MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1864

REDUCED TO JANUARY 1, OF THAT YEAR

Mean Positions of Stars for 1864 *January* 1*st,*

Number	Star	Magnitude	Estimation	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	*m*	*s*					
1	11010 Taylor	7 9	1	0	0	28 80	147	35	39 1	1	0 86
2		9 1	1	0	0	42 06	151	23	53 2	1	0 85
3	21 Androm α (*Alpherat*)	2 0		0	1	21 68	61	39	40 0	9	0 84
4	9739 Lacaille	7 6	2	0	2	4 03	130	29	36 3	2	0 75
5	7 Taylor	7 1	1	0	2	57 47	93	1°	4 6	1	0 71
6	3 Lacaille	6 6	1	0	6	6 66	148	40	15 3	1	0 84
7	88 Pegasi γ (*Algenib*)	2 7		0	6	14 08	75	34	23 5	9	0 82
8		9 5	2	0	6	~~39 45~~	131	7	1 2	2	0 75
9		8 7	1	0	9	22 56	149	31	50 5	1	0 85
10		9 0	2	0	9	33 24	153	55	7 1	2	0 86
11	41 Lacaille	8 1	2	0	12	33 58	130	52	3 0	2	0 78
12		8 7	3	0	12	47 29	150	26	38 8	3	0 81
13	41 Piscium d	5 6	2	0	13	36 03	82	33	55 0	2	0 71
14		9 0	1	0	18	31 22	152	57	38 5	1	0 85
15	81 Lacaille	7 2	1	0	18	38 22	130	0	39 9	1	0 74
16	12 Ceti	6 4		0	23	5 86	94	42	34 7	9	0 87
17	T Piscium Var 3	10 5	1	0	24	57 60	76	9	0 4	1	0 82
18		8 2	3	0	27	7 86	76	14	8 1	3	0 72
19	132 Lacaille	9 0	1	0	27	18 38	151	53	55 9	1	0 85
20	970 Lalande	7 7	1	0	31	4 54	80	55	9 4	1	0 93
21	1010 Lalande	9 3	2	0	32	15 51	82	32	27 4	2	0 82
22	18 Cassiopeæ α Var 2	2 5		0	32	48 14	34	12	34 7	1	0 92
23	16 Ceti β	2 0		0	36	45 65	108	44	1 4	11	0 89
24	0 628 W B E	9 3		0	36	54 12	93	49	29 9	1	0 85
25		9 0	2	0	39	54 00	150	44	54 7	2	0 86
26	58 Piscium	5 0	1	0	39	55 34	78	46	8 8	1	0 78
27	63 Piscium δ	5 0		0	41	37 67	88	9	21 5	3	0 73
28	253 Lacaille	6 0	1	0	47	57 75	153	36	39 3	1	0 85
29		9 6	1	0	48	55 25	153	49	48 6	1	0 94
30	2 Ursæ Minoris	4 4		0	50	44 32	4	28	29 4	2	0 60
31	0 897 W B E	9 2	3	0	52	12 34	92	49	55 1	3	0 90
32	271 Lacaille	7 5	1	0	52	42 54	151	25	58 2	1	0 86
33	14 R P L	6 2		0	53	58 $\frac{87}{25}$	3	34	53 8	1	0 39
34	70 Piscium	6 9	1	0	55	2 48	82	47	38 2	1	0 92
35	71 Piscium ϵ	4 5		0	55	53 21	82	50	35 3	8	0 54

17 —T Piscium Var 3 —Period irregular —Range 9 5 to 11th magnitude
20 —21 —Comparison stars for Ariadne in 1861
22 —α Cassiopeæ Var 2 —Irregular —Range 2 2 to 2 8 magnitude
24 —Comparison star for Europa in 1861
30 —12 R P L
31 —Comparison star for Europa in 1862
33 —195 Groombridge

