
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1868

REDUCED TO JANUARY 1, OF THAT YEAR.

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	21 Androm α (<i>Alpherat</i>)...	2.0	...	0	1	34.06	61	38	20.1	4	0.83
2	... ..	9.0	1	0	2	4.72	127	28	41.1	1	0.86
3	Lacaille 9757	7.0	1	0	4	37.48	181	6	27.8	1	0.76
4	Lacaille 3	6.9	1	0	6	18.72	148	35	57.8	1	0.74
5	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	6	26.86	75	33	2.6	6	0.84
6	... ..	7.5	1	0	12	53.98	150	25	17.2	1	0.88
7	Taylor 64	7.1	1	0	14	12.84	129	58	18.4	1	0.76
8	Lalande 421	7.5	...	0	15	59.73	51	58	41.5	1	0.78
9	... ..	8.5	1	0	16	59.36	26	25	54.8	1	0.86
10	... ..	8.8	2	0	18	34.00	26	52	41.1	2	0.80
11	44 Piscium	5.8	...	0	18	38.24	83	47	30.4	2	0.75
12	... ..	9.0	1	0	19	11.99	26	35	19.7	1	0.89
13	Lacaille 88	7.8	2	0	19	42.86	180	22	43.8	2	0.84
14	... ..	9.0	3	0	22	54.07	94	44	40.1	3	0.84
15	12 Ceti	6.2	...	0	23	13.17	94	41	15.0	7	0.83
16	... ..	8.3	...	0	26	55.90	144	53	5.0	1	0.86
17	Taylor 148	6.0	1	0	28	10.49	143	6	10.6	1	0.78
18	13 Ceti	5.3	...	0	28	27.18	94	19	11.8	2	0.82
19	... ..	8.4	2	0	32	3.19	128	43	33.0	2	0.78
20	18 Cassiopeæ α Var. 2 ...	2.2	...	0	33	1.85	34	11	15.5	1	0.88
21	... ..	9.2	2	0	35	11.03	83	27	34.3	2	0.88
22	16 Ceti β	2.1	...	0	36	57.70	108	42	42.9	7	0.84
23	W. B. E. O. 628... ..	8.9	1	0	37	6.18	93	48	10.3	1	0.89
24	... ..	9.2	1	0	40	4.73	150	43	36.1	1	0.90
25	... ..	9.1	1	0	43	7.14	89	3	1.0	1	0.88
26	Lacaille 234	7.2	1	0	45	5.86	129	14	43.1	1	0.88
27	... ..	9.3	2	0	45	20.86	129	12	34.8	2	0.87
28	... ..	9.1	1	0	47	46.01	153	38	59.9	1	0.89
29	R. P. L. 10	6.6	...	0	48	4.22	1	41	9.1	1	0.76
30	... ..	9.8	1	0	49	5.83	153	48	31.2	1	0.87
31	... ..	9.1	1	0	49	6.18	133	45	55.3	1	0.88
32	... ..	9.1	1	0	51	14.99	130	39	39.3	1	0.87
33	... ..	8.5	2	0	52	2.03	130	40	44.6	2	0.89
34	W. B. E. O. 897... ..	9.0	1	0	52	24.55	92	48	37.6	1	0.88
35	71 Piscium ϵ	4.5	...	0	56	5.62	82	49	16.5	8	0.86

8.—Observed for map of R. Andromedæ Var 1.

20.— α Cassiopeæ Var. 2 (*Shedar*) changes irregularly between 2.2 and 2.8 magnitude.

23.—Comparison star for Europa in 1861.

25.—Comparison star for Mars in 1862.

29.—Groombridge 144.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3·0770	+ 0·0182	+ 0·009	- 20·055	+ 0·013	+ 0·15	4
2	... ..	+ 3·0628	- 0·0207	...	- 20·054	+ 0·013	...	...
3	Lacaille 9757 ...	+ 3·0486	- 0·0236	...	- 20·050	+ 0·018	...	22
4	Lacaille 3 ...	+ 3·0118	- 0·0449	...	- 20·047	+ 0·021	...	...
5	88 Pegasi γ (<i>Algenib</i>)	+ 3·0817	+ 0·0100	0·000	- 20·047	+ 0·022	+ 0·02	26
6	... ..	+ 2·9388	- 0·0458	...	- 20·022	+ 0·033	...	...
7	Taylor 64 ...	+ 3·0021	- 0·0211	...	- 20·016	+ 0·037	...	69
8	Lalande 421 ...	+ 3·1449	+ 0·0271	...	- 20·006	+ 0·041	...	...
9	... ..	+ 3·2713	+ 0·0704	...	- 20·000	+ 0·044	...	...
10	... ..	+ 3·2856	+ 0·0697	...	- 19·989	+ 0·048	...	...
11	44 Piscium ...	+ 3·0744	+ 0·0035	- 0·002	- 19·989	+ 0·045	+ 0·02	87
12	... ..	+ 3·2956	+ 0·0710	...	- 19·984	+ 0·049	...	...
13	Lacaille 88 ...	+ 2·9745	- 0·0207	...	- 19·981	+ 0·046	...	...
14	... ..	+ 3·0611	+ 0·0007	...	- 19·955	+ 0·054	...	...
15	12 Ceti ...	+ 3·0809	+ 0·0008	- 0·002	- 19·952	+ 0·055	+ 0·01	112
16	... ..	+ 2·8493	- 0·0325	...	- 19·916	+ 0·058	...	...
17	Taylor 148 ...	+ 2·8537	- 0·0303	...	- 19·903	+ 0·060	...	143
18	13 Ceti ...	+ 3·0596	+ 0·0014	+ 0·017	- 19·900	+ 0·064	+ 0·04	145
19	... ..	+ 2·9223	- 0·0176	...	- 19·858	+ 0·069	...	...
20	18 Cassiopeæ α Var. 2	+ 3·3547	+ 0·0553	+ 0·006	- 19·847	+ 0·080	+ 0·04	169
21	... ..	+ 3·0956	+ 0·0073	...	- 19·819	+ 0·078	...	...
22	16 Ceti β ...	+ 2·9994	- 0·0055	+ 0·013	- 19·795	+ 0·080	- 0·02	196
23	W. B. E. O. 628 ...	+ 3·0579	+ 0·0020	...	- 19·793	+ 0·080	...	...
24	... ..	+ 2·6572	- 0·0340	...	- 19·749	+ 0·075	...	...
25	... ..	+ 3·0763	+ 0·0048	...	- 19·700	+ 0·092	...	...
26	Lacaille 234 ...	+ 2·8585	- 0·0161	...	- 19·667	+ 0·090	...	...
27	... ..	+ 2·8576	- 0·0160	...	- 19·663	+ 0·090	...	...
28	... ..	+ 2·5136	- 0·0328	...	- 19·620	+ 0·084	...	...
29	R. P. L. 10 ...	+ 12·5367	+ 7·1088	+ 0·061	- 19·615	+ 0·389	+ 0·03	240
30	... ..	+ 2·4944	- 0·0323	...	- 19·597	+ 0·085	...	...
31	... ..	+ 2·7999	- 0·0183	...	- 19·596	+ 0·095	...	...
32	... ..	+ 2·8074	- 0·0160	...	- 19·555	+ 0·099	...	...
33	... ..	+ 2·8136	- 0·0160	...	- 19·541	+ 0·100	...	...
34	W. B. E. O. 897 ...	+ 3·0573	+ 0·0034	...	- 19·533	+ 0·109	...	...
35	71 Piscium ϵ ...	+ 3·1129	+ 0·0087	- 0·002	- 19·547	+ 0·119	0·00	288

15.—18.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 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>		
36	... ..	8.2	1	1	3	18.27	150	15	0.8	1	0.79
37	... ..	8.9	2	1	4	6.11	18	33	35.4	2	0.87
38	... ..	9.1	1	1	4	57.63	127	20	28.4	1	0.88
39	86 Piscium ζ ... 1st...	5.4	...	1	6	50.19	83	7	25.0	4	0.83
40	O. A. N. 1363	7.0	1	1	9	0.64	18	17	42.9	1	0.80
41	1 Urs. Min. α (<i>Polaris</i>) ...	2.2	...	1	10	36.32	1	23	40.2	10	0.64
42	Brightone 263	8.0	1	1	15	9.38	150	46	2.3	1	0.87
43	45 Ceti θ^1	3.8	...	1	17	25.51	98	51	50.3	10	0.88
44	98 Piscium μ	5.2	...	1	23	16.11	84	32	15.5	1	0.75
45	99 Piscium η	4.5	...	1	24	25.36	75	20	9.5	10	0.88
46	Taylor 496	8.0	1	1	25	51.12	140	34	56.8	1	0.88
47	Taylor 514... ..	6.2	1	1	28	46.45	73	14	37.3	1	0.89
48	... ..	8.4	2	1	31	0.37	130	40	21.8	2	0.93
49	... ..	8.5	2	1	31	33.45	130	51	3.8	2	0.83
50	Taylor 539	5.9	1	1	31	54.34	148	56	42.3	1	0.88
51	106 Piscium ν	4.7	...	1	34	33.77	85	10	54.0	10	0.89
52	... ..	9.3	1	1	40	33.08	128	35	52.0	1	0.93
53	111 Piscium ξ	4.7	...	1	46	43.52	87	27	54.0	3	0.78
54	Lacaille 550	8.1	2	1	46	45.90	129	23	55.9	2	0.85
55	6 Arietis β	2.8	...	1	47	21.08	69	50	20.7	10	0.88
56	... ..	9.3	2	1	49	25.21	126	6	22.2	2	0.90
57	... ..	9.8	2	1	49	36.74	86	45	8.2	2	0.95
58	W. B. E. 1. 892.	9.3	2	1	51	9.10	86	58	29.2	2	0.95
59	... ..	9.0	1	1	52	26.62	145	33	16.5	1	0.93
60	... ..	9.7	1	1	53	5.73	151	21	44.4	1	0.87
61	W. B. E. 1. 940	7.6	2	1	53	30.07	86	15	8.3	2	0.97
62	... ..	9.6	1	1	56	17.16	129	26	7.8	1	0.87
63	... ..	9.5	3	1	56	17.60	87	28	22.2	3	0.95
64	... ..	9.4	2	1	57	40.55	87	34	24.8	2	0.94
65	13 Arietis α	2.0	1	1	59	44.17	67	9	48.7	2	0.85
66	... ..	9.7	2	2	1	3.88	87	17	23.4	2	0.92
67	... ..	9.2	1	2	1	10.33	148	46	29.3	1	0.80
68	Taylor 697	7.0	1	2	1	54.27	145	42	48.3	1	0.80
69	Lalande 4053	7.3	2	2	4	52.40	87	10	14.5	3	0.92
70	... ..	9.7	1	2	6	13.16	151	22	58.3	1	0.87

37.—40.—Stars for map of S Cassiopea Var. 4.

57.—58.—61.—Comparison stars for Sylvia in 1868.

63.—64.—66.—69.—Comparison stars for Camilla in 1868.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	... ..	+ 2.4343	- 0.0237	...	- 19.295	+ 0.105	...	...
37	... ..	+ 4.1714	+ 0.1517	...	- 19.276	+ 0.177	...	...
38	... ..	+ 2.7867	- 0.0123	...	- 19.254	+ 0.122	...	...
39	86 Piscium ζ 1st...	+ 3.1185	+ 0.0090	+ 0.008	- 19.208	+ 0.139	+ 0.07	368
40	O. A. N. 1303 ...	+ 4.2733	+ 0.1510	...	- 19.150	+ 0.194	...	...
41	1 Urs. Min. α (Polaris)	+ 19.7308	+ 13.8499	+ 0.065	- 19.110	+ 0.881	0.00	360
42	Baird's 296 ...	+ 2.3026	- 0.0190	...	- 18.986	+ 0.116	...	...
43	45 Ceti θ^1 ...	+ 3.0030	+ 0.0018	- 0.007	- 18.922	+ 0.154	+ 0.22	420
44	98 Piscium μ ...	+ 3.1175	+ 0.0089	+ 0.019	- 18.746	+ 0.169	+ 0.18	448
45	99 Piscium η ...	+ 3.1980	+ 0.0141	0.000	- 18.710	+ 0.176	0.00	453
46	Taylor 496 ...	+ 2.4768	- 0.0141	...	- 18.664	+ 0.140	...	462
47	Taylor 514 ...	+ 3.2242	+ 0.0154	...	- 18.569	+ 0.185	...	477
48	... ..	+ 2.6254	- 0.0101	...	- 18.494	+ 0.156	...	...
49	... ..	+ 2.6224	- 0.0101	...	- 18.475	+ 0.157	...	...
50	Taylor 539 ...	+ 2.2054	- 0.0129	...	- 18.464	+ 0.133	...	497
51	106 Piscium ν ...	+ 3.1173	+ 0.0091	- 0.004	- 18.372	+ 0.191	- 0.04	513
52	... ..	+ 2.6188	- 0.0081	...	- 18.154	+ 0.171	...	...
53	111 Piscium ξ ...	+ 3.0987	+ 0.0083	- 0.002	- 17.920	+ 0.210	+ 0.08	574
54	Lacaille 550 ...	+ 2.5788	- 0.0076	...	- 17.918	+ 0.177	...	...
55	6 Arietis β ...	+ 3.2937	+ 0.0183	+ 0.002	- 17.895	+ 0.226	+ 0.11	577
56	... ..	+ 2.6240	- 0.0063	...	- 17.813	+ 0.184	...	...
57	... ..	+ 3.1070	+ 0.0087	...	- 17.805	+ 0.217	...	...
58	W. B. E. 1. 892 ...	+ 3.1050	+ 0.0087	...	- 17.742	+ 0.219	...	...
59	... ..	+ 2.1456	- 0.0077	...	- 17.689	+ 0.156	...	...
60	... ..	+ 1.9124	- 0.0040	...	- 17.683	+ 0.140	...	...
61	W. B. E. 1. 940 ...	+ 3.1137	+ 0.0092	...	- 17.645	+ 0.224	...	...
62	... ..	+ 2.5378	- 0.0064	...	- 17.528	+ 0.188	...	...
63	... ..	+ 3.1007	+ 0.0086	...	- 17.528	+ 0.228	...	...
64	... ..	+ 3.0990	+ 0.0086	...	- 17.469	+ 0.230	...	...
65	13 Arietis α ...	+ 3.3531	+ 0.0203	+ 0.012	- 17.380	+ 0.252	+ 0.15	648
66	... ..	+ 3.1039	+ 0.0089	...	- 17.321	+ 0.235	...	...
67	... ..	+ 1.9595	- 0.0036	...	- 17.317	+ 0.151	...	...
68	Taylor 697 ...	+ 2.0775	- 0.0053	...	- 17.284	+ 0.161	...	659
69	Lalande 4053 ...	+ 3.1083	+ 0.0090	...	- 17.151	+ 0.241	...	...
70	... ..	+ 1.7897	+ 0.0006	...	- 17.090	+ 0.144	...	...

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

Mean Positions of Stars for 1868 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>		
71	...	10.0	1	2	6	47.87	87	11	27.0	1	0.93
72	...	9.3	2	2	7	2.74	87	5	45.3	2	0.89
73	21 Arietis ...	5.6	...	2	8	13.63	65	34	15.1	2	0.86
74	67 Ceti ...	5.5	...	2	10	23.94	97	1	56.0	8	0.93
75	...	9.5	1	2	12	43.48	93	34	31.3	1	0.87
76	...	7.7	1	2	15	46.20	152	33	6.5	1	0.88
77	73 Ceti 3 ^a ...	4.4	...	2	21	8.59	82	7	59.6	16	0.94
78	...	7.9	1	2	27	33.02	147	11	7.2	1	0.01
79	...	9.3	1	2	28	18.33	129	45	28.2	1	0.94
80	...	9.7	1	2	29	18.26	147	36	26.1	1	0.87
81	...	9.0	2	2	31	19.04	148	30	18.1	2	0.88
82	86 Ceti γ ...	3.6	...	2	36	27.73	87	19	20.2	16	0.76
83	38 Arietis ...	5.2	...	2	37	48.13	78	6	41.3	1	0.76
84	87 Ceti μ ...	4.4	...	2	37	48.65	80	26	40.9	1	0.83
85	Taylor 940 ...	7.9	...	2	40	24.68	128	43	31.9	1	0.86
86	Taylor 978 ...	7.3	2	2	47	28.25	147	44	12.5	2	0.93
87	Lacaille 941 ...	6.8	2	2	50	33.47	146	25	7.1	2	0.44
88	Taylor 991 ...	7.6	2	2	50	42.58	120	11	12.0	2	0.93
89	91 Ceti λ ...	4.6	...	2	52	38.12	81	37	13.9	1	0.76
90	92 Ceti α (<i>Menkar</i>) ...	2.7	...	2	55	22.80	86	25	48.4	8	0.94
91	...	9.0	1	2	59	0.40	130	37	30.1	1	0.94
92	Taylor 1052 ...	6.0	1	3	0	30.45	150	15	4.7	1	0.86
93	R. P. L. 33 ...	5.9	...	3	1	33.19	5	33	54.6	1	0.97
94	...	9.5	1	3	2	18.95	130	37	59.8	1	0.94
95	57 Arietis δ ...	4.5	...	3	4	4.99	70	46	29.6	7	0.81
96	...	8.9	1	3	6	18.09	128	31	10.1	1	0.90
97	Taylor 1112 ...	8.0	1	3	10	26.01	129	29	27.6	1	0.94
98	...	9.7	1	3	12	32.13	130	9	39.9	1	0.95
99	...	8.3	1	3	12	43.22	129	26	49.0	1	0.94
100	...	8.2	1	3	13	29.66	125	38	53.3	1	0.96
101	...	8.4	1	3	17	28.93	130	44	43.1	1	0.97
102	R. P. L. 34 ...	5.9	...	3	23	30.94	3	46	34.4	2	0.46
103	5 Tauri f ...	4.3	...	3	23	35.30	77	31	4.7	2	0.50
104	...	8.9	3	3	28	54.27	128	28	42.8	3	0.61
105	Lacaille 1159 ...	6.9	1	3	30	21.30	151	27	46.1	1	0.02

71.—72.—Comparison stars for Camilla in 1868.

93.—Groombridge 595.

102.—Groombridge 642.

46.17

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	... ..	+ 3.1066	+ 0.0090	...	- 17.063	+ 0.246	...	...
72	... ..	+ 3.1077	+ 0.0090	...	- 17.052	+ 0.246	...	...
73	21 Arietis ...	+ 3.8944	+ 0.0215	- 0.005	- 16.996	+ 0.269	+ 0.07	693
74	67 Ceti ...	+ 2.9833	+ 0.0049	+ 0.008	- 16.895	+ 0.242	+ 0.14	704
75	... ..	+ 3.0264	+ 0.0064	...	- 16.781	+ 0.249	...	...
76	... ..	+ 1.6850	+ 0.0055	...	- 16.637	+ 0.140	...	...
77	78 Ceti ξ^a ...	+ 3.1788	+ 0.0117	+ 0.001	- 16.371	+ 0.276	+ 0.02	760
78	... ..	+ 1.8275	+ 0.0016	...	- 16.040	+ 0.167	...	...
79	... ..	+ 2.4016	- 0.0027	...	- 16.000	+ 0.218	...	...
80	... ..	+ 1.7944	+ 0.0024	...	- 15.947	+ 0.166	...	...
81	... ..	+ 1.7337	+ 0.0039	...	- 15.839	+ 0.162	...	...
82	86 Ceti γ ...	+ 3.1115	+ 0.0094	- 0.011	- 15.561	+ 0.294	+ 0.19	887
83	38 Arietis ...	+ 3.2510	+ 0.0137	+ 0.008	- 15.488	+ 0.308	+ 0.10	844
84	87 Ceti μ ...	+ 3.2152	+ 0.0120	+ 0.017	- 15.486	+ 0.305	+ 0.07	845
85	Taylor 940 ...	+ 2.3814	- 0.0015	...	- 15.340	+ 0.231	...	...
86	Taylor 978 ...	+ 1.6586	+ 0.0062	...	- 14.934	+ 0.168	...	899
87	Lacaille 941 ...	+ 1.7081	+ 0.0053	...	- 14.753	+ 0.175	...	...
88	Taylor 991 ...	+ 2.3332	- 0.0006	...	- 14.744	+ 0.237	...	917
89	91 Ceti λ ...	+ 3.2068	+ 0.0117	+ 0.006	- 14.628	+ 0.326	+ 0.03	929
90	92 Ceti α (Menkar) ...	+ 3.1298	+ 0.0098	- 0.002	- 14.464	+ 0.323	+ 0.11	949
91	... ..	+ 2.2646	+ 0.0003	...	- 14.242	+ 0.239	...	...
92	Taylor 1052 ...	+ 1.4143	+ 0.0120	...	- 14.149	+ 0.152	...	972
93	R. P. L. 33 ...	+ 12.8406	+ 1.5886	...	- 14.084	+ 1.839	+ 0.12	960
94	... ..	+ 2.2527	+ 0.0004	...	- 14.037	+ 0.241	...	...
95	57 Arietis δ ...	+ 3.4076	+ 0.0171	+ 0.010	- 13.925	+ 0.364	0.00	986
96	... ..	+ 2.2991	+ 0.0006	...	- 13.786	+ 0.250	...	...
97	Taylor 1112 ...	+ 2.2584	+ 0.0009	...	- 13.521	+ 0.249	...	...
98	... ..	+ 2.2318	+ 0.0012	...	- 13.384	+ 0.249	...	...
99	... ..	+ 2.2523	+ 0.0011	...	- 13.373	+ 0.251	...	...
100	... ..	+ 2.3553	+ 0.0011	...	- 13.322	+ 0.263	...	...
101	... ..	+ 2.1979	+ 0.0015	...	- 13.059	+ 0.249	...	...
102	R. P. L. 34 ...	+ 18.7877	+ 3.2085	+ 0.136	- 12.654	+ 2.131	+ 0.06	1061
103	5 Tauri f ...	+ 3.3018	+ 0.0130	+ 0.002	- 12.649	+ 0.379	+ 0.03	1087
104	... ..	+ 2.2321	+ 0.0020	...	- 12.284	+ 0.262	...	...
105	Lacaille 1159 ...	+ 1.1193	+ 0.0180	...	- 12.185	+ 0.135	...	...

73.—Proper motions from "Greenwich Catalogue 1864."

