
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1885

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1885, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	R. P. L. 10 ...	6.6	...	0	51	56.17	1	35	33.5	1	0.00
2	43 Andromedæ β ...	2.2	...	1	3	17.68	54	59	20.9	1	0.00
3	1 Tauri α, Var. 5 ...	Var.	...	3	18	37.55	81	22	35.6	8	0.14
4	18 Eridani ε ...	3.7	...	3	27	30.71	99	50	58.6	9	0.13
5	37 Tauri A ¹ ...	4.4	...	3	57	53.78	68	13	59.7	9	0.04
6	57 Eridani μ ...	4.3	...	4	39	45.16	98	27	59.3	10	0.07
7	R. P. L. 37 ...	7.0	...	4	51	8.40	4	11	38.6	10	0.07
8	34 Orionis δ, Var. 1 ...	Var.	...	5	26	7.89	90	23	5.3	10	0.10
9	46 Orionis ε ...	1.8	...	5	30	22.62	91	16	36.4	10	0.11
10	53 Orionis κ ...	2.2	...	5	42	18.06	99	42	42.8	10	0.11
11	7 Geminorum η ...	3.5	...	6	7	56.14	67	27	38.4	10	0.14
12	31 Geminorum ξ ...	3.4	...	6	38	50.13	76	58	53.3	10	0.19
13	B. D. + 28. 1247 ...	8.5	4	6	42	3.44	61	19	50.2	5	0.12
14	W. B. N. VI. 1239 ...	8.5	5	6	42	26.38	61	33	11.8	5	0.13
15	51 Cephei (Hew.) ...	5.3	...	6	46	16.24	2	46	33.3	12	0.28
16	14 Canis Majoris θ ...	4.2	...	6	48	50.79	101	53	43.1	10	0.18
17	3 Canis Minoris β ...	3.1	...	7	20	54.85	81	28	46.7	10	0.20
18	ξ Argūs ...	3.4	...	7	44	27.47	114	34	18.1	10	0.22
19	17 Cancrī β ...	3.8	...	8	10	16.68	80	27	38.2	10	0.23
20	43 Cancrī γ ...	4.8	...	8	36	37.72	68	7	7.3	8	0.29
21	65 Cancrī α ...	4.3	...	8	52	11.79	77	41	52.2	6	0.30
22	14 Leonis α ...	3.8	...	9	35	0.73	79	35	7.0	4	0.31
23	R. P. L. 72 ...	6.0	...	10	12	46.33	5	9	52.9	10	0.40
24	42 Hydræ μ ...	4.1	...	10	20	31.69	106	14	57.5	10	0.36
25	53 Leonis δ ...	5.0	...	10	54	37.28	85	45	54.4	10	0.36
26	84 Leonis τ ...	5.1	...	11	22	1.39	86	30	37.3	8	0.38
27	8 Virginis π ...	4.4	...	11	54	58.81	82	44	38.6	10	0.37
28	R. P. L. 92 ...	6.7	...	12	13	27.54	2	55	26.5	2	0.39
29	7 Corvi δ ² ...	3.1	...	12	23	54.91	105	52	31.0	5	0.41
30	43 Virginis δ ...	3.7	...	12	49	48.68	85	58	36.6	2	0.42
31	... ..	8.7	5	13	57	30.57	90	4	24.0	5	0.36
32	Lalande 25863 ...	9.0	5	13	59	21.47	90	21	51.7	5	0.37
33	R. P. L. 110 ...	7.0	...	14	52	29.38	3	34	31.9	5	0.03
34	35 Ophiuchi η ...	2.6	...	17	3	47.01	105	34	52.0	5	0.61
35	... ..	7.5	5	17	16	57.71	126	21	0.7	5	0.61

1.—Groombridge 144.
28.—Groombridge 1871.

13—14.—Comparison stars for Vera in 1885.
31—32.—Comparison stars for Sylvia in 1885.
35.—Comparison star for comet in 1884.

