

RESULTS
OF
OBSERVATIONS OF THE FIXED STARS
MADE WITH THE
MERIDIAN CIRCLE
AT THE
GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1874, 1875, AND 1876

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

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OFFICIATING GOVERNMENT ASTRONOMER AT MADRAS

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INTRODUCTION.

The present volume deals with the Meridian Circle Observations made in the years 1874-75-76. The Observers were Moottoosawmy Pillay (M) and a new Observer P. Ragavachari (R) who is now First Observatory Assistant. A number of observations were also made by another observer (G) but the whole of these have had to be rejected. During these three years a comparatively small number of observations were made and I gather from the Annual Administration Reports that the reason for this was that the staff was chiefly employed in bringing up arrears of reductions. It seems, too, that the intention was to confine the Catalogue to the stars that had been observed up to that time. In 1877, however, it was resolved to increase the number of stars observed so that the next volume will deal with 9,637 observations and the volume for 1880-81-82 with 9,267 observations. A final volume will contain the 4,052 observations made between 1883 and 1887, when the work was closed.

During the years dealt with in this volume no change was made either in the instrument or in the methods of reduction.

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Jan. 1	M	- 5.8	- 0.4	- 0.11	+ 0.18	+ 0.04	+ 0.31	34 and 115 R. P. L.
3	"	- 7.8	- 0.4	- 0.04	+ 0.15	+ 0.01	+ 0.43	116 R. P. L. and η Tauri.
5	"	- 7.6	- 0.4	- 0.06	+ 0.14	- 0.02	+ 0.29	42 and 116 R. P. L.
6	"	- 7.4	- 0.4	- 0.07	+ 0.18	+ 0.01	+ 0.26	
7	"	- 7.8	- 0.4	- 0.06	+ 0.15	- 0.02	+ 0.23	26 and 115 R. P. L.
8	"	- 8.4	- 0.4	- 0.11	+ 0.18	0.00	+ 0.36	111 R. P. L. and ϵ Tauri.
9	"	- 9.2	- 0.4	- 0.12	+ 0.14	- 0.02	+ 0.38	
10	"	- 9.6	- 0.4	- 0.04	+ 0.15	+ 0.02	+ 0.41	111 R. P. L. and η Tauri.
12	"	- 10.3	- 0.4	- 0.09	+ 0.09	- 0.03	+ 0.36	45 and 116 R. P. L.
13	R	- 9.6	- 0.4	- 0.10	+ 0.13	+ 0.02	+ 0.44	
14	M	- 11.7	- 0.4	+ 0.03	+ 0.14	+ 0.02	+ 0.53	34 and 111 R. P. L.
15	"	- 11.1	- 0.4	+ 0.02	+ 0.07	- 0.01	+ 0.28	42 and 111 R. P. L.
16	"	- 12.0	- 0.4	+ 0.11	+ 0.12	+ 0.02	+ 0.29	42 and 111 R. P. L.
17	"	- 11.8	- 0.4	+ 0.18	+ 0.07	- 0.01	+ 0.32	42 R. P. L. & 2293 Redhill.
19	"	- 11.4	- 0.4	- 0.09	+ 0.09	- 0.03	+ 0.31	42 R. P. L. & 2293 Redhill.
20	M & R	- 12.5	- 0.4	0.00	+ 0.12	- 0.03	+ 0.33	42 R. P. L. & 2293 Redhill.
21	M	- 12.2	- 0.4	+ 0.06	+ 0.12	- 0.03	+ 0.29	42 R. P. L. & 2293 Redhill.
22	"	- 11.5	- 0.4	+ 0.05	+ 0.16	0.00	+ 0.45	34 R. P. L. and α Eridani.
23	"	- 11.8	- 0.4	+ 0.13	+ 0.17	- 0.02	+ 0.28	42 R. P. L. & 2293 Redhill.
24	"	- 12.0	- 0.4	+ 0.17	+ 0.17	- 0.02	+ 0.29	42 R. P. L. & 2293 Redhill.
26	"	- 12.1	- 0.4	- 0.05	+ 0.16	- 0.03	+ 0.17	42 R. P. L. & 24 Urs. Min.
27	R	- 12.2	- 0.4	- 0.07	+ 0.19	+ 0.01	+ 0.41	43 R. P. L. & 2293 Redhill.
28	"	- 11.8	- 0.4	+ 0.13	+ 0.16	- 0.01	+ 0.35	2293 Redhill and α Aurige.
29	"	- 12.7	- 0.4	+ 0.12	+ 0.18	+ 0.01	+ 0.36	43 R. P. L. & 2293 Redhill.
30	"	- 12.9	- 0.4	+ 0.12	+ 0.20	+ 0.03	+ 0.37	43 R. P. L. & 2293 Redhill.
31	"	- 12.3	- 0.4	+ 0.15	+ 0.18	+ 0.01	+ 0.24	43 and 114 R. P. L.
Feb. 2	"	- 13.1	- 0.2	+ 0.09	+ 0.18	+ 0.01	+ 0.32	43 and 116 R. P. L.
3	"	- 13.1	- 0.2	+ 0.11	+ 0.17	0.00	+ 0.36	45 R. P. L. & 24 Urs. Min.
4	"	- 12.7	- 0.2	+ 0.18	+ 0.18	0.00	+ 0.29	24 Urs. Min. and β Tauri.
5	"	- 12.9	- 0.2	+ 0.13	+ 0.17	0.00	+ 0.36	45 R. P. L. & 24 Urs. Min.
6	"	- 12.7	- 0.2	+ 0.17	+ 0.19	+ 0.01	+ 0.38	45 R. P. L. & 24 Urs. Min.
7	"	- 12.3	- 0.2	+ 0.25	+ 0.20	0.00	+ 0.28	49 R. P. L. & 24 Urs. Min.
9	"	- 13.0	- 0.2	+ 0.19	+ 0.18	0.00	+ 0.38	49 R. P. L. and 24 Cephei.
10	"	- 12.6	- 0.2	+ 0.13	+ 0.19	0.00	+ 0.37	69 R. P. L. and 24 Cephei.
11	"	- 13.9	- 0.2	+ 0.16	+ 0.20	- 0.01	- 0.01	24 Cephei and α Aurige.
12	"	- 13.0	- 0.2	+ 0.25	+ 0.21	+ 0.01	+ 0.43	24 Cephei and β Tauri.
13	"	- 13.2	- 0.2	+ 0.09	+ 0.19	- 0.01	0.00	
14	"	- 13.6	- 0.2	+ 0.05	+ 0.21	0.00	+ 0.04	
16	"	- 13.6	- 0.2	+ 0.01	+ 0.19	0.00	+ 0.11	
18	"	- 13.4	- 0.2	+ 0.04	+ 0.18	- 0.01	+ 0.13	
19	"	- 13.5	- 0.2	+ 0.05	+ 0.19	- 0.01	+ 0.21	
20	"	- 13.3	- 0.2	0.00	+ 0.19	- 0.01	+ 0.25	60 and 150 R. P. L.
21	"	- 13.4	- 0.2	+ 0.02	+ 0.18	- 0.01	+ 0.16	72 and 150 R. P. L.
23	"	- 14.3	- 0.2	+ 0.07	+ 0.18	0.00	+ 0.26	72 and 143 R. P. L.
24	"	- 13.1	- 0.2	+ 0.10	+ 0.18	0.00	+ 0.27	72 and 143 R. P. L.
25	"	- 13.7	- 0.2	+ 0.05	+ 0.16	- 0.01	+ 0.13	69 and 151 R. P. L.
26	"	- 14.0	- 0.2	+ 0.03	+ 0.17	- 0.01	+ 0.18	
27	"	- 13.7	- 0.2	+ 0.09	+ 0.17	0.00	+ 0.24	
28	"	- 13.7	- 0.2	+ 0.14	+ 0.18	+ 0.01	+ 0.30	60 and 151 R. P. L.
Mar. 2	M	- 14.2	...	+ 0.14	+ 0.19	+ 0.02	+ 0.13	70 R. P. L. and 24 Cephei.
3	"	- 15.0	...	+ 0.12	+ 0.20	+ 0.01	+ 0.32	70, 143 and 151 R. P. L.
4	"	- 15.1	- 0.4	+ 0.23	+ 0.17	- 0.02	+ 0.25	70 and 151 R. P. L. [Min.
5	"	- 14.7	- 0.4	+ 0.18	+ 0.13	- 0.05	+ 0.26	72, 143, 153 R. P. L. & λ Urs.
6	"	- 16.1	- 0.4	- 0.01	+ 0.17	- 0.01	+ 0.30	79, 143 and 151 R. P. L. and λ Ursae Minoris.
7	R	- 13.5	- 0.4	+ 0.01	+ 0.21	+ 0.04	+ 0.22	79 R. P. L. & 24 Cephei.

P. Bagavacharry taken as zero of Personal Equation from January 1st, instead of N. R. Pogson, assuming until further determinations. N. R. Pogson—0.30;—C. Ragoonathacharry—0.68; and Moottoosawmy Pillay—0.43.

INTRODUCTION.

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Mar. 9	M	-14.0	-0.4	+0.23	+0.31	+0.04	+0.36	79 and 153 R. P. L.
10	"	-15.3	-0.4	+0.21	+0.29	+0.03	+0.29	79 and 151 R. P. L.
11	"	-15.4	-0.4	+0.07	+0.22	-0.01	+0.24	79 and 153 R. P. L.
12	R	-13.9	-0.4	+0.04	+0.23	0.00	+0.24	79 R.P.L. and 24 Cephei.
13	"	-14.5	-0.4	+0.16	+0.23	+0.01	+0.24	79 R.P.L. and 24 Cephei.
14	"	-14.2	-0.4	+0.19	+0.21	0.00	+0.22	87 and 153 R. P. L.
16	"	-13.9	-0.4	+0.16	+0.22	0.00	+0.29	87 and 143 R. P. L.
17	"	-14.6	-0.4	+0.16	+0.21	0.00	+0.30	87 and 143 R. P. L.
19	"	-14.9	-0.4	+0.15	+0.24	-0.01	+0.25	87 and 153 R. P. L.
20	"	-14.8	-0.4	+0.16	+0.27	0.00	+0.29	87 and 153 R. P. L.
21	"	-14.9	-0.4	+0.13	+0.28	-0.01	+0.25	10 and 90 R. P. L.
23	"	-13.7	-0.4	+0.06	+0.33	0.00	+0.29	90 and 153 R. P. L.
24	"	-14.3	-0.4	+0.08	+0.32	-0.01	+0.30	
25	"	-13.7	-0.4	+0.09	+0.34	0.00	+0.31	
27	"	-14.9	-0.4	+0.11	+0.32	0.00	+0.32	
28	"	-15.1	-0.4	+0.14	+0.28	-0.01	+0.32	
30	"	-14.1	-0.4	+0.23	+0.32	-0.01	+0.33	153 R. P. L. and 7 Cancri.
31	"	-13.5	-0.4	+0.03	+0.33	-0.01	+0.37	98 and 18 R. P. L.
Apl. 1	M	-15.2	-0.4	-0.15	+0.42	+0.03	+0.38	
4	R	-14.0	-0.4	+0.17	+0.33	0.00	+0.42	98 and 153 R. P. L.
6	"	-13.7	-0.4	+0.20	+0.36	+0.01	+0.40	98 and 153 R. P. L.
8	"	-13.1	-0.4	+0.09	+0.32	0.00	+0.41	98 and 153 R. P. L.
9	"	-14.6	-0.4	+0.09	+0.31	+0.01	+0.36	
11	"	-14.0	-0.4	+0.15	+0.34	+0.01	+0.33	98 and 18 R. P. L.
13	"	-14.8	-0.4	+0.25	+0.37	+0.01	+0.34	98 and 18 R. P. L.
14	"	-14.8	-0.4	+0.25	+0.36	-0.01	+0.33	98 R. P. L. and Polaris.
15	"	-14.5	-0.4	+0.27	+0.33	+0.02	+0.36	98 and 18 R. P. L.
16	"	-14.1	-0.4	+0.27	+0.38	+0.02	+0.35	98 and 18 R. P. L.
17	"	-14.0	-0.4	+0.17	+0.40	+0.01	+0.35	98 and 18 R. P. L.
20	M	-15.8	-0.4	+0.03	+0.43	-0.01	+0.35	108 and 14 R. P. L.
21	"	-15.1	-0.4	+0.05	+0.49	+0.04	+0.38	101 and 10 R. P. L.
22	O R	-13.6	-0.4	+0.05	+0.47	+0.02	+0.38	
23	R	-15.2	-0.4	+0.04	+0.40	+0.03	+0.38	101 and 10 R. P. L.
24	"	-15.2	-0.4	+0.19	+0.44	+0.05	+0.43	101 and 10 R. P. L.
25	"	-14.6	-0.4	+0.23	+0.45	+0.03	+0.43	
27	"	-13.6	-0.4	+0.05	+0.43	+0.03	+0.44	101 and 10 R. P. L.
29	"	-14.6	-0.4	+0.10	+0.44	+0.01	+0.43	
30	"	-16.2	-0.4	+0.09	+0.44	+0.02	+0.42	
May 1	G	-14.6	+0.3	+0.02	+0.44	0.00	+0.41	
2	"	-18.7	+0.3	+0.31	+0.41	-0.04	+0.40	
7	"	-8.4	+0.3	-0.25	+0.30	+0.05	+0.37	
8	"	-7.9	+0.3	+0.03	+0.24	+0.01	+0.36	35 R. P. L. and β Leonis.
9	"	-7.1	+0.3	+0.26	+0.26	+0.02	+0.17	
11	"	-7.1	+0.3	-0.19	+0.25	+0.05	-0.20	111 and 14 R. P. L.
12	"	-7.0	+0.3	+0.04	+0.29	+0.02	+0.40	114 and 33 R. P. L.
13	"	-7.2	+0.3	+0.36	+0.35	+0.04	+0.26	
15	"	-9.1	+0.3	+0.41	+0.31	-0.01	-0.01	108 and 33 R. P. L.
16	"	-7.0	+0.3	+0.36	+0.36	-0.02	+0.10	
18	"	-6.3	+0.3	+0.26	+0.39	-0.01	+0.33	90, 14 and 18 R. P. L.
19	R	-6.6	-0.6	+0.19	+0.39	+0.03	+0.43	101 and 10 R. P. L.
20	"	-7.0	-0.6	+0.15	+0.36	+0.00	+0.40	
21	"	-7.2	-0.6	+0.18	+0.39	+0.01	+0.38	101 and 10 R. P. L.
22	"	-7.8	-0.6	+0.07	+0.39	+0.01	+0.39	101 and 10 R. P. L.
23	"	-7.6	-0.6	+0.06	+0.38	+0.01	+0.38	
25	"	-7.8	-0.6	+0.22	+0.40	+0.02	+0.36	
26	"	-8.0	-0.6	+0.22	+0.40	+0.02	+0.35	

+0.34
+0.37

May 4-6 fellone with 7.22 inches of rain

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 28	R	- 8.3	- 0.6	+ 0.15	+ 0.40	+ 0.02	+ 0.34	10 R. P. L. and γ Bootis.
29	"	- 8.8	- 0.6	+ 0.16	+ 0.37	+ 0.01	+ 0.23	101 and 10 R. P. L.
30	"	- 9.0	- 0.6	+ 0.12	+ 0.39	+ 0.01	+ 0.23	90 and 12 R. P. L.
June 3	M	- 9.4	- 0.3	+ 0.05	+ 0.49	+ 0.04	+ 0.40	
4	"	- 8.5	- 0.3	+ 0.09	+ 0.47	+ 0.05	+ 0.44	108, 12 and 18 R. P. L.
5	"	- 8.8	- 0.3	+ 0.12	+ 0.46	+ 0.02	+ 0.46	108 and 12 R. P. L.
6	"	- 9.1	- 0.3	+ 0.08	+ 0.48	+ 0.05	+ 0.45	
8	"	- 7.1	- 0.3	+ 0.11	+ 0.42	+ 0.03	+ 0.43	108 and 18 R. P. L.
9	"	- 6.9	- 0.3	+ 0.16	+ 0.39	0.00	+ 0.27	108 and 14 R. P. L.
11	"	- 7.7	- 0.3	+ 0.11	+ 0.38	- 0.01	+ 0.29	
12	"	- 6.5	- 0.3	+ 0.10	+ 0.41	0.00	+ 0.31	
17	"	- 6.5	- 0.3	+ 0.17	+ 0.35	- 0.02	+ 0.37	
18	"	- 6.4	- 0.3	+ 0.10	+ 0.39	- 0.02	+ 0.33	
19	"	- 7.4	- 0.3	+ 0.03	+ 0.42	0.00	+ 0.40	
24	"	- 8.4	- 0.3	+ 0.11	+ 0.47	+ 0.01	+ 0.46	
29	"	- 9.1	- 0.3	+ 0.09	+ 0.44	+ 0.02	+ 0.52	Polaris and ϵ Bootis.
July 1	R	- 10.7	- 0.5	+ 0.09	+ 0.39	+ 0.01	+ 0.49	
2	"	- 11.3	- 0.5	+ 0.13	+ 0.37	+ 0.02	+ 0.47	43 R. P. L. & 24 Urs. Min.
3	"	- 10.9	- 0.5	+ 0.18	+ 0.38	+ 0.02	+ 0.46	
4	"	- 10.7	- 0.5	+ 0.19	+ 0.37	+ 0.02	+ 0.46	
7	"	- 11.9	- 0.5	+ 0.18	+ 0.36	+ 0.01	+ 0.43	
9	"	- 11.0	- 0.5	+ 0.19	+ 0.37	- 0.01	+ 0.42	34 R. P. L. and ϵ Bootis.
14	"	- 7.6	- 0.5	+ 0.12	+ 0.28	0.00	+ 0.49	131 R. P. L. & θ Ophiuchi.
15	"	- 7.3	- 0.5	+ 0.16	+ 0.33	+ 0.01	+ 0.44	40 R. P. L. and δ Urs. Min.
16	"	- 4.2	- 0.5	+ 0.14	+ 0.32	+ 0.01	+ 0.45	
17	"	+ 1.1	- 0.5	+ 0.08	+ 0.32	+ 0.02	+ 0.47	
20	"	+ 0.8	- 0.5	+ 0.14	+ 0.32	+ 0.02	+ 0.51	43 R. P. L. and ϵ Urs. Min.
21	"	- 1.8	- 0.5	+ 0.07	+ 0.29	+ 0.01	+ 0.51	
22	"	- 2.4	- 0.5	+ 0.01	+ 0.33	+ 0.04	+ 0.51	
29	"	- 2.3	- 0.5	+ 0.20	+ 0.34	+ 0.05	+ 0.49	
30	"	- 1.9	- 0.5	+ 0.12	+ 0.35	+ 0.04	+ 0.49	131 R. P. L. and 51 Cephei.
31	"	- 2.4	- 0.5	0.00	+ 0.32	+ 0.03	+ 0.51	
Aug. 3	M	- 1.5	+ 0.5	+ 0.08	+ 0.46	+ 0.06	+ 0.55	δ Urs. Min. and 51 Cephei.
6	"	- 2.2	+ 0.5	+ 0.04	+ 0.32	+ 0.03	+ 0.50	
7	"	- 2.0	+ 0.5	+ 0.08	+ 0.40	+ 0.01	+ 0.49	
8	"	- 2.1	+ 0.5	+ 0.15	+ 0.41	+ 0.03	+ 0.47	
11	"	- 3.3	+ 0.5	+ 0.12	+ 0.37	+ 0.01	+ 0.42	λ Urs. Min. & δ Ophiuchi.
12	"	- 4.2	+ 0.5	+ 0.07	+ 0.33	+ 0.01	+ 0.42	
13	"	- 4.4	+ 0.5	+ 0.18	+ 0.46	+ 0.06	+ 0.42	
14	"	- 3.8	+ 0.5	+ 0.20	+ 0.36	0.00	+ 0.42	
15	"	- 4.0	+ 0.5	+ 0.10	+ 0.40	+ 0.01	+ 0.43	
18	"	- 4.0	+ 0.5	+ 0.06	+ 0.40	+ 0.01	+ 0.43	
19	"	- 3.1	+ 0.5	+ 0.09	+ 0.41	+ 0.02	+ 0.43	
21	"	- 4.7	+ 0.5	+ 0.09	+ 0.31	- 0.02	+ 0.44	
22	"	- 4.0	+ 0.5	+ 0.04	+ 0.36	0.00	+ 0.44	
24	"	- 5.5	+ 0.5	+ 0.13	+ 0.39	+ 0.03	+ 0.44	70 R. P. L. and δ Urs. Min.
25	"	- 4.6	+ 0.5	+ 0.06	+ 0.41	+ 0.02	+ 0.44	
26	"	- 4.8	+ 0.5	- 0.02	+ 0.39	+ 0.02	+ 0.44	
27	"	- 5.0	+ 0.5	+ 0.07	+ 0.44	+ 0.02	+ 0.43	
28	"	- 7.2	+ 0.5	+ 0.13	+ 0.43	+ 0.03	+ 0.43	43 R. P. L. & ϵ Urs. Min.
29	"	- 6.1	+ 0.5	+ 0.10	+ 0.40	+ 0.01	+ 0.42	43 R. P. L. & λ Urs. Min.
31	"	- 5.9	+ 0.5	+ 0.02	+ 0.42	+ 0.02	+ 0.41	
Sep. 2	R	- 4.7	+ 0.1	+ 0.06	+ 0.33	+ 0.01	+ 0.49	131 and 60 R. P. L.
3	"	- 5.6	+ 0.1	+ 0.11	+ 0.33	+ 0.02	+ 0.46	
4	"	- 5.0	+ 0.1	+ 0.11	+ 0.34	+ 0.02	+ 0.44	δ Urs. Min. and 60 R. P. L.

