MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1878

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1878, *January* 1*st.*

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
1	21 Andromedæ α(*Alpherat*)	2·1	...	0	2	5·00	61	35	0·3	4	0·89
2	22 Andromedæ	4·9	...	0	3	59·06	44	36	23·6	2	0·90
3	κ^2 Sculptoris	5·7	2	0	5	22·58	118	28	45·4	2	0·90
4	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	57·27	75	29	41·1	2	0·89
5	7 Ceti	4·6	...	0	8	26·48	109	36	32·6	1	0·85
6	ζ Tucanæ	5·0	2	0	13	42·47	155	35	32·0	2	0·88
7	π Tucanæ	4·9	1	0	14	58·91	160	18	9·8	1	0·87
8	ι Sculptoris	5·5	5	0	15	23·36	119	39	22·4	5	0·91
9	η Sculptoris	5·3	1	0	21	52·71	123	40	52·9	1	0·85
10	Taylor 107	6·0	3	0	23	24·13	131	20	25·2	3	0·93
11	12 Ceti	6·2	...	0	23	48·82	94	37	52·5	1	0·94
12	λ^1 Phœnicis	5·3	1	0	25	31·76	139	28	42·4	1	0·87
13	15 Cassiopeiæ κ—1st ...	4·2	...	0	26	4·65	27	44	29·2	1	0·89
14	Taylor 139...	5·5	1	0	27	38·88	120	13	50·3	1	0·90
15	λ^2 Phœnicis	5·5	1	0	29	51·81	138	40	12·6	1	0·89
16	17 Cassiopeiæ ζ	3·7	...	0	30	10·74	36	46	28·5	1	0·95
17	29 Andromedæ π... ...	4·4	...	0	30	21·91	56	57	9·9	1	0·93
18	Radcliffe 172	5·0	3	0	32	25·81	41	18	58·8	3	0·90
19	Lacaille 172	5·5	1	0	34	42·29	150	8	25·6	1	0·87
20	20 Cassiopeiæ π	5·0	...	0	36	43·03	43	38	34·3	1	0·95
21	λ^1 Sculptoris	5·4	1	0	36	50·55	129	7	58·2	1	0·95
22	16 Ceti β	2·1	...	0	37	27·77	108	39	21·9	5	0·89
23	η Phœnicis	5·0	1	0	37	52·01	148	7	57·6	1	0·89
24	λ^2 Sculptoris	5·2	1	0	38	17·93	129	5	38·7	1	0·96
25	34 Andromedæ ζ... ...	4·4	...	0	40	52·28	66	23	48·1	2	0·90
26	35 Andromedæ ν... ...	4·4	...	0	43	5·30	49	35	9·3	1	0·89
27	19 Ceti ϕ^2...	5·3	...	0	44	0·84	101	18	5·4	3	0·95
28	ρ Phœnicis	5·6	3	0	45	7·73	141	39	11·0	3	0·89
29	Radcliffe 247	5·4	1	0	48	9·44	41	59	0·2	2	0·95
30	37 Andromedæ α... ...	3·9	...	0	49	58·94	52	9	45·7	3	0·92
31	38 Andromedæ η... ...	4·6	...	0	50	41·46	67	14	28·6	2	0·94
32	α Sculptoris	5·1	4	0	52	43·64	120	1	2·0	4	0·93
33	71 Piscium ϵ	4·5	...	0	56	36·77	82	46	1·3	9	0·93
34	ω Phœnicis	5·8	3	0	56	52·03	147	39	35·5	3	0·94
35	30 Cassiopeiæ μ	5·2	...	1	0	9·72	35	40	45·0	2	0·87

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
1	21 Andromedæ α ...	+ 3·0788	+ 0·0182	+ 0·010	− 20·054	+ 0·013	+ 0·16	3215
2	22 Andromedæ ...	+ 3·0958	+ 0·0328	+ 0·002	− 20·052	+ 0·017	− 0·02	3220
3	κ² Sculptoris... ...	+ 3·0553	− 0·0138	...	− 20·048	+ 0·019	...	...
4	88 Pegasi γ	+ 3·0827	+ 0·0100	− 0·001	− 20·045	+ 0·022	+ 0·01	1
5	7 Ceti...	+ 3·0548	− 0·0082	− 0·003	− 20·041	+ 0·025	+ 0·06	4
6	ζ Tucanæ	+ 2·8963	− 0·0555	+ 0·265	− 20·019	+ 0·034	− 1·18	Stone
7	π Tucanæ	+ 2·8283	− 0·0673	...	− 20·012	+ 0·036	...	...
8	ι Sculptoris	+ 3·0212	− 0·0137	...	− 20·009	+ 0·038	...	...
9	η Sculptoris	+ 2·9873	− 0·0156	...	− 19·962	+ 0·050	...	...
10	Taylor 107	+ 2·9524	− 0·0208	...	− 19·949	+ 0·053	...	...
11	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·946	+ 0·055	+ 0·01	38
12	λ¹ Phœnicis... ...	+ 2·8984	− 0·0274	...	− 19·930	+ 0·056	...	...
13	15 Cassiopeiæ κ—1st..	+ 3·3609	+ 0·0702	+ 0·000	− 19·925	+ 0·064	+ 0·02	43
14	Taylor 139	+ 2·9785	− 0·0128	...	− 19·909	+ 0·061	...	...
15	λ² Phœnicis... ...	+ 2·8747	− 0·0257	...	− 19·884	+ 0·063	...	...
16	17 Cassiopeiæ ζ ...	+ 3·3071	+ 0·0491	+ 0·002	− 19·881	+ 0·072	+ 0·01	52
17	29 Andromedæ π ...	+ 3·1872	+ 0·0243	− 0·000	− 19·879	+ 0·070	0·00	53
18	Radcliffe 172... ...	+ 3·2867	+ 0·0419	...	− 19·854	+ 0·076	...	...
19	Lacaille 172	+ 2·7209	− 0·0357	...	− 19·825	+ 0·069	...	...
20	2 Cassiopeiæ π ...	+ 3·2959	+ 0·0892	− 0·003	− 19·797	+ 0·085	+ 0·02	67
21	λ¹ Sculptoris ...	+ 2·8982	− 0·0173	...	− 19·796	+ 0·075	...	...
22	16 Ceti β	+ 2·9988	− 0·0055	+ 0·015	− 19·787	+ 0·080	− 0·03	70
23	η Phœnicis	+ 2·7185	− 0·0324	...	− 19·781	+ 0·078	...	...
24	λ³ Sculptoris ...	+ 2·8916	− 0·0170	...	− 19·775	+ 0·078	...	...
25	34 Andromedæ ζ ...	+ 3·1759	+ 0·0179	− 0·009	− 19·787	+ 0·090	+ 0·07	78
26	35 Andromedæ ν ...	+ 3·2850	+ 0·0326	− 0·001	− 19·700	+ 0·097	+ 0·01	87
27	19 Ceti φ²	+ 3·0213	− 0·0014	− 0·018	− 19·686	+ 0·092	− 0·23	89
28	ρ Phœnicis	+ 2·7417	− 0·0246	...	− 19·666	+ 0·086	..	...
29	Radcliffe 247 ...	+ 3·3821	+ 0·0434	...	− 19·613	+ 0·110	...	...
30	37 Andromedæ μ ...	+ 3·2970	+ 0·0305	+ 0·014	− 19·580	+ 0·112	− 0·05	101
31	38 Andromedæ η ...	+ 3·1953	+ 0·0178	− 0·003	− 19·566	+ 0·110	+ 0·04	104
32	α Sculptoris	+ 2·8961	− 0·0101	...	− 19·526	+ 0·104	...	...
33	71 Piscium ε... ...	+ 3·1138	+ 0·0087	− 0·007	− 19·446	+ 0·119	− 0·04	113
34	ω Phœnicis	+ 2·5530	− 0·0252	...	− 19·440	+ 0·099	...	...
35	30 Cassiopeiæ μ ...	+ 3·5554	+ 0·0577	+ 0·386	− 19·367	+ 0·142	+ 1·58	118

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	41 Andromedæ	5·3	...	1	1	0·99	46	42	29·6	3	0·94
37	42 Andromedæ ϕ	4·3	...	1	2	25·43	43	24	32·9	1	0·94
38	ζ Phœnicis 2nd	5·1	3	1	3	15·26	145	53	56·0	3	0·89
39	84 Piscium χ	4·9	...	1	4	53·88	69	36	52·2	4	0·93
40	Taylor 396	5·8	1	1	7	8·07	128	30	10·9	1	0·95
41	37 Ceti	5·0	...	1	8	15·11	98	34	43·6	2	0·96
42	ν Phœnicis	5·0	1	1	9	40·62	136	11	2·8	1	0·90
43	Lacaille 361	6·2	1	1	12	49·45	157	2	32·3	1	0·95
44	1 Urs. Min. α (*Polaris*) ...	2·2	...	1	14	2·08	1	20	28·0	6	0·59
45	46 Andromedæ ξ ...	4·9	...	1	15	9·40	45	6	39·7	5	0·93
46	36 Cassiopeiæ ψ	4·8	...	1	17	19·71	22	30	25·9	2	0·96
47	45 Ceti θ^1...	3·8	...	1	17	55·50	98	48	47·0	8	0·91
48	c^2 Phœnicis	...	...	1	19	16·77	132	7	39·6	1	0·93
49	46 Ceti	5·3	...	1	19	37·23	105	14	1·5	1	0·90
50	94 Piscium	5·6	...	1	20	6·40	71	23	33·4	1	0·95
51	48 Andromedæ ω	4·8	...	1	20	21·50	45	13	24·2	1	0·95
52	49 Andromedæ A ...	5·2	...	1	22	47·38	43	37	22·5	1	0·95
53	99 Piscium η	3·7	...	1	24	57·31	75	17	1·4	8	0·59
54	Taylor 502	5·8	4	1	27	28·74	127	29	31·1	4	0·93
55	Taylor 504	5·6	1	1	27	36·37	140	21	8·5	1	0·93
56	49 Ceti	5·5	...	1	28	40·11	106	18	7·2	2	0·95
57	50 Andromedæ υ ...	4·2	...	1	29	38·32	49	12	19·9	2	0·96
58	51 Andromedæ	3·7	...	1	30	30·44	41	59	24·2	2	0·95
59	Taylor 543	5·5	2	1	33	2·29	127	8	43·0	2	0·90
60	53 Andromedæ τ	4·9	...	1	33	22·78	50	2	29·4	3	0·94
61	Lacaille 499	7·0	1	1	34	48·90	156	13	36·5	1	1·00
62	106 Piscium ν	4·7	...	1	35	4·87	85	7	48·1	9	0·42
63	p Eridani 1st	5·7	1	1	35	9·66	146	48	56·9	1	0·95
64	54 Andromedæ	4·2	...	1	36	1·00	39	55	37·9	1	0·95
65	ψ Phœnicis	6·0	1	1	36	5·83	128	45	8·0	1	0·96
66	q^1 Eridani...	5·8	1	1	37	47·18	144	21	8·6	1	0·94
67	ϵ Sculptoris	5·4	5	1	39	55·85	115	39	45·9	5	0·93
68	Taylor 587	5·6	2	1	41	18·89	141	25	36·7	2	0·97
69	53 Ceti χ	4·8	...	1	43	35·52	101	17	30·3	1	0·90
70	2 Trianguli α	3·6	...	1	46	7·70	61	0	59·9	3	0·95

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
36	41 Andromedæ ...	+ 3·4036	+ 0·0380	+ 0·014	− 19·348	+ 0·138	+ 0·07	129
37	42 Andromedæ ϕ ...	+ 3·4525	+ 0·0429	− 0·003	− 19·316	+ 0·143	+ 0·01	134
38	ζ Phœnicis—2nd ...	+ 2·5337	− 0·0221	− 0·021	− 19·295	+ 0·109	+ 0·02	Stone
39	84 Piscium χ ...	+ 3·2111	+ 0·0169	~~+~~ 0·001	− 19·256	+ 0·139	− 0·01	150
40	Taylor 396	+ 2·7651	− 0·0126	...	− 19·199	+ 0·124	...	...
41	37 Ceti	+ 3·0130	+ 0·0014	+ 0·006	− 19·172	+ 0·136	− 0·28	164
42	ν Phœnicis	+ 2·6551	− 0·0159	+ 0·070	− 19·134	+ 0·124	− 0·15	Stone
43	Lacaille 361	+ 2·0862	− 0·0179	+ 0·001	− 19·052	+ 0·103	− 0·01	Stone
44	1 Ursæ Minoris α ...	+ 21·2007	+ 15·4788	+ 0·108	− 19·016	− 0·990	+ 0·00	102
45	46 Andromedæ ξ ...	+ 3·5011	+ 0·0417	+ 0·002	− 18·986	+ 0·172	− 0·01	177
46	36 Cassiopeiæ ψ ...	+ 4·1404	+ 0·1206	+ 0·011	− 18·928	+ 0·207	~~+~~ 0·01	178
47	45 Ceti θ^1	+ 3·0032	+ 0·0018	− 0·007	− 18·906	+ 0·154	+ 0·20	184
48	c^2 Phœnicis	+ 2·6622	− 0·0124	...	− 18·866	+ 0·139	...	...
49	46 Ceti	+ 2·9483	− 0·0008	+ 0·001	− 18·856	+ 0·154	− 0·01	190
50	94 Piscium	+ 3·2264	+ 0·0163	+ 0·001	− 18·842	+ 0·169	+ 0·04	189
51	48 Andromedæ ω ...	+ 3·5280	+ 0·0420	+ 0·031	− 18·834	+ 0·184	+ 0·10	186
52	49 Andromedæ A ...	+ 3·5680	+ 0·0447	− 0·001	− 18·760	+ 0·191	+ 0·04	196
53	99 Piscium η... ...	+ 3·1994	+ 0·0141	− 0·000	− 18·692	+ 0·177	+ 0·00	203
54	Taylor 502	+ 2·6902	− 0·0095	...	− 18·610	+ 0·154	...	...
55	Taylor 504	+ 2·4704	− 0·0136	...	− 18·607	+ 0·142	...	...
56	49 Ceti	+ 2·9248	− 0·0008	+ 0·004	− 18·572	+ 0·169	− 0·01	210
57	50 Andromedæ υ ...	+ 3·5121	+ 0·0369	− 0·017	− 18·540	+ 0·203	+ 0·37	209
58	51 Andromedæ ...	+ 3·6487	+ 0·0483	+ 0·005	− 18·511	+ 0·212	+ 0·11	212
59	Taylor 543	+ 2·6723	− 0·0086	...	− 18·424	+ 0·162	...	...
60	53 Andromedæ τ ...	+ 3·5162	+ 0·0360	+ 0·001	− 18·413	+ 0·211	+ 0·02	221
61	Lacaille 499	+ 1·8522	− 0·0057	...	− 18·362	+ 0·117	...	...
62	106 Piscium ν ...	+ 3·1182	+ 0·0091	− 0·008	− 18·353	+ 0·191	− 0·01	228
63	p Eridani—1st ...	+ 2·2477	− 0·0118	...	− 18·350	+ 0·140	...	...
64	54 Andromedæ ...	+ 3·7221	+ 0·0528	+ 0·001	− 18·320	+ 0·228	+ 0·03	227
65	ψ Phœnicis	+ 2·6353	− 0·0089	...	− 18·317	+ 0·165	...	...
66	q^1 Eridani	+ 2·3007	− 0·0118	...	− 18·256	+ 0·147	...	...
67	ϵ Sculptoris	+ 2·8010	− 0·0038	+ 0·009	− 18·178	+ 0·180	+ 0·08	Stone
68	Taylor 587	+ 2·3551	− 0·0108	...	− 18·126	+ 0·155	...	...
69	53 Ceti χ	+ 2·9557	+ 0·0021	− 0·013	− 18·040	+ 0·196	+ 0·09	242
70	2 Trianguli α ...	+ 3·4032	+ 0·0250	+ 0·000	− 17·942	+ 0·229	+ 0·23	245

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	5 Arietis γ^1 (*South*) ...	5·0	...	1	46	50·18	71	18	18·5	1	0·97
72	5 Arietis γ^2 (*North*) ...	5·1	...	1	46	50·31	71	18	9·9	1	0·97
73	6 Arietis β	2·8	...	1	47	54·09	69	47	21·7	9	0·42
74	Taylor 629	5·0	2	1	48	45·43	136	54	2·5	2	0·96
75	ϕ Phœnicis	5·0	1	1	49	18·21	133	5	46·5	1	0·96
76	η^1 Hydri	7·5	1	1	49	29·82	158	32	45·8	1	1·00
77	Taylor 646	5·5	2	1	52	19·80	137	58	54·1	2	0·91
78	59 Ceti υ	3·8	...	1	54	15·35	111	40	11·1	2	0·94
79	113 Piscium α—2nd ...	4·0	...	1	55	43·84	87	49	34·4	4	0·94
80	ν Fornacis	5·7	2	1	59	1·14	119	52	57·8	2	0·96
81	13 Arietis α	2·0	...	2	0	17·83	67	6	55·6	11	0·45
82	8 Trianguli δ	5·0	...	2	9	36·44	56	20	6·7	2	0·01
83	67 Ceti	5·5	...	2	10	53·88	96	59	5·0	8	0·93
84	π^1 Hydri	5·8	3	2	11	41·96	158	24	44·6	3	0·02
85	π^2 Hydri	5·7	4	2	12	56·59	158	18	45·3	4	0·04
86	9 Persei i	5·2	...	2	13	51·35	34	42	48·8	5	0·95
87	Taylor 798	5·7	3	2	17	24·79	133	45	31·0	3	0·03
88	Taylor 810	5·7	3	2	18	36·99	141	38	58·1	3	0·94
89	Radcliffe 706	4·5	3	2	19	2·04	23	8	50·7	3	0·02
90	72 Ceti ρ	4·9	...	2	20	3·25	102	50	29·7	2	0·94
91	73 Ceti ξ^2	4·4	...	2	21	40·37	82	5	14·7	3	0·97
92	κ Eridani	4·8	2	2	22	30·80	138	15	6·9	2	0·98
93	75 Ceti	5·6	...	2	25	56·95	91	34	30·0	2	0·95
94	76 Ceti σ	4·7	...	2	26	18·02	105	46	51·4	2	0·96
95	78 Ceti ν	4·9	...	2	29	28·40	84	56	23·0	4	0·92
96	81 Ceti	5·7	...	2	31	33·03	93	55	31·7	2	0·91
97	η Horologii	5·7	2	2	33	22·78	143	4	18·4	2	0·96
98	83 Ceti ϵ	5·0	...	2	33	39·77	102	23	27·3	1	0·94
99	Taylor 906	6·0	1	2	35	8·74	133	24	57·1	1	1·00
100	13 Persei θ	4·2	...	2	35	52·35	41	17	20·8	1	0·97
101	35 Arietis	4·7	...	2	36	17·74	62	48	46·7	2	0·94
102	86 Ceti γ—2nd	3·6	...	2	36	58·77	87	16	46·2	6	0·33
103	1 Eridani τ^1	4·7	...	2	39	24·63	109	5	24·1	2	0·95
104	39 Arietis	4·6	...	2	40	38·76	61	15	40·0	2	0·96
105	γ Fornacis	5·9	2	2	44	26·69	115	3	46·0	2	0·96

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	5 Arietis γ^1 ...	+ 3·2756	+ 0·0172	+ 0·004	− 17·914	+ 0·222	+ 0·10	248
72	5 Arietis γ^2 ...							249
73	6 Arietis β	+ 3·2955	+ 0·0183	+ 0·005	− 17·872	+ 0·226	+ 0·10	252
74	Taylor 629	+ 2·4194	− 0·0089	...	− 17·839	+ 0·169	...	...
75	ϕ Phœnicis	+ 2·4981	− 0·0083	− 0·015	− 17·816	+ 0·175	+ 0·04	Stone
76	η^1 Hydri	+ 1·5081	+ 0·0091	...	− 17·809	+ 0·109	...	...
77	Taylor 646	+ 2·3737	− 0·0084	...	− 17·693	+ 0·171	...	...
78	59 Ceti ν	+ 2·8183	− 0·0013	+ 0·007	− 17·613	+ 0·204	+ 0·02	273
79	113 Piscium α ...	+ 3·0969	+ 0·0084	+ 0·002	− 17·551	+ 0·226	+ 0·01	277
80	ν Fornacis	+ 2·6910	− 0·0036	...	− 17·409	+ 0·202	...	...
81	13 Arietis α	+ 3·3551	+ 0·0203	+ 0·013	− 17·354	+ 0·252	+ 0·13	287
82	8 Trianguli δ ...	+ 3·5494	+ 0·0296	+ 0·090	− 16·932	+ 0·284	+ 0·22	317
83	67 Ceti	+ 2·9837	+ 0·0049	+ 0·004	− 16·871	+ 0·242	+ 0·11	321
84	π^1 Hydri	+ 1·2357	+ 0·0211	...	− 16·833	+ 0·105	...	...
85	π^2 Hydri	+ 1·2297	+ 0·0213	...	− 16·774	+ 0·105	...	...
86	9 Persei i	+ 4·1365	+ 0·0730	− 0·002	− 16·730	+ 0·339	+ 0·01	326
87	Taylor 798	+ 2·3498	− 0·0043	...	− 16·556	+ 0·200	...	...
88	Taylor 810	+ 2·1114	− 0·0032	...	− 16·497	+ 0·182	...	...
89	Radcliffe 706... ...	+ 4·8551	+ 0·1310	...	− 16·476	+ 0·410	...	...
90	72 Ceti ρ	+ 2·8974	+ 0·0031	− 0·003	− 16·425	+ 0·249	− 0·00	343
91	73 Ceti ξ^2	+ 3·1800	+ 0·0117	+ 0·001	− 16·344	+ 0·276	+ 0·00	347
92	κ Eridani	+ 2·1996	− 0·0033	+ 0·000	− 16·300	+ 0·194	− 0·04	Stone
93	75 Ceti	+ 3·0504	+ 0·0074	− 0·002	− 16·123	+ 0·271	+ 0·03	354
94	76 Ceti σ	+ 2·8471	+ 0·0024	− 0·006	− 16·104	+ 0·256	+ 0·11	356
95	78 Ceti ν	+ 3·1440	+ 0·0103	− 0·005	− 15·938	+ 0·285	+ 0·03	362
96	81 Ceti	+ 3·0159	+ 0·0066	+ 0·002	− 15·827	+ 0·277	+ 0·03	368
97	η Horologii	+ 1·9686	− 0·0001	...	− 15·728	+ 0·185	+ 0·02	Stone
98	83 Ceti ϵ	+ 2·8897	+ 0·0038	+ 0·008	− 15·713	+ 0·269	+ 0·25	375
99	Taylor 906	+ 2·2798	− 0·0022	+ 0·006	− 15·631	+ 0·215	+ 0·03	Stone
100	13 Persei θ	+ 4·0297	+ 0·0508	+ 0·033	− 15·592	+ 0·376	+ 0·09	374
101	35 Arietis	+ 3·5052	+ 0·0233	− 0·002	− 15·569	+ 0·329	+ 0·01	380
102	86 Ceti γ—2nd ...	+ 3·1125	+ 0·0094	− 0·011	− 15·531	+ 0·294	+ 0·16	383
103	1 Eridani τ^1... ...	+ 2·7757	+ 0·0016	+ 0·022	− 15·396	+ 0·267	− 0·05	390
104	39 Arietis	+ 3·5451	+ 0·0253	+ 0·010	− 15·326	+ 0·340	+ 0·11	389
105	γ Fornacis	+ 2·6611	+ 0·0008	...	− 15·109	+ 0·261	...	...

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	η^2 Fornacis	5·7	2	2	45	18·76	126	21	0·9	2	0·93
107	2 Eridani τ^2	4·8	...	2	45	30·10	111	30	27·8	2	0·96
108	η^3 Fornacis	5·7	1	2	45	44·67	126	10	43·9	1	0·93
109	Lacaille 943	5·8	1	2	49	6·97	158	1	25·9	1	0·95
110	4 Eridani	5·4	...	2	51	58·11	114	21	9·3	3	0·97
111	6 Eridani	6·1	...	2	52	40·15	114	5	50·6	2	0·94
112	92 Ceti *a* (*Menkar*) ...	2·7	...	2	55	54·12	86	23	22·3	8	0·39
113	23 Persei γ	3·1	...	2	55	57·86	36	58	21·1	1	0·96
114	10 Eridani ρ^3	5·4	...	2	58	17·01	98	4	44·5	2	0·94
115	27 Persei κ	4·0	...	3	1	16·05	45	36	23·8	2	0·98
116	28 Persei ω...	4·7	...	3	3	25·02	50	51	11·2	2	0·95
117	R. P. L. 33	5·8	...	3	3	43·13	5	31	34·0	6	0·33
118	57 Arietis δ	4·5	...	3	4	39·29	70	44	10·7	3	0·34
119	95 Ceti	5·7	...	3	12	7·98	91	22	32·8	2	0·95
120	96 Ceti κ^1	5·0	...	3	12	57·80	87	4	41·7	1	1·00
121	15 Eridani...	5·0	...	3	12	58·35	112	57	28·2	1	0·97
122	*e* Eridani	4·6	2	3	15	3·60	133	32	14·9	2	0·97
123	Radcliffe 956	4·3	2	3	19	11·89	30	29	12·6	2	0·95
124	Radcliffe 969	5·4	1	3	20	42·32	34	58	18·2	1	0·95
125	35 Persei σ	4·4	...	3	21	58·59	42	25	40·0	1	0·95
126	R. P. L. 34	5·9	...	3	26	42·06	3	44	29·2	4	0·17
127	37 Persei ψ	4·2	...	3	27	49·21	42	12	51·8	2	0·96
128	Lacaille 1164	5·7	2	3	29	37·33	156	54	12·7	2	0·96
129	10 Tauri	4·4	...	3	30	38·83	89	59	10·8	3	0·95
130	22 Eridani,...	5·4	...	3	34	35·93	95	36	20·6	2	0·98
131	40 Persei *o*	5·0	...	3	36	40·15	58	6	0·0	1	0·99
132	25 Tauri η (*Alcyone*) ...	3·0	...	3	40	14·04	66	16	26·6	8	0·05
133	28 Tauri (*Pleione*) ...	5·6	1	3	41	55·66	66	14	13·7	1	0·97
134	44 Persei ζ	3·1	...	3	46	27·82	58	28	50·1	1	0·95
135	32 Eridani (S)	5·1	...	3	48	9·81	93	19	0·6	2	0·98
136	υ^3 Eridani	5·2	1	3	49	0·03	125	5	39·5	1	0·94
137	45 Persei ϵ	3·0	...	3	49	40·02	50	20	39·2	1	0·97
138	34 Eridani γ^1	3·1	...	3	52	20·21	103	51	24·8	8	0·06
139	36 Eridani τ^9	4·6	...	3	54	43·26	114	21	48·5	1	0·95
140	38 Tauri ν...	4·0	...	3	56	39·97	84	21	0·3	1	0·97

117.—Groombridge 595.

