
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1864

REDUCED TO JANUARY 1, OF THAT YEAR

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimate s	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
1	11010 Taylor	7.9	1	0	0	28 80	147	35	39 1	1	0.86
2		9.1	1	0	0	42 06	151	23	53 2	1	0.85
3	21 Androm α (<i>Alpherat</i>)	2.0		0	1	21 68	61	39	40 0	9	0.84
4	9789 Lacaille	7.6	2	0	2	4 03	130	29	36 3	2	0.75
5	7 Taylor	7.1	1	0	2	57 47	93	1 ^o	4 6	1	0.71
6	3 Lacaille	6.6	1	0	6	6 66	148	40	15 3	1	0.84
7	88 Pegasus γ (<i>Algenib</i>)	2.7		0	6	14 08	75	34	23 5	9	0.82
8		9.5	2	0	6	32 45	131	7	1 2	2	0.75
9		8.7	1	0	9	22 56	149	31	50 5	1	0.85
10		9.0	2	0	9	33 24	153	55	7 1	2	0.86
11	41 Lacaille	8.1	2	0	12	33 58	130	52	3 0	2	0.78
12		8.7	3	0	12	47 29	150	26	38 8	3	0.81
13	41 Piscium δ	5.6	2	0	13	36 03	82	33	55 0	2	0.71
14		9.0	1	0	18	31 22	152	57	38 5	1	0.85
15	81 Lacaille	7.2	1	0	18	38 22	130	0	39 9	1	0.74
16	12 Ceti	6.4		0	23	5 86	94	42	34 7	9	0.87
17	T Piscium Var 3	10.5	1	0	24	57 60	76	9	0 4	1	0.82
18		8.2	3	0	27	7 36	76	14	8 1	3	0.72
19	132 Lacaille	9.0	1	0	27	18 38	151	53	55 9	1	0.85
20	970 Lalande	7.7	1	0	31	4 54	80	55	9 4	1	0.93
21	1010 Lalande	9.3	2	0	32	15 51	82	32	27 4	2	0.82
22	18 Cassiopeæ α Var 2	2.5		0	32	48 14	34	12	34 7	1	0.92
23	16 Ceti β	2.0		0	36	45 65	108	44	1 4	11	0.89
24	0 628 W B E	9.3		0	36	54 12	93	49	29 9	1	0.85
25		9.0	2	0	39	54 00	150	44	54 7	2	0.86
26	58 Piscium	5.0	1	0	39	55 34	78	46	8 8	1	0.78
27	63 Piscium δ	5.0		0	41	37 67	33	9	21 5	3	0.73
28	253 Lacaille	6.0	1	0	47	57 75	153	30	39 3	1	0.85
29		9.6	1	0	43	55 25	153	49	48 6	1	0.94
30	2 Ursæ Minoris	4.4		0	50	44 32	4	23	29 4	2	0.60
31	0 897 W B E	9.2	3	0	52	12 34	92	49	55 1	3	0.90
32	271 Lacaille	7.5	1	0	52	42 54	151	25	58 2	1	0.86
33	14 R P L	6.2		0	53	⁷ 58 25	3	34	53 8	1	0.39
34	70 Piscium	6.9	1	0	55	2 48	82	47	38 2	1	0.92
35	71 Piscium ϵ	4.5		0	55	53 21	82	50	35 3	8	0.54

- 17—T Piscium Var 3—Period irregular—Range 9.5 to 11th magnitude
 20—21—Comparison stars for Aradne in 1861
 22— α Cassiopeæ Var 2—Irregular—Range 2.2 to 2.8 magnitude
 24—Comparison star for Europa in 1861
 30—12 R P L
 31—Comparison star for Europa in 1862
 33—195 Groombridge

38 47

59 32

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>				
1	11010 Taylor	+ 3 0677	- 0 0452		- 20 055	+ 0 010		8377
2		+ 3 0646	- 0 0526		- 20 055	+ 0 010		
3	21 Andromedæ α	+ 3 0763	+ 0 0182	+ 0 009	- 20 055	+ 0 013	+ 0 15	4
4	9739 Lacaille	+ 3 0618	- 0 0233		- 20 054	+ 0 013		
5	7 Taylor	+ 3 0711	+ 0 0004		- 20 053	+ 0 015		12
6	3 Lacaille	+ 3 0135	- 0 0449		- 20 048	+ 0 021		
7	88 Pegasus γ	+ 3 0813	+ 0 0100	0 000	- 20 048	+ 0 022	+ 0 02	26
8		+ 3 0382	- 0 0232		- 20 046	+ 0 022		
9		+ 2 9792	- 0 0452		- 20 038	+ 0 027		
10		+ 2 9583	- 0 0540		- 20 037	+ 0 027		
11	41 Lacaille	+ 3 0087	- 0 0221		- 20 025	+ 0 033		
12		+ 2 9406	- 0 0453		- 20 024	+ 0 033		
13	41 Piscium d	+ 3 0824	+ 0 0066	- 0 002	- 20 019	+ 0 036	- 0 01	66
14		+ 2 8006	- 0 0472		- 19 989	+ 0 043		
15	81 Lacaille	+ 2 9809	- 0 0205		- 19 989	+ 0 044		
16	12 Ceti	+ 3 0609	+ 0 0008	- 0 002	- 19 954	+ 0 055	+ 0 01	112
17	T Piscium Var 3	+ 3 1079	+ 0 0103		- 19 936	+ 0 053		
18		+ 3 1108	+ 0 0109		- 19 915	+ 0 063		
19	132 Lacaille	+ 2 7745	- 0 0413		- 19 913	+ 0 057		
20	970 Lalande	+ 3 1010	+ 0 0085		- 19 871	+ 0 070		
21	1010 Lalande	+ 3 0967	+ 0 0076		- 19 856	+ 0 072		
22	18 Cassiopeæ α Var 2	+ 3 3525	+ 0 0553	+ 0 006	- 19 850	+ 0 080	+ 0 04	169
23	16 Ceti β	+ 2 9996	- 0 0055	+ 0 013	- 19 798	+ 0 080	- 0 02	196
24	0 628 W B L	+ 3 0578	+ 0 0020		- 19 796	+ 0 080		
25		+ 2 6586	- 0 0340		- 19 752	+ 0 075		
26	58 Piscium	+ 3 1181	+ 0 0101	0 000	- 19 752	+ 0 087	0 00	213
27	63 Piscium δ	+ 3 1010	+ 0 0077	+ 0 003	- 19 725	+ 0 090	+ 0 05	222
28	253 Lacaille	+ 2 5123	- 0 0327		- 19 617	+ 0 084		251
29		+ 2 4957	- 0 0323		- 19 600	+ 0 035		
30	2 Ursæ Minoris	+ 6 8236	+ 1 2850	+ 0 065	- 19 565	+ 0 227	+ 0 01	262
31	0 897 W B E	+ 3 0572	+ 0 0034		- 19 537	+ 0 109		
32	271 Lacaille	+ 2 5123	- 0 0289		- 19 522	+ 0 092		276
33	14 R P L	+ 3 0556	+ 1 9725	- 0 171	- 19 502	+ 0 282	- 0 02	273
34	70 Piscium	+ 3 1123	+ 0 0086	- 0 003	- 19 479	+ 0 116	+ 0 17	281
35	71 Piscium ϵ	+ 3 1125	+ 0 0087	- 0 002	- 19 462	+ 0 119	0 00	288

16-33 — Proper motions adopted from *Greenwich Catalogue*34 — Proper motion in Polar Distance taken from "*Greenwich Catalogue*"

Mean Positions of Stars for 1864 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>					
36	29 Ceti	6.7	1	1	0	58.99	88	43	8.5	1	0.85
37	33 Ceti	6.3		1	3	33.56	88	16	46.1	3	0.00
38	86 Piscium 3 (1st)	6.0		1	6	37.58	83	8	38.8	2	0.77
39	1 Urs Min α (Polaris)	2.0		1	9	18.30	1	24	56.6	8	0.45
40		8.1	2	1	17	0.19	96	31	26.3	2	0.87
41	45 Ceti θ^1	4.0		1	17	13.51	98	53	11.6	6	0.45
42		7.6	1	1	18	53.11	151	20	23.0	1	0.93
43		8.2	1	1	23	28.19	87	43	58.8	1	0.84
44	99 Piscium η	4.5		1	24	12.55	75	21	24.9	10	0.62
45		8.6	1	1	25	44.66	150	21	41.4	1	0.86
46	514 Taylor	6.1	2	1	28	33.59	73	15	51.3	2	0.92
47		9.0	1	1	29	1.31	150	42	35.1	1	0.93
48		8.0	1	1	31	23.00	130	52	17.8	1	0.89
49	α Eridani (Achernar)	1.0		1	32	38.92	147	55	45.6	3	0.92
50	106 Piscium ν	4.7		1	34	21.29	85	12	7.6	6	0.88
51	503 Lacaille	7.7	1	1	35	42.98	151	41	18.8	1	0.85
52	110 Piscium σ	4.7		1	38	12.78	81	31	42.7	4	0.86
53		9.1	1	1	38	33.55	152	2	52.8	1	0.94
54	516 Lacaille	7.0	2	1	39	58.39	151	42	9.2	2	0.88
55		9.4	1	1	46	9.24	148	57	57.1	1	0.85
56	V Piscium Var. 5	10.0	1	1	47	7.59	81	53	9.4	1	0.91
57	6 Arctis β	2.7		1	47	7.90	69	51	31.7	7	0.88
58		9.3	2	1	48	32.81	150	5	13.5	2	0.89
59	582 Lacaille	8.1	1	1	50	54.77	145	44	21.5	1	0.94
60	593 Lacaille	8.0		1	52	2.53	149	8	13.6	1	0.01
61		9.0	2	1	54	52.52	130	55	41.8	2	0.85
62	673 Taylor	6.0	1	1	56	15.31	72	24	8.3	1	0.86
63		9.3	2	1	59	23.52	150	2	31.5	2	0.89
64	13 Arctis α	2.0		1	59	30.67	67	10	53.2	7	0.89
65	697 Taylor	6.7	1	2	1	45.88	145	43	57.4	1	0.01
66		9.3	2	2	1	55.01	130	2	28.3	2	0.81
67	677 Lacaille	8.0	1	2	6	55.77	149	47	35.4	1	0.81
68		9.7	1	2	6	53.76	148	39	29.4	1	0.82
69	754 Taylor	8.9	2	2	9	11.75	147	53	53.7	2	0.46
70	67 Ceti	6.0		2	10	12.05	97	3	2.8	7	0.91

37—Used with Mars in opposition in 1862 for investigation of the constant of Solar Parallax
56.—V Piscium Var. 5. — Supposed to vary between 6th and 9th magnitude.

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>				
36	29 Ceti	+ 3 0800	+ 0 0058	+ 0 010	- 19 349	+ 0 126	+ 0 46	324
37	33 Ceti	+ 3 0830	+ 0 0062	- 0 003	- 19 288	+ 0 181	+ 0 02	344
38	86 Piscium ζ (1st)	+ 3 1181	+ 0 0090	+ 0 008	- 19 213	+ 0 139	+ 0 07	368
39	1 Urs Min α (<i>Polaris</i>)	+ 18 8156	+ 12 6804	+ 0 065	- 19 145	+ 0 825	0 00	360
40		+ 3 0217	+ 0 0028		- 18 933	+ 0 153		
41	45 Ceti θ^1	+ 3 0029	+ 0 0018	- 0 007	- 18 928	+ 0 154	+ 0 22	420
42		+ 2 2467	- 0 0173		- 18 879	+ 0 119		
43		+ 3 0909	+ 0 0073		- 18 740	+ 0 169		
44	99 Piscium η	+ 3 1976	+ 0 0142	0 000	- 18 717	+ 0 176	0 00	453
45		+ 2 2133	- 0 0148		- 18 668	+ 0 126		
46	514 Taylor	+ 3 2236	+ 0 0154		- 18 576	+ 0 185		477
47		+ 2 1694	- 0 0135		- 18 561	+ 0 128		
48		+ 2 6229	- 0 0101		- 18 432	+ 0 157		
49	α Eridani (<i>Achernar</i>)	+ 2 2323	- 0 0128	+ 0 008	- 18 439	+ 0 137	+ 0 07	507
50	106 Piscium ν	+ 3 1169	+ 0 0091	- 0 004	- 18 380	+ 0 191	- 0 04	518
51	503 Lacaille	+ 2 0654	- 0 0104		- 18 332	+ 0 130		
52	110 Piscium o	+ 3 1548	+ 0 0111	+ 0 006	- 18 241	+ 0 199	- 0 01	537
53		+ 2 0216	- 0 0089		- 18 229	+ 0 131		
54	516 Lacaille	+ 2 0228	- 0 0085		- 18 177	+ 0 133		543
55		+ 2 0792	- 0 0082		- 17 942	+ 0 144		
56	V Piscium ν Var. 5	+ 3 1580	+ 0 0111		- 17 904	+ 0 216		
57	6 Arctis β	+ 3 2930	+ 0 0183	+ 0 002	- 17 904	+ 0 226	+ 0 11	577
58		+ 2 0121	- 0 0067		- 17 847	+ 0 142		
59	582 Lacaille	+ 2 1588	- 0 0081		- 17 752	+ 0 155		
60	593 Lacaille	+ 2 0214	- 0 0061		- 17 705	+ 0 147		
61		+ 2 5151	- 0 0069		- 17 588	+ 0 134		
62	673 Taylor	+ 3 2781	+ 0 0167		- 17 530	+ 0 269		632
63		+ 1 9176	- 0 0031		- 17 395	+ 0 146		
64	13 Arctis α	+ 3 3523	+ 0 0203	+ 0 012	- 17 390	+ 0 252	+ 0 15	648
65	697 Taylor	+ 2 0777	- 0 0053		- 17 290	+ 0 161		659
66		+ 2 5022	- 0 0058		- 17 233	+ 0 192		
67	677 Lacaille	+ 1 8641	- 0 0011		- 17 057	+ 0 150		
68		+ 1 9169	- 0 0021		- 17 055	+ 0 154		
69	754 Taylor	+ 1 9296	- 0 0021		- 16 952	+ 0 157		
70	67 Ceti	+ 2 9831	+ 0 0049	+ 0 003	- 16 905	+ 0 242	+ 0 14	704

Mean Positions of Stars for 1864 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>					
71	68 Ceti σ Var 1 (<i>Mira</i>)	Var	3	2	12	28 68	93	35	52 2	3	0 54
72		8 0	1	2	16	23 72	151	18	24 7	1	0 93
73	818 Taylor	7 5	1	2	19	8 13	147	25	59 7	1	0 01
74		8 5		2	20	10 68	146	32	48 2	2	0 46
75	73 Ceti ξ^2	4 5		2	20	55 83	82	9	5 3	9	0 72
76	λ Horologii	6 0	1	2	21	6 12	150	55	20 6	1	0 93
77		8 2	1	2	24	27 94	147	2	45 3	1	0 95
78	782 Lacaille	7 4	2	2	26	13 19	148	24	55 0	2	0 44
79		9 5	1	2	29	10 94	147	37	29 6	1	0 91
80	31 Arctus	5 0	1	2	29	12 94	78	8	40 0	2	0 94
81		9 8	2	2	30	45 40	147	34	54 5	2	0 45
82		9 6	1	2	31	15 88	151	39	24 0	1	0 93
83	II 556 W B N	8 3	2	2	33	10 21	74	54	0 0	2	0 90
84		8 7	1	2	33	59 16	74	56	30 3	1	0 86
85	849 Lacaille (1st)	7 9	1	2	36	0 55	150	9	10 0	1	0 01
86	86 Ceti γ	3 7		2	36	15 35	87	20	22 6	8	0 69
87	38 Arctus	5 1	2	2	37	33 12	78	7	44 0	3	0 89
88	II 676 W B N	8 1	3	2	40	8 14	75	20	24 5	3	0 90
89	42 Arctus π	5 4	2	2	41	42 58	73	6	15 7	2	0 40
90		8 8	2	2	43	17 90	148	0	37 2	2	0 02
91	II 733 W B E	9 5	2	2	43	19 15	76	2	13 0	2	0 90
92		9 2	1	2	45	15 73	76	27	53 8	1	0 03
93	969 Taylor	7 5	2	2	45	37 49	74	4	28 3	2	0 89
94	87 Rumker	5 9	1	2	46	0 94	153	22	19 5	1	0 93
95	5380 Lalande	8 1	2	2	47	42 02	74	14	41 4	2	0 90
96	941 Lacaille	6 5	2	2	50	26 45	146	26	5 9	2	0 02
97		8 6	1	2	52	21 64	150	17	8 5	1	0 01
98		8 4	1	2	53	15 55	146	44	23 5	1	0 95
99	969 Lacaille	7 9	1	2	54	53 50	144	13	57 3	1	0 04
100	92 Ceti α (<i>Menkar</i>)	2 3		2	55	10 32	86	26	46 6	7	0 80
101	25 Persei ρ Var 2	4 0		2	56	23 54	51	41	23 1	1	0 01
102	1037 Taylor	9 2	2	2	56	54 10	150	21	34 7	2	0 03
103	26 Persei β Var 1 (<i>Algol</i>)	2 7		2	59	19 81	49	34	17 4	2	0 88
104	1047 Taylor	7 3	2	2	59	51 50	151	19	53 2	2	0 51
105	1052 Taylor	6 0	1	3	0	25 00	150	16	1 7	1	0 04

70 — σ Ceti Var 1 — (*Mira*) — Period 331 days Range, 2nd to 10th magnitude

83—88—91—93—95 — Comparison stars for Victoria in 1861

101 — ρ Persei Var 2 — Changes irregularly from 3 5 to 4 3 magnitude103 — β Persei Var 1 (*Algol*) — Period 2 867 days Range 2 5 to 4th magnitude

Observed with the Madras Meridian Circle in that Year

Number	St u	In Right Ascension			In Polar Distance			Number in B A C
		Annual Precession	Secular Variation	Proper Motion	Annual Precession	Secular Variation	Proper Motion	
		s	s	s				
71	68 Ceti σ Var 1	+ 3 0261	+ 0 0064	- 0 001	- 16 796	+ 0 248	+ 0 28	720
72		+ 1 7026	+ 0 0036		- 16 607	+ 0 146		
73	818 Taylor	+ 1 8778	- 0 0001		- 16 472	+ 0 163		753
74		+ 1 9102	- 0 0005		- 16 420	+ 0 187		
75	73 Ceti ζ^2	+ 3 1783	+ 0 0117	+ 0 001	- 16 382	+ 0 276	+ 0 02	760
76	λ Horologii	+ 1 6835	+ 0 0044		- 16 372	+ 0 149		762
77		+ 1 8565	+ 0 0008		- 16 201	+ 0 167		
78	782 Lacaille	+ 1 7769	+ 0 0026		- 16 110	+ 0 161		
79		+ 1 7943	+ 0 0024		- 15 954	+ 0 166		
80	81 Arietis	+ 3 2422	+ 0 0137	+ 0 017	- 15 952	+ 0 294	+ 0 09	798
81		+ 1 7848	+ 0 0027		- 15 870	+ 0 166		
82		+ 1 5524	+ 0 0084		- 15 843	+ 0 146		
83	Π 556 W B N	+ 3 2957	+ 0 0154		- 15 741	+ 0 305		
84		+ 3 2960	+ 0 0154		- 15 696	+ 0 306		
85	849 Lacaille (1st)	+ 1 6056	+ 0 0071		- 15 585	+ 0 154		
86	86 Ceti γ	+ 3 1112	+ 0 0094	- 0 011	- 15 572	+ 0 294	+ 0 19	837
87	38 Arietis	+ 3 2505	+ 0 0137	+ 0 008	- 15 500	+ 0 308	+ 0 10	844
88	Π 676 W B N	+ 3 2971	+ 0 0150		- 15 355	+ 0 315		
89	42 Arietis π	+ 3 3355	+ 0 0163	- 0 002	- 15 266	+ 0 322	- 0 02	870
90		+ 1 6728	+ 0 0057		- 15 176	+ 0 167		
91	Π 733 W B E	+ 3 2895	+ 0 0146		- 15 174	+ 0 320		
92		+ 3 2846	+ 0 0144		- 15 063	+ 0 322		
93	969 Taylor	+ 3 3244	+ 0 0157		- 15 042	+ 0 326		892
94	87 Bunkor	+ 1 3050	+ 0 0158		- 15 019	+ 0 182		895
95	5380 Lalande	+ 3 3241	+ 0 0156		- 14 921	+ 0 330		
96	941 Lacaille	+ 1 7078	+ 0 0053		- 14 760	+ 0 175		
97		+ 1 4716	+ 0 0107		- 14 646	+ 0 153		
98		+ 1 6736	+ 0 0060		- 14 592	+ 0 174		
99	969 Lacaille	+ 1 7893	+ 0 0040		- 14 494	+ 0 186		
100	92 Ceti α	+ 3 1294	+ 0 0098	- 0 002	- 14 476	+ 0 323	+ 0 11	949
101	25 Persei ρ Var 2	+ 3 8074	+ 0 0332	+ 0 010	- 14 398	+ 0 393	+ 0 11	953
102	1037 Taylor	+ 1 4332	+ 0 0116		- 14 372	+ 0 152		
103	Persei β Var 1	+ 3 8749	+ 0 0356	- 0 002	- 14 222	+ 0 405	- 0 01	963
104	1047 Taylor	+ 1 3441	+ 0 0139		- 14 190	+ 0 145		968
105	1052 Taylor	+ 1 4138	+ 0 0120		- 14 155	+ 0 152		972

71 - 80 - 101 - Proper Motions from Mr Stone's list Vol 33 *Memoirs R A S*
 75 - Proper Motions adopted from *Greenwich Catalogue*

Mean Positions of Stars for 1864 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>					
106	33 R P L	5.8		3	0	42 11	5	34	52 8	1	0.42
107	57 Arctis δ	4.2		3	3	51 34	70	47	26 0	9	0.92
108	1007 Lacaille	7.0	1	3	4	48 78	152	14	28 7	1	0.05
109	1092 Taylor	6.9	3	3	7	15 56	148	19	20 4	3	0.33
110		9.0	1	3	7	16 15	145	40	32 5	1	0.95
111		8.6	1	3	12	41 14	180	50	15 5	1	0.08
112	33 Persei α	2.3		3	14	37 57	40	37	34 5	3	0.92
113		9.0	1	3	14	51 02	150	6	18 7	1	0.04
114	3 Reticuli	6.1	2	3	15	15 71	153	1	38 0	2	0.06
115		7.8	1	3	20	18 17	149	18	56 3	1	0.01
116		7.4	2	3	20	34 35	149	28	29 8	2	0.04
117		7.5	1	3	22	00 3	88	12	26 3	1	0.02
118	34 R P L	5.9		3	22	16 24	3	47	27 2	3	0.62
119	1143 Lacaille	5.7	1	3	27	0 67	153	25	6 5	2	0.05
120	1150 Lacaille	7.7	1	3	28	25 56	152	28	17 6	1	0.95
121	1159 Lacaille	6.9	2	3	30	16 33	151	28	32 9	2	0.06
122	1192 Lacaille	8.5	1	3	34	58 48	147	43	46 9	1	0.03
123	1193 Lacaille	8.1	1	3	35	15 49	146	35	14 0	1	0.01
124	1200 Lacaille	6.9	1	3	36	24 39	146	40	30 9	2	0.05
125	17 Tauri (<i>Electra</i>)	4.0		3	36	48 28	66	18	59 2	1	0.01
126	25 Tauri η (<i>Alcyone</i>)	3.5		3	39	24 23	66	19	7 3	11	0.76
127	1318 Taylor	5.6	2	3	42	30 15	155	14	8 4	2	0.06
128		9.0	1	3	45	11 82	76	27	48 7	1	0.90
129		8.8	2	3	46	32 38	146	33	39 1	2	0.02
130		8.3	2	3	48	3 74	150	50	16 6	2	0.02
131	34 Eridani γ^1	3.3		3	51	41 12	103	53	52 6	8	0.71
132	35 Tauri λ Var 1	6.3	1	3	53	8 92	77	53	48 7	1	0.08
133		7.9	1	3	53	40 29	143	8	23 6	1	0.01
134	1327 Lacaille	5.9	3	3	54	18 85	153	51	28 4	3	0.35
135	36 Tauri	6.5	7	3	56	13 80	66	16	18 9	10	0.94
136	37 Tauri A ¹	4.7		3	56	39 51	63	17	36 3	1	0.79
137	1347 Lacaille	7.0	2	3	58	6 87	149	2	34 8	2	0.03
138	1359 Lacaille	9.2	2	4	0	0 71	147	50	4 2	2	0.04
139	1375 Lacaille	9.0	2	4	2	54 37	143	50	45 8	2	0.06
140		9.8	1	4	3	23 80	68	30	18 3	1	0.08

