MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1876

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1876, *January* 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
1	11 Cassiopeiæ β	2·4	...	0	2	34·26	31	32	3·8	2	0·95
2	ϵ Phœnicis	4·4	2	0	3	6·81	136	25	54·6	2	0·96
3	8 Ceti ι	3·6	...	0	13	6·58	99	30	42·3	4	0·95
4	O. A. N. 282	8·1	5	0	16	42·31	34	53	8·0	5	0·83
5	κ Phœnicis	4·1	3	0	20	5·87	134	22	7·1	3	0·95
6	α Phœnicis	2·1	3	0	20	9·13	132	58	47·6	3	0·96
7	12 Ceti	6·2	...	0	23	42·65	94	38	34·3	1	0·90
8	β Tucanæ—1st	4·4	2	0	25	51·39	153	38	33·1	2	0·95
9	β Tucanæ—2nd	4·7	3	0	25	52·01	153	38	57·4	3	0·97
10	31 Andromedæ δ... ...	3·4	...	0	32	42·05	59	49	5·7	3	0·95
11	16 Ceti β	2·1	...	0	37	21·80	108	40	3·2	1	0·87
12	24 Cassiopeiæ η—1st ...	4·4	4	0	41	36·85	32	50	34·4	4	0·95
13	24 Cassiopeiæ η—2nd ...	8·3	4	0	41	37·09	32	50	38·3	4	0·96
14	27 Cassiopeiæ γ	2·3	...	0	49	14·46	29	57	18·1	3	0·96
15	2 Ursæ Minoris	4·5	...	0	52	8·26	4	24	34·7	7	0·69
16	R. P. L. 14	6·2	...	0	55	38·90	3	31	0·4	2	0·34
17	71 Piscium ϵ	4·5	...	0	56	30·55	82	46	41·3	1	0·87
18	β Phœnicis	3·7	4	1	0	32·87	137	23	1·2	4	0·95
19	31 Ceti η	3·6	...	1	2	21·05	100	50	24·7	2	0·96
20	43 Andromedæ β (*Mirach*)	2·2	...	1	2	47·50	55	2	15·1	2	0·97
21	R. P. L. 18	7·9	...	1	11	53·74	2	5	5·5	1	0·36
22	37 Cassiopeiæ δ	2·8	...	1	17	43·28	30	24	37·5	3	0·95
23	45 Ceti θ [1]...	3·8	...	1	17	49·43	98	49	25·1	3	0·97
24	γ Phœnicis	3·4	3	1	22	58·60	133	57	15·9	3	0·97
25	δ Phœnicis	4·3	3	1	26	5·04	139	43	4·1	3	0·96
26	106 Piscium ν	4·7	...	1	34	58·73	85	8	25·1	7	0·94
27	52 Ceti τ	3·6	...	1	38	18·18	106	35	27·7	4	0·97
28	55 Ceti ζ	3·9	...	1	45	20·44	100	56	55·1	3	0·97
29	45 Cassiopeiæ ϵ	3·6	...	1	45	29·58	26	56	30·0	2	0·96
30	6 Arietis β	2·8	...	1	47	47·44	69	47	56·8	2	0·93
31	χ Eridani	4·0	4	1	51	8·04	142	13	37·2	4	0·95
32	α Hydri	3·0	3	1	54	51·81	152	10	27·5	3	0·97
33	57 Andromedæ γ—1st ...	2·2	...	1	56	17·55	48	15	59·2	1	0·97
34	57 Andromedæ γ—2nd ...	5·0	...	1	56	18·40	48	15	54·3	2	0·97
35	13 Arietis α	2·0	...	2	0	11·12	67	7	31·0	6	0·95

15.—12 R. P. L. 16.—Groombridge 195. 21.—Carrington 183.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
1	11 Cassiopeiæ β ...	+ 3·0966	+ 0·0514	+ 0·066	− 20·053	+ 0·014	+ 0·19	3216
2	ϵ Phœnicis	+ 3·0531	− 0·0289	+ 0·008	− 20·053	+ 0·015	+ 0·19	Stone
3	8 Ceti ι	+ 3·0595	− 0·0023	− 0·003	− 20·022	+ 0·034	+ 0·03	14
4	O. A. N. 282... ...	+ 3·2120	+ 0·0492	...	− 20·000	+ 0·042	...	...
5	κ Phœnicis	+ 2·9577	− 0·0239	...	− 19·977	+ 0·047	...	...
6	α Phœnicis	+ 2·9628	− 0·0227	+ 0·022	− 19·977	+ 0·047	+ 0·40	Stone
7	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·947	+ 0·055	+ 0·01	38
8	β Tucanæ—1st ...	+ 2·7686	− 0·0446	+ 0·008	− 19·927	+ 0·054	+ 0·03	Stone
9	β Tucanæ—2nd ...	+ 2·7682	− 0·0446	+ 0·008	− 19·927	+ 0·054	+ 0·03	Stone
10	31 Andromedæ δ ...	+ 3·1828	+ 0·0221	+ 0·010	− 19·850	+ 0·075	+ 0·08	57
11	16 Ceti β	+ 2·9989	− 0·0055	+ 0·015	− 19·788	+ 0·080	− 0·03	70
12	24 Cassiop. η—1st ...	+ 3·4464	+ 0·0606	+ 0·135	− 19·724	+ 0·099	+ 0·48	79
13	24 Cassiop. η—2nd ...							
14	27 Cassiopeiæ γ ...	+ 3·5668	+ 0·0714	+ 0·001	− 19·594	+ 0·119	+ 0·02	99
15	2 Ursæ Minoris ...	+ 6·9813	+ 1·3408	+ 0·068	− 19·538	+ 0·238	+ 0·01	92
16	R. P. L. 14	+ 8·2973	+ 2·0793	+ 0·054	− 19·468	+ 0·299	+ 0·02	95
17	71 Piscium ϵ... ...	+ 3·1136	+ 0·0087	− 0·007	− 19·448	+ 0·119	− 0·04	113
18	β Phœnicis	+ 2·6928	− 0·0183	− 0·006	− 19·359	+ 0·111	+ 0·04	Stone
19	31 Ceti η	+ 3·0034	0·0000	+ 0·013	− 19·317	+ 0·126	+ 0·12	141
20	43 Andromedæ β ...	+ 3·3252	+ 0·0286	+ 0·014	− 19·307	+ 0·139	+ 0·08	140
21	R. P. L. 18	+ 14·4035	+ 6·5422	...	− 19·076	+ 0·651	...	...
22	37 Cassiopeiæ δ ...	+ 3·8300	+ 0·0773	+ 0·038	− 18·912	+ 0·194	+ 0·04	180
23	45 Ceti θ^1	+ 3·0031	+ 0·0018	− 0·007	− 18·909	+ 0·154	+ 0·20	184
24	γ Phœnicis	+ 2·6159	− 0·0125	− 0·004	− 18·754	+ 0·143	+ 0·24	Stone
25	δ Phœnicis	+ 2·4936	− 0·0139	+ 0·009	− 18·657	+ 0·141	− 0·14	Stone
26	106 Piscium ν ...	+ 3·1180	+ 0·0091	− 0·003	− 18·357	+ 0·191	− 0·01	228
27	52 Ceti τ	+ 2·9065	− 0·0004	− 0·122	− 18·238	+ 0·184	− 0·86	233
28	55 Ceti ζ	+ 2·9576	+ 0·0023	+ 0·000	− 17·973	+ 0·199	+ 0·03	247
29	45 Cassiopeiæ ϵ ...	+ 4·2412	+ 0·0993	+ 0·004	− 17·967	+ 0·283	+ 0·02	239
30	6 Arietis β	+ 3·2952	+ 0·0183	+ 0·005	− 17·877	+ 0·226	+ 0·10	252
31	χ Eridani	+ 2·2680	− 0·0087	+ 0·067	− 17·740	+ 0·162	− 0·25	Stone
32	α Hydri	+ 1·8522	− 0·0027	+ 0·034	− 17·588	+ 0·138	− 0·01	Stone
33	57 Androm. γ—1st...	+ 3·6517	+ 0·0393	+ 0·002	− 17·525	+ 0·266	+ 0·05	276
34	57 Androm. γ—2nd...	+ 3·6518	+ 0·0393	+ 0·002	− 17·525	+ 0·266	+ 0·05	
35	13 Arietis α	+ 3·3547	+ 0·0203	+ 0·013	− 17·359	+ 0·252	+ 0·13	287

