
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1883

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	Stone 8	7.0	4	0	1	22.50	116	0	13.7	5	0.89
2	6 Ceti	4.9	...	0	5	18.41	106	6	37.5	5	0.91
3	Stone 63	6.3	...	0	7	48.44	116	56	12.0	5	0.90
4	Taylor 37	5.9	...	0	10	13.68	122	5	44.5	5	0.91
5	8 Ceti	3.6	...	0	13	27.81	99	28	20.0	7	0.96
6	Stone 109	7.1	5	0	14	18.77	126	33	10.4	5	0.89
7	Taylor 78	6.8	5	0	18	31.00	92	52	0.0	5	0.91
8	Stone 158	6.5	...	0	21	22.79	116	11	41.0	5	0.90
9	Taylor 101	5.9	...	0	22	40.15	130	33	44.6	5	0.93
10	Taylor 115	5.2	...	0	24	31.68	114	26	7.7	5	0.88
11	Stone 237	7.0	4	0	32	53.40	136	32	49.6	5	0.88
12	Stone 240	7.0	5	0	33	16.91	133	56	19.4	5	0.96
13	Taylor 181	6.4	...	0	34	16.83	135	26	24.7	1	0.84
14	Taylor 215	6.4	...	0	39	25.06	133	18	52.2	5	0.88
15	W. B. E. O. 658	9.1	1	0	39	36.26	88	55	54.4	1	0.92
16	63 Piscium δ	4.6	...	0	42	36.69	83	3	6.6	7	0.94
17	... ..	9.0	1	0	42	38.72	89	0	20.4	1	0.91
18	... ..	9.0	1	0	43	53.51	88	58	5.9	1	0.93
19	Taylor 252	6.7	...	0	44	34.42	134	1	58.7	5	0.95
20	Stone 342	5.8	...	0	46	55.90	114	38	37.3	5	0.88
21	Stone 365	6.3	...	0	50	14.91	118	24	34.4	5	0.90
22	R. P. L. 10	6.6	...	0	51	27.96	1	36	16.7	2	0.86
23	... ..	7.0	1	0	52	8.16	131	53	18.5	1	0.86
24	2 Ursæ Minoris	4.5	...	0	52	57.38	4	22	15.0	1	0.91
25	Stone 392	5.6	...	0	55	50.20	129	32	56.5	5	0.88
26	R. P. L. 14	6.2	...	0	56	36.82	3	28	41.6	1	0.99
27	Stone 407	5.9	...	0	57	32.66	137	1	37.4	5	0.90
28	30 Ceti	5.8	...	1	1	53.10	100	24	42.7	5	0.89
29	43 Andromedæ β	2.2	...	1	3	10.92	54	59	58.7	2	0.91
30	Taylor 391	6.6	...	1	6	51.47	121	25	19.1	5	0.89
31	... ..	8.5	...	1	9	4.03	145	51	44.7	1	0.86
32	... ..	9.0	...	1	10	7.75	124	38	59.5	2	0.90
33	Stone 489	6.7	...	1	10	57.78	132	37	39.3	5	0.96
34	... ..	8.5	4	1	13	7.73	130	43	13.8	4	0.71
35	Taylor 428	6.9	...	1	13	33.16	133	56	58.4	5	0.90

15—17—18.—Comparison stars for Mars in 1862.

22.—Groombridge 144.

26.—Groombridge 195.

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	Stone 8	+ 3.0684	- 0.0126	...	- 20.054	+ 0.011	...	...
2	6 Ceti	+ 3.0634	- 0.0064	- 0.008	- 20.048	+ 0.019	+ 0.26	3222
3	Stone 63	+ 3.0492	- 0.0127	...	- 20.042	+ 0.023	...	...
4	Taylor 37	+ 3.0350	- 0.0158	...	- 20.034	+ 0.027	...	...
5	8 Ceti	+ 3.0593	- 0.0023	- 0.003	- 20.019	+ 0.034	+ 0.03	14
6	Stone 109	+ 3.0105	- 0.0186	...	- 20.015	+ 0.035	...	...
7	Taylor 78	+ 3.0669	+ 0.0014	...	- 19.989	+ 0.044	...	...
8	Stone 158	+ 3.0110	- 0.0111	...	- 19.966	+ 0.040	...	...
9	Taylor 101	+ 2.9594	- 0.0205	...	- 19.956	+ 0.051	...	...
10	Taylor 115	+ 3.0074	- 0.0097	...	- 19.939	+ 0.055	...	...
11	Stone 237	+ 2.8705	- 0.0233	...	- 19.848	+ 0.069	...	...
12	Stone 240	+ 2.8859	- 0.0213	...	- 19.843	+ 0.069	...	...
13	Taylor 181	+ 2.8700	- 0.0223	- 0.002	- 19.829	+ 0.071	+ 0.05	Stone.
14	Taylor 215	+ 2.8564	- 0.0198	...	- 19.757	+ 0.079	...	...
15	W. B. E. O. 658	+ 3.0767	+ 0.0046	...	- 19.753	+ 0.084	...	...
16	63 Piscium δ	+ 3.1024	+ 0.0079	+ 0.004	- 19.709	+ 0.091	+ 0.04	85
17	...	+ 3.0767	+ 0.0047	...	- 19.706	+ 0.089	...	...
18	...	+ 3.0771	+ 0.0048	...	- 19.687	+ 0.092	...	...
19	Taylor 252	+ 2.8225	- 0.0194	...	- 19.675	+ 0.087	...	...
20	Stone 342	+ 2.9477	- 0.0078	...	- 19.633	+ 0.095	...	...
21	Stone 365	+ 2.9150	- 0.0095	...	- 19.574	+ 0.100	...	...
22	R. P. L. 10	+ 13.6992	+ 8.2321	+ 0.153	- 19.550	+ 0.453	+ 0.03	65
23	...	+ 2.8019	- 0.0167	...	- 19.537	+ 0.099	...	...
24	2 Ursae Minoris	+ 7.0783	+ 1.3756	+ 0.068	- 19.521	+ 0.244	+ 0.01	92
25	Stone 392	+ 2.8060	- 0.0148	...	- 19.462	+ 0.106	...	...
26	R. P. L. 14	+ 8.1505	+ 2.1474	+ 0.054	- 19.445	+ 0.308	+ 0.02	95
27	Stone 407	+ 2.7158	- 0.0187	...	- 19.425	+ 0.106	...	...
28	30 Ceti	+ 3.0068	+ 0.0001	+ 0.009	- 19.327	+ 0.124	- 0.01	135
29	43 Andromedae β	+ 3.3272	+ 0.0286	+ 0.014	- 19.297	+ 0.139	+ 0.08	140
30	Taylor 391	+ 2.8375	- 0.0092	...	- 19.206	+ 0.126	...	...
31	...	+ 2.4871	- 0.0203	...	- 19.150	+ 0.115	...	...
32	...	+ 2.7040	- 0.0105	...	- 19.123	+ 0.130	...	...
33	Stone 489	+ 2.6974	- 0.0141	...	- 19.100	+ 0.127	...	...
34	...	+ 2.7114	- 0.0128	...	- 19.042	+ 0.131	...	...
35	Taylor 428	+ 2.6659	- 0.0142	...	- 19.030	+ 0.130	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
36	R. P. L. 18	7.9	...	1	13	38.26	2	2	52.1	1	0.99
37	1 Urs. Min. α (<i>Polaris</i>) ...	2.2	...	1	15	50.44	1	18	54.4	14	0.30
38	45 Ceti θ^1	3.8	...	1	18	10.40	98	47	15.8	2	0.00
39	93 Piscium ρ	5.2	...	1	19	57.00	71	26	23.9	1	0.96
40	... ..	9.7	2	1	20	7.23	122	56	18.7	2	0.98
41	Taylor 487	6.2	...	1	24	51.91	116	48	46.4	5	0.88
42	99 Piscium η	3.7	...	1	25	13.35	75	15	27.9	4	0.99
43	Stone 596	7.8	...	1	25	30.56	128	23	39.5	5	0.55
44	Taylor 524	6.3	...	1	29	48.49	147	36	1.8	5	0.91
45	α Eridani (<i>Achernar</i>) ...	1.0	...	1	33	21.53	147	49	51.4	1	0.99
46	... ..	7.0	4	1	33	27.39	138	31	50.6	4	0.00
47	106 Piscium ν	4.7	...	1	35	20.52	85	6	18.0	1	0.99
48	... ..	8.0	4	1	36	20.07	149	14	24.8	4	0.71
49	110 Piscium σ	4.4	...	1	39	12.89	81	25	55.1	10	0.91
50	Taylor 578	5.5	...	1	40	6.81	96	19	6.4	5	0.91
51	Stone 704	8.0	...	1	41	46.12	133	54	16.9	5	0.01
52	Taylor 616	6.1	...	1	46	22.07	140	47	8.4	5	0.89
53	6 Arietis β	2.8	...	1	48	10.61	69	45	51.7	13	0.95
54	Taylor 626	6.3	...	1	48	20.94	129	10	21.1	5	0.01
55	... ..	8.0	3	1	53	53.44	127	35	3.7	5	0.19
56	Stone 812	6.0	...	1	57	20.50	105	52	13.7	4	0.88
57	Stone 824	7.0	...	1	59	40.47	134	4	5.9	3	0.01
58	13 Arietis α	2.0	...	2	0	34.70	67	5	29.0	17	0.26
59	Stone 834	7.3	...	2	1	18.98	142	33	4.5	5	0.92
60	Stone 850	7.5	...	2	3	48.47	126	22	45.3	4	0.92
61	Stone 870	7.5	...	2	5	46.73	128	55	5.5	5	0.91
62	... ..	7.7	2	2	8	5.55	131	48	51.3	2	0.00
63	... ..	8.5	4	2	9	23.64	124	51	43.1	5	0.36
64	Taylor 750	6.1	...	2	9	47.80	131	42	43.9	1	0.01
65	67 Ceti	5.5	...	2	11	8.75	96	57	43.6	3	0.93
66	Stone 911	7.1	...	2	11	58.76	148	25	54.4	5	0.92
67	... ..	7.0	2	2	14	28.61	132	33	30.8	2	0.01
68	Stone 935	7.3	...	2	16	3.40	140	50	21.2	5	0.94
69	8.0	1	2	18	16.50	150	57	53.2	1	0.01
70	Stone 955	7.3	...	2	18	48.67	150	17	34.1	5	0.92

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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.	
36	R. P. L. 18 ...	+ 14.8806	+ 6.8872	...	- 19.028	+ 0.693	...	...
37	1 Ursæ Minoris α ...	+ 21.9951	+ 16.3900	+ 0.108	- 18.966	+ 1.050	+ 0.00	102
38	45 Ceti θ^1 ...	+ 3.0032	+ 0.0018	- 0.007	- 18.899	+ 0.154	+ 0.20	184
39	98 Piscium ρ ...	+ 3.2259	+ 0.0163	- 0.006	- 18.846	+ 0.168	- 0.03	185
40	... ..	+ 2.7757	- 0.0086	...	- 18.841	+ 0.146	...	...
41	Taylor 487 ...	+ 2.8279	- 0.0055	...	- 18.695	+ 0.157	...	...
42	99 Piscium η ...	+ 3.2001	+ 0.0141	- 0.000	- 18.683	+ 0.177	+ 0.00	203
43	Stone 596 ...	+ 2.6862	- 0.0100	...	- 18.674	+ 0.150	...	...
44	Taylor 524 ...	+ 2.2678	- 0.0140	...	- 18.533	+ 0.134	...	...
45	α Eridani ...	+ 2.2303	- 0.0128	+ 0.003	- 18.413	+ 0.137	+ 0.07	Stone
46	... ..	+ 2.4724	- 0.0120	...	- 18.410	+ 0.151	...	...
47	106 Piscium ν ...	+ 3.1136	+ 0.0091	- 0.003	- 18.344	+ 0.191	- 0.01	228
48	... ..	+ 2.1558	- 0.0114	...	- 18.308	+ 0.136	...	...
49	110 Piscium σ ...	+ 3.1569	+ 0.0111	+ 0.003	- 18.204	+ 0.200	- 0.06	232
50	Taylor 578 ...	+ 3.0097	+ 0.0039	...	- 18.171	+ 0.193	...	...
51	Stone 704 ...	+ 2.5195	- 0.0095	...	- 18.109	+ 0.165	...	...
52	Taylor 616 ...	+ 2.3390	- 0.0098	...	- 17.932	+ 0.160	...	...
53	6 Arietis β ...	+ 3.2965	+ 0.0183	+ 0.005	- 17.861	+ 0.226	+ 0.10	252
54	Taylor 626 ...	+ 2.5764	- 0.0073	...	- 17.855	+ 0.179	...	...
55	... ..	+ 2.5819	- 0.0062	...	- 17.623	+ 0.187	...	...
56	Stone 812 ...	+ 2.8862	+ 0.0010	...	- 17.482	+ 0.214	...	...
57	Stone 824 ...	+ 2.4269	- 0.0067	...	- 17.381	+ 0.183	...	...
58	13 Arietis α ...	+ 3.3561	+ 0.0203	+ 0.013	- 17.342	+ 0.252	+ 0.13	287
59	Stone 834 ...	+ 2.1910	- 0.0065	...	- 17.310	+ 0.168	...	...
60	Stone 850 ...	+ 2.5658	- 0.0049	...	- 17.198	+ 0.199	...	...
61	Stone 870 ...	+ 2.5092	- 0.0051	...	- 17.108	+ 0.198	...	...
62	... ..	+ 2.4383	- 0.0053	...	- 17.002	+ 0.195	...	...
63	... ..	+ 2.5741	- 0.0040	...	- 16.943	+ 0.207	...	...
64	Taylor 750 ...	+ 2.4330	- 0.0051	...	- 16.922	+ 0.197	...	...
65	67 Ceti ...	+ 2.9840	+ 0.0049	+ 0.004	- 16.859	+ 0.242	+ 0.11	321
66	Stone 911 ...	+ 2.0909	- 0.0040	...	- 16.819	+ 0.173	...	...
67	... ..	+ 2.3926	- 0.0046	...	- 16.699	+ 0.200	...	...
68	Stone 935 ...	+ 2.1541	- 0.0040	...	- 16.622	+ 0.182
69	+ 1.7058	+ 0.0037	...	- 16.513	+ 0.148
70	Stone 955 ...	+ 1.7383	+ 0.0029	...	- 16.487	+ 0.151