+ 0.42
43
43
46
46
47
49

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Sep. 5	R	- 5.1	+ 0.1	+ 0.07	+ 0.34	+ 0.02	+ 0.43	δ Urs. Min. and 60 R. P. L.
7	"	- 3.3	+ 0.1	+ 0.09	+ 0.32	+ 0.03	+ 0.49	60 R. P. L. and (Aquilae.
10	"	- 2.4	+ 0.1	+ 0.10	+ 0.30	+ 0.01	+ 0.46	49 and 131 R. P. L.
12	"	- 1.4	+ 0.1	+ 0.01	+ 0.27	0.00	+ 0.29	131 and 45 R. P. L.
14	"	- 1.2	+ 0.1	+ 0.07	+ 0.27	+ 0.02	+ 0.50	131 and 69 R. P. L.
15	"	- 1.0	+ 0.1	+ 0.04	+ 0.26	+ 0.01	+ 0.29	131 and 45 R. P. L.
16	"	- 1.2	+ 0.1	+ 0.06	+ 0.27	+ 0.02	+ 0.45	131 and 49 R. P. L.
17	"	- 2.1	+ 0.1	+ 0.06	+ 0.27	+ 0.03	+ 0.43	143 and 49 R. P. L.
19	"	- 2.1	+ 0.1	+ 0.03	+ 0.26	+ 0.01	+ 0.49	
21	"	- 1.2	+ 0.1	- 0.16	+ 0.29	+ 0.03	+ 0.54	151 and 69 R. P. L.
24	"	- 2.2	+ 0.1	- 0.34	+ 0.27	+ 0.01	+ 0.44	
26	"	- 2.6	+ 0.1	- 0.21	+ 0.30	+ 0.03	+ 0.35	143 and 49 R. P. L.
28	"	- 2.3	+ 0.1	- 0.14	+ 0.27	+ 0.02	+ 0.42	
29	"	- 2.3	+ 0.1	- 0.07	+ 0.29	+ 0.03	+ 0.44	
30	"	- 2.8	+ 0.1	0.00	+ 0.28	+ 0.01	+ 0.46	
Oct. 3	M	- 4.6	0.0	- 0.09	+ 0.39	+ 0.06	+ 0.52	143 and 69 R. P. L.
5	"	- 3.7	0.0	- 0.05	+ 0.40	+ 0.03	+ 0.47	150 and 49 R. P. L.
6	"	- 4.6	0.0	- 0.09	+ 0.36	+ 0.02	+ 0.46	150 and 45 R. P. L.
7	"	- 4.9	0.0	- 0.05	+ 0.38	+ 0.02	+ 0.50	153, 98 and 49 R. P. L.
8	"	- 6.8	0.0	- 0.11	+ 0.33	- 0.01	+ 0.52	
9	"	- 5.4	0.0	- 0.12	+ 0.43	+ 0.04	+ 0.53	
10	"	- 5.4	0.0	- 0.07	+ 0.37	+ 0.02	+ 0.55	10 and 90 R. P. L.
12	"	- 3.4	0.0	- 0.14	+ 0.40	+ 0.04	+ 0.58	10, 90 and 49 R. P. L.
13	"	- 3.4	0.0	- 0.09	+ 0.42	+ 0.03	+ 0.58	150 R.P.L. & ρ Capricorni.
14	"	- 5.0	0.0	- 0.10	+ 0.35	+ 0.02	+ 0.55	150 R.P.L. & ρ Capricorni.
15	"	- 4.6	0.0	- 0.01	+ 0.39	+ 0.05	+ 0.49	10, 150 49, and 79 R. P. L.
16	"	- 4.1	0.0	- 0.06	+ 0.38	+ 0.03	+ 0.56	10, 151 69, and 70 R. P. L.
17	"	- 3.0	0.0	- 0.15	+ 0.39	+ 0.04	+ 0.59	151, 49 and 69 R. P. L.
19	"	- 3.1	0.0	- 0.07	+ 0.34	+ 0.01	+ 0.58	
21	"	- 1.9	0.0	+ 0.04	+ 0.35	+ 0.02	+ 0.57	
22	"	- 2.2	0.0	+ 0.06	+ 0.32	+ 0.01	+ 0.56	
27	"	+ 2.3	0.0	- 0.27	+ 0.38	+ 0.04	+ 0.54	
28	"	+ 2.2	0.0	- 0.09	+ 0.39	+ 0.01	+ 0.53	26 and 108 R. P. L.
29	"	+ 1.7	0.0	- 0.13	+ 0.34	- 0.01	+ 0.51	151, 10 and 79 R. P. L.
30	"	+ 1.6	0.0	- 0.21	+ 0.38	+ 0.01	+ 0.56	10 and 89 R. P. L.
31	"	+ 1.5	0.0	- 0.16	+ 0.38	+ 0.03	+ 0.67	151, 14, 69 and 70 R. P. L.
Nov. 2	R	+ 1.8	- 0.2	- 0.21	+ 0.28	+ 0.03	+ 0.74	14, 153 and 90 R. P. L.
3	"	- 1.3	- 0.2	- 0.24	+ 0.19	+ 0.02	+ 0.49	10 and 79 R. P. L.
4	M	- 1.4	- 0.2	- 0.33	+ 0.24	- 0.04	+ 0.45	10, 153, 69 and 70 R. P. L.
5	"	- 2.4	- 0.2	- 0.33	+ 0.29	- 0.01	+ 0.53	
7	R	- 0.6	- 0.2	- 0.35	+ 0.24	+ 0.03	+ 0.69	
9	"	- 1.3	- 0.2	- 0.18	+ 0.28	+ 0.03	+ 0.34	14 R. P. L. and θ Aquarii.
10	"	- 2.0	- 0.2	- 0.33	+ 0.22	- 0.01	+ 0.34	79 R. P. L. and η Aquarii.
11	"	- 1.5	- 0.2	- 0.48	+ 0.22	+ 0.03	+ 0.49	
12	"	- 1.3	- 0.2	- 0.37	+ 0.24	+ 0.01	+ 0.64	14, 79, 90 and 168 R. P. L.
13	"	- 3.0	- 0.2	- 0.36	+ 0.21	0.00	+ 0.55	14, 153, 79 and 90 R. P. L.
14	"	- 2.5	- 0.2	- 0.36	+ 0.20	+ 0.02	+ 0.66	14, 79 and 90 R. P. L.
17	"	- 2.9	- 0.2	- 0.34	+ 0.21	+ 0.02	+ 0.58	14 and 98 R. P. L.
18	C R	- 3.1	- 0.2	- 0.62	+ 0.26	+ 0.07	+ 0.72	14 and 98 R. P. L.
19	M	- 2.4	- 0.2	- 0.59	+ 0.30	+ 0.05	+ 0.69	14 and 98 R. P. L.
20	R	- 2.7	- 0.2	- 0.65	+ 0.22	+ 0.04	+ 0.62	14, 87 and 90 R. P. L.
21	"	- 2.4	- 0.2	- 0.96	+ 0.23	+ 0.03	+ 0.64	14, 87 and 90 R. P. L.
25	"	- 2.1	- 0.2	- 1.05	+ 0.25	+ 0.04	+ 0.66	
27	"	- 0.5	- 0.2	- 1.04	+ 0.19	+ 0.04	+ 0.67	
28	"	- 0.7	- 0.2	- 1.05	+ 0.24	+ 0.05	+ 0.67	
30	"	+ 1.7	- 0.2	- 0.88	+ 0.28	+ 0.04	+ 0.68	

INTRODUCTION.

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Dec. 1	R	+ 2.8	- 0.2	- 0.93	+ 0.27	+ 0.05	+ 0.08	
2	"	+ 1.2	- 0.2	- 0.74	+ 0.24	+ 0.05	+ 0.09	14 and 99 R. P. L.
3	"	+ 0.7	- 0.2	- 0.66	+ 0.26	+ 0.05	+ 0.50	98 R. P. L. and γ Pegasi.
4	"	+ 1.3	- 0.2	- 1.03	+ 0.21	+ 0.04	+ 0.50	18 and 90 R. P. L.
5	M	+ 1.6	- 0.9	- 1.06	+ 0.20	+ 0.03	+ 0.44	34 and 115 R. P. L.
7	"	- 0.1	- 0.9	- 0.88	+ 0.15	+ 0.01	+ 0.44	
8	"	+ 1.0	- 0.9	- 0.91	+ 0.07	+ 0.02	+ 0.44	
13	"	+ 1.5	- 0.9	- 0.83	+ 0.30	+ 0.03	+ 0.45	
15	"	+ 4.6	- 0.9	- 0.90	+ 0.38	- 0.01	+ 0.46	26, 98 and 115 R. P. L.
16	"	+ 4.7	- 0.9	- 0.80	+ 0.39	+ 0.02	+ 0.44	26 and 98 R. P. L.
17	"	+ 5.1	- 0.9	- 0.81	+ 0.35	+ 0.02	+ 0.37	26 and 115 R. P. L.
18	"	+ 4.1	- 0.9	- 0.93	+ 0.36	+ 0.03	+ 0.37	26, 98 and 115 R. P. L.
19	"	+ 3.6	- 0.9	- 0.88	+ 0.32	+ 0.05	+ 0.43	26 and 98 R. P. L.
22	R	+ 3.3	- 0.9	- 0.81	+ 0.19	+ 0.05	+ 0.46	
25	"	+ 1.7	- 0.9	- 0.90	+ 0.05	- 0.05	+ 0.49	34 and 111 R. P. L.
26	"	+ 1.7	- 0.9	- 0.87	+ 0.14	+ 0.02	+ 0.40	
28	M	+ 0.6	- 0.9	- 0.75	+ 0.19	- 0.01	+ 0.23	35 R. P. L. and ϵ Urs. Min.

+ 0.50
+ 0.50

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 2	R	- 2.9	- 0.9	- 0.75	+ 0.20	+ 0.04	+ 0.44	34 and 115 R. P. L.
5	"	- 2.7	- 0.9	- 0.80	+ 0.18	+ 0.02	+ 0.36	33 and 115 R. P. L.
6	"	- 4.4	- 0.9	- 0.79	+ 0.20	+ 0.04	+ 0.39	34 and 115 R. P. L.
8	"	- 2.7	- 0.9	- 0.75	+ 0.19	+ 0.04	+ 0.38	26 and 114 R. P. L.
11	"	- 4.9	- 0.9	- 0.75	+ 0.16	+ 0.03	+ 0.46	34 and 115 R. P. L.
12	"	- 3.9	- 0.9	- 0.69	+ 0.18	+ 0.04	+ 0.41	
13	"	- 4.3	- 0.9	- 0.71	+ 0.16	+ 0.02	+ 0.37	35 and 114 R. P. L.
14	"	- 4.5	- 0.9	- 0.75	+ 0.17	+ 0.03	+ 0.39	
16	"	- 6.6	- 0.9	- 0.75	+ 0.19	+ 0.04	+ 0.44	33 and 114 R. P. L.
18	"	- 8.7	- 0.9	- 0.73	+ 0.21	+ 0.04	+ 0.31	35 and 114 R. P. L.
20	"	- 7.3	- 0.9	- 0.64	+ 0.21	+ 0.03	+ 0.33	34 and 111 R. P. L.
21	"	- 8.6	- 0.9	- 0.56	+ 0.21	+ 0.04	+ 0.32	
22	"	- 8.5	- 0.9	- 0.56	+ 0.21	+ 0.03	+ 0.30	
23	"	- 9.6	- 0.9	- 0.56	+ 0.20	+ 0.02	+ 0.29	34 R. P. L. and ϵ^1 Eridani.
26	"	- 9.6	- 0.9	- 0.59	+ 0.22	+ 0.01	+ 0.26	
27	"	- 10.6	- 0.9	- 0.63	+ 0.22	+ 0.02	+ 0.25	
28	"	- 10.1	- 0.9	- 0.64	+ 0.24	+ 0.04	+ 0.24	35 and 115 R. P. L.
29	"	- 9.5	- 0.9	- 0.58	+ 0.21	+ 0.04	+ 0.25	+ 0.24
30	"	- 9.7	- 0.9	- 0.48	+ 0.24	+ 0.04	+ 0.12	42 R. P. L. and ϵ Urs. Min. + 0.24
Feb. 1	M	- 10.8	0.0	- 0.52	+ 0.35	+ 0.03	+ 0.29	+ 0.25
2	"	- 11.4	0.0	- 0.62	+ 0.31	+ 0.04	+ 0.25	51 Cephei and 131 R. P. L.
3	"	- 11.7	0.0	- 0.59	+ 0.33	+ 0.03	+ 0.26	β Tauri and δ Urs. Min.
4	"	- 11.7	0.0	- 0.53	+ 0.28	+ 0.06	+ 0.24	
5	"	- 11.1	0.0	- 0.51	+ 0.27	+ 0.03	+ 0.22	β Tauri and δ Urs. Min.
6	"	- 11.8	0.0	- 0.47	+ 0.26	+ 0.04	+ 0.22	
8	"	- 11.0	0.0	- 0.53	+ 0.23	+ 0.02	+ 0.22	β Tauri and δ Urs. Min.
9	"	- 10.6	0.0	- 0.49	+ 0.26	+ 0.03	+ 0.24	
10	"	- 11.9	0.0	- 0.49	+ 0.22	+ 0.01	+ 0.25	
11	"	- 12.0	0.0	- 0.48	+ 0.21	+ 0.01	+ 0.27	51 Cephei & 24 Urs. Min.
12	"	- 13.0	0.0	- 0.48	+ 0.22	0.00	+ 0.24	
13	"	- 12.9	0.0	- 0.36	+ 0.18	+ 0.01	+ 0.22	51 Cephei & 24 Urs. Min.
15	"	- 13.1	0.0	- 0.49	+ 0.20	- 0.01	+ 0.20	
16	"	- 12.8	0.0	- 0.46	+ 0.25	+ 0.01	+ 0.18	
17	"	- 12.8	0.0	- 0.42	+ 0.26	+ 0.01	+ 0.17	60 and 150 R. P. L. + 0.16
18	"	- 11.9	0.0	- 0.40	+ 0.29	+ 0.02	+ 0.12	+ 0.15
19	"	- 12.6	0.0	- 0.44	+ 0.29	0.00	+ 0.09	72 and 150 R. P. L.
20	"	- 12.9	0.0	- 0.50	+ 0.30	+ 0.01	+ 0.19	90 and 158 R. P. L.
22	"	- 12.7	0.0	- 0.38	+ 0.31	+ 0.03	+ 0.22	
23	"	- 13.4	0.0	- 0.45	+ 0.30	+ 0.03	+ 0.23	90 and 158 R. P. L.
24	"	- 13.3	0.0	- 0.48	+ 0.29	+ 0.04	+ 0.22	90 and 153 R. P. L.
25	"	- 13.2	0.0	- 0.42	+ 0.30	+ 0.04	+ 0.22	90 and 153 R. P. L.
26	"	- 13.2	0.0	- 0.35	+ 0.29	+ 0.04	+ 0.21	90 and 153 R. P. L.
27	"	- 12.8	0.0	- 0.29	+ 0.30	+ 0.04	+ 0.28	Castor and Polaris.
Mar. 1	R	- 11.9	- 0.2	- 0.42	+ 0.22	+ 0.03	+ 0.31	
2	"	- 11.9	- 0.2	- 0.48	+ 0.22	+ 0.04	+ 0.32	
3	"	- 12.7	- 0.2	- 0.52	+ 0.20	+ 0.03	+ 0.34	60 and 143 R. P. L. + 0.25
4	"	- 13.2	- 0.2	- 0.54	+ 0.19	+ 0.02	+ 0.30	
5	"	- 13.4	- 0.2	- 0.47	+ 0.24	+ 0.03	+ 0.26	
6	"	- 12.8	- 0.2	- 0.44	+ 0.22	+ 0.02	+ 0.23	49 and 131 R. P. L.
8	"	- 12.7	- 0.2	- 0.58	+ 0.24	+ 0.01	+ 0.22	
9	"	- 12.8	- 0.2	- 0.59	+ 0.26	+ 0.01	+ 0.21	
10	"	- 12.4	- 0.2	- 0.53	+ 0.30	+ 0.01	+ 0.20	49 and 131 R. P. L.
11	"	- 13.4	- 0.2	- 0.55	+ 0.24	+ 0.01	+ 0.17	
12	"	- 13.2	- 0.2	- 0.58	+ 0.30	+ 0.03	+ 0.14	
13	"	- 12.5	- 0.2	- 0.52	+ 0.30	+ 0.01	+ 0.11	70 and 150 R. P. L.
15	"	- 13.2	- 0.2	- 0.44	+ 0.29	+ 0.01	+ 0.12	
16	"	- 12.6	- 0.2	- 0.49	+ 0.27	0.00	+ 0.13	