77.—84.—93.—102.—103.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
106	... ..	9.5	2	3	31	53.86	129	49	13.7	2	0.92
107	... ..	10.3	1	3	33	46.14	128	29	22.5	1	0.87
108	Lacaille 1192	7.9	1	3	35	4.22	147	43	1.2	1	0.00
109	Lacaille 1193	7.6	1	3	35	21.44	146	34	27.9	1	0.01
110	... ..	7.9	1	3	39	34.35	66	29	48.6	1	0.96
111	25 Tauri η (<i>Acyone</i>)	3.0	...	3	39	38.44	66	18	20.3	6	0.64
112	... ..	8.3	3	3	41	0.77	147	2	22.3	1	0.63
113	30 Tauri ϵ	5.1	...	3	41	2.05	79	15	55.2	1	0.98
114	Lacaille 1242	7.3	1	3	41	50.75	147	4	31.9	1	0.94
115	W. B. E. III. 860	8.0	2	3	45	32.33	76	0	53.0	2	0.00
116	... ..	9.3	1	3	49	57.63	129	11	30.7	1	0.94
117	34 Eridani γ^1	3.0	...	3	51	52.30	108	53	10.2	6	0.49
118	... ..	9.0	2	3	54	50.41	129	10	11.9	2	0.49
119	... ..	7.8	1	3	55	42.40	129	18	57.6	1	0.00
120	Taylor 1392	6.5	1	3	55	53.15	147	23	41.9	1	0.04
121	... ..	10.3	1	4	2	41.04	67	15	43.4	1	0.94
122	... ..	9.0	3	4	3	47.68	146	55	48.5	3	0.02
123	... ..	8.3	1	4	5	4.59	150	4	53.5	1	0.05
124	38 Eridani σ^1	4.1	...	4	5	25.37	97	11	3.3	5	0.77
125	... ..	7.7	2	4	11	51.74	129	12	33.7	3	0.65
126	... ..	9.3	3	4	12	37.18	129	10	11.5	3	0.33
127	Lacaille 1425	6.0	1	4	13	4.72	152	31	23.1	1	0.02
128	ϵ Reticuli	5.0	...	4	14	12.72	149	37	16.0	2	0.04
129	Taylor 1513	6.3	2	4	14	21.97	151	16	26.2	2	0.04
130	61 Tauri δ^1	4.0	...	4	15	19.55	72	46	10.9	1	0.98
131	... ..	9.8	2	4	15	23.02	129	7	15.9	2	0.49
132	74 Tauri ϵ	3.7	...	4	20	54.59	71	6	55.0	10	0.19
133	... ..	10.2	1	4	22	15.35	80	27	34.5	1	0.94
134	... ..	10.5	1	4	22	35.13	80	20	38.9	1	0.06
135	Taylor 1582	7.0	1	4	23	15.83	151	32	17.4	1	0.05
136	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	28	20.91	73	45	32.7	12	0.25
137	R Reticuli Var. 1	9.8	1	4	32	10.93	153	18	11.4	1	0.06
138	Lacaille 1551	5.5	1	4	32	11.93	153	5	45.7	1	0.06
139	... ..	9.0	1	4	33	43.82	67	31	35.9	1	0.94
140	Lacaille 1567	5.0	1	4	35	13.90	152	20	19.2	1	0.05

115.—Comparison star for Asia in 1862.

137.—R Reticuli Var. 1.—Period 231 days.—Range, 7th to below 13th magnitude.

138—140.—Stars observed for map of R Reticuli Var. 1.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
106	... ..	+ 2-1321	+ 0-0023	...	- 12-076	+ 0-259	...	...
107	... ..	+ 2-2181	+ 0-0022	...	- 11-946	+ 0-265	...	...
108	Lacaille 1192	+ 1-3652	+ 0-0120	...	- 11-854	+ 0-165	...	...
109	Lacaille 1193	+ 1-4368	+ 0-0105	...	- 11-834	+ 0-174	...	...
110	... ..	+ 3-5478	+ 0-0176	...	- 11-533	+ 0-428	...	...
111	25 Tauri η (<i>Aloyone</i>).	+ 3-5522	+ 0-0177	- 0-001	- 11-529	+ 0-430	+ 0-06	1166
112	... ..	+ 1-3779	+ 0-0114	...	- 11-430	+ 0-170	...	...
113	30 Tauri ϵ ...	+ 3-2804	+ 0-0115	0-000	- 11-429	+ 0-398	+ 0-05	1174
114	Lacaille 1242	+ 1-3713	+ 0-0114	...	- 11-370	+ 0-170	...	...
115	W. B. E. III. 860	+ 3-3493	+ 0-0127	...	- 11-100	+ 0-412	...	...
116	... ..	+ 2-1523	+ 0-0029	...	- 10-778	+ 0-270	...	...
117	34 Eridani γ^1	+ 2-7919	+ 0-0047	+ 0-002	- 10-638	+ 0-351	+ 0-12	1234
118	... ..	+ 2-1413	+ 0-0031	...	- 10-416	+ 0-271	...	...
119	... ..	+ 2-1343	+ 0-0031	...	- 10-351	+ 0-271	...	...
120	Taylor 1392	+ 1-2752	+ 0-0126	...	- 10-338	+ 0-164	...	1255
121	... ..	+ 3-5605	+ 0-0153	...	- 9-824	+ 0-457	...	...
122	... ..	+ 1-2781	+ 0-0290	...	- 9-739	+ 0-167	...	...
123	... ..	+ 1-0350	+ 0-0165	...	- 9-635	+ 0-136	...	...
124	38 Eridani α^1	+ 2-9242	+ 0-0058	- 0-002	- 9-614	+ 0-379	- 0-07	1290
125	... ..	+ 2-1004	+ 0-0035	...	- 9-116	+ 0-277	...	...
126	... ..	+ 2-1002	+ 0-0035	...	- 9-057	+ 0-277	...	...
127	Lacaille 1425	+ 0-7760	+ 0-0210	...	- 9-021	+ 0-105	...	...
128	ϵ Retioui	+ 1-0302	+ 0-0155	...	- 8-981	+ 0-139	...	1344
129	Taylor 1513	+ 0-8873	+ 0-0132	...	- 8-920	+ 0-120	...	1345
130	61 Tauri δ^1 ...	+ 3-4443	+ 0-0119	+ 0-004	- 8-845	+ 0-455	+ 0-03	1346
131	... ..	+ 2-0960	+ 0-0035	...	- 8-840	+ 0-279	...	...
132	74 Tauri ϵ ...	+ 3-4874	+ 0-0120	+ 0-005	- 8-404	+ 0-466	+ 0-03	1376
133	... ..	+ 3-2766	+ 0-0090	...	- 8-297	+ 0-439	...	...
134	... ..	+ 3-2794	+ 0-0090	...	- 8-270	+ 0-440	...	...
135	Taylor 1532	+ 0-8207	+ 0-0133	...	- 8-216	+ 0-113	...	1400
136	87 Tauri α (<i>Aldebaran</i>)	+ 3-4308	+ 0-0105	+ 0-004	- 7-808	+ 0-464	+ 0-17	1420
137	R Retioui Var. I	+ 0-6063	+ 0-0210	...	- 7-498	+ 0-085	...	...
138	Lacaille 1551	+ 0-6282	+ 0-0205	...	- 7-496	+ 0-088	...	...
139	... ..	+ 3-5365	+ 0-0122	...	- 7-365	+ 0-439	...	...
140	Lacaille 1567	+ 0-6939	+ 0-0136	...	- 7-250	+ 0-097	...	...

Mean Positions of Stars for 1863 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
141	...	9.3	1	4	36	34.21	64	18	46.2	1	0.05
142	...	8.3	2	4	39	27.29	142	24	46.2	2	0.05
143	...	9.3	2	4	39	27.77	153	3	12.8	2	0.08
144	...	9.0	3	4	40	54.92	127	43	55.0	3	0.63
145	...	8.8	3	4	43	59.78	127	39	58.3	3	0.04
146	...	9.0	1	4	45	58.20	153	3	38.6	1	0.06
147	Lacaille 1649	7.4	3	4	46	56.80	150	29	13.8	3	0.07
148	3 Aurigæ	2.7	...	4	48	23.99	57	2	45.5	6	0.05
149	Taylor 1764	6.2	2	4	50	29.74	129	50	33.5	2	0.03
150	...	10.6	1	4	51	39.33	82	8	13.9	1	0.06
151	...	9.5	1	4	52	44.08	150	37	28.4	1	0.95
152	...	8.0	1	4	53	52.10	153	0	20.7	1	0.10
153	Lacaille 1697	8.0	...	4	56	59.17	129	6	51.6	1	0.03
154	Taylor 1811	6.3	1	4	57	11.08	129	54	42.4	1	0.08
155	Taylor 1814	9.2	3	4	57	49.51	148	41	33.9	3	0.07
156	2 Leporis	3.3	...	4	59	52.42	112	33	1.7	7	0.06
157	...	9.0	1	5	1	46.57 ^{7.18}	151	35	43.0	1	0.06
158	Taylor 1852	6.8	2	5	2	15.05	144	35	11.3	2	0.51
159	Lacaille 1756	8.7	1	5	4	1.11	154	43	25.1	1	0.07
160	...	9.3	2	5	6	34.05	36	34	21.5	2	0.06
161	R Aurigæ Var. 2	8.3	2	5	6	38.88	36	33	58.1	2	0.06
162	19 Orionis β (Rigel)	0.3	...	5	8	11.66	98	21	23.6	4	0.05
163	...	9.5	1	5	8	32.77	150	36	3.2	1	0.05
164	...	9.2	3	5	10	40.01	121	19	19.0	4	0.06
165	...	9.8	1	5	11	3.93	129	43	13.3	1	0.06
166	...	9.8	1	5	13	49.90	75	11	30.5	1	0.07
167	...	8.7	1	5	14	52.26	153	29	3.5	1	0.06
168	...	9.5	3	5	15	3.72	121	18	22.0	3	0.07
169	Lacaille 1822	9.0	1	5	15	48.65	141	42	57.1	1	0.08
170	...	9.0	1	5	16	14.41	131	48	4.4	1	0.12
171	112 Tauri β	1.9	...	5	17	56.94	61	30	27.0	9	0.16
172	...	9.7	1	5	18	27.93	121	28	39.1	1	0.95
173	Taylor 1973...	...	...	5	19	2.74	129	48	10.5	1	0.09
174	...	9.0	1	5	19	8.61	148	14	3.3	1	0.98
175	R. P. L. 40	6.2	...	5	19	59.40	4	52	48.7	1	0.97

143.—Observed for map of R Reticuli Var. 1.

150.—Observed for map of R Orionis Var. 3.

160.—Observed for map of R Aurigæ Var. 2.

161.—R Aurigæ Var. 2.—Period 465 days.—Range, 7th to 12.7 magnitude.

166.—Comparison star for Asia in 1866.

175.—Groombridge 944.

47-18

[27.43]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
141	... ..	+ 3.6731	+ 0.0130	...	- 7.141	+ 0.503	...	...
142	... ..	+ 1.4413	+ 0.0076	...	- 6.904	+ 0.200	...	...
143	... ..	+ 0.6028	+ 0.0195	...	- 6.903	+ 0.085	..	...
144	... ..	+ 2.0986	+ 0.0036	...	- 6.784	+ 0.291	...	...
145	... ..	+ 2.0982	+ 0.0036	...	- 6.580	+ 0.292	...	...
146	... ..	+ 0.5775	+ 0.0186	...	- 6.367	+ 0.083	...	...
147	Lacaille 1649	+ 0.8292	+ 0.0143	...	- 6.285	+ 0.118	...	...
148	3 Aurigæ	+ 3.3968	+ 0.0144	- 0.003	- 6.164	+ 0.544	+ 0.02	1520
149	Taylor 1764	+ 2.0074	+ 0.0038	...	- 5.990	+ 0.282	...	1533
150	... ..	+ 3.2486	+ 0.0068	...	- 5.892	+ 0.456	...	...
151	... ..	+ 0.7986	+ 0.0139	...	- 5.802	+ 0.113	...	...
152	... ..	+ 0.5559	+ 0.0172	...	- 5.707	+ 0.080	...	...
153	Lacaille 1697	+ 2.0259	+ 0.0036	...	- 5.444	+ 0.236	...	...
154	Taylor 1811	+ 1.9956	+ 0.0038	...	- 5.428	+ 0.232	...	1561
155	Taylor 1814	+ 0.9542	+ 0.0111	...	- 5.375	+ 0.136	...	...
156	2 Leporis	+ 2.5359	+ 0.0033	+ 0.001	- 5.201	+ 0.359	+ 0.08	1575
157	... ..	+ 0.6791	+ 0.0138	...	- 5.039	+ 0.098	...	...
158	Taylor 1852	+ 1.2510	+ 0.0077	...	- 5.001	+ 0.179	...	1595
159	Lacaille 1756	+ 0.3248	+ 0.0183	...	- 4.851	+ 0.048	...	...
160	... ..	+ 4.8253	+ 0.0239	...	- 4.634	+ 0.687	...	...
161	R Aurigæ Var. 2	+ 4.8253	+ 0.0239	...	- 4.627	+ 0.687	...	...
162	19 Orionis β (<i>Rigel</i>)	+ 2.8806	+ 0.0040	- 0.001	- 4.495	+ 0.412	+ 0.02	1623
163	... ..	+ 0.7589	+ 0.0117	...	- 4.466	+ 0.110	...	...
164	... ..	+ 2.2772	+ 0.0030	...	- 4.284	+ 0.326	...	...
165	... ..	+ 1.9833	+ 0.0036	...	- 4.251	+ 0.235	...	...
166	... ..	+ 3.4185	+ 0.0063	...	- 4.013	+ 0.490	...	...
167	... ..	+ 0.4442	+ 0.0138	...	- 3.924	+ 0.065	...	...
168	... ..	+ 2.2745	+ 0.0030	...	- 3.908	+ 0.328	...	...
169	Lacaille 1822	+ 1.4096	+ 0.0057	...	- 3.843	+ 0.204	...	...
170	... ..	+ 1.8984	+ 0.0037	...	- 3.807	+ 0.274	...	...
171	112 Tauri β	+ 3.7856	+ 0.0082	+ 0.003	- 3.659	+ 0.545	+ 0.20	1631
172	... ..	+ 2.2668	+ 0.0030	...	- 3.616	+ 0.327	...	...
173	Taylor 1973	+ 1.9757	+ 0.0034	...	- 3.565	+ 0.286	...	1633
174	... ..	+ 0.9471	+ 0.0084	...	- 3.556	+ 0.138	...	...
175	R. P. L. 40	+ 18.4937	+ 0.6685	...	- 3.483	- 2.657	...	1682

Mean Positions of Stars for 1868 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>		
176	Lacaille 1854	8.0	1	5	21	45.29	137	12	39.0	1	0.07
177	... ..	10.2	2	5	21	57.81	59	40	47.0	2	0.07
178	... ..	8.5	1	5	22	37.30	152	41	53.0	1	0.06
179	84 Orionis δ Var. 1	2.4	...	5	25	15.81	90	23	58.7	7	0.19
180	... ..	9.8	...	5	25	36.24	155	51	7.2	1	0.05
181	... ..	9.5	2	5	26	14.61	121	24	12.5	2	0.06
182	11 Leporis α	2.7	...	5	26	54.54	107	55	8.9	5	0.09
183	Lalande 10532	7.8	1	5	29	22.94	78	15	1.6	1	0.09
184	46 Orionis ϵ	1.8	...	5	29	30.97	91	17	20.4	7	0.06
185	Lalande 10607	7.1	1	5	31	31.48	68	18	53.7	1	0.96
186	... ..	8.7	1	5	32	7.16	123	55	14.2	1	0.98
187	... ..	8.5	1	5	32	16.93	123	54	7.6	1	0.98
188	Taylor 2107	7.0	3	5	34	29.30	130	46	58.9	3	0.37
189	α Columbae	2.7	...	5	34	52.30	124	8	46.6	3	0.04
190	Taylor 2113	8.2	2	5	35	15.88	130	45	26.1	2	0.09
191	... ..	9.8	1	5	36	44.52	135	48	32.0	1	0.05
192	Lalande 10849	8.4	3	5	37	58.05	68	19	35.0	3	0.09
193	W. B. E. V. 1011	8.6	1	5	40	42.24	78	57	36.5	1	0.10
194	Lacaille 2010	7.5	2	5	42	5 ¹² .24	146	58	17.5	2	0.49
195	... ..	10.0	1	5	42	8.52	136	4	9.2	1	0.05
196	... ..	8.0	1	5	42	13.55	137	3	24.7	1	0.07
197	Taylor 2184	9.0	1	5	43	57.37	150	46	18.3	1	0.08
198	Lalande 11098	8.0	1	5	45	20.23	68	29	34.8	1	0.08
199	... ..	8.9	1	5	47	8.38	135	46	47.6	1	0.10
200	58 Orionis α Var. 2	0.9	...	5	48	1.56	82	37	12.9	4	0.09
201	... ..	9.6	1	5	49	43.63	63	50	8.8	1	0.06
202	Lalande 11293	7.6	1	5	51	44.07	68	24	33.5	1	0.10
203	... ..	9.8	1	5	52	21.08	141	46	1.9	1	0.07
204	... ..	8.0	2	5	53	24.44	131	7	12.6	2	0.09
205	... ..	9.3	1	5	53	47.54	121	32	33.4	1	0.10
206	Lacaille 2104	7.0	1	5	54	26.58	143	26	21.1	1	0.11
207	62 Orionis χ^4	4.8	...	5	56	4.74	69	51	42.0	1	0.92
208	... ..	9.0	1	5	56	17.60	129	57	12.2	1	0.12
209	... ..	9.2	1	5	57	6.14	136	1	1.4	1	0.10
210	67 Orionis ν	4.4	...	6	0	2.12	75	13	7.2	7	0.08

[8.12]

177.—Observed instead of Ansonia in 1864.

179.— δ Orionis Var. 1.—Supposed to vary irregularly from 2.3 to 2.7 magnitude.

183—193.—Comparison stars for Sappho in 1866.

185.—192.—198.—202.—Comparison stars for Harmonia in 1861.

200.— α Orionis Var. 2. (*Betelgeuse*.) Irregularly variable from 0.9 to 1.5 magnitude.

201.—Observed instead of Urania in 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
176	Lacaille 1854 ...	+ 1.6478	+ 0.0042	...	- 3.331	+ 0.238	...	...
177	... ..	+ 3.8433	+ 0.0081	...	- 3.313	+ 0.554	...	...
178	... ..	+ 0.5164	+ 0.0113	...	- 3.256	+ 0.075	...	...
179	34 Orionis δ Var. 1 ...	+ 3.0328	+ 0.0038	+ 0.001	- 3.028	+ 0.443	+ 0.04	1730
180	... ..	+ 0.1235	+ 0.0143	...	- 2.998	+ 0.019	...	...
181	... ..	+ 2.2646	+ 0.0028	...	- 2.944	+ 0.328	...	...
182	11 Leporis α ...	+ 2.6442	+ 0.0029	+ 0.001	- 2.886	+ 0.333	0.00	1741
183	Lalande 10532 ...	+ 3.3477	+ 0.0045	...	- 2.671	+ 0.485	...	...
184	46 Orionis ϵ ...	+ 3.0423	+ 0.0035	- 0.002	- 2.660	+ 0.441	+ 0.01	1765
185	Lalande 10607 ...	+ 3.5997	+ 0.0053	...	- 2.486	+ 0.522	...	...
186	... ..	+ 2.1796	+ 0.0029	...	- 2.433	+ 0.317	...	...
187	... ..	+ 2.1802	+ 0.0029	...	- 2.420	+ 0.317	...	...
188	Taylor 2107 ...	+ 1.9258	+ 0.0031	...	- 2.223	+ 0.280	...	1798
189	α Columbae ...	+ 2.1707	+ 0.0027	+ 0.008	- 2.195	+ 0.316	0.00	1802
190	Taylor 2113 ...	+ 1.9266	+ 0.0031	...	- 2.160	+ 0.280	...	...
191	... ..	+ 1.7039	+ 0.0035	...	- 2.082	+ 0.248	...	...
192	Lalande 10349 ...	+ 3.6010	+ 0.0046	...	- 1.925	+ 0.524	...	...
193	W. B. E. V. 1011 ...	+ 3.3321	+ 0.0034	...	- 1.686	+ 0.485	...	...
194	Lacaille 2010 ...	+ 1.0220	+ 0.0050	...	- 1.565	+ 0.150	...	...
195	... ..	+ 1.6884	+ 0.0033	...	- 1.561	+ 0.247	...	...
196	... ..	+ 1.6399	+ 0.0034	...	- 1.556	+ 0.239	...	...
197	Taylor 2184 ...	+ 0.6886	+ 0.0059	...	- 1.403	+ 0.101	...	...
198	Lalande 11098 ...	+ 3.5978	+ 0.0036	...	- 1.282	+ 0.525	...	...
199	... ..	+ 1.7004	+ 0.0030	...	- 1.125	+ 0.248	...	...
200	58 Orionis α Var. 2 ...	+ 3.2450	+ 0.0027	+ 0.001	- 1.047	+ 0.473	0.00	1883
201	... ..	+ 3.7283	+ 0.0031	...	- 0.898	+ 0.543	...	...
202	Lalande 11293 ...	+ 3.6008	+ 0.0028	...	- 0.723	+ 0.525	...	...
203	... ..	+ 1.3759	+ 0.0031	...	- 0.669	+ 0.201	...	...
204	... ..	+ 1.9055	+ 0.0026	...	- 0.576	+ 0.278	...	...
205	... ..	+ 2.2517	+ 0.0024	...	- 0.543	+ 0.328	...	...
206	Lacaille 2104 ...	+ 1.2698	+ 0.0030	...	- 0.486	+ 0.199	...	...
207	62 Orionis χ^4 ...	+ 3.5624	+ 0.0022	0.000	- 0.343	+ 0.519	+ 0.02	1939
208	... ..	+ 1.9523	+ 0.0025	...	- 0.325	+ 0.285	...	...
209	... ..	+ 1.6870	+ 0.0027	...	- 0.254	+ 0.246	...	...
210	67 Orionis ν ...	+ 3.4249	+ 0.0017	+ 0.001	+ 0.003	+ 0.500	+ 0.02	1958

Mean Positions of Stars for 1868 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>		
211	Taylor 2321	6.9	2	6	0	53.39	141	5	26.6	2	0.10
212	... ..	8.6	2	6	3	47.08	120	58	12.6	2	0.08
213	... ..	8.9	1	6	4	3.39	150	5	25.4	1	0.12
214	... ..	9.3	1	6	6	35.42	121	29	25.9	1	0.04
215	7 Geminorum η Var. 6 ...	8.5	...	6	6	54.50	67	27	20.7	2	0.09
216	... ..	9.2	1	6	8	36.19	155	3	32.8	1	0.13
217	... ..	9.8	1	6	10	8.29	153	14	27.4	1	0.08
218	... ..	9.0	1	6	11	52.50	121	31	32.6	1	0.04
219	Lalande 12053	8.0	2	6	12	38.50	68	51	21.0	2	0.11
220	Lalande 12075	8.1	2	6	13	28.20	68	44	33.3	2	0.09
221	Lalande 12094	8.0	1	6	13	49.25	63	42	5.0	1	0.09
222	13 Geminorum μ	3.2	...	6	14	58.44	67	25	19.1	11	0.08
223	Taylor 2474	6.5	1	6	18	18.06	121	43	26.7	1	0.05
224	Lacaille 2286	6.9	1	6	18	49.99	153	45	50.6	1	0.12
225	... ..	7.2	2	6	21	25.94	128	51	39.2	2	0.13
226	... ..	9.3	1	6	22	4.50	129	36	36.2	1	0.09
227	Lacaille 2321	7.0	1	6	23	31.27	153	20	55.3	1	0.10
228	Lacaille 2329	7.0	2	6	24	6.84	153	45	3.1	2	0.10
229	Taylor 2529	6.3	1	6	24	28.99	130	59	25.0	1	0.13
230	Taylor 2541	6.0	1	6	24	59.13	147	55	9.9	1	0.12
231	Lacaille 2348	7.0	1	6	26	34.21	152	3	52.2	1	0.10
232	... ..	9.0	1	6	27	32.70	152	28	5.0	1	0.04
233	... ..	9.0	1	6	27	36.62	128	46	7.9	1	0.14
234	... ..	7.0	1	6	28	31.52	122	7	40.9	1	0.14
235	... ..	8.5	1	6	28	42.04	151	10	12.5	1	0.17
236	... ..	9.0	1	6	28	46.28	130	32	17.6	1	0.13
237	24 Geminorum γ	2.0	...	6	30	5.14	73	29	28.6	9	0.19
238	... ..	8.8	1	6	30	50.08	130	55	21.8	1	0.02
239	... ..	9.2	1	6	31	10.00	122	6	54.5	1	0.14
240	... ..	9.7	1	6	32	3.28	81	7	8.8	1	0.05
241	Lacaille 2406	7.4	2	6	34	14.68	147	25	44.0	2	0.06
242	51 (Hev.) Cephei	5.3	...	6	37	40.17	2	45	30.9	9	0.17
243	... ..	9.7	1	6	37	40.19	153	25	44.6	1	0.15
244	... ..	9.5	2	6	37	55.85	153	20	51.7	2	0.52
245	Lacaille 2451	9.0	1	6	38	11.56	155	57	55.4	1	0.13

219.—220.—221.—Comparison stars for Ariadne in 1866.