23.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
1	R. P. L. 10 ...	+ 18·8751	+ 8·4082	+ 0·153	- 19·541	+ 0·463	+ 0·08	65
2	43 Andromedæ β ...	+ 3·3278	+ 0·0286	+ 0·014	- 19·294	+ 0·139	+ 0·08	140
3	1 Tauri α ...	+ 3·2270	+ 0·0115	- 0·005	- 12·982	+ 0·304	+ 0·07	477
4	18 Eridani ε ...	+ 2·8899	+ 0·0055	- 0·068	- 12·379	+ 0·336	- 0·01	493
5	37 Tauri A ¹ ...	+ 3·5322	+ 0·0153	+ 0·005	- 10·186	+ 0·117	+ 0·06	554
6	57 Eridani μ ...	+ 2·9964	+ 0·0055	- 0·000	- 6·879	+ 0·413	+ 0·00	657
7	R. P. L. 37 ...	+ 20·4860	+ 1·4852	...	- 5·935	+ 2·858	...	...
8	34 Orionis δ ...	+ 3·0635	+ 0·0038	- 0·001	- 2·953	+ 0·443	+ 0·01	787
9	46 Orionis ε ...	+ 3·0429	+ 0·0035	- 0·002	- 2·585	+ 0·441	- 0·01	809
10	53 Orionis κ ...	+ 2·8442	+ 0·0027	- 0·002	- 1·517	+ 0·414	- 0·00	844
11	7 Geminorum η ...	+ 3·6269	+ 0·0007	- 0·005	+ 0·695	+ 0·529	+ 0·00	900
12	31 Geminorum ξ ...	+ 3·3771	- 0·0017	- 0·009	+ 3·383	+ 0·485	+ 0·20	980
13	B. D. + 28. 1247 ...	+ 3·7911	- 0·0051	...	+ 3·659	+ 0·542	...	...
14	W. B. N. VI. 1239 ...	+ 3·7843	- 0·0051	...	+ 3·693	+ 0·541	...	...
15	51 Cephei (Her.) ...	+ 30·0859	- 2·3086	- 0·040	+ 4·021	+ 4·297	+ 0·05	Gr.
16	14 Canis Majoris θ ...	+ 2·7971	+ 0·0004	- 0·011	+ 4·243	+ 0·307	+ 0·00	1011
17	3 Canis Minoris β ...	+ 3·2604	- 0·0041	- 0·004	+ 6·933	+ 0·444	+ 0·03	1079
18	ξ Argūs ...	+ 2·5235	+ 0·0008	- 0·001	+ 8·827	+ 0·327	- 0·02	1132
19	17 Cancri β ...	+ 3·2617	- 0·0072	- 0·004	+ 10·796	+ 0·397	+ 0·04	1180
20	43 Cancri γ ...	+ 3·4887	- 0·0143	- 0·009	+ 12·663	+ 0·390	+ 0·03	1280
21	65 Cancri α ...	+ 3·2854	- 0·0098	+ 0·001	+ 13·639	+ 0·345	+ 0·02	1269
22	14 Leonis α ...	+ 3·2177	- 0·0093	- 0·010	+ 16·173	+ 0·272	+ 0·02	1360
23	R. P. L. 72 ...	+ 9·7429	- 1·5821	- 0·096	+ 17·898	+ 0·633	- 0·04	1399
24	42 Hydræ μ ...	+ 2·9085	+ 0·0040	- 0·010	+ 18·195	+ 0·171	+ 0·06	1451
25	58 Leonis δ ...	+ 3·1002	- 0·0039	- 0·002	+ 19·243	+ 0·120	+ 0·01	1526
26	84 Leonis τ ...	+ 3·0859	- 0·0020	- 0·001	+ 19·779	+ 0·066	+ 0·01	1570
27	8 Virginis π ...	+ 3·0761	- 0·0022	- 0·003	+ 20·048	+ 0·002	+ 0·02	1618
28	R. P. L. 92 ...	+ 1·5364	+ 0·0034	+ 0·285	+ 20·019	- 0·022	+ 0·02	1656
29	7 Corvi δ ² ...	+ 3·1120	+ 0·0118	- 0·014	+ 19·944	- 0·055	+ 0·15	1675
30	43 Virginis δ ...	+ 3·0522	+ 0·0025	- 0·034	+ 19·532	- 0·103	+ 0·05	1723
31	... ..	+ 3·0732	+ 0·0075	...	+ 17·475	- 0·228	...	...
32	Lalande 25863 ...	+ 3·0766	+ 0·0077	...	+ 17·395	- 0·230	...	...
33	R. P. L. 110 ...	- 11·5528	+ 2·9880	...	+ 14·637	+ 1·146	...	...
34	35 Ophiuchi η ...	+ 3·4340	+ 0·0073	+ 0·000	+ 4·870	- 0·487	- 0·10	2171
35	+ 4·0390	+ 0·0106	...	+ 3·743	- 0·581