106—595 Groombridge

115—642 Groombridge

132— λ Tauri Var 1—Period 3.95 days—Range 3.5 to 4.3 magnitude

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>				
106	33 R P L	+ 12 7777	+ 1 5817		- 14 138	+ 1 328	+ 0 12	960
107	57 Arctus δ	+ 3 4069	+ 0 0171	+ 0 010	- 13 940	+ 0 364	0 00	986
108	1007 Lacaille	+ 1 2385	+ 0 0169		- 13 890	+ 0 136		
109	1092 Taylor	+ 1 4920	+ 0 0100		- 13 724	+ 0 165		1002
110		+ 1 6442	+ 0 0069		- 13 724	+ 0 181		
111		+ 2 2110	+ 0 0012		- 13 375	+ 0 246		
112	33 Persi α	+ 4 2420	+ 0 0433	+ 0 002	- 13 248	+ 0 472	+ 0 05	1043
113		+ 1 3244	+ 0 0138		- 13 233	+ 0 151		
114	5 ^a Reticuli	+ 1 0943	+ 0 0203	+ 0 190	- 13 206	+ 0 126	- 0 65	1051
115		+ 1 3442	+ 0 0131		- 12 870	+ 0 156		
116		+ 1 3314	+ 0 0133		- 12 853	+ 0 155		
117		+ 3 1043	+ 0 0089		- 12 757	+ 0 355		
118	34 R P L	+ 18 6475	+ 3 1896	+ 0 136	- 12 739	+ 2 105	+ 0 06	1061
119	1143 Lacaille	+ 0 9736	+ 0 0227		- 12 415	+ 0 117		1103
120	1150 Lacaille	+ 1 0476	+ 0 0203		- 12 317	+ 0 126		
121	1159 Lacaille	+ 1 1186	+ 0 0180		- 12 190	+ 0 135		
122	1192 Lacaille	+ 1 3647	+ 0 0120		- 11 861	+ 0 165		
123	1193 Lacaille	+ 1 4364	+ 0 0105		- 11 841	+ 0 174		
124	1200 Lacaille	+ 1 4248	+ 0 0107		- 11 759	+ 0 173		
125	17 Tauri (<i>Electra</i>)	+ 3 5478	+ 0 0180	0 000	- 11 731	+ 0 424	+ 0 04	1147
126	25 Tauri η (<i>Alcyone</i>)	+ 3 5515	+ 0 0177	- 0 001	- 11 546	+ 0 430	+ 0 06	1166
127	1318 Taylor	+ 0 6800	+ 0 0294	+ 0 050	- 11 323	+ 0 037	- 0 06	1197
128		+ 3 3399	+ 0 0124		- 11 128	+ 0 410		
129		+ 1 3811	+ 0 0111		- 11 029	+ 0 173		
130		+ 1 0623	+ 0 0177		- 10 918	+ 0 135		
131	34 Eridani γ^1	+ 2 7917	+ 0 0047	+ 0 002	- 10 652	+ 0 351	+ 0 12	1234
132	35 Tauri λ Var 1	+ 3 3160	+ 0 0115	- 0 002	- 10 542	+ 0 416	+ 0 02	1241
133		+ 1 5529	+ 0 0082		- 10 503	+ 0 198		
134	1327 Lacaille	+ 0 7474	+ 0 0250		- 10 455	+ 0 097		1248
135	36 Tauri	+ 3 5761	+ 0 0164	+ 0 002	- 10 312	+ 0 451	- 0 01	1253
136	37 Tauri A ¹	+ 3 5292	+ 0 0153	+ 0 004	- 10 280	+ 0 446	+ 0 09	1257
137	1347 Lacaille	+ 1 1510	+ 0 0143		- 10 170	+ 0 149		
138	1359 Lacaille	+ 1 2310	+ 0 0131		- 10 027	+ 0 160		
139	1375 Lacaille	+ 1 1429	+ 0 0144		- 9 806	+ 0 149		
140		+ 3 5319	+ 0 0147		- 9 765	+ 0 454		

106 — The Proper Motion in Polar Distance taken from *Greenwich Catalogue*114 — 127 — Proper Motions adopted from *Stones Catalogue*118 — 132 — 135 — Proper Motions adopted from *Greenwich Catalogue*

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Distinctions	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
141	87 Erldam	5 6	1	4	3	44 58	97	16	55 3	1	0 01
142		8 8	2	4	5	0 17	150	5	32 6	2	0 02
143	38 Erldam α^1	4 3		4	5	13 65	97	11	41 4	3	0 34
144		8 5	2	4	9	13 70	149	31	0 8	2	0 05
145		8 0	1	4	9	46 60	129	18	57 0	1	0 89
146	1489 Faylor	7 1	2	4	11	2 66	148	22	0 2	2	0 02
147	1425 Lacaille	6 2	2	4	13	1 31	152	32	3 0	2	0 06
148	U Tauri Var 7	9 7	1	4	13	53 65	70	30	42 4	1	0 90
149	T Tauri Var 6	10 4	2	4	14	3 84	70	47	26 0	2	0 08
150	ϵ Retioul	5 0	2	4	14	8 75	140	37	48 2	2	0 03
151	1513 Taylor	6 7	2	4	14	18 26	151	17	2 7	2	0 49
152	61 Tauri δ	4 0		4	15	5 61	72	46	48 3	3	0 30
153	62 Tauri	7 0		4	15	47 90	66	1	11 1	2	0 97
154		8 8	1	4	16	45 55	149	4	26 5	1	0 01
155	69 Tauri ν^1	4 5		4	18	10 38	67	29	55 5	7	0 94
156	74 Tauri ϵ	8 7		4	20	40 69	71	7	29 4	13	0 33
157	R Tauri Var 2	9 9	2	4	20	51 07	80	8	37 7	2	0 08
158		10 2	2	4	22	21 67	80	21	14 7	2	0 49
159	1582 Taylor	6 0	1	4	23	12 66	151	32	49 3	1	0 06
160	1519 Lacaille	8 2	2	4	25	35 42	153	6	6 6	2	0 07
161	1520 Lacaille	8 4	2	4	26	41 07	147	29	2 4	2	0 47
162	87 Tauri α (<i>Aldebaran</i>)	1 0		4	28	7 16	73	46	3 6	9	0 34
163	R Retioul Var 1	8 5	1	4	32	8 35	153	18	40 4	1	0 11
164	IV 696 W B N	9 2	4	4	32	36 03	66	27	30 2	4	0 96
165		8 5	2	4	33	32 41	144	53	50 2	2	0 04
166	IV 726 W B N	8 1	3	4	33	50 93	66	15	17 4	6	0 93
167	94 Tauri τ	4 7		4	34	5 05	67	18	27 6	7	0 93
168	95 Tauri	6 5	1	4	35	0 01	66	10	22 0	1	0 89
169	1567 Lacaille	5 8	3	4	35	11 17	152	20	47 0	3	0 07
170	1566 Lacaille	7 8	1	4	35	46 00	148	23	26 3	1	0 01
171	1663 Taylor	7 9	1	4	36	50 08	138	48	8 3	1	0 04
172	1582 Lacaille	8 5	2	4	37	18 61	152	38	43 4	2	0 06
173		9 3	2	4	40	19 23	151	20	52 6	2	0 06
174	κ Doradus	6 3	3	4	42	18 43	149	59	0 6	3	0 05
175	1629 Lacaille	6 5	2	4	43	42 96	153	28	32 7	2	0 07

148 — U Tauri Var 7 — Period unknown — Range 9th to 10 5 magnitude

149 — T Tauri Var 6 — Period unknown — Range 9th to 13th magnitude

157 — R Tauri Var 2 — Period 325 days — Range 8th magnitude to invisibility

163 — R Retioul Var 1 — Period 281 days — Range 7th magnitude to invisibility

164—166 — Comparison stars used with Mars in 1864 for investigation of the constant of Solar Parallax

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	
		s	s	s				
141	37 Eridani	+ 2 9228	+ 0 0058	- 0 002	- 9 743	+ 0 377	+ 0 04	1284
142		+ 1 0343	+ 0 0165		- 9 640	+ 0 136		
143	38 Eridani α^1	+ 2 9240	+ 0 0058	- 0 002	- 9 629	+ 0 379	- 0 07	1290
144		+ 1 0603	+ 0 0155		- 9 313	+ 0 141		
145		+ 2 1015	+ 0 0035		- 9 278	+ 0 276		
146	1489 Taylor	+ 1 1423	+ 0 0137		- 9 180	+ 0 152		1325
147	1425 Lacaille	+ 0 7752	+ 0 0210		- 9 025	+ 0 105		
148	U Tauri Var 7	+ 3 4955	+ 0 0129		- 8 957	+ 0 460		
149	T Tauri Var 6	+ 3 4891	+ 0 0128		- 8 944	+ 0 460		
150	ϵ Reticuli	+ 1 0296	+ 0 0155		- 8 937	+ 0 139		1344
151	1513 Taylor	+ 0 8866	+ 0 0182		- 8 925	+ 0 120		1345
152	61 Tauri δ^1	+ 3 4438	+ 0 0119	+ 0 004	- 8 863	+ 0 455	+ 0 03	1346
153	62 Tauri	+ 3 6064	+ 0 0146	+ 0 004	- 8 807	+ 0 477	+ 0 01	1353
154		+ 1 0630	+ 0 0146		- 8 731	+ 0 144		
155	69 Tauri ν	+ 3 5722	+ 0 0138	+ 0 007	- 8 620	+ 0 475	+ 0 05	1367
156	74 Tauri ϵ	+ 3 4869	+ 0 0120	+ 0 005	- 8 422	+ 0 466	+ 0 03	1376
157	R Tauri Var 2	+ 3 2830	+ 0 0092		- 8 408	+ 0 439		
158		+ 3 2790	+ 0 0090		- 8 287	+ 0 440		
159	1582 Taylor	+ 0 8200	+ 0 0183		- 8 220	+ 0 113		1400
160	1519 Lacaille	+ 0 6570	+ 0 0212		- 8 030	+ 0 091		
161	1520 Lacaille	+ 1 1462	+ 0 0122		- 7 942	+ 0 157		
162	87 Tauri α (<i>Aldebaran</i>)	+ 3 4303	+ 0 0105	+ 0 004	- 7 327	+ 0 464	+ 0 17	1420
163	R Reticuli Var 1	+ 0 6055	+ 0 0210		- 7 502	+ 0 035		
164	IV 696 W B N	+ 3 6128	+ 0 0127		- 7 465	+ 0 493		
165		+ 1 3037	+ 0 0096		- 7 388	+ 0 180		
166	IV 726 W B N	+ 3 6192	+ 0 0127		- 7 363	+ 0 494		
167	94 Tauri τ	+ 3 5924	+ 0 0122	0 000	- 7 343	+ 0 491	+ 0 02	1440
168	95 Tauri	+ 3 6224	+ 0 0125	+ 0 004	- 7 269	+ 0 495	0 00	1453
169	1567 Lacaille	+ 0 6931	+ 0 0186		- 7 254	+ 0 097		
170	1566 Lacaille	+ 1 0381	+ 0 0128		- 7 207	+ 0 144		
171	1663 Taylor	+ 1 6441	+ 0 0059		- 7 119	+ 0 227		
172	1552 Lacaille	+ 0 6541	+ 0 0189		- 7 080	+ 0 092		1466
173		+ 0 7715	+ 0 0163		- 6 833	+ 0 109		
174	κ Doradus	+ 0 8896	+ 0 0141		- 6 669	+ 0 125		1489
175	1629 Lacaille	+ 0 5403	+ 0 0197		- 6 553	+ 0 077		

Mean Positions of Stars for 1864 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>					
176	IV 995 W B N	80	8	4	45	6 56	66	3	9 8	9	0 93
177		88	1	4	45	55 56	153	4	2 2	1	0 11
178	IV 1018 W B N	82	5	4	45	58 67	66	13	39 4	9	0 94
179	1656 Lacaille	79	3	4	47	56 06	149	2	1 1	3	0 05
180	3 Aurigæ ϵ	35		4	48	8 45	57	3	11 6	8	0 07
181	99 Tauri	65		4	49	33 67	66	16	3 5	6	0 89
182	1761 Taylor	71	1	4	49	59 57	129	18	38 7	1	0 08
183	1780 Taylor	75	1	4	52	15 36	144	38	49 0	1	0 02
184		90	1	4	52	18 70	129	39	52 4	1	0 01
185		91	1	4	52	40 71	150	37	52 6	1	0 95
186	1797 Taylor	68	2	4	54	51 40	148	16	57 6	2	0 04
187	102 Tauri ϵ	50	1	4	54	58 18	68	36	28 7	2	0 12
188	1697 Lacaille	87	1	4	56	51 21	129	7	11 5	1	0 09
189	1811 Taylor	60	1	4	57	2 80	129	55	3 5	1	0 05
190	1705 Lacaille	79	2	4	57	25 61	129	16	38 4	3	0 36
191	104 Tauri m	55		4	59	24 97	71	32	28 9	1	0 13
192	2 Leporis ϵ	40		4	59	42 22	112	33	22 4	5	0 08
193	103 Tauri	60		4	59	49 42	65	55	7 0	4	0 89
194	1739 Lacaille	86	2	5	2	51 11	146	57	53 7	2	0 50
195	13 Aurigæ α (Capella)	10		5	6	38 75	44	8	40 3	2	0 07
196	19 Orionis β (Rigel)	10		5	8	0 14	98	21	42 4	7	0 20
197		91	2	5	8	29 42	150	36	20 8	2	0 06
198		94	2	5	10	55 61	129	48	31 7	2	0 94
199		79	1	5	13	25 19	153	41	44 1	2	0 06
200		80	1	5	14	50 32	153	29	22 4	1	0 12
201		84	2	5	17	37 79	153	7	20 0	2	0 07
202	112 Tauri β	20		5	17	41 80	61	30	41 7	3	0 37
203	40 R P L	62		5	18	45 12	4	53	3 4	1	0 46
204	1984 Taylor	76	2	5	18	51 34	150	54	50 5	2	0 07
205		90	1	5	19	4 78	148	14	18 4	1	0 09
[4566] 206		93	1	5	19	48 66	131	3	54 0	1	0 05
207		102	2	5	21	42 40	59	41	0 5	2	0 08
208		74	2	5	22	35 25	152	42	6 3	2	0 09
209	λ Doradus	61	2	5	24	20 55	149	1	43 8	2	0 49
210	34 Orionis δ Var 1	20		5	25	3 60	90	24	9 8	3	0 08

176—178—Stars used with Mars in 1864 for investigation of the constant of Solar Parallax

203—944 Groombridge

207—Observed by mistake for the planet Ansonia

210— δ Orionis Var 1—Supposed to vary irregularly between 2.2 and 2.7 magnitude

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	
		s	s	s				
176	IV 995 W B N	+ 3 6845	+ 0 0114		- 6 437	+ 0 505		
177		+ 0 5767	+ 0 0186		- 6 370	+ 0 083		
178	IV 1018 W B N	+ 3 6306	+ 0 0113		- 6 365	+ 0 505		
179	1656 Lacaille	+ 0 9532	+ 0 0124		- 6 202	+ 0 135		
180	3 Aurigæ ϵ	+ 3 8962	+ 0 0144	- 0 003	- 6 186	+ 0 544	+ 0 02	1520
181	99 Tauri	+ 3 6324	+ 0 0109	+ 0 004	- 6 067	+ 0 508	+ 0 03	1527
182	1761 Taylor	+ 2 0280	+ 0 0036		- 6 031	+ 0 285		
183	1780 Taylor	+ 1 2692	+ 0 0084		- 5 842	+ 0 180		
184		+ 2 0115	+ 0 0038		- 5 837	+ 0 284		
185		+ 0 7980	+ 0 0139		- 5 807	+ 0 113		
186	1797 Taylor	+ 0 9956	+ 0 0111		- 5 624	+ 0 141		
187	102 Tauri ϵ	+ 3 5749	+ 0 0095	+ 0 004	- 5 614	+ 0 503	+ 0 06	1551
188	1697 Lacaille	+ 2 0258	+ 0 0036		- 5 456	+ 0 286		
189	1811 Taylor	+ 1 9954	+ 0 0038		- 5 439	+ 0 282		1561
190	1705 Lacaille	+ 2 0192	+ 0 0037		- 5 408	+ 0 286		
191	104 Tauri m	+ 3 5028	+ 0 0033	+ 0 040	- 5 240	+ 0 495	- 0 02	1568
192	2 Leporis ϵ	+ 2 5357	+ 0 0033	+ 0 001	- 5 215	+ 0 359	+ 0 08	1575
193	103 Tauri	+ 3 6492	+ 0 0097	0 000	- 5 206	+ 0 516	- 0 05	1572
194	1739 Lacaille	+ 1 0795	+ 0 0038		- 4 949	+ 0 155		
195	13 Aurigæ α (<i>Capella</i>)	+ 4 4123	+ 0 0173	+ 0 008	- 4 627	+ 0 629	+ 0 43	1613
196	19 Orionis β (<i>Rigel</i>)	+ 2 8805	+ 0 0040	- 0 001	- 4 511	+ 0 412	+ 0 02	1623
197		+ 0 7534	+ 0 0117		- 4 470	+ 0 110		
198		+ 1 9832	+ 0 0036		- 4 262	+ 0 285		
199		+ 0 4231	+ 0 0144		- 4 048	+ 0 062		
200		+ 0 4437	+ 0 0138		- 3 927	+ 0 065		
201		+ 0 4790	+ 0 0128		- 3 686	+ 0 070		
202	112 Tauri β	+ 3 7853	+ 0 0082	+ 0 003	- 3 681	+ 0 545	+ 0 20	1681
203	40 R P L	+ 18 4661	+ 0 6873		- 3 590	+ 2 652		1662
204	1984 Taylor	+ 0 7072	+ 0 0104		- 3 581	+ 0 103		1697
205		+ 0 9468	+ 0 0084		- 3 562	+ 0 138		
206		+ 1 9251	+ 0 0035		- 3 503	+ 0 279		
207		+ 3 8430	+ 0 0081		- 3 336	+ 0 554		
208		+ 0 5160	+ 0 0113		- 3 260	+ 0 075		
209	λ Doradus	+ 0 8713	+ 0 0081		- 3 108	+ 0 127		1729
210	34 Orionis δ Var 1	+ 3 0627	+ 0 0038	+ 0 001	- 3 046	+ 0 443	+ 0 04	1730

181—193 —Proper motions adopted from *Greenwich Catalogue*192 —Proper motions from Mr Stone's list *Vol 33 Memoirs R A S*

Mean Positions of Stars for 1864 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>					
211	11 Leporis α	3 0		5	26	44 02	107	55	20 2	2	0 53
212	46 Orionis ϵ	2 0		5	29	18 85	91	17	31 1	5	0 10
213	123 Tauri 3	3 5		5	29	31 12	68	56	40 1	4	0 50
214		7 0	1	5	30	59 44	150	13	2 9	2	0 50
215	1949 Lacaille	6 2	1	5	32	15 80	154	19	4 4	1	0 06
216		8 6	2	5	32	42 45	150	11	35 4	3	0 37
217	α Columbæ	2 0		5	34	43 52	124	8	5 3	6	0 24
218	2113 Taylor	8 5	1	5	35	8 22	130	45	30 4	1	0 01
219	1971 Lacaille	7 1	2	5	36	21 47	149	11	31 8	2	0 07
220		9 6	1	5	36	43 56	129	57	50 9	1	0 07
221	2184 Taylor	9 1	2	5	43	54 50	150	46	24 6	2	0 54
222		9 1	2	5	44	9 53	152	58	2 5	2	0 07
223	54 Orionis χ^1	5 0		5	46	19 70	69	45	11 8	2	0 90
224	58 Orionis α Var 1	1 0		5	47	48 60	82	37	17 7	4	0 51
225		9 4	2	5	49	28 43	63	50	12 9	2	0 54
226		9 7	1	5	49	36 33	130	1	18 6	1	0 09
227	43 R P L	6 6		5	52	0 00	3	14	22 0	1	0 61
228		9 0	1	5	52	41 05	129	32	33 9	1	0 05
229		8 8	1	5	53	1 65	130	24	59 2	1	0 97
230	64 Orionis χ^3	5 7		5	55	24 37	70	18	40 8	2	0 13
231	62 Orionis χ^4	5 0	1	5	55	50 ⁴⁷ 32	69	51	42 9	1	0 11
232	2301 Taylor	6 5	1	5	58	29 56	143	6	17 9	1	0 09
233	2310 Taylor	6 8	2	5	59	37 53	150	29	6 8	2	0 02
234	67 Orionis ν	5 0		5	59	48 47	75	13	8 0	6	0 25
235		8 8	1	6	2	21 04	153	44	39 2	1	0 12
236		9 5	2	6	8	35 03	155	3	30 6	2	0 54
237		9 5	1	6	8	53 37	130	31	33 4	1	0 09
238		9 6	1	6	10	6 15	153	14	23 0	1	0 17
239		7 0	2	6	11	2 53	149	53	51 5	2	0 06
240		8 8	1	6	11	43 04	152	1	49 0	2	0 14
241	13 Geminorum μ	3 3		6	14	43 93	67	25	14 6	8	0 41
242	2273 Lacaille	8 0	2	6	17	3 66	153	53	24 9	2	0 17
243	2286 Lacaille	7 0	2	6	13	43 23	153	45	43 4	2	0 14
244	α Argus (<i>Canopus</i>)	1 0		6	20	55 99	142	37	20 3	3	0 07
245		8 5	2	6	22	6 37	123	43	41 3	2	0 11

224 - α Orionis Var 2 (*Betelgeuse*) - Irregularly variable from 1 0 to 1 5 magnitude

227 - 1004 Groombridge

[5067]

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	
		s	s	s				
211	11 Leporis α	+ 2 6441	+ 0 0029	+ 0 001	- 2 901	+ 0 388	0 00	1741
212	46 Orionis ϵ	+ 3 0421	+ 0 0035	- 0 002	- 2 678	+ 0 441	+ 0 01	1765
213	123 Tauri 3	+ 3 5823	+ 0 0055	0 000	- 2 660	+ 0 519	+ 0 05	1767
214		+ 0 7546	+ 0 0079		- 2 532	+ 0 110		
215	1949 Lacaille	+ 0 3121	+ 0 0106		- 2 421	+ 0 046		1790
216		+ 2 7547	+ 0 0076		- 2 382	+ 0 110		
217	α Columbæ	+ 2 1706	+ 0 0027	+ 0 008	- 2 208	+ 0 316	0 00	1802
218	2113 Taylor	+ 1 9264	+ 0 0081		- 2 172	+ 0 280		
219	1971 Lacaille	+ 0 8418	+ 0 0066		- 2 065	+ 0 123		
220		+ 1 9573	+ 0 0030		- 2 033	+ 0 285		
221	2184 Taylor	+ 0 6883	+ 0 0059		- 1 407	+ 0 101		
222		+ 0 4578	+ 0 0067		- 1 385	+ 0 068		
223	54 Orionis χ^1	+ 3 5644	+ 0 0034	- 0 016	- 1 196	+ 0 520	+ 0 10	1876
224	58 Orionis α Var 2	+ 3 2449	+ 0 0027	+ 0 001	- 1 066	+ 0 473	0 00	1883
225		+ 3 7282	+ 0 0031		- 0 919	+ 0 543		
226		+ 1 9504	+ 0 0027		- 0 909	+ 0 284		
227	43 R P L	+ 26 6889	+ 0 2935		- 0 699	+ 3 889		1879
228		+ 1 9688	+ 0 0026		- 0 640	+ 0 287		
229		+ 1 9341	+ 0 0026		- 0 610	+ 0 282		
230	64 Orionis χ^3	+ 3 5503	+ 0 0022	+ 0 010	- 0 402	+ 0 518	+ 0 03	1934
231	62 Orionis χ^4	+ 3 5623	+ 0 0022	0 000	- 0 364	+ 0 519	+ 0 02	1939
232	2301 Taylor	+ 0 9235	+ 0 0030		- 0 131	+ 0 135		1954
233	2310 Taylor	+ 0 7104	+ 0 0030		- 0 083	+ 0 104		
234	67 Orionis ν	+ 3 4243	+ 0 0017	+ 0 001	- 0 017	+ 0 500	+ 0 02	1958
235		+ 0 3614	+ 0 0025		+ 0 205	+ 0 053		
236		+ 0 1993	+ 0 0005		+ 0 750	+ 0 020		
237		+ 1 9300	+ 0 0021		+ 0 777	+ 0 281		
238		+ 0 4232	+ 0 0006		+ 0 883	+ 0 062		
239		+ 0 7686	+ 0 0010		+ 0 996	+ 0 112		
240		+ 0 5576	+ 0 0005		+ 1 025	+ 0 081		
241	13 Gemmorum μ	+ 3 6268	- 0 0003	+ 0 005	+ 1 288	+ 0 527	+ 0 14	2047
242	2273 Lacaille	+ 0 3416	- 0 0014		+ 1 492	+ 0 049		
243	2286 Lacaille	+ 0 3686	- 0 0017		+ 1 643	+ 0 053		2078
244	α Argûs (<i>Canopus</i>)	+ 1 3292	+ 0 0010	0 000	+ 1 330	+ 0 192	0 00	2096
245		+ 2 0017	+ 0 0018		+ 1 931	+ 0 290		