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Mar. 17	R	- 12.6	- 0.2	- 0.52	+ 0.27	- 0.01	+ 0.14	69 and 151 R. P. L.
18	"	- 12.3	- 0.2	- 0.42	+ 0.26	0.00	+ 0.14	
19	"	- 12.3	- 0.2	- 0.41	+ 0.26	+ 0.01	+ 0.14	
20	"	- 11.8	- 0.2	- 0.50	+ 0.25	0.00	+ 0.14	70 and 18 R. P. L.
22	"	- 12.5	- 0.2	- 0.52	+ 0.27	+ 0.02	+ 0.10	γ Leonis and 14 R. P. L.
23	"	- 12.6	- 0.2	- 0.53	+ 0.30	+ 0.03	+ 0.04	101 and 14 R. P. L.
24	"	- 13.3	- 0.2	- 0.59	+ 0.30	+ 0.05	+ 0.05	101 and 14 R. P. L.
25	"	- 12.9	- 0.2	- 0.55	+ 0.28	+ 0.03	+ 0.05	
26	"	- 13.0	- 0.2	- 0.58	+ 0.29	+ 0.03	+ 0.04	
27	M	- 11.9	- 0.4	- 0.57	+ 0.45	+ 0.03	+ 0.03	
29	"	- 12.2	- 0.4	- 0.40	+ 0.41	+ 0.01	0.00	
31	R	- 12.6	- 0.2	- 0.63	+ 0.31	+ 0.01	- 0.03	
Apl. 1	M	- 11.7	- 0.4	- 0.56	+ 0.46	+ 0.04	- 0.04	
2	"	- 11.1	- 0.4	- 0.34	+ 0.42	+ 0.02	- 0.05	
3	"	- 11.0	- 0.4	- 0.39	+ 0.40	+ 0.01	- 0.03	99 and 14 R. P. L.
5	"	- 10.5	- 0.4	- 0.51	+ 0.44	+ 0.03	+ 0.17	
6	"	- 9.7	- 0.4	- 0.43	+ 0.43	+ 0.03	+ 0.28	108 and 26 R. P. L.
7	"	- 11.0	- 0.4	- 0.40	+ 0.40	+ 0.01	+ 0.05	92 R. P. L. and ψ Leonis.
8	"	- 11.1	- 0.4	- 0.50	+ 0.40	+ 0.04	+ 0.23	93 R. P. L. and Polaris.
9	"	- 11.5	- 0.4	- 0.41	+ 0.41	+ 0.03	+ 0.12	92 R. P. L. and Polaris.
10	"	- 11.5	- 0.4	- 0.33	+ 0.40	+ 0.02	+ 0.15	108 R. P. L. and δ Crateris.
12	"	- 12.0	- 0.4	- 0.66	+ 0.38	0.00	+ 0.14	108 R. P. L. and Polaris.
13	"	- 11.3	- 0.4	- 0.71	+ 0.40	+ 0.01	+ 0.25	114 and 35 R. P. L.
14	"	- 10.9	- 0.4	- 0.60	+ 0.40	+ 0.01	+ 0.18	114 R. P. L. and δ Crateris.
15	"	- 11.0	- 0.4	- 0.59	+ 0.38	0.00	+ 0.18	114, 116, and 26 R. P. L.
16	"	- 10.9	- 0.4	- 0.59	+ 0.40	0.00	+ 0.10	116, 26, and 34 R. P. L.
17	"	- 10.3	- 0.4	- 0.50	+ 0.46	+ 0.05	+ 0.20	2293 Redhill; 114, 116 and 26 R. P. L.
19	"	- 11.2	- 0.4	- 0.56	+ 0.41	+ 0.02	- 0.03	2293 Redhill and 33 R.P.L.
20	"	- 10.8	- 0.4	- 0.57	+ 0.43	0.00	+ 0.08	
21	"	- 11.7	- 0.4	- 0.56	+ 0.44	+ 0.04	+ 0.18	26, 34 and 111 R. P. L. and 2293 Redhill.
22	"	- 12.3	- 0.4	- 0.56	+ 0.43	+ 0.01	+ 0.13	114 R. P. L. and β Corvi.
23	"	- 10.8	- 0.4	- 0.43	+ 0.46	+ 0.03	+ 0.10	92, 114 and 34 R. P. L.
24	"	- 11.6	- 0.4	- 0.38	+ 0.45	- 0.01	+ 0.08	114 and 34 R. P. L.
26	"	- 12.1	- 0.4	- 0.57	+ 0.44	+ 0.01	+ 0.08	93 and 33 R. P. L.
27	"	- 11.8	- 0.4	- 0.62	+ 0.52	+ 0.04	+ 0.19	115 and 34 R. P. L.
28	"	- 12.0	- 0.4	- 0.55	+ 0.52	+ 0.03	+ 0.22	
29	"	- 11.7	- 0.4	- 0.45	+ 0.54	+ 0.06	+ 0.24	93 and 34 R. P. L.
30	"	- 11.8	- 0.4	- 0.37	+ 0.48	+ 0.04	+ 0.18	33 and 93 R. P. L. and 2293 Redhill.
May 1	R	- 10.6	0.0	- 0.38	+ 0.40	+ 0.02	- 0.23	93 R. P. L. and γ Bootis.
3	"	- 12.5	0.0	- 0.72	+ 0.40	+ 0.04	+ 0.04	
4	"	- 12.0	0.0	+ 0.51	+ 0.44	+ 0.05	- 0.08	2293 Redhill and 33 R.P.L.
5	"	- 11.2	0.0	+ 0.82	+ 0.41	+ 0.02	+ 0.05	26, 33 and 92 R. P. L. and 2293 Redhill.
6	"	- 11.6	0.0	+ 0.87	+ 0.41	+ 0.03	+ 0.19	93, 114, 26 and 33 R. P. L.
7	"	- 11.6	0.0	+ 0.86	+ 0.44	+ 0.03	+ 0.20	93, 111, 114 and 26 R. P. L.
8	"	- 11.0	0.0	+ 0.85	+ 0.43	+ 0.04	+ 0.21	93, 111, 26 and 34 R. P. L.
10	"	- 10.5	0.0	+ 0.95	+ 0.47	+ 0.02	+ 0.26	93, 111 and 26 R. P. L.
11	"	- 11.1	0.0	+ 1.07	+ 0.44	+ 0.01	+ 0.23	93 R. P. L. and ζ Virginis
12	"	- 10.5	0.0	+ 1.02	+ 0.45	+ 0.02	+ 0.17	93 and 34 R. P. L. and 2293 Redhill.
13	"	- 9.7	0.0	+ 1.06	+ 0.46	+ 0.03	+ 0.20	93 and 34 R. P. L. and 2293 Redhill.
14	"	- 11.0	0.0	+ 1.16	+ 0.41	+ 0.03	+ 0.23	
15	"	- 10.4	0.0	+ 1.15	+ 0.41	+ 0.04	+ 0.25	93, 34 and 40 R. P. L. and 2293 Redhill.
17	"	- 11.3	0.0	+ 1.20	+ 0.43	+ 0.02	+ 0.24	

+ 0.22
+ 0.15
+ 0.16
+ 0.16
+ 0.16
+ 0.16
+ 0.15
+ 0.15
+ 0.15
+ 0.15
+ 0.28
+ 0.18
+ 0.074
+ 0.18
+ 0.24
+ 0.22
+ 0.21
+ 0.20

May 3.—Stopped the clock before observing to lower the pendulum cylinder two divisions of the screw and placed the 30 grain weight upon the rate shelf.
 May 4. 12h. 11m.—Changed the 30 grain weight on the weight shelf for the 20 grain weight.

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 18	R	- 10.4	0.0	+ 1.15	+ 0.42	+ 0.02	+ 0.23	114 and 40 R. P. L.
19	"	- 10.6	0.0	+ 1.03	+ 0.44	+ 0.02	+ 0.23	115 and 40 R. P. L.
20	"	- 10.8	0.0	+ 2.04	+ 0.43	+ 0.04	+ 0.25	115 and 40 R. P. L.
21	"	- 10.9	0.0	+ 0.16	+ 0.41	+ 0.02	+ 0.22	115 and 40 R. P. L.
22	"	- 10.7	0.0	+ 0.19	+ 0.41	+ 0.02	+ 0.22	115 and 43 R. P. L.
24	"	- 10.5	0.0	+ 0.22	+ 0.44	+ 0.01	+ 0.23	115 and 43 R. P. L.
25	"	- 9.5	0.0	+ 0.22	+ 0.43	+ 0.01	+ 0.23	ζ Hercules and 43 R. P. L.
26	"	- 10.2	0.0	+ 0.23	+ 0.46	+ 0.01	+ 0.23	115 and 42 R. P. L.
28	"	- 9.1	0.0	+ 0.18	+ 0.42	0.00	+ 0.26	115 and 42 R. P. L.
31	"	- 10.2	0.0	+ 0.19	+ 0.47	+ 0.03	+ 0.25	
June 1	M	- 10.0	- 1.0	+ 0.13	+ 0.52	+ 0.03	+ 0.24	
2	"	- 9.5	- 1.0	+ 0.23	+ 0.57	+ 0.04	+ 0.23	
3	"	- 10.3	- 1.0	+ 0.32	+ 0.51	- 0.01	+ 0.23	δ Urs. Min. and γ Virginis.
4	"	- 11.8	- 1.0	+ 0.14	+ 0.50	+ 0.03	+ 0.29	δ Urs. Min. and 51 Cephei.
5	"	- 10.9	- 1.0	+ 0.14	+ 0.53	+ 0.03	+ 0.29	
7	"	- 10.8	- 1.0	+ 0.33	+ 0.51	+ 0.02	+ 0.27	115 R. P. L. and α Libræ.
8	"	- 11.2	- 1.0	+ 0.23	+ 0.50	+ 0.03	+ 0.32	115 and 43 R. P. L.
9	"	- 11.0	- 1.0	+ 0.18	+ 0.50	+ 0.01	+ 0.30	115 and 35 R. P. L.
10	"	- 11.5	- 1.0	+ 0.26	+ 0.50	0.00	+ 0.29	
11	"	- 11.2	- 1.0	+ 0.32	+ 0.52	+ 0.01	+ 0.28	
12	"	- 11.3	- 1.0	+ 0.32	+ 0.48	0.00	+ 0.28	
18	"	- 12.3	- 1.0	+ 0.19	+ 0.49	+ 0.01	+ 0.23	
22	"	- 11.4	- 1.0	+ 0.19	+ 0.55	+ 0.02	+ 0.20	δ Urs. Min. and 51 Cephei.
24	"	- 12.0	- 1.0	+ 0.31	+ 0.58	+ 0.03	+ 0.22	δ Urs. Min. and Antares.
25	"	- 11.2	- 1.0	+ 0.23	+ 0.53	+ 0.02	+ 0.23	δ Urs. Min. and 51 Cephei.
26	"	- 11.3	- 1.0	+ 0.12	+ 0.58	+ 0.05	+ 0.30	δ Urs. Min. and 51 Cephei.
29	"	- 12.4	- 1.0	+ 0.19	+ 0.48	- 0.01	+ 0.20	δ Urs. Min. and 51 Cephei.
30	"	- 12.1	- 1.0	+ 0.29	+ 0.55	+ 0.04	+ 0.28	δ and 24 Ursæ Minoris, 51 Cephei, and 45 R. P. L.
July 1	R	- 11.4	0.0	+ 0.26	+ 0.48	+ 0.08	+ 0.25	
2	"	- 11.7	0.0	+ 0.15	+ 0.49	+ 0.03	+ 0.29	
5	"	- 11.9	0.0	+ 0.27	+ 0.51	+ 0.03	+ 0.28	131 and 45 R. P. L.
7	"	- 11.6	0.0	+ 0.30	+ 0.47	+ 0.01	+ 0.28	
10	"	- 12.1	0.0	+ 0.25	+ 0.41	+ 0.01	+ 0.27	
12	"	- 11.4	0.0	+ 0.29	+ 0.42	+ 0.04	+ 0.27	
14	"	- 12.3	0.0	+ 0.34	+ 0.42	+ 0.04	+ 0.26	
16	"	- 11.5	0.0	+ 0.32	+ 0.44	+ 0.02	+ 0.26	131 and 35 R. P. L.
20	"	- 11.7	0.0	+ 0.34	+ 0.44	+ 0.02	+ 0.28	
22	"	- 11.2	0.0	+ 0.35	+ 0.43	+ 0.02	+ 0.29	
23	"	- 12.2	0.0	+ 0.36	+ 0.47	+ 0.02	+ 0.30	
28	"	- 11.3	0.0	+ 0.30	+ 0.48	+ 0.02	+ 0.32	
29	"	- 11.4	0.0	+ 0.23	+ 0.46	+ 0.02	+ 0.33	
30	"	- 11.9	0.0	+ 0.26	+ 0.44	+ 0.02	+ 0.33	
Aug. 2	M	- 10.5	+ 0.5	+ 0.31	+ 0.50	+ 0.04	+ 0.34	
3	"	- 11.8	+ 0.5	+ 0.31	+ 0.52	+ 0.05	+ 0.36	
5	"	- 10.9	+ 0.5	+ 0.40	+ 0.50	+ 0.07	+ 0.37	24 Urs. Min. and γ Aquilæ.
7	"	- 9.5	+ 0.5	+ 0.37	+ 0.46	+ 0.05	+ 0.38	
9	"	- 10.3	+ 0.5	+ 0.38	+ 0.44	+ 0.02	+ 0.39	24 Urs. Min. & 51 Cephei.
10	"	- 10.6	+ 0.5	+ 0.35	+ 0.49	+ 0.06	+ 0.34	24 Cephei and Altair.
16	"	- 7.4	+ 0.5	- 0.27	+ 0.43	+ 0.01	+ 0.37	
17	"	- 6.4	+ 0.5	- 0.17	+ 0.40	0.00	+ 0.32	24 Urs. Min. & 51 Cephei.
18	"	- 7.1	+ 0.5	+ 0.02	+ 0.43	+ 0.03	+ 0.37	151, 45 and 70 R. P. L. and 51 Cephei.
20	"	- 6.7	+ 0.5	+ 0.10	+ 0.39	+ 0.02	+ 0.34	24 Urs. Min., 51 Cephei and 45 R. P. L.
21	"	- 6.4	+ 0.5	+ 0.09	+ 0.42	+ 0.03	+ 0.34	24 Urs. Min. & 51 Cephei.
28	"	- 7.6	+ 0.5	+ 0.15	+ 0.43	+ 0.04	+ 0.35	24 Urs. Min., 42 and 45 R. P. L. and 51 Cephei.

+0.33
+0.33
+0.34
+0.32
+0.31
+0.29
+0.28
+0.27
+0.33
+0.41
+0.33
+0.42
+0.35
+0.38

May 20. 11h. Om.—Changed the 20 grain weight on the weight shelf for the 10 grain weight by mistake: increasing the rate by 1.00 instead of diminishing it.
 May 21. 7h. 3m.—Changed the 10 grain weight on the rate shelf for the 30 grain weight.
 August 10th to 16th.—Heavy rain.