215.— η Geminorum Var. 6.—Period 229 days.—Range, 3rd to 4th magnitude.

240.—Observed for map of R. Monocerotis Var. 1.

[58-13]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Seculár Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
211	Taylor 2321 ...	+ 1.4156	+ 0.0026	...	+ 0.078	+ 0.207	...	...
212	... ..	+ 1.9516	+ 0.0023	...	+ 0.332	+ 0.235	...	...
213	... ..	+ 0.7433	+ 0.0022	...	+ 0.355	+ 0.109	...	...
214	... ..	+ 2.2534	+ 0.0022	...	+ 0.576	+ 0.329	...	...
215	7 Geminorum η Var. 6	+ 3.6268	+ 0.0007	- 0.007	+ 0.605	+ 0.529	+ 0.02	2002
216	... ..	+ 0.1993	+ 0.0005	...	+ 0.752	+ 0.029	...	...
217	... ..	+ 0.4232	+ 0.0006	...	+ 0.886	+ 0.062	...	...
218	... ..	+ 2.2531	+ 0.0021	...	+ 1.038	+ 0.328	...	...
219	Lalande 12053	+ 3.5884	+ 0.0002	...	+ 1.105	+ 0.523	...	...
220	Lalande 12075	+ 3.5912	0.0000	...	+ 1.179	+ 0.522	...	...
221	Lalande 12094	+ 3.5924	0.0000	...	+ 1.202	+ 0.522	...	...
222	13 Geminorum μ	+ 3.6268	- 0.0003	+ 0.005	+ 1.309	+ 0.527	+ 0.14	2047
223	Taylor 2474 ...	+ 2.2482	+ 0.0020	...	+ 1.599	+ 0.326	...	2073
224	Lacaille 2236	+ 0.3685	- 0.0017	...	+ 1.646	+ 0.053	...	2078
225	... ..	+ 1.9996	+ 0.0019	...	+ 1.873	+ 0.289	...	...
226	... ..	+ 1.9708	+ 0.0018	...	+ 1.929	+ 0.285	...	...
227	Lacaille 2321	+ 0.4222	- 0.0028	...	+ 2.055	+ 0.060	...	...
228	Lacaille 2320	+ 0.3759	- 0.0031	...	+ 2.106	+ 0.054	...	2121
229	Taylor 2529 ...	+ 1.9169	+ 0.0017	...	+ 2.138	+ 0.277	...	2117
230	Taylor 2541 ...	+ 0.9520	- 0.0006	...	+ 2.181	+ 0.137	...	2124
231	Lacaille 2348	+ 0.5677	- 0.0026	...	+ 2.319	+ 0.081	...	2142
232	... ..	+ 0.5259	- 0.0030	...	+ 2.405	+ 0.075	...	...
233	... ..	+ 2.0062	+ 0.0018	...	+ 2.410	+ 0.290	...	...
234	... ..	+ 2.2390	+ 0.0018	...	+ 2.400	+ 0.323	...	...
235	... ..	+ 0.6623	- 0.0025	...	+ 2.505	+ 0.005	...	...
236	... ..	+ 1.9377	+ 0.0016	...	+ 2.511	+ 0.280	...	...
237	24 Geminorum γ	+ 3.4640	- 0.0015	+ 0.001	+ 2.625	+ 0.500	+ 0.04	2163
238	... ..	+ 1.9236	+ 0.0016	...	+ 2.689	+ 0.277	...	...
239	... ..	+ 2.2407	+ 0.0018	...	+ 2.719	+ 0.323	...	...
240	... ..	+ 3.2790	- 0.0008	...	+ 2.706	+ 0.472	...	...
241	Lacaille 2406	+ 1.0024	- 0.0015	...	+ 2.985	+ 0.144	...	...
242	51 (Hev.) Cephei	+ 30.4437	- 1.9228	- 0.027	+ 3.282	+ 4.379	+ 0.08	2157
243	... ..	+ 0.4348	- 0.0061	...	+ 3.282	+ 0.061	...	...
244	... ..	+ 0.4448	- 0.0061	...	+ 3.303	+ 0.063	...	...
245	Lacaille 2451	+ 0.1156	- 0.0092	...	+ 3.326	+ 0.016	...	...

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

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
246	Taylor 2667	8.5	2	6	38	26.54	148	59	53.4	2	0.10
247	" " " " " " " "	8.9	1	6	39	15.60	131	3	39.4	1	0.14
248	9 Canis Majoris α (<i>Sirius</i> .)	-1.4	...	6	39	19.55	106	32	16.5	1	0.14
249	" " " " " " " "	9.4	1	6	40	30.97	154	13	45.6	1	0.08
250	" " " " " " " "	8.7	1	6	40	37.25	131	1	40.4	1	0.12
251	" " " " " " " "	8.6	1	6	42	31.35	130	57	13.1	1	0.10
252	" " " " " " " "	8.0	1	6	42	44.95	130	36	37.0	1	0.10
253	" " " " " " " "	9.2	1	6	42	44.95	130	58	20.0	1	0.18
254	" " " " " " " "	8.0	1	6	43	49.03	123	30	40.6	1	0.09
255	" " " " " " " "	9.1	2	6	44	35.84	148	30	38.3	2	0.08
256	" " " " " " " "	9.2	1	6	44	57.53	123	30	43.3	1	0.05
257	Lalande 13279	8.2	1	6	46	39.82	65	35	22.7	1	0.14
258	" " " " " " " "	9.7	1	6	46	40.87	130	10	23.8	1	0.14
259	Lacaille 2500	8.0	1	6	47	7.67	130	23	36.0	1	0.06
260	Lalande 13313	7.8	2	6	47	34.84	65	49	41.1	2	0.08
261	Lacaille 2532	6.0	1	6	48	16.13	150	5	40.7	1	0.12
262	" " " " " " " "	9.1	2	6	48	37.13	128	48	40.9	2	0.14
263	" " " " " " " "	9.2	1	6	49	2.55	128	46	18.0	1	0.13
264	" " " " " " " "	9.5	2	6	49	51.15	129	8	33.7	2	0.15
265	" " " " " " " "	10.5	1	6	50	39.20	75	17	44.8	1	0.08
266	" " " " " " " "	8.4	3	6	51	35.73	131	8	59.6	3	0.08
267	21 Canis Majoris ϵ	1.5	...	6	53	26.23	118	47	40.1	4	0.09
268	" " " " " " " "	8.3	1	6	55	43.57	129	38	13.8	1	0.14
269	43 Geminorum 5^a Var. 1.	4.0	...	6	56	16.65	69	14	21.3	4	0.29
270	" " " " " " " "	8.9	2	6	57	17.94	69	5	13.0	2	0.13
271	23 Canis Majoris γ	4.1	...	6	57	47.21	105	26	26.1	7	0.11
272	" " " " " " " "	9.7	1	6	58	37.72	66	56	23.8	1	0.13
273	R Geminorum Var. 2	7.9	1	6	59	24.58	67	5	45.0	1	0.17
274	" " " " " " " "	9.3	1	6	59	26.03	67	0	13.8	1	0.14
275	" " " " " " " "	9.0	2	6	59	57.20	129	43	25.0	2	0.12
276	" " " " " " " "	8.6	1	7	0	47.03	60	50	26.2	1	0.01
277	" " " " " " " "	7.8	2	7	1	6.04	140	10	26.5	2	0.11
278	" " " " " " " "	8.3	1	7	1	37.89	129	39	33.1	1	0.08
279	Taylor 2832	8.6	1	7	3	30.11	151	1	24.9	1	0.12
280	" " " " " " " "	9.0	1	7	3	31.62	130	14	50.6	1	0.14

257.—260.—Comparison stars for Isis in 1861.

265.—Observed as Pomona in 1864.

269.—3 Geminorum Var. 1.—Period 10.16 days.—Range, 3.7 to 4.5 magnitude.

272.—274.—Observed for map of R Geminorum Var. 2.

273.—R Geminorum Var. 2.—Period 371 days.—Range, 7th magnitude to invisibility.

276.—Comparison star for Isis in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
246	Taylor 2667 ...	+ 0.8784	- 0.0029	...	+ 3.348	+ 0.125	...	...
247	... ..	+ 1.9244	+ 0.0014	...	+ 3.418	+ 0.276	...	...
248	9 Canis Maj. α (<i>Sirius</i>)	+ 2.6808	+ 0.0010	- 0.035	+ 3.424	+ 0.384	+ 1.24	2213
249	... ..	+ 0.3461	- 0.0076	...	+ 3.526	+ 0.048	...	...
250	... ..	+ 1.9270	+ 0.0013	...	+ 3.535	+ 0.275	...	...
251	... ..	+ 1.9317	+ 0.0013	...	+ 3.700	+ 0.275	...	...
252	... ..	+ 1.9457	+ 0.0013	...	+ 3.719	+ 0.277	...	...
253	... ..	+ 1.9312	+ 0.0013	...	+ 3.719	+ 0.275	...	...
254	... ..	+ 2.0277	+ 0.0013	...	+ 3.810	+ 0.288	...	...
255	... ..	+ 0.9307	- 0.0033	...	+ 3.877	+ 0.131	...	...
256	... ..	+ 2.0286	+ 0.0014	...	+ 3.909	+ 0.288	...	...
257	Lalande 13279	+ 3.6663	- 0.0048	...	+ 4.056	+ 0.522	...	...
258	... ..	+ 1.9667	+ 0.0013	...	+ 4.056	+ 0.279	...	...
259	Lacaille 2500	+ 1.9585	+ 0.0012	...	+ 4.095	+ 0.278	...	...
260	Lalande 13313	+ 3.6593	- 0.0048	...	+ 4.133	+ 0.521	...	...
261	Lacaille 2532	+ 0.7987	- 0.0050	...	+ 4.192	+ 0.112	...	...
262	... ..	+ 2.0208	+ 0.0013	...	+ 4.233	+ 0.286	...	...
263	... ..	+ 2.0227	+ 0.0013	...	+ 4.259	+ 0.286	...	...
264	... ..	+ 2.0095	+ 0.0013	...	+ 4.328	+ 0.284	...	...
265	... ..	+ 3.4145	- 0.0031	...	+ 4.398	+ 0.484	...	...
266	... ..	+ 1.9332	+ 0.0011	...	+ 4.477	+ 0.273	...	...
267	21 Canis Majoris ϵ ...	+ 2.3571	+ 0.0013	0.000	+ 4.634	+ 0.332	+ 0.02	2293
268	... ..	+ 1.9972	+ 0.0012	...	+ 4.828	+ 0.281	...	...
269	43 Gem. 3 ^a Var. 1 ...	+ 3.5638	- 0.0050	- 0.001	+ 4.875	+ 0.503	+ 0.01	2305
270	... ..	+ 3.5671	- 0.0052	...	+ 4.962	+ 0.502	...	...
271	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	+ 0.002	+ 5.003	+ 0.331	+ 0.01	2310
272	... ..	+ 3.6227	- 0.0058	...	+ 5.074	+ 0.509	...	...
273	R Geminorum Var. 2.	+ 3.6181	- 0.0059	...	+ 5.140	+ 0.508	...	...
274	... ..	+ 3.6206	- 0.0059	...	+ 5.143	+ 0.509	...	...
275	... ..	+ 1.9991	+ 0.0011	...	+ 5.187	+ 0.280	...	...
276	... ..	+ 3.7920	- 0.0081	...	+ 5.257	+ 0.532	...	...
277	... ..	+ 1.5256	- 0.0007	...	+ 5.283	+ 0.213	...	...
278	... ..	+ 2.0036	+ 0.0011	...	+ 5.328	+ 0.280	...	...
279	Taylor 2882 ...	+ 0.7499	- 0.0090	...	+ 5.435	+ 0.103	...	...
280	... ..	+ 1.9336	+ 0.0010	...	+ 5.438	+ 0.276	...	...

Mean Positions of Stars for 1868 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>		
281	... ..	9.5	1	7	5	4.70	153	52	29.6	1	0.13
282	... ..	9.3	1	7	5	6.00	130	42	54.9	1	0.13
283	... ..	9.8	1	7	5	53.79	60	53	54.2	1	0.14
284	Taylor 2899	8.0	1	7	5	55.69	130	9	11.7	1	0.12
285	... ..	9.3	1	7	6	0.25	129	28	39.6	1	0.13
286	Lacaille 2678	9.0	1	7	6	15.15	148	9	36.7	1	0.15
287	... ..	7.2	1	7	6	46.71	129	3	8.7	1	0.10
288	Taylor 2923	8.5	1	7	7	19.86	150	21	44.2	1	0.15
289	... ..	9.0	1	7	8	3.31	148	46	25.3	1	0.16
290	Lacaille 2696	7.6	2	7	9	23.31	140	59	15.7	2	0.13
291	... ..	9.7	1	7	9	54.30	130	18	57.7	1	0.16
292	54 Geminorum λ	3.6	...	7	10	30.32	73	13	27.8	1	0.10
293	55 Geminorum δ	3.6	...	7	12	14.23	67	46	39.7	14	0.18
294	... ..	8.5	2	7	12	38.64	152	48	20.3	2	0.11
295	... ..	9.0	1	7	13	9.55	129	16	26.3	1	0.14
296	Taylor 3005	7.7	3	7	15	32.94	149	1	20.9	4	0.12
297	... ..	9.4	1	7	18	12.09	129	43	0.0	1	0.12
298	... ..	10.0	1	7	19	0.68	69	15	54.7	1	0.04
299	Lacaille 2907	7.5	2	7	19	38.48	142	15	50.9	2	0.13
300	... ..	9.2	2	7	19	44.66	123	8	27.8	2	0.15
301	Taylor 3054	7.9	2	7	20	5.29	151	41	54.9	2	0.12
302	6 Canis Minoris	5.0	...	7	22	26.85	77	43	23.0	1	0.13
303	... ..	10.5	1	7	23	45.17	41	55	8.5	1	0.15
304	... ..	10.1	3	7	23	50.49	42	1	16.5	3	0.15
305	... ..	8.6	3	7	24	2.05	129	10	35.8	3	0.08
306	... ..	9.5	2	7	24	12.17	152	47	42.3	2	0.13
307	... ..	9.3	2	7	24	52.32	130	10	1.9	2	0.14
308	... ..	9.3	2	7	24	55.78	121	0	49.6	2	0.11
309	... ..	8.7	1	7	25	7.57	123	8	47.5	1	0.15
310	66 Geminorum α^2 (Castor)	1.6	...	7	26	10.46	57	49	30.7	5	0.10
311	... ..	9.5	1	7	26	45.44	129	45	29.6	1	0.16
312	... ..	9.7	1	7	30	42.15	158	42	51.9	1	0.16
313	... ..	8.0	1	7	30	43.96	121	54	58.5	1	0.12
314	10 Canis Min. α (Procyon)	0.5	...	7	32	23.39	84	46	21.5	9	0.15
315	... ..	7.2	3	7	32	23.12	129	53	47.4	3	0.11

284.—Comparison star for Isis in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. O.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
281	... ..	+ 0.4551	- 0.0125	...	+ 5.618	+ 0.062	...	...
282	... ..	+ 1.9676	+ 0.0009	...	+ 5.620	+ 0.274	...	...
283	... ..	+ 3.7857	- 0.0088	...	+ 5.688	+ 0.528	...	...
284	Taylor 2899 ...	+ 1.9905	+ 0.0010	...	+ 5.690	+ 0.277	...	...
285	... ..	+ 2.0194	+ 0.0011	...	+ 5.696	+ 0.280	...	...
286	Lacaille 2678 ...	+ 1.0084	- 0.0055	...	+ 5.716	+ 0.139	...	...
287	... ..	+ 2.0332	+ 0.0011	...	+ 5.762	+ 0.282	...	...
288	Taylor 2923 ...	+ 0.8230	- 0.0077	...	+ 5.807	+ 0.113	...	...
289	... ..	+ 0.9033	- 0.0074	...	+ 5.868	+ 0.182	...	...
290	Lacaille 2696 ...	+ 1.4971	- 0.0013	...	+ 5.986	+ 0.205	...	...
291	... ..	+ 1.9900	+ 0.0009	...	+ 6.022	+ 0.274	...	...
292	54 Geminorum λ ...	+ 3.4563	- 0.0055	- 0.002	+ 6.073	+ 0.478	+ 0.04	2398
293	55 Geminorum δ ...	+ 3.5914	- 0.0072	0.000.	+ 6.217	+ 0.495	+ 0.02	2410
294	... ..	+ 0.5096	- 0.0119	...	+ 6.250	+ 0.080	...	...
295	... ..	+ 2.0341	+ 0.0009	...	+ 6.294	+ 0.279	...	...
296	Taylor 3005 ...	+ 0.9650	- 0.0071	...	+ 6.492	+ 0.130	...	...
297	... ..	+ 2.0255	+ 0.0010	...	+ 6.711	+ 0.275	...	...
298	... ..	+ 3.5485	- 0.0074	...	+ 6.778	+ 0.484	...	...
299	Lacaille 2807 ...	+ 1.4479	- 0.0023	...	+ 6.829	+ 0.196	...	...
300	... ..	+ 2.2516	+ 0.0013	...	+ 6.838	+ 0.306	...	...
301	Taylor 3054 ...	+ 0.7394	- 0.0111	...	+ 6.868	+ 0.098	...	...
302	6 Canis Minoris ...	+ 3.3444	- 0.0052	+ 0.004	+ 7.060	+ 0.453	0.00	2473
303	... ..	+ 4.4627	- 0.0257	...	+ 7.167	+ 0.605	...	...
304	... ..	+ 4.4577	- 0.0256	...	+ 7.174	+ 0.605	...	...
305	... ..	+ 2.0551	+ 0.0000	...	+ 7.189	+ 0.277	...	...
306	... ..	+ 0.6448	- 0.0135	...	+ 7.204	+ 0.085	...	...
307	... ..	+ 2.0201	+ 0.0009	...	+ 7.258	+ 0.272	...	...
308	... ..	+ 2.3229	+ 0.0011	...	+ 7.263	+ 0.313	...	...
309	... ..	+ 2.2585	+ 0.0011	...	+ 7.279	+ 0.304	...	...
310	66 Gem. α^2 (Castor) ...	+ 3.8544	- 0.0133	- 0.013	+ 7.365	+ 0.519	+ 0.08	2485
311	... ..	+ 2.0386	+ 0.0009	...	+ 7.411	+ 0.273	...	...
312	... ..	- 0.0942	- 0.0309	...	+ 7.732	- 0.016	...	...
313	... ..	+ 2.3038	+ 0.0012	...	+ 7.734	+ 0.307	...	...
314	10 Canis Minoris α ...	+ 3.1918	- 0.0041	- 0.048	+ 7.867	+ 0.425	+ 1.08	2522
315	... ..	+ 2.0441	+ 0.0008	...	+ 7.874	+ 0.271	...	...