217—223—230—231—234—Proper Motions adopted from *Greenwich Catalogue*
 214—Proper Motions adopted from *Stone's Catalogue*

Mean Positions of Stars for 1864 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>					
246	2312 Lacaille	73	1	6	22	8 95	153	36	33 9	1	0 18
247	2524 Taylor	72	1	6	23	27 42	131	3	3 0	1	0 09
248	2541 Taylor	64	2	6	24	54 97	147	54	59 3	2	0 07
249		90	2	6	27	30 56	152	27	51 6	2	0 13
250		90	2	6	27	45 52	131	5	17 0	2	0 10
251		90	2	6	28	24 30	130	55	47 3	2	0 11
252		86	2	6	28	39 22	151	10	1 3	2	0 17
253	24 Geminorum γ	25		6	29	51 26	73	29	18 1	9	0 31
254		88	1	6	33	33 10	152	27	3 8	1	0 19
255		77	1	6	34	30 70	130	27	55 6	1	0 09
256	51 Cephei (<i>Hϵv</i>)	53		6	35	39 16	2	45	19 4	15	0 26
257	2652 Taylor	70	2	6	36	32 33	151	24	49 6	2	0 11
258		93	1	6	37	53 05	153	20	37 4	1	0 18
259	2667 Taylor	81	1	6	33	22 76	148	59	39 8	1	0 18
260		86	1	6	39	7 42	131	3	25 0	1	0 17
261	9 Canis Majoris α (<i>Sirius</i>)	1 0		6	39	9 21	106	31	56 6	3	0 09
262		84	3	6	40	29 47	131	2	27 1	3	0 17
263	2724 Taylor	86	2	6	44	53 34	144	36	1 6	2	0 20
264		96	2	6	46	32 31	130	10	6 9	2	0 15
265	α Pictoris	5 0	2	6	46	47 53	151	47	46 1	2	0 11
[46 59 20]	266	2500 Lacaille	79	2	6	47 ⁶ 0 05	130	23	20 6	2	0 12
	267	2532 Lacaille	68	3	6	48 12 37	150	5	32 5	3	0 18
	268		93	2	6	48 50 56	130	10	17 0	2	0 15
	269		90	1	6	49 43 02	129	8	19 7	1	0 09
	270		107	2	6	50 25 38	75	17	25 1	2	0 08
	271	21 Canis Majoris ϵ	17		6	53 16 39	118	47	21 4	7	0 11
	272		90	3	6	53 47 30	129	47	31 5	3	0 15
	273	3 Geminorum (1st)	6 2	1	6	56 1 73	69	12	23 9	1	0 09
	274	43 Geminorum ν Var 1	4 3		6	56 2 43	69	14	1 9	5	0 09
	275	2825 Taylor	8 9	2	6	56 52 03	150	54	38 0	2	0 13
	276	23 Canis Majoris γ	4 5		6	57 36 31	105	26	5 5	4	0 12
	277		9 1	2	6	53 23 20	66	56	5 7	2	0 14
	278		9 0	1	6	59 11 30	66	59	54 9	1	0 18
	279		9 3	1	6	59 43 33	129	43	4 3	1	0 07
	280	2851 Taylor	7 8	2	7	0 49 31	145	44	48 1	2	0 19

270 — Observed by mistake for Pomona

274 — 3 Geminorum Var 1 — Period 10 16 days — Range 3 7 to 4 5 magnitude

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	2312 Lacaille	+ 0 3902	- 0 0025		+ 1 935	+ 0 056		
247	2524 Taylor	+ 1 9139	+ 0 0018		+ 2 049	+ 0 277		
248	2541 Taylor	+ 0 9520	- 0 0006		+ 2 176	+ 0 137		2124
249		+ 0 5260	- 0 0030		+ 2 401	+ 0 075		
250		+ 1 9148	+ 0 0016		+ 2 424	+ 0 276		
251		+ 1 9216	+ 0 0016		+ 2 479	+ 0 277		
252		+ 0 6624	- 0 0025		+ 2 501	+ 0 095		
253	24 Geminorum γ	+ 3 4650	- 0 0015	+ 0 001	+ 2 605	+ 0 500	+ 0 04	2168
254		+ 0 5864	- 0 0048		+ 2 925	+ 0 076		
255		+ 1 9445	+ 0 0015		+ 3 008	+ 0 279		
256	51 Ophi (Hev)	+ 30 5168	- 1 8259	- 0 027	+ 3 107	+ 4 396	+ 0 08	2157
257	2652 Taylor	+ 0 6495	- 0 0042		+ 3 185	+ 0 092		2208
258		+ 0 4451	- 0 0061		+ 3 300	+ 0 063		
259	2667 Taylor	+ 0 8785	- 0 0029		+ 3 343	+ 0 125		
260		+ 1 9244	+ 0 0014		+ 3 407	+ 0 276		
261	9 Canis Majoris α	+ 2 6808	+ 0 0010	- 0 035	+ 3 409	+ 0 384	+ 1 24	2218
262		+ 1 9270	+ 0 0013		+ 3 524	+ 0 275		
263	2724 Taylor	+ 1 2266	- 0 0014		+ 3 903	+ 0 173		
264		+ 1 9067	+ 0 0013		+ 4 045	+ 0 279		
265	α Pictoris	+ 0 6808	- 0 0063	- 0 010	+ 4 066	+ 0 088	- 0 18	2260
266	2500 Lacaille	+ 1 9585	+ 0 0012		+ 4 084	+ 0 278		
267	2532 Lacaille	+ 0 7990	- 0 0050		+ 4 188	+ 0 112		
268		+ 1 9689	+ 0 0012		+ 4 241	+ 0 279		
269		+ 2 0095	+ 0 0013		+ 4 316	+ 0 284		
270		+ 3 4146	- 0 0031		+ 4 373	+ 0 484		
271	21 Canis Majoris ϵ	+ 2 3571	+ 0 0013	0 000	+ 4 620	+ 0 332	+ 0 02	2298
272		+ 1 9890	+ 0 0012		+ 4 664	+ 0 280		
273	5 Geminorum (1st)	+ 3 5647	- 0 0050		+ 4 353	+ 0 503		
274	43 Geminorum δ Var 1	+ 3 5640	- 0 0050	- 0 001	+ 4 855	+ 0 503	+ 0 01	2305
275	2325 Taylor	+ 0 7426	- 0 0090		+ 4 925	+ 0 103		
276	23 Canis Majoris γ	+ 2 7144	+ 0 0005	+ 0 002	+ 4 988	+ 0 381	+ 0 01	2319
277		+ 3 6230	- 0 0058		+ 5 054	+ 0 509		
278		+ 3 6209	- 0 0059		+ 5 123	+ 0 509		
279		+ 1 9990	+ 0 0011		+ 5 176	+ 0 280		
280	2351 Taylor	+ 1 1774	- 0 0033		+ 5 261	+ 0 164		

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observation	Fraction of Year
				<i>h</i>	<i>m</i>	<i>s</i>					
281	R Canis Minoris Var 1	9.2	1	7	1	13.77	79	15	50.6	1	0.08
282	2882 Taylor	8.9	4	7	3	26.90	151	1	2.7	4	0.13
283		9.3	1	7	4	58.07	130	12	33.2	1	0.07
284	2899 Taylor	8.9	1	7	5	47.76	130	8	49.2	1	0.09
285		9.5	1	7	5	51.92	129	23	13.1	1	0.08
286	2678 Lacaille	8.5	1	7	6	10.50	148	9	13.1	1	0.18
287		8.2	1	7	6	38.61	129	2	11.0	1	0.07
288		9.3	2	7	7	59.43	118	46	1.9	2	0.07
289		8.9	2	7	8	9.13	152	5	1.8	2	0.12
290	2940 Taylor	9.0	1	7	9	27.96	129	57	41.1	1	0.08
291	54 Geminorum λ	4.3		7	10	16.45	73	13	3.6	3	0.16
292		9.8	1	7	10	16.60	131	52	8.3	1	0.07
293	55 Geminorum δ	3.5		7	11	59.93	67	46	15.7	10	0.12
294		9.2	1	7	18	1.19	129	15	59.3	1	0.07
295		8.7	1	7	14	30.70	138	40	35.4	1	0.07
296	3005 Taylor	8.7	2	7	15	23.80	140	0	54.3	2	0.19
297	2805 Lacaille	8.3	1	7	17	21.21	153	8	1.0	1	0.18
298		9.2	1	7	18	4.08	129	42	31.1	1	0.09
299	3043 Taylor	7.0	1	7	19	13.59	129	16	21.8	1	0.12
300		9.0		7	19	35.74	123	7	59.6	1	0.08
301	63 Geminorum	5.5	1	7	19	39.81	68	10	48.8	2	0.05
302	3054 Taylor	7.4	2	7	20	2.06	151	41	28.6	2	0.14
303		7.7	1	7	21	34.23	131	50	25.7	1	0.09
304	6 Canis Minoris	5.0		7	22	13.39	77	42	55.1	1	0.13
305		9.8	1	7	23	24.08	51	57	26.3	1	0.07
306		9.0	1	7	24	53.41	123	8	10.2	1	0.17
307	S Canis Minoris Var 2	8.3	1	7	25	20.43	81	23	41.7	1	0.08
308	68 Geminorum	5.4		7	25	50.63	73	53	3.7	4	0.36
309	66 Geminorum α (<i>Castor</i>)	1.7		7	25	55.06	57	49	1.8	3	0.14
310		8.9	1	7	26	5.18	142	5	53.7	1	0.04
311		9.0	3	7	26	43.29	123	7	22.5	3	0.13
312		9.3	1	7	27	13.25	153	10	42.2	1	0.18
313	3126 Taylor	7.1	1	7	29	34.20	143	15	44.3	1	0.09
314	10 Can Min α (<i>Procyon</i>)	1.0		7	32	10.86	84	25	46.3	7	0.15
315	2893 Lacaille	7.5	2	7	32	43.41	121	49	27.6	2	0.15

281—R Canis Minoris Var 1—Period 335 days—Range 7.5 to 11th magnitude

307—S Canis Minoris Var 2—Period 332 days—Range 8.5 magnitude to invisibility

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>				
281	R Canis Minoris Var 1	+ 3 3049	- 0 0081		+ 5 294	+ 0 463		
282	2882 Taylor	+ 0 7503	- 0 0090		+ 5 481	+ 0 108		
283		+ 1 9676	+ 0 0009		+ 5 609	+ 0 274		
284	2899 Taylor	+ 1 9905	+ 0 0010		+ 5 678	+ 0 277		
285		+ 2 0193	+ 0 0011		+ 5 685	+ 0 280		
286								
286	2678 Lacaille	+ 1 0087	- 0 0055		+ 5 711	+ 0 189		
287		+ 2 0332	+ 0 0011		+ 5 750	+ 0 282		
288		+ 0 9634	+ 0 0059		+ 5 863	+ 0 132		
289		+ 0 6594	- 0 0102		+ 5 876	+ 0 089		
290	2940 Taylor	+ 2 0028	+ 0 0010		+ 5 986	+ 0 276		
291	54 Geminorum λ	+ 3 4565	- 0 0055	- 0 002	+ 6 054	+ 0 478	+ 0 04	2998
292		+ 1 9296	+ 0 0007		+ 6 054	+ 0 265		
293	55 Geminorum δ	+ 3 5917	- 0 0072	0 000	+ 6 198	+ 0 495	+ 0 02	2410
294		+ 2 0311	+ 0 0009		+ 6 282	+ 0 279		
295		+ 1 0234	- 0 0008		+ 6 406	+ 0 221		
296	3005 Taylor	+ 0 9653	- 0 0071		+ 6 487	+ 0 130		
297	2805 Lacaille	+ 0 5816	- 0 0132		+ 6 641	+ 0 077		
298		+ 2 0255	+ 0 0010		+ 6 700	+ 0 275		
299	3043 Taylor	+ 2 0435	+ 0 0009		+ 6 795	+ 0 277		
300		+ 2 2515	+ 0 0013		+ 6 826	+ 0 306		
301	63 Geminorum	+ 3 5728	- 0 0078	- 0 004	+ 6 882	+ 0 487	+ 0 10	2460
302	3054 Taylor	+ 0 7398	- 0 0111		+ 6 864	+ 0 098		
303		+ 1 9500	+ 0 0006		+ 6 988	+ 0 264		
304	6 Canis Minoris	+ 3 3446	- 0 0052	+ 0 004	+ 7 042	+ 0 453	0 00	2473
305		+ 4 0499	- 0 0165		+ 7 199	+ 0 549		
306		+ 2 2585	+ 0 0011		+ 7 267	+ 0 304		
307	3 Canis Minoris Var 2	+ 3 2605	- 0 0044		+ 7 298	+ 0 440		
308	68 Geminorum	+ 3 4316	- 0 0066	- 0 004	+ 7 338	+ 0 463	0 00	2486
309	66 Gem α^2 (Castor)	+ 3 8550	- 0 0133	- 0 013	+ 7 344	+ 0 519	+ 0 08	2485
310		+ 1 4744	- 0 0024		+ 7 357	+ 0 197		
311		+ 2 2616	+ 0 0011		+ 7 416	+ 0 303		
312		+ 0 6169	- 0 0146		+ 7 449	+ 0 081		
313	3126 Taylor	+ 1 4160	- 0 0032		+ 7 640	+ 0 188		2507
314	10 Can Min (Procyon)	+ 3 1920	- 0 0041	- 0 048	+ 7 850	+ 0 425	+ 1 08	2522
315	2898 Lacaille	+ 2 3093	+ 0 0012		+ 7 894	+ 0 307		

291—304 —Proper Motions adopted from "Greenwich Catalogues"

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s	°	'	"		
316	2910 Lacaille	77	1	7	33	17 38	143	52	51-3 ⁶⁸	1	0 14
317		98	1	7	35	10 00	66	15	55 0	1	0 09
318		89	1	7	35	19 80	152	59	34 8	1	0 18
319		86	1	7	35	29 22	144	19	41 9	1	0 04
320	78 Gemmorum β (Pollux)	13		7	36	59 42	61	38	56 1	6	0 14
321	2971 Lacaille	76	2	7	40	18 27	143	54	58 3	2	0 15
322	T Gemmorum Var 4	10.4	1	7	41	8 37	65	55	48 7	1	0 09
323		85	1	7	41	18 45	151	34	30 1	1	0 18
324		87	1	7	41	32 28	144	18	41 3	1	0 15
325	3013 Lacaille	70	2	7	43	29 04	142	0	43 2	2	0 14
326	49 R P L	65		7	43	55 24	5	33	41-3	3	0 34
327	3034 Lacaille	88	1	7	44	4 63	153	51	39 1	1	0 18
328	3031 Lacaille	77	3	7	45	5 13	144	22	27 0	3	0 12
329	3290 Taylor	83	1	7	46	18 09	144	27	57 2	1	0 07
330	1791 Brisbane	83	1	7	46	18 63	144	24	39 2	1	0 07
331		85	2	7	46	20 45	144	22	26 6	2	0 17
332		91	2	7	48	28 61	67	46	6 7	2	0 15
333	3310 Taylor	70	1	7	48	32 66	149	17	52 9	1	0 20
334		95	1	7	48	59 01	130	26	3 1	1	0 10
335		69	1	7	49	29 50	152	34	55 6	1	0 18
[5 12] 336		88	1	7	50	476 ^{5 12}	129	38	25 7	1	0 19
337	3339 Taylor	86	1	7	51	50 10	144	16	56 4	1	0 12
338		87	1	7	52	54 08	144	41	42 0	1	0 16
339	5 Cancri	60	2	7	53	45 22	73	10	22 6	2	0 06
340	6 Cancri	55		7	55	9 70	61	49	40 3	4	0 13
341	3373 Taylor	79	2	7	55	18 81	144	11	52 5	2	0 16
342		80	1	7	55	20 11	128	30	12 2	1	0 21
343	1855 Brisbane	69	2	7	55	28 07	152	55	47 2	2	0 18
344	3380 Taylor	78	3	7	55	47 96	144	10	33 8	3	0 14
345		98	1	7	56	31 51	129	21	20 2	1	0 09
346	3154 Lacaille	56	3	7	58	36 73	153	11	28 7	3	0 14
347	12 Cancri	60	2	8	1	6 48	75	57	58 6	2	0 06
348	3174 Lacaille	72	2	8	1	25 69	155	37	56 0	2	0 22
349	15 Argûs	30		8	1	45 15	113	54	51 6	9	0 14
350		91	1	8	2	2 82	113	46	47 6	1	0 12

[568]

412

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>				
316	2910 Lacaille	+ 1 3896	- 0 0087		+ 7 940	+ 0 183		
317		+ 3 6100	- 0 0131		+ 8 090	+ 0 479		
318		+ 0 6726	- 0 0152		+ 8 108	+ 0 087		
319		+ 1 3648	- 0 0041		+ 8 116	+ 0 179		
320	78 Gem β (Pollux)	+ 3 7298	- 0 0128	- 0 049	+ 8 236	+ 0 491	+ 0 06	2555
321	2971 Lacaille	+ 1 4105	- 0 0038		+ 8 500	+ 0 182		
322	T Gemmorum Var 4	+ 3 6121	- 0 0110		+ 8 565	+ 0 472		
323		+ 0 8393	- 0 0128		+ 8 579	+ 0 107		
324		+ 1 3903	- 0 0041		+ 8 598	+ 0 179		
325	3013 Lacaille	+ 1 5317	- 0 0026		+ 8 751	+ 0 197		
326	49 R P L	+ 15 4159	- 1 2230		+ 8 785	+ 2 017		2585
327	3034 Lacaille	+ 0 6237	- 0 0180		+ 8 797	+ 0 078		
328	3031 Lacaille	+ 1 3990	- 0 0042		+ 8 877	+ 0 179		
329	3290 Taylor	+ 1 3977	- 0 0043		+ 8 972	+ 0 178		
330	1791 Brisbane	+ 1 4012	- 0 0043		+ 8 973	+ 0 179		
331		+ 1 4041	- 0 0042		+ 8 987	+ 0 179		
332		+ 3 5585	- 0 0109		+ 9 141	+ 0 458		
333	3310 Taylor	+ 1 0684	- 0 0095		+ 9 148	+ 0 135		
334		+ 2 0593	+ 0 0010		+ 9 181	+ 0 263		
335		+ 0 7332	- 0 0153		+ 9 221	+ 0 098		
336		+ 2 0897	+ 0 0011		+ 9 266	+ 0 266		
337	3339 Taylor	+ 1 4297	- 0 0041		+ 9 403	+ 0 180		
338		+ 1 4096	- 0 0044		+ 9 485	+ 0 177		
339	5 Cancri	+ 3 4277	- 0 0090	- 0 001	+ 9 551	+ 0 436	0 00	2664
340	6 Cancri	+ 3 6995	- 0 0148	- 0 005	+ 9 659	+ 0 468	+ 0 07	2672
341	3373 Taylor	+ 1 4478	- 0 0041		+ 9 664	+ 0 181		
342		+ 2 1404	+ 0 0013		+ 9 672	+ 0 270		
343	1855 Brisbane	+ 0 7811	- 0 0165		+ 9 683	+ 0 096		2680
344	3380 Taylor	+ 1 4513	- 0 0040		+ 9 704	+ 0 181		
345		+ 2 1143	+ 0 0013		+ 9 763	+ 0 265		
346	3154 Lacaille	+ 0 7728	- 0 0172		+ 9 922	+ 0 094		2713
347	12 Cancri	+ 3 3607	- 0 0083	- 0 001	+ 10 110	+ 0 419	+ 0 02	2720
348	3174 Lacaille	+ 0 5249	- 0 0246		+ 10 135	+ 0 062		
349	15 Argds	+ 2 5608	+ 0 0009	- 0 007	+ 10 160	+ 0 318	- 0 06	2728
350		+ 2 5645	+ 0 0009		+ 10 182	+ 0 318		

339—347—Proper motions adopted from "Greenwich Catalogues"

Mean Positions of Stars for 1864 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>					
351	3200 Lacaille	69	2	8	4	47.63	153	7	24.3	2	0.18
352		86	1	8	5	19.41	130	45	22.9	1	0.09
353		101	2	8	5	20.10	77	37	34.8	2	0.23
354		90	3	8	5	26.43	77	24	57.4	3	0.23
355		97	3	8	8	19.71	77	26	31.1	3	0.24
356	R Cancri Var 1	80	2	8	9	3.87	77	51	33.0	2	0.19
357		92	3	8	9	7.45	77	27	27.9	3	0.24
358		97	1	8	9	55.34	74	16	13.7	1	0.09
359		99	3	8	10	28.84	77	37	47.6	3	0.22
360	16224 Lalande	85	1	8	10	33.55	73	54	11.0	1	0.07
361		88	1	8	12	17.13	128	43	38.1	1	0.10
362		89	1	8	12	45.20	128	40	53.7	1	0.10
363		97	1	8	12	57.45	130	45	32.2	1	0.13
364		92	2	8	13	20.63	131	41	13.8	2	0.15
365		96	1	8	13	42.39	133	17	18.1	1	0.12
366		97	1	8	14	30.56	154	5	5.7	1	0.13
367		93	1	8	16	25.78	77	31	46.7	1	0.20
368		86	1	8	17	22.71	77	49	9.1	1	0.19
369		90	1	8	17	23.61	141	15	52.4	1	0.12
370	VIII 459 W B N	87	3	8	20	17.12	74	27	21.4	3	0.13
371	29 Cancri	60		8	21	2.13	75	20	30.1	1	0.13
372		90	3	8	23	7.81	73	25	24.7	3	0.19
373	3620 Taylor	80	1	8	23	10.60	130	47	47.6	1	0.12
374		86	1	8	23	32.12	128	38	35.7	1	0.25
375	31 Cancri θ	53		8	23	50.24	71	26	55.9	1	0.95
376		95	4	8	24	44.83	73	45	40.7	4	0.17
377	33 Cancri η	57		8	24	50.41	69	5	59.4	9	0.16
378	3651 Taylor	78	1	8	25	39.62	130	3	20.0	1	0.10
379	3652 Taylor	82	2	8	25	43.63	130	2	33.3	2	0.16
380	3393 Lacaille	79	2	8	25	56.92	149	40	8.6	2	0.12
381		91	1	8	26	25.43	130	30	28.1	1	0.27
382	VIII 635 W B N	90	4	8	27	38.93	73	48	19.4	4	0.17
383	U Cancri Var 4	97	2	8	27	53.93	70	38	20.4	2	0.10
384	3672 Taylor	72	2	8	28	29.95	74	13	7.8	3	0.18
385	16890 Lalande	89	3	8	28	41.64	73	12	52.3	3	0.26

356 — R Cancri Var 1 — Period 354 days — Range 6th to 12th magnitude

353 — 360 — Comparison stars for Ariadne in 1863

370 — Comparison star for new variable star W Cancri Var 5

372 — 376 — 382 — 384 — 385 — Comparison stars for Freia

383 — U Cancri Var 4 — Period 306 days — Range, 9th magnitude to invisibility

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>				
351	3200 Lacaille	+ 0 8156	- 0 0172		+ 10 388	+ 0 098		
352		+ 2 0878	+ 0 0013		+ 10 428	+ 0 256		
353		+ 3 3198	- 0 0080		+ 10 429	+ 0 410		
354		+ 3 3270	- 0 0081		+ 10 437	+ 0 410		
355		+ 3 3245	- 0 0081		+ 10 651	+ 0 406		
356	R Cancri Var 1	+ 3 3153	- 0 0080		+ 10 707	+ 0 404		
357		+ 3 3236	- 0 0082		+ 10 711	+ 0 405		
358		+ 3 3397	- 0 0096		+ 10 770	+ 0 412		
359		+ 3 3191	- 0 0082		+ 10 811	+ 0 403		
360	13224 Lalande	+ 3 3970	- 0 0097		+ 10 817	+ 0 412		
361		+ 2 1736	+ 0 0018		+ 10 944	+ 0 261		
362		+ 2 1763	+ 0 0018		+ 10 978	+ 0 261		
363		+ 2 1083	+ 0 0013		+ 10 993	+ 0 252		
364		+ 2 0773	+ 0 0015		+ 11 021	+ 0 248		
365		+ 2 0209	+ 0 0013		+ 11 047	+ 0 241		
366		+ 0 7810	- 0 0198		+ 11 106	+ 0 090		
367		+ 3 3169	- 0 0085		+ 11 246	+ 0 395		
368		+ 3 3104	- 0 0084		+ 11 314	+ 0 394		
369		+ 1 6961	- 0 0014		+ 11 315	+ 0 199		
370	VIII 459 W B N	+ 3 3765	- 0 0100		+ 11 523	+ 0 398		
371	29 Cancri	+ 3 3576	- 0 0096	- 0 002	+ 11 577	+ 0 395	+ 0 01	2836
372		+ 3 3943	- 0 0109		+ 11 726	+ 0 397		
373	3620 Taylor	+ 2 1361	+ 0 0020		+ 11 730	+ 0 248		
374		+ 2 2060	+ 0 0023		+ 11 755	+ 0 256		
375	31 Cancri θ	+ 3 4353	- 0 0118	- 0 006	+ 11 777	+ 0 401	+ 0 06	2853
376		+ 3 3864	- 0 0106		+ 11 841	+ 0 394		
377	33 Cancri η	+ 3 4839	- 0 0129	- 0 005	+ 11 848	+ 0 404	+ 0 06	2862
378	3651 Taylor	+ 2 1674	+ 0 0022		+ 11 906	+ 0 249		
379	3652 Taylor	+ 2 1681	+ 0 0022		+ 11 910	+ 0 249		
380	3393 Lacaille	+ 1 2348	- 0 0095		+ 11 926	+ 0 140		
381		+ 2 1552	+ 0 0022		+ 11 959	+ 0 247		
382	VIII 635 W B N	+ 3 3825	- 0 0107		+ 12 045	+ 0 390		
383	U Cancri Var 4	+ 3 4473	- 0 0124		+ 12 063	+ 0 397		
384	3672 Taylor	+ 3 3734	- 0 0105		+ 12 104	+ 0 387		2888
385	16890 Lalande	+ 3 3934	- 0 0110		+ 12 113	+ 0 389		

371—Proper Motions adopted from "Greenwich Catalogue."

