
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1882

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	21 Androm. α (<i>Alpherat</i>)..	2.1	...	0	2	17.35	61	33	39.2	8	0.89
2	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	7	9.61	75	28	20.9	4	0.86
3	8 Ceti ϵ	3.6	...	0	18	24.85	99	28	42.0	7	0.89
4	... ..	8.0	1	0	19	37.22	148	55	14.0	1	0.85
5	... ..	8.0	5	0	20	39.06	149	26	56.7	5	0.90
6	R. P. L. 4	8.0	...	0	24	39.71	4	19	58.5	20	0.60
7	... ..	9.0	3	0	27	39.20	131	22	36.3	3	0.86
8	... ..	7.5	4	0	31	2.65	148	51	33.6	4	0.95
9	Taylor 181	6.4	...	0	34	14.23	135	26	45.6	4	0.93
10	... ..	8.0	5	0	34	30.24	128	13	43.7	5	0.85
11	Taylor 194... ..	7.0	...	0	36	19.77	133	46	20.9	5	0.88
12	24 Cassiopeiae η —1st	4.4	...	0	41	57.90	32	48	36.5	2	0.86
13	24 Cassiopeiae η —2nd		...	0	41	58.13	32	48	44.6	2	0.86
14	63 Piscium δ	4.6	...	0	42	38.56	83	3	26.9	7	0.92
15	... ..	8.0	5	0	49	50.82	128	9	35.5	5	0.85
16	R. P. L. 10	6.6	...	0	51	13.87	1	36	35.3	2	0.97
17	... ..	8.8	...	0	52	5.61	131	53	37.0	4	0.92
18	2 Ursae Minoris	4.5	...	0	52	50.18	4	22	38.0	5	0.41
19	... ..	9.0	5	0	56	10.15	146	47	41.8	5	0.85
20	R. P. L. 14	6.2	...	0	56	29.77	3	29	0.8	14	0.63
21	48 Andromedae β	2.2	...	1	3	7.52	55	0	20.6	9	0.95
22	... ..	8.5	5	1	4	50.15	134	42	17.5	5	0.90
23	... ..	9.0	3	1	9	1.46	145	52	6.3	4	0.91
24	... ..	8.0	3	1	10	4.95	124	39	18.0	3	0.92
25	... ..	7.0	1	1	13	5.04	130	43	^{32.3} 15.8	1	0.94
26	R. P. L. 18	7.9	...	1	18	23.00	2	3	11.1	14	0.64
27	1 Ursae Min. α (<i>Polaris</i>)...	2.2	...	1	15	28.78	1	19	12.6	3	0.36
28	45 Ceti θ^1	3.8	...	1	18	7.50	98	47	34.9	4	0.73
29	... ..	9.3	...	1	19	33.53	123	28	13.2	1	0.01
30	... ..	9.7	2	1	20	4.46	122	56	38.4	2	0.89
31	... ..	9.0	2	1	21	2.65	123	9	52.0	4	0.73
32	... ..	9.0	...	1	23	2.34	123	37	38.6	1	0.02
33	... ..	8.0	3	1	23	45.22	131	15	30.9	4	0.43
34	99 Piscium η	3.7	...	1	25	10.10	75	15	47.4	3	0.32
35	... ..	7.6	2	1	27	12.17	132	6	50.5	5	0.94

16.—Groombridge 144.

20.—Groombridge 195.

26.—Carrington 133.

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.	
1	21 Andromedæ α ...	+ 3.0796	+ 0.0182	+ 0.010	- 20.053	+ 0.013	+ 0.16	3215
2	88 Pegasi γ ...	+ 3.0831	+ 0.0100	- 0.001	- 20.044	+ 0.022	+ 0.01	1
3	8 Ceti ϵ ...	+ 3.0593	- 0.0023	- 0.003	- 20.020	+ 0.034	+ 0.03	14
4	... ..	+ 2.8827	- 0.0404	...	- 19.980	+ 0.044	...	...
5	... ..	+ 2.8686	- 0.0408	...	- 19.973	+ 0.046	...	...
6	R. P. L. 4 ...	+ 4.9672	+ 0.8779	...	- 19.936	+ 0.087	...	...
7	... ..	+ 2.9306	- 0.0203	...	- 19.908	+ 0.060	...	...
8	... ..	+ 2.7735	- 0.0360	...	- 19.871	+ 0.063	...	...
9	Taylor 181 ...	+ 2.8712	- 0.0223	...	- 19.830	+ 0.071	...	...
10	... ..	+ 2.9144	- 0.0169	...	- 19.828	+ 0.072	...	...
11	Taylor 194 ...	+ 2.8702	- 0.0206	...	- 19.803	+ 0.075	...	...
12	24 Cassiopeiæ η -1st.	+ 3.4498	+ 0.0606	+ 0.135	- 19.719	+ 0.099	+ 0.48	79
13	24 Cassiopeiæ η -2nd	+ 3.4499	+ 0.0606	+ 0.135	- 19.718	+ 0.099	+ 0.48	79
14	63 Piscium δ ...	+ 3.1023	+ 0.0079	+ 0.004	- 19.709	+ 0.091	+ 0.04	85
15	... ..	+ 2.8457	- 0.0149	...	- 19.582	+ 0.097	...	...
16	R. P. L. 10 ...	+ 13.6179	+ 8.1582	+ 0.061	- 19.557	+ 0.448	+ 0.03	Main
17	... ..	+ 2.8020	- 0.0167	...	- 19.538	+ 0.099	...	...
18	2 Ursæ Minoris ...	+ 7.0628	+ 1.3702	+ 0.068	- 19.524	+ 0.243	+ 0.01	92
19	... ..	+ 2.5766	- 0.0249	...	- 19.455	+ 0.099	...	...
20	R. P. L. 14 ...	+ 8.4318	+ 2.1391	+ 0.054	- 19.448	+ 0.308	+ 0.02	95
21	43 Andromedæ β ...	+ 3.3269	+ 0.0286	+ 0.014	- 19.298	+ 0.139	+ 0.08	140
22	... ..	+ 2.7030	- 0.0161	...	- 19.255	+ 0.118	...	...
23	... ..	+ 2.4873	- 0.0203	...	- 19.151	+ 0.115	...	...
24	... ..	+ 2.7941	- 0.0105	...	- 19.124	+ 0.130	...	...
25	... ..	+ 2.7115	- 0.0128	...	- 19.043	+ 0.131	...	...
26	R. P. L. 18 ...	+ 14.8101	+ 6.8304	...	- 19.035	+ 0.688	...	...
27	1 Ursæ Minoris α ...	+ 21.8338	+ 16.2032	+ 0.108	- 18.976	+ 1.038	+ 0.00	102
28	45 Ceti θ^1 ...	+ 3.0032	+ 0.0018	- 0.007	- 18.900	+ 0.154	+ 0.20	184
29	... ..	+ 2.7716	- 0.0088	...	- 18.858	+ 0.145	...	...
30	... ..	+ 2.7758	- 0.0086	...	- 18.843	+ 0.146	...	...
31	... ..	+ 2.7698	- 0.0085	...	- 18.813	+ 0.147	...	...
32	... ..	+ 2.7572	- 0.0085	...	- 18.752	+ 0.151	...	...
33	... ..	+ 2.6532	- 0.0114	...	- 18.730	+ 0.146	...	...
34	99 Piscium η ...	+ 3.2000	+ 0.0141	- 0.000	- 18.685	+ 0.177	+ 0.00	203
35	... ..	+ 2.6235	- 0.0113	...	- 18.620	+ 0.150	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
36	... ..	7.8	3	1	31	21.09	150	15	37.9	5	0.96
37	α Eridani (<i>Achernar</i>)	1.0	...	1	33	19.04	147	50	14.8	5	0.89
38	.. ..	7.0	1	1	33	25.11	138	32	8.9	1	0.99
39	110 Piscium σ	4.4	...	1	39	9.76	81	26	13.0	19	0.66
40	... ..	8.3	...	1	44	23.72	134	49	44.1	5	0.93
41	55 Ceti ζ	3.9	...	1	45	38.19	100	55	8.1	5	0.94
42	45 Cassiopeiæ ϵ	3.8	...	1	45	54.66	26	54	43.7	4	0.94
43	Stone 762	7.0	1	1	50	40.17	126	49	25.0	2	0.02
44	... ..	7.6	2	1	52	12.17	128	4	22.9	3	0.96
45	... ..	7.7	5	1	54	33.04	135	19	1.9	5	0.93
46	... ..	9.0	2	1	55	44.06	87	41	34.5	3	0.01
47	Stone 815	7.0	3	1	57	36.39	131	5	20.6	4	0.95
48	Stone 824	7.0	...	1	59	38.17	134	4	26.5	2	0.97
49	13 Arietis α	2.0	...	2	0	31.86	67	5	46.2	2	0.99
50	Stone 837	7.0	...	2	1	36.44	127	40	54.3	1	0.01
51	... ..	7.7	4	2	4	0.79	135	3	7.4	5	0.94
52	... ..	8.0	1	2	6	49.84	132	25	30.8	1	0.01
53	... ..	7.7	3	2	8	2.86	131	49	10.8	3	0.99
54	W. B. E. II. 104	8.8	2	2	8	59.88	86	41	51.2	2	0.01
55	Taylor 750	6.1	...	2	9	45.48	131	43	4.0	1	0.01
56	W. B. E. II. 126	8.0	1	2	10	23.30	86	36	49.6	1	0.02
57	67 Ceti	5.5	...	2	11	5.83	96	58	0.4	13	0.66
58	Stone 914	6.7	...	2	12	19.87	126	31	54.2	3	0.03
59	W. B. E. II. 177	8.0	2	2	13	21.76	87	43	24.2	3	0.01
60	... ..	7.3	2	2	14	26.61	132	33	40.3	3	0.98
61	70 Ceti	5.6	...	2	16	11.76	91	25	23.8	5	0.93
62	Stone 938	7.2	...	2	16	39.06	147	19	29.8	1	0.01
63	... ..	8.2	...	2	19	49.70	134	51	44.9	3	0.99
64	73 Ceti ξ^3	4.4	...	2	21	53.16	82	4	11.9	6	0.02
65	... ..	9.0	1	2	22	23.65	85	23	5.1	2	0.01
66	... ..	7.6	3	2	23	15.79	135	34	33.4	5	0.94
67	Stone 994	7.0	3	2	24	28.55	126	28	5.2	4	0.95
68	R. P. L. 26	8.0	...	2	27	14.04	3	28	7.1	10	0.57
69	... ..	7.7	2	2	28	14.88	149	23	37.2	2	0.98
70	Stone 1038	7.1	4	2	30	25.98	132	37	45.4	5	0.95

54—56—65.—Comparison stars for Camilla in 1881.
61.—Comparison star for Comet in 1882.

59.—Comparison star for Sylvia in 1881.
66.—Carrington 352.

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.	
36	...	+ 2.1641	- 0.0134	...	- 18.482	+ 0.130	...	...
37	α Eridani	+ 2.2304	- 0.0128	+ 0.008	- 18.415	+ 0.137	+ 0.07	Stone
38	...	+ 2.4726	- 0.0120	...	- 18.411	+ 0.151	...	...
39	110 Piscium σ	+ 3.1568	+ 0.0111	+ 0.003	- 18.206	+ 0.200	- 0.06	232
40	...	+ 2.4876	- 0.0093	...	- 18.010	+ 0.167	...	...
41	55 Ceti ζ	+ 2.9577	+ 0.0023	+ 0.000	- 17.961	+ 0.199	+ 0.03	247
42	45 Cassiopeia ϵ	+ 4.2468	+ 0.0093	+ 0.004	- 17.950	+ 0.283	+ 0.02	239
43	Stone 702	+ 2.6070	- 0.0064	...	- 17.754	+ 0.184	...	...
44	...	+ 2.5798	- 0.0066	...	- 17.699	+ 0.185	...	...
45	...	+ 2.4245	- 0.0077	...	- 17.601	+ 0.177	...	...
46	...	+ 3.0984	+ 0.0084	...	- 17.552	+ 0.226	...	...
47	Stone 815	+ 2.4099	- 0.0066	...	- 17.471	+ 0.188	...	...
48	Stone 824	+ 2.4269	- 0.0067	...	- 17.383	+ 0.183	...	...
49	13 Arietis α	+ 3.3559	+ 0.0203	+ 0.013	- 17.344	+ 0.252	+ 0.13	287
50	Stone 837	+ 2.5497	- 0.0054	...	- 17.296	+ 0.195	...	...
51	...	+ 2.3825	- 0.0062	...	- 17.189	+ 0.185	...	...
52	...	+ 2.4301	- 0.0055	...	- 17.059	+ 0.193	...	...
53	...	+ 2.4383	- 0.0053	...	- 17.004	+ 0.195	...	...
54	W. B. E. II. 104	+ 3.1135	+ 0.0093	...	- 16.961	+ 0.249	...	...
55	Taylor 750	+ 2.4330	- 0.0051	...	- 16.924	+ 0.197	...	...
56	W. B. E. II. 126	+ 3.1149	+ 0.0093	...	- 16.895	+ 0.251	...	...
57	67 Ceti	+ 2.9839	+ 0.0049	+ 0.004	- 16.861	+ 0.242	+ 0.11	321
58	Stone 914	+ 2.5317	- 0.0040	...	- 16.803	+ 0.208	...	...
59	W. B. E. II. 177	+ 3.1015	+ 0.0089	...	- 16.753	+ 0.255	...	...
60	...	+ 2.3927	- 0.0046	...	- 16.701	+ 0.200	...	...
61	70 Ceti	+ 3.0537	+ 0.0073	- 0.003	- 16.616	+ 0.256	+ 0.05	335
62	Stone 938	+ 1.9019	- 0.0008	...	- 16.594	+ 0.163	...	...
63	...	+ 2.3100	- 0.0040	...	- 16.436	+ 0.200	...	...
64	73 Ceti ξ^a	+ 3.1804	+ 0.0117	+ 0.001	- 16.333	+ 0.276	+ 0.00	347
65	...	+ 3.1351	+ 0.0101	...	- 16.307	+ 0.273	...	...
66	...	+ 2.2741	- 0.0035	...	- 16.262	+ 0.201	...	...
67	Stone 994	+ 2.4899	- 0.0028	...	- 16.200	+ 0.222	...	...
68	R. P. L. 26	+ 16.2875	+ 3.7907	...	- 16.056	+ 1.430
69	...	+ 2.7103	+ 0.0047	...	- 16.003	+ 0.157
70	Stone 1038	+ 2.3213	- 0.0027	...	- 15.886	+ 0.213

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Number.	Star.	Magnitnde.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
71	.. .. .	7.5	5	2	32	40.62	131	15	26.1	5	0.93
72	Stone 1073	8.0	...	2	34	53.97	143	27	42.5	4	0.01
73	86 Ceti γ^3	3.6	...	2	37	11.20	87	15	45.3	9	0.04
74	... .. .	9.0	...	2	37	29.22	136	6	27.6	2	0.97
75	... .. .	7.7	3	2	42	47.63	149	53	23.0	4	0.93
76	43 Arietis σ	5.5	...	2	44	58.66	75	24	19.2	28	0.33
77	... .. .	7.5	2	2	47	0.25	133	19	7.6	2	0.98
78	3 Eridani η	4.0	...	2	50	39.75	99	22	7.9	4	0.04
79	Stone 1203...	6.6	...	2	50	57.57	146	21	42.7	1	0.96
80	... .. .	8.5	...	2	52	41.77	137	12	0.8	5	0.02
81	Taylor 1024	7.4	...	2	55	44.91	132	20	35.1	2	0.99
82	92 Ceti α (<i>Menkar</i>)	2.7	...	2	56	6.71	86	22	28.7	4	0.04
83	... .. .	8.5	...	2	57	39.59	132	18	7.6	1	0.97
84	Stone 1264	8.0	...	2	59	11.50	134	30	58.4	2	0.97
85	G. C. Z. II. 1803	7.5	1	2	59	31.98	130	34	6.1	1	0.96
86	Stone 1279	7.5	...	3	1	16.79	127	47	51.1	2	0.02
87	... .. .	7.0	1	3	1	17.77	150	25	34.6	1	0.03
88	... .. .	7.0	2	3	3	32.09	129	45	7.2	3	0.03
89	R. P. L. 33	5.8	...	3	4	36.14	5	30	41.2	5	0.39
90	57 Arietis δ	4.5	...	3	4	52.88	70	43	11.8	1	0.04
91	... .. .	7.3	4	3	8	28.19	127	24	13.6	4	0.02
92	Stone 1342	7.0	2	3	9	48.48	130	41	46.1	3	0.99
93	Taylor 1113	6.7	...	3	11	55.32	126	7	35.9	4	0.97
94	Stone 1364	7.0	...	3	12	11.86	149	57	0.9	3	0.02
95	... .. .	8.0	2	3	12	14.85	126	8	52.7	2	0.94
96	33 Persei α	1.9	...	3	15	54.18	40	33	36.4	1	0.95
97	... .. .	7.0	2	3	18	15.41	126	59	57.4	3	0.03
98	1 Tauri σ , Var. 5	Var.	...	3	18	27.88	81	23	14.7	6	0.97
99	... .. .	7.0	...	3	19	8.27	134	39	11.0	1	0.01
100	Stone 1414	7.0	...	3	19	14.85	130	29	41.9	2	0.99
101	.. .. .	8.0	3	3	20	20.77	149	21	14.2	3	0.05
102	... .. .	8.0	2	3	20	58.16	149	24	38.9	4	0.06
103	χ^1 Fornacis	6.2	...	3	21	22.20	126	20	7.0	5	0.05
104	Stone 1430	7.0	...	3	21	25.45	126	22	23.1	4	0.04
105	7.7	1	3	26	28.22	135	8	15.0	1	0.97