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Aug. 24	M	- 7.8	+ 0.5	+ 0.04	+ 0.45	+ 0.05	+ 0.33	24 Urs. Min. & 51 Cephei.
25	"	- 7.7	+ 0.5	+ 0.05	+ 0.44	+ 0.06	+ 0.35	
26	"	- 8.0	+ 0.5	+ 0.22	+ 0.42	+ 0.06	+ 0.36	
27	"	- 7.3	+ 0.5	+ 0.19	+ 0.42	+ 0.04	+ 0.38	
30	"	- 6.7	+ 0.5	+ 0.17	+ 0.40	+ 0.04	+ 0.37	24 Urs. Min., 24 Cephei, 42 and 45 R. P. L. +0.42
Sep. 2	R	- 6.9	0.0	+ 0.19	+ 0.37	+ 0.04	+ 0.45	
6	"	- 7.7	0.0	+ 0.10	+ 0.33	+ 0.03	+ 0.48	151 and 70 R. P. L.
7	"	- 7.6	0.0	+ 0.12	+ 0.35	+ 0.05	+ 0.46	150 and 72 R. P. L.
9	"	- 6.2	0.0	+ 0.18	+ 0.37	+ 0.02	+ 0.41	γ Aquilæ and 70 R. P. L.
11	"	- 8.5	0.0	+ 0.19	+ 0.39	+ 0.03	+ 0.50	150 and 72 R. P. L.
14	"	- 8.3	0.0	+ 0.15	+ 0.38	+ 0.04	+ 0.52	
20	"	- 6.9	0.0	+ 0.35	+ 0.41	+ 0.05	+ 0.54	
21	"	- 6.2	0.0	+ 0.27	+ 0.38	+ 0.07	+ 0.55	150 and 87 R. P. L.
22	"	- 5.6	0.0	+ 0.20	+ 0.43	+ 0.05	+ 0.55	24 Urs. Minoris, 24 Cephei and 87 R. P. L. +0.46
23	"	- 6.5	0.0	+ 0.18	+ 0.33	+ 0.05	+ 0.51	
24	"	- 6.6	0.0	+ 0.25	+ 0.31	+ 0.03	+ 0.48	
25	"	- 6.8	0.0	+ 0.32	+ 0.32	+ 0.03	+ 0.44	158 and 87 R. P. L.
27	"	- 5.3	0.0	+ 0.31	+ 0.29	+ 0.03	+ 0.51	
28	"	- 6.1	0.0	+ 0.33	+ 0.35	+ 0.06	+ 0.55	24 Cephei and 87 R. P. L. +0.40
29	"	- 5.2	0.0	+ 0.28	+ 0.35	+ 0.04	+ 0.53	
Oct. 1	M	- 6.4	+ 0.2	+ 0.32	+ 0.37	+ 0.05	+ 0.49	18 R. P. L. and θ Aquarii.
2	"	- 6.4	+ 0.2	+ 0.30	+ 0.35	+ 0.06	+ 0.47	
4	"	- 6.8	+ 0.2	+ 0.14	+ 0.37	+ 0.05	+ 0.44	
5	"	- 6.9	+ 0.2	+ 0.15	+ 0.38	+ 0.05	+ 0.43	
6	"	- 7.0	+ 0.2	+ 0.33	+ 0.43	+ 0.09	+ 0.41	
7	"	- 6.2	+ 0.2	+ 0.44	+ 0.35	+ 0.01	+ 0.40	18, 60 and 87 R. P. L.
11	"	- 6.0	+ 0.2	+ 0.08	+ 0.33	+ 0.03	+ 0.45	18 and 99 R. P. L.
12	"	- 5.0	+ 0.2	+ 0.05	+ 0.33	+ 0.07	+ 0.45	
13	"	- 4.5	+ 0.2	+ 0.12	+ 0.32	+ 0.06	+ 0.45	12 and 87 R. P. L.
14	"	- 5.4	+ 0.2	+ 0.20	+ 0.28	+ 0.06	+ 0.45	
16	"	- 5.2	+ 0.2	+ 0.20	+ 0.24	+ 0.05	+ 0.46	
19	"	- 4.8	+ 0.2	+ 0.21	+ 0.19	+ 0.01	+ 0.48	
22	"	- 3.4	+ 0.2	+ 0.13	+ 0.33	+ 0.08	+ 0.49	12, 18 and 87 R. P. L.
23	"	- 2.1	+ 0.2	+ 0.06	+ 0.36	+ 0.06	+ 0.47	12, 18 and 90 R. P. L.
25	"	- 3.3	+ 0.2	+ 0.08	+ 0.39	+ 0.02	+ 0.41	12, 18 and 89 R. P. L.
26	"	- 3.6	+ 0.2	+ 0.07	+ 0.40	+ 0.04	+ 0.47	18 and 92 R. P. L. +0.35
27	"	- 3.4	+ 0.2	+ 0.01	+ 0.40	+ 0.02	+ 0.44	18 and 92 R. P. L. +0.34
28	"	- 4.3	+ 0.2	+ 0.05	+ 0.45	+ 0.02	+ 0.42	158, 92 and 93 R. P. L. +0.36
29	"	- 4.0	+ 0.2	+ 0.08	+ 0.39	+ 0.02	+ 0.38	158, 92, 93 and 103 R. P. L. +0.35
30	"	- 4.8	+ 0.2	+ 0.07	+ 0.41	+ 0.02	+ 0.43	158, 92 and 103 R. P. L. +0.38
Nov. 1	R	- 3.9	0.0	- 0.15	+ 0.28	+ 0.01	+ 0.34	12, 93 and 103 R. P. L. +0.30
2	"	- 5.8	0.0	- 0.10	+ 0.33	+ 0.02	+ 0.30	14, 93 and 103 R. P. L. +0.33
3	"	- 5.6	0.0	- 0.05	+ 0.32	+ 0.03	+ 0.29	10 and 103 R. P. L. +0.37
4	"	- 5.4	0.0	- 0.03	+ 0.31	+ 0.04	+ 0.47	12 and 90 R. P. L.
5	"	- 6.4	0.0	- 0.03	+ 0.28	+ 0.03	+ 0.46	
6	"	- 5.4	0.0	- 0.04	+ 0.31	+ 0.04	+ 0.46	
8	"	- 5.5	0.0	+ 0.14	+ 0.33	+ 0.02	+ 0.45	
9	"	- 5.1	0.0	+ 0.13	+ 0.35	+ 0.03	+ 0.45	
11	"	- 5.8	0.0	+ 0.26	+ 0.36	+ 0.04	+ 0.44	
12	"	- 6.2	0.0	+ 0.28	+ 0.37	+ 0.04	+ 0.43	
15	"	- 2.9	0.0	+ 0.14	+ 0.32	+ 0.03	+ 0.42	
16	"	- 1.4	0.0	+ 0.09	+ 0.30	+ 0.03	+ 0.42	18 and 98 R. P. L.
17	"	- 2.4	0.0	+ 0.07	+ 0.33	+ 0.04	+ 0.50	
19	"	- 1.8	0.0	+ 0.19	+ 0.32	+ 0.04	+ 0.50	14 and 98 R. P. L. +0.41
20	"	- 3.0	0.0	+ 0.19	+ 0.35	+ 0.05	+ 0.56	
23	"	- 0.5	0.0	+ 0.10	+ 0.33	+ 0.05	+ 0.46	

INTRODUCTION.

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining tars.
		"	"	s	s	s	s	
Nov. 25	R	- 1.2	0.0	+ 0.13	+ 0.32	+ 0.05	+ 0.40	12 and 98 R. P. L.
27	"	- 1.0	0.0	+ 0.16	+ 0.32	+ 0.03	+ 0.49	34 and 111 R. P. L.
29	"	- 2.1	0.0	+ 0.12	+ 0.26	+ 0.04	+ 0.58	
30	"	- 3.3	0.0	+ 0.23	+ 0.28	+ 0.05	+ 0.63	14 and 98 R. P. L.
Dec. 1	M	- 2.9	- 0.6	+ 0.23	+ 0.30	+ 0.04	+ 0.52	
2	"	- 3.7	- 0.6	+ 0.09	+ 0.29	+ 0.04	+ 0.40	
8	"	...	...	...	+ 0.31	+ 0.04	+ 0.29	Polaris and ν Piscium.
8	"	- 2.9	- 0.6	+ 0.18	+ 0.33	+ 0.07	+ 0.46	12 and 101 R. P. L.
10	"	- 3.7	- 0.6	+ 0.15	+ 0.30	+ 0.02	+ 0.37	Polaris and θ^1 Ceti.
11	"	- 3.6	- 0.6	+ 0.12	+ 0.35	+ 0.05	+ 0.41	
14	"	- 4.4	- 0.6	+ 0.05	+ 0.28	+ 0.04	+ 0.54	33 R. P. L. and θ^1 Ceti.
18	"	- 5.0	- 0.6	- 0.12	+ 0.36	+ 0.09	+ 0.49	26 and 108 R. P. L.
20	"	- 5.6	- 0.6	+ 0.01	+ 0.37	+ 0.10	+ 0.50	33 and 114 R. P. L.
21	"	- 5.1	- 0.6	+ 0.07	+ 0.30	+ 0.04	+ 0.36	26 and 111 R. P. L.
22	"	- 4.6	- 0.6	+ 0.06	+ 0.31	+ 0.04	+ 0.36	26 and 111 R. P. L.
25	"	- 5.9	- 0.6	+ 0.05	+ 0.26	+ 0.04	+ 0.37	33 and 114 R. P. L.

+0.43

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.
Jan. 4	R	- 7.8	0.0	+ 0.21	+ 0.31	+ 0.08	+ 0.49	34 and 111 R. P. L.
5	"	- 7.8	0.0	+ 0.18	+ 0.32	+ 0.05	+ 0.49	
6	"	- 8.3	0.0	+ 0.20	+ 0.33	+ 0.05	+ 0.49	
7	"	- 8.7	0.0	+ 0.18	+ 0.29	+ 0.03	+ 0.49	
8	"	- 7.4	0.0	+ 0.10	+ 0.33	+ 0.06	+ 0.49	33 and 114 R. P. L.
10	"	- 8.3	0.0	- 0.01	+ 0.31	+ 0.04	+ 0.45	
11	"	- 8.8	0.0	+ 0.10	+ 0.31	+ 0.05	+ 0.44	
12	"	- 8.7	0.0	+ 0.20	+ 0.29	+ 0.05	+ 0.42	
13	"	- 9.3	0.0	+ 0.14	+ 0.30	+ 0.04	+ 0.40	35 and 111 R. P. L.
14	"	- 9.3	0.0	+ 0.13	+ 0.29	+ 0.04	+ 0.48	
15	"	- 9.1	0.0	+ 0.11	+ 0.30	+ 0.05	+ 0.57	34 and 115 R. P. L.
17	"	- 9.5	0.0	+ 0.17	+ 0.26	+ 0.05	+ 0.53	
18	"	- 9.3	0.0	+ 0.06	+ 0.23	+ 0.04	+ 0.51	
19	"	- 9.8	0.0	- 0.02	+ 0.21	+ 0.03	+ 0.50	
20	"	- 10.4	0.0	+ 0.04	+ 0.20	+ 0.03	+ 0.48	
22	"	- 10.3	0.0	+ 0.10	+ 0.22	+ 0.03	+ 0.44	40 and 116 R. P. L.
28	"	- 11.9	0.0	+ 0.12	+ 0.17	+ 0.02	+ 0.40	35 and 115 R. P. L.
31	"	- 11.7	0.0	+ 0.26	+ 0.19	+ 0.02	+ 0.41	40 and 116 R. P. L.
Feb. 2	M	- 12.8	- 0.7	+ 0.31	+ 0.19	+ 0.01	+ 0.36	40 R. P. L. and δ Urs. Min.
7	"	- 13.7	- 0.7	+ 0.24	+ 0.14	- 0.04	+ 0.36	40 R. P. L. and ϵ Urs. Min.
14	"	- 14.2	- 0.7	+ 0.24	+ 0.20	+ 0.04	+ 0.43	40 R. P. L. and δ Urs. Min.
21	"	- 14.6	- 0.7	+ 0.16	+ 0.18	0.00	+ 0.31	51 Cephei and δ Urs. Min.
28	"	- 13.5	- 0.7	+ 0.12	+ 0.27	0.00	+ 0.27	51 Cephei and 131 R. P. L.
Mar. 6	R	- 12.0	0.0	+ 0.13	+ 0.33	+ 0.03	+ 0.33	49 and 131 R. P. L.
13	"	- 12.2	0.0	+ 0.16	+ 0.35	+ 0.04	+ 0.37	60 and 143 R. P. L.
20	"	- 12.7	0.0	+ 0.14	+ 0.39	+ 0.05	+ 0.38	70 and 143 R. P. L.
27	"	- 11.5	0.0	- 0.04	+ 0.39	+ 0.02	+ 0.29	60 and 150 R. P. L.
28	"	- 11.4	0.0	+ 0.07	+ 0.43	+ 0.04	+ 0.32	72 and 150 R. P. L.
29	"	- 11.3	0.0	+ 0.18	+ 0.38	+ 0.02	+ 0.26	72 and 151 R. P. L.
30	"	- 11.9	0.0	+ 0.14	+ 0.39	+ 0.01	+ 0.22	69 and 151 R. P. L.
31	"	- 11.5	0.0	+ 0.11	+ 0.42	+ 0.01	+ 0.26	
Apl. 3	M	- 11.8	0.0	+ 0.09	+ 0.55	+ 0.07	+ 0.38	72 and 150 R. P. L.
10	"	- 11.0	0.0	+ 0.07	+ 0.62	+ 0.11	+ 0.35	89 R. P. L. and γ Virginis.
17	R	- 10.1	0.0	+ 0.01	+ 0.54	+ 0.07	+ 0.39	72 and 150 R. P. L.
19	"	- 10.8	0.0	+ 0.05	+ 0.58	+ 0.05	+ 0.35	70 and 151 R. P. L.
20	"	- 10.6	0.0	+ 0.09	+ 0.58	+ 0.08	+ 0.33	
21	"	- 10.2	0.0	+ 0.12	+ 0.53	+ 0.05	+ 0.30	89 and 158 R. P. L.
22	"	- 10.1	0.0	+ 0.11	+ 0.52	+ 0.03	+ 0.30	
24	"	- 10.4	0.0	+ 0.06	+ 0.54	+ 0.06	+ 0.32	98 and 158 R. P. L.
27	"	- 10.4	0.0	+ 0.16	+ 0.54	+ 0.05	+ 0.19	103 and 12 R. P. L.
28	"	- 10.5	0.0	+ 0.14	+ 0.54	+ 0.05	+ 0.09	99 and 14 R. P. L.
29	"	- 10.5	0.0	+ 0.08	+ 0.50	+ 0.06	+ 0.17	108 and 33 R. P. L.
May 1	"	- 9.8	0.0	+ 0.10	+ 0.51	+ 0.06	+ 0.23	Arcturus & 33 R. P. L.
3	"	- 11.0	0.0	+ 0.14	+ 0.52	+ 0.05	+ 0.13	103 and 12 R. P. L.
9	"	- 10.7	0.0	+ 0.06	+ 0.52	+ 0.04	+ 0.06	108 and 14 R. P. L.
12	"	- 10.6	0.0	+ 0.06	+ 0.52	+ 0.03	+ 0.17	114 and 33 R. P. L.
13	"	- 10.2	0.0	+ 0.10	+ 0.55	+ 0.04	+ 0.21	108 and 18 R. P. L.
16	"	- 10.7	0.0	+ 0.09	+ 0.58	+ 0.04	+ 0.14	103 and 12 R. P. L.
17	"	- 10.5	0.0	+ 0.10	+ 0.56	+ 0.02	+ 0.36	111 and 35 R. P. L.
20	"	- 9.7	0.0	+ 0.17	+ 0.54	+ 0.02	+ 0.41	111 and 35 R. P. L.
22	"	- 10.0	0.0	+ 0.19	+ 0.52	+ 0.04	+ 0.37	114 and 35 R. P. L.
25	"	- 10.1	0.0	+ 0.18	+ 0.52	+ 0.03	+ 0.33	114 and 35 R. P. L.
26	"	- 9.4	0.0	+ 0.18	+ 0.52	+ 0.05	+ 0.35	114 and 35 R. P. L.
June 2	M	- 8.9	0.0	+ 0.32	+ 0.61	+ 0.06	+ 0.39	114 R. P. L. and α Libras.

0.32
0.31
0.29

0.32
0.31
0.31
0.25
0.24
0.27

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars
		"	"	s	s	s	s	
June 5	M	- 9.4	0.0	+ 0.28	+ 0.57	+ 0.03	+ 0.39	3 Ursæ Min. and α Libræ.
6	"	- 10.1	0.0	+ 0.26	+ 0.60	+ 0.03	+ 0.39	
8	"	- 8.9	0.0	+ 0.27	+ 0.59	+ 0.03	+ 0.33	
14	"	- 9.3	0.0	+ 0.28	+ 0.60	+ 0.04	+ 0.37	
17	"	- 7.2	0.0	+ 0.26	+ 0.59	+ 0.05	+ 0.40	
27	"	- 7.0	0.0	+ 0.26	+ 0.60	- 0.04	+ 0.42	114 and 35 R. P. L. 131 and 43 R. P. L.
July 5	R	- 6.7	0.0	+ 0.25	+ 0.49	+ 0.02	+ 0.44	24 Urs. Min. & 42 R. P. L. 131 and 42 R. P. L.
10	"	- 9.2	0.0	+ 0.06	+ 0.47	+ 0.03	+ 0.45	
19	"	- 7.7	0.0	- 0.06	+ 0.47	+ 0.05	+ 0.47	
20	"	- 8.1	0.0	- 0.09	+ 0.44	+ 0.03	+ 0.47	
22	"	- 7.8	0.0	- 0.14	+ 0.40	+ 0.03	+ 0.47	
29	"	- 7.2	0.0	+ 0.03	+ 0.45	+ 0.05	+ 0.49	
31	"	- 6.5	0.0	+ 0.06	+ 0.43	+ 0.04	+ 0.52	
Aug. 1	"	- 7.9	0.0	+ 0.07	+ 0.46	+ 0.04	+ 0.53		3 Urs. Min. & 42 R. P. L.
2	"	- 7.7	0.0	+ 0.09	+ 0.42	+ 0.05	+ 0.51	24 Urs. Min. & 42 R. P. L.
3	"	- 7.2	0.0	+ 0.08	+ 0.44	+ 0.05	+ 0.50	
4	"	- 7.8	0.0	+ 0.06	+ 0.42	+ 0.04	+ 0.48	24 Urs. Min. & 42 R. P. L.
7	"	- 8.3	0.0	+ 0.07	+ 0.43	+ 0.06	+ 0.48	131 and 45 R. P. L. 3 Urs. Min. and 42 R. P. L.
10	"	- 7.8	0.0	+ 0.12	+ 0.43	+ 0.05	+ 0.48	
12	"	- 7.5	0.0	+ 0.07	+ 0.42	+ 0.04	+ 0.48	
14	"	- 7.3	0.0	- 0.12	+ 0.41	+ 0.04	+ 0.49	
15	"	- 6.8	0.0	- 0.16	+ 0.43	+ 0.06	+ 0.49	
16	"	- 7.7	0.0	- 0.15	+ 0.40	+ 0.03	+ 0.49	
18	"	- 8.0	0.0	- 0.07	+ 0.40	+ 0.04	+ 0.49	
21	M	- 8.9	0.0	+ 0.02	+ 0.48	+ 0.03	+ 0.49	
26	R	- 7.9	0.0	- 0.13	+ 0.40	+ 0.04	+ 0.50	
Sep. 6	"	- 7.1	- 0.1	- 0.18	+ 0.38	+ 0.05	+ 0.47		143 and 70 R. P. L.
7	"	- 5.7	- 0.1	- 0.17	+ 0.38	+ 0.05	+ 0.46	143 and 60 R. P. L.
14	"	- 6.7	- 0.1	- 0.10	+ 0.41	+ 0.05	+ 0.37	
18	"	- 6.5	- 0.1	- 0.11	+ 0.38	+ 0.05	+ 0.41	143 and 49 R. P. L.
19	"	- 7.8	- 0.1	- 0.01	+ 0.40	+ 0.05	+ 0.43	151 and 72 R. P. L.
20	"	- 8.2	- 0.1	+ 0.08	+ 0.40	+ 0.04	+ 0.45	
22	"	- 7.0	- 0.1	+ 0.16	+ 0.39	+ 0.04	+ 0.49	
23	"	- 7.7	- 0.1	+ 0.17	+ 0.41	+ 0.05	+ 0.51	
25	"	- 8.7	- 0.1	+ 0.08	+ 0.38	+ 0.04	+ 0.55	
26	"	- 7.5	- 0.1	+ 0.08	+ 0.39	+ 0.05	+ 0.53	
29	"	- 6.2	- 0.1	+ 0.14	+ 0.46	+ 0.04	+ 0.49	
Oct. 2	"	- 6.7	- 0.1	+ 0.07	+ 0.38	+ 0.05	+ 0.51	151 and 69 R. P. L.
4	"	- 6.6	- 0.1	+ 0.09	+ 0.38	+ 0.05	+ 0.52	
5	"	- 7.5	- 0.1	+ 0.08	+ 0.37	+ 0.04	+ 0.53	150 and 70 R. P. L.
7	"	- 6.8	- 0.1	- 0.08	+ 0.33	+ 0.04	+ 0.54	
10	"	- 6.7	- 0.1	- 0.16	+ 0.36	+ 0.04	+ 0.55	143 and 60 R. P. L. 143 and 60 R. P. L. 143 and 60 R. P. L. 143 and 60 R. P. L. 143 and 60 R. P. L. 143 and 60 R. P. L.
13	"	- 7.6	- 0.1	- 0.01	+ 0.38	+ 0.05	+ 0.46	
18	M	- 8.6	+ 0.6	+ 0.27	+ 0.38	+ 0.04	+ 0.40	
19	"	- 8.3	+ 0.6	+ 0.22	+ 0.33	0.00	+ 0.39	
21	"	- 9.8	+ 0.6	- 0.07	+ 0.33	+ 0.01	+ 0.38	
23	"	- 9.1	+ 0.6	- 0.19	+ 0.34	+ 0.04	+ 0.42	
24	"	- 9.3	+ 0.6	- 0.18	+ 0.35	+ 0.04	+ 0.41	
30	"	- 9.4	+ 0.6	- 0.08	+ 0.26	+ 0.03	+ 0.38	
31	"	- 9.3	+ 0.6	- 0.06	+ 0.26	+ 0.04	+ 0.44	
Nov. 1	"	- 9.1	- 0.1	- 0.04	+ 0.26	+ 0.04	+ 0.47		150 and 70 R. P. L. 150 and 70 R. P. L. Polaris and β Ceti. 2 Urs. Min. and 89 R. P. L.
2	"	- 9.8	- 0.1	- 0.01	+ 0.28	+ 0.06	+ 0.50	
3	"	- 10.0	- 0.1	+ 0.01	+ 0.28	+ 0.06	+ 0.47	
14	"	- 5.3	- 0.1	- 0.23	+ 0.23	+ 0.07	+ 0.47	
27	"	- 8.8	- 0.1	- 0.27	+ 0.13	+ 0.01	+ 0.45	

0.57

Heavy rain between November 3rd and 14th.