Mean Positions of Stars for 1864 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>					
386	VIII 684 W B N	89	1	8	29	120	70	38	54.4	1	0.27
387	VIII 699 W B N	90	1	8	29	31.11	70	39	37.1	1	0.25
388		94	1	8	31	12.48	129	45	24.0	1	0.16
389	3710 Taylor	82	1	8	31	24.29	141	21	4.0	1	0.15
390		86	1	8	33	9.78	129	23	27.0	1	0.20
391	VIII 852 W B N	89	3	8	34	1.84	74	7	39.7	3	0.13
392		90	3	8	34	39.45	129	46	11.8	3	0.18
393	3491 Lacaille	79	1	8	36	1.13	152	21	51.3	1	0.27
394	S Cancri Var 2	83	1	8	36	9.77	70	28	48.0	1	0.27
395	3767 Taylor	76	1	8	36	19.67	14°	50	15.2	1	0.19
396	47 Cancri δ	43		8	36	57.18	71	20	55.9	1	0.95
397		92	1	8	37	16.10	136	8	32.1	1	0.26
398	17231 Lalande	79	2	8	37	44.14	74	27	41.3	3	0.14
399		83	2	8	37	50.53	136	5	33.6	2	0.20
400	VIII 977 W B N	95	3	8	39	15.23	74	49	0.5	3	0.12
401	11 Hydræ ϵ	35		8	39	34.29	83	5	4.5	6	0.18
402		85	1	8	40	29.34	129	15	34.0	1	0.15
403	VIII 1043 W B N	83	3	8	42	21.48	74	39	54.4	3	0.11
404		87	2	8	45	46.93	86	27	12.1	2	0.26
405	60 R P L	65		8	46	23.08	5	16	52.9	6	0.40
406	S Hydræ Var 3	88	2	8	46	28.36	86	25	13.4	2	0.23
407	3886 Taylor	79	3	8	48	14.02	136	52	52.8	3	0.17
408	T Hydræ Var 4	99	2	8	49	2.74	90	37	29.2	2	0.23
409		77	1	8	49	13.13	132	54	19.8	1	0.19
410		76	1	8	49	20.12	132	59	0.7	1	0.17
411	9 Ursæ Majoris ϵ	30		8	49	52.84	41	25	37.7	4	0.15
412		80	1	8	50	15.28	132	56	55.1	1	0.18
413		98	1	8	50	46.62	93	44	16.8	1	0.13
414	VIII 1302 W B E	90	1	8	50	49.33	93	53	46.7	1	0.23
415		92	2	8	50	58.82	93	35	9.3	2	0.17
416	65 Cancri α	47		8	51	2.70	77	37	6.1	2	0.21
417		93	2	8	54	9.86	142	41	8.8	2	0.19
418		84	1	8	54	20.33	130	34	53.3	1	0.23
419	3941 Taylor	85	1	8	54	59.75	144	6	23.4	1	0.10
420		81	1	8	56	39.39	146	55	44.0	1	0.27

391—398—400—403—Comparison stars for the planet Freia
 394—S Cancri Var 2—Period 9.48 days—Range 8th to 10.5 magnitude
 405—1286 Carrington
 406—S Hydræ Var 3—Period 256 days—Range 8th to 13th magnitude
 408—T Hydræ Var 4—Period 289 days—Range 7th to 12th magnitude

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>				
386	VIII 684 W B N	+ 3 4458	- 0 0124		+ 12 141	+ 0 395		
387	VIII 699 W B N	+ 3 4449	- 0 0124		+ 12 175	+ 0 394		
388		+ 2 1938	+ 0 0014		+ 12 293	+ 0 222		
389	3710 Taylor	+ 1 7519	- 0 0006		+ 12 306	+ 0 197		
390		+ 2 2104	+ 0 0026		+ 12 427	+ 0 248		
391	VIII 852 W B N	+ 3 3696	- 0 0109		+ 12 487	+ 0 379		
392		+ 2 2031	+ 0 0027		+ 12 529	+ 0 246		
393	3491 Lacaille	+ 1 0877	- 0 0141		+ 12 623	+ 0 118		2949
394	S Cancri Var 2	+ 3 4402	- 0 0130		+ 12 632	+ 0 385		
395	3767 Taylor	+ 1 2862	- 0 0089		+ 12 643	+ 0 141		
396	47 Cancri δ	+ 3 4216	- 0 0125	- 0 002	+ 12 686	+ 0 382	+ 0 24	2953
397		+ 1 9961	+ 0 0019		+ 12 707	+ 0 220		
398	17231 Lalande	+ 3 3592	- 0 0109		+ 12 738	+ 0 373		
399		+ 1 9997	+ 0 0019		+ 12 746	+ 0 220		
400	VIII 977 W B N	+ 3 3503	- 0 0108		+ 12 841	+ 0 369		
401	11 Hydræ ϵ	+ 3 1964	- 0 0071	- 0 013	+ 12 862	+ 0 351	+ 0 04	2971
402		+ 2 2365	+ 0 0031		+ 12 924	+ 0 244		
403	VIII 1043 W B N	+ 3 3505	- 0 0109		+ 13 048	+ 0 365		
404		+ 3 1342	- 0 0058		+ 13 275	+ 0 277		
405	60 R P L	+ 13 8924	- 1 7345		+ 13 314	+ 1 509		
406	S Hydræ Var 3	+ 3 1347	- 0 0059		+ 13 320	+ 0 336		
407	3886 Taylor	+ 2 0120	+ 0 0025		+ 13 434	+ 0 212		
408	T Hydræ Var 4	+ 2 9220	- 0 0018		+ 13 488	+ 0 309		
409		+ 2 1530	+ 0 0033		+ 13 498	+ 0 226		
410		+ 2 1510	+ 0 0033		+ 13 506	+ 0 226		
411	9 Ursæ Majoris ϵ	+ 4 1896	- 0 0446	- 0 047	+ 13 541	+ 0 443	+ 0 28	3043
412		+ 2 1559	+ 0 0034		+ 13 566	+ 0 226		
413		+ 2 9210	- 0 0016		+ 13 599	+ 0 307		
414	VIII 1302 W B E	+ 2 9183	- 0 0016		+ 13 602	+ 0 307		
415		+ 2 9238	- 0 0019		+ 13 612	+ 0 307		
416	65 Cancri α	+ 3 2876	+ 0 0098	0 000	+ 13 616	+ 0 346	+ 0 04	3055
417		+ 1 8005	+ 0 0005		+ 13 815	+ 0 184		
418		+ 2 2426	+ 0 0039		+ 13 826	+ 0 231		
419	3941 Taylor	+ 1 7375	- 0 0003		+ 13 867	+ 0 177		
420		+ 1 5992	+ 0 0027		+ 13 972	+ 0 161		

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s	'	"	"		
421		95	1	8	56	43 80	129	18	12 4	1	0 15
422		90		8	58	5 48	146	49	41 4	1	0 24
423		90	1	8	58	9 40	146	18	28 9	1	0 27
424		89	3	8	59	6 04	145	38	9 23	3	0 21
425	76 Cancri κ	55		9	0	22 78	78	47	12 3	3	0 16
426		82	2	9	1	3 51	150	1	31 8	2	0 19
427		80	1	9	1	50 14	128	57	10 7	1	0 21
428	3705 Lacaille	72	2	9	2	13 95	151	17	3 6	2	0 29
429		105	1	9	2	15 75	71	26	28 1	1	0 16
430		87	1	9	4	23 60	130	29	40 7	1	0 28
431	3713 Lacaille	88	1	9	4	34 83	143	49	12 4	1	0 21
432	4021 Taylor	71	2	9	5	31 14	138	44	11 5	2	0 18
433		77	1	9	6	26 92	142	29	27 7	1	0 27
434		88	1	9	6	30 83	138	41	30 2	1	0 15
435		86	3	9	8	14 25	148	14	15 1	3	0 18
436	83 Cancri α	67		9	11	23 12	71	43	13 5	4	0 23
437		82	4	9	11	48 62	130	45	7 9	4	0 21
438		79	2	9	13	3 26	72	17	57 5	3	0 22
439	ι Argus	20		9	13	27 06	143	42	22 3	3	0 23
440		86	2	9	14	37 92	24	50	29 3	2	0 25
441		90	1	9	15	15 46	143	43	40 2	1	0 22
442		90	1	9	15	54 93	25	4	26 1	1	0 23
443		90	1	9	16	6 17	140	7	34 8	1	0 16
444	9381 O A N	92	2	9	17	37 29	25	3	44 7	2	0 18
445		77	2	9	19	29 08	75	6	31 1	2	0 16
446	30 Hydræ α Var Ξ	23		9	20	54 21	93	4	15 5	6	0 21
447	3853 Lacaille	81	3	9	22	32 01	131	59	15 3	3	0 23
448	25 Ursæ Majoris θ	33		9	23	44 56	37	42	18 9	2	0 18
449	3886 Lacaille	78	1	9	24	43 23	141	49	48 5	1	0 21
450	3387 Lacaille	81	2	9	24	55 04	140	0	31 7	2	0 24
451		90	3	9	26	42 19	145	2	26 6	3	0 23
452		90	1	9	26	55 57	144	53	8 4	1	0 25
453		83	1	9	27	53 54	128	45	53 6	1	0 27
454	4226 Taylor	70	1	9	28	37 63	146	29	33 0	1	0 13
455		82	1	9	28	54 88	128	46	55 4	1	0 15

440 — 442 — 444 — Comparison stars for Comet 2 of 1861

446 — α Hydræ Var Ξ — Supposed to vary irregularly from 2 0 to 2 5 magnitude

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	
		s	s	s				
421		+ 2 2872	+ 0 0040		+ 13 976	+ 0 233		
422		+ 1 6138	- 0 0024		+ 14 062	+ 0 162		
423		+ 1 6428	- 0 0018		+ 14 066	+ 0 165		
424		+ 1 6840	- 0 0010		+ 14 126	+ 0 168		
425	76 Cancer κ	+ 3 2592	- 0 0094	- 0 002	+ 14 204	+ 0 330	+ 0 00	3111
426		+ 1 4405	- 0 0062		+ 14 247	+ 0 142		
427		+ 2 3140	+ 0 0044		+ 14 294	+ 0 231		
428	3705 Lacaille	+ 1 3633	- 0 0088		+ 14 319	+ 0 133		
429		+ 3 3864	- 0 0133		+ 14 320	+ 0 340		
430		+ 2 2804	+ 0 0047		+ 14 450	+ 0 225		
431	3713 Lacaille	+ 1 8055	+ 0 0010		+ 14 462	+ 0 176		
432	4021 Taylor	+ 2 0°09	+ 0 0037		+ 14 518	+ 0 197		
433		+ 1 8755	+ 0 0022		+ 14 575	+ 0 182		
434		+ 2 0272	+ 0 0037		+ 14 578	+ 0 197		
435		+ 1 6009	- 0 0025		+ 14 682	+ 0 153		
436	83 Cancer	+ 3 3634	- 0 0134	- 0 012	+ 14 867	+ 0 323	+ 0 16	3171
437		+ 2 3001	+ 0 0052		+ 14 893	+ 0 219		
438		+ 3 3561	- 0 0131		+ 14 966	+ 0 320		
439	Argus	+ 1 6106	- 0 0022	- 0 008	+ 14 988	+ 0 150	+ 0 02	3186
440		+ 4 9798	- 0 1189		+ 15 056	+ 0 473		
441		+ 1 8686	+ 0 0026		+ 15 093	+ 0 174		
442		+ 4 9476	- 0 1123		+ 15 130	+ 0 466		
443		+ 2 0225	+ 0 0045		+ 15 141	+ 0 186		
444	9881 O A N	+ 4 9325	- 0 1126		+ 15 229	+ 0 461		
445		+ 3 3012	- 0 0116		+ 15 334	+ 0 303		
446	30 Hydræ α Var Ξ	+ 2 9506	- 0 0013	- 0 004	+ 15 415	+ 0 268	- 0 03	3223
447	3853 Lacaille	+ 2 3089	+ 0 0063		+ 15 504	+ 0 207		
448	25 Ursa Majoris θ	+ 4 1620	- 0 0561	- 0 111	+ 15 571	+ 0 374	+ 0 57	3242
449	3886 Lacaille	+ 2 0057	+ 0 0052		+ 15 626	+ 0 176		
450	3887 Lacaille	+ 2 0740	+ 0 0057		+ 15 636	+ 0 182		
451		+ 1 8862	+ 0 0037		+ 15 733	+ 0 164		
452		+ 1 8907	+ 0 0038		+ 15 745	+ 0 164		
453		+ 2 4110	+ 0 0066		+ 15 802	+ 0 210		
454	4226 Taylor	+ 1 8332	+ 0 0030		+ 15 837	+ 0 157		
455		+ 2 4142	+ 0 0067		+ 15 852	+ 0 209		

439—Proper Motions taken from Mr Stone's list *Mem R A S* Vol 12

Mean Positions of Stars for 1861 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>					
456		8.3	2	9	29	1.32	128	49	33.9	2	0.17
457	4259 Taylor	5.3	1	9	31	57.68	138	44	48.5	1	0.17
458		8.8	3	9	32	27.63	129	53	53.7	3	0.21
459		7.8	1	9	32	54.20	129	47	34.1	1	0.21
460	14 Leonis σ	4.0		9	33	53.35	79	29	27.6	1	0.18
461		8.9	3	9	34	43.92	130	34	39.4	3	0.19
462		8.5	1	9	35	33.97	151	56	22.6	1	0.27
463	17 Leonis ϵ	3.0		9	38	7.54	65	36	6.1	8	0.19
464	R Leonis Var. 1	6.0	5	9	40	14.42	77	56	32.3	5	0.26
465		8.7	1	9	41	50.08	130	49	18.8	1	0.07
466		9.0	1	9	42	42.08	130	47	19.2	1	0.23
467		9.0	3	9	43	27.09	143	56	50.4	3	0.21
468		7.7	1	9	43	34.18	143	45	55.2	1	0.19
469		8.8	1	9	45	55.98	129	2	51.8	1	0.22
470	70 R P L	6.5		9	46	13.04	5	25	49.2	3	0.31
471		9.2	2	9	46	26.54	129	6	56.1	2	0.18
472	IX 1057 W B E	7.3	3	9	49	44.67	85	6	12.1	3	0.14
473	4402 Taylor	7.6	3	9	49	53.40	129	47	30.0	3	0.27
474	29 Leonis π	5.0		9	53	1.46	81	18	17.5	10	0.10
475		9.3	1	9	53	52.92 ^{52.10}	152	6	48.9	1	0.27
476	4445 Taylor	8.1	4	9	54	43.19	147	28	40.8	1	0.19
477		8.3	1	9	56	26.50	144	3	50.4	1	0.18
478		9.0	1	9	57	7.36	129	56	40.4	1	0.16
479	4476 Taylor	8.5	1	9	57	51.23	115	36	1.3	1	0.25
480		8.8	2	9	58	26.00	150	38	57.9	2	0.30
481	14 Sextantis	6.0		9	59	40.60	83	43	36.5	1	0.11
482	31 Leonis A	5.0		10	0	41.11	79	20	15.0	1	0.21
483	32 Leonis α (<i>Regulus</i>)	1.3		10	1	7.55	77	22	10.5	14	0.25
484		9.0	1	10	2	46.64	129	57	33.4	1	0.16
485	4538 Taylor	7.5	3	10	6	9.42	129	19	27.1	3	0.20
486		9.1	1	10	9	1.46	139	51	41.8	1	0.18
487	72 R P L	5.9		10	9	20.72	5	3	98.2	5	0.48
488	4577 Taylor	8.8	2	10	9	47.74	128	36	58.0	2	0.25
489		9.0	1	10	10	15.97	139	51	9.0	1	0.28
490	41 Leonis γ	2.5		10	10	28.18	69	28	19.0	12	0.24

464 — R Leonis Var. 1 — Period 312 days — Range 6th to 10th magnitude

470 — 1461 Carington

472 — Comparison star for Asia in 1864

487 — 1620 Groombridge

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	
		s	s	s				
456		+ 2 4135	+ 0 0068		+ 15 858	+ 0 208		
457	4259 Taylor	+ 2 1545	+ 0 0063		+ 16 014	+ 0 182		3800
458		+ 2 4011	+ 0 0072		+ 16 041	+ 0 203		
459		+ 2 4054	+ 0 0072		+ 16 064	+ 0 203		
460	14 Leonis σ	+ 3 2197	- 0 0093	- 0 013	+ 16 115	+ 0 273	+ 0 04	3812
461		+ 2 3939	+ 0 0075		+ 16 160	+ 0 200		
462		+ 1 5939	- 0 0020		+ 16 203	+ 0 130		
463	17 Leonis ϵ	+ 3 4239	- 0 0180	- 0 004	+ 16 334	+ 0 282	+ 0 02	3831
464	R Leonis Var 1	+ 3 2356	- 0 0101		+ 16 440	+ 0 263		3845
465		+ 2 4172	+ 0 0083		+ 16 520	+ 0 193		
466		+ 2 4214	+ 0 0084		+ 16 562	+ 0 192		
467		+ 2 0414	+ 0 0075		+ 16 599	+ 0 160		
468		+ 2 0490	+ 0 0075		+ 16 605	+ 0 160		
469		+ 2 4733	+ 0 0086		+ 16 720	+ 0 192		
470	70 R 1 L	+ 10 8196	- 1 5902		+ 16 738	+ 0 860		
471		+ 2 4738	+ 0 0086		+ 16 740	+ 0 192		
472	IX 1057 W B E	+ 3 1337	- 0 0062		+ 16 903	+ 0 239		
473	4402 Taylor	+ 2 4732	+ 0 0091		+ 16 909	+ 0 187		
474	29 Leonis π	+ 3 1796	- 0 0080	- 0 003	+ 17 055	+ 0 286	0 03	3415
475		+ 1 7509	+ 0 0034		+ 17 094	+ 0 127		
476	1445 Taylor	+ 1 9821	+ 0 0088		+ 17 133	+ 0 143		
477		+ 2 1251	+ 0 0102		+ 17 210	+ 0 152		
478		+ 2 5001	+ 0 0099		+ 17 240	+ 0 179		
179	4476 Taylor	+ 2 0799	+ 0 0100		+ 17 273	+ 0 147		
180		+ 1 8693	+ 0 0067		+ 17 299	+ 0 131		
481	14 Sextantis	+ 3 1456	- 0 0066	- 0 005	+ 17 355	+ 0 222	+ 0 01	3449
482	31 Leonis A	+ 3 1973	- 0 0091	- 0 009	+ 17 398	+ 0 225	+ 0 05	3457
483	32 Leonis α (<i>Regulus</i>)	+ 3 2205	- 0 0102	- 0 019	+ 17 417	+ 0 225	- 0 01	3459
484		+ 2 5238	+ 0 0106		+ 17 438	+ 0 172		
485	4538 Taylor	+ 2 5503	+ 0 0109		+ 17 631	+ 0 169		
486		+ 2 3340	+ 0 0131		+ 17 749	+ 0 150		
487	72 R P L	+ 10 0817	- 1 6636	- 0 079	+ 17 762	+ 0 675	+ 0 05	3465
488	4577 Taylor	+ 2 5732	+ 0 0112		+ 17 781	+ 0 166		
489		+ 2 3413	+ 0 0134		+ 17 800	+ 0 149		
490	41 Leonis γ^1	+ 3 2933	- 0 0143	+ 0 019	+ 17 888	+ 0 203	+ 0 15	3523

481 — Proper Motions adopted from ' Greenwich Catalogue

Mean Positions of Stars for 1864 January 1st

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations.	Fraction of Year
				h	m	s					
491	43 Leonis	6.5		10	15	53.40	82	46	5.1	2	0.07
492		9.2	2	10	16	8.20	75	24	30.6	2	0.26
493		8.9	2	10	16	11.79	129	16	16.5	2	0.17
494	4653 Taylor	8.4	1	10	18	1.94	151	23	10.5	1	0.18
495	45 Leonis	6.0		10	20	27.87	79	32	44.1	3	0.14
496		9.0	1	10	21	55.82	146	59	1.4	1	0.28
497	30 Sextantis	6.0		10	23	20.43	89	56	25.8	2	0.22
498		10.0	1	10	23	22.20	76	5	17.7	2	0.21
499	47 Leonis ρ	4.3		10	25	38.86	79	59	41.4	10	0.26
500		9.2	1	10	29	12.38	147	54	36.0	1	0.28
501		9.6	2	10	34	52.15	139	16	38.4	2	0.30
502		9.2	1	10	35	22.25	137	19	31.7	1	0.32
503	36 Sextantis	6.0		10	38	8.91	86	47	51.7	1	0.22
504		8.0	3	10	38	47.07	144	50	21.1	3	0.28
505	η Argus Var 1			10	39	47.45	148	58	13.4	3	0.23
506		9.0	1	10	41	25.52	146	23	11.9	1	0.20
507	53 Leonis l	6.0		10	42	6.36	78	44	10.3	11	0.26
508	4886 Taylor	7.0	1	10	42	47.47	137	2	0.2	1	0.17
509		8.1	3	10	45	4.13	141	45	4.6	3	0.31
510		8.4	1	10	46	2.79	141	39	51.2	1	0.32
511		9.0	1	10	47	52.85	150	5	33.6	1	0.30
512		8.9	1	10	47	59.18	129	29	12.6	1	0.26
513		9.0	1	10	50	16.20	144	30	30.0	1	0.22
514	4955 Taylor	6.8	1	10	50	40.47	147	19	36.3	1	0.28
515		9.0	1	10	52	15.94	143	36	15.0	1	0.23
516		8.6	2	10	52	52.74	130	32	46.5	2	0.31
517	59 Leonis c	5.5		10	53	41.73	83	10	6.9	2	0.14
518	61 Leonis ρ	5.5		10	54	53.58	91	45	12.8	1	0.07
519	50 Ursae Majoris α	2.0		10	55	18.55	27	30	57.2	3	0.30
520		8.2	1	10	56	59.48	145	32	27.4	1	0.36
521		9.3	1	10	57	1.96	145	35	40.0	1	0.32
522	4576 Lacaille	7.9	2	10	57	48.85	129	34	38.1	2	0.27
523	63 Leonis χ	5.0		10	58	0.03	81	55	46.5	11	0.25
524		9.2	1	10	58	11.95	140	59	14.9	1	0.32
525	65 Leonis ρ^3	5.5		10	59	57.96	87	18	29.9	1	0.30

