
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1865

REDUCED TO JANUARY 1, OF THAT YEAR.

Mean Positions of Stars for 1865 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>		
1	Taylor 11011	7.9	1	0	0	31.84	147	35	17.4	1	0.82
2	... ..	9.0	4	0	0	45.00	151	23	33.9	4	0.85
3	21 Androm. α (<i>Alpherat</i>) ...	2.0	...	0	1	24.84	61	39	18.6	4	0.84
4	Lacaille 9739	7.6	1	0	2	7.30	130	29	19.0	1	0.78
5	Taylor 7	7.1	1	0	3	0.31	93	18	45.0	1	0.86
6	Lacaille 9757	7.3	3	0	4	28.20	131	7	27.6	3	0.77
7	Lacaille 8	6.7	1	0	6	9.36	148	39	55.7	1	0.86
8	... ..	9.1	2	0	6	14.27	131	7	58.4	2	0.74
9	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	6	17.16	75	34	2.3	7	0.82
10	... ..	9.3	3	0	6	41.54	131	6	42.3	3	0.76
11	... ..	8.9	...	0	9	25.84	149	31	30.3	1	0.79
12	... ..	9.1	2	0	9	36.23	153	54	49.0	2	0.78
13	... ..	8.6	3	0	10	37.71	152	0	33.7	3	0.84
14	Lacaille 41	8.0	1	0	12	36.74	130	51	42.8	1	0.87
15	41 Piscium d	5.6	...	0	13	39.14	82	33	35.3	3	0.81
16	Lacaille 61	7.0	1	0	16	5.23	130	0	38.5	1	0.86
17	R Andromedæ Var. 1	6.7	3	0	16	54.58	52	10	15.8	3	0.91
18	... ..	9.5	1	0	17	40.60	149	34	51.7	1	0.82
19	... ..	9.1	2	0	18	33.95	152	57	18.5	2	0.87
20	Lacaille 81	7.3	3	0	18	41.31	130	0	20.1	4	0.81
21	10 Ceti	6.7	...	0	19	42.00	90	47	53.7	1	0.91
22	12 Ceti	5.4	...	0	23	3.95	94	42	14.1	11	0.85
23	... ..	7.7	2	0	27	10.97	76	13	43.1	2	0.81
24	Lacaille 132	9.0	...	0	27	21.46	151	53	37.1	1	0.79
25	Lalande 970	7.9	4	0	31	7.33	80	54	49.0	4	0.81
26	... ..	8.2	3	0	31	29.36	82	28	2.2	3	0.89
27	Lalande 1010	9.0	1	0	32	18.53	82	32	6.9	1	0.81
28	18 Cassiopeæ α Var. 2	2.2	...	0	32	51.73	34	12	14.6	2	0.86
29	... ..	9.3	1	0	35	1.75	83	28	34.8	1	0.81
30	16 Ceti β	2.1	...	0	36	48.65	108	43	42.0	7	0.87
31	W. B. E. 0. 628	9.3	...	0	36	57.06	93	49	9.6	1	0.79
32	W. B. E. 0. 705	7.9	1	0	41	11.31	94	26	57.2	1	0.93
33	Taylor 235	5.7	1	0	41	18.18	85	24	52.3	1	0.86
34	63 Piscium δ	4.6	≡	0	41	40.34	83	9	1.1	2	0.75
35	W. B. E. 0. 716	9.2	2	0	41	44.56	94	36	30.0	2	0.84

17.—R Andromedæ Var. 1.—Period 405 days.—Range, 6th to 13th magnitude.

25.—27.—Comparison stars for Ariadne in 1861.

28.—18 Cassiopeæ α Var. 2 (*Shedir*).—Irregular, Range, 2.2 to 2.8 magnitude.

31.—32.—35.—Comparison stars for Europa in 1861.

