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MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1872

REDUCED TO JANUARY 1 OF THAT YEAR

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## Mean Positions of Stars for 1872, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	Lalande 47303 ... ..	6.5	5	0	1	14.35	113	13	13.6	5	0.86
2	21 Androm. $\alpha$ ( <i>Alpherat</i> )...	2.1	...	0	1	46.44	61	36	59.9	5	0.83
3	... ..	9.2	1	0	6	35.71	131	5	38.7	1	0.90
4	88 Pegasi $\gamma$ ( <i>Algenib</i> ) ...	3.0	...	0	6	38.71	75	31	42.4	9	0.84
5	... ..	9.0	2	0	17	12.29	26	24	36.4	2	0.84
6	R. Andromedæ, Var. 1 ...	7.5	2	0	17	16.36	52	7	53.6	2	0.79
7	O. A. N. 317 ... ..	8.7	3	0	18	2.93	26	4	14.6	3	0.85
8	... ..	9.0	1	0	18	48.28	26	51	23.6	1	0.83
9	45 Piscium ... ..	6.0	2	0	19	6.01	83	1	0.5	2	0.86
10	12 Ceti ... ..	6.2	...	0	23	30.42	94	39	54.2	5	0.84
11	... ..	8.3	...	0	27	7.33	144	51	42.0	1	0.76
12	13 Ceti ... ..	5.9	1	0	28	39.69	94	17	53.4	1	0.86
13	Taylor 184 ... ..	6.0	2	0	34	11.25	95	3	17.2	2	0.85
14	W. B. E. 0.585 ... ..	8.9	4	0	34	59.15	94	56	8.7	4	0.86
15	16 Ceti $\beta$ ... ..	2.1	...	0	37	9.78	108	41	23.6	10	0.84
16	58 Piscium ... ..	5.7	...	0	40	20.03	78	43	29.5	1	0.77
17	... ..	9.7	1	0	49	15.22	153	47	12.1	1	0.92
18	2 Ursæ Minoris ... ..	4.5	...	0	51	39.34	4	25	54.4	1	0.20
19	70 Piscium ... ..	6.2	4	0	55	27.56	82	45	0.4	4	0.86
20	71 Piscium $\epsilon$ ... ..	4.5	...	0	56	18.05	82	47	58.2	6	0.86
21	... ..	8.0	1	1	3	28.09	150	13	43.4	1	0.90
22	... ..	8.0	1	1	4	22.76	18	32	17.2	1	0.86
23	... ..	8.2	2	1	7	44.60	152	57	31.0	2	0.89
24	... ..	7.3	1	1	9	23.45	18	16	25.7	1	0.92
25	... ..	9.3	1	1	10	33.46	81	47	13.0	1	0.89
26	1 Urs. Min. $\alpha$ ( <i>Polaris</i> ) ...	2.2	...	1	11	57.19	1	22	23.9	14	0.53
27	44 Ceti ... ..	8.0	1	1	17	36.24	98	40	26.3	1	0.81
28	45 Ceti $\theta^1$ ... ..	3.8	...	1	17	37.60	98	50	41.0	4	0.90
29	99 Piscium $\eta$ ... ..	3.7	...	1	24	38.09	75	18	54.3	5	0.88
30	Taylor 486 ... ..	8.4	2	1	26	1.29	140	33	40.7	2	0.83
31	... ..	8.4	1	1	26	2.54	150	19	11.9	1	0.89
32	102 Piscium $\pi$ ... ..	6.0	2	1	30	18.83	78	30	49.6	2	0.87
33	$\alpha$ Eridani ( <i>Achernar</i> ) ...	1.0	...	1	32	56.95	147	53	16.8	2	0.88
34	106 Piscium $\nu$ ... ..	4.7	...	1	34	46.31	85	9	39.6	6	0.74
35	... ..	8.7	1	1	38	49.97	152	0	28.0	1	0.91

47.28

1.—Comparison star for Algira in 1862.

5—7—8.—Observed for map of Gemma's Nova of 1572.

22—24.—Observed for map of S Cassiopeæ, Var. 2.