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Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	...	+ 2'3475	- 0'0024	...	- 15'767	+ 0'218	...	...
72	Stone 1073	+ 1'9437	+ 0'0004	...	- 15'646	+ 0'184	...	...
73	86 Ceti γ^3	+ 3'1129	+ 0'0094	- 0'011	- 15'519	+ 0'294	+ 0'16	388
74	...	+ 2'1908	- 0'0014	...	- 15'502	+ 0'209	...	...
75	...	+ 1'5691	+ 0'0081	...	- 15'204	+ 0'156	...	...
76	43 Arietis σ	+ 3'3019	+ 0'0150	- 0'000	- 15'078	+ 0'323	+ 0'04	400
77	...	+ 2'2328	- 0'0008	...	- 14'961	+ 0'223	...	...
78	3 Eridani η	+ 2'9231	+ 0'0052	+ 0'004	- 14'746	+ 0'294	+ 0'22	413
79	Stone 1208	+ 1'7087	+ 0'0052	...	- 14'729	+ 0'175	...	...
80	..	+ 2'0845	+ 0'0004	...	- 14'613	+ 0'214	...	...
81	Taylor 1024	+ 2'2270	0'0000	...	- 14'441	+ 0'233	...	...
82	92 Ceti α	+ 3'1312	+ 0'0098	- 0'003	- 14'419	+ 0'323	+ 0'07	428
83	...	+ 2'2204	+ 0'0001	...	- 14'324	+ 0'232	...	...
84	Stone 1264	+ 2'1461	+ 0'0005	...	- 14'230	+ 0'226	...	...
85	G. C. Z. II. 1603	+ 2'2646	+ 0'0003	...	- 14'208	+ 0'239	...	...
86	Stone 1279	+ 2'3350	+ 0'0002	...	- 14'101	+ 0'248	...	...
87	...	+ 1'3970	+ 0'0124	...	- 14'009	+ 0'151	...	...
88	...	+ 2'2740	+ 0'0004	...	- 13'960	+ 0'244	...	...
89	R. P. I. 33	+ 13'0645	+ 1'6135	+ 0'044	- 13'893	+ 1'379	+ 0'12	Gr.
90	57 Arietis δ	+ 3'4100	+ 0'0171	+ 0'010	- 13'875	+ 0'364	- 0'01	446
91	...	+ 2'3232	+ 0'0007	...	- 13'647	+ 0'254	...	...
92	Stone 1342	+ 2'2253	+ 0'0010	...	- 13'561	+ 0'245	...	...
93	Taylor 1118	+ 2'3474	+ 0'0009	...	- 13'424	+ 0'260	...	...
94	Stone 1364	+ 1'3536	+ 0'0132	...	- 13'406	+ 0'153	...	...
95	...	+ 2'3459	+ 0'0009	...	- 13'403	+ 0'260	...	...
96	33 Persei α	+ 4'2507	+ 0'0483	+ 0'002	- 13'163	+ 0'472	+ 0'03	464
97	...	+ 2'3056	+ 0'0013	...	- 13'007	+ 0'262	...	...
98	1 Tauri ϵ	+ 3'2266	+ 0'0115	- 0'005	- 12'993	+ 0'364	+ 0'07	477
99	...	+ 2'0637	+ 0'0019	...	- 12'948	+ 0'241	...	...
100	Stone 1414	+ 2'2002	+ 0'0016	...	- 12'942	+ 0'251	...	...
101	...	+ 1'3416	+ 0'0131	...	- 12'868	+ 0'156	...	...
102	...	+ 1'3337	+ 0'0132	...	- 12'825	+ 0'155	...	...
103	χ^1 Fornacis	+ 2'3153	+ 0'0015	...	- 12'798	+ 0'265	...	...
104	Stone 1430	+ 2'3141	+ 0'0015	...	- 12'795	+ 0'265	...	...
105	...	+ 2'0193	+ 0'0028	...	- 12'451	+ 0'236	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
106	... ..	7.5	4	3	27	12.79	126	6	24.0	4	0.02
107	18 Eridani ϵ	3.7	...	3	27	22.28	99	51	32.1	11	0.32
108	R. P. L. 34	5.9	...	3	28	0.02	3	43	41.1	8	0.96
109	... ..	8.0	2	3	29	5.39	143	29	55.6	2	0.02
110	... ..	7.1	3	3	31	56.58	125	10	50.5	4	0.02
111	Stone 1522	7.8	...	3	34	37.68	136	37	35.5	3	0.99
112	... ..	8.0	2	3	34	56.48	124	22	12.8	4	0.05
113	Stone 1541	7.7	...	3	36	51.45	146	31	46.3	3	0.07
114	W. B. N. III. 803 ..	9.0	5	3	37	31.20	69	52	20.8	5	0.05
115	Stone 1550	8.0	...	3	37	39.32	146	55	58.2	3	0.04
116	Stone 1553	8.8	...	3	38	5.37	146	27	40.9	5	0.03
117	25 Tauri η (<i>Alcyone</i>)	3.0	...	3	40	28.19	66	15	40.6	3	0.67
118	Stone 1608	6.9	...	3	43	59.17	141	7 ⁶	1.9 ^{35.6}	2	0.01
119	... ..	8.0	1	3	44	16.10	136	26	58.3	1	0.98
120	Stone 1620	8.0	...	3	45	10.46	147	59	38.1	3	0.03
121	... ..	8.0	2	3	45	29.76	124	23	9.7	2	0.02
122	... ..	8.0	5	3	47	48.45	124	42	58.0	5	0.06
123	... ..	7.5	4	3	52	19.85	148	4	6.7	4	0.03
124	34 Eridani γ^1	3.0	...	3	52	31.40	103	50	45.5	7	0.07
125	... ..	8.0	4	3	53	25.81	124	51	1.4	3	0.01
126	Stone 1710	6.7	...	3	57	31.53	124	48	40.5	3	0.02
127	37 Tauri A ¹	4.4	...	3	57	43.17	68	14	30.4	4	0.09
128	... ..	8.0	2	3	59	15.10	143	56	48.3	5	0.07
129	... ..	8.0	3	3	59	17.66	128	55	42.7	3	0.01
130	R. P. L. 35	6.7	...	3	59	50.75	4	45	28.4	13	0.54
131	... ..	7.0	2	4	0	38.39	131	36	17.4	2	0.01
132	Lacaille 1356	7.8	...	4	0	39.83	143	15	6.3	5	0.05
133	Lacaille 1366	6.9	...	4	3	19.94	127	22	34.9	4	0.03
134	... ..	8.0	4	4	5	9.28	126	57	51.6	3	0.02
135	38 Eridani σ^1	4.1	...	4	6	6.33	97	8	47.0	2	0.08
136	... ..	8.0	4	4	7	29.99	150	36	41.2	4	0.03
137	W. B. N. IV. 145... ..	8.5	1	4	9	48.41	66	57	19.4	5	0.04
138	... ..	7.0	3	4	10	8.24	128	33	35.9	5	0.04
139	... ..	8.8	2	4	10	11.18	128	36	54.1	3	0.04
140	54 Tauri γ	3.9	...	4	13	4.73	74	39	31.3	9	0.18

108.—Groombridge 642.

114—137.—Comparison stars for Ariadne in 1881.

130.—Groombridge 750.

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.	
106	...	+ 2.3060	+ 0.0018	...	- 12.401	+ 0.289	...	...
107	18 Eridani ϵ	+ 2.8897	+ 0.0055	- 0.068	- 12.389	+ 0.336	- 0.01	493
108	R. P. L. 34	+ 19.2400	+ 3.2536	+ 0.136	- 12.346	+ 2.216	+ 0.06	Gr.
109	...	+ 1.3467	+ 0.0126	...	- 12.271	+ 0.160	...	...
110	...	+ 2.3198	+ 0.0020	...	- 12.073	+ 0.275	...	...
111	Stone 1522	+ 1.9325	+ 0.0038	...	- 11.884	+ 0.232	...	...
112	...	+ 2.3353	+ 0.0055	...	- 11.862	+ 0.279	...	...
113	Stone 1541	+ 1.4319	+ 0.0106	...	- 11.727	+ 0.174	...	...
114	W. B. N. III. 803	+ 3.4706	+ 0.0159	...	- 11.679	+ 0.416	...	...
115	Stone 1550	+ 1.4025	+ 0.0111	...	- 11.670	+ 0.174	...	...
116	Stone 1553	+ 1.4298	+ 0.0106	...	- 11.639	+ 0.175	...	...
117	25 Tauri η	+ 3.5546	+ 0.0177	- 0.000	- 11.460	+ 0.430	+ 0.04	521
118	Stone 1608	+ 1.0980	+ 0.0063	...	- 11.214	+ 0.210	...	...
119	...	+ 1.9051	+ 0.0042	...	- 11.195	+ 0.235	...	...
120	Stone 1620	+ 1.2931	+ 0.0129	...	- 11.120	+ 0.162	...	...
121	...	+ 2.3105	+ 0.0025	...	- 11.105	+ 0.286	...	...
122	...	+ 2.2950	+ 0.0025	...	- 10.936	+ 0.285	...	...
123	...	+ 1.2514	+ 0.0133	...	- 10.603	+ 0.160	...	...
124	34 Eridani γ^1	+ 2.7925	+ 0.0047	+ 0.003	- 10.588	+ 0.351	+ 0.11	546
125	...	+ 2.2798	+ 0.0027	...	- 10.521	+ 0.288	...	...
126	Stone 1710	+ 2.2724	+ 0.0029	...	- 10.215	+ 0.289	...	...
127	37 Tauri A ¹	+ 3.5318	+ 0.0153	+ 0.005	- 10.200	+ 0.447	+ 0.06	554
128	...	+ 1.4849	+ 0.0089	...	- 10.084	+ 0.191	...	...
129	...	+ 2.1388	+ 0.0031	...	- 10.081	+ 0.273	...	...
130	R. P. L. 35	+ 16.9813	+ 1.8050	+ 0.002	- 10.030	+ 2.146	- 0.02	750
131	...	+ 2.0425	+ 0.0036	...	- 9.978	+ 0.262	...	...
132	Lacaille 1356	+ 1.5192	+ 0.0085	...	- 9.975	+ 0.196	...	...
133	Lacaille 1366	+ 2.1805	+ 0.0032	...	- 9.773	+ 0.281	...	...
134	...	+ 2.1899	+ 0.0025	...	- 9.633	+ 0.307	...	...
135	38 Eridani σ^1	+ 2.9250	+ 0.0058	- 0.001	- 9.500	+ 0.379	- 0.09	568
136	...	+ 0.9789	+ 0.0173	...	- 9.453	+ 0.130	...	...
137	W. B. N. IV. 145	+ 3.5765	+ 0.0149	...	- 9.277	+ 0.466	...	...
138	...	+ 2.1267	+ 0.0034	...	- 9.249	+ 0.279	...	...
139	...	+ 2.1247	+ 0.0034	...	- 9.248	+ 0.279	...	...
140	54 Tauri γ	+ 3.3999	+ 0.0115	+ 0.007	- 9.020	+ 0.446	+ 0.03	583

108—Proper motions from Greenwich Catalogue, 1880.

Mean Positions of Stars for 1882, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	ψ Horologii—2nd...	8.3	...	4	15	38.50	134	33	35.8	5	0.05
142	... ..	8.0	1	4	16	12.57	125	22	6.3	1	0.01
143	... ..	8.0	...	4	17	5.00	149	1	48.6	5	0.03
144	Taylor 1553	8.3	...	4	20	47.59	134	17	31.4	1	0.98
145	74 Tauri ϵ	3.7	...	4	21	43.53	71	4	56.5	7	0.07
146	Stone 1895	8.5	...	4	22	15.06	128	51	13.2	2	0.01
147	Taylor 1582	6.4	...	4	23	27.19	151	30	24.5	1	0.06
148	Stone 1914	7.8	...	4	24	36.95	143	39	59.0	5	0.08
149	... ..	8.0	4	4	25	8.24	125	32	49.5	4	0.02
150	Taylor 1595	6.9	...	4	26	53.38	131	25	41.1	1	0.99
151	... ..	8.5	3	4	28	10.77	126	35	32.8	4	0.04
152	Stone 1961	8.0	...	4	28	54.35	128	32	1.1	4	0.02
153	Stone 1991	7.3	...	4	32	29.12	135	22	38.1	1	0.98
154	... ..	7.5	4	4	35	35.18	125	52	36.6	4	0.01
155	Lacaille 1566	6.8	...	4	36	4.45	148	26	13.4	1	0.02
156	Taylor 1654	6.7	...	4	36	8.91	141	54	17.5	5	0.07
157	W. B. E. IV. 755	7.1	5	4	36	17.93	75	24	42.3	5	0.03
158	... ..	9.5	4	4	37	22.91	75	40	1.1	5	0.10
159	W. B. E. IV. 794	8.0	5	4	38	3.44	75	35	37.2	5	0.10
160	57 Eridani μ	4.3	...	4	39	36.13	93	28	20.0	6	0.35
161	... ..	7.0	2	4	43	6.10	126	25	14.5	2	0.01
162	... ..	8.1	3	4	44	40.42	149	26	7.8	5	0.03
163	Stone 2096	6.8	...	4	45	15.41	149	20	43.2	5	0.03
164	R. P. L. 37	7.0	...	4	50	6.69	4	12	1.0	8	0.54
165	... ..	9.5	2	4	52	36.42	131	48	39.3	4	0.06
166	... ..	7.2	3	4	54	20.08	131	43	46.7	4	0.03
167	... ..	8.6	4	4	55	27.88	130	3	5.7	4	0.09
168	... ..	7.8	3	4	56	20.70	75	24	18.3	4	0.04
169	... ..	7.2	3	4	59	10.43	131	46	34.4	3	0.02
170	2 Leporis ϵ	3.3	...	5	0	27.81	112	31	50.9	4	0.05
171	67 Eridani β	2.8	...	5	2	2.91	95	14	26.1	5	0.08
172	R. P. L. 39	7.0	...	5	3	53.53	4	26	10.3	2	0.49
173	... ..	8.0	3	5	5	32.72	129	21	15.5	3	0.01
174	19 Orionis β (Rigel)	0.3	...	5	8	51.92	98	20	23.0	1	0.10
175	... ..	7.9	4	5	12	47.67	128	48	25.9	4	0.01

