
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1866

REDUCED TO JANUARY 1, OF THAT YEAR.

Mean Positions of Stars for 1866 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	Taylor 11010	8.0	1	0	0	34.89	147	34	58.6	1	0.86
2	21 Androm. α (<i>Alpherat</i>)..	2.0	...	0	1	27.91	61	38	59.0	8	0.81
3	Lacaille 9739	8.0	1	0	2	10.16	130	28	59.1	1	0.84
4	Lacaille 9757	8.0	1	0	4	31.16	131	7	7.8	1	0.85
5	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	6	20.22	75	33	41.5	7	0.85
6	... ..	9.2	1	0	6	44.46	131	6	22.3	1	0.85
7	Lalande 163	7.7	3	0	7	44.52	89	26	54.3	3	0.77
8	... ..	9.0	1	0	9	28.63	149	31	11.3	1	0.84
9	... ..	9.9	1	0	9	39.06	153	54	27.9	1	0.85
10	... ..	9.6	2	0	10	40.63	152	0	12.7	2	0.85
11	Lacaille 41	8.1	2	0	12	39.69	130	51	23.4	2	0.78
12	Lalande 421	7.5	1	0	15	51.62	51	59	21.9	1	0.83
13	Lacaille 61	7.3	2	0	16	7.57	130	0	19.1	2	0.84
14	... ..	9.2	2	0	18	36.90	152	56	57.9	2	0.83
15	Lacaille 81	7.1	1	0	18	44.20	130	0	2.3	1	0.85
16	10 Ceti	6.7	...	0	19	44.97	90	47	32.7	2	0.65
17	12 Ceti	6.2	...	0	23	11.99	94	41	53.1	7	0.85
18	Lacaille 132	8.4	4	0	27	24.03	151	53	16.1	4	0.81
19	... ..	8.5	2	0	31	32.36	82	27	41.4	2	0.80
20	Lalande 1010	9.5	2	0	32	21.68	82	31	46.7	2	0.84
21	18 Cassiopeæ α Var. 2 ...	2.2	...	0	32	55.17	34	11	53.3	2	0.85
22	16 Ceti β	2.1	...	0	36	51.63	108	43	21.9	5	0.87
23	W. B. E. 0.628	9.3	1	0	37	0.17	98	43	46.3	1	0.89
24	... ..	9.5	1	0	39	59.45	150	44	13.0	1	0.90
25	W. B. E. 0.697	9.2	3	0	40	49.69	95	13	51.5	3	0.79
26	W. B. E. 0.705	9.0	2	0	41	14.32	94	26	39.8	2	0.84
27	63 Piscium δ	4.6	...	0	41	43.97	83	8	40.8	3	0.78
28	W. B. E. 0.716... ..	9.5	1	0	41	47.59	94	36	7.8	1	0.90
29	20 Ceti	5.0	...	0	46	9.58	91	52	22.2	1	0.65
30	... ..	9.9	2	0	47	40.99	153	39	38.8	3	0.85
31	λ^1 Toucani	6.5	1	0	48	2.62	153	36	0.1	1	0.84
32	... ..	9.6	2	0	49	0.34	153	49	9.0	2	0.88
33	... ..	9.0	1	0	49	0.60	133	46	35.8	1	0.85
34	Lacaille 264	7.9	...	0	50	49.06	154	41	26.0	1	0.90
35	R. P. L. 12	4.5	...	0	50	58.08	4	27	48.1	2	0.34

7.—Star occulted by the moon, when totally eclipsed, on 1866 Sep. 24.

20.—Comparison star for Ariadne in 1861.

21.— α Cassiopeæ Var. 2 (*Shedir*). Changes irregularly between 2.2 and 2.3 magnitude.

23.—25.—26.—28.—Comparison stars for Europa in 1861.