[274]

505 — η Argus 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 B A C
		Annual Precession	Secular Variation	Proper Motion	Annual Precession	Secular Variation	Proper Motion	
491	43 Leonis	+ 3 1465	- 0 0068	- 0 001	+ 18 021	+ 0 194	+ 0 09	3544
492		+ 3 2 ^o 45	- 0 0110		+ 18 030	+ 0 198		
493		+ 2 5937	+ 0 0121		+ 18 033	+ 0 158		
494	4653 Taylor	+ 2 0173	+ 0 0129		+ 18 103	+ 0 119		3575
495	45 Leonis	+ 3 1759	- 0 0084	- 0 002	+ 18 193	+ 0 187	+ 0 01	
496		+ 2 2182	+ 0 0150		+ 18 247	+ 0 126		
497	30 Sextantis	+ 3 0726	- 0 0030	- 0 004	+ 18 297	+ 0 175	+ 0 03	3597
498		+ 3 2076	- 0 0102		+ 18 298	+ 0 183		
499	47 Leonis ρ	+ 3 1664	- 0 0080	0 000	+ 18 380	+ 0 176	+ 0 03	
500		+ 2 2483	+ 0 0181		+ 18 502	+ 0 119		3609
501		+ 2 5083	+ 0 0182		+ 18 687	+ 0 125		
502		+ 2 5186	+ 0 0177		+ 18 703	+ 0 126		
503	36 Sextantis	+ 3 0982	- 0 0040	- 0 006	+ 18 789	+ 0 150	+ 0 01	3684
504		+ 2 4134	+ 0 0207		+ 18 809	+ 0 114		
505	η Argus Var 1	+ 2 3100	+ 0 0215	- 0 003	+ 18 839	+ 0 107	+ 0 01	
506		+ 2 3959	+ 0 0218		+ 18 888	+ 0 109		3708
507	53 Leonis l	+ 3 1608	- 0 0080	- 0 003	+ 18 908	+ 0 145	+ 0 02	
508	4856 Taylor	+ 2 3976	+ 0 0190		+ 18 928	+ 0 117		
509		+ 2 5274	+ 0 0213		+ 18 998	+ 0 110		3769
510		+ 2 5359	+ 0 0215		+ 19 020	+ 0 109		
511		+ 2 3526	+ 0 0246		+ 19 071	+ 0 093		
512		+ 2 7316	+ 0 0164		+ 19 073	+ 0 115		3775
513		+ 2 5104	+ 0 0238		+ 19 134	+ 0 102		
514	4955 Taylor	+ 2 4510	+ 0 0250		+ 19 145	+ 0 097		
515		+ 2 5443	+ 0 0239		+ 19 187	+ 0 100		3777
516		+ 2 6194	+ 0 0222		+ 19 201	+ 0 102		
517	59 Leonis c	+ 3 1178	- 0 0052	- 0 005	+ 19 221	+ 0 122	+ 0 06	
518	61 Leonis p^1	+ 3 0606	- 0 0007	0 000	+ 19 251	+ 0 117	+ 0 04	3798
519	50 Ursa Majoris a	+ 3 7869	- 0 0821	- 0 017	+ 19 261	+ 0 144	+ 0 09	
520		+ 2 5431	+ 0 0262		+ 19 302	+ 0 093		
521		+ 2 5424	+ 0 0263		+ 19 303	+ 0 092		3798
522	4576 Lacaille	+ 2 7758	+ 0 0179		+ 19 321	+ 0 100		
523	63 Leonis x	+ 3 1226	- 0 0065	- 0 024	+ 19 326	+ 0 113	+ 0 08	
524		+ 2 6324	+ 0 0242		+ 19 330	+ 0 094		3798
525	65 Leonis p^3	+ 3 0383	- 0 0028	- 0 028	+ 19 371	+ 0 109	+ 0 08	

491—495—497—525—Proper Motions adopted from *Greenwich Catalogues* ,
 505—Proper Motions from Mr Stone's list *Mem R A S* Vol 42
 518—Proper Motions from Mr Stone's list "*Mem R A S*" Vol 38

Mean Positions of Stars for 1864 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>					
526		9.7	1	11	0	36.53	147	13	43.7	1	0.33
527	21367 Lalande	8.0	1	11	3	18.75	78	5	47.8	1	0.37
528		8.2	1	11	4	20.19	105	14	31.1	1	0.37
529	5092 Taylor	8.8	1	11	5	18.86	143	49	7.7	1	0.33
530		9.9	2	11	5	41.10	83	50	24.8	2	0.22
531	69 Leonis <i>p</i> ^s	5.5		11	6	47.83	89	19	48.4	1	0.14
532	68 Leonis <i>δ</i>	2.5		11	6	52.28	68	43	55.2	10	0.25
533		8.2	1	11	7	7.12	145	40	14.6	1	0.33
534		8.0	1	11	8	34.11	150	50	49.2	1	0.36
535		9.8	1	11	9	28.70	145	55	13.9	1	0.34
536	74 Leonis <i>φ</i>	4.7		11	9	44.90	92	54	32.0	4	0.20
537		9.8	1	11	10	31.90	141	8	35.7	1	0.32
538		9.0	1	11	11	8.16	127	38	22.5	1	0.32
539	12 Crateris <i>δ</i>	3.3		11	12	32.57	104	2	34.6	8	0.26
540		7.9	3	11	12	48.58	129	32	6.8	3	0.35
541	4726 Lacaille	7.6	2	11	16	5.21	145	51	29.0	2	0.33
542	5220 Taylor	8.1	3	11	19	0.51	131	55	30.8	3	0.34
543		8.6	1	11	19	24.95	129	30	57.8	1	0.32
544		9.5	1	11	21	41.86	128	22	47.4	1	0.24
545		8.1	4	11	22	7.66	129	4	15.7	4	0.30
546		9.0	1	11	22	48.14	145	53	44.9	1	0.32
547		9.0	1	11	23	11.85	142	52	33.9	1	0.32
548	87 Leonis <i>e</i>	5.5		11	23	21.88	92	15	13.9	1	0.37
549		9.1	2	11	24	35.16	146	8	57.4	2	0.34
550		9.1	2	11	26	15.02	143	51	15.2	2	0.33
551		10.2	1	11	26	39.88	23	17	32.2	1	0.32
552		8.5	1	11	29	50.97	149	15	40.3	1	0.32
553	91 Leonis <i>v</i>	4.7		11	29	59.13	90	4	24.3	13	0.27
554		9.2	1	11	32	9.19	144	14	32.4	1	0.32
555		8.8	1	11	33	57.32	127	49	16.1	1	0.33
556		8.8	1	11	34	20.24	144	20	39.4	1	0.25
557		9.0	1	11	36	3.21	139	40	16.5	1	0.33
558	5384 Taylor	6.0	2	11	37	2.85	151	44	7.3	2	0.35
559		8.0	1	11	38	9.35	149	38	49.4	1	0.34
560		9.8	1	11	38	42.13	129	34	5.1	1	0.32

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 5398	+ 0 0282		+ 19 385	+ 0 087		
527	21367 Lalande	+ 3 1411	- 0 0075		+ 19 445	+ 0 104		
528		+ 2 5097	+ 0 0313		+ 19 466	+ 0 080		
529	5092 Taylor	+ 2 6400	+ 0 0276		+ 19 487	+ 0 088		
530		+ 3 1059	- 0 0043		+ 19 494	+ 0 098		
531	69 Leonis <i>p</i> ^s	+ 3 0757	- 0 0013	0 000	+ 19 517	+ 0 095	0 00	3832
532	68 Leonis <i>δ</i>	+ 3 1916	- 0 0132	+ 0 011	+ 19 519	+ 0 098	+ 0 14	3834
533		+ 2 6243	+ 0 0294		+ 19 524	+ 0 079		
534		+ 2 5387	+ 0 0441		+ 19 552	+ 0 074		
535		+ 2 6400	+ 0 0304		+ 19 570	+ 0 076		
536	74 Leonis <i>φ</i>	+ 3 0573	+ 0 0006	- 0 009	+ 19 575	+ 0 089	+ 0 04	3848
537		+ 2 7167	+ 0 0273		+ 19 590	+ 0 077		
538		+ 2 8539	+ 0 0186		+ 19 601	+ 0 080		
539	12 Crateris <i>δ</i>	+ 3 0032	+ 0 0064	- 0 009	+ 19 627	+ 0 081	- 0 18	3859
540		+ 2 8465	+ 0 0200		+ 19 631	+ 0 077		
541	4726 Lacaille	+ 2 6966	+ 0 0324		+ 19 638	+ 0 067		
542	5220 Taylor	+ 2 8535	+ 0 0225		+ 19 735	+ 0 066		
543		+ 2 8778	+ 0 0209		+ 19 741	+ 0 065		
544		+ 2 8959	+ 0 0205		+ 19 776	+ 0 061		
545		+ 2 8935	+ 0 0209		+ 19 781	+ 0 060		
546		+ 2 7530	+ 0 0344		+ 19 791	+ 0 056		
547		+ 2 7896	+ 0 0318		+ 19 797	+ 0 056		
548	87 Leonis <i>e</i>	+ 3 0637	+ 0 0011	- 0 001	+ 19 799	+ 0 062	+ 0 03	3916
549		+ 2 7652	+ 0 0352		+ 19 816	+ 0 053		
550		+ 2 8035	+ 0 0335		+ 19 838	+ 0 051		
551		+ 3 5222	- 0 0889		+ 19 843	+ 0 065		
552		+ 2 7772	+ 0 0406		+ 19 881	+ 0 044		
553	91 Leonis <i>v</i>	+ 3 0718	+ 0 0003	- 0 003	+ 19 884	+ 0 049	- 0 03	3946
554		+ 2 8471	+ 0 0356		+ 19 907	+ 0 041		
555		+ 2 9544	+ 0 0219		+ 19 925	+ 0 040		
556		+ 2 8638	+ 0 0364		+ 19 929	+ 0 037		
557		+ 2 9078	+ 0 0320		+ 19 945	+ 0 035		
558	5384 Taylor	+ 2 8235	+ 0 0470		+ 19 954	+ 0 032		3976
559		+ 2 8548	+ 0 0444		+ 19 964	+ 0 030		
560		+ 2 9696	+ 0 0237		+ 19 969	+ 0 031		

Mean Positions of Stars for 1864 January 1st

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
561		7.9	1	11	40	56.36	149	52	24	1	0.38
562		8.7	1	11	41	9.03	126	30	25.6	1	0.26
563		8.2	2	11	41	12.36	129	32	6.3	2	0.29
564	94 Leonis β (<i>Deneb</i>)	2.0		11	42	7.21	70	40	5.0	11	0.30
565		8.5	2	11	43	8.28	143	40	15.7	2	0.30
566	5 Virginis β	3.5		11	43	36.67	87	28	8.6	4	0.22
567	5427 Taylor	6.0	1	11	44	5.15	94	34	38.6	1	0.38
568		8.7	1	11	44	44.16	129	2	40.7	1	0.33
569	5433 Taylor	7.7	1	11	44	51.57	129	33	3.0	1	0.32
570		9.3	1	11	45	51.40	142	31	0.6	1	0.34
571	64 Ursae Majoris γ	2.3		11	46	30.67	35	32	56.0	1	0.30
572		8.7	2	11	49	56.06	128	5	29.6	2	0.26
573		8.4	1	11	51	23.65	128	52	34.2	1	0.26
574		9.3	1	11	51	36.57	144	12	54.1	1	0.32
575		8.0		11	52	20.94	154	32	32.2	1	0.36
576		9.7	2	11	53	50.17	129	35	50.1	2	0.35
577		9.0	3	11	56	23.61	128	29	55.8	3	0.28
578	5534 Taylor	8.0	1	11	56	49.55	143	57	19.9	1	0.33
579	4995 Lacaille	7.8	1	11	56	54.06	142	44	26.8	1	0.32
580	5535 Taylor	7.9	2	11	57	3.47	70	25	29.7	2	0.29
581	89 R P L	6.3		11	57	51.22	3	39	33.6	3	0.49
582		8.2	2	11	59	1.22	128	27	45.4	2	0.24
583		8.5	2	11	59	44.33	144	16	11.2	2	0.35
584		9.0	1	12	1	37.16	130	1	34.8	1	0.34
585	5041 Lacaille	7.9	1	12	2	32.88	141	23	14.3	1	0.29
586		9.0	1	12	2	37.25	141	5	39.5	1	0.34
587	10 Virginis	6.0		12	2	43.10	87	20	18.4	1	0.30
588	2 Corvi ϵ	3.0		12	3	8.08	111	51	47.5	8	0.33
589		9.9	1	12	6	3.08	130	11	7.8	1	0.34
590		8.2	1	12	6	12.47	138	27	32.0	1	0.27
591	5613 Taylor	8.0	1	12	7	55.44	130	22	49.0	1	0.33
592	69 Ursae Majoris δ	3.5		12	8	40.93	32	12	42.4	2	0.37
593		8.8	1	12	8	50.14	144	20	13.0	1	0.33
594	13 Virginis	6.3		12	11	42.07	90	1	51.3	2	0.22
595	5648 Taylor	6.9	3	12	12	31.23	152	5	57.5	3	0.34

581 — 1850 Groombridge

593 — Double the 3rd and brighter star observed

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	
		s	s	s				
561		+ 2 8808	+ 0 0458		+ 19 986	+ 0 026		
562		+ 2 9908	+ 0 0218		+ 19 987	+ 0 027		
563		+ 2 9817	+ 0 0240		+ 19 988	+ 0 027		
564	94 Leonis β (<i>Deneb</i>)	+ 3 1006	- 0 0074	- 0 086	+ 19 994	+ 0 025	+ 0 10	3995
565		+ 2 9879	+ 0 0382		+ 20 001	+ 0 022		
566	5 Virginis β	+ 3 0763	- 0 0003	+ 0 048	+ 20 004	+ 0 023	+ 0 28	4002
567	5427 Taylor	+ 3 0647	+ 0 0034		+ 20 007	+ 0 022		4006
568		+ 3 0000	+ 0 0241		+ 20 011	+ 0 020		
569	5433 Taylor	+ 2 9992	+ 0 0246		+ 20 012	+ 0 020		
570		+ 2 9646	+ 0 0373		+ 20 017	+ 0 017		
571	64 Ursæ Majoris γ	+ 3 1808	- 0 0483	+ 0 011	+ 20 022	+ 0 017	0 00	4017
572		+ 3 0261	+ 0 0241		+ 20 036	+ 0 010		
573		+ 3 0317	+ 0 0249		+ 20 041	+ 0 007		
574		+ 3 0042	+ 0 0410		+ 20 042	+ 0 007		
575		+ 2 9783	+ 0 0604		+ 20 044	+ 0 005		
576		+ 3 0423	+ 0 0258		+ 20 048	+ 0 003		
577		+ 3 0553	+ 0 0253		+ 20 053	- 0 002		
578	5534 Taylor	+ 3 0467	+ 0 0421		+ 20 053	- 0 003		
579	4995 Lacaille	+ 3 0483	+ 0 0404		+ 20 053	- 0 003		
580	5535 Taylor	+ 3 0782	- 0 0089		+ 20 054	- 0 003		
581	89 R P L	+ 3 2674	- 0 5247		+ 20 054	- 0 005		4070
582		+ 3 0675	+ 0 0255		+ 20 055	- 0 007		
583		+ 3 0699	+ 0 0434		+ 20 055	- 0 009		
584		+ 3 0800	+ 0 0273		+ 20 054	- 0 012		
585	5041 Lacaille	+ 3 0907	+ 0 0400		+ 20 054	- 0 014		
586		+ 3 0910	+ 0 0396		+ 20 054	- 0 015		
587	10 Virginis	+ 3 0714	+ 0 0007	- 0 001	+ 20 054	- 0 013	+ 0 21	4094
588	2 Corvi ϵ	+ 3 0793	+ 0 0142	- 0 005	+ 20 054	- 0 016	- 0 01	4097
589		+ 3 1019	+ 0 0280		+ 20 048	- 0 021		
590		+ 3 1129	+ 0 0369		+ 20 048	- 0 022		
591	5613 Taylor	+ 3 1114	+ 0 0284		+ 20 043	- 0 025		
592	69 Ursæ Majoris δ	+ 2 9917	- 0 0425	+ 0 015	+ 20 040	- 0 026	+ 0 04	4123
593		+ 3 1439	+ 0 0460		+ 20 040	- 0 027		
594	13 Virginis	+ 3 0721	+ 0 0026	0 000	+ 20 029	- 0 032	+ 0 04	4137
595	5648 Taylor	+ 3 2100	+ 0 0640		+ 20 024	- 0 035		

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
596	15 Virginis η	3.7		12	12	56.91	89	54	38.9	6	0.32
597		9.5	1	12	14	3.66	143	44	49.8	1	0.34
598	5119 Lacaille	8.4	1	12	15	21.68	138	34	15.4	1	0.27
599		8.0	1	12	16	46.01	147	9	46.4	1	0.37
600		8.7	2	12	17	24.22	24	43	7.3	2	0.24
601		9.8	1	12	18	39.10	143	30	8.0	1	0.34
602		9.5		12	19	0.47	129	43	47.8	1	0.32
603	α Crucis (1st)	2.3		12	19	3.52	152	20	42.4	2	0.34
604		8.0	2	12	21	6.81	145	42	19.0	2	0.37
605		3.3	2	12	24	38.58	150	58	38.9	2	0.32
606		7.0	1	12	25	56.04	28	2	1.0	1	0.33
607	21 Virginis ζ	6.0	2	12	26	45.81	98	42	5.4	5	0.27
608		8.0	1	12	27	4.41	38	0	26.8	1	0.37
609	9 Corvi β	2.3		12	27	14.86	112	38	38.9	4	0.34
610		9.2	1	12	27	49.34	140	55	32.3	1	0.34
611	T Ursae Majoris Var 3	8.3	3	12	30	11.19	29	45	49.5	3	0.32
612		9.2	1	12	30	50.84	142	19	41.5	1	0.39
613	R Virginis Var 2	7.3	4	12	31	35.85	82	15	47.4	4	0.36
614		9.8	2	12	32	8.58	29	14	20.1	2	0.33
615	26 Virginis χ	6.0	1	12	32	13.76	97	14	48.0	4	0.28
616		7.0	1	12	32	51.66	28	13	23.1	1	0.32
617	5830 Taylor	7.5	1	12	34	26.89	144	0	51.4	1	0.36
618	XII 592 W B E	8.0	3	12	36	1.30	93	17	48.6	3	0.29
619	S Ursae Majoris Var 2	9.7	2	12	37	58.32	28	9	42.2	2	0.32
620		9.6	3	12	39	36.25	94	1	53.6	3	0.26
621		7.9	1	12	40	49.04	141	52	54.0	1	0.37
622		8.0	1	12	41	40.06	141	49	33.0	1	0.35
623		9.2	1	12	42	3.84	147	16	27.3	1	0.38
624		8.7	1	12	42	47.38	142	51	56.9	1	0.36
625		9.3	1	12	42	51.08	139	25	15.5	1	0.40
626		8.3	1	12	43	17.33	129	7	50.7	1	0.36
627		8.9	4	12	43	26.08	83	19	14.6	4	0.36
628	U Virginis Var 3	9.3	3	12	44	11.78	83	42	20.5	3	0.34
629	2922 Radcliffe	6.2	1	12	45	6.74	26	16	27.1	1	0.38
630		9.7	3	12	45	10.12	83	19	6.9	3	0.30

600—629—Comparison stars for Comet 2 1861
 611—T Ursae Majoris Var 3—Period 255 days—Range 7th to 12th magnitude
 613—R Virginis Var 2—Period 146 days—Range 6.5 to 11th magnitude
 618—620—Comparison stars for Hestia in 1864
 619—S Ursae Majoris Var 2—Period 225 days—Range 7th to 12th magnitude
 628—U Virginis Var 3—Period 207 days—Range 8th to 13th magnitude

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>				
596	15 Virginis η	+ 3 0719	+ 0 0027	- 0 007	+ 20 023	- 0 085	+ 0 08	4145
597		+ 3 1838	+ 0 0464		+ 20 018	- 0 038		
598	5119 Lacaille	+ 3 1735	+ 0 0388		+ 20 010	- 0 040		
599		+ 3 2234	+ 0 0535		+ 20 001	- 0 044		
600		+ 2 8517	- 0 0523		+ 19 997	- 0 041		
601		+ 3 2190	+ 0 0464		+ 19 989	- 0 047		
602		+ 3 1641	+ 0 0292		+ 19 986	- 0 047		
603	α Crucis (1st)	+ 3 2837	+ 0 0680	- 0 006	+ 19 936	- 0 050	+ 0 01	4187
604		+ 3 2524	+ 0 0518		+ 19 970	- 0 053		
605		+ 3 3307	+ 0 0658		+ 19 940	- 0 061		
606		+ 2 7885	- 0 0420		+ 19 927	- 0 055		
607	21 Virginis ζ	+ 3 0960	+ 0 0080	- 0 009	+ 19 918	- 0 062	0 00	
608		+ 2 8705	- 0 0294		+ 19 916	- 0 058		
609	9 Corvi β	+ 3 1381	+ 0 0164	- 0 008	+ 19 914	- 0 064	+ 0 07	4234
610		+ 3 2715	+ 0 0447		+ 19 907	- 0 067		
611	T Ursæ Majoris Var 3	+ 2 7650	F 0 0377		+ 19 881	- 0 062		
612		+ 3 3043	+ 0 0476		+ 19 873	- 0 074		
613	R Virginis Var 2	+ 3 0471	- 0 0008		+ 19 865	- 0 070		
614		+ 2 7382	- 0 0376		+ 19 858	- 0 065		
615	26 Virginis χ	+ 3 0959	+ 0 0075	- 0 006	+ 19 857	- 0 072	+ 0 04	4257
616		+ 2 7161	- 0 0384		+ 19 850	- 0 066		
617	5830 Taylor	+ 3 3478	+ 0 0518		+ 19 829	- 0 082		
618	XII 592 W B E	+ 3 0841	+ 0 0056		+ 19 808	- 0 080		
619	S Ursæ Majoris Var 2	+ 2 6602	- 0 0360		+ 19 781	- 0 073		
620		+ 3 0883	+ 0 0062		+ 19 756	- 0 086		
621		+ 3 3740	+ 0 0490		+ 19 738	- 0 095		
622		+ 3 3795	+ 0 0490		+ 19 725	- 0 097		
623		+ 3 4517	+ 0 0611		+ 19 718	- 0 100		
624		+ 3 3998	+ 0 0512		+ 19 706	- 0 100		
625		+ 3 3622	+ 0 0449		+ 19 705	- 0 099		
626		+ 3 2763	+ 0 0313		+ 19 699	- 0 098		
627		+ 3 0426	+ 0 0009		+ 19 696	- 0 090		
628	U Virginis Var 3	+ 3 0438	+ 0 0012		+ 19 683	- 0 093		
629	2922 Radcliffe	+ 2 5424	- 0 0344		+ 19 668	- 0 080		
630		+ 3 0414	+ 0 0010		+ 19 667	- 0 095		

603 — Proper Motions adopted from *Stone's Catalogue*615 — Proper Motions from Mr Stone's list *Mem R A S* Vol 33

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
	631 40 Virginis ψ	53		12	47	16 98	98	47	58 3	2	0 30
	632 99 R P L	56		12	48	9 91	5	50	52 8	1	0 38
	633	78	1	12	49	23 85	145	34	11 3	1	0 37
	634 12 Canum Venaticorum	30		12	49	39 61	50	56	48 11	11	0 36
	635 5974 Taylor	87	1	12	51	54 65	143	38	34 3	1	0 41
16 49	636	88	1	12	53	16 48 ^G	143	40	22 3	1	0 38
	637	92	1	12	54	37 89	139	18	22 8	1	0 39
	638	103	2	12	56	11 01	113	12	31 9	2	0 31
	639 5381 Lacaille	88	1	12	57	7 84	129	57	6 1	1	0 40
6 43	640	91	2	12	58	6 24 ²	124	28	41 6	2	0 37
	641 50 Virginis	60	2	13	2	38 28	99	36	11 3	3	0 33
	642 51 Virginis θ	48		13	2	54 57	97	48	44 1	11	0 36
	643	90	1	13	4	32 13	138	10	32 3	1	0 41
4 5 48	644 W Virginis Var 1	84	3	13	6	54 18	105	49	54 7	4	0 29
	645	81	2	13	9	45 48 ⁸	129	56	15 7	2	0 37
	646 58 Virginis	67		13	10	19 73	99	49	12 7	1	0 23
	647 101 R P L	75		13	10	26 11	1	37	17 6	3	0 49
12 57	648 6129 Taylor	74	2	13	12	12 95 ²	180	28	30 4	2	0 38
	649	78	1	13	12	53 10	122	56	34 2	1	0 33
	650 5503 Lacaille	78	1	13	14	8 92	125	23	51 4	2	0 35
	651 13563 O A N	85	1	13	15	24 40	27	53	14 0	1	0 41
	652	88	1	13	15	47 75	145	12	51 0	1	0 39
	653 67 Virginis α (<i>Spica</i>)	10		13	18	1 85	100	27	1 9	14	0 35
	654 V Virginis Var 7	93	1	13	20	46 90	92	27	59 2	1	0 29
	655 R Hydrae Var 1	55	1	13	22	17 30	112	34	38 9	1	0 37
	656	108	1	13	23	18 12	88	38	73	1	0 32
	657 6257 Taylor	85	1	13	25	36 07	148	48	21 6	1	0 42
	658 76 Virginis h	63		13	25	48 49	99	27	47 4	3	0 35
	659 S Virginis Var 6	70	2	13	25	53 98	96	29	41 9	2	0 34
	660	88	1	13	26	37 79	131	35	11 9	1	0 42
	661 79 Virginis 3	40		13	27	45 87	89	53	55 7	15	0 36
	662	93	2	13	36	31 31	144	38	18 5	2	0 41
	663 6363 Taylor	88	1	13	36	38 28	147	33	27 4	1	0 40
	664	96	2	13	37	30 37 ²⁵	123	48	3 4	2	0 37
31 25	665	77	1	13	37	31 18 ²⁵	128	40	16 9	1	0 38

632 — 1940 Groombridge
 644 — W Virginis Var 1 — Irregularly variable from 7th to 10.5 magnitude
 647 — 2006 Groombridge
 651 — Comparison star for Comet 2 1861
 654 — V Virginis Var 7 — Period 251 days — Range 7th to below 13th magnitude
 655 — R Hydrae Var 1 — Period about 15 months — Range 4th to 10th magnitude
 656 — Observed by mistake for Europa
 659 — S Virginis Var 6 — Period 374 days — Range, 6th to 12th magnitude.