2—6—8—9—18—24—25—31—32.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	65 Ceti ξ^1	4·4	...	2	6	25·61	81	44	8·8	1	0·94
37	67 Ceti	5·5	...	2	10	47·91	96	59	40·6	6	0·96
38	ϕ Eridani	4·3	2	2	12	4·72	142	5	13·0	2	0·95
39	S Persei, Var. 4	9·2	8	2	13	58·05	31	58	55·1	8	0·04
40	... ...	8·5	4	2	14	22·96	31	43	59·7	4	0·26
41	δ Hydri	5·4	...	2	19	33·04	159	13	27·5	2	0·98
42	73 Ceti ξ^2	4·4	...	2	21	33·98	82	5	48·7	6	0·95
43	82 Ceti δ	4·1	...	2	33	7·56	90	12	27·7	4	0·95
44	ι Eridani	4·2	3	2	35	46·07	130	23	13·9	3	0·97
45	86 Ceti γ	3·6	...	2	36	52·58	87	17	16·5	10	0·66
46	89 Ceti π	4·3	...	2	38	13·26	104	23	4·1	2	0·97
47	41 Arietis	3·8	...	2	42	41·24	63	15	3·6	2	0·95
48	3 Eridani η	4·0	...	2	50	22·09	99	23	32·9	3	0·96
49	θ Eridani—1st	3·6	3	2	53	33·48	130	48	10·0	3	0·97
50	θ Eridani—2nd	5·9	2	2	53	34·38	130	48	8·5	3	0·97
51	92 Ceti α (*Menkar*) ...	2·7	...	2	55	47·89	86	23	51·4	8	0·48
52	11 Eridani τ^3	4·1	...	2	56	55·37	114	6	43·1	3	0·95
53	R. P. L. 33	5·8	...	3	3	16·66	5	32	2·5	4	0·26
54	57 Arietis δ	4·5	...	3	4	32·39	70	44	38·5	9	0·53
55	12 Eridani	3·8	...	3	6	48·21	119	28	37·7	4	0·95
56	18 Eridani ζ	4·8	...	3	9	48·52	99	16	53·4	3	0·98
57	16 Eridani τ^4	3·8	...	3	13	59·84	112	12	38·7	1	0·99
58	R. P. L. 34	5·9	...	3	26	3·82	3	44	54·6	5	0·57
59	18 Eridani ϵ	3·7	...	3	27	5·32	99	52	45·0	1	0·97
60	19 Eridani τ^5	4·2	...	3	28	18·61	112	2	59·9	1	0·99
61	23 Eridani δ	3·7	...	3	37	18·47	100	11	4·4	1	0·99
62	25 Tauri η (*Alcyone*) ..	3·0	...	3	40	6·93	66	16	48·4	8	0·37
63	υ^2 Eridani	4·1	2	3	44	48·83	126	34	36·9	2	0·98
64	34 Eridani γ^1	3·0	...	3	52	14·60	103	51	45·9	11	0·21
65	R. P. L. 35	6·7	...	3	58	15·12	4	46	30·9	9	0·39
66	Lalande 7655	8·1	2	4	1	7·73	70	35	42·4	2	0·01
67	38 Eridani o^1	4·1	...	4	5	48·72	97	9	45·2	5	0·22
68	γ Doradûs	4·5	...	4	12	46·58	141	47	59·5	1	0·99
69	41 Eridani υ^4	3·3	...	4	13	12·08	124	6	8·5	1	0·96
70	T Tauri, Var. 6	10·0	6	4	14	45·58	70	45	41·6	6	0·02