35.—2 Ursæ Minoris.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in B. A. C.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	Taylor 11010 ...	+ 3.0668	- 0.0452	...	- 20.055	+ 0.010	...	...
2	21 Androm. α (Alpherat)	+ 3.0767	+ 0.0182	+ 0.009	- 20.055	+ 0.013	+ 0.15	4
3	Lacaille 9730 ...	+ 3.0613	- 0.0233	...	- 20.054	+ 0.013	...	...
4	Lacaille 9757 ...	+ 3.0491	- 0.0236	...	- 20.051	+ 0.018	...	22
5	88 Pegasi γ (Algenib).	+ 3.0815	+ 0.0100	0.000	- 20.048	+ 0.022	+ 0.02	26
6	... ..	- 3.0378	- 0.0232	...	- 20.046	+ 0.022	...	..
7	Lalande 163 ...	+ 3.0724	+ 0.0026	...	- 20.044	+ 0.024	...	...
8	... ..	+ 2.9781	- 0.0452	...	- 20.038	+ 0.027	...	...
9	... ..	+ 2.9572	- 0.0540	...	- 20.036	+ 0.027	...	...
10	... ..	+ 2.9550	- 0.0493	...	- 20.034	+ 0.029	...	...
11	Lacaille 41 ...	+ 3.0083	- 0.0221	...	- 20.024	+ 0.033	...	...
12	Lalande 421 ...	+ 3.1445	+ 0.0271	...	- 20.007	+ 0.041	...	...
13	Lacaille 61 ...	+ 2.9932	- 0.0209	...	- 20.006	+ 0.040	...	...
14	... ..	+ 2.8597	- 0.0472	...	- 19.988	+ 0.043	...	...
15	Lacaille 81 ...	+ 2.9805	- 0.0205	...	- 19.989	+ 0.044	...	...
16	10 Ceti ...	+ 3.0705	+ 0.0026	+ 0.005	- 19.981	+ 0.047	+ 0.03	95
17	12 Ceti ..	+ 3.0609	+ 0.0008	- 0.002	- 19.953	+ 0.055	+ 0.01	112
18	Lacaille 132 ...	+ 2.7737	- 0.0413	...	- 19.912	+ 0.057	...	...
19	... ..	+ 3.0964	+ 0.0076	...	- 19.865	+ 0.071	...	...
20	Lalande 1010 ...	+ 3.0969	+ 0.0076	...	- 19.855	+ 0.072	...	...
21	18 Cassiopeiæ α Var. 2	+ 3.3536	+ 0.0553	+ 0.006	- 19.848	+ 0.080	+ 0.04	169
22	16 Ceti β ...	+ 2.9995	- 0.0655	+ 0.013	- 19.796	+ 0.080	- 0.02	196
23	W. B. E. 0.628 ...	+ 3.0578	+ 0.0020	...	- 19.794	+ 0.080	...	...
24	... ..	+ 2.6579	- 0.0340	...	- 19.750	+ 0.075	...	...
25	W. B. E. 0.697 ...	+ 3.0503	+ 0.0015	...	- 19.738	+ 0.087	...	...
26	W. B. E. 0.705 ...	+ 3.0534	+ 0.0019	...	- 19.732	+ 0.087	...	...
27	63 Piscium δ ...	+ 3.1012	+ 0.0077	+ 0.003	- 19.723	+ 0.090	+ 0.05	222
28	W. B. E. 0.716 ...	+ 3.0526	+ 0.0018	...	- 19.722	+ 0.088	...	...
29	20 Ceti ...	+ 3.0632	+ 0.0034	- 0.004	- 19.650	+ 0.097	+ 0.01	242
30	... ..	+ 2.5143	- 0.0328	...	- 19.622	+ 0.084	...	...
31	λ^1 Toucani ...	+ 2.5116	- 0.0327	...	- 19.615	+ 0.084	...	251
32	... ..	+ 2.4651	- 0.0323	...	- 19.598	+ 0.085	...	...
33	... ..	+ 2.8002	- 0.0183	...	- 19.598	+ 0.095	...	...
34	Lacaille 264 ...	+ 2.4502	- 0.0318	...	- 19.564	+ 0.087	...	...
35	R. P. L. 12 ...	+ 6.8496	+ 1.2942	+ 0.065	- 19.561	+ 0.228	+ 0.01	262

17.—Proper motions from "Greenwich Catalogue 1872."