## 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	Lalande 47303 ...	+ 3.0690	- 0.0108	...	- 20.054	+ 0.012	...	...
2	21 Andromedæ $\alpha$ ...	+ 3.0778	+ 0.0182	+ 0.010	- 20.054	+ 0.013	+ 0.16	3215
3	... ..	+ 3.0387	- 0.0233	...	- 20.047	+ 0.021	...	...
4	88 Pegasi $\gamma$ ( <i>Algenib</i> )	+ 3.0821	+ 0.0100	- 0.001	- 20.045	+ 0.022	+ 0.01	1
5	... ..	+ 3.2741	+ 0.0704	...	- 19.998	+ 0.044	...	...
6	R Androm., Var. 1 ...	+ 3.1505	+ 0.0271	...	- 19.997	+ 0.043	...	...
7	O. A. N. 317 ...	+ 3.2871	+ 0.0723	...	- 19.992	+ 0.047	...	...
8	... ..	+ 3.2884	+ 0.0697	...	- 19.987	+ 0.048	...	...
9	45 Piscium ...	+ 3.0859	+ 0.0066	+ 0.000	- 19.985	+ 0.046	+ 0.05	26
10	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.950	+ 0.055	+ 0.01	38
11	... ..	+ 2.8480	- 0.0325	...	- 19.914	+ 0.058	...	...
12	13 Ceti ...	+ 3.0597	+ 0.0014	+ 0.027	- 19.897	+ 0.064	+ 0.02	50
13	Taylor 184 ...	+ 3.0546	+ 0.0012	...	- 19.832	+ 0.075	...	...
14	W. B. E. 0.585 ...	+ 3.0546	+ 0.0013	...	- 19.821	+ 0.078	...	...
15	16 Ceti $\beta$ ...	+ 2.9991	- 0.0055	+ 0.015	- 19.791	+ 0.080	- 0.03	70
16	58 Piscium ...	+ 3.1189	+ 0.0101	+ 0.002	- 19.745	+ 0.087	+ 0.01	76
17	... ..	+ 2.4931	- 0.0323	...	- 19.593	+ 0.085	...	...
18	2 Ursæ Minoris ...	+ 6.9272	+ 1.3216	...	- 19.547	+ 0.234	...	...
19	70 Piscium ...	+ 3.1130	+ 0.0086	- 0.002	- 19.470	+ 0.116	- 0.07	110
20	71 Piscium $\epsilon$ ...	+ 3.1132	+ 0.0087	- 0.007	- 19.453	+ 0.119	- 0.04	113
21	... ..	+ 2.4333	- 0.0237	...	- 19.291	+ 0.105	...	...
22	... ..	+ 4.1774	+ 0.1517	...	- 19.268	+ 0.177	...	...
23	... ..	+ 2.3092	- 0.0225	...	- 19.185	+ 0.106	...	...
24	... ..	+ 4.2793	+ 0.1510	...	- 19.142	+ 0.194	...	...
25	... ..	+ 3.1307	+ 0.0099	...	- 19.111	+ 0.146	...	...
26	1 Urs. Min. $\alpha$ ( <i>Polaris</i> )	+ 20.2026	+ 14.4666	+ 0.109	- 19.074	+ 0.922	+ 0.00	102
27	44 Ceti ...	+ 3.0043	+ 0.0019	+ 0.008	- 18.916	+ 0.154	+ 0.06	183
28	45 Ceti $\theta^1$ ...	+ 3.0030	+ 0.0018	- 0.007	- 18.916	+ 0.154	+ 0.20	184
29	99 Piscium $\eta$ ...	+ 3.1986	+ 0.0141	- 0.000	- 18.702	+ 0.177	+ 0.00	203
30	Taylor 496 ...	+ 2.4768	- 0.0141	...	- 18.662	+ 0.140	...	...
31	... ..	+ 2.2121	- 0.0148	...	- 18.657	+ 0.126	...	...
32	102 Piscium $\pi$ ...	+ 3.1766	+ 0.0125	- 0.006	- 18.517	+ 0.185	- 0.05	214
33	$\alpha$ Eridani ( <i>Achernar</i> )..	+ 2.2317	- 0.0128	+ 0.008	- 18.428	+ 0.137	+ 0.07	Stone
34	106 Piscium $\nu$ ...	+ 3.1176	+ 0.0091	- 0.003	- 18.365	+ 0.191	- 0.01	228
35	... ..	+ 2.0209	- 0.0089	...	- 18.219	+ 0.131	...	...

33.—Proper motions from "Stone's Cape Catalogue."