
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1873

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	Taylor 11010	7.8	2	0	0	56.67	147	32	37.5	2	0.85
2	21 Androm. α (<i>Alpherat</i>)...	2.1	...	0	1	49.56	61	36	39.3	2	0.87
3	... ..	9.5	1	0	2	20.23	127	27	2.5	2	0.83
4	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	6	41.82	75	31	23.9	2	0.87
5	O. A. N. 317	8.3	1	0	18	6.01	26	3	54.6	1	0.75
6	... ..	8.8	2	0	18	50.52	26	51	2.2	2	0.79
7	... ..	9.7	...	0	19	28.59	26	34	38.8	1	0.86
8	10 Ceti	6.7	...	0	20	6.65	90	45	12.1	1	0.75
9	12 Ceti	6.2	...	0	23	33.41	94	39	34.6	4	0.86
10	... ..	10.4	1	0	25	50.48	76	5	12.9	1	0.88
11	... ..	9.0	2	0	27	10.34	144	51	20.8	2	0.78
12	13 Ceti	5.3	...	0	28	42.60	94	17	34.0	1	0.82
13	16 Ceti β	2.1	...	0	37	12.79	108	41	3.4	6	0.86
14	2 Ursæ Minoris	4.5	...	0	51	46.87	4	25	34.6	4	0.47
15	71 Piscium ϵ	4.5	...	0	56	21.18	82	47	39.4	6	0.89
16	O. A. N. 1303	7.5	2	1	9	28.23	18	16	7.8	2	0.83
17	... ..	8.0	1	1	10	40.01	153	49	15.0	1	0.85
18	R. P. L. 13	7.9	...	1	11	10.94	2	5	58.6	2	0.86
19	... ..	9.3	1	1	12	11.20	152	19	42.0	1	0.96
20	... ..	7.9	5	1	16	38.34	79	49	4.3	5	0.82
21	44 Ceti	7.0	...	1	17	39.33	98	40	7.8	3	0.86
22	45 Ceti θ^1	3.8	...	1	17	40.50	98	50	23.6	4	0.90
23	Stone 553	8.0	2	1	19	13.39	151	17	32.1	2	0.94
24	Lalande 2625	9.2	3	1	20	19.11	79	17	33.8	3	0.95
25	α Eridani (<i>Achernar</i>) ...	1.0	...	1	32	58.97	147	52	58.8	1	0.93
26	106 Piscium ν	4.7	...	1	34	49.28	85	9	22.8	1	0.91
27	6 Arietis β	2.8	...	1	47	37.58	69	48	49.7	3	0.95
28	... ..	9.0	1	1	56	29.74	129	55	55.1	1	0.85
29	... ..	9.3	1	1	56	29.81	129	24	36.2	1	0.85
30	13 Arietis α	2.0	...	2	0	1.00	67	8	21.7	2	0.95
31	... ..	9.3	1	2	1	20.55	149	46	27.7	1	0.93
32	... ..	10.0	1	2	6	22.14	151	21	32.3	1	0.94
33	Bonn +2°. 351	10.0	1	2	7	18.35	87	4	20.2	1	0.93
34	R Arietis, Var. 1	8.1	8	2	8	53.67	65	32	6.9	8	0.84
35	67 Ceti	5.5	...	2	10	38.97	97	0	30.9	4	0.93

47-03

6-7.—Observed for map of Gemma's Nova of 1572.
 10.—Observed for map of T Piscium, Var. 3.
 16.—Observed for map of S Cassiopeæ, Var. 2.
 20-24.—Comparison stars for Asia in 1873.
 33.—Comparison star for Camilla in 1863.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	Taylor 11010 ...	+ 3.0636	- 0.0452	...	- 20.054	+ 0.010	...	...
2	21 Andromedæ α ...	+ 3.0779	+ 0.0182	+ 0.010	- 20.054	+ 0.013	+ 0.16	3215
3	... ..	+ 3.0620	- 0.0207	...	- 20.054	+ 0.013	...	...
4	88 Pegasi γ ...	+ 3.0822	+ 0.0100	- 0.001	- 20.046	+ 0.022	+ 0.01	1
5	O. A. N. 317 ...	+ 3.2879	+ 0.0723	...	- 19.992	+ 0.047	...	...
6	... ..	+ 3.2891	+ 0.0697	...	- 19.987	+ 0.048	...	...
7	... ..	+ 3.2992	+ 0.0710	...	- 19.981	+ 0.049	...	...
8	10 Ceti ...	+ 3.0707	+ 0.0026	+ 0.004	- 19.977	+ 0.047	- 0.01	29
9	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.949	+ 0.055	+ 0.01	38
10	... ..	+ 3.1095	+ 0.0108	...	- 19.927	+ 0.059	...	...
11	... ..	+ 2.8476	- 0.0325	...	- 19.914	+ 0.058	...	...
12	13 Ceti ...	+ 3.0597	+ 0.0014	+ 0.027	- 19.897	+ 0.064	+ 0.02	50
13	16 Ceti β ...	+ 2.9991	- 0.0055	+ 0.015	- 19.791	+ 0.080	- 0.03	70
14	2 Urs. Min. ...	+ 6.9406	+ 1.3261	+ 0.065	- 19.545	+ 0.235	+ 0.01	Main
15	71 Piscium ε ...	+ 3.1133	+ 0.0087	- 0.007	- 19.451	+ 0.119	- 0.04	113
16	O. A. N. 1303 ...	+ 4.2808	+ 0.1510	...	- 19.140	+ 0.194	...	...
17	... ..	+ 2.2471	- 0.0209	...	- 19.108	+ 0.107	...	...
18	R. P. L. 13 ...	+ 14.2167	+ 6.4056	...	- 19.095	+ 0.642	...	...
19	... ..	+ 2.2824	- 0.0202	...	- 19.068	+ 0.111	...	...
20	... ..	+ 3.1508	+ 0.0113	...	- 18.944	+ 0.159	...	...
21	44 Ceti ...	+ 3.0044	+ 0.0019	+ 0.008	- 18.914	+ 0.154	+ 0.06	183
22	45 Ceti θ ¹ ...	+ 3.0031	+ 0.0018	- 0.007	- 18.914	+ 0.154	+ 0.20	184
23	Stone 553 ...	+ 2.2452	- 0.0173	...	- 18.868	+ 0.119	...	...
24	Lalande 2625 ...	+ 3.1590	+ 0.0117	...	- 18.836	+ 0.166	...	...
25	α Eridani ...	+ 2.2316	- 0.0128	+ 0.008	- 18.427	+ 0.137	+ 0.07	Stone
26	106 Piscium ν ...	+ 3.1177	+ 0.0091	- 0.003	- 18.363	+ 0.191	- 0.01	228
27	6 Arietis β ...	+ 3.2946	+ 0.0183	+ 0.005	- 17.884	+ 0.226	+ 0.10	252
28	... ..	+ 2.5275	- 0.0065	...	- 17.520	+ 0.187	...	...
29	... ..	+ 2.5375	- 0.0064	...	- 17.519	+ 0.188	...	...
30	13 Arietis α ...	+ 3.3541	+ 0.0203	+ 0.013	- 17.367	+ 0.252	+ 0.13	287
31	... ..	+ 1.9134	- 0.0028	...	- 17.309	+ 0.148	...	...
32	... ..	+ 1.7897	+ 0.0006	...	- 17.083	+ 0.144	...	...
33	Bonn +2°. 351 ...	+ 3.1081	+ 0.0090	...	- 17.040	+ 0.248	...	...
34	R Arietis, Var. 1 ...	+ 3.3964	+ 0.0216	...	- 16.966	+ 0.270	...	...
35	67 Ceti ...	+ 2.9835	+ 0.0040	+ 0.004	- 16.883	+ 0.242	+ 0.11	321

14.—Proper motions from Main's list.

25.—Proper motions from "Stone's Cape Catalogue."

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
36	22 Arietis θ	5.6	...	2	11	3.73	70	41	15.5	1	0.82
37	73 Ceti ξ^2	4.4	...	2	21	24.52	82	6	37.4	6	0.94
38	B. P. L. 26	8.0	...	2	24	49.37	3	30	28.9	2	0.94
39	86 Ceti γ	3.6	...	2	36	43.22	87	18	1.7	6	0.94
40	Lalande 5483	8.1	2	2	51	33.09	80	18	21.8	2	0.02
41	Lalande 5558	8.4	3	2	53	57.95	80	15	41.7	3	0.03
42	92 Ceti α	2.7	...	2	55	38.51	86	24	35.9	9	0.74
43	25 Persei ρ , Var. 2	4.4	2	2	57	2.81	51	39	13.5	2	0.05
44	Cor. Z. II. 1603	9.0	1	2	59	11.70	130	36	14.1	1	0.05
45	26 Persei β , Var. 1	Var.	...	2	59	54.81	49	32	7.5	3	0.06
46	Taylor 1047	6.0	2	3	0	3.78	151	17	44.3	2	0.45
47	Taylor 1052	5.9	1	3	0	37.57	150	13	53.3	1	0.83
48	Taylor 1057	7.8	1	3	0	58.46	151	20	13.0	1	0.05
49	... ..	10.0	2	3	2	30.22	130	36	50.6	2	0.90
50	57 Arietis δ	4.5	...	3	4	22.15	70	45	19.8	1	0.00
51	Taylor 1081	7.4	1	3	5	24.53	151	38	11.6	1	0.02
52	... ..	8.9	3	3	6	29.68	128	29	59.0	3	0.03
53	... ..	9.4	2	3	7	31.06	145	38	30.1	2	0.05
54	58 Arietis ζ	4.9	...	3	7	36.34	69	25	41.0	2	0.04
55	Taylor 1112	7.9	1	3	10	37.50	129	28	19.9	1	0.05
56	... ..	9.4	2	3	12	43.16	130	8	32.8	2	0.06
57	... ..	8.0	1	3	12	43.38	130	56	8.1	1	0.07
58	... ..	8.6	1	3	12	54.56	129	25	41.8	1	0.07
59	... ..	10.2	3	3	13	9.33	131	44	49.4	3	0.94
60	... ..	8.3	1	3	13	41.40	125	37	52.4	1	0.84
61	61 Arietis τ^1	5.2	...	3	13	53.78	69	18	44.6	2	0.42
62	... ..	9.3	1	3	15	3.10	150	4	20.9	1	0.04
63	... ..	8.3	1	3	15	16.84	151	30	15.0	1	0.04
64	ζ^2 Reticuli	6.5	1	3	15	27.81	152	59	34.3	1	0.92
65	... ..	9.7	1	3	15	44.06	125	39	26.9	1	0.86
66	... ..	8.8	2	3	20	30.66	149	17	1.6	2	0.02
67	... ..	10.0	1	3	21	13.72	54	45	52.8	1	0.88
68	9.5	1	3	23	35.02	130	8	24.0	1	0.07
69	8.8	1	3	23	59.79	126	²² 19	45.8	1	0.06
70	B. P. L. 34	5.8	...	3	25	²¹ 5.38	3	45	33.6	1	0.37

7.01

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40-41.—Comparison stars for Isis in 1872.
 67.—Observed for map of R. Persei, Var. 3.
 70.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	22 Arietis θ ...	+ 3.3258	+ 0.0179	- 0.002	- 16.864	+ 0.269	- 0.01	320
37	73 Ceti ξ^a ...	+ 3.1794	+ 0.0117	+ 0.001	- 16.858	+ 0.276	+ 0.00	347
38	R. P. L. 26 ...	+ 15.9540	+ 3.6852	...	- 16.181	+ 1.382	...	...
39	86 Ceti γ ...	+ 3.1120	+ 0.0094	- 0.011	- 15.546	+ 0.294	+ 0.16	388
40	Lalande 5483 ...	+ 3.2276	+ 0.0124	...	- 14.694	+ 0.327	...	...
41	Lalande 5558 ...	+ 3.2301	+ 0.0124	...	- 14.550	+ 0.330	...	...
42	92 Ceti α ...	+ 3.1303	+ 0.0098	- 0.003	- 14.447	+ 0.323	+ 0.07	428
43	25 Persei ρ , Var. 2 ...	+ 3.6103	+ 0.0332	+ 0.010	- 14.363	+ 0.393	+ 0.09	429
44	Cor. Z. II. 1603 ...	+ 2.2646	+ 0.0003	...	- 14.230	+ 0.239	...	...
45	26 Persei β , Var. 1 ...	+ 3.6783	+ 0.0356	- 0.002	- 14.186	+ 0.405	- 0.01	436
46	Taylor 1047 ...	+ 1.3454	+ 0.0139	...	- 14.176	+ 0.145	...	...
47	Taylor 1052 ...	+ 1.4149	+ 0.0120	...	- 14.141	+ 0.152	...	...
48	Taylor 1057 ...	+ 1.3354	+ 0.0142	...	- 14.121	+ 0.144	...	...
49	... ..	+ 2.2527	+ 0.0004	...	- 14.025	+ 0.241	...	...
50	57 Arietis δ ...	+ 3.4085	+ 0.0171	+ 0.010	- 13.907	+ 0.364	- 0.01	446
51	Taylor 1081 ...	+ 1.2803	+ 0.0156	...	- 13.842	+ 0.141	...	...
52	... ..	+ 2.2991	+ 0.0006	...	- 13.776	+ 0.250	...	...
53	... ..	+ 1.6448	+ 0.0069	...	- 13.708	+ 0.181	...	...
54	58 Arietis ζ ...	+ 3.4386	+ 0.0176	- 0.003	- 13.702	+ 0.373	+ 0.07	451
55	Taylor 1112 ...	+ 2.2534	+ 0.0009	...	- 13.509	+ 0.249	...	...
56	... ..	+ 2.2318	+ 0.0012	...	- 13.372	+ 0.249	...	...
57	... ..	+ 2.2081	+ 0.0011	...	- 13.372	+ 0.246	...	...
58	... ..	+ 2.2523	+ 0.0011	...	- 13.360	+ 0.251	...	...
59	... ..	+ 2.1815	+ 0.0013	...	- 13.341	+ 0.243	...	...
60	... ..	+ 2.3553	+ 0.0011	...	- 13.309	+ 0.263	...	...
61	Arietis τ^1 ...	+ 3.4503	+ 0.0175	+ 0.001	- 13.295	+ 0.332	+ 0.03	465
62	... ..	+ 1.3257	+ 0.0138	...	- 13.219	+ 0.151	...	...
63	... ..	+ 1.2185	+ 0.0166	...	- 13.204	+ 0.140	...	...
64	ζ^2 Reticuli ...	+ 1.0966	+ 0.0203	+ 0.190	- 13.194	+ 0.126	+ 0.65	Stone
65	... ..	+ 2.3490	+ 0.0012	...	- 13.174	+ 0.264	...	...
66	... ..	+ 1.3454	+ 0.0131	...	- 12.856	+ 0.156	...	...
67	... ..	+ 3.3789	+ 0.0279	...	- 12.809	+ 0.431	...	...
68	... ..	+ 2.1974	+ 0.0018	...	- 12.649	+ 0.254	...	...
69	... ..	+ 2.3076	+ 0.0016	...	- 12.621	+ 0.236	...	...
70	R. P. L. 34 ...	+ 13.9438	+ 3.2244	+ 0.136	- 12.544	+ 2.160	+ 0.06	Gr.

64.—Proper motions from "Stone's Cape Catalogue."

70.—Proper motions from "Greenwich Catalogue of 1872."

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
71	... ..	8.3	1	3	25	9.86	128	59	49.5	1	0.04
72	... ..	10.3	1	3	33	57.44	128	28	23.4	1	0.97
73	Lacaille 1198	8.1	2	3	35	28.61	146	33	27.8	2	0.02
74	... ..	8.7	1	3	35	30.55	150	11	30.5	1	0.02
75	Taylor 1256	7.9	3	3	35	38.09	150	11	30.8	3	0.03
76	... ..	9.7	3	3	36	0.47	152	24	38.9	3	0.64
77	... ..	10.3	1	3	36	6.68	129	8	47.3	1	0.93
78	Lacaille 1200	6.8	1	3	36	37.35	146	38	44.8	1	0.06
79	... ..	8.7	1	3	37	10.96	148	25	43.8	2	0.50
80	17 Tauri (<i>Electra</i>)	3.8	...	3	37	20.29	66	17	16.5	1	0.01
81	... ..	8.0	1	3	39	52.22	66	28	48.6	1	0.05
82	25 Tauri η (<i>Alcyone</i>)	3.0	...	3	39	56.16	66	17	23.2	6	0.66
83	30 Tauri ϵ	5.1	...	3	41	18.50	79	14	58.7	1	0.02
84	34 Eridani γ^1	3.0	...	3	52	6.28	103	52	17.5	7	0.57
85	R. P. L. 35	6.7	...	3	57	25.61	4	47	1.8	3	0.03
86	37 Eridani	5.8	...	4	4	11.07	97	15	27.5	1	0.04
87	38 Eridani α^1	4.1	...	4	5	40.01	97	10	13.8	6	0.36
88	U Tauri, Var. 7	9.8	4	4	14	25.12	70	29	20.3	4	0.07
89	74 Tauri ϵ	3.7	...	4	21	12.16	71	6	13.0	5	0.25
90	R Tauri, Var. 2	8.2	3	4	21	20.35	80	7	22.7	3	0.01
91	... ..	10.3	1	4	22	31.94	80	26	49.4	1	0.94
92	... ..	10.2	1	4	22	51.65	80	20	1.6	1	0.95
93	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	28	38.05	73	44	54.1	5	0.25
94	Lacaille 1551—2nd	10.0	1	4	32	19.77	153	5	16.6	1	0.10
95	... ..	9.2	3	4	34	9.99	130	50	37.2	3	0.33
96	... ..	9.6	2	4	34	30.16	130	50	30.2	2	0.48
97	... ..	9.4	2	4	34	41.78	144	54	46.3	2	0.03
98	... ..	10.0	1	4	34	43.19	153	25	43.8	1	0.93
99	95 Tauri	7.0	1	4	35	32.72	66	9	15.9	1	0.04
100	3 Aurigæ	2.7	...	4	48	43.58	57	2	15.3	5	0.06
101	... ..	10.4	1.	4	51	56.05	82	7	41.0	1	0.94
102	R Orionis, Var. 3	9.4	2	4	52	7.32	82	3	56.3	2	0.02
103	7 Aurigæ ϵ , Var. 1.	Var.	...	4	52	51.58	46	22	3.2	4	0.03
104	11 Orionis	4.7	1	4	57	18.77	74	46	30.5	1	0.04
105	104 Tauri m	5.1	...	4	59	56.66	71	31	40.1	1	0.04

91.—Observed for map of R Tauri, Var. 2.

94—98.—Observed for map of R Retouli, Var. 1.

101.—Observed for map of R Orionis, Var. 3.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
71	... ..	+ 2.2273	+ 0.0018	...	- 12.541	+ 0.258	...	...
72	... ..	+ 2.2188	+ 0.0022	...	- 11.982	+ 0.265	...	...
73	Lacaille 1198	+ 1.4373	+ 0.0105	...	- 11.825	+ 0.174	...	...
74	... ..	+ 1.1872	+ 0.0159	...	- 11.823	+ 0.145	...	...
75	Taylor 1256	+ 1.1865	+ 0.0159	...	- 11.814	+ 0.145	...	...
76	... ..	+ 1.0023	+ 0.0207	...	- 11.787	+ 0.123	...	...
77	... ..	+ 2.1914	+ 0.0024	...	- 11.780	+ 0.264	...	...
78	Lacaille 1200	+ 1.4257	+ 0.0107	...	- 11.743	+ 0.173	...	...
79	... ..	+ 1.3056	+ 0.0131	...	- 11.704	+ 0.160	...	...
80	17 Tauri	+ 3.5494	+ 0.0180	- 0.000	- 11.693	+ 0.424	+ 0.04	509
81	... ..	+ 3.5487	+ 0.0176	...	- 11.512	+ 0.428	...	...
82	25 Tauri η	+ 3.5531	+ 0.0177	- 0.000	- 11.508	+ 0.430	+ 0.04	521
83	30 Tauri ϵ	+ 3.2809	+ 0.0115	- 0.001	- 11.409	+ 0.398	+ 0.02	529
84	34 Eridani γ^1	+ 2.7921	+ 0.0077	+ 0.003	- 10.620	+ 0.351	+ 0.11	546
85	R. P. L. 35	+ 16.8164	+ 1.8114	+ 0.057	- 10.222	+ 2.114	- 0.05	Gr.
86	37 Eridani	+ 2.9233	+ 0.0058	- 0.002	- 9.709	+ 0.377	+ 0.02	567
87	38 Eridani σ^1	+ 2.9245	+ 0.0058	- 0.001	- 9.595	+ 0.379	- 0.09	568
88	U Tauri, Var. 7	+ 3.4967	+ 0.0129	...	- 8.916	+ 0.460	...	...
89	74 Tauri ϵ	+ 3.4880	+ 0.0120	+ 0.007	- 8.380	+ 0.466	+ 0.08	609
90	R Tauri, Var. 2	+ 3.2838	+ 0.0092	...	- 8.369	+ 0.439	...	...
91	... ..	+ 3.2771	+ 0.0090	...	- 8.275	+ 0.439	...	...
92	... ..	+ 3.2798	+ 0.0090	...	- 8.248	+ 0.440	...	...
93	87 Tauri α	+ 3.4313	+ 0.0105	+ 0.004	- 7.735	+ 0.464	+ 0.18	630
94	Lacaille 1551—2nd	+ 0.6286	+ 0.0205	...	- 7.487	+ 0.088	...	...
95	... ..	+ 1.9964	+ 0.0040	...	- 7.334	+ 0.274	...	...
96	... ..	+ 1.9958	+ 0.0040	...	- 7.298	+ 0.274	...	...
97	... ..	+ 1.2994	+ 0.0095	...	- 7.293	+ 0.180	...	...
98	... ..	+ 0.5815	+ 0.0209	...	- 7.292	+ 0.082	...	...
99	95 Tauri	+ 3.6235	+ 0.0125	- 0.000	- 7.224	+ 0.495	+ 0.01	652
100	3 Aurigæ ι	+ 3.8975	+ 0.0144	+ 0.001	- 6.137	+ 0.544	+ 0.00	677
101	... ..	+ 3.2489	+ 0.0068	...	- 5.870	+ 0.456	...	...
102	R Orionis, Var. 3	+ 3.2504	+ 0.0068	...	- 5.853	+ 0.456	...	...
103	7 Aurigæ ϵ , Var. 1	+ 4.2926	+ 0.0199	- 0.002	- 5.792	+ 0.602	+ 0.01	690
104	11 Orionis	+ 3.4226	+ 0.0079	- 0.000	- 5.417	+ 0.482	+ 0.08	702
105	104 Tauri m	+ 3.5085	+ 0.0083	+ 0.038	- 5.195	+ 0.495	- 0.02	705

4/

-7.308

85.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
106	2 Leporis ε	3.3	...	5	0	5.08	112	32	35.7	1	0.06
107	103 Tauri	5.5	...	5	0	22.42	65	54	18.8	1	0.04
108	... ..	9.5	2	5	4	49.94	135	33	57.0	2	0.06
109	... ..	9.0	1	5	6	53.38	36	33	53.8	1	0.07
110	R. Aurigæ, Var. 2 ...	8.8	6	5	7	2.91	36	33	35.3	6	0.08
111	19 Orionis β (<i>Rigel</i>) ...	0.9	...	5	8	26.04	98	21	1.2	5	0.04
112	... ..	9.0	1	5	13	20.94	75	4	22.2	1	0.04
113	Bonn +14°. 889	9.5	1	5	14	55.08	75	5	53.7	1	0.04
114	112 Tauri β	1.9	...	5	18	15.94	61	30	9.5	3	0.07
115	... ..	9.2	1	5	18	38.90	121	28	26.0	1	0.03
116	Taylor 1984	7.2	1	5	18	57.75	150	54	18.5	1	0.04
117	Stone 2689	9.0	2	5	19	13.45	148	13	47.1	2	0.05
118	114 Tauri ο	4.8	...	5	20	0.47	68	10	27.0	2	0.09
119	... ..	9.4	3	5	20	2.74	131	3	23.2	3	0.09
120	R. P. L. 40	6.4	...	5	21	32.24	4	52	34.3	2	0.51
121	34 Orionis δ, Var. 1 ...	2.4	...	5	25	31.19	90	23	42.6	2	0.08
122	... ..	8.9	1	5	25	36.69	155	50	53.2	1	0.05
123	... ..	9.1	2	5	26	25.94	121	23	53.1	2	0.10
124	11 Leporis α	2.7	...	5	27	7.79	107	54	54.8	3	0.05
125	46 Orionis ε	1.8	...	5	29	46.17	91	17	7.1	11	0.08
126	123 Tauri ζ	3.0	...	5	30	3.32	68	56	15.3	1	0.04
127	α Columbe	2.7	...	5	35	3.06	124	8	35.7	8	0.06
128	... ..	9.2	5	5	40	1.03	120	59	42.8	5	0.05
129	... ..	9.0	2	5	40	8.85	135	47	53.1	2	0.03
130	... ..	9.0	2	5	40	51.04	120	57	43.7	2	0.06
131	... ..	10.2	1	5	42	17.22	136	4	5.3	1	0.12
132	... ..	9.3	1	5	44	14.08	152	57	51.7	1	0.01
133	54 Orionis χ ¹	4.6	...	5	46	51.93	69	45	0.4	2	0.01
134	58 Orionis α, Var. 2 ...	Var.	...	5	48	17.77	82	37	6.9	4	0.09
135	... ..	8.7	2	5	50	9.14	135	43	0.9	2	0.09
136	... ..	9.5	2	5	51	14.28	130	42	53.8	2	0.13
137	... ..	8.8	2	5	53	19.14	130	24	51.4	2	0.05
138	... ..	7.9	1	5	53	39.62	141	40	4.9	1	0.03
139	... ..	9.2	2	5	53	53.32	121	32	32.5	2	0.10
140	... ..	9.7	1	5	54	49.24	137	45	10.8	1	0.11

109.—Observed for map of R. Aurigæ, Var. 2.

112.—Comparison star for Asia in 1866.

120.—Groombridge 944.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
106	2 Leporis ϵ ...	+ 2.5360	+ 0.0033	+ 0.000	- 5.183	+ 0.359	+ 0.07	718
107	103 Tauri ...	+ 3.6501	+ 0.0097	- 0.001	- 5.160	+ 0.516	0.00	706
108	... ..	+ 1.7480	+ 0.0045	...	- 4.781	+ 0.250	...	...
109	... ..	+ 4.8265	+ 0.0239	...	- 4.600	+ 0.687	...	...
110	R Aurigæ, Var. 2 ...	+ 4.8270	+ 0.0239	...	- 4.592	+ 0.687	...	...
111	19 Orionis β (Rigel) ..	+ 2.8808	+ 0.0040	- 0.001	- 4.474	+ 0.412	- 0.01	736
112	... ..	+ 3.4212	+ 0.0063	...	- 4.054	+ 0.491	...	...
113	Bonn +14°.889 ...	+ 3.4211	+ 0.0062	...	- 3.920	+ 0.491	...	...
114	112 Tauri β ...	+ 3.7860	+ 0.0082	+ 0.001	- 3.632	+ 0.545	+ 0.18	756
115	... ..	+ 2.2670	+ 0.0030	...	- 3.599	+ 0.327	...	...
116	Taylor 1984 ...	+ 0.7081	+ 0.0104	...	- 3.572	+ 0.103	...	...
117	Stone 2839 ...	+ 0.9475	+ 0.0084	...	- 3.549	+ 0.138	...	...
118	114 Tauri σ ...	+ 3.5995	+ 0.0068	- 0.001	- 3.481	+ 0.519	- 0.01	768
119	... ..	+ 1.9255	+ 0.0035	...	- 3.478	+ 0.279	...	...
120	R. P. L. 40 ...	+ 18.5233	+ 0.6435	...	- 3.350	+ 2.665	...	...
121	34 Orionis δ , Var. 1 ...	+ 3.0630	+ 0.0038	- 0.001	- 3.006	+ 0.443	+ 0.01	787
122	... ..	+ 0.1242	+ 0.0143	...	- 2.997	+ 0.019	...	...
123	... ..	+ 2.2648	+ 0.0028	...	- 2.927	+ 0.328	...	...
124	11 Leporis α ...	+ 2.6443	+ 0.0029	- 0.001	- 2.867	+ 0.383	- 0.01	796
125	46 Orionis ϵ ...	+ 3.0424	+ 0.0036	- 0.002	- 2.638	+ 0.441	- 0.01	809
126	123 Tauri ζ ...	+ 3.5828	+ 0.0055	- 0.001	- 2.613	+ 0.519	+ 0.02	800
127	α Columbæ ...	+ 2.1708	+ 0.0027	+ 0.005	- 2.179	+ 0.316	+ 0.03	Stone
128	... ..	+ 2.2721	+ 0.0025	...	- 1.747	+ 0.331	...	...
129	... ..	+ 1.7027	+ 0.0033	...	- 1.735	+ 0.248	...	...
130	... ..	+ 2.2729	+ 0.0026	...	- 1.674	+ 0.331	...	...
131	... ..	+ 1.6886	+ 0.0033	...	- 1.549	+ 0.247	...	...
132	... ..	+ 0.4534	+ 0.0067	...	- 1.379	+ 0.068	...	...
133	54 Orionis χ^1 ...	+ 3.5647	+ 0.0034	- 0.015	- 1.149	+ 0.520	+ 0.10	858
134	58 Orionis α , Var. 2...	+ 3.2451	+ 0.0027	+ 0.001	- 1.023	+ 0.473	- 0.02	860
135	... ..	+ 1.7027	+ 0.0030	...	- 0.861	+ 0.248	...	...
136	... ..	+ 1.9225	+ 0.0027	...	- 0.767	+ 0.280	...	...
137	... ..	+ 1.9343	+ 0.0026	...	- 0.585	+ 0.282	...	...
138	... ..	+ 1.3319	+ 0.0031	...	- 0.555	+ 0.201	...	...
139	... ..	+ 2.2518	+ 0.0024	...	- 0.526	+ 0.328	...	...
140	... ..	+ 1.6006	+ 0.0028	...	- 0.454	+ 0.233	...	...

127.—Proper motions from Stone's Cape Catalogue.

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitudo.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	64 Orionis χ^3	5.1	...	5	55	56.20	70	18	35.4	2	0.04
142	62 Orionis χ^4	4.8	...	5	56	22.58	69	51	40.3	2	0.15
143	1 Geminorum	4.3	...	5	56	23.93	66	43	57.2	4	0.15
144	67 Orionis ν	4.4	...	6	0	19.25	75	13	7.2	6	0.05
145	7 Geminorum η	3.5	...	6	7	12.75	67	27	33.0	5	0.03
146	... ..	9.0	1	6	7	55.32	137	6	29.4	1	0.11
147	Stone 2863	9.5	1	6	8	37.10	155	3	38.9	1	0.12
148	... ..	9.6	3	6	10	9.93	153	14	32.3	3	0.12
149	... ..	9.9	1	6	11	48.28	152	1	56.1	1	0.17
150	... ..	8.7	1	6	12	3.73	121	31	40.6	1	0.06
151	... ..	9.3	2	6	12	16.73	136	50	59.5	2	0.12
152	Lalande 12053	8.6	1	6	12	56.25	68	51	27.5	1	0.07
153	Lalande 12094	8.6	1	6	14	7.32	68	42	11.7	1	0.08
154	13 Geminorum μ	3.2	...	6	15	16.59	67	25	26.7	10	0.08
155	Lalande 12386	7.3	5	6	21	57.13	78	54	6.7	5	0.04
156	Lalande 12419	8.1	5	6	22	39.77	79	15	16.4	5	0.10
157	24 Geminorum γ	2.0	...	6	30	22.43	73	29	41.9	23	0.11
158	31 Geminorum ξ	3.4	...	6	38	9.64	76	58	11.6	1	0.03
159	9 Canis Majoris α (<i>Sirius</i>). — 1.4	...	...	6	39	32.99	106	32	39.7	1	0.96
14.92. 160	51 Cephei (<i>Hev.</i>)	5.3	...	6	40	^{14.12} 15.39	2	45	47.4	7	0.21
161	21 Canis Majoris ϵ	1.5	...	6	53	38.13	118	48	2.7	18	0.10
162	43 Geminorum ζ^2 , Var. I. ..	Var.	...	6	56	34.65	69	14	46.0	1	0.07
163	23 Canis Majoris γ	4.1	...	6	58	0.78	105	26	51.1	12	0.11
164	... ..	9.3	1	7	1	47.75	129	39	58.3	1	0.06
165	... ..	9.0	2	7	3	7.46	141	24	54.3	2	0.12
166	... ..	9.2	1	7	8	8.16	148	46	53.8	1	0.15
167	... ..	8.9	1	7	8	15.31	152	5	53.4	1	0.02
168	... ..	9.7	1	7	10	4.15	130	19	31.1	1	0.15
169	... ..	9.5	2	7	10	34.14	131	53	7.0	2	0.08
170	55 Geminorum δ	3.7	...	7	12	32.17	67	47	11.3	6	0.07
171	60 Geminorum ι	4.0	...	7	17	50.18	61	57	7.9	4	0.12
172	Radcliffe 1959	7.5	1	7	19	17.50	41	49	23.8	1	0.14
173	6 Canis Minoris λ	5.0	...	7	22	43.65	77	43	58.6	1	0.02
174	... ..	9.3	2	7	24	15.08	152	48	18.0	2	0.10
175	... ..	9.4	1	7	25	2.37	130	10	37.6	1	0.07

152—153.—Comparison stars for Ariadne in 1866.

155—156.—Comparison stars for Sappho in 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
141	64 Orionis χ^3 ...	+ 3.5505	+ 0.0022	+ 0.002	- 0.356	+ 0.518	+ 0.01	878
142	62 Orionis χ^4 ...	+ 3.5625	+ 0.0022	0.000	- 0.317	+ 0.519	- 0.01	881
143	1 Geminorum ...	+ 3.6470	+ 0.0021	- 0.001	- 0.315	+ 0.532	+ 0.09	880
144	67 Orionis ν ...	+ 3.4250	+ 0.0017	- 0.000	+ 0.028	+ 0.500	+ 0.01	887
145	7 Geminorum η ...	+ 3.6268	+ 0.0007	- 0.005	+ 0.631	+ 0.529	+ 0.00	909
146	... ..	+ 1.6340	+ 0.0022	...	+ 0.698	+ 0.238	...	...
147	Stone 2863 ...	+ 0.1993	+ 0.0005	...	+ 0.753	+ 0.029	...	...
148	... ..	+ 0.4232	+ 0.0006	...	+ 0.889	+ 0.062	...	...
149	... ..	+ 0.5576	+ 0.0005	...	+ 1.032	+ 0.081	...	...
150	... ..	+ 2.2532	+ 0.0021	...	+ 1.056	+ 0.328	...	...
151	... ..	+ 1.6481	+ 0.0019	...	+ 1.074	+ 0.240	...	...
152	Lalande 12053 ...	+ 3.5883	+ 0.0002	...	+ 1.131	+ 0.523	...	...
153	Lalande 12094 ...	+ 3.5924	0.0000	...	+ 1.228	+ 0.522	...	...
154	13 Geminorum μ ...	+ 3.6268	- 0.0003	+ 0.004	+ 1.330	+ 0.527	+ 0.10	929
155	Lalande 12386 ...	+ 3.3332	- 0.0001	...	+ 1.918	+ 0.483	...	...
156	Lalande 12419 ...	+ 3.3245	- 0.0001	...	+ 1.980	+ 0.481	...	...
157	24 Geminorum γ ...	+ 3.4648	- 0.0015	+ 0.002	+ 2.650	+ 0.500	+ 0.04	969
158	3 Geminorum ξ ...	+ 3.3773	- 0.0017	- 0.009	+ 3.324	+ 0.485	+ 0.20	989
159	9 Canis Majoris α ...	+ 2.6809	- 0.0010	- 0.037	+ 3.443	+ 0.384	+ 1.20	994
160	51 Cephei (<i>Hev</i>) ...	+ 30.3475	- 2.0406	...	+ 3.505	+ 4.356	...	...
161	21 Canis Majoris ϵ ...	+ 2.3572	+ 0.0013	- 0.001	+ 4.650	+ 0.332	- 0.02	1023
162	43 Gemin. ζ^3 , Var. 1. ...	+ 3.5636	- 0.0050	- 0.001	+ 4.900	+ 0.503	- 0.00	1024
163	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	- 0.002	+ 5.022	+ 0.381	+ 0.00	1028
164	... ..	+ 2.0037	+ 0.0011	...	+ 5.342	+ 0.280	...	...
165	... ..	+ 1.4597	- 0.0013	...	+ 5.454	+ 0.203	...	...
166	... ..	+ 0.9629	- 0.0074	...	+ 5.874	+ 0.132	...	...
167	... ..	+ 0.6585	- 0.0102	...	+ 5.884	+ 0.089	...	...
168	... ..	+ 1.9900	+ 0.0009	...	+ 6.036	+ 0.274	...	...
169	... ..	+ 1.9296	+ 0.0007	...	+ 6.077	+ 0.265	...	...
170	55 Geminorum δ ...	+ 3.5910	- 0.0072	- 0.003	+ 6.242	+ 0.495	- 0.00	1062
171	60 Geminorum ι ...	+ 3.7438	- 0.0101	- 0.010	+ 6.681	+ 0.512	+ 0.08	1072
172	Radcliffe 1859 ...	+ 4.4777	- 0.0245	...	+ 6.801	+ 0.611	...	...
173	6 Canis Minoris ...	+ 3.3441	- 0.0052	- 0.001	+ 7.083	+ 0.453	+ 0.00	1085
174	... ..	+ 0.6441	- 0.0135	...	+ 7.208	+ 0.085	...	...
175	... ..	+ 2.0201	+ 0.0009	...	+ 7.272	+ 0.272	...	...

5

Mean Positions of Stars for 1873, January 1st.

Number.	Stars.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
176	... ..	8.8	1	7	26	18.40	142	7	1.2	1	0.04
177	66 Geminor. α^2 (<i>Castor</i>)...	1.6	...	7	26	29.76	57	50	8.0	6	0.31
178	... ..	9.5	2	7	26	55.76	129	46	9.3	2	0.06
179	... ..	9.3	2	7	27	19.09	153	11	51.6	2	0.18
180	74 Geminorum f ...	5.2	...	7	32	8.40	72	2	18.6	1	0.06
181	10 Can. Min. α (<i>Procyon</i>)...	0.5	...	7	32	39.10	84	27	4.9	8	0.11
182	... ..	9.8	2	7	33	11.66	153	12	47.5	2	0.15
183	Stone 3790 ...	10.0	1	7	35	26.17	153	0	47.6	1	0.16
184	... ..	8.2	1	7	35	41.56	144	20	56.2	1	0.17
185	76 Geminorum c ...	5.3	...	7	36	22.11	63	54	56.4	2	0.20
186	Taylor 3195 ...	8.0	2	7	36	40.98	150	20	19.1	2	0.17
187	77 Geminorum κ ...	3.6	...	7	36	46.69	65	17	59.4	1	0.16
188	... ..	7.6	1	7	36	49.36	128	56	26.5	1	0.18
189	Gould 9984 ...	7.7	1	7	37	5.94	130	52	6.2	1	0.19
190	78 Geminorum β (<i>Pollux</i>)...	1.1	...	7	37	32.51	61	40	10.3	2	0.10
191	... ..	8.6	1	7	37	51.61	130	59	19.2	1	0.22
192	... ..	7.9	1	7	38	5.40	128	54	7.7	1	0.12
193	... ..	9.0	1	7	41	52.21	148	9	37.1	1	0.05
194	... ..	8.9	1	7	42	10.21	153	5	39.1	1	0.21
195	Lacaille 3034 ...	8.6	1	7	44	10.58	153	52	58.8	1	0.11
196	... ..	9.0	2	7	44	28.21	130	57	20.2	2	0.13
197	83 Geminorum ϕ ...	4.9	...	7	45	43.33	62	54	28.0	2	0.06
198	... ..	8.6	2	7	47	12.49	153	22	9.6	2	0.12
199	... ..	9.3	1	7	49	1.40	129	56	11.9	1	0.17
200	... ..	9.0	1	7	49	17.78	130	27	27.1	1	0.14
201	... ..	7.0	1	7	49	36.36	152	36	17.0	1	0.18
202	1 Cancri ...	5.9	...	7	49	46.76	73	52	21.2	1	0.14
203	Taylor 3323 ...	7.6	2	7	49	57.63	149	17	7.3	2	0.19
204	... ..	7.9	2	7	50	5.40	149	9	51.7	2	0.20
205	... ..	8.4	2	7	50	23.88	129	39	51.1	2	0.21
206	Gould 10480 ...	8.0	2	7	52	36.43	151	32	5.0	2	0.16
207	5 Cancri ...	6.2	2	7	54	15.91	73	11	49.5	2	0.11
208	6 Cancri ...	5.0	...	7	55	42.97	61	51	7.4	2	0.10
209	... ..	9.6	1	7	56	50.59	129	22	49.1	1	0.16
210	... ..	9.5	2	7	57	43.59	156	25	37.1	2	0.20

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
176	... ..	+ 1.4742	- 0.0024	...	+ 7.375	+ 0.197	...	...
177	66 Geminorum α^3 ...	+ 3.8538	- 0.0133	- 0.015	+ 7.391	+ 0.519	+ 0.08	1087
178	... ..	+ 2.0387	+ 0.0009	...	+ 7.425	+ 0.273	...	...
179	... ..	+ 0.6157	- 0.0146	...	+ 7.456	+ 0.081	...	...
180	74 Geminorum f ...	+ 3.4710	- 0.0078	- 0.002	+ 7.848	+ 0.463	- 0.02	1103
181	10 Canis Minoris α ...	+ 3.1916	- 0.0041	- 0.047	+ 7.888	+ 0.425	+ 1.03	1106
182	... ..	+ 0.6399	- 0.0153	...	+ 7.932	+ 0.083	...	...
183	Stone 3790 ...	+ 0.6712	- 0.0152	...	+ 8.111	+ 0.087	...	...
184	... ..	+ 1.3644	- 0.0041	...	+ 8.132	+ 0.179	...	...
185	76 Geminorum c ...	+ 3.6697	- 0.0124	- 0.003	+ 8.186	+ 0.485	+ 0.03	1109
186	Taylor 3195 ...	+ 0.9305	- 0.0105	...	+ 8.211	+ 0.120	...	...
187	77 Geminorum κ ...	+ 3.6332	- 0.0109	- 0.003	+ 8.219	+ 0.480	+ 0.06	1111
188	... ..	+ 2.0869	+ 0.0010	...	+ 8.223	+ 0.274	...	...
189	Gould 9984 ...	+ 2.0176	+ 0.0009	...	+ 8.244	+ 0.264	...	...
190	78 Geminorum β ...	+ 3.7287	- 0.0128	- 0.048	+ 8.280	+ 0.491	+ 0.05	1112
191	... ..	+ 2.0149	+ 0.0008	...	+ 8.305	+ 0.264	...	...
192	... ..	+ 2.0907	+ 0.0010	...	+ 8.324	+ 0.274	...	...
193	... ..	+ 1.1284	- 0.0078	...	+ 8.624	+ 0.145	...	...
194	... ..	+ 0.6951	- 0.0161	...	+ 8.647	+ 0.088	...	...
195	Lacaille 3034 ...	+ 0.6221	- 0.0180	...	+ 8.804	+ 0.078	...	...
196	... ..	+ 2.0304	+ 0.0008	...	+ 8.828	+ 0.262	...	...
197	53 Geminorum ϕ ...	+ 3.6846	- 0.0130	- 0.002	+ 8.927	+ 0.478	+ 0.03	1128
198	... ..	+ 0.6024	- 0.0170	...	+ 9.043	+ 0.086	...	...
199	... ..	+ 2.0772	+ 0.0010	...	+ 9.184	+ 0.266	...	...
200	... ..	+ 2.0594	+ 0.0010	...	+ 9.204	+ 0.263	...	...
201	... ..	+ 0.7818	- 0.0153	...	+ 9.230	+ 0.098	...	...
202	1 Cancri ...	+ 3.4154	- 0.0084	- 0.003	+ 9.243	+ 0.439	+ 0.03	1138
203	Taylor 3323 ...	+ 1.0759	- 0.0095	...	+ 9.257	+ 0.135	...	...
204	... ..	+ 1.0862	- 0.0092	...	+ 9.267	+ 0.137	...	...
205	... ..	+ 2.0898	+ 0.0011	...	+ 9.290	+ 0.266	...	...
206	Gould 10480 ...	+ 0.8977	- 0.0134	...	+ 9.461	+ 0.112	...	...
207	5 Cancri ...	+ 3.4269	- 0.0090	- 0.002	+ 9.590	+ 0.436	- 0.00	1146
208	6 Cancri ...	+ 3.6982	- 0.0143	- 0.003	+ 9.701	+ 0.468	+ 0.04	1149
209	... ..	+ 2.1144	+ 0.0013	...	+ 9.787	+ 0.265	...	...
210	... ..	+ 0.4036	- 0.0273	...	+ 9.855	+ 0.048	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
211	8 Cancri	5.1	...	7	57	59.85	76	31	19.7	4	0.18
212	... ..	9.5	...	8	1	15.52	69	20	55.3	1	0.20
213	15 Argûs	2.9	...	8	2	8.17	113	56	23.6	5	0.10
214	... ..	9.6	2	8	2	25.70	113	48	19.2	2	0.17
215	14 Cancri ψ^a	5.8	...	8	2	48.08	64	6	34.2	1	0.12
216	... ..	9.7	1	8	4	38.62	154	42	6.7	1	0.16
217	... ..	10.0	1	8	10	15.56	150	48	18.6	1	0.16
218	W. B. N. VIII. 178	9.9	1	8	10	25.74	74	17	50.3	1	0.21
219	... ..	9.7	1	8	10	29.01	150	34	19.1	1	0.22
220	... ..	9.5	2	8	10	35.29	151	27	57.3	2	0.18
221	... ..	8.4	2	8	11	58.99	152	2	56.3	2	0.22
222	19 Cancri λ	5.7	...	8	12	58.85	65	34	47.7	2	0.07
223	... ..	8.4	1	8	13	1.11	130	29	59.7	1	0.18
224	... ..	10.0	1	8	14	37.52	154	6	45.4	1	0.15
225	33 Cancri η	5.5	...	8	25	21.67	69	7	45.2	7	0.16
226	... ..	8.0	2	8	26	20.84	144	59	33.7	2	0.14
227	... ..	9.2	1	8	26	45.14	130	32	17.9	1	0.14
228	... ..	9.3	1	8	29	9.34	75	20	56.1	1	0.17
229	... ..	9.6	2	8	29	18.45	70	42	29.4	2	0.18
230	W. B. N. VIII. 684	8.5	1	8	29	31.90	70	40	44.1	1	0.21
231	11 Hydree ϵ	3.6	...	8	40	2.95	83	7	0.6	15	0.17
232	R. P. L. 60	6.5	...	8	48	26.91	5	18	53.9	4	0.47
233	... ..	10.0	1	8	48	27.70	133	27	9.2	1	0.17
234	T Cancri, Var. 3	9.0	1	8	49	24.74	69	40	0.7	1	0.21
235	... ..	10.3	2	8	51	12.87	98	46	18.5	2	0.23
236	... ..	9.7	2	8	51	35.69	147	16	36.8	2	0.20
237	... ..	9.7	3	8	52	13.20	137	26	44.5	3	0.15
238	... ..	8.0	1	8	55	14.22	142	51	1.6	1	0.15
239	Taylor 3941	8.4	1	8	55	15.74	144	8	29.2	1	0.13
240	69 Cancri ν	5.6	...	8	55	18.57	65	2	56.2	3	0.16
241	... ..	9.9	1	8	56	34.18	146	53	10.6	1	0.20
242	... ..	9.5	1	8	57	3.97	129	20	18.6	1	0.19
243	77 Cancri ξ	5.2	...	9	2	3.25	67	26	33.4	1	0.12
244	... ..	10.4	2	9	9	54.95	78	54	58.4	2	0.23
245	... ..	9.6	1	9	10	27.52	150	27	35.5	1	0.19

218.—Comparison star for Ariadne in 1869.

229—230.—Observed for map of U Cancri, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
211	8 Cancri ...	+ 3.3511	- 0.0079	- 0.002	+ 9.875	+ 0.422	+ 0.06	1156
212	... ..	+ 3.5072	- 0.0113	...	+ 10.123	+ 0.438	...	...
213	15 Argus ...	+ 2.5609	+ 0.0009	- 0.008	+ 10.189	+ 0.318	- 0.06	1170
214	.. ..	+ 2.5646	+ 0.0009	...	+ 10.210	+ 0.318	...	...
215	14 Cancri ψ^2 ...	+ 3.6303	- 0.0140	- 0.007	+ 10.239	+ 0.452	+ 0.35	1167
216	... ..	+ 0.6518	- 0.0217	...	+ 10.377	+ 0.078	...	...
217	... ..	+ 1.0557	- 0.0120	...	+ 10.795	+ 0.125	...	...
218	W. B. N. VIII. 178 ...	+ 3.3888	- 0.0096	...	+ 10.807	+ 0.412	...	...
219	... ..	+ 1.0762	- 0.0116	...	+ 10.810	+ 0.127	...	...
220	... ..	+ 1.0019	- 0.0133	...	+ 10.818	+ 0.118	...	...
221	... ..	+ 0.9590	- 0.0146	...	+ 10.922	+ 0.112	...	...
222	19 Cancri λ ...	+ 3.5799	- 0.0142	- 0.002	+ 10.994	+ 0.431	+ 0.03	1182
223	... ..	+ 2.1173	+ 0.0016	...	+ 10.998	+ 0.253	...	...
224	... ..	+ 0.7792	- 0.0198	...	+ 11.114	+ 0.090	...	...
225	33 Cancri η ...	+ 3.4828	- 0.0129	- 0.004	+ 11.884	+ 0.404	+ 0.05	1207
226	... ..	+ 1.5394	- 0.0036	...	+ 11.953	+ 0.175	...	...
227	... ..	+ 2.1554	+ 0.0022	...	+ 11.981	+ 0.247	...	...
228	... ..	+ 3.3504	- 0.0092	...	+ 12.147	+ 0.384	...	...
229	... ..	+ 3.4443	- 0.0124	...	+ 12.161	+ 0.395	...	...
230	W. B. N. VIII. 684 ...	+ 3.4447	- 0.0124	...	+ 12.177	+ 0.395	...	...
231	11 Hydræ ϵ ...	+ 3.1957	- 0.0071	- 0.014	+ 12.804	+ 0.351	+ 0.02	1343
232	R. P. L. 60 ...	+ 13.7330	- 1.7190	...	+ 13.448	+ 1.480	...	...
233	... ..	+ 2.1326	+ 0.0033	...	+ 13.450	+ 0.225	...	...
234	T Cancri, Var. 3 ...	+ 3.4384	- 0.0141	...	+ 13.511	+ 0.366	...	...
235	... ..	+ 2.9208	- 0.0016	...	+ 13.626	+ 0.307	...	...
236	... ..	+ 1.5481	- 0.0037	...	+ 13.651	+ 0.159	...	...
237	... ..	+ 2.0082	+ 0.0027	...	+ 13.690	+ 0.208	...	...
238	... ..	+ 1.7987	+ 0.0005	...	+ 13.888	+ 0.184	...	...
239	Taylor 3941 ...	+ 1.7375	- 0.0003	...	+ 13.884	+ 0.177	...	...
240	69 Cancri ν ...	+ 3.5209	- 0.0172	...	+ 13.888	+ 0.364	...	...
241	... ..	+ 1.6013	- 0.0026	...	+ 13.966	+ 0.162	...	...
242	... ..	+ 2.2876	+ 0.0040	...	+ 13.997	+ 0.283	...	...
243	77 Cancri ...	+ 3.4613	- 0.0159	- 0.001	+ 14.307	+ 0.348	- 0.03	1280
244	... ..	+ 3.3328	- 0.0121	...	+ 14.781	+ 0.323	...	...
245	... ..	+ 1.4819	- 0.0052	...	+ 14.812	+ 0.140	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitnde.	Estimacions.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
246	... ..	9.8	1	9	11	24.77	70	42	59.8	1	0.26
247	83 Cancri	6.6	...	9	11	53.50	71	45	28.8	4	0.17
248	Argus	2.5	...	9	13	41.21	148	44	37.5	2	0.23
249	... ..	8.9	1	9	15	32.81	143	50	59.1	1	0.20
250	... ..	8.3	2	9	15	58.09	124	49	8.1	2	0.17
251	... ..	9.6	2	9	16	50.76	70	28	59.1	2	0.24
252	... ..	9.4	1	9	16	53.70	124	49	50.2	1	0.28
253	... ..	8.1	3	9	19	53.76	75	8	49.0	3	0.18
254	Lalande 18595	8.8	5	9	20	46.35	66	9	52.5	5	0.20
255	30 Hydræ α , Var. 2 ...	Var.	...	9	21	20.75	98	6	33.5	2	0.16
256	2 Leonis ω	5.6	...	9	21	39.47	80	23	29.2	3	0.21
257	25 Urs. Maj. θ	3.2	...	9	24	21.17	37	44	44.0	1	0.24
258	4 Leonis λ	4.4	...	9	24	28.31	66	28	24.3	3	0.17
259	17 Leonis ϵ	3.1	...	9	38	38.30	65	38	32.9	15	0.20
260	... ..	8.0	1	9	39	55.94	148	36	9.6	1	0.16
261	... ..	8.0	1	9	42	11.35	130	51	51.5	1	0.17
262	Bonn +18°. 2276... ..	9.1	5	9	43	42.04	71	40	25.6	5	0.19
263	... ..	9.5	1	9	44	26.41	148	32	27.7	1	0.28
264	Bonn +18°. 2278... ..	8.7	5	9	44	39.31	71	55	28.8	5	0.18
265	Bonn +18°. 2279... ..	9.1	2	9	44	48.21	72	3	11.9	2	0.21
266	... ..	9.2	1	9	45	19.36	129	49	49.6	1	0.15
267	R. P. L. 70	6.5	...	9	48	^{57.15} 1.91	5	28	20.3	1	0.61
268	W. B. N. IX. 1020	9.0	2	9	48	57.20	71	51	24.9	3	0.25
269	W. B. N. IX. 1047	9.2	3	9	50	2.34	72	20	27.5	3	0.26
270	... ..	10.3	3	9	52	45.61	72	4	14.3	4	0.27
271	29 Leonis π	5.0	...	9	53	30.06	81	20	51.8	4	0.16
272	... ..	9.6	2	9	55	9.88	125	20	0.4	2	0.20
273	W. B. N. IX. 1160	8.9	1	9	55	35.98	73	20	15.2	1	0.24
274	Taylor 4444	6.5	3	9	55	43.91	67	26	23.0	3	0.19
275	... ..	8.7	1	9	56	45.43	144	6	28.8	1	0.23
276	W. B. N. IX. 1189	9.8	1	9	56	57.06	73	10	14.1	1	0.30
277	W. B. N. IX. 1230	9.7	1	9	58	22.20	72	55	4.8	1	0.29
278	30 Leonis η	3.6	...	10	0	24.30	72	37	8.8	1	0.30
279	W. B. N. IX. 1282	9.0	4	10	0	47.78	73	6	15.3	4	0.21
280	32 Leonis α (<i>Regulus</i>) ..	1.4	...	10	1	36.46	77	24	48.6	4	0.19

9 47 59.95

254.—Comparison star for Metis in 1862.
 262—264—265—268—269—270—273—276—277—278—279.—Comparison stars for Mars in 1869.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auvre- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
246	... ..	+ 3.3861	- 0.0140	...	+ 14.869	+ 0.326	...	...
247	83 Cancrī ...	+ 3.3672	- 0.0134	- 0.009	+ 14.897	+ 0.323	+ 0.14	1309
248	Argūs ...	+ 1.6104	- 0.0022	...	+ 15.002	+ 0.150	...	...
249	... ..	+ 1.8688	+ 0.0026	...	+ 15.108	+ 0.174	...	...
250	... ..	+ 2.4620	+ 0.0053	...	+ 15.133	+ 0.229	...	...
251	... ..	+ 3.3818	- 0.0142	...	+ 15.184	+ 0.316	...	...
252	... ..	+ 2.4646	+ 0.0053	...	+ 15.187	+ 0.228	...	...
253	... ..	+ 3.3002	- 0.0116	...	+ 15.361	+ 0.303	...	...
254	Lalande 18595 ...	+ 3.4503	- 0.0173	...	+ 15.406	+ 0.315	...	...
255	30 Hydræ α, Var. 2...	+ 2.9505	- 0.0013	- 0.002	+ 15.439	+ 0.268	- 0.05	1330
256	2 Leonis ω ...	+ 3.2190	- 0.0090	+ 0.002	+ 15.455	+ 0.293	- 0.02	1328
257	25 Ursæ Majoris θ ...	+ 4.1569	- 0.0561	- 0.104	+ 15.605	+ 0.374	+ 0.56	1332
258	4 Leonis λ ...	+ 3.4375	- 0.0172	- 0.002	+ 15.611	+ 0.308	+ 0.03	1335
259	17 Leonis ε ...	+ 3.4223	- 0.0180	- 0.004	+ 16.359	+ 0.282	+ 0.01	1368
260	... ..	+ 1.8152	+ 0.0036	...	+ 16.424	+ 0.145	...	...
261	... ..	+ 2.4180	+ 0.0083	...	+ 16.538	+ 0.193	...	...
262	Bonn + 18°. 2276 ...	+ 3.3203	- 0.0138	...	+ 16.612	+ 0.265	...	...
263	... ..	+ 1.8538	+ 0.0047	...	+ 16.648	+ 0.144	...	...
264	Bonn + 18°. 2278 ...	+ 3.3151	- 0.0136	...	+ 16.658	+ 0.263	...	...
265	Bonn + 18°. 2279 ...	+ 3.3130	- 0.0135	...	+ 16.665	+ 0.262	...	...
266	... ..	+ 2.4540	+ 0.0085	...	+ 16.690	+ 0.192	...	...
267	R. P. L. 70 ...	+ 10.6727	- 1.5626	...	+ 16.815	+ 0.841	...	...
268	W. B. N. IX. 1020 ...	+ 3.3093	- 0.0137	...	+ 16.865	+ 0.255	...	...
269	W. B. N. IX. 1047 ...	+ 3.3008	- 0.0133	...	+ 16.916	+ 0.251	...	...
270	... ..	+ 3.3002	- 0.0134	...	+ 17.042	+ 0.247	...	...
271	29 Leonis π ...	+ 3.1789	- 0.0080	- 0.004	+ 17.076	+ 0.236	+ 0.01	1398
272	... ..	+ 2.5811	+ 0.0086	...	+ 17.152	+ 0.188	...	...
273	W. B. N. IX. 1160 ...	+ 3.2788	- 0.0127	...	+ 17.172	+ 0.240	...	...
274	Taylor 4444 ...	+ 3.3587	- 0.0165	...	+ 17.178	+ 0.245	...	...
275	... ..	+ 2.1260	+ 0.0102	...	+ 17.224	+ 0.152	...	...
276	W. B. N. IX. 1189 ...	+ 3.2790	- 0.0127	...	+ 17.232	+ 0.238	...	...
277	W. B. N. IX. 1230 ...	+ 3.2801	- 0.0129	...	+ 17.296	+ 0.235	...	...
278	30 Leonis η ...	+ 3.2808	- 0.0131	+ 0.001	+ 17.366	+ 0.232	- 0.00	1403
279	W. B. N. IX. 1282 ...	+ 3.2740	- 0.0127	...	+ 17.408	+ 0.231	...	...
280	82 Leonis α (<i>Regulus</i>)	+ 3.2196	- 0.0102	+ 0.018	+ 17.437	+ 0.225	+ 0.02	1406

Mean Positions of Stars for 1873, January, 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
281	... ..	9.8	1	10	2	43.27	123	30	4.7	1	0.24
282	33 Leonis ...	8.0	1	10	3	50.65	73	40	14.9	1	0.24
283	... ..	8.7	1	10	4	49.64	122	56	38.5	1	0.16
284	R. P. L. 72 ...	5.6	...	10	10	50.25	5	6	18.0	4	0.24
285	41 Leonis γ^1 ...	2.2	...	10	12	57.97	69	31	2.5	7	0.18
286	41 Leonis γ^2 ...	4.0	...	10	12	53.37	69	31	3.3	10	0.27
287	47 Leonis ρ ...	4.0	...	10	26	7.38	80	2	26.2	15	0.25
288	... ..	9.0	1	10	26	48.62	152	28	36.6	1	0.17
289	... ..	10.0	1	10	28	22.60	131	44	22.2	1	0.16
290	50 Leonis ...	6.5	...	10	32	5.76	73	12	43.7	2	0.17
291	Stone 5932 ...	9.0	1	10	39	23.69	148	37	1.6	1	0.18
292	... ..	9.2	2	10	39	47.30	139	4	58.0	2	0.20
293	Taylor 4872 ...	8.0	1	10	41	25.34	151	16	23.1	1	0.21
294	... ..	9.7	3	10	41	48.81	146	26	2.5	3	0.29
295	... ..	9.6	1	10	42	16.47	149	25	42.7	1	0.30
296	53 Leonis l ...	5.3	...	10	42	34.32	78	46	59.5	4	0.26
297	Cordoba 14787 ...	10.1	3	10	42	45.96	148	54	11.8	3	0.31
298	... ..	9.8	2	10	42	51.34	75	7	39.2	2	0.33
299	... ..	9.0	1	10	42	59.43	141	7	17.2	1	0.28
300	... ..	8.5	2	10	44	16.45	137	5	39.0	2	0.21
301	... ..	9.6	2	10	47	20.88	141	47	42.2	2	0.22
302	... ..	8.6	1	10	48	14.15	150	8	27.2	1	0.20
303	... ..	9.3	2	10	48	18.11	147	44	55.7	2	0.25
304	R. P. L. 79 ...	7.7	...	10	57	40.53	1	40	16.9	3	0.64
305	63 Leonis χ ...	4.7	...	10	58	27.89	81	58	40.1	12	0.27
306	65 Leonis ψ^4 ...	5.7	...	11	0	25.60	87	21	^{21.0} 23.9	2	0.20
307	... ..	9.6	2	11	0	59.29	147	16	39.2	2	0.26
308	... ..	8.4	2	11	1	25.73	135	36	31.9	2	0.22
309	... ..	8.2	1	11	2	11.51	149	16	38.7	1	0.28
310	... ..	8.2	1	11	2	20.30	148	59	7.4	1	0.20
311	S Leonis, Var. 2 ...	10.3	4	11	4	16.39	83	51	4.0	4	0.33
312	... ..	8.8	3	11	4	42.70	150	17	28.5	3	0.28
313	Taylor 5088 ...	7.7	1	11	5	13.17	149	41	47.2	1	0.28
314	... ..	10.3	1	11	6	9.32	83	53	20.6	1	0.33
315	Taylor 5108 ...	5.6	1	11	7	9.70	149	37	41.4	1	0.24

[21.0]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
281	...	+ 2.6388	+ 0.0084	...	+ 17.486	+ 0.182	...	...
282	33 Leonis ...	+ 3.2623	- 0.0123	+ 0.005	+ 17.534	+ 0.223	+ 0.01	Gr.
283	...	+ 2.6549	+ 0.0089	...	+ 17.575	+ 0.179	...	...
284	R. P. L. 72 ...	+ 9.9389	- 1.6311	- 0.096	+ 17.822	+ 0.656	- 0.04	1399
285	41 Leonis γ^1 ...	+ 3.2970	- 0.0148	+ 0.021	+ 17.907	+ 0.208	+ 0.14	1432
286	41 Leonis γ^2 ...	+ 3.2969	- 0.0148	+ 0.021	+ 17.907	+ 0.208	+ 0.14	1432
287	47 Leonis ρ ...	+ 3.1657	- 0.0080	- 0.001	+ 18.395	+ 0.176	- 0.01	1467
288	...	+ 2.0575	+ 0.0154	...	+ 18.419	+ 0.111	...	...
289	...	+ 2.6078	+ 0.0145	...	+ 18.473	+ 0.140	...	...
290	50 Leonis ...	+ 3.2231	- 0.0119	+ 0.002	+ 18.602	+ 0.168	+ 0.01	1478
291	Stone 5982 ...	+ 2.3172	+ 0.0213	...	+ 18.827	+ 0.109	...	...
292	...	+ 2.5432	+ 0.0191	...	+ 18.838	+ 0.119	...	...
293	Taylor 4872 ...	+ 2.2521	+ 0.0220	...	+ 18.887	+ 0.102	...	...
294	...	+ 2.3978	+ 0.0218	...	+ 18.898	+ 0.109	...	...
295	...	+ 2.3193	+ 0.0223	...	+ 18.912	+ 0.105	...	...
296	53 Leonis l ...	+ 3.1601	- 0.0080	- 0.002	+ 18.921	+ 0.145	+ 0.02	1500
297	Cordoba 14787 ...	+ 2.3393	+ 0.0226	...	+ 18.926	+ 0.105	...	...
298	...	+ 3.1895	- 0.0104	...	+ 18.929	+ 0.147	...	...
299	...	+ 2.5255	+ 0.0205	...	+ 18.933	+ 0.114	...	...
300	...	+ 2.6056	+ 0.0198	...	+ 18.969	+ 0.116	...	...
301	...	+ 2.5427	+ 0.0218	...	+ 19.055	+ 0.108	...	...
302	...	+ 2.3548	+ 0.0246	...	+ 19.080	+ 0.098	...	...
303	...	+ 2.4202	+ 0.0242	...	+ 19.081	+ 0.101	...	...
304	R. P. L. 79 ...	+ 15.3575	- 8.8824	...	+ 19.321	+ 0.593	...	...
305	63 Leonis χ ...	+ 3.1221	- 0.0056	- 0.026	+ 19.336	+ 0.113	+ 0.02	1535
306	65 Leonis p^4 ...	+ 3.0881	- 0.0028	- 0.029	+ 19.381	+ 0.109	+ 0.06	1539
307	...	+ 2.5424	+ 0.0282	...	+ 19.393	+ 0.087	...	...
308	...	+ 2.7270	+ 0.0216	...	+ 19.402	+ 0.093	...	...
309	...	+ 2.5108	+ 0.0297	...	+ 19.420	+ 0.084	...	...
310	...	+ 2.5188	+ 0.0296	...	+ 19.423	+ 0.084	...	...
311	S. Leonis, Var. 2 ...	+ 3.1068	- 0.0044	...	+ 19.465	+ 0.101	...	...
312	...	+ 2.5125	+ 0.0313	...	+ 19.473	+ 0.080	...	...
313	Taylor 5088 ...	+ 2.5315	+ 0.0312	...	+ 19.486	+ 0.080	...	...
314	...	+ 3.1056	- 0.0043	...	+ 19.503	+ 0.098	...	...
315	Taylor 5108 ...	+ 2.5509	+ 0.0319	...	+ 19.523	+ 0.077	...	...

282.—Proper motions from "Greenwich Catalogue, 1872".

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
316	...	9.0	3	11	7	19.68	65	27	58.4	3	0.32
317	68 Leonis δ	2.8	...	11	7	21.03	68	46	51.7	3	0.30
318	Taylor 5107	6.6	3	11	7	25.86	81	14	39.6	3	0.28
319	...	9.9	2	11	9	52.42	145	58	12.1	2	0.32
320	...	9.2	2	11	10	7.93	147	17	56.3	2	0.27
321	...	8.5	1	11	10	48.87	148	58	46.3	1	0.19
322	12 Crateris δ	3.9	...	11	12	59.51	104	5	30.4	5	0.29
323	77 Leonis σ	4.1	...	11	14	35.34	83	16	30.5	3	0.20
324	78 Leonis ι	4.0	...	11	17	18.27	78	46	17.4	1	0.18
325	O. A. N. 11812	8.6	1	11	23	41.61	23	0	43.0	1	0.23
326	...	10.0	1	11	23	54.32	23	24	7.5	1	0.29
327	...	9.3	2	11	25	46.97	128	29	45.3	2	0.24
328	...	9.6	2	11	25	53.82	22	58	59.0	2	0.29
329	...	10.0	1	11	26	13.85	128	25	44.5	1	0.31
330	...	9.0	1	11	26	40.36	143	54	16.7	1	0.31
331	...	10.5	2	11	26	55.24	151	40	53.6	2	0.35
332	Cordoba 15790	9.0	1	11	27	0.95	151	7	2.5	1	0.33
333	...	10.2	1	11	27	8.07	151	44	33.5	1	0.31
334	...	10.0	1	11	27	11.46	23	20	30.4	1	0.32
335	...	10.1	2	11	27	16.07	151	34	1.7	2	0.34
336	...	9.3	2	11	27	28.53	23	0	30.9	2	0.34
337	91 Leonis ν	4.5	...	11	30	26.82	90	7	21.5	5	0.28
338	...	9.1	3	11	33	31.93	144	54	36.7	3	0.27
339	W. B. E. XI. 582	9.9	7	11	34	25.56	84	20	38.5	7	0.32
340	2 Virginis ξ	4.9	...	11	38	44.29	81	2	9.9	3	0.22
341	4 Virginis A ¹	5.2	...	11	41	23.45	81	2	55.5	3	0.23
342	...	9.8	3	11	42	2.16	84	34	38.0	3	0.31
343	94 Leonis β	2.2	...	11	42	34.85	74	43	4.9	7	0.30
344	Bonn +5°. 2550	9.9	5	11	44	34.80	84	47	51.9	5	0.32
345	64 Ursæ Majoris γ	2.6	...	11	47	8.54	35	35	56.7	5	0.34
346	W. B. E. XI. 805	8.2	5	11	47	53.24	85	15	22.6	5	0.23
347	Bonn +4°. 2550	10.3	3	11	51	0.76	85	22	20.1	3	0.29
348	7 Virginis b	5.2	...	11	53	26.74	85	38	16.8	1	0.21
349	Taylor 6413	9.0	1	11	54	40.18	85	36.9	35.7	1	0.24
350	Bonn +3°. 2592	9.4	3	11	57	44.90	86	23	25.0	3	0.35

3.51

44.30

316.—Comparison star for Thalia in 1862.

325—326—334.—Comparison stars for Comet 2, 1861.

339—342—344—346—347.—Comparison stars for Mars in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
316	... ..	+ 3·2113	- 0·0156	...	+ 19·527	+ 0·100	...	...
317	68 Leonis δ ...	+ 3·1904	- 0·0132	+ 0·010	+ 19·528	+ 0·098	+ 0·12	1546
318	Taylor 6007 ...	+ 3·1190	- 0·0055	...	+ 19·529	+ 0·095	...	...
319	... ..	+ 2·6427	+ 0·0304	...	+ 19·577	+ 0·076	...	...
320	... ..	+ 2·6226	+ 0·0315	...	+ 19·583	+ 0·074	...	...
321	... ..	+ 2·5988	+ 0·0328	...	+ 19·594	+ 0·073	...	...
322	12 Crateris δ ...	+ 3·0038	+ 0·0064	- 0·011	+ 19·634	+ 0·081	- 0·21	1557
323	77 Leonis σ ...	+ 3·1032	- 0·0042	- 0·007	+ 19·662	+ 0·081	0·00	1558
324	78 Leonis ι ...	+ 3·1213	- 0·0064	+ 0·009	+ 19·707	+ 0·076	+ 0·06	1560
325	O. A. N. 11812 ...	+ 3·5689	- 0·0930	...	+ 19·803	+ 0·075	...	...
326	... ..	+ 3·5567	- 0·0905	...	+ 19·806	+ 0·074	..	...
327	... ..	+ 2·9141	+ 0·0210	...	+ 19·831	+ 0·055	...	...
328	... ..	+ 3·5395	- 0·0913	...	+ 19·833	+ 0·068	...	...
329	... ..	+ 2·9165	+ 0·0211	...	+ 19·837	+ 0·054	...	...
330	... ..	+ 2·8065	+ 0·0335	...	+ 19·843	+ 0·051	...	...
331	... ..	+ 2·7153	+ 0·0424	...	+ 19·846	+ 0·048	...	...
332	Cordoba 15790 ...	+ 2·7247	+ 0·0415	...	+ 19·847	+ 0·049	...	...
333	... ..	+ 2·7167	+ 0·0425	...	+ 19·848	+ 0·048	...	...
334	... ..	+ 3·5142	- 0·0889	...	+ 19·849	+ 0·065	...	...
335	... ..	+ 2·7207	+ 0·0423	...	+ 19·850	+ 0·048	...	...
336	... ..	+ 3·5175	- 0·0899	...	+ 19·854	+ 0·063	..	...
337	91 Leonis ν ...	+ 3·0718	+ 0·0003	- 0·002	+ 19·888	+ 0·049	- 0·05	1586
338	... ..	+ 2·8529	+ 0·0367	...	+ 19·921	+ 0·039	...	...
339	W. B. E. XI. 582 ...	+ 3·0869	- 0·0024	...	+ 19·930	+ 0·041	...	...
340	2 Virginis ξ ...	+ 3·0917	- 0·0040	+ 0·004	+ 19·968	+ 0·033	+ 0·01	1599
341	4 Virginis A ¹ ...	+ 3·0893	- 0·0039	- 0·005	+ 19·988	+ 0·027	- 0·02	1602
342	... ..	+ 3·0821	- 0·0020	...	+ 19·993	+ 0·026	...	...
343	94 Leonis β ...	+ 3·0999	- 0·0074	- 0·036	+ 19·996	+ 0·025	+ 0·10	1605
344	Bonn +5°. 2550 ...	+ 3·0803	- 0·0017	...	+ 20·010	+ 0·021	...	...
345	64 Ursæ Majoris γ ...	+ 3·1769	- 0·0433	+ 0·010	+ 20·024	+ 0·017	- 0·01	1608
346	W. B. E. XI. 805 ...	+ 3·0780	- 0·0013	...	+ 20·027	+ 0·014	...	...
347	Bonn +4°. 2550 ...	+ 3·0704	- 0·0010	...	+ 20·039	+ 0·008	...	...
348	7 Virginis β ...	+ 3·0751	- 0·0008	- 0·002	+ 20·047	+ 0·005	- 0·02	1617
349	Taylor 6413 ...	+ 3·0745	- 0·0007	...	+ 20·049	+ 0·001	...	...
350	Bonn +3°. 2592 ...	+ 3·0730	- 0·0001	...	+ 20·054	- 0·005	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
	351 O. A. S. 11872	8.5	5	11	57	46.67	110	19	54.6	5	0.33
	352 Taylor 6440	8.1	6	11	58	12.92	85	43	6.9	6	0.35
	353 R. P. L. 89	6.3	...	11	58	21.11	3	42	31.5	2	0.49
	354 W. B. E. XI. 986	9.0	9	11	58	35.10	85	54	57.6	9	0.29
	355 9 Virginis ϵ	4.3	...	11	58	44.29	80	33	41.6	1	0.33
12.18	356 W. B. E. XI. 1058	8.6	4	12	2	12.17 ⁸	86	11	5.0	6	0.32
	357 2 Corvi ϵ	3.1	...	12	3	35.75	111	54	48.2	7	0.26
	358	8.8	1	12	4	6.50	146	0	4.2	1	0.32
	359	9.0	1	12	4	18.16	145	59	21.5	1	0.34
	360 Lalande 22869	9.0	4	12	5	2.96	86	41	7.0	4	0.35
	361	9.9	2	12	6	30.89	130	14	7.5	2	0.34
	362	8.5	1	12	6	35.75	110	1	51.1	1	0.31
	363 W. B. E. XII. 87	7.9	5	12	7	26.65	87	1	58.1	5	0.31
	364	8.0	1	12	9	18.64	144	23	16.1	1	0.21
	365 Lalande 22983	9.0	1	12	9	34.67	96	45	36.3	1	0.33
	366 Lalande 22993	8.5	1	12	9	50.22	96	49	33.4	1	0.28
	367 W. B. E. XII. 139	9.3	4	12	10	37.82	87	34	56.5	4	0.34
27.90	368 W. B. E. XII. 155	8.3	3	12	11	27.89 ⁹⁰	87	43	7.6	3	0.32
	369 13 Virginis	5.2	...	12	12	9.75	90	4	53.2	2	0.23
21.58	370	9.0	2	12	13	21.54	108	34	8.2	2	0.38
24.58	371 15 Virginis η	4.0	...	12	13	24.54 ⁹	89	57	39.1	10	0.30
	372 R. P. L. 93	6.7	...	12	14	17.84	1	35	48.6	1	0.69
	373	9.5	1	12	19	7.93	143	33	9.7	1	0.34
	374	9.5	2	12	19	29.08	129	46	49.7	2	0.35
	375	8.0	1	12	19	32.61	147	24	20.2	1	0.21
	376 α Crucis—1st ... ..	...	...	12	19	32.91	152	43	43.7	1	0.27
33.74	377 α Crucis—2nd ... ..	...	...	12	19	33.74	152	23	47.2	3	0.31
	378	8.3	2	12	19	46.38	144	7	10.6	2	0.37
21.23	379	9.2	1	12	20	21.18.23	124	16	9.7	1	0.38
	380	9.0	1	12	21	36.12	145	45	16.7	1	0.32
40.01	381	9.2	1	12	21	36.01 36.32	147	28	50.3	1	0.38
	382 W. B. E. XII. 347	9.1	5	12	21	55.06	92	3	24.9	5	0.32
	383 Lalande 23342	7.2	5	12	22	38.93	91	43	36.3	5	0.25
	384	10.0	1	12	23	41.63	87	4	1.8	1	0.31
21.92	385	10.0	2	12	24	21.92	91	42	50.4	2	0.35

350—352—354—356—360—363—367—368.—Comparison stars for Mars in 1871.

351—362.—Comparison stars for Julia in 1873.

365—366.—Comparison stars for Ariadne in 1870.

372.—Groombridge 1884.

382—383—385.—Comparison stars for Hestia in 1868 and 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auriers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
351	O. A. S. 11872 ...	+ 3·0674	+ 0·0129	...	+ 20·054	- 0·005	...	...
352	Taylor 6440 ...	+ 3·0729	- 0·0004	...	+ 20·054	- 0·006	...	...
353	R. P. L. 89 ...	+ 3·2220	- 0·5042	...	+ 20·054	- 0·006	...	...
354	W. B. E. XI. 986 ...	+ 3·0728	- 0·0008	...	+ 20·054	- 0·006	...	...
355	9 Virginis σ ...	+ 3·0734	- 0·0032	- 0·016	+ 20·054	- 0·007	- 0·05	1623
356	W. B. E. XI. 1058 ...	+ 3·0713	0·0000	...	+ 20·054	- 0·014	...	...
357	2 Corvi ϵ ...	+ 3·0806	+ 0·0142	- 0·006	+ 20·052	- 0·016	- 0·02	1626
358	... ..	+ 3·1077	+ 0·0473	...	+ 20·052	- 0·016	...	...
359	... ..	+ 3·1094	+ 0·0474	...	+ 20·050	- 0·017	...	...
360	Lalande 22869 ...	+ 3·0705	+ 0·0005	...	+ 20·049	- 0·019	...	...
361	... ..	+ 3·1044	+ 0·0230	...	+ 20·046	- 0·021	...	...
362	... ..	+ 3·0862	+ 0·0132	...	+ 20·046	- 0·022	...	...
363	W. B. E. XII. 87 ...	+ 3·0699	+ 0·0008	...	+ 20·044	- 0·024	...	...
364	... ..	+ 3·1480	+ 0·0460	...	+ 20·038	- 0·027	...	...
365	Lalande 22983 ...	+ 3·0788	+ 0·0059	...	+ 20·037	- 0·027	...	...
366	Lalande 22993 ...	+ 3·0790	+ 0·0061	...	+ 20·036	- 0·028	...	...
367	W. B. E. XII. 139 ...	+ 3·0696	+ 0·0012	...	+ 20·033	- 0·030	...	...
368	W. B. E. XII. 155 ...	+ 3·0695	+ 0·0014	...	+ 20·030	- 0·032	...	...
369	13 Virginis ...	+ 3·0723	+ 0·0026	- 0·000	+ 20·026	- 0·032	+ 0·03	1643
370	... ..	+ 3·0984	+ 0·0128	...	+ 20·020	- 0·035	...	...
371	16 Virginis η ...	+ 3·0721	+ 0·0027	- 0·006	+ 20·020	- 0·035	+ 0·02	1647
372	R. P. L. 93 ...	+ 0·0831	+ 1·0157	- 0·152	+ 20·016	- 0·010	- 0·07	Main
373	... ..	+ 3·2232	+ 0·0464	...	+ 19·985	- 0·047	...	...
374	... ..	+ 3·1607	+ 0·0292	...	+ 19·982	- 0·047	...	...
375	... ..	+ 3·2504	+ 0·0546	...	+ 19·982	- 0·040	...	...
376	α Crucis—1st ...	+ 3·2898	+ 0·0680	- 0·006	+ 19·982	- 0·050	+ 0·04	Stone
377	α Crucis—2nd ...	+ 3·2900	+ 0·0680	- 0·006	+ 19·981	- 0·050	+ 0·04	Stone
378	... ..	+ 3·2315	+ 0·0482	...	+ 19·979	- 0·049	...	...
379	... ..	+ 3·1530	+ 0·0244	...	+ 19·975	- 0·049	...	...
380	... ..	+ 3·2570	+ 0·0518	...	+ 19·965	- 0·053	...	...
381	... ..	+ 3·2702	+ 0·0556	...	+ 19·964	- 0·053	...	...
382	W. B. E. XII. 347 ...	+ 3·0767	+ 0·0042	...	+ 19·963	- 0·052	...	...
383	Lalande 23342 ...	+ 3·0761	+ 0·0041	...	+ 19·957	- 0·053	...	...
384	... ..	+ 3·0651	+ 0·0017	...	+ 19·947	- 0·055	...	...
385	... ..	+ 3·0764	+ 0·0042	...	+ 19·941	- 0·057	...	...

372.—Proper motions from Main's list.

376—377.—Proper motions from "Stone's Cape Catalogue."

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.	
				h.	m.	s.	°	'	"			
386	... ..	9.5	1	12	25	4.77	151	47	52.7	1	0.35
387	Lalande 23476	9.2	5	12	27	16.62	94	32	29.7	5	0.30	
388	9 Corvi β	2.8	...	12	27	43.13	112	41	39.6	4	0.34	
389	... ..	10.2	1	12	27	56.95	99	40	41.0	1	0.36
390	... ..	8.5	1	12	28	18.50	141	42	56.2	1	0.28
391	25 Virginis f	5.9	...	12	30	14.87	95	7	53.0	1	0.23	
392	T Ursæ Majoris, Var. 3	8.9	4	12	30	36.07	29	48	47.9	5	0.32	
393	... ..	9.5	1	12	32	19.47	84	33	29.7	1	0.31
33-16	394	9.8	2	12	32	33.33 ¹⁶	29	17	19.0	2	0.39
395	... ..	8.8	1	12	33	19.08	143	10	21.2	1	0.35
396	Lalande 23656	8.7	5	12	33	35.96	95	17	9.2	5	0.31	
13-45	397	29 Virginis γ^1 (North)	3.5	...	12	35	13.43 ⁵	90	45	7.3	4	0.38
398	29 Virginis γ^2 (South)	3.5	...	12	35	13.60	90	45	12.7	6	0.34	
399	28 Virginis	7.0	...	12	35	23.78	96	48	5.2	1	0.28	
400	S Ursæ Majoris, Var. 2	8.3	4	12	38	22.47	28	12	38.5	4	0.30	
401	35 Virginis	6.2	4	12	41	23.50	85	44	0.6	4	0.23	
402	... ..	9.4	1	12	42	34.39	147	19	27.7	1	0.35
403	... ..	9.0	1	12	43	21.32	139	28	16.0	1	0.34
404	... ..	9.0	2	12	43	46.87	129	10	48.1	2	0.34
34-06	405	U Virginis, Var. 3	9.2	3	12	44	39.07 ⁶	83	45	18.8	3	0.35
406	37 Virginis	3.0	...	12	45	9.05	86	15	10.4	1	0.26	
407	Radcliffe 2922	7.4	1	12	45	29.77	26	19	23.2	1	0.28	
408	E. P. L. 98	6.6	...	12	48	5.74	5	53	33.4	3	0.90	
409	43 Virginis δ	3.7	...	12	49	12.35	85	54	42.8	2	0.34	
5-01	410	12 Canum Venaticorum α	3.1	...	12	50	5.04 ¹	50	59	43.7	9	0.33
411	Taylor 5974	8.7	2	12	52	25.82	143	41	32.2	2	0.32	
412	44 Virginis κ	4.4	...	12	53	7.04	93	7	36.4	3	0.36	
413	... ..	9.0	1	12	53	47.92	143	43	18.7	1	0.35
414	... ..	9.0	1	12	53	56.11	135	47	24.7	1	0.30
415	51 Virginis θ	4.4	...	13	3	22.51	94	51	38.1	19	0.33	
7-27	416	... ..	...	13	6	7.17	124	19	25.0	1	0.38
22-92	417	W Virginis, Var. 1	8.3	2	13	7	22.90 ²	105	52	49.4	2	0.37
37-72	418	9.9	2	13	8	37.56 ⁷²	139	48	38.8	2	0.38
419	58 Virginis	7.0	1	13	10	48.06	99	52	35.0	2	0.33	
420	O. A. N. 13563	7.9	1	13	15	44.79	27	56	6.0	1	0.28	

387—396.—Comparison stars for Asia in 1872.

399.—Comparison star for Sappho in 1867.

407—420.—Comparison stars for Comet 2, 1861.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
386	... ..	+ 3.3444	+ 0.0683	...	+ 19.935	- 0.062	...	...
387	Lalande 23476	+ 3.0848	+ 0.0059	...	+ 19.913	- 0.063	...	...
388	9 Corvi β	+ 3.1396	+ 0.0164	- 0.003	+ 19.908	- 0.064	+ 0.05	1685
389	... ..	+ 3.0999	+ 0.0086	...	+ 19.905	- 0.064	...	...
390	... ..	+ 3.2810	+ 0.0459	...	+ 19.902	- 0.067	...	...
391	25 Virginis f ...	+ 3.0880	+ 0.0063	- 0.004	+ 19.880	- 0.068	+ 0.02	1690
392	T Urs. Maj., Var. 3...	+ 2.7616	- 0.0377	...	+ 19.875	- 0.062	...	...
393	... ..	+ 3.0544	+ 0.0009	...	+ 19.855	- 0.071	...	...
394	... ..	+ 2.7348	- 0.0376	...	+ 19.852	- 0.065	...	...
395	... ..	+ 3.3309	+ 0.0406	...	+ 19.843	- 0.079	...	...
396	Lalande 23656	+ 3.0903	+ 0.0066	...	+ 19.840	- 0.075	...	...
397	29 Virginis γ^1	+ 3.0748	+ 0.0043	- 0.039	+ 19.819	- 0.078	- 0.02	1698
398	29 Virginis γ^2	+ 3.0748	+ 0.0043	- 0.039	+ 19.819	- 0.078	- 0.02	1699
399	28 Virginis	+ 3.0968	+ 0.0074	- 0.001	+ 19.816	- 0.078	- 0.03	1700
400	S Urs. Maj., Var. 2...	+ 2.6569	- 0.0360	...	+ 19.774	- 0.073	...	...
401	35 Virginis	+ 3.0643	+ 0.0020	- 0.003	+ 19.728	- 0.089	+ 0.01	1708
402	... ..	+ 3.4572	+ 0.0611	...	+ 19.709	- 0.100	...	...
403	... ..	+ 3.3662	+ 0.0440	...	+ 19.696	- 0.099	...	...
404	... ..	+ 3.2791	+ 0.0313	...	+ 19.690	- 0.098	...	...
405	U Virginis, Var. 3	+ 3.0439	+ 0.0012	...	+ 19.675	- 0.093	...	...
406	37 Virginis	+ 3.0550	+ 0.0025	- 0.004	+ 19.666	- 0.095	- 0.03	1714
407	Radcliffe 2922	+ 2.5393	- 0.0344	...	+ 19.660	- 0.080	...	...
408	R. P. L. 98	+ 0.3737	+ 0.2200	...	+ 19.615	- 0.019	...	...
409	43 Virginis δ ...	+ 3.0518	+ 0.0025	- 0.034	+ 19.595	- 0.103	+ 0.05	1723
410	12 Canum Venat. α ...	+ 2.8374	- 0.0152	- 0.022	+ 19.578	- 0.098	- 0.07	1725
411	Taylor 5974	+ 3.4848	+ 0.0546	...	+ 19.531	- 0.122	...	...
412	44 Virginis κ ...	+ 3.0889	+ 0.0064	- 0.004	+ 19.519	- 0.111	- 0.01	1729
413	... ..	+ 3.4059	+ 0.0549	...	+ 19.504	- 0.124	...	...
414	... ..	+ 3.3927	+ 0.0407	...	+ 19.501	- 0.123	...	...
415	51 Virginis θ	+ 3.1082	+ 0.0078	- 0.004	+ 19.293	- 0.132	+ 0.04	1747
416	... ..	+ 3.3320	+ 0.0282	...	+ 19.226	- 0.145	...	...
417	W Virginis, Var. 1	+ 3.1824	+ 0.0142	...	+ 19.194	- 0.142	...	...
418	... ..	+ 3.5392	+ 0.0493	...	+ 19.181	- 0.159	...	...
419	58 Virginis	+ 3.1430	+ 0.0108	- 0.008	+ 19.105	- 0.147	- 0.03	1761
420	O. A. N. 13563	+ 2.2540	- 0.0189	...	+ 18.969	- 0.114	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
	421 67 Virginis α (<i>Spica</i>) ...	1.2	...	13	18	30.24	100	29	52.8	10	0.31
	422 79 Urs. Maj. ζ (<i>Mizar</i>) 2nd.	4.2	...	13	18	49.37	34	24	51.9	1	0.38
34.41	423 Stone 7365 ...	8.0	1	13	19	34.28.41	143	29	36.6	1	0.38
47.80	424 Radcliffe 3011 ...	9.0	1	13	19	47.80	34	26	26.2	2	0.34
	425 O. A. S. 12872 ...	9.5	1	13	19	50.65	116	59	17.8	1	0.34
49.97	426 R. P. L. 103 ...	7.3	...	13	19	^{49.97} 51.13	4	34	52.0	3	0.38
8.16	427 80 Ursæ Majoris g ...	4.2	...	13	20	8.28.16	34	20	59.8	3	0.39
	428	8.5	1	13	27	9.50	131	37	59.6	1	0.28
	429 79 Virginis ζ ...	3.5	...	13	28	13.35	89	56	45.8	20	0.37
	430 Bonn +0°. 3090 ...	9.7	1	13	35	27.09	89	28	18.2	1	0.37
13.68	431 Taylor 6363 ...	8.0	1	13	37	13.49.68	147	36	14.3	1	0.38
29.67	432 Taylor 6366 ...	8.0	1	13	37	29.44.67	151	48	49.8	1	0.38
	433 O. A. S. 13100 ...	9.0	1	13	37	48.96	117	0	28.4	1	0.34
44.76	434	9.4	1	13	38	44.58.76	122	49	48.8	2	0.37
10.34	435 86 Virginis ...	6.0	...	13	39	10.34	101	47	21.2	3	0.37
	436 85 Urs. Maj. η (<i>Benetnasch</i>)	2.0	...	13	42	32.07	40	3	4.9	1	0.29
19.53	437 Taylor 6473 ...	7.7	3	13	48	18.51.3	97	25	58.9	3	0.32
39.28	438 8 Bötis η ...	2.9	...	13	48	38.28.8	70	57	53.1	7	0.38
52.27	439	8.5	2	13	52	52.22.17	151	33	17.8	2	0.37
	440 93 Virginis τ ...	4.4	...	13	55	11.05	87	50	23.6	6	0.37
3.10	441 W. B. E. XIII. 1023 ...	9.4	2	13	59	3.10	102	5	38.9	3	0.39
35.34	442 W. B. E. XIII. 1070 ...	8.7	3	14	1	35.31.4	101	57	41.2	3	0.39
	443 R. P. L. 108 ...	7.3	...	14	2	45.10	3	38	5.4	4	0.75
	444	10.2	1	14	5	16.96	102	9	22.7	1	0.37
	445	9.2	5	14	6	58.76	124	30	17.3	5	0.30
52.20	446 16 Bötis α (<i>Arcturus</i>) ...	0.0	...	14	9	52.22.0	70	9	18.9	3	0.37
	447	10.3	2	14	11	58.13	124	19	0.2	2	0.32
	448	9.7	1	14	12	1.70	124	30	6.2	1	0.32
59.13	449 W. B. E. XIV. 240 ...	9.1	5	14	14	59.12.3	102	36	2.5	5	0.36
	450 ... ..	...	...	14	15	51.60	122	14	5.1	1	0.32
35.80	451 2 Libræ ...	6.3	...	14	16	35.78.80	101	7	58.5	1	0.46
50.63	452 W. B. E. XIV. 280 ...	8.9	5	14	16	50.61.3	102	24	7.8	5	0.38
24.99	453 W. B. E. XIV. 315 ...	7.3	2	14	18	24.86.9	102	46	38.7	2	0.38
	454 W. B. E. XIV. 360 ...	8.0	1	14	20	52.23	102	47	14.7	1	0.38
	455	9.5	5	14	22	34.17	124	58	0.3	5	0.30

425.—Comparison star for Eunomia in 1863.
 426.—Groombridge 2007.
 430.—Comparison star for Isis in 1871.
 433.—Comparison star for Atalanta in 1867.
 441—442—444—449—452—453—454.—Comparison stars for Mars in 1873.
 443.—Groombridge 2099.
 445—455.—Comparison stars for Comet in 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
421	67 Virginis α ...	+ 3.1554	+ 0.0116	- 0.004	+ 18.889	- 0.163	+ 0.02	1774
422	79 Urs. Maj. ζ -2nd...	+ 2.4141	- 0.0172	+ 0.015	+ 18.880	- 0.127	+ 0.03	1777
423	Stone 7365 ...	+ 3.6889	+ 0.0587	...	+ 18.858	- 0.190	...	...
424	Radcliffe 3011 ...	+ 2.4070	- 0.0170	...	+ 18.851	- 0.127	...	...
425	O. A. S. 12872 ...	+ 3.3047	+ 0.0224	...	+ 18.850	- 0.172	...	...
426	R. P. L. 103 ...	- 2.6243	+ 0.9575	...	+ 18.850	+ 0.123	...	...
427	80 Ursæ Majoris g ...	+ 2.4019	- 0.0169	+ 0.014	+ 18.841	- 0.123	+ 0.02	1779
428	... ..	+ 3.5133	+ 0.0379	...	+ 18.621	- 0.197	...	...
429	79 Virginis ζ ...	+ 3.0717	+ 0.0064	- 0.021	+ 18.588	- 0.176	- 0.06	1789
430	Bonn + 0°. 3090 ...	+ 3.0672	+ 0.0065	...	+ 18.340	- 0.189	...	...
431	Taylor 6363 ...	+ 3.3305	+ 0.0733	...	+ 18.276	- 0.243	...	...
432	Taylor 6366 ...	+ 4.1018	+ 0.0909	...	+ 18.267	- 0.253	...	...
433	O. A. S. 13100 ...	+ 3.3541	+ 0.0231	...	+ 18.258	- 0.210	...	...
434	... ..	+ 3.4325	+ 0.0283	...	+ 18.221	- 0.216	...	...
435	86 Virginis ...	+ 3.1893	+ 0.0130	- 0.003	+ 18.206	- 0.202	- 0.01	1805
436	85 Ursæ Majoris η ...	+ 2.3841	- 0.0103	- 0.012	+ 18.081	- 0.159	- 0.01	1815
437	Taylor 6473 ...	+ 3.1527	+ 0.0109	...	+ 17.856	- 0.217	...	...
438	8 Bötis η ...	+ 2.8616	- 0.0006	- 0.005	+ 17.843	- 0.199	+ 0.34	1821
439	... ..	+ 4.2392	+ 0.0920	...	+ 17.671	- 0.299	...	...
440	93 Virginis r ...	+ 3.0479	+ 0.0064	- 0.001	+ 17.574	- 0.222	+ 0.03	1829
441	W. B. E. XIII. 1023...	+ 3.2144	+ 0.0135	...	+ 17.409	- 0.240	...	...
442	W. B. E. XIII. 1070...	+ 3.2154	+ 0.0134	...	+ 17.298	- 0.245	...	...
443	R. P. L. 108 ...	- 7.6693	+ 2.4356	...	+ 17.246	+ 0.564	...	...
444	... ..	+ 3.2218	+ 0.0136	...	+ 17.132	- 0.251	...	...
445	... ..	+ 3.5557	+ 0.0305	...	+ 17.055	- 0.280	...	...
446	16 Bötis α ...	+ 2.8131	+ 0.0004	- 0.030	+ 16.920	- 0.227	+ 1.98	1847
447	... ..	+ 3.5691	+ 0.0303	...	+ 16.820	- 0.290	...	...
448	... ..	+ 3.5728	+ 0.0304	...	+ 16.818	- 0.290	...	...
449	W. B. E. XIV. 240 ...	+ 3.2382	+ 0.0139	...	+ 16.676	- 0.270	...	...
450	... ..	+ 3.5433	+ 0.0281	...	+ 16.633	- 0.294	...	...
451	2 Libræ ...	+ 3.2200	+ 0.0132	- 0.003	+ 16.596	- 0.270	+ 0.06	1860
452	W. B. E. XIV. 280 ...	+ 3.2374	+ 0.0138	...	+ 16.585	- 0.273	...	...
453	W. B. E. XIV. 315 ...	+ 3.2444	+ 0.0141	...	+ 16.507	- 0.276	...	...
454	W. B. E. XIV. 360 ...	+ 3.2472	+ 0.0140	...	+ 16.384	- 0.280	...	...
455	... ..	+ 3.6169	+ 0.0309	...	+ 16.298	- 0.315	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.	
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>			
	456	W. B. E. XIV. 392	9.5	4	14	22	41.22	103	15	21.6	4	0.32
	457	W. B. E. XIV. 410	9.8	7	14	23	52.16	103	2	23.2	7	0.35
21.39	458	25 Böotis ρ	3.6	...	14	26	21.41.39	59	4	12.7	2	0.45
38.54	459	W. B. E. XIV. 458	9.6	5	14	26	38.54	103	30	56.2	5	0.38
23.62	460	W. B. E. XIV. 512	9.2	8	14	29	23.61.2	103	28	19.9	8	0.35
	461	α Centauri—1st	...	...	14	30	58.98	150	18	42.9	1	0.34
	462	Taylor 7734	7.6	5	14	31	10.79	125	2	31.9	5	0.30
	463	...	8.3	1	14	33	28.59	126	20	8.9	1	0.35
26.40	464	36 Böotis ϵ (<i>Mirac</i>)	2.6	...	14	39	26.40	62	23	20.2	4	0.45
	465	...	8.9	3	14	40	58.04	127	6	4.9	3	0.34
	466	...	9.3	1	14	42	58.72	129	9	6.2	1	0.35
51.36	467	9 Libræ α^2	3.0	...	14	43	51.36	105	30	46.1	7	0.42
	468	...	8.0	1	14	45	58.45	101	51	37.9	1	0.35
	469	7 Urs. Min. β , Var. 1	2.1	...	14	51	6.31	15	19	32.3	1	0.35
	470	...	9.0	...	14	52	8.60	123	14	56.8	1	0.49
	471	O. A. N. 15004	8.0	1	14	54	10.51	39	23	13.3	1	0.47
18.71	472	Radcliffe 3306	7.6	3	14	56	18.71	42	13	11.7	3	0.39
	473	...	8.5	1	14	58	17.32	131	32	49.0	1	0.36
0.17	474	43 Böotis ψ	4.5	...	14	59	0.21.17	62	33	21.0	3	0.46
	475	W. B. E. XV. 86	9.8	1	15	7	0.18	98	3	54.4	1	0.37
	476	27 Libræ β	2.7	...	15	10	10.44	98	54	45.2	2	0.48
	477	Taylor 8048	6.5	1	15	12	42.84	68	57	40.8	2	0.37
30.59	478	W. B. E. XV. 290	8.0	...	15	17	30.59	102	27	14.6	1	0.39
24.30	479	Lacaille 6377	7.0	1	15	19	24.30	130	12	49.6	1	0.37
	480	...	8.3	1	15	22	58.93	125	12	5.0	1	0.48
12.35	481	...	9.0	1	15	23	12.35	151	38	57.2	1	0.38
20.79	482	Radcliffe 3394	8.2	2	15	25	20.79	41	50	59.6	2	0.40
	483	...	8.1	2	15	25	34.42	122	45	32.5	2	0.50
	484	Lacaille 6421	8.0	1	15	26	12.96	122	44	25.0	1	0.47
59.28	485	Lalande 28320	8.5	1	15	26	59.28	103	48	1.8	1	0.38
16.67	486	5 Cor. Bor. α (<i>Alpha</i>)	2.4	...	15	29	16.67	62	51	24.0	4	0.46
55.14	487	W. B. E. XV. 557	8.0	1	15	30	55.14	104	6	37.6	2	0.39
24.36	488	W. B. E. XV. 564	7.4	2	15	31	24.36	104	5	45.7	2	0.41
26.37	489	W. B. E. XV. 675	9.0	1	15	36	26.37	102	43	14.8	1	0.38
	490	24 Serpentis α	2.7	...	15	38	0.78	83	10	23.2	7	0.47

456—457—459—460.—Comparison stars for Mars in 1873.

462.—Comparison star for Comet in 1872.

471—472.—Comparison stars for Comet 2, 1861.

475—478—485—487—488.—Comparison stars for Comet 2, 1867.

482.—Comparison star for Comet 2, 1862.

489.—Comparison star for Sappho in 1864.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
456	W. B. E. XIV. 392 ...	+ 3.2564	- 0.0144	...	+ 16.292	- 0.284	...	...
457	W. B. E. XIV. 410 ...	+ 3.2541	+ 0.0143	...	+ 16.231	- 0.286	...	...
458	25 Bötis ρ ...	+ 2.5946	- 0.0015	- 0.009	+ 16.108	- 0.233	- 0.13	1869
459	W. B. E. XIV. 458 ...	+ 3.2640	+ 0.0145	...	+ 16.087	- 0.291	...	...
460	W. B. E. XIV. 512 ...	+ 3.2665	+ 0.0145	...	+ 15.943	- 0.296	...	...
461	α Centauri—1st ...	+ 4.5074	+ 0.0878	- 0.476	+ 15.857	- 0.410	- 0.81	Stone.
462	Taylor 7734 ...	+ 3.6467	+ 0.0307	...	+ 15.843	- 0.333	...	...
463	... ..	+ 3.6827	+ 0.0819	...	+ 15.723	- 0.339	...	...
464	36 Bötis ϵ ...	+ 2.6240	- 0.0001	- 0.004	+ 15.894	- 0.252	- 0.00	1890
465	... ..	+ 3.7255	+ 0.0326	...	+ 15.807	- 0.357	...	...
466	... ..	+ 3.7828	+ 0.0350	...	+ 15.194	- 0.366	...	...
467	9 Libræ α^2 ...	+ 3.3154	+ 0.0154	- 0.009	+ 15.143	- 0.324	+ 0.07	1894
468	... ..	+ 3.2582	+ 0.0135	...	+ 15.021	- 0.321	...	...
469	7 Urs. Maj. β , Var. 1.	- 0.2408	+ 0.1022	- 0.008	+ 14.721	+ 0.018	+ 0.01	1917
470	... ..	+ 3.6705	+ 0.0280	...	+ 14.659	- 0.370	...	...
471	O. A. N. 15004 ...	+ 1.9505	+ 0.0017	...	+ 14.536	- 0.202	...	...
472	Radcliffe 3306 ...	+ 2.0474	+ 0.0009	...	+ 14.406	- 0.213	...	...
473	... ..	+ 3.9037	+ 0.0371	...	+ 14.286	- 0.405	...	...
474	43 Bötis ψ ...	+ 2.5834	+ 0.0010	- 0.015	+ 14.242	- 0.271	+ 0.01	1922
475	W. B. E. XV. 86 ...	+ 3.2102	+ 0.0114	...	+ 13.741	- 0.347	...	...
476	27 Libræ β ...	+ 3.2269	+ 0.0117	- 0.008	+ 13.537	- 0.353	+ 0.02	1934
477	Taylor 8048 ...	+ 2.6889	+ 0.0028	...	+ 13.373	- 0.298	...	...
478	W. B. E. XV. 290 ...	+ 3.2963	+ 0.0131	...	+ 13.057	- 0.371	...	...
479	Lacaille 6377 ...	+ 3.9366	+ 0.0334	...	+ 12.924	- 0.444	...	...
480	... ..	+ 3.8026	+ 0.0276	...	+ 12.680	- 0.434	...	...
481	... ..	+ 4.9924	+ 0.0862	...	+ 12.075	- 0.567	...	...
482	Radcliffe 3394 ...	+ 1.9067	+ 0.0037	...	+ 12.529	- 0.222	...	...
483	... ..	+ 3.7445	+ 0.0252	...	+ 12.514	- 0.431	...	...
484	Lacaille 6421 ...	+ 3.7455	+ 0.0252	...	+ 12.470	- 0.433	...	...
485	Lalande 28320 ...	+ 3.3300	+ 0.0134	...	+ 12.417	- 0.387	...	...
486	5 Coronæ Bor. α ...	+ 2.5297	+ 0.0023	+ 0.009	+ 12.256	- 0.297	+ 0.09	1973
487	W. B. E. XV. 557 ...	+ 3.3396	+ 0.0134	...	+ 12.145	- 0.393	...	...
488	W. B. E. XV. 564 ...	+ 3.3397	+ 0.0134	...	+ 12.111	- 0.394	...	...
489	W. B. E. XV. 675 ...	+ 3.3167	+ 0.0126	...	+ 11.756	- 0.396	...	...
490	24 Serpentis α ...	+ 2.9419	+ 0.0032	+ 0.008	+ 11.645	- 0.354	+ 0.06	1990

461.—Proper motions from "Stone's Cape Catalogue."

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
16.51	491 O. A. S. 14840	8.2	2	15	38	16.46 ⁵¹	114	18	51.5	2	0.48
48.96	492	9.7	1	15	41	48.05 ⁴⁸⁻⁹⁶	62	4	59.0	1	0.43
	493 36 Serpentis b	5.2	...	15	44	38.92	92	42	16.3	2	0.49
59.33	494 O. A. S. 14963	8.0	1	15	44	59.29 ³³	108	3	12.7	2	0.39
17.07	495 1 Herculis χ	4.5	...	15	48	17.19 ⁰⁷	47	11	30.9	2	0.44
	496 Lalande 28970	8.0	1	15	48	22.26	70	50	43.7	1	0.49
	497 Lalande 28980	6.0	1	15	49	24.67	104	27	22.0	1	0.49
48.36	498 W. B. E. XV. 923... ..	9.7	2	15	49	48.31 ⁶	104	57	39.2	2	0.38
	499 49 Libræ	5.6	...	15	53	12.29	106	9	26.9	2	0.50
16.57	500 W. B. E. XV. 1044	7.6	2	15	56	18.53 ⁷	95	23	45.1	2	0.40
23.13	501 51 Scorpii ξ	4.1	...	15	57	23.07 ¹³	101	1	15.4	1	0.39
3.30	502 8 Scorpii β^1	5.2	...	15	58	3.23 ³⁰	109	27	20.9	3	0.49
	503	8.3	1	16	0	28.96	105	17	52.4	1	0.47
49.19	504 Lalande 29414	8.7	1	16	2	49.13 ⁹	102	32	58.4	1	0.43
0.96	505 O. A. S. 15416	7.8	2	16	7	0.89 ⁹⁶	110	46	56.4	2	0.41
	506 1 Ophiuchi δ	2.8	...	16	7	41.49	93	21	56.6	4	0.49
	507 Lalande 29610	8.2	1	16	8	40.96	105	33	55.6	1	0.52
	508 O. A. S. 15504	9.0	1	16	11	52.45	106	42	46.7	1	0.57
47.33	509 O. A. S. 15613	8.0	2	16	17	47.27 ³³	113	9	54.4	2	0.45
	510 7 Ophiuchi χ	5.0	...	16	19	39.99	108	9	57.7	1	0.52
	511 21 Scorpii α (Antares)	1.1	...	16	21	37.42	116	8	51.1	3	0.52
	512 23 Scorpii τ	2.9	...	16	27	53.75	117	57	1.0	2	0.50
	513 13 Ophiuchi ζ	2.8	...	16	30	9.96	100	18	27.0	2	0.57
	514 Taylor 7723	5.9	1	16	34	13.76	107	29	40.0	1	0.52
	515 Taylor 7724	7.0	1	16	34	25.80	109	40	44.7	1	0.57
	516 40 Herculis ζ	3.1	...	16	36	29.97	58	9	57.4	3	0.53
	517 20 Ophiuchi	4.7	...	16	42	48.70	100	33	21.3	2	0.52
	518	8.6	4	16	46	51.54	136	38	29.0	4	0.51
	519 27 Ophiuchi κ	3.4	...	16	51	39.41	80	25	32.3	2	0.48
	520 29 Ophiuchi	6.8	...	16	54	25.72	108	41	47.4	1	0.46
	521 22 Ursæ Minoris ϵ	4.5	..	16	59	3.61	7	45	26.6	4	0.04
	522 Taylor 7926	7.9	1	17	0	26.17	136	51	50.4	1	0.52
	523 35 Ophiuchi η	2.6	...	17	3	5.64	105	33	54.9	3	0.52
	524	8.0	1	17	4	40.99	59	7	56.8	1	0.48
	525 Lacaille 7168	7.9	1	17	5	12.69	128	8	25.4	1	0.57

491.—Comparison star for Iphigenia in 1873.

498—507.—Comparison stars for Donati's Comet of 1858.

494.—Comparison star for Sylvia in 1866.

496—500—505.—Comparison stars for Comet 2, 1862.

497—503—508.—Comparison stars for Sappho in 1864.

498—499.—Comparison stars for Asia in 1861.

504.—Comparison star for Sappho in 1871.

509.—Comparison star for Angelina in 1866.

518.—Comparison star for Ianthé in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
491	O. A. S. 14840 ...	+ 3.5644	+ 0.0182	...	+ 11.626	- 0.429	...	...
492	... ..	+ 2.4888	+ 0.0027	...	+ 11.372	- 0.304	...	...
493	36 Serpentis δ ...	+ 3.1247	+ 0.0087	- 0.008	+ 11.166	- 0.395	+ 0.02	2004
494	O. A. S. 14963 ...	+ 3.4346	+ 0.0145	...	+ 11.143	- 0.421	...	...
495	1 Herculis χ ...	+ 2.0327	+ 0.0084	+ 0.037	+ 10.901	- 0.254	- 0.60	2021
496	Lalande 28970 ...	+ 2.6824	+ 0.0039	...	+ 10.895	- 0.333	...	...
497	Lalande 28980 ...	+ 3.3625	+ 0.0127	...	+ 10.819	- 0.417	...	...
498	W. B. E. XV. 923 ...	+ 3.3734	+ 0.0128	...	+ 10.790	- 0.419	...	...
499	49 Libræ ...	+ 3.4018	+ 0.0131	- 0.047	+ 10.537	- 0.427	+ 0.37	2026
500	W. B. E. XV. 1044 ...	+ 3.1822	+ 0.0092	...	+ 10.306	- 0.402	...	...
501	51 Scorpii ξ ...	+ 3.2962	+ 0.0109	- 0.007	+ 10.224	- 0.417	+ 0.02	2033
502	8 Scorpii β^1 ...	+ 3.4791	+ 0.0142	- 0.003	+ 10.174	- 0.441	+ 0.03	2034
503	... ..	+ 3.3894	+ 0.0123	...	+ 9.990	- 0.432	...	...
504	Lalande 29414 ...	+ 3.3317	+ 0.0111	...	+ 9.813	- 0.428	...	...
505	O. A. S. 15416 ...	+ 3.5191	+ 0.0140	...	+ 9.491	- 0.456	...	...
506	1 Ophiuchi δ ...	+ 3.1415	+ 0.0081	- 0.005	+ 9.439	- 0.408	+ 0.14	2065
507	Lalande 29610 ...	+ 3.4017	+ 0.0119	...	+ 9.362	- 0.442	...	...
508	O. A. S. 15504 ...	+ 3.4299	+ 0.0121	...	+ 9.114	- 0.449	...	...
509	O. A. S. 15613 ...	+ 3.5883	+ 0.0141	...	+ 8.650	- 0.476	...	...
510	7 Ophiuchi χ ...	+ 3.4895	+ 0.0119	- 0.004	+ 8.502	- 0.432	+ 0.02	2088
511	21 Scorpii α ...	+ 3.6890	+ 0.0150	- 0.002	+ 8.347	- 0.491	+ 0.03	2091
512	23 Scorpii τ ...	+ 3.7252	+ 0.0152	- 0.002	+ 7.838	- 0.502	+ 0.02	2103
513	13 Ophiuchi ζ ...	+ 3.2982	+ 0.0085	- 0.001	+ 7.336	- 0.451	- 0.04	2109
514	Taylor 7723 ...	+ 3.4644	+ 0.0105	...	+ 7.332	- 0.473	...	...
515	Taylor 7724 ...	+ 3.5174	+ 0.0112	...	+ 7.315	- 0.481	...	...
516	40 Herculis ζ ...	+ 2.2966	+ 0.0033	- 0.036	+ 7.146	- 0.316	- 0.41	2127
517	20 Ophiuchi ...	+ 3.3074	+ 0.0080	+ 0.005	+ 6.627	- 0.458	+ 0.08	2133
518	... ..	+ 4.4165	+ 0.0237	...	+ 6.292	- 0.615	...	...
519	27 Ophiuchi κ ...	+ 2.8566	+ 0.0044	- 0.021	+ 5.892	- 0.402	- 0.02	2156
520	29 Ophiuchi ...	+ 3.5062	+ 0.0089	- 0.005	+ 5.660	- 0.492	- 0.00	2158
521	22 Ursæ Minoris ϵ ...	- 6.3954	+ 0.2995	+ 0.009	+ 5.270	+ 0.898	+ 0.00	2201
522	Taylor 7926 ...	+ 4.4512	+ 0.0203	...	+ 5.154	- 0.629	...	...
523	35 Ophiuchi η ...	+ 3.4332	+ 0.0074	+ 0.000	+ 4.928	- 0.487	- 0.10	2171
524	... ..	+ 2.2962	+ 0.0081	...	+ 4.794	- 0.327	...	...
525	Lacaille 7168 ...	+ 4.0922	+ 0.0139	...	+ 4.749	- 0.581	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
	526 64 Herculis α , Var. 1 ...	3.2	...	17	8	51.43	75	27	47.4	4	0.53
	527 42 Ophiuchi θ ...	3.4	...	17	14	12.69	114	52	12.9	2	0.57
	528 44 Ophiuchi b ...	4.5	...	17	18	36.78	114	3	22.3	1	0.48
	529 45 Ophiuchi d ...	4.4	...	17	19	14.68	119	44	59.2	1	0.49
6.89	530 Brisbane 6091 ...	8.8	2	17	22	6.65 ⁵⁹	148	27	32.0	2	0.60
	531 23 Draconis β ...	3.0	...	17	27	33.73	37	36	14.0	1	0.60
47.29	532	8.8	1	17	27	47.65 ²⁹	150	36	3.8	1	0.61
	533 Taylor 8129 ...	8.1	2	17	28	8.33	77	23	48.7	2	0.55
	534 55 Ophiuchi α ...	2.2	...	17	29	2.36	77	20	44.6	5	0.54
16.61	535 56 Serpentis σ ...	4.4	...	17	34	16.64	102	48	18.5	1	0.60
	536	10.2	1	17	35	10.93	126	15	23.1	1	0.60
51.37	537	9.2	1	17	36	51.73 ³⁷	150	36	23.8	1	0.61
32.25	538	8.7	2	17	40	32.32 ²⁵	126	28	34.2	2	0.59
[41] 24.20	539 86 Herculis μ ...	3.5	...	17	41	29.30	62	12	12.8	4	0.55
	540	9.7	1	17	43	39.28	118	27	36.2	1	0.62
	541 Radcliffe 3765 ...	8.6	1	17	43	34.79	17	32	7.5	1	0.60
	542 31 Draconis ψ^1 ...	4.8	...	17	44	12.47	17	47	21.9	3	0.52
31.26	543	8.9	2	17	51	31.58 ²⁶	152	7	41.0	2	0.61
37.02	544	9.2	1	17	52	37.18 ⁰²	130	49	36.6	2	0.62
	545 33 Draconis γ ...	2.4	...	17	53	39.34	38	29	43.7	1	0.52
	546 9 Sagittarii ...	5.7	...	17	56	5.22	114	21	39.1	2	0.48
	547 Bonn +30°. 3133... ..	7.9	1	18	3	24.04	59	1	8.9	1	0.50
17.85	548 T. Herculis, Var. 4 ...	9.0	3	18	4	17.76 ⁸⁵	59	0	0.0	3	0.61
10.06	549 18 Sagittarii μ ...	4.1	...	18	6	10.07 ⁶	111	5	22.9	8	0.58
38.12	550 14 Sagittarii ...	5.9	...	18	6	38.12 ²	111	44	40.8	1	0.62
35.51	551 Lacaille 7644 ...	7.0	1	18	9	35.69 ⁵¹	132	19	56.2	1	0.61
	552 23 Ursæ Minoris δ ...	4.3	...	18	13	18.36	3	23	34.6	4	0.28
	553 24 Ursæ Minoris ...	5.9	...	18	17	47.74	3	0	54.6	1	0.14
	554 22 Sagittarii λ ...	3.1	...	18	20	7.82	115	29	21.7	1	0.47
	555 Taylor 8509 ...	4.7	...	18	21	57.59	104	38	39.9	2	0.56
	556 Taylor 8516 ...	6.0	2	18	22	32.12	104	39	48.0	3	0.57
55.14	557 O. A. S. 18326 ...	9.0	1	18	23	55.18 ⁴	109	14	37.4	1	0.60
57.25	558 V Sagittarii, Var. 5 ...	8.8	1	18	23	57.25 ²⁵	108	20	53.9	1	0.62
54.52	559 Taylor 8527 ...	7.0	...	18	23	54.52 ²	108	29	14.0	1	0.67
24.44	560 U Sagittarii, Var. 4 ...	7.8	3	18	24	24.44 ⁴	109	12	41.6	4	0.61

536.—Comparison star for Donati's Comet of 1858.

547.—Observed for map of T Herculis, Var. 4.

550.—Comparison star for D'Arrest's Comet of 1870.

557.—559.—Observed for map of U Sagittarii, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
526	64 Herouli α ...	+ 2.7341	+ 0.0035	- 0.002	+ 4.438	- 0.391	- 0.03	2133
527	42 Ophiuchi θ ...	+ 3.6795	+ 0.0080	- 0.002	+ 3.980	- 0.528	+ 0.04	2139
528	44 Ophiuchi β ...	+ 3.6594	+ 0.0073	- 0.003	+ 3.602	- 0.527	- 0.01	2198
529	45 Ophiuchi δ ...	+ 3.8243	+ 0.0084	- 0.003	+ 3.547	- 0.551	- 0.15	2200
530	Brisbane 6091 ...	+ 5.2207	+ 0.0227	...	+ 3.300	- 0.753	...	...
531	23 Draconis β ...	+ 1.3537	+ 0.0052	- 0.002	+ 2.829	- 0.197	- 0.00	2221
532	... ..	+ 5.4216	+ 0.0219	...	+ 2.808	- 0.733	...	...
533	Taylor 8129 ...	+ 2.7761	+ 0.0031	...	+ 2.779	- 0.402	...	...
534	55 Ophiuchi α ...	+ 2.7747	+ 0.0030	+ 0.007	+ 2.701	- 0.402	+ 0.22	2218
535	56 Serpentis σ ...	+ 3.3742	+ 0.0041	- 0.006	+ 2.246	- 0.490	+ 0.04	2225
536	... ..	+ 4.0471	+ 0.0069	...	+ 2.168	- 0.587	...	...
537	... ..	+ 5.4335	+ 0.0162	...	+ 2.020	- 0.797	...	...
538	... ..	+ 4.0572	+ 0.0057	...	+ 1.701	- 0.591	...	...
539	86 Herouli μ ...	+ 2.3696	+ 0.0025	- 0.024	+ 1.618	- 0.346	+ 0.75	2237
540	... ..	+ 3.7949	+ 0.0045	...	+ 1.517	- 0.553	...	...
541	Radcliffe 3765 ...	- 1.1482	+ 0.0164	...	+ 1.435	+ 0.166	...	...
542	31 Draconis ψ^1 ...	- 1.0846	+ 0.0155	- 0.001	+ 1.381	+ 0.157	+ 0.27	2251
543	... ..	+ 5.5986	+ 0.0073	...	+ 0.742	- 0.816	...	...
544	... ..	+ 4.2267	+ 0.0037	...	+ 0.645	- 0.614	...	...
545	33 Draconis γ ...	+ 1.3917	+ 0.0030	- 0.002	+ 0.555	- 0.203	+ 0.03	2267
546	9 Sagittarii ...	+ 3.6775	+ 0.0022	- 0.003	+ 0.343	- 0.536	+ 0.01	2260
547	Bonn +30°. 3133 ...	+ 2.2697	+ 0.0022	...	- 0.297	- 0.331	...	...
548	T Herouli, Var. 4 ...	+ 2.2691	+ 0.0021	...	- 0.375	- 0.331	...	...
549	13 Sagittarii μ ...	+ 3.5876	+ 0.0009	- 0.001	- 0.540	- 0.523	- 0.00	2284
550	14 Sagittarii ...	+ 3.6052	+ 0.0009	- 0.003	- 0.580	- 0.526	+ 0.02	2286
551	Lacaille 7644 ...	+ 4.2891	- 0.0010	...	- 0.839	- 0.625	...	...
552	23 Ursæ Minoris δ ...	- 19.4386	- 0.3885	+ 0.026	- 1.163	+ 2.332	- 0.04	2395
553	24 Ursæ Minoris ...	- 22.2319	- 0.6690	+ 0.067	- 1.556	+ 3.233	+ 0.02	2417
554	22 Sagittarii λ ...	+ 3.7071	- 0.0013	- 0.005	- 1.759	- 0.537	+ 0.20	2310
555	Taylor 8509 ...	+ 3.4200	- 0.0003	...	- 1.919	- 0.496	...	...
556	Taylor 8516 ...	+ 3.4203	- 0.0005	...	- 1.969	- 0.495	...	...
557	O. A. S. 18326 ...	+ 3.5364	- 0.0010	...	- 2.089	- 0.512	...	...
558	V Sagittarii, Var. 5...	+ 3.5132	- 0.0010	...	- 2.092	- 0.509	...	...
559	Taylor 8527 ...	+ 3.5167	- 0.0010	...	- 2.092	- 0.509	...	...
560	U Sagittarii, Var. 4...	+ 3.5354	- 0.0011	...	- 2.131	- 0.512	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.	
				h.	m.	s.	°	'	"			
35-29	561	3 Lyræ α (<i>Vega</i>) ...	0.2	...	18	32	38.279	51	20	0.2	5	0.59
	562	... ..	8.9	1	18	35	18.40	118	34	10.1	1	0.52
40-14	563	... ..	9.8	1	18	35	40.24 ¹⁴	137	15	50.0	1	0.62
42-08	564	R Scuti, Var. 1 ...	7.0	1	18	40	42.13 ⁰⁸	95	50	21.5	2	0.61
55-15	565	O. A. S. 18773 ...	8.8	4	18	44	59.19 ⁵	118	17	42.2	4	0.68
25-38	566	10 Lyræ β ...	3.6	...	18	45	28.38 ⁸	56	47	0.8	4	0.61
	567	32 Sagittarii ν ¹ ...	5.0	...	18	46	30.00	112	53	55.3	2	0.55
	568	R. P. L. 131 ...	6.6	...	18	56	7.15	3	27	15.2	5	0.15
	569	17 Aquilæ ζ ...	3.1	...	18	59	34.36	76	19	25.7	4	0.59
15-20	570	R Aquilæ, Var. 3 ...	7.3	6	19	0	15.19 ²⁰	81	57	37.6	7	0.63
	571	... ..	9.0	1	19	7	43.37	129	46	49.4	1	0.70
	572	42 Sagittarii ψ ...	5.2	...	19	7	45.07	115	23	24.1	2	0.61
	573	... ..	8.6	1	19	10	49.78	146	12	4.1	1	0.71
52-32	574	O. A. S. 19353 ...	9.0	1	19	10	52.95 ³²	116	18	4.4	1	0.62
11-55	575	O. A. S. 19366 ...	8.5	2	19	11	11.56 ⁵	116	16	8.8	2	0.67
51-30	576	25 Aquilæ ω ...	5.1	...	19	11	51.27 ³⁰	78	37	53.7	4	0.62
	577	45 Sagittarii ρ ² ...	6.1	...	19	14	26.35	108	32	30.1	2	0.61
5-60	578	30 Aquilæ δ ...	3.5	...	19	19	5.59 ⁶⁰	87	8	10.9	9	0.64
46-06	579	... ..	9.2	2	19	25	46.04 ⁶	127	48	15.0	2	0.59
	580	52 Sagittarii h ³ ...	4.6	...	19	28	58.49	115	9	42.0	2	0.60
	581	Lacaille 8173 ...	8.2	1	19	32	19.41	143	14	21.8	1	0.70
	582	O. A. S. 19347 ...	8.5	5	19	32	54.79	108	10	51.2	5	0.71
	583	13 Cygni θ ...	4.6	...	19	33	2.20	40	4	14.3	2	0.56
24-48	584	... ..	9.5	5	19	33	24.31 ⁴⁸	40	5	6.7	5	0.62
	585	50 Aquilæ γ ...	2.8	...	19	40	13.30	79	41	40.3	4	0.67
	586	S Vulpeculæ, Var. 2 ...	8.6	3	19	43	11.43	63	1	42.0	3	0.70
	587	53 Aquilæ α (<i>Altair</i>) ...	1.0	...	19	44	35.17	81	27	55.0	2	0.69
39-17	588	Lacaille 8249 ...	7.8	2	19	44	39.29 ¹⁷	122	17	59.4	2	0.66
	589	57 Sagittarii ...	6.2	...	19	44	49.02	109	21	56.3	2	0.54
	590	χ Cygni, Var. 2 ...	5.9	5	19	45	41.09	57	24	21.9	5	0.73
	591	60 Aquilæ β ...	4.0	...	19	49	4.46	83	54	31.2	5	0.65
	592	λ Ursæ Minoris ...	6.5	...	19	51	18.21	1	4	26.4	1	0.69
22-12	593	... ..	9.1	1	19	56	22.93 ¹²	151	50	12.8	2	0.85
	694	Lacaille 8370 ...	7.5	1	20	7	45.40	152	17	41.0	1	0.72
	595	... ..	7.6	2	20	10	13.58	149	7	26.2	2	0.72

562—565.—Comparison stars for Amphitrite in 1863.

563.—Comparison star for Donati's Comet of 1858.

574—575.—Comparison stars for D'Arrest's Comet of 1870.

582.—Comparison star for Hestia in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
561	3 Lyræ α ...	+ 2.0132	+ 0.0016	+ 0.017	- 2.846	- 0.290	- 0.30	2341
562	... ..	+ 3.7916	- 0.0040	...	- 3.077	- 0.546	...	...
563	... ..	+ 4.5018	- 0.0103	...	- 3.108	- 0.648	...	...
564	R Scuti Var. 1 ...	+ 3.2068	- 0.0011	...	- 3.542	- 0.458	...	...
565	O. A. S. 18773 ...	+ 3.7781	- 0.0055	...	- 3.911	- 0.538	...	...
566	10 Lyræ β ...	+ 2.2139	+ 0.0015	- 0.001	- 3.946	- 0.315	- 0.02	2369
567	32 Sagittarii ν' ...	+ 3.6254	- 0.0043	- 0.003	- 4.041	- 0.516	+ 0.02	2364
568	R. P. L. 131 ...	- 18.4164	- 1.5506	...	- 4.862	+ 2.607	...	...
569	17 Aquilæ ζ ...	+ 2.7578	+ 0.0003	- 0.003	- 5.154	- 0.387	+ 0.09	2405
570	R. Aquilæ, Var. 3 ...	+ 2.8900	- 0.0003	...	- 5.211	- 0.405	...	...
571	... ..	+ 4.1371	- 0.0144	...	- 5.840	- 0.576	...	...
572	42 Sagittarii ψ ...	+ 3.6815	- 0.0075	+ 0.000	- 5.843	- 0.510	+ 0.03	2418
573	... ..	+ 4.9748	- 0.0328	...	- 6.099	- 0.689	...	...
574	O. A. S. 19353 ...	+ 3.7016	- 0.0086	...	- 6.104	- 0.511	...	...
575	O. A. S. 19366 ...	+ 3.7005	- 0.0085	...	- 6.130	- 0.511	...	...
576	25 Aquilæ ω ...	+ 2.8165	- 0.0003	- 0.001	- 6.185	- 0.388	- 0.03	2432
577	45 Sagittarii ρ^a ...	+ 3.4985	+ 0.0062	+ 0.006	- 6.399	- 0.481	+ 0.07	2436
578	30 Aquilæ δ ...	+ 3.0092	- 0.0018	+ 0.015	- 6.785	- 0.410	- 0.09	2451
579	... ..	+ 4.0376	- 0.0167	...	- 7.332	- 0.545	...	...
580	52 Sagittarii h^a ...	+ 3.6534	- 0.0102	+ 0.002	- 7.592	- 0.490	+ 0.01	2478
581	Lacaille 8173 ...	+ 4.7186	- 0.0358	...	- 7.861	- 0.631	...	...
582	O. A. S. 19847 ...	+ 3.4757	- 0.0077	...	- 7.909	- 0.463	...	...
583	13 Cygni θ ...	+ 1.6120	- 0.0016	- 0.003	- 7.920	- 0.213	- 0.24	2498
584	... ..	+ 1.6142	- 0.0015	...	- 7.953	- 0.213	...	...
585	50 Aquilæ γ ...	+ 2.8519	- 0.0011	- 0.001	- 8.493	- 0.373	- 0.01	2511
586	S Vulpeculæ, Var. 2... ..	+ 2.4597	+ 0.0011	...	- 8.726	- 0.319	...	...
587	53 Aquilæ α ...	+ 2.8920	- 0.0014	+ 0.035	- 8.838	- 0.374	- 0.38	2524
588	Lacaille 8249 ...	+ 3.8309	- 0.0160	...	- 8.842	- 0.498	...	...
589	57 Sagittarii ...	+ 3.4938	- 0.0094	- 0.001	- 8.856	- 0.454	+ 0.05	2522
590	χ Cygni Var. 2 ...	+ 2.3068	+ 0.0013	...	- 8.923	- 0.297	...	...
591	60 Aquilæ β ...	+ 2.9453	- 0.0020	+ 0.001	- 9.188	- 0.378	+ 0.47	2538
592	λ Ursæ Minoris ...	- 60.0192	- 29.7896	- 0.050	- 9.361	+ 7.745	+ 0.00	2795
593	... ..	+ 5.2544	- 0.0700	...	- 9.751	- 0.668	...	...
594	Lacaille 8370 ...	+ 5.2326	- 0.0772	...	- 10.609	- 0.643	...	...
595	... ..	+ 4.9569	- 0.0647	...	- 10.792	- 0.604	...	...

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.	
				h.	m.	s.	°	'	"			
36-37	596	5 Capricorni α^1 ...	4.5	...	20	10	36.397	102	53	55.8	2	0.61
0.33	597	6 Capricorni α^2 ...	3.8	...	20	11	0.382	102	56	12.9	7	0.65
	598	... ..	8.0	2	20	11	46.08	106	15	5.5	2	0.69
	599	9 Capricorni β ...	3.4	...	20	13	52.65	105	10	51.7	1	0.73
	600	α Pavonis ...	2.1	...	20	15	35.39	147	8	23.2	1	0.60
	601	11 Capricorni ρ ...	5.0	...	20	21	36.87	108	13	53.5	11	0.70
	602	... ..	8.9	1	20	23	33.27	125	56	45.4	1	0.72
	603	... ..	8.3	2	20	23	50.17	124	55	16.6	2	0.74
54.31	604	... ..	8.8	2	20	26	54.321	150	16	31.4	2	0.64
	605	R. P. L. 143 ...	6.7	...	20	28	26.14	5	16	41.0	3	0.36
	606	... ..	9.0	1	20	30	26.15	143	50	10.3	1	0.76
	607	... ..	8.0	1	20	31	36.61	149	53	33.3	1	0.70
	608	14 Capricorni τ^2 ...	5.3	...	20	32	10.12	105	23	54.2	1	0.56
	609	8 Capricorni, Var. 1 ...	8.9	1	20	34	28.38	109	30	28.6	1	0.72
6.09	610	50 Cygni α (Deneb) ...	1.5	...	20	37	6.089	45	10	21.2	8	0.69
	611	... ..	9.3	2	20	38	48.59	143	1	23.9	2	0.73
	612	W. B. E. XX. 1024 ...	9.3	1	20	41	23.16	105	22	20.1	1	0.74
	613	32 Vulpeculae ...	5.1	...	20	49	8.81	62	25	28.1	10	0.72
	614	61 Cygni—1st ...	5.5	...	21	1	12.22	51	52	26.5	1	0.75
	615	... ..	9.3	2	21	1	44.02	119	58	16.0	2	0.72
	616	... ..	9.5	1	21	1	45.08	120	0	31.1	1	0.73
	617	64 Cygni ζ ...	3.5	...	21	7	31.88	60	17	34.6	15	0.73
	618	32 Capricorni ι ...	4.4	...	21	15	10.37	107	22	26.2	3	0.69
	619	5 Cephei α ...	2.6	...	21	15	32.70	27	57	6.6	1	0.81
	620	22 Aquarii β ...	3.1	...	21	24	52.34	96	7	43.0	14	0.75
	621	8 Cephei β ...	3.4	...	21	27	0.98	19	59	47.7	4	0.73
	622	... ..	8.6	1	21	30	22.13	98	23	1.6	1	0.70
	623	8 Pegasi ϵ ...	2.4	...	21	37	56.88	80	42	21.8	4	0.76
37.37	624	μ Cephei, Var. 2 ...	Var.	...	21	39	37.2837	31	48	6.4	3	0.75
	625	48 Capricorni λ ...	5.4	...	21	39	41.82	101	57	3.2	2	0.72
	626	16 Pegasi ...	5.0	...	21	47	17.01	64	40	18.3	8	0.75
	627	ϵ Indi ...	5.2	...	21	53	38.25	147	18	24.8	3	0.70
	628	34 Aquarii α ...	3.2	...	21	59	15.55	90	56	9.0	2	0.78
	629	α Gruis ...	1.9	...	22	0	13.33	137	34	23.2	7	0.77
	630	... ..	8.0	4	22	0	29.33	115	0	33.4	4	0.74

598.—Comparison star for Hestia in 1865.
 615—616.—Comparison stars for Sylvia in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
596	5 Capricorni α^1 ...	+ 3.3301	- 0.0084	- 0.001	- 10.820	- 0.406	- 0.03	2593
597	6 Capricorni α^2 ...	+ 3.3305	- 0.0084	+ 0.002	- 10.850	- 0.403	- 0.02	2595
598	... ..	+ 3.3993	- 0.0098	...	- 10.905	- 0.412	...	...
599	9 Capricorni β ...	+ 3.3749	- 0.0075	+ 0.001	- 11.059	- 0.406	- 0.02	2609
600	α Pavonis ...	+ 4.7901	- 0.0594	- 0.000	- 11.185	- 9.574	+ 0.10	Stone
601	11 Capricorni ρ ...	+ 3.4311	- 0.0115	- 0.003	- 11.613	- 0.403	+ 0.01	2626
602	... ..	+ 3.8578	- 0.0237	...	- 11.756	- 0.451	...	...
603	... ..	+ 3.8278	- 0.0229	...	- 11.776	- 0.447	...	...
604	... ..	+ 4.9491	- 0.0747	...	- 11.993	- 0.575	...	...
605	R. P. L. 113 ...	- 8.4607	- 1.2701	...	- 12.099	+ 0.990	...	...
606	... ..	+ 4.5213	- 0.0535	...	- 12.238	- 0.519	...	...
607	... ..	+ 4.8015	- 0.0742	...	- 12.320	- 0.560	...	...
608	14 Capricorni τ^2 ...	+ 3.3622	- 0.0105	- 0.001	- 12.359	- 0.382	+ 0.01	2652
609	S Capricorni, Var. L. ...	+ 3.4423	- 0.0128	...	- 12.516	- 0.385	...	...
610	50 Cygni α ...	+ 2.0435	+ 0.0021	- 0.003	- 12.695	- 0.226	- 0.00	2679
611	... ..	+ 4.4384	- 0.0530	...	- 12.811	- 0.495	...	...
612	W. B. E. XX. 1024 ...	+ 3.3524	- 0.0109	...	- 12.982	- 0.367	...	...
613	32 Vulpeculae ...	+ 2.5556	+ 0.0026	- 0.002	- 13.404	- 0.270	+ 0.00	2700
614	61 Cygni—1st ...	+ 2.3341	+ 0.0044	+ 0.344	- 14.255	- 0.233	- 3.23	2744
615	... ..	+ 3.6132	- 0.0214	...	- 14.288	- 0.365	...	...
616	... ..	+ 3.6140	- 0.0215	...	- 14.289	- 0.364	...	...
617	64 Cygni ζ ...	+ 2.5508	+ 0.0038	- 0.002	- 14.639	- 0.248	+ 0.07	2760
618	32 Capricorni ι ...	+ 3.3478	- 0.0130	- 0.000	- 15.088	- 0.316	- 0.01	2772
619	5 Cephei α ...	+ 1.4155	- 0.0071	+ 0.021	- 15.109	- 0.130	- 0.03	2786
620	22 Aquarii β ...	+ 3.1620	- 0.0071	- 0.001	- 15.633	- 0.282	+ 0.00	2797
621	8 Cephei β ...	+ 0.7979	- 0.0345	+ 0.001	- 15.751	- 0.065	+ 0.01	2811
622	... ..	+ 3.1919	- 0.0082	...	- 15.930	- 0.276	...	...
623	8 Pegasi ϵ ...	+ 2.9451	- 0.0005	+ 0.001	- 16.324	- 0.242	- 0.01	2835
624	μ Cephei, Var. 2 ...	+ 1.8327	+ 0.0039	...	- 16.409	- 0.147	...	...
625	48 Capricorni λ ...	+ 3.2349	- 0.0101	+ 0.001	- 16.413	- 0.265	+ 0.01	2844
626	16 Pegasi ...	+ 2.7259	+ 0.0052	- 0.001	- 16.785	- 0.210	+ 0.00	2864
627	ϵ Indi ...	+ 4.1638	- 0.0724	+ 0.480	- 17.080	- 0.313	+ 2.45	Stone
628	34 Aquarii α ...	+ 3.0832	- 0.0041	- 0.001	- 17.336	- 0.219	- 0.00	2890
629	α Gruis ...	+ 3.8024	- 0.0457	+ 0.011	- 17.378	- 0.270	+ 0.15	Stone
630	... ..	+ 3.3829	- 0.0183	...	- 17.389	- 0.239	...	...

600—629.—Proper motions from Stone's *Cape Catalogue*.

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
631	...	10.0	1	22	2	30.68	114	57	12.0	1	0.76
632	38 Aquarii ϵ^2	5.4	...	22	3	49.94	102	11	20.4	3	0.82
633	O. A. S. 22014	7.4	4	22	7	40.77	114	38	0.9	4	0.70
634	Lalande 43402	9.3	2	22	8	52.09	99	1	38.9	2	0.78
635	43 Aquarii θ	4.3	...	22	10	7.79	98	24	52.7	3	0.78
636	O. A. S. 22070	8.1	3	22	12	23.65	114	26	18.1	3	0.73
637	...	9.3	1	22	13	44.86	146	25	54.5	1	0.76
638	...	9.5	2	22	19	56.38	88	40	31.9	2	0.82
639	R. P. L. 150	5.4	...	22	23	4.97	4	32	0.4	1	0.20
640	R. P. L. 151	6.9	...	22	23	32.81	4	25	5.2	7	0.49
641	O. A. S. 22193	7.5	3	22	23	49.88	116	43	17.3	3	0.70
642	Taylor 10485	7.6	3	22	24	26.60	32	14	45.4	3	0.70
643	...	9.3	1	22	24	50.33	135	39	26.2	1	0.73
644	62 Aquarii η	4.2	...	22	28	49.77	90	46	16.9	3	0.83
645	...	9.1	1	22	34	49.37	155	28	31.5	1	0.85
646	42 Pegasi ζ	3.6	...	22	35	7.66	79	49	51.7	11	0.77
647	74 Aquarii...	5.8	...	22	46	47.23 ⁶	102	17	28.8	1	0.67
648	O. A. S. 22487	8.7	4	22	48	17.51	114	38	41.0	4	0.71
649	O. A. S. 22497	8.2	3	22	49	22.00	114	49	39.9	3	0.72
650	S Aquarii, Var. 2	7.9	4	22	50	17.89	111	1	14.6	5	0.75
651	24 Pisc. Aust. α (Fomalhaut)	1.3	...	22	50	37.71	120	17	41.2	6	0.82
652	4 Piscium β	4.6	...	22	57	24.68	86	51	47.1	3	0.76
653	53 Pegasi β , Var. 1	2.6	...	22	57	37.01	62	36	20.6	2	0.81
654	...	9.0	1	22	57	44.53	149	35	5.3	1	0.83
655	54 Pegasi α	2.6	...	22	58	26.06	75	28	39.8	8	0.75
656	6 Piscium γ	3.8	...	23	10	34.90	87	24	40.9	5	0.78
657	...	8.9	2	23	11	49.01	136	51	25.6	2	0.72
658	...	8.5	1	23	12	37.88	137	0	59.5	1	0.85
659	...	9.4	1	23	12	42.43 ⁷	127	21	54.9	1	0.69
660	96 Aquarii	5.7	...	23	12	48.88	95	49	4.2	1	0.69
661	Groombridge 4040	6.7	3	23	13	17.82	17	0	19.1	4	0.84
662	...	10.5	...	23	20	11.80	109	16	25.0	1	0.86
663	8 Piscium κ	5.0	...	23	20	25.31	89	26	22.2	5	0.82
664	10 Piscium θ	4.4	...	23	21	31.46	84	19	5.2	1	0.70
665	...	8.5	4	23	26	14.07	108	45	7.5	4	0.80

47-26

42-47

630—631—633—636—662—665.—Comparison stars for D'Arrest's Comet in 1870.
 634.—Comparison star for Ansonia in 1862.
 639.—Groombridge 3820.
 640.—Groombridge 3824.
 641—648—649.—Comparison stars for Isis in 1864.
 642.— δ Cephei 1st, B. A. O. 7847.
 647.—Comparison star for Mars in 1877.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
631	... ..	+ 3·3772	- 0·0155	...	- 17·477	- 0·283	...	...
632	38 Aquarii ϵ^3	+ 3·2123	- 0·0090	+ 0·001	- 17·534	- 0·220	- 0·01	2909
633	O. A. S. 22014	+ 3·3607	- 0·0179	...	- 17·694	- 0·222	...	...
634	Lalande 43402	+ 3·1712	- 0·0079	...	- 17·743	- 0·207	...	...
635	43 Aquarii θ	+ 3·1634	- 0·0075	+ 0·006	- 17·794	- 0·205	+ 0·02	2929
636	O. A. S. 22070	+ 3·3471	- 0·0177	...	- 17·885	- 0·212	...	...
637	... ..	+ 3·9732	- 0·0677	...	- 17·937	- 0·253	...	...
638	... ..	+ 3·0591	- 0·0025	...	- 18·173	- 0·180	...	...
639	R. P. L. 150 ...	- 3·8477	- 1·2043	+ 0·052	- 18·288	+ 0·238	- 0·04	2993
640	R. P. L. 151 ...	- 3·9969	- 1·2707	+ 0·031	- 18·300	+ 0·246	- 0·02	...
641	O. A. S. 22193	+ 3·3464	- 0·0193	...	- 18·315	- 0·191	...	...
642	Taylor 10435	+ 2·2139	+ 0·0166	+ 0·004	- 18·336	- 0·123	- 0·01	Gr.
643	... ..	+ 3·6240	- 0·0412	...	- 18·350	- 0·206	...	...
644	62 Aquarii η ...	+ 3·0792	- 0·0031	+ 0·006	- 18·489	- 0·166	+ 0·11	2979
645	... ..	+ 4·1365	- 0·1067	...	- 18·685	- 0·213	...	...
646	42 Pegasi ζ ...	+ 2·9854	+ 0·0023	+ 0·004	- 18·695	- 0·149	+ 0·02	2992
647	74 Aquarii ...	+ 3·1637	- 0·0085	+ 0·000	- 19·040	- 0·137	+ 0·01	3021
648	O. A. S. 22437	+ 3·2609	- 0·0166	...	- 19·080	- 0·138	...	...
649	O. A. S. 22497	+ 3·2598	- 0·0168	...	- 19·110	- 0·136	...	...
650	S. Aquarii, Var. 2 ...	+ 3·2261	- 0·0140	...	- 19·134	- 0·134	...	...
651	24 Piscis Aust. α ...	+ 3·3050	- 0·0210	+ 0·023	- 19·143	- 0·135	+ 0·16	3032
652	4 Piscium β ...	+ 3·0524	+ 0·0001	- 0·000	- 19·309	- 0·112	+ 0·02	3046
653	53 Pegasi β , Var. 1 ...	+ 2·8860	+ 0·0117	+ 0·013	- 19·316	- 0·106	- 0·13	3047
654	... ..	+ 3·6834	- 0·0705	...	- 19·319	- 0·138	...	...
655	54 Pegasi α ...	+ 2·9803	+ 0·0056	+ 0·003	- 19·335	- 0·107	+ 0·03	3050
656	6 Piscium γ ...	+ 3·0592	+ 0·0005	+ 0·049	- 19·590	- 0·087	+ 0·02	3082
657	... ..	+ 3·3699	- 0·0382	...	- 19·613	- 0·098	...	...
658	... ..	+ 3·3667	- 0·0384	...	- 19·627	- 0·094	...	...
659	... ..	+ 3·2815	- 0·0263	...	- 19·629	- 0·087	...	...
660	96 Aquarii ...	+ 3·1001	- 0·0038	+ 0·011	- 19·631	- 0·085	- 0·00	3090
661	Groombridge 4040 ...	+ 2·1874	+ 0·0392	...	- 19·640	- 0·057	...	...
662	... ..	+ 3·1529	- 0·0111	...	- 19·753	- 0·071	...	...
663	8 Piscium κ ...	+ 3·0699	0·0000	+ 0·004	- 19·757	- 0·069	+ 0·10	3116
664	10 Piscium θ ..	+ 3·0500	+ 0·0026	- 0·010	- 19·773	- 0·067	+ 0·05	3120
665	... ..	+ 3·1388	- 0·0104	...	- 19·837	- 0·058	...	...

642.—Proper motions from Greenwich Catalogue, 1864.

Mean Positions of Stars for 1873, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>o</i>	<i>'</i>	<i>"</i>		
666	R. P. L. 158	5.6	...	23	27	50.54	3	23	33.5	2	0.29
667	... ..	9.3	4	23	28	9.82	108	24	45.7	4	0.84
668	17 Piscium	4.8	...	23	33	25.07	85	3	40.9	2	0.87
669	18 Piscium λ	4.7	...	23	35	33.94	88	55	8.5	2	0.72
670	... ..	8.5	1	23	35	41.00	148	39	58.7	1	0.72
671	R. Aquarii, Var. 1	9.4	4	23	37	14.92	105	59	16.6	4	0.79
672	19 Piscium	5.2	...	23	39	54.14	87	13	3.5	3	0.73
673	20 Piscium	5.7	...	23	41	24.76	93	28	4.1	3	0.81
674	δ Sculptoris	4.6	...	23	42	18.40	118	49	56.5	1	0.89
675	... ..	9.0	1	23	42	32.93	150	47	0.3	1	0.75
676	... ..	9.4	1	23	43	15.50	129	40	50.1	1	0.85
677	28 Piscium ω	4.2	...	23	52	47.38	83	50	23.3	3	0.84
678	29 Piscium	5.1	...	23	55	18.79	93	44	4.7	1	0.73
679	... ..	9.4	1	23	56	54.30	126	40	10.4 21.4	1	0.85
680	Taylor 10997	9.2	1	23	58	31.16	126	43	29.9	1	0.86

22.9

666.—Groombridge 4101.

667.—Comparison star for D'Arrest's Comet in 1870.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers- Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
666	R. P. L. 158 ...	- 0.0817	- 0.5241	+ 0.884	- 19.857	+ 0.011	- 0.01	Main
667	... ..	+ 3.1338	- 0.0101	...	- 19.861	- 0.054	...	...
668	17 Piscium ε ...	+ 3.0587	+ 0.0030	+ 0.023	- 19.920	- 0.042	+ 0.44	3148
669	18 Piscium λ ...	+ 3.0696	+ 0.0011	- 0.011	- 19.940	- 0.039	+ 0.14	3153
670	... ..	+ 3.3049	- 0.0561	...	- 19.941	- 0.043	...	...
671	R. Aquarii, Var. 1 ...	+ 3.1093	- 0.0081	...	- 19.955	- 0.036	...	...
672	19 Piscium ...	+ 3.0666	+ 0.0021	- 0.005	- 19.977	- 0.031	+ 0.02	3162
673	20 Piscium ...	+ 3.0737	- 0.0010	+ 0.005	- 19.988	- 0.028	- 0.00	3165
674	♁ Sculptoris ...	+ 3.1239	- 0.0161	+ 0.009	- 19.994	- 0.026	+ 0.10	Stone
675	... ..	+ 3.2541	- 0.0589	...	- 19.996	- 0.028	...	...
676	... ..	+ 3.1532	- 0.0251	...	- 20.001	- 0.025	...	...
677	28 Piscium ω ...	+ 3.0676	+ 0.0047	+ 0.009	- 20.045	- 0.005	+ 0.11	3191
678	29 Piscium ...	+ 3.0738	- 0.0004	- 0.000	- 20.051	0.000	+ 0.00	3196
679	... ..	+ 3.0857	- 0.0208	...	- 20.053	+ 0.003	...	...
680	Taylor 10997 ...	+ 3.0785	- 0.0206	...	- 20.054	+ 0.006	...	...

666.—Proper motions from Main's list.

674.—Proper motions from Stone's Cape Catalogue.

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