
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1871

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1871, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	21 Androm. α (<i>Alpherat</i>) ...	2.1	...	0	1	43.42	61	37	19.6	5	0.90
2	Lacaille 9739 ...	7.6	1	0	2	25.71	130	27	17.9	1	0.78
3	Lacaille 9746 ...	8.0	2	0	3	9.24	146	54	35.5	2	0.78
4	... ..	9.4	1	0	5	19.75	126	15	45.2	1	0.87
5	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	6	35.70	75	32	2.1	8	0.88
6	Lalande 421 ...	7.6	1	0	16	9.23	51	57	40.5	1	0.77
7	O. A. N. 817 ...	9.0	1	0	17	59.67	26	4	35.8	1	0.87
8	12 Ceti ...	6.2	...	0	23	27.27	96	40	14.6	13	0.87
9	13 Ceti ...	5.3	...	0	28	36.55	94	18	13.2	1	0.96
10	15 Ceti ...	6.9	...	0	31	28.82	91	12	49.3	1	0.79
11	18 Cassiopeæ α , Var. 2 ...	2.3	...	0	33	11.95	34	10	14.6	1	0.87
12	Taylor 184 ...	6.0	1	0	34	8.18	95	3	37.3	1	0.90
13	W. B. E. 0.585 ...	6.9	1	0	34	55.97	94	56	29.8	1	0.87
14	16 Ceti β ...	2.1	...	0	37	6.73	108	41	42.2	11	0.84
15	58 Piscium ...	5.7	...	0	40	17.74	78	43	48.2	2	0.82
16	60 Piscium ...	6.5	...	0	40	43.33	83	57	49.9	1	0.86
17	20 Ceti ...	5.0	...	0	46	24.98	91	50	43.6	1	0.82
18	... ..	8.8	1	0	50	40.13	129	37	51.0	1	0.84
19	... ..	9.0	2	0	52	10.35	130	39	45.7	2	0.87
20	Lacaille 271 ...	7.4	1	0	52	59.80	151	23	44.5	1	0.87
21	70 Piscium ...	6.1	...	0	55	24.42	82	45	20.7	1	0.96
22	71 Piscium ϵ ...	4.5	...	0	56	14.98	82	48	16.8	9	0.90
23	29 Ceti ...	6.3	...	1	1	20.58	88	40	56.3	1	0.77
24	33 Ceti ...	6.3	...	1	3	55.30	88	14	29.2	1	0.97
25	1 Urs. Min. α (<i>Polaris</i>) ...	2.2	...	1	11	37.6935	1	22	42.9	8	0.62
26	Brisbane 203 ...	7.0	1	1	15	16.30	150	45	9.0	1	0.88
27	44 Ceti ...	7.0	...	1	17	33.17	98	40	45.3	1	0.78
28	45 Ceti θ^1 ...	3.8	...	1	17	34.49	98	51	0.4	5	0.90
29	93 Piscium ρ ...	5.2	...	1	19	18.32	71	30	1.6	1	0.90
30	98 Piscium μ ...	5.2	...	1	23	25.66	84	31	18.9	2	0.82
31	Bonn +2 ^o . 221 ...	8.9	1	1	23	40.75	87	41	45.8	1	0.84
32	99 Piscium η ...	3.7	...	1	24	34.96	75	19	12.9	6	0.90
33	102 Piscium π ...	5.6	...	1	30	16.00	78	31	5.5	1	0.84
34	... ..	8.7	1	1	31	7.91	130	48	23.9	1	0.84
35	α Eridani (<i>Achernar</i>) ...	1.0	...	1	32	54.57	147	53	36.3	3	0.88

6.—Observed for map of E. Andromedæ Var.

7.—Observed for map of Gemma's Nova of 1572.

11.—18 Cassiopeæ α , Var. 2, (*Shedir*).

24.—Comparison star for Mars in 1862.