53.—Groombridge 595.
58.—Groombridge 642.
65.—Groombridge 750.
66.—Comparison star for Sylvia in 1877.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	65 Ceti ξ^1	+ 3·1741	+ 0·0116	− 0·003	− 17·079	+ 0·249	+ 0·00	306
37	67 Ceti	+ 2·9836	+ 0·0049	+ 0·004	− 16·876	+ 0·242	+ 0·11	321
38	ϕ Eridani	+ 2·1368	− 0·0044	+ 0·005	− 16·817	+ 0·177	+ 0·05	Stone
39	S Persei, Var. 4 ...	+ 4·2537	+ 0·0782	...	− 16·725	+ 0·348	...	...
40	... ...	+ 4·2685	+ 0·0791	...	− 16·704	+ 0·350	...	...
41	δ Hydri	+ 1·0566	+ 0·0292	− 0·010	− 16·450	+ 0·095	− 0·01	Stone
42	73 Ceti ξ^2	+ 3·1797	+ 0·0117	+ 0·001	− 16·349	+ 0·276	+ 0·00	347
43	82 Ceti δ	+ 3·0692	+ 0·0081	+ 0·000	− 15·743	+ 0·284	+ 0·01	372
44	ι Eridani	+ 2·3573	− 0·0020	+ 0·003	− 15·600	+ 0·223	+ 0·06	Stone
45	86 Ceti γ	+ 3·1123	+ 0·0094	− 0·011	− 15·537	+ 0·294	+ 0·16	383
46	89 Ceti π	+ 2·8538	+ 0·0033	− 0·003	− 15·462	+ 0·272	+ 0·01	388
47	41 Arietis	+ 3·5114	+ 0·0229	+ 0·003	− 15·211	+ 0·340	+ 0·12	395
48	3 Eridani η	+ 2·9228	+ 0·0052	+ 0·004	− 14·764	+ 0·294	+ 0·22	413
49	θ Eridani—1st ...	+ 2·2793	− 0·0004	...	− 14·573	+ 0·234	...	...
50	θ Eridani—2nd ...	+ 2·2793	− 0·0004	...	− 14·573	+ 0·234	...	...
51	92 Ceti α (*Menkar*) ...	+ 3·1306	+ 0·0098	− 0·003	− 14·438	+ 0·323	+ 0·07	428
52	11 Eridani τ^3 ...	+ 2·6550	+ 0·0018	− 0·012	− 14·369	+ 0·276	+ 0·04	434
53	R. P. L. 33 ...	+ 12·9678	+ 1·6028	+ 0·045	− 13·977	+ 1·362	+ 0·12	402
54	57 Arietis δ	+ 3·4090	+ 0·0171	+ 0·010	− 13·896	+ 0·364	− 0·01	446
55	12 Eridani	+ 0·5223	+ 0·0012	+ 0·025	− 13·754	+ 0·273	− 0·66	454
56	13 Eridani ζ	+ 2·9112	+ 0·0056	− 0·002	− 13·560	+ 0·318	− 0·04	457
57	16 Eridani τ^4 ...	+ 2·6634	+ 0·0026	+ 0·001	− 13·288	+ 0·297	− 0·04	469
58	R. P. L. 34	+ 19·0456	+ 3·2349	+ 0·136	− 12·480	+ 2·180	+ 0·06	Gr.
59	18 Eridani ϵ	+ 2·8894	+ 0·0055	− 0·068	− 12·410	+ 0·336	− 0·01	493
60	19 Eridani τ^5 ...	+ 2·6451	+ 0·0030	+ 0·001	− 12·324	+ 0·309	+ 0·04	495
61	23 Eridani δ	+ 2·8771	+ 0·0055	− 0·008	− 11·695	+ 0·346	− 0·74	515
62	25 Tauri η (*Alcyone*)	+ 3·5536	+ 0·0177	− 0·000	− 11·495	+ 0·430	+ 0·04	521
63	υ^2 Eridani	+ 2·2477	+ 0·0026	− 0·008	− 11·155	+ 0·277	+ 0·07	Stone
64	34 Eridani γ^1 ...	+ 2·7922	+ 0·0047	+ 0·003	− 10·609	+ 0·351	+ 0·11	546
65	R. P. L. 35 ...	+ 16·8711	+ 1·8097	+ 0·057	− 10·160	+ 2·125	− 0·05	Gr.
66	Lalande 7655 ...	+ 3·4812	+ 0·0139	...	− 9·042	+ 0·445	...	...
67	38 Eridani o^1 ...	+ 2·9247	+ 0·0058	− 0·001	− 9·583	+ 0·379	− 0·09	568
68	γ Doradûs	+ 1·5558	+ 0·0076	+ 0·004	− 9·044	+ 0·206	− 0·10	Stone
69	41 Eridani υ^4 ...	+ 2·2634	+ 0·0031	− 0·001	− 9·011	+ 0·299	− 0·01	590
70	T Tauri, Var. 6 ...	+ 3·4905	+ 0·0128	...	− 8·888	+ 0·460	...	...

38—41—44—63—68.—Proper motions from *Stone's Cape Catalogue.*
65.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	43 Eridani ν^5	4·0	1	4	19	22·45	124	18	20·9	1	0·99
72	74 Tauri ϵ...	3·7	...	4	21	22·59	71	5	47·8	7	0·42
73	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	48·36	73	44	32·1	5	0·40
74	α Doradûs	3·8	2	4	31	19·02	145	18	7·2	2	0·97
75	3 Aurigæ ι	2·7	...	4	48	55·20	57	1	57·1	8	0·06
76	... ...	8·7	5	4	50	49·23	71	8	10·9	5	0·92
77	... ...	9·1	5	4	52	26·81	71	22	44·9	5	0·94
78	2 Leporis ϵ	3·3	...	5	0	12·67	112	32	21·3	7	0·31
79	μ Doradûs, Var. 1 ...	9·6	3	5	5	53·33·25	151	57	57·8	3	0·95
80	19 Orionis β (*Rigel*) ...	0·3	...	5	8	34·73	98	20	47·5	2	0·04
81	24 Orionis γ	1·9	...	5	18	28·69	83	45	51·4	3	0·98
82	R. P. L. 40	6·0	...	5	22	27·51	4	52	21·6	5	0·09
83	S Orionis, Var. 4... ...	9·9	10	5	22	53·28	94	47	38·9	10	0·03
84	9 Leporis β	3·0	...	5	22	55·83·4	110	51	35·9	2	0·97
85	34 Orionis δ, Var. 1 ...	Var.	...	5	25	40·32	90	23	32·7	1	0·94
86	ϵ Columbæ	4·3	1	5	26	48·50	125	33	44·8	1	0·97
87	11 Leporis α	2·7	...	5	27	15·67	107	54	44·9	2	0·52
88	44 Orionis ι—1st	3·0	...	5	29	21·76	95	59	36·1	1	0·99
89	46 Orionis ϵ	1·8	...	5	29	55·20	91	16	58·7	4	0·05
90	48 Orionis σ—1st ...	3·7	...	5	32	31·16	92	40	25·6	1	0·96
91	R. P. L. 42	7·9	...	5	32	58·13	2	41	11·4	6	0·59
92	α Columbæ	2·7	...	5	35	9·63	124	8	28·7	3	0·10
93	53 Orionis κ	2·2	...	5	41	52·40	99	42	55·4	1	0·99
94	β Columbæ	3·2	2	5	46	35·18	125	48	58·9	2	0·97
95	58 Orionis α (*Betelgeux*) ...	0·9	...	5	48	27·53	82	37	3·2	4	0·11
96	34 Aurigæ β	2·1	...	5	50	25·63	46	4	4·2	1	0·99
97	R. P. L. 43	6·6	...	5	57	21·37	3	14	15·9	1	0·46
98	67 Orionis ν	4·4	...	6	0	29·54	75	13	6·2	2	0·13
99	T Monocerotis, Var. 3 ...	6·6	10	6	18	31·03	82	50	54·8	10	0·03
100	24 Geminorum γ ...	2·0	...	6	30	32·88	73	29	49·0	1	0·18
101	51 Cephei (*Hev.*)	5·3	...	6	41	46·05	2	45	58·5	2	0·15
102	23 Canis Majoris γ ...	4·1	...	6	58	8·90	105	27	5·4	1	0·14
103	66 Geminorum α^2 (*Castor*)	2·0	...	7	26	41·21	57	50	30·0	2	0·18
104	R. P. L. 45	7·2	...	7	30	12·92	1	0	32·5	1	0·64
105	10 Canis Min. α (*Procyon*).	0·5	...	7	32	48·52	84	27	29·7	3	0·18