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

303.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1868 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>		
316	... ..	9.5	1	7	33	8.41	153	12	10.2	1	0.04
317	Lacaille 2910	7.4	3	7	33	23.07	143	53	28.8	3	0.09
318	... ..	10.0	1	7	34	18.19	68	9	26.9	1	0.14
319	... ..	8.1	1	7	35	22.81	153	0	7.6	1	0.10
320	... ..	10.2	1	7	35	24.41	66	16	28.5	1	0.15
321	... ..	7.5	1	7	36	55.75	130	51	27.2	1	0.18
322	78 Geminorum β (<i>Pollux</i>)	1.1	...	7	37	14.12	61	39	23.7	9	0.15
323	... ..	9.0	1	7	37	41.65	130	58	39.0	1	0.08
324	Lacaille 2971	7.4	2	7	40	24.12	143	55	32.1	2	0.11
325	... ..	8.6	1	7	40	59.28	153	10	14.4	1	0.17
326	... ..	8.8	1	7	41	46.92	148	8	53.6	1	0.15
327	... ..	9.4	2	7	42	6.95	153	4	55.2	2	0.15
328	Lacaille 3034	8.9	1	7	44	7.34	153	52	14.7	1	0.13
329	... ..	7.8	2	7	46	11.76	132	30	40.4	2	0.08
330	Taylor 3293	7.6	3	7	46	36.98	144	44	42.5	4	0.14
331	Taylor 3310	7.0	1	7	48	37.20	149	18	30.1	1	0.15
332	... ..	9.7	1	7	48	42.74	67	46	43.2	1	0.16
333	... ..	9.0	1	7	48	51.00	129	55	26.3	1	0.14
334	... ..	7.0	1	7	49	32.76	152	35	32.0	1	0.20
335	... ..	8.6	2	7	49	50.28	130	30	46.0	2	0.18
336	Taylor 3323	7.9	1	7	49	52.36	140	16	19.0	1	0.17
337	W. B. N. VIII. 1473	7.5	2	7	53	45.86	64	33	0.1	2	0.14
338	6 Cancri	5.0	...	7	55	24.42	61	50	18.8	4	0.15
339	Taylor 3380	7.7	2	7	55	53.74	144	11	12.0	2	0.18
340	10 Cancri μ^3	5.2	...	7	59	59.69	68	2	15.3	3	0.07
341	... ..	10.5	...	8	0	22.78	78	23	30.5	1	0.16
342	15 Argus	2.9	...	8	1	55.36	113	55	32.6	12	0.15
343	... ..	9.5	2	8	4	35.63	154	41	13.8	2	0.21
344	16 Cancri 3	5.4	...	8	4	33.37	71	57	24.6	3	0.12
345	... ..	8.3	2	8	5	27.68	130	46	5.4	2	0.10
346	... ..	10.0	1	8	5	33.50	77	38	14.0	1	0.16
347	... ..	9.9	1	8	8	32.98	77	27	13.8	1	0.16
348	... ..	9.3	1	8	9	20.38	77	28	11.4	1	0.22
349	... ..	9.0	1	8	9	37.35	74	16	43.4	1	0.17
350	W. B. E. VIII. 220	8.8	2	8	9	39.77	99	22	25.2	2	0.13

320.—Observed for map of S Geminorum Var. 3.

332.—Observed for map of U Geminorum Var. 5.

349.—Comparison star for Ariadne in 1863.

350.—Comparison star for Phoebe in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
316	Lacaille 2910 ...	+ 0.6406	- 0.0153	...	+ 7.927	+ 0.088	...	...
317	... ..	+ 1.3894	- 0.0087	...	+ 7.947	+ 0.188	...	...
318	... ..	+ 3.5633	- 0.0094	...	+ 8.021	+ 0.473	...	...
319	... ..	+ 0.6719	- 0.0152	...	+ 8.107	+ 0.087	...	...
320	... ..	+ 3.0095	- 0.0131	...	+ 8.109	+ 0.479	...	...
321	... ..	+ 2.0176	+ 0.0009	...	+ 8.231	+ 0.264	...	...
322	78 Gem. β (<i>Pollux</i>) ...	+ 3.7293	- 0.0128	- 0.049	+ 8.256	+ 0.491	+ 0.06	2555
323	... ..	+ 2.0148	+ 0.0008	...	+ 8.292	+ 0.264	...	...
324	Lacaille 2971 ...	+ 1.4103	- 0.0038	...	+ 8.508	+ 0.182	...	...
325	... ..	+ 0.6812	- 0.0161	...	+ 8.554	+ 0.086	...	...
326	... ..	+ 1.1287	- 0.0078	...	+ 8.617	+ 0.145	...	...
327	... ..	+ 0.6959	- 0.0161	...	+ 8.643	+ 0.088	...	...
328	Lacaille 3034 ...	+ 0.6230	- 0.0180	...	+ 8.800	+ 0.078	...	...
329	... ..	+ 1.0757	+ 0.0007	...	+ 8.964	+ 0.254	...	...
330	Lacaille 3203 ...	+ 1.3818	- 0.0045	...	+ 8.997	+ 0.176	...	...
331	Taylor 3310 ...	+ 1.0680	- 0.0095	...	+ 9.153	+ 0.135	...	...
332	... ..	+ 3.5581	- 0.0109	...	+ 9.160	+ 0.458	...	...
333	... ..	+ 2.0771	+ 0.0010	...	+ 9.171	+ 0.266	...	...
334	... ..	+ 0.7825	- 0.0153	...	+ 9.225	+ 0.098	...	...
335	... ..	+ 2.0584	+ 0.0010	...	+ 9.248	+ 0.262	...	...
336	Taylor 3323 ...	+ 1.0764	- 0.0095	...	+ 9.250	+ 0.135	...	...
337	W. B. N. VII. 1473...	+ 3.6316	- 0.0130	...	+ 9.552	+ 0.462	...	...
338	6 Cancri ...	+ 3.6989	- 0.0148	- 0.005	+ 9.677	+ 0.468	+ 0.07	2672
339	Taylor 3380 ...	+ 1.4512	- 0.0040	...	+ 9.711	+ 0.181	...	...
340	10 Cancri μ^a ...	+ 3.5389	- 0.0117	+ 0.003	+ 10.027	+ 0.443	+ 0.07	2714
341	... ..	+ 3.3076	- 0.0074	...	+ 10.056	+ 0.413	...	...
342	15 Argus ...	+ 2.5608	+ 0.0009	- 0.007	+ 10.173	+ 0.318	+ 0.06	2728
343	... ..	+ 0.6528	- 0.0217	...	+ 10.373	+ 0.078	...	...
344	10 Cancri 5 ...	+ 3.4449	- 0.0103	+ 0.004	+ 10.376	+ 0.426	+ 0.11	2744
345	... ..	+ 2.0878	+ 0.0013	...	+ 10.439	+ 0.256	...	...
346	... ..	+ 3.3195	- 0.0080	...	+ 10.445	+ 0.410	...	...
347	... ..	+ 3.3241	- 0.0081	...	+ 10.668	+ 0.406	...	...
348	... ..	+ 3.3233	- 0.0082	...	+ 10.727	+ 0.405	...	...
349	... ..	+ 3.3399	- 0.0095	...	+ 10.748	+ 0.413	...	...
350	W. B. E. VIII. 220...	+ 2.8855	- 0.0015	...	+ 10.751	+ 0.350	...	...

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
351	...	9.7	1	8	10	10.37	150	47	24.8	1	0.15
352	...	9.6	1	8	10	23.49	150	33	21.1	1	0.21
353	...	9.0	1	8	11	26.05	152	5	14.9	1	0.18
354	...	8.9	2	8	11	54.29	152	2	1.5	2	0.16
355	...	9.2	1	8	13	29.00	131	41	57.3	1	0.20
356	...	9.3	2	8	13	50.34	133	18	3.1	2	0.16
357	...	9.6	2	8	14	33.98	154	5	50.7	2	0.18
358	...	8.0	1	8	14	56.97	142	17	40.0	1	0.09
359	W. B. E. VIII. 383	8.3	1	8	15	38.43	100	19	49.0	1	0.08
360	...	9.4	2	8	16	39.06	77	32	31.7	2	0.18
361	...	8.8	2	8	17	30.15	141	16	38.3	2	0.18
362	...	9.9	2	8	18	2.22	154	23	27.6	2	0.17
363	...	10.0	2	8	18	49.13	70	2	41.7	2	0.19
364	...	9.5	1	8	18	51.16	151	1	28.2	1	0.21
365	Taylor 3599	7.0	1	8	20	23.03	144	53	32.2	1	0.17
366	...	8.1	2	8	21	7.97	153	18	53.4	2	0.22
367	Taylor 3607	6.6	1	8	21	21.43	144	56	9.8	1	0.18
368	...	7.4	1	8	23	26.17	144	55	41.5	1	0.09
369	...	7.1	1	8	23	37.11	144	53	53.4	1	0.10
370	33 Cancri η	5.5	...	8	25	4.31	69	6	46.0	16	0.15
371	Lacaille 3393	7.1	1	8	26	1.86	149	40	56.2	1	0.12
372	...	7.2	1	8	26	13.08	144	58	34.5	1	0.13
373	...	9.3	1	8	26	34.32	130	31	19.0	1	0.21
374	Lalande 16890	8.8	1	8	28	54.96	73	13	39.2	1	0.12
375	...	9.3	1	8	29	1.25	70	41	29.2	1	0.22
376	W. B. N. VIII. 684	8.9	1	8	29	14.71	70	39	43.3	1	0.21
377	Lacaille 3475	8.9	2	8	34	53.33	152	23	25.1	2	0.18
378	...	9.9	1	8	35	58.73	81	28	32.2	1	0.17
379	Lacaille 3491	7.5	1	8	36	5.80	152	22	42.3	1	0.23
380	Taylor 3767	7.0	1	8	36	25.06	149	51	5.9	1	0.09
381	...	9.3	3	8	36	55.36	81	29	24.1	4	0.21
382	...	9.3	3	8	36	55.43	81	34	59.3	3	0.17
383	47 Cancri δ	4.3	...	8	37	11.01	71	21	45.7	3	0.20
384	...	8.4	4	8	37	24.67	81	26	46.2	4	0.22
385	W. B. N. VIII. 991	9.1	2	8	39	4.26	81	43	2.4	2	0.19

359.—Comparison star for Phoebe in 1867.

363.—Observed in mistake for Angelina in 1865.

374.—Comparison star for Freia in 1864.

375.—376.—Observed for map of U Cancri Var. 4.

381.—382.—384.—385.—Comparison stars for Melete in 1868.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
351	... ..	+ 1.0563	- 0.0120	...	+ 10.788	+ 0.125	...	...
352	... ..	+ 1.0768	- 0.0116	...	+ 10.804	+ 0.127	...	...
353	... ..	+ 0.9522	- 0.0147	...	+ 10.881	+ 0.112	...	...
354	... ..	+ 0.9598	- 0.0146	...	+ 10.916	+ 0.112	...	...
355	... ..	+ 2.0773	+ 0.0015	...	+ 11.031	+ 0.248	...	...
356	... ..	+ 2.0209	+ 0.0013	...	+ 11.057	+ 0.241	...	...
357	... ..	+ 0.7802	- 0.0198	...	+ 11.110	+ 0.090	...	...
358	... ..	+ 1.6399	- 0.0021	...	+ 11.138	+ 0.193	...	...
359	W. B. E. VIII. 383.	+ 2.8699	- 0.0014	...	+ 11.188	+ 0.343	...	...
360	... ..	+ 3.3165	- 0.0085	...	+ 11.262	+ 0.395	...	...
361	... ..	+ 1.6960	- 0.0014	...	+ 11.323	+ 0.199	...	...
362	... ..	+ 0.7736	- 0.0207	...	+ 11.362	+ 0.088	...	...
363	... ..	+ 3.4712	- 0.0122	...	+ 11.418	+ 0.412	...	...
364	... ..	+ 1.0874	- 0.0122	...	+ 11.421	+ 0.126	...	...
365	Taylor 3599 ...	+ 1.5161	- 0.0089	...	+ 11.530	+ 0.176	...	...
366	... ..	+ 0.9007	- 0.0175	...	+ 11.584	+ 0.102	...	...
367	Taylor 3607 ...	+ 1.5182	- 0.0088	...	+ 11.600	+ 0.176	...	...
368	... ..	+ 1.5237	- 0.0037	...	+ 11.748	+ 0.176	...	...
369	... ..	+ 1.5314	- 0.0037	...	+ 11.761	+ 0.176	...	...
370	33 Cancri γ ...	+ 3.4834	- 0.0129	- 0.005	+ 11.864	+ 0.404	+ 0.06	2862
371	Lacaille 3393 ...	+ 1.2344	- 0.0095	...	+ 11.981	+ 0.140	...	...
372	... ..	+ 1.5396	- 0.0086	...	+ 11.944	+ 0.175	...	...
373	... ..	+ 2.1552	+ 0.0022	...	+ 11.969	+ 0.247	...	...
374	Lalande 16890 ...	+ 3.3930	- 0.0110	...	+ 12.134	+ 0.389	...	...
375	... ..	+ 3.4450	- 0.0124	...	+ 12.141	+ 0.395	...	...
376	W. B. N. VIII. 684.	+ 3.4453	- 0.0124	...	+ 12.157	+ 0.395	...	...
377	Lacaille 3475 ...	+ 1.0783	- 0.0142	...	+ 12.550	+ 0.118	...	2939
378	... ..	+ 3.2278	- 0.0077	...	+ 12.620	+ 0.360	...	...
379	Lacaille 3491 ...	+ 1.0872	- 0.0141	...	+ 12.628	+ 0.118	...	2949
380	Taylor 3767 ...	+ 1.2853	- 0.0089	...	+ 12.649	+ 0.141	...	...
381	... ..	+ 3.2271	- 0.0077	...	+ 12.684	+ 0.359	...	...
382	... ..	+ 3.2253	- 0.0076	...	+ 12.684	+ 0.359	...	...
383	47 Cancri δ ...	+ 3.4211	- 0.0125	- 0.002	+ 12.701	+ 0.382	+ 0.24	2953
384	... ..	+ 3.2276	- 0.0077	...	+ 12.717	+ 0.359	...	...
385	W. B. E. VIII. 991.	+ 3.2217	- 0.0076	...	+ 12.829	+ 0.355	...	...

Mean Positions of Stars for 1868 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>		
386	11 Hydræ ϵ	8.6	...	8	39	47.11	83	5	56.4	5	0.14
387	W. B. E. VIII 1023	7.6	3	8	40	11.28	81	54	28.1	3	0.20
388	Lacaille 3534	7.7	1	8	42	26.20	129	18	59.5	1	0.18
389	... ..	9.1	2	8	43	3.77	136	11	21.7	2	0.23
390	... ..	8.0	1	8	47	1.75	136	2	48.4	1	0.21
391	... ..	8.0	1	8	47	48.59	132	56	47.9	1	0.18
392	... ..	9.4	1	8	49	17.18	133	28	22.5	1	0.23
393	... ..	10.3	2	8	50	58.25	98	45	9.2	2	0.23
394	W. B. E. VIII 1302	9.0	2	8	51	0.98	98	54	42.1	2	0.20
395	65 Cancri α	4.8	...	8	51	15.87	77	37	59.2	2	0.11
396	... ..	9.2	1	8	51	28.37	147	15	26.4	1	0.23
397	... ..	8.0	1	8	52	25.58	77	33	27.0	1	0.20
398	... ..	9.3	1	8	54	17.34	142	42	4.1	1	0.21
399	... ..	9.0	1	8	54	29.52	130	35	48.4	1	0.21
400	... ..	9.0	1	8	54	56.43	130	36	23.4	1	0.22
401	Taylor 3941	7.8	1	8	55	6.97	144	7	20.6	1	0.15
402	... ..	9.7	1	8	56	26.09	146	51	59.6	1	0.25
403	... ..	9.3	1	8	56	45.98	146	56	39.0	1	0.23
404	... ..	8.5	1	8	57	1.22	146	35	29.0	1	0.16
405	... ..	9.7	1	8	58	16.22	146	19	20.3	1	0.13
406	... ..	10.5	1	9	2	29.68	71	27	23.1	1	0.21
407	... ..	9.3	2	9	5	17.06	124	49	16.6	2	0.19
408	Taylor 4026	7.1	3	9	6	3.84	132	43	40.1	3	0.20
409	Taylor 4028	8.0	1	9	6	13.99	132	43	54.9	1	0.25
410	... ..	7.9	1	9	6	34.57	132	30	27.2	1	0.26
411	... ..	8.5	1	9	6	39.01	133	42	30.2	1	0.21
412	... ..	10.0	1	9	7	42.47	124	43	12.0	1	0.23
413	Lacaille 3747	8.5	1	9	7	51.61	150	24	48.4	1	0.23
414	... ..	9.3	1	9	9	24.41	150	32	46.5	1	0.23
415	Lacaille 3761	7.3	...	9	9	36.08	150	22	24.2	1	0.23
416	... ..	7.6	1	9	10	50.54	150	21	48.5	1	0.10
417	38 Cancri	6.6	...	9	11	36.66	71	44	13.3	13	0.16
418	... ..	9.0	1	9	12	29.99	124	48	30.9	1	0.23
419	... ..	8.5	3	9	15	10.88	150	29	44.6	3	0.25
420	... ..	7.0	3	9	15	45.69	124	47	52.5	3	0.21

387.—Comparison star for Melete in 1868.

393,—394.—Observed for map of T Hydræ Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
386	11 Hydræ ε ...	+ 3.1961	- 0.0071	+ 0.013	+ 12.876	+ 0.351	+ 0.04	2971
387	W. B. E. VIII, 1023.	+ 3.2176	- 0.0076	...	+ 12.904	+ 0.353	...	...
388	Lacaille 3594 ...	+ 2.2409	+ 0.0032	...	+ 13.053	+ 0.242	...	...
389	... ..	+ 2.0166	+ 0.0023	...	+ 13.096	+ 0.217	...	...
390	... ..	+ 2.0876	+ 0.0026	...	+ 13.856	+ 0.216	...	...
391	... ..	+ 2.1467	+ 0.0032	...	+ 13.407	+ 0.227	...	...
392	... ..	+ 2.1348	+ 0.0033	...	+ 13.503	+ 0.224	...	...
393	... ..	+ 2.9209	- 0.0016	...	+ 13.611	+ 0.307	...	...
394	W. B. E. VIII 1802.	+ 2.9181	- 0.0016	...	+ 13.615	+ 0.306	...	...
395	65 Cancri α ...	+ 3.2871	- 0.0098	0.000	+ 13.630	+ 0.345	+ 0.04	3055
396	... ..	+ 1.5483	- 0.0037	...	+ 13.643	+ 0.159	...	...
397	... ..	+ 3.2875	- 0.0098	...	+ 13.704	+ 0.344	...	...
398	... ..	+ 1.8005	+ 0.0005	...	+ 13.823	+ 0.184	...	...
399	... ..	+ 2.2428	+ 0.0039	...	+ 13.836	+ 0.231	...	...
400	... ..	+ 2.2440	+ 0.0039	...	+ 13.865	+ 0.231	...	...
401	Taylor 3941 ...	+ 1.7375	- 0.0003	...	+ 13.876	+ 0.177	...	...
402	... ..	+ 1.6014	- 0.0026	...	+ 13.958	+ 0.162	...	...
403	... ..	+ 1.5991	- 0.0027	...	+ 13.979	+ 0.161	...	...
404	... ..	+ 1.6203	- 0.0023	...	+ 13.995	+ 0.163	...	...
405	... ..	+ 1.6427	- 0.0018	...	+ 14.073	+ 0.165	...	...
406	... ..	+ 3.3858	- 0.0133	...	+ 14.334	+ 0.340	...	...
407	... ..	+ 2.4296	+ 0.0045	...	+ 14.504	+ 0.239	...	...
408	Taylor 4026 ...	+ 2.2223	+ 0.0048	...	+ 14.551	+ 0.217	...	...
409	Taylor 4028 ...	+ 2.2228	+ 0.0048	...	+ 14.561	+ 0.217	...	...
410	... ..	+ 1.8756	+ 0.0022	...	+ 14.532	+ 0.182	...	...
411	... ..	+ 2.0273	+ 0.0037	...	+ 14.536	+ 0.197	...	...
412	... ..	+ 2.4374	+ 0.0046	...	+ 14.649	+ 0.237	...	...
413	Lacaille 3747 ...	+ 1.4651	- 0.0057	...	+ 14.658	+ 0.140	...	...
414	... ..	+ 1.4680	- 0.0057	...	+ 14.750	+ 0.138	...	...
415	Lacaille 3761 ...	+ 1.4807	- 0.0052	...	+ 14.762	+ 0.140	...	...
416	... ..	+ 1.4908	- 0.0050	...	+ 14.835	+ 0.140	...	...
417	83 Cancri ...	+ 3.3678	- 0.0134	- 0.012	+ 14.880	+ 0.323	+ 0.16	3171
418	... ..	+ 2.4517	+ 0.0050	...	+ 14.932	+ 0.233	...	...
419	... ..	+ 1.5157	- 0.0044	...	+ 15.088	+ 0.140	...	...
420	... ..	+ 2.4613	+ 0.0053	...	+ 15.121	+ 0.229	...	...

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
421	... ..	9.0	1	9	16	41.36	124	48	33.3	1	0.25
422	... ..	9.0	2	9	19	26.92	150	31	40.0	2	0.24
423	... ..	9.0	1	9	19	53.66	125	22	13.4	1	0.23
424	30 Hydræ α Var. 2.	2.0	...	9	21	5.99	98	5	17.7	8	0.19
425	Lalande 18683	9.4	2	9	23	31.15	68	7	52.2	2	0.19
426	25 Ursæ Majoris θ	3.2	...	9	24	0.79	37	43	24.0	1	0.25
427	... ..	9.0	1	9	24	24.20	153	41	48.4	1	0.21
428	Lacaille 3886	7.9	1	9	24	51.43	141	50	51.8	1	0.26
429	Lalande 18730	9.0	2	9	25	6.02	68	38	53.5	2	0.17
430	... ..	8.9	1	9	27	3.02	144	59	10.5	1	0.23
431	... ..	8.2	1	9	28	24.25	146	32	59.5	1	0.23
432	... ..	8.8	2	9	28	35.51	144	0	43.9	2	0.21
433	Taylor 4226	6.9	2	9	28	45.19	146	30	36.5	2	0.22
434	... ..	9.2	2	9	31	31.50	126	26	40.0	2	0.21
435	... ..	9.2	1	9	32	22.17	129	40	54.9	1	0.21
436	14 Leonis σ	3.8	...	9	34	6.23	79	30	32.2	4	0.19
437	Lacaille 3980	7.0	1	9	34	37.41	143	34	50.0	1	0.18
438	... ..	7.5	2	9	34	53.26	151	57	38.8	2	0.17
439	... ..	9.4	2	9	35	33.50	143	30	38.7	2	0.22
440	... ..	7.0	1	9	37	2.40	143	26	27.4	1	0.23
441	... ..	8.0	1	9	37	12.20	143	32	20.7	1	0.17
442	17 Leonis ϵ	3.1	...	9	38	21.20	65	37	11.4	6	0.21
443	... ..	9.3	1	9	39	47.12	143	34	48.0	1	0.22
444	l Carinæ Var. I.	3.7	...	9	41	37.53	151	54	1.7	1	0.23
445	Taylor 4337	7.3	2	9	41	59.02	143	26	22.1	2	0.19
446	... ..	8.0	1	9	41	59.85	130	50	26.9	1	0.21
447	... ..	8.3	1	9	42	52.02	130	48	56.8	1	0.21
448	... ..	7.9	1	9	43	42.55	143	47	1.5	1	0.26
449	... ..	7.5	1	9	44	17.64	143	31	1.5	1	0.22
450	... ..	9.3	1	9	45	6.92	129	48	27.2	1	0.23
451	R. P. L. 70	6.5	...	9	47	0.07	5	26	55.5	2	0.21
452	Taylor 4331	6.0	1	9	47	12.88	152	7	40.3	1	0.17
453	27 Leonis ν	5.3	...	9	51	7.21	76	55	39.0	4	0.18
454	... ..	9.2	1	9	52	52.35	129	41	47.9	1	0.23
455	29 Leonis π	5.0	...	9	53	14.17	81	19	26.2	10	0.21

424.— α Hydræ Var. 2.—Supposed to vary irregularly from 2.0 to 2.5 magnitude.