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Number	Star.	Magnitnde.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
71	... ..	7.5	2	2	19	52.27	134	51	27.9	2	0.00
72	73 Ceti ζ ³	4.4	...	2	21	56.29	82	3	52.4	1	1.00
78	... ..	7.0	3	2	22	8.49	131	53	37.3	4	0.49
74	... ..	8.0	...	2	23	18.01	135	34	15.8	1	0.01
75	Stone 994	7.3	...	2	24	31.01	126	27	49.7	1	0.00
76	Stone 1000	6.4	...	2	25	20.71	154.	49	24.1	5	0.92
77	Lacaille 782	6.7	...	2	26	46.94	148	19	46.3	1	0.01
78	R. P. L. 26	8.0	...	2	27	31.12	3	27	48.7	2	0.67
79	... ..	7.7	3	2	28	16.63	149	23	20.7	3	0.01
80	77 Ceti	5.6	...	2	28	56.16	98	22	16.1	5	0.94
81	... ..	8.0	...	2	33	12.16	137	9	14.5	5	0.05
82	86 Ceti γ ³ ...	3.6	...	2	37	14.27	87	15	29.0	2	0.99
83	Taylor 916	6.1	...	2	37	27.05	128	53	1.8	5	0.01
84	... ..	7.7	1	2	37	31.16	136	6	9.6	1	0.00
85	Taylor 926	7.5	...	2	39	2.37	115	59	32.7	5	0.92
86	Stone 1144	7.0	...	2	42	15.04	131	27	2.0	5	0.97
87	... ..	7.7	1	2	42	49.02	140	53	8.7	1	0.00
88	... ..	8.0	...	2	43	47.79	138	24	5.5	5	0.05
89	43 Arietis σ	5.5	...	2	45	1.06	75	24	2.0	7	0.96
90	... ..	8.5	...	2	46	1.22	132	42	37.4	5	0.03
91	Stone 1170	7.1	...	2	46	38.45	131	26	44.8	5	0.94
92	... ..	8.5	...	2	47	2.31	133	18	50.8	2	0.01
93	Stone 1192	8.0	...	2	49	36.97	135	5	2.8	5	0.97
94	Stone 1208	6.6	...	2	50	59.00	146	21	23.5	4	0.05
95	Stone 1212	8.0	...	2	51	42.14	141	44	2.3	4	0.96
96	Stone 1223	7.0	...	2	52	28.65	154	28	45.5	1	0.99
97	Taylor 1024	7.4	...	2	55	47.17	132	20	18.5	3	0.01
98	Taylor 1027	6.1	...	2	56	34.74	118	32	26.1	5	0.94
99	... ..	8.5	...	2	57	42.15	132	17	54.2	4	0.05
100	Stone 1263	6.3	...	2	58	55.64	137	26	2.9	5	0.97
101	Stone 1264	8.0	...	2	59	13.87	134	30	42.2	4	0.02
102	Taylor 1042	6.9	...	2	59	43.54	134	21	21.4	5	0.02
103	R. P. L. 33	5.8	...	3	4	48.88	5	30	24.5	2	0.95
104	57 Arietis δ	4.5	...	3	4	56.32	70	42	59.3	7	0.96
105	Stone 1342	7.3	...	3	9	50.79	130	41	31.7	2	0.00

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	...	+ 2.3100	- 0.0040	...	- 16.434	+ 0.200	...	...
72	73 Ceti ζ^3	+ 3.1805	+ 0.0117	+ 0.001	- 16.330	+ 0.276	+ 0.00	347
73	...	+ 2.3753	- 0.0038	...	- 16.320	+ 0.208	...	...
74	...	+ 2.2740	- 0.0035	...	- 16.260	+ 0.201	...	...
75	Stone 994	+ 2.4899	- 0.0028	...	- 16.197	+ 0.222	...	...
76	Stone 1000	+ 1.3873	+ 0.0138	...	- 16.155	+ 0.127	...	...
77	Lacaille 782	+ 1.7773	+ 0.0026	...	- 16.079	+ 0.161	...	...
78	R. P. L. 26	+ 16.3288	+ 3.7976	...	- 16.038	+ 1.430	...	...
79	...	+ 1.7104	+ 0.0047	...	- 16.002	+ 0.157	...	...
80	77 Ceti	+ 2.9533	+ 0.0051	...	- 15.966	+ 0.267	...	...
81	...	+ 2.1790	- 0.0020	...	- 15.739	+ 0.204	...	...
82	86 Ceti γ^3	+ 3.1130	+ 0.0094	- 0.011	- 15.516	+ 0.294	+ 0.16	383
83	Taylor 916	+ 2.3886	- 0.0018	...	- 15.505	+ 0.228	...	...
84	...	+ 2.1908	- 0.0014	...	- 15.500	+ 0.209	...	...
85	Taylor 926	+ 2.0554	+ 0.0003	...	- 15.416	+ 0.254	...	...
86	Stone 1144	+ 2.3045	- 0.0015	...	- 15.234	+ 0.225	...	...
87	...	+ 1.5691	+ 0.0081	...	- 15.203	+ 0.153	...	...
88	...	+ 2.0855	- 0.0004	...	- 15.147	+ 0.206	...	...
89	43 Arietis σ	+ 3.3020	+ 0.0150	- 0.000	- 15.075	+ 0.323	+ 0.04	400
90	...	+ 2.2545	- 0.0009	...	- 15.018	+ 0.224	...	...
91	Stone 1170	+ 2.2876	- 0.0010	...	- 14.983	+ 0.227	...	...
92	...	+ 2.2328	- 0.0008	...	- 14.959	+ 0.223	...	...
93	Stone 1192	+ 2.1682	- 0.0004	...	- 14.809	+ 0.210	...	...
94	Stone 1208	+ 1.7087	+ 0.0052	...	- 14.727	+ 0.175	...	...
95	Stone 1212	+ 1.9181	+ 0.0020	...	- 14.684	+ 0.196	...	...
96	Stone 1223	+ 1.1582	+ 0.0206	...	- 14.638	+ 0.121	...	...
97	Taylor 1024	+ 2.2270	0.0000	...	- 14.438	+ 0.233	...	...
98	Taylor 1027	+ 2.5659	+ 0.0007	...	- 14.391	+ 0.266	...	...
99	...	+ 2.2204	+ 0.0001	...	- 14.322	+ 0.232	...	...
100	Stone 1263	+ 2.0481	+ 0.0011	...	- 14.247	+ 0.217	...	...
101	Stone 1264	+ 2.1461	+ 0.0005	...	- 14.228	+ 0.226	...	...
102	Taylor 1042	+ 2.1491	+ 0.0005	...	- 14.198	+ 0.227	...	...
103	R. P. L. 33	+ 13.0815	+ 1.6154	+ 0.045	- 13.879	+ 1.383	+ 0.12	402
104	57 Arietis δ	+ 3.4102	+ 0.0171	+ 0.010	- 13.871	+ 0.364	- 0.01	446
105	Stone 1342	+ 2.2253	+ 0.0010	...	- 13.558	+ 0.245	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	'	"	...		
106	... ..	9.0	...	3	12	17.28	126	8	37.8	3	0.01
107	38 Persei α	1.9	...	3	15	58.29	40	33	23.5	3	0.05
108	1 Tauri σ , Var. 5	Var.	...	3	18	31.06	81	23	0.7	6	0.37
109	... ..	8.0	3	3	18	35.65	134	32	55.3	5	0.03
110	Stone 1414	7.2	...	3	19	17.12	130	29	29.3	3	0.00
111	... ..	7.7	2	3	26	30.25	135	8	2.2	3	0.04
112	18 Eridani ϵ	3.7	...	3	27	25.15	99	51	20.0	6	0.03
113	R. P. L. 34	5.9	...	3	28	19.44	3	43	29.0	4	0.50
114	Stone 1522	7.8	...	3	34	39.71	136	37	22.6	2	0.00
115	Stone 1526	8.0	...	3	35	9.27	126	19	10.3	5	0.01
116	25 Tauri η (<i>Alcyone</i>)	3.0	...	3	40	31.81	66	15	27.8	4	0.25
117	... ..	8.8	2	3	44	17.92	136	26	47.0	4	0.04
118	... ..	9.0	4	3	49	49.40	126	22	56.1	5	0.02
119	37 Tauri A ¹	4.4	...	3	57	46.71	68	14	20.7	16	0.05
120	R. P. L. 35	6.7	...	4	0	13.55	4	45	17.8	2	0.00
121	38 Eridani σ^1	4.1	...	4	6	9.25	97	8	35.3	1	0.03
122	α Reticuli	3.3	...	4	12	55.28	152	46	1.2	5	0.11
123	54 Tauri γ	3.9	...	4	13	8.11	74	39	22.0	13	0.03
124	Taylor 1553	8.3	...	4	20	49.49	134	17	23.0	4	0.03
125	74 Tauri ϵ	3.7	...	4	21	47.09	71	4	49.4	2	0.02
126	Taylor 1595	6.9	...	4	27	0.28	131	25	33.3	4	0.01
127	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	29	12.46	73	43	37.5	8	0.09
128	α Doradus	3.1	...	4	31	28.21	145	17	13.2	5	0.11
129	Stone 1991	7.3	...	4	32	31.02	135	22	30.1	4	0.01
130	... ..	7.0	5	4	45	26.49	131	47	22.9	5	0.08
131	3 Aurigæ ι	2.7	...	4	49	22.43	57	1	15.9	9	0.08
132	R. P. L. 37	7.0	...	4	50	27.71	4	11	49.5	12	0.09
133	7 Aurigæ ϵ , Var. 1	Var.	...	4	53	34.38	46	21	3.7	5	0.11
134	Stone 2191	8.0	...	4	56	19.73	131	13	19.8	5	0.06
135	R. P. L. 39	7.0	...	5	4	14.00	4	26	3.0	17	0.22
136	13 Aurigæ α (<i>Capella</i>)	0.2	...	5	8	2.65	44	7	19.6	9	0.09
137	19 Orionis β (<i>Rigel</i>)	0.3	...	5	8	54.35	98	20	16.2	8	0.10
138	112 Tauri β	1.9	...	5	18	53.79	61	29	34.9	4	0.04
139	R. P. L. 40	6.0	...	5	24	37.77	4	51	57.9	6	0.21
140	34 Orionis δ , Var. 1	Var.	...	5	26	1.88	90	23	12.9	1	0.05

113.—Groombridge 642.
139.—Groombridge 944.