76—77.—Comparison stars for Isis in 1876.
82.—Groombridge 944.
97.—Groombridge 1004.
104.—Groombridge 1359.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	*″*	*″*	*″*	
71	43 Eridani v^6 ...	+ 2·2465	+ 0·0033	+ 0·005	− 8·525	+ 0·300	− 0·03	Stone
72	74 Tauri ϵ	+ 3·4883	+ 0·0120	+ 0·007	− 8·366	+ 0·466	+ 0·03	609
73	87 Tauri α	+ 3·4316	+ 0·0105	+ 0·004	− 7·771	+ 0·464	+ 0·18	630
74	α Doradûs	+ 1·2841	+ 0·0099	+ 0·011	− 7·568	+ 0·176	+ 0·04	Stone
75	3 Aurigæ ι	+ 3·8979	+ 0·0144	+ 0·001	− 6·121	+ 0·544	+ 0·00	677
76	... ...	+ 3·5083	+ 0·0093	...	− 5·962	+ 0·491	...	...
77	... ...	+ 3·5033	+ 0·0090	...	− 5·826	+ 0·492	...	...
78	2 Leporis ϵ	+ 2·5361	+ 0·0033	+ 0·000	− 5·172	+ 0·359	+ 0·07	713
79	μ Doradûs, Var. 1 ...	+ 0·6310	+ 0·0136	...	− 4·691	+ 0·091	...	...
80	19 Orionis β (*Rigel*)...	+ 2·8809	+ 0·0040	− 0·001	− 4·462	+ 0·412	− 0·01	736
81	24 Orionis γ... ...	+ 3·2158	+ 0·0048	− 0·002	− 3·613	+ 0·463	+ 0·02	761
82	R. P. L. 40	+ 18·5456	+ 0·6301	...	− 3·270	+ 2·670	...	...
83	S Orionis, Var. 4 ...	+ 2·9605	+ 0·0036	...	− 3·233	+ 0·427	...	...
84	9 Leporis β	+ 2·5694	+ 0·0030	− 0·002	− 3·230	+ 0·371	+ 0·08	781
85	34 Orionis δ, Var. 1...	+ 3·0631	+ 0·0038	− 0·001	− 2·998	+ 0·443	+ 0·01	787
86	ϵ Columbæ	+ 2·1265	+ 0·0030	+ 0·002	− 2·894	+ 0·308	+ 0·07	Stone
87	11 Leporis α... ...	+ 2·6444	+ 0·0029	− 0·001	− 2·855	+ 0·383	− 0·01	796
88	44 Orionis ι—1st ...	+ 2·9331	+ 0·0034	− 0·001	− 2·673	+ 0·425	− 0·01	806
89	46 Orionis ϵ	+ 3·0425	+ 0·0035	− 0·002	− 2·625	+ 0·441	− 0·01	809
90	48 Orionis σ—1st ...	+ 3·0102	+ 0·0033	− 0·002	− 2·404	+ 0·352	− 0·01	814
91	R. P. L. 42	+ 31·3678	+ 1·4460	...	− 2·360	+ 4·548	...	...
92	α Columbæ	+ 2·1709	+ 0·0027	+ 0·005	− 2·170	+ 0·316	+ 0·03	Stone
93	53 Orionis κ	+ 2·8439	+ 0·0027	− 0·002	− 1·584	+ 0·414	− 0·00	844
94	β Columbæ	+ 2·1091	+ 0·0026	+ 0·002	− 1·173	+ 0·308	− 0·39	Stone
95	58 Orionis α, Var. 2...	+ 3·2452	+ 0·0027	+ 0·001	− 1·009	+ 0·473	− 0·02	860
96	34 Aurigæ β... ...	+ 4·4059 (47)	+ 0·0043	− 0·007	− 0·835 (5)	+ 0·642	+ 0·01	859
97	R. P. L. 43	+ 26·7042	+ 0·0916	...	− 0·231	+ 3·894	...	...
98	67 Orionis ν	+ 3·4250	+ 0·0017	− 0·000	+ 0·043	+ 0·500	+ 0·01	887
99	T Monocerotis, Var. 3	+ 3·2394	+ 0·0005	...	+ 0·619	+ 0·470	...	...
100	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·665	+ 0·500	+ 0·04	969
101	51 Cephei (*Hev.*) ...	+ 30·3200	+ 2·1145	− 0·040	+ 3·635	+ 4·347	+ 0·05	Gr.
102	23 Canis Majoris γ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·034	+ 0·381	+ 0·00	1028
103	66 Gem. α^2 (*Castor*)	+ 3·8534	− 0·0133	− 0·015	+ 7·406	+ 0·519	+ 0·08	1087
104	R. P. L. 45	+ 73·1800	− 30·3739	− 0·323	+ 7·691	+ 9·855	− 0·01	Gr.
105	10 Canis Minoris α ...	+ 3·1915	− 0·0041	− 0·047	+ 7·901	+ 0·425	+ 1·03	1106