425.—429.—Comparison stars for Metis in 1861.

444.—l Carinæ Var. I.—Period 31 days.—Range, 3.7 to 5.2 magnitude.

451.—Carrington 1451.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
421	... ..	+ 2'4644	+ 0'0053	...	+ 15'175	+ 0'228	...	...
422	... ..	+ 1'5469	- 0'0035	...	+ 15'331	+ 0'138	...	...
423	... ..	+ 2'4617	+ 0'0056	...	+ 15'357	+ 0'224	...	...
424	30 Hydræ α Var. 2 ...	+ 2'9506	- 0'0013	- 0'004	+ 15'425	+ 0'268	- 0'03	3223
425	Lalande 18683 ...	+ 3'4107	- 0'0159	...	+ 15'559	+ 0'308	...	...
426	25 Ursæ Majoris θ ...	+ 4'1597	- 0'0561	- 0'111	+ 15'586	+ 0'374	+ 0'57	3242
427	... ..	+ 0'9192	- 0'0275	...	+ 15'607	+ 0'077	...	...
428	Lacaille 3886 ...	+ 2'0060	+ 0'0052	...	+ 15'633	+ 0'176	...	...
429	Lalande 18730 ...	+ 3'3990	- 0'0156	...	+ 15'646	+ 0'304	...	...
430	... ..	+ 1'8908	+ 0'0038	...	+ 15'752	+ 0'164	...	...
431	... ..	+ 1'8283	+ 0'0029	...	+ 15'825	+ 0'157	...	...
432	... ..	+ 1'9424	+ 0'0047	...	+ 15'835	+ 0'167	...	...
433	Taylor 4226 ...	+ 1'8333	+ 0'0030	...	+ 15'844	+ 0'157	...	...
434	... ..	+ 2'4763	+ 0'0067	...	+ 15'991	+ 0'211	...	...
435	... ..	+ 2'4060	+ 0'0072	...	+ 16'036	+ 0'204	...	...
436	14 Leonis α ...	+ 3'2193	- 0'0093	- 0'013	+ 16'127	+ 0'272	+ 0'04	3312
437	Lacaille 3980 ...	+ 1'7751	+ 0'0024	...	+ 16'153	+ 0'147	...	...
438	... ..	+ 1'5875	- 0'0021	...	+ 16'171	+ 0'130	...	...
439	... ..	+ 1'7865	+ 0'0027	...	+ 16'203	+ 0'147	...	...
440	... ..	+ 1'8006	+ 0'0031	...	+ 16'277	+ 0'146	...	...
441	... ..	+ 1'7970	+ 0'0030	...	+ 16'279	+ 0'146	...	...
442	17 Leonis ϵ ...	+ 3'4232	- 0'0180	- 0'004	+ 16'345	+ 0'282	+ 0'02	3331
443	... ..	+ 1'8150	+ 0'0036	...	+ 16'416	+ 0'145	...	...
444	γ Carinæ Var. 1 ...	+ 1'6504	- 0'0001	- 0'003	+ 16'509	+ 0'130	- 0'02	3353
445	Taylor 4337 ...	+ 1'8390	+ 0'0042	...	+ 16'526	+ 0'145	...	...
446	... ..	+ 2'4176	+ 0'0033	...	+ 16'528	+ 0'193	...	...
447	... ..	+ 2'4213	+ 0'0034	...	+ 16'570	+ 0'192	...	...
448	... ..	+ 2'0493	+ 0'0075	...	+ 16'612	+ 0'160	...	...
449	... ..	+ 1'8535	+ 0'0047	...	+ 16'640	+ 0'144	...	...
450	... ..	+ 2'4536	+ 0'0035	...	+ 16'681	+ 0'192	...	...
451	R. P. L. 70 ...	+ 10'7560	- 1'5795	...	+ 16'773	+ 0'353	...	...
452	Taylor 4381 ...	+ 1'6880	+ 0'0013	...	+ 16'782	+ 0'128	...	3389
453	27 Leonis ν ...	+ 3'2376	- 0'0106	- 0'004	+ 16'967	+ 0'245	+ 0'01	3406
454	... ..	+ 2'4376	+ 0'0095	...	+ 17'043	+ 0'134	...	...
455	29 Leonis π ...	+ 3'1793	- 0'0050	- 0'003	+ 17'064	+ 0'236	+ 0'03	3415

444.—Proper motions from "Stone's Cape Catalogus."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
456	...	9.0	1	9	54	0.22	152	7	56.9	1	0.26
457	...	8.0	1	9	56	0.17	147	25	25.2	1	0.28
458	...	8.5	1	9	56	35.30	144	4	59.1	1	0.14
459	...	8.5	1	9	58	33.79	150	40	8.5	1	0.31
460	...	9.0	2	9	59	35.34	86	31	31.1	2	0.28
461	...	9.3	1	10	0	6.95	86	23	24.8	1	0.29
462	31 Leonis A	4.6	...	10	0	53.90	79	21	25.2	2	0.18
463	32 Leonis α (Regulus)	1.4	...	10	1	20.40	77	23	19.5	19	0.22
464	...	9.0	1	10	1	31.23	130	3	7.9	1	0.16
465	...	9.0	1	10	2	11.55	129	57	35.9	1	0.24
466	...	8.1	1	10	4	36.19	122	55	9.7	1	0.26
467	Taylor 4552	6.0	...	10	7	10.74	147	24	35.1	1	0.24
468	R. P. L. 72	5.9	...	10	10	0.25	5	4	48.9	4	0.63
469	...	8.4	1	10	10	25.41	139	52	22.7	1	0.10
470	41 Leonis γ^1	2.2	...	10	12	41.43	69	29	31.7	17	0.23
471	...	8.9	1	10	14	46.38	150	26	43.3	1	0.19
472	...	9.0	1	10	16	9.50	125	33	32.5	1	0.21
473	...	9.7	2	10	19	32.69	146	9	55.0	2	0.18
474	...	9.3	3	10	21	28.61	125	34	29.1	3	0.22
475	...	7.2	2	10	22	20.31	125	32	47.3	2	0.25
476	...	8.5	2	10	24	34.59	147	0	9.1	2	0.30
477	...	8.9	1	10	24	56.02	125	35	6.8	1	0.25
478	47 Leonis ρ	4.0	...	10	25	51.54	80	0	54.6	18	0.25
479	Taylor 4769	6.0	1	10	30	31.39	146	52	31.4	1	0.25
480	...	9.2	1	10	31	13.21	151	10	51.8	1	0.22
481	...	9.4	1	10	35	2.36	139	17	54.6	1	0.31
482	R Ursæ Majoris Var. 1.	8.1	2	10	35	15.84	20	31	56.7	2	0.30
483	...	8.3	1	10	35	50.66	146	54	44.9	1	0.31
484	...	8.6	1	10	37	33.87	151	30	35.1	1	0.29
485	36 Sextantis	6.0	...	10	38	21.24	86	49	8.3	1	0.11
486	Taylor 4850 1st	9.3	1	10	38	43.67	143	51	28.2	1	0.23
487	η Argûs Var. 1.	8.0	...	10	39	53.86	143	59	29.3	2	0.26
488	...	9.0	2	10	41	7.49	137	2	17.4	2	0.31
489	Taylor 4872	8.1	1	10	41	13.94	151	14	51.4	1	0.32
490	53 Leonis l	5.3	...	10	42	19.02	78	45	26.0	12	0.25

5046

468.—Groombridge 1620.

482.—R Ursæ Majoris Var. 1.—Period 303 days.—Range, 6th to 13th magnitude.

487.— η Argûs Var. 1.—Irregularly variable from 1st to 9th magnitude.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in R. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
456	... ..	+ 1.7510	+ 0.0034	...	+ 17.099	+ 0.127	...	...
457	... ..	+ 1.9945	+ 0.0036	...	+ 17.190	+ 0.143	...	...
458	... ..	+ 2.1255	+ 0.0102	...	+ 17.217	+ 0.152	...	...
459	... ..	+ 1.8695	+ 0.0087	...	+ 17.805	+ 0.131	...	...
460	... ..	+ 3.1128	- 0.0054	...	+ 17.350	+ 0.221	...	...
461	... ..	+ 3.1142	- 0.0055	...	+ 17.373	+ 0.220	...	...
462	31 Leonis A ...	+ 3.1969	- 0.0091	- 0.009	+ 17.407	+ 0.225	+ 0.05	3457
463	32 Leonis α (<i>Regulus</i>)	+ 3.2201	- 0.0102	- 0.019	+ 17.426	+ 0.225	- 0.01	3459
464	... ..	+ 2.5166	+ 0.0105	...	+ 17.435	+ 0.175	...	...
465	... ..	+ 2.5213	+ 0.0105	...	+ 17.463	+ 0.173	...	...
2/ 466	... ..	+ 3.6545	+ 0.0089	...	+ 17.566	+ 0.179	...	...
467	Taylor 4552 ...	+ 2.0837	+ 0.0116	...	+ 17.673	+ 0.136	...	3491
468	R. P. L. 72 ...	+ 10.0180	- 1.6521	- 0.079	+ 17.789	+ 0.687	+ 0.05	3495
469	... ..	+ 2.3423	+ 0.0184	...	+ 17.805	+ 0.140	...	...
470	41 Leonis γ^1 ...	+ 3.2977	- 0.0143	+ 0.019	+ 17.896	+ 0.203	+ 0.15	3523
471	... ..	+ 2.0272	+ 0.0122	...	+ 17.978	+ 0.123	...	...
472	... ..	+ 2.6537	+ 0.0110	...	+ 18.031	+ 0.161	...	...
473	... ..	+ 2.2256	+ 0.0155	...	+ 18.153	+ 0.130	...	...
474	... ..	+ 2.6736	+ 0.0116	...	+ 18.230	+ 0.154	...	...
475	... ..	+ 2.6772	+ 0.0116	...	+ 18.262	+ 0.153	...	...
476	... ..	+ 2.2394	+ 0.0163	...	+ 18.341	+ 0.124	...	...
477	... ..	+ 2.6866	+ 0.0120	...	+ 18.355	+ 0.150	...	...
478	47 Leonis ρ ...	+ 3.1661	- 0.0080	0.000	+ 18.387	+ 0.176	+ 0.03	3609
479	Taylor 4769 ...	+ 2.2924	+ 0.0185	...	+ 18.546	+ 0.119	...	3635
480	... ..	+ 2.1540	+ 0.0179	...	+ 18.563	+ 0.111	...	...
481	... ..	+ 2.5091	+ 0.0182	...	+ 18.693	+ 0.125	...	...
482	R. Ursæ Majoris Var 1	+ 4.3621	- 0.1402	...	+ 18.700	+ 0.223	...	...
483	... ..	+ 2.3354	+ 0.0202	...	+ 18.718	+ 0.114	...	...
484	... ..	+ 2.2059	+ 0.0205	...	+ 18.774	+ 0.105	...	...
485	36 Sextantis ...	+ 3.0981	- 0.0040	- 0.006	+ 18.796	+ 0.150	+ 0.01	3684
486	Taylor 4850 1st ...	+ 2.3045	+ 0.0212	...	+ 18.809	+ 0.109	...	...
487	η Argûs Var. 1 ...	+ 2.3103	+ 0.0215	...	+ 18.843	+ 0.107	...	3695
488	... ..	+ 2.5373	+ 0.0186	...	+ 18.878	+ 0.120	...	...
489	Taylor 4872 ...	+ 2.2511	+ 0.0220	...	+ 18.882	+ 0.102	...	...
490	53 Leonis l ...	+ 3.1605	- 0.0080	- 0.003	+ 18.914	+ 0.145	+ 0.02	3703

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
491	...	8.0	2	10	46	13.16	141	41	7.9	2	0.31
492	...	8.8	1	10	47	8.35	141	46	5.2	1	0.23
493	...	8.7	3	10	49	26.40	141	46	8.7	3	0.27
494	Taylor 4945	6.8	1	10	49	5.84	144	54	58.9	1	0.30
495	...	8.9	1	10	50	42.01	148	40	19.8	1	0.20
496	7 Crateris α	4.1	...	10	53	20.63	107	35	47.5	3	0.31
497	59 Leonis c	5.1	...	10	53	54.39	89	11	23.8	1	0.18
498	R Crateris Var. 1...	7.9	3	10	54	3.99	107	37	2.3	3	0.32
499	...	9.1	2	10	55	36.99	88	26	37.5	3	0.25
500	R. P. L. 79	7.7	...	10	56	31.66	1	38	39.7	1	0.20
501	...	8.9	1	10	57	9.42	145	33	44.8	1	0.19
502	63 Leonis χ	4.7	...	10	58	12.89	81	57	3.5	13	0.25
503	Lacaille 4612	8.0	1	11	1	4.62	154	47	51.8	1	0.29
504	...	8.8	1	11	1	58.94	149	15	0.4	1	0.29
505	S Leonis Var. 2	10.1	5	11	4	1.23	88	49	27.2	5	0.22
506	Taylor 5088	7.2	1	11	5	5.68	149	40	9.1	1	0.31
507	...	8.3	...	11	5	59.61	149	0	3.0	1	0.21
508	63 Leonis δ	2.8	...	11	7	5.05	68	45	13.5	11	0.28
509	...	8.0	1	11	10	36.12	148	57	10.1	1	0.29
510	12 Crateris δ	3.9	...	11	12	44.55	104	3	52.9	18	0.29
511	77 Leonis σ	4.1	...	11	14	19.69	83	14	52.0	2	0.33
512	...	8.7	1	11	16	38.27	125	40	20.3	1	0.34
513	...	9.3	3	11	19	52.82	91	40	31.7	3	0.19
514	W. B. E. XI. 359	8.1	3	11	21	19.11	91	44	46.3	3	0.18
515	...	9.7	3	11	22	30.82	91	57	27.0	3	0.23
516	...	8.4	2	11	24	44.27	23	57	14.7	2	0.32
517	...	8.0	2	11	24	46.34	146	10	17.4	2	0.30
518	...	9.2	1	11	24	53.16	84	43	39.4	1	0.34
519	...	8.3	1	11	25	19.21	151	32	48.5	1	0.25
520	91 Leonis ν	4.5	...	11	30	11.39	90	5	43.6	8	0.30
521	...	8.9	1	11	32	20.59	144	15	54.6	1	0.29
522	...	8.0	2	11	33	17.75	144	52	57.1	2	0.24
523	...	8.0	1	11	33	18.63	144	15	56.4	1	0.19
524	...	8.0	1	11	34	9.27	127	50	47.4	1	0.36
525	Lacaille 4850	6.7	3	11	34	37.83	144	50	32.9	3	0.26

498.—R Crateris Var. 1.—Changes between 8th and 9th magnitude.

499.—513.—514.—515.—Comparison stars for Asia in 1868.

500.—Carrington 1689.

505.—S Leonis Var. 2.—Period 188 days.—Range 9th to below 13th magnitude.

516.—Comparison star for Comet 2 in 1861.

518.—Observed by mistake for Amphitrite in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
491	...	+ 2.5367	+ 0.0215	...	+ 19.024	+ 0.109	...	...
492	...	+ 2.5416	+ 0.0218	...	+ 19.050	+ 0.108	...	...
498	...	+ 2.5509	+ 0.0222	...	+ 19.086	+ 0.106	...	...
494	Taylor 4945	+ 2.4926	+ 0.0236	...	+ 19.103	+ 0.103	...	...
495	...	+ 2.4142	+ 0.0254	...	+ 19.145	+ 0.097	...	...
496	7 Crateris α	+ 2.9506	+ 0.0072	- 0.033	+ 19.212	+ 0.115	- 0.14	3766
497	59 Leonis c	+ 3.1176	- 0.0052	- 0.005	+ 19.226	+ 0.122	+ 0.06	3769
498	R Crateris Var. 1	+ 2.9418	+ 0.0068	...	+ 19.231	+ 0.114	...	...
499	...	+ 3.0821	- 0.0024	...	+ 19.269	+ 0.117	...	...
500	R. P. L. 79	+ 15.8083	- 9.8065	...	+ 19.290	+ 0.623	...	...
501	...	+ 2.5442	+ 0.0262	...	+ 19.306	+ 0.093	...	...
502	68 Leonis χ	+ 3.1224	- 0.0056	- 0.024	+ 19.330	+ 0.113	+ 0.08	3788
503	Lacaille 4612	+ 2.3497	+ 0.0315	...	+ 19.395	+ 0.079	...	...
504	...	+ 2.5093	+ 0.0297	...	+ 19.416	+ 0.084	...	...
505	S. Leonis Var. 2	+ 3.1071	- 0.0044	...	+ 19.460	+ 0.101	...	...
506	Taylor 5088	+ 2.5299	+ 0.0312	...	+ 19.482	+ 0.080	...	...
507	...	+ 2.5526	+ 0.0311	...	+ 19.500	+ 0.079	...	...
508	68 Leonis δ	+ 3.1910	- 0.0132	+ 0.011	+ 19.523	+ 0.093	+ 0.14	3834
509	...	+ 2.5972	+ 0.0328	...	+ 19.590	+ 0.073	...	...
510	12 Crateris δ	+ 3.0035	+ 0.0064	- 0.009	+ 19.630	+ 0.081	- 0.18	3859
511	77 Leonis σ	+ 3.1035	- 0.0042	- 0.009	+ 19.658	+ 0.081	+ 0.03	3862
512	...	+ 2.8916	+ 0.0182	...	+ 19.698	+ 0.071	...	...
513	...	+ 3.0653	+ 0.0006	...	+ 19.749	+ 0.070	...	...
514	W. B. El. XI 359	+ 3.0652	+ 0.0006	...	+ 19.771	+ 0.067	...	...
515	...	+ 3.0646	+ 0.0008	...	+ 19.787	+ 0.064	...	...
516	...	+ 3.5559	- 0.0923	...	+ 19.818	+ 0.071	...	...
517	...	+ 2.7667	+ 0.0352	...	+ 19.819	+ 0.053	...	...
518	...	+ 3.0909	- 0.0028	...	+ 19.819	+ 0.060	...	...
519	...	+ 2.7002	+ 0.0415	...	+ 19.826	+ 0.050	...	...
520	91 Leonis ν	+ 3.0718	+ 0.0003	- 0.003	+ 19.886	+ 0.049	- 0.03	3946
521	...	+ 2.8485	+ 0.0356	...	+ 19.909	+ 0.041	...	...
522	...	+ 2.8511	+ 0.0367	...	+ 19.919	+ 0.039	...	...
523	...	+ 2.8562	+ 0.0360	...	+ 19.919	+ 0.039	...	...
524	...	+ 2.9552	+ 0.0219	...	+ 19.927	+ 0.040	...	...
525	Lacaille 4650	+ 2.8624	+ 0.0370	...	+ 19.934	+ 0.037	...	...

5/

Mean Positions of Stars for 1868 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>		
526	... ..	7.9	1	11	38	21.08	149	40	9.2	1	0.31
527	... ..	8.2	1	11	38	25.55	148	37	15.2	1	0.34
528	3 Virginis ν	4.2	...	11	39	4.28	82	44	52.2	2	0.18
529	94 Leonis β (<i>Deneb</i>)	2.2	...	11	42	19.48	74	41	25.4	15	0.30
530	... ..	9.0	1	11	43	20.38	143	46	36.2	2	0.29
531	5 Virginis β	3.7	...	11	43	49.13	87	29	29.0	3	0.26
532	... ..	9.4	1	11	46	3.46	142	32	22.2	1	0.35
533	64 Ursæ Majoris γ	2.6	...	11	46	52.85	35	34	24.4	1	0.19
534	... ..	9.0	1	11	48	37.10	124	56	7.1	1	0.31
535	... ..	8.1	2	11	50	9.12	123	6	51.5	2	0.29
536	Lacaille 4956	8.0	2	11	51	21.82	154	35	17.1	2	0.30
537	... ..	8.0	1	11	51	35.94	123	53	54.7	1	0.35
538	... ..	8.9	1	11	51	49.08	144	14	16.0	1	0.37
539	... ..	8.1	2	11	53	25.98	151	49	36.5	2	0.23
540	θ^1 Crucis	5.0	...	11	56	19.54	152	34	44.4	3	0.35
541	Taylor 5535	7.9	3	11	57	15.75	70	26	50.1	3	0.29
542	R. P. L. 89	6.8	...	11	58	3.78	3	40	51.1	1	0.33
543	5041 Lacaille	7.8	1	12	2	45.38	141	24	34.7	1	0.36
544	... ..	8.3	3	12	2	49.69	141	7	1.8	3	0.36
545	2 Corvi ϵ	3.1	...	12	3	20.32	111	53	8.4	10	0.32
546	... ..	8.3	1	12	6	0.62	134	9	29.3	1	0.37
547	... ..	9.3	1	12	6	41.29	150	27	44.4	1	0.29
548	... ..	9.3	1	12	7	49.63	90	15	39.9	1	0.25
549	Taylor 5613	7.6	3	12	8	7.86	130	24	9.3	3	0.36
550	69 Ursæ Majoris δ	3.4	...	12	8	53.01	32	14	2.2	3	0.28
551	... ..	8.6	1	12	10	19.43	138	25	48.5	1	0.37
552	R. P. L. 92	6.7	...	12	13	0.72	2	49	52.5	1	0.33
553	15 Virginis η	4.0	...	12	13	9.15	89	55	59.7	10	0.30
554	... ..	8.0	1	12	16	58.90	147	11	8.5	1	0.35
555	... ..	7.8	1	12	17	35.69	24	44	27.3	1	0.37
556	α Crucis	1.5	...	12	19	16.48	152	22	2.9	1	0.11
557	... ..	8.4	1	12	20	5.52	124	14	29.7	1	0.32
558	... ..	7.9	3	12	20	58.99	141	20	39.6	3	0.33
559	... ..	8.0	1	12	21	19.65	145	43	37.4	1	0.19
560	Taylor 5725	6.9	3	12	21	23.23	145	40	8.5	3	0.32

542.—Groombridge 1850.