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	
		s	*s*	*s*				
1	11010 Taylor	+ 3 0677	− 0 0452		− 20 055	+ 0 010		8377
2		+ 3 0646	− 0 0526		− 20 055	+ 0 010		
3	21 Andromedæ α	+ 3 0763	+ 0 0182	+ 0 009	− 20 055	+ 0 013	+ 0 15	4
4	9739 Lacaille	+ 3 0618	− 0 0233		− 20 054	+ 0 013		
5	7 Taylor	+ 3 0711	+ 0 0004		− 20 053	+ 0 015		12
6	3 Lacaille	+ 3 0135	− 0 0449		− 20 048	+ 0 021		
7	88 Pegasi γ	+ 3 0813	+ 0 0100	0 000	− 20 048	+ 0 022	+ 0 02	26
8		+ 3 0382	− 0 0232		− 20 046	+ 0 022		
9		+ 2 9792	− 0 0452		− 20 038	+ 0 027		
10		+ 2 9583	− 0 0540		− 20 037	+ 0 027		
11	41 Lacaille	+ 3 0087	− 0 0221		− 20 025	+ 0 033		
12		+ 2 9406	− 0 0453		− 20 024	+ 0 033		
13	41 Piscium d	+ 3 0824	+ 0 0066	− 0 002	− 20 019	+ 0 036	− 0 01	66
14		+ 2 8606	− 0 0472		− 19 989	+ 0 043		
15	81 Lacaille	+ 2 9809	− 0 0205		− 19 989	+ 0 044		
16	12 Ceti	+ 3 0609	+ 0 0008	− 0 002	− 19 954	+ 0 055	+ 0 01	112
17	T Piscium Var 3	+ 3 1079	+ 0 0108		− 19 936	+ 0 058		
18		+ 3 1108	+ 0 0109		− 19 915	+ 0 063		
19	132 Lacaille	+ 2 7745	− 0 0413		− 19 913	+ 0 057		
20	970 Lalande	+ 3 1010	+ 0 0085		− 19 871	+ 0 070		
21	1010 Lalande	+ 3 0967	+ 0 0076		− 19 856	+ 0 072		
22	18 Cassiopeæ α Var 2	+ 3 3525	+ 0 0553	+ 0 006	− 19 850	+ 0 080	+ 0 04	169
23	16 Ceti β	+ 2 9996	− 0 0055	+ 0 013	− 19 798	+ 0 080	− 0 02	196
24	0 628 W B E	+ 3 0078	+ 0 0020		− 19 796	+ 0 080		
25		+ 2 6586	− 0 0340		− 19 752	+ 0 075		
26	58 Piscium	+ 3 1181	+ 0 0101	0 000	− 19 752	+ 0 087	0 00	213
27	63 Piscium δ	+ 3 1010	+ 0 0077	+ 0 003	− 19 725	+ 0 090	+ 0 05	222
28	253 Lacaille	+ 2 5123	− 0 0327		− 19 617	+ 0 084		251
29		+ 2 4957	− 0 0323		− 19 600	+ 0 085		
30	2 Ursæ Minoris	+ 6 8236	+ 1 2850	+ 0 065	− 19 565	+ 0 227	+ 0 01	262
31	0 897 W B E	+ 3 0572	+ 0 0034		− 19 537	+ 0 109		
32	271 Lacaille	+ 2 5123	− 0 0289		− 19 522	+ 0 092		276
33	14 B P L	+ 8 0556	+ 1 9725	− 0 171	− 19 502	+ 0 282	− 0 02	273
34	70 Piscium	+ 3 1123	+ 0 0086	− 0 003	− 19 479	+ 0 116	+ 0 17	281
35	71 Piscium ϵ	+ 3 1125	+ 0 0087	− 0 002	− 19 462	+ 0 119	0 00	288

16—33 —Proper motions adopted from *Greenwich Catalogue*
34 —Proper motion in Polar Distance taken from " *Greenwich Catalogue* "

Mean Positions of Stars for 1864 *January* 1*st*,

Number	Star	Magnitude	Estimations	Mean Right Ascension			Mean Polar Distance			Observations	Fraction of Year
				h	*m*	*s*					
36	29 Ceti	6 7	1	1	0	58 99	88	43	8 5	1	0 85
37	33 Ceti	6 3		1	3	33 56	88	16	46 1	3	0 00
38	86 Piscium 3 (1st)	6 0		1	6	37 58	83	8	38 8	2	0 77
39	1 Urs Min α (*Polaris*)	2 0		1	9	18 30	1	24	56 6	8	0 45
40		8 1	2	1	17	0 19	96	31	26 3	2	0 87
41	45 Ceti θ^1	4 0		1	17	13 51	98	53	11 6	6	0 45
42		7 6	1	1	18	53 11	151	20	23 0	1	0 93
43		8 2	1	1	23	28 19	87	43	58 8	1	0 84
44	99 Piscium η	4 5		1	24	12 55	75	21	24 9	10	0 62
45		8 6	1	1	25	44 66	150	21	41 4	1	0 86
46	514 Taylor	6 1	2	1	28	33 59	73	15	51 3	2	0 92
47		9 0	1	1	29	1 31	150	42	35 1	1	0 93
48		8 0	1	1	31	23 00	130	52	17 8	1	0 89
49	α Eridani (*Achernar*)	1 0		1	32	38 92	147	55	45 6	3	0 92
50	106 Piscium ν	4 7		1	34	21 29	85	12	7 6	6	0 88
51	503 Lacaille	7 7	1	1	35	42 98	151	41	18 8	1	0 85
52	110 Piscium o	4 7		1	38	12 78	81	31	42 7	4	0 86
53		9 1	1	1	38	33 55	152	2	52 8	1	0 94
54	516 Lacaille	7 0	2	1	39	58 39	151	42	9 2	2	0 88
55		9 4	1	1	46	9 24	148	57	57 1	1	0 85
56	~~V Piscium Var. 5~~	10 0	1	1	47	7 59	81	53	9 4	1	0 91
57	6 Arietis β	2 7		1	47	7 90	69	51	31 7	7	0 88
58		9 3	2	1	48	32 81	150	5	13 5	2	0 89
59	582 Lacaille	8 1	1	1	50	54 77	145	44	21 5	1	0 94
60	593 Lacaille	8 0		1	52	2 53	149	8	13 6	1	0 01
61		9 0	2	1	54	52 52	130	55	41 8	2	0 85
62	673 Taylor	6 0	1	1	56	15 31	72	24	8 3	1	0 86
63		9 3	2	1	59	23 52	150	2	31 5	2	0 89
64	13 Arietis α	2 0		1	59	30 67	67	10	58 2	7	0 89
65	697 Taylor	6 7	1	2	1	45 88	145	43	57 4	1	0 01
66		9 3	2	2	1	55 01	130	2	28 3	2	0 81
67	677 Lacaille	8 0	1	2	6	55 77	149	47	35 4	1	0 81
68		9 7	1	2	6	58 76	148	39	29 4	1	0 82
69	754 Taylor	8 9	2	2	9	11 75	147	58	53 7	2	0 46
70	67 Ceti	6 0		2	10	12 05	97	3	2 8	7	0 91

37 —Used with Mars in opposition in 1862 for investigation of the constant of Solar Parallax

~~56. V Piscium Var. 5. Supposed to vary between 8th and 9th magnitude.~~