120.—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	... ..	+ 0.3704	+ 0.0009	...	- 13.400	+ 0.260	...	...
107	33 Persei α ...	+ 4.2512	+ 0.0483	+ 0.002	- 13.158	+ 0.472	+ 0.03	464
108	1 Tauri σ ...	+ 3.2267	+ 0.0115	- 0.005	- 12.989	+ 0.364	+ 0.07	477
109	... ..	+ 2.0695	+ 0.0021	...	- 12.984	+ 0.236	...	...
110	Stone 1414 ...	+ 2.2002	+ 0.0016	...	- 12.938	+ 0.251	...	...
111	... ..	+ 2.0193	+ 0.0028	...	- 12.449	+ 0.236	...	...
112	18 Eridani ϵ ...	+ 2.8897	+ 0.0055	- 0.068	- 12.386	+ 0.336	- 0.01	493
113	R. P. L. 34 ...	+ 19.2728	+ 3.2566	+ 0.186	- 12.324	+ 2.222	+ 0.06	Gr
114	Stone 1522 ...	+ 1.9325	+ 0.0038	...	- 11.881	+ 0.232	...	...
115	Stone 1526 ...	+ 2.2795	+ 0.0022	...	- 11.847	+ 0.273	...	...
116	25 Tauri η ...	+ 3.5548	+ 0.0177	- 0.000	- 11.465	+ 0.430	+ 0.04	521
117	... ..	+ 1.9053	+ 0.0042	...	- 11.192	+ 0.235	...	...
118	... ..	+ 2.2420	+ 0.0027	...	- 10.788	+ 0.280	...	...
119	37 Tauri A ¹ ...	+ 3.5319	+ 0.0153	+ 0.005	- 10.195	+ 0.447	+ 0.06	554
120	R. P. L. 35 ...	+ 16.9992	+ 1.8957	+ 0.002	- 10.009	+ 2.152	- 0.02	750
121	38 Eridani σ^1 ...	+ 2.9250	+ 0.0058	- 0.001	- 9.557	+ 0.379	- 0.09	568
122	α Reticuli ...	+ 0.7520	+ 0.0216	+ 0.005	- 9.033	+ 0.102	- 0.07	Stone
123	54 Tauri γ ...	+ 3.4000	+ 0.0115	+ 0.007	- 9.015	+ 0.446	+ 0.03	583
124	Taylor 1553 ...	+ 1.8883	+ 0.0046	...	- 8.410	+ 0.254	...	...
125	74 Tauri ϵ ...	+ 3.4892	+ 0.0120	+ 0.007	- 8.334	+ 0.466	+ 0.03	609
126	Taylor 1595 ...	+ 1.9884	+ 0.0041	...	- 7.915	+ 0.269	...	...
127	87 Tauri α ...	+ 3.4323	+ 0.0105	+ 0.004	- 7.739	+ 0.404	+ 0.18	630
128	α Doradus ...	+ 1.2848	+ 0.0099	...	- 7.556	+ 0.176	...	...
129	Stone 1991 ...	+ 1.8153	+ 0.0048	...	- 7.470	+ 0.249	...	...
130	... ..	+ 1.9401	+ 0.0041	...	- 6.409	+ 0.271	...	...
131	3 Aurigæ ι ...	+ 3.8989	+ 0.0144	+ 0.001	- 6.082	+ 0.544	+ 0.00	677
132	R. P. L. 37 ...	+ 20.4576	+ 1.4960	...	- 5.991	+ 2.851	...	...
133	7 Aurigæ ϵ ...	+ 4.2945	+ 0.0197	- 0.002	- 5.731	+ 0.602	+ 0.01	690
134	Stone 2191 ...	+ 1.9460	+ 0.0039	...	- 5.500	+ 0.275	...	...
135	R. P. L. 39 ...	+ 19.8047	+ 1.1015	...	- 4.831	+ 2.805	...	...
136	13 Aurigæ α ...	+ 4.4156	+ 0.0173	+ 0.008	- 4.508	+ 0.629	+ 0.42	722
137	19 Orionis β ...	+ 2.8812	+ 0.0040	- 0.001	- 4.433	+ 0.412	- 0.01	736
138	112 Tauri β ...	+ 3.7869	+ 0.0082	+ 0.001	- 3.577	+ 0.545	+ 0.18	756
139	R. P. L. 40 ...	+ 18.5835	+ 0.5958	...	- 3.083	+ 2.680	...	...
140	34 Orionis δ ...	+ 3.0634	+ 0.0038	- 0.001	- 2.962	+ 0.443	+ 0.01	787

Mean Positions of Stars for 1883, 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	11 Leporis α	2.7	...	5	27	34.23	107	54	25.7	2	0.07
142	R. P. L. 41	7.5	...	5	29	13.78	4	44	59.2	8	0.57
143	R. P. L. 42... ..	7.9	...	5	36	37.99	2	40	52.8	9	0.07
144	53 Orionis κ	2.2	...	5	42	12.45	99	42	46.3	4	0.07
145	33 Aurigæ δ	3.8	...	5	49	53.55	35	43	33.5	5	0.11
146	R. P. L. 43	6.6	...	6	0	28.21	3	14	15.4	9	0.31
147	7 Geminorum η	3.5	...	6	7	48.87	67	27	37.1	10	0.10
148	31 Geminor ξ	3.4	...	6	38	43.35	76	58	46.1	10	0.13
149	51 Cephei (<i>Hev.</i>)	5.3	...	6	45	17.33	2	46	26.2	10	0.12
150	... .. (2nd Star)...	9.5	4	6	48	35.47	70	33	38.0	4	0.11
151	W. B. N. VI. 1448	9.0	5	6	49	45.81	62	3	39.3	5	0.11
152	22 Canis Majoris	3.5	...	6	57	3.56	117	46	5.3	5	0.11
153	3 Canis Minoris β	3.1	...	7	20	48.35	81	28	31.9	10	0.12
154	77 Geminorum κ	1.1	...	7	37	22.89	65	19	21.3	5	0.15
155	W. B. E. VII. 1127	9.0	5	7	38	32.60	81	0	24.6	5	0.12
156	ξ Argûs	3.4	...	7	44	22.49	114	33	59.1	10	0.14
157	R. P. L. 48	7.4	...	7	46	44.85	3	58	3.8	5	0.61
158	Lalande 16864	8.0	5	8	15	22.48	76	0	18.2	5	0.10
159	R. P. L. 53	7.7	...	8	20	38.22	4	32	8.7	5	0.68
160	Lalande 16797	8.0	5	8	27	6.61	76	3	3.5	5	0.11
161	R. P. L. 55	7.5	...	8	31	31.92	5	40	55.7	3	0.77
162	43 Cancri γ	4.8	...	8	36	30.77	68	6	42.3	10	0.14
163	R. P. L. 60	7.0	...	8	50	44.02	5	21	10.9	1	0.74
164	W. B. E. IX. 78	9.0	5	9	6	31.26	77	16	15.8	5	0.12
165	ι Argûs	2.5	...	9	13	57.46	148	47	6.6	10	0.21
166	Lalande 18405	8.0	5	9	14	35.46	77	32	44.0	5	0.13
167	W. B. E. IX. 270	9.0	5	9	14	55.42	77	15	40.3	5	0.14
168	κ Argûs	2.7	...	9	18	29.19	144	30	40.9	5	0.14
169	R. P. L. 62	8.1	...	9	21	24.45	2	21	32.2	2	0.70
170	Lalande 19559	7.0	5	9	53	48.60	109	47	50.9	5	0.14
171	Lalande 19846	8.0	5	10	5	40.85	107	3	30.1	5	0.14
172	33 Ursæ Majoris λ	3.6	...	10	10	1.86	46	30	6.0	1	0.15
173	W. B. E. X. 228	9.0	5	10	15	3.03	104	0	29.4	5	0.15
174	Lalande 20089	7.5	5	10	15	10.54	104	54	4.2	5	0.15
175	... ..	9.7	5	10	16	2.01	84	34	2.6	5	0.28

150.—Comparison star for Hestia in 1882.

151.—Comparison star for Sylvia in 1882.

155.—Comparison star for Camilla in 1882.

158—160—164—166—167—170—171—173—174.—Comparison stars for Comet 1882, A.

163.—Carrington 1286.

175.—Comparison star for Asia in 1883.

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	11 Leporis α ...	+ 2'6446	+ 0'0029	- 0'001	- 2'828	+ 0'388	- 0'01	796
142	R. P. L. 41 ...	+ 19'0176	+ 0'5444	...	- 2'684	+ 2'750	...	...
143	R. P. L. 42 ...	+ 31'4697	+ 1'2560	...	- 2'041	+ 4'567	...	...
144	53 Orionis κ ...	+ 2'8441	+ 0'0027	- 0'002	- 1'555	+ 0'414	- 0'00	844
145	33 Aurigæ δ ...	+ 4'9293	+ 0'0061	+ 0'007	- 0'885	+ 0'718	+ 0'12	852
146	R. P. L. 43 ...	+ 26'7050	- 0'0260	...	+ 0'041	+ 3'806	...	...
147	7 Geminorum η ...	+ 3'0269	+ 0'0007	- 0'005	+ 0'682	+ 0'529	+ 0'00	909
148	31 Geminorum ξ ...	+ 3'3772	- 0'0017	- 0'009	+ 3'373	+ 0'485	+ 0'20	989
149	51 Cephei (<i>Hev.</i>) ...	+ 30'1274	- 2'2654	- 0'040	+ 3'987	+ 4'307	+ 0'05	Gr.
150	... .. (2nd Star) ...	+ 3'5336	- 0'0038	...	+ 4'220	+ 0'502	...	...
151	W. B. N. VI. 1448 ...	+ 3'7617	- 0'0060	...	+ 4'320	+ 0'535	...	...
152	22 Canis Majoris ...	+ 2'3901	+ 0'0013	- 0'002	+ 4'941	+ 0'336	+ 0'01	1027
153	3 Canis Minoris β ...	+ 3'2605	- 0'0041	- 0'004	+ 0'924	+ 0'444	+ 0'03	1070
154	77 Geminorum κ ...	+ 3'7274	- 0'0128	- 0'048	+ 8'329	+ 0'491	+ 0'05	1112
155	W. B. E. VII. 1127 ...	+ 3'2614	- 0'0053	...	+ 8'359	+ 0'429	...	...
156	ξ Argûs ...	+ 2'5235	+ 0'0008	- 0'001	+ 8'820	+ 0'327	- 0'02	1132
157	R. P. L. 48 ...	+ 20'2936	- 2'3725	...	+ 9'006	+ 2'640	...	...
158	Lalande 16364 ...	+ 3'3491	- 0'0091	...	+ 11'169	+ 0'401	...	...
159	R. P. L. 53 ...	+ 16'8502	- 2'1717	...	+ 11'548	+ 2'004	...	...
160	Lalande 16797 ...	+ 3'3383	- 0'0097	...	+ 12'007	+ 0'302	...	...
161	R. P. L. 55 ...	+ 13'6770	- 1'4659	...	+ 12'314	+ 1'569	...	...
162	43 Cancri γ ...	+ 3'4890	- 0'0143	- 0'000	+ 12'655	+ 0'390	+ 0'03	1230
163	R. P. L. 60 ...	+ 13'5605	- 1'7011	...	+ 13'595	+ 1'448	...	...
164	W. B. E. IX. 78 ...	+ 3'2798	- 0'0102	...	+ 14'578	+ 0'323	...	...
165	ι Argûs ...	+ 1'6102	- 0'0022	...	+ 15'017	+ 0'150	...	...
166	Lalande 18405 ...	+ 3'2674	- 0'0103	...	+ 15'054	+ 0'310	...	...
167	W. B. E. IX. 270 ...	+ 3'2717	- 0'0104	...	+ 15'073	+ 0'310	...	...
168	κ Argûs ...	+ 1'8576	+ 0'0027	...	+ 15'277	+ 0'169	...	...
169	R. P. L. 62 ...	+ 23'7805	- 8'0997	...	+ 15'441	+ 2'206	...	...
170	Lalande 19559 ...	+ 2'8205	+ 0'0039	...	+ 17'090	+ 0'209	...	...
171	Lalande 19846 ...	+ 2'8761	+ 0'0035	...	+ 17'610	+ 0'198	...	...
172	33 Ursæ Majoris λ ...	+ 3'6579	- 0'0386	- 0'017	+ 17'789	+ 0'240	+ 0'06	1421
173	W. B. E. X. 228 ...	+ 2'9249	+ 0'0028	...	+ 17'987	+ 0'181	...	...
174	Lalande 20089 ...	+ 2'9152	+ 0'0031	...	+ 17'992	+ 0'180	...	...
175	... ..	+ 3'1281	- 0'0057	...	+ 18'025	+ 0'198	...	...