552.—Groombridge 1871.

555.—Comparison star for Comet 2. 1861.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
526	... ..	+ 2'8565	+ 0'0444	...	+ 19'965	+ 0'080	...	...
527	... ..	+ 2'8660	+ 0'0430	...	+ 19'966	+ 0'080	...	...
528	3 Virginis ν ...	+ 3'0877	- 0'0081	+ 0'001	+ 19'971	+ 0'082	+ 0'21	3982
529	94 Leonis β (<i>Deneb</i>) ...	+ 3'1003	- 0'0074	- 0'036	+ 19'995	+ 0'025	+ 0'10	3995
530	... ..	+ 2'9395	+ 0'0382	...	+ 20'001	+ 0'022	...	...
531	5 Virginis β ...	+ 3'0763	- 0'0003	+ 0'048	+ 20'005	+ 0'023	+ 0'28	4002
532	... ..	+ 2'9661	+ 0'0373	...	+ 20'018	+ 0'017	...	...
533	64 Ursæ Majoris γ ...	+ 3'1790	- 0'0433	+ 0'011	+ 20'023	+ 0'017	0'00	4017
534	... ..	+ 3'0257	+ 0'0215	...	+ 20'080	+ 0'018	...	...
535	... ..	+ 3'0271	+ 0'0241	...	+ 20'086	+ 0'010	...	...
536	Lacaille 4956 ...	+ 2'9661	+ 0'0598	...	+ 20'040	+ 0'008	...	...
537	... ..	+ 3'0326	+ 0'0249	...	+ 20'041	+ 0'007	...	...
538	... ..	+ 3'0058	+ 0'0410	...	+ 20'042	+ 0'007	...	...
539	... ..	+ 3'0005	+ 0'0543	...	+ 20'047	+ 0'003	...	...
540	θ^1 Crucis ...	+ 3'0307	+ 0'0577	- 0'025	+ 20'052	- 0'002	0'00	4061
541	Taylor 5535 ...	+ 3'0778	- 0'0089	...	+ 20'054	- 0'003	...	...
542	R. P. L. 89 ...	+ 3'2469	- 0'5154	...	+ 20'054	- 0'005	...	4070
543	Lacaille 5041 ...	+ 3'0923	+ 0'0400	...	+ 20'054	- 0'014	...	...
544	... ..	+ 3'0926	+ 0'0396	...	+ 20'053	- 0'015	...	...
545	2 Corvi ϵ ...	+ 3'0799	+ 0'0142	- 0'005	+ 20'053	- 0'016	- 0'01	4097
546	... ..	+ 3'1061	+ 0'0318	...	+ 20'048	- 0'021	...	...
547	... ..	+ 3'1410	+ 0'0574	...	+ 20'047	- 0'022	...	...
548	... ..	+ 3'0723	+ 0'0024	...	+ 20'043	- 0'024	...	...
549	Taylor 5618 ...	+ 3'1126	+ 0'0284	...	+ 20'042	- 0'025	...	...
550	69 Ursæ Majoris δ ...	+ 2'9900	- 0'0425	+ 0'015	+ 20'039	- 0'026	+ 0'04	4123
551	... ..	+ 3'1400	+ 0'0376	...	+ 20'035	- 0'030	...	...
552	R. P. L. 92 ...	+ 1'5368	+ 0'0030	+ 0'415	+ 20'023	- 0'022	+ 0'08	4150
553	15 Virginis η ...	+ 3'0720	+ 0'0027	- 0'007	+ 20'021	- 0'035	+ 0'03	4145
554	... ..	+ 3'2256	+ 0'0535	...	+ 19'999	- 0'044	...	...
555	... ..	+ 2'8496	- 0'0523	...	+ 19'996	- 0'041	...	...
556	α Crucis ...	+ 3'2864	+ 0'0680	- 0'006	+ 19'985	- 0'050	+ 0'04	4187
557	... ..	+ 3'1518	+ 0'0244	...	+ 19'977	- 0'049	...	...
558	... ..	+ 3'2250	+ 0'0438	...	+ 19'970	- 0'051	...	...
559	... ..	+ 3'2545	+ 0'0518	...	+ 19'968	- 0'053	...	...
560	Taylor 5725 ...	+ 3'2545	+ 0'0517	...	+ 19'968	- 0'053	...	...

540.—556.—Proper motions from "Stone's Cape Catalogue."

552.—Proper motion in P. D. from "Greenwich Catalogue 1850."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
561	...	8.1	1	12	21	23.86	147	27	11.7	1	0.38
562	...	9.8	2	12	24	48.29	151	46	12.2	2	0.31
563	W. B. E. XII. 446	8.4	2	12	27	26.19	92	59	27.7	2	0.37
564	9 Corvi β	2.8	...	12	27	27.37	112	39	59.6	8	0.33
565	Lalande 23532	8.0	1	12	28	40.78	92	40	8.8	1	0.36
566	...	9.2	2	12	31	4.18	142	21	2.0	2	0.38
567	R. Virginis Var. 2...	7.0	2	12	31	47.92	82	17	6.5	2	0.38
568	...	9.2	1	12	32	49.29	100	6	1.9	1	0.27
569	...	7.7	1	12	34	0.62	145	34	50.7	1	0.36
570	29 Virginis γ^1 north	2.8	...	12	34	58.31	90	43	27.3	4	0.19
571	29 Virginis γ^2 south	...	...	12	34	58.57	90	43	33.6	1	0.23
572	28 Virginis	7.0	1	12	35	8.12	96	46	26.6	1	0.40
573	...	8.2	2	12	38	30.24	146	29	42.5	2	0.31
574	...	8.5	1	12	39	39.02	143	51	37.1	1	0.19
575	...	9.0	1	12	39	41.38	141	55	33.3	1	0.38
576	...	9.4	1	12	39	48.51	94	3	12.2	1	0.35
577	...	7.9	1	12	41	2.78	141	54	18.6	1	0.37
578	...	8.7	5	12	42	48.19	94	24	37.6	5	0.30
579	...	9.4	2	12	43	21.25	80	42	39.9	2	0.35
580	...	7.6	2	12	44	57.13	141	56	57.4	2	0.38
581	Radcliffe 2922	7.3	2	12	45	16.76	26	17	48.8	2	0.37
582	...	8.0	1	12	49	37.57	145	35	30.0	1	0.40
583	12 Canum Venaticorum...	3.0	...	12	49	50.90	50	58	5.7	7	0.32
584	...	9.5	1	12	51	23.27	127	6	22.6	1	0.40
585	...	8.2	1	12	53	30.79	143	41	40.4	1	0.38
586	...	8.1	1	12	53	39.27	135	45	46.4	1	0.27
587	...	8.6	1	12	55	16.05	124	24	21.6	1	0.38
588	...	8.9	2	12	56	0.34	149	28	49.3	2	0.39
589	51 Virginis θ	4.4	...	13	3	6.99	94	50	1.4	10	0.34
590	Taylor 6057	6.2	2	13	4	4.32	149	13	4.2	2	0.34
591	Lacaille 5434	7.7	1	13	6	13.32	152	52	54.7	1	0.42
592	...	8.7	2	13	7	53.46	139	47	30.5	2	0.39
593	R. P. L. 101	7.5	...	13	9	41.64	1	38	34.9	3	0.33
594	...	8.0	1	13	9	59.29	129	57	33.8	1	0.33
595	Taylor 6129	7.0	1	13	12	26.70	130	29	48.0	1	0.38

563.—565.—Comparison stars for Polyhymnia in 1867.

567.—R. Virginis Var. 2.—Period 146 days. Range, 6.5 to 11.5 magnitude.

568.—Comparison star for Sappho in 1867.

576.—578.—Comparison stars for Hestia in 1864 and 1868.

579.—Comparison star for Isis in 1867.

581.—Comparison star for Comet 2. 1861.

593.—Groombridge 2006.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
561	... ..	+ 3·2674	+ 0·0556	...	+ 19·967	- 0·053	...	...
562	... ..	+ 3·3410	+ 0·0683	...	+ 19·938	- 0·062	...	...
563	W. B. E. XII. 446 ...	+ 3·0805	+ 0·0051	...	+ 19·911	- 0·063	...	...
564	9 Corvi β	+ 3·1388	+ 0·0164	- 0·008	+ 19·911	- 0·064	+ 0·07	4234
565	Lalande 23532	+ 3·0804	+ 0·0050	...	+ 19·898	- 0·065	...	...
566	... ..	+ 3·3063	+ 0·0476	...	+ 19·871	- 0·074	...	...
567	R Virginis Var. 2 ...	+ 3·0471	- 0·0003	...	+ 19·862	- 0·070	...	...
568	... ..	+ 3·1061	+ 0·0091	...	+ 19·840	- 0·074	...	...
569	... ..	+ 3·3606	+ 0·0548	...	+ 19·834	- 0·081	...	...
570	29 Virginis γ^1 north..	+ 3·0746	+ 0·0043	- 0·037	+ 19·822	- 0·078	+ 0·05	4268
571	29 Virginis γ^2 south..	+ 3·0746	+ 0·0043	- 0·037	+ 19·822	- 0·078	+ 0·05	4268
572	28 Virginis	+ 3·0064	+ 0·0074	+ 0·001	+ 19·820	- 0·078	+ 0·04	4269
573	... ..	+ 3·4098	+ 0·0581	...	+ 19·772	- 0·092	...	...
574	... ..	+ 3·3874	+ 0·0525	...	+ 19·755	- 0·093	...	...
575	... ..	+ 3·3663	+ 0·0487	...	+ 19·754	- 0·092	...	...
576	... ..	+ 3·0886	+ 0·0002	...	+ 19·752	- 0·086	...	...
577	... ..	+ 3·3760	+ 0·0490	...	+ 19·734	- 0·095	...	...
578	... ..	+ 3·0012	+ 0·0066	...	+ 19·707	- 0·092	...	...
579	... ..	+ 3·0310	- 0·0003	...	+ 19·697	- 0·091	...	...
580	... ..	+ 3·4050	+ 0·0498	...	+ 19·670	- 0·104	...	...
581	Radcliffe 2922	+ 2·5410	- 0·0344	...	+ 19·664	- 0·080	...	...
582	... ..	+ 3·4916	+ 0·0586	...	+ 19·587	- 0·117	...	...
583	12 Canum Venaticor.	+ 2·8382	- 0·0152	- 0·023	+ 19·583	- 0·098	- 0·06	4346
584	... ..	+ 3·2070	+ 0·0298	...	+ 19·553	- 0·115	...	...
585	... ..	+ 3·4031	+ 0·0549	...	+ 19·510	- 0·124	...	...
586	... ..	+ 3·3007	+ 0·0407	...	+ 19·508	- 0·123	...	...
587	... ..	+ 3·2708	+ 0·0275	...	+ 19·474	- 0·122	...	...
588	... ..	+ 3·6200	+ 0·0716	...	+ 19·459	- 0·136	...	...
589	51 Virginis θ	+ 3·1020	+ 0·0678	- 0·004	+ 19·290	- 0·132	+ 0·04	4401
590	Taylor 6057	+ 3·6915	+ 0·0720	...	+ 19·276	- 0·158	...	4412
591	Lacaille 5434	+ 3·8150	+ 0·0880	...	+ 19·223	- 0·166	...	...
592	... ..	+ 3·5330	+ 0·0403	...	+ 19·181	- 0·158	...	...
593	R. P. L. 101	- 10·8852	+ 8·0455	...	+ 19·135	+ 0·467	...	...
594	... ..	+ 3·4080	+ 0·0346	...	+ 19·127	- 0·157	...	...
595	Taylor 6129	+ 3·4271	+ 0·0353	...	+ 19·061	- 0·163	...	...

570—571.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 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>		
596	Taylor 6148	7.1	1	13	14	25.89	128	9	35.3	1	0.27
597	Taylor 6160	9.0	1	13	15	48.82	128	56	12.8	1	0.29
598	67 Virginis α (<i>Spica</i>)	1.2	...	13	18	14.45	100	28	17.3	13	0.34
599	79 Urs. Maj. ζ^3 (<i>Mizar</i>)	2.4	...	13	18	36.32	34	23	5.6	2	0.38
600	... ..	9.0	1	13	19	16.00	143	28	4.0	1	0.39
601	Radcliffe 3011	8.0	1	13	19	35.69	34	24	50.9	1	0.40
602	V Virginis Var. 7	9.9	2	13	20	59.85	92	29	15.5	2	0.41
603	74 Virginis ζ^2	5.1	...	13	25	6.28	95	34	25.0	3	0.32
604	... ..	8.0	1	13	25	45.33	128	11	33.6	1	0.29
605	79 Virginis ζ	3.5	...	13	27	58.09	89	55	13.3	8	0.37
606	Taylor 7180	6.5	3	13	28	16.92	151	0	45.1	3	0.34
607	Lacaille 5614	7.9	1	13	30	10.87	128	13	23.2	1	0.38
608	Lacaille 5639	7.6	1	13	33	27.06	123	47	19.5	1	0.34
609	82 Virginis m	5.3	...	13	34	41.00	98	2	9.4	2	0.19
610	O. A. S. 13079	9.1	2	13	36	5.02	116	49	51.2	2	0.37
611	Lacaille 5659	9.1	2	13	37	24.66	152	14	49.1	2	0.39
612	O. A. S. 13100	8.5	2	13	37	27.20	116	58	54.9	2	0.40
613	... ..	9.2	1	13	38	50.64	152	47	15.8	1	0.39
614	85 Urs. Maj. η (<i>Benetnasch</i>)	2.0	...	13	42	20.22	40	1	37.4	1	0.27
615	O. A. S. 13186	8.8	2	13	43	58.65	116	58	41.5	2	0.32
616	O. A. S. 13198	9.3	1	13	45	1.24	117	11	46.7	1	0.41
617	Lacaille 5734	7.0	1	13	48	0.31	151	50	22.6	1	0.27
618	8 Bootis η	2.9	...	13	48	23.89	70	56	23.1	13	0.37
619	... ..	7.5	1	13	50	25.56	123	44	58.6	1	0.41
620	... ..	9.2	1	13	52	31.33	151	31	48.1	1	0.39
621	β Centauri... ..	1.2	...	13	54	31.85	149	44	4.9	2	0.27
622	93 Virginis τ	4.4	...	13	54	55.78	87	48	55.6	8	0.40
623	... ..	8.0	1	13	58	29.14	129	21	13.8	1	0.42
624	94 Virginis	7.0	...	13	59	18.48	98	15	37.6	1	0.19
625	... ..	9.7	1	14	2	16.46	124	17	21.7	1	0.39
626	... ..	8.0	1	14	5	18.61	129	21	27.8	1	0.31
627	98 Virginis κ	4.3	...	14	5	51.41	99	39	28.8	4	0.34
628	... ..	8.5	1	14	6	24.09	135	2	27.5	1	0.36
629	16 Bootis α (<i>Arcturus</i>)	0.0	...	14	9	38.47	70	7	45.1	9	0.38
630	... ..	9.6	2	14	11	43.83	124	28	41.9	2	0.41

602.—V Virginis Var. 7.—Period 251 days.—Range, 7th to below 13th magnitude.

610.—612.—615.—616.—Comparison stars for Atalanta in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
596	Taylor 6148 ...	+ 3·4073	+ 0·0328	...	+ 19·007	- 0·166	...	...
597	Taylor 6160 ...	+ 3·4229	+ 0·0338	...	+ 18·967	- 0·170	...	...
598	69 Virginis α (<i>Spica</i>).	+ 3·1548	+ 0·0116	- 0·005	+ 18·897	- 0·163	+ 0·04	4480
599	79 Urs. Maj. δ^1 (<i>Mizar</i>)	+ 2·4151	- 0·0172	+ 0·017	+ 18·887	- 0·127	+ 0·04	4484
600	... ..	+ 3·6840	+ 0·0587	...	+ 18·867	- 0·190	...	...
601	Radcliffe 3011 ...	+ 2·4079	- 0·0170	...	+ 18·857	- 0·127	...	...
602	V Virginis Var. 7 ...	+ 3·0922	+ 0·0073	...	+ 18·815	- 0·164	...	...
603	74 Virginis ι^2 ...	+ 3·1194	+ 0·0091	- 0·006	+ 18·689	- 0·174	+ 0·04	4516
604	... ..	+ 3·4566	+ 0·0334	...	+ 18·667	- 0·192	...	...
605	79 Virginis δ ...	+ 3·0714	+ 0·0064	- 0·019	+ 18·596	- 0·176	- 0·06	4532
606	Taylor 7180 ...	+ 3·0789	+ 0·0855	...	+ 18·585	- 0·226	...	4533
607	Lacaille 5614 ...	+ 3·4759	+ 0·0337	...	+ 18·522	- 0·202	...	...
608	Lacaille 5639 ...	+ 3·4269	+ 0·0291	...	+ 18·410	- 0·207	...	...
609	82 Virginis m ...	+ 3·1479	+ 0·0108	- 0·010	+ 18·367	- 0·192	0·00	4565
610	O. A. S. 13079 ...	+ 3·3474	+ 0·0229	...	+ 18·318	- 0·207	...	...
611	Lacaille 5659 ...	+ 4·1197	+ 0·0933	...	+ 18·270	- 0·255	...	...
612	O. A. S. 13100 ...	+ 3·3529	+ 0·0231	...	+ 18·269	- 0·210	...	...
613	... ..	+ 4·1591	+ 0·0964	...	+ 18·218	- 0·261	...	...
614	85 Ursæ Majoris η ...	+ 2·3846	- 0·0103	- 0·012	+ 18·089	- 0·159	+ 0·03	4607
615	O. A. S. 13186 ...	+ 3·3704	+ 0·0233	...	+ 18·026	- 0·224	...	...
616	O. A. S. 13198 ...	+ 3·3760	+ 0·0234	...	+ 17·986	- 0·226	...	...
617	Lacaille 5734 ...	+ 4·2061	+ 0·0930	...	+ 17·868	- 0·286	...	...
618	8 Bootis η ...	+ 2·8616	- 0·0006	- 0·004	+ 17·853	- 0·199	+ 0·36	4648
619	... ..	+ 3·4861	+ 0·0295	...	+ 17·772	- 0·243	...	...
620	... ..	+ 4·2346	+ 0·0920	...	+ 17·686	- 0·299	...	...
621	β Centauri ...	+ 4·1700	+ 0·0841	- 0·010	+ 17·662	- 0·301	+ 0·05	4669
622	98 Virginis τ ...	+ 3·0477	+ 0·0064	+ 0·001	+ 17·585	- 0·221	+ 0·07	4672
623	... ..	+ 3·6141	+ 0·0361	...	+ 17·434	- 0·268	...	...
624	94 Virginis ...	+ 3·1687	+ 0·0115	- 0·002	+ 17·398	- 0·237	+ 0·01	4688
625	... ..	+ 3·5358	+ 0·0302	...	+ 17·268	- 0·269	...	...
626	... ..	+ 3·0423	+ 0·0362	...	+ 17·131	- 0·284	...	...
627	98 Virginis κ ...	+ 3·1910	+ 0·0122	+ 0·001	+ 17·106	- 0·250	+ 0·02	4716
628	... ..	+ 3·7737	+ 0·0445	...	+ 17·031	- 0·295	...	...
629	16 Bootis α (<i>Arcturus</i>)	+ 2·8132	+ 0·0004	- 0·079	+ 16·932	- 0·227	+ 1·93	4729
630	... ..	+ 3·5713	+ 0·0304	...	+ 16·832	- 0·290	...	...

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

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

Mean Positions of Stars for 1868 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>		
631	100 Virginis λ	4.6	...	14	11	58.21	102	45	44.1	4	0.34
632	... ..	7.9	1	14	14	44.06	150	47	9.4	1	0.38
633	Taylor 6709	7.0	1	14	16	12.84	119	4	26.8	1	0.36
634	... ..	10.0	1	14	19	40.46	124	29	53.8	2	0.41
635	... ..	8.5	1	14	19	43.25	124	39	27.7	1	0.42
636	... ..	9.0	...	14	22	11.87	122	35	5.8	1	0.41
637	... ..	9.0	1	14	23	58.08	136	55	29.3	1	0.40
638	25 Bootis ρ	8.6	...	14	26	8.37	59	2	53.1	10	0.40
939	Lacaille 6027	7.4	1	14	31	18.78	122	48	21.4	1	0.37
640	W.B.E. XV. 716	9.0	2	14	34	48.08	62	1	57.5	2	0.39
641	... ..	9.5	2	14	35	2.15	61	57	2.6	2	0.41
642	36 Bootis ϵ (<i>Mirac</i>)	2.6	...	14	39	13.40	62	22	4.6	5	0.43
643	... ..	9.2	1	14	42	39.98	129	7	51.7	1	0.40
644	8 Libræ α^1	5.3	...	14	43	23.37	105	26	47.7	1	0.39
645	9 Libræ α^2	3.0	...	14	43	34.72	105	29	30.1	6	0.38
646	Taylor 6991	6.7	1	14	52	0.18	39	49	50.6	1	0.39
647	O. A. N. 14999	9.2	1	14	53	40.32	41	26	24.8	1	0.40
648	19 Libræ δ Var. 4... ..	4.9	...	14	53	55.16	97	59	37.1	2	0.34
649	43 Bootis ψ	4.5	...	14	58	47.36	62	32	11.5	5	0.47
650	... ..	9.2	1	15	0	37.73	150	57	26.0	1	0.37
651	... ..	8.5	1	15	1	11.19	97	23	13.2	1	0.50
652	W. B. E. XV. 7	9.0	2	15	2	33.51	97	21	55.9	2	0.45
653	W. B. E. XV. 32	9.0	1	15	3	39.75	97	2	32.6	1	0.41
654	R. P. L. III.	6.9	...	15	5	16.94	5	32	23.4	2	0.44
655	27 Libræ β	2.7	...	15	9	54.35	98	53	33.5	9	0.40
656	Lacaille 6354	9.0	1	15	15	15.71	124	16	3.3	1	0.47
657	... ..	7.3	1	15	15	29.17	53	2	54.1	1	0.41
658	32 Libræ ζ^1	6.2	...	15	20	43.96	106	15	15.5	1	0.27
659	R. P. L. 114	7.1	...	15	20	56.87	2	15	53.2	3	0.36
660	... ..	9.3	2	15	22	39.87	125	11	2.4	2	0.41
661	Taylor 7240	7.7	...	15	24	39.99	130	2	20.5	1	0.46
662	... ..	7.9	1	15	28	57.23	126	36	13.0	1	0.52
663	5 Cor. Bor. α (<i>Alpha</i>)	2.4	...	15	29	5.91	62	50	22.6	5	0.47
664	24 Serpentis α	2.7	...	15	37	45.00	83	9	25.6	9	0.47
665	O. A. S. 14874	8.9	1	15	39	41.59	104	49	24.8	1	0.40

46.00

646—647—Comparison stars for Comet 2. 1861.