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Nov. 30	M	- 8.7	- 0.1	- 0.15	+ 0.18	+ 0.05	+ 0.51	Polaris and 116 R. P. L.
Dec. 1	"	- 6.8	- 0.3	- 0.32	+ 0.17	+ 0.02	+ 0.52	
4	"	- 6.8	- 0.3	- 0.65	+ 0.15	+ 0.04	+ 0.54	34 and 115 R. P. L.
5	"	- 6.9	- 0.3	- 0.54	+ 0.09	+ 0.02	+ 0.54	
6	"	- 7.0	- 0.3	- 0.47	+ 0.10	+ 0.02	+ 0.54	34 and 115 R. P. L.
7	"	- 7.3	- 0.3	- 0.42	+ 0.10	+ 0.02	+ 0.53	
8	"	- 8.0	- 0.3	- 0.48	+ 0.10	+ 0.03	+ 0.52	
9	"	- 7.6	- 0.3	- 0.52	+ 0.08	+ 0.02	+ 0.51	
11	"	- 8.5	- 0.3	- 0.35	+ 0.06	+ 0.01	+ 0.50	
12	"	- 8.7	- 0.3	- 0.37	+ 0.10	+ 0.01	+ 0.49	34 and 116 R. P. L.
13	"	- 8.8	- 0.3	- 0.43	+ 0.08	- 0.01	+ 0.46	
14	"	- 8.9	- 0.3	- 0.42	+ 0.08	0.00	+ 0.43	
15	"	- 9.1	- 0.3	- 0.34	+ 0.09	+ 0.01	+ 0.40	2 Urs. Min. & 111 R. P. L.
16	"	- 10.2	- 0.3	- 0.36	+ 0.12	+ 0.05	+ 0.43	
18	"	- 9.7	- 0.3	- 0.36	+ 0.08	+ 0.01	+ 0.50	2 Urs. Min. & 108 R. P. L.
19	"	- 10.5	- 0.3	- 0.31	+ 0.08	+ 0.02	+ 0.54	
20	"	- 11.1	- 0.3	- 0.32	+ 0.06	+ 0.01	+ 0.50	2 Urs. Min. & 111 R. P. L.
21	"	- 11.7	- 0.3	- 0.35	+ 0.05	+ 0.04	+ 0.47	2 Urs. Min. and θ^1 Ceti.
22	"	- 10.9	- 0.3	- 0.36	+ 0.06	+ 0.01	+ 0.44	
29	R	- 10.2	- 0.3	- 0.28	+ 0.12	+ 0.04	+ 0.46	35 R. P. L. and δ Urs. Min.

0.42
0.46
0.48

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1875.		1874.			1875.			1876.				
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.		
	<i>h.</i>	<i>m.</i>	<i>o</i>	<i>′</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>		
α Andromedæ ...	0	2	61	36	2	-0.08	-0.8	1	+0.18	+1.0	...	.....	.....
γ Pegasi (<i>Algenib</i>) ...	0	7	75	31	4	+0.01	-1.2	2	-0.03	+0.6	...	.....	.....
12 Ceti ...	0	24	94	39	7	0.00	-1.8	1	-0.04	-0.4	1	+0.07	+0.4
β Ceti ...	0	37	108	40	6	-0.03	-0.9	3	+0.11	-0.7	1	+0.01	-0.5
ϵ Piscium ...	0	56	82	47	7	-0.04	-1.3	3	-0.03	-1.0	1	-0.01	0.0
α Urs. Min. (<i>Polaris</i>) ...	-1	13	1	21	-1	-0.55	+2.6	2	+0.94	+3.7	...	.....	.....
θ Ceti ...	1	18	98	50	1	+0.06	-2.1	6	+0.04	-0.1	3	-0.04	-0.4
η Piscium ...	1	25	75	18	1	-0.02	+1.7	6	-0.01	+1.0	...	.....	.....
ν Piscium ...	1	35	85	9	3	+0.13	-2.2	4	-0.02	-1.8	7	+0.05	-1.8
β Arietis ...	1	48	69	48	7	+0.03	-1.2	6	+0.01	-0.8	2	-0.01	+0.2
α Arietis ...	2	0	67	8	...	.....	.....	5	-0.06	-0.3	6	0.00	+1.9
δ Ceti ...	2	11	97	0	1	+0.12	-1.5	5	+0.01	-1.0	6	+0.03	-0.2
ξ^2 Ceti ...	2	22	82	6	3	+0.03	-1.5	5	+0.01	-1.8	6	-0.03	-0.4
γ^2 Ceti ...	2	37	87	18	17	-0.01	-2.7	6	+0.01	-3.1	10	+0.02	-1.1
α Ceti (<i>Menkar</i>) ...	2	56	86	24	11	-0.05	-1.1	8	-0.02	-2.4	8	+0.01	-1.7
δ Arietis ...	3	4	70	45	4	0.00	+1.2	5	+0.03	+0.4	9	-0.03	+1.0
α Persei ...	3	15	40	35	1	-0.12	+0.1	...	.....	.....	...	.....	.....
ϵ Eridani ...	3	27	99	53	...	.....	.....	...	.....	.....	1	0.00	-1.4
η Tauri (<i>Alcyone</i>) ...	3	40	66	17	11	-0.02	-0.3	12	-0.01	-0.3	8	+0.02	0.0
γ^1 Eridani ...	3	52	103	52	20	+0.02	-1.2	9	+0.02	-1.2	11	0.00	-0.3
ϵ^1 Eridani ...	4	6	97	10	11	+0.04	-0.6	2	+0.02	-2.2	5	0.00	+0.1
ϵ Tauri ...	4	21	71	6	10	+0.03	-0.2	7	-0.01	-0.7	7	0.00	+0.3
α Tauri (<i>Aldebaran</i>) ...	4	29	73	45	10	-0.03	+0.4	4	+0.02	+0.1	5	-0.03	+1.3
ι Aurigæ ...	4	49	57	2	17	+0.01	-0.5	8	+0.07	-0.3	8	+0.03	+0.2
ϵ Leporis ...	5	0	112	32	16	+0.01	-1.5	7	-0.02	-1.0	7	-0.01	-0.2
α Aurigæ (<i>Capella</i>) ...	5	7	44	8	1	-0.17	+0.1	...	.....	.....	...	.....	.....
β Orionis (<i>Rigel</i>) ...	5	9	98	21	9	0.00	-1.9	...	.....	.....	2	+0.02	-0.8
β Tauri ...	5	18	61	30	18	0.00	-0.5	7	-0.06	0.0	...	.....	.....
δ Orionis ...	5	26	90	24	2	-0.03	-2.5	3	-0.06	-0.7	1	0.00	+1.5
α Leporis ...	5	27	107	55	4	-0.05	-0.6	...	.....	.....	2	-0.02	+0.5
ϵ Orionis ...	5	30	91	17	9	+0.07	-1.4	1	-0.05	-0.3	4	-0.05	0.0
α Columbæ ...	5	35	124	8	1	-0.15	-0.4	...	.....	.....	3	-0.02	+1.0
α Orionis ...	5	48	82	37	13	-0.05	-1.6	5	+0.16	-0.9	4	0.00	+2.0
ν Orionis ...	6	0	75	13	6	+0.07	-0.3	1	+0.07	-1.8	2	+0.01	+1.2
μ Geminorum ...	6	15	67	25	6	-0.02	-0.7	2	-0.03	-0.5	...	.....	.....

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
					s	"		s	"		s	"
γ Geminorum ...	6	30	73 30	1	+0.14	+0.2	8	+0.06	+0.1	1	+0.01	+0.2
α Canis Maj. (<i>Sirius</i>)..	6	40	106 33	1	-0.12	+3.0	...	.....	.....	...	.....	.....
51 (Hév.) Cephei ...	6	41	2 46	2	+0.87	+0.7	16	+0.14	+2.1	2	+0.15	-1.3
ϵ Canis Majoris ...	6	54	118 48	1	+0.02	-1.7	15	-0.03	-0.4	...	.....	.....
γ Canis Majoris ...	6	58	105 27	6	0.00	-0.1	14	-0.04	0.0	1	-0.04	+0.2
α^2 Geminorum (<i>Castor</i>)	7	27	57 50	4	+0.02	+0.4	13	+0.03	+0.1	2	+0.02	+0.3
α Can. Min. (<i>Procyon</i>)	7	33	84 27	13	-0.08	-2.7	9	-0.08	-1.7	3	-0.12	-3.3
β Geminorum (<i>Pollux</i>)	7	38	61 40	5	+0.08	+1.0	5	+0.07	-0.1	2	+0.15	-0.2
6 Cancri ...	7	56	61 51	2	+0.06	+0.3	5	-0.02	-0.8	2	+0.04	-1.6
15 Argûs (<i>Navis</i>) ...	8	2	113 57	7	-0.07	-0.3	7	+0.03	-0.4	2	-0.04	-1.8
η Cancri ...	8	25	69 8	7	+0.05	-0.6	5	+0.04	-2.5	1	+0.03	-1.4
ϵ Hydræ ...	8	40	88 7	13	+0.01	-1.3	6	+0.01	-1.1	3	+0.02	-2.8
83 Cancri ...	9	12	71 46	6	+0.04	-0.3	1	+0.02	-0.8	3	0.00	-1.4
α Hydræ ...	9	21	98 7	11	-0.02	-1.2	...	.....	.....	3	-0.05	-1.5
θ Ursæ Majoris ...	9	24	37 45	2	+0.18	-3.7	...	.....	.....	...	.....	.....
ϵ Leonis ...	9	39	65 39	10	-0.02	+0.6	3	-0.03	-1.4	3	-0.31	-0.4
π Leonis ...	9	54	81 21	7	+0.02	-0.7	1	+0.06	-1.8	1	-0.08	-1.2
α Leonis (<i>Regulus</i>) ...	10	2	77 25	8	-0.01	-0.2	3	+0.04	-0.5	2	-0.04	-0.9
γ^1 Leonis ...	10	13	69 32	7	-0.04	-0.5	4	+0.04	+0.9	2	-0.02	-0.5
ρ Leonis ...	10	26	80 3	5	-0.04	-3.1	6	-0.04	-2.6	1	-0.02	-4.0
ι Leonis ...	10	43	78 48	8	+0.05	-1.7	10	+0.03	-2.2	5	+0.04	-2.4
χ Leonis ...	10	59	81 59	5	+0.02	-1.6	11	0.00	-2.3	2	+0.03	-2.5
δ Leonis ...	11	7	68 48	3	-0.07	+0.1	14	-0.04	-1.3	2	-0.06	-1.7
δ Crateris ...	11	13	104 6	2	+0.01	0.0	7	+0.01	-1.5	4	0.00	-1.0
ν Leonis ...	11	31	90 8	...	.....	.....	10	+0.01	-1.8	2	+0.02	-1.8
β Leonis (<i>Deneb</i>) ...	11	43	74 44	1	-0.02	-0.4	8	+0.04	0.0	3	+0.02	-0.1
γ Ursæ Majoris ...	11	47	35 37	1	+0.09	-2.4	...	.....	.....	...	.....	.....
ϵ Corvi ...	12	4	111 55	5	+0.01	-0.6	2	+0.05	-0.3	2	-0.05	-1.1
η Virginis ...	12	14	89 58	4	+0.02	-1.9	...	.....	.....	2	+0.03	-2.0
α^1 Crucis ...	12	20	152 24	1	-0.18	-0.6	...	.....	.....	...	.....	.....
β Corvi ...	12	28	112 42	4	+0.06	-1.3	4	+0.03	+0.4	1	-0.02	-1.6
γ Virginis (<i>Mean</i>) ...	12	35	90 46	4	+0.06	+1.5	...	.....	.....	...	.....	.....
α Canum Venaticor...	12	50	51 0	2	+0.03	-0.2	13	+0.03	+0.3	...	.....	.....
θ Virginis ...	13	3	94 52	10	+0.01	0.0	16	0.00	-0.7	6	-0.02	-1.8
α Virginis (<i>Spica</i>) ...	13	19	100 30	9	-0.03	0.0	10	-0.03	-1.0	1	+0.04	-1.4

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>
ζ Virginis ...	13	28	89 57	6	+0.03	-0.6	8	-0.01	-0.1	4	+0.01	-1.5
η Bootis ...	13	49	70 58	14	-0.01	-0.7	13	-0.01	-1.1	5	0.00	-2.0
β Centauri ...	13	55	149 46	3	-0.04	-0.1	3	-0.14	-2.2	...	.....	.....
τ Virginis ...	13	55	87 51	...	.....	.....	11	0.00	-1.8	7	+0.01	-2.8
α Bootis (<i>Arcturus</i>)...	14	10	70 10	5	+0.02	+1.4	10	-0.01	+0.9	5	-0.03	+0.6
ρ Bootis ...	14	26	59 5	2	-0.03	+1.2	11	-0.02	+0.1	2	-0.01	-0.4
ε ² Bootis (<i>Mirac</i>) ...	14	40	62 24	13	+0.01	+0.4	13	+0.02	-0.6	2	-0.09	-1.1
α Libræ ...	14	44	105 31	3	-0.05	+1.4	12	-0.02	+0.3	8	+0.02	-0.5
ψ Bootis ...	14	59	62 34	3	+0.02	-0.6	8	-0.02	-0.2	2	-0.04	-0.8
β Libræ ...	15	10	93 55	9	+0.02	-0.1	9	+0.04	-0.8	4	+0.04	-1.4
α Coronæ Borealis ...	15	29	62 52	7	-0.04	-0.9	6	-0.01	-0.3	4	+0.02	-0.6
α Serpentis ...	15	38	83 11	5	+0.01	-2.0	6	0.00	-1.3	3	-0.04	-1.0
ζ Ursæ Minoris ...	15	49	11 49	...	.....	.....	1	+0.31	-2.5	...	.....	.....
β ¹ Scorpii ...	15	53	109 28	10	-0.02	-1.7	5	+0.06	-1.6	1	0.00	-0.4
δ Ophiuchi ...	16	8	93 22	9	+0.03	+0.3	7	+0.02	+0.5	4	0.00	+1.1
α Scorpii (<i>Antares</i>) ...	16	22	116 9	6	0.00	-1.9	5	-0.03	-0.9	3	+0.03	+0.6
η ² Draconis ...	16	22	28 12	...	.....	.....	7	+0.18	-3.0	...	.....	.....
α Trianguli Australis..	16	35	158 48	3	-0.07	+3.0	4	-0.05	+0.1	...	.....	.....
ζ Herculis ...	16	37	58 10	3	-0.06	+0.4	7	-0.06	+0.3	6	-0.04	+0.3
κ Ophiuchi ...	16	52	80 26	8	0.00	-0.9	17	+0.03	-0.6	3	+0.04	-1.0
ε Ursæ Minoris ...	16	59	7 46	3	+0.02	-0.1	1	-1.17	+0.7	1	+0.77	+0.7
α ¹ Herculis ...	17	9	75 28	8	+0.03	-0.9	15	-0.02	-2.0	9	+0.02	-2.0
θ Ophiuchi ...	17	14	114 52	4	+0.04	+0.3	5	+0.07	+1.3	4	+0.04	+0.5
β Draconis ...	17	28	37 36	2	-0.09	0.0	3	+0.02	-3.2	...	.....	.....
α Ophiuchi ...	17	29	77 21	2	-0.04	+0.2	4	+0.04	-0.7	8	+0.03	-1.1
μ Herculis ...	17	42	62 12	4	0.00	-0.1	9	-0.06	-0.8	7	-0.06	-1.5
γ Draconis ...	17	54	38 30	1	+0.09	+1.5	...	.....	.....	...	.....	.....
μ Sagittarii ...	18	6	111 5	3	+0.07	0.0	9	+0.06	-0.2	3	+0.04	-1.2
δ Ursæ Minoris ...	18	13	3 24	3	-0.45	-2.3	...	.....	.....	6	-0.71	-0.6
α Lyræ (<i>Vega</i>) ...	18	33	51 20	9	-0.04	+0.6	2	-0.02	-1.2	2	-0.08	-1.0
β ¹ Lyræ ...	18	45	56 47	10	-0.03	+0.3	3	-0.01	-1.6	2	+0.01	-0.4
ζ Aquilæ ...	19	0	76 19	13	+0.03	+0.7	12	+0.02	-0.3	7	0.00	0.0
ω Aquilæ ...	19	12	78 38	10	+0.05	-1.6	6	-0.03	-0.1	3	+0.03	-1.6
δ Aquilæ ...	19	19	87 8	16	0.00	-0.8	4	+0.07	-1.2	3	-0.03	-1.0
h ² Sagittarii...	19	29	115 9	10	-0.03	+0.7	1	+0.03	+0.9	4	0.00	-0.4

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1875.		1874.			1875.			1876.				
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.		
	<i>h.</i>	<i>m.</i>	<i>o</i>	<i>′</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>	<i>″</i>		
γ Aquilæ ...	19	40	79	41	10	-0.02	-1.4	10	-0.05	-0.6	2	0.00	-2.5
α Aquilæ (<i>Altair</i>) ..	19	45	81	28	9	-0.01	-2.0	5	+0.02	-1.2	1	+0.04	-1.7
β Aquilæ ...	19	49	83	54	5	+0.07	-1.3	4	+0.03	-1.5	2	+0.10	-2.4
α ² Capricorni ...	20	11	102	56	7	-0.02	-1.0	1	+0.05	+1.8	5	+0.03	-0.2
ρ Capricorni ...	20	22	108	14	11	+0.04	-1.4	5	-0.01	-1.6	5	+0.03	-0.2
α Cygni (<i>Deneb</i>) ...	20	37	45	10	13	-0.02	-0.3	3	+0.03	+0.1	3	+0.11	-0.2
32 Vulpeculæ ...	20	49	62	25	10	-0.02	+0.1	6	+0.02	+0.1	8	-0.03	+0.4
ζ Cygni ...	21	8	60	17	12	-0.05	-0.2	14	-0.01	+0.1	8	+0.07	0.0
β Aquarii ..	21	25	93	7	18	+0.03	-0.8	16	+0.04	-0.2	15	-0.02	+0.2
ε Pegasi ...	21	38	80	42	5	-0.13	-1.6	9	-0.07	-0.6	12	-0.08	-0.5
16 Pegasi ...	21	47	64	40	4	+0.02	+0.5	8	-0.03	-0.2	3	-0.07	+0.6
α Aquarii ...	21	59	90	56	4	+0.10	-0.4	6	-0.01	-0.2	6	+0.02	-0.3
θ Aquarii ...	22	10	98	24	6	+0.05	-1.2	11	+0.01	-2.0	4	+0.05	-1.8
η Aquarii ...	22	29	90	46	4	-0.02	-0.4	6	+0.04	-1.5	2	+0.01	0.0
ζ Pegasi ...	22	35	79	49	8	-0.01	-1.6	11	-0.02	-1.3	...	.....	.....
α Piscis Australis ...	22	51	120	17	6	+0.02	-0.8	5	+0.04	-0.3	...	.....	.....
α Pegasi (<i>Markab</i>) ...	22	59	75	28	8	-0.04	-1.3	5	-0.03	-0.7	1	-0.02	-0.2
γ Piscium ...	23	11	87	24	6	-0.01	-1.9	8	-0.01	-3.2	1	+0.03	-1.0
κ Piscium ...	23	21	89	26	6	0.00	-0.5	8	0.00	-0.9	1	-0.05	+1.2
ι Piscium ...	23	34	85	3	10	-0.02	-2.6	9	-0.03	-1.1	2	-0.02	+0.4
γ Cephei ...	23	34	13	4	5	+0.10	-0.2	...	.....	.....	...	.....	.....
δ Sculptoris ...	23	42	118	49	9	+0.05	-0.5	5	-0.05	+0.2	1	-0.02	+1.3
ω Piscium ...	23	53	83	50	4	+0.03	-2.0	3	-0.01	-2.3	...	.....	.....