4/

37.35

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Answers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3.0776	+ 0.0182	+ 0.010	- 20.055	+ 0.013	+ 0.16	3215
2	Lacaille 9739 ...	+ 3.0604	- 0.0233	...	- 20.053	+ 0.013	...	...
3	Lacaille 9746 ...	+ 3.0439	- 0.0429	...	- 20.053	+ 0.015	...	...
4	... ..	+ 3.0493	- 0.0194	...	- 20.050	+ 0.019	...	...
5	88 Pegasi γ (<i>Algenib</i>)	+ 3.0820	+ 0.0100	- 0.001	- 20.047	+ 0.022	+ 0.01	1
6	Lalande 421 ...	+ 3.1458	+ 0.0271	...	- 20.005	+ 0.041	...	...
7	O. A. N. 317 ...	+ 3.2864	+ 0.0723	...	- 19.993	+ 0.047	...	...
8	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.950	+ 0.055	+ 0.01	38
9	13 Ceti ...	+ 3.0596	+ 0.0014	+ 0.027	- 19.898	+ 0.064	+ 0.02	50
10	15 Ceti ...	+ 3.0683	+ 0.0029	- 0.006	- 19.806	+ 0.069	+ 0.03	55
11	18 Cassiopeæ α , Var. 2	+ 3.3564	+ 0.0553	+ 0.004	- 19.844	+ 0.080	+ 0.04	59
12	Taylor 184 ...	+ 3.0546	+ 0.0012	...	- 19.833	+ 0.075	...	...
13	W. B. E. 0.585 ...	+ 3.0545	+ 0.0013	...	- 19.822	+ 0.078	...	...
14	16 Ceti β ...	+ 2.9992	- 0.0055	+ 0.015	- 19.792	+ 0.080	- 0.03	70
15	58 Piscium ...	+ 3.1188	+ 0.0101	+ 0.002	- 19.746	+ 0.087	+ 0.01	76
16	60 Piscium ...	+ 3.0971	+ 0.0063	- 0.001	- 19.739	+ 0.087	+ 0.00	80
17	20 Ceti ...	+ 3.0635	+ 0.0036	- 0.002	- 19.645	+ 0.098	+ 0.01	98
18	... ..	+ 2.8294	- 0.0155	...	- 19.566	+ 0.098	...	...
19	... ..	+ 2.8132	- 0.0160	...	- 19.538	+ 0.100	...	...
20	Lacaille 271 ...	+ 2.5102	- 0.0289	...	- 19.521	+ 0.092	...	...
21	70 Piscium ...	+ 3.1129	+ 0.0086	- 0.002	- 19.471	+ 0.116	- 0.07	110
22	71 Piscium ϵ ...	+ 3.1132	+ 0.0087	- 0.007	- 19.454	+ 0.119	- 0.04	113
23	29 Ceti ...	+ 3.0804	+ 0.0058	+ 0.007	- 19.340	+ 0.126	+ 0.44	133
24	33 Ceti ...	+ 3.0835	+ 0.0002	- 0.002	- 19.279	+ 0.131	+ 0.00	148
25	1 Urs. Min. α (<i>Polaris</i>)	+ 20.1515	+ 14.3118	+ 0.108	- 19.084	+ 0.911	+ 0.00	102
26	Brisbane 203 ...	+ 2.3020	- 0.0190	...	- 18.983	+ 0.116	...	...
27	44 Ceti ...	+ 3.0043	+ 0.0019	+ 0.008	- 18.917	+ 0.154	+ 0.06	133
28	45 Ceti θ^1 ...	+ 3.0030	+ 0.0018	- 0.007	- 18.917	+ 0.154	+ 0.20	184
29	93 Piscium ρ ...	+ 3.2239	+ 0.0163	- 0.006	- 18.866	+ 0.168	- 0.08	185
30	98 Piscium μ ...	+ 3.1178	+ 0.0089	+ 0.018	- 18.741	+ 0.169	+ 0.03	199
31	Bonn +2°. 221 ...	+ 3.0914	+ 0.0073	...	- 18.728	+ 0.169	...	...
32	99 Piscium η ...	+ 3.1984	+ 0.0141	- 0.000	- 18.704	+ 0.177	+ 0.00	203
33	102 Piscium π ...	+ 3.1764	+ 0.0125	- 0.006	- 18.519	+ 0.185	- 0.05	214
34	... ..	+ 3.6251	- 0.0101	...	- 18.489	+ 0.156	...	...
35	α Eridani (<i>Achernar</i>)	+ 2.2819	- 0.0128	+ 0.008	- 18.429	+ 0.137	+ 0.07	Stone.