648.—3 Libræ Var. 4.—Period 2.32 days. Range, 4.9 to 6.0 magnitude.

651.—652.—653.—Comparison stars for Comet 2: 1867.

654.—Groombridge 2213.

657.—Observed for map of S. Coronæ Borealis Var. 2.

659.—Groombridge 2263.

665.—Comparison star for Asia in 1861.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
631	100 Virginis λ	+ 3.2370	+ 0.0140	- 0.002	+ 16.821	- 0.264	- 0.02	4743
632	... ..	+ 4.3982	+ 0.0900	...	+ 16.688	- 0.362	...	...
633	Taylor 6709	+ 3.4885	+ 0.0252	...	+ 16.615	- 0.292	...	...
634	... ..	+ 3.5981	+ 0.0304	...	+ 16.445	- 0.308	...	...
635	... ..	+ 3.6013	+ 0.0306	...	+ 16.438	- 0.308	...	...
636	... ..	+ 3.5690	+ 0.0285	...	+ 16.317	- 0.309	...	...
637	... ..	+ 3.9126	+ 0.0476	...	+ 16.226	- 0.342	...	...
638	25 Bootis ρ	+ 2.5947	- 0.0015	- 0.008	+ 16.114	- 0.233	- 0.14	4808
639	Lacaille 6027	+ 3.6007	+ 0.0234	...	+ 15.840	- 0.329	...	...
640	W. B. E. XV. 46	+ 2.6282	- 0.0004	...	+ 15.651	- 0.246	...	...
641	... ..	+ 2.6262	- 0.0004	...	+ 15.639	- 0.247	...	...
642	36 Bootis ϵ (Mirac)	+ 2.6240	- 0.0001	- 0.005	+ 15.407	- 0.252	- 0.01	4876
643	... ..	+ 3.7811	+ 0.0350	...	+ 15.212	- 0.366	...	...
644	8 Libræ α^1	+ 3.3137	+ 0.0154	- 0.007	+ 15.171	- 0.323	+ 0.07	4894
645	9 Libræ α^2	+ 3.3146	+ 0.0154	- 0.007	+ 15.160	- 0.324	+ 0.06	4895
646	Taylor 6991	+ 1.9790	+ 0.0013	...	+ 14.667	- 0.203	...	4937
647	O. A. N. 14999	+ 2.0313	+ 0.0008	...	+ 14.567	- 0.209	...	...
648	19 Libræ δ Var. 4	+ 3.2013	+ 0.0116	- 0.006	+ 14.553	- 0.328	+ 0.02	4939
649	43 Bootis ψ	+ 2.5833	+ 0.0010	- 0.013	+ 14.256	- 0.271	0.00	4969
650	... ..	+ 4.7793	+ 0.0878	...	+ 14.142	- 0.500	...	...
651	... ..	+ 3.1953	+ 0.0112	...	+ 14.108	- 0.337	...	...
652	W. B. E. XV. 7	+ 3.1957	+ 0.0112	...	+ 14.022	- 0.339	...	...
653	W. B. E. XV. 32	+ 3.1907	+ 0.0112	...	+ 13.953	- 0.340	...	...
654	R. P. L. 111	- 6.8973	+ 1.1858	...	+ 13.851	+ 0.730	...	5022
655	27 Libræ β	+ 3.2263	+ 0.0117	- 0.009	+ 13.555	- 0.353	+ 0.01	5034
656	Lacaille 6354	+ 3.7577	+ 0.0274	...	+ 13.205	- 0.418	...	...
657	... ..	+ 2.4440	+ 0.0014	...	+ 13.191	- 0.274	...	...
658	32 Libræ γ^1	+ 3.3716	+ 0.0148	+ 0.002	+ 12.836	- 0.384	+ 0.05	5089
659	R. P. L. 114	- 22.9140	+ 7.7087	...	+ 12.827	+ 2.563	...	5140
660	... ..	+ 3.8012	+ 0.0276	...	+ 12.711	- 0.434	...	...
661	Taylor 7240	+ 3.9473	+ 0.0325	...	+ 12.575	- 0.453	...	...
662	... ..	+ 3.8573	+ 0.0285	...	+ 12.282	- 0.449	...	...
663	5 Cor. Bor. α (Alpha)	+ 2.5295	+ 0.0023	+ 0.009	+ 12.271	- 0.297	+ 0.07	5143
664	24 Serpentis α	+ 2.9416	+ 0.0062	+ 0.009	+ 11.663	- 0.354	- 0.05	5196
665	O. A. S. 14874	+ 3.8618	+ 0.0133	...	+ 11.525	- 0.405	...	...

648.—658.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
666	... ..	9.5	2	15	42	23.24	108 ^h	25	6.0	2	0.40
667	36 Serpentis δ ...	5.2	...	15	44	23.21	92	41	18.9	1	0.52
668	O. A. S. 14963 ...	8.7	1	15	44	42.21	108	2	16.0	1	0.47
669	46 Libræ θ ...	4.8	...	15	46	18.74	106	20	22.7	2	0.35
670	16 Ursæ Minoris ζ ...	4.5	...	15	48	50.23	11	48	2.2	1	0.35
671	O. A. S. 15055 ...	7.0	2	15	49	36.92	105	33	50.4	2	0.41
672	48 Libræ ...	4.8	...	15	50	47.88	103	53	46.0	3	0.45
673	... ..	7.5	1	15	51	22.40	143	45	57.8	1	0.48
674	O. A. S. 15089 ...	9.0	1	15	51	44.61	105	50	31.0	1	0.47
675	Lalande 29193 ...	9.0	1	15	55	57.63	86	58	17.9	1	0.50
676	W. B. E. XV. 1047 ...	8.0	...	15	56	8.65	91	16	52.2	1	0.48
677	51 Scorpii δ ...	4.1	...	15	57	6.69	101	0	25.0	3	0.42
678	8 Scorpii β^1 ...	2.9	...	15	57	45.88	109	26	29.9	6	0.47
679	O. A. S. 15342 ...	8.4	1	16	3	40.18	107	46	10.6	1	0.38
680	R. P. L. 116 ...	6.9	...	16	3	52.57	4	19	23.4	2	0.41
681	1 Ophiuchi δ ...	2.8	...	16	7	25.71	93	21	8.7	6	0.48
682	O. A. S. 15470 ...	8.5	1	16	9	22.98	112	35	29.7	1	0.50
683	O. A. S. 15552 ...	9.8	1	16	13	27.90	107	22	39.0	1	0.50
684	... ..	9.2	1	16	16	4.93	152	17	33.1	1	0.50
685	4 Ophiuchi ψ ...	4.6	...	16	16	22.91	109	43	33.0	2	0.35
686	21 Scorpii α (Antares) ...	1.1	...	16	21	19.06	116	8	11.3	4	0.51
687	... ..	8.5	...	16	22	52.26	43	27	23.1	1	0.46
688	8 Ophiuchi ϕ ...	4.4	...	16	23	35.13	106	19	20.6	2	0.35
689	... ..	9.0	1	16	24	5.11	152	15	35.2	1	0.50
690	Taylor 7723 ...	5.2	...	16	33	56.35	107	29	2.0	1	0.50
691	40 Heronidis ζ ...	3.1	...	16	36	18.58	58	9	24.1	11	0.52
692	... ..	9.0	1	16	37	0.72	130	58	29.7	1	0.42
693	... ..	9.0	...	16	44	41.18	131	1	56.5	1	0.48
694	... ..	9.3	1	16	47	20.01	131	0	2.4	1	0.48
695	27 Ophiuchi κ ...	3.4	...	16	51	25.27	80	25	3.6	4	0.58
696	... ..	9.0	1	16	56	6.14	130	55	1.7	1	0.48
697	22 Ursæ Minoris ϵ ...	4.5	...	16	59	36.15	7	45	2.3	3	0.97
698	Taylor 7926 ...	9.0	1	17	0	3.94	136	51	24.6	1	0.47
699	35 Ophiuchi η ...	2.6	...	17	2	43.55	105	33	32.4	1	0.50
700	Lacaille 7168 ...	7.8	1	17	4	52.28	128	8	1.0	1	0.48

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

668.—679.—683.—Comparison stars for Sylvia in 1866.

671.—674.—Comparison stars for Asia in 1861.

675.—676.—Comparison stars for Comet 2. 1862.

680.—Carrington 2423.

682.—Observed for map of R Scorpii Var. 1.

687.—Comparison star for Comet 2. 1861.

[104]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
666	... ..	+ 3·3557	+ 0·0130	...	+ 11·331	- 0·409	...	...
667	36 Serpentis δ	+ 3·1243	+ 0·0097	- 0·04	+ 11·186	- 0·395	+ 0·02	5246
668	O. A. S. 14963	+ 3·4339	+ 0·0145	...	+ 11·164	- 0·421	...	...
669	46 Libræ θ	+ 3·3994	+ 0·0136	+ 0·009	+ 11·046	- 0·418	- 0·12	5257
670	16 Ursæ Minoris ζ	- 2·3076	+ 0·2039	+ 0·029	+ 10·861	+ 0·278	+ 0·08	5235
671	O. A. S. 15055	+ 3·3876	+ 0·0132	...	+ 10·804	- 0·421	...	...
672	48 Libræ ...	+ 3·3517	+ 0·0124	- 0·002	+ 10·716	- 0·418	+ 0·10	5290
673	... ..	+ 4·6168	+ 0·0506	...	+ 10·673	- 0·575	...	...
674	O. A. S. 15089	+ 3·3936	+ 0·0131	...	+ 10·647	- 0·424	...	...
675	Lalande 29198	+ 3·0115	+ 0·0069	...	+ 10·332	- 0·380	...	...
676	W. B. E. XV. 1047...	+ 3·0978	+ 0·0079	...	+ 10·318	- 0·392	...	...
677	51 Scorpii ξ	+ 3·2957	+ 0·0109	- 0·008	+ 10·245	- 0·417	+ 0·02	5324
678	8 Scorpii β^1	+ 3·4784	+ 0·0142	- 0·002	+ 10·196	- 0·441	+ 0·02	5329
679	O. A. S. 15342	+ 3·4466	+ 0·0130	...	+ 9·748	- 0·443	...	...
680	R. P. L. 116 ...	- 12·3904	+ 1·7525	...	+ 9·732	+ 1·572	...	...
681	1 Ophiuchi δ	+ 3·1411	+ 0·0081	- 0·006	+ 9·460	- 0·408	+ 0·13	5414
682	O. A. S. 15470	+ 3·5649	+ 0·0147	...	+ 9·308	- 0·464	...	...
683	O. A. S. 15552	+ 3·4462	+ 0·0121	...	+ 8·990	- 0·453	...	...
684	... ..	+ 5·3608	+ 0·0682	...	+ 8·785	- 0·706	...	...
685	4 Ophiuchi ψ	+ 3·5033	+ 0·0128	- 0·004	+ 8·761	- 0·464	+ 0·06	5437
686	21 Scorpii α (Antares)	+ 3·6682	+ 0·0150	- 0·001	+ 8·371	- 0·491	+ 0·03	5438
687	... ..	+ 1·9922	+ 0·0040	...	+ 8·247	- 0·269	...	...
688	8 Ophiuchi ϕ ...	+ 3·4295	+ 0·0110	- 0·001	+ 8·190	- 0·461	+ 0·03	5516
689	... ..	+ 5·3949	+ 0·0638	...	+ 8·150	- 0·722	...	...
690	Taylor 7723 ...	+ 3·4639	+ 0·0105	...	+ 7·356	- 0·473	...	5579
691	40 Hercules ζ	+ 2·2965	+ 0·0033	- 0·034	+ 7·162	- 0·316	- 0·45	5604
692	... ..	+ 4·1580	+ 0·0215	...	+ 7·104	- 0·570	...	...
693	... ..	+ 4·1734	+ 0·0198	...	+ 6·473	- 0·579	...	...
694	... ..	+ 4·1765	+ 0·0192	...	+ 6·253	- 0·581	...	...
695	27 Ophiuchi κ	+ 2·8564	+ 0·0044	- 0·023	+ 5·912	- 0·402	- 0·02	5703
696	... ..	+ 4·1864	+ 0·0171	...	+ 5·519	- 0·589	...	...
697	22 Ursæ Minoris	- 6·4125	+ 0·3051	+ 0·009	+ 5·224	+ 0·901	- 0·01	5730
698	Taylor 7926 ...	+ 4·4502	+ 0·0203	...	+ 5·185	- 0·629	...	...
699	35 Ophiuchi ν	+ 3·4323	+ 0·0074	+ 0·001	+ 4·952	- 0·487	- 0·12	5731
700	Lacaille 7168	+ 4·0915	+ 0·0139	...	+ 4·778	- 0·581	...	...

667.—Proper motions from "Greenwich Catalogue 1864."

669.—670.—672.—688.—695.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
701	... ..	9.5	1	17	7	24.54	153	42	48.9	1	0.47
702	64 Herouli α Var. 1	3.2	...	17	8	37.72	75	27	25.9	3	0.57
703	... ..	9.5	1	17	12	15.06	130	27	58.9	1	0.48
704	42 Ophiuchi θ	3.4	...	17	13	54.26	114	51	53.9	4	0.48
705	... ..	9.0	1	17	21	20.99	130	43	48.4	1	0.48
706	... ..	9.0	...	17	22	6.64	131	54	16.5	1	0.46
707	... ..	8.0	1	17	22	15.66	128	54	45.0	1	0.47
708	55 Ophiuchi α	2.2	...	17	28	43.40	77	20	30.7	4	0.57
709	55 Serpentis δ	3.7	...	17	30	1.71	105	18	44.9	1	0.50
710	58 Ophiuchi	5.0	...	17	35	31.61	111	36	57.5	1	0.50
711	... ..	8.0	1	17	37	56.21	126	29	26.1	1	0.47
712	86 Herouli μ	3.5	...	17	41	17.50	62	12	2.4	5	0.54
713	... ..	9.2	1	17	45	19.45	128	47	47.5	1	0.48
714	... ..	9.9	1	17	48	22.97	152	8	37.0	1	0.50
715	Taylor 8282	6.6	1	17	48	25.18	131	41	39.1	1	0.60
716	Taylor 8288	5.9	...	17	48	43.50	105	47	11.6	1	0.58
717	Lacaille 7518	7.6	1	17	53	4.30	149	12	17.8	1	0.51
718	33 Draconis γ (<i>Etanin</i>)	2.4	...	17	53	32.43	38	29	41.3	1	0.57
719	13 Sagittarii μ^1	4.1	...	18	5	52.11	111	5	25.8	7	0.55
720	... ..	8.8	...	18	13	11.14	127	48	58.3	1	0.50
721	23 Ursæ Minoris δ	4.3	...	18	14	56.00	3	23	41.7	5	0.17
722	24 Ursæ Minoris	6.1	...	18	19	39.38	3	1	2.6	1	0.12
723	O. A. S. 18346	7.0	1	18	24	26.52	109	12	52.7	1	0.60
724	3 Lyreæ α (<i>Vega</i>)	0.2	...	18	32	23.03	51	20	16.2	10	0.57
725	10 Lyreæ β Var. 1...	3.6	...	18	45	12.29	56	47	20.9	7	0.57
726	37 Sagittarii δ^2	3.5	...	18	49	51.28	111	16	39.2	2	0.58
727	39 Sagittarii ϵ	3.9	...	18	56	46.23	111	55	54.9	3	0.53
728	17 Aquilæ 3	3.1	...	18	59	20.50	76	19	51.3	11	0.61
729	41 Sagittarii π	3.1	...	19	1	54.63	111	13	49.6	1	0.43
730	... ..	7.1	1	19	8	10.46	122	6	48.7	1	0.65
731	43 Sagittarii α	4.9	...	19	9	54.63	109	11	6.3	1	0.58
732	25 Aquilæ ω	5.1	...	19	11	37.12	78	38	26.0	5	0.61
733	44 Sagittarii ρ^1	3.9	...	19	14	0.84	108	5	35.1	1	0.51
734	30 Aquilæ δ	3.5	...	19	18	50.43	87	8	46.2	8	0.64
735	52 Sagittarii h^2	4.6	...	19	28	40.24	115	10	20.9	2	0.67

702.— α Herouli α Var. 1. Changes irregularly between 3rd and 4th magnitude.

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

725.— β Lyreæ Var. 1. Period 12.91 days. Range, 3.5 to 4.5 magnitude.

730.—Comparison star for Eurydice in 1866.

[12.66]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
701	... ..	+ 4.1925	+ 0.0144	...	+ 4.562	- 0.597	...	...
702	64 Hercules α Var. 1.	+ 2.7340	+ 0.0035	- 0.003	+ 4.457	- 0.391	- 0.04	5821
703	... ..	+ 4.1880	+ 0.0132	...	+ 4.148	- 0.599	...	...
704	42 Ophiuchi θ	+ 3.6789	+ 0.0080	- 0.003	+ 4.007	- 0.528	- 0.02	5851
705	... ..	+ 4.2070	+ 0.0111	...	+ 3.366	- 0.605	...	...
706	... ..	+ 4.2555	+ 0.0113	...	+ 3.301	- 0.613	...	...
707	... ..	+ 4.1368	+ 0.0102	...	+ 3.290	- 0.596	...	...
708	55 Ophiuchi α	+ 2.7746	+ 0.0030	...	+ 2.721	- 0.402	...	5941
709	55 Serpentis ξ	+ 3.4351	+ 0.0047	- 0.004	+ 2.615	- 0.498	+ 0.04	5949
710	53 Ophiuchi	+ 3.5990	+ 0.0050	- 0.010	+ 2.138	- 0.523	- 0.04	5987
711	... ..	+ 4.0565	+ 0.0064	...	+ 1.928	- 0.590	...	...
712	86 Hercules μ	+ 2.3695	+ 0.0025	- 0.026	+ 1.635	- 0.346	+ 0.74	6021
713	... ..	+ 4.1448	+ 0.0049	...	+ 1.284	- 0.604	...	...
714	... ..	+ 5.5987	+ 0.0090	...	+ 1.016	- 0.815	...	...
715	Taylor 8282 ...	+ 4.2615	+ 0.0046	...	+ 1.013	- 0.621	...	6061
716	Taylor 8288 ...	+ 3.4496	+ 0.0029	...	+ 0.986	- 0.508	...	6065
717	Lacaille 7518	+ 5.3145	+ 0.0052	...	+ 0.606	- 0.775	...	...
718	53 Draconis γ (<i>Eltanin</i>)	+ 1.3916	+ 0.0030	0.000	+ 0.565	- 0.203	+ 0.04	6091
719	10 Sagittarii μ^1	+ 3.5875	+ 0.0009	- 0.004	- 0.513	- 0.523	+ 0.01	6168
720	... ..	+ 4.1081	- 0.0015	...	- 1.153	- 0.598	...	...
721	23 Ursæ Minoris δ	- 19.4184	- 0.4362	+ 0.048	- 1.305	+ 2.332	- 0.03	6281
722	24 Ursæ Minoris	- 22.2023	- 0.7384	+ 0.085	- 1.718	+ 3.227	- 0.01	6320
723	O. A. S. 18346	+ 3.5354	- 0.0011	...	- 2.135	- 0.512	...	...
724	3 Lyrae α (<i>Vega</i>)	+ 2.0131	+ 0.0016	+ 0.017	- 2.882	- 0.290	- 0.28	6355
725	10 Lyrae β Var. 1	+ 2.2138	+ 0.0015	- 0.002	- 3.980	- 0.315	+ 0.03	6429
726	37 Sagittarii ξ^2	+ 3.5806	- 0.0043	- 0.001	- 4.328	- 0.508	+ 0.03	6461
727	39 Sagittarii σ	+ 3.5941	- 0.0053	+ 0.001	- 4.917	- 0.506	+ 0.05	6507
728	17 Aquilæ 3	+ 2.7578	+ 0.0003	- 0.006	- 5.135	- 0.387	+ 0.07	6528
729	41 Sagittarii π	+ 3.5727	- 0.0057	- 0.004	- 5.352	- 0.500	+ 0.03	6548
730	... ..	+ 3.8745	- 0.0104	...	- 5.878	- 0.538	...	...
731	43 Sagittarii d	+ 3.5153	- 0.0061	- 0.004	- 6.024	- 0.486	- 0.01	6584
732	25 Aquilæ ω	+ 2.8165	- 0.0003	- 0.003	- 6.166	- 0.388	- 0.02	6595
733	44 Sagittarii ρ^1	+ 3.4864	- 0.0061	- 0.003	- 6.364	- 0.480	- 0.03	6619
734	30 Aquilæ δ	+ 3.0093	- 0.0018	+ 0.014	- 6.764	- 0.410	- 0.10	6646
735	52 Sagittarii h^3	+ 3.6539	- 0.0102	+ 0.002	- 7.568	- 0.490	- 0.02	6706