Mean Positions of Stars for 1883, 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>		
176	Lalande 20205	8.0	3	10	19	29.37	84	50	7.8	5	0.27
177	Lalande 20521	6.7	5	10	30	28.06	99	58	33.9	5	0.15
178	Yarnall 4420	7.0	5	10	30	42.70	101	36	8.6	5	0.15
179	58 Leonis <i>d</i>	5.0	...	10	54	31.04	85	45	16.3	10	0.18
180	70 Leonis <i>θ</i>	3.5	...	11	8	5.97	73	55	52.0	5	0.18
181	84 Leonis <i>τ</i>	5.1	...	11	21	55.21	86	29	58.5	10	0.22
182	... ..	9.5	5	11	22	33.38	92	38	7.4	5	0.27
183	R. P. L. 82	7.0	...	11	26	38.94	3	44	15.7	15	0.45
184	R. P. L. 87	8.0	...	11	53	30.94	2	21	15.1	4	0.90
185	8 Virginis <i>π</i>	4.4	...	11	54	52.59	82	44	0.1	10	0.27
186	R. P. L. 97	7.2	...	12	37	34.31	5	42	52.0	3	0.91
187	R. P. L. 98	6.6	...	12	48	7.98	5	56	45.1	2	0.92
188	R. P. L. 99	5.6	...	12	48	16.20	5	57	4.6	2	0.97
189	77 Ursæ Majoris <i>ε</i>	1.8	...	12	48	52.59	33	24	17.7	5	0.26
190	43 Virginis <i>δ</i>	3.7	...	12	49	42.64	85	57	57.2	20	0.30
191	47 Virginis <i>ε</i>	3.0	...	12	56	21.16	78	24	42.2	30	0.32
192	R. P. L. 100	8.0	...	13	0	26.77	3	29	7.4	4	0.71
193	51 Virginis <i>θ</i>	4.4	...	13	3	53.52	94	54	48.8	11	0.35
194	R. P. L. 101	7.5	...	13	7	6.31	1	43	20.6	1	0.86
195	79 Virginis <i>ζ</i>	3.5	...	13	28	44.08	89	59	52.2	10	0.30
196	4 Bootis <i>τ</i>	4.5	...	13	41	42.10	71	57	31.2	10	0.28
197	85 Ursæ Majoris <i>η</i>	2.0	...	13	42	55.69	40	6	6.4	10	0.35
198	8 Bootis <i>η</i>	2.9	...	13	49	6.73	71	0	56.9	10	0.32
199	... ..	8.5	5	13	50	24.51	142	5	19.6	5	0.28
200	R. P. L. 108	7.8	...	14	1	29.77	3	40	55.6	1	0.99
201	Taylor 6609	7.2	...	14	5	40.83	131	5	32.7	5	0.32
202	Stone 7816—2nd	6.5	...	14	12	48.96	132	31	13.2	5	0.33
203	... ..	9.0	...	14	13	8.18	151	0	41.2	1	0.31
204	Stone 7826	6.9	...	14	14	9.36	156	6	31.8	2	0.30
205	... ..	7.0	3	14	21	19.61	150	19	32.5	3	0.34
206	... ..	8.9	5	14	21	30.45	150	17	33.2	5	0.33
207	Stone 7897	7.3	...	14	23	7.93	129	57	14.5	2	0.30
208	Stone 7947	7.1	...	14	29	31.32	157	41	41.6	2	0.30
209	Taylor 6811	7.8	...	14	30	6.60	132	36	5.4	5	0.32
210	Stone 7989	7.8	...	14	32	17.10	129	3	27.1	2	0.35

176.—Comparison star for Asia in 1883.

182.—Comparison star for Ariadne in 1883.

199.—Comparison star for Niobe in 1883.

177—178.—Comparison stars for Comet 1882, A.

188.—Groombridge 1940. 194.—Groombridge 2006.

200.—Groombridge 2099.

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.	
176	Lalande 20205 ...	+ 3.1237	- 0.0056	...	+ 18.155	+ 0.182	...	...
177	Lalande 20521 ...	+ 2.9828	+ 0.0019	...	+ 18.542	+ 0.153	...	...
178	Yarnall 4420 ...	+ 2.9681	+ 0.0027	...	+ 18.551	+ 0.157	...	...
179	58 Leonis δ ...	+ 3.1003	- 0.0039	- 0.002	+ 19.241	+ 0.120	+ 0.01	1526
180	70 Leonis θ ...	+ 3.1588	- 0.0098	- 0.006	+ 19.542	+ 0.096	+ 0.06	1548
181	84 Leonis τ ...	+ 3.0859	- 0.0020	- 0.001	+ 19.777	+ 0.066	+ 0.01	1570
182	... ..	+ 3.0623	+ 0.0005	...	+ 19.786	+ 0.065	...	...
183	R. P. L. 82 ...	+ 6.0399	- 1.3276	...	+ 19.841	+ 0.119	...	...
184	R. P. L. 87 ...	+ 3.9924	- 1.1600	...	+ 20.046	+ 0.007	...	...
185	8 Virginis π ...	+ 3.0761	- 0.0023	- 0.003	+ 20.043	+ 0.002	+ 0.02	1618
186	R. P. L. 97 ...	+ 0.8020	+ 0.1284	...	+ 19.785	- 0.030	...	...
187	R. P. L. 98 ...	+ 0.3962	+ 0.2146	- 0.017	+ 19.613	- 0.020	- 0.02	1730
188	R. P. L. 99 ...	+ 0.3913	+ 0.2146	- 0.020	+ 19.610	- 0.020	- 0.02	1731
189	77 Ursæ Majoris ϵ ...	+ 2.6433	- 0.0273	+ 0.012	+ 19.599	- 0.089	+ 0.02	1722
190	43 Virginis δ ...	+ 3.0521	+ 0.0025	- 0.034	+ 19.585	- 0.103	+ 0.05	1723
191	47 Virginis ϵ ...	+ 3.0056	- 0.0007	- 0.019	+ 19.451	- 0.114	- 0.03	1735
192	R. P. L. 100 ...	- 2.6502	+ 1.2981	...	+ 19.360	+ 0.093	...	...
193	51 Virginis θ ...	+ 3.1040	+ 0.0078	- 0.004	+ 19.279	- 0.132	+ 0.04	1747
194	R. P. L. 101 ...	- 9.7598	+ 7.0045	...	+ 19.200	+ 0.403	...	...
195	99 Virginis ζ ...	+ 3.0723	+ 0.0064	- 0.021	+ 18.570	- 0.176	- 0.06	1739
196	4 Bootis τ ...	+ 2.8854	- 0.0007	- 0.035	+ 18.111	- 0.188	- 0.04	1810
197	85 Ursæ Majoris η ...	+ 2.8831	- 0.0103	- 0.012	+ 18.066	- 0.159	+ 0.01	1815
198	8 Bootis η ...	+ 2.8616	- 0.0006	- 0.005	+ 17.823	- 0.199	+ 0.34	1821
199	... ..	+ 3.8675	+ 0.0584	...	+ 17.773	- 0.268	...	...
200	R. P. L. 108 ...	- 7.4318	+ 2.3498	...	+ 17.301	+ 0.541	...	...
201	Taylor 6609 ...	+ 3.6801	+ 0.0383	...	+ 17.113	- 0.285	...	...
202	Stone 7816 ...	+ 3.7437	+ 0.0404	...	+ 16.780	- 0.305	...	...
203	... ..	+ 4.3965	+ 0.0910	...	+ 16.765	- 0.357	...	...
204	Stone 7826 ...	+ 4.7398	+ 0.1241	...	+ 16.715	- 0.387	...	...
205	... ..	+ 4.4292	+ 0.0878	...	+ 16.359	- 0.379	...	...
206	... ..	+ 4.4289	+ 0.0877	...	+ 16.351	- 0.379	...	...
207	Stone 7897 ...	+ 3.7271	+ 0.0367	...	+ 16.268	- 0.324	...	...
208	Stone 7947 ...	+ 5.0506	+ 0.1394	...	+ 15.936	- 0.452	...	...
209	Taylor 6811 ...	+ 3.8212	+ 0.0403	...	+ 15.903	- 0.345	...	...
210	Stone 7969 ...	+ 3.7413	+ 0.0352	...	+ 15.788	- 0.342	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	... ..	8.5	...	14	35	28.51	151	25	42.9	1	0.34
212	... ..	8.5	...	14	38	46.84	128	6	32.4	1	0.30
213	Taylor 6891	6.8	...	14	39	56.08	133	3	50.8	5	0.32
214	... ..	7.5	5	14	42	48.04	126	54	24.4	5	0.35
215	Taylor 6925	5.7	...	14	45	30.72	127	19	14.0	5	0.33
216	... ..	7.5	2	14	47	5.48	131	33	52.9	3	0.30
217	... ..	7.5	3	14	48	10.26	126	41	4.0	4	0.32
218	7 Ursæ Minoris β , Var. 1.	Var.	...	14	51	3.41	15	21	57.8	5	0.36
219	Stone 8165	7.8	...	14	52	35.22	129	19	45.5	5	0.34
220	R. P. L. 110	7.0	...	14	52	53.59	3	34	5.8	4	0.11
221	... ..	8.0	1	14	53	29.62	131	49	19.1	3	0.30
222	Taylor 7001	6.7	...	14	56	15.52	125	28	54.2	5	0.32
223	Taylor 7027	6.8	...	14	58	53.17	125	48	33.1	1	0.30
224	27 Libræ β	2.7	...	15	10	42.08	98	57	0.6	10	0.34
225	R. P. L. 114	6.9	...	15	15	19.89	2	19	8.7	3	0.04
226	... ..	9.0	2	15	37	81.10	155	8	45.7	2	0.40
227	24 Serpentis α	2.7	...	15	38	30.32	83	12	18.8	14	0.39
228	37 Serpentis ϵ	3.7	...	15	44	59.03	85	10	7.7	10	0.39
229	... ..	8.3	...	15	46	27.90	130	46	30.0	4	0.45
230	R. P. L. 116	7.0	...	16	0	47.47	4	21	54.1	11	0.19
231	R. P. L. 117	7.2	...	16	3	14.69	6	2	42.6	13	0.11
232	... ..	7.8	...	16	5	1.55	133	46	12.3	2	0.36
233	... ..	8.5	2	16	6	5.44	125	29	45.0	2	0.36
234	Stone 8832	8.0	...	16	7	57.02	135	5	30.7	2	0.34
235	... ..	8.0	4	16	8	14.33	135	14	55.6	4	0.38
236	Stone 8853	7.6	...	16	10	37.47	124	37	29.3	3	0.35
237	19 Ursæ Minoris	5.5	...	16	14	10.02	13	49	42.3	2	0.37
238	Stone 8892	6.6	...	16	14	44.60	152	51	1.4	4	0.35
239	20 Herculis γ	3.8	...	16	16	45.49	70	34	15.3	10	0.41
240	... ..	8.5	4	16	18	6.14	130	57	19.4	4	0.37
241	21 Ursæ Minoris η	5.0	...	16	20	56.10	13	58	30.9	4	0.36
242	... ..	8.0	3	16	23	32.67	136	25	16.7	3	0.36
243	... ..	7.5	1	16	23	38.69	128	44	44.1	1	0.34
244	27 Herculis β	2.8	...	16	25	11.32	68	15	19.0	1	0.39
245	Stone 8976	7.3	...	16	25	25.82	123	16	49.6	3	0.37

225.—Groombridge 2233.
230.—Carrington 2423.