71—74—86—92—94.—Proper motions from *Stone's Cape Catalogue.*
101.—Proper motions from *Greenwich Catalogue* 1880.
104.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1876, *January* 1*st*.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	78 Geminorum β (*Pollux*).	1·1	...	7	37	43·72	61	40	34·1	2	0·18
107	R. P. L. 49...	6·7	...	7	46	58·87	5	35	26·0	2	0·44
108	6 Cancri	5·0	...	7	55	54·00	61	51	34·2	2	0·20
109	15 Argus *t*...	2.9	...	8	2	15·76	113	56	51·5	2	0·22
110	... ...	9·4	4	8	13	20·62	131	19	24·8	4	0·24
111	33 Cancri η	5·5	...	8	25	32·17	69	8	19·9	1	0·24
112	11 Hydræ ϵ	3·6	...	8	40	12·52	83	7	36·8	3	0·23
113	R. P. L. 60	7·0	...	8	49	7·66	5	19	34·7	8	0·65
114	88 Cancri	6·6	...	9	12	3·47	71	46	11·6	3	0·24
115	30 Hydræ α, Var. 2 ...	Var.	...	9	21	29·54	98	7	18·6	3	0·24
116	R. P. L. 69	7·9	...	9	36	41·27	2	49	59·7	2	0·51
117	17 Leonis ϵ	3·1	...	9	38	48·62	65	39	21·0	3	0·26
118	R. P. L. 70	5·0	...	9	48	26·01	5	29	10·4	6	0·70
119	29 Leonis π	5·0	...	9	53	39·49	81	21	41·5	1	0·29
120	32 Leonis α (*Regulus*) ..	1·4	...	10	1	45·96	77	25	38·4	2	0·24
121	R. P. L. 72	6·0	...	10	11	18·91	5	7	11·5	5	0·35
122	41 Leonis γ^1	2·5	...	10	13	7·99	69	31	54·9	2	0·27
123	47 Leonis ρ	4·0	...	10	26	16·86	80	3	18·7	1	0·30
124	53 Leonis l	5·3	...	10	42	44·30	78	47	54·9	5	0·28
125	63 Leonis χ	4·7	...	10	58	37·21	81	59	37·2	2	0·30
126	68 Leonis δ	2·8	...	11	7	30·67	68	47	48·7	2	0·29
127	12 Crateris δ	3·9	...	11	13	8·52	104	6	27·2	4	0·29
128	91 Leonis ν	4·5	...	11	30	35·96	90	8	20·0	2	0·28
129	... ...	8·5	4	11	33	41·44	144	18	33·8	4	0·24
130	94 Leonis β (*Denebola*) ...	2·2	...	11	42	44·03	74	44	5·4	3	0·30
131	R. P. L. 89	6·3	...	11	58	30·13	3	43	32·6	2	0·60
44·98 132	2 Corvi ϵ	3·1	...	12	3	44·948	111	55	47·0	2	0·32
133	15 Virginis η	4·0	...	12	13	33·71	89	58	37·2	2	0·29
134	... ...	9·7	5	12	15	52·26	90	46	16·7	5	0·30
52·46 135	9 Corvi β...	2·8	...	12	27	52·41$\frac{1}{2}$6	112	42	37·4	1	0·33
136	R. P. L. 98	6·6	...	12	48	6·90	5	54	27·0	1	0·31
14·47 137	R. P. L. 99	5·6	...	12	48	~~16·54~~ 14·47	5	54	45·9	1	0·32
31·81 138	51 Virginis θ	4·4	...	13	3	31·79 81	94	52	33·7	6	0·34
39·78 139	67 Virginis α (*Spica*) ...	1·2	...	13	18	39·71 3	100	30	47·1	1	0·32
41·19 140	R. P. L. 103	7·0	...	13	19	~~42·79~~ 41·19	4	35	52·0	4	0·50

113.—Carrington 1286.
116.—Carrington 1418.
118.—Carrington 1451.
121.—Groombridge 1620.

131.—Groombridge 1850.
134.— Comparison star for Hestia in 1876.
137.—Groombridge 1940.
140.—Groombridge 2007.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
106	78 Gem. β (*Pollux*) ...	+ 3·7283	− 0·0128	− 0·048	+ 8·295	+ 0·491	+ 0·05	1112
107	R. P. L. 49	+ 15·2694	− 1·2366	...	+ 9·025	+ 1·985	...	...
108	6 Cancri	+ 3·6978	− 0·0148	− 0·003	+ 9·715	+ 0·468	+ 0·04	1149
109	15 Argus ι	+ 2·5609	+ 0·0009	− 0·008	+ 10·198	+ 0·318	− 0·06	1170
110	... ...	+ 2·0902	+ 0·0015	...	+ 11·021	+ 0·250	...	...
111	33 Cancri η	+ 3·4824	− 0·0129	− 0·004	+ 11·896	+ 0·404	+ 0·05	1207
112	11 Hydræ ϵ	+ 3·1955	− 0·0071	− 0·014	+ 12·905	+ 0·351	+ 0·02	1243
113	R. P. L. 60	+ 13·6815	− 1·7133	...	+ 13·492	+ 1·470	...	...
114	83 Cancri	+ 3·3668	− 0·0134	− 0·009	+ 14·906	+ 0·323	+ 0·14	1309
115	30 Hydræ α, Var. 2...	+ 2·9505	− 0·0013	− 0·002	+ 15·447	+ 0·268	− 0·05	1330
116	R. P. L. 69	+ 18·8847	− 5·5377	...	+ 16·260	+ 1·612	...	...
117	17 Leonis ϵ	+ 3·4217	− 0·0180	− 0·004	+ 16·368	+ 0·282	+ 0·01	1368
118	R. P. L. 70	+ 10·6315	− 1·5535	...	+ 16·840	+ 0·835	...	...
119	29 Leonis π	+ 3·1786	− 0·0080	− 0·004	+ 17·083	+ 0·236	+ 0·01	1398
120	32 Leonis α (*Regulus*).	+ 3·2193	− 0·0102	− 0·018	+ 17·444	+ 0·225	− 0·02	1406
121	R. P. L. 72	+ 9·8769	+ 1·6166	− 0·096	+ 17·841	+ 0·650	− 0·04	1399
122	41 Leonis γ^1... ...	+ 3·2966	− 0·0148	+ 0·021	+ 17·913	+ 0·208	+ 0·14	1432
123	47 Leonis ρ	+ 3·1654	− 0·0080	− 0·001	+ 18·401	+ 0·176	− 0·01	1467
124	53 Leonis l	+ 3·1598	− 0·0080	− 0·002	+ 18·925	+ 0·145	+ 0·02	1500
125	63 Leonis χ	+ 3·1219	− 0·0056	− 0·026	+ 19·339	+ 0·113	+ 0·02	1535
126	68 Leonis δ	+ 3·1900	− 0·0132	+ 0·010	+ 19·531	+ 0·098	+ 0·12	1546
127	12 Crateris δ... ...	+ 3·0040	+ 0·0064	− 0·011	+ 19·637	+ 0·081	− 0·21	1557
128	91 Leonis ν	+ 3·0718	+ 0·0003	− 0·002	+ 19·899	+ 0·049	− 0·05	1586
129	... ...	+ 2·8591	+ 0·0360	...	+ 19·922	+ 0·039	...	...
130	94 Leonis β (*Denebola*)...	+ 3·0997	− 0·0074	− 0·036	+ 19·997	+ 0·025	+ 0·10	1605
131	R. P. L. 89	+ 3·2063	− 0·4970	...	+ 20·054	− 0·006	...	...
132	2 Corvi ϵ	+ 3·0810	+ 0·0142	− 0·006	+ 20·052	− 0·016	− 0·02	1626
133	15 Virginis η... ...	+ 3·0722	+ 0·0027	− 0·006	+ 20·019	− 0·035	+ 0·02	1647
134	... ...	+ 3·0735	+ 0·0032	...	+ 20·006	− 0·039	...	...
135	9 Corvi β	+ 3·1401	+ 0·0164	− 0·003	+ 19·906	− 0·064	+ 0·05	1685
136	R. P. L. 98	+ 0·3794	+ 0·2183	− 0·017	+ 19·614	− 0·020	− 0·02	1730
137	R. P. L. 99	+ 0·3730	+ 0·2193	− 0·020	+ 19·611	− 0·019	− 0·02	1731
138	51 Virginis θ ...	+ 3·1035	+ 0·0078	− 0·004	+ 19·289	− 0·132	+ 0·04	1747
139	67 Virginis α (*Spica*).	+ 3·1557	+ 0·0116	− 0·004	+ 18·884	− 0·163	+ 0·02	1747
140	R. P. L. 103	− 2·5941	+ 0·9474	...	+ 18·854	+ 0·121	...	...