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... ..	+ 3.0672	- 0.0452	...	- 20.055	+ 0.010	...	8877
2	... ..	+ 3.0641	- 0.0526	...	- 20.055	+ 0.010	...	...
3	21 Andromedæ α ...	+ 3.0765	+ 0.0182	+ 0.009	- 20.055	+ 0.013	+ 0.15	4
4	Lacaille 9739 ...	+ 3.0615	- 0.0233	...	- 20.054	+ 0.013	...	...
5	Taylor 7	+ 3.0711	+ 0.0004	...	- 20.053	+ 0.015	...	12
6	Lacaille 9757 ...	+ 3.0493	- 0.0236	...	- 20.051	+ 0.018	...	22
7	Lacaille 3	+ 3.0131	- 0.0449	...	- 20.048	+ 0.021	...	...
8	... ..	+ 3.0403	- 0.0233	...	- 20.048	+ 0.021	...	...
9	88 Pegasi γ (<i>Algenib</i>)	+ 3.0814	+ 0.0100	0.000	- 20.048	+ 0.022	+ 0.02	26
10	... ..	+ 3.0380	- 0.0232	...	- 20.046	+ 0.022	...	...
11	... ..	+ 2.9786	- 0.0452	...	- 20.038	+ 0.027	...	...
12	... ..	+ 2.9578	- 0.0540	...	- 20.037	+ 0.027	...	...
13	... ..	+ 2.9555	- 0.0493	...	- 20.034	+ 0.029	...	...
14	Lacaille 41	+ 3.0085	- 0.0221	...	- 20.024	+ 0.033	...	...
15	41 Piscium δ	+ 3.0825	+ 0.0066	- 0.002	- 20.019	+ 0.036	- 0.01	66
16	Lacaille 61	+ 2.9933	- 0.0209	...	- 20.006	+ 0.040	...	...
17	R Andromedæ Var. 1.	+ 3.1486	+ 0.0271	...	- 20.000	+ 0.043	...	...
18	... ..	+ 2.8966	- 0.0419	...	- 19.995	+ 0.042	...	...
19	... ..	+ 2.8601	- 0.0472	...	- 19.989	+ 0.043	...	...
20	Lacaille 81	+ 2.9807	- 0.0205	...	- 19.989	+ 0.044	...	...
21	10 Ceti	+ 3.0705	+ 0.0026	+ 0.005	- 19.981	+ 0.047	+ 0.03	95
22	12 Ceti	+ 3.0609	+ 0.0008	- 0.002	- 19.954	+ 0.055	+ 0.01	112
23	... ..	+ 3.1109	+ 0.0109	...	- 19.914	+ 0.063	...	...
24	Lacaille 132	+ 2.7741	- 0.0413	...	- 19.912	+ 0.057	...	...
25	Lalande 970	+ 3.1011	+ 0.0085	...	- 19.870	+ 0.070	...	...
26	... ..	+ 3.0963	+ 0.0076	...	- 19.866	+ 0.071	...	...
27	Lalande 1010	+ 3.0968	+ 0.0076	...	- 19.855	+ 0.072	...	...
28	18 Cassiopeæ α Var. 2.	+ 3.3531	+ 0.0553	+ 0.006	- 19.849	+ 0.080	+ 0.04	169
29	... ..	+ 3.0954	+ 0.0073	...	- 19.821	+ 0.078	...	...
30	16 Ceti β	+ 2.9996	- 0.0055	+ 0.013	- 19.797	+ 0.080	- 0.02	196
31	W. B. E. 0. 628 ...	+ 3.0578	+ 0.0020	...	- 19.795	+ 0.080	...	...
32	W. B. E. 0. 705 ...	+ 3.0536	+ 0.0019	...	- 19.781	+ 0.087	...	...
33	Taylor 235	+ 3.0913	+ 0.0066	...	- 19.780	+ 0.089	...	221
34	63 Piscium δ	+ 3.1011	+ 0.0077	+ 0.003	- 19.724	+ 0.090	+ 0.05	222
35	W. B. E. 0. 716 ...	+ 3.0526	+ 0.0018	...	- 19.723	+ 0.088	...	...

22. — Proper motions from "Greenwich Catalogue, 1872."