Errata in this and the four previous volumes.

Page.	No.	Subject.	For	Read
<i>In Madras Meridian Circle Observations for 1862, 63, and 64.</i>				
111	861	Annual Precession in P. D.	3·392	3·292
<i>In Madras Meridian Circle Observations for 1865, 66, and 67.</i>				
231	863	Annual Precession in R. A.	3·5510	3·3510
<i>In Madras Meridian Circle Observations for 1868, 69, and 70.</i>				
81	498	Annual Precession in R. A.	2·9818	2·9518
99	818	” ”	2·1831	2·1855
<i>In Madras Meridian Circle Observations for 1871, 72, and 73.</i>				
114	820	Name	R Sagittarii, Var. 1	E Sagittæ, Var. 1
163	731	Annual Precession in R. A.	2·7827	2·7287
168	820	Name	R Sagittarii, Var. 1	E Sagittæ, Var. 1
223	27	Sign of Proper Motion in R. A.	-	+
227	84	Secular Variation in R. A.	0·0027	0·0047
231	154	Annual Precession in P. D.	1·330	1·335
237	280	Sign of Proper Motion in R. A.	+	-
I		Introduction	Auwers	Auwers'
”		”	Robert Norman	Norman Robert
<i>In Madras Meridian Circle Observations for 1874, 75 and 76.</i>				
36 } 72 }	485	Name	R Sagittarii, Var. 1	E Sagittæ, Var. 1
39	532	Date	Oct.	Oct.
63	285	Annual Precession in R. A.	2·6204	2·6240
91	102	Date	May	Mar.
127	265	Sign of Proper Motion in R. A.	-	+
133	20	Date	July	Delete 'July'

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1874

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
1 <i>21 Andromedæ α, Alpherat.</i>										9 <i>16 Ceti β.</i>									
Nov. 18	...	0	1	52.51	...	61	36	18.0	R	Nov. 21	...	0	37	15.73	...	108	40	42.4	R
Dec. 1	...	1	52	60	...	36	18	6	R	Dec. 2	...	37	15	78	...	40	40	8	R
										15	...	37	15	82	...	40	43	1	M
										17	...	37	15	64	...	40	43	9	M
										18	...	37	15	76	...	40	43	6	M
										19	...	37	15	67	...	40	40	7	M
2 <i>Anon.</i>										10 <i>R. P. L. 10.</i>									
Oct. 15	9.2	0	2	23.34	4	127	26	40.9	M	Oct. 12	...	0	49	24.51	3	1	39	11.6	M
3 <i>Anon.</i>										11 <i>2 Ursæ Minoris—s.p.</i>									
Oct. 14	9.7	0	5	28.90	5	126	14	44.7	M	Mar. 21	...	0	49	23.85	3	1	39	12.3	R
4 <i>88 Pegasi γ, Algenib.</i>										12 <i>R. P. L. 14.</i>									
Oct. 27	...	0	6	44.94	...	75	31	1.3	M	Oct. 31	...	0	55	21.70	3	3	31	38.0	M
Nov. 4	...	6	44	94	...	31	1	7	M	Nov. 2	...	55	21	70	3	31	37.0	R	
25	...	6	44	94	...	31	1	2	R	12	...	55	21	70	3	31	38.0	R	
Dec. 3	...	6	44	94	...	30	53	9	R	13	...	55	21	70	3	31	37.0	R	
										17	...	55	21	76	3	31	37.7	R	
										10	...	55	21	76	3	31	36.8	R	
										20	...	55	21	76	3	31	35.4	R	
										21	...	55	21	76	3	31	35.8	R	
										Dec. 2	...	55	21	76	3	31	34.1	R	
5 <i>Anon.</i>										13 <i>U Piscium, Var. 4.</i>									
Oct. 3	9.0	0	19	31.75	...	26	33	17.5	M	Nov. 9	9.3	0	36	41.14	...	83	22	17.2	R
6 <i>12 Ceti.</i>										14 <i>U Piscium, Var. 4.</i>									
Nov. 4	...	0	23	36.41	...	94	39	14.4	M	12	9.2	36	41	03	...	22	17	9	R
19	...	23	36	45	...	39	12	3	R	13	10.0	36	40	96	...	22	16	9	R
20	...	23	36	47	...	39	12	7	R	17	10.1	36	40	68	...	22	14	4	R
23	...	23	36	47	...	39	12	5	R	18	10.0	36	40	99	4	22	17	0	R
Dec. 3	...	23	36	49	...	39	10	6	R										
4	...	23	36	40	...	39	11	9	R										
5	...	23	36	49	...	39	13	3	M										

18.74

36.57
45
43

41.07
03
40.95
73

21
19.82
21.29
20.93
21.76
22.01
21.42
21.60
22.47

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1871.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.														
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"															
R. P. L. 14—s.p.										18 R. P. L. 18.																							
June 9	...	0	55	21 ⁴⁷ 10²⁷	2	31	38	2	M	Dec. 4	...	1	11	25	18	3	2	5	42	0	R												
13 71 Piscium ε										R. P. L. 18—s.p.																							
Dec. 1	...	0	56	24	32	...	82	47	18	3	R	Mar. 31	...	1	11	24	98	3	2	5	41	5	R										
7	...	56	24	20	...	47	18	5	M	Apl. 11	...	11	25	58	3	5	41	2	R	13	...	11	25	26	3	5	48	3	R				
15	...	56	24	26	...	47	19	9	M	15	...	11	25	18	3	5	42	9	R	16	...	11	25	45	3	5	42	7	R				
16	...	56	24	29	...	47	19	2	M	17	...	11	25	53	3	5	42	7	R	June 4	...	11	24	69	3	5	43	6	M				
17	...	56	24	42	...	47	19	1	M	8	...	11	25	20	3	5	43	1	M	19	...	11	25	20	3	5	43	1	M				
18	...	56	24	28	...	47	19	1	M	19 Anon.																							
19	...	56	24	32	...	47	18	4	M	Oct. 16	9.4	1	12	13	18	...	152	19	23	0	M												
14 Anon.										30	9.2	12	18	03	...	19	22	5	M	31	9.3	12	18	53	...	19	22	6	M				
Nov. 2	9.5	1	2	3	23	...	17	33	4	4	R	20 Anon.																					
3	9.6	2	3	09	...	33	3	4	R	Nov. 2	9.1	1	12	36	98	...	152	14	23	9	R												
4	9.6	2	3	28	4	33	2	5	M	13	9.1	12	37	14	...	14	22	5	R	18	9.2	12	36	67	...	14	22	0	R				
15 Anon.										Oct. 16	9.4	1	12	13	18	...	152	19	23	0	M	21 1 Ursæ Minoris α, Polaris—s.p.											
Oct. 7	9.0	1	4	31	19	...	18	31	38	1	M	22 45 Ceti θ¹																					
16 S Cassiopeæ, Var. 4.										Dec. 13	...	1	17	43	53	...	98	50	0	8	M	23 93 Piscium ρ											
Dec. 1	8.3	1	10	25	27	...	18	3	7	0	R	Jan. 8	6.0	1	19	27	76	...	71	29	2	4	M	24 Lalande 2625.									
2	8.5	10	25	31	...	3	6	4	R	Oct. 13	5.9	19	27	92	...	29	4	9	M	Oct. 7	8.5	1	20	22	11	...	79	17	13	7	M		
3	8.5	10	25	22	...	3	6	3	R	24 Lalande 2625.																							
5	8.6	10	25	28	...	3	10	1	M	Oct. 7	8.5	1	20	22	11	...	79	17	13	7	M	10	8.5	20	22	29	...	17	13	0	M		
15	8.6	10	25	34	5	3	9	5	M	24 Lalande 2625.																							
16	8.5	10	25	18	...	3	10	3	M	24 Lalande 2625.																							
17	8.4	10	25	23	4	3	8	1	M	24 Lalande 2625.																							
18	8.4	10	25	52	...	3	10	0	M	24 Lalande 2625.																							
19	8.5	10	25	18	...	3	9	1	M	24 Lalande 2625.																							
17 S Piscium, Var 2.										24 Lalande 2625.																							
Nov. 10	8.5	1	10	59	31	...	81	44	0	8	R	24 Lalande 2625.																					
11	9.1	10	59	35	...	41	1	5	R	24 Lalande 2625.																							
17	9.1	10	59	58	...	43	58	0	R	24 Lalande 2625.																							
18	...	10	59	57	...	43	59	2	CR	24 Lalande 2625.																							
19	8.9	10	59	36	...	43	59	9	R	24 Lalande 2625.																							
20	8.6	10	59	38	...	44	0	6	R	24 Lalande 2625.																							
21	8.5	10	59	44	...	44	0	3	R	24 Lalande 2625.																							
25	9.1	10	59	47	...	44	0	3	R	24 Lalande 2625.																							
27	...	10	59	44	...	44	1	1	R	24 Lalande 2625.																							
30	9.1	10	59	21	...	43	5	7	R	24 Lalande 2625.																							

21.67

3.25

13.65

36.65
92
74
36.84

59.86
35
24
49
48
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24

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
25 Anon.										Jan 20	8°0'	2	19	37.10	...	90	44	53.0	M
Nov. 12	10.1	1	24	30.51	...	90	3	21.9	R	21	8°0'	19	37.11	...	44	54.6	M		
21	10.2	24	30.61	...	3	22.1	R	22	8°0'	19	37.05	...	44	54.6	M				
										23	8°3'	19	38.95	...	44	54.0	M		
26 99 Piscium η										33 73 Ceti ξ ^a									
Dec. 13	...	1	24	44.53	...	75	18	17.7	M	Jan. 1	...	2	21	27.63	...	82	6	20.1	M
										8	...	21	27.66	...	6	18.9	M		
										Dec. 22	...	21	27.75	5	6	22.0	M		
27 106 Piscium ν										34 R. P. L. 26.									
Nov. 18	...	1	34	52.53	...	85	8	59.3	R	Oct. 28	...	2	25	5.65	7	3	30	12.8	M
Dec. 18	...	34	52.68	...	9	2.4	M	Dec. 15	...	25	5.98	3	30	13.0	M				
16	...	34	52.55	...	9	2.2	M	16	...	25	5.49	3	30	14.0	M				
										17	...	25	6.22	3	30	13.3	M		
										18	...	25	6.34	3	30	13.4	M		
										19	...	25	5.52	3	30	12.4	M		
28 6 Arietis β										35 86 Ceti γ									
Nov. 18	...	1	47	40.91	...	69	48	29.3	R	Jan. 6	...	2	36	46.39	...	87	17	45.8	M
Dec. 13	...	47	40.91	...	48	31.3	M	7	...	36	46.39	...	17	45.5	M				
15	...	47	40.91	...	48	31.4	M	8	...	36	46.41	...	17	44.3	M				
16	...	47	40.83	...	48	31.2	M	9	...	36	46.31	...	17	44.2	M				
17	...	47	40.93	...	48	31.7	M	10	...	36	46.29	...	17	46.0	M				
18	...	47	40.94	...	48	31.9	M	12	...	36	46.40	...	17	45.4	M				
19	...	47	40.99	...	48	29.9	M	14	...	36	46.34	...	17	42.4	M				
										15	...	36	46.46	...	17	45.8	M		
										16	...	36	46.39	...	17	44.3	M		
										17	...	36	46.39	...	17	46.5	M		
										19	...	36	46.24	...	17	46.9	M		
										20	...	36	46.21	...	17	45.4	M		
										21	...	36	46.47	...	17	47.0	M		
										23	...	36	46.25	...	17	46.1	M		
										Dec. 8	...	36	46.33	...	17	47.6	M		
										25	...	36	46.40	...	17	47.4	M		
										28	...	36	46.30	...	17	44.9	R		
29 Anon.										36 92 Ceti α, Menkar.									
Jan. 7	9.9	2	6	24.47	...	151	21	14.0	M	Jan. 14	...	2	55	41.55 ²	...	86	24	18.7	M
8	9.9	6	24.60	...	21	8.9	M	15	...	55	41.55	...	24	20.2	M				
30 Anon.																			
Oct. 30	10.1	2	7	6.42	...	87	9	39.5	M	16	...	55	41.52	...	24	19.4	M		
Nov. 4	10.1	7	6.35	4	9	42.2	M	17	...	55	41.56	...	24	20.2	M				
31 67 Ceti.																			
Dec. 8	...	2	10	42.03	...	97	0	12.8	M										
32 R Ceti, Var. 2.																			
Jan. 9	7.9	2	19	37.80	...	90	44	50.7	M										
14	8.0	19	37.19	...	44	51.1	M												
15	8.0	19	37.30	...	44	53.7	M												
16	8.0	19	37.17	...	44	58.1	M												
17	8.0	19	37.24	...	44	54.5	M												
19	8.0	19	37.22	...	44	53.9	M												

64

23.24] [15.0]
23.28] [13.9]

35.93
.78
.90
.88
.86
.86
.74
.78
.74
.65

35.74
.78
.74
.65

46.35

46.52

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
Jan. 19	...	2	55	41.61	...	86	24	21.3	M	44 <i>R Persei, Var. 3.</i>									
20	...		55	41.48	...		24	20.5	N	Dec. 7	9.3	3	22	2.36	...	54	45	54.1	M
21	...		55	41.59	...		24	20.6	M	15	8.5		22	2.13	...		45	54.0	M
23	...		55	41.43	...		24	20.5	M	17	8.6		22	2.31	...		45	54.2	M
Dec. 22	...		55	41.72	...		24	22.8	M	18	8.3		22	2.21	...		45	54.7	M
25	...		55	41.64	...		24	21.8	M	19	8.3		22	2.12	...		45	53.9	M
28	...		55	41.64	...		24	21.4	R	28	8.6		22	2.18	...		45	53.3	R
37 <i>57 Arietis δ</i>										45 <i>R. P. L. 34.</i>									
Jan. 5	...	3	4	25.61	...	70	45	4.9	M	Jan. 1	...	3	25	24.64	3	3	45	17.6	M
22	...		4	25.58	...		45	7.0	M	14	...		25	24.58	2		45	17.1	M
Dec. 22	...		4	25.55	...		45	6.9	M	Dec. 5	...		25	25.39	2		45	17.2	M
28	...		4	25.63	...		45	7.0	R	25	...		25	22.89	2		45	16.6	M
38 <i>33 Persei α</i>										46 <i>Anon.</i>									
Jan. 22	...	3	15	20.04	...	40	35	22.2	M	Jan. 8	10.2	3	33	59.31	6	128	28	9.9	M
39 <i>Anon.</i>										47 <i>25 Tauri η, Alcyone.</i>									
Jan. 9	9.5	3	15	46.37	...	125	39	11.9	M	Jan. 3	...	3	39	59.67	...	66	17	10.4	M
40 <i>Anon.</i>										5	...		39	59.83	...		17	10.5	M
Jan. 12	9.6	3	17	14.02	...	127	4	50.1	M	6	...		39	59.79	...		17	10.9	M
15	9.5		17	13.91	...		4	49.9	M	10	...		39	59.85	...		17	9.5	M
41 <i>Anon.</i>										12	...		39	59.75	...		17	10.5	M
Jan. 16	8.8	3	17	42.12	...	130	43	28.4	M	23	...		39	59.76	...		17	10.4	M
42 <i>1 Tauri ο, Var. 5.</i>										24	...		39	59.64	...		17	12.9	M
Jan. 3	5.5	3	18	2.05	...	81	24	56.5	M	26	...		39	59.95	...		17	13.7	M
5	5.7		18	1.84	...		24	57.9	M	28	...		39	59.86	3		17	11.3	R
6	5.8		18	2.06	...		24	57.8	M	29	...		39	59.85	...		17	10.2	R
7	5.7		18	1.87	...		24	57.3	M	Dec. 25	...		39	59.75	...		17	10.6	M
8	5.7		18	1.95	3		24	56.0	M	48 <i>34 Eridani γ¹</i>									
43 <i>Anon.</i>										Jan. 3	...	3	52	9.11	...	103	52	4.0	M
Jan. 29	9.4	3	21	17.16	...	54	45	40.9	M	5	...		52	8.98	...		52	5.3	M
										6	...		52	8.90	...		52	5.9	M
										9	...		52	9.06	...		52	6.6	M
										10	...		52	9.03	...		52	6.5	M
										12	...		52	9.05	...		52	5.1	M
										13	...		52	9.25	...		52	7.3	R
										14	...		52	9.17	...		52	4.2	M
										15	...		52	8.98	...		52	5.3	M
										16	...		52	9.07	...		52	5.1	M