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
141	79 Virginis ζ	3·5	...	13	28	22·55	89	57	38·7	4	0·34
142	8 Bootis η	2·9	...	13	48	46·85	70	58	45·8	5	0·35
143	93 Virginis τ	4·3	...	13	55	20·21	87	51	14·6	7	0·35
144	R. P. L. 108	7·8	...	14	2	23·49	3	38	53·0	3	0·35
145	16 Bootis α (*Arcturus*) ...	0·0	...	14	10	0·33	70	10	15·8	5	0·37
146	25 Bootis ρ	3·6	...	14	26	29·16	59	4	59·7	2	0·42
147	R Camelopardi, Var. 1 ...	9·3	5	14	27	7·49	5	36	22·9	6	0·34
148	36 Bootis ε (*Mirac*) ...	2·6	...	14	39	34·20	62	24	6·3	2	0·39
149	9 Libræ a^2	3·0	...	14	44	1·25	105	31	30·4	8	0·41
150	W. B. E. XIV. 896 ...	8·9	4	14	49	0·02	102	42	5·0	5	0·33
151	... ...	9·3	5	14	55	48·23	104	0	58·8	5	0·33
152	43 Bootis ψ	4·5	...	14	59	7·94	62	34	3·5	2	0·41
153	R. P. L. 111	7·1	...	15	4	21·20	5	34	12·2	6	0·45
154	27 Libræ β	2·7	...	15	10	20·14	98	55	25·0	4	0·40
155	R. P. L. 114	6·9	...	15	17	55·25	2	17	35·9	6	0·33
156	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	26·33	62	51	59·9	4	0·42
157	24 Serpentis α	2·7	...	15	38	9·61	83	10	57·7	3	0·46
158	R Serpentis, Var. 2 ...	8·3	5	15	44	58·54	74	29	18·3	5	0·37
159	R. P. L. 115	7·0	...	15	46	35·66	4	46	6·3	4	0·49
160	8 Scorpii β^1	3·0	...	15	58	13·70	109	27	51·5	1	0·49
161	R. P. L. 116	6·9	...	16	2	14·47	4	20	42·9	4	0·50
162	1 Ophiuchi δ	2·8	...	16	7	50·84	93	22	25·1	4	0·49
163	21 Scorpii α (*Antares*) ...	1·1	...	16	21	48·41	116	9	18·0	3	0·48
164	40 Herculis ζ	3·1	...	16	36	36·72	58	10	17·0	6	0·52
165	... ...	7·2	3	16	42	29·86	138	53	54·7	3	0·40
166	27 Ophiuchi κ	3·4	...	16	51	47·94	80	25	49·2	3	0·48
167	T Serpentis, Var. 4 ...	10·6	10	16	54	40·92	110	19	45·5	10	0·59
168	22 Ursæ Minoris ε	4·5	...	16	58	45·11	7	45	43·2	1	0·10
169	R Ophiuchi, Var. 2 ...	8·5	3	17	0	38·83	105	55	32·0	4	0·53
170	... ...	8·8	2	17	7	4·55	137	25	57·3	2	0·45
171	64 Herculis α, Var. 1 ...	Var.	...	17	8	59·64	75	27	58·9	9	0·58
172	42 Ophiuchi θ	3·4	...	17	14	23·72	114	52	24·8	4	0·58
173	55 Ophiuchi α	2·2	...	17	29	10·71	77	20	51·9	8	0·56
174	86 Herculis μ	3·5	...	17	41	36·30	62	12	18·8	7	0·59
175	13 Sagittarii μ^1	4·1	...	18	6	20·82	111	5	20·1	3	0·59

