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MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1867

REDUCED TO JANUARY 1. OF THAT YEAR.

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Mean Positions of Stars for 1867 January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h	m	s	°	'	"		
1	21 Androm. $\alpha$ ( <i>Alpherat</i> ) ...	2.0	...	0	1	31.04	61	38	38.7	3	0.77
2	... ..	9.2	1	0	2	1.55	127	29	<del>28.3</del>	1	0.81
3	Lacaille 9746 ... ..	8.0	1	0	2	57.24	146	55	55.5	1	0.84
4	... ..	9.4	2	0	5	7.73	126	17	5.3	2	0.80
5	... ..	8.0	1	0	6	20.18	181	7	17.9	1	0.76
6	88 Pegasi $\gamma$ ( <i>Algenib</i> ) ...	3.0	...	0	6	23.30	75	38	22.4	4	0.80
7	Lalande 163 ... ..	7.6	2	0	7	47.58	89	26	35.0	2	0.86
8	Taylor 64 ... ..	7.7	3	0	14	16.77	129	58	38.2	3	0.88
9	Lalande 421 ... ..	7.4	1	0	15	56.60	51	59	1.1	2	0.80
10	Lacaille 61 ... ..	6.9	1	0	16	10.56	129	59	59.3	1	0.84
11	Lacaille 88 ... ..	8.0	1	0	19	39.87	130	23	1.8	1	0.89
12	... ..	8.8	2	0	22	51.01	94	45	0.5	2	0.84
13	12 Ceti ... ..	6.2	...	0	23	15.06	94	41	34.6	8	0.85
14	Lalande 670 ... ..	6.6	1	0	23	18.35	85	52	33.7	1	0.88
15	... ..	9.6	1	0	25	32.03	76	8	14.8	1	0.89
16	... ..	10.5	1	0	26	13.15	76	14	13.7	1	0.71
17	... ..	8.3	1	0	26	52.76	144	53	22.3	1	0.78
18	Taylor 143... ..	6.5	2	0	28	<del>7.52</del> 8.09	143	6	30.8	2	0.85
19	... ..	9.0	3	0	32	5.31	128	48	52.5	3	0.84
20	... ..	9.4	2	0	35	7.90	83	27	53.2	2	0.89
21	16 Ceti $\beta$ ... ..	2.1	...	0	36	54.66	108	43	2.6	7	0.86
22	W. B. E. 0.628 ... ..	9.0	1	0	37	3.20	93	48	19.6	1	0.87
23	W. B. E. 0.697 ... ..	8.7	1	0	40	52.69	95	13	33.4	2	0.83
24	W. B. E. 0.705 ... ..	7.9	1	0	41	17.35	94	26	20.9	2	0.83
25	63 Piscium $\delta$ ... ..	4.6	...	0	41	46.96	83	8	21.3	1	0.85
26	W. B. E. 0.716 ... ..	8.8	1	0	41	50.66	94	35	49.5	1	0.92
27	Lacaille 234 ... ..	7.0	3	0	45	3.143	129	15	8.1	3	0.90
28	... ..	9.4	2	0	45	18.13	129	12	55.3	2	0.86
29	... ..	9.5	2	0	50	28.91	129	39	11.0	3	0.87
30	Lacaille 264 ... ..	7.6	3	0	50	52.28	154	41	8.7	3	0.85
31	... ..	9.3	2	0	51	11.99	130	39	56.9	2	0.91
32	... ..	8.5	...	0	51	59.05	130	41	3.2	1	0.79
33	71 Piscium $\epsilon$ ... ..	4.5	...	0	56	2.48	82	49	36.5	7	0.85
34	... ..	9.6	2	1	1	33.72	17	35	22.3	2	0.89
35	... ..	7.4	1	1	3	15.84	150	15	20.3	1	0.94