229.—Comparison star for Phædra in 1881.
231.—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.	
211	...	+ 4.6129	+ 0.0990	...	+ 15.614	- 0.427	...	...
212	...	+ 3.7422	+ 0.0339	...	+ 15.431	- 0.354	...	...
213	Taylor 6891	+ 3.8752	+ 0.0406	...	+ 15.366	- 0.369	...	...
214	...	+ 3.7271	+ 0.0323	...	+ 15.203	- 0.360	...	...
215	Taylor 6925	+ 3.7461	+ 0.0326	...	+ 15.048	- 0.366	...	...
216	...	+ 3.8621	+ 0.0379	...	+ 14.957	- 0.380	...	...
217	...	+ 3.7393	+ 0.0319	...	+ 14.893	- 0.370	...	...
218	7 Ursæ Minoris β	- 0.2306	+ 0.1022	- 0.008	+ 14.722	+ 0.018	+ 0.01	1917
219	Stone 8165	+ 3.8214	+ 0.0346	...	+ 14.631	- 0.386	...	...
220	R. P. L. 110	- 11.6097	+ 3.0017	...	+ 14.613	+ 1.154	...	...
221	...	+ 3.8838	+ 0.0378	...	+ 14.576	- 0.395	...	...
222	Taylor 7001	+ 3.7351	+ 0.0300	...	+ 14.410	- 0.384	...	...
223	Taylor 7027	+ 3.7510	+ 0.0302	...	+ 14.249	- 0.390	...	...
224	27 Librae β	+ 3.2280	+ 0.0117	- 0.008	+ 13.502	- 0.353	+ 0.02	1984
225	R. P. L. 114	- 21.7776	+ 7.3882	...	+ 13.200	+ 2.385	...	...
226	...	+ 5.4187	+ 0.1022	...	+ 11.679	- 0.645	...	...
227	24 Serpentis α	+ 2.9425	+ 0.0062	+ 0.008	+ 11.610	- 0.354	- 0.06	1990
228	37 Serpentis ϵ	+ 2.9784	+ 0.0066	+ 0.007	+ 11.143	- 0.365	- 0.06	2005
229	...	+ 4.0350	+ 0.0306	...	+ 11.034	- 0.405	...	...
230	R. P. L. 116	- 12.1258	+ 1.7439	...	+ 9.967	+ 1.530	...	...
231	R. P. L. 117	- 7.9486	+ 0.8614	...	+ 9.780	+ 1.008	...	...
232	...	+ 4.1953	+ 0.0307	...	+ 9.644	- 0.539	...	...
233	...	+ 3.9105	+ 0.0227	...	+ 9.562	- 0.505	...	...
234	Stone 8832	+ 4.2564	+ 0.0318	...	+ 9.419	- 0.551	...	...
235	...	+ 4.2637	+ 0.0319	...	+ 9.396	- 0.552	...	...
236	Stone 8853	+ 3.8924	+ 0.0214	...	+ 9.211	- 0.507	...	...
237	19 Ursæ Minoris	- 1.7925	+ 0.1206	- 0.005	+ 8.934	+ 0.231	- 0.00	2096
238	Stone 8892	+ 5.4092	+ 0.0715	...	+ 8.888	- 0.709	...	...
239	20 Herculis γ	+ 2.6479	+ 0.0038	- 0.005	+ 8.732	- 0.351	- 0.05	2084
240	...	+ 4.1198	+ 0.0254	...	+ 8.627	- 0.545	...	...
241	21 Ursæ Minoris η	- 1.8051	+ 0.1185	- 0.019	+ 8.401	+ 0.237	- 0.25	2111
242	...	+ 4.3548	+ 0.0299	...	+ 8.192	- 0.583	...	...
243	...	+ 4.0517	+ 0.0225	...	+ 8.187	- 0.543	...	...
244	27 Herculis β	+ 2.5841	+ 0.0037	- 0.009	+ 8.061	- 0.348	+ 0.02	2100
245	Stone 8976	+ 3.8762	+ 0.0185	...	+ 8.041	- 0.520	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimaciones.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
246	... ..	9.5	3	16	29	2.03	125	32	36.0	3	0.38
247	η^1 Trianguli Australis ...	6.4	...	16	29	19.56	158	3	36.1	2	0.36
248	Stone 9014	7.3	...	16	30	33.44	128	54	48.0	1	0.34
249	13 Ophiuchi ζ	2.8	...	16	30	43.00	100	19	44.0	20	0.42
250	Lacaille 6881	6.6	...	16	31	31.80	157	12	5.0	2	0.35
251	... ..	7.5	5	16	36	1.15	128	6	36.3	5	0.37
252	... ..	8.0	2	16	38	51.77	125	34	33.7	2	0.35
253	... ..	9.5	4	16	41	15.34	126	18	21.2	4	0.40
254	... ..	7.5	...	16	41	37.68	132	53	52.9	1	0.35
255	... ..	8.0	3	16	42	29.49	127	50	30.9	3	0.36
256	... ..	7.5	5	16	44	2.02	129	2	39.4	5	0.39
257	Taylor 7793	7.0	...	16	44	42.16	127	23	47.9	1	0.35
258	... ..	9.5	2	16	49	0.76	132	12	58.1	2	0.37
259	... ..	8.5	4	16	50	20.18	128	26	17.6	4	0.35
260	... ..	9.0	...	16	56	52.92	129	52	39.8	5	0.37
261	22 Ursae Minoris ϵ ...	4.5	...	16	57	59.87	7	46	16.9	2	0.41
262	... ..	9.0	1	16	59	23.33	132	35	35.5	1	0.34
263	R. P. L. 118	8.0	...	17	1	59.57	5	8	35.3	15	0.24
264	Stone 9338	7.3	...	17	2	48.32	131	17	23.8	5	0.39
265	... ..	7.5	5	17	2	50.92	131	32	56.1	5	0.40
266	35 Ophiuchi η	2.6	...	17	3	40.07	105	34	43.4	20	0.52
267	... ..	8.5	...	17	6	15.90	131	19	56.9	1	0.36
268	Stone 9389	8.0	...	17	8	59.80	129	17	48.0	2	0.37
269	... ..	8.2	5	17	9	34.27	128	31	54.9	5	0.61
270	... ..	9.0	5	17	10	16.68	123	20	55.3	5	0.50
271	... ..	8.0	4	17	10	47.19	125	57	32.2	4	0.57
272	Stone 9428	7.0	...	17	12	18.41	155	35	2.3	1	0.38
273	... ..	9.0	4	17	13	18.04	129	22	40.0	4	0.44
274	... ..	7.4	4	17	14	38.76	131	58	17.8	4	0.39
275	Stone 9448—2nd	7.3	...	17	14	41.28	128	5	8.6	4	0.38
276	... ..	9.3	...	17	15	31.03	145	52	52.1	5	0.60
277	... ..	9.1	5	17	17	18.77	138	28	55.2	5	0.47
278	Stone 9479	7.7	...	17	17	27.63	138	30	22.0	5	0.51
279	49 Ophiuchi σ	4.4	...	17	20	42.58	85	45	25.1	10	0.41
280	... ..	8.0	5	17	21	46.19	127	10	45.3	5	0.58

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	...	+ 3.9532	+ 0.0192	...	+ 7.751	- 0.534	...	...
247	η^1 Trianguli Australis	+ 6.1349	+ 0.0913	...	+ 7.729	- 0.827	...	...
248	Stone 9014	+ 4.0705	+ 0.0213	...	+ 7.629	- 0.551	...	...
249	13 Ophiuchi ζ	+ 3.2977	+ 0.0087	- 0.001	+ 7.616	- 0.447	- 0.04	2109
250	Lacaille 6881	+ 6.0189	+ 0.0837	...	+ 7.550	- 0.814	...	...
251	...	+ 4.0514	+ 0.0196	...	+ 7.186	- 0.554	...	...
252	...	+ 3.9693	+ 0.0175	...	+ 6.952	- 0.547	...	...
253	...	+ 3.9972	+ 0.0176	...	+ 6.755	- 0.551	...	...
254	...	+ 4.2427	+ 0.0220	...	+ 6.724	- 0.585	...	...
255	...	+ 4.0521	+ 0.0182	...	+ 6.653	- 0.560	...	...
256	...	+ 4.0977	+ 0.0188	...	+ 6.527	- 0.567	...	...
257	Taylor 7793	+ 4.0398	+ 0.0175	...	+ 6.470	- 0.560	...	...
258	...	+ 4.2275	+ 0.0197	...	+ 6.113	- 0.590	...	...
259	...	+ 4.0848	+ 0.0171	...	+ 6.002	- 0.571	...	...
260	...	+ 4.1472	+ 0.0164	...	+ 5.453	- 0.588	...	...
261	22 Ursæ Minoris ϵ	- 6.3674	+ 0.3104	+ 0.009	+ 5.359	+ 0.893	+ 0.00	2201
262	...	+ 4.2587	+ 0.0175	...	+ 5.242	- 0.601	...	...
263	R. P. L. 118	- 11.3079	+ 0.7060	...	+ 5.022	+ 1.594	...	...
264	Stone 9338	+ 4.2101	+ 0.0159	...	+ 4.952	- 0.597	...	...
265	...	+ 4.2205	+ 0.0160	...	+ 4.949	- 0.598	...	...
266	35 Ophiuchi η	+ 3.4339	+ 0.0073	...	+ 4.880	- 0.487	...	...
267	...	+ 4.2160	+ 0.0150	...	+ 4.659	- 0.600	...	...
268	Stone 9389	+ 4.1394	+ 0.0134	...	+ 4.426	- 0.590	...	...
269	...	+ 4.1112	+ 0.0131	...	+ 4.377	- 0.587	...	...
270	...	+ 3.9316	+ 0.0110	...	+ 4.317	- 0.562	...	...
271	...	+ 4.0200	+ 0.0123	...	+ 4.269	- 0.623	...	...
272	Stone 9428	+ 5.9538	+ 0.0431	...	+ 4.143	- 0.851	...	...
273	...	+ 4.1470	+ 0.0126	...	+ 4.057	- 0.594	...	...
274	...	+ 4.2515	+ 0.0134	...	+ 3.942	- 0.609	...	...
275	Stone 9448	+ 4.0996	+ 0.0118	...	+ 3.938	- 0.588	...	...
276	...	+ 5.0084	+ 0.0231	...	+ 3.868	- 0.718	...	...
277	...	+ 4.5563	+ 0.0162	...	+ 3.714	- 0.654	...	...
278	Stone 9479	+ 4.5578	+ 0.0161	...	+ 3.701	- 0.655	...	...
279	49 Ophiuchi σ	+ 2.9746	+ 0.0037	- 0.002	+ 3.421	- 0.428	- 0.02	2206
280	...	+ 4.0795	+ 0.0100	...	+ 3.330	- 0.586	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
281	α Ara	2.9	...	17	22	47.74	139	46	53.0	5	0.57
282	β Scorpii	2.8	...	17	22	48.30	127	12	3.8	3	0.62
283	Stone 9566	7.3	...	17	26	10.82	130	26	47.9	5	0.51
284	... ..	9.0	...	17	28	7.56	134	29	10.4	1	0.40
285	Stone 9578	7.8	...	17	28	9.80	146	44	38.7	3	0.63
286	Brisbane 6132	9.0	...	17	28	38.23	135	4	47.9	1	0.38
287	θ Scorpii	2.1	...	17	28	54.63	132	55	16.9	5	0.44
288	... ..	8.0	5	17	29	8.92	128	42	31.2	5	0.58
289	... ..	7.0	5	17	31	44.58	128	17	57.8	5	0.39
290	B. P. L. 120	7.3	...	17	31	46.62	5	17	25.9	15	0.21
291	... ..	7.0	5	17	32	56.17	130	1	35.8	5	0.52
292	Brisbane 6160	8.0	1	17	33	20.24	134	43	12.5	1	0.38
293	... ..	7.5	5	17	35	28.25	144	4	40.2	5	0.61
294	δ Ophiuchi	2.9	...	17	37	41.47	85	22	57.4	20	0.48
295	... ..	8.5	3	17	39	34.72	128	18	48.5	4	0.51
296	... ..	8.5	5	17	40	23.34	128	18	58.4	5	0.58
297	... ..	8.5	...	17	42	51.28	143	28	17.8	2	0.65
298	... ..	7.5	5	17	44	10.67	129	6	59.0	5	0.39
299	Taylor 8243	6.8	...	17	44	30.74	131	57	29.8	5	0.43
300	... ..	9.5	4	17	45	11.77	131	58	2.9	5	0.44
301	... ..	9.0	5	17	45	39.91	129	13	59.3	5	0.59
302	... ..	8.0	3	17	50	28.60	151	21	13.9	3	0.38
303	... ..	7.8	5	17	51	51.27	129	3	3.6	5	0.48
304	... ..	7.0	5	17	52	15.75	127	23	51.0	5	0.40
305	... ..	9.0	4	17	52	34.29	137	2	29.2	5	0.43
306	O. A. S. 17446	8.0	5	17	52	45.56	119	52	58.5	5	0.61
307	O. A. S. 17452	7.8	...	17	52	58.46	119	48	53.8	5	0.57
308	... ..	8.9	1	17	56	36.54	128	56	59.8	1	0.38
309	Stone 9840	7.5	...	17	57	33.63	127	28	30.9	5	0.47
310	... ..	7.8	...	17	58	5.33	127	26	20.2	5	0.44
311	Stone 9849	7.8	...	17	58	13.24	127	30	7.2	5	0.52
312	... ..	8.5	...	17	59	22.57	128	13	8.7	5	0.39
313	... ..	8.0	5	17	59	31.69	129	31	42.9	5	0.61
314	... ..	7.5	4	18	3	22.12	128	12	57.8	5	0.64
315	... ..	9.7	1	18	5	50.73	133	7	10.8	1	0.45