126.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
106	η^2 Fornacis	+ 2·4226	− 0·0009	...	− 15·060	+ 0·239	...	...
107	2 Eridani τ^2	+ 2·7240	+ 0·0016	− 0·006	− 15·049	+ 0·268	+ 0·02	404
108	η^3 Fornacis	+ 2·4252	− 0·0008	...	− 15·035	+ 0·240	...	...
109	Lacaille 948	+ 0·8434	+ 0·0342	...	− 14·837	+ 0·089	...	...
110	4 Eridani	+ 2·6596	+ 0·0014	+ 0·005	− 14·668	+ 0·270	+ 0·03	418
111	6 Eridani	+ 2·6631	+ 0·0015	$\bar{+}$ 0·001	− 14·627	+ 0·272	+ 0·00	423
112	92 Ceti α	+ 3·1308	+ 0·0098	− 0·003	− 14·431	+ 0·323	+ 0·07	428
113	23 Persei γ	+ 4·3057	+ 0·0594	− 0·002	− 14·428	+ 0·442	+ 0·00	422
114	10 Eridani ρ^3 ...	+ 2·9391	+ 0·0057	+ 0·003	− 14·286	+ 0·306	− 0·01	435
115	27 Persei κ	+ 4·0029	+ 0·0410	+ 0·015	− 14·101	+ 0·421	+ 0·16	438
116	28 Persei ω	+ 3·8532	+ 0·0336	− 0·003	− 13·966	+ 0·409	− 0·02	443
117	R. P. L. 33	+ 13·0004	+ 1·6070	+ 0·045	− 13·948	+ 1·368	+ 0·12	402
118	57 Arietis δ	+ 3·4093	+ 0·0171	+ 0·010	− 13·889	+ 0·364	− 0·01	446
119	95 Ceti	+ 3·0483	+ 0·0079	+ 0·016	− 13·410	+ 0·336	− 0·07	461
120	96 Ceti κ^1	+ 3·1232	+ 0·0094	+ 0·016	− 13·357	+ 0·345	− 0·11	463
121	15 Eridani	+ 2·6498	+ 0·0024	− 0·000	− 13·355	+ 0·294	− 0·01	466
122	ϵ Eridani	+ 2·1170	+ 0·0017	+ 0·266	− 13·219	+ 0·238	− 0·75	Stone
123	Radcliffe 956 ...	+ 4·8067	+ 0·0773	...	− 12·945	+ 0·541	...	...
124	Radcliffe 969 ...	+ 4·5403	+ 0·0610	...	− 12·846	+ 0·515	...	...
125	35 Persei σ	+ 4·2008	+ 0·0486	0·000	− 12·753	+ 0·477	− 0·02	479
126	R. P. L. 34	+ 19·1122	+ 3·2427	+ 0·136	− 12·436	+ 2·192	+ 0·06	Gr.
127	37 Persei ψ	+ 4·2328	+ 0·0486	+ 0·002	− 12·359	+ 0·491	+ 0·04	488
128	Lacaille 1164 ...	+ 0·5884	+ 0·0357	...	− 12·285	+ 0·073	...	...
129	10 Tauri	+ 3·0724	+ 0·0082	− 0·016	− 12·163	+ 0·361	+ 0·50	497
130	22 Eridani	+ 2·9666	+ 0·0065	− 0·003	− 11·886	+ 0·353	− 0·01	505
131	40 Persei o	+ 3·7469	+ 0·0235	− 0·000	− 11·740	+ 0·448	+ 0·00	501
132	25 Tauri η	+ 3·5539	+ 0·0177	− 0·000	− 11·486	+ 0·430	+ 0·04	521
133	28 Tauri	+ 3·5572	+ 0·0175	− 0·001	− 11·364	+ 0·432	+ 0·06	528
134	44 Persei ζ	+ 3·7569	+ 0·0221	− 0·000	− 11·085	+ 0·462	+ 0·00	534
135	32 Eridani	+ 3·0072	+ 0·0070	+ 0·002	− 10·911	+ 0·373	+ 0·00	540
136	ν^3 Eridani	+ 2·2822	+ 0·0026	− 0·003	− 10·848	+ 0·285	+ 0·05	Stone
137	45 Persei ϵ	+ 4·0061	+ 0·0289	+ 0·000	− 10·800	+ 0·497	+ 0·02	539
138	34 Eridani γ^1 ...	+ 2·7923	+ 0·0047	+ 0·008	− 10·602	+ 0·351	+ 0·11	546
139	36 Eridani τ^9 ...	+ 2·5551	+ 0·0033	− 0·000	− 10·424	+ 0·322	− 0·02	551
140	38 Tauri ν	+ 3·1859	+ 0·0093	+ 0·000	− 10·279	+ 0·403	+ 0·01	553

126.—Proper motions from *Greenwich Catalogue* of 1872.

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
141	R. P. L. 35	6·7	...	3	58	49·26	4	46	10·9	2	0·76
142	38 Eridani o^1	4·1	...	4	5	54·60	97	9	22·7	1	0·07
143	51 Persei μ	4·2	...	4	5	56·45	41	54	9·7	2	0·98
144	δ Horologii	5·0	5	4	6	44·31	132	18	46·4	5	0·06
145	ψ Horologii—1st	5·2	1	4	15	24·71	134	33	40·3	1	0·99
146	θ Reticuli	5·4	5	4	16	18·93	153	33	8·2	5	0·07
147	74 Tauri ϵ...	3·7	...	4	21	29·56	71	5	31·4	7	0·08
148	78 Tauri θ^2	3·6	...	4	21	41·42	74	24	11·1	1	0·99
149	δ Cœli	5·3	5	4	27	6·18	135	13	0·0	5	0·06
150	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	55·28	73	44	15·8	3	0·09
151	β Cœli	5·2	5	4	37	44·65	127	23	2·2	5	0·07
152	λ Pictoris	5·1	5	4	39	38·96	140	42	41·4	5	0·08
153	κ Doradûs	5·5	1	4	42	30·96	149	57	26·8	1	0·06
154	3 Aurigæ ι	2·7	...	4	49	2·98	57	1	43·5	6	0·09
155	γ^1 Cœli	5·1	5	5	0	1·21	125	39	3·6	5	0·07
156	γ^2 Cœli	5·6	5	5	0	4·92	125	52	33·5	5	0·07
157	2 Leporis ϵ	3·3	...	5	0	17·75	112	32	9·6	5	0·10
158	β Mensæ	5·7	5	5	4	18·39	161	28	54·1	5	0·08
159	19 Orionis β (*Rigel*) ...	0·3	...	5	8	40·47	98	20	37·7	3	0·12
160	o Columbæ	5·0	5	5	13	5·15	125	0	56·4	5	0·08
161	θ Doradûs	5·0	5	5	13	51·52	157	19	23·2	5	0·08
162	ζ Pictoris	5·3	5	5	16	22·59	140	44	15·4	5	0·09
163	112 Tauri β	1·9	...	5	18	34·81	61	29	51·6	4	0·07
164	κ Pictoris	5·1	5	5	20	7·47	146	14	57·3	5	0·09
165	θ Pictoris—2nd	5·6	5	5	22	0·29	142	25	23·3	5	0·11
166	R. P. L. 40	6·0	...	5	23	4·22	4	52	14·4	6	0·18
167	34 Orionis δ, Var. 1 ...	Var.	...	5	25	46·45	90	23	25·0	2	0·12
168	11 Leporis α	2·7	...	5	27	20·96	107	54	38·5	1	0·12
169	37 Orionis ϕ^1	4·4	...	5	28	7·38	80	35	39·9	5	0·08
170	39 Orionis λ—1st ...	3·7	...	5	28	25·05	80	8	56·8	5	0·09
171	46 Orionis ϵ	1·8	...	5	30	1·32	91	16	52·2	3	0·13
172	40 Orionis ϕ^2	4·4	...	5	30	12·12	80	46	36·7	5	0·10
173	α Columbæ	2·7	...	5	35	13·88	124	8	23·7	2	0·11
174	14 Leporis ζ	3·7	...	5	41	25·57	104	52	6·6	5	0·07
175	μ Columbæ	5·5	5	5	41	27·78	122	21	15·0	5	0·08

141.—Groombridge 750.

166.—Groombridge 944.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
141	R. P. L. 35	+ 16·9065	+ 1·8087	+ 0·057	− 10·117	+ 2·132	− 0·05	Gr.
142	38 Eridani o^1 ...	+ 2·0248	+ 0·0058	− 0·001	− 9·576	+ 0·379	− 0·09	568
143	51 Persei μ	+ 4·3814	+ 0·0862	− 0·001	− 9·573	+ 0·565	+ 0·03	564
144	δ Horologii	+ 2·0008	+ 0·0039	+ 0·013	− 9·513	+ 0·261	0·00	Stone
145	ψ Horologii—1st ...	+ 1·8903	+ 0·0045	− 0·002	− 8·837	+ 0·251	− 0·03	Stone
146	θ Reticuli	+ 0·6550	+ 0·0231	− 0·009	− 8·766	+ 0·090	+ 0·05	Stone
147	74 Tauri ϵ	+ 3·4886	+ 0·0120	+ 0·007	− 8·357	+ 0·466	+ 0·03	609
148	78 Tauri θ^2	+ 3·4116	+ 0·0110	+ 0·006	− 8·341	+ 0·456	+ 0·00	613
149	δ Cœli	+ 1·8343	+ 0·0048	− 0·006	− 7·909	+ 0·249	+ 0·04	Stone
150	87 Tauri α	+ 3·4318	+ 0·0105	+ 0·004	− 7·762	+ 0·464	+ 0·18	630
151	β Cœli	+ 2·1158	+ 0·0036	− 0·006	− 7·044	+ 0·292	− 0·20	Stone
152	λ Pictoris	+ 1·5376	+ 0·0068	+ 0·001	− 6·888	+ 0·214	− 0·02	Stone
153	κ Doradûs	+ 0·8915	+ 0·0141	...	− 6·505	+ 0·125	...	...
154	3 Aurigæ ι	+ 3·8982	+ 0·0144	+ 0·001	− 6·110	+ 0·544	+ 0·00	677
155	γ^1 Cœli	+ 2·1460	+ 0·0033	+ 0·007	− 5·189	+ 0·304	+ 0·09	Stone
156	γ^2 Cœli	+ 2·1382	+ 0·0034	− 0·000	− 5·184	+ 0·303	− 0·10	Stone
157	2 Leporis ϵ	+ 2·5362	+ 0·0033	+ 0·000	− 5·165	+ 0·359	+ 0·07	713
158	β Mensæ	− 0·8024	+ 0·0393	...	− 4·825	− 0·112	...	...
159	19 Orionis β... ...	+ 2·8810	+ 0·0040	− 0·001	− 4·454	+ 0·412	− 0·01	736
160	o Columbæ	+ 2·1557	+ 0·0032	+ 0·010	− 4·077	+ 0·310	+ 0·31	Stone
161	θ Doradûs	− 0·0628	+ 0·0206	...	− 4·010	− 0·007	− 0·04	Stone
162	ζ Pictoris	+ 1·4662	+ 0·0053	+ 0·003	− 3·795	+ 0·212	− 0·14	Stone
163	112 Tauri β	+ 3·7864	+ 0·0082	+ 0·001	− 3·605	+ 0·545	+ 0·18	756
164	κ Pictoris	+ 1·1016	+ 0·0071	− 0·004	− 3·472	+ 0·159	− 0·09	Stone
165	θ Pictoris—2nd ...	+ 1·3585	+ 0·0055	...	− 3·309	+ 0·196	+ 0·04	Stone
166	R. P. L. 40	+ 18·5579	+ 0·6238	...	− 3·234	+ 2·672	...	...
167	34 Orionis δ	+ 3·0632	+ 0·0038	− 0·001	− 2·984	+ 0·443	+ 0·01	787
168	11 Leporis α	+ 2·6445	+ 0·0029	− 0·001	− 2·848	+ 0·383	− 0·01	796
169	37 Orionis ϕ^1 ...	+ 3·2915	+ 0·0043	− 0·002	− 2·781	+ 0·476	+ 0·00	792
170	39 Orionis λ	+ 3·3022	+ 0·0044	− 0·002	− 2·755	+ 0·478	+ 0·02	794
171	46 Orionis ϵ	+ 3·0426	+ 0·0035	− 0·002	− 2·616	+ 0·441	− 0·01	809
172	40 Orionis ϕ^2 ...	+ 3·2875	+ 0·0042	+ 0·004	− 2·600	+ 0·476	+ 0·31	805
173	α Columbæ	+ 2·1710	+ 0·0027	+ 0·005	− 2·164	+ 0·316	+ 0·03	Stone
174	14 Leporis ζ... ...	+ 2·7185	+ 0·0026	− 0·002	− 1·624	+ 0·396	− 0·01	843
175	μ Columbæ	+ 2·2281	+ 0·0027	− 0·005	− 1·620	+ 0·325	+ 0·04	Stone

141.—Proper motions from *Greenwich Catalogue* of 1872.

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
176	β Pictoris	4·5	5	5	44	23·89	141	6	41·2	5	0·09
177	8 Doradûs	4·5	5	5	44	33·39	155	46	54·2	5	0·11
178	15 Leporis δ	4·0	...	5	46	4·45	110	53	25·4	5	0·10
179	γ Pictoris	4·6	4	5	47	36·76	146	11	51·7	5	0·13
180	58 Orionis α (*Betelgeux*) ...	Var.	...	5	48	34·04	82	37	1·0	8	0·14
181	λ Columbæ	5·0	5	5	48	41·03	123	49	44·8	5	0·12
182	ϵ Doradûs	5·1	5	5	50	1·47	156	55	54·3	5	0·09
183	61 Orionis μ	4·3	...	5	55	40·36	80	21	14·6	5	0·08
184	R. P. L. 43	6·6	...	5	58	15·57	3	14	14·8	5	0·22
185	67 Orionis ν	4·4	...	6	0	36·43	75	13	5·8	8	0·16
186	18 Leporis θ	4·6	...	6	0	38·06	104	55	31·8	5	0·10
187	π^1 Columbæ	5·7	5	6	2	54·78	132	17	2·8	5	0·09
188	θ Columbæ	5·1	5	6	3	20·60	127	14	9·2	5	0·11
189	π^2 Columbæ	5·6	5	6	4	5·62	132	8	8·3	5	0·12
190	70 Orionis ξ	4·2	...	6	5	0·17	75	45	55·8	5	0·08
191	44 Aurigæ κ	4·5	...	6	7	36·27	60	27	30·7	5	0·14
192	5 Monocerotis	4·0	...	6	8	54·40	96	14	19·6	5	0·13
193	ν Doradûs	5·6	4	6	9	31·18	158	49	1·1	4	0·13
194	η^3 Doradûs	5·5	5	6	10	59·61	155	33	39·8	5	0·08
195	κ Columbæ	4·5	5	6	12	12·64	125	6	3·9	5	0·08
196	13 Geminorum μ	3·2	...	6	15	34·81	67	25	32·7	12	0·11
197	λ Canis Majoris	4·1	...	6	23	38·89	122	30	15·4	6	0·13
198	π^1 Doradûs	5·6	5	6	23	47·50	159	55	0·0	5	0·12
199	π^2 Doradûs	5·6	5	6	26	31·01	159	37	15·3	5	0·14
200	4 Canis Majoris ξ^1 ...	4·2	...	6	26	46·35	113	19	54·8	5	0·14
201	5 Canis Majoris ξ^2 ...	4·4	...	6	29	56·66	112	52	9·1	5	0·14
202	μ Pictoris	5·5	5	6	30	9·10	148	39	43·4	5	0·15
203	24 Geminorum γ	2·0	...	6	30	39·82	73	29	54·6	11	0·11
204	7 Canis Majoris ν^2 ...	4·2	...	6	31	21·62	109	9	10·4	4	0·16
205	8 Canis Majoris ν^3 ...	4·7	...	6	32	31·39	108	7	57·7	4	0·14
206	Taylor 2633	5·0	5	6	35	22·59	138	6	41·8	5	0·13
207	Lalande 12863	7·6	2	6	35	26·27	83	32	25·9	2	0·06
208	18 Monocerotis	4·8	...	6	41	30·07	87	27	20·1	5	0·11
209	51 Cephei (*Hev.*)	5·0	...	6	42	46·13	2	46	5·4	2	0·19
210	ϖ Puppis	5·1	5	6	43	10·88	127	47	45·9	5	0·13

184.—Groombridge 1004.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	β Pictoris	+ 1·4186	+ 0·0036	...	− 1·364	+ 0·207	− 0·06	Stone
177	δ Doradûs	+ 0·1066	+ 0·0082	− 0·002	− 1·351	+ 0·016	+ 0·02	Stone
178	15 Leporis δ	+ 2·5630	+ 0·0024	+ 0·016	− 1·218	+ 0·374	+ 0·65	858
179	γ Pictoris	+ 1·0782	+ 0·0043	...	− 1·083	+ 0·157	...	...
180	58 Orionis α	+ 3·2453	+ 0·0027	+ 0·001	− 1·000	+ 0·473	− 0·02	860
181	λ Columbæ	+ 2·1774	+ 0·0025	0·000	− 0·990	+ 0·317	− 0·09	Stone
182	ε Doradûs	− 0·0639	+ 0·0070	− 0·003	− 0·872	− 0·009	− 0·09	Stone
183	61 Orionis μ	+ 3·2995	+ 0·0022	+ 0·000	− 0·379	+ 0·481	− 0·02	877
184	R. P. L. 43	+ 26·7064	+ 0·0575	...	− 0·152	+ 3·894	...	...
185	67 Orionis ν	+ 3·4250	+ 0·0017	− 0·000	+ 0·053	+ 0·500	+ 0·01	887
186	18 Leporis θ	+ 2·7159	+ 0·0021	− 0·002	+ 0·055	+ 0·396	− 0·01	892
187	π^1 Columbæ	+ 1·8566	+ 0·0023	...	+ 0·254	+ 0·271	...	...
188	θ Columbæ	+ 2·0563	+ 0·0022	− 0·007	+ 0·293	+ 0·300	− 0·01	Stone
189	π^2 Columbæ ...	+ 1·8630	+ 0·0023	...	+ 0·358	+ 0·272	...	...
190	70 Orionis ξ	+ 3·4113	+ 0·0013	− 0·001	+ 0·438	+ 0·496	+ 0·02	903
191	44 Aurigæ κ	+ 3·8296	+ 0·0003	− 0·005	+ 0·666	+ 0·558	+ 0·26	907
192	5 Monocerotis ...	+ 2·9262	+ 0·0016	− 0·001	+ 0·779	+ 0·426	+ 0·06	920
193	ρ Doradûs	− 0·3746	− 0·0011	...	+ 0·832	− 0·054	...	...
194	η^2 Doradûs	+ 0·1338	− 0·0003	...	+ 0·963	+ 0·019	...	...
195	κ Columbæ	+ 2·1342	+ 0·0021	...	+ 1·068	+ 0·311	...	...
196	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·362	+ 0·527	+ 0·10	929
197	λ Canis Majoris ...	+ 2·2250	+ 0·0018	− 0·007	+ 2·066	+ 0·322	0·00	Stone
198	π^1 Doradûs	− 0·5647	− 0·0095	...	+ 2·083	− 0·079	− 0·08	Stone
199	π^2 Doradûs	− 0·5025	− 0·0104	...	+ 2·315	− 0·074	− 0·09	Stone
200	4 Canis Majoris ξ^1 ...	+ 2·4995	+ 0·0015	− 0·006	+ 2·338	+ 0·361	− 0·01	962
201	5 Canis Majoris ξ^2 ...	+ 2·5131	+ 0·0014	+ 0·002	+ 2·613	+ 0·362	− 0·03	972
202	μ Pictoris	+ 0·8957	− 0·0015	...	+ 2·632	+ 0·129	...	...
203	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·675	+ 0·500	+ 0·04	969
204	7 Canis Majoris ν^2 ...	+ 2·6122	+ 0·0013	+ 0·003	+ 2·735	+ 0·376	+ 0·04	978
205	8 Canis Majoris ν^3 ...	+ 2·6388	+ 0·0013	− 0·001	+ 2·837	+ 0·380	− 0·02	879
206	Taylor 2633	+ 1·5992	+ 0·0008	...	+ 3·083	+ 0·230	...	...
207	Lalande 12863 ...	+ 3·2226	− 0·0007	...	+ 3·088	+ 0·463	...	...
208	18 Monocerotis ...	+ 3·1307	− 0·0006	− 0·002	+ 3·615	+ 0·447	+ 0·01	995
209	51 Cephei (*Her.*) ...	+ 30·2428	− 2·1382	− 0·040	+ 3·721	+ 4·331	+ 0·05	Gr.
210	ω Puppis ...	+ 2·0537	+ 0·0014	− 0·001	+ 3·755	+ 0·292	+ 0·06	114

209.—Proper motions from *Greenwich Catalogue* of 1880.

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	34 Geminorum θ	3·7	...	6	44	44·81	55	53	36·3	5	0·14
212	Taylor 2727	5·0	4	6	46	25·97	124	13	26·7	4	0·12
213	Taylor 2731	5·4	6	6	46	28·09	136	29	6·7	6	0·15
214	Taylor 2742	5·2	5	6	47	12·06	143	28	48·0	5	0·16
215	*u* Puppis	5·6	5	6	47	24·30	126	4	56·3	5	0·15
216	14 Canis Majoris θ ...	4·2	...	6	48	31·49	101	53	11·8	5	0·14
217	18 Canis Majoris μ ...	5·2	...	6	50	31·21	103	53	~~11·6~~ 12·0	5	0·14
218	20 Canis Majoris ι ...	4·5	...	6	50	41·72	106	53	48·9	5	0·16
219	ι Volantis	5·8	5	6	52	50·48	160	48	41·2	5	0·16
220	21 Canis Majoris ε ...	1·5	...	6	53	49·88	118	48	25·6	4	0·11
221	*t* Puppis	5·0	5	6	53	57·11	123	56	49·9	5	0·13
222	23 Canis Majoris γ ...	4·1	...	6	58	14·36	105	27	14·3	11	0·13
223	Taylor 2843	4·6	5	7	0	10·71	132	9	26·9	5	0·14
224	Taylor 2866	5·6	5	7	3	7·45	130	42	10·6	5	0·13
225	46 Geminorum τ	4·6	...	7	3	22·43	59	33	23·4	5	0·14
226	Taylor 2885	5·1	5	7	4	45·10	129	27	37·7	5	0·14
227	Radcliffe 1887	4·5	...	7	5	18·19	7	21	34·4	5	0·17
228	22 Monocerotis	4·0	...	7	5	38·07	90	17	29·7	5	0·17
229	Taylor 2920	5·1	5	7	8	13·27	130	17	36·1	5	0·15
230	Taylor 2934	5·0	5	7	9	4·97	136	33	22·6	5	0·16
231	27 Canis Majoris	4·5	...	7	9	16·82	116	8	34·7	5	0·16
232	Taylor 2938	5·0	5	7	9	34·28	134	58	17·1	5	0·15
233	γ Volantis—2nd	5·0	5	7	9	46·56	160	18	3·2	5	0·18
234	30 Canis Majoris	4·3	...	7	13	38·91	114	43	56·6	5	0·14
235	Taylor 2982	5·1	5	7	14	23·94	128	59	16·7	5	0·14
236	δ Volantis	5·0	6	7	16	53·00	157	44	2·3	6	0·14
237	62 Geminorum ρ	4·2	...	7	21	15·70	57	58	27·9	5	0·13
238	Taylor 3075	5·0	5	7	24	22·42	121	12	19·8	5	0·15
239	κ^3 Puppis	5·1	5	7	25	58·07	120	42	24·0	5	0·15
240	66 Geminorum α^2 (*Castor*).	2·8	...	7	26	48·89	57	50	44·8	16	0·20
241	n^1 Puppis	4·0	5	7	29	9·34	113	12	31·8	5	0·17
242	n^2 Puppis	5·8	5	7	29	9·94	113	12	34·5	5	0·17
243	*g* Puppis	5·3	5	7	29	27·12	115	51	1·6	5	0·17
244	10 Can. Min. α (*Procyon*)...	0·5	...	7	32	54·92	84	27	46·7	3	0·14
245	κ^1 Puppis	4·8	5	7	33	49·31	116	31	31·0	5	0·17

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
211	34 Geminorum θ ...	+ 3·9604	− 0·0071	− 0·000	+ 3·891	+ 0·565	+ 0·03	1003
212	Taylor 2727	+ 2·1814	+ 0·0015	− 0·001	+ 4·035	+ 0·310	− 0·04	Stone
213	Taylor 2731	+ 1·6980	+ 0·0006	...	+ 4·038	+ 0·240	...	...
214	Taylor 2742	+ 1·3050	− 0·0011	...	+ 4·102	+ 0·184	...	...
215	υ Puppis	+ 2·1187	+ 0·0014	...	+ 4·119	+ 0·301	...	...
216	14 Canis Majoris θ ...	+ 2·7971	+ 0·0004	− 0·011	+ 4·215	+ 0·397	+ 0·00	1011
217	18 Canis Majoris μ ...	+ 2·7497	+ 0·0005	− 0·002	+ 4·385	+ 0·389	− 0·01	1017
218	20 Canis Majoris ι ...	+ 2·6760	+ 0·0008	− 0·002	+ 4·400	+ 0·379	− 0·02	1019
219	ι Volantis	− 0·6678	− 0·0276	...	+ 4·583	− 0·097	...	...
220	21 Canis Majoris ε ...	+ 2·3572	+ 0·0013	− 0·001	+ 4·667	+ 0·332	− 0·02	1023
221	*t* Puppis	+ 2·1971	+ 0·0013	− 0·004	+ 4·677	+ 0·310	− 0·07	Stone
222	23 Canis Majoris γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·041	+ 0·381	+ 0·00	1028
223	Taylor 2843	+ 1·9033	+ 0·0008	...	+ 5·206	+ 0·266	...	...
224	Taylor 2866	+ 1·9655	+ 0·0010	...	+ 5·454	+ 0·274	...	...
225	46 Geminorum τ ...	+ 3·8280	− 0·0090	− 0·008	+ 5·475	+ 0·535	+ 0·05	1033
226	Taylor 2885	+ 2·0153	+ 0·0011	− 0·008	+ 5·590	+ 0·280	+ 0·05	Stone
227	Radcliffe 1887 ...	+ 13·0065	− 0·4912	+ 0·009	+ 5·637	+ 1·818	+ 0·02	Main
228	22 Monocerotis ...	+ 3·0658	− 0·0016	− 0·001	+ 5·665	+ 0·427	− 0·03	1047
229	Taylor 2920	+ 1·9885	+ 0·0009	− 0·010	+ 5·882	+ 0·274	+ 0·05	Stone
230	Taylor 2934	+ 1·7243	− 0·0001	...	+ 5·954	+ 0·237	...	...
231	27 Canis Majoris ...	+ 2·4458	+ 0·0011	− 0·002	+ 5·970	+ 0·338	− 0·05	1059
232	Taylor 2938	+ 1·7977	+ 0·0003	...	+ 5·994	+ 0·247	...	...
233	γ Volantis—2nd ...	− 0·4901	− 0·0333	...	+ 6·012	− 0·071	...	...
234	30 Canis Majoris ...	+ 2·4879	+ 0·0010	− 0·002	+ 6·334	+ 0·341	− 0·03	1069
235	Taylor 2982	+ 2·0466	+ 0·0009	− 0·018	+ 6·396	+ 0·280	0·00	Stone
236	δ Volantis	− 0·0111	− 0·0251	− 0·004	+ 6·602	− 0·004	0·00	Stone
237	62 Geminorum ρ ...	+ 3·8564	− 0·0124	+ 0·009	+ 6·963	+ 0·525	− 0·19	1078
238	Taylor 3075	+ 2·3166	+ 0·0011	...	+ 7·217	+ 0·312	...	...
239	κ^3 Puppis	+ 2·3334	+ 0·0011	...	+ 7·348	+ 0·314	− 0·04	Stone
240	66 Geminorum α^3 ...	+ 3·8531	− 0·0133	− 0·015	+ 7·416	+ 0·519	+ 0·08	1087
241	n^1 Puppis	+ 2·5418	+ 0·0007	...	+ 7·606	+ 0·340	...	...
242	n^2 Puppis	+ 2·5418	+ 0·0007	...	+ 7·607	+ 0·340	...	...
243	*g* Puppis	+ 2·4732	+ 0·0010	...	+ 7·630	+ 0·331	...	...
244	10 Canis Minoris α ...	+ 3·1914	− 0·0041	− 0·047	+ 7·910	+ 0·425	+ 1·03	1106
245	κ^1 Puppis	+ 2·4601	+ 0·0010	...	+ 7·982	+ 0·326	...	...