1.3

89

2.13

7.—Star occulted by the moon, when totally eclipsed, on 1866 Sep. 24.  
 22.—23.—24.—26.—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	21 Androm. $\alpha$ (Alpherat)	+ 3.0768	+ 0.0182	+ 0.009	- 20.055	+ 0.013	+ 0.15	4
2	... ..	+ 3.0631	- 0.0207	...	- 20.054	+ 0.013	...	...
3	Lacaille 9746	+ 3.0456	- 0.0429	...	- 20.053	+ 0.015	...	...
4	... ..	+ 3.0501	- 0.0194	...	- 20.051	+ 0.019	...	...
5	... ..	+ 3.0398	- 0.0233	...	- 20.048	+ 0.021	...	...
6	88 Pegasi $\gamma$ (Algenib)	+ 3.0816	+ 0.0100	0.000	- 20.048	+ 0.022	+ 0.02	26
7	Lalande 163	+ 3.0724	+ 0.0026	...	- 20.044	+ 0.024	...	...
8	Taylor 64	+ 3.0023	- 0.0211	...	- 20.016	+ 0.037	...	69
9	Lalande 421	+ 3.1447	+ 0.0271	...	- 20.007	+ 0.041	...	...
10	Lacaille 61	+ 2.9930	- 0.0209	...	- 20.005	+ 0.040	...	...
11	Lacaille 88	+ 2.9747	- 0.0207	...	- 19.981	+ 0.046	...	...
12	... ..	+ 3.0611	+ 0.0007	...	- 19.956	+ 0.054	...	...
13	12 Ceti	+ 3.0609	+ 0.0008	- 0.002	- 19.952	+ 0.055	+ 0.01	112
14	Lalande 670	+ 3.0819	+ 0.0054	...	- 19.951	+ 0.054	...	118
15	... ..	+ 3.1088	+ 0.0103	...	- 19.931	+ 0.059	...	...
16	... ..	+ 3.1096	+ 0.0109	...	- 19.924	+ 0.061	...	...
17	... ..	+ 2.8496	- 0.0325	...	- 19.917	+ 0.058	...	...
18	Taylor 148	+ 2.8540	- 0.0303	...	- 19.904	+ 0.060	...	143
19	... ..	+ 2.9225	- 0.0176	...	- 19.859	+ 0.069	...	...
20	... ..	+ 3.0955	+ 0.0073	...	- 19.819	+ 0.078	...	...
21	16 Ceti $\beta$	+ 2.9994	- 0.0055	+ 0.018	- 19.795	+ 0.080	- 0.02	196
22	W. B. E. 0.628	+ 3.0570	+ 0.0020	...	- 19.794	+ 0.080	...	...
23	W. B. E. 0.697	+ 3.0503	+ 0.0015	...	- 19.787	+ 0.087	...	...
24	W. B. E. 0.705	+ 3.0535	+ 0.0019	...	- 19.781	+ 0.087	...	...
25	63 Piscium $\delta$	+ 3.1013	+ 0.0077	+ 0.008	- 19.722	+ 0.090	+ 0.05	222
26	W. B. E. 0.716	+ 3.0526	+ 0.0018	...	- 19.721	+ 0.088	...	...
27	Lacaille 234	+ 2.8587	- 0.0161	...	- 19.668	+ 0.090	...	...
28	... ..	+ 2.8578	- 0.0160	...	- 19.664	+ 0.090	...	...
29	... ..	+ 2.8300	- 0.0155	...	- 19.570	+ 0.098	...	...
30	Lacaille 264	+ 2.4499	- 0.0318	...	- 19.568	+ 0.087	...	...
31	... ..	+ 2.8076	- 0.0160	...	- 19.556	+ 0.099	...	...
32	... ..	+ 2.8138	- 0.0160	...	- 19.542	+ 0.100	...	...
33	71 Piscium $\epsilon$	+ 3.1128	+ 0.0087	- 0.002	- 19.459	+ 0.119	0.00	256
34	... ..	+ 4.1914	+ 0.1022	...	- 19.336	+ 0.171	...	...
35	... ..	+ 2.4345	- 0.0287	...	- 19.296	+ 0.105	...	...

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