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	α Ara ...	+ 4.6325	+ 0.0143	- 0.005	+ 3.241	- 0.667	+ 0.09	Stone
282	β Scorpii ...	+ 4.0738	+ 0.0097	- 0.004	+ 3.240	- 0.587	+ 0.08	2205
283	Stone 9566 ...	+ 4.1997	+ 0.0099	...	+ 2.949	- 0.606	...	...
284	... ..	+ 4.3729	+ 0.0108	...	+ 2.779	- 0.632	...	...
285	Stone 9578 ...	+ 5.0914	+ 0.0176	...	+ 2.777	- 0.736	...	...
286	Brisbane 6132 ...	+ 4.4005	+ 0.0113	...	+ 2.735	- 0.650	...	...
287	θ Scorpii ...	+ 4.3042	+ 0.0100	+ 0.001	+ 2.713	- 0.623	+ 0.02	Stone
288	... ..	+ 4.1340	+ 0.0087	...	+ 2.691	- 0.598	...	...
289	... ..	+ 4.1201	+ 0.0081	...	+ 2.466	- 0.597	...	...
290	R. P. L. 120 ...	- 11.2557	+ 0.3396	...	+ 2.463	+ 1.628	...	...
291	... ..	+ 4.1874	+ 0.0081	...	+ 2.362	- 0.607	...	...
292	Brisbane 6160 ...	+ 4.3872	+ 0.0093	...	+ 2.327	- 0.636	...	...
293	... ..	+ 4.0072	+ 0.0124	...	+ 2.142	- 0.712	...	...
294	δ Ophiuchi ...	+ 2.0640	+ 0.0030	- 0.005	+ 1.940	- 0.431	- 0.17	2229
295	... ..	+ 4.1245	+ 0.0062	...	+ 1.785	- 0.600	...	...
296	... ..	+ 4.1250	+ 0.0060	...	+ 1.714	- 0.597	...	...
297	... ..	+ 4.8722	+ 0.0089	...	+ 1.499	- 0.709	...	...
298	... ..	+ 4.1569	+ 0.0052	...	+ 1.384	- 0.605	...	...
299	Taylor 8243 ...	+ 4.2715	+ 0.0056	...	+ 1.354	- 0.622	...	...
300	... ..	+ 4.2722	+ 0.0055	...	+ 1.204	- 0.622	...	...
301	... ..	+ 4.1619	+ 0.0049	...	+ 1.253	- 0.607	...	...
302	... ..	+ 5.5175	+ 0.0077	...	+ 0.833	- 0.804	...	...
303	... ..	+ 4.1563	+ 0.0034	...	+ 0.713	- 0.606	...	...
304	... ..	+ 4.0939	+ 0.0033	...	+ 0.677	- 0.597	...	...
305	... ..	+ 4.5073	+ 0.0039	...	+ 0.651	- 0.657	...	...
306	O. A. S. 17446 ...	+ 3.8401	+ 0.0020	...	+ 0.633	- 0.560	...	...
307	O. A. S. 17452 ...	+ 3.8381	+ 0.0029	...	+ 0.614	- 0.559	...	...
308	... ..	+ 4.1529	+ 0.0024	...	+ 0.297	- 0.605	...	...
309	Stone 9840 ...	+ 4.0973	+ 0.0022	...	+ 0.213	- 0.598	...	...
310	... ..	+ 4.0959	+ 0.0020	...	+ 0.167	- 0.597	...	...
311	Stone 9849 ...	+ 4.0983	+ 0.0020	...	+ 0.156	- 0.597	...	...
312	... ..	+ 4.1250	+ 0.0017	...	+ 0.054	- 0.602	...	...
313	... ..	+ 4.1754	+ 0.0017	...	+ 0.041	- 0.609	...	...
314	... ..	+ 4.1249	+ 0.0009	...	- 0.295	- 0.602	...	...
315	... ..	+ 4.3239	- 0.0001	...	- 0.511	- 0.630	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of year.
				h.	m.	s.	°	'	"		
316	Stone 9922	8.5	...	18	5	52.89	133	10	51.9	7	0.45
317	Stone 9924	7.8	...	18	6	0.80	131	56	16.0	5	0.41
318	... ..	7.8	...	18	6	41.70	126	55	45.0	5	0.59
319	... ..	8.8	4	18	9	4.95	131	16	17.5	4	0.52
320	23 Ursæ Minoris δ ...	4.3	...	18	10	3.20	3	23	23.5	2	0.52
321	... ..	8.0	1	18	10	21.14	126	23	38.6	1	0.39
322	... ..	8.0	4	18	13	25.62	136	5	3.0	5	0.41
323	... ..	8.8	...	18	14	12.57	127	48	38.4	1	0.40
324	Taylor 8452	5.6	...	18	14	14.53	128	42	29.1	5	0.67
325	58 Serpentis η	3.4	...	18	15	15.31	92	55	41.4	20	0.55
326	... ..	7.0	1	18	15	22.31	128	47	20.8	4	0.68
327	... ..	8.0	...	18	15	42.39	138	50	53.2	4	0.39
328	... ..	8.0	1	18	16	32.65	127	17	6.3	1	0.38
329	22 Sagittarii λ	3.1	...	18	20	44.98	115	29	6.0	20	0.58
330	... ..	8.5	...	18	22	46.04	129	38	50.7	5	0.40
331	... ..	8.3	3	18	23	24.80	127	40	10.8	5	0.45
332	Stone 10124	7.8	...	18	29	26.77	131	42	32.5	5	0.40
333	... ..	8.5	6	18	30	45.34	127	5	57.3	6	0.60
334	... ..	9.0	5	18	30	55.24	127	58	18.2	5	0.58
335	... ..	7.5	4	18	31	24.86	127	23	13.7	5	0.44
336	Stone 10154	8.0	...	18	32	12.22	134	16	33.3	3	0.38
337	... ..	8.0	5	18	34	2.27	125	42	5.5	5	0.41
338	... ..	8.0	...	18	34	16.67	124	34	17.8	5	0.69
339	Stone 10187	7.8	...	18	36	45.11	127	0	7.7	5	0.61
340	Taylor 8599	5.8	...	18	36	49.40	120	48	6.5	6	0.53
341	Taylor 8600	7.0	...	18	36	51.47	129	51	37.1	5	0.50
342	... ..	7.5	5	18	38	45.51	131	17	0.6	5	0.39
343	... ..	9.0	5	18	39	14.18	128	56	34.0	5	0.42
344	Stone 10239	8.0	...	18	42	49.47	134	36	20.4	6	0.61
345	... ..	8.3	...	18	43	31.09	134	49	13.4	5	0.66
346	Taylor 8647	7.0	...	18	43	38.57	134	40	15.1	4	0.72
347	... ..	7.9	2	18	43	48.78	125	31	2.0	3	0.70
348	... ..	9.1	5	18	45	24.16	129	28	13.7	4	0.42
349	... ..	8.5	..	18	47	6.54	133	50	46.5	5	0.67
350	Taylor 8685	5.7	...	18	48	44.17	127	29	25.4	5	0.61