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.	
141	ψ Horologii— <i>2nd</i> ...	+ 1.8900	+ 0.0045	- 0.002	- 8.819	+ 0.251	- 0.08	Stone
142	... ..	+ 2.2190	+ 0.0033	...	- 8.776	+ 0.295	...	...
143	... ..	+ 1.0655	+ 0.0145	...	- 8.706	+ 0.144	...	...
144	Taylor 1553 ..	+ 1.8882	+ 0.0046	...	- 8.412	+ 0.254	...	...
145	74 Tauri ϵ ...	+ 3.4890	+ 0.0120	+ 0.007	- 8.338	+ 0.466	+ 0.03	609
146	Stone 1895 ...	+ 2.0919	+ 0.0036	...	- 8.296	+ 0.282	...	...
147	Taylor 1582 ...	+ 0.8245	+ 0.0181	...	- 8.201	+ 0.113	...	...
148	Stone 1914 ...	+ 1.4097	+ 0.0088	...	- 8.108	+ 0.190	...	...
149	... ..	+ 2.1977	+ 0.0033	...	- 8.066	+ 0.206	...	...
150	Taylor 1595 ...	+ 1.9884	+ 0.0041	...	- 7.918	+ 0.269	...	...
151	... ..	+ 2.1583	+ 0.0035	...	- 7.821	+ 0.293	...	...
152	Stone 1961 ...	+ 2.0906	+ 0.0036	...	- 7.762	+ 0.284	...	...
153	Stone 1991 ...	+ 1.8152	+ 0.0048	...	- 7.473	+ 0.249	...	...
154	... ..	+ 2.1702	+ 0.0035	...	- 7.220	+ 0.298	...	...
155	Lacaille 1566 ...	+ 1.0403	+ 0.0128	...	- 7.181	+ 0.144	...	...
156	Taylor 1654 ...	+ 1.4799	+ 0.0074	...	- 7.174	+ 0.204	...	...
157	W. B. E. IV. 755 ...	+ 3.3974	+ 0.0095	...	- 7.163	+ 0.465	...	...
158	... ..	+ 3.3920	+ 0.0094	...	- 7.074	+ 0.466	...	...
159	W. B. E. IV. 794 ...	+ 3.3941	+ 0.0094	...	- 7.018	+ 0.466	...	...
160	57 Eridani μ ...	+ 2.9962	+ 0.0055	- 0.000	- 6.891	+ 0.413	+ 0.00	657
161	... ..	+ 2.1409	+ 0.0035	...	- 6.603	+ 0.298	...	...
162	... ..	+ 0.9296	+ 0.0133	...	- 6.473	+ 0.131	...	...
163	Stone 2096 ...	+ 0.9355	+ 0.0131	...	- 6.425	+ 0.132	...	...
164	R. P. L. 37 ...	+ 20.4369	+ 1.5002	...	- 6.021	+ 2.845	...	...
165	... ..	+ 1.9279	+ 0.0040	...	- 5.813	+ 0.272	...	...
166	... ..	+ 1.9286	+ 0.0040	...	- 5.668	+ 0.272	...	...
167	... ..	+ 1.9928	+ 0.0038	...	- 5.572	+ 0.281	...	...
168	... ..	+ 3.4072	+ 0.0079	...	- 5.498	+ 0.480	...	...
169	... ..	+ 1.9199	+ 0.0064	...	- 5.260	+ 0.273	...	...
170	2 Leporis ϵ ...	+ 2.5363	+ 0.0033	+ 0.000	- 5.151	+ 0.359	+ 0.07	713
171	67 Eridani β ...	+ 2.9536	+ 0.0045	- 0.007	- 5.017	+ 0.419	+ 0.07	715
172	R. P. L. 39 ...	+ 19.7913	+ 1.1070	...	- 4.861	+ 2.802	...	...
173	... ..	+ 2.0069	+ 0.0036	...	- 4.720	+ 0.286	...	...
174	19 Orionis β ...	+ 2.8812	+ 0.0040	- 0.001	- 4.437	+ 0.412	- 0.01	736
175	... ..	+ 2.0199	+ 0.0035	...	- 4.102	+ 0.290	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>o</i>	<i>'</i>	<i>"</i>		
176	24 Orionis γ	1.9	...	5	18	48.09	88	45	32.8	5	0.07
177	112 Tauri β	1.9	...	5	18	49.95	61	29	38.4	14	0.05
178	R. P. L. 40	6.0	...	5	24	19.00	4	52	3.9	4	0.63
179	34 Orionis δ , Var. 1 ...	Var.	...	5	25	58.72	90	28	15.4	1	0.09
180	11 Leporis α	2.7	...	5	27	31.50	107	54	28.8	3	0.06
181	R. P. L. 41... ..	7.5	...	5	28	55.10	4	45	1.7	11	0.17
182	46 Orionis ϵ	1.8	...	5	30	13.50	91	16	43.1	3	0.09
183	53 Orionis κ	2.2	...	5	42	9.52	99	42	46.3	7	0.08
184	58 Orionis α , Var. 2 (<i>Betal- [geua.]</i>)	Var.	...	5	48	46.99	82	36	59.4	5	0.11
185	13 Geminorum μ	3.2	...	6	15	49.22	67	25	40.6	2	0.05
186	31 Geminorum ξ	3.4	...	6	38	39.98	76	58	42.9	8.	0.16
187	W. B. N. VI. 1280	8.0	3	6	44	10.22	47	14	34.8	5	0.07
188	51 Cephei (<i>Hev.</i>) ... ..	...	...	6	44	46.22	2	46	22.2	10	0.35
189	14 Canis Majoris θ	4.2	...	6	48	42.45	101	53	29.6	5	0.20
190	... ..	10.0	2	6	50	50.41	46	59	59.5	4	0.07
191	W. B. N. VII. 604	7.6	5	7	23	19.83	47	6	49.4	5	0.09
192	10 Can. Min. α (<i>Procyon</i>)..	0.5	...	7	33	7.49	84	28	25.1	4	0.21
193	... ..	9.8	5	7	34	12.66	47	1	34.2	5	0.10
194	R. P. L. 45	7.2	...	7	37	34.07	1	1	18.8	1	0.64
195	7 Argûs ξ	3.4	...	7	44	19.89	114	33	52.2	7	0.23
196	R. P. L. 48	7.4	...	7	46	24.96	3	57	53.8	11	0.29
197	R. P. L. 49	6.7	...	7	43	31.36	5	36	26.0	3	0.69
198	6 Cancri	5.0	...	7	56	16.15	61	52	32.2	5	0.22
199	17 Cancri β	3.8	...	8	10	6.91	80	27	6.7	10	0.25
200	R. P. L. 53	7.7	...	8	20	21.86	4	31	56.8	13	0.36
201	R. P. L. 55... ..	7.5	...	8	31	18.26	5	40	38.2	15	0.42
202	R. P. L. 60... ..	7.0	...	8	50	29.91	5	20	57.5	4	0.73
203	9 Ursæ Majoris ι	3.2	...	8	51	7.32	41	29	46.0	8	0.24
204	76 Cancri κ	5.0	...	9	1	21.34	78	51	28.1	19	0.19
205	R. P. L. 62... ..	8.1	...	9	21	1.54	2	21	14.4	14	0.40
206	14 Leonis σ	3.8	..	9	34	51.11	79	34	16.7	23	0.19
207	R. P. L. 69... ..	7.9	...	9	38	33.34	2	51	38.6	10	0.70
208	24 Leonis μ	4.1	...	9	46	3.04	63	26	17.0	22	0.16
209	R. P. L. 70... ..	5.0	...	9	49	29.48	5	30	50.1	3	0.13
210	R Velorum, Var. 1	Var.	...	10	1	42.46	141	36	51.0	2	0.14

178.—Groombridge 944.

187—190—191—193.—Comparison stars for Encke's Comet in 1881.

194.—Groombridge 1119.

197.—Groombridge 1359.

202.—Carrington 1286.

207.—Carrington 1418.

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.	
176	24 Orionis γ ...	+ 3.2162	+ 0.0048	- 0.002	- 3.586	+ 0.463	+ 0.02	761
177	112 Tauri β ...	+ 3.7868	+ 0.0082	+ 0.001	- 3.583	+ 0.545	+ 0.18	756
178	R. P. L. 40 ...	+ 18.5811	+ 0.6005	...	- 3.110	+ 2.678	...	...
179	34 Orionis δ ...	+ 3.0634	+ 0.0038	- 0.001	- 2.966	+ 0.443	+ 0.01	787
180	11 Leporis α ...	+ 2.6446	+ 0.0029	- 0.001	- 2.832	+ 0.383	- 0.01	796
181	R. P. L. 41 ...	+ 19.0118	+ 0.5497	...	- 2.711	+ 2.748	...	...
182	46 Orionis ϵ ...	+ 3.0427	+ 0.0035	- 0.002	- 2.598	+ 0.441	- 0.01	809
183	53 Orionis κ ...	+ 2.8441	+ 0.0027	- 0.002	- 1.559	+ 0.414	- 0.00	844
184	58 Orionis α ...	+ 3.2454	+ 0.0027	+ 0.001	- 0.981	+ 0.473	- 0.02	860
185	13 Geminorum μ ...	+ 3.6268	- 0.0003	+ 0.004	+ 1.383	+ 0.527	+ 0.10	929
186	31 Geminorum ξ ...	+ 3.3772	- 0.0017	- 0.009	+ 3.363	+ 0.485	+ 0.20	989
187	W. B. N. VI. 1280 ...	+ 4.2856	- 0.0104	...	+ 3.841	+ 0.612	...	...
188	51 Cephei (<i>Hev.</i>) ...	+ 30.1525	- 2.2422	- 0.040	+ 3.892	+ 4.311	+ 0.05	Gr.
189	14 Canis Majoris θ ...	+ 2.7971	+ 0.0004	- 0.011	+ 4.231	+ 0.397	+ 0.00	1011
190	... ..	+ 4.2885	- 0.0123	...	+ 4.412	+ 0.608	...	...
191	W. B. N. VII. 604 ...	+ 4.2329	- 0.0201	...	+ 7.132	+ 0.575	...	..
192	10 Canis Minoris α ...	+ 3.1912	- 0.0041	- 0.047	+ 7.927	+ 0.425	+ 1.08	1106
193	... ..	+ 4.2141	- 0.0027	...	+ 8.013	+ 0.561	...	...
194	R. P. L. 45 ...	+ 71.3325	- 31.4566	...	+ 8.281	+ 9.469	...	...
195	7 Argus ξ ...	+ 2.5235	+ 0.0008	- 0.001	+ 8.817	+ 0.327	- 0.02	1132
196	R. P. L. 48 ...	+ 20.3181	- 2.3703	...	+ 8.980	+ 2.645	...	...
197	R. P. L. 49 ...	+ 15.1917	- 1.2419	...	+ 9.145	+ 1.966	...	...
198	6 Cancri ...	+ 3.6969	- 0.0148	- 0.003	+ 9.743	+ 0.468	+ 0.04	1149
199	17 Cancri β ...	+ 3.2619	- 0.0072	- 0.004	+ 10.784	+ 0.397	+ 0.04	1180
200	R. P. L. 53 ...	+ 16.8722	- 2.1731	...	+ 11.530	+ 2.008	...	...
201	R. P. L. 55 ...	+ 13.6947	- 1.4676	...	+ 12.299	+ 1.572	...	...
202	R. P. L. 60 ...	+ 13.5781	- 1.7029	...	+ 13.580	+ 1.451	...	...
203	9 Ursæ Majoris ϵ ...	+ 4.1816	- 0.0446	- 0.044	+ 13.621	+ 0.443	+ 0.25	1260
204	76 Cancri κ ...	+ 3.2574	- 0.0093	- 0.003	+ 14.264	+ 0.329	- 0.01	1287
205	R. P. L. 62 ...	+ 23.8663	- 8.1850	...	+ 15.420	+ 2.217	...	...
206	14 Leonis σ ...	+ 3.2179	- 0.0093	- 0.010	+ 16.165	+ 0.272	+ 0.02	1360
207	R. P. L. 69 ...	+ 18.5550	- 5.4111	...	+ 16.355	+ 1.559	...	...
208	24 Leonis μ ...	+ 3.4411	- 0.0198	- 0.019	+ 16.725	+ 0.271	+ 0.05	1384
209	R. P. L. 70 ...	+ 10.5392	- 1.5343	...	+ 16.889	+ 0.821	...	...
210	R Velorum ...	+ 2.2389	+ 0.0033	...	+ 17.441	+ 0.154	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
211	... ..	8.1	5	10	1	59.24	150	35	53.7	5	0.15
212	... ..	9.0	1	10	3	2.44	126	29	3.0	1	0.12
213	... ..	9.3	3	10	3	11.07	127	21	37.4	3	0.12
214	... ..	9.0	5	10	7	12.31	153	24	34.7	5	0.16
215	... ..	9.3	5	10	11	6.85	152	0	15.4	5	0.14
216	Stone 5606	7.5	...	10	11	43.19	151	56	57.4	5	0.14
217	R. P. L. 72	6.0	...	10	12	17.49	5	8	58.3	2	0.19
218	... ..	9.0	3	10	19	14.46	127	58	54.0	5	0.13
219	Taylor 4656	8.3	...	10	19	21.35	151	7	12.6	5	0.15
220	42 Hydræ μ	4.1	...	10	20	22.98	106	14	3.5	10	0.19
221	Taylor 4674	6.9	...	10	21	15.46	128	45	41.7	5	0.15
222	... ..	8.0	5	10	26	22.03	150	43	53.7	5	0.14
223	Taylor 4728	6.9	...	10	26	27.34	150	45	6.4	5	0.14
224	... ..	9.0	3	10	27	17.68	128	41	37.3	5	0.18
225	Taylor 4781	7.3	...	10	32	5.75	148	34	43.3	6	0.17
226	Taylor 4783	8.0	...	10	32	12.73	148	33	21.8	5	0.17
227	Stone 5854	9.0	...	10	33	35.71	149	32	5.0	5	0.13
228	Taylor 4831	7.5	...	10	38	0.93	146	15	32.7	5	0.15
229	... ..	9.0	5	10	40	57.35	127	13	5.8	5	0.15
230	Taylor 4869	8.3	...	10	41	36.46	148	41	50.7	5	0.15
231	... ..	9.0	1	10	41	43.82	137	6	38.0	1	0.12
232	Taylor 4912	7.1	...	10	46	58.33	146	38	46.0	4	0.15
233	... ..	7.0	1	10	48	35.40	150	11	14.4	1	0.12
234	... ..	8.0	5	10	48	42.83	126	37	54.3	5	0.13
235	... ..	8.8	4	10	49	51.25	150	25	4.2	5	0.17
236	58 Leonis δ	5.0	...	10	54	27.95	85	44	56.9	20	0.22
237	... ..	9.0	5	10	55	15.00	148	15	4.9	5	0.14
238	... ..	8.6	5	10	55	30.12	148	20	58.3	5	0.15
239	Taylor 5033	6.0	...	10	59	12.78	137	2	38.9	5	0.19
240	... ..	9.0	5	10	59	21.16	131	0	22.9	5	0.16
241	R. P. L. 80	7.2	...	11	0	3.26	3	43	13.0	20	0.52
242	R. P. L. 79	7.7	...	11	0	3.67	1	43	9.9	7	0.34
243	... ..	9.0	5	11	0	17.98	147	33	47.7	5	0.16
244	... ..	9.0	4	11	4	7.83	148	5	6.2	5	0.15
245	W. B. N. XI. 50	9.0	4	11	5	24.07	71	11	16.2	5	0.29

217.—Groombridge 1620.

242.—Carrington 1639.

245.—Comparison star for Isis in 1882.

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.	
211	...	+ 1.9039	+ 0.0078	...	+ 17.453	+ 0.130	...	...
212	...	+ 2.5894	+ 0.0097	...	+ 17.498	+ 0.177	...	...
213	...	+ 2.5743	+ 0.0100	...	+ 17.504	+ 0.175	...	...
214	...	+ 1.8102	+ 0.0063	...	+ 17.673	+ 0.117	...	...
215	...	+ 1.9220	+ 0.0006	...	+ 17.832	+ 0.120	...	...
216	Stone 5606	+ 1.9306	+ 0.0099	...	+ 17.857	+ 0.120	...	...
217	R. P. L. 72	+ 9.7907	- 1.5045	- 0.096	+ 17.881	+ 0.639	- 0.04	1399
218	...	+ 2.6280	+ 0.0119	...	+ 18.147	+ 0.156	...	...
219	Taylor 4656	+ 2.0418	+ 0.0134	...	+ 18.151	+ 0.119	...	...
220	42 Hydræ μ	+ 2.9084	+ 0.0040	- 0.010	+ 18.190	+ 0.171	+ 0.06	1451
221	Taylor 4674	+ 2.6241	+ 0.0125	...	+ 18.221	+ 0.152	...	...
222	...	+ 2.1246	+ 0.0163	...	+ 18.404	+ 0.115	...	...
223	Taylor 4728	+ 2.1248	+ 0.0163	...	+ 18.406	+ 0.115	...	...
224	...	+ 2.6508	+ 0.0134	...	+ 18.435	+ 0.144	...	...
225	Taylor 4781	+ 2.2584	+ 0.0189	...	+ 18.597	+ 0.115	...	...
226	Taylor 4783	+ 2.2551	+ 0.0189	...	+ 18.600	+ 0.115	...	...
227	Stone 5854	+ 2.2357	+ 0.0193	...	+ 18.646	+ 0.112	...	...
228	Taylor 4831	+ 2.3714	+ 0.0207	...	+ 18.784	+ 0.113	...	...
229	...	+ 2.7290	+ 0.0148	...	+ 18.873	+ 0.130	...	...
230	Taylor 4869	+ 2.3348	+ 0.0221	...	+ 18.892	+ 0.107	...	...
231	...	+ 2.5904	+ 0.0186	...	+ 18.895	+ 0.120	...	...
232	Taylor 4912	+ 2.4360	+ 0.0235	...	+ 19.045	+ 0.104	...	...
233	...	+ 2.3570	+ 0.0246	...	+ 19.089	+ 0.098	...	...
234	...	+ 2.7681	+ 0.0151	...	+ 19.091	+ 0.114	...	...
235	...	+ 2.3627	+ 0.0254	...	+ 19.122	+ 0.096	...	...
236	58 Leonis δ	+ 3.1003	- 0.0039	- 0.002	+ 19.239	+ 0.120	+ 0.01	1526
237	...	+ 2.4701	+ 0.0268	...	+ 19.259	+ 0.093	...	...
238	...	+ 2.4699	+ 0.0269	...	+ 19.265	+ 0.093	...	...
239	Taylor 5033	+ 2.6958	+ 0.0221	...	+ 19.353	+ 0.096	...	...
240	...	+ 2.7683	+ 0.0187	...	+ 19.356	+ 0.098	...	...
241	R. P. L. 80	+ 8.3931	- 1.9845	...	+ 19.372	+ 0.309	...	...
242	R. P. L. 79	+ 14.5991	- 8.1819	...	+ 19.372	+ 0.543	...	...
243	...	+ 2.5306	+ 0.0281	...	+ 19.377	+ 0.087	...	...
244	...	+ 2.5547	+ 0.0376	...	+ 19.461	+ 0.082	...	...
245	W. B. N. XI. 50	+ 3.1798	- 0.0117	...	+ 19.487	+ 0.102	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
246	...	9.0	5	11	7	10.90	151	6	47.0	5	0.14
247	...	9.0	5	11	8	22.19	146	38	36.1	5	0.15
248	...	8.8	4	11	9	5.80	145	24	18.6	4	0.15
249	...	7.0	3	11	12	19.90	134	51	38.1	5	0.16
250	...	8.5	5	11	14	7.29	146	19	32.9	5	0.13
251	...	8.8	5	11	18	36.99	147	0	36.2	5	0.17
252	...	8.5	5	11	19	41.57	149	0	12.7	5	0.14
253	...	7.8	5	11	20	12.01	142	55	19.9	5	0.13
254	84 Leonis τ	5.1	...	11	21	52.21	86	29	39.2	10	0.18
255	R. P. L. 81	7.0	...	11	22	41.18	4	38	37.4	20	0.57
256	...	9.4	5	11	26	21.37	141	48	16.9	5	0.14
257	R. P. L. 82	7.3	...	11	26	32.77	3	43	57.7	15	0.49
258	...	8.9	5	11	28	5.73	130	38	4.8	5	0.15
259	...	8.5	3	11	28	30.25	130	30	7.9	3	0.19
260	Taylor 5317	7.0	...	11	30	45.47	125	28	6.8	5	0.17
261	...	9.5	1	11	32	0.27	153	2	48.0	1	0.12
262	...	8.5	5	11	33	57.66	133	59	13.1	5	0.14
263	...	9.5	4	11	34	22.08	152	59	15.5	4	0.17
264	...	8.0	5	11	39	7.74	133	57	15.9	5	0.14
265	...	9.0	5	11	40	7.14	132	55	39.5	5	0.15
266	...	9.5	5	11	40	46.70	129	11	24.3	5	0.18
267	...	9.0	1	11	40	57.25	127	13	12.9	1	0.13
268	Taylor 5420	7.8	...	11	43	38.24	149	46	9.4	3	0.16
269	...	8.0	5	11	47	1.12	131	7	21.8	5	0.13
270	...	9.0	4	11	47	9.54	134	49	39.7	5	0.16
271	...	8.1	5	11	49	29.02	126	37	51.8	5	0.15
272	...	7.9	4	11	51	12.37	153	1	11.7	4	0.17
273	...	7.6	3	11	52	35.57	132	46	49.5	5	0.15
274	R. P. L. 87	8.0	...	11	53	28.06	2	20	55.1	1	0.85
275	8 Virginis π	4.4	...	11	54	49.56	82	43	33.8	10	0.17
276	...	9.2	5	11	55	23.42	151	57	9.8	5	0.17
277	...	8.5	3	11	58	28.20	152	55	17.5	4	0.15
278	R. P. L. 89	6.3	...	11	58	47.82	3	45	34.4	16	0.64
279	Stone 6739	7.7	...	11	59	18.50	152	19	9.1	5	0.15
280	2 Corvi ϵ	3.1	...	12	4	3.40	111	57	48.6	10	0.26

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.	
246	...	+ 2'5187	+ 0'0328	...	+ 19'523	+ 0'076	...	...
247	...	+ 2'6187	+ 0'0303	...	+ 19'547	+ 0'078	...	...
248	...	+ 2'6454	+ 0'0297	...	+ 19'561	+ 0'078	...	...
249	...	+ 2'7976	+ 0'0232	...	+ 19'621	+ 0'077	...	...
250	...	+ 2'6733	+ 0'0321	...	+ 19'654	+ 0'070	...	...
251	...	+ 2'7025	+ 0'0340	...	+ 19'727	+ 0'060	...	...
252	...	+ 2'6829	+ 0'0362	...	+ 19'745	+ 0'066	...	...
253	...	+ 2'7666	+ 0'0309	...	+ 19'752	+ 0'062	...	...
254	84 Leonis τ ...	+ 3'0800	- 0'0020	- 0'001	+ 19'777	+ 0'066	+ 0'01	1570
255	R. P. L. 81 ...	+ 5'7402	- 0'9944	...	+ 19'789	+ 0'127	...	...
256	...	+ 2'8237	+ 0'0315	...	+ 19'839	+ 0'052	...	...
257	R. P. L. 82 ...	+ 6'0529	- 1'3334	...	+ 19'840	+ 0'120	...	...
258	...	+ 2'9130	+ 0'0229	...	+ 19'860	+ 0'051	...	...
259	...	+ 2'9158	+ 0'0228	...	+ 19'865	+ 0'050	...	...
260	Taylor 5317 ...	+ 2'9512	+ 0'0197	...	+ 19'891	+ 0'046	...	...
261	...	+ 2'7519	+ 0'0464	...	+ 19'905	+ 0'040	...	...
262	...	+ 2'9260	+ 0'0263	...	+ 19'924	+ 0'040	...	...
263	...	+ 2'7796	+ 0'0477	...	+ 19'928	+ 0'036	...	...
264	...	+ 2'0553	+ 0'0272	...	+ 19'971	+ 0'031	...	...
265	...	+ 2'9646	+ 0'0265	...	+ 19'978	+ 0'031	...	...
266	...	+ 2'9310	+ 0'0236	...	+ 19'983	+ 0'029	...	...
267	...	+ 2'9880	+ 0'0222	...	+ 19'984	+ 0'028	...	...
268	Taylor 5420 ...	+ 2'9086	+ 0'0466	...	+ 20'002	+ 0'022	...	...
269	...	+ 3'0063	+ 0'0260	...	+ 20'021	+ 0'016	...	...
270	...	+ 2'9978	+ 0'0289	...	+ 20'022	+ 0'016	...	...
271	...	+ 3'0266	+ 0'0227	...	+ 20'033	+ 0'012	...	...
272	...	+ 2'9637	- 0'0559	...	+ 20'040	+ 0'009	...	...
273	...	+ 3'0322	+ 0'0265	...	+ 20'043	+ 0'006	...	...
274	R. P. L. 87 ...	+ 4'0012	- 1'1672	...	+ 20'046	+ 0'008	...	...
275	8 Virginis π ...	+ 3'0761	- 0'0022	- 0'003	+ 20'048	+ 0'002	+ 0'02	1618
276	...	+ 3'0219	+ 0'0558	...	+ 20'050	0'000	...	...
277	...	+ 3'0549	+ 0'0593	...	+ 20'054	- 0'005	...	...
278	R. P. L. 89 ...	+ 3'1791	- 0'4845	...	+ 20'054	- 0'007	...	...
279	Stone 6739 ...	+ 3'0648	+ 0'0584	...	+ 20'055	- 0'007	...	...
280	2 Corvi ϵ ...	+ 3'0819	+ 0'0142	- 0'006	+ 20'052	- 0'016	- 0'002	1626

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
281	R. P. L. 90	7.7	...	12	7	33.72	2	24	42.7	9	0.90
282	15 Virginis η	4.0	...	12	13	52.12	90	0	38.9	10	0.28
283	R. P. L. 93	6.7	...	12	14	21.58	1	38	48.3	4	0.95
284	7 Corvi δ^a	3.1	...	12	23	45.68	105	51	30.7	29	0.23
285	29 Virginis γ^1	3.5	...	12	35	40.87	90	48	3.5	10	0.34
286	R. P. L. 97	7.2	...	12	37	32.58	5	42	30.1	16	0.55
287	R. P. L. 98	6.6	...	12	48	8.71	5	56	27.5	12	0.57
288	R. P. L. 99	5.6	...	12	48	16.27	5	56	46.1	4	0.74
289	12 Canum Venat. α	3.1	...	12	50	30.32	51	2	35.4	3	0.29
290	47 Virginis ϵ (<i>Vindemiatrix</i>)	3.0	...	12	56	13.21	78	24	23.2	10	0.41
291	... ..	8.0	4	13	0	24.33	127	6	36.1	5	0.21
292	R. P. L. 100	8.0	...	13	0	29.52	3	28	46.1	11	0.40
293	... ..	8.5	4	13	1	21.42	137	3	30.4	5	0.18
294	... ..	9.0	3	13	2	5.01	152	14	29.0	5	0.36
295	... ..	8.2	4	13	4	4.92	144	52	58.9	5	0.19
296	... ..	8.0	5	13	5	10.31	124	59	19.0	5	0.26
297	R. P. L. 101	7.5	...	13	7	16.80	1	43	1.7	9	0.53
298	... ..	9.0	5	13	9	22.86	145	35	32.2	5	0.18
299	Stone 7283	7.5	...	13	10	37.79	152	49	38.5	5	0.38
300	Stone 7291... ..	7.0	...	13	11	31.00	135	8	31.3	5	0.18
301	... ..	9.5	5	13	11	56.65	135	3	41.6	5	0.28
302	... ..	8.9	4	13	15	33.66	125	4	43.0	4	0.21
303	Taylor 6163	7.0	...	13	16	51.27	137	16	21.2	5	0.28
304	... ..	8.3	...	13	17	9.66	131	17	9.6	4	0.41
305	... ..	8.5	4	13	17	39.49	148	18	5.0	5	0.20
306	R. P. L. 103	7.0	...	13	19	24.93	4	37	44.8	4	0.53
307	... ..	9.0	4	13	20	9.69	143	13	19.9	5	0.21
308	... ..	8.0	...	13	22	22.98	125	9	46.7	5	0.31
309	... ..	9.0	5	13	22	49.35	126	56	53.3	5	0.21
310	... ..	7.0	4	13	26	3.00	126	14	49.8	5	0.42
311	Taylor 6262	7.0	...	13	27	11.91	152	1	27.6	5	0.37
312	... ..	7.3	3	13	27	33.27	140	11	9.1	5	0.18
313	... ..	8.0	5	13	28	42.07	144	39	9.3	5	0.25
314	... ..	8.0	4	13	28	59.66	153	31	1.7	4	0.40
315	Taylor 6283	7.3	...	13	29	27.12	131	48	42.9	2	0.32

281.—Carrington 1816.
297.—Groombridge 2006.

283.—Groombridge 1884.
306.—Groombridge 2007.

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.	
281	R. P. L. 90 ...	+ 2.0254	- 0.2228	...	+ 20.043	- 0.019	...	...
282	15 Virginis η ...	+ 3.0724	+ 0.0027	- 0.006	+ 20.017	- 0.035	+ 0.02	1647
283	R. P. L. 93 ...	+ 0.1603	+ 0.0329	- 0.090	+ 20.015	- 0.010	- 0.08	1672
284	7 Corvi δ^A ...	+ 3.1116	+ 0.0118	- 0.014	+ 19.946	- 0.055	+ 0.15	1675
285	29 Virginis γ^1 ...	+ 3.0752	+ 0.0043	- 0.039	+ 19.812	- 0.078	- 0.02	1698
286	R. P. L. 97 ...	+ 0.8911	+ 0.1293	...	+ 19.785	- 0.030	...	...
287	R. P. L. 98 ...	+ 0.3982	+ 0.2147	- 0.017	+ 19.613	- 0.020	- 0.02	1730
288	R. P. L. 99 ...	+ 0.3888	+ 0.2153	- 0.020	+ 19.611	- 0.020	- 0.02	1731
289	12 Canum Venat. α ...	+ 2.8360	- 0.0152	- 0.022	+ 19.569	- 0.098	- 0.07	1725
290	47 Virginis ϵ ...	+ 3.0057	- 0.0007	- 0.019	+ 19.452	- 0.114	- 0.03	1735
291	... ..	+ 3.3358	+ 0.0305	...	+ 19.361	- 0.134	...	...
292	R. P. L. 100 ...	- 2.6642	+ 1.3047	...	+ 19.359	+ 0.093	...	...
293	... ..	+ 3.4523	+ 0.0435	...	+ 19.340	- 0.140	...	...
294	... ..	+ 3.7520	+ 0.0835	...	+ 19.323	- 0.153	...	...
295	... ..	+ 3.5970	+ 0.0598	...	+ 19.275	- 0.152	...	...
296	... ..	+ 3.3348	+ 0.0288	...	+ 19.248	- 0.144	...	...
297	R. P. L. 101 ...	- 0.8315	+ 7.0682	...	+ 19.196	+ 0.407	...	...
298	... ..	+ 3.6542	+ 0.0626	...	+ 19.141	- 0.166	...	...
299	Stone 7283 ...	+ 3.8623	+ 0.0800	...	+ 19.110	- 0.178	...	...
300	Stone 7291 ...	+ 3.4840	+ 0.0417	...	+ 19.086	- 0.163	...	...
301	... ..	+ 3.4800	+ 0.0416	...	+ 19.074	- 0.164	...	...
302	... ..	+ 3.3763	+ 0.0295	...	+ 18.973	- 0.167	...	...
303	Taylor 6163 ...	+ 3.5486	+ 0.0456	...	+ 18.938	- 0.177	...	...
304	... ..	+ 3.4601	+ 0.0366	...	+ 18.928	- 0.174	...	...
305	... ..	+ 3.7918	+ 0.0725	...	+ 18.914	- 0.191	...	...
306	R. P. L. 103 ...	- 2.5353	+ 0.9282	...	+ 18.862	+ 0.118	...	...
307	... ..	+ 3.6852	+ 0.0591	...	+ 18.840	- 0.191	...	...
308	... ..	+ 3.4036	+ 0.0300	...	+ 18.772	- 0.182	...	...
309	... ..	+ 3.4278	+ 0.0318	...	+ 18.759	- 0.184	...	...
310	... ..	+ 3.4318	+ 0.0312	...	+ 18.657	- 0.191	...	...
311	Taylor 6262 ...	+ 4.0070	+ 0.0896	...	+ 18.620	- 0.224	...	...
312	... ..	+ 3.6702	+ 0.0522	...	+ 18.609	- 0.206	...	...
313	... ..	+ 3.7837	+ 0.0681	...	+ 18.571	- 0.215	...	...
314	... ..	+ 4.0891	+ 0.0980	...	+ 18.568	- 0.232	...	...
315	Taylor 6283 ...	+ 3.5274	+ 0.0381	...	+ 18.546	- 0.204	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
316	... ..	8.0	...	13	32	39.62	147	19	36.1	3	0.32
317	... ..	9.5	4	13	33	42.64	151	34	20.3	4	0.49
318	Stone 7500	7.8	...	13	34	50.36	132	34	42.2	5	0.39
319	Taylor 6838	7.0	...	13	34	57.97	132	32	59.4	5	0.39
320	... ..	8.0	4	13	35	34.69	126	46	47.7	5	0.29
321	... ..	8.3	5	13	35	43.14	126	55	23.4	5	0.27
322	Taylor 6366	7.0	...	13	38	6.68	151	51	30.7	1	0.17
323	... ..	7.0	5	13	40	50.19	126	0	54.0	5	0.42
324	4 Bootis τ	4.5	...	13	41	39.32	71	57	16.9	16	0.33
325	85 Urs. Maj. η (<i>Benetnasch</i>)	2.0	...	13	42	53.44	40	5	51.1	4	0.33
326	Stone 7574	7.8	...	13	44	8.89	152	46	15.8	5	0.26
327	Stone 7575	8.5	...	13	44	10.18	152	48	41.4	4	0.30
328	... ..	8.0	4	13	45	51.54	133	16	33.6	5	0.39
329	... ..	8.5	4	13	47	50.11	127	20	39.4	5	0.40
330	... ..	8.0	4	13	48	39.96	125	15	2.9	5	0.38
331	Stone 7649	7.8	...	13	50	18.73	136	25	52.1	5	0.44
332	Stone 7668	7.5	...	13	51	36.36	152	12	25.6	3	0.33
333	... ..	8.0	5	13	52	8.11	127	1	11.3	5	0.24
334	Taylor 6513	7.0	...	13	53	52.00	133	37	26.7	5	0.31
335	93 Virginis τ	4.3	...	13	55	38.53	87	53	1.1	10	0.46
336	... ..	8.0	4	13	57	2.90	126	42	54.2	5	0.32
337	Stone 7699	7.3	...	13	57	5.09	126	41	44.2	3	0.36
338	... ..	8.0	4	13	57	17.44	134	43	14.3	5	0.42
339	... ..	8.0	4	13	57	20.63	151	21	53.9	5	0.36
340	R. P. L. 103	7.8	...	14	1	37.11	3	40	38.2	11	0.55
341	... ..	9.6	5	14	4	28.92	130	31	34.0	5	0.32
342	... ..	9.5	4	14	4	32.43	135	48	22.5	4	0.38
343	Stone 7768	7.8	...	14	6	27.45	151	21	52.1	5	0.34
344	R Centauri, Var.	7.2	8	14	8	4.79	149	21	47.0	9	0.42
345	Taylor 6860	7.3	...	14	11	57.76	135	33	16.4	5	0.31
346	... ..	9.0	4	14	13	3.42	151	0	25.1	4	0.34
347	... ..	8.4	4	14	13	24.63	141	46	42.8	5	0.30
348	Stone 7826	6.9	...	14	14	4.01	156	6	16.4	3	0.49
349	Stone 7843	7.0	...	14	15	52.90	131	42	49.3	5	0.40
350	... ..	9.5	5	14	15	59.28	131	45	50.2	5	0.43

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.	
316	...	+ 3.8923	+ 0.0717	...	+ 18.437	- 0.230	...	...
317	...	+ 4.0542	+ 0.0890	...	+ 18.400	- 0.242	...	...
318	Stone 7500	+ 3.5663	+ 0.0396	...	+ 18.862	- 0.216	...	...
319	Taylor 6338	+ 3.5664	+ 0.0396	...	+ 18.357	- 0.217	...	...
320	...	+ 3.4771	+ 0.0323	...	+ 18.335	- 0.212	...	...
321	...	+ 3.4798	+ 0.0324	...	+ 18.330	- 0.213	...	...
322	Taylor 6366	+ 4.1098	+ 0.0909	...	+ 18.245	- 0.253	...	...
323	...	+ 3.4863	+ 0.0316	...	+ 18.144	- 0.224	...	...
324	4 Bootis τ	+ 2.8855	- 0.0007	- 0.035	+ 18.113	- 0.188	- 0.04	1810
325	85 Ursæ Majoris η	+ 2.3832	- 0.0103	- 0.012	+ 18.067	- 0.150	+ 0.01	1815
326	Stone 7574	+ 4.2128	+ 0.0970	...	+ 18.019	- 0.276	...	...
327	Stone 7575	+ 4.2149	+ 0.0973	...	+ 18.018	- 0.276	...	...
328	...	+ 3.6333	+ 0.0412	...	+ 17.953	- 0.243	...	...
329	...	+ 3.5348	+ 0.0333	...	+ 17.875	- 0.240	...	...
330	...	+ 3.5037	+ 0.0310	...	+ 17.841	- 0.240	...	...
331	Stone 7649	+ 3.7229	+ 0.0465	...	+ 17.775	- 0.258	...	...
332	Stone 7663	+ 4.2594	+ 0.0953	...	+ 17.722	- 0.207	...	...
333	...	+ 3.5461	+ 0.0330	...	+ 17.701	- 0.250	...	...
334	Taylor 6513	+ 3.6796	+ 0.0419	...	+ 17.630	- 0.263	...	...
335	93 Virginis τ	+ 3.0484	+ 0.0064	- 0.001	+ 17.555	- 0.222	+ 0.03	1829
336	...	+ 3.5593	+ 0.0328	...	+ 17.495	- 0.261	...	...
337	Stone 7699	+ 3.5594	+ 0.0328	...	+ 17.494	- 0.261	...	...
338	...	+ 3.7207	+ 0.0438	...	+ 17.485	- 0.273	...	...
339	...	+ 4.2697	+ 0.0918	...	+ 17.482	- 0.312	...	...
340	R. P. L. 108	- 7.4560	+ 2.3588	...	+ 17.296	- 0.543	...	...
341	...	+ 3.6630	+ 0.0375	...	+ 17.168	- 0.282	...	...
342	...	+ 3.7833	+ 0.0457	...	+ 17.164	- 0.291	...	...
343	Stone 7768	+ 4.3558	+ 0.0926	...	+ 17.078	- 0.338	...	...
344	R Centauri	+ 4.2691	+ 0.0831	...	+ 17.003	- 0.336	...	...
345	Taylor 6660	+ 3.8145	+ 0.0454	...	+ 16.821	- 0.309	...	...
346	...	+ 4.3956	+ 0.0910	...	+ 16.768	- 0.357	...	...
347	...	+ 4.0057	+ 0.0583	...	+ 16.751	- 0.325	...	...
348	Stone 7826	+ 4.7386	+ 0.1241	...	+ 16.719	- 0.387	...	...
349	Stone 7843	+ 3.7882	+ 0.0392	...	+ 16.631	- 0.311	...	...
350	...	+ 3.7399	+ 0.0398	...	+ 16.626	- 0.311	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
351	Stone 7847	8.0	...	14	16	21.78	131	44	55.7	5	0.42
352	Stone 7876	7.5	...	14	19	55.52	135	40	50.4	6	0.37
353	Stone 7877	7.8	...	14	20	1.07	135	40	9.1	4	0.41
354	22 Bootis <i>f</i>	5.4	...	14	20	58.05	70	14	31.1	14	0.35
355	... ..	7.0	2	14	21	15.05	150	19	17.8	2	0.40
356	Stone 7897	7.3	...	14	23	4.07	129	56	56.1	1	0.49
357	... ..	7.5	2	14	24	57.78	148	17	54.0	5	0.39
358	25 Bootis <i>p</i>	3.6	...	14	26	44.62	59	6	36.4	2	0.26
359	Taylor 6793	8.0	...	14	27	41.26	126	41	8.5	5	0.40
360	... ..	7.2	5	14	28	23.79	126	2	1.4	6	0.35
361	... ..	8.9	4	14	28	55.06	149	14	57.2	5	0.33
362	Stone 7947	7.1	...	14	29	26.03	157	41	24.2	3	0.49
363	Stone 7969	7.8	...	14	32	13.24	129	3	12.9	5	0.44
364	... ..	8.5	...	14	35	23.47	151	25	29.9	4	0.41
365	Taylor 6860	8.3	...	14	35	39.49	136	7	4.4	5	0.35
366	... ..	8.0	...	14	37	17.20	134	9	46.8	5	0.40
367	... ..	9.3	5	14	37	41.01	132	14	21.3	5	0.33
368	... ..	8.5	...	14	38	43.04	128	6	14.3	4	0.48
369	36 Bootis ϵ^3 (<i>Mirac</i>)	2.6	...	14	39	49.96	62	25	40.1	10	0.45
370	... ..	8.1	4	14	42	52.01	135	48	9.7	4	0.43
371	... ..	8.8	5	14	46	10.50	150	2	6.8	5	0.32
372	Stone 8098	7.5	...	14	46	16.18	129	15	48.5	5	0.35
373	... ..	7.5	2	14	47	1.61	131	33	41.0	2	0.48
374	Stone 8107	7.8	...	14	47	3.30	128	51	46.1	5	0.37
375	Stone 8109	7.8	...	14	47	7.95	128	49	31.7	4	0.41
376	... ..	7.5	1	14	48	6.24	126	40	48.1	1	0.49
377	Taylor 6956	6.7	...	14	49	5.29	128	56	11.2	3	0.45
378	7 Ursæ Minoris β	2.1	...	14	51	3.65	15	21	44.2	4	0.47
379	Stone 8154	7.3	...	14	51	35.11	149	20	18.1	5	0.35
380	R. P. L. 110	7.0	...	14	53	4.62	3	33	46.7	16	0.62
381	... ..	8.0	2	14	53	25.73	131	49	5.2	2	0.49
382	... ..	7.5	5	14	53	54.87	131	21	16.0	5	0.44
383	... ..	9.0	3	14	54	3.88	147	45	41.1	5	0.36
384	... ..	7.0	5	14	54	7.93	131	20	56.9	5	0.45
385	T Trianguli Aust., Var.	7.2	3	14	58	46.22	158	15	55.2	4	0.36

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.	
351	Stone 7847 ...	+ 3.7412	+ 0.0393	...	+ 16.607	- 0.312	...	...
352	Stone 7876 ...	+ 3.8572	+ 0.0456	...	+ 16.431	- 0.328	...	...
353	Stone 7877 ...	+ 3.8574	+ 0.0456	...	+ 16.426	- 0.329	...	...
354	22 Bootis <i>f</i> ...	+ 2.7952	+ 0.0009	- 0.006	+ 16.378	- 0.242	- 0.03	1864
355	... ..	+ 4.4283	+ 0.0878	...	+ 16.362	- 0.379	...	...
356	Stone 7897 ...	+ 3.7268	+ 0.0367	...	+ 16.271	- 0.324	...	...
357	... ..	+ 4.3519	+ 0.0790	...	+ 16.174	- 0.381	...	...
358	25 Bootis <i>p</i> ...	+ 2.5945	- 0.0015	- 0.009	+ 16.082	- 0.233	- 0.13	1869
359	Taylor 6793 ...	+ 3.6707	+ 0.0325	...	+ 16.033	- 0.328	...	...
360	... ..	+ 3.6589	+ 0.0317	...	+ 15.995	- 0.328	...	...
361	... ..	+ 4.4318	+ 0.0828	...	+ 15.967	- 0.396	...	...
362	Stone 7947 ...	+ 5.0493	+ 0.1394	...	+ 15.940	- 0.452	...	...
363	Stone 7969 ...	+ 3.7410	+ 0.0352	...	+ 15.791	- 0.342	...	...
364	... ..	+ 4.6120	+ 0.0930	...	+ 15.618	- 0.427	...	...
365	Taylor 6860 ...	+ 3.9456	+ 0.0457	...	+ 15.603	- 0.367	...	...
366	... ..	+ 3.8951	+ 0.0423	...	+ 15.513	- 0.366	...	...
367	... ..	+ 3.8432	+ 0.0394	...	+ 15.492	- 0.362	...	...
368	... ..	+ 3.7418	+ 0.0339	...	+ 15.434	- 0.354	...	...
369	36 Bootis <i>e</i> ³ ...	+ 2.6240	- 0.0001	- 0.004	+ 15.371	- 0.252	- 0.00	1890
370	... ..	+ 3.9692	- 0.0448	...	+ 15.200	- 0.384	...	...
371	... ..	+ 4.6102	+ 0.0852	...	+ 15.009	- 0.450	...	...
372	Stone 8098 ...	+ 3.7974	+ 0.0348	...	+ 15.005	- 0.372	...	...
373	... ..	+ 3.8618	+ 0.0379	...	+ 14.960	- 0.380	...	...
374	Stone 8107 ...	+ 3.7809	+ 0.0314	...	+ 14.959	- 0.373	...	...
375	Stone 8109 ..	+ 3.7802	+ 0.0313	...	+ 14.954	- 0.373	...	...
376	... ..	+ 3.7390	+ 0.0319	...	+ 14.897	- 0.370	...	...
377	Taylor 6956 ...	+ 3.7989	+ 0.0344	...	+ 14.839	- 0.378	...	...
378	7 Ursæ Minoris <i>β</i> ...	- 0.2316	+ 0.1022	- 0.008	+ 14.722	+ 0.018	+ 0.01	1917
379	Stone 8154 ...	+ 4.6072	+ 0.0814	...	+ 14.691	- 0.462	...	...
380	R. P. L. 119 ...	- 11.6444	+ 3.0119	...	+ 14.602	+ 1.158	...	...
381	... ..	+ 3.8834	+ 0.0378	...	+ 14.580	- 0.395	...	...
382	... ..	+ 3.8820	+ 0.0372	...	+ 14.551	- 0.395	...	...
383	... ..	+ 4.5319	+ 0.0747	...	+ 14.543	- 0.460	...	...
384	... ..	+ 3.8826	+ 0.0372	...	+ 14.538	- 0.395	...	...
385	T Trianguli Australis.	+ 5.4309	+ 0.1423	...	+ 14.256	- 0.561	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
386	Taylor 7027	6.8	...	14	58	49.23	125	48	17.8	4	0.47
387	...	9.0	1	14	58	52.60	131	34	57.9	1	0.32
388	...	9.0	2	15	0	39.41	126	5	51.7	5	0.36
389	Stone 8238	7.0	...	15	2	43.37	152	35	3.7	5	0.39
390	R. P. L. 111	7.0	...	15	3	40.93	5	35	34.1	3	0.54
391	...	9.0	4	15	5	39.65	152	52	25.7	5	0.38
392	27 Liffrae β	2.7	...	15	10	39.44	98	56	47.6	10	0.48
393	Stone 8318	7.8	...	15	11	16.92	132	0	14.9	5	0.37
394	...	9.0	3	15	12	19.70	153	41	59.7	5	0.34
395	...	8.5	2	15	12	52.12	129	24	7.5	5	0.37
396	R. P. L. 114	6.9	...	15	15	43.60	2	18	55.0	7	0.46
397	...	9.5	4	15	21	2.01	153	41	6.8	5	0.36
398	...	9.0	4	15	21	4.99	151	16	21.2	5	0.35
399	...	8.0	1	15	23	55.31	133	15	37.6	5	0.36
400	...	7.3	3	15	26	53.52	133	25	13.1	5	0.39
401	...	8.0	...	15	28	5.10	143	23	40.9	5	0.33
402	...	9.3	3	15	29	22.13	155	16	22.2	5	0.35
403	...	8.0	...	15	31	49.12	133	13	52.7	5	0.37
404	Stone 8520	6.9	...	15	34	8.59	149	54	30.9	5	0.39
405	Stone 8549	6.1	...	15	37	8.43	155	4	15.0	5	0.38
406	...	9.4	2	15	37	25.78	155	8	34.7	2	0.34
407	24 Serpentis α	2.7	...	15	38	27.32	83	12	7.0	10	0.51
408	Taylor 7350	6.6	...	15	42	0.59	135	2	18.1	5	0.41
409	...	9.0	5	15	44	21.28	134	47	26.3	5	0.47
410	37 Serpentis ϵ	3.7	...	15	44	56.06	85	9	58.8	20	0.38
411	R. P. L. 115	7.0	...	15	45	33.97	4	47	13.2	6	0.65
412	...	6.5	5	15	47	59.13	130	26	12.2	5	0.43
413	Taylor 7401	6.9	...	15	50	12.24	133	44	11.5	4	0.39
414	Stone 8746	7.3	...	15	58	51.99	135	1	31.3	5	0.36
415	R. P. L. 116	7.0	...	16	0	59.27	4	21	40.2	3	0.40
416	R. P. L. 117	7.2	...	16	3	22.80	6	2	30.1	7	0.42
417	...	7.0	5	16	4	10.49	125	17	45.0	5	0.43
418	...	7.0	3	16	4	57.32	133	46	3.6	3	0.54
419	...	8.5	2	16	6	1.75	125	29	39.0	2	0.47
420	Taylor 7532	6.6	...	16	7	11.87	132	35	58.5	5	0.37

411.—Carrington 2380.

415.—Carrington 2423.

416.—Carrington 2424.

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.	
386	Taylor 7027 ...	+ 3.7507	+ 0.0302	...	+ 14.253	- 0.390	...	...
387	... ..	+ 3.9070	+ 0.0371	...	+ 14.249	- 0.405	...	...
388	... ..	+ 3.7635	+ 0.0303	...	+ 14.140	- 0.394	...	...
389	Stone 8238 ...	+ 4.9163	+ 0.0961	...	+ 14.011	- 0.517	...	...
390	R. P. L. 111 ...	- 6.7355	+ 1.1555	...	+ 13.951	+ 0.700	...	...
391	... ..	+ 4.9626	+ 0.0972	...	+ 13.826	- 0.528	...	...
392	27 Librae β ...	+ 3.2279	+ 0.0117	- 0.008	+ 13.505	- 0.353	+ 0.02	1934
393	Stone 8318 ...	+ 3.9646	+ 0.0365	...	+ 13.466	- 0.433	...	...
394	... ..	+ 5.0850	+ 0.1007	...	+ 13.397	- 0.556	...	...
395	... ..	+ 3.8912	+ 0.0330	...	+ 13.362	- 0.428	...	...
396	R. P. L. 114 ...	- 21.8577	+ 7.4101	...	+ 13.173	+ 2.307	...	...
397	... ..	+ 5.1510	+ 0.0983	...	+ 12.821	- 0.582	...	...
398	... ..	+ 4.9481	+ 0.0848	...	+ 12.818	- 0.559	...	...
399	... ..	+ 4.0198	+ 0.0369	...	+ 12.626	- 0.463	...	...
400	... ..	+ 4.0655	+ 0.0367	...	+ 12.422	- 0.472	...	...
401	... ..	+ 4.7851	+ 0.0708	...	+ 12.340	- 0.554	...	...
402	... ..	+ 5.3706	+ 0.1061	...	+ 12.249	- 0.623	...	...
403	... ..	+ 4.0754	+ 0.0355	...	+ 12.082	- 0.478	...	...
404	Stone 8520 ...	+ 4.9279	+ 0.0750	...	+ 11.918	- 0.581	...	...
405	Stone 8540 ...	+ 5.4078	+ 0.1017	...	+ 11.706	- 0.643	...	...
406	... ..	+ 5.4177	+ 0.1022	...	+ 11.686	- 0.645	...	...
407	24 Serpentis α ...	+ 2.9424	+ 0.0062	+ 0.008	+ 11.613	- 0.354	- 0.06	1990
408	Taylor 7350 ...	+ 4.1756	+ 0.0367	...	+ 11.359	- 0.506	...	...
409	... ..	+ 4.1737	+ 0.0359	...	+ 11.188	- 0.509	...	...
410	37 Serpentis ϵ ...	+ 2.9784	+ 0.0066	+ 0.007	+ 11.146	- 0.365	- 0.06	2005
411	R. P. L. 115 ...	- 10.2238	+ 1.5251	...	+ 11.100	+ 1.237	...	...
412	... ..	+ 4.0278	+ 0.0300	...	+ 10.923	- 0.497	...	...
413	Taylor 7401 ...	+ 4.1517	+ 0.0335	...	+ 10.760	- 0.515	...	...
414	Stone 8746 ...	+ 4.2278	+ 0.0335	...	+ 10.113	- 0.535	...	...
415	R. P. L. 116 ...	- 12.1477	+ 1.7456	...	+ 9.952	+ 1.534	...	...
416	R. P. L. 117 ...	- 7.9597	+ 0.8621	...	+ 9.770	+ 1.010	...	...
417	... ..	+ 3.9004	+ 0.0228	...	+ 9.709	- 0.501	...	...
418	... ..	+ 4.1949	+ 0.0307	...	+ 9.649	- 0.539	...	...
419	... ..	+ 3.9103	+ 0.0227	...	+ 9.567	- 0.505	...	...
420	Taylor 7532 ...	+ 4.1557	+ 0.0290	...	+ 9.477	- 0.537	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
421*	Stone 8882	8.0	...	16	7	52.61	135	5	21.5	3	0.43
422	"	8.0	1	16	8	10.34	135	14	47.3	1	0.40
423	Stone 8853... ..	7.6	...	16	10	33.63	124	37	22.0	2	0.56
424	"	9.0	5	16	11	10.64	130	31	47.5	5	0.52
425	Stone 8892... ..	6.6	...	16	14	39.33	152	50	55.1	1	0.48
426	Taylor 7597	8.0	...	16	16	1.84	128	54	54.7	5	0.54
427	20 Herulis γ	3.8	...	16	16	42.82	70	34	8.2	20	0.41
428	"	8.5	1	16	18	2.13	130	57	10.6	1	0.56
429	21 Coronæ Borealis ν^a	5.0	...	16	18	2.30	56	1	16.0	3	0.47
430	21 Scorpis α (<i>Antares</i>)	1.1	...	16	22	10.44	116	10	6.5	7	0.47
431	"	7.1	4	16	22	28.16	127	42	42.3	5	0.46
432	"	8.0	1	16	23	28.41	136	25	11.7	1	0.41
433	"	7.5	3	16	23	34.72	128	44	35.1	3	0.49
434	Stone 8976	7.3	...	16	25	21.60	123	16	39.5	2	0.44
435	Taylor 7680	7.5	...	16	28	52.92	125	40	22.2	5	0.46
436	"	9.5	2	16	28	58.88	125	32	30.1	2	0.39
437	Stone 9014	7.3	...	16	30	29.30	128	54	42.2	4	0.60
438	13 Ophiuchi ζ	2.8	...	16	30	39.69	100	19	36.5	12	0.44
439	"	7.0	5	16	31	58.95	134	20	19.3	5	0.47
440	"	7.0	3	16	36	13.06	128	43	3.3	5	0.59
441	"	7.5	4	16	38	13.20	129	3	13.5	4	0.49
442	Stone 9094	6.0	...	16	38	43.69	129	9	29.6	5	0.44
443	"	8.0	1	16	38	47.69	125	34	29.9	2	0.58
444	" ... ..	...	...	16	41	11.36	126	18	14.7	1	0.39
445	"	7.0	3	16	41	33.70	132	53	46.8	4	0.52
446	"	8.0	2	16	42	25.28	127	50	24.5	2	0.60
447	Taylor 7793	7.0	...	16	44	38.10	127	23	51.3	4	0.56
448	Taylor 7821	7.0	...	16	47	31.10	129	18	43.7	3	0.42
449	"	8.5	1	16	48	56.72	132	12	51.0	3	0.47
450	"	7.5	...	16	50	8.10	124	13	8.2	3	0.63
451	"	8.5	1	16	50	16.23	128	26	11.8	1	0.45
452	Stone 9263	7.5	...	16	55	11.85	129	54	51.6	5	0.54
453	Taylor 7899	7.0	...	16	57	46.61	126	34	27.6	5	0.62
454	22 Ursæ Minoris ϵ	4.5	...	16	58	6.49	7	46	13.4	6	0.36
455	"	9.0	4	16	59	19.04	132	35	31.9	4	0.51

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Procession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	
421	Stone 8832 ...	+ 4.2561	+ 0.0318	...	+ 9.424	- 0.551	...	...
422	... ..	+ 4.2634	+ 0.0319	...	+ 9.401	- 0.552	...	...
423	Stone 8853 ...	+ 3.8022	+ 0.0214	...	+ 9.217	- 0.507	...	...
424	... ..	+ 4.0889	+ 0.0203	...	+ 9.169	- 0.534	...	...
425	Stone 8892 ...	+ 5.4085	+ 0.0715	...	+ 8.895	- 0.709	...	...
426	Taylor 7597 ...	+ 4.0425	+ 0.0240	...	+ 8.789	- 0.533	...	...
427	20 Herculis γ ...	+ 2.6478	+ 0.0038	- 0.005	+ 8.735	- 0.351	- 0.05	2084
428	... ..	+ 4.1196	+ 0.0254	...	+ 8.032	- 0.545	...	...
429	21 Coronæ Borealis ν^2 ...	+ 2.2590	+ 0.0032	...	+ 8.031	- 0.301	...	...
430	21 Scorpii α ...	+ 3.0704	+ 0.0150	- 0.002	+ 8.303	- 0.491	+ 0.03	2091
431	... ..	+ 4.0138	+ 0.0218	...	+ 8.278	- 0.537	...	...
432	... ..	+ 4.3545	+ 0.0209	...	+ 8.198	- 0.583	...	...
433	... ..	+ 4.0515	+ 0.0225	...	+ 8.192	- 0.543	...	...
434	Stone 8976 ...	+ 3.8760	+ 0.0185	...	+ 8.047	- 0.520	...	...
435	Taylor 7680 ...	+ 3.9572	+ 0.0193	...	+ 7.765	- 0.534	...	...
436	... ..	+ 3.9530	+ 0.0192	...	+ 7.757	- 0.534	...	...
437	Stone 9014 ...	+ 4.0703	+ 0.0213	...	+ 7.634	- 0.551	...	...
438	13 Ophiuchi ζ ...	+ 3.2976	+ 0.0087	- 0.001	+ 7.621	- 0.447	- 0.04	2109
439	... ..	+ 4.2836	+ 0.0256	...	+ 7.513	- 0.581	...	...
440	... ..	+ 4.0733	+ 0.0200	...	+ 7.169	- 0.557	...	...
441	... ..	+ 4.0887	+ 0.0198	...	+ 7.005	- 0.561	...	...
442	Stone 9094 ...	+ 4.0933	+ 0.0199	...	+ 6.964	- 0.562	...	...
443	... ..	+ 3.9691	+ 0.0175	...	+ 6.958	- 0.547	...	...
444	... ..	+ 3.9070	+ 0.0176	...	+ 6.760	- 0.551	...	...
445	... ..	+ 4.2424	+ 0.0220	...	+ 6.730	- 0.585	...	...
446	... ..	+ 4.0519	+ 0.0182	...	+ 6.659	- 0.560	...	...
447	Taylor 7793 ...	+ 4.0396	+ 0.0175	...	+ 6.476	- 0.560	...	...
448	Taylor 7821 ...	+ 4.1128	+ 0.0181	...	+ 6.237	- 0.572	...	...
449	... ..	+ 4.2273	+ 0.0197	...	+ 6.118	- 0.590	...	...
450	... ..	+ 3.9397	+ 0.0149	...	+ 6.019	- 0.550	...	...
451	... ..	+ 4.0846	+ 0.0171	...	+ 6.008	- 0.571	...	...
452	Stone 9263 ...	+ 4.1463	+ 0.0168	...	+ 5.595	- 0.582	...	...
453	Taylor 7899 ...	+ 4.0279	+ 0.0145	...	+ 5.378	- 0.567	...	...
454	22 Ursæ Minoris ϵ ...	- 6.3700	+ 0.3100	+ 0.009	+ 5.350	+ 0.893	+ 0.00	2201
455	... ..	+ 4.2585	+ 0.0175	...	+ 5.248	- 0.601	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	R. P. L. 113	8.0	...	17	2	12.14	5	8	30.4	4	0.56
457	Stone 9348	6.8	...	17	4	10.20	128	40	25.0	5	0.56
458	... ..	8.5	...	17	6	11.85	181	19	58.9	3	0.59
459	Stone 9389	8.0	...	17	8	55.65	129	17	42.5	3	0.61
460	Stone 9428	7.0	...	17	12	12.66	155	34	58.1	3	0.63
461	Stone 9431	7.5	...	17	12	39.21	127	53	43.2	5	0.59
462	... ..	7.5	1	17	14	34.43	131	58	15.4	1	0.49
463	Stone 9448	7.3	...	17	14	37.35	128	4	59.6	1	0.56
464	49 Ophiuchi σ	4.4	...	17	20	39.62	85	45	21.4	17	0.57
465	Lacaille 7320	7.5	...	17	24	32.60	135	25	19.3	1	0.64
466	Lacaille 7329	7.5	...	17	25	31.87	134	55	11.2	2	0.63
467	Lacaille 7346	7.3	...	17	28	3.02	134	48	0.3	1	0.63
468	... ..	7.3	2	17	28	3.29	134	29	8.4	4	0.60
469	55 Ophiuchi α	2.2	...	17	29	27.34	77	21	10.8	5	0.53
470	R. P. L. 120	7.3	...	17	31	57.65	5	17	21.2	3	0.57
471	Brisbane 6151	7.8	...	17	32	0.09	134	36	15.5	3	0.61
472	Lacaille 7400	7.5	...	17	35	58.28	135	59	10.9	1	0.66
473	60 Ophiuchi β	2.9	...	17	37	38.55	85	22	56.6	10	0.60
474	Stone 9699	7.5	...	17	41	34.69	125	20	11.5	5	0.63
475	ι^a Scorpii	5.6	...	17	41	55.81	130	3	2.2	1	0.40
476	... ..	8.5	...	17	47	36.30	128	39	12.9	5	0.60
477	Stone 9776	7.0	...	17	49	59.39	125	59	23.6	5	0.58
478	... ..	8.3	2	17	50	23.23	151	21	10.9	2	0.61
479	... ..	8.7	5	17	55	12.30	126	32	32.5	5	0.60
480	... ..	8.5	1	17	56	32.26	128	56	59.8	4	0.62
481	72 Ophiuchi ^r	3.8	...	18	1	45.24	80	27	6.7	21	0.60
482	... ..	8.5	1	18	5	46.39	133	7	13.2	1	0.64
483	Stone 9922	8.5	...	18	5	49.31	133	10	57.0	1	0.71
484	... ..	8.5	1	18	9	0.91	131	16	21.2	1	0.66
485	... ..	8.0	2	18	10	17.16	126	23	40.2	4	0.62
486	23 Ursæ Minoris δ	4.3	...	18	10	23.35	3	23	27.3	5	0.39
487	24 Ursæ Minoris	5.9	...	18	14	27.72	3	0	39.6	5	0.25
488	58 Serpentis η	3.4	...	18	15	12.21	92	55	42.2	8	0.58
489	... ..	8.0	...	18	15	37.93	138	50	56.0	1	0.64
490	... ..	8.0	4	18	16	28.95	127	17	7.7	4	0.63

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.	
456	R. P. L. 118 ...	- 11.3153	+ 0.7042	...	+ 5.004	+ 1.595	...	...
457	Stone 9348 ...	+ 4.1108	+ 0.0143	...	+ 4.836	- 0.583	...	...
458	... ..	+ 4.2159	+ 0.0150	...	+ 4.655	- 0.600	...	...
459	Stone 9389 ...	+ 4.1393	+ 0.0134	...	+ 4.431	- 0.590	...	...
460	Stone 9428 ...	+ 5.9534	+ 0.0431	...	+ 4.151	- 0.851	...	...
461	Stone 9431 ...	+ 4.0908	+ 0.0121	...	+ 4.113	- 0.586	...	...
462	... ..	+ 4.2513	+ 0.0134	...	+ 3.948	- 0.609	...	...
463	Stone 9448 ...	+ 4.0905	+ 0.0118	...	+ 3.944	- 0.588	...	...
464	49 Ophiuchi σ ...	+ 2.9746	+ 0.0037	- 0.002	+ 3.425	- 0.428	- 0.02	2206
465	Lacaille 7320 ...	+ 4.4128	+ 0.0122	...	+ 3.090	- 0.636	...	...
466	Lacaille 7329 ...	+ 4.3904	+ 0.0117	...	+ 3.004	- 0.634	...	...
467	Lacaille 7346 ...	+ 4.3870	+ 0.0109	...	+ 2.786	- 0.634	...	...
468	... ..	+ 4.3727	+ 0.0108	...	+ 2.785	- 0.632	...	...
469	55 Ophiuchi α ...	+ 2.7750	+ 0.0030	+ 0.007	+ 2.655	- 0.402	+ 0.22	2218
470	R. P. L. 120 ...	- 11.2606	+ 0.3378	...	+ 2.447	+ 1.629	...	...
471	Brisbane 6151 ...	+ 4.3811	+ 0.0097	...	+ 2.443	- 0.635	...	...
472	Lacaille 7400 ...	+ 4.4484	+ 0.0090	...	+ 2.099	- 0.646	...	...
473	60 Ophiuchi β ...	+ 2.9649	+ 0.0030	- 0.004	+ 1.953	- 0.431	- 0.17	2220
474	Stone 9699 ...	+ 4.0172	+ 0.0054	...	+ 1.610	- 0.585	...	...
475	ι^a Scorpii ...	+ 4.1926	+ 0.0059	...	+ 1.579	- 0.610	...	...
476	... ..	+ 4.1401	+ 0.0044	...	+ 1.084	- 0.603	...	...
477	Stone 9776 ...	+ 4.0423	+ 0.0037	...	+ 0.876	- 0.589	...	...
478	... ..	+ 5.5174	+ 0.0077	...	+ 0.841	- 0.804	...	...
479	... ..	+ 4.0629	+ 0.0027	...	+ 0.420	- 0.592	...	...
480	... ..	+ 4.1529	+ 0.0024	...	+ 0.303	- 0.605	...	...
481	72 Ophiuchi ...	+ 2.8474	+ 0.0019	- 0.006	- 0.153	- 0.415	- 0.09	2275
482	... ..	+ 4.3239	- 0.0001	...	- 0.505	- 0.630	...	...
483	Stone 9922 ...	+ 4.3266	- 0.0001	...	- 0.509	- 0.631	...	...
484	... ..	+ 4.2447	- 0.0008	...	- 0.789	- 0.619	...	...
485	... ..	+ 4.0568	- 0.0006	...	- 0.899	- 0.591	...	...
486	23 Ursæ Minoris δ ...	- 19.4679	- 0.3015	+ 0.026	- 0.909	+ 2.836	- 0.04	2395
487	24 Ursæ Minoris ...	- 22.2917	- 0.5435	+ 0.067	- 1.265	+ 3.243	+ 0.02	2417
488	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.330	- 0.456	+ 0.68	2298
489	... ..	+ 4.5985	- 0.0042	...	- 1.367	- 0.668	...	...
490	... ..	+ 4.0877	- 0.0020	...	- 1.441	- 0.594	...	...

Mean Positions of Stars for 1882, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
491	Stone 10028 ...	6.8	...	18	18	6.05	124	0	31.2	5	0.59
492	22 Sagittarii λ ...	3.1	...	18	20	41.32	115	29	5.1	14	0.64
493	Lalande 34128 ...	5.7	...	18	22	12.79	83	52	37.4	1	0.62
494	... ..	8.0	2	18	25	39.71	126	53	26.6	4	0.60
495	Stone 10116 ...	6.9	...	18	28	35.07	137	10	5.2	5	0.69
496	Stone 10154 ...	8.0	...	18	32	7.95	134	16	36.6	3	0.68
497	β Lyræ <i>a</i> (<i>Vega</i>) ...	0.2	...	18	32	56.45	51	19	30.1	5	0.64
498	Stone 10175 ...	7.0	...	18	34	42.92	129	23	47.3	4	0.58
499	Stone 10182 ...	6.8	...	18	36	8.90	126	40	53.0	5	0.64
500	Taylor 8615 ...	5.5	...	18	39	29.71	130	31	48.5	5	0.66
501	Stone 10216 ...	7.3	...	18	40	6.94	129	43	44.1	5	0.64
502	... ..	8.0	...	18	43	5.66	127	22	56.2	4	0.65
503	... ..	8.0	4	18	46	25.13	130	43	26.1	5	0.67
504	... ..	8.7	3	18	47	2.22	125	52	31.5	4	0.69
505	... ..	8.0	1	18	47	3.61	126	30	42.2	1	0.64
506	Stone 10307 ...	7.3	...	18	50	40.57	124	22	11.4	5	0.60
507	ϵ Coronæ Australis ...	5.3	...	18	50	45.90	127	15	34.9	1	0.55
508	R. P. L. 131 ...	6.5	...	18	53	21.46	3	26	35.7	5	0.22
509	Stone 10334 ...	6.9	...	18	53	47.86	132	4	28.2	5	0.63
510	13 Aquilæ ϵ ...	4.1	...	18	54	15.94	75	5	27.5	10	0.66
511	Stone 10354 ...	7.8	...	18	55	55.95	128	14	9.4	5	0.70
512	... ..	6.8	...	18	58	53.46	127	58	37.7	5	0.59
513	β Coronæ Australis ...	4.1	...	19	1	54.85	129	31	35.5	1	0.55
514	... ..	8.0	4	19	3	16.72	136	20	5.3	5	0.67
515	... ..	8.3	5	19	3	30.39	135	29	25.0	5	0.70
516	... ..	8.5	...	19	4	5.94	135	27	45.4	2	0.73
517	... ..	8.5	3	19	4	59.10	133	10	50.8	4	0.68
518	Stone 10425 ...	7.3	...	19	5	4.06	128	52	32.4	5	0.59
519	Stone 10432 ...	6.3	...	19	6	4.53	135	23	27.5	3	0.72
520	... ..	7.5	3	19	7	37.38	129	24	9.7	3	0.69
521	... ..	7.0	2	19	10	30.10	136	14	8.1	4	0.66
522	... ..	8.5	5	19	16	11.61	126	9	54.9	5	0.69
523	Stone 10506 ...	7.0	...	19	16	29.27	134	25	15.9	5	0.63
524	... ..	8.5	2	19	17	2.64	130	4	42.5	3	0.75
525	Stone 10513 ...	7.0	...	19	18	2.12	136	48	35.6	5	0.67

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.	
491	Stone 10028 ...	+ 3·9716	- 0·0019	...	- 1·581	- 0·577	...	...
492	22 Sagittarii λ ...	+ 3·7070	- 0·0013	- 0·005	- 1·807	- 0·537	+ 0·20	2310
493	Lalande 34128 ...	+ 2·9298	+ 0·0011	...	- 1·041	- 0·424	...	...
494	... ..	+ 4·0695	- 0·0040	...	- 2·240	- 0·589	...	...
495	Stone 10116 ...	+ 4·5033	- 0·0079	...	- 2·405	- 0·651	...	...
496	Stone 10154 ...	+ 4·3631	- 0·0079	...	- 2·803	- 0·630	...	...
497	3 Lyræ α ...	+ 2·0133	+ 0·0016	+ 0·017	- 2·872	- 0·290	- 0·30	2341
498	Stone 10175 ...	+ 4·1577	- 0·0067	...	- 3·026	- 0·599	...	...
499	Stone 10182 ...	+ 4·0612	- 0·0062	...	- 3·151	- 0·584	...	...
500	Taylor 8615 ...	+ 4·1985	- 0·0083	...	- 3·438	- 0·602	...	...
501	Stone 10216 ...	+ 4·1664	+ 0·0081	...	- 3·403	- 0·598	...	...
502	... ..	+ 4·0758	- 0·0078	...	- 3·740	- 0·582	...	...
503	... ..	+ 4·1997	- 0·0100	...	- 4·034	- 0·508	...	...
504	... ..	+ 4·0189	- 0·0081	...	- 4·037	- 0·572	...	...
505	... ..	+ 4·0466	- 0·0084	...	- 4·088	- 0·576	...	...
506	Stone 10307 ...	+ 3·9644	- 0·0083	...	- 4·398	- 0·562	...	...
507	ϵ Coronæ Australis ...	+ 4·0644	- 0·0094	...	- 4·405	- 0·577	...	...
508	R. P. L. 131 ...	- 18·5466	- 1·4891	...	- 4·627	+ 2·633	...	...
509	Stone 10334 ...	+ 4·2461	- 0·0125	...	- 4·664	- 0·601	...	...
510	13 Aquilæ ϵ ...	+ 2·7263	+ 0·0004	- 0·005	- 4·704	- 0·385	+ 0·08	2390
511	Stone 10354 ...	+ 4·0346	- 0·0109	...	- 4·845	- 0·578	...	...
512	... ..	+ 4·0817	- 0·0114	...	- 5·097	- 0·574	...	...
513	β Coronæ Australis...	+ 4·1354	- 0·0130	- 0·005	- 5·350	- 0·579	+ 0·07	Stone
514	... ..	+ 4·4199	- 0·0180	...	- 5·467	- 0·619	...	...
515	... ..	+ 4·3805	- 0·0176	...	- 5·488	- 0·613	...	...
516	... ..	+ 4·3782	- 0·0176	...	- 5·535	- 0·612	...	...
517	... ..	+ 1·2768	- 0·0159	...	- 5·611	- 0·597	...	...
518	Stone 10425 ...	+ 4·1070	- 0·0132	...	- 5·617	- 0·573	...	...
519	Stone 10432 ...	+ 4·3717	- 0·0179	...	- 5·702	- 0·610	...	...
520	... ..	+ 4·1232	- 0·0141	...	- 5·831	- 0·574	...	...
521	... ..	+ 4·4027	- 0·0200	...	- 6·072	- 0·609	...	...
522	... ..	+ 3·9960	- 0·0138	...	- 6·544	- 0·548	...	...
523	Stone 10506 ...	+ 4·3102	- 0·0198	...	- 6·570	- 0·592	...	...
524	... ..	+ 4·1343	- 0·0166	...	- 6·616	- 0·567	...	...
525	Stone 10513 ...	+ 4·4147	- 0·0226	...	- 6·696	- 0·605	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitnde.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
526	Stone 10542	7.5	...	19	23	30.53	132	40	29.6	5	0.69
527	Stone 10546	8.0	...	19	23	58.37	126	12	17.4	4	0.61
528	... ..	8.5	1	19	25	45.19	133	42	54.0	2	0.76
529	Stone 10561	6.0	...	19	26	2.87	130	17	11.2	5	0.70
530	52 Sagittarii κ^a	4.6	...	19	29	31.39	115	8	33.6	5	0.65
531	... ..	7.7	3	19	30	7.64	129	1	11.5	5	0.62
532	Stone 10622	6.1	...	19	35	44.50	127	48	54.6	5	0.71
533	... ..	8.0	8	19	36	34.09	128	7	24.7	5	0.66
534	R. P. L. 133	7.9	...	19	36	0.80	4	9	28.1	6	0.42
535	... ..	8.0	2	19	39	44.90	125	27	44.3	2	0.75
536	R. P. L. 134	8.5	...	19	39	48.75	4	9	39.1	4	0.64
537	... ..	7.8	3	19	42	30.41	132	9	14.0	5	0.63
538	Taylor 9112	5.6	...	19	43	49.51	130	10	19.5	2	0.74
539	53 Aquilæ α (<i>Altair</i>)	1.0	...	19	45	1.53	81	26	31.6	10	0.68
540	Taylor 9131	7.0	...	19	47	11.69	148	14	0.0	3	0.70
541	... ..	8.5	2	19	48	5.47	132	0	1.6	2	0.71
542	60 Aquilæ β	4.0	...	19	49	31.05	83	53	13.6	3	0.65
543	... ..	7.5	3	19	50	14.84	132	59	44.7	4	0.74
544	Taylor 9171	5.9	...	19	52	26.48	135	25	59.3	5	0.70
545	Stone 10753	7.5	...	19	54	36.48	131	44	34.9	5	0.63
546	... ..	9.3	1	19	58	25.69	148	10	43.5	2	0.78
547	... ..	8.0	3	19	58	39.28	134	38	18.9	5	0.75
548	... ..	8.6	4	20	0	52.29	131	1	57.8	5	0.63
549	65 Aquilæ θ	3.4	...	20	5	12.94	91	10	13.6	12	0.71
550	Stone 10833	8.0	...	20	6	49.26	134	2	0.2	3	0.74
551	Stone 10836	7.2	...	20	8	14.38	131	50	12.1	5	0.78
552	Stone 10858	7.5	...	20	10	44.00	134	53	22.4	2	0.69
553	... ..	8.5	2	20	13	21.04	135	21	22.1	3	0.74
554	R. P. L. 138	7.1	...	20	16	25.99	5	40	42.6	15	0.42
555	... ..	7.4	5	20	19	2.90	135	8	34.2	5	0.70
556	... ..	7.5	2	20	20	2.57	130	23	53.4	2	0.72
557	... ..	8.5	2	20	21	25.19	133	19	44.6	4	0.77
558	R. P. L. 143	6.7	...	20	27	8.02	5	14	54.1	7	0.26
559	2 Delphini ϵ	4.1	...	20	27	34.47	79	5	49.0	13	0.71
560	Stone 10972	6.8	...	20	27	42.80	134	44	32.3	5	0.71

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.	
526	Stone 10542 ...	+ 4.2240	- 0.0200	...	- 7.146	- 0.573	...	...
527	Stone 10546 ...	+ 3.9860	- 0.0152	...	- 7.184	- 0.540	...	...
528	... ..	+ 4.2621	- 0.0214	...	- 7.329	- 0.576	...	...
529	Stone 10561 ...	+ 4.1266	- 0.0186	...	- 7.355	- 0.557	...	...
530	52 Sagittarii λ^a ...	+ 3.6525	- 0.0102	+ 0.002	- 7.636	- 0.490	+ 0.01	2478
531	... ..	+ 4.0730	- 0.0184	...	- 7.684	- 0.546	...	...
532	Stone 10622 ...	+ 4.0194	- 0.0184	...	- 8.136	- 0.534	...	...
533	... ..	+ 4.0208	- 0.0188	...	- 8.202	- 0.533	...	...
534	R. P. L. 133 ...	- 13.6626	- 1.6822	...	- 8.317	+ 1.817	...	...
535	... ..	+ 3.9358	- 0.0175	...	- 8.455	- 0.517	...	...
536	R. P. L. 134 ...	- 13.5895	- 1.7016	...	- 8.460	+ 1.800	...	...
537	... ..	+ 4.1630	- 0.0236	...	- 8.673	- 0.544	...	...
538	Taylor 9112 ...	+ 4.0871	- 0.0218	...	- 8.777	- 0.533	...	...
539	53 Aquilæ α ...	+ 2.8919	- 0.0014	+ 0.035	- 8.871	- 0.374	- 0.38	2524
540	Taylor 9131 ...	+ 4.9994	- 0.0530	...	- 9.041	- 0.648	...	...
541	... ..	+ 4.1447	- 0.0245	...	- 9.111	- 0.535	...	...
542	60 Aquilæ β ...	+ 2.9452	- 0.0020	+ 0.001	- 9.222	- 0.378	+ 0.47	2538
543	... ..	+ 4.1774	- 0.0256	...	- 9.278	- 0.537	...	...
544	Taylor 9171 ...	+ 4.2603	- 0.0203	...	- 9.440	- 0.546	...	...
545	Stone 10758 ...	+ 4.1192	- 0.0255	...	- 9.615	- 0.524	...	...
546	... ..	+ 4.9450	- 0.0572	...	- 9.908	- 0.623	...	...
547	... ..	+ 4.2194	- 0.0206	...	- 9.925	- 0.532	...	...
548	... ..	+ 4.0777	- 0.0257	...	- 10.093	- 0.511	...	...
549	65 Aquilæ θ ...	+ 3.0957	- 0.0042	...	- 10.419	- 0.382	...	...
550	Stone 10833 ...	+ 4.1719	- 0.0304	...	- 10.536	- 0.514	...	...
551	Stone 10836 ...	+ 4.0867	- 0.0278	...	- 10.645	- 0.501	...	...
552	Stone 10858 ...	+ 4.1932	- 0.0323	...	- 10.830	- 0.511	...	...
553	... ..	+ 4.2032	- 0.0334	...	- 11.021	- 0.508	...	...
554	R. P. L. 138 ...	- 8.0602	- 1.0518	...	- 11.246	+ 0.978	...	...
555	... ..	+ 4.1761	- 0.0340	...	- 11.435	- 0.496	...	...
556	... ..	+ 4.0041	- 0.0280	...	- 11.505	- 0.474	...	...
557	... ..	+ 4.1009	- 0.0318	...	- 11.604	- 0.484	...	...
558	R. P. L. 143 ...	- 8.5841	- 1.2823	...	- 12.008	+ 1.008	...	...
559	2 Delphini ϵ ...	+ 2.8664	- 0.0013	- 0.001	- 12.039	- 0.330	+ 0.02	2642
560	Stone 10972 ...	+ 4.1315	- 0.0349	...	- 12.048	- 0.478	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
561	Taylor 9519	6.4	...	20	33	30.84	132	32	58.4	2	0.70
562	...	8.1	5	20	35	2.10	131	16	45.4	5	0.72
563	...	8.0	1	20	37	34.69	126	31	56.8	1	0.70
564	Taylor 9570	6.8	...	20	38	47.41	126	32	49.1	5	0.80
565	2 Aquarii ϵ	3.8	...	20	41	17.20	99	55	36.5	9	0.73
566	...	8.0	...	20	41	40.06	132	8	48.6	4	0.69
567	Stone 11081	7.5	...	20	43	55.72	131	20	42.4	4	0.76
568	...	8.0	2	20	45	18.29	135	45	39.0	2	0.72
569	Taylor 9666	6.8	...	20	49	51.05	184	32	59.2	5	0.69
570	76 Draconis	5.6	...	20	51	2.68	7	54	24.9	6	0.33
571	...	8.0	2	20	52	28.85	129	10	47.4	3	0.78
572	Stone 11150	8.0	...	20	53	30.58	129	11	44.9	4	0.79
573	...	8.0	5	20	56	40.30	127	59	36.7	5	0.70
574	Stone 11186	7.3	...	20	57	40.21	127	41	45.2	3	0.81
575	η Microscopii	6.0	...	20	58	44.48	131	51	18.4	1	0.69
576	23 Capricorni θ	4.3	...	20	59	18.75	107	42	4.7	10	0.77
577	...	8.0	1	21	0	8.69	150	59	54.0	1	0.73
578	...	8.5	4	21	4	10.15	128	26	21.3	5	0.74
579	64 Cygni ζ	3.5	...	21	7	54.76	60	15	22.9	4	0.72
580	Stone 11285	7.3	...	21	10	20.52	129	19	19.8	5	0.70
581	5 Cephei α (<i>Alderamin</i>)	2.6	...	21	15	45.21	27	54	49.8	1	0.84
582	...	7.0	3	21	16	35.61	130	31	59.4	5	0.75
583	...	8.3	4	21	18	44.04	152	36	36.4	4	0.84
584	...	7.5	5	21	19	17.60	132	34	56.9	5	0.73
585	Stone 11371	7.3	...	21	22	10.23	128	35	55.6	5	0.76
586	R. P. L. 149	7.5	...	21	22	56.71	3	27	14.9	18	0.50
587	...	7.5	5	21	28	57.92	134	22	26.0	5	0.78
588	Stone 11434	6.7	...	21	32	21.97	133	39	50.0	3	0.86
589	Stone 11470	7.3	...	21	37	42.68	128	58	54.0	2	0.86
590	...	9.0	3	21	38	9.37	148	12	57.6	5	0.75
591	...	8.5	5	21	39	0.25	133	28	48.0	5	0.71
592	...	8.0	...	21	39	41.22	126	15	3.2	4	0.78
593	...	7.3	5	21	40	40.82	130	47	24.6	5	0.85
594	γ Grus	3.0	...	21	46	46.81	127	55	8.3	4	0.86
595	Stone 11535	7.3	...	21	48	21.77	135	48	16.3	5	0.72

580.—Lacaille 8760. This star apparently has a large proper motion.

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.	
561	Taylor 9519 ...	+ 4.0344	- 0.0324	...	- 12.450	- 0.457	...	...
562	... ..	+ 3.9874	- 0.0310	...	- 12.555	- 0.440	...	...
563	... ..	+ 3.8379	- 0.0239	...	- 12.738	- 0.420	...	...
564	Taylor 9570 ...	+ 3.8348	- 0.0259	...	- 12.809	- 0.426	...	...
565	2 Aquarii ϵ ...	+ 3.2507	- 0.0084	- 0.000	- 12.976	- 0.356	+ 0.03	2681
566	... ..	+ 3.99 ³ / ₁₅	- 0.0330	...	- 13.001	- 0.439	...	...
567	Stone 11081 ...	+ 3.9604	- 0.0321	...	- 13.152	- 0.431	...	...
568	... ..	+ 4.1034	- 0.0387	...	- 13.242	- 0.444	...	...
569	Taylor 9666 ...	+ 4.0432	- 0.0374	- 0.043	- 13.530	- 0.430	+ 0.91	Stone
570	76 Draconis ...	- 3.9948	- 0.5273	+ 0.014	- 13.615	+ 0.434	- 0.01	2754
571	... ..	+ 3.8676	- 0.0301	...	- 13.707	- 0.407	...	...
572	Stone 11150 ...	+ 3.8649	- 0.0302	...	- 13.773	- 0.405	...	...
573	... ..	+ 3.8215	- 0.0291	...	- 13.973	- 0.395	...	...
574	Stone 11186 ...	+ 3.8103	- 0.0288	...	- 14.035	- 0.392	...	...
575	η Microscopii ...	+ 3.9238	- 0.0341	- 0.002	- 14.102	- 0.402	+ 0.06	Stone
576	23 Capricorni θ ...	+ 3.3749	- 0.0128	+ 0.004	- 14.137	- 0.344	+ 0.05	2733
577	... ..	+ 4.7763	- 0.0859	...	- 14.189	- 0.488	...	...
578	... ..	+ 3.8139	- 0.0301	...	- 14.436	- 0.383	...	...
579	64 Cygni ζ ...	+ 2.5512	+ 0.0038	- 0.002	- 14.661	- 0.248	+ 0.07	2760
580	Stone 11285 ...	+ 3.8110	- 0.0316	...	- 14.806	- 0.370	...	...
581	5 Cephei α ...	+ 1.4149	- 0.0071	+ 0.021	- 15.121	- 0.130	- 0.03	2786
582	... ..	+ 3.8201	- 0.0335	...	- 15.169	- 0.358	...	...
583	... ..	+ 4.7416	- 0.1000	...	- 15.201	- 0.442	...	...
584	... ..	+ 3.8649	- 0.0366	...	- 15.322	- 0.358	...	...
585	Stone 11371 ...	+ 3.7504	- 0.0314	...	- 15.484	- 0.342	...	...
586	R. P. L. 149 ...	- 10.9453	- 3.1121	...	- 15.527	+ 1.017	...	...
587	... ..	+ 3.8733	- 0.0398	...	- 15.855	- 0.340	...	...
588	Stone 11434 ...	+ 3.8386	- 0.0389	...	- 16.035	- 0.330	...	...
589	Stone 11470 ...	+ 3.7015	- 0.0323	...	- 16.312	- 0.308	...	...
590	... ..	+ 4.8241	- 0.0761	...	- 16.334	- 0.360	...	...
591	... ..	+ 3.8040	- 0.0387	...	- 16.377	- 0.314	...	...
592	... ..	+ 3.6357	- 0.0289	...	- 16.412	- 0.299	...	...
593	... ..	+ 3.7311	- 0.0358	...	- 16.461	- 0.305	...	...
594	γ Gruis ...	+ 3.6442	- 0.0310	+ 0.005	- 16.760	- 0.286	+ 0.02	Stone
595	Stone 11535 ...	+ 3.8193	- 0.0427	...	- 16.836	- 0.297	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
596	... ..	7.0	5	21	49	54.56	128	13	5.8	7	0.80
597	Taylor 10179	7.8	...	21	50	11.48	128	19	12.7	2	0.79
598	... ..	8.5	2	21	52	1.80	132	36	19.2	2	0.86
599	... ..	7.5	1	21	52	44.91	131	6	13.6	1	0.86
600	... ..	7.5	5	21	54	53.14	127	44	30.2	5	0.71
601	... ..	8.0	5	21	58	12.36	127	53	11.7	5	0.84
602	Stone 11801	6.9	...	21	58	45.34	134	32	17.9	3	0.86
603	α Gruis	1.9	...	22	0	47.30	137	31	56.4	9	0.78
604	... ..	7.5	4	22	2	1.85	126	37	56.2	5	0.72
605	... ..	8.0	5	22	6	30.24	131	43	6.3	5	0.84
606	... ..	8.0	3	22	6	57.09	135	17	39.2	4	0.74
607	... ..	8.7	5	22	8	42.75	132	52	6.5	5	0.75
608	α Tucanae	2.8	...	22	10	24.20	150	50	51.8	3	0.86
609	48 Aquarii γ	4.1	...	22	15	33.61	91	58	53.4	19	0.77
610	... ..	8.0	5	22	19	5.91	130	43	8.3	5	0.70
611	R. P. L. 150	5.5	...	22	22	31.17	4	29	11.3	1	0.72
612	55 Aquarii ζ^1	4.7	...	22	22	45.22	90	37	23.3	4	0.87
613	R. P. L. 151	6.9	...	22	22	56.33	4	22	18.8	3	0.78
614	... ..	7.1	4	22	26	41.44	126	2	50.8	5	0.75
615	R. P. L. 153	7.6	...	22	27	1.91	2	31	8.5	7	0.21
616	R. P. L. 152	7.2	...	22	28	11.43	5	32	27.2	20	0.53
617	... ..	7.0	4	22	28	12.23	150	28	16.6	5	0.81
618	T Aquarii, Var. 3	10.5	3	22	29	41.21	98	13	4.4	2	0.88
619	... ..	8.1	5	22	35	13.23 75.61	142	40	56.8	5	0.81
620	... ..	8.0	4	22	36	11.16	143	1	48.9	5	0.81
621	... ..	7.2	3	22	36	27.97	130	37	31.3	5	0.77
622	44 Pegasi η	3.1	...	22	37	28.09	60	23	43.2	3	0.87
623	... ..	8.5	...	22	40	59.04	132	10	24.0	5	0.81
624	... .. (2nd Star)	7.5	5	22	45	44.53	133	24	49.2	5	0.81
625	73 Aquarii λ	3.8	...	22	46	27.36	98	12	26.8	12	0.81
626	24 Pis. Aust. α (Fomalhaut)	1.3	...	22	51	7.58	120	14	50.4	18	0.85
627	Stone 12002	7.5	...	22	58	14.74	126	31	56.3	4	0.87
628	... ..	8.5	...	22	58	25.28	155	58	35.2	1	0.76
629	Lacaille 9360—2nd	7.0	...	22	59	3.35	133	42	55.5	1	0.82
630	R. P. L. 155	9.0	...	23	24	18.01	4	13	56.6	20	0.56

611.—Groombridge 3820.

615.—Carrington 3466.

613.—Groombridge 3824.

616.—Carrington 3458.

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.	
596	...	+ 3.6386	- 0.0314	...	- 16.911	- 0.279	...	...
597	Taylor 10179	+ 3.6398	- 0.0315	...	- 16.923	- 0.279	...	...
598	...	+ 3.7288	- 0.0375	...	- 17.008	- 0.282	...	...
599	...	+ 3.6871	- 0.0353	...	- 17.041	- 0.277	...	...
600	...	+ 3.6097	- 0.0307	...	- 17.140	- 0.267	...	...
601	...	+ 3.5993	- 0.0333	...	- 17.288	- 0.260	...	...
602	Stone 11601	+ 3.7363	- 0.0405	...	- 17.312	- 0.269	...	...
603	α Gruis	+ 3.7983	- 0.0457	+ 0.011	- 17.402	- 0.270	+ 0.15	Stone.
604	...	+ 3.5617	- 0.0294	...	- 17.455	- 0.249	...	...
605	...	+ 3.6388	- 0.0359	...	- 17.645	- 0.245	...	...
606	...	+ 3.7120	- 0.0406	...	- 17.604	- 0.249	...	...
607	...	+ 3.6515	- 0.0376	...	- 17.736	- 0.242	...	...
608	α Tucanæ	+ 4.1760	- 0.0858	- 0.007	- 17.802	- 0.274	+ 0.04	Stone.
609	48 Aquarii γ	+ 3.0927	- 0.0042	+ 0.007	- 18.007	- 0.191	- 0.02	2943
610	...	+ 3.5627	- 0.0341	...	- 18.142	- 0.214	...	...
611	R. P. L. 150	- 3.9581	- 1.2407	+ 0.052	- 18.267	+ 0.246	- 0.04	2993
612	55 Aquarii ζ^1	+ 3.0784	- 0.0038	+ 0.011	- 18.275	- 0.178	- 0.04	2960
613	R. P. L. 151	- 4.1138	- 1.3100	+ 0.025	- 18.282	+ 0.254	- 0.01	2997
614	...	+ 3.4576	- 0.0281	...	- 18.415	- 0.193	...	...
615	R. P. L. 153	- 8.9190	- 4.2017	...	- 18.426	+ 0.516	...	...
616	R. P. L. 152	- 2.3019	- 0.7080	...	- 18.466	+ 0.139	...	...
617	...	+ 3.9925	- 0.0810	...	- 18.465	- 0.220	...	...
618	T Aquarii	+ 3.1465	- 0.0072	...	- 18.517	- 0.170	...	...
619	...	+ 4.0081	- 0.0895	...	- 18.697	- 0.205	...	...
620	...	+ 3.8382	- 0.0700	...	- 18.728	- 0.194	...	...
621	...	+ 3.4812	- 0.0331	...	- 18.737	- 0.174	...	...
622	44 Pegasi η	+ 2.8046	+ 0.0108	+ 0.000	- 18.767	- 0.137	+ 0.03	3003
623	...	+ 3.4817	- 0.0348	...	- 18.874	- 0.165	...	...
624	... (2nd Star)	+ 3.4750	- 0.0362	...	- 19.011	- 0.154	...	...
625	73 Aquarii λ	+ 3.1332	- 0.0063	- 0.002	- 19.030	- 0.137	- 0.04	3019
626	24 Piscis Australis α ...	+ 3.3031	- 0.0210	+ 0.023	- 19.155	- 0.135	+ 0.16	3032
627	Stone 12002	+ 3.3361	- 0.0269	+ 0.567	- 19.329	- 0.124	- 1.31	Stone.
628	...	+ 3.8686	- 0.1003	...	- 19.335	- 0.143	...	...
629	Lacaille 9360—2nd...	+ 3.4082	- 0.0352	...	- 19.349	- 0.124	...	...
630	R. P. L. 155	+ 0.2697	- 0.3276	...	- 19.811	+ 0.003	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
681	R. P. L. 158	5.7	...	28	27	49.96	3	20	88.4	7	0.20
682	85 Cephei γ	3.4	...	28	34	30.63	13	1	35.3	8	0.82
683	δ Sculptoris	4.6	...	28	42	46.61	118	46	59.2	18	0.86
684	... ..	9.0	1	28	51	31.70	142	51	17.1	1	0.80
685	W. B. E. XXIII. 1032	8.8	3	28	51	45.40	85	15	8.1	5	0.93
686	R. P. L. 162	7.0	...	28	53	58.79	3	57	2.3	20	0.57
687	W. B. E. XXIII. 1110	9.0	5	28	55	32.96	85	36	7.1	5	0.88
688	... ..	9.5	5	28	55	37.09	85	17	6.0	4	0.88

681.—Groombridge 4101.

685—687.—Comparison stars for Sappho in 1882.

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	R. P. L. 158 ...	- 0.1288	- 0.5471	+ 0.084	- 19.857	+ 0.011	- 0.00	3147
632	35 Caphei γ ...	+ 2.4310	+ 0.0748	- 0.020	- 19.930	- 0.031	- 0.14	3152
633	δ Sculptoris ...	+ 3.1275	- 0.0161	+ 0.009	- 19.997	- 0.026	+ 0.10	Stone
634	... ..	+ 3.1375	- 0.0398	...	- 20.040	- 0.008	...	...
635	W. B. E. XXIII. 1032.	+ 3.0684	+ 0.0039	...	- 20.041	- 0.008	...	...
636	R. P. L. 162 ...	+ 2.5640	+ 0.2911	+ 0.022	- 20.047	- 0.001	+ 0.03	3194
637	W. B. E. XXIII. 1110.	+ 3.0704	+ 0.0039	...	- 20.050	0.000	...	...
638	... ..	+ 3.0702	+ 0.0040	...	- 20.050	0.000	...	...