12 5

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>				
631	40 Virginis ψ	+ 3 1145	+ 0 0092	- 0 002	+ 19 630	- 0 101	+ 0 04	4330
632	99 R P L	+ 0 3486	+ 0 2263	- 0 017	+ 19 613	- 0 018	- 0 04	4342
633		+ 3 4892	+ 0 0586		+ 19 591	- 0 117		
634	12 Crn Venatorum	+ 2 8388	- 0 0152	- 0 023	+ 19 587	- 0 098	- 0 06	4346
635	5974 Taylor	+ 3 4799	+ 0 0546		+ 19 542	- 0 122		
636		+ 3 4910	+ 0 0549		+ 19 515	- 0 124		
637		+ 3 4392	+ 0 0465		+ 19 488	- 0 127		
638		+ 3 2112	+ 0 0184		+ 19 455	- 0 122		
639	5381 Lacaille	+ 3 3484	+ 0 0335		+ 19 436	- 0 128		
640		+ 3 3023	+ 0 0278		+ 19 413	- 0 129		
641	50 Virginis	+ 3 1331	+ 0 0104	- 0 001	+ 19 310	- 0 131	+ 0 02	4397
642	51 Virginis θ	+ 3 1025	+ 0 0078	- 0 004	+ 19 305	- 0 132	+ 0 04	4401
643		+ 3 4873	+ 0 0459		+ 19 265	- 0 150		
644	W Virginis Var 1	+ 3 1812	+ 0 0142		+ 19 206	- 0 142		
645		+ 3 4075	+ 0 0346		+ 19 133	- 0 157		
646	58 Virginis	+ 3 1421	+ 0 0108	- 0 007	+ 19 118	- 0 147	- 0 01	4442
647	101 R P L	- 11 2142	+ 3 3584		+ 19 115	+ 0 487		
648	6129 Taylor	+ 3 4257	+ 0 0353		+ 19 067	- 0 163		
649		+ 3 3430	+ 0 0273		+ 19 049	- 0 161		
650	5503 Lacaille	+ 3 3742	+ 0 0298		+ 19 014	- 0 164		
651	13563 O A N	+ 2 2557	- 0 0189		+ 18 980	- 0 114		
652		+ 3 0971	+ 0 0629		+ 18 968	- 0 133		
653	67 Virginis α (<i>Spica</i>)	+ 3 1543	+ 0 0116	- 0 005	+ 18 904	- 0 163	+ 0 04	4480
654	V Virginis Var 7	+ 3 0919	+ 0 0073		+ 18 822	- 0 164		
655	R Hydræ Var 1	+ 3 2674	+ 0 0192	+ 0 002	+ 18 777	- 0 176	- 0 01	4501
656		+ 3 0607	+ 0 0055		+ 18 746	- 0 267		
657	6257 Taylor	+ 3 3778	+ 0 0761		+ 18 672	- 0 215		
658	76 Virginis h	+ 3 1536	+ 0 0113	- 0 004	+ 18 666	- 0 176	+ 0 02	4521
659	S Virginis Var 6	+ 3 1278	+ 0 0096		+ 18 663	- 0 175		
660		+ 3 5099	+ 0 0379		+ 18 639	- 0 197		
661	79 Virginis 3	+ 3 0711	+ 0 0064	- 0 019	+ 18 603	- 0 176	- 0 06	4532
662		+ 3 8424	+ 0 0642		+ 18 302	- 0 237		
663	6363 Taylor	+ 3 9329	+ 0 0733		+ 18 298	- 0 243		
664		+ 3 4415	+ 0 0292		+ 18 267	- 0 215		
665		+ 3 5138	+ 0 0346		+ 18 267	- 0 220		

641—646—658—Proper Motions from Mr Stone's list *Mem R A S* Vol 33655—Proper Motions adopted from "*Greenwich Catalogue*"

Mean Positions of Stars for 1864 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>						
3373	666	8.6	2	13	39	13 86 ⁸	122	47	4.2	2	0.36	
	667	8.2	2	13	38	33 7 ⁷	152	45	59.9	2	0.38	
	668	9.2	1	13	40	30.30	129	24	0.6	1	0.34	
	669	85 Ursae Majoris η	2.3		13	42	10.62	40	0	25.4	3	0.36
	670		8.4	2	13	43	11.39	123	6	31.9	2	0.36
	671		8.2	1	13	43	24.14	123	13	4.9	1	0.38
	672		9.0		13	44	15.25	127	56	40.9	1	0.41
	673		9.0	1	13	45	23.48	128	23	4.5	1	0.41
	674		8.5	1	13	45	42.40	122	54	31.3	2	0.38
	675	8 Bootis η	3.0		13	48	12.51	70	55	10.5	13	0.37
676		8.3	2	13	50	11.62	123	43	44.0	2	0.32	
677		8.0	1	13	50	40.64	123	43	55.5	1	0.30	
678		8.4	1	13	53	7.76	135	10	51.4	1	0.36	
679	98 Virginis τ	4.5		13	54	43.58	87	47	45.3	13	0.38	
499	680	5794 Lacaille	6.3	1	13	57	4 50 ³	152	47	34.6	1	0.39
681	6585 Taylor	7.7	1	14	1	22.44	124	14	9.6	1	0.34	
682		9.0	2	14	2	25.96	129	4	15.2	2	0.41	
683	U Bootis Var 4	9.5	3	14	4	21.64	79	32	32.2	3	0.38	
684	6616 Taylor	5.7	1	14	5	30.32	146	26	48.4	1	0.37	
3863	685	98 Virginis κ	4.3		14	5	38.6 ³	99	38	20.2	2	0.38
686		8.2	1	14	6	8.79	185	1	18.1	1	0.36	
687	16 Bootis α (<i>Arcturus</i>)	1.0		14	9	27.55	70	6	30.0	6	0.42	
688	100 Virginis λ	5.0		14	11	45.19	102	44	35.8	5	0.38	
689		9.6	1	14	12	30.81	136	40	53.7	1	0.31	
690		8.9	2	14	14	34.88	122	35	44.6	2	0.44	
691		8.7	1	14	15	19.50	122	11	35.0	1	0.37	
692	6709 Taylor	7.0	1	14	15	58.65	119	3	19.6	1	0.42	
693	2 Librae	6.7		14	16	6.76	101	5	28.8	1	0.31	
694	5926 Lacaille	8.3	3	14	16	40.24	118	59	58.2	3	0.42	
695	6721 Taylor	7.0		14	17	22.38	101	3	1.7	1	0.30	
696		10.0	1	14	17	24.96	123	13	23.0	1	0.42	
697	6740 Taylor	7.5	3	14	19	5.08	133	42	56.0	3	0.43	
698		9.3	1	14	21	57.61	122	33	58.6	1	0.41	
699	5962 Lacaille	7.5	1	14	22	42.28	129	46	44.0	1	0.32	
700		8.0		14	23	42.53	136	54	23.6	1	0.46	

683 — U Bootis Var 4 — Period uncertain — Range 8.7 to 12th magnitude

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 1299	+ 0 0283		+ 18 240	- 0 216		
667		+ 4 1552	+ 0 0964		+ 18 299	- 0 261		
668		+ 3 5384	+ 0 0350		+ 18 158	- 0 228		
669	95 Ursæ Majoris γ	+ 2 3850	- 0 0103	- 0 012	+ 18 095	- 0 159	+ 0 03	4607
670		+ 3 4517	+ 0 0287		+ 18 055	- 0 227		
671		+ 3 4538	+ 0 0288		+ 18 048	- 0 228		
672		+ 3 5301	+ 0 0341		+ 18 016	- 0 235		
673		+ 3 5421	+ 0 0346		+ 17 972	- 0 238		
674		+ 3 4571	+ 0 0286		+ 17 960	- 0 233		
675	8 Bootis η	+ 2 8617	- 0 0006	- 0 004	+ 17 861	- 0 199	+ 0 36	4648
676		+ 3 4849	+ 0 0295		+ 17 781	- 0 243		
677		+ 3 1860	+ 0 0295		+ 17 762	- 0 244		
678		+ 3 7208	+ 0 0453		+ 17 661	- 0 265		
679	93 Virginis τ	+ 3 0475	+ 0 0064	+ 0 001	+ 17 594	- 0 211	+ 0 07	4672
680	5794 Lacaille	+ 4 3436	+ 0 0996		+ 17 494	- 0 318		
681	6585 Taylor	+ 3 5317	+ 0 0302		+ 17 307	- 0 263		
682		+ 3 6249	+ 0 0357		+ 17 260	- 0 276		
683	U Bootis Var 4	+ 2 9447	+ 0 0035		+ 17 174	- 0 229		
684	6616 Taylor	+ 4 1217	+ 0 0686		+ 17 122	- 0 320		4709
685	98 Virginis κ	+ 3 1905	+ 0 0122	+ 0 001	+ 17 117	- 0 250	- 0 02	4716
686		+ 3 7719	+ 0 0445		+ 17 093	- 0 295		
687	16 Bootis α (Arcturus)	+ 2 8132	+ 0 0004	- 0 079	+ 16 941	- 0 227	+ 1 93	4729
688	100 Virginis λ	+ 3 2365	+ 0 0140	- 0 002	+ 16 832	- 0 264	- 0 02	4743
689		+ 3 5509	+ 0 0477		+ 16 795	- 0 314		
690		+ 3 5458	+ 0 0284		+ 16 696	- 0 293		
691		+ 3 5408	+ 0 0281		+ 16 659	- 0 294		
692	6709 Taylor	+ 3 4875	+ 0 0252		+ 16 627	- 0 292		
693	2 Librae	+ 3 2188	+ 0 0132	- 0 004	+ 16 621	- 0 270	+ 0 09	4765
694	5926 Lacaille	+ 3 4882	+ 0 0252		+ 16 594	- 0 293		
695	6721 Taylor	+ 3 2194	+ 0 0132		+ 16 559	- 0 272		4772
696		+ 3 5662	+ 0 0292		+ 16 557	- 0 301		
697	6740 Taylor	+ 3 8011	+ 0 0423		+ 16 474	- 0 323		
698		+ 3 5678	+ 0 0285		+ 16 329	- 0 309		
699	5962 Lacaille	+ 3 7213	+ 0 0365		+ 16 291	- 0 324		
700		+ 3 9106	+ 0 0476		+ 16 240	- 0 342		

Mean Positions of Stars for 1864 January 1st

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
	701	8.4	2	11	24	12.75	123	48	30.8	2	0.44
	702	14634 O A N	7.0	14	25	51.40	20	8	24.1	1	0.46
58 05	703	25 Bootis ρ	4.0	14	25	58.06	59	1	49.2	8	0.41
	704	14652 O A N	8.5	14	27	1.18	20	0	57.6	1	0.46
	705	R Camelopardi Var 1	10.8	14	28	9.31	5	33	16.5	1	0.34
	706		8.0	14	29	26.79	124	55	30.2	1	0.39
	707	α Centauri (2nd)	1.0	14	30	23.07	150	16	21.0	2	0.44
	708		8.3	14	32	42.12	121	44	17.9	1	0.39
	709	α Lupi	5.8	14	32	54.02	136	48	6.9	1	0.42
	710	36 Bootis ϵ (M ₁₁ ac)	2.3	14	39	28.4	62	21	3.7	11	0.44
20 44	711		7.7	14	39	20.44	124	9	35.1	2	0.40
	712		8.8	14	42	21.84	129	6	50.7	2	0.36
	713	9 Libræ α	2.3	14	43	21.52	105	28	28.0	12	0.43
	714	β Ursæ Minoris Var 1	2.0	14	51	8.11	15	17	10.1	1	0.41
	715		9.1	14	51	23.24	39	19	38.3	1	0.39
	716		9.0	14	51	35.46	123	12	48.3	1	0.49
02 26	717	6991 Taylor	6.4	14	51	52.36	39	48	49.7	1	0.39
	718	15004 O A N	7.5	14	53	52.88	39	21	8.3	1	0.39
	719	15023 O A N	7.5	14	55	39.47	27	47	28.9	1	0.46
	720	43 Bootis ψ	5.0	14	58	37.08	62	31	14.3	8	0.44
	721	7079 Taylor	6.7	15	3	19.98	123	7	14.8	1	0.49
	722	15138 O A N	9.2	15	4	7.39	43	0	6.3	1	0.40
28 28	723	24 Libræ ϵ^1	5.3	15	4	28.28	109	16	20.1	2	0.38
44 18	724	111 R P L	6.9	15	5	45.19	5	31	23.7	1	0.39
	725	27 Libræ β	2.0	15	9	41.44	98	51	48.6	7	0.45
	726		9.5	15	14	12.39	123	7	30.8	1	0.40
	727		8.7	15	20	23.57	180	8	34.7	3	0.48
	728	32 Libræ ζ^1	4.0	15	20	35.48	106	14	22.2	1	0.46
	729		7.5	15	21	40.06	129	25	58.8	1	0.40
	730	XV 395 W B E	8.9	15	21	58.56	101	15	30.5	2	0.54
	731	114 R P L	6.9	15	22	29.01	2	14	59.0	1	0.97
	732	XV 429 W B E	9.4	15	24	2.57	101	28	30.0	2	0.56
	733	7240 Taylor	7.5	15	24	24.18	130	1	28.8	1	0.36
	734	3394 Padcliffe	8.0	15	25	3.61	41	49	6.2	1	0.46
	735	38 Libræ γ	4.3	15	27	55.27	104	20	0.1	4	0.88

702 — 704 — 719 — 734 — Comparison stars for Comet 2 1862

705 — R Camelopardi Var 1 — Period 266 days — Range 8th to 12th magnitude

714 — β Ursæ Minoris Var 1 — (Kochab) — Supposed to vary irregularly from 2nd to 2.5 magnitude

715 — 717 — 718 — 722 — Comparison stars for Comet 2 1861

724 — 2213 Groombridge

730 — 732 — Comparison stars for Sappho in 1864

731 — 2283 Groombridge

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		+ 3 5990	+ 0 0297		+ 16 214	- 0 316		
702	14634 O A N	+ 0 9053	+ 0 0359		+ 16 199	- 0 085		
703	25 Bootis ρ	+ 2 5948	- 0 0015	- 0 008	+ 16 124	- 0 233	- 0 14	4808
704	14652 O A N	+ 0 8876	+ 0 0366		+ 16 068	- 0 084		
705	R Camelopardi Var 1	- 5 2092	+ 1 0886		+ 16 008	- 0 451		
706		+ 2 6386	+ 0 0306		+ 15 941	- 0 329		
707	α Centauri (2nd)	+ 4 4996	+ 0 0878	- 0 476	+ 15 894	- 0 410	- 0 81	4832
708		+ 3 5833	+ 0 0274		+ 15 766	- 0 330		
709	α Lupi	+ 3 9531	+ 0 0472		+ 15 755	- 0 364		4839
710	36 Bootis ϵ (Mual)	+ 2 6240	- 0 0001	- 0 005	+ 15 417	- 0 252	- 0 01	4876
711		+ 3 6532	+ 0 0294		+ 15 400	- 0 349		
712		+ 3 796	+ 0 0350		+ 15 227	- 0 366		
713	9 Libræ α	+ 3 3140	+ 0 0154	- 0 007	+ 15 173	- 0 324	+ 0 06	4895
714	β Uisæ Minoris Var 1	- 0 2500	+ 0 1022	- 0 005	+ 14 719	+ 0 018	+ 0 03	4936
715		+ 1 9023	+ 0 0014		+ 14 704	- 0 201		
716		+ 3 6679	+ 0 0250		+ 14 692	- 0 370		
717	6991 Taylor	+ 1 9789	+ 0 0013		+ 14 675	- 0 203		4937
718	15004 O A N	+ 1 9503	+ 0 0017		+ 14 554	- 0 202		
719	15023 O A N	+ 1 8126	+ 0 0151		+ 14 447	- 0 139		
720	43 Bootis ψ	+ 2 5833	+ 0 0010	- 0 013	+ 14 262	- 0 231	0 00	4969
721	7079 Taylor	+ 3 6978	+ 0 0273		+ 13 974	- 0 393		
722	15138 O A N	+ 2 0403	+ 0 0015		+ 13 924	- 0 220		
723	24 Libræ ι^1	+ 3 4090	+ 0 0171	- 0 002	+ 13 902	- 0 364	+ 0 04	4995
724	111 R P I	- 6 9459	+ 1 1880		+ 13 821	+ 0 728		5022
725	27 Libræ β	+ 3 2258	+ 0 0117	- 0 009	+ 13 569	- 0 353	+ 0 01	5034
726		+ 3 7260	+ 0 0264		+ 13 275	- 0 114		
727		+ 3 9870	+ 0 0332		+ 12 860	- 0 447		
728	32 Libræ ζ^1	+ 3 3711	+ 0 0148	+ 0 002	+ 12 852	- 0 384	+ 0 03	5089
729		+ 3 9195	+ 0 0322		+ 12 779	- 0 445		
730	XV 395 W B E	+ 3 2775	+ 0 0124		+ 12 758	- 0 374		
731	114 R I L	- 23 2282	+ 7 7947		+ 12 724	+ 2 614		5140
732	XV 429 W B E	+ 3 2831	+ 0 0125		+ 12 619	- 0 377		
733	7240 Taylor	+ 3 9460	+ 0 0325		+ 12 594	- 0 453		
734	3394 Radcliffe	+ 1 9064	+ 0 0037		+ 12 549	- 0 222		
735	38 Libræ γ	+ 3 3413	+ 0 0136	+ 0 002	+ 12 352	- 0 389	- 0 02	5134

707 — Proper Motions adopted from *Stones Catalogue*
 728 — Proper Motions adopted from *Greenwich Catalogue*

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
736	5 Cor Bor α (<i>Alpha</i>)	2 0		15	28	55 81	62	49	33 6	5	0 49
737		9 8	1	15	29	12 53	119	40	28 0	1	0 42
738		9 0	1	15	30	9 95	129	33	27 5	1	0 40
739	28530 Lalande	9 5	1	15	31	50 66	47	25	19 7	1	0 46
740	XV 645 W B E	8 2	2	15	34	22 58	102	19	15 9	3	0 48
741	XV 675 W B E	9 2	3	15	35	56 43	102	41	26 6	3	0 48
742	24 Serpentis α	2 3		15	37	34 18	83	8	39 1	7	0 48
743		9 5	2	15	41	26 72	62	3	16 3	2	0 40
744		10 0	1	15	42	32 18	61	46	38 9	1	0 39
745	R Serpentis Var 2	7 4	1	15	44	25 44	74	27	6 8	1	0 50
746	3462 Radcliffe	8 0	1	15	46	20 61	47	1	30 6	1	0 46
747	28970 Lalande	7 8	1	15	47	57 96	70	49	3 7	1	0 56
748	28980 Lalande	6 1	2	15	48	54 37	104	25	44 7	3	0 48
749	16 Ursæ Minoris 3	4 0		15	48	59 55	11	47	19 8	2	0 49
750		9 0	2	15	49	24 72	108	59	1 0	3	0 49
751	29054 Lalande	8 6	3	15	50	30 87	104	3	3 0	3	0 42
752	8 Scorpi β	2 0		15	57	31 94	109	25	48 7	7	0 45
753		8 3	3	15	59	58 54	105	16	22 1	3	0 43
754	15281 O A S	9 3	3	16	0	53 47	105	43	43 2	3	0 41
755	14 Scorpi ν	4 3		16	4	5 68	109	6	15 7	2	0 35
756	116 R P L	6 9		16	4	43 76	4	18	46 2	1	0 01
757	15412 O A S	9 3	3	16	6	18 59	106	3	7 8	3	0 42
758	15418 O A S	8 7	3	16	6	30 91	106	11	31 1	3	0 44
759	1 Ophiuchi δ	3 0		16	7	13 22	93	20	30 5	5	0 50
760	15544 O A S	8 7	3	16	12	46 73	103	45	6 3	3	0 41
761	20 Scorpi σ	3 3		16	12	55 52	115	15	47 4	3	0 41
762	15552 O A S	9 2	1	16	13	13 89	107	22	1 0	1	0 50
763		8 9	1	16	15	46 22	128	7	41 2	1	0 46
764	21 Scorpi α (<i>Antares</i>)	1 3		16	21	4 32	116	7	36 9	10	0 47
765	30 Herculis γ Var 5	5 5	1	16	24	10 48	47	49	3 4	1	0 46
766	13 Ophiuchi 3	3 3		16	29	40 28	100	17	19 7	1	0 54
767	5784 Brisbane	9 5	1	16	30	54 00	150	39	26 0	1	0 40
768	40 Herculis δ	2 7		16	36	9 60	58	8	57 5	7	0 52
769		10 0	1	16	44	52 33	75	16	41 4	1	0 42
770	27 Ophiuchi κ	3 7		16	51	13 82	80	24	40 0	7	0 56

31 95

33 30

739 — 747 — Comparison stars for Comet 2 1862
 740 — 741 — 748 — 750 — 751 — 753 — 754 — 757 — 758 — 760 — Comparison stars for Sappho in 1864
 745 — R Serpentis Var 2 — Period 355 days — Range 6th to 11th magnitude
 756 — 2423 Carrington
 765 — 30 Herculis γ Var 5 — Changes irregularly from 5th to 6.3 magnitude