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	Stone 9022 ...	+ 4.3266	- 0.0001	...	- 0.515	- 0.631	...	...
317	Stone 9024 ...	+ 4.2731	+ 0.0001	...	- 0.527	- 0.623	...	...
318	... ..	+ 4.0767	+ 0.0002	...	- 0.586	- 0.594	...	...
319	... ..	+ 4.2447	- 0.0008	...	- 0.795	- 0.619	...	...
320	23 Ursæ Minoris δ ...	- 19.4710	- 0.2912	+ 0.026	- 0.879	+ 2.837	- 0.04	2395
321	... ..	+ 4.0568	- 0.0006	...	- 0.905	- 0.591	...	...
322	... ..	+ 4.4585	- 0.0028	...	- 1.175	- 0.649	...	...
323	... ..	+ 4.1079	- 0.0015	...	- 1.243	- 0.598	...	...
324	Taylor 8452 ...	+ 4.1417	- 0.0018	...	- 1.246	- 0.602	...	...
325	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.334	- 0.456	+ 0.08	2298
326	... ..	+ 4.1445	- 0.0021	...	- 1.344	- 0.602	...	...
327	... ..	+ 4.5985	- 0.0042	...	- 1.373	- 0.668	...	...
328	... ..	+ 4.0876	- 0.0020	...	- 1.447	- 0.594	...	...
329	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.813	- 0.537	+ 0.20	2310
330	... ..	+ 4.1747	- 0.0040	...	- 1.988	- 0.605	...	...
331	... ..	+ 4.0991	- 0.0037	...	- 2.046	- 0.591	...	...
332	Stone 10124 ...	+ 4.2541	- 0.0061	...	- 2.569	- 0.615	...	...
333	... ..	+ 4.0744	- 0.0051	...	- 2.683	- 0.588	...	...
334	... ..	+ 4.1063	- 0.0053	...	- 2.698	- 0.593	...	...
335	... ..	+ 4.0845	- 0.0053	...	- 2.741	- 0.589	...	...
336	Stone 10154 ...	+ 4.3631	- 0.0079	...	- 2.809	- 0.630	...	...
337	... ..	+ 4.0225	- 0.0054	...	- 2.967	- 0.580	...	...
338	... ..	+ 3.9834	- 0.0052	...	- 2.989	- 0.574	...	...
339	Stone 10187 ...	+ 4.0669	- 0.0064	...	- 3.203	- 0.585	...	...
340	Taylor 8599 ...	+ 4.1719	- 0.0073	...	- 3.208	- 0.600	...	...
341	Taylor 8600 ...	+ 4.1742	- 0.0073	...	- 3.211	- 0.600	...	...
342	... ..	+ 4.2294	- 0.0084	...	- 3.376	- 0.607	...	...
343	... ..	+ 4.1369	- 0.0077	...	- 3.417	- 0.594	...	...
344	Stone 10239 ...	+ 4.3081	- 0.0110	...	- 3.726	- 0.625	...	...
345	... ..	+ 4.3770	- 0.0113	...	- 3.785	- 0.625	...	...
346	Taylor 8647 ...	+ 4.3701	- 0.0113	...	- 3.796	- 0.624	...	...
347	... ..	+ 4.0092	- 0.0073	...	- 3.811	- 0.573	...	...
348	... ..	+ 4.1518	- 0.0093	...	- 3.946	- 0.591	...	...
349	... ..	+ 4.3295	- 0.0117	...	- 4.098	- 0.617	...	...
350	Taylor 8685 ...	+ 4.0748	- 0.0090	...	- 4.233	- 0.579	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
351	... ..	9.5	1	18	52	14.82	132	56	57.4	1	0.41
352	Taylor 8715—1st ...	7.0	...	18	53	8.64	127	13	15.9	5	0.70
353	Taylor 8715—2nd ...	7.0	...	18	53	9.78	127	13	18.8	5	0.72
354	... ..	8.5	2	18	53	54.87	128	6	56.3	2	0.64
355	13 Aquilæ ε ...	4.1	...	18	54	18.63	75	5	22.4	20	0.58
356	Stone 10351 ...	6.1	...	18	55	18.25	128	25	12.8	4	0.75
357	... ..	7.5	...	19	0	11.78	135	15	26.1	5	0.65
358	Stone 10391 ...	7.8	...	19	0	33.02	132	36	21.7	2	0.74
359	Stone 10400 ...	7.2	...	19	1	34.57	130	0	38.1	5	0.50
360	... ..	8.5	3	19	4	10.04	135	27	41.6	3	0.61
361	Stone 10420 ...	7.0	...	19	4	14.51	127	46	27.6	5	0.75
362	Stone 10432 ...	6.3	...	19	6	8.73	135	23	24.5	2	0.60
363	... ..	7.5	2	19	7	41.63	129	24	5.3	2	0.65
364	Taylor 8823 ...	5.9	...	19	7	50.30	135	40	3.9	6	0.66
365	Stone 10451 ...	7.3	...	19	8	52.33	135	37	33.5	4	0.71
366	... ..	9.5	2	19	10	13.35	130	46	34.3	2	0.61
367	... ..	7.5	1	19	10	40.16	129	45	12.3	1	0.61
368	Stone 10465 ...	5.9	...	19	11	54.58	125	37	59.2	3	0.75
369	Stone 10467 ...	7.5	...	19	12	30.42	135	35	11.6	5	0.56
370	Stone 10487 ...	7.0	...	19	14	14.57	119	49	^{18.5} 17.6	4	0.74
371	... ..	8.3	...	19	14	18.77	127	26	18.2	5	0.68
372	... ..	8.5	...	19	17	6.82	130	4	36.7	2	0.59
373	49 Sagittarii χ ³ ...	5.9	...	19	18	24.65	114	11	24.7	2	0.76
374	... ..	9.5	5	19	19	47.76	130	13	12.0	5	0.62
375	Stone 10534 ...	8.0	...	19	21	55.22	125	19	13.6	4	0.75
376	... ..	8.0	3	19	22	5.72	132	34	16.5	4	0.63
377	... ..	9.0	1	19	25	49.63	133	42	50.9	1	0.60
378	... ..	9.0	...	19	25	58.53	146	55	2.3	2	0.70
379	Taylor 8982 ...	6.3	...	19	28	35.13	148	14	24.0	1	0.78
380	Stone 10583 ...	7.5	...	19	29	32.25	131	42	58.4	5	0.60
381	... ..	8.0	3	19	29	45.63	125	29	57.8	4	0.67
382	... ..	8.0	1	19	30	11.65	129	1	3.4	1	0.57
383	Stone 10594 ...	6.7	...	19	31	17.22	135	32	34.2	5	0.74
384	Stone 10598 ...	6.8	...	19	31	57.26	129	41	47.1	2	0.78
385	... ..	7.5	1	19	33	25.30	126	35	58.9	1	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.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
351	... ..	+ 4.2846	- 0.0126	...	- 4.533	- 0.007	...	...
352	Taylor 8715—1st.	+ 4.0607	- 0.0098	...	- 4.609	- 0.575	...	...
353	Taylor 8715—2nd.	+ 4.0607	- 0.0098	...	- 4.610	- 0.575	...	...
354	... ..	+ 4.0923	- 0.0104	...	- 4.676	- 0.579	...	...
355	13 Aquilæ ϵ	+ 2.7263	+ 0.0004	- 0.005	- 4.708	- 0.385	+ 0.08	2390
356	Stone 10851	+ 4.1020	- 0.0109	...	- 4.792	- 0.579	...	...
357	.. ..	+ 4.3750	- 0.0163	...	- 5.207	- 0.615	...	...
358	Stone 10891	+ 4.2594	- 0.0145	...	- 5.237	- 0.598	...	...
359	Stone 10400	+ 4.1543	- 0.0131	...	- 5.323	- 0.583	...	...
360	... ..	+ 4.3780	- 0.0176	...	- 5.542	- 0.612	...	...
361	Stone 10420	+ 4.0679	- 0.0124	...	- 5.548	- 0.569	...	...
362	Stone 10432	+ 4.3715	- 0.0179	...	- 5.708	- 0.610	...	...
363	... ..	+ 4.1231	- 0.0141	...	- 5.837	- 0.574	...	...
364	Taylor 8823	+ 4.3813	- 0.0187	...	- 5.850	- 0.610	...	...
365	Stone 10451	+ 4.3775	- 0.0190	...	- 5.936	- 0.608	...	...
366	... ..	+ 4.1717	- 0.0155	...	- 6.049	- 0.574	...	...
367	... ..	+ 4.1320	- 0.0149	...	- 6.085	- 0.573	...	...
368	Stone 10465	+ 3.9839	- 0.0127	...	- 6.190	- 0.550	...	...
369	Stone 10467	+ 4.3692	- 0.0199	...	- 6.239	- 0.603	...	...
370	Stone 10487	+ 3.7989	- 0.0103	...	- 6.382	- 0.523	...	...
371	... ..	+ 4.0426	- 0.0112	...	- 6.388	- 0.557	...	...
372	... ..	+ 4.1342	- 0.0166	...	- 6.621	- 0.567	...	...
373	49 Sagittarii χ^2	+ 3.6381	- 0.0085	- 0.003	- 6.729	- 0.497	+ 0.01	2446
374	... ..	+ 4.1351	- 0.0167	...	- 6.842	- 0.565	...	...
375	Stone 10534	+ 3.9597	- 0.0144	...	- 7.017	- 0.539	...	...
376	... ..	+ 4.2237	- 0.0195	..	- 7.031	- 0.574	..	...
377	... ..	+ 4.2619	- 0.0214	...	- 7.335	- 0.576	...	...
378	... ..	+ 4.9917	- 0.0408	...	- 7.348	- 0.674	...	...
379	Taylor 8982	+ 5.0736	- 0.0452	...	- 7.561	- 0.682	...	...
380	Stone 10583	+ 4.1744	- 0.0205	...	- 7.637	- 0.561	...	...
381	... ..	+ 3.9538	- 0.0158	...	- 7.655	- 0.531	...	...
382	... ..	+ 4.0729	- 0.0184	...	- 7.690	- 0.546	...	...
383	Stone 10594	+ 4.3231	- 0.0246	...	- 7.778	- 0.580	...	...
384	Stone 10598	+ 4.0941	- 0.0192	...	- 7.833	- 0.548	...	...
385	... ..	+ 3.9838	- 0.0172	...	- 7.950	- 0.531	...	...

Mean Positions of Stars for 1888, 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>		
386	Stone 10622	6.1	...	19	35	48.42	127	48	47.2	2	0.74
387	Stone 10624	7.2	...	19	36	21.52	131	53	8.2	3	0.78
388	R. P. L. 133	7.9	...	19	37	46.97	4	9	17.2	14	0.39
389	R. P. L. 134	8.5	...	19	39	34.88	4	9	32.2	16	0.32
390	...	8.0	3	19	39	48.75	125	27	35.9	3	0.59
391	...	7.8	...	19	40	25.74	128	8	6.1	5	0.70
392	Stone 10658	7.0	...	19	41	45.01	128	4	1.6	6	0.73
393	Stone 10665	6.7	...	19	42	49.76	141	16	11.3	5	0.79
394	Taylor 9112	5.6	...	19	43	53.65	130	10	9.5	2	0.57
395	Stone 10677	6.9	...	19	43	59.78	127	37	47.8	5	0.70
396	Taylor 9131	7.0	...	19	47	16.59	148	13	51.9	2	0.75
397	...	8.5	1	19	48	9.62	131	59	53.1	2	0.65
398	...	8.0	...	19	50	19.15	132	59	35.1	1	0.72
399	Stone 10720	6.9	...	19	50	30.12	126	59	48.8	5	0.78
400	Stone 10727	6.5	...	19	51	34.59	120	51	2.1	5	0.74
401	Stone 10789	6.7	...	19	52	18.08	133	21	38.8	4	0.79
402	Stone 10752	8.0	...	19	53	51.58	126	59	55.9	5	0.71
403	...	8.0	1	19	54	25.56	130	18	18.3	1	0.62
404	Taylor 9195	5.0	...	19	55	46.79	128	15	46.0	5	0.77
405	...	9.0	4	19	56	54.69	131	48	50.5	4	0.64
406	Taylor 9213	6.5	...	19	58	21.86	145	21	0.0	5	0.79
407	...	9.5	2	19	58	30.50	148	10	37.3	2	0.60
408	Stone 10792	7.3	...	19	59	43.80	125	51	59.7	5	0.74
409	Stone 10797	6.6	...	20	0	38.87	137	24	12.0	3	0.78
410	Stone 10823	6.8	...	20	5	6.58	138	3	38.5	5	0.79
411	65 Aquilæ θ	3.4	...	20	5	16.01	91	10	3.2	20	0.69
412	Taylor 9303	6.2	...	20	7	59.41	117	22	52.3	2	0.78
413	Stone 10840	6.5	...	20	8	46.49	126	48	34.5	5	0.79
414	Stone 10858	7.5	...	20	10	48.15	134	53	13.9	3	0.63
415	Stone 10859	6.3	...	20	10	52.69	137	56	11.5	5	0.75
416	Taylor 9343	6.5	...	20	13	10.93	140	21	33.5	4	0.81
417	Stone 10884	7.3	...	20	13	48.94	128	6	20.3	5	0.69
418	...	8.5	...	20	14	42.99	133	19	31.5	5	0.70
419	Taylor 9370	5.6	...	20	15	55.57	132	47	50.3	5	0.78
420	R. P. L. 138	7.1	...	20	16	18.24	5	40	30.6	5	0.68

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	Stone 10622 ...	+ 4.0192	- 0.0184	...	- 8.142	- 0.534	...	...
387	Stone 10624 ...	+ 4.1668	- 0.0221	...	- 8.184	- 0.553	...	...
388	R. P. L. 133 ...	- 13.6822	- 1.6816	...	- 8.290	+ 1.821	...	...
389	R. P. L. 134 ...	- 13.6049	- 1.7006	...	- 8.442	+ 1.804	...	...
390	... ..	+ 3.9356	- 0.0175	...	- 8.460	- 0.517	...	...
391	... ..	+ 4.0227	- 0.0195	...	- 8.500	- 0.528	...	...
392	Stone 10658 ...	+ 4.0178	- 0.0197	...	- 8.614	- 0.526	...	...
393	Stone 10665 ...	+ 4.5743	- 0.0356	...	- 8.690	- 0.598	...	...
394	Taylor 9112 ...	+ 4.0860	- 0.0218	...	- 8.783	- 0.533	...	...
395	Stone 10677 ...	+ 3.9987	- 0.0197	...	- 8.791	- 0.521	...	...
396	Taylor 9131 ..	+ 4.9989	- 0.0530	...	- 9.048	- 0.648	...	...
397	... ..	+ 4.1444	- 0.0245	...	- 9.117	- 0.535	...	...
398	... ..	+ 4.1772	- 0.0256	...	- 9.284	- 0.537	...	...
399	Stone 10720 ...	+ 3.9648	- 0.0202	...	- 9.299	- 0.509	...	...
400	Stone 10727 ...	+ 3.7781	- 0.0159	...	- 9.382	- 0.484	...	...
401	Stone 10739 ...	+ 4.1868	- 0.0268	...	- 9.430	- 0.536	...	...
402	Stone 10752 ...	+ 3.9579	- 0.0208	...	- 9.558	- 0.505	...	...
403	... ..	+ 4.0678	- 0.0239	...	- 9.601	- 0.518	...	...
404	Taylor 9195 ...	+ 3.9950	- 0.0222	...	- 9.706	- 0.507	...	...
405	... ..	+ 4.1161	- 0.0259	...	- 9.792	- 0.521	...	...
406	Taylor 9213 ...	+ 4.7543	- 0.0488	...	- 9.903	- 0.600	...	...
407	... ..	+ 4.9444	- 0.0572	...	- 9.914	- 0.623	...	...
408	Stone 10792 ...	+ 3.9099	- 0.0207	...	- 10.006	- 0.491	...	...
409	Stone 10797 ...	+ 4.3295	- 0.0338	...	- 10.074	- 0.543	...	...
410	Stone 10823 ...	+ 4.3441	- 0.0358	...	- 10.412	- 0.539	...	...
411	65 Aquila θ ...	+ 3.0957	- 0.0042	- 0.000	- 10.423	- 0.382	- 0.01	2576
412	Taylor 9303 ...	+ 3.6596	- 0.0155	...	- 10.626	- 0.448	...	...
413	Stone 10840 ...	+ 3.9190	- 0.0228	...	- 10.684	- 0.480	...	...
414	Stone 10858 ..	+ 4.1929	- 0.0323	...	- 10.835	- 0.511	...	...
415	Stone 10859 ...	+ 4.3188	- 0.0368	...	- 10.840	- 0.526	...	...
416	Taylor 9343 ...	+ 4.4211	- 0.0417	...	- 11.009	- 0.535	...	...
417	Stone 10884 ...	+ 3.7996	- 0.0202	...	- 11.055	- 0.458	...	...
418	... ..	+ 4.1210	- 0.0308	...	- 11.121	- 0.496	...	...
419	Taylor 9370 ..	+ 4.0988	- 0.0303	...	- 11.208	- 0.492	...	...
420	R. P. L. 138 ...	- 8.0705	- 1.0526	...	- 11.236	+ 0.980	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	'	"	"		
421	... ..	7.8	2	20	20	6.56	130	23	43.1	3	0.73
422	Taylor 9415	6.3	...	20	21	16.01	125	58	50.5	5	0.77
423	Stone 10939	6.5	...	20	23	46.73	119	30	11.9	5	0.80
424	Taylor 9464	7.8	...	20	26	40.77	112	37	37.0	4	0.79
425	R. P. L. 143	6.7	...	20	26	58.79	5	14	40.0	1	0.57
426	2 Delphini ϵ	4.1	...	20	27	37.31	79	5	37.2	25	0.72
427	Stone 11003	7.3	...	20	32	23.44	126	26	32.9	5	0.80
428	Taylor 9519	6.4	...	20	33	34.17	132	32	47.2	2	0.69
429	Taylor 9544	6.7	...	20	35	13.01	129	58	32.0	5	0.79
430	Taylor 9561	7.2	...	20	37	14.80	126	14	54.0	4	0.80
431	... ..	8.0	1	20	37	38.38	126	31	44.5	4	0.74
432	Taylor 9573	7.0	...	20	39	21.10	136	16	49.3	2	0.80
433	2 Aquarii ϵ	3.8	...	20	41	20.45	99	55	23.6	21	0.72
434	... ..	8.0	...	20	41	44.10	132	8	36.9	1	0.74
435	Taylor 9602	6.1	...	20	42	20.56	116	12	43.2	5	0.78
436	Stone 11081	7.5	...	20	43	59.40	131	20	28.7	1	0.73
437	Stone 11091	7.5	...	20	44	40.91	142	9	10.9	1	0.81
438	... ..	8.0	3	20	45	22.41	135	45	24.1	3	0.74
439	Stone 11103	6.6	...	20	46	13.38	141	10	0.8	5	0.69
440	Stone 11115	6.7	...	20	47	5.52	118	21	59.2	2	0.82
441	Stone 11120	7.8	...	20	47	24.40	145	39	55.4	5	0.80
442	... ..	8.5	1	20	52	32.74	129	10	32.6	2	0.70
443	Stone 11150	8.0	...	20	53	34.41	129	11	31.8	1	0.70
444	Stone 11156	7.0	...	20	54	13.41	123	21	6.5	5	0.78
445	Stone 11175	7.8	...	20	56	1.45	142	21	22.1	5	0.76
446	Stone 11186	7.3	...	20	57	44.24	127	41	30.7	2	0.78
447	Stone 11191	7.5	...	20	58	12.51	138	59	25.7	4	0.83
448	23 Capricorni θ	4.3	...	20	59	22.11	107	41	50.2	20	0.73
449	... ..	8.0	1	21	0	13.05	150	59	40.0	1	0.79
450	Stone 11227	6.8	...	21	1	58.60	134	40	55.2	5	0.79
451	Taylor 9809	5.7	...	21	5	33.65	129	54	2.0	5	0.75
452	Taylor 9843	6.6	...	21	9	53.94	139	12	11.1	5	0.75
453	Taylor 9889	6.7	...	21	14	52.11	119	39	40.8	5	0.76
454	33 Capricorni	5.7	...	21	17	31.27	111	20	51.6	5	0.76
455	Stone 11367	7.0	...	21	21	39.57	152	40	34.0	5	0.77