144.—Groombridge 2099.
150—151.—Comparison stars for Asia in 1876.
153.—Groombridge 2213.
155.—Groombridge 2283.
159.—Carrington 2380.
161.—Carrington 2423.
165.—Comparison star for comet in 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
141	79 Virginis ζ ...	+ 3·0719	+ 0·0064	− 0·021	+ 18·582	− 0·176	− 0·06	1789
142	8 Bootis η ...	+ 2·8616	− 0·0006	− 0·005	+ 17·837	− 0·199	+ 0·34	1821
143	93 Virginis τ ...	+ 3·0481	+ 0·0064	− 0·001	+ 17·568	− 0·222	+ 0·03	1829
144	R. P. L. 108 ...	+ 7·6012	+ 2·4111	...	+ 17·262	+ 0·557	...	...
145	16 Bootis α (*Arcturus*)..	+ 2·8131	+ 0·0004	− 0·080	+ 16·913	− 0·227	+ 1·98	1847
146	25 Bootis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·096	− 0·233	− 0·13	1869
147	R Camelopardi, Var. 1	− 5·0828	+ 1·0618	...	+ 16·062	+ 0·437	...	...
148	36 Bootis ϵ (*Mirac*) ...	+ 2·6240	− 0·0001	− 0·004	+ 15·386	− 0·252	− 0·00	1890
149	9 Librae α^2 ...	+ 3·3159	+ 0·0154	− 0·009	+ 15·134	− 0·324	+ 0·07	1894
150	W. B. E. XIV. 896 ..	+ 3·3748	+ 0·0141	...	+ 14·844	− 0·336	...	...
151	... ...	+ 3·3036	+ 0·0145	...	+ 14·438	− 0·340	...	...
152	43 Bootis ψ ...	+ 2·5834	+ 0·0010	− 0·015	+ 14·234	− 0·271	+ 0·01	1922
153	R. P. L. 111 ...	− 6·8051	+ 1·1664	...	+ 13·909	+ 0·709	...	...
154	27 Librae β ...	+ 3·2272	+ 0·0117	− 0·008	+ 13·526	− 0·353	+ 0·02	1934
155	R. P. L. 114 ...	− 22·3060	+ 7·5404	...	+ 13·030	+ 2·467	...	...
156	5 Coronae Borealis α...	+ 2·5297	+ 0·0023	+ 0·009	+ 12·247	− 0·297	+ 0·09	1973
157	24 Serpentis α ...	+ 2·9421	+ 0·0062	+ 0·008	+ 11·634	− 0·354	− 0·06	1990
158	R Serpentis, Var. 2...	+ 2·7639	+ 0·0043	...	+ 11·143	− 0·340	...	...
159	R. P. L. 115	− 10·3159	+ 1·5329	...	+ 11·026	+ 1·252	...	...
160	8 Scorpii β^1 ...	+ 3·4795	+ 0·0142	− 0·003	+ 10·161	− 0·441	+ 0·03	2034
161	R. P. L. 116 ...	− 12·2499	+ 1·7478	...	+ 9·857	+ 1·551	...	...
162	1 Ophiuchi δ ...	+ 3·1418	+ 0·0081	− 0·005	+ 9·427	− 0·408	+ 0·14	2065
163	21 Scorpii α (*Antares*)	+ 3·6695	+ 0·0150	− 0·002	+ 8·332	− 0·491	+ 0·03	2091
164	40 Herculis ζ ...	+ 2·2967	+ 0·0033	− 0·036	+ 7·137	− 0·316	− 0·41	2127
165	... ...	+ 4·5179	+ 0·0275	...	+ 6·653	− 0·624	...	...
166	27 Ophiuchi κ ...	+ 2·8567	+ 0·0044	− 0·021	+ 5·880	− 0·402	− 0·02	2156
167	T Serpentis, Var. 4...	+ 3·5475	+ 0·0093	...	+ 5·638	− 0·498	...	...
168	22 Ursae Minoris ϵ ...	− 6·3880	+ 0·3078	+ 0·009	+ 5·296	+ 0·897	+ 0·00	2201
169	R Ophiuchi, Var. 2...	+ 3·4410	+ 0·0077	...	+ 5·135	− 0·487	...	...
170	... ...	+ 4·4892	+ 0·0187	...	+ 4·590	− 0·638	...	...
171	64 Herculis α, Var. 1.	+ 2·7342	+ 0·0035	− 0·002	+ 4·426	− 0·391	− 0·03	2183
172	42 Ophiuchi θ ...	+ 3·6798	+ 0·0080	− 0·002	+ 3·965	− 0·528	+ 0·04	2189
173	55 Ophiuchi α ...	+ 2·7748	+ 0·0030	+ 0·007	+ 2·689	− 0·402	+ 0·22	2218
174	86 Herculis μ ...	+ 2·3697	+ 0·0025	− 0·024	+ 1·608	− 0·346	+ 0·75	2237
175	13 Sagittarii μ^1 ...	+ 3·5876	+ 0·0009	− 0·001	− 0·555	− 0·523	− 0·00	2284

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
176	... ...	8·4	3	18	6	52·00	122	25	1·1	4	0·59
177	... ...	9·6	3	18	8	52·62	122	24	32·1	4	0·54
178	23 Ursæ Minoris δ ...	4·5	...	18	12	19·60	3	23	31·3	6	0·43
179	24 Ursæ Minoris	6·1	...	18	16	40·21	3	0	46·9	3	0·58
180	... ...	10·5	2	18	30	10·70	136	55	3·7	2	0·58
181	3 Lyræ α (*Vega*)	0·2	...	18	32	44·32	51	19	49·9	2	0·62
182	10 Lyræ β, Var. 1 ...	Var.	...	18	45	30·11·09	56	46	48·4	2	0·63
183	R. P. L. 131	6·5	...	18	55	11·74	3	27	0·8	5	0·40
184	17 Aquilæ ζ	3·1	...	18	59	42·55	76	19	9·6	7	0·61
185	25 Aquilæ ω	5·1	...	19	11	59·74	78	37	34·8	3	0·63
186	30 Aquilæ δ	3·5	...	19	19	14·65	87	7	50·2	3	0·65
187	52 Sagittarii h^3	4·6	...	19	29	9·51	115	9	18·0	4	0·64
188	50 Aquilæ γ	2·8	...	19	40	21·87	79	41	13·0	2	0·71
189	11 Vulpeculæ, Var. 1 ...	10·7	7	19	42	35·50	62	59	10·3	9	0·63
190	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	44·01	81	27	26·4	1	0·73
191	60 Aquilæ β	4·0	...	19	49	13·40	83	54	3·3	2	0·70
192	6 Capricorni a^3	3·8	...	20	11	10·37	102	55	39·6	5	0·71
193	X Capricorni, Var. 7 ...	10·7	8	20	15	39·01	106	24	17·2	8	0·73
194	U Cygni, Var. 6	8·3	5	20	15	45·99	42	29	46·8	5	0·80
195	... ...	10·5	1	20	16	41·05	106	30	48·1	1	0·58
196	11 Capricorni ρ	5·0	...	20	21	47·10	108	13	19·2	5	0·69
197	R. P. L. 143	6·7	...	20	28	0·30	5	16	2·6	9	0·64
198	50 Cygni α (*Deneb*) ...	1·5	...	20	37	12·37	45	9	43·0	3	0·78
199	32 Vulpeculæ	5·1	...	20	49	16·49	62	24	47·6	8	0·75
200	64 Cygni ζ	3·5	...	21	7	39·58	60	16	51·4	8	0·78
201	... ...	10·6	4	21	8	57·13	110	47	7·3	4	0·77
202	22 Aquarii β	3·1	...	21	25	1·71	96	6	56·6	15	0·78
203	8 Pegasi ε	2·4	...	21	38	5·69	80	41	33·5	12	0·78
204	16 Pegasi	5·0	...	21	47	25·19	64	39	28·3	3	0·76
205	34 Aquarii α	3·2	...	21	59	24·81	90	55	17·3	6	0·77
206	43 Aquarii θ	4·3	...	22	10	17·36	98	23	58·6	4	0·80
207	R. P. L. 150	5·5	...	22	22	53·66	4	31	2·9	9	0·56
208	R. P. L. 151	6·9	...	22	23	19·42	4	24	10·3	5	0·46
209	62 Aquarii η	4·2	...	22	28	58·98	90	45	21·9	2	0·76
210	... ...	7·4	2	22	46	27·74	130	4	43·4	2	0·74