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	5 Coronæ Borealis α	+ 2 5294	+ 0 0023	+ 0 009	+ 12 283	- 0 297	+ 0 07	5143
737		+ 3 6749	+ 0 0224		+ 12 262	- 0 429		
738		+ 3 9487	+ 0 0314		+ 12 197	- 0 463		
739	28530 Lalande	+ 2 0914	+ 0 0025		+ 12 080	- 0 249		
740	XV 645 W B E	+ 3 3071	+ 0 0125		+ 11 903	- 0 393		
741	XV 675 W B E	+ 3 3156	+ 0 0126		+ 11 792	- 0 396		
742	24 Serpentis α	+ 2 9413	+ 0 0062	+ 0 009	+ 11 677	- 0 354	- 0 05	5196
743		+ 2 4886	+ 0 0027		+ 11 399	- 0 304		
744		+ 2 4795	+ 0 0027		+ 11 320	- 0 304		
745	R Serpentis Var 2	+ 2 7634	+ 0 0043		+ 11 183	- 0 340		
746	3462 Radcliffe	+ 2 0323	+ 0 0033		+ 11 044	- 0 252		
747	28970 Lalande	+ 2 6821	+ 0 0039		+ 10 925	- 0 333		
748	28980 Lalande	+ 3 3614	+ 0 0127		+ 10 856	- 0 417		
749	16 Ursæ Minors 3	- 2 3157	+ 0 2043	+ 0 029	+ 10 850	+ 0 279	+ 0 08	5285
750		+ 3 3524	+ 0 0125		+ 10 819	- 0 417		
751	29054 Lalande	+ 3 3540	+ 0 0125		+ 10 738	- 0 418		
752	3 Scorpi β^1	+ 3 4778	+ 0 0142	- 0 002	+ 10 214	- 0 441	+ 0 02	5329
753		+ 3 3833	+ 0 0123		+ 10 029	- 0 432		
754	15281 O A S	+ 3 3990	+ 0 0124		+ 9 953	- 0 435		
755	14 Scorpi ν	+ 3 4772	+ 0 0136	- 0 002	+ 9 715	- 0 443	+ 0 03	5382
756	116 R P L	- 12 4940	+ 1 7618		+ 9 667	+ 1 593		
757	15412 O A S	+ 3 4104	+ 0 0122		+ 9 545	- 0 442		
758	15418 O A S	+ 3 4135	+ 0 0123		+ 9 529	- 0 442		
759	1 Ophiuchi δ	+ 3 1408	+ 0 0081	- 0 006	+ 9 476	- 0 408	+ 0 13	5414
760	15544 O A S	+ 3 4313	+ 0 0119		+ 9 044	- 0 451		
761	20 Scorpi σ	+ 3 5354	+ 0 0156	- 0 003	+ 9 033	- 0 478	- 0 01	5447
762	15552 O A S	+ 3 4457	+ 0 0121		+ 9 009	- 0 453		
763		+ 4 0143	+ 0 0233		+ 8 810	- 0 580		
764	21 Scorpi α (<i>Antares</i>)	+ 3 6676	+ 0 0150	- 0 001	+ 8 391	- 0 491	+ 0 03	5498
765	30 Hercules Var 5	+ 1 9649	+ 0 0042	+ 0 005	+ 8 144	- 0 265	- 0 07	5523
766	13 Ophiuchi 3	+ 3 2062	+ 0 0088	+ 0 001	+ 7 701	- 0 447	- 0 03	5548
767	5784 Brisbane	+ 5 2731	+ 0 0545		+ 7 601	- 0 715		5554
768	40 Hercules 3	+ 2 2963	+ 0 0033	- 0 034	+ 7 175	- 0 316	- 0 45	5604
769		+ 2 7395	+ 0 0039		+ 6 457	- 0 381		
770	27 Ophiuchi κ	+ 2 8562	+ 0 0044	- 0 023	+ 5 928	- 0 402	- 0 02	5708

749 — 766 — Proper Motions adopted from *Greenwich Catalogue*770 — Proper Motion adopted from *Stones's Catalogue,*

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
771	16232 O A S	98	1	16	53	57 53	110	14	43 5	1	0 56
772	16233 O A S	80	1	16	53	58 32	110	23	35 0	1	0 53
16 75 - - 773		77	1	16	55	58 27	109	56	33 8	1	0 42
34 89 774	22 Ursæ Minoris ε	40		17	0	1 41	7	44	41 4	6	0 55
775	35 Ophiuchi η	23		17	2	34 8 ⁸	105	33	10 3	2	0 42
776		90	1	17	5	44 18	130	50	23 7	1	0 56
777	64 Hercules α Var 1	30		17	8	26 77	75	27	8 1	8	0 55
778		82	1	17	9	1 79	124	4	16 2	1	0 49
779		98	1	17	11	57 45 ^{8 12}	130	27	39 3	1	0 56
21 25 780	8017 Taylor	67	1	17	13	21 2 ³	114	45	54 6	3	0 49
781	42 Ophiuchi θ	33		17	13	39 53	114	51	36 4	5	0 56
782	44 Ophiuchi b	50	1	17	13	3 97	114	2	48 4	1	0 62
783	δ Aræ	67	1	17	13	49 67	150	33	55 7	2	0 48
784		33	1	17	21	22 44	130	32	55 8	1	0 56
785		84	1	17	21	22 60	130	50	57 0	1	0 62
786		87	1	17	28	25 03	125	14	39 7	1	0 53
787	55 Ophiuchi α	20		17	28	37 24	77	20	18 4	5	0 55
788		89	1	17	29	22 89	130	56	24 1	1	0 56
789		93	1	17	34	31 16	126	15	0 4	1	0 56
790		98	1	17	39	16 94	127	17	24 4	1	0 56
791		85	1	17	39	43 84	127	14	36 4	1	0 54
792	86 Hercules μ	33		17	41	8 20	62	11	52 4	2	0 56
793	31 Draconis ψ ¹ (1st)	65	1	17	44	22 18	17	47	6 9	1	0 46
794		89	1	17	45	2 69	128	47	39 5	1	0 60
795	7504 Lacaille	70	1	17	48	32 17	129	47	48 6	1	0 60
796		87	3	17	50	25 20	130	50	22 6	3	0 57
797	7518 Lacaille	70	1	17	52	43 11	149	12	14 6	1	0 62
798	33 Draconis γ (Etanm)	25		17	53	26 91	38	29	39 1	1	0 61
799	8855 Taylor	55	1	17	56	59 84	133	25	39 0	1	0 60
800		92	2	18	1	13 76	131	43	35 0	2	0 58
801		90	1	18	2	49 27	131	40	29 2	1	0 56
802	T Hercules Var 4	82	1	18	3	57 37	53 59 52 7			1	0 62
803	13 Sagittari μ	45		18	5	37 75	111	5	27 7	4	0 61
804	15 Sagittari	50	1	18	7	6 02	110	45	54 7	1	0 62
805	8461 Taylor	61	1	18	14	24 47	134	10	24 8	1	0 62

777 — α Hercules Var 1 — Changes irregularly between 3rd and 4th magnitudes
 786 — 789 — 791 — 795 — 799 — 800 — 801 — Comparison stars for Donati's Comet of 1858
 802 — T Hercules Var 4 — Period 165 days — Range 7 5 to 12th magnitude

16 75 - -
34 89
[5818]
21 25

6
44
59 0 44

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>				
771	16232 O A S	+ 3 5449	+ 0 0093		+ 5 699	- 0 498		
772	16233 O A S	+ 3 5486	+ 0 0093		+ 5 698	- 0 498		
773		+ 3 5380	+ 0 0091		+ 5 590	- 0 498		
774	22 Ursæ Minoris ϵ	+ 6 4245	+ 0 3088	+ 0 009	+ 5 188	+ 0 903	- 0 01	5780
775	35 Ophiuchi η	+ 3 4325	+ 0 0074	+ 0 001	+ 4 972	- 0 487	- 0 12	5781
776		+ 4 1956	- 0 0148		+ 4 704	- 0 597		
777	64 Hercules α Var 1	+ 2 7338	+ 0 0035	- 0 003	+ 4 473	- 0 391	- 0 04	5821
778		+ 3 9540	+ 0 0113		+ 4 424	- 0 565		
779		+ 4 1875	+ 0 0132		+ 4 173	- 0 599		
780	8017 Taylor	+ 3 6761	+ 0 0080		+ 4 053	- 0 527		5846
781	42 Ophiuchi θ	+ 3 6788	+ 0 0080	- 0 003	+ 4 028	- 0 528	- 0 02	5851
782	44 Ophiuchi δ	+ 3 6587	+ 0 0073	- 0 002	+ 3 649	- 0 527	+ 0 12	5876
783	δ Aræ	+ 5 4035	+ 0 0269	- 0 009	+ 3 584	- 0 778	+ 0 09	5877
784		+ 4 1997	+ 0 0109		+ 3 364	- 0 605		
785		+ 4 2118	+ 0 0110		+ 3 364	- 0 607		
786		+ 4 0077	+ 0 0079		+ 2 755	- 0 580		
787	55 Ophiuchi α	+ 2 7745	+ 0 0080	+ 0 004	+ 2 737	- 0 402	+ 0 20	5941
788		+ 4 2215	+ 0 0091		+ 2 671	- 0 611		
789		+ 4 0465	+ 0 0069		+ 2 221	- 0 587		
790		+ 4 0860	+ 0 0061		+ 1 811	- 0 594		
791		+ 4 0846	+ 0 0060		+ 1 771	- 0 594		
792	86 Hercules μ	+ 2 3694	+ 0 0025	- 0 026	+ 1 649	- 0 346	+ 0 74	6021
793	31 Draconis ψ^1 (1st)	- 1 0861	+ 0 0155	- 0 002	+ 1 367	+ 0 157	+ 0 26	6047
794		+ 4 1446	+ 0 0049		+ 1 308	- 0 604		
795	7504 Lacaille	+ 4 1578	+ 0 0042		+ 1 002	- 0 806		
796		+ 4 2267	+ 0 0042		+ 0 838	- 0 616		
797	7518 Lacaille	+ 5 3142	+ 0 0052		+ 0 637	- 0 775		
798	33 Draconis γ	+ 1 3915	+ 0 0030	0 000	+ 0 573	- 0 203	+ 0 04	6091
799	8355 Taylor	+ 4 3375	+ 0 0024	- 0 006	+ 0 263	- 0 632	+ 0 12	6112
800		+ 4 2644	+ 0 0011		- 0 107	- 0 622		
801		+ 4 2650	+ 0 0007		- 0 247	- 0 622		
802	T Hercules Var 4	+ 2 2688	+ 0 0021		- 0 346	- 0 331		
803	13 Sagittari μ	+ 3 5875	+ 0 0009	- 0 004	- 0 492	- 0 523	+ 0 01	6168
804	15 Sagittari	+ 3 5788	+ 0 0008	- 0 006	- 0 621	- 0 522	+ 0 02	6179
805	8461 Taylor	+ 4 3684	- 0 0028		- 1 260	- 0 635		6228

783—799 — Proper Motions adopted from *Stone's Catalogue*804 — Proper Motions adopted from *Greenwich Catalogue*

Mean Positions of Stars for 1864 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>					
806	23 Ursæ Minoris δ	4.5		18	16	13.89	3	23	46.6	5	0.89
807	21 Sagittarii	5.0	1	18	17	14.94	110	36	40.7	1	0.62
808	δ^3 Telescopii	6.5	2	18	21	58.19	135	50	46.0	2	0.58
809		9.0	1	18	22	51.47	135	15	54.9	1	0.56
810	θ Coronæ Australis	6.0	1	18	23	47.14	132	24	22.3	1	0.63
811	β Lyræ α (<i>Vega</i>)	1.0		18	32	19.97	51	20	29.2	4	0.61
812	R Scuti Var 1	6.0	1	18	40	13.20	95	50	53.3	1	0.64
813	7872 Lacaille	6.0	1	18	42	20.14	136	45	1.7	1	0.63
814	7878 Lacaille	7.0	1	18	42	53.19	136	44	39.6	1	0.63
815	10 Lyræ β Var 1	4.0		18	45	3.41	56	47	36.5	3	0.66
816		9.7	1	18	46	54.04	137	44	56.1	1	0.65
817	β^3 Sagittarii β^3	4.0		18	49	36.78	111	16	55.7	1	0.54
818	13 Lyræ Var 2	4.3		18	51	11.38	46	13	51.3	1	0.61
819		7.9	2	18	54	10.43	122	56	13.2	2	0.60
820		10.0	2	18	57	17.42	111	21	8.9	2	0.63
821	17 Aquilæ ζ	3.3		18	59	9.45	76	20	11.7	7	0.66
822		9.5		19	0	51.71	82	1	34.1	1	0.59
823	41 Sagittarii π	4.5		19	1	40.55	111	14	12.3	1	0.54
824		9.0	1	19	3	6.08	139	22	42.7	1	0.65
825		8.0	2	19	3	13.49	122	51	6.1	2	0.56
826	T Sagittarii Var 3	8.0	4	19	8	23.18	107	12	22.8	4	0.61
827	R Sagittarii Var 1	10.0	1	19	8	42.57	109	32	38.4	1	0.65
828		9.5	1	19	9	6.37	109	32	47.9	1	0.64
829	43 Sagittarii d	5.0	1	19	9	40.56	109	11	30.8	1	0.62
830		8.1	1	19	10	0.19	107	9	40.9	1	0.70
831	25 Aquilæ ω	5.7		19	11	25.88	78	38	51.0	4	0.64
832	44 Sagittarii ρ^1	4.5		19	13	46.80	108	6	1.0	1	0.62
833		8.2	3	19	16	34.39	129	52	46.6	3	0.69
834	30 Aquilæ δ	3.5		19	18	33.37	87	9	14.5	7	0.65
835	52 Sagittarii h	5.0		19	28	25.64	115	10	49.9	5	0.65
836	8173 Lacaille	8.8	1	19	31	36.73	143	15	31.5	1	0.64
837	R Cygni Var 3	9.7	2	19	33	12.30	40	4	50.7	2	0.64
838		9.0	1	19	34	23.47	127	17	3.4	1	0.65
839	50 Aquilæ γ	3.0		19	39	47.49	79	42	57.4	3	0.65
840	S Vulpeculæ Var 3	9.6	1	19	42	49.26	63	3	1.8	2	0.64

810—813—814—Comparison stars for Donati's Comet of 1858

812—R Scuti Var 1—Period 71 days—Range, 5th to 8th magnitude

815— β Lyræ Var 1—Period 12.91 days—Range 3.5 to 4.5 magnitude

818—13 Lyræ Var 2—Period 46 days—Range 4.2 to 4.6 magnitude

819—825—Comparison stars for Diana in 1864

820—Observed by mistake for Eunomia

826—T Sagittarii Var 3—Period 381 days—Range 7.5 magnitude to invisibility

827—R Sagittarii Var 1—Period 270 days—Range 7th magnitude to invisibility

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>				
806	23 Ursæ Minoris δ	- 19 3984	- 0 4743	+ 0 048	- 1 418	+ 2 823	- 0 03	6281
807	21 Sagittarii	+ 3 5735	- 0 0004	- 0 003	- 1 508	- 0 519	+ 0 02	6247
808	δ^a Telescopii	+ 4 4429	- 0 0055	- 0 003	- 1 920	- 0 643	+ 0 05	6282
809		+ 4 4148	- 0 0059		- 1 997	- 0 640		
810	θ Coronæ Australis	+ 4 2866	- 0 0049	0 000	- 2 078	- 0 620	+ 0 03	6296
811	β Lyræ α (<i>Vega</i>)	+ 2 0130	+ 0 0016	+ 0 017	- 2 820	- 0 290	- 0 28	6355
812	R Scuti Var 1	+ 3 2069	- 0 0011		- 3 501	- 0 453		
813	7872 Lacaille	+ 4 4693	- 0 0122		- 3 683	- 0 689		
814	7878 Lacaille	+ 4 4684	- 0 0124		- 3 731	- 0 688		
815	10 Lyræ β Var 1	+ 2 2137	+ 0 0015	- 0 002	- 3 917	- 0 315	+ 0 03	6429
816		+ 4 5132	- 0 0142		- 4 076	- 0 643		
817	β^2 Sagittarii β^2	+ 3 5806	- 0 0043	- 0 001	- 4 308	- 0 508	+ 0 03	6461
818	13 Lyræ Var 2	+ 1 8232	+ 0 0008	- 0 001	- 4 442	- 0 257	0 00	6475
819		+ 3 9142	- 0 0085		- 4 696	- 0 553		
820		+ 3 5786	- 0 0053		- 4 961	- 0 503		
821	17 Aquilæ ζ	+ 2 7573	+ 0 0003	- 0 006	- 5 119	- 0 387	+ 0 07	6528
822		+ 2 8914	- 0 0004		- 5 263	- 0 405		
823	41 Sagittarii π	+ 3 5730	- 0 0057	- 0 004	- 5 332	- 0 500	+ 0 03	6548
824		+ 4 5721	- 0 0208		- 5 453	- 0 640		
825		+ 3 9023	- 0 0100		- 5 463	- 0 546		
826	T Sagittarii Var 3	+ 3 4673	- 0 0054		- 5 896	- 0 480		
827	R Sagittarii Var 1	+ 3 5256	- 0 0060		- 5 923	- 0 488		
828		+ 3 5254	- 0 0061		- 5 956	- 0 488		
829	43 Sagittarii d	+ 3 5161	- 0 0061	- 0 004	- 6 004	- 0 486	- 0 01	6584
830		+ 3 4659	- 0 0055		- 6 030	- 0 479		
831	25 Aquilæ ω	+ 2 8165	- 0 0003	- 0 003	- 6 150	- 0 388	- 0 02	6595
832	44 Sagittarii ρ^1	+ 3 4867	- 0 0061	- 0 003	- 6 345	- 0 480	- 0 03	6619
833		+ 4 1274	- 0 0164		- 6 576	- 0 565		
834	30 Aquilæ δ	+ 3 0094	- 0 0018	+ 0 014	- 6 748	- 0 410	- 0 10	6646
835	52 Sagittarii h^2	+ 3 6543	- 0 0102	+ 0 002	- 7 548	- 0 490	- 0 02	6706
836	8173 Lacaille	+ 3 7219	- 0 0358		- 7 805	- 0 631		
837	R Cygni Var 3	+ 1 6129	- 0 0015		- 7 933	- 0 213		
838		+ 4 0048	- 0 0179		- 8 029	- 0 533		
839	50 Aquilæ γ	+ 2 8520	- 0 0011	+ 0 001	- 8 459	- 0 373	0 00	6772
840	S Vulpeculæ Var 3	+ 2 4596	+ 0 0011		- 8 697	- 0 319		

808—810—Proper Motions adopted from *Stone's Catalogue*
818—Proper Motions adopted from *Greenwich Catalogue*,

Mean Positions of Stars for 1864 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>					
841	53 Aquilæ α (<i>Altair</i>)	1 3		19	44	8 79	81	29	18 2	2	0 65
842	χ Cygni Var 2	6 0	2	19	45	20 36	57	25	43 0	2	0 60
843	55 Aquilæ η Var 1	4 0		19	45	32 45	89	20	27 9	1	0 59
844	60 Aquilæ β	4 5		19	48	27 84	83	55	50 9	4	0 66
845		8 5	1	19	49	33 81	145	56	51 6	1	0 70
146		9 0	2	19	53	0 36	147	10	53 2	2	0 63
847		9 1	1	19	55	35 86	151	51	39 1	1	0 75
848	9208 Taylor	5 3	2	19	55	41 75	122	26	6 0	2	0 61
849	λ Ursæ Minoris	6 3		20	0	7 03	1	5	54 6	4	0 42
850	20046 O A N	9 2	1	20	2	39 55	32	23	32 3	1	0 54
851	R Capricorni Var 1	9 1	1	20	3	40 42	104	40	4 6	1	0 65
852	S Aquilæ Var 4	9 1	2	20	5	21 88	74	46	56 4	2	0 67
853		9 0	1	20	7	41 31	81	22	28 8	1	0 69
854	20356 O A S	8 2	1	20	8	22 17	110	26	8 1	1	0 75
855		7 0	1	20	10	28 82	149	9	1 6	1	0 70
856	6 Capricorni α^2	3 5		20	10	30 27	102	57	50 1	7	0 65
857	39045 Lalande	6 4	2	20	12	4 98	50	3	16 4	2	0 68
858	α Pavonis	2 0		20	14	51 99	147	10	2 1	3	0 70
859	8441 Lacaille	8 3	2	20	18	13 10	121	6	58 9	2	0 66
860	11 Capricorni ρ	5 0		20	21	5 91	108	15	38 3	7	0 66
861	39525 Lalande	7 0	1	20	24	56 21	86	2	29 2	2	0 72
862		8 3	3	20	27	13 08	121	5	54 0	3	0 69
863		8 9	1	20	27	50 62	143	16	24 8	1	0 63
864	24 Cephei Hev Var	8 9	1	20	28	6 07	1	17	6 8	2	0 19
865	143 R P L	6 7		20	29	42 23	5	18	29 0	2	0 45
866		8 5	1	20	29	45 35	143	52	1 4	1	0 72
867		8 0	2	20	30	52 41	149	55	23 2	2	0 76
868	14 Capricorni τ^2	5 7		20	31	39 85	105	25	45 7	1	0 62
869	S Capricorni Var 2	9 0	2	20	33	57 28	109	32	21 9	2	0 64
870		8 7	1	20	36	32 04	148	23	33 4	1	0 76
871	50 Cygni α (<i>Deneb</i>)	1 7		20	36	47 68	45	12	16 4	5	0 69
872		9 0	1	20	38	8 49	143	3	17 3	1	0 65
873	2 Aquarii ϵ	4 5		20	40	18 60	99	59	29 5	2	0 62
874		10 5	1	20	41	8 55	105	18	21 6	1	0 64
875	T Aquarii Var 4	8 7	4	20	42	45 58	95	38	58 1	4	0 68

842 — χ Cygni Var 2 — Period 406 days — Range 4th magnitude to invisibility
843 — η Aquilæ Var 1 — Period 7176 days — Range 3 5 to 4 7 magnitude
850 — Compansoni star *n* f S Cygni Var 4
851 — R Capricorni Var 1 — Period 347 days — Range 9th magnitude to invisibility
852 — S Aquilæ Var 4 — Period 147 days — Range 9th to 11 5 magnitude
854 — Comparison star for Parthenope in 1862
864 — R Ursæ Minoris Var 1 — Variable from 5th to 11th magnitude in many years
865 — 3123 Carrington
866 — S Capricorni Var 2 — Supposed to change from 9th to 11th magnitude

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	
841	53 Aquilæ α (<i>Altair</i>)	+ 2 8922	- 0 0014	+ 0 086	- 8 804	- 0 374	- 0 38	6802
842	χ Cygni Var 2	+ 2 3067	+ 0 0013		- 8 896	- 0 297		
843	55 Aquilæ η Var 1	+ 3 0583	- 0 0031	- 0 001	- 8 912	- 0 396	+ 0 04	6811
844	60 Aquilæ β	+ 2 9455	- 0 0020	+ 0 002	- 9 154	- 0 378	+ 0 47	6833
845		+ 4 8285	- 0 0479		- 9 227	- 0 621		
846		+ 4 8983	- 0 0523		- 9 492	- 0 626		
847		+ 5 2607	- 0 0700		- 9 691	- 0 668		
848	9208 Taylor	+ 3 8157	- 0 0175		- 9 701	- 0 438		6877
849	λ Ursæ Minoris	- 57 2949	- 29 8376	- 0 035	- 10 037	+ 7 238	- 0 01	6999
850	20046 O A N	+ 1 2594	- 0 0074		- 10 228	- 0 154		
851	R Capricorni Var 1	+ 3 3723	- 0 0087		- 10 305	- 0 418		
852	S Aquilæ Var 4	+ 2 7615	- 0 0004		- 10 431	- 0 340		
853		+ 2 8999	- 0 0017		- 10 604	- 0 354		
854	20356 O A S	+ 3 4941	- 0 0116		- 10 653	- 0 427		
855		+ 4 9574	- 0 0649		- 10 811	- 0 604		
856	6 Capricorni α	+ 3 3312	- 0 0084	+ 0 001	- 10 814	- 0 403	0 00	6974
857	39045 Lalande	+ 2 1327	+ 0 0017		- 10 929	- 0 256		6986
858	α Pavonis	+ 4 7954	- 0 0594	0 000	- 11 133	- 0 574	+ 0 10	7004
859	8441 Lacaille	+ 3 7367	- 0 0192		- 11 375	- 0 444		
860	11 Capricorni ρ	+ 3 4322	- 0 0115	- 0 006	- 11 582	- 0 403	+ 0 01	7042
861	39525 Lalande	+ 2 9974	- 0 0031		- 11 855	- 0 347		
862		+ 3 7178	- 0 0200		- 12 015	- 0 429		
863		+ 4 5039	- 0 0515		- 12 059	- 0 520		
864	24 Cephei Hev Var	- 44 4910	- 23 9972		- 12 076	+ 5 186		7134
865	143 R P L	- 8 3554	- 1 2622		- 12 188	+ 0 973		
866		+ 4 5261	- 0 0535		- 12 192	- 0 519		
867		+ 4 8982	- 0 0742		- 12 270	- 0 560		
868	14 Capricorni τ^2	+ 3 3631	- 0 0105	- 0 002	- 12 325	- 0 382	+ 0 03	7127
869	S Capricorni Var 2	+ 3 4434	- 0 0128		- 12 481	- 0 385		
870		+ 4 7574	- 0 0694		- 12 658	- 0 533		
871	50 Cygni α (<i>Deneb</i>)	+ 2 0433	+ 0 0021	- 0 002	- 12 675	- 0 226	0 00	7171
872		+ 4 4431	- 0 0530		- 12 766	- 0 495		
873	2 Aquarii ϵ	+ 3 2523	- 0 0084	- 0 001	- 12 911	- 0 357	+ 0 01	7196
874		+ 3 3512	- 0 0109		- 12 967	- 0 367		
875	T Aquarii Var 4	+ 3 1724	- 0 0066		- 13 076	- 0 345		