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.	
421	...	+ 4.0039	- 0.0280	...	- 11.510	- 0.474	...	...
422	Taylor 9415	+ 3.8643	- 0.0235	...	- 11.593	- 0.456	...	...
423	Stone 10930	+ 3.6848	- 0.0184	...	- 11.771	- 0.431	...	...
424	Taylor 9464	+ 3.5193	- 0.0141	...	- 11.977	- 0.408	...	...
425	R. P. L. 143	- 8.5987	- 1.2839	...	- 11.998	+ 1.010	...	...
426	2 Delphini ϵ	+ 2.8664	- 0.0013	- 0.001	- 12.042	- 0.330	+ 0.02	2642
427	Stone 11003	+ 3.8402	- 0.0251	...	- 12.374	- 0.438	...	...
428	Taylor 9519	+ 4.0310	- 0.0324	...	- 12.454	- 0.457	...	...
429	Taylor 9544	+ 3.9458	- 0.0294	...	- 12.568	- 0.445	...	...
430	Taylor 9561	+ 3.8808	- 0.0255	...	- 12.704	- 0.428	...	...
431	...	+ 3.8376	- 0.0239	...	- 12.732	- 0.429	...	...
432	Taylor 9573	+ 4.1458	- 0.0390	...	- 12.847	- 0.460	...	...
433	2 Aquarii ϵ	+ 3.2506	- 0.0084	- 0.000	- 12.979	- 0.356	+ 0.03	2681
434	...	+ 3.9933	- 0.0330	...	- 13.006	- 0.439	...	...
435	Taylor 9602	+ 3.5722	- 0.0174	...	- 13.046	- 0.391	...	...
436	Stone 11081	+ 3.9000	- 0.0321	...	- 13.156	- 0.431	...	...
437	Stone 11091	+ 4.3675	- 0.0517	...	- 13.201	- 0.475	...	...
438	...	+ 4.1030	- 0.0387	...	- 13.247	- 0.444	...	...
439	Stone 11103	+ 4.3151	- 0.0495	...	- 13.303	- 0.466	...	...
440	Stone 11115	+ 3.6107	- 0.0192	...	- 13.360	- 0.388	...	...
441	Stone 11120	+ 4.5302	- 0.0620	...	- 13.380	- 0.488	...	...
442	...	+ 3.8673	- 0.0301	...	- 13.711	- 0.407	...	...
443	Stone 11150	+ 3.8646	- 0.0302	...	- 13.777	- 0.405	...	...
444	Stone 11156	+ 3.7100	- 0.0240	...	- 13.819	- 0.387	...	...
445	Stone 11175	+ 4.3183	- 0.0533	...	- 13.932	- 0.448	...	...
446	Stone 11186	+ 3.8100	- 0.0288	...	- 14.039	- 0.392	...	...
447	Stone 11191	+ 4.1679	- 0.0464	...	- 14.069	- 0.429	...	...
448	23 Capricorni 0	+ 3.3748	- 0.0128	+ 0.004	- 14.141	- 0.344	+ 0.05	2733
449	...	+ 4.7754	- 0.0859	...	- 14.194	- 0.488	...	...
450	Stone 11227	+ 3.9991	- 0.0388	...	- 14.302	- 0.404	...	...
451	Taylor 9809	+ 3.8433	- 0.0320	...	- 14.521	- 0.382	...	...
452	Taylor 9843	+ 4.1198	- 0.0480	...	- 14.779	- 0.402	...	...
453	Taylor 9889	+ 3.5747	- 0.0217	...	- 15.070	- 0.339	...	...
454	33 Capricorni	+ 3.4126	- 0.0154	- 0.003	- 15.221	- 0.318	+ 0.12	2778
455	Stone 11367	+ 4.7211	- 0.0977	...	- 15.456	- 0.434	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
456	R. P. L. 149	7.5	...	21	22	44.14	3	26	56.8	2	0.69
457	Stone 11390	6.0	...	21	25	48.27	135	21	53.9	5	0.75
458	Stone 11403	6.3	...	21	28	41.51	155	20	49.0	5	0.76
459	Stone 11428	6.5	...	21	32	3.73	124	12	14.8	5	0.75
460	Stone 11434	6.7	...	21	32	25.86	133	39	32.0	2	0.69
461	Taylor 10073	7.0	...	21	36	6.41	146	0	23.7	5	0.75
462	Stone 11470	7.3	...	21	37	46.37	128	58	35.3	3	0.71
463	8 Pegasi ε	2.4	...	21	38	26.36	80	39	38.6	20	0.82
464	Taylor 10109	5.8	...	21	40	33.78	137	50	3.2	5	0.75
465	Taylor 10164	6.5	...	21	48	14.60	143	0	53.8	5	0.75
466	Taylor 10172	5.8	...	21	49	19.96	127	48	27.0	5	0.75
467	Stone 11555	6.7	...	21	51	15.87	134	37	5.7	5	0.79
468	... ..	8.3	2	21	52	5.53	132	36	2.3	3	0.70
469	Taylor 10192	5.8	...	21	52	13.27	128	57	12.0	5	0.81
470	Stone 11574	6.9	...	21	53	59.54	127	6	56.5	5	0.76
471	Taylor 10232	6.1	...	21	57	57.30	117	23	18.1	6	0.75
472	Stone 11601	6.9	...	21	58	48.87	134	31	59.0	2	0.70
473	34 Aquarii α	3.2	...	21	59	46.40	90	53	17.0	21	0.85
474	Stone 11610	8.0	...	22	0	9.06	120	11	10.3	5	0.76
475	43 Aquarii θ	4.3	...	22	10	39.50	98	21	56.3	23	0.84
476	48 Aquarii γ	4.1	...	22	15	36.71	91	58	34.3	10	0.75
477	73 Aquarii λ	3.8	...	22	46	30.49	98	12	6.6	15	0.83
478	54 Pegasi α (<i>Mankab</i>)	2.6	...	22	58	55.91	75	25	27.9	11	0.85
479	6 Piscium γ	3.8	..	23	11	5.91	87	21	24.5	8	0.92
480	R. P. L. 158	5.7	...	23	27	49.68	3	20	16.9	10	0.83

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.	
		<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
456	R. P. L. 149 ...	- 10.9818	- 3.1234	...	- 15.515	+ 1.022	...	...
457	Stone 11390 ...	+ 3.9161	- 0.0416	...	- 15.684	- 0.350	...	...
458	Stone 11403 ...	+ 4.8588	- 0.1166	...	- 15.840	- 0.430	...	...
459	Stone 11428 ...	+ 3.6190	- 0.0265	...	- 16.019	- 0.312	...	...
460	Stone 11434 ...	+ 3.8382	- 0.0389	...	- 16.038	- 0.330	...	...
461	Taylor 10073	+ 4.2368	- 0.0679	...	- 16.230	- 0.357	..	...
462	Stone 11470 ...	+ 3.7012	- 0.0323	...	- 16.315	- 0.308	...	...
463	8 Pegasi ϵ ...	+ 2.9451	- 0.0005	+ 0.001	- 16.348	- 0.242	- 0.01	2885
464	Taylor 10109	+ 3.9157	- 0.0466	...	- 16.450	- 0.320	...	...
465	Taylor 10164	+ 4.0375	- 0.0588	...	- 16.830	- 0.315	...	...
466	Taylor 10172	+ 3.6322	- 0.0309	...	- 16.881	- 0.280	...	...
467	Stone 11555 ...	+ 3.7740	- 0.0407	...	- 16.973	- 0.287	...	...
468	... ..	+ 3.7234	- 0.0375	...	- 17.010	- 0.282	...	...
469	Taylor 10192	+ 3.6442	- 0.0323	...	- 17.017	- 0.275	...	...
470	Stone 11574 ...	+ 3.6009	- 0.0300	...	- 17.099	- 0.269	...	...
471	Taylor 10232	+ 3.4240	- 0.0204	...	- 17.277	- 0.248	...	...
472	Stone 11601 ...	+ 3.7359	- 0.0405	...	- 17.315	- 0.269	...	..
473	34 Aquarii α ...	+ 3.0828	- 0.0041	- 0.001	- 17.358	- 0.219	- 0.00	2890
474	Stone 11610 . .	+ 3.4407	- 0.0228	...	- 17.375	- 0.245	...	...
475	43 Aquarii θ ...	+ 3.1626	- 0.0075	+ 0.006	- 17.814	- 0.205	+ 0.02	2929
476	48 Aquarii γ ...	+ 3.0927	- 0.0042	+ 0.007	- 18.006	- 0.191	- 0.02	2943
477	73 Aquarii λ ...	+ 3.1331	- 0.0063	- 0.002	- 19.032	- 0.137	- 0.04	3019
478	54 Pegasi α ...	+ 2.9808	+ 0.0050	+ 0.003	- 19.346	- 0.107	+ 0.03	3050
479	6 Piscium γ ...	+ 3.0592	+ 0.0005	+ 0.049	- 19.599	- 0.087	- 0.02	3082
480	R. P. L. 158 ...	- 0.1339	- 0.5501	+ 0.084	- 19.857	+ 0.011	+ 0.00	3147