Mean Positions of Stars for 1885, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	3.8	...	17	22	41.48	130	46	48.3	3	0.63
37	60 Ophiuchi β	2.9	...	17	37	47.37	85	23	1.5	5	0.63
38	72 Ophiuchi	3.8	...	18	1	53.82	80	27	4.9	4	0.61
39	23 Ursæ Minoris δ	4.3	...	18	9	24.75	3	23	22.1	12	0.22
40	58 Serpentis η	3.4	...	18	15	21.51	92	55	40.0	1	0.68
41	22 Sagittarii λ	3.1	...	18	20	52.32	115	29	1.3	1	0.68
42	13 Aquilæ ϵ	4.1	...	18	54	24.16	75	5	12.3	1	0.68
43	λ Ursæ Minoris	6.5	...	19	38	54.06	1	2	40.7	6	0.31
44	53 Aquilæ α (<i>Altair</i>)	1.0	...	19	45	10.29	81	26	3.9	2	0.70
45	65 Aquilæ θ	3.4	...	20	5	22.26	91	9	41.4	10	0.74
46	2 Delphini ϵ	4.1	...	20	27	43.08	79	5	12.2	10	0.74
47	2 Aquarii ϵ	3.8	...	20	41	27.01	99	54	56.9	10	0.76
48	23 Capricorni θ	4.3	...	20	59	28.83	107	41	20.8	6	0.79
49	48 Aquarii γ	4.1	...	22	15	42.94	91	58	0.0	4	0.80
50	73 Aquarii λ	3.8	...	22	46	36.73	98	11	28.8	3	0.80
51	R. P. L. 155	7.0	...	23	24	19.05	4	12	57.8	11	0.37

Observed with the Madras Meridian Circle in that Year.

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
36	...	+ 4.2104	+ 0.0111	...	+ 3.251	- 0.606	...	...
37	60 Ophiuchi β ...	+ 2.9650	+ 0.0030	- 0.004	+ 1.940	- 0.431	- 0.17	2229
38	72 Ophiuchi ...	+ 2.8475	+ 0.0019	- 0.006	- 0.166	- 0.415	- 0.09	2275
39	23 Ursæ Minoris δ ...	- 19.4808	- 0.2722	+ 0.026	- 0.823	+ 2.839	- 0.04	2395
40	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.344	- 0.456	+ 0.68	2298
41	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.824	- 0.537	+ 0.20	2310
42	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.716	- 0.885	+ 0.08	2390
43	λ Ursæ Minoris	- 68.5193	- 28.9896	- 0.050	- 8.388	+ 8.418	+ 0.01	2795
44	53 Aquilæ α ...	+ 2.8919	- 0.0014	+ 0.035	- 8.882	- 0.374	- 0.38	2524
45	65 Aquilæ θ ...	+ 3.0956	- 0.0042	- 0.000	- 10.430	- 0.382	- 0.01	2576
46	2 Dolphini ϵ ...	+ 2.8664	- 0.0013	- 0.001	- 12.049	- 0.330	+ 0.02	2642
47	2 Aquarii ϵ ...	+ 3.2505	- 0.0084	- 0.000	- 12.987	- 0.356	+ 0.03	2681
48	23 Capricorni θ ...	+ 3.3745	- 0.0128	+ 0.004	- 14.147	- 0.344	+ 0.05	2733
49	48 Aquarii γ ...	+ 3.0926	- 0.0042	+ 0.007	- 18.013	- 0.191	- 0.02	2943
50	73 Aquarii λ ...	+ 3.1330	- 0.0063	- 0.002	- 19.035	- 0.137	- 0.04	3019
51	R. P. l. 155 ...	+ 0.2608	- 0.3314	...	- 19.811	+ 0.003	...	...