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
246	κ^2 Puppis	5·3	5	7	33	49·96	116	31	38·4	5	0·18
247	26 Monocerotis γ	4·2	...	7	35	25·12	99	16	3·9	5	0·18
248	78 Geminorum β (*Pollux*)..	1·1	...	7	37	50·94	61	40	51·4	2	0·17
249	3 Puppis	5·1	5	7	38	54·65	118	39	51·2	5	0·17
250	Taylor 3214	4·7	5	7	39	32·64	130	38	11·6	5	0·16
251	c Puppis	5·0	5	7	40	54·44	127	40	23·3	5	0·16
252	o Puppis	5·1	5	7	43	0·82	115	38	6·6	5	0·18
253	ζ Volantis	6·6	3	7	43	18·56	162	18	50·0	3	0·24
254	Taylor 3279	4·5	3	7	45	31·28	136	3	58·9	3	0·15
255	9 Puppis	5·1	4	7	46	7·29	103	34	31·3	4	0·19
256	R.P.L. 49	6·7	...	7	47	29·12	5	35	39·4	3	0·50
257	Taylor 3297	5·1	5	7	47	42·34	124	23	57·7	5	0·18
258	a Puppis	5·0	4	7	48	1·40	130	15	44·0	4	0·24
259	b Puppis	5·0	4	7	48	19·47	128	32	52·5	4	0·19
260	Taylor 3317	5·0	5	7	49	37·25	139	17	47·0	5	0·17
261	B. F. 1129	5·2	5	7	54	23·88	108	3	55·4	5	0·16
262	Taylor 3362	5·0	5	7	54	43·82	138	54	50·4	5	0·18
263	6 Cancri	5·0	...	7	56	1·37	61	51	54·9	10	0·17
264	15 Argûs i	2·9	...	8	2	20·89	113	57	12·0	4	0·17
265	29 Monocerotis	4·5	...	8	2	27·73	92	37	46·2	5	0·24
266	16 Puppis	5·0	5	8	3	34·79	108	53	17·2	5	0·15
367	γ Argûs—1st	5·0	5	8	5	43·80	136	59	11·9	5	0·17
268	Taylor 3478	5·8	2	8	6	43·03	145	43	34·9	2	0·23
269	Taylor 3484	5·5	3	8	6	59·17	150	55	56·7	3	0·23
270	h^1 Puppis	5·6	2	8	7	0·07	129	15	20·4	2	0·23
271	Taylor 3480	5·4	2	8	7	18·64	132	37	25·1	2	0·22
272	ϵ Volantis	5·1	3	8	7	31·71	158	15	33·0	3	0·22
273	20 Puppis	5·1	5	8	7	43·43	105	25	17·6	5	0·18
274	r Puppis	5·0	5	8	8	53·28	125	31	54·2	5	0·17
275	17 Cancri β	3·8	...	8	9	53·79	80	26	22·8	5	0·16
276	30 Lyncis	5·9	...	8	10	34·13	31	52	41·4	1	0·24
277	Lacaille 3275	5·8	2	8	13	25·08	152	32	23·8	2	0·23
278	q Puppis	5·0	5	8	13	59·44	126	16	55·3	5	0·15
279	31 Lyncis	4·4	...	8	14	28·81	46	25	19·6	1	0·25
280	Radcliffe 2130	5·0	1	8	14	33·84	36	23	19·4	1	0·25

256.—Groombridge 1359.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
246	κ^2 Puppis	+ 2·4601	+ 0·0010	...	+ 7·984	+ 0·326	...	...
247	26 Monocerotis γ ...	+ 2·8728	− 0·0011	− 0·008	+ 8·110	+ 0·380	+ 0·02	1110
248	78 Geminorum β ...	+ 3·7280	− 0·0128	− 0·048	+ 8·305	+ 0·491	+ 0·05	1112
249	3 Puppis	+ 2·4084	+ 0·0011	− 0·002	+ 8·389	+ 0·315	+ 0·05	Stone
250	Taylor 3214	+ 2·0314	+ 0·0008	...	+ 8·439	+ 0·265	...	...
251	c Puppis	+ 2·1384	+ 0·0011	0·000	+ 8·547	+ 0·278	0·00	Stone
252	o Puppis	+ 2·4944	+ 0·0008	− 0·004	+ 8·715	+ 0·324	0·00	Stone
253	ζ Volantis	− 0·7016	− 0·0610	...	+ 8·737	− 0·096	...	...
254	Taylor 3279	+ 1·8291	− 0·0001	− 0·002	+ 8·911	+ 0·235	0·00	Stone
255	9 Puppis	+ 2·7834	− 0·0006	...	+ 8·958	+ 0·359	...	...
256	R. P. L. 49	+ 15·2467	− 1·2388	...	+ 9·064	+ 1·979	...	...
257	Taylor 3297	+ 2·2561	+ 0·0014	− 0·019	+ 9·082	+ 0·290	− 0·32	Stone
258	a Puppis	+ 2·0635	+ 0·0010	...	+ 9·106	+ 0·264	...	...
259	b Puppis	+ 2·1238	+ 0·0012	...	+ 9·130	+ 0·272	...	...
260	Taylor 3317	+ 1·6925	− 0·0012	...	+ 9·230	+ 0·215	− 0·02	Stone
261	B. F. 1129	+ 2·6894	+ 0·0002	...	+ 9·599	+ 0·340	...	...
262	Taylor 3362	+ 1·7271	− 0·0010	...	+ 9·626	+ 0·217	...	...
263	6 Canori	+ 3·6975	− 0·0148	− 0·003	+ 9·724	+ 0·468	+ 0·04	1149
264	15 Argûs i	+ 2·5609	+ 0·0009	− 0·008	+ 10·205	+ 0·318	− 0·06	1170
265	29 Monocerotis ...	+ 3·0194	− 0·0031	− 0·003	+ 10·211	+ 0·375	− 0·02	1168
266	16 Puppis	+ 2·6797	+ 0·0003	...	+ 10·297	+ 0·332	...	...
267	γ Argûs—1st ...	+ 1·8496	0·0000	...	+ 10·458	+ 0·226	...	...
268	Taylor 3478	+ 1·4028	− 0·0052	...	+ 10·532	+ 0·169	...	...
269	Taylor 3484	+ 1·0268	− 0·0129	...	+ 10·552	+ 0·122	...	...
270	h^1 Puppis	+ 2·1432	+ 0·0015	...	+ 10·553	+ 0·261	...	...
271	Taylor 3480	+ 2·0269	+ 0·0011	...	+ 10·575	+ 0·246	...	...
272	ϵ Volantis	+ 0·2255	− 0·0364	− 0·015	+ 10·592	+ 0·023	− 0·06	Stone
273	20 Puppis	+ 2·7593	− 0·0004	...	+ 10·606	+ 0·337	...	...
274	r Puppis	+ 2·2646	+ 0·0018	− 0·004	+ 10·693	+ 0·275	+ 0·02	Stone
275	17 Canori β	+ 3·2622	− 0·0072	− 0·004	+ 10·768	+ 0·397	+ 0·04	1180
276	30 Lyncis	+ 4·8825	− 0·0611	+ 0·005	+ 10·818	+ 0·595	− 0·04	1178
277	Lacaille 3275 ...	+ 0·9283	− 0·0157	...	+ 11·026	+ 0·108	...	...
278	q Puppis	+ 2·2589	+ 0·0020	− 0·017	+ 11·068	+ 0·269	+ 0·11	Stone
279	31 Lyncis	+ 4·1316	− 0·0811	+ 0·001	+ 11·104	+ 0·497	+ 0·11	1183
280	Radcliffe 2130 ...	+ 4·5825	− 0·0492	...	+ 11·110	+ 0·552	...	...

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
281	*w* Puppis	5·0	5	8	16	34·69	122	40	1·9	5	0·15
282	Lacaille 3308	5·2	5	8	18	46·42	138	5	57·0	5	0·15
283	Taylor 3582	5·6	3	8	19	33·88	93	30	35·0	3	0·23
284	Taylor 3589	6·0	3	8	19	47·76	113	39	4·3	3	0·23
285	Taylor 3590	9·2	5	8	19	50·80	113	39	1·5	5	0·25
286	1 Ursæ Majoris *o*... ...	3·4	...	8	20	7·00	28	52	33·1	5	0·17
287	2 Ursæ Majoris A ...	5·3	...	8	23	40·18	24	26	26·1	2	0·25
288	β Volantis...	5·0	5	8	24	24·37	155	43	48·1	5	0·15
289	33 Cancri η	5·5	...	8	25	39·10	69	8	44·7	10	0·20
290	4 Ursæ Majoris π^2 ...	4·8	...	8	29	32·00	25	14	51·5	5	0·24
291	Taylor 3702	5·5	3	8	31	0·21	139	31	28·4	3	0·23
292	4 Hydræ δ...	4·1	...	8	31	11·75	83	52	18·3	5	0·15
293	Taylor 3717	5·7	2	8	32	13·57	140	32	49·4	2	0·24
294	*e* Velorum...	5·0	5	8	33	21·25	132	33	46·4	5	0·16
295	*f* Mali	5·5	5	8	34	38·67	119	7	39·9	5	0·26
296	Taylor 3742	6·0	1	8	35	16·80	142	39	39·8	1	0·28
297	*b* Mali	5·0	5	8	35	19·69	124	52	34·4	5	0·15
298	*d* Carinæ	5·0	5	8	37	55·15	149	19	34·4	5	0·25
299	*a* Mali	4·4	5	8	38	41·43	122	44	50·7	5	0·22
300	48 Cancri *i*	4·2	...	8	39	18·86	60	47	41·2	1	0·24
301	11 Hydræ ϵ	3·6	...	8	40	18·73	83	8	2·8	3	0·19
302	*a* Velorum...	5·0	5	8	41	53·47	135	35	46·5	5	0·25
303	13 Hydræ ρ	4·3	...	8	41	58·04	83	42	43·6	2	0·25
304	14 Hydræ	5·1	...	8	43	13·94	92	59	29·5	4	0·27
305	*f* Carinæ	5·1	5	8	43	33·30	146	19	18·6	5	0·22
306	*g* Velorum...	5·5	5	8	45	34·55	134	51	16·8	5	0·24
307	16 Hydræ ζ	3·3	...	8	48	56·79	83	35	26·8	5	0·24
308	R. P. L. 60	7·0	...	8	49	35·06	5	20	0·7	1	0·20
309	8 Ursæ Majoris ρ... ...	5·0	...	8	51	31·03	21	53	47·1	3	0·28
310	*c* Carinæ	5·4	6	8	52	17·11	150	10	43·2	6	0·25
311	12 Ursæ Majoris κ ...	3·7	...	8	55	17·35	42	21	43·4	5	0·24
312	11 Ursæ Majoris σ^1 ...	5·3	...	8	57	39·32	22	38	18·0	3	0·28
313	Radcliffe 2271	5·1	5	8	58	45·90	51	3	40·0	5	0·25
314	13 Ursæ Majoris σ^2 ...	4·8	...	8	59	38·80	22	22	17·4	1	0·24
315	*c* Velorum...	5·0	5	8	59	56·90	136	36	46·8	5	0·21

308.—Carrington 1286.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
281	w Puppis	+ 2·3628	+ 0·0020	...	+11·256	+ 0·280	...	...
282	Lacaille 3308 ...	+ 1·8471	+ 0·0002	− 0·007	+11·414	+ 0·217	− 0·01	Stone
283	Taylor 3582	+ 3·0050	− 0·0032	...	+11·472	+ 0·356	...	...
284	Taylor 3589	+ 2·5923	+ 0·0011	...	+11·488	+ 0·305	...	...
285	Taylor 3590	+ 2·5924	+ 0·0011	...	+11·492	+ 0·305	...	...
286	1 Ursæ Majoris o ...	+ 5·0573	− 0·0763	− 0·019	+11·511	+ 0·599	+ 0·11	1186
287	2 Ursæ Majoris A ...	+ 5·4546	− 0·1036	− 0·010	+11·764	+ 0·640	+ 0·06	1195
288	β Volantis	+ 0·6764	− 0·0251	− 0·009	+11·816	+ 0·075	+ 0·12	Stone
289	33 Cancri η	+ 3·4821	− 0·0129	− 0·004	+11·904	+ 0·404	+ 0·05	1207
290	4 Ursæ Majoris π^3 ...	+ 5·3249	− 0·1002	− 0·011	+12·176	+ 0·613	− 0·02	1206
291	Taylor 3702	+ 1·8335	+ 0·0003	...	+12·278	+ 0·207	...	...
292	4 Hydræ δ	+ 3·1857	− 0·0065	− 0·007	+12·292	+ 0·362	+ 0·00	1217
293	Taylor 3717	+ 1·7931	− 0·0002	...	+12·362	+ 0·201	...	...
294	e Velorum	+ 2·1093	+ 0·0023	...	+12·440	+ 0·236	+ 0·02	Stone
295	f Mali...	+ 2·4906	+ 0·0023	...	+12·528	+ 0·279	...	...
296	Taylor 3742	+ 1·7060	− 0·0012	...	+12·572	+ 0·189	...	...
297	b Mali	+ 2·3464	+ 0·0028	...	+12·575	+ 0·262	...	...
298	d Carinæ	+ 1·3326	− 0·0080	...	+12·750	+ 0·145	+ 0·02	Stone
299	a Mali	+ 2·4104	+ 0·0028	...	+12·803	+ 0·266	...	...
300	48 Cancri ι	+ 3·6462	− 0·0194	− 0·002	+12·844	+ 0·403	+ 0·03	1239
301	11 Hydræ ϵ	+ 3·1954	− 0·0071	− 0·014	+12·912	+ 0·351	+ 0·02	1243
302	a Velorum	+ 2·0339	+ 0·0023	− 0·009	+13·017	+ 0·220	− 0·04	Stone
303	13 Hydræ ρ	+ 3·1843	− 0·0068	− 0·008	+13·022	+ 0·347	+ 0·02	1248
304	14 Hydræ	+ 3·0194	− 0·0035	...	+13·106	+ 0·328	...	...
305	f Carinæ	+ 1·5555	− 0·0035	...	+13·127	+ 0·165	+ 0·02	Stone
306	g Velorum	+ 2·0744	+ 0·0028	...	+13·261	+ 0·221	...	...
307	16 Hydræ ζ	+ 3·1834	− 0·0069	− 0·008	+13·480	+ 0·338	− 0·02	1261
308	R. P. L. 60	+13·6483	− 1·7103	...	+13·521	+ 0·464	...	...
309	8 Ursæ Majoris ρ ...	+ 5·5099	− 0·1365	− 0·004	+13·646	+ 0·584	− 0·02	1257
310	c Carinæ	+ 1·3685	− 0·0078	...	+13·695	+ 0·140	...	...
311	12 Ursæ Majoris κ ...	+ 4·1300	− 0·0434	− 0·004	+13·886	+ 0·429	+ 0·07	1272
312	11 Ursæ Majoris σ^1...	+ 5·3621	− 0·1305	+ 0·001	+14·035	+ 0·554	+ 0·05	1271
313	Radcliffe 2271 ...	+ 3·8402	− 0·0303	...	+14·104	+ 0·393	...	...
314	13 Ursæ Majoris σ^2...	+ 5·3726	− 0·1336	+ 0·000	+14·159	+ 0·550	+ 0·06	1276
315	c Velorum	+ 2·0719	+ 0·0035	− 0·018	+14·177	+ 0·208	− 0·14	Stone

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
316	14 Ursæ Majoris τ ...	4·8	...	9	0	50·43	25	59	28·7	1	0·26
317	Taylor 3991	5·6	2	9	2	41·54	115	22	1·7	2	0·22
318	E Carinæ	5·5	3	9	4	38·16	160	2	54·7	3	0·27
319	16 Ursæ Majoris *c* ...	5·2	...	9	4	40·98	28	4	31·8	5	0·24
320	*e* Mali	5·5	3	9	4	46·43	119	52	4·7	3	0·28
321	18 Ursæ Majoris *e* ...	4·9	...	9	7	24·22	35	28	32·1	3	0·25
322	α Carinæ	5·0	5	9	7	45·35	148	28	3·8	5	0·22
323	*l* Velorum	5·0	2	9	10	48·51	128	3	43·3	2	0·28
324	k^2 Velorum	5·5	2	9	10	52·35	126	54	19·1	2	0·27
325	83 Cancri	6·6	...	9	12	10·26	71	46	43·4	6	0·21
326	*g* Carinæ	5·4	3	9	12	45·41	147	1	52·8	3	0·24
327	26 Hydræ	4·9	...	9	13	53·93	101	27	37·2	6	0·25
328	27 Hydræ	4·9	...	9	14	31·61	99	2	19·8	4	0·27
329	*h* Mali	5·0	5	9	16	5·40	115	26	48·9	5	0·22
330	1 Leonis κ	4·6	...	9	17	32·88	63	17	34·0	2	0·26
331	*k* Carinæ	5·4	4	9	18	0·95	151	53	8·4	4	0·25
332	30 Hydræ α, Var. 2 ...	Var	...	9	21	35·48	98	7	49·1	4	0·22
333	Argelander 196	5·0	3	9	21	44·37	95	32	20·3	3	0·27
334	23 Ursæ Majoris *h* ...	3·7	...	9	21	53·90	26	24	22·6	5	0·25
335	31 Hydræ τ^1	4·9	...	9	22	57·27	92	14	~~4·9~~ 9·8	3	0·32
336	*n* Carinæ	5·3	5	9	24	~~5·14~~ 16	154	24	5·5	5	0·27
337	ϵ Antliæ	5·5	4	9	24	12·60	125	25	6·5	4	0·20
338	ζ^1 Antliæ—1st	6·2	3	9	25	32·39	121	21	17·7	3	0·25
339	ζ^1 Antliæ—2nd	6·0	1	9	25	32·82	121	21	11·3	1	0·23
340	ζ^2 Antliæ	6·0	3	9	26	19·08	121	20	6·7	3	0·27
341	10 Leonis Minoris ...	4·7	...	9	26	44·63	53	3	39·6	3	0·29
342	Taylor 4218	5·0	1	9	27	30·88	146	29	48·7	1	0·26
343	Lacaille 3917	5·5	5	9	29	~~21·76~~ 21·2	138	27	~~51·0~~ 41·7	5	0·27
344	Taylor 4233	5·5	2	9	29	54·93	140	42	44·2	2	0·32
345	*h* Carinæ	5·0	5	9	30	54·18	148	41	9·1	5	0·23
346	*y* Velorum	5·5	3	9	33	15·59	132	38	26·9	3	0·27
347	35 Hydræ ι	4·2	...	9	33	37·58	90	35	22·7	3	0·27
348	38 Hydræ κ	4·9	...	9	34	27·41	103	46	45·8	2	0·32
349	*m* Carinæ	5·1	5	9	35	58·33	150	46	34·8	5	0·24
350	28 Ursæ Majoris	5·1	5	9	36	31·41	25	47	9·9	5	0·29

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
316	14 Ursæ Majoris τ ...	+ 5·0042	− 0·1036	+ 0·014	+ 14·232	+ 0·509	+ 0·07	1279
317	Taylor 3991	+ 2·6294	+ 0·0028	...	+ 14·346	+ 0·263	...	...
318	E Carinæ	+ 0·5213	− 0·0426	− 0·001	+ 14·464	+ 0·047	+ 0·02	Stone
319	16 Ursæ Majoris c ...	+ 4·8080	− 0·0913	− 0·002	+ 14·467	+ 0·480	+ 0·03	1288
320	e Mali	+ 2·5408	+ 0·0087	...	+ 14·473	+ 0·251	...	...
321	18 Ursæ Majoris c ...	+ 4·3553	− 0·0616	+ 0·006	+ 14·631	+ 0·433	− 0·07	1297
322	α Carinæ	+ 1·5844	− 0·0029	...	+ 14·653	+ 0·152	...	...
323	l Velorum	+ 2·3678	+ 0·0051	− 0·015	+ 14·834	+ 0·227	+ 0·08	Stone
324	k^2 Velorum	+ 2·3967	+ 0·0050	...	+ 14·837	+ 0·229	...	...
325	83 Cancri	+ 3·3665	− 0·0134	− 0·009	+ 14·913	+ 0·323	+ 0·14	1309
326	g Carinæ	+ 1·6981	− 0·0004	...	+ 14·948	+ 0·159	...	...
327	26 Hydræ	+ 2·8926	− 0·0004	− 0·003	+ 15·014	+ 0·274	− 0·02	1314
328	27 Hydræ	+ 2·9317	− 0·0012	− 0·002	+ 15·050	+ 0·277	+ 0·01	1317
329	h Mali	+ 2·6551	+ 0·0035	...	+ 15·140	+ 0·247	...	...
330	1 Leonis κ	+ 3·5101	− 0·0191	− 0·003	+ 15·224	+ 0·327	+ 0·04	1320
331	k Carinæ	+ 1·4472	− 0·0063	...	+ 15·250	+ 0·130	...	...
332	30 Hydræ α	+ 2·9505	− 0·0013	− 0·002	+ 15·452	+ 0·268	− 0·05	1330
333	Argelander 196 ...	+ 2·9896	− 0·0023	...	+ 15·460	+ 0·271	...	...
334	28 Ursæ Majoris h ...	+ 4·7861	− 0·0926	+ 0·014	+ 15·468	+ 0·438	− 0·03	1323
335	31 Hydræ τ^1 ...	+ 3·0392	− 0·0036	+ 0·008	+ 15·527	+ 0·274	+ 0·00	1334
336	n Carinæ	+ 1·3168	− 0·0105	...	+ 15·589	+ 0·114	...	...
337	e Antliæ	+ 2·4746	+ 0·0059	...	+ 15·597	+ 0·220	...	...
338	ζ^1 Antliæ—1st ...	+ 2·5639	+ 0·0053	...	+ 15·670	+ 0·227	...	...
339	ζ^1 Antliæ—2nd ...	+ 2·5640	+ 0·0053	...	+ 15·670	+ 0·227	...	...
340	ζ^2 Antliæ	+ 2·5665	+ 0·0053	...	+ 15·712	+ 0·226	...	...
341	10 Leonis Minoris ...	+ 3·0955	− 0·0295	+ 0·001	+ 15·735	+ 0·327	+ 0·01	1340
342	Taylor 4218	+ 1·8255	+ 0·0028	− 0·015	+ 15·777	+ 0·157	+ 0·01	Stone
343	Lacaille 3917 ...	+ 2·1502	+ 0·0067	...	+ 15·877	+ 0·185	...	...
344	Taylor 4233	+ 2·0770	+ 0·0063	...	+ 15·905	+ 0·178	...	...
345	h Carinæ	+ 1·7413	+ 0·0014	...	+ 15·959	+ 0·147	...	...
346	y Velorum	+ 2·3367	+ 0·0075	...	+ 16·083	+ 0·197	...	...
347	35 Hydræ ι	+ 3·0641	− 0·0041	+ 0·002	+ 16·102	+ 0·260	+ 0·06	1356
348	38 Hydræ κ	+ 2·8777	+ 0·0009	− 0·002	+ 16·144	+ 0·242	− 0·01	1362
349	m Carinæ	+ 1·6673	+ 0·0000	...	+ 16·224	+ 0·136	− 0·00	Stone
350	28 Ursæ Majoris ...	+ 4·6937	− 0·1081	+ 0·002	+ 16·251	+ 0·395	+ 0·03	1355

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
351	θ Antliæ	5·3	5	9	38	46·03	117	12	41·5	5	0·24
352	17 Leonis ϵ	3·1	...	9	38	55·47	65	39	52·8	7	0·24
353	29 Ursæ Majoris υ ...	4·0	...	9	42	18·33	30	23	18·0	5	0·26
354	30 Ursæ Majoris ϕ ...	4·4	...	9	43	47·65	35	21	58·3	5	0·30
355	39 Hydræ υ^1	4·3	...	9	45	36·52	104	16	28·6	5	0·21
356	R. P. L. 70	5·0	...	9	48	47·93	5	29	42·3	8	0·32
357	η Antliæ	6·0	5	9	53	38·31	125	18	27·0	5	0·21
358	29 Leonis π	5·0	...	9	53	45·91	81	22	14·2	17	0·25
359	21 Leonis Minoris ...	4·6	...	10	0	13·84	54	9	41·4	6	0·25
360	15 Sextantis	4·5	...	10	1	41·75	89	46	32·6	5	0·24
361	32 Leonis α (*Regulus*) ...	1·4	...	10	1	52·40	77	26	13·1	8	0·28
362	Rumker 193	8·0	5	10	3	8·73	150	37	8·0	5	0·22
363	Taylor 4522	5·3	5	10	4	18·74	141	12	47·3	5	0·28
364	41 Hydræ λ	3·9	...	10	4	38·27	101	45	6·1	5	0·28
365	Taylor 4559	5·4	5	10	8	40·34	140	37	42·2	5	0·22
366	32 Ursæ Majoris	5·7	...	10	9	9·00	24	16	59·4	4	0·28
367	33 Ursæ Majoris λ ...	3·6	...	10	9	43·77	46	28	37·3	3	0·29
368	36 Leonis ζ	4·5	5	10	9	54·07	65	58	30·2	5	0·30
369	Lacaille 4233	5·5	5	10	10	3·36	155	46	4·9	5	0·30
370	R. P. L. 72	6·0	...	10	11	39·22	5	7	50·9	3	0·81
371	q Carinæ	5·0	5	10	13	0·71	150	43	23·2	5	0·24
372	41 Leonis γ^1	2·5	...	10	13	14·63	69	32	29·1	1	0·26
373	Taylor 4616	5·0	5	10	15	1·79	144	25	0·0	5	0·26
374	Radcliffe 2485	5·0	5	10	15	18·67	23	49	1·8	5	0·33
375	Taylor 4634	5·0	5	10	16	22·44	145	25	44·7	5	0·28
376	Lacaille 4270	8·9	5	10	16	26·26	141	6	1·1	5	0·28
377	r Velorum...	5·2	5	10	17	5·72	131	2	12·1	5	0·28
378	γ Antliæ	5·5	1	10	18	19·00	119	1	53·5	1	0·32
379	30 Leonis Minoris ...	5·1	...	10	18	54·90	55	34	59·0	1	0·34
380	Lacaille 4296	5·5	1	10	19	21·12	156	17	5·4	1	0·31
381	31 Leonis Minoris β ...	4·4	...	10	20	49·44	52	40	5·1	3	0·30
382	α Antliæ...	4·5	5	10	21	34·20	120	26	49·3	5	0·29
383	36 Ursæ Majoris	4·9	...	10	22	48·43	33	23	39·1	3	0·32
384	Taylor 4694	5·0	2	10	22	51·68	147	1	1·9	2	0·31
385	s Carinæ	5·0	1	10	23	24·27	148	7	0·2	1	0·25

356.—Carrington 1450.

370.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
351	θ Antliæ	+ 2·6750	+ 0·0052	...	+ 16·366	+ 0·219	...	...
352	17 Leonis ε	+ 3·4214	− 0·0180	− 0·004	+ 16·373	+ 0·282	+ 0·01	1368
353	29 Ursæ Majoris υ ...	+ 4·3610	− 0·0821	− 0·039	+ 16·543	+ 0·353	+ 0·15	1371
354	30 Ursæ Majoris φ ...	+ 4·1269	− 0·0634	− 0·000	+ 16·616	+ 0·331	− 0·03	1375
355	39 Hydræ υ^1 ...	+ 2·8840	+ 0·0015	− 0·001	+ 16·704	+ 0·226	+ 0·02	1388
356	R. P. L. 70	+ 10·6001	− 1·5473	...	+ 16·856	+ 0·830	...	...
357	η Antliæ	+ 2·5763	+ 0·0085	...	+ 17·083	+ 0·190	...	...
358	29 Leonis π	+ 3·1785	− 0·0080	− 0·004	+ 17·088	+ 0·236	+ 0·01	1398
359	21 Leonis Minoris ...	+ 3·5542	− 0·0285	+ 0·004	+ 17·378	+ 0·252	− 0·02	1401
360	15 Sextantis	+ 3·0749	− 0·0038	− 0·003	+ 17·441	+ 0·215	− 0·02	1407
361	32 Leonis α	+ 3·2191	− 0·0102	− 0·018	+ 17·449	+ 0·225	− 0·02	1406
362	Rumker 193	+ 1·9133	+ 0·0092	...	+ 17·503	+ 0·133	...	...
363	Taylor 4522	+ 2·2678	+ 0·0122	...	+ 17·555	+ 0·152	...	...
364	41 Hydræ λ	+ 2·9381	+ 0·0015	− 0·015	+ 17·567	+ 0·199	+ 0·07	1412
365	Taylor 4559	+ 2·3116	+ 0·0131	...	+ 17·735	+ 0·150	...	...
366	32 Ursæ Majoris ...	+ 4·4503	− 0·1154	− 0·016	+ 17·754	+ 0·295	+ 0·01	1415
367	33 Ursæ Majoris λ ...	+ 3·6599	− 0·0386	− 0·017	+ 17·777	+ 0·240	+ 0·06	1421
368	36 Leonis ζ	+ 3·3477	− 0·0175	0·000	+ 17·785	+ 0·218	− 0·02	1425
369	Lacaille 4233... ...	+ 1·7013	+ 0·0035	...	+ 17·790	+ 0·107	...	...
370	R. P. L. 72	+ 9·8518	− 1·6133	− 0·096	+ 17·854	+ 0·646	− 0·04	1399
371	q Carinæ	+ 1·9990	+ 0·0115	− 0·014	+ 17·909	+ 0·123	− 0·02	Stone
372	41 Leonis γ^1... ...	+ 3·2963	− 0·0148	+ 0·021	+ 17·917	+ 0·208	+ 0·14	1432
373	Taylor 4616	+ 2·2460	+ 0·0141	− 0·013	+ 17·987	+ 0·137	+ 0·04	Stone
374	Radcliffe 2485 ...	+ 4·4081	− 0·1175	...	+ 17·998	+ 0·276	...	...
375	Taylor 4634	+ 2·2246	+ 0·0146	− 0·013	+ 18·039	+ 0·134	+ 0·05	Stone
376	Lacaille 4270 ...	+ 2·3487	+ 0·0147	...	+ 18·041	+ 0·142	...	...
377	r Velorum	+ 2·5672	+ 0·0128	− 0·006	+ 18·068	+ 0·155	− 0·03	Stone
378	γ Antliæ	+ 2·7538	+ 0·0088	− 0·004	+ 18·113	+ 0·165	− 0·10	Stone
379	30 Leonis Minoris ...	+ 3·4633	− 0·0266	− 0·006	+ 18·135	+ 0·207	+ 0·05	1445
380	Lacaille 4296 ...	+ 1·7782	+ 0·0072	...	+ 18·151	+ 0·102	...	...
381	31 Leonis Minoris β...	+ 3·4998	− 0·0297	− 0·011	+ 18·205	+ 0·206	+ 0·08	1448
382	α Antliæ	+ 2·7450	+ 0·0097	− 0·010	+ 18·233	+ 0·159	+ 0·03	Stone
383	36 Ursæ Majoris ...	+ 3·9067	− 0·0671	− 0·024	+ 18·278	+ 0·227	+ 0·04	1454
384	Taylor 4694	+ 2·2250	+ 0·0163	...	+ 18·280	+ 0·126	+ 0·03	Stone
385	s Carinæ	+ 2·1930	+ 0·0161	+ 0·003	+ 18·300	+ 0·123	+ 0·03	Stone

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
386	Brisbane 3024	5·0	2	10	23	34·38	155	4	57·7	2	0·32
387	Taylor 4700	5·9	1	10	23	50·98	119	2	24·2	1	0·39
388	δ Antliæ...	5·8	1	10	23	58·76	119	58	59·4	1	0·22
389	Radcliffe 2510	5·1	3	10	26	6·38	48	56	49·2	3	0·36
390	47 Leonis ρ	4·0	...	10	26	23·16	80	3	56·0	6	0·26
391	34 Leonis Minoris ...	5·5	...	10	26	32·23	54	22	58·4	3	0·36
392	Lacaille 4357	5·8	1	10	27	15·24	161	21	59·0	1	0·24
393	37 Ursæ Majoris	5·2	...	10	27	17·44	32	17	20·6	4	0·32
394	Taylor 4773	7·1	5	10	31	10·24	147	35	33·7	5	0·27
395	t^1 Carinæ	5·4	5	10	31	46·27	148	55	50·3	5	0·31
396	37 Leonis Minoris ...	4·8	...	10	31	51·00	57	23	23·9	4	0·33
397	p Velorum	5·1	5	10	32	10·65	137	35	32·3	5	0·25
398	ϕ^3 Hydræ	5·2	...	10	32	38·13	106	14	36·0	2	0·32
399	38 Ursæ Majoris	5·0	...	10	33	36·07	23	38	41·4	1	0·33
400	t^2 Carinæ	5·0	4	10	34	6·55	148	32	53·7	4	0·32
401	... ...	9·0	1	10	35	34·41	149	9	57·6	1	0·34
402	Taylor 4833	5·5	5	10	37	54·37	153	49	42·1	5	0·31
403	Taylor 4844	5·4	5	10	38	53·78	149	55	35·5	5	0·26
404	42 Leonis Minoris ...	5·4	...	10	39	4·63	58	40	33·1	5	0·29
405	Taylor 4873	5·5	5	10	42	2·31	146	6	51·9	5	0·28
406	53 Leonis l	5·3	...	10	42	50·60	78	48	32·5	18	0·34
407	46 Leonis Minoris ...	3·9	...	10	46	29·07	55	7	39·2	5	0·26
408	45 Ursæ Majoris ω ...	5·0	5	10	46	56·93	46	9	37·8	5	0·33
409	b^3 Hydræ	5·2	...	10	47	31·42	109	28	54·9	5	0·29
410	u Carinæ	5·0	5	10	48	32·22	148	12	19·7	5	0·32
411	54 Leonis	4·3	...	10	49	0·39	64	35	58·8	5	0·31
412	ι Antliæ	5·5	5	10	51	2·12	126	28	54·3	5	0·27
413	60 Leonis b	4·5	...	10	55	49·02	69	9	57·3	5	0·25
414	63 Leonis χ	4·7	...	10	58	43·36	82	0	15·3	14	0·32
415	R. P. L. 79	7·7	...	10	59	3·84	1	41	52·6	3	0·82
416	χ^1 Hydræ	5·2	...	10	59	27·23	116	38	6·4	5	0·26
417	χ^2 Hydræ	5·6	...	11	0	2·74	116	37	43·2	5	0·27
418	Taylor 5054	5·1	3	11	1	18·73	148	0	56·2	3	0·36
419	52 Ursæ Majoris ψ ...	3·1	...	11	2	47·98	44	50	22·3	5	0·34
420	Taylor 5068	5·0	5	11	2	49·79	117	25	10·2	5	0·34

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
386	Brisbane 3024 ...	+ 1·8968	+ 0·0113	...	+ 18·305	+ 0·105	...	...
387	Taylor 4700	+ 2·7699	+ 0·0093	...	+ 18·315	+ 0·157	...	...
388	δ Antliæ	+ 2·7585	+ 0·0097	...	+ 18·320	+ 0·156	...	...
389	Radcliffe 2510 ...	+ 3·53$\frac{1}{2}$1	− 0·0342	...	+ 18·394	+ 0·197	...	...
390	47 Leonis ρ	+ 3·1653	− 0·0080	− 0·001	+ 18·404	+ 0·176	− 0·01	1467
391	34 Leonis Minoris ...	+ 3·4521	− 0·0276	− 0·006	+ 18·409	+ 0·192	− 0·02	1465
392	Lacaille 4357 ...	+ 1·5111	− 0·0034	...	+ 18·434	+ 0·079	...	...
393	37 Ursæ Majoris ...	+ 3·9049	− 0·0703	+ 0·005	+ 18·436	+ 0·217	− 0·04	1464
394	Taylor 4773	+ 2·2761	+ 0·0187	...	+ 18·567	+ 0·118	...	...
395	t^1 Carinæ	+ 2·2390	+ 0·0187	...	+ 18·586	+ 0·115	...	...
396	37 Leonis Minoris ...	+ 3·3932	− 0·0242	− 0·001	+ 18·589	+ 0·178	− 0·03	1475
397	p Velorum	+ 2·5250	+ 0·0171	− 0·017	+ 18·600	+ 0·130	+ 0·03	Stone
398	ϕ^3 Hydræ	+ 2·9273	+ 0·0048	− 0·010	+ 18·615	+ 0·151	− 0·05	1479
399	38 Ursæ Majoris ...	+ 4·1963	− 0·1130	− 0·029	+ 18·646	+ 0·218	+ 0·08	1476
400	t^2 Carinæ	+ 2·2721	+ 0·0195	0·000	+ 18·662	+ 0·113	− 0·10	Stone
401	... ...	+ 2·2658	+ 0·0199	...	+ 18·708	+ 0·112	...	...
402	Taylor 4833	+ 2·1185	+ 0·0196	− 0·002	+ 18·781	+ 0·100	+ 0·05	Stone
403	Taylor 4844	+ 2·2721	+ 0·0211	...	+ 18·811	+ 0·107	...	...
404	42 Leonis Minoris ...	+ 3·3536	− 0·0227	− 0·004	+ 18·817	+ 0·162	+ 0·02	1490
405	Taylor 4873	+ 2·4081	+ 0·0218	...	+ 18·905	+ 0·109	...	...
406	53 Leonis l	+ 3·1597	− 0·0080	− 0·002	+ 18·928	+ 0·145	+ 0·02	1500
407	46 Leonis Minoris ...	+ 3·3660	− 0·0257	+ 0·005	+ 19·031	+ 0·147	+ 0·25	1509
408	45 Ursæ Majoris ω ...	+ 3·4747	− 0·0319	+ 0·002	+ 19·044	+ 0·151	+ 0·03	1510
409	b^3 Hydræ	+ 2·9252	+ 0·0073	− 0·004	+ 19·060	+ 0·125	+ 0·05	1507
410	ω Carinæ	+ 2·4106	+ 0·0244	0·000	+ 19·087	+ 0·100	+ 0·02	Stone
411	54 Leonis	+ 3·2658	− 0·0172	− 0·007	+ 19·100	+ 0·137	− 0·01	1515
412	ι Antliæ	+ 2·7793	+ 0·0154	+ 0·006	+ 19·153	+ 0·112	+ 0·13	Stone
413	60 Leonis b	+ 3·2129	− 0·0136	− 0·003	+ 19·273	+ 0·122	− 0·05	1529
414	63 Leonis χ	+ 3·1218	− 0·0056	− 0·026	+ 19·341	+ 0·113	+ 0·02	1535
415	R. P. L. 79	+ 14·9223	− 8·4792	...	+ 19·350	+ 0·504	...	...
416	χ^1 Hydræ	+ 2·8071	+ 0·0115	− 0·017	+ 19·358	+ 0·103	+ 0·01	1536
417	χ^2 Hydræ	+ 2·8988	+ 0·0115	+ 0·001	+ 19·372	+ 0·102	+ 0·01	1538
418	Taylor 5054	+ 2·5300	+ 0·0287	...	+ 19·401	+ 0·086	...	...
419	52 Ursæ Majoris ψ ...	+ 3·4043	− 0·0368	− 0·007	+ 19·432	+ 0·115	+ 0·04	1542
420	Taylor 5068	+ 2·9011	+ 0·0122	− 0·006	+ 19·434	+ 0·097	− 0·02	Stone

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
421	ϖ Carinæ	5·4	5	11	3	22·97	148	18	51·3	5	0·27
422	Taylor 5077	5·2	5	11	4	1·59	121	42	18·5	5	0·34
423	68 Leonis δ	2·8	...	11	7	37·11	68	48	27·5	6	0·29
424	72 Leonis	4·9	...	11	8	42·89	66	14	23·1	5	0·29
425	53 Ursæ Majoris ξ ...	4·8	...	11	11	40·20	57	47	4·2	5	0·33
426	54 Ursæ Majoris ν ...	3·8	...	11	11	53·02	56	14	24·3	5	0·34
427	55 Ursæ Majoris	4·8	...	11	12	28·83	51	8	42·0	5	0·36
428	12 Crateris δ	3·9	...	11	13	14·46	104	7	6·0	20	0·30
429	Taylor 5193	7·6	5	11	16	46·51	147	42	55·9	5	0·26
430	Taylor 5195	5·5	6	11	17	18·18	125	29	43·7	6	0·36
431	Taylor 5198	7·8	2	11	17	18·46	147	38	46·3	2	0·32
432	14 Crateris ϵ	5·0	...	11	18	26·97	100	11	23·9	6	0·34
433	Radcliffe 2679	5·0	5	11	19	3·48	33	28	52·1	5	0·32
434	1 Draconis λ	4·1	...	11	24	8·70	19	59	45·6	5	0·26
435	17 Hydræ—2nd	5·0	...	11	26	13·75	118	35	34·0	5	0·31
436	Taylor 5282	5·5	5	11	26	52·33	120	24	50·7	5	0·38
437	91 Leonis ν	4·5	...	11	30	42·09	90	8	59·9	16	0·35
438	... ...	8·0	3	11	31	50·27	150	48	35·3	3	0·39
439	24 Crateris ι	5·6	...	11	32	28·26	102	31	48·7	5	0·38
440	o Hydræ	5·5	3	11	34	9·29	124	4	5·7	3	0·35
441	63 Ursæ Majoris χ ...	3·9	...	11	39	35·92	41	32	35·7	4	0·36
442	λ Muscæ	4·7	4	11	39	51·50	156	3	9·7	4	0·39
443	Taylor 5402	5·5	3	11	40	37·20	150	30	0·8	3	0·37
444	93 Leonis	4·6	...	11	41	41·39	69	6	10·9	3	0·38
445	94 Leonis β (*Deneb*) ...	2·2	...	11	42	50·22	74	44	46·5	6	0·40
446	55 Centauri	5·5	5	11	45	2·89	134	29	40·9	5	0·36
447	Taylor 5437	5·5	3	11	46	8·52	146	18	36·4	3	0·35
448	c Hydræ	5·7	5	11	47	17·53	124	23	12·7	5	0·38
449	31 Crateris	5·5	5	11	54	36·97	108	58	47·1	5	0·34
450	67 Centauri	5·6	5	11	57	20·80	131	45	3·3	5	0·38
451	θ^2 Crucis	5·4	4	11	58	3·01	152	29	11·9	4	0·40
452	R. P. L. 89	6·3	...	11	58	36·33	3	44	12·6	5	0·59
453	η Crucis	4·5	5	12	0	31·89	153	56	0·6	5	0·35
454	2 Corvi ϵ	3·1	...	12	3	51·10	111	56	27·0	8	0·39
455	Radcliffe 2811	5·6	5	12	6	28·31	11	42	19·4	5	0·41

452.—Groombridge 1850.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
421	ϖ Carinæ	+ 2·5426	+ 0·0297	...	+ 19·445	+ 0·083	...	...
422	Taylor 5077	+ 2·8724	+ 0·0145	...	+ 19·459	+ 0·094	...	...
423	68 Leonis δ	+ 3·1897	− 0·0132	+ 0·010	+ 19·533	+ 0·098	+ 0·12	1546
424	72 Leonis	+ 3·2028	− 0·0150	− 0·004	+ 19·555	+ 0·096	− 0·00	1549
425	53 Ursæ Majoris ξ ...	+ 3·2486	− 0·0216	− 0·037	+ 19·610	+ 0·093	+ 0·57	1553
426	54 Ursæ Majoris ν ...	+ 3·2585	− 0·0227	+ 0·001	+ 19·615	+ 0·091	− 0·05	1554
427	55 Ursæ Majoris ...	+ 3·2940	− 0·0278	− 0·006	+ 19·625	+ 0·091	+ 0·07	1555
428	12 Crateris δ... ...	+ 3·0041	+ 0·0064	− 0·011	+ 19·638	+ 0·081	− 0·21	1557
429	Taylor 5193	+ 2·6755	+ 0·0341	...	+ 19·698	+ 0·065	...	...
430	Taylor 5195	+ 2·8956	+ 0·0181	...	+ 19·707	+ 0·072	...	...
431	Taylor 5198	+ 2·6814	+ 0·0342	...	+ 19·709	+ 0·065	...	...
432	14 Crateris ϵ ...	+ 3·0289	+ 0·0047	− 0·004	+ 19·725	+ 0·072	− 0·05	1563
433	Radcliffe 2679 ...	+ 3·4314	− 0·0556	...	+ 19·736	+ 0·088	...	...
434	1 Draconis λ... ...	+ 3·6444	− 0·1119	− 0·009	+ 19·809	+ 0·074	+ 0·03	1572
435	17 Hydræ—2nd ...	+ 2·9652	+ 0·0149	− 0·003	+ 19·837	+ 0·055	− 0·17	Stone
436	Taylor 5282	+ 2·9592	+ 0·0161	...	+ 19·844	+ 0·054	...	...
437	91 Leonis υ	+ 3·0718	+ 0·0003	− 0·002	+ 19·890	+ 0·049	− 0·05	1586
438	... ...	+ 2·7789	+ 0·0432	...	+ 19·903	+ 0·041	...	...
439	24 Crateris ι... ...	+ 3·0366	+ 0·0068	+ 0·004	+ 19·910	+ 0·044	+ 0·13	1591
440	o Hydræ	+ 2·9705	+ 0·0192	− 0·005	+ 19·927	+ 0·040	− 0·08	1594
441	63 Ursæ Majoris χ ...	+ 3·2064	− 0·0358	− 0·015	+ 19·975	+ 0·033	− 0·03	1600
442	λ Muscæ	+ 2·8081	+ 0·0562	...	+ 19·977	+ 0·027	...	...
443	Taylor 5402	+ 2·8727	+ 0·0466	...	+ 19·983	+ 0·027	...	...
444	93 Leonis	+ 3·1130	− 0·0108	− 0·012	+ 19·990	+ 0·027	− 0·01	1603
445	94 Leonis β	+ 3·0996	− 0·0074	− 0·036	+ 19·998	+ 0·025	+ 0·10	1605
446	55 Centauri	+ 2·9862	+ 0·0135	...	+ 20·012	+ 0·020	...	...
447	Taylor 5437	+ 2·9511	+ 0·0423	...	+ 20·018	+ 0·017	...	...
448	c Hydræ	+ 3·0215	+ 0·0208	...	+ 20·023	+ 0·016	...	...
449	31 Crateris	+ 3·0617	+ 0·0121	− 0·003	+ 20·048	+ 0·002	− 0·03	1619
450	67 Centauri	+ 3·0584	+ 0·0281	...	+ 20·053	− 0·004	...	...
451	θ^2 Crucis	+ 3·0504	+ 0·0582	+ 0·002	+ 20·053	− 0·005	+ 0·05	Stone
452	R. P. L. 89	+ 3·1965	− 0·4852	...	+ 20·054	− 0·006	...	...
453	η Crucis	+ 3·0786	+ 0·0630	...	+ 20·051	− 0·010	...	...
454	2 Corvi ϵ	+ 3·0813	+ 0·0142	− 0·006	+ 20·051	− 0·016	− 0·02	1626
455	Radcliffe 2811 ...	+ 2·8900	− 0·1252	...	+ 20·045	− 0·055	...	...

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
456	Taylor 5607—2nd ...	5·5	5	12	7	40·30	135	2	42·8	5	0·35
457	6 Comæ	5·1	...	12	9	48·51	74	25	18·8	5	0·37
458	2 Canum Venaticorum ...	6·0	...	12	10	0·70	48	39	37·3	5	0·42
459	7 Comæ	5·2	...	12	10	10·11	65	22	33·8	2	0·41
460	*l* Canum Venaticorum ...	5·1	...	12	10	22·15	56	15	23·4	3	0·42
461	ζ Crucis	5·0	2	12	11	50·28	153	19	30·3	2	0·36
462	15 Virginis η	4·0	...	12	13	39·85	89	59	17·8	4	0·36
463	5 Corvi ζ	5·5	...	12	14	14·70	111	32	13·5	5	0·38
464	R.P.L. 93	6·7	...	12	14	19·31	1	37	26·4	1	0·86
465	11 Comæ	4·9	...	12	14	33·08	71	31	57·8	1	0·37
466	12 Comæ	4·8	...	12	16	22·33	63	28	36·5	2	0·34
467	6 Corvi	5·9	...	12	17	0·31	114	9	47·0	1	0·37
468	13 Comæ	5·1	...	12	18	11·08	63	13	27·8	3	0·39
469	14 Comæ	5·1	...	12	20	17·01	62	3	19·0	4	0·40
470	15 Comæ γ	4·7	...	12	20	51·31	61	3	10·1	3	0·36
471	16 Comæ	5·1	...	12	20	53·35	62	29	53·6	2	0·38
472	σ Centauri	4·5	1	12	21	26·71	139	33	14·9	1	0·36
473	*u* Centauri	5·2	4	12	21	53·43	128	21	56·3	4	0·40
474	8 Corvi η	4·4	...	12	25	46·90	105	31	11·5	5	0·39
475	8 Canum Venaticorum β...	4·3	...	12	27	56·70	47	58	44·9	5	0·34
476	9 Corvi β	2·8	...	12	27	58·91	112	43	16·3	2	0·44
477	5 Draconis κ	3·8	...	12	28	16·55	19	32	18·0	3	0·38
478	23 Comæ	4·9	...	12	28	46·57	66	41	55·0	3	0·40
479	24 Comæ—2nd	5·0	...	12	29	0·48	70	57	2·7	5	0·40
480	τ Centauri	5·3	1	12	31	2·10	137	52	9·5	1	0·41
481	*d* Hydræ	5·5	...	12	31	14·33	116	27	50·1	4	0·38
482	*l* Centauri	5·2	5	12	33	16·56	129	18	55·4	5	0·39
483	30 Virginis ρ	5·1	...	12	35	42·50	79	5	28·9	5	0·39
484	Taylor 5839	5·6	3	12	35	50·77	138	8	32·8	3	0·40
485	ι Crucis	5·5	3	12	38	28·31	150	18	40·4	3	0·36
486	27 Comæ	5·3	...	12	40	32·99	72	45	20·2	4	0·37
487	Taylor 5906	5·8	5	12	45	14·20	129	0	57·4	5	0·39
488	Taylor 5918	5·6	4	12	46	13·12	138	16	44·0	4	0·39
489	κ Crucis	5·5	3	12	46	32·41	149	42	46·8	3	0·35
490	*n* Centauri	5·4	3	12	46	40·95	129	30	53·6	3	0·40

464.—Groombridge 1884.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
456	Taylor 5607—2nd ...	+ 3·1171	+ 0·0331	...	+ 20·043	− 0·024	...	...
457	6 Comæ	+ 3·0563	− 0·0058	− 0·007	+ 20·035	− 0·028	+ 0·01	1639
458	2 Canum Venat. ...	+ 3·0212	− 0·0140	+ 0·003	+ 20·035	− 0·027	+ 0·03	1640
459	7 Comæ	+ 3·0451	− 0·0110	− 0·004	+ 20·035	− 0·028	0·00	1641
460	*l* Canum Venat. ...	+ 3·0319	− 0·0170	...	+ 20·034	− 0·028	...	...
461	ζ Crucis	+ 3·2096	+ 0·0670	...	+ 20·028	− 0·033	...	...
462	15 Virginis η ...	+ 3·0723	+ 0·0027	− 0·006	+ 20·018	− 0·035	+ 0·02	1647
463	5 Corvi ζ	+ 3·1050	+ 0·0147	− 0·009	+ 20·016	− 0·037	+ 0·04	1653
464	R. P. L. 93	+ 0·1274	+ 0·9684	− 0·090	+ 20·015	− 0·010	− 0·08	1672
465	11 Comæ	+ 3·0489	− 0·0071	− 0·010	+ 20·011	− 0·037	− 0·09	1654
466	12 Comæ	+ 3·0246	− 0·0117	− 0·002	+ 20·003	− 0·040	− 0·01	1658
467	6 Corvi	+ 3·1167	+ 0·0169	− 0·003	+ 19·999	− 0·042	+ 0·02	1659
468	13 Comæ	+ 3·0188	− 0·0116	− 0·002	+ 19·991	− 0·044	+ 0·02	1661
469	14 Comæ	+ 3·0095	− 0·0121	− 0·003	+ 19·976	− 0·047	+ 0·01	1665
470	15 Comæ γ	+ 3·0052	− 0·0127	− 0·003	+ 19·971	− 0·049	+ 0·09	1666
471	16 Comæ	+ 3·0089	− 0·0121	− 0·002	+ 19·971	− 0·049	+ 0·00	1667
472	σ Centauri	+ 3·2188	+ 0·0412	...	+ 19·966	− 0·052	...	...
473	*u* Centauri	+ 3·1731	+ 0·0282	...	+ 19·962	− 0·053	...	...
474	8 Corvi η	+ 3·1139	+ 0·0117	− 0·033	+ 19·927	− 0·060	+ 0·05	1681
475	8 Canum Venat. β ...	+ 2·9258	− 0·0207	− 0·065	+ 19·905	− 0·061	− 0·29	1686
476	9 Corvi β	+ 3·1404	+ 0·0164	− 0·003	+ 19·905	− 0·064	+ 0·05	1685
477	5 Draconis κ	+ 2·6088	− 0·0547	− 0·016	+ 19·902	− 0·056	+ 0·00	1689
478	23 Comæ	+ 3·0000	− 0·0087	...	+ 19·896	− 0·063	...	...
479	24 Comæ—2nd ...	+ 3·0140	− 0·0064	− 0·001	+ 19·894	− 0·064	− 0·03	1688
480	τ Centauri	+ 3·2719	+ 0·0404	...	+ 19·871	− 0·072	...	...
481	*d* Hydræ	+ 3·1627	+ 0·0193	...	+ 19·869	− 0·071	...	...
482	*l* Centauri	+ 3·2307	+ 0·0303	...	+ 19·844	− 0·077	...	...
483	30 Virginis ρ ...	+ 3·0323	− 0·0016	+ 0·003	+ 19·811	− 0·077	+ 0·09	1701
484	Taylor 5839	+ 3·3046	+ 0·0417	...	+ 19·809	− 0·084	...	...
485	ι Crucis	+ 3·4641	+ 0·0685	...	+ 19·772	− 0·092	...	...
486	27 Comæ	+ 2·9992	− 0·0045	...	+ 19·741	− 0·085	...	...
487	Taylor 5906	+ 3·2846	+ 0·0312	− 0·007	+ 19·665	− 0·102	− 0·03	Stone
488	Taylor 5918	+ 3·3726	+ 0·0435	...	+ 19·648	− 0·106	...	...
489	κ Crucis	+ 3·5339	+ 0·0693	...	+ 19·642	− 0·112	...	...
490	*n* Centauri	+ 3·2953	+ 0·0320	− 0·002	+ 19·640	− 0·105	+ 0·08	...

Mean Positions of Stars for 1878, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
491	35 Comæ	5·1	...	12	47	17·46	68	5	31·0	3	0·43
492	*o* Centauri—1st	5·1	2	12	47	26·00	146	30	52·4	2	0·40
493	R. P. L. 98	6·6	...	12	48	6·68	5	55	4·4	2	0·36
494	R. P. L. 99	5·6	...	12	48	14·78	5	55	26·2	3	0·75
495	Taylor 5944	5·6	2	12	48	46·50	146	10	26·6	2	0·43
496	12 Canum Venaticorum *a*	3·0	...	12	50	19·02	51	1	20·0	2	0·44
497	36 Comæ	5·0	...	12	52	53·31	71	55	57·2	5	0·38
498	37 Comæ	5·1	...	12	54	26·21	58	33	22·6	4	0·38
499	78 Ursæ Majoris	4·8	...	12	55	29·20	32	58	31·1	1	0·37
500	ξ^1 Centauri	5·7	2	12	56	30·12	138	52	14·2	2	0·39
501	Taylor 6013	5·5	5	12	59	12·75	137	48	30·1	5	0·41
502	ξ^2 Centauri	5·0	1	12	59	47·72	139	15	6·3	1	0·39
503	14 Canum Venaticorum ...	5·3	...	13	0	2·07	53	32	50·8	5	0·41
504	θ Muscæ	5·9	1	13	0	15·69	154	39	8·2	1	0·39
505	39 Comæ	6·1	...	13	0	24·33	68	11	29·2	1	0·39
506	41 Comæ	4·9	...	13	1	19·48	61	43	11·9	2	0·40
507	49 Virginis *g*	5·9	...	13	1	30·45	100	5	13·8	1	0·35
508	B. F. 1805...	5·5	1	13	2	10·92	98	19	48·2	1	0·37
509	45 Hydræ ψ	5·1	...	13	2	29·10	112	27	53·6	4	0·43
510	51 Virginis θ	4·4	...	13	3	38·05	94	53	12·3	5	0·40
511	Taylor 6056	5·0	1	13	4	25·22	132	43	5·3	1	0·41
512	*m* Centauri	5·5	2	13	5	15·01	127	9	19·3	2	0·40
513	43 Comæ β	4·4	...	13	6	10·92	61	30	10·1	3	0·49
514	Taylor 6077	5·5	1	13	6	42·67	148	27	3·4	1	0·46
515	*m* Canum Venaticorum ...	5·0	...	13	8	10·70	49	12	0·9	3	0·40
516	57 Virginis	5·4	...	13	9	22·95	109	17	35·6	2	0·41
517	61 Virginis	4·8	...	13	12	1·28	107	37	53·7	3	0·41
518	20 Canum Venaticorum...	4·7	...	13	12	4·37	48	47	3·8	1	0·39
519	21 Canum Venaticorum...	5·2	...	13	13	3·88	39	40	31·1	4	0·39
520	67 Virginis *a* (*Spica*) ...	1·2	...	13	18	45·93	100	31	25·8	4	0·44
521	68 Virginis *i*	5·5	...	13	20	16·53	102	4	19·3	5	0·42
522	69 Virginis	4·8	...	13	20	56·75	105	20	24·0	5	0·41
523	*d* Centauri...	4·9	5	13	23	58·47	128	46	35·4	5	0·39
524	Taylor 6235	8·3	3	13	24	7·53	70	18	39·4	3	0·39
525	79 Virginis ζ	3·5	...	13	28	28·70	89	58	15·5	4	0·41

495.—Groombridge 1940.

517.—Comparison star for Encke's comet in 1878.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
491	35 Comæ	+ 2·9619	− 0·0129	− 0·007	+ 19·629	− 0·096	+ 0·02	1719
492	o Centauri—1st ...	+ 3·4875	+ 0·0604	...	+ 19·627	− 0·112	...	...
493	R. P. L. 98	+ 0·3844	+ 0·2158	− 0·017	+ 19·614	− 0·020	− 0·02	1730
494	R. P. L. 99	+ 0·3799	+ 0·2177	− 0·020	+ 19·611	− 0·024	− 0·02	1731
495	Taylor 5944	+ 3·4936	+ 0·0598	...	+ 19·603	− 0·115	...	...
496	12 Canum Venat. a ...	+ 2·8366	− 0·0152	− 0·022	+ 19·573	− 0·098	− 0·07	1725
497	36 Comæ	+ 2·9725	− 0·0041	− 0·003	+ 19·523	− 0·107	− 0·05	1728
498	37 Comæ	+ 2·8799	− 0·0106	− 0·003	+ 19·491	− 0·106	+ 0·00	1733
499	78 Ursæ Majoris ...	+ 2·5782	− 0·0252	+ 0·007	+ 19·469	− 0·098	+ 0·02	1736
500	ξ^1 Centauri	+ 3·4459	+ 0·0460	− 0·002	+ 19·448	− 0·130	+ 0·06	Main
501	Taylor 6013	+ 3·4490	+ 0·0445	...	+ 19·389	− 0·136	...	...
502	ξ^2 Centauri	+ 3·4725	+ 0·0471	− 0·016	+ 19·376	− 0·138	+ 0·02	Stone
503	14 Canum Venat. ...	+ 2·8165	− 0·0125	− 0·008	+ 19·371	− 0·114	− 0·02	1739
504	θ Muscæ	+ 3·8053	+ 0·0947	...	+ 19·363	− 0·152	...	...
505	39 Comæ	+ 2·9328	− 0·0052	− 0·007	+ 19·362	− 0·119	+ 0·05	1740
506	41 Comæ	+ 2·8821	− 0·0083	+ 0·000	+ 19·339	− 0·119	+ 0·08	1743
507	49 Virginis g ...	+ 3·1353	+ 0·0105	− 0·000	+ 19·336	− 0·129	− 0·01	1742
508	B. F. 1805	+ 3·1247	+ 0·0096	...	+ 19·321	− 0·130	...	...
509	45 Hydræ ψ	+ 3·2211	+ 0·0182	− 0·004	+ 19·313	− 0·134	+ 0·04	1744
510	51 Virginis θ ...	+ 3·1036	+ 0·0078	− 0·004	+ 19·286	− 0·132	+ 0·04	1747
511	Taylor 6056	+ 3·4147	+ 0·0376	− 0·020	+ 19·267	− 0·145	− 0·04	Stone
512	m Centauri	+ 3·3568	+ 0·0310	...	+ 19·247	− 0·145	...	...
513	43 Comæ β	+ 2·8656	− 0·0079	− 0·061	+ 19·224	− 0·127	− 0·90	1755
514	Taylor 6077	+ 3·6971	+ 0·0706	...	+ 19·211	− 0·162	...	...
515	m Canum Venat. ...	+ 2·7340	− 0·0137	...	+ 19·174	− 0·125	...	...
516	57 Virginis	+ 3·2118	+ 0·0163	+ 0·020	+ 19·148	− 0·147	+ 0·10	1758
517	61 Virginis	+ 3·2036	+ 0·0154	− 0·076	+ 19·072	− 0·152	+ 1·04	1763
518	20 Canum Venat. ...	+ 2·7100	− 0·0132	− 0·013	+ 19·071	− 0·130	− 0·02	1765
519	21 Canum Venat. ...	+ 2·5671	− 0·0170	− 0·005	+ 19·044	− 0·125	+ 0·00	1767
520	67 Virginis α	+ 3·1559	+ 0·0116	− 0·004	+ 18·381	− 0·163	+ 0·02	1774
521	68 Virginis i	+ 3·1704	+ 0·0125	− 0·012	+ 18·836	− 0·166	+ 0·02	1775
522	69 Virginis	+ 3·1991	+ 0·0143	− 0·011	+ 18·816	− 0·169	− 0·03	1778
523	d Centauri	+ 3·4570	+ 0·0340	...	+ 18·724	− 0·188	..	...
524	Taylor 6235	+ 2·9005	− 0·0025	...	+ 18·718	− 0·160	...	..
525	79 Virginis ζ	+ 3·0720	+ 0·0064	− 0·021	+ 18·579	− 0·176	− 0·06	1789

Mean Positions of Stars for 1878, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	′	″		
526	24 Canum Venaticorum ...	4·8	...	13	29	27·96	40	21	33·7	5	0·39
527	25 Canum Venaticorum ...	5·0	...	13	32	2·57	53	5	1·9	5	0·42
528	Lacaille 5632	5·8	5	13	33	56·56	143	56	26·4	5	0·42
529	83 Ursæ Majoris	4·8	...	13	36	6·64	34	41	58·7	5	0·39
530	1 Centauri *i*	5·1	5	13	38	45·27	122	25	33·0	5	0·40
531	Taylor 6376	5·1	2	13	38	56·54	140	49	9·0	5	0·48
532	4 Bootis τ	4·5	...	13	41	27·81	71	56	3·8	5	0·40
533	2 Centauri *g*	5·2	5	13	42	22·80	123	50	26·2	5	0·41
534	5 Bootis υ	4·1	...	13	43	35·40	73	35	45·7	3	0·49
535	Taylor 6424—2nd ...	5·5	1	13	44	13·74	142	12	18·4	2	0·43
536	3 Centauri *k*	4·6	2	13	44	47·27	122	23	17·2	2	0·43
537	4 Centauri *h*	5·3	3	13	46	11·44	121	19	27·5	3	0·41
538	Rumker 360	7·9	2	13	46	12·29	150	43	56·1	2	0·38
539	10 Draconis *i*	4·7	...	13	47	52·02	24	40	23·1	3	0·41
540	8 Bootis η	2·9	...	13	48	52·52	70	59	24·3	6	0·45
541	G. Z. C. XIII. 3120 ...	7·7	1	13	50	57·43	149	58	17·5	1	0·51
542	9 Bootis	5·1	...	13	50	59·86	61	54	34·7	5	0·42
543	υ^1 Centauri	5·3	4	13	51	9·15	134	12	25·8	5	0·43
544	υ^2 Centauri	5·2	5	13	54	7·33	135	0	41·0	5	0·41
545	93 Virginis τ	4·4	...	13	55	26·29	87	51	50·1	3	0·48
546	*h* Hydræ	5·5	5	13	55	26·56	116	50	22·0	5	0·40
547	χ Centauri	5·2	5	13	58	36·25	130	35	38·9	5	0·42
548	49 Hydræ π	3·5	...	13	59	25·54	116	5	37·4	5	0·40
549	11 Draconis *a*	3·6	...	14	1	5·09	25	2	24·2	5	0·45
550	Taylor 6600	5·8	3	14	4	10·87	105	43	26·9	5	0·44
551	50 Hydræ	5·2	...	14	5	46·71	116	41	9·6	5	0·44
552	Taylor 6616	5·5	1	14	6	28·15	146	30	48·5	1	0·52
553	17 Bootis κ—2nd	4·4	...	14	9	6·53	37	38	18·7	4	0·47
554	4 Ursæ Minoris	4·9	...	14	9	21·44	11	52	44·2	2	0·51
555	Radcliffe 3170	5·0	1	14	9	48·18	19	59	39·3	2	0·53
556	16 Bootis *a* (*Arcturus*) ...	0·0	...	14	10	5·86	70	10	54·6	7	0·45
557	19 Bootis λ	4·3	...	14	11	44·36	43	21	2·3	2	0·48
558	ψ Centauri	5·0	4	14	13	8·53	127	19	22·3	4	0·48
559	*a* Centauri	5·1	5	14	15	31·61	128	57	12·3	5	0·46
560	τ^1 Lupi	5·2	4	14	18	18·80	134	40	5·8	4	0·46

44·70

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
526	24 Canum Venat. ...	+ 2·4736	− 0·0131	− 0·013	+ 18·546	− 0·145	− 0·01	1791
527	25 Canum Venat. ...	+ 2·6796	− 0·0086	...	+ 18·458	− 0·161	...	...
528	Lacaille 5632 ...	+ 3·8040	+ 0·0619	...	+ 18·393	− 0·229	...	...
529	83 Ursæ Majoris ...	+ 2·2861	+ 0·0278	− 0·006	+ 18·315	− 0·216	+ 0·00	1802
530	1 Centauri *i*	+ 3·4269	+ 0·0278	− 0·033	+ 18·222	− 0·216	+ 0·13	Stone
531	Taylor 6376	+ 3·7586	+ 0·0546	...	+ 18·214	− 0·237	...	...
532	4 Bootis τ	+ 2·8855	− 0·0007	− 0·035	+ 18·120	− 0·188	− 0·04	1810
533	2 Centauri *g*	+ 3·4595	+ 0·0295	− 0·003	+ 18·086	− 0·227	+ 0·03	Stone
534	5 Bootis *v*	+ 2·9003	0·0000	− 0·009	+ 18·040	− 0·193	− 0·04	1813
535	Taylor 6424—2nd. ...	+ 3·8294	+ 0·0583	...	+ 18·016	− 0·253	...	...
536	3 Centauri *k*	+ 3·4464	+ 0·0280	− 0·002	+ 17·994	− 0·230	+ 0·10	Stone
537	4 Centauri *h*	+ 3·4359	+ 0·0270	− 0·002	+ 17·940	− 0·232	+ 0·06	Stone
538	Rumker 360	+ 4·1386	+ 0·0873	...	+ 17·940	− 0·277	...	...
539	10 Draconis *i* ...	+ 1·7525	− 0·0004	− 0·002	+ 17·873	− 0·124	+ 0·01	1823
540	8 Bootis η	+ 2·8616	− 0·0006	− 0·005	+ 17·833	− 0·199	+ 0·34	1821
541	G. Z. C. XIII. 3120 ...	+ 4·1488	+ 0·0844	...	+ 17·749	− 0·289	...	...
542	9 Bootis	+ 2·7400	− 0·0037	+ 0·001	+ 17·747	− 0·194	+ 0·06	1826
543	v^1 Centauri	+ 3·6785	+ 0·0428	...	+ 17·741	− 0·258	...	...
544	v^2 Centauri	+ 3·7110	+ 0·0442	− 0·006	+ 17·619	− 0·266	+ 0·04	Stone
545	93 Virginis τ ...	+ 3·0482	+ 0·0064	− 0·001	+ 17·563	− 0·222	+ 0·03	1829
546	*h* Hydræ	+ 3·3988	+ 0·0233	...	+ 17·564	− 0·247	...	...
547	χ Centauri	+ 3·6390	+ 0·0377	− 0·011	+ 17·429	− 0·269	− 0·02	Stone
548	49 Hydræ π	+ 3·3982	+ 0·0227	+ 0·002	+ 17·393	− 0·253	+ 0·17	1832
549	11 Draconis α ...	+ 1·6297	+ 0·0048	− 0·009	+ 17·320	− 0·127	− 0·02	1836
550	Taylor 6600	+ 3·2664	+ 0·0176	...	+ 17·181	− 0·253	...	...
551	50 Hydræ	+ 3·4228	+ 0·0232	− 0·002	+ 17·110	− 0·267	+ 0·05	1837
552	Taylor 6616	+ 4·1313	+ 0·0719	...	+ 17·077	− 0·320	...	...
553	17 Bootis κ—2nd ...	+ 2·1465	− 0·0049	+ 0·005	+ 16·956	− 0·174	+ 0·04	1849
554	4 Ursæ Minoris ...	− 0·3276	+ 0·1554	− 0·011	+ 16·942	+ 0·019	− 0·02	1859
555	Radcliffe 3170 ...	+ 1·1006	+ 0·0283	...	+ 16·921	− 0·093	...	...
556	16 Bootis α	+ 2·8131	+ 0·0004	− 0·080	+ 16·908	− 0·227	+ 1·98	1847
557	19 Bootis λ	+ 2·3022	− 0·0056	− 0·019	+ 16·829	− 0·194	− 0·15	1852
558	ψ Centauri	+ 3·6316	+ 0·0336	...	+ 16·765	− 0·297	...	...
559	*a* Centauri	+ 3·6749	+ 0·0356	...	+ 16·648	− 0·306	...	...
560	τ^1 Lupi ...	+ 3·8223	+ 0·0438	− 0·004	+ 16·512	− 0·323	+ 0·09	Stone

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
561	τ^2 Lupi	5·0	2	14	18	20·54	134	49	33·7	4	0·50
562	52 Hydræ	5·0	...	14	21	1·90	118	56	31·6	2	0·46
563	23 Bootis θ	4·2	...	14	21	2·45	37	35	5·8	1	0·53
564	... ...	9·4	5	14	21	40·05	93	50	22·5	5	0·43
565	105 Virginis ϕ	4·9	...	14	21	54·95	91	40	48·2	3	0·49
566	σ Lupi	5·3	5	14	24	24·40	139	54	52·5	5	0·46
567	Taylor 6786	7·5	1	14	26	24·47	146	1	31·3	1	0·42
568	25 Bootis ρ	3·6	...	14	26	34·32	59	5	31·6	9	0·46
569	27 Bootis γ	3·1	...	14	27	9·98	51	9	26·4	4	0·47
570	5 Ursæ Minoris	4·3	...	14	27	48·04	13	45	40·5	3	0·53
571	28 Bootis σ	4·5	...	14	29	22·23	59	43	26·5	5	0·49
572	ρ Lupi	5·0	2	14	29	41·32	138	53	33·5	2	0·47
573	l Centauri...	5·3	5	14	34	23·08	127	16	7·2	5	0·45
574	29 Bootis π	4·6	...	14	34	59·66	73	3	28·9	5	0·48
575	30 Bootis ζ	3·8	...	14	35	19·50	75	44	50·9	5	0·48
576	31 Bootis	5·0	...	14	35	39·26	81	18	55·1	2	0·56
577	c^1 Centauri	5·0	3	14	36	11·90	124	38	48·2	3	0·49
578	c^2 Centauri	6·0	1	14	37	30·63	124	40	24·7	1	0·53
579	34 Bootis	4·9	...	14	38	3·59	62	57	9·5	3	0·47
580	35 Bootis o	4·8	...	14	39	32·80	72	31	4·8	2	0·51
581	36 Bootis ϵ (*Mirac*) ...	2·6	...	14	39	39·59	62	24	38·0	4	0·44
582	... ...	5·0	1	14	40	17·01	116	6	39·7	1	0·47
583	56 Hydræ	5·7	...	14	40	37·31	115	34	29·9	1	0·45
584	7 Libræ μ	5·4	...	14	42	37·91	103	38	21·0	3	0·48
585	58 Hydræ	5·0	...	14	43	7·52	117	27	3·2	1	0·52
586	o Lupi	5·3	3	14	43	40·86	133	4	7·1	3	0·46
587	9 Libræ α^2	3·0	...	14	44	7·85	105	32	0·5	7	0·46
588	37 Bootis ξ^2—2nd ...	4·6	...	14	45	45·81	70	23	29·4	4	0·50
589	Taylor 6953	5·7	4	14	48	15·72	123	21	32·6	5	0·48
590	15 Libræ ξ^2	5·8	...	14	50	8·92	100	54	57·4	4	0·48
591	16 Libræ	4·5	...	14	50	48·87	93	50	55·0	4	0·48
592	Radcliffe 3305	5·3	4	14	55	38·88	23	34	51·3	4	0·48
593	110 Virginis	4·6	...	14	56	44·19	87	25	41·9	3	0·44
594	π Lupi	5·0	3	14	56	49·17	136	34	19·2	5	0·50
595	20 Libræ	3·2	...	14	56	55·89	114	48	3·6	5	0·48

564.—Comparison star for Camilla in 1878.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
561	τ^2 Lupi	+ 3·8265	+ 0·0442	...	+ 16·510	− 0·323	...	...
562	52 Hydræ	+ 3·4991	+ 0·0251	− 0·004	+ 16·376	− 0·301	+ 0·04	1862
563	23 Bootis θ	+ 2·0695	− 0·0026	− 0·028	+ 16·376	− 0·181	+ 0·40	1867
564	... ...	+ 3·1243	+ 0·0098	...	+ 16·344	− 0·271	...	...
565	105 Virginis φ ...	+ 3·0951	+ 0·0087	− 0·010	+ 16·331	− 0·269	+ 0·00	1865
566	σ Lupi	+ 4·0082	+ 0·0538	...	+ 16·203	− 0·351	...	...
567	Taylor 6786	+ 4·2554	+ 0·0706	...	+ 16·101	− 0·376	...	...
568	25 Bootis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·091	− 0·233	− 0·13	1869
569	27 Bootis γ	+ 2·4275	− 0·0027	− 0·011	+ 16·059	− 0·219	− 0·15	1871
570	5 Ursæ Minoris ...	− 0·2092	+ 0·1207	+ 0·001	+ 16·026	+ 0·012	− 0·03	1873
571	28 Bootis σ	+ 2·5989	− 0·0012	+ 0·014	+ 15·944	− 0·287	− 0·13	1872
572	ρ Lupi	+ 4·0032	+ 0·0514	...	+ 15·926	− 0·361	...	...
573	l Centauri	+ 3·7069	+ 0·0330	...	+ 15·674	− 0·344	...	...
574	29 Bootis π	+ 2·8174	+ 0·0024	− 0·001	+ 15·640	− 0·264	+ 0·01	1875
575	30 Bootis ζ	+ 2·8593	+ 0·0033	+ 0·002	+ 15·622	− 0·268	+ 0·01	1876
576	31 Bootis	+ 2·9440	+ 0·0051	− 0·000	+ 15·605	− 0·277	+ 0·01	1877
577	c^1 Centauri	+ 3·6543	+ 0·0302	− 0·006	+ 15·575	− 0·342	+ 0·18	Stone
578	c^2 Centauri	+ 3·6590	+ 0·0300	...	+ 15·502	− 0·345	...	...
579	34 Bootis	+ 2·6379	0·0000	− 0·001	+ 15·471	− 0·252	+ 0·01	1883
580	35 Bootis o	+ 2·8023	+ 0·0024	− 0·005	+ 15·388	− 0·269	+ 0·05	1888
581	36 Bootis ε	+ 2·6240	− 0·0001	− 0·004	+ 15·381	− 0·252	− 0·00	1890
582	... ...	+ 3·4941	+ 0·0224	...	+ 15·346	− 0·335	...	...
583	56 Hydræ	+ 3·4849	+ 0·0220	− 0·003	+ 15·328	− 0·334	+ 0·03	1886
584	7 Libræ μ	+ 3·2836	+ 0·0145	− 0·007	+ 15·213	− 0·319	+ 0·02	1891
585	58 Hydræ	+ 3·5259	+ 0·0233	− 0·020	+ 15·186	− 0·342	+ 0·06	1892
586	o Lupi	+ 3·8908	+ 0·0402	...	+ 15·154	− 0·378	...	...
587	9 Libræ α^2	+ 3·3162	+ 0·0154	− 0·009	+ 15·127	− 0·324	+ 0·07	1894
588	37 Bootis ξ^2—2nd ...	+ 2·7571	+ 0·0021	+ 0·009	+ 15·034	− 0·272	+ 0·10	1898
589	Taylor 6953	+ 3·6619	+ 0·0282	...	+ 14·888	− 0·363	...	...
590	15 Libræ ξ^2	+ 3·2166	+ 0·0130	− 0·002	+ 14·776	− 0·326	− 0·01	1903
591	16 Libræ	+ 3·1333	+ 0·0099	− 0·006	+ 14·738	− 0·316	+ 0·16	1905
592	Radcliffe 3305 ...	+ 0·9480	+ 0·0282	...	+ 14·447	− 0·102	...	...
593	110 Virginis	+ 3·0304	+ 0·0075	− 0·005	+ 14·381	− 0·314	− 0·01	1915
594	π Lupi	+ 4·0570	+ 0·0451	− 0·009	+ 14·375	− 0·418	+ 0·04	Stone
595	20 Libræ	+ 3·5032	+ 0·0207	...	+ 14·369	− 0·362	+ 0·06	Stone

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
596	Radcliffe 3325	5·2	1	14	58	41·12	8	59	17·7	1	0·52
597	43 Bootis ψ	4·5	...	14	59	13·12	62	34	32·4	5	0·43
598	44 Bootis i	4·9	...	14	59	45·93	41	52	6·7	1	0·44
599	Taylor 7053	6·1	2	15	2	11·02	144	52	46·8	2	0·52
600	κ Lupi—1st.	4·9	2	15	3	27·56	138	16	19·1	2	0·49
601	R. P. L. 111.	7·0	...	15	4	7·51	5	34	37·8	1	0·53
602	ϵ Lupi	5·5	3	15	4	38·02	134	2	16·9	3	0·47
603	β Circini	5·3	1	15	7	58·73	148	20	37·3	1	0·53
604	48 Bootis χ	5·3	...	15	9	23·31	60	22	54·0	2	0·45
605	μ Lupi—1st.	4·8	1	15	10	3·25	137	25	26·7	1	0·52
606	2 Lupi δ	4·7	...	15	10	24·54	119	41	55·0	2	0·45
607	27 Libræ β	2·7	...	15	10	26·52	98	55	52·5	12	0·47
608	49 Bootis δ—1st.	3·5	...	15	10	34·86	56	13	44·3	2	0·48
609	S Libræ, Var. 5	9·8	3	15	14	23·80	109	56	48·0	3	0·53
610	ϕ^2 Lupi	5·0	2	15	15	21·59	126	25	9·6	3	0·49
611	11 Ursæ Minoris	5·1	...	15	17	12·14	17	43	59·9	2	0·53
612	R. P. L. 114	6·9	...	15	17	12·34	2	18	4·0	6	0·33
613	51 Bootis μ	4·4	...	15	19	52·99	52	11	37·7	3	0·47
614	13 Ursæ Minoris γ ...	3·2	...	15	20	55·79	17	43	53·4	1	0·53
615	3 Coronæ Borealis β ...	3·8	...	15	22	47·98	60	28	21·2	5	0·46
616	ϵ Trianguli Australis ...	5·0	5	15	25	34·82	155	54	16·0	5	0·51
617	B. H. 952	5·7	3	15	27	51·32	98	46	17·1	3	0·49
618	4 Coronæ Borealis θ ...	4·3	...	15	28	0·78	58	13	41·2	4	0·49
619	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	31·42	62	52	23·8	9	0·51
620	40 Libræ	3·9	...	15	31	9·85	119	22	29·3	3	0·49
621	3 Lupi ψ^1	5·9	1	15	32	1·31	124	0	42·3	1	0·52
622	g Lupi	5·8	1	15	32	48·77	134	15	21·7	1	0·53
623	h Lupi	5·6	...	15	34	42·76	127	1	55·1	1	0·52
624	7 Coronæ Borealis ζ—2nd.	5·2	...	15	34	47·27	52	58	0·2	2	0·48
625	15 Ursæ Minoris θ ...	5·3	...	15	35	3·95	12	14	41·5	2	0·53
626	21 Serpentis ι	4·6	...	15	36	6·58	69	56	8·5	3	0·49
627	44 Libræ η	5·5	...	15	37	12·84	105	16	56·1	1	0·44
628	8 Coronæ Borealis γ ...	4·2	...	15	37	37·27	63	18	59·2	2	0·47
629	24 Serpentis α	2·7	...	15	38	15·54	83	11	20·2	12	0·52
630	27 Serpentis λ	4·4	...	15	40	31·42	82	15	46·7	2	0·49

601.—Groombridge 2213.

612.—Groombridge 2283.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
596	Radcliffe 3325 ...	− ~~4·5957~~ ~~2·8766~~	+ ~~0·7034~~ ~~0·3063~~	...	+ 14·261	+ ~~0·465~~ ~~0·283~~	...	...
597	43 Bootis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·229	− 0·271	+ 0·01	1923
598	44 Bootis *i*	+ 2·0185	+ 0·0015	− 0·043	+ 14·196	− 0·214	− 0·02	1923
599	Taylor 7053	+ 4·4291	+ 0·0638	...	+ 14·045	− 0·467	...	...
600	κ Lupi—1st	+ 4·1482	+ 0·0476	− 0·020	+ 13·965	− 0·440	+ 0·06	Stone
601	R.P.L. 111	− 6·7815	+ 1·1625	...	+ 13·923	+ 0·706	...	...
602	*e* Lupi	+ 4·0047	+ 0·0402	...	+ 13·891	− 0·428	...	...
603	β Circini	+ 4·6579	+ 0·0748	...	+ 13·678	− 0·502	...	...
604	48 Bootis χ	+ 2·5132	+ 0·0013	− 0·008	+ 13·588	− 0·275	− 0·03	1935
605	μ Lupi—1st	+ 4·1453	+ 0·0452	− 0·015	+ 13·545	− 0·451	+ 0·08	Stone
606	2 Lupi δ	+ 3·6354	+ 0·0239	...	+ 13·522	− 0·397	...	...
607	27 Libræ β	+ 3·2275	+ 0·0117	− 0·008	+ 13·519	− 0·353	+ 0·02	1934
608	49 Bootis δ—1st ...	+ 2·4115	+ 0·0010	+ 0·007	+ 13·513	− 0·212	+ 0·11	1936
609	*S* Libræ, Var 5 ...	+ 3·4362	+ 0·0170	...	+ 13·263	− 0·382	...	...
610	ϕ^2 Lupi	+ 3·8149	+ 0·0295	...	+ 13·198	− 0·424	...	...
611	11 Ursæ Minoris ...	− 0·0974	+ 0·0746	+ 0·008	+ 13·077	+ 0·005	− 0·00	1954
612	R.P.L 114	− 22·1514	+ 7·4383	...	+ 13·077	+ 2·443	...	...
613	51 Bootis μ	+ 2·2780	+ 0·0014	− 0·014	+ 12·898	− 0·260	− 0·08	1950
614	13 Ursæ Minoris γ ...	− 0·1418	+ 0·0750	+ 0·004	+ 12·828	+ 0·010	− 0·02	1962
615	3 Coronæ Borealis β ..	+ 2·4863	+ 0·0019	− 0·013	+ 12·702	− 0·286	− 0·07	1955
616	ε Trianguli Australis..	+ 5·4084	+ 0·1122	− 0·002	+ 12·513	− 0·621	+ 0·10	Stone
617	B.H. 952	+ 3·2347	+ 0·0113	...	+ 12·357	− 0·376	...	...
618	4 Coronæ Borealis 0 ..	+ 2·4198	+ 0·0019	− 0·006	+ 12·346	− 0·283	+ 0·02	1968
619	5 Coronæ Borealis α..	+ 2·5298	+ 0·0023	+ 0·009	+ 12·241	− 0·297	+ 0·09	1973
620	40 Libræ	+ 3·6716	+ 0·0220	...	+ 12·127	− 0·431	...	...
621	3 Lupi ψ^1	+ 3·7928	+ 0·0257	...	+ 12·069	− 0·446	...	...
622	*g* Lupi	+ 4·1154	+ 0·0370	− 0·018	+ 12·012	− 0·485	+ 0·24	Stone
623	*h* Lupi	+ 3·8848	+ 0·0283	...	+ 11·878	− 0·460	...	...
624	7 Cor. Bor. ζ—2nd ...	+ 2·2594	+ 0·0021	...	+ 11·874	− 0·270	...	...
625	15 Ursæ Minoris θ ...	− 1·8966	+ 0·1924	− 0·040	+ 11·840	− 0·219	− 0·01	2008
626	21 Serpentis *i* ...	+ 2·6771	+ 0·0035	− 0·007	+ 11·780	− 0·321	+ 0·03	1986
627	44 Libræ η	+ 3·3689	+ 0·0136	− 0·005	+ 11·702	− 0·404	+ 0·06	1985
628	8 Coronæ Borealis γ ..	+ 2·5259	+ 0·0026	− 0·008	+ 11·678	− 0·304	− 0·03	1991
629	24 Serpentis α ...	+ 2·9422	+ 0·0062	+ 0·008	+ 11·627	− 0·354	− 0·06	1990
630	27 Serpentis λ ...	+ 2·0233	+ 0·0060	− 0·016	+ 11·465	− 0·355	+ 0·06	1995

Mean Positions of Stars for 1878, *January* 1*st.*

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
631	35 Serpentis κ	4·2	...	15	43	14·85	71	28	48·9	3	0·48
632	κ Trianguli Australis ...	5·0	1	15	43	27·69	158	14	14·1	1	0·52
633	1 Scorpii *b*	4·8	...	15	43	38·60	115	22	43·4	4	0·50
634	10 Coronæ Borealis δ ...	4·6	...	15	44	28·66	63	33	24·8	4	0·50
635	38 Serpentis ρ	4·8	...	15	45	54·40	68	39	14·7	3	0·51
636	R. P. L. 115	7·0	...	15	46	14·74	4	46	28·9	2	0·75
637	11 Coronæ Borealis κ ...	4·7	...	15	46	38·06	53	57	45·4	1	0·53
638	ξ Lupi—1st.	4·5	...	15	49	5·75	123	36	26·5	3	0·48
639	ξ Lupi—2nd.	6·4	3	15	49	6·25	123	36	18·8	4	0·48
640	η Lupi—1st.	4·3	4	15	52	2·32	128	2	46·5	4	0·48
641	13 Coronæ Borealis ϵ ...	4·1	...	15	52	32·01	62	46	3·8	5	0·50
642	Taylor 7437	5·4	3	15	55	17·62	128	15	37·1	3	0·49
643	44 Serpentis π	5·0	...	15	57	2·40	66	51	22·7	1	0·45
644	δ Normæ	5·0	...	15	57	52·47	134	50	25·0	2	0·53
645	8 Scorpii β^1	2·9	...	15	58	20·68	109	28	9·5	9	0·53
646	10 Scorpii ω^2	4·6	...	16	0	15·11	110	32	15·5	5	0·49
647	*m* Scorpii	5·8	...	16	0	41·67	115	59	52·8	1	0·53
648	R. P. L. 116	7·0	...	16	1	50·21	4	21	1·6	5	0·07
649	ζ Normæ	5·8	1	16	3	40·42	145	13	19·7	1	0·52
650	13 Scorpii c^2	4·7	...	16	4	47·47	117	36	29·5	2	0·45
651	15 Scorpii ψ	4·8	...	16	5	19·84	99	44	47·3	2	0·48
652	Radcliffe 3511	5·0	...	16	5	59·56	21	52	4·5	1	0·53
653	1 Ophiuchi δ	2·8	...	16	7	57·10	93	22	43·2	15	0·50
654	18 Scorpii...	5·7	...	16	8	59·39	98	2	42·3	1	0·50
655	λ Normæ	5·5	3	16	10	48·18	132	22	24·6	3	0·47
656	3 Ophiuchi *v*	4·6	...	16	21	12·27	98	5	48·4	2	0·59
657	21 Scorpii α (*Antares*) ...	1·1	...	16	21	55·76	116	9	34·2	10	0·52
658	W. B. E. 634	9·0	3	16	34	31·04	103	9	17·0	3	0·47
659	42 Herculis	5·2	...	16	35	26·19	40	49	53·9	1	0·59
660	40 Herculis ζ	3·1	...	16	36	41·20	58	10	30·9	4	0·49
661	μ^1 Scorpii...	3·0	...	16	43	36·39	127	50	9·8	3	0·45
662	Taylor 7802	6·5	2	16	45	28·08	131	36	5·5	2	0·47
663	Taylor 7803	7·0	2	16	45	29·98	131	35	12·6	2	0·46
664	27 Ophiuchi κ	3·4	...	16	51	53·62	80	26	1·1	4	0·58
665	22 Ursæ Minoris ϵ ...	4·5	...	16	58	32·03	7	45	52·7	4	0·21

636.—Carrington 2380. 648.—Carrington 2423. 658.—Comparison star for Sappho in 1878.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
631	35 Serpentis κ ...	+ 2·7018	+ 0·0039	− 0·004	+ 11·268	− 0·331	+ 0·08	2002
632	κ Trianguli Australis..	+ 5·8442	+ 0·1245	− 0·008	+ 11·254	− 0·709	+ 0·04	Stone
633	1 Scorpii b	+ 3·5974	+ 0·0184	− 0·006	+ 11·240	− 0·439	+ 0·04	2000
634	10 Coronæ Borealis δ.	+ 2·5203	+ 0·0028	− 0·008	+ 11·180	− 0·310	+ 0·08	2010
635	38 Serpentis ρ ...	+ 2·6367	+ 0·0035	− 0·005	+ 11·075	− 0·325	− 0·02	2013
636	R.P.L. 115	− 10·2841	+ 1·5300	...	+ 11·051	+ 1·246	...	...
637	11 Coronæ Borealis κ.	+ 2·2597	+ 0·0025	− 0·003	+ 11·023	− 0·280	+ 0·36	2018
638	ξ Lupi—1st	+ 3·8197	+ 0·0235	...	+ 10·842	− 0·473	...	...
639	ξ Lupi—2nd	+ 3·8197	+ 0·0235	...	+ 10·841	− 0·473	...	...
640	η Lupi—1st	+ 3·9596	+ 0·0269	− 0·011	+ 10·624	− 0·494	+ 0·05	Stone
641	13 Coronæ Borealis ϵ.	+ 2·4879	+ 0·0030	− 0·007	+ 10·587	− 0·313	+ 0·06	2029
642	Taylor 7437	+ 3·9743	+ 0·0267	...	+ 10·382	− 0·500	...	...
643	44 Serpentis π ...	+ 2·5811	+ 0·0034	0·000	+ 10·251	− 0·328	− 0·04	2038
644	δ Normæ	+ 4·2174	+ 0·0334	...	+ 10·188	− 0·533	− 0·02	Stone
645	8 Scorpii β^1	+ 3·4798	+ 0·0142	− 0·003	+ 10·152	− 0·441	+ 0·03	2034
646	10 Scorpii ω^2 ...	+ 3·5062	+ 0·0145	+ 0·001	+ 10·008	− 0·447	+ 0·05	2040
647	m Scorpii	+ 3·6379	+ 0·0172	...	+ 9·974	− 0·464	...	...
648	R .P .L . 116 ...	− 12·2160	+ 1·7473	...	+ 9·888	+ 1·546	...	...
649	ζ Normæ	+ 4·7547	+ 0·0506	...	+ 9·748	− 0·610	...	...
650	13 Scorpii c^2 ...	+ 3·6849	+ 0·0176	+ 0·000	+ 9·662	− 0·475	+ 0·02	2052
651	15 Scorpii ψ	+ 3·2737	+ 0·0100	− 0·004	+ 9·620	− 0·423	+ 0·01	2056
652	Radcliffe 3511 ...	+ 0·1450	+ 0·0408	...	+ 9·569	− 0·022	...	...
653	1 Ophiuchi δ ...	+ 3·1419	+ 0·0081	− 0·005	+ 9·419	− 0·408	+ 0·14	2065
654	18 Scorpii	+ 3·2395	+ 0·0094	+ 0·011	+ 9·338	− 0·422	+ 0·51	2067
655	λ Normæ	+ 4·1560	+ 0·0280	...	+ 9·198	− 0·542	...	...
656	3 Ophiuchi υ ...	+ 3·2451	+ 0·0087	...	+ 8·380	− 0·434	...	...
657	21 Scorpii α	+ 3·6698	+ 0·0150	− 0·002	+ 8·322	− 0·491	+ 0·03	2091
658	W. B. E. 634 ...	+ 3·3685	+ 0·0092	...	+ 7·308	− 0·459	..	...
659	42 Herculis	+ 1·6293	+ 0·0061	− 0·001	+ 7·233	− 0·225	− 0·02	2128
660	40 Herculis ζ ...	+ 2·2968	+ 0·0033	− 0·036	+ 7·131	− 0·316	− 0·41	2127
661	μ^1 Scorpii	+ 4·0534	+ 0·0180	− 0·007	+ 6·561	− 0·562	0·00	Stone
662	Taylor 7802	+ 4·1971	+ 0·0201	...	+ 6·408	− 0·583	...	...
663	Taylor 7803	+ 4·1965	+ 0·0201	...	+ 6·405	− 0·582	...	...
664	27 Ophiuchi κ ...	+ 2·8568	+ 0·0044	− 0·021	+ 5·872	− 0·402	− 0·02	2156
665	22 Ursæ Minoris ϵ ...	− 6·3817	+ 0·3086	+ 0·009	+ 5·314	+ 0·895	+ 0·00	2201

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
666	Lacaille 7107	5·5	1	17	0	50·18	157	2	13·9	1	0·62
667	36 Ophiuchi A—1st. ...	4·7	...	17	7	50·59	116	26	19·3	2	0·59
668	64 Herculis α, Var. 1 ...	Var.	...	17	9	5·10	75	28	6·0	3	0·60
669	42 Ophiuchi θ	3·4	...	17	14	31·07	114	52	32·7	2	0·57
670	γ Aræ	3·0	2	17	15	7·67	146	15	33·6	2	0·62
671	β Aræ	3·0	2	17	15	9·48	145	24	40·0	2	0·63
672	κ^1 Aræ	5·0	1	17	16	29·53	140	31	9·6	3	0·61
673	51 Ophiuchi c^2	4·9	...	17	23	58·39	113	51	58·1	5	0·59
674	55 Ophiuchi α	2·2	...	17	29	16·26	77	20	55·7	4	0·63
675	85 Herculis ι	3·9	...	17	36	1·16	43	55	38·5	1	0·66
676	Taylor 8199	6·5	3	17	36	42·52	65	21	53·3	4	0·62
677	Taylor 8227	5·5	3	17	41	14·83	121	39	31·1	3	0·64
678	86 Herculis μ	3·5	...	17	41	41·04	62	12	22·6	7	0·62
679	62 Ophiuchi γ	3·8	...	17	41	46·50	87	14	42·0	2	0·66
680	Lacaille 7494	7·0	2	17	48	17·45	122	27	7·4	2	0·60
681	Lacaille 7506	7·2	1	17	48	47·43	116	44	54·3	2	0·62
682	Lacaille 7502	7·0	1	17	48	50·44	122	40	1·5	2	0·62
683	Taylor 8300—1st. ...	5·1	4	17	51	15·27	120	14	16·6	4	0·65
684	32 Draconis ξ	3·9	...	17	51	25·15	33	6	27·2	2	0·66
685	91 Herculis θ	4·0	...	17	52	3·97	52	43	54·6	2	0·68
686	51 Serpentis ζ	4·5	...	17	54	2·47	93	40	50·3	1	0·67
687	66 Ophiuchi	4·8	...	17	54	12·14	85	37	19·7	1	0·66
688	69 Ophiuchi τ	5·4	...	17	56	26·33	98	10	40·1	1	0·66
689	96 Herculis	5·1	...	17	57	10·13	69	9	55·4	2	0·66
690	70 Ophiuchi—1st. ...	4·1	...	17	59	17·42	87	28	11·2	2	0·69
691	ϵ Telescopii	4·5	3	18	2	10·33	135	58	23·2	4	0·62
692	Lacaille 7561	5·5	1	18	2	32·04	153	42	45·8	1	0·66
693	103 Herculis o	4·0	...	18	2	46·92	61	15	10·9	3	0·66
694	Lacaille 7577	5·0	3	18	4	5·49	153	5	2·7	3	0·64
695	13 Sagittarii μ^1	4·1	...	18	6	27·89	111	5	18·3	3	0·62
696	... ...	8·6	4	18	6	40·67	123	10	19·7	4	0·67
697	104 Herculis A	4·9	...	18	7	18·64	58	37	24·9	1	0·66
698	g Sagittarii	4·7	...	18	10	24·92	117	5	3·9	3	0·65
699	23 Ursæ Minoris δ ...	4·5	...	18	11	41·45	3	23	30·9	7	0·22
700	... ...	7·0	3	18	12	35·28	127	32	12·7	3	0·66

696.—Comparison star for Thyra in 1878.

699.—R. P. L. 125.

700.—Comparison star for Baucis in 1878.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
666	Lacaille 7107 ...	+ 6·1228	+ 0·0577	...	+ 5·121	− 0·865	...	...
667	36 Ophiuchi A—1st...	+ 3·7199	+ 0·0093	− 0·039	+ 4·524	− 0·530	+ 1·14	2176
668	64 Herculis α ...	+ 2·7343	+ 0·0035	− 0·002	+ 4·418	− 0·391	− 0·03	2183
669	42 Ophiuchi θ ...	+ 3·6799	+ 0·0080	− 0·002	+ 3·954	− 0·528	+ 0·04	2189
670	γ Aræ	+ 5·0356	+ 0·0235	− 0·004	+ 3·901	− 0·722	+ 0·01	Stone
671	β Aræ	+ 4·9740	+ 0·0225	+ 0·002	+ 3·899	− 0·713	+ 0·03	Stone
672	κ^1 Aræ	+ 4·6661	+ 0·0177	...	+ 3·784	− 0·670	+ 0·00	Stone
673	51 Ophiuchi c^2 ...	+ 3·6565	+ 0·0065	− 0·002	+ 3·139	− 0·528	+ 0·01	2209
674	55 Ophiuchi α ...	+ 2·7749	+ 0·0030	+ 0·007	+ 2·681	− 0·402	+ 0·22	2218
675	85 Herculis ι ...	+ 1·6919	+ 0·0035	− 0·000	+ 2·095	− 0·246	− 0·01	2233
676	Taylor 8199	+ 2·4623	+ 0·0027	...	+ 2·030	− 0·358	...	...
677	Taylor 8227	+ 3·8939	+ 0·0050	− 0·001	+ 1·639	− 0·567	− 0·04	Stone
678	86 Herculis μ ...	+ 2·3698	+ 0·0025	− 0·024	+ 1·601	− 0·346	+ 0·75	2237
679	62 Ophiuchi γ ...	+ 3·0081	+ 0·0028	− 0·004	+ 1·593	− 0·438	+ 0·06	2236
680	Lacaille 7494 ...	+ 3·9213	+ 0·0037	...	+ 1·025	− 0·571	...	...
681	Lacaille 7506 ...	+ 3·7452	+ 0·0033	...	+ 0·981	− 0·546	...	...
682	Lacaille 7502 ...	+ 3·9285	+ 0·0036	...	+ 0·976	− 0·572	...	...
683	Taylor 8300—1st ...	+ 3·8510	+ 0·0034	+ 0·003	+ 0·765	− 0·561	+ 0·05	Stone
684	32 Draconis ξ ...	+ 1·0234	+ 0·0038	+ 0·015	+ 0·751	− 0·149	− 0·08	2263
685	91 Herculis θ ...	+ 2·0556	+ 0·0025	− 0·002	+ 0·694	− 0·300	− 0·02	2256
686	57 Serpentis ζ ...	+ 3·1583	+ 0·0023	+ 0·008	+ 0·523	− 0·460	+ 0·04	2254
687	66 Ophiuchi	+ 2·9699	+ 0·0021	− 0·002	+ 0·507	− 0·433	− 0·02	2257
688	69 Ophiuchi τ ...	+ 3·2644	+ 0·0021	+ 0·002	+ 0·312	− 0·476	+ 0·01	2265
689	96 Herculis	+ 2·5636	+ 0·0022	− 0·002	+ 0·248	− 0·368	+ 0·01	2269
690	70 Ophiuchi—1st ...	+ 3·0132	+ 0·0019	+ 0·013	+ 0·062	− 0·489	+ 1·11	2271
691	ϵ Telescopii	+ 4·4553	+ 0·0007	...	− 0·191	− 0·650	...	...
692	Lacaille 7561 ...	+ 5·7787	− 0·0011	...	− 0·221	− 0·843	...	...
693	103 Herculis o ...	+ 2·3390	+ 0·0021	− 0·001	− 0·243	− 0·341	− 0·00	2281
694	Lacaille 7577 ...	+ 5·7053	− 0·0021	...	− 0·358	− 0·832	...	...
695	13 Sagittarii μ^1 ...	+ 3·5876	+ 0·0009	− 0·001	− 0·566	− 0·528	− 0·00	2284
696	... ...	+ 3·9458	+ 0·0003	...	− 0·584	− 0·575	...	...
697	104 Herculis A ...	+ 2·2574	+ 0·0020	− 0·002	− 0·640	− 0·329	− 0·03	2291
698	g Sagittarii	+ 3·7552	+ 0·0001	...	− 0·911	− 0·547	...	...
699	23 Ursæ Minoris δ ...	− 19·4531	− 0·3499	+ 0·026	− 1·051	+ 2·838	− 0·04	2395
700	... ...	+ 4·0980	− 0·0013	...	− 1·101	− 0·597	...	...

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.	
				h.	*m.*	*s.*	°	′	″			
701	Radcliffe 3885	5·0	1	18	13	14·45	49	6	35·4	1	0·66	
702	105 Herculis	5·5	...	18	14	9·47	65	36	10·8	3	0·67	
703	1 Lyræ κ	4·4	...	18	15	35·03	54	0	22·2	2	0·66	
704	24 Ursæ Minoris	6·1	0	18	15	57·77	3	0	44·7	1	0·15	
705	Radcliffe 3905	5·0	1	18	18	25·35	40	56	20·3	1	0·66	
706	... ...	8·2	2	18	19	9·50	121	26	25·7	2	0·62	
707	ν Pavonis	5·0	3	18	19	58·57	152	21	7·9	3	0·63	
708	39 Draconis *b*	4·8	...	18	22	7·61	31	16	9·1	3	0·66	
709	υ^1 Sagittarii	5·5	5	18	23	4·60	123	4	2·0	5	0·66	
710	υ^2 Sagittarii	5·5	1	18	25	57·38	123	6	16·1	1	0·66	
711	1 Aquilæ	4·0	...	18	28	33·99	98	19 20	38·6	5	0·67	[98 19 38·8]
712	Radcliffe 3983—2nd. ...	5·0	3	18	31	10·65	37	44	31·9	3	0·65	
713	3 Lyræ α (*Vega*)	0·2	...	18	32	48·42	51	19	40·8	3	0·63	
714	2 Aquilæ	4·8	...	18	35	35·70	99	10	1·0	5	0·67	
715	θ Pavonis	5·0	1	18	36	37·75	155	12	0·0	1	0·62	
716	3 Aquilæ	5·1	...	18	36	52·67	98	23	35·4	1	0·66	
717	46 Draconis *c*	5·2	...	18	40	16·53	34	34	57·2	1	0·67	
718	5 Lyræ ϵ^2—1st.	5·3	...	18	40	20·02	50	30	49·2	1	0·66	
719	110 Herculis	4·2	...	18	40	24·60	69	34	7·5	4	0·65	
720	7 Lyræ ζ^2	5·9	...	18	40	36·24	52	31	54·2	1	0·66	
721	6 Aquilæ	4·4	...	18	40	42·16	94	52	35·5	2	0·66	
722	κ Telescopii	5·5	1	18	42	58·26	142	14	38·0	1	0·62	
723	Radcliffe 4070	5·0	1	18	43	59·60	37	8	41·5	1	0·71	
724	κ Pavonis, Var.	5·0	3	18	44	21·64	157	22	58·1	3	0·62	
725	10 Lyræ β, Var. 1 ...	Var.	...	18	45	34·51	56	46	39·6	9	0·65	
726	35 Sagittarii ν^2	5·2	...	18	47	44·48	112	49	16·3	1	0·66	
727	ω Pavonis	5·5	1	18	47	45·42	150	21	30·0	1	0·66	
728	Radcliffe 4109	5·0	1	18	48	50·65	37	10	52·6	1	0·72	
729	47 Draconis *o*	4·6	...	18	49	24·01	30	45	36·0	2	0·72	
730	113 Herculis	4·6	...	18	49	36·10	67	30	28·7	1	0·67	35·93
731	63 Serpentis θ—1st. ...	4·7	...	18	50	9·28	85	57	11·5	1	0·66	
732	9 Aquilæ	5·1	...	18	50	31·76	96	0	9·4	4	0·64	
733	R. P. L. 131	6·5	...	18	54	33·86	3	26	51·9	1	0·62	
734	48 Draconis	5·6	...	18	54	41·23	32	20	45·4	2	0·66	
735	12 Aquilæ	4·0	...	18	55	9·99	95	54	31·1	5	0·69	

706.—Comparison star for Diana in 1864.

733.—Carrington 2882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
701	Radcliffe 3885 ...	+ 1·9165	+ 0·0020	...	− 1·158	− 0·279	...	...
702	105 Herculis	+ 2·4671	+ 0·0019	+ 0·001	− 1·238	− 0·358	− 0·00	2300
703	1 Lyræ κ	+ 2·1034	+ 0·0020	− 0·002	− 1·362	− 0·298	− 0·04	2305
704	24 Ursæ Minoris ...	− 22·2694	− 0·6000	+ 0·067	− 1·396	+ 3·241	+ 0·02	2417
705	Radcliffe 3905 ...	+ 1·5359	+ 0·0016	...	− 1·611	− 0·222	...	...
706	... ...	+ 3·8867	− 0·0019	...	− 1·675	− 0·564	...	...
707	ν Pavonis	+ 5·6147	− 0·0133	...	− 1·746	− 0·815	...	...
708	39 Draconis b ...	+ 0·8810	− 0·0004	− 0·005	− 1·934	− 0·127	− 0·05	2328
709	υ^1 Sagittarii	+ 3·9383	− 0·0028	...	− 2·016	− 0·571	...	...
710	υ^2 Sagittarii	+ 3·9383	− 0·0034	...	− 2·266	− 0·570	...	...
711	1 Aquilæ	+ 3·2668	− 0·0004	− 0·003	− 2·498	− 0·472	+ 0·31	2330
712	Radcliffe 3983—2nd...	+ 1·3610	+ 0·0003	...	− 2·720	− 0·196	...	...
713	3 Lyræ α	+ 2·0132	+ 0·0016	+ 0·017	− 2·861	− 0·290	− 0·30	2341
714	2 Aquilæ	+ 3·2854	− 0·0010	− 0·000	− 3·102	− 0·473	− 0·01	2342
715	θ Pavonis	+ 5·9289	− 0·0305	− 0·007	− 3·192	− 0·853	+ 0·04	Stone
716	3 Aquilæ	+ 3·2670	− 0·0010	− 0·000	− 3·213	− 0·469	− 0·02	2343
717	46 Draconis c ...	+ 1·1630	− 0·0013	− 0·004	− 3·506	− 0·165	− 0·02	2360
718	5 Lyræ ϵ^2—1st ...	+ 1·9877	+ 0·0014	− 0·001	− 3·515	− 0·283	− 0·07	2356
719	110 Herculis... ...	+ 2·5819	+ 0·0012	− 0·003	− 3·518	− 0·369	+ 0·35	2351
720	7 Lyræ ζ^2	+ 2·0636	+ 0·0014	+ 0·001	− 3·534	− 0·294	− 0·03	2358
721	6 Aquilæ	+ 3·1846	− 0·0009	− 0·002	− 3·543	− 0·455	+ 0·02	2350
722	κ Telescopii	+ 4·7683	− 0·0162	...	− 3·738	− 0·680	...	...
723	Radcliffe 4070 ...	+ 1·3399	− 0·0008	...	− 3·826	− 0·190	...	...
724	κ Pavonis, Var. ...	+ 6·2214	− 0·0437	− 0·011	− 3·857	− 0·889	− 0·10	Stone
725	10 Lyræ β, Var. 1 ...	+ 2·2139	+ 0·0015	− 0·001	− 3·961	− 0·315	− 0·02	2369
726	35 Sagittarii ν^2 ...	+ 3·6227	− 0·0045	+ 0·005	− 4·147	− 0·515	+ 0·01	2366
727	ω Pavonis	+ 5·3709	− 0·0287	...	− 4·149	− 0·765	...	...
728	Radcliffe 4109 ...	+ 1·3496	− 0·0011	...	− 4·242	− 0·190	...	...
729	47 Draconis o ...	+ 0·8780	− 0·0045	+ 0·009	− 4·288	− 0·123	− 0·02	2386
730	113 Herculis... ...	+ 2·5316	+ 0·0011	− 0·001	− 4·307	− 0·359	− 0·01	2378
731	63 Serpentis θ—1st...	+ 2·9799	− 0·0005	+ 0·001	− 4·354	− 0·422	− 0·04	2376
732	9 Aquilæ	+ 3·2094	− 0·0017	+ 0·003	− 4·386	− 0·455	+ 0·03	2375
733	R. P. L. 131	− 18·4918	− 1·5174	...	− 4·730	+ 2·622	...	...
734	48 Draconis	+ 1·0211	− 0·0039	− 0·005	− 4·740	− 0·143	+ 0·06	2400
735	12 Aquilæ	+ 3·2066	− 0·0020	− 0·005	− 4·781	− 0·452	+ 0·02	2391

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
736	Lacaille 7944	5·5	1	18	56	55·80	158	36	32·6	1	0·67
737	17 Aquilæ ζ	3·1	...	18	59	48·06	76	18	57·5	6	0·67
738	β Coronæ Australis ...	5·0	4	19	1	37·49	129	31	55·1	5	0·64
739	τ Pavonis	5·5	5	19	3	22·23	159	23	39·2	5	0·65
740	53 Draconis	5·2	...	19	9	22·05	33	20	53·0	5	0·69
741	20 Lyræ η—1st	4·5	...	19	9	36·54	51	3	43·1	1	0·67
742	1 Vulpeculæ	4·7	...	19	10	58·38	68	49	24·4	2	0·73
743	54 Draconis	5·3	...	19	11	44·62	32	30	16·6	2	0·70
744	25 Aquilæ ω	5·1	...	19	12	5·33	78	37	20·7	5	0·65
745	21 Lyræ θ	4·3	...	19	12	7·82	52	4	56·7	2	0·74
746	1 Cygni κ	3·9	...	19	14	16·99	36	51	17·6	3	0·63
747	α Sagittarii	4·0	1	19	15	25·76	130	50	34·5	1	0·62
748	47 Sagittarii χ^1	5·1	...	19	17	51·07	114	44	36·2	5	0·70
749	Taylor 8907—2nd ...	6·0	...	19	17	59·73	144	33	58·4	1	0·62
750	31 Aquilæ b	5·3	...	19	19	9·11	78	18	52·4	2	0·73
751	30 Aquilæ δ	3·5	...	19	19	20·74	87	7	35·4	10	0·67
752	58 Draconis π	4·6	...	19	20	2·36	24	31	10·9	3	0·64
753	32 Aquilæ ν	4·8	...	19	20	16·90	89	54	10·0	3	0·72
754	10 Cygni ι^2	3·9	...	19	26	37·81	38	31	44·1	5	0·70
755	37 Aquilæ k	5·3	...	19	28	23·94	100	49	29·0	4	0·71
756	52 Sagittarii h^2	4·6	...	19	29	16·83	115	9	1·0	6	0·69
757	61 Draconis σ	4·7	...	19	32	35·60	20	32	49·0	3	0·70
758	54 Sagittarii e^1	5·6	...	19	33	43·94	106	34	14·1	5	0·69
759	6 Sagittæ β	4·4	...	19	35	34·15	72	48	17·7	5	0·70
760	Radcliffe 4413	5·0	2	19	35	56·35	35	18	40·4	3	0·73
761	Taylor 9071	5·5	5	19	38	14·05	122	12	2·5	5	0·70
762	Lacaille 8195	5·6	...	19	39	19·70	155	54	3·3	2	0·63
763	15 Cygni	5·0	...	19	39	52·59	52	56	20·7	5	0·66
764	50 Aquilæ γ	2·8	...	19	40	27·56	79	40	55·9	8	0·69
765	Radcliffe 4446	5·0	2	19	40	51·64	32	16	26·1	3	0·74
766	17 Cygni	5·0	...	19	41	47·90	56	33	17·3	2	0·73
767	8 Sagittæ ζ	5·0	...	19	43	33·61	71	9	45·5	4	0·70
768	51 Aquilæ	5·6	...	19	44	4·09	101	4	15·1	3	0·72
769	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	49·84	81	27	7·2	2	0·75
770	Lacaille 8224	5·5	1	19	46	3·41	159	28	50·9	1	0·64

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
736	Lacaille 7944 ...	+ 6·3806	− 0·0614	...	− 4·931	− 0·900	...	...
737	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·174	− 0·387	+ 0·09	2405
738	β Coronæ Australis...	+ 4·1359	− 0·0130	− 0·005	− 5·327	− 0·579	+ 0·07	Stone
739	τ Pavonis	+ 6·4929	− 0·0727	...	− 5·474	− 0·910	...	...
740	53 Draconis	+ 1·1331	− 0·0045	+ 0·004	− 5·978	− 0·155	− 0·05	2433
741	20 Lyræ η—1st ...	+ 2·0414	+ 0·0010	− 0·002	− 5·997	− 0·281	− 0·01	2427
742	1 Vulpeculæ... ...	+ 2·5789	+ 0·0007	− 0·001	− 6·112	− 0·355	+ 0·00	2428
743	54 Draconis	+ 1·0761	− 0·0044	− 0·002	− 6·175	− 0·146	+ 0·07	2444
744	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·205	− 0·388	− 0·03	2432
745	21 Lyræ θ	+ 2·0820	+ 0·0010	− 0·004	− 6·207	− 0·286	0·00	2438
746	1 Cygni κ	+ 1·3806	− 0·0026	+ 0·007	− 6·387	− 0·188	− 0·11	2447
747	α Sagittarii	+ 4·1661	− 0·0168	− 0·011	− 6·482	− 0·572	+ 0·07	Stone
748	47 Sagittarii χ^1 ...	+ 3·6532	− 0·0086	+ 0·002	− 6·682	− 0·500	+ 0·05	2445
749	Taylor 8907—2nd ...	+ 4·8434	− 0·0330	...	− 6·694	− 0·663	...	...
750	31 Aquilæ *b*	+ 3·8121	− 0·0004	+ 0·049	− 6·789	− 0·383	− 0·65	2452
751	30 Aquilæ δ	+ 3·0091	− 0·0018	+ 0·015	− 6·805	− 0·410	− 0·09	2451
752	58 Draconis π ...	+ 0·3182	− 0·0188	− 0·001	− 6·867	− 0·041	− 0·03	2471
753	32 Aquilæ ν	+ 3·0701	− 0·0023	− 0·001	− 6·888	− 0·418	− 0·02	2455
754	10 Cygni ι^2	+ 1·5117	− 0·0021	+ 0·002	− 7·401	− 0·202	− 0·12	2481
755	37 Aquilæ *k*	+ 3·3091	− 0·0052	− 0·000	− 7·544	− 0·444	+ 0·00	2477
756	52 Sagittarii h^2 ...	+ 3·6529	− 0·0102	+ 0·002	− 7·617	− 0·490	+ 0·01	2478
757	61 Draconis σ ...	− 0·2078	− 0·0373	+ 0·097	− 7·882	+ 0·051	+ 1·77	2505
758	54 Sagittarii e^1 ...	+ 3·4373	− 0·0074	+ 0·003	− 7·975	− 0·457	+ 0·04	2490
759	6 Sagittæ β ...	+ 2·6940	+ 0·0001	− 0·001	− 8·123	− 0·356	+ 0·04	2499
760	Radcliffe 4413 ...	+ 1·3479	− 0·0043	...	− 8·152	− 0·177	...	...
761	Taylor 9071	+ 3·3380	− 0·0151	...	− 8·335	− 0·505	...	...
762	Lacaille 8195	+ 5·7848	− 0·0817	...	− 8·422	− 0·762	...	...
763	15 Cygni	+ 2·1569	+ 0·0011	+ 0·006	− 8·465	− 0·280	− 0·04	2514
764	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·511	− 0·373	− 0·01	2511
765	Radcliffe 4446 ...	+ 1·1569	− 0·0072	...	− 8·544	− 0·149	...	...
766	17 Cygni	+ 2·2740	+ 0·0013	− 0·001	− 8·618	− 0·296	+ 0·43	2517
767	8 Sagittæ ζ	+ 2·6619	+ 0·0002	+ 0·002	− 8·756	− 0·345	− 0·03	2523
768	51 Aquilæ	+ 3·3073	− 0·0062	− 0·004	− 8·797	− 0·430	− 0·06	2519
769	53 Aquilæ α	+ 2·8920	− 0·0014	+ 0·035	− 8·856	− 0·374	− 0·38	2524
770	Lacaille 8224 ...	+ 6·2688	− 0·1143	...	− 8·952	− 0·815	...	...

Mean Positions of Stars for 1878, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
771	Radcliffe 4469	5·0	1	19	46	25·77	49	42	31·9	1	0·69
772	ι Sagittarii	4·5	3	19	46	50·20	132	11	11·6	3	0·62
773	B. F. 2695—2nd	5·5	2	19	46	55·71	93	25	42·9	2	0·72
774	59 Aquilæ ξ	4·9	...	19	48	20·00	81	51	9·7	3	0·66
775	58 Sagittarii ω	5·0	...	19	48	21·79	116	37	16·9	2	0·75
776	μ^1 Pavonis	5·5	2	19	48	29·58	157	16	3·9	2	0·64
777	60 Aquilæ β	4·0	...	19	49	19·19	83	53	45·3	7	0·70
778	22 Cygni	4·7	...	19	51	30·02	51	50	13·1	1	0·75
779	θ^1 Sagittarii	4·2	...	19	51	47·70	125	36	15·8	5	0·67
780	Taylor 9172	5·3	1	19	51	56·08	125	1	30·5	1	0·76
781	Radcliffe 4517	5·0	2	19	52	59·84	49	57	31·6	2	0·71
782	14 Vulpeculæ	5·7	...	19	53	56·55	67	13	45·5	4	0·71
783	15 Vulpeculæ	4·9	...	19	56	4·56	62	34	55·7	5	0·69
784	Taylor 9215	5·0	2	19	56	34·33	65	32	13·3	3	0·72
785	δ Pavonis	4·0	1	19	56	43·99	156	29	28·1	2	0·63
786	63 Aquilæ τ	5·6	...	19	58	10·88	83	3	51·7	5	0·73
787	64 Draconis ε	5·4	...	20	0	10·86	25	31	12·0	5	0·67
788	O. A. S. 20269	9·1	2	20	1	55·75	105	45	55·5	2	0·62
789	67 Draconis ρ	4·6	...	20	2	15·82	22	28	25·5	5	0·73
790	66 Draconis	5·6	...	20	3	36·23	28	21	28·9	5	0·68
791	28 Cygni b^2	4·8	...	20	4	53·79	53	31	5·9	5	0·69
792	67 Aquilæ ρ	5·1	...	20	8	37·81	75	10	21·7	5	0·70
793	Radcliffe 4654	5·9	3	20	9	7·97	38	54	10·8	3	0·77
794	30 Cygni o^1	4·9	...	20	9	27·95	43	33	8·6	4	0·71
795	31 Cygni o^2	3·8	...	20	9	47·24	43	37	39·6	3	0·78
796	B. H. 1548	5·0	5	20	10	5·80	64	46	45·8	5	0·65
797	33 Cygni	4·4	...	20	10	33·55	33	48	16·4	2	0·73
798	23 Vulpeculæ	4·8	...	20	10	42·80	62	33	29·3	2	0·71
799	6 Capricorni a^2	3·8	...	20	11	17·05	102	55	16·4	9	0·72
800	Radcliffe 4751	5·1	4	20	18	25·44	49	21	47·4	5	0·73
801	39 Cygni	4·6	...	20	18	59·25	58	12	9·1	5	0·68
802	11 Capricorni ρ	5·0	...	20	21	53·99	108	12	55·5	15	0·74
803	69 Aquilæ	5·2	...	20	23	16·57	93	17	24·0	5	0·73
804	41 Cygni	4·1	...	20	24	24·67	60	2	15·2	4	0·73
805	ϕ^1 Pavonis	5·1	2	20	25	27·94	150	59	27·0	2	0·81

788.—Comparison star for Ariadne in 1877.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	″	″	″	
771	Radcliffe 4469 ...	+ 2·0588	+ 0·0010	...	− 8·982	− 0·264	...	...
772	ι Sagittarii	+ 4·1547	− 0·0245	− 0·003	− 9·014	− 0·537	− 0·08	Stone
773	B. F. 2695—2nd ...	+ 3·1438	− 0·0041	...	− 9·020	− 0·406	...	...
774	59 Aquilæ ξ	+ 2·9019	− 0·0016	+ 0·006	− 9·130	− 0·373	+ 0·07	2536
775	58 Sagittarii ω ...	+ 3·6689	− 0·0131	+ 0·013	− 9·132	− 0·473	− 0·09	2528
776	μ^1 Pavonis	+ 5·9125	− 0·0971	...	− 9·143	− 0·764	...	...
777	60 Aquilæ β	+ 2·9452	− 0·0020	+ 0·001	− 9·207	− 0·378	+ 0·47	2538
778	22 Cygni	+ 2·1435	+ 0·0012	− 0·000	− 9·376	− 0·272	− 0·01	2547
779	θ^1 Sagittarii... ...	+ 3·9179	− 0·0194	...	− 9·399	− 0·501	...	...
780	Taylor 9172	+ 3·8997	− 0·0190	...	− 9·410	− 0·498	...	...
781	Radcliffe 4517 ...	+ 2·0826	+ 0·0010	...	− 9·492	− 0·260	...	...
782	14 Vulpeculæ ...	+ 2·5790	+ 0·0007	− 0·007	− 9·565	− 0·327	− 0·02	2553
783	15 Vulpeculæ ...	+ 2·4658	+ 0·0012	+ 0·003	− 9·728	− 0·311	− 0·03	2558
784	Taylor 9215	+ 2·5410	+ 0·0009	...	− 9·767	− 0·320	...	...
785	δ Pavonis	+ 5·7555	− 0·0967	+ 0·193	− 9·779	− 0·730	+ 1·23	Stone
786	63 Aquilæ τ	+ 2·9307	− 0·0019	+ 0·000	− 9·889	− 0·368	− 0·04	2564
787	64 Draconis ε ...	+ 0·6482	− 0·0208	− 0·002	− 10·041	− 0·078	+ 0·02	2578
788	O. A. S. 20269 ...	+ 3·3975	− 0·0090	...	− 10·173	− 0·423	...	...
789	67 Draconis ρ ...	+ 0·2896	− 0·0323	+ 0·001	− 10·198	− 0·032	− 0·03	2587
790	66 Draconis	+ 0·9467	− 0·0138	+ 0·015	− 10·299	− 0·115	− 0·05	2586
791	28 Cygni b^2	+ 2·2268	+ 0·0017	+ 0·000	− 10·395	− 0·274	− 0·05	2582
792	67 Aquilæ ρ	+ 2·7727	− 0·0005	+ 0·003	− 10·674	− 0·338	− 0·08	2590
793	Radcliffe 4654 ...	+ 1·6716	− 0·0017	...	− 10·711	− 0·201	...	...
794	30 Cygni o^1	+ 1·8845	+ 0·0005	+ 0·002	− 10·736	− 0·227	+ 0·02	2601
795	31 Cygni o^2	+ 1·8886	+ 0·0005	− 0·000	− 10·759	− 0·228	− 0·00	2603
796	B. H. 1548	+ 2·5413	+ 0·0012	...	− 10·782	− 0·308	...	...
797	33 Cygni	+ 1·3909	− 0·0056	+ 0·010	− 10·817	− 0·166	− 0·10	2611
798	23 Vulpeculæ ...	+ 2·4879	+ 0·0015	− 0·005	− 10·828	− 0·301	− 0·01	2602
799	6 Capricorni α^2 ...	+ 3·3300	− 0·0084	+ 0·002	− 10·870	− 0·403	− 0·02	2595
800	Radcliffe 4751 ...	+ 2·1279	+ 0·0019	...	− 11·390	− 0·250	...	...
801	39 Cygni	+ 2·3913	+ 0·0020	+ 0·003	− 11·430	− 0·282	− 0·01	2625
802	11 Capricorni ρ ...	+ 3·4306	− 0·0115	− 0·003	− 11·638	− 0·403	+ 0·01	2626
803	69 Aquilæ	+ 3·1345	− 0·0053	+ 0·003	− 11·737	− 0·366	− 0·00	2633
804	41 Cygni	+ 2·4496	+ 0·0021	+ 0·001	− 11·817	− 0·234	+ 0·00	2637
805	ϕ^1 Pavonis	+ 5·0138	− 0·0774	+ 0·004	− 11·892	− 0·584	...	Stone

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
806	45 Cygni ω^2	5·0	...	20	26	16·86	41	27	27·2	3	0·74
807	2 Delphini ϵ	4·1	...	20	27	22·90	79	6	36·2	3	0·73
808	2 Cephei θ	4·3	...	20	27	31·71	27	24	55·9	1	0·75
809	46 Cygni ω^3	5·6	...	20	27	32·97	41	11	26·1	2	0·71
810	R. P. L. 143	6·7	...	20	27	43·17	5	15	40·9	3	0·51
811	4 Delphini ζ	4·7	...	20	29	36·27	75	44	44·0	3	0·74
812	ϕ^3 Pavonis	5·5	1	20	29	55·75	150	57	19·1	2	0·71
813	70 Aquilæ	5·3	...	20	30	22·32	92	58	17·2	3	0·74
814	υ Pavonis	6·1	2	20	30	44·37	157	11	18·6	2	0·78
815	6 Delphini β	3·7	...	20	31	49·68	75	49	41·0	4	0·76
816	71 Aquilæ	4·4	...	20	32	2·18	91	31	47·9	3	0·74
817	8 Delphini θ	6·1	...	20	32	58·38	77	6	42·3	4	0·75
818	1 Aquarii	5·4	...	20	33	9·68	89	56	29·0	2	0·78
819	9 Delphini α	4·0	...	20	33	58·30	74	31	1·6	3	0·73
820	50 Cygni α (*Deneb*) ...	1·5	...	20	37	16·33	45	9	16·9	5	0·79
821	11 Delphini δ	4·6	...	20	37	45·82	75	21	42·3	5	0·72
822	16 Capricorni ψ	4·3	...	20	38	52·18	115	42	28·5	5	0·75
823	ι Microscopii—1st... ...	5·5	5	20	40	12·62	134	25	52·8	5	0·68
824	53 Cygni ϵ...	2·7	...	20	41	16·57	56	29	7·2	4	0·69
825	λ^1 Cygni, Var. 5	6·1	3	20	42	18·65	56	4	23·0	3	0·64
826	Radcliffe 4950	4·8	5	20	42	19·24	32	51	27·6	5	0·77
827	54 Cygni λ	4·6	...	20	42	39·22	53	57	24·4	4	0·77
828	ι Indi	5·0	1	20	42	40·37	142	3	38·4	1	0·79
829	3 Cephei η	3·6	...	20	42	48·19	28	38	2·3	2	0·81
830	18 Capricorni ω	4·4	...	20	44	32·19	117	22	26·0	5	0·71
831	β Indi	4·0	1	20	45	15·60	148	54	45·2	1	0·64
832	57 Cygni	4·6	...	20	48	55·85	46	4	24·7	5	0·67
833	32 Vulpeculæ	5·1	...	20	49	21·54	62	24	18·8	10	0·74
834	76 Draconis	5·6	...	20	51	19·21	7	55	20·2	2	0·79
835	58 Cygni ν...	4·1	...	20	52	37·33	49	18	4·6	5	0·75
836	χ Cephei	6·1	...	20	53	1·22	33	34	53·9	5	0·69
837	Radcliffe 5066	5·5	2	20	53	4·21	9	54	22·1	2	0·80
838	1 Piscis Australis... ...	5·3	4	20	53	48·27	122	43	58·2	4	0·76
839	22 Capricorni η	5·2	...	20	57	27·61	110	20	9·2	4	0·73
840	12 Aquarii	5·8	...	20	57	37·41	96	18	17·5	5	0·77

810.—Carrington 3128.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
806	45 Cygni ω^2	+ 1·8569	+ 0·0035	0·000	− 11·948	− 0·213	− 0·01	2645
807	2 Delphini ϵ	+ 2·8665	− 0·0013	− 0·001	− 12·026	− 0·330	+ 0·02	2642
808	2 Cephei θ	+ 1·0106	− 0·0147	+ 0·005	− 12·037	− 0·119	+ 0·03	2651
809	46 Cygni ω^3	+ 1·8504	+ 0·0004	+ 0·001	− 12·037	− 0·212	+ 0·04	2647
810	R. P. L. 143	− 8·5331	− 1·2770	...	− 12·049	+ 0·999	...	...
811	4 Delphini ζ	+ 2·8025	− 0·0005	+ 0·001	− 12·181	− 0·320	+ 0·00	2648
812	ϕ^3 Pavonis	+ 4·9827	− 0·0786	+ 0·038	− 12·203	− 0·572	+ 0·49	Stone
813	70 Aquilæ	+ 3·1272	− 0·0053	− 0·000	− 12·234	− 0·357	− 0·00	2649
814	υ Pavonis	+ 5·5878	− 0·1200	+ 0·001	− 12·259	− 0·641	0·00	Stone
815	6 Delphini β	+ 2·8061	− 0·0005	+ 0·006	− 12·335	− 0·318	+ 0·03	2656
816	71 Aquilæ	+ 3·1004	− 0·0049	− 0·000	− 12·349	− 0·351	− 0·00	2654
817	8 Delphini θ	+ 2·8320	− 0·0007	− 0·002	− 12·414	− 0·320	+ 0·01	2662
818	1 Aquarii	+ 3·0712	− 0·0044	+ 0·005	− 12·427	− 0·347	+ 0·02	2661
819	9 Delphini α	+ 2·7824	− 0·0001	+ 0·003	− 12·482	− 0·313	+ 0·00	2670
820	50 Cygni α	+ 2·0486	+ 0·0021	− 0·000	− 12·707	− 0·226	− 0·00	2679
821	11 Delphini δ ...	+ 2·8026	− 0·0003	− 0·003	− 12·740	− 0·311	+ 0·04	2678
822	16 Capricorni ψ ...	+ 3·5674	− 0·0169	− 0·006	− 12·815	− 0·395	+ 0·15	2676
823	ι Microscopii—1st. ...	+ 4·0755	− 0·0360	...	− 12·905	− 0·450	...	...
824	53 Cygni ϵ	+ 2·3972	+ 0·0030	+ 0·028	− 12·976	− 0·261	− 0·34	2689
825	λ^1 Cygni, Var. 5 ...	+ 2·3892	+ 0·0030	...	− 13·045	− 0·259	...	...
826	Radcliffe 4950 ...	+ 1·5002	− 0·0045	...	− 13·046	− 0·159	...	...
827	54 Cygni λ	+ 2·3343	+ 0·0031	− 0·001	− 13·066	− 0·199	− 0·02	2692
828	ι Indi	+ 4·3732	− 0·0512	− 0·002	− 13·067	− 0·478	+ 0·06	Stone
829	3 Cephei η	+ 1·2161	− 0·0112	+ 0·013	− 13·078	− 0·128	− 0·31	2698
830	18 Capricorni ω ...	+ 3·5936	− 0·0184	− 0·003	− 13·193	− 0·389	− 0·00	2690
831	β Indi	+ 4·7377	− 0·0734	− 0·008	− 13·240	− 0·514	− 0·01	Stone
832	57 Cygni	+ 2·1188	+ 0·0031	+ 0·002	− 13·480	− 0·223	+ 0·01	2710
833	32 Vulpeculæ ...	+ 2·5558	+ 0·0026	− 0·002	− 13·507	− 0·270	+ 0·00	2709
834	76 Draconis	+ 3·9734	− 0·5233	+ 0·014	− 13·660	+ 0·429	− 0·01	2754
835	58 Cygni ν	+ 2·2334	+ 0·0009	0·000	− 13·717	− 0·232	− 0·00	2724
836	χ Cephei	+ 1·6057	− 0·0026	− 0·001	− 13·742	− 0·165	+ 0·02	2727
837	Radcliffe 5066 ...	− 2·5023	− 0·3095	...	− 13·745	+ 0·271	...	...
838	1 Piscis Australis ...	+ 3·6961	− 0·0235	− 0·004	− 13·792	− 0·385	− 0·03	2714
839	22 Capricorni η ...	+ 3·4265	− 0·0143	− 0·005	− 14·028	− 0·352	+ 0·04	2729
840	12 Aquarii	+ 3·1778	− 0·0071	− 0·000	− 14·033	− 0·325	− 0·00	2730

−13·634

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
841	η Microscopii	5·7	3	20	58	28·87	131	52	16·3	4	0·74
842	2 Piscis Australis ...	5·5	4	20	58	57·05	122	49	39·1	5	0·71
843	24 Capricorni A	4·6	...	20	59	59·35	115	29	31·2	4	0·75
844	62 Cygni ξ	3·7	...	21	0	29·50	46	33	27·4	3	0·72
845	25 Capricorni χ	5·3	...	21	1	34·19	111	40	57·5	4	0·76
846	o Pavonis	6·0	1	21	1	52·50	160	37	23·7	1	0·79
847	63 Cygni f^2	5·1	...	21	2	24·07	42	50	27·7	2	0·74
848	5 Equulei γ	4·8	...	21	4	24·54	80	21	31·2	5	0·72
849	64 Cygni ζ	3·5	...	21	7	44·60	60	16	21·2	8	0·77
850	7 Equulei δ	4·6	...	21	8	32·34	80	29	10·0	5	0·75
851	Radcliffe 5151	5·8	5	21	8	41·65	30	30	52·7	5	0·78
852	... ...	10·5	1	21	9	4·20	110	46	38·3	1	0·75
853	8 Equulei α	4·1	...	21	9	43·50	85	15	18·9	3	0·73
854	65 Cygni τ	3·9	...	21	9	55·12	52	28	26·8	3	0·78
855	4 Piscis Australis ...	4·8	...	21	10	32·20	122	40	51·5	5	0·77
856	67 Cygni σ	4·3	...	21	12	37·36	51	6	57·8	3	0·80
857	66 Cygni υ	4·4	...	21	12	54·04	55	36	52·8	5	0·76
858	6 Cephei	5·3	...	21	16	50·06	25	38	41·9	5	0·75
859	36 Capricorni b	4·5	...	21	21	46·05	112	20	13·6	5	0·73
860	... ...	9·4	4	21	22	13·95	147	29	21·0	4	0·82
861	Taylor 9975	5·6	4	21	24	22·29	131	42	56·2	5	0·76
862	71 Cygni g	5·3	...	21	24	56·84	43	59	47·6	4	0·76
863	Radcliffe 5252	8·0	1	21	25	6·47	44	6	28·7	1	0·81
864	22 Aquarii β	3·1	...	21	25	8·04	96	6	25·1	7	0·78
865	Radcliffe 5280	5·6	4	21	27	38·15	30	4	41·3	5	0·80
866	8 Piscis Australis ...	5·8	...	21	29	6·38	116	42	52·4	4	0·77
867	73 Cygni ρ	4·2	...	21	29	23·36	44	56	40·3	4	0·77
868	4 Pegasi	5·7	...	21	32	25·46	84	46	39·5	5	0·75
869	9 Cephei	4·8	...	21	34	38·92	28	28	3·3	5	0·81
870	80 Cygni π^1	4·9	...	21	37	45·75	39	21	59·8	5	0·76
871	8 Pegasi ϵ	2·4	...	21	38	11·63	80	41	1·1	3	0·81
872	78 Cygni μ—1st	4·6	...	21	38	41·14	61	48	27·2	5	0·79
873	78 Cygni μ—2nd	6·1	...	21	38	41·44	61	48	28·2	3	0·79
874	9 Pegasi	4·4	...	21	38	44·02	73	12	30·9	3	0·76
875	10 Pegasi κ	4·2	...	21	39	7·16	64	54	54·3	3	0·76

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
841	η Microscopii ...	+ 3·9252	− 0·0341	− 0·002	− 14·086	− 0·402	+ 0·06	Stone
842	2 Piscis Australis ...	+ 3·6850	− 0·0239	− 0·005	− 14·115	− 0·376	+ 0·01	2731
843	24 Capricorni A ...	+ 3·5231	− 0·0178	− 0·005	− 14·180	− 0·358	+ 0·02	2737
844	62 Cygni ξ	+ 2·1789	+ 0·0042	+ 0·001	− 14·211	− 0·218	+ 0·01	2746
845	25 Capricorni χ ...	+ 3·4455	− 0·0154	− 0·000	− 14·277	− 0·347	+ 0·05	2741
846	o Pavonis	+ 5·7381	− 0·1714	+ 0·010	− 14·296	− 0·582	− 0·05	Stone
847	63 Cygni f^2	+ 2·0646	+ 0·0087	+ 0·001	− 14·328	− 0·205	+ 0·01	2750
848	5 Equulei γ	+ 2·9148	− 0·0012	+ 0·002	− 14·451	− 0·289	+ 0·17	2751
849	64 Cygni ζ	+ 2·5510	+ 0·0038	− 0·002	− 14·651	− 0·248	+ 0·07	2760
850	7 Equulei δ	+ 2·9199	− 0·0012	+ 0·001	− 14·699	− 0·284	+ 0·29	2761
851	Radcliffe 5151 ...	+ 1·5303	− 0·0040	...	− 14·707	− 0·145	...	...
852	... ...	+ 3·4164	− 0·0149	...	− 14·731	− 0·333	...	...
853	8 Equulei α	+ 2·9972	− 0·0028	+ 0·002	− 14·770	− 0·290	+ 0·08	2764
854	65 Cygni τ	+ 2·3783	+ 0·0050	+ 0·012	− 14·781	− 0·228	− 0·46	2767
855	4 Piscis Australis ...	+ 3·6502	− 0·0242	+ 0·001	− 14·818	− 0·353	+ 0·03	2762
856	67 Cygni σ	+ 2·3531	+ 0·0053	− 0·001	− 14·940	− 0·223	+ 0·01	2769
857	66 Cygni υ	+ 2·4627	+ 0·0049	− 0·001	− 14·956	− 0·234	+ 0·00	2770
858	6 Cephei	+ 1·2529	− 0·0124	− 0·001	− 15·182	− 0·112	− 0·02	2788
859	36 Capricorni b ...	+ 3·4221	− 0·0162	+ 0·008	− 15·461	− 0·311	+ 0·01	2790
860	... ...	+ 4·4048	− 0·0722	...	− 15·488	− 0·402	...	...
861	Taylor 9975	+ 3·8207	− 0·0356	...	− 15·605	− 0·343	...	...
862	71 Cygni g	+ 2·2054	+ 0·0064	+ 0·002	− 15·637	− 0·195	− 0·10	2799
863	Radcliffe 5252 ...	+ 2·2095	+ 0·0065	...	− 15·646	− 0·195	...	...
864	22 Aquarii β ...	+ 3·1617	− 0·0071	− 0·001	− 15·647	− 0·282	+ 0·00	2797
865	Radcliffe 5280 ...	+ 1·6482	− 0·0009	...	− 15·783	− 0·141	...	...
866	8 Piscis Australis ...	+ 3·4839	− 0·0197	+ 0·006	− 15·863	− 0·304	+ 0·03	2802
867	73 Cygni ρ	+ 2·2540	+ 0·0071	− 0·003	− 15·878	− 0·194	+ 0·11	2810
868	4 Pegasi	+ 2·9989	− 0·0023	+ 0·006	− 16·039	− 0·256	− 0·03	2813
869	9 Cephei	+ 1·6113	− 0·0016	− 0·001	− 16·154	− 0·132	+ 0·01	2830
870	80 Cygni π^1	+ 2·1246	+ 0·0074	− 0·002	− 16·314	− 0·173	+ 0·01	2845
871	8 Pegasi ϵ	+ 2·9451	− 0·0005	+ 0·001	− 16·336	− 0·242	− 0·01	2835
872	78 Cygni μ—1st	+ 2·6579	+ 0·0055	+ 0·019	− 16·362	− 0·217	+ 0·25	2839
873	78 Cygni μ—2nd							
874	9 Pegasi	+ 2·8391	+ 0·0021	+ 0·002	− 16·364	− 0·233	+ 0·00	2837
875	10 Pegasi κ ...	+ 2·7113	+ 0·0047	0·000	− 16·384	− 0·221	− 0·01	2848

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
876	11 Cephei...	4·8	...	21	40	7·88	19	14	59·6	1	0·87
877	10 Cephei ν	4·5	...	21	41	55·75	29	26	29·7	1	0·72
878	81 Cygni π^2	4·4	...	21	42	16·98	41	15	16·1	1	0·76
879	14 Pegasi	5·0	...	21	44	26·74	60	23	35·0	4	0·77
880	U Cephei, Var 5... ...	7·0	5	21	44	51·57	20	24	52·2	5	0·77
881	16 Pegasi	5·0	...	21	47	30·64	64	38	52·8	2	0·75
882	30 Aquarii	5·6	...	21	56	51·37	97	6	39·2	5	0·76
883	16 Cephei	5·2	...	21	57	30·04	17	24	2·2	5	0·81
884	... ...	10·1	3	21	57	50·35	92	31	9·4	3	0·76
885	34 Aquarii α	3·2	...	21	59	30·99	90	54	43·0	5	0·83
886	18 Cephei	5·4	...	22	0	13·82	27	28	23·9	3	0·84
887	24 Pegasi ι	4·0	...	22	1	19·87	65	15	0·5	1	0·81
888	35 Aquarii	5·8	...	22	2	17·16	109	6	56·6	2	0·73
889	15 Piscis Australis ...	5·6	...	22	2	59·87	123	8	48·9	1	0·80
890	27 Pegasi π^1	5·7	...	22	3	49·23	57	25	23·9	1	0·80
891	29 Pegasi π^2	4·4	...	22	4	34·03	57	25	11·5	3	0·78
892	Radcliffe 5591	5·5	1	22	6	25·30	39	46	43·9	1	0·81
893	21 Cephei ζ	3·5	...	22	6	37·27	32	23	59·3	1	0·79
894	24 Cephei	5·0	...	22	7	27·65	18	15	34·0	3	0·82
895	μ^1 Gruis	5·1	1	22	8	15·52	131	57	12·0	1	0·86
896	43 Aquarii θ	4·3	...	22	10	23·69	98	23	23·2	4	0·79
897	23 Cephei ϵ	4·2	...	22	10	32·94	33	33	52·7	2	0·87
898	1 Lacertæ	4·1	...	22	10	39·23	52	51	30·5	1	0·86
899	46 Aquarii ρ	5·4	...	22	13	46·78	98	25	59·0	1	0·90
900	30 Pegasi	5·2	...	22	14	19·28	84	49	20·7	1	0·90
901	δ Tucanæ	5·0	1	22	18	38·29	155	35	11·8	1	0·86
902	3 Lacertæ β	4·5	...	22	18	45·98	38	22	52·6	1	0·91
903	4 Lacertæ	4·6	...	22	19	34·36	41	8	29·6	3	0·87
904	R. P. L. 150	5·5	...	22	22	45·42	4	30	25·3	17	0·57
905	B. F. 3091	5·8	2	22	28	53·63	114	37	16·0	2	0·90
906	62 Aquarii η	4·2	...	22	29	5·18	90	44	45·3	9	0·82
907	31 Cephei	5·3	...	22	32	45·56	16	59	~~14·7~~ 23·0	2	0·87
908	30 Cephei	5·2	...	22	34	19·92	27	2	54·8	2	0·88
909	42 Pegasi ζ	3·6	...	22	35	22·55	79	48	17·8	10	0·81
910	43 Pegasi o	4·9	...	22	36	1·96	61	19	43·6	2	0·88

884.—Comparison star for Encke's comet in 1862.

904.—Groombridge 3820.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
876	11 Cephei	+ 0·8782	− 0·0333	+ 0·021	− 16·434	− 0·066	− 0·08	2856
877	10 Cephei ν	+ 1·7301	+ 0·0019	− 0·000	− 16·524	− 0·136	+ 0·01	2857
878	81 Cygni π^2	+ 2·2106	+ 0·0086	+ 0·001	− 16·541	− 0·175	+ 0·02	2855
879	14 Pegasi	+ 2·6487	+ 0·0062	+ 0·001	− 16·647	− 0·209	+ 0·03	2859
880	U Cephei, Var. 5 ...	+ 1·0748	− 0·0232	...	− 16·667	− 0·080	...	...
881	16 Pegasi	+ 2·7261	+ 0·0052	− 0·001	− 16·795	− 0·210	+ 0·00	2364
882	30 Aquarii	+ 3·1576	− 0·0072	+ 0·001	− 17·229	− 0·229	− 0·01	2882
883	16 Cephei	+ 0·8994	− 0·0366	− 0·014	− 17·258	− 0·060	+ 0·18	2900
884	... ...	+ 3·1021	− 0·0050	...	− 17·273	− 0·233	...	...
885	34 Aquarii α	+ 3·0830	− 0·0041	− 0·001	− 17·347	− 0·219	− 0·00	2890
886	18 Cephei	+ 1·7890	+ 0·0050	+ 0·001	− 17·378	− 0·123	− 0·02	2906
887	24 Pegasi ι	+ 2·7672	+ 0·0060	+ 0·021	− 17·426	− 0·193	− 0·02	2899
888	35 Aquarii	+ 3·2999	− 0·0142	− 0·002	− 17·467	− 0·232	− 0·00	2898
889	15 Piscis Australis ...	+ 3·4988	− 0·0256	+ 0·035	− 17·497	− 0·242	− 0·02	2901
890	27 Pegasi π^1	+ 2·6577	+ 0·0087	− 0·005	− 17·582	− 0·180	+ 0·06	2915
891	29 Pegasi π^2	+ 2·6599	+ 0·0089	− 0·002	− 17·564	− 0·179	+ 0·01	2917
892	Radcliffe 5591 ...	+ 2·3086	+ 0·0126	...	− 17·642	− 0·152	...	...
893	21 Cephei ζ	+ 2·0720	+ 0·0113	− 0·002	− 17·650	− 0·136	+ 0·01	2925
894	24 Cephei	+ 1·1614	− 0·0217	+ 0·002	− 17·684	− 0·072	+ 0·01	2932
895	μ^1 Gruis	+ 3·6352	− 0·0361	− 0·001	− 17·717	− 0·241	− 0·03	Stone
896	43 Aquarii θ	+ 3·1630	− 0·0075	+ 0·006	− 17·804	− 0·205	+ 0·02	2929
897	23 Cephei ϵ	+ 2·1462	+ 0·0128	+ 0·054	− 17·808	− 0·136	− 0·03	2937
898	1 Lacertæ	+ 2·6072	+ 0·0108	− 0·000	− 17·814	− 0·167	−,0·01	2933
899	46 Aquarii ρ	+ 3·1609	− 0·0075	− 0·001	− 17·939	− 0·198	− 0·01	2939
900	30 Pegasi	+ 3·0184	− 0·0009	− 0·001	− 17·960	− 0·188	+ 0·01	2941
901	δ Tucanæ	+ 4·3329	− 0·1121	+ 0·006	− 18·124	− 0·263	− 0·03	Stone
902	3 Lacertæ β	+ 2·3504	+ 0·0152	− 0·004	− 18·129	− 0·139	+ 0·20	2956
903	4 Lacertæ	+ 2·4230	+ 0·0151	− 0·003	− 18·159	− 0·142	+ 0·03	2958
904	R. P. L. 150	− 3·9100	− 1·2246	+ 0·052	− 18·275	− 0·243	− 0·04	2993
905	B. F. 3091	+ 3·3095	− 0·0174	...	− 18·490	− 0·179	...	...
906	62 Aquarii η	+ 3·0790	− 0·0031	+ 0·006	− 18·497	− 0·166	+ 0·11	2979
907	31 Cephei	+ 1·4466	− 0·0072	+ 0·042	− 18·619	− 0·070	− 0·02	2994
908	30 Cephei	+ 2·1162	+ 0·0184	− 0·003	− 18·669	− 0·105	+ 0·04	2996
909	42 Pegasi ζ	+ 2·9855	+ 0·0023	+ 0·004	− 18·702	− 0·149	+ 0·02	2992
910	43 Pegasi o	+ 2·8104	+ 0·0103	− 0·001	− 18·723	− 0·139	+ 0·03	2999

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
911	η Gruis	5·0	1	22	38	7·97	144	8	27·8	1	0·91
912	46 Pegasi ξ	4·2	...	22	40	35·85	78	27	7·3	1	0·86
913	47 Pegasi λ	4·2	...	22	40	39·52	67	4	32·1	1	0·90
914	Radcliffe 5847	5·6	2	22	44	44·69	34	44	38·5	2	0·88
915	Radcliffe 5864	5·0	2	22	46	37·24	28	57	4·9	2	0·88
916	23 Piscis Australis δ ...	4·4	...	22	49	11·46	123	11	30·3	2	0·88
917	24 Pisc. Aust. α (*Fomalhaut*)	1·3	...	22	50	54·22	120	16	7·3	2	0·84
918	ζ Gruis	5·0	2	22	53	39·99	143	24	28·6	2	0·87
919	π Piscis Australis... ...	5·6	2	22	56	44·49	125	24	30·8	2	0·88
920	54 Pegasi α (*Markab*) ...	2·6	...	22	58	41·00	75	27	3·8	10	0·82
921	Radcliffe 5944	4·7	2	22	58	54·67	23	26	52·1	2	0·91
922	θ Gruis	5·0	1	23	0	0·06	134	10	43·8	1	0·89
923	89 Aquarii c^3	4·9	...	23	3	23·95	113	7	5·9	1	0·89
924	7 Andromedæ	4·7	...	23	6	57·87	41	15	36·2	2	0·87
925	Lacaille 9412	5·9	1	23	9	36·54	152	39	58·2	1	0·86
926	γ Tucanæ	4·3	1	23	10	18·15	148	54	18·1	1	0·87
927	92 Aquarii χ	5·2	...	23	10	31·40	98	23	31·1	2	0·90
928	6 Piscium γ	3·8	...	23	10	50·40	87	23	2·8	6	0·83
929	8 Andromedæ	4·9	...	23	12	5·70	41	39	2·9	1	0·89
930	γ Sculptoris	5·0	1	23	12	13·83	123	11	47·6	1	0·91
931	62 Pegasi τ	4·7	...	23	14	36·09	66	55	38·8	1	0·86
932	98 Aquarii b^1	4·1	...	23	16	33·64	110	46	0·9	2	0·86
933	4 Cassiopeiæ	5·2	...	23	19	25·68	28	23	10·4	1	0·87
934	99 Aquarii b^2	4·4	...	23	19	38·01	111	18	36·6	2	0·90
935	8 Piscium κ	5·0	...	23	20	40·64	89	24	44·1	3	0·86
936	70 Pegasi q	4·6	...	23	22	59·14	77	54	44·4	1	0·87
937	Radcliffe 6092	5·3	2	23	24	24·22	32	7	24·2	2	0·89
938	β Sculptoris	5·2	2	23	26	25·93	128	29	33·3	2	0·86
939	101 Aquarii b^4	4·7	...	23	26	53·39	111	35	21·8	1	0·91
940	R. P. L. 158	5·7	...	23	27	49·11	3	22	1·1	2	0·37
941	ι Phœnicis	5·2	1	23	28	30·58	133	17	22·7	1	0·86
942	16 Andromedæ λ ...	4·0	...	23	31	35·68	44	12	11·2	1	0·85
943	θ Phœnicis—2nd ...	5·7	1	23	32	54·61	137	18	54·1	1	0·90
944	17 Piscium ι	4·3	...	23	33	40·46	85	2	4·7	4	0·90
945	19 Andromedæ κ... ...	4·4	...	23	34	24·08	46	20	28·8	1	0·87

44·44
37·05

940.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
911	η Gruis	+ 3·7190	− 0·0577	− 0·004	− 18·788	− 0·182	0·00	Stone
912	46 Pegasi ξ	+ 2·9799	+ 0·0031	+ 0·013	− 18·868	− 0·140	+ 0·48	3008
913	47 Pegasi λ	+ 2·8804	+ 0·0082	+ 0·003	− 18·865	− 0·135	+ 0·00	3010
914	Radcliffe 5847 ...	+ 2·4503	+ 0·0225	...	− 18·983	− 0·107	...	...
915	Radcliffe 5864 ...	+ 2·3116	+ 0·0241	...	− 19·035	− 0·098	...	...
916	23 Piscis Australis δ..	+ 3·3382	− 0·0238	− 0·001	− 19·104	− 0·140	− 0·09	3029
917	24 Piscis Australis α..	+ 3·3040	− 0·0210	+ 0·023	− 19·150	− 0·135	+ 0·16	3032
918	ζ Gruis	+ 3·5862	− 0·0533	− 0·011	− 19·220	− 0·142	0·00	Stone
919	π Piscis Australis ...	+ 3·3312	− 0·0255	...	− 19·295	− 0·125	...	...
920	54 Pegasi α	+ 2·9806	+ 0·0056	+ 0·003	− 19·340	− 0·107	+ 0·03	3050
921	Radcliffe 5944 ...	+ 2·2603	+ 0·0301	...	− 19·346	− 0·079	...	...
922	θ Gruis	+ 3·4085	− 0·0356	− 0·003	− 19·372	− 0·121	+ 0·11	Stone
923	89 Aquarii c^2 ...	+ 3·2118	− 0·0147	− 0·005	− 19·445	− 0·107	+ 0·01	3065
924	7 Andromedæ ...	+ 2·7227	+ 0·0247	+ 0·009	− 19·519	− 0·088	− 0·09	3075
925	Lacaille 9412 ...	+ 3·6364	− 0·0783	+ 0·017	− 19·571	− 0·108	+ 0·04	Stone
926	γ Tucanæ	+ 3·5492	− 0·0645	− 0·012	− 19·584	− 0·104	− 0·04	Stone
927	92 Aquarii χ... ...	+ 3·1145	− 0·0054	− 0·003	− 19·589	− 0·090	+ 0·00	3081
928	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·595	− 0·087	− 0·02	3082
929	8 Andromedæ ...	+ 2·7604	+ 0·0255	+ 0·002	− 19·617	− 0·045	+ 0·01	3089
930	γ Sculptoris	+ 3·2532	− 0·0223	0·000	− 19·620	− 0·091	+ 0·07	Stone
931	62 Pegasi τ	+ 2·9602	+ 0·0109	+ 0·001	− 19·661	− 0·077	+ 0·01	3096
932	98 Aquarii b^1 ...	+ 3·1677	− 0·0124	− 0·009	− 19·694	− 0·079	+ 0·09	3105
933	4 Cassiopeiæ ..	+ 2·6366	+ 0·0398	+ 0·001	− 19·741	− 0·060	+ 0·02	3115
934	99 Aquarii b^2 ...	+ 3·1636	− 0·0125	− 0·005	− 19·744	− 0·073	+ 0·05	3113
935	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·760	− 0·069	+ 0·10	3116
936	70 Pegasi q	+ 3·0262	+ 0·0059	+ 0·001	− 19·793	− 0·063	− 0·03	3122
937	Radcliffe 6092 ...	+ 2·7428	+ 0·0369	...	− 19·813	− 0·053	...	...
938	β Sculptoris	+ 3·2274	− 0·0260	+ 0·004	− 19·840	− 0·060	− 0·02	Stone
939	101 Aquarii b^4 ...	+ 3·1484	− 0·0122	− 0·004	− 19·846	− 0·057	− 0·01	3130
940	R. P. L. 158	− 0·1030	− 0·5342	+ 0·084	− 19·857	+ 0·011	− 0·00	3147
941	ι Phœnicis	+ 3·2448	− 0·0310	− 0·001	− 19·865	− 0·056	− 0·03	Stone
942	16 Andromedæ λ ...	+ 2·9023	+ 0·0265	+ 0·016	− 19·900	− 0·044	+ 0·43	3143
943	θ Phœnicis—2nd. ...	+ 3·2432	− 0·0354	− 0·017	− 19·914	− 0·047	0·00	Stone
944	17 Piscium ι	+ 3·0589	+ 0·0030	+ 0·023	− 19·922	− 0·042	+ 0·44	3148
945	19 Andromedæ κ ...	+ 2·9301	+ 0·0262	+ 0·007	− 19·929	− 0·042	+ 0·02	3149

Mean Positions of Stars for 1878, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
946	103 Aquarii A^1	5·7	...	23	35	14·82	108	42	5·3	1	0·93
947	104 Aquarii A^2	4·8	...	23	35	25·69	108	29	34·0	1	0·87
948	105 Aquarii ω^2	4·7	...	23	36	23·58	105	13	9·4	2	0·88
949	78 Pegasi	4·9	...	23	37	51·29	61	18	51·2	1	0·87
950	20 Andromedæ ψ	5·0	...	23	39	59·51	44	15	25·4	1	0·89
951	5 Cassiopeiæ τ	5·2	...	23	41	5·74	32	1	40·0	1	0·93
952	δ Sculptoris	4·6	...	23	42	34·09	118	48	17·1	1	0·91
953	Radcliffe 6215	7·0	3	23	48	55·29	16	16	7·6	3	0·86
954	η Tucanæ	5·1	3	23	51	10·23	154	58	32·6	3	0·89
955	27 Piscium	5·0	...	23	52	25·64	94	13	57·3	2	0·89
956	π Phœnicis	5·5	2	23	52	36·06	143	25	38·2	2	0·90
957	28 Piscium ω	4·2	...	23	53	2·76	83	48	41·8	2	0·91
958	ϵ Tucanæ	5·0	1	23	53	34·03	156	15	22·3	1	0·90
959	ζ Sculptoris	6·0	1	23	56	4·52	120	24	0·7	1	0·87
960	Radcliffe 6297	6·0	1	23	58	48·53	29	21	56·0	1	0·87

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
946	103 Aquarii A^1 ...	+ 3·1210	− 0·0099	− 0·004	− 19·937	− 0·040	+ 0·08	3150
947	104 Aquarii A^2 ...	+ 3·1201	− 0·0097	+ 0·001	− 19·939	− 0·040	− 0·02	3151
948	105 Aquarii a^2 ...	+ 3·1097	− 0·0077	+ 0·005	− 19·948	− 0·038	+ 0·06	3154
949	78 Pegasi	+ 3·0017	+ 0·0162	+ 0·005	− 19·961	− 0·034	+ 0·03	3160
950	20 Andromedæ ψ ...	+ 2·9527	+ 0·0290	+ 0·001	− 19·978	− 0·029	+ 0·02	3163
951	5 Cassiopeiæ τ ...	+ 2·8961	+ 0·0430	+ 0·007	− 19·986	− 0·026	− 0·05	3164
952	δ Sculptoris	+ 3·1281	− 0·0161	+ 0·009	− 19·996	− 0·026	+ 0·10	Stone
953	Radcliffe 6215 ...	+ 2·8510	∓ 0·0886	...	− 20·031	− 0·011	...	...
954	η Tucanæ	+ 3·1826	− 0·0672	+ 0·015	− 20·039	− 0·009	+ 0·02	Stone
955	27 Piscium	+ 3·0755	− 0·0007	− 0·002	− 20·043	− 0·006	+ 0·01	3180
956	π Phœnicis	+ 3·1304	− 0·0403	...	− 20·044	− 0·006	...	...
957	28 Piscium ω ...	+ 3·0678	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191
958	ϵ Tucanæ	+ 3·1576	− 0·0703	+ 0·003	− 20·046	− 0·004	− 0·03	Stone
959	ζ Sculptoris	+ 3·0857	− 0·0160	...	− 20·051	+ 0·001	...	...
960	Radcliffe 6297 ...	+ 3·0599	+ 0·0544	...	− 20·054	+ 0·006	...	...