+3.292

+2.027

709.—722.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
736	... ..	8.0	1	19	31	15.39	127	41	58.2	1	0.56
737	55 Sagittarii ϵ^3 ...	5.0	...	19	34	57.98	106	25	51.0	2	0.62
738	50 Aquilæ γ ...	2.8	...	19	39	58.93	79	42	23.1	11	0.64
739	53 Aquilæ α (<i>Altair</i>) ...	1.0	...	19	44	20.44	81	28	41.5	3	0.63
740	60 Aquilæ β ...	4.0	...	19	48	49.67	83	55	15.8	5	0.65
741	λ Ursæ Minoris ...	6.5	...	19	56	15.51	1	5	13.5	3	0.14
742	Lacaille 8363 ... 1st...	8.5	1	20	4	18.52	147	22	1.3	1	0.67
743	... ..	8.3	1	20	4	32.47	143	13	53.0	1	0.74
744	6 Capricorni α^2 ...	3.8	...	20	10	43.67	102	57	7.3	8	0.65
745	... ..	10.3	1	20	16	14.47	106	32	55.0	1	0.70
746	11 Capricorni ρ ...	5.0	...	20	21	19.67	108	14	52.9	5	0.70
747	... ..	7.9	1	20	26	29.54	150	17	31.7	1	0.73
748	... ..	9.0	1	20	28	8.97	143	15	35.6	1	0.70
749	... ..	9.5	1	20	31	17.17	125	31	48.9	1	0.71
750	14 Capricorni τ^2 ...	5.3	...	20	31	53.36	105	24	56.6	1	0.73
751	... ..	9.2	2	20	36	51.21	148	22	44.2	2	0.70
752	50 Cygni α (<i>Deneb</i>) ...	1.5	...	20	36	55.90	45	11	25.1	5	0.60
753	W. B. E. XX. 1024 ...	9.3	1	20	41	6.38	105	23	25.2	1	0.71
754	... ..	8.6	1	20	47	55.41	149	0	24.2	1	0.74
755	32 Vulpeculæ ...	5.1	...	20	48	56.01	62	26	35.5	10	0.69
756	... ..	9.3	3	20	57	59.74	120	24	23.3	3	0.73
757	5 Microscopii ...	6.4	2	20	58	2.61	120	38	51.0	2	0.74
758	23 Capricorni θ ...	4.3	...	20	58	31.31	107	45	19.8	1	0.51
759	... ..	0.2	1	20	59	57.92	129	0	33.8	1	0.70
760	13 Aquarii ν ...	4.6	...	21	2	24.22	101	54	16.5	1	0.74
761	64 Cygni 3 ...	3.5	...	21	7	19.04	60	18	48.3	7	0.70
762	Lacaille 8748 ...	8.0	1	21	10	5.39	145	6	42.5	1	0.65
763	Brisbane 7012 ...	7.9	1	21	14	23.48	151	45	0.7	1	0.73
764	... ..	7.3	3	21	14	34.38	125	28	24.2	3	0.75
765	32 Capricorni ι ...	4.4	...	21	14	53.75	107	23	42.3	1	0.74
766	5 Cephei α (<i>Alderamin</i>) ...	2.6	...	21	15	25.75	27	58	23.5	2	0.75
767	... ..	8.2	1	21	21	25.31	128	55	15.9	1	0.71
768	Lacaille 8329 ...	7.7	3	21	22	50.30	127	7	32.0	3	0.73
769	22 Aquarii β ...	3.1	...	21	24	36.48	96	9	2.0	9	0.74
770	... ..	8.0	1	21	26	5.43	140	22	25.1	1	0.76

745.—Comparison star for Hestia in 1865.

756.—757.—Comparison stars for Sylvia in 1867.

31.67

42

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
736	... ..	+ 4.0246	- 0.0176	...	- 7.776	- 0.538	...	...
737	55 Sagittarii ϵ^2 ...	+ 3.4332	- 0.0075	+ 0.001	- 8.074	- 0.456	- 0.02	6742
738	50 Aquilæ γ ...	+ 2.8520	- 0.0011	+ 0.001	- 8.474	- 0.373	0.00	6772
739	53 Aquilæ α (<i>Altair</i>) ...	+ 2.8921	- 0.0014	+ 0.036	- 8.819	- 0.374	- 0.38	6802
740	60 Aquilæ β ...	+ 2.9454	- 0.0020	+ 0.002	- 9.170	- 0.378	+ 0.47	6838
741	λ Ursæ Minoris ...	- 58.5150	- 29.8230	- 0.035	- 9.730	+ 7.467	- 0.01	6999
742	... ..	+ 4.8604	- 0.0568	...	- 10.352	- 0.603	...	...
743	... ..	+ 4.8501	- 0.0563	...	- 10.368	- 0.602	...	...
744	6 Capricorni α^2 ...	+ 3.3309	- 0.0034	+ 0.001	- 10.830	- 0.403	0.00	6974
745	... ..	+ 3.4012	- 0.0103	...	- 11.232	- 0.406	...	...
746	11 Capricorni ρ ...	+ 3.4317	- 0.0115	- 0.006	- 11.598	- 0.403	+ 0.01	7042
747	... ..	+ 4.9528	- 0.0747	...	- 11.964	- 0.575	...	...
748	... ..	+ 4.5019	- 0.0515	...	- 12.079	- 0.520	...	...
749	... ..	+ 3.8309	- 0.0243	...	- 12.298	- 0.436	...	...
750	14 Capricorni τ^2 ...	+ 3.3627	- 0.0105	- 0.002	- 12.340	- 0.332	+ 0.03	7127
751	... ..	+ 4.7546	- 0.0694	...	- 12.679	- 0.533	...	...
752	50 Cygni α (<i>Deneb</i>) ...	+ 2.0434	+ 0.0021	- 0.002	- 12.684	- 0.226	0.00	7171
753	W. B. E. XX. 1024 ...	+ 3.3530	- 0.0109	...	- 12.965	- 0.367	...	...
754	... ..	+ 4.7267	- 0.0744	...	- 13.414	- 0.507	...	...
755	32 Vulpeculæ ...	+ 2.5555	+ 0.0026	- 0.002	- 13.480	- 0.270	0.00	7256
756	... ..	+ 3.6318	- 0.0215	...	- 14.057	- 0.372	...	...
757	5 Microscopii ...	+ 3.6370	- 0.0213	...	- 14.060	- 0.373	...	7316
758	23 Capricorni θ ...	+ 3.3767	- 0.0128	+ 0.004	- 14.089	- 0.344	+ 0.05	7322
759	... ..	+ 3.8881	- 0.0306	...	- 14.179	- 0.391	...	...
760	13 Aquarii ν ...	+ 3.2694	- 0.0098	+ 0.001	- 14.329	- 0.328	+ 0.01	7344
761	64 Cygni 3 ...	+ 2.5506	+ 0.0038	- 0.003	- 14.627	- 0.248	+ 0.07	7368
762	Lacaille 8748 ...	+ 4.3669	- 0.0634	...	- 14.792	- 0.425	...	...
763	Brisbane 7012 ...	+ 4.7177	- 0.0917	...	- 15.043	- 0.450	...	...
764	... ..	+ 3.7016	- 0.0274	...	- 15.054	- 0.351	...	...
765	32 Capricorni ι ...	+ 3.3485	- 0.0130	0.000	- 15.072	- 0.316	- 0.02	7407
766	5 Cephei α (<i>Alderamin</i>) ...	+ 1.4159	- 0.0071	+ 0.021	- 15.103	- 0.130	- 0.01	7416
767	... ..	+ 3.7610	- 0.0316	...	- 15.442	- 0.343	...	...
768	Lacaille 8829 ...	+ 3.7130	- 0.0295	...	- 15.521	- 0.336	...	...
769	22 Aquarii β ...	+ 3.1624	- 0.0071	- 0.001	- 15.619	- 0.282	0.00	7478
770	... ..	+ 4.0768	- 0.0516	...	- 15.699	- 0.363	...	...

Mean Positions of Stars for 1868 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>		
771	... ..	9.8	1	21	29	5.90	184	3	16.3	1	0.71
772	... ..	8.0	1	21	29	58.34	127	45	16.6	1	0.67
778	Taylor 10082 ...	6.3	...	21	30	57.82	142	57	12.1	1	0.71
774	Taylor 10068 ...	7.0	1	21	34	36.36	134	5	39.8	1	0.75
775	8 Pegasi ϵ ...	2.4	...	21	37	42.08	80	43	43.8	8	0.75
776	... ..	9.1	2	21	37	54.78	127	47	9.0	2	0.76
777	... ..	10.5	1	21	41	1.69	102	31	21.8	1	0.76
778	... ..	9.2	1	21	41	10.10	127	46	23.4	1	0.78
779	Lacaille 8948 ...	7.5	...	21	45	16.71	127	30	50.0	1	0.69
780	51 Capricorni μ ...	5.2	...	21	46	5.83	104	10	16.6	1	0.74
781	16 Pegasi ...	5.0	...	21	47	3.36	64	41	43.2	9	0.71
782	... ..	10.0	1	21	50	56.42	127	28	19.0	1	0.76
783	... ..	9.0	1	21	53	2.00	129	31	33.9	1	0.78
784	Lacaille 9006 ...	7.2	2	21	56	23.89	129	30	44.8	2	0.79
785	34 Aquarii α ...	3.2	...	21	59	0.14	90	57	37.0	8	0.75
786	33 Aquarii ζ ...	4.3	...	21	59	18.38	104	30	31.4	2	0.63
787	W. B. E. XXI. 1413 ...	9.0	2	22	2	1.05	78	8	37.7	2	0.76
788	T Pegasi Var. 4 ...	9.8	2	22	2	26.93	78	6	19.1	2	0.78
789	... ..	9.5	1	22	3	25.31	129	4	12.0	1	0.76
780	9047 Lacaille ...	7.0	1	22	4	10.92	123	57	11.8	1	0.81
791	43 Aquarii θ ...	4.3	...	22	9	51.94	98	26	23.3	8	0.74
792	... ..	8.8	1	22	12	17.60	129	25	32.2	1	0.77
793	... ..	9.3	1	22	14	29.36	146	33	15.3	1	0.78
794	... ..	8.7	1	22	14	58.11	129	25	9.8	1	0.77
795	... ..	9.8	1	22	16	11.56	82	41	19.9	1	0.70
796	W. B. E. XXII. 380 ...	9.4	3	22	18	36.96	88	16	25.0	3	0.80
797	R. P. L. 150 ...	5.4	...	22	23	23.43	4	33	28.7	6	0.41
798	Taylor 10435 ...	7.8	1	22	24	15.42	32	16	17.6	1	0.81
799	... ..	9.4	1	22	24	51.47	129	43	27.9	1	0.79
800	... ..	8.6	3	22	26	11.72	84	5	20.4	3	0.78
801	62 Aquarii η ...	4.2	...	22	28	34.31	90	47	50.4	4	0.75
802	63 Aquarii κ ...	5.5	...	22	30	55.11	94	54	28.9	2	0.74
803	42 Pegasi 5 ...	3.6	...	22	34	52.70	79	51	26.1	11	0.78
804	... ..	8.0	1	22	41	30.88	130	34	9.7	1	0.81
805	... ..	9.8	1	22	43	40.58	130	35	25.3	1	0.77

777.—Observed instead of Urania in 1865.

787.—Observed for map of T Pegasi Var. 4.

788.—T Pegasi Var. 4. Period 373 days. Range, 9th to below 13th magnitude.

796.—800.—Comparison stars for Sappho in 1868.

797.—Groombridge 3620.

798.—The companion of δ Cephei Var. 1.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
771	... ..	+ 3.8637	- 0.0394	...	- 15.862	- 0.338	...	...
772	... ..	+ 3.7021	- 0.0305	...	- 15.909	- 0.322	...	...
773	Taylor 10032	+ 4.1444	- 0.0584	...	- 15.962	- 0.359	...	7513
774	Taylor 10068	+ 3.8399	- 0.0395	...	- 16.153	- 0.325	...	7538
775	8 Pegasi ϵ	+ 2.9451	- 0.0005	+ 0.003	- 16.312	- 0.242	0.000	7561
776	... ..	+ 3.6744	- 0.0307	...	- 16.323	- 0.304	...	...
777	... ..	+ 3.2414	- 0.0104	...	- 16.479	- 0.263	...	...
778	... ..	+ 3.6621	- 0.0307	...	- 16.486	- 0.297	...	...
779	Lacaille 8948	+ 3.6413	- 0.0304	...	- 16.689	- 0.287	...	...
780	51 Capricorni μ	+ 3.2584	- 0.0113	+ 0.021	- 16.729	- 0.255	- 0.02	7618
781	16 Pegasi	+ 2.7256	+ 0.0052	+ 0.001	- 16.774	- 0.210	+ 0.01	7627
782	... ..	+ 3.6192	- 0.0304	...	- 16.958	- 0.275	...	...
783	... ..	+ 3.6525	- 0.0330	...	- 17.056	- 0.273	...	...
784	Lacaille 9006	+ 3.6384	- 0.0329	...	- 17.208	- 0.266	...	...
785	34 Aquarii α	+ 3.0934	- 0.0041	- 0.003	- 17.325	- 0.219	+ 0.02	7688
786	33 Aquarii ι	+ 3.2460	- 0.0113	- 0.001	- 17.337	- 0.231	+ 0.07	7691
787	W. B. E. XXI. 1413.	+ 2.9339	+ 0.0014	...	- 17.456	- 0.203	...	...
788	T Pegasi Var. 4	+ 2.9339	+ 0.0015	...	- 17.474	- 0.203	...	...
789	... ..	+ 3.6007	- 0.0312	...	- 17.516	- 0.236	...	...
790	Lacaille 9047	+ 3.5954	- 0.0321	...	- 17.543	- 0.246	...	...
791	43 Aquarii θ	+ 3.1637	- 0.0075	+ 0.006	- 17.784	- 0.205	+ 0.03	7773
792	... ..	+ 3.5699	- 0.0325	...	- 17.880	- 0.228	...	...
793	... ..	+ 3.9714	- 0.0679	...	- 17.967	- 0.249	...	...
794	... ..	+ 3.5533	- 0.0324	...	- 17.935	- 0.222	...	...
795	... ..	+ 2.9971	+ 0.0001	...	- 18.033	- 0.184	...	...
796	W. B. E. XXII. 380.	+ 3.0543	- 0.0023	...	- 18.125	- 0.183	...	...
797	R. P. L. 150	- 3.7899	- 1.1852	+ 0.048	- 18.299	+ 0.234	- 0.05	7851
798	Taylor 10435	+ 2.2131	+ 0.0166	+ 0.004	- 18.330	- 0.123	- 0.04	7847
799	... ..	+ 3.5202	- 0.0324	...	- 18.351	- 0.199	...	...
800	... ..	+ 3.1272	- 0.0001	...	- 18.393	- 0.167	...	...
801	62 Aquarii η	+ 3.0793	- 0.0031	+ 0.003	- 18.480	- 0.166	+ 0.06	7868
802	63 Aquarii κ	+ 3.1156	- 0.0051	- 0.007	- 18.559	- 0.164	+ 0.11	7884
803	42 Pegasi 3	+ 2.9852	+ 0.0023	+ 0.001	- 18.688	- 0.149	0.00	7908
804	... ..	+ 3.4565	- 0.0325	...	- 18.890	- 0.161	...	...
805	... ..	+ 3.4466	- 0.0325	...	- 18.953	- 0.157	...	...

798.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1868 January 1st.

Number.	Star.	Magnitude.	Estimations	Mean. Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
806	... ..	8.9	2	22	44	55.54	135	40	0.2	2	0.77
807	24 Pis. Ans. α (<i>Fomalhaut</i>)	1.3	...	22	50	21.05	120	19	16.1	8	0.79
808	... ..	8.4	2	22	53	38.08	128	4	3.5	2	0.73
809	... ..	10.3	2	22	54	53.01	101	41	49.8	2	0.78
810	54 Pegasi α (<i>Markab</i>)	2.6	...	22	58	11.12	75	30	17.1	9	0.79
811	... ..	9.3	3	23	3	19.52	127	28	46.4	3	0.79
812	90 Aquarii ϕ	4.2	...	23	7	29.04	96	45	37.3	2	0.75
813	Lacaille 9423 ... 1st...	8.9	1	23	10	4.79	151	43	9.4	1	0.75
814	6 Piscium γ	3.8	...	23	10	19.31	87	26	19.3	5	0.80
815	... ..	9.0	1	23	11	47.11	131	6	52.6	1	0.77
816	... ..	9.2	1	23	11	50.85	129	56	36.0	1	0.79
817	... ..	8.0	1	23	12	21.29	137	2	38.4	1	0.76
818	Groombridge 4040	6.8	1	23	13	6.65	17	1	56.0	2	0.79
819	8 Piscium κ	5.0	...	23	20	9.88	89	28	1.2	8	0.82
820	Lacaille 9496	7.9	2	23	23	29.22	127	41	7.8	2	0.75
821	... ..	8.0	1	23	24	30.89	127	0	57.3	1	0.79
822	Lacaille 9514	9.7	1	23	26	5.46	131	34	27.7	1	0.71
823	Lacaille 9517	7.6	2	23	26	41.77	126	59	37.3	2	0.83
824	17 Piscium ι	4.3	...	23	33	9.66	85	5	19.8	6	0.79
825	35 Cephei γ	3.4	...	23	33	57.64	13	6	15.5	1	0.71
826	... ..	8.9	1	23	34	33.39	147	26	9.6	1	0.88
827	R Aquarii Var 1	9.0	1	23	36	59.33	106	1	1.0	1	0.76
828	Lacaille 9597	8.0	2	23	40	35.52	128	53	23.8	2	0.82
829	20 Piscium	5.7	...	23	41	9.34	93	29	43.4	2	0.75
830	δ Sculptoris	4.6	...	23	42	2.80	118	51	36.9	6	0.81
831	... ..	8.0	1	23	42	11.52	142	3	6.0	1	0.76
832	Lacaille 9638	7.3	1	23	47	14.35	150	16	38.7	1	0.81
833	Lacaille 9650	8.3	2	23	49	18.07	129	46	51.2	2	0.79
834	23 Piscium ω	4.2	...	23	52	32.00	82	53	2.5	8	0.81
835	... ..	8.5	1	23	56	19.92	124	6	25.8	1	0.76
836	33 Piscium	4.6	...	23	58	34.66	96	26	46.4	3	0.77
837	Lacaille 9723	7.5	3	23	59	54.89	126	49	8.0	4	0.76

827.—R Aquarii Var. 1. Period 388 days. Range, 6th to 11th magnitude.

Observed with the Madras Meridian Circle in that Year.

2° 18' 55"

55

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
806	... ..	+ 3.5124	- 0.0395	...	- 18.989	- 0.157	...	..
807	24 Piscis Australis α ..	+ 3.3061	- 0.0210	+ 0.022	- 19.187	- 0.135	+ 0.18	7992
808	... ..	+ 3.3711	- 0.0285	...	- 19.220	- 0.132	...	...
809	... ..	+ 3.1497	- 0.0078	...	- 19.251	- 0.121	...	...
810	54 Pegasi α (Markab)..	+ 2.9800	+ 0.0056	+ 0.003	- 19.330	- 0.107	+ 0.02	8034
811	... ..	+ 3.3230	- 0.0271	...	- 19.445	- 0.110	...	...
812	90 Aquarii φ ...	+ 3.1082	- 0.0045	+ 0.001	- 19.530	- 0.096	+ 0.19	8085
813	Lacaille 9423 1st...	+ 3.6093	- 0.0742	...	- 19.581	- 0.105	...	8101
814	6 Piscium γ ...	+ 3.0592	+ 0.0005	+ 0.047	- 19.586	- 0.087	+ 0.01	8105
815	... ..	+ 3.3158	- 0.0304	...	- 19.613	- 0.093	...	...
816	... ..	+ 3.3056	- 0.0290	...	- 19.614	- 0.093	...	...
817	... ..	+ 3.3686	- 0.0354	...	- 19.623	- 0.094	...	...
818	Groombridge 4040 ...	+ 2.1831	- 0.0392	...	- 19.637	- 0.057	...	8122
819	8 Piscium κ ...	+ 3.0699	0.0000	+ 0.005	- 19.753	- 0.069	+ 0.12	8169
820	Lacaille 9406 ...	+ 3.2349	- 0.0254	...	- 19.801	- 0.066	...	...
821	... ..	+ 3.2276	- 0.0247	...	- 19.815	- 0.063	...	...
822	Lacaille 9514 ...	+ 3.2469	- 0.0293	...	- 19.836	- 0.061	...	...
823	Lacaille 9517 ...	+ 3.2180	- 0.0244	...	- 19.844	- 0.059	...	...
824	17 Piscium ι ...	+ 3.0586	+ 0.0030	+ 0.025	- 19.918	- 0.042	+ 0.45	8233
825	35 Cephei γ ...	+ 2.4208	+ 0.0742	- 0.020	- 19.925	- 0.031	- 0.15	8238
826	... ..	+ 3.3040	- 0.0532	...	- 19.931	- 0.045	...	...
827	R Aquarii Var. 1 ...	+ 3.1097	- 0.0081	...	- 19.953	- 0.036	...	...
828	Lacaille 9597 ...	+ 3.1634	- 0.0246	...	- 19.983	- 0.030	...	...
829	20 Piscium ...	+ 3.0788	- 0.0010	+ 0.002	- 19.987	- 0.028	+ 0.01	8271
830	δ Sculptoris ...	+ 3.1297	- 0.0161	+ 0.009	- 19.993	- 0.026	+ 0.10	8275
831	... ..	+ 3.2053	- 0.0408	...	- 19.994	- 0.028	...	...
832	Lacaille 9638 ...	+ 3.2024	- 0.0557	...	- 20.024	- 0.017	...	...
833	Lacaille 9650 ...	+ 3.1241	- 0.0244	...	- 20.033	- 0.012	...	...
834	28 Piscium ω... ..	+ 3.0674	+ 0.0047	+ 0.010	- 20.045	- 0.005	+ 0.13	8331
835	... ..	+ 3.0867	- 0.0185	...	- 20.052	+ 0.001	...	...
836	33 Piscium ...	+ 3.0730	- 0.0016	- 0.002	- 20.054	+ 0.006	- 0.03	8368
837	Lacaille 9723 ...	+ 3.0725	- 0.0205	...	- 20.055	+ 0.009	...	...

830.—Proper motions taken from "Stone's Cape Catalogue."