178.—R. P. L. 125.
179.—R. P. L. 128.
183.—Carrington 2882.
195.—Comparison star for Hestia in 1865.
197.—Carrington 3128.
207.—Groombridge 3820.
208.—Groombridge 3824.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	... ...	+ 3·9209	+ 0·0003	...	− 0·601	− 0·572	...	...
177	... ...	+ 3·9203	− 0·0001	...	− 0·776	− 0·571	...	...
178	23 Ursæ Minoris δ ...	− 19·4515	− 0·3594	+ 0·026	− 1·078	+ 2·833	− 0·04	2395
179	24 Ursæ Minoris ...	− 22·2596	− 0·6432	+ 0·067	− 1·457	+ 3·240	+ 0·02	2417
180	... ...	+ 4·4893	− 0·0084	...	− 2·633	− 0·648	...	...
181	3 Lyræ α (*Vega*) ...	+ 2·0132	+ 0·0016	+ 0·017	− 2·855	− 0·290	− 0·30	2341
182	10 Lyræ β, Var. 1 ...	+ 2·2139	+ 0·0015	− 0·001	− 3·955	− 0·315	− 0·02	2369
183	R. P. L. 131	− 18·4621	− 1·5300	...	− 4·783	+ 2·617	...	...
184	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·166	− 0·387	+ 0·09	2405
185	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·197	− 0·388	− 0·03	2432
186	30 Aquilæ δ	+ 3·0092	− 0·0018	+ 0·015	− 6·797	− 0·410	− 0·09	2451
187	52 Sagittarii h^2 ...	+ 3·6531	− 0·0102	+ 0·002	− 7·607	− 0·490	+ 0·01	2478
188	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·504	− 0·373	− 0·01	2511
189	11 Vulpeculæ, Var. 1.	+ 2·4576	+ 0·0011	...	− 8·680	− 0·319	...	...
190	53 Aquilæ α (*Altair*)..	+ 2·8920	− 0·0014	+ 0·035	− 8·849	− 0·374	− 0·38	2524
191	60 Aquilæ β	+ 2·9453	− 0·0020	+ 0·001	− 9·200	− 0·378	+ 0·47	2538
192	6 Capricorni a^2 ...	+ 3·3302	− 0·0084	+ 0·002	− 10·862	− 0·403	− 0·02	2595
193	X Capricorni, Var. 7..	+ 3·3990	− 0·0101	...	− 11·189	− 0·407	...	...
194	U Cygni, Var. 6 ...	+ 1·8615	+ 0·0002	...	− 11·197	− 0·220	...	...
195	... ...	+ 3·4000	− 0·0103	...	− 11·264	− 0·405	...	...
196	11 Capricorni ρ ...	+ 3·4308	− 0·0115	− 0·003	− 11·630	− 0·403	+ 0·01	2626
197	R. P. L. 143	− 8·5092	∓ 1·2745	...	− 12·069	+ 0·996	...	...
198	50 Cygni α (*Deneb*) ...	+ 2·0435	+ 0·0021	− 0·000	− 12·702	− 0·226	− 0·00	2679
199	32 Vulpeculæ ...	+ 2·5557	+ 0·0026	− 0·002	− 13·502	− 0·270	+ 0·00	2709
200	64 Cygni ζ	+ 2·5509	+ 0·0038	− 0·002	− 14·646	− 0·248	+ 0·07	2760
201	... ...	+ 3·4167	− 0·0149	...	− 14·724	− 0·333	...	...
202	22 Aquarii β... ...	+ 3·1618	− 0·0071	− 0·001	− 15·642	− 0·282	+ 0·00	2797
203	8 Pegasi ε	+ 2·9451	− 0·0005	+ 0·001	− 16·331	− 0·242	− 0·01	2835
204	16 Pegasi	+ 2·7261	+ 0·0052	− 0·001	− 16·791	− 0·210	+ 0·00	2864
205	34 Aquarii α	+ 3·0831	− 0·0041	− 0·001	− 17·342	− 0·219	− 0·00	2890
206	43 Aquarii θ... ...	+ 3·1631	− 0·0075	+ 0·006	− 17·800	− 0·205	+ 0·02	2929
207	R. P. L. 150	− 3·8848	− 1·2163	+ 0·052	− 18·281	+ 0·241	− 0·04	2993
208	R. P. L. 151	− 4·0373	− 1·2843	+ 0·025	− 18·297	+ 0·249	− 0·01	2997
209	62 Aquarii η... ...	+ 3·0791	− 0·0031	+ 0·006	− 18·494	− 0·166	+ 0·11	2979
210	... ...	+ 3·4268	− 0·0317	...	− 19·031	− 0·150	...	...

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	... ...	9·5	4	22	48	9·24	128	54	·0	4	0·74
212	54 Pegasi α (*Markab*) ...	2·6	...	22	58	35·04	75	27	41·3	1	0·78
213	6 Piscium γ	3·8	...	23	10	44·20	87	23	41·9	1	0·83
214	8 Piscium κ	5·0	...	23	20	34·46	89	25	24·6	1	0·83
215	R. P. L. 158	5·7	...	23	27	49·68	3	22	37·8	2	0·31
216	17 Piscium ι	4·3	...	23	33	34·31	85	2	45·1	2	0·87
217	δ Sculptoris	4·6	...	23	42	27·80	118	48	58·2	1	0·90
218	2 Ceti	4·6	...	23	57	23·07	108	1	35·5	3	0·95

215.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	... ...	+ 3·4049	− 0·0300	...	− 19·077	− 0·146	...	...
212	54 Pegasi α (*Markab*).	+ 2·9805	+ 0·0056	+ 0·003	− 19·338	− 0·107	+ 0·03	3050
213	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·593	− 0·087	− 0·02	3082
214	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·759	− 0·069	+ 0·10	3116
215	R. P. L. 158	− 0·0977	− 0·5315	+ 0·084	− 19·857	+ 0·011	− 0·00	3147
216	17 Piscium ι	+ 3·0588	+ 0·0030	+ 0·023	− 19·921	− 0·042	+ 0·44	3148
217	δ Sculptoris	+ 3·1284	− 0·0161	+ 0·009	− 19·995	− 0·026	+ 0·10	Stone
218	2 Ceti...	+ 3·0771	− 0·0080	− 0·000	− 20·053	+ 0·004	− 0·01	3204

217.—Proper motions from *Stone's Cape Catalogue*.