858 — Proper Motions adopted from "Stone's Catalogue"

Mean Positions of Stars for 1864 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>					
876	8571 Lacaille	8 0	2	20	42	53 12	150	12	58 0	2	0 73
877	9633 Taylor	7 4	2	20	44	34 19	101	56	47 2	2	0 69
878	6 Aquarii μ	5 0		20	45	19 11	99	29	29 2	2	0 70
47 — 879		8 8	1	20	48	36 01	149	1	17 4	1	0 65
880	32 Vulpeculæ	5 0		20	48	45 82	62	27	29 5	9	0 70
881		9 0	1	20	50	40 81	148	45	51 9	1	0 70
882	8635 Lacaille	7 4	3	20	52	18 83	126	35	2 8	3	0 71
883	23 Capricorni θ	5 0		20	54	18 93	107	46	16 1	1	0 77
884	R Vulpeculæ Var 2	8 5	2	20	58	20 25	66	43	3 3	2	0 67
885		9 2	1	20	58	35 34	148	52	36 7	1	0 75
886	9772 Taylor	8 1	2	21	0	27 27	145	7	16 6	2	0 72
887	61 Cygni (1st)	5 3		21	0	48 17	51	55	4 3	3	0 67
888	13 Aquarii ν	4 7		21	2	10 85	101	55	14 0	2	0 70
889		9 6	2	21	2	54 46	145	6	44 7	2	0 73
890	8712 Lacaille	8 5	1	21	4	11 07	146	48	32 8	1	0 74
891	64 Cygni 3	3 5		21	7	8 89	60	19	47 3	9	0 69
892	T Capricorni Var 3	9 1	3	21	14	25 65	105	40	11 5	3	0 67
893	5 Cephei α (Alderamin)	2 7		21	15	19 93	27	59	24 9	3	0 69
894	9931 Taylor	6 7	3	21	18	41 84	142	53	23 1	3	0 73
895		8 2	1	21	20	5 57	150	47	50 8	1	0 77
896	22 Aquarii β	3 0		21	24	23 81	96	10	4 8	14	0 69
897		7 9	1	21	25	49 17	140	23	25 6	1	0 70
898	3 Cephei β	3 3		21	26	53 87	20	2	9 1	3	0 69
899		9 5	1	21	27	4 39	132	33	18 9	1	0 74
900		9 3	1	21	28	50 12	134	4	22 2	1	0 74
901		9 0	2	21	29	29 23	134	2	30 3	2	0 76
902		9 0	1	21	29	53 40	98	25	25 9	1	0 77
903	23 Aquarii ξ	5 3		21	30	30 57	98	27	44 8	3	0 68
904	10032 Taylor	6 4	1	21	30	41 50	142	53	15 0	1	0 68
905	10065 Taylor	6 4	1	21	34	27 93	145	7	8 3	1	0 70
906		9 1	2	21	34	41 54	134	0	27 2	2	0 74
907	8 Pegasi ϵ	2 5		21	37	30 34	80	44	50 1	10	0 74
908	10126 Taylor	7 0	1	21	40	59 24	137	14	24 3	1	0 74
909	XXI 975 W B E	9 0	3	21	41	9 82	97	19	45 6	3	0 65
910		9 1	2	21	42	52 93	132	31	26 0	2	0 75

884 — R Vulpeculæ Var 2 — Period 138 days — Range 8th to 13th magnitude
 892 — T Capricorni Var 3 — Period 269 days — Range 9th magnitude to invisibility
 909 — Comparison star for Ariadne in 1864

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	
		s	s	s				
876	8571 Lacaille	+ 4 8426	- 0 0787		- 13 084	- 0 529		
877	9633 Taylor	+ 3 2848	- 0 0093		- 13 195	- 0 355		7232
878	6 Aquarii μ	+ 3 2399	- 0 0083	0 000	- 13 244	- 0 349	+ 0 04	7239
879		+ 4 7231	- 0 0745		- 13 458	- 0 505		
880	32 Vulpeculæ	+ 2 5554	+ 0 0026	- 0 002	- 13 469	- 0 270	0 00	7256
881		+ 4 6931	- 0 0739		- 13 593	- 0 497		
882	8635 Lacaille	+ 3 7969	- 0 0272		- 13 697	- 0 398		
883	23 Capricorni θ	+ 3 3771	- 0 0123	+ 0 004	- 14 077	- 0 345	+ 0 05	7322
884	R Vulpeculæ Var 2	+ 2 6623	+ 0 0022		- 14 078	- 0 271		
885		+ 4 6476	- 0 0757		- 14 093	- 0 476		
886	9772 Taylor	+ 4 4256	- 0 0624		- 14 209	- 0 449		
887	61 Cygni (1st)	+ 2 3337	+ 0 0044	+ 0 339	- 14 234	- 0 233	- 3 22	7336
888	13 Aquarii ν	+ 3 2698	- 0 0098	+ 0 001	- 14 316	- 0 328	+ 0 01	7344
889		+ 4 4093	- 0 0626		- 14 360	- 0 443		
890	8712 Lacaille	+ 4 4907	- 0 0685		- 14 438	- 0 448		
891	64 Cygni 5	+ 2 5505	+ 0 0038	- 0 003	- 14 617	- 0 248	+ 0 07	7368
892	T Capricorni Var 3	+ 3 3201	- 0 0120		- 15 045	- 0 314		
893	5 Cephei α (Alderamin)	+ 1 4102	- 0 0071	+ 0 021	- 15 098	- 0 130	- 0 01	7416
894	9931 Taylor	+ 4 2157	- 0 0575		- 15 290	- 0 391		7443
895		+ 4 6091	- 0 0871		- 15 368	- 0 425		
896	22 Aquarii β	+ 3 1627	- 0 0071	- 0 001	- 15 608	- 0 232	0 00	7473
897		+ 4 0788	- 0 0516		- 15 685	- 0 363		
898	8 Cephei β	+ 0 3010	- 0 0345	0 000	- 15 744	- 0 065	+ 0 04	7493
899		+ 3 3340	- 0 0371		- 15 754	- 0 339		
900		+ 3 3653	- 0 0394		- 15 849	- 0 338		
901		+ 3 3615	- 0 0394		- 15 854	- 0 337		
902		+ 3 1927	- 0 0032		- 15 905	- 0 276		
903	23 Aquarii ξ	+ 3 1929	- 0 0083	+ 0 004	- 15 937	- 0 276	+ 0 04	7514
904	10032 Taylor	+ 4 1468	- 0 0584		- 15 948	- 0 359		7513
905	10065 Taylor	+ 4 2097	- 0 0649		- 16 146	- 0 357		7540
906		+ 3 3372	- 0 0394		- 16 158	- 0 324		
907	8 Pegasi ϵ	+ 2 9452	- 0 0005	+ 0 003	- 16 302	- 0 242	0 00	7561
908	10126 Taylor	+ 3 3963	- 0 0454		- 16 478	- 0 317		7591
909	XXI 975 W B E	+ 3 1700	- 0 0076		- 16 486	- 0 256		
910		+ 3 7627	- 0 0372		- 16 571	- 0 302		

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	m	s					
911	16 Pegasi	5.5		21	46	52.49	64	42	50.7	9	0.72
912	8958 Lacaille	7.6	2	21	47	12.80	135	53	19.5	2	0.75
913		9.3	2	21	47	34.84	133	12	30.1	2	0.75
914		9.7	1	21	52	46.60	136	38	12.8	1	0.74
915	κ Indi	6.5	1	21	56	15.98	150	17	30.7	1	0.85
916	31 Aquarii α	4.7		21	56	16.50	92	48	38.9	1	0.68
917	32 Aquarii	5.6	3	21	57	47.58	91	33	47.1	3	0.74
918		7.9	2	21	58	11.91	136	2	33.8	2	0.75
919	34 Aquarii α	3.0		21	58	47.79	90	58	46.3	10	0.73
920	α Grus	2.0		21	59	38.79	137	37	5.5	1	0.72
921		9.5	1	22	3	19.55	101	8	51.2	1	0.74
922	XXII 98 W B E	8.0	3	22	6	21.85	90	25	47.5	3	0.68
923		8.0	1	22	9	5.50	98	22	7.1	2	0.78
924		9.0	1	22	9	7.81	146	27	23.2	1	0.77
925	43 Aquarii θ	4.7		22	9	39.29	98	27	33.9	10	0.77
926	48 Aquarii γ	3.7		22	14	37.87	92	4	13.8	3	0.82
927		8.9	3	22	15	20.86	82	47	26.1	3	0.70
928		9.4	2	22	16	51.21	135	53	25.2	2	0.75
929	55 Aquarii 3	6.1	3	22	21	49.60	90	42	52.0	3	0.72
930	57 Aquarii σ	5.0		22	23	26.76	101	22	23.2	1	0.70
931	150 R P L	5.5		22	23	38.63	4	34	42.1	7	0.29
932	27 Cephei δ Var 1	4.0		22	24	7.58	32	16	51.0	1	0.76
933		9.2	1	22	24	17.62	135	42	9.4	1	0.74
934		9.7	1	22	24	39.74	146	50	35.2	1	0.77
935		8.2	1	22	25	51.83	141	30	13.4	1	0.75
936	62 Aquarii η	4.0		22	28	21.97	90	49	4.0	0	0.77
937	9183 Lacaille	7.0	2	22	29	53.53	130	33	43.2	2	0.83
938	10477 Taylor	6.2	2	22	32	7.25	148	7	50.5	2	0.77
939	42 Pegasi 3	3.5		22	34	40.74	79	52	30.9	5	0.75
940		8.8	2	22	36	30.50	130	26	56.8	2	0.81
941	9226 Lacaille	6.7	3	22	37	39.08	145	46	40.0	3	0.78
942	XXII 844 W B E	9.0	2	22	40	34.14	37	48	41.1	2	0.76
943		8.7	2	22	40	51.81	142	38	2.6	2	0.84
944		8.0	2	22	44	41.47	130	1	17.2	2	0.81
945		10.2	1	22	44	43.81	145	33	2.5	1	0.77

917—922—Comparison stars for Encke's Comet in 1862

931—3820 Groombridge

932,— δ Cephei Var 2—Period 5366 days—Range, 3.7 to 4.8 magnitude

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	
		s	s	s				
911	16 Pegasi	+ 2 724	+ 0 0052	+ 0 001	- 16 766	- 0 210	+ 0 01	7627
912	8908 Lacaille	+ 3 8272	- 0 0428		- 16 782	- 0 299		
913		+ 3 3750	- 0 0383		- 16 800	- 0 292		
914		+ 3 8181	- 0 0411		- 17 043	- 0 286		
915	κ Indi	- 4 2766	- 0 0845		- 17 203	- 0 314		7669
916	31 Aquarii σ	+ 3 1058	- 0 0051	+ 0 001	- 17 203	- 0 226	+ 0 01	7672
917	32 Aquarii	+ 3 0906	- 0 0045	+ 0 003	- 17 271	- 0 222	+ 0 03	7685
918		+ 3 7748	- 0 0130		- 17 290	- 0 272		
919	34 Aquarii α	+ 3 0836	- 0 0041	- 0 003	- 17 316	- 0 219	+ 0 02	7688
920	α Gruis	+ 3 8065	- 0 0457	+ 0 011	- 17 353	- 0 270	+ 0 15	7692
921		+ 3 0005	- 0 0093		- 17 512	- 0 219		
922	XXII 98 W B E	+ 3 0768	- 0 0037		- 17 640	- 0 205		
923		+ 3 1636	- 0 0077		- 17 752	- 0 207		
924		+ 4 0100	- 0 0681		- 17 754	- 0 264		
925	43 Aquarii θ	+ 3 1640	- 0 0075	+ 0 006	- 17 775	- 0 205	+ 0 03	7773
926	48 Aquarii γ	+ 3 0935	- 0 0013	+ 0 007	- 17 972	- 0 192	- 0 02	7795
927		+ 2 9970	0 0000		- 18 000	- 0 185		
928		+ 3 0738	- 0 0422		- 18 008	- 0 225		
929	55 Aquarii δ	+ 3 0790	- 0 0033	+ 0 009	- 18 243	- 0 173	- 0 03	7832
930	57 Aquarii σ	+ 3 1821	- 0 0088	- 0 004	- 18 301	- 0 182	- 0 05	7840
931	150 R I L	- 3 7197	- 0 1381	+ 0 048	- 18 308	+ 0 231	- 0 05	7851
932	27 Cephei δ V n 1	+ 2 7123	+ 0 0165	+ 0 002	- 18 326	- 0 123	+ 0 02	7843
933		+ 3 6278	- 0 0412		- 18 332	- 0 206		
934		+ 3 8990	- 0 0676		- 18 345	- 0 221		
935		+ 3 7433	- 0 0577		- 18 387	- 0 210		
936	62 Aquarii η	+ 3 0794	- 0 0031	+ 0 003	- 18 474	- 0 166	+ 0 06	7868
937	9188 Lacaille	+ 3 5100	- 0 0333		- 18 525	- 0 168		
938	10177 Laylor	+ 3 8766	- 0 0708		- 18 599	- 0 203		7889
939	42 Pegasi δ	+ 2 9851	+ 0 0023	+ 0 001	- 18 682	- 0 149	0 00	7905
940		+ 3 1782	- 0 0327		- 18 739	- 0 173		
941	9226 Lacaille	+ 3 7632	- 0 0622		- 18 774	- 0 185		
942	XXII 844 W B F	+ 3 0547	- 0 0012		- 18 864	- 0 143		
943		+ 3 6646	- 0 0534		- 18 872	- 0 162		
944		+ 3 1344	- 0 0317		- 18 982	- 0 154		
945		+ 3 7007	- 0 0604		- 18 983	- 0 166		

916 — Proper Motions from Mr Stone's list *Memoirs R A S*, Vol 33917 — Proper Motions adopted from *Greenwich Catalogue*920 — Proper Motions adopted from *Stone's Catalogue*

Mean Positions of Stars for 1864 January 1st,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Trache of Year
				<i>h</i>	<i>m</i>	<i>s</i>					
946		8.2	1	22	44	50.43	118	34	33.0	2	0.73
947		9.0	1	22	48 ^q	3.97	102	30	12.3	1	0.95
948		9.0	2	22	49	13.10	130	27	53.3	2	0.94
949	S Aquarii Var 2			22	49	49.09	111	4	10	1	0.72
950	2 Piscis Aus α (Tomalhaut)	1.3		20	00	1.70	120	20	32.8	7	0.62
951		7.3	2	22	50	19.40	111	0	5.7	2	0.73
952		8.9	1	22	51	26.12	101	33	15.5	2	0.51
953	9353 Lacaille	5.9	1	22	56	36.00	144	41	35.0	1	0.76
954		8.9	1	22	57	11.27	119	37	59.8	1	0.82
955	53 Pegasi β Var 1	2.3		22	57	11.01	62	39	16.9	1	0.76
956	51 Pegasi α (Ma'lab)	2.0		22	57	59.18	70	31	31.6	4	0.77
957		9.1	2	22	59	20.02	100	22	0.6	2	0.63
958	9372 Lacaille	8.0	2	23	0	22.71	150	28	12.7	2	0.50
959	9377 Lacaille	6.6	2	23	2	12.35	151	18	1.3	2	0.74
960		9.5	2	23	4	16.63	130	49	15.1	2	0.77
961	9394 Lacaille	8.1	3	23	5	9.76	115	50	37.8	3	0.82
962	6 Piscium γ	4.3		23	10	6.89	87	27	37.5	4	0.70
963		9.8	1	23	11	5.52	151	15	41.8	1	0.81
964		9.3	1	23	11	6.18	127	25	34.9	1	0.92
965		8.6	1	23	11	18.58	136	54	21.5	1	0.86
966		8.0	1	23	12	7.56	137	3	51.3	1	0.72
967		8.3	2	23	12	13.07	127	24	50.8	2	0.80
968	96 Aquarii	5.5	1	23	10	20.62	90	52	2.5	1	0.69
969		8.0	4	23	10	17.25	130	46	10.1	4	0.62
970		9.8	1	23	15	41.65	130	39	46.9	1	0.81
971		10.0		23	19	42.21	151	38	3.9	1	0.82
972	8 Piscium κ	5.5		23	19	0.63	89	29	20.0	8	0.79
973		6.7	2	23	23	37.19	148	57	35.6	2	0.76
974		9.9	2	23	25	29.85	129	51	59.0	2	0.61
975	10801 Delon	6.7	1	23	27	29.64	147	31	36.0	1	0.70
976		5.4	2	23	27	40.78	116	14	46.3	2	0.76
977	105 Del L	5.7		23	27	49.90	3	26	34.6	0	0.19
978		8.1	2	23	29	49.44	118	55	17.9	2	0.83
979		8.8	1	23	30	24.69	148	56	42.9	1	0.62
980	17 Piscium ϵ	4.0		23	32	07.34	85	6	38.9	7	0.78

[49]

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949—S Aquarii Var 2 Period 279 days—Range 8th magnitude to invisibility
 955— β Pegasi Var 1—(Schlat)—Period about 6 weeks—Range 2.0 to 2.5 magnitude
 977—4101 Groombridge ϵ

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	
		s	s	s				
916		+ 3 7769	- 0 0697		- 18 987	- 0 169		
947		+ 3 8680	- 0 0851		- 19 070	- 0 166		
948		+ 3 4801	- 0 0388		- 19 106	- 0 147		
949	S Aquarii Var 2	+ 3 2271	- 0 0140		- 19 122	- 0 134		
950	2 Piscis Australis α	+ 3 3069	- 0 0210	+ 0 022	- 19 131	- 0 135	+ 0 18	7992
951		+ 3 2207	- 0 0140		- 19 136	- 0 133		
952		+ 3 7995	- 0 0790		- 19 164	- 0 155		
903	9353 Lacaille	+ 3 5878	- 0 0059		- 19 293	- 0 135		8029
954		+ 3 6897	- 0 0705		- 19 307	- 0 138		
905	53 Pegasi β Var 1	+ 2 8850	+ 0 0117	+ 0 014	- 19 307	- 0 106	- 0 15	8032
956	51 Pegasi α (Ma1ab)	+ 2 9798	+ 0 0056	+ 0 003	- 19 325	- 0 107	+ 0 02	8034
957		+ 3 6871	- 0 0728		- 19 356	- 0 133		
908	9372 Lacaille	+ 3 6792	- 0 0727		- 19 380	- 0 130		
909	9377 Lacaille	+ 3 6814	- 0 0703		- 19 420	- 0 126		8061
960		+ 3 3499	- 0 0300		- 19 466	- 0 109		
961	9394 Lacaille	+ 3 0391	- 0 0071		- 19 483	- 0 114		
962	6 Piscium γ	+ 3 0591	+ 0 0005	+ 0 047	- 19 582	- 0 087	+ 0 01	8105
963		+ 3 5385	- 0 0721		- 19 600	- 0 103		
964		+ 3 2887	- 0 0264		- 19 600	- 0 093		
965		+ 3 3734	- 0 0382		- 19 604	- 0 098		
966		+ 3 3701	- 0 0384		- 19 619	- 0 094		
967		+ 3 2639	- 0 0263		- 19 621	- 0 087		
968	96 Aquarii	+ 3 1004	- 0 0038	+ 0 011	- 19 623	- 0 085	+ 0 01	8119
969		+ 3 2907	- 0 0296		- 19 674	- 0 085		
970		+ 3 2928	- 0 0295		- 19 681	- 0 084		
971		+ 3 5002	- 0 0703		- 19 745	- 0 081		
972	8 Piscium κ	+ 3 0699	0 0000	+ 0 005	- 19 750	- 0 069	+ 0 12	8169
973		+ 3 4232	- 0 0605		- 19 803	- 0 070		
971		+ 3 2396	- 0 0275		- 19 828	- 0 062		
970	10804 Davioi	+ 3 3696	- 0 0055		- 19 853	- 0 060		8208
976		+ 3 3749	- 0 0572		- 19 857	- 0 060		
977	108 R P L	- 0 0367	- 0 5004	+ 0 084	- 19 808	+ 0 010	- 0 01	8213
978		+ 3 3633	- 0 0083		- 19 882	- 0 055		
979		+ 3 3079	- 0 0583		- 19 888	- 0 054		
980	17 Piscium ι	+ 3 0585	+ 0 0030	+ 0 020	- 19 916	- 0 042	+ 0 45	8233

Mean Positions of Stars for 1864 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>					
981	85 Cephei γ	3.3		23	33	47.83	13	7	37.0	3	0.80
982		9.2	1	23	34	20.29	147	27	26.3	1	0.82
983		8.0	1	23	35	11.20	148	42	58.3	1	0.86
984		9.2	2	23	36	46.75	106	2	18.8	2	0.75
985	9588 Lacaille	8.7	2	23	38	50.59	123	48	53.6	2	0.79
986		9.7	1	23	41	4.67	128	46	38.4	1	0.82
987	δ Sculptoris	4.5		23	41	50.21	118	52	56.8	11	0.82
988		8.5	1	24	41	58.37	142	4	25.9	1	0.71
989		9.4	1	23	42	41.88	150	54	3.2	1	0.85
990		9.4	2	23	47	43.66	128	50	58.4	2	0.81
991	9641 Lacaille	7.8	1	23	48	2.04	128	7	14.7	1	0.82
992		8.5	1	23	49	57.25	148	53	24.9	1	0.86
993	R Cassiopeæ Var 3	9.5	1	23	51	30.50	39	22	8.6	1	0.82
994		9.0	1	23	51	45.38	152	20	38.6	1	0.85
995	28 Piscium z	4.0		23	52	19.68	88	53	23.5	11	0.80
996	9686 Lacaille	6.9	3	23	53	32.44	143	51	15.3	3	0.78
997		9.2	2	23	55	58.46	130	17	1.3	2	0.81
998		8.0	1	23	56	7.64	124	7	46.0	1	0.86
999	10994 Taylor	7.7	1	23	57	47.27	147	36	0.5	1	0.74
1000	9,21 Lacaille	6.9		23	59	15.72	139	50 3.3		1	0.86

993 —R Cassiopeæ Var 3—Period 426 days—Range, 5th magnitude to invisibility

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>				
981	35 Cephei γ	+ 2 4179	+ 0 0738	- 0 020	- 19 924	- 0 031	- 0 15	8238
982		+ 3 3061	- 0 0532		- 19 930	- 0 045		
983		+ 3 3099	- 0 0561		- 19 937	- 0 043		
984		+ 3 1109	- 0 0081		- 19 953	- 0 037		
985	9583 Lacaille	+ 3 1709	- 0 0248		- 19 970	- 0 034		
986		+ 3 1607	- 0 0244		- 19 987	- 0 029		8275
987	δ Sculptoris	+ 3 1304	- 0 0161	+ 0 009	- 19 992	- 0 026	+ 0 10	
988		+ 3 2069	- 0 0408		- 19 993	- 0 028		
989		+ 3 2533	- 0 0590		- 19 998	- 0 027		
990		+ 3 1297	- 0 0237		- 20 026	- 0 015		
991	9641 Lacaille	+ 3 1269	- 0 0230		- 20 027	- 0 015		8331
992		+ 3 1692	- 0 0512		- 20 036	- 0 011		
993	R Cassiopeæ Var 3	+ 3 0117	+ 0 0364		- 20 041	- 0 007		
994		+ 3 1639	- 0 0590		- 20 042	- 0 008		
995	28 Piscium ω	+ 3 0672	+ 0 0047	+ 0 010	- 20 044	- 0 005	+ 0 13	
996	9686 Lacaille	+ 3 1237	- 0 0407		- 20 047	- 0 004		8331
997		+ 3 0920	- 0 0240		- 20 052	+ 0 001		
998		+ 3 0374	- 0 0185		- 20 052	+ 0 001		
999	10994 Taylor	+ 3 0925	- 0 0495		- 20 054	+ 0 005		
1000	9721 Lacaille	+ 3 0772	- 0 0336		- 20 055	+ 0 003		

987 — Proper Motions adopted from ' *Stone's Catalogue* '