13.76

27.00

59.76

9.03

9.11

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
Jan. 17	...	3	52	9.06	...	103	52	5.6	M	53 87 Tauri α , Aldebaran.									
19	...	52	9.13	...	52	6.3	M	Jan. 21	...	4	28	41.35	...	73	44	47.8	R		
20	...	52	8.97	...	52	6.4	M	22	...	28	41.58	...	44	45.6	R				
21	...	52	8.95	...	52	6.6	M	23	...	28	41.48	...	44	46.1	R				
24	...	52	8.90	...	52	6.1	M	24	...	28	41.03	...	44	44.7	R				
26	...	52	8.94	...	52	6.1	M	30	...	28	41.21	...	44	45.3	R				
27	...	52	9.05	...	52	6.5	R	81	...	28	41.01	...	44	44.5	R				
28	...	52	9.05	6	52	7.8	R	Feb. 5	...	28	41.58	...	44	48.4	R	41.57			
29	...	52	8.96	...	52	6.4	R	6	...	28	41.43	...	44	46.8	R	46			
31	...	52	8.82	...	52	6.1	R	7	...	28	41.55	...	44	40.8	R				
49 R. P. L. 35.									Dec. 22	...	28	41.47	...	44	48.4	M			
Dec. 28	...	3	57	42.54	3	4	46	48.4	R	54 Lacaille 1551—2nd.									
50 38 Eridani α^1									Jan. 13	9.5	4	32	20.97 ⁰²	...	153	5	9.7	R	20.02
Jan. 1	...	4	5	42.90	...	97	10	4.9	M	55 Anon.									
7	...	5	42.79	...	10	3.8	M	Jan. 1	9.5	4	34	31.90	...	130	50	22.9	M		
9	...	5	42.88	...	10	3.3	M	3	9.9	34	32.05	...	50	18.6	M				
13	...	5	42.94	...	10	5.6	M	5	9.5	34	31.95	...	50	22.0	M				
22	...	5	42.94	...	10	4.7	M	56 Anon.											
24	...	5	42.75	...	10	4.9	M	Jan. 15	9.9	4	34	43.67	...	153	25	37.2	M		
27	...	5	42.91	...	10	2.2	R	57 Anon.											
28	...	5	42.88	6	10	3.4	R	Jan. 16	9.8	4	39	19.30	...	153	14	48.7	M		
30	...	5	42.99	...	10	3.6	R	17	9.7	39	19.29	...	14	45.8	M				
31	...	5	43.01	...	10	2.9	R	58 3 Aurigæ ι											
Feb. 3	...	5	43.03	...	10	3.5	R	Jan. 7	...	4	48	47.43	...	57	2	9.6	M		
51 74 Tauri ϵ									20	...	48	47.48	...	2	7.3	R			
Jan. 1	...	4	21	15.60	...	71	6	4.7	M	21	...	48	47.55	...	2	8.0	R		
3	...	21	15.63	...	6	3.1	M	22	...	48	47.36	...	2	6.9	R				
8	...	21	15.54	...	6	4.4	M	23	...	48	47.53	...	2	8.9	R				
26	...	21	15.74	...	6	4.7	M	24	...	48	47.60	...	2	7.5	R				
27	...	21	15.71	...	6	2.2	R	27	...	48	47.20	...	2	9.1	R				
Feb. 2	...	21	15.75	...	6	3.6	R	28	...	48	47.29	...	2	9.2	R				
3	...	21	15.52	...	6	4.9	R	30	...	48	47.38	...	2	7.2	R				
4	...	21	15.62	...	6	5.2	R	31	...	48	47.34	...	2	8.3	R				
5	...	21	15.65	...	6	4.1	R	Feb. 2	...	48	47.36	...	2	8.1	R				
6	...	21	15.58	...	6	3.0	R	7	...	48	47.30	...	2	7.6	R				
52 Anon.																			
Jan. 12	10.4	4	22	35.77	...	80	26	47.6	M										

42-44

43-62

5-54

15-60

41.57
46

20.02

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
47-23 33 30 23		Feb. 9	...	4 48 47 ²⁸	...	57	2	9.1	R	Jan. 22	...	5 18 19.89	...	61	30	4.9	R		
		10	...	48 47 ³³	...		2	8.8	R	23	...	18 19.73	...		30	2.4	R		
		11	...	48 47 ³³	...		2	9.6	R	24	...	18 19.81	...		30	4.6	R		
		14	...	48 47 ⁵³	...		2	10.9	R	29	...	18 19.81	...		30	5.0	R		
		Dec. 22	...	48 47.30	...		2	10.0	R	Feb. 2	...	18 19.67	...		30	8.5	R		
										3	...	18 19.66	...		30	3.5	R	19.89	
										4	...	18 19.55	...		30	5.4	R		
										5	...	18 19.54	...		30	5.1	R		
7.38 71 60 63 62 70		Jan. 13	...	5 0 7 ³⁸	...	112	32	31.4	R	7	...	18 19.66	...		30	6.0	R	.55	
		20	...	0 7.71	...		32	31.4	R	10	...	18 19.69	...		30	5.8	R	.55	
		23	...	0 7.60	...		32	28.5	R	11	...	18 19.69	...		30	6.0	R	.68	
		24	...	0 7.59	...		32	28.6	R	12	...	18 19.74	...		30	6.8	R	.64	
		29	...	0 7.52	...		32	32.0	R	14	...	18 19.77	...		30	5.9	R	.70	
		30	...	0 7.78	...		32	28.9	R	19	...	18 19.82	...		30	5.6	R	.80	
7.62 44 7.69 77 61 64 69 58 62 71		Feb. 3	...	0 7.66	...		32	32.1	R	20	...	18 19.71	...		30	5.1	R		
		4	...	0 7.49	...		32	30.7	R	21	...	18 19.66	...		30	5.4	R		
		6	...	0 7.72	...		32	31.5	R	63 <i>Anon.</i>									
		9	...	0 7.66	...		32	28.6	R										
		11	...	0 7.68	...		32	29.4	R										
		12	...	0 7.59	...		32	29.5	R										
		13	...	0 7.62	...		32	29.7	R										
		14	...	0 7.54	...		32	30.1	R										
		16	...	0 7.59	...		32	29.7	R										
		18	...	0 7.69	...		32	30.4	R										
		Jan. 12	9.8	5 20 4 ¹⁷	...	120	48	34.7	M										4.11
		13	10.8	20 4 ¹¹	4		48	34.8	R	.02									
		14	10.1	20 4 ²⁹	6		48	35.3	M	.09									
		64 <i>R. P. L. 40—s.p.</i>																	
		July 15	...	5 21 50.14	...	8	4	52	30.3	R	4.07								
		65 <i>34 Orionis δ, Var. 1.</i>																	
		Feb. 23	...	5 25 34.15	...	90	28	37.1	R										
		24	...	25 34.16	...		28	38.0	R										
		66 <i>11 Leporis α</i>																	
26.92 29.12 28.91		Feb. 14	...	5 27 10 ³⁶	...	107	54	51.8	R	10.36									
		19	...	27 10 ³⁴	...		54	50.8	R	.36									
		20	...	27 10 ⁴⁰	...		54	50.5	R										
		21	...	27 10 ³⁴	...		54	49.7	R										
28.98 29.03		67 <i>46 Orionis ε</i>																	
		Feb. 4	...	5 29 49.40	...	91	17	2.0	R										
		5	...	29 49 ²⁸	...		17	2.7	R	49.21									
		7	...	29 49 ²⁴	...		17	2.4	R										
		9	...	29 49 ²⁵	...		17	1.5	R	.44									
		10	...	29 49 ¹⁶	...		17	2.2	R	.20									
		68 <i>13 Aurigæ α, Capella.</i>																	
		Jan. 22	...	5 7 23.85	...	44	7	59.0	L										
		69 <i>19 Orionis β, Rigel.</i>																	
		Jan. 31	...	5 8 28.92	...	98	20	55.3	R										
		Feb. 2	...	8 28.88	...		20	55.2	R										
		6	...	8 28.94	...		20	55.6	R										
		10	...	8 29.06	...		20	53.9	R										
		13	...	8 28.89	...		20	56.0	R										
		16	...	8 28.89	...		20	55.6	R										
		18	...	8 28.98	...		20	55.5	R										
		19	...	8 29.02	...		20	54.2	R										
		20	...	8 28.96	...		20	56.6	R										
		70 <i>112 Tauri β.</i>																	
		Jan. 20	...	5 18 19.84	...	61	30	5.2	R										
		21	...	18 19.72	...		30	6.4	R										

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
49.28 27	Feb. 11	...	5	29	49 ²⁹ 17	...	91	17	2.8	R	73	<i>Anon.</i>								
	12	...			29 49 ²⁷ 21	...		17	4.2	R	Jan. 23	9.7	5	52	29.04	...	141	46	0.1	M
	18	...			29 49.14	...		17	2.1	R	74	<i>Anon.</i>								
.17	18	...			29 49-18	...		17	2.4	R	Jan. 24	9.6	5	54	50 ⁶¹ 49	...	137	45	13.2	M
	68 <i>R. P. L. 42.</i>										75 <i>Anon.</i>									
	Jan. 5	...	5	31	55.53	3	2	41	11.7	M	Jan. 5	9.5	5	55	9 ⁴⁰ 19	...	121	31	0.1	M
	15	...			31 58.02	3		41	12.8	M										
	16	...			31 58.55	3		41	12.5	M										
	17	...			31 55.06	3		41	13.9	M										
	19	...			31 55.92	3		41	11.6	M										
	20	...			31 55.20	3		41	11.9	M										
	21	...			31 54.87	3		41	12.1	M										
	23	...			31 55.26	2		41	13.8	M										
	24	...			31 55.35	3		41	14.4	M										
	26	...			31 56.13	3		41	13.4	M										
	69 <i>α Columbae.</i>										76 <i>R. P. L. 43.</i>									
	Dec. 26	...	5	35	5.14	...	124	8	31.6	R	Jan. 27	...	5	56	26.91	3	3	14	16.7	M
	70 <i>58 Orionis α</i>										29	...		56	27.03	7		14	15.0	R
21.02	Feb. 9	...	5	48	20 ²¹ 96	...	82	37	6.1	R	30	...		56	27.13	7		14	17.2	R
20.97	12	...			48 20 ⁹⁸ 7	...		37	6.2	R	31	...		56	28.85	7		14	16.0	R
21.05	13	...			48 21 ⁰⁶ 6	...		37	4.8	R	Feb. 2	...		56	27.39	3		14	15.6	R
.06	16	...			48 21 ⁰⁸ 6	...		37	4.4	R										
20.92	18	...			48 20 ⁹⁴ 7	...		37	6.4	R										
	19	...			48 20.90	...		37	4.6	R										
	20	...			48 21.01	...		37	6.3	R										
	21	...			48 20.91	...		37	5.5	R										
	23	...			48 20.97	...		37	3.9	R										
	24	...			48 20.97	...		37	6.6	R										
	25	...			48 20.90	...		37	6.2	R										
	26	...			48 21.00	...		37	5.3	R										
	Dec. 26	...			48 21.07	...		37	7.5	R										
	71 <i>Anon.</i>										77 <i>Anon.</i>									
20.75	Jan. 13	10.2	5	50	30 ¹⁵ 26	5	137	10	12.5	R	Feb. 5	9.0	6	0	13 ⁶⁸ 74	...	121	34	34.4	R
	19	10.4			50 30.27	...		10	12.7	M	7	9.3		0	13 ⁷⁰ 58	...		34	34.8	R
	72 <i>Anon.</i>										9	9.4		0	13 ⁷⁰ 49	...		34	33.0	R
4.53	Jan. 8	9.7	5	52	4.50	...	140	36	32.5	M										
	9	9.6			52 4.51	...		36	31.0	M										
	14	9.5			52 4 ⁵³ 23	...		36	30.7	M										
	73 <i>Lalande 12072—1st.</i>										78 <i>67 Orionis ν</i>									
	Dec. 15	7.6	6	13	59.96	...	68	51	28.1	M	Feb. 21	...	6	0	22.88	...	75	13	6.5	R
	18	7.6			13 59.65	...		51	27.9	M	23	...		0	22.77	...		13	6.7	R
	19	7.6			13 59.71	...		51	26.5	M	24	...		0	22.76	...		18	6.5	R
											25	...		0	22.77	...		18	7.9	R
											27	...		0	22.60	...		18	6.2	R
											28	...		0	22.65	...		13	7.6	R

[50.61]

[9.40]

13.68

13.70

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
80 13 Geminorum μ										87 23 Canis Majoris γ									
Feb. 23	...	6	15	20.27	...	67	25	27.0	R	Feb. 27	...	6	58	3.54	...	105	26	55.9	R
24	...	15	20.27	...	...	25	26.8	R	28	...	58	3.53	...	...	26	54.8	R	
25	...	15	20.30	...	...	25	24.7	R	Mar. 5	...	58	3.51	...	...	26	55.1	M	
26	...	15	20.27	...	...	25	26.5	R	12	...	58	3.52	...	...	26	54.8	R	
28	...	15	20.25	...	...	25	27.7	R	14	...	58	3.53	...	...	26	54.0	R	
Dec. 26	...	15	20.17	...	...	25	27.1	R	16	...	58	3.47	...	...	26	55.7	R	
81 24 Geminorum γ										88 R Canis Minoris, Var. 1.									
Feb. 27	...	6	30	26.07	...	73	29	43.6	R	Jan. 16	8.2	7	1	46.71	...	79	46	45.2	M
82 Bonn + 8°. 1429.										89 Bonn + 38°. 1778.									
Feb. 3	9.0	6	32	22.71	...	81	7	26.6	R	Feb. 14	9.6	7	24	5.86	...	51	58	41.3	R
5	9.0	32	22.88	...	...	7	28.9	R	18	9.6	24	5.93	...	...	58	37.4	R	
6	9.0	32	22.79	...	...	7	29.6	R	19	9.7	24	5.88	...	...	58	37.6	R	
Mar. 6	9.7	32	22.63	...	...	7	28.8	M	20	9.6	24	5.74	...	...	58	37.9	R	
7	9.5	32	22.98	...	...	7	27.7	R	90 Anon.									
83 9 Canis Majoris α , Sirius.										Feb. 21	10.5	7	24	12.22	...	41	55	52.6	R
Feb. 27	...	6	39	35.53	...	106	32	44.5	R	24	10.5	24	12.02	...	...	55	54.6	R
84 51 Cephei (Hav.)—s.p.										25	10.5	24	12.30	...	...	55	53.1	R
July 30	...	6	40	45.24	3	2	45	52.6	R	26	10.6	24	12.19	...	...	55	55.2	R
Aug. 3	...	40	44.69	2	...	45	53.7	M	91 Bonn + 48°. 1546.										
85 Anon.										Jan. 27	9.7	7	24	17.44	4	42	2	0.0	R
Feb. 24	8.6	6	42	56.76	...	130	36	59.5	R	29	9.7	24	17.57	4	...	1	59.7	R	
Mar. 3	8.4	42	56.77	...	...	36	58.0	M	31	9.7	24	17.32	6	...	1	59.0	R	
4	8.5	42	56.53	...	...	36	59.3	M	Feb. 2	9.6	24	17.69	...	...	1	57.5	R	
5	8.4	42	56.58	...	...	36	59.3	M	92 66 Geminorum α^1 , Castor.									
9	8.5	42	56.40	...	...	37	0.5	M	Mar. 6	...	7	26	38.38	...	57	50	16.8	M
86 21 Canis Majoris ϵ										9	...	26	38.15	...	...	50	19.2	M
Mar. 13	...	6	58	40.47	...	118	48	5.8	R	10	...	26	38.10	...	...	50	18.8	M
										11	...	26	38.16	...	...	50	18.1	M
										12	...	26	38.26	...	...	50	20.0	R
										13	...	26	38.17	...	...	50	18.5	R
										14	...	26	38.36	...	...	50	19.2	R
										16	...	26	38.29	...	...	50	19.2	R
										17	...	26	38.19	...	...	50	19.1	R
										19	...	26	38.10	...	...	50	18.1	R

22.77.
.86

3.50

5.85
.91
.86

33.17
.05

40.50

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.									
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"										
93 66 Geminorum α^3 , Castor.																												
Mar. 2	...	7	26	33.61	...	57	50	16.2	M	Feb. 12	9.9	7	35	17.42 ⁵⁶	...	68	11	8.7	R									
3	...	26	38.56	...	50	14.0	M	13	9.9										35	17.32 ³⁴	...	11	10.5	R				
4	...	26	38.42	...	50	14.3	M																					
5	...	26	38.53	...	50	15.7	M																					
94 R. P. L. 45.																												
Jan. 12	...	7	27	44.90 44.10	2	1	0	15.1	M	Feb. 18	9.9	7	35	46.48 ⁰	...	66	17	16.9	R									
Feb. 8	...	27	47.61	3	0	16.1	R	25	10.0										35	46.20	...	17	14.8	R				
5	...	27	47.56	3	0	14.8	R																					
6	...	27	47.38	3	0	15.1	R																					
95 10 Canis Minoris α , Procyon.																												
Feb. 26	...	7	32	42.22	...	84	27	12.2	R	Mar. 19	10.6	7	37	56.73	...	68	31	1.0	R									
28	...	32	42.37	...	27	13.6	R	20	10.5										37	57.04	...	30	57.1	R				
Mar. 2	...	32	42.14 ²⁰	...	27	12.8	M	31	10.7										37	57.05	...	30	56.1	R				
3	...	32	42.26	...	27	11.7	M																					
5	...	32	42.29	...	27	12.8	M																					
6	...	32	42.20	...	27	11.1	M																					
7	...	32	42.31	...	27	12.1	R																					
11	...	32	42.22	...	27	11.8	M																					
12	...	32	42.38	...	27	13.8	R																					
13	...	32	42.38	...	27	11.7	R																					
14	...	32	42.37	...	27	11.5	R																					
17	...	32	42.35	...	27	13.8	R																					
25	...	32	42.19	...	27	11.4	R																					
96 Anon.																												
Feb. 10	9.8	7	34	39.51 ⁴⁹	...	68	10	14.9	R										Jan. 28	9.0	7	41	53.40	4	148	9	45.9	R
11	9.8	34	39.58 ³	...	10	11.9	R																					
97 Anon.																												
Feb. 21	10.5	7	35	6.81	...	68	26	16.2	R	Jan. 29	9.1	7	42	17.17	...	152	59	22.6	R									
23	10.5	35	6.86	...	26	13.0	R	Feb. 13	9.0										42	17.25 ²³	...	59	20.3	R				
98 Anon.																												
Feb. 12	9.9	7	35	17.42 ⁵⁶	...	68	11	8.7	R																			
13	9.9	35	17.32 ³⁴	...	11	10.5	R																					
99 Anon.																												
Feb. 18	9.9	7	35	46.48 ⁰	...	66	17	16.9	R																			
25	10.0	35	46.20	...	17	14.8	R																					
100 78 Geminorum β , Pollux.																												
Mar. 2	...	7	37	36.32 ⁰	...	61	40	19.6	M	Mar. 2	...	7	37	36.32 ⁰	...	61	40	19.6	M									
3	...	37	36.31	...	40	18.4	M	3	...										37	36.31	...	40	18.4	M				
4	...	37	36.25	...	40	17.4	M	4	...										37	36.25	...	40	17.4	M				
6	...	37	36.26	...	40	17.5	M	6	...										37	36.26	...	40	17.5	M				
11	...	37	36.33	...	40	20.2	M	11	...										37	36.33	...	40	20.2	M				
101 Anon.																												
Jan. 26	8.6	7	37	53.67	...	130	59	26.8	R																			
102 Anon.																												
Mar. 19	10.6	7	37	56.73	...	68	31	1.0	R																			
20	10.5	37	57.04	...	30	57.1	R																					
31	10.7	37	57.05	...	30	56.1	R																					
103 Anon.																												
Mar. 12	10.4	7	38	22.91 ⁷⁷	...	68	29	56.9	R	Mar. 12	10.4	7	38	22.91 ⁷⁷	...	68	29	56.9	R									
13	10.5	38	22.84 ⁷⁵	...	29	54.1	R	13	10.5										38	22.84 ⁷⁵	...	29	54.1	R				
14	10.5	38	22.82	...	29	52.9	R	14	10.5										38	22.82	...	29	52.9	R				
16	10.3	38	22.77	...	29	52.6	R	16	10.3										38	22.77	...	29	52.6	R				
17	10.5	38	22.89	...	29	53.9	R	17	10.5										38	22.89	...	29	53.9	R				
104 Anon.																												
Jan. 28	9.0	7	41	53.40	4	148	9	45.9	R																			
105 Anon.																												
Jan. 29	9.1	7	42	17.17	...	152	59	22.6	R	Jan. 29	9.1	7	42	17.17	...	152	59	22.6	R									
Feb. 13	9.0	42	17.25 ²³	...	59	20.3	R	Feb. 13	9.0										42	17.25 ²³	...	59	20.3	R				

17.35
24

46.40

36.20

22.77
75

17.53

49.90
50.93
51.20
51.21

51.59
51.56
51.85
51.18

42.20

32

34

30

21.49
59

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
106 <i>R. P. L. 49.</i>									111 <i>Lacaille 3082.</i>										
Feb. 7	...	7	46	28 ¹⁵	3	5	35	10 ¹	R	Mar. 20	7.6	7	52	3.51	...	130	24	6.6	R
9	...	46	28 ⁵³	29 ³⁰	3	...	35	10 ⁸	R	28	7.6	52	3.65	24	4.5	R	
<i>R. P. L. 49—s.p.</i>									...										
Sep. 10	...	7	46	28.65	3	5	35	10.9	R	112 <i>Anon.</i>									
16	...	46	27.90	...	3	...	35	9.1	R	Mar. 21	10.0	7	52	17.94	4	151	42	5.0	R
17	...	46	27.29	...	3	...	35	11.3	R	113 <i>Anon.</i>									
26	...	46	27.57	...	3	...	35	12.5	R	Jan. 29	8.5	7	53	8.15	6	144	43	16.9	R
Oct. 5	...	46	28.87	...	2	...	35	10.8	M	Feb. 3	8.3	53	8.52	43	16.8	R	
7	...	46	29.29	...	2	...	35	11.3	M	114 <i>6 Caneri.</i>									
12	...	46	29.14	...	3	...	35	10.4	M	Feb. 26	...	7	55	46.77	...	61	51	16.3	R
15	...	46	28.24	...	3	...	35	9.3	M	Mar. 17	...	55	46.81	51	16.7	R	
17	...	46	29.85	...	2	...	35	10.8	M	115 <i>Anon.</i>									
107 <i>Brisbane 1791.</i>									116 <i>Anon.</i>										
Mar. 3	8.4	7	46	32.69	...	144	26	9.4	M	Feb. 25	10.0	8	0	42.78	4	78	29	30.5	R
108 <i>Anon.</i>									117 <i>Anon.</i>										
Mar. 4	8.9	7	50	4.62	...	130	23	33.0	M	Feb. 11	10.0	8	1	59.55	...	69	14	46.3	R
13	9.0	50	4.88	...	...	29	38.3	R	118 <i>15 Argus.</i>								
14	9.0	50	4.76	23	33.6	R	Mar. 9	...	8	2	10.63	...	113	56	38.4	M	
16	9.0	50	4.77	...	...	23	35.6	R	10	...	2	10.59	...	...	56	32.1	M
17	9.0	50	4.61	...	...	23	34.6	R	13	...	2	10.67	...	...	56	32.6	R
109 <i>Anon.</i>									...										
Mar. 7	8.9	7	50	47.49 ⁵²	...	129	24	14.6	R	14	...	2	10.84	56	32.8	R	
10	8.5	50	47.46	...	...	24	13.3	M	16	...	2	10.72	...	...	56	33.0	R
11	8.5	50	47.14	...	...	24	13.7	M	20	...	2	10.54	...	...	56	32.1	R
12	8.6	50	47.38 ⁴⁰	...	...	24	13.7	R	23	...	2	10.54	...	...	56	32.7	R
110 <i>Anon.</i>									...										
Mar. 19	9.4	7	51	47.85	...	151	38	20.2	R	...									
24	9.6	51	47.80	...	...	38	29.4	R	...								
27	9.5	51	47.96	...	...	38	28.5	R	...								
30	9.6	51	48.09	...	...	38	28.6	R	...								

26.48

4.63

47.52

47.40

18.41

8.45

40.57
31

59.58

10.64

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
119 <i>Anon.</i>										127 <i>11 Hydrae ε</i>									
Jan. 30	9.3	8	11	2.28	5	77	39	35.2	R	Mar. 4	...	8	40	6.19	...	88	7	13.4	M
										6	...	40	6.25	...	...	7	12.2	M	
										7	...	40	6.25	...	...	7	12.8	R	6.24
										9	...	40	6.16	...	...	7	13.2	M	
										10	...	40	6.06	...	...	7	13.1	M	
										12	...	40	6.25	...	...	7	13.1	R	6.17
										17	...	40	6.23	...	...	7	10.9	R	
										24	...	40	6.11	...	...	7	11.5	R	
										25	...	40	6.23	...	...	7	12.4	R	
										28	...	40	6.06	...	...	7	12.2	R	
										Apl. 1	...	40	6.11	...	...	7	11.1	M	
										4	...	40	5.91	...	...	7	11.7	R	
										8	...	40	6.16	...	...	7	14.2	R	
120 <i>Anon.</i>										128 <i>R. P. L. 60.</i>									
Feb. 16	9.4	8	13	18.74	...	130	47	24.1	R	Feb. 20	...	8	48	41.55	3	5	19	7.7	R
18	9.5	13	18.45	...	47	25.2	R		28	...	48	41.08	3	19	8.2	R			
121 <i>Anon.</i>										129 <i>Anon.</i>									
Feb. 25	9.3	8	13	41.75	...	131	43	0.1	R	Mar. 5	8.7	8	54	19.21	...	132	57	54.4	M
122 <i>Anon.</i>										130 <i>82 Cancri π²</i>									
Mar. 21	9.3	8	13	48.14	...	181	44	48.9	R	Feb. 27	7.2	9	8	16.60	...	74	32	16.6	R
23	9.6	13	48.09	...	44	52.4	R												
24	9.5	13	48.08	...	44	52.1	R												
25	9.8	13	48.16	...	44	51.9	R												
123 <i>33 Cancri η</i>										131 <i>Anon.</i>									
Mar. 9	...	8	25	25.23	...	69	7	57.9	M	Feb. 12	9.5	9	11	28.19	...	70	43	16.3	R
10	...	25	25.35	...	7	56.7	M		13	9.6	11	28.27	...	43	14.0	R	26.14		
11	...	25	25.20	...	7	55.4	M												
24	...	25	25.11	...	7	55.9	R												
28	...	25	25.26	...	7	57.6	R												
30	...	25	25.26	...	7	57.4	R												
31	...	25	25.20	...	7	56.7	R												
124 <i>Anon.</i>										132 <i>83 Cancri.</i>									
Feb. 7	9.3	8	26	11.45	...	61	49	42.5	R	Mar. 7	...	9	11	56.72	...	71	45	43.2	R
13	9.9	26	11.50	...	49	44.1	R		20	...	11	56.92	...	45	41.4	R	56.70		
14	10.0	26	11.68	...	49	40.6	R		21	...	11	56.72	...	45	42.0	R			
125 <i>Anon.</i>										132 <i>83 Cancri.</i>									
Feb. 19	9.0	8	29	22.18	...	70	42	41.6	R	Apl. 1	...	11	56.78	...	45	42.3	M		
										6	...	11	56.86	...	45	43.5	R		
										11	...	11	56.78	...	45	43.0	R		
126 <i>Taylor 3710.</i>																			
Feb. 25	8.0	8	31	41.68	...	141	23	7.6	R										

18.72

11.50
11.61

6.24

6.17

26.14
.19

56.70

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
133 <i>Anon.</i>										141 <i>25 Ursæ Majoris θ</i>										
Feb. 16	9.8	9	13	29.76	...	70	34	39.7	R	Mar. 3	...	9	24	25.17	...	37	44	54.9	M	
										4	...			24	25.22	...		44	58.0	M
134 <i>Anon.</i>										142 <i>Anon.</i>										
Feb. 20	9.4	9	16	38.04	...	139	3	31.3	R	Feb. 21	9.4	9	24	29.78	...	158	43	22.3	R	
21	9.4		16	38.39	...		3	33.9	R											
23	9.4		16	38.46	...		3	32.3	R											
135 <i>Anon.</i>										143 <i>R. P. L. 69.</i>										
Feb. 11	7.8	9	20	2.27	...	75	9	3.8	R	Feb. 10	...	9	36	5.63	3	2	49	29.1	R	
										25	...		36	5.19	3		49	31.3	R	
136 <i>Anon.</i>										<i>R. P. L. 69—s.p.</i>										
Feb. 19	8.7	9	20	8.71	...	125	23	44.2	R	Sep. 14	...	9	36	5.22	2	2	49	30.0	R	
										21	...		36	4.47	3		49	30.2	R	
										Oct. 16	...		36	4.32	3		49	31.5	M	
										17	...		36	4.30	2		49	31.9	M	
										31	...		36	4.33	3		49	31.1	M	
										Nov. 4	...		36	4.11	3		49	31.3	M	
137 <i>Anon.</i>										144 <i>17 Leonis ε</i>										
Feb. 25	8.3	9	20	46.13	...	137	30	29.9	R	Mar. 19	...	9	38	41.38	...	65	38	48.1	R	
26	8.5		20	46.01	...		30	30.6	R	21	...		38	41.34	...		38	48.6	R	
										23	...		38	41.35	...		38	50.3	R	
										25	...		38	41.36	...		38	49.0	R	
										27	...		38	41.73	...		38	49.6	R	
										Apl. 4	...		38	41.56	...		38	50.8	R	
										9	...		38	41.79	...		38	50.0	R	
										11	...		38	41.74	...		38	49.4	R	
										15	...		38	41.80	...		38	48.9	R	
										23	...		38	41.69	...		38	47.9	R	
138 <i>Anon.</i>										145 <i>Anon.</i>										
Feb. 27	8.4	9	20	51.93	...	125	25	31.8	R	Feb. 19	9.5	9	44	27.02	...	148	32	42.2	R	
										Feb. 20	9.5	9	44	28.23	...		32	41.0	R	
139 <i>Anon.</i>										146 <i>R. P. L. 70—s.p.</i>										
Feb. 28	9.0	9	21	0.15	...	158	40	48.1	R	Aug. 24	...	9	48	4.98	3	5	28	39.2	M	
										Oct. 16	...		48	5.07	3		28	39.8	M	
										31	...		48	7.36	3		28	38.5	M	
										Nov. 4	...		48	6.56	3		28	39.2	M	
140 <i>30 Hydræ α, Var. 2.</i>																				
Mar. 16	...	9	21	23.70	...	98	6	40.1	R											
19	...		21	23.69	...		6	47.3	R											
20	...		21	23.70	...		6	47.3	R											
27	...		21	23.66	...		6	47.0	R											
30	...		21	23.61	...		6	48.5	R											
31	...		21	23.64	...		6	49.4	R											
Apl. 1	...		21	23.70	...		6	48.4	M											
6	...		21	23.59	...		6	50.0	R											
13	...		21	23.69	...		6	47.5	R											
16	...		21	23.69	...		6	48.5	R											
20	...		21	23.65	...		6	46.0	M											

24.70

2.26

5.59

4.65

7.01

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Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
162 <i>32 Leonis a, Regulus.</i>									Apl. 17	...	10	42	38-00	...	78	47	17-4	R	
Apl. 4	...	10	1	39-44	...	77	25	4-2	R	23	...	42	38-02	...	47	15-7	R		
8	...	1	39-56	...		25	4-5	R	25	...	42	38-01	...	47	17-3	R			
11	...	1	39-62	...		25	5-2	R	29	...	42	37-99	...	47	18-0	R			
15	...	1	39-49	...		25	3-8	R	168 <i>Anon.</i>										
20	...	1	39-66	...		25	2-6	M	Mar. 4	9-9	10	42	54-40	6	75	7	59-5	M	
21	...	1	39-62	...		25	5-3	M	169 <i>Anon.</i>										
22	...	1	39-66	...		25	6-0	R	Mar. 3	8-6	10	43	1-98	...	141	7	37-5	M	
24	...	1	39-65	...		25	2-0	R	170 <i>Anon.</i>										
163 <i>33 Leonis</i>									Apl. 27	9-9	10	47	59-10	...	148	51	43-6	R	
Feb. 27	8-5	10	3	53-69	...	73	40	30-1	R	20	10-3	47	58-39	...	51	47-0	R		
164 <i>R. P. L. 72.</i>									171 <i>R Crateris, Var. 1.</i>										
Feb. 21	...	10	11	0-00	3	5	6	37-4	R	Mar. 16	9-0	10	54	21-74	...	107	38	57-3	R
23	...	10	58-92	3		6	34-5	R	19	9-0	54	21-63	...	38	56-3	R			
24	...	10	59-05	3		6	34-0	R	172 <i>Anon.</i>										
165 <i>41 Leonis γ¹</i>									Mar. 14	9-1	10	54	31-66	...	107	41	27-6	R	
Mar. 19	...	10	13	1-36	...	69	31	18-9	R	173 <i>R. P. L. 79.</i>									
23	...	13	1-47	...		31	19-9	R	Mar. 7	...	10	53	3-18	3	1	40	36-8	R	
Apl. 6	...	13	1-41	...		31	19-8	R	Mar. 6	...	10	58	3-67	3	1	40	34-4	M	
14	...	13	1-41	...		31	19-5	R	9	...	58	4-97	3	40	34-7	M			
20	...	13	1-36	...		31	18-7	M	10	...	58	5-39	3	40	34-7	M			
21	...	13	1-14	...		31	17-3	M	11	...	58	4-93	3	40	35-4	M			
24	...	13	1-29	...		31	17-3	R	12	...	58	2-45	3	40	36-7	R			
166 <i>47 Leonis ρ</i>									13	...	58	2-78	3	40	35-6	R			
Apl. 9	...	10	26	10-53	...	30	2	41-9	R	174 <i>63 Leonis χ</i>									
17	...	26	10-48	...		2	42-5	R	Mar. 21	...	10	58	30-97	...	81	58	58-3	R	
22	...	26	10-54	...		2	45-4	R	30	...	58	30-97	...	58	59-4	R			
25	...	26	10-46	...		2	42-9	R	Apl. 13	...	58	30-98	...	58	59-0	R			
29	...	26	10-56	...		2	41-0	R	17	...	58	30-94	...	58	59-0	R			
167 <i>53 Leonis λ.</i>									27	...	58	31-21	...	59	0-2	R			
Mar. 27	...	10	42	38-03	...	78	47	18-0	R										
Apl. 13	...	42	38-00	...		47	17-8	R											
14	...	42	37-97	...		47	17-9	R											
15	...	42	37-94	...		47	19-3	R											

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
175 Taylor 5092.										184 Anon.									
Mar. 4	8.8	11	5	45.09	...	143	52	28.5	M	Mar. 13	9.9	11	27	19.86 ^{11.05}	...	151	44	49.4	R
5	8.6	5	45.39	...		52	23.6	M	14	9.8	27	10.74	...		44	52.5	R		
176 Anon.										185 Anon.									
Mar. 16	9.9	11	6	12.28	...	83	53	41.3	R	Mar. 16	10.0	11	27	14.88	...	23	20	52.6	R
177 68 Leonis δ										186 Anon.									
Apl. 16	...	11	7	24.26	...	68	47	11.8	R	Mar. 17	9.0	11	27	31.94	...	23	0	50.3	R
22	...	7	24.28	...		47	11.1	R	19	9.2	27	31.77	...		0	48.2	R		
27	...	7	24.25	...		47	10.8	R	20	...	27	32.02	...		0	49.9	R		
178 73 Leonis η.										187 94 Leonis β, Deneb.									
Mar. 6	6.0	11	9	16.21	...	74	0	19.0	M	May 19	...	11	42	37.86	...	74	43	24.9	R
7	5.7	9	16.47	...		0	18.9	R	188 Bonn + 5°. 2550.										
9	6.0	9	16.22	...		0	20.8	M	Mar. 12	9.6	11	44	38.12 ⁸⁸	...	84	48	10.8	R	
10	5.9	9	16.19	4		0	20.1	M	13	9.9	44	38.08	...	48	8.1	R			
179 Anon.										189 Groombridge 1830.									
Mar. 12	9.9	11	9	55.24 ³⁴	...	145	58	31.1	R	Mar. 21	...	11	45	42.75	...	51	22	39.8	R
180 Anon.										23	7.5	45	43.00	...	22	40.2	R		
Mar. 14	9.3	11	10	59.45	...	141	11	51.7	R	25	7.7	45	42.96	...	22	40.4	R		
16	10.0	10	59.51	...		11	51.2	R	27	7.9	45	43.05	...	22	40.2	R			
181 12 Crateris δ										30	8.0	45	42.92	...	22	39.0	R		
Apl. 16	...	11	13	2.58	...	104	5	49.3	R	190 64 Ursæ Majoris γ									
27	...	13	2.49	...		5	49.3	R	Apl. 4	...	11	47	11.82	...	35	36	15.1	R	
182 Anon.										191 Bonn + 4°. 2550.									
Mar. 7	...	11	23	39.72 ¹⁰	...	142	55	53.4	R	Mar. 30	10.3	11	51	4.14	...	85	22	40.5	R
183 Cordoba 15790.										Apl. 4	10.0	51	3.80	...	22	40.1	R		
Mar. 10	8.7	11	27	3.95 ⁸⁵	...	151	7	24.6	M	6	10.1	51	4.02	...	22	40.7	R		
12	8.7	27	4.15 ⁸⁵	...		7	21.4	R	192 R. P. L. 87.										
										Mar. 14	...	11	52	57.30	3	2	18	14.8	R
										16	...	52	55.62	3	18	16.6	R		
										17	...	52	55.97	3	18	18.0	R		
										19	...	52	56.12	3	18	13.8	R		
										20	...	52	56.11	5	18	15.3	R		

11.05

16.45

36.05
03

55.34

34.90

4.35

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
R. P. L. 87—s.p.										201 Anon.										
54.41 56.68	Nov. 20	...	11	52	^{54.57} 59.50	2	2	18	14.0	R	Apl. 16	9.0	12	7	0.03	...	150	29	40.8	R
	21	...		52	^{56.68} 59.70	3		18	14.9	R	17	9.0		6	59.87	...		29	38.8	R
											23	9.1		6	59.98	...		29	40.3	R
193 Bonn + 3°. 2592.										202 Anon.										
47.67	Mar. 12	9.0	11	57	⁴⁷ 47.41	...	86	23	41