7	1.2	+2.7	.....
308	7581	1 Sagittarii	19 48.4	-42 8	4.21	K	e	4	1913.09	+36.2	+36.3	5.5	-0.1	+35.4
300	7602	β Aquilae	50.4	+ 6 9	3.90	K	ae	4	1912.37	-39.6	-39.4	2.7	-0.2	.....
312	7747	α^1 Capricorni	20 12.1	-12 49	4.55	G	ae	3	1913.28	-25.5	-20.9	3.0	+1.4	.....
319	7948	7 Delphini	42.0	+15 40	4.49	G5	de	3	1916.12	- 6.1	- 4.7	3.8	-1.4	.....
324	8181	7 Pavonis	21 18.2	-65 49	4.30	F8	c	3	1913.41	-31.1	-31.5	3.4	+0.4	.....
326	8213	b Capricorni	23.0	-22 15	4.59	G5	ae	4	1916.65	-21.7	-20.9	3.9	-0.8	-39.0
334	8411	λ Gruis	22 0.1	-40 2	4.60	K2	d	4	1916.85	+49.8	+37.5	0.8	+3.3	.....
338	8556	δ^1 Gruis	33.3	-44 0	4.02	G5	e	3	1914.36	+ 5.7	+ 4.6	5.2	+1.1	+ 5.8
341	8630	β Octantis	35.8	-81 54	4.34	F	c	3	1913.81	.....	+19.6	6.7	.....	.....
344	8665	ξ Pegasi	41.0	+11 40	4.31	F5	cd	3	1911.64	- 4.0	- 4.2	4.0	-0.4	.....
345	8667	λ Pegasi	41.7	+23 2	4.14	K	d	3	1916.50	+ 3.6	+ 4.3	4.3	+0.7	.....
347	8679	r Aquarii	44.3	-14 7	4.21	K5	ad	3	1914.66	+11.4	+ 0.5	6.0	+0.9	.....
348	8684	μ Pegasi	45.2	+24 4	3.67	K	de	3	1914.81	+14.2	+15.7	4.0	-1.5	.....
349	8698	λ Aquarii	47.4	- 8 7	3.84	Ma	bd	3	1915.52	- 8.8	- 7.0	2.4	-1.8	.....
351	8720	δ Piscis Aust.	50.4	-33 4	4.33	K	ade	3	1913.41	-12.0	-11.0	2.8	-1.0	-12.0
359	8852	7 Piscium	23 12.0	+ 2 44	3.85	K	ae	0	1910.82	+13.0	-12.9	5.7	-0.7	.....
360	8863	7 Sculpionis	13.4	-33 5	4.51	K	ae	3	1910.82	+18.5	+14.3	4.2	+4.2	.....
361	8892	b ¹ Aquarii	17.7	-20 39	4.20	K	e	3	1912.70	- 5.3	- 6.4	2.9	+1.1	.....
362	8906	b ² Aquarii	20.8	-21 12	4.52	K5	bd	3	1914.85	+16.2	+17.2	5.0	-1.0	.....
		122 stars						422		Means...		3.8 Range	+0.7 Lick-Cape	+0.5 Chile-Cape

* Lick Observatory Bulletin, 7, 19-113.

† Publications of the Lick Observatory, 9, 329-332.

STANDARD PLATES USED

a=solar (daylight) plates
 b= α Tauri plate 2885. Adopted shift { +50.28±0.13 km Simpson.
 c= α Can. Min. plate 2914. Adopted shift { +49.81±0.15 km Jackson.
 d= α Tauri plate 3408. Adopted shift +75.06 Halm.
 e= α_2 Centauri plate 4005. Adopted shift -47.73±0.14 km Jackson.
 f= α Can. Min. plate 2147. Adopted shift -1.22±0.14 km Lunt.

VELOCITIES OF 185 STARS

TABLE II

CAPE LIST NO.	H.R. No.	STAR	α (1900)	δ (1900)	MAG.	TYPE	STANDARD PLATES USED	NO. OF PLATES	RADIAL VELOCITIES KM		RANGE KM		DIFF. (1)-(2) KM	Lick Observatory Bulletin REFERENCE
									Lick* (1)	Cape (2)	Cape	Pub-lished		
3.....	77	ζ Toucani ¹	α 14 ^m 9	-65° 28'	4.34	F8	ce	4	+ 9.3	+ 9.7	8.0	.....	.....	.....
10.....	215	ξ Andromedae.....	42.0	+23 43	4.30	K	e	4	var.	var.	47.1	35.6	-0.4	.....
11.....	224	δ Piscium ¹	43.5	+ 7 2	4.55	K5	ad	3	+32.6	+32.2	8.4	.....	+0.4	6, 141
15.....	420	γ Phoenicis.....	1 24.0	-43 50	3.40	K5	b	6	var.	var.	23.2	34.5	.....	9, 116
18.....	555	ψ Phoenicis ¹	49.6	-46 48	4.41	Mb	bd	3	+ 8.9	+ 3.8	4.2	.....	+5.1	.....
28.....	813	μ Ceti ¹	2 39.5	+ 9 42	4.30	A5	c	3	+20.0	+30.2	9.0	.....	-4.2	.....
36.....	1030	σ Tauri.....	3 19.4	+ 8 41	3.80	G5	ae	6	V_0 -20.0	var.	9.4	10.0	.....	4, 101
40.....	1175	β Reticuli.....	42.9	-65 7	4.04	K	ae	6	V_0 +50.0	var.	6.6	7.4	.....	4, 97
53.....	1411	θ Tauri ¹	4 22.8	+15 44	4.04	K	de	3	+37.5	+46.2	8.0	.....	-8.7	.....
60.....	1502	α Caeli.....	37.3	-42 3	4.52	F2	ce	3	V_0 = 0.0	var.	10.5	14.5	.....	6, 143
67.....	1862	ϵ Columbae.....	5 27.7	-35 33	3.92	K	ae	5	V_0 - 4.1	var.	5.1	7.0	.....	6, 153
70.....	1922	β Doradus.....	6 32.8	-62 33	3.81	F5	ae	5	V_0 +12.1	var.	20.2	27.1	.....	3, 153
82.....	2216	η Geminorum.....	6 8.8	+22 32	var.	Ma	b	4	var.	var.	20.5	11.0	.....	1, 158
85.....	2296	δ Columbae.....	18.4	-33 23	3.98	G5	ae	8	var.	var.	13.3	16.0	.....	3, 110
92.....	2554	A Carinae.....	47.6	-53 31	4.38	G5	ae	4	var.	var.	23.9	45.4	.....	3, 111
96.....	2650	ζ Geminorum.....	58.2	+20 43	var.	G	ae	3	V_0 + 6.8	var.	19.6	30.9	.....	[13, 91 Ap.J.]
110.....	2973	σ Geminorum.....	7 37.0	+20 7	4.26	K	de	4	V_0 +45.8	var.	60.7	75.8	.....	[5, 201 J.R.A.S.C.]
113.....	2006	1 Puppis.....	39.8	-28 43	4.10	A2p	c	5	var.	+25.4	17.4	10.6	.....	6, 145
120.....	3225	h ¹ Puppis.....	8 7.8	-39 19	4.43	K5	bd	4	var.	+13.7	4.7	13.2	.....	6, 55
121.....	3243	h ² Puppis.....	10.5	-40 2	4.43	K	ade	4	var.	var.	22.1	16.5	.....	6, 55
136.....	3591	w Velorum.....	56.3	-40 52	4.42	F8	ce	5	V_0 + 9.1	var.	34.2	10.7	.....	3, 3
138.....	3615	α Volantis.....	9 0.9	-66 0	4.18	A5	cf	4	V_0 + 6.1	var.	24.7	10.8	.....	3, 111
140.....	3643	G Carinae ¹	4.9	-72 12	4.50	F5	c	3	+21.0	+22.4	8.7	.....	-1.4	.....
148.....	3852	14 Leonist ¹	35.8	+10 21	3.76	F5p	c	3	V_0 +27.1	var.	36.2	113.2	.....	5, 21
152.....	3912	m Velorum.....	47.9	-46 5	4.56	G5	ade	4	var.	var.	23.8	10.4	.....	4, 97
153.....	3994	λ Hydrae.....	10 5.7	-11 52	3.83	K	ade	9	V_0 +20.1	+18.8	6.4	9.0	.....	4, 98
160.....	4102	F Carinae ¹	22.4	-73 32	4.08	F5	c	3	+ 3.1	- 2.6	4.1	.....	+5.6	.....
161.....	4104	α Antliae ¹	22.6	-30 34	4.42	K5	b	3	+16.1	+10.7	8.1	.....	+5.3	.....
164.....	4167	p Velorum.....	33.1	-47 42	4.06	F2	ce	6	var.	var.	67.0	50.0	.....	3, 111
167.....	4200	w Carinae ¹	39.7	-60 3	4.40	K5	bd	6	+12.8	+ 7.9	8.4	.....	+4.9	.....
172.....	4337	x Carinae.....	11 4.4	-58 26	4.02	F8p	c	5	V_0 + 8.0	+ 6.1	4.8	14.1	.....	4, 161
175.....	4382	δ Craterist ¹	14.3	-14 14	3.82	K	ade	6	- 4.7	- 7.4	10.8	.....	+2.7	.....
183.....	4599	θ Crucis.....	58.0	-62 45	4.48	A3	c	3	var.	var.	3.5	24.6	.....	6, 56
185.....	4616	η Crucis ¹	12 1.7	-64 3	4.30	F	c	3	+12.0	+11.3	12.5	.....	+0.7	.....
188.....	4671	ϵ Muscae.....	12.1	-67 24	4.16	Mb	b	3	V_0 + 6.1	+ 7.2	8.4	12.3	.....	6, 145
191.....	4775	η Corvi.....	12 26.9	-15 38	4.42	F	c	4	var.	var.	13.2	30.8	.....	5, 175

TABLE II—Continued

CAPE LIST NO.	H.R. No.	STAR	α (1900)	δ (1900)	MAG.	TYPE	STANDARD PLATES USED	NO. OF PLATES	RADIAL VELOCITIES KM		RANGE KM		DIFF. (1)-(2) KM	Lick Observatory Bulletin REFERENCE	
									Lick* (1)	Cape (2)	Cape	Published			
195	4888	e Centauri†	12 ^h 47 ^m 5	-48°24'	4.35	K2	b	3	+0.9	-4.9	6.0		+5.8		
198	4923	δ Muscae†	55.4	-71 1	3.03	K2	b	3	+34.7	var.	17.2				
206	5168	i Centauri†	13 40.0	-32 33	4.36	F5	ce	3	-14.6	var.	28.0				
210	5260	v ² Centauri.	55.4	-45 7	4.39	F5	c	4	var.	var.	12.2	13.2		4, 97	
215	5396	r ² Lupi†	14 19.8	-44 56	4.49	F5	c	3	+7.6	var.	22.5				
227	5747	β Corone Bor.	15 23.7	+29 27	3.72	Fp	c	3	V ₀ -21.3	var.	10.8	6.3		[6, 343 J.R.A.S.C.]	
231	5797	ω Lupi†	31.3	-42 14	4.27	K5	bd	3	-3.4	-9.1	10.1		+5.7		
238	5933	γ Serpentis†	51.8	+15 59	3.86	F8	ae	3	+7.3	+4.4	10.1		+2.9		
246	6102	χ Apollis.	16 18.1	-78 40	3.90	K	ae	3	V ₀ +5.	+6.0	3.9	6.3		5, 177	
265	6546	ζ Scorpii.	17 20.6	-38 34	4.34	K	de	3	V ₀ -47.	-51.3	4.8	10.5		7, 97	
278	6752	70 Ophiuchi	18 0.4	+ 2 31	4.07	K	ae	3	V ₀ -7.4	-6.0	1.9	4.0		5, 63	
282	6855	ξ Pavonis	14.0	-61 33	4.25	K2	d	3	var.	+95.0	5.6	30.6		6, 152	
288	6951	θ Coron. Aust.†	20.4	-42 23	4.09	G5	e	3	+3.3	-5.7	3.5		+0.9		
296	7242	δ Coron. Aust.†	19 1.3	-40 39	4.06	K	ade	3	+23.2	+17.0	2.1		+5.6		
298	7259	β Coron. Aust.†	3.1	-39 30	4.16	G5	ae	3	+3.3	+2.8	8.6		+0.5		
305	7536	δ Sagittae.	42.0	+18 17	3.78	Map	bd	3	V ₀ +3.	-2.2	2.0	15.0		4, 96	
307	7570	η Aquilae.	47.4	+ 0 45	var.	G	ae	3	V ₀ -14.2	-17.4	6.8	42.0		[9, 66 Ap.J.]	
318	7936	ψ Capricorni†	20 40.2	-25 38	4.26	F8	c	4	+26.5	var.	12.3		+6.9		
320	7980	ω Capricorni†	21 45.9	-27 18	4.24	M ₃	bd	3	+12.	+5.1	6.2				
323	8131	α Equule†	21 10.8	+ 4 50	4.14	A8p	ae	3	var.	-12.0	6.9	24.0		1, 159	
328	8254	ν Octantis.	30.4	-77 50	3.74	K	ae	4	V ₀ +31.	+37.0	11.5	12.0		5, 61	
331	8315	κ Pegasi.	40.1	+25 11	4.27	F5	ce	3	V ₀ -5.	var.	57.1	95.1		9, 120	
336	8430	ι Pegasi.	22 2.4	+24 15	3.96	F5	ce	3	V ₀ -4.1	var.	73.9	95.4		2, 109	
340	8560	δ^2 Gruis†	23.8	-44 15	4.31	Mb	bd	4	+5.	+0.7	8.1		+4.3		
353	8747	ζ Gruis.	55.0	-53 17	4.18	G5	ae	3	V ₀ -4.	-4.4	8.9				
357	8820	ι Gruis.	23 4.7	-45 47	4.10	K	ae	3	var.	var.	13.2	16.5		4, 161	
363	9072	ω Piscium†	54.2	+ 0 19	4.03	F5	c	3	-2.4	+9.9	10.1		-12.3		
		63 stars						244							

* Lick Observatory Bulletin, 7, 10, 113.

† Either obviously variable in velocity or suspected.

‡ Measures refer to first component.

V₀ = velocity of the center of mass of the system (estimated or determined).

4.5 km per second. The stars in this list are divided as shown in the following table:

Range		Stars	Diff. Lick <i>minus</i> Cape		Stars
km	km		km	km	
0.0 to 3.0		47	0.0 to 1.0		49
3.1 to 5.0		35	1.1 to 2.0		32
5.1 to 7.0		31	2.1 to 3.0		21
7.1 to 7.7		7	3.1 to 4.0		11
1 plate only		2	4.1 to 4.5		7
		122			120
Mean range, 3.8 km			Mean difference, +0.7 km		

Two-thirds of the stars therefore differ 2.0 km or less from the Lick values, and 85 per cent differ 3.0 km or less; the mean difference, Lick *minus* Cape, is +0.7 km per second.

Forty-one stars common to this list and that published by the D. O. Mills Expedition to Chile¹ show a systematic difference, Chile *minus* Cape, +0.5 km per second. In the previous paper the difference Chile *minus* Cape for 33 stars was -0.3 km per second.

Of the 63 stars in Table II, 39 have already been recorded as variable in velocity; the remaining 24, marked with a dagger, are either obviously variable or belong to the suspected list. For 11 of these latter stars the difference, Lick *minus* Cape, is between 4.9 and 12.3 km, and for the remaining 13 stars the observed range is between 8.0 and 28.0 km.

The results for the individual plates of the stars in Table II are given in Table III.

In some cases in which orbits have been published the measures have been compared with the theoretical velocities by a rough calculation and found to agree satisfactorily

Twenty-eight stars of types A to F5 were rejected, the lines in their spectra being too diffuse or too few to yield satisfactory results with the dispersion employed, and these are given in Table IV.

The measures were made on the Hartmann spectrocomparator by Mr. J. W. Jackson, who measured more than half; the earlier

¹ *Publications of the Lick Observatory*, 9, 329-332.

TABLE III

H.R. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Measured by	H.R. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Measured by
77	2470	ξ <i>Toucani</i>	0 ^h 14 ^m 9	.....	.....	1030	2513	1909 Sept. 22.....	3 ^h 6 ^m	-23.1	S
	4151	1909 Sept. 1.....	1 9	+12.5	S		3824	1912 Sept. 29.....	3 33	-18.2	J
	4152	1913 Oct. 21.....	23 5	+5.2	J		3834	Oct. 4.....	3 48	-17.4	J
	4439	1914 Nov. 7.....	22 36	+13.2	J		3923	Dec. 18.....	2 40	-19.5	J
215	.....	ξ <i>Antromedae</i>	0 ^h 42 ^m 0	+7.9	J	1175	4179	1913 Dec. 19.....	2 29	-26.8	J
	4165	1913 Dec. 1.....	1 45	+6.2	J		2541	1909 Oct. 20.....	4 38	+47.5	S
	4437	1914 Nov. 4.....	23 27	-2.2	J		2816	1910 Sept. 13.....	2 48	+49.6	S
	4440	1914 Nov. 11.....	0 46	-40.9	J		3338	1911 Oct. 31.....	4 32	+47.1	J
	4446	Nov. 18.....	0 46	-28.4	J		3360	Nov. 17.....	4 30	+51.4	J
224	.....	δ <i>Piscium</i>	0 ^h 43 ^m 5	.....	.....	1411	3364	Nov. 29.....	1 35	+53.7	J
	1929	1908 Oct. 3.....	1 52	+36.0	S		3804	1912 Sept. 10.....	4 30	+52.8	J
	2013	Nov. 16.....	1 5	+27.7	H		4169	θ^1 <i>Tauri</i>	4 ^h 22 ^m 8	.....	J
	4665	1915 Dec. 4.....	2 22	+33.1	H		4184	1913 Dec. 8.....	4 6	+41.5	J
429	.....	γ <i>Phoenicis</i>	1 ^h 24 ^m 0	.....	.....	1502	4693	Dec. 27.....	3 52	+49.5	J
	2034	1908 Nov. 27.....	2 1	+8.3	S		2052	1916 Jan. 28.....	5 34	+47.7	J
	2592	1909 Nov. 25.....	2 46	+18.0	S		4690	α <i>Caeli</i>	4 ^h 37 ^m 3	.....	J
	3390	1911 Dec. 11.....	2 16	+31.6	J		4400	1908 Dec. 2.....	5 20	-3.8	S
	3396	Dec. 18.....	2 57	+29.5	J		4690	1914 Dec. 14.....	2 45	+6.7	J
	3800	1912 Sept. 12.....	2 28	+12.7	J		.....	1916 Jan. 25.....	5 32	-0.9	H
	4448	1914 Nov. 19.....	2 8	+20.3	J	1862	.....	ϵ <i>Columbae</i>	5 ^h 27 ^m 7	.....	J
555	.....	ψ <i>Phoenicis</i>	1 ^h 49 ^m 6	.....	.....		2218	1909 Feb. 11.....	7 34	-8.1	S
	4464	1914 Dec. 22.....	3 35	+6.2	J		2222	Feb. 12.....	6 4	-9.1	S
	4670	1915 Dec. 18.....	3 24	+1.9	H		3320	1911 Oct. 24.....	6 10	-4.0	J
	4672	Dec. 22.....	3 20	+3.3	H		3330	Oct. 27.....	4 29	-5.5	J
813	.....	μ <i>Ceti</i>	2 ^h 39 ^m 5	.....	.....		3392	Dec. 14.....	4 6	-7.3	J
	3929	1912 Dec. 19.....	3 0	+31.6	J	1922	.....	β <i>Doradus</i>	5 ^h 32 ^m 8	.....	J
	3932	Dec. 21.....	3 3	+34.0	J		2136	1909 Jan. 18.....	6 42	+0.9	S
	3935	Dec. 23.....	3 26	+25.0	J		2254	Mar. 1.....	6 44	-8.5	S
1030	.....	θ <i>Tauri</i>	3 ^h 19 ^m 4	.....	.....		3859	1912 Oct. 22.....	4 0	+0.7	J
	1921	1908 Sept. 30.....	2 58	-21.2	S		4183	1913 Dec. 23.....	4 1	+11.7	J

TABLE III—Continued

H.R. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Meas-ured by	R.H. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Meas-ured by
3994	2155	1909 Jan. 22.....	0 ^h 52 ^m	+17.7	S	4337	4302	1914 May 2.....	11 ^h 50 ^m	+8.6	J
	2902	1910 Dec. 2.....	8 10	+20.9	S		4307	May 8.....	12 49	+4.6	J
	3036	1911 Mar. 2.....	9 1	+20.5	S		4759	May 1.....	12 32	+3.8	H H
	3531	1912 Mar. 11.....	9 24	+21.8	J J		4764	May 8.....	12 6	+5.2	H H
	3926	Dec. 18.....	8 34	+15.8	J J			δ Crateris.....	11 ^h 14 ^m 3		
	4766	1916 May 10.....	10 57	+19.7	H H		2156	1909 Jan. 22.....	11 11	-9.9	S
	4770	May 15.....	10 34	+20.0	H H		2286	Mar. 21.....	12 5	-7.1	S
4102		<i>I Carinae</i>	10 ^h 22 ^m 4				3467	1912 Feb. 9.....	12 3	-0.1	J
	2351	1909 May 14.....	11 21	-4.0	S		4765	May 9.....	11 51	-10.8	H H
	4265	1914 Mar. 23.....	8 17	+0.2	J J		4773	May 17.....	12 8	-8.3	H H
	4267	Mar. 26.....	8 36	-3.8	J J		4775	May 20.....	12 43	-8.2	H H
4104		<i>a Antliae</i>	10 ^h 22 ^m 6				4198	θ Crucis.....	11 ^h 58 ^m 0		
	2357	1909 May 17.....	11 52	+14.9	S	4599	4198	1914 Jan. 11.....	10 52	-7.3	J
	4269	1914 Mar. 27.....	8 34	+10.4	J J		4266	Mar. 23.....	10 4	-5.4	J
	4304	May 5.....	11 35	+6.8	J J		4268	Mar. 26.....	10 15	-8.9	J
4167		<i>\beta Velorum</i>	10 ^h 33 ^m 1					η Crucis.....	12 ^h 1 ^m 7		
	2239	1909 Feb. 22.....	11 31	+16.6	S		3117	1911 Apr. 28.....	13 30	+16.1	J
	4510	1915 Mar. 5.....	8 1	+39.8	J J		4019	1913 Mar. 26.....	10 38	+14.3	J
	4527	Mar. 25.....	9 37	+39.9	J J		4270	1914 Mar. 27.....	10 51	+3.6	J
	4537	Mar. 31.....	11 16	+32.5	J J			ϵ Muscae.....	12 ^h 12 ^m 1		
	4758	1916 May 1.....	11 2	+2.5	H H		4063	1913 June 20.....	14 45	+4.2	J
	4774	May 20.....	11 14	-27.1	H H		4345	1914 June 30.....	14 28	+4.7	J
4200		<i>w Carinae</i>	10 ^h 39 ^m 7				4544	1915 Apr. 7.....	10 17	+12.6	J
	4545	1915 Apr. 8.....	9 33	+9.0	J		2383	η Corvi.....	12 ^h 26 ^m 9		
	4568	May 29.....	12 54	+2.9	J J		4276	1909 June 14.....	13 21	-1.3	S
	4729	1916 Mar. 20.....	9 8	+10.7	H H		4570	1914 Apr. 2.....	11 0	-2.3	J J
	4731	Mar. 23.....	8 43	+11.3	H H		4763	1915 June 3.....	14 2	+0.9	J J
	4733	Mar. 25.....	8 52	+3.3	H H			1916 May 6.....	11 54	-12.3	H
		<i>x Carinae</i>	11 ^h 4 ^m 4	+10.1	H H		4078	<i>e Centauri</i>	12 ^h 47 ^m 5		
4337	2270	1909 Mar. 8.....	12 43	+8.2	S		4343	1913 July 9.....	14 12	-8.2	J
								1914 June 29.....	14 13	-4.4	J

VELOCITIES OF 185 STARS

4888	4347	1914 July 1.	14 ^h 38 ^m	- 2.2	J	6546	4798	1916 Aug. 3.	16 ^h 25 ^m	-52.1	H
4923	2277	δ Muscae.	12 ^h 45 ^m .4	+47.6	S	6752	2469	70 <i>Ophiuchi</i> .	18 ^h 0 ^m .4	6.1	S
	4075	1909 Mar. 14.	11 32	+30.4	J		4388	1909 Aug. 27.	18 31	8.0	J
5168	4248	1913 June 30.	14 12	+37.8	J	6855	4392	1914 Aug. 12.	19 3	6.7	J
		1914 Mar. 8.	14 3		J			Aug. 19.	18 12		J
	3147	ϵ Centauri.	13 ^h 40 ^m .0		J		4800	ξ Pavonis.	18 ^h 14 ^m .0	+22.6	H
	4080	1911 May 22.	12 37	- 4.2	J		4805	1916 Aug. 8.	16 29	+24.3	H
5260	4549	1913 July 10.	14 44	- 9.8	J	6951	4806	Aug. 10.	16 54	+28.2	H
	4022	1915 Apr. 10.	11 17	-32.2	H			Aug. 15.	16 36		H
	4067	ν^2 Centauri.	13 ^h 55 ^m .4		J		4404	θ Coron. Aust.	18 ^h 26 ^m .4		J
	4351	1913 Mar. 30.	15 36	- 5.8	J	7242	4609	1914 Sept. 14.	19 26	- 7.7	J
5396	4360	June 21.	15 44	- 9.7	J		4613	1915 Sept. 11.	19 58	- 5.3	J
		1914 July 3.	15 2	+ 0.8	J			Sept. 17.	20 12	- 4.2	J
		July 14.	15 35	+ 2.5	J			δ Coron. Aust.	19 ^h 1 ^m .3		J
	2311	r^2 Lupi.	14 ^h 19 ^m .8		S	7259	2794	1910 Aug. 19.	20 2	+18.0	S
5747	3709	1909 Apr. 9.	13 3	+ 9.9	J		4616	1915 Sept. 18.	20 43	+18.5	J
	4086	1912 July 15.	15 13	-12.6	J		4830	1916 Sept. 27.	20 23	+16.4	H
		1913 July 17.	15 23	- 2.8	J			β Coron. Aust.	19 ^h 3 ^m .1		J
	3980	β Coronae.	15 ^h 23 ^m .7		J	7536	2828	1910 Sept. 22.	20 13	+ 7.6	S
	4015	1913 Feb. 19.	14 33	-15.7	J		4393	1914 Aug. 19.	20 7	+ 1.6	J
5797	4785	Mar. 19.	14 46	-22.3	H		4604	1915 Sept. 3.	21 7	- 0.9	J
		1916 June 16.	14 7	-26.5	H		4617	δ Sagittae.	19 ^h 42 ^m .9	- 1.0	J
	2279	ω Lupi.	15 ^h 31 ^m .3		S	7570	4826	1915 Sept. 22.	19 55	- 3.1	H
	4387	1909 Mar. 15.	13 58	- 3.1	J		4831	1916 Sept. 25.	20 21	- 2.5	H
	4788	1914 Aug. 12.	17 9	-13.2	J			Sept. 29.	21 7		J
		1916 June 30.	14 2	-11.0	H			η Aquilae.	19 ^h 47 ^m .4	-13.9	S
	2424	γ Serpentis.	15 ^h 51 ^m .8		S	7936	2801	1910 Aug. 22.	21 6	-20.7	J
	3684	1909 July 17.	16 25	+ 4.8	J		3269	1911 Sept. 6.	19 5	-17.5	J
6102	4374	1912 July 2.	16 13	+ 9.2	J		3775	1912 Aug. 23.	19 58		J
		1914 July 23.	14 52	- 0.9	J			ψ Capricorni.	20 ^h 40 ^m .2	+31.2	S
	2441	γ Apodis.	16 ^h 18 ^m .1		S	7980	2403	1909 July 5.	22 32	+23.4	S
	4259	1909 July 30.	17 15	+ 6.1	J		2820	1910 Sept. 16.	20 7	+18.0	J
	4000	1914 Mar. 15.	16 31	+ 7.9	J		3135	1911 May 11.	20 8	+25.0	J
		1915 Aug. 21.	18 13	+ 3.9	J		3197	June 26.	21 36		J
6546		Q Scorpii.	17 ^h 29 ^m .6		J		4625	ω Capricorni.	20 ^h 45 ^m .9	+ 8.4	J
	4102	1913 Aug. 6.	19 2	-48.5	J		4628	1915 Oct. 8.	22 22	+ 2.2	H
	4352	1914 July 4.	16 5	-53.3	J			Oct. 15.	22 18		H

JOSEPH LUNT

TABLE III—Continued

H.R. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Meas-ured by	H.R. No.	Plate No.	Star and Date	Sid. Time and R.A.	Rad. Vel. km	Meas-ured by
7980	4632	1915 Oct. 19.....	21 ^h 48 ^m	+ 4.6	H	8560	4451	1914 Nov. 24.....	1 ^h 15 ^m	- 1.8.	J
8131	2552	α Equulei.....	21 ^h 10 ^m 8	- 8.1	.....		4645	1915 Nov. 3.....	0 32	- 0.5	H
	2819	1910 Oct. 20.....	22 36	- 15.0	S		4850	1916 Nov. 14.....	1 28	+ 6.3	H
	3840	1912 Sept. 15.....	20 5	- 13.0	S		4851	Nov. 16.....	0 43	- 1.1	H
8254	.....	1912 Oct. 5.....	22 34	.....	J		.....	ζ Gruis.....	22 ^h 55 ^m 0	.....	.....
	2410	ν Octantis.....	21 ^h 30 ^m 4	.....	.....		2463	1909 Aug. 25.....	0 27	- 9.7	S
	2827	1909 July 12.....	22 30	+ 39.7	S		4434	1914 Oct. 28.....	23 54	- 2.6	J
	3301	1910 Sept. 21.....	22 18	+ 30.3	S		4447	Nov. 19.....	0 35	- 0.9	J
	4411	1911 Oct. 7.....	22 36	+ 41.8	J		.....	ι Gruis.....	23 ^h 4 ^m 7	.....	.....
8315	.....	1914 Sept. 18.....	22 46	+ 38.7	J		.....	1908 Nov. 6.....	0 1	+ 2.3	S
	4635	κ Pegasi.....	21 ^h 40 ^m 1	.....	.....		3902	1912 Nov. 19.....	0 28	- 10.9	J
	4640	1915 Oct. 25.....	23 5	- 36.6	H		4175	1913 Dec. 12.....	1 48	- 7.3	J
	4838	1916 Oct. 19.....	22 57	+ 16.8	H		.....	ω Piscium.....	23 ^h 54 ^m 2	.....	.....
8430	.....	1916 Oct. 19.....	22 17	+ 20.5	H		1965	1908 Oct. 21.....	1 8	+ 13.3	S
	4608	ι Pegasi.....	22 ^h 2 ^m 4	.....	.....		2872	1910 Nov. 14.....	23 52	+ 3.3	S
	4626	1915 Sept. 8.....	22 14	+ 14.8	J		3912	1912 Dec. 2.....	1 17	+ 6.3	J
	4636	1915 Oct. 11.....	23 4	- 43.0	J		4435	1914 Oct. 29.....	1 42	+ 13.2	J
8560	.....	Oct. 26.....	22 50	+ 30.9	H		4436	Oct. 31.....	23 57	+ 13.4	J
	.....	δ^2 Gruis.....	22 ^h 23 ^m 8	.....	.....		.....	.....	.....	.....	.....

TABLE IV

Cape List No.	H. R. No.	Star	R. A.	Dec.	Mag.	Type
6.....	100	κ Phoenicis.....	0 ^h 21 ^m 3	-44°14'	3.90	A ₃
23.....	596	α Piscium.....	1 56.9	+ 2 17	4.33	A _{2p}
26.....	705	δ Hydri.....	2 20.0	-69 7	4.26	A ₂
32.....	919	τ^3 Eridani.....	2 58.0	-24 1	4.16	A ₃
46.....	1298	σ^1 Eridani.....	4 7.0	- 7 6	4.14	F ₅
62.....	1560	ω Eridani.....	4 48.0	- 5 37	4.45	A ₅
73.....	2015	δ Doradus.....	5 44.6	-65 46	4.52	A ₅
74.....	2020	β Pictoris.....	5 44.9	-51 6	3.94	A ₃
94.....	2590	π Can. Maj.....	6 51.3	-20 1	4.62	F ₅
123.....	3270	η Puppis.....	8 14.8	-36 21	4.43	A ₅
125.....	3318	α Chamaeleontis.....	8 21.1	-76 36	4.08	F ₅
146.....	3836	M Velorum.....	9 33.3	-48 55	4.49	A ₅
154.....	4023	η Velorum.....	10 10.5	-41 38	4.09	A ₂
173.....	4343	β Crateris.....	11 6.7	-22 17	4.52	A ₂
177.....	4405	γ Crateris.....	11 19.9	-17 8	4.14	A ₂
179.....	4520	λ Muscae.....	11 40.9	-66 10	3.80	A ₅
193.....	4802	τ Centauri.....	12 32.3	-47 59	4.02	A ₂
196.....	4889	η Centauri.....	12 47.9	-39 38	4.34	A ₅
225.....	5670	β Circini.....	15 9.6	-58 26	4.16	A ₃
233.....	5825	η Lupi.....	15 34.3	-44 20	4.69	F
235.....	5867	β Serpentis.....	15 41.6	+15 44	3.74	A ₂
263.....	6486	b Ophiuchi.....	17 20.3	-24 5	4.28	F
279.....	6771	η^2 Ophiuchi.....	18 2.6	+ 9 33	3.73	A ₂
297.....	7254	α Coron. Aust.....	19 2.7	-38 4	4.12	A ₂
300.....	7340	ρ^1 Sagittarii.....	19 15.9	-18 2	3.95	F
301.....	7343	β^2 Sagittarii.....	19 16.0	-44 59	4.51	F
333.....	8368	δ Indi.....	21 51.1	-55 28	4.56	F
358.....	8848	γ Toucani.....	23 11.6	-58 47	4.10	F ₂

plates were measured by Mr. J. A. Simpson, and the later ones by Dr. Halm. In Table III the names of the measurers are indicated by their initials.

Miss M. K. Stephens assisted in compiling the tabular matter.

ROYAL OBSERVATORY, CAPE OF GOOD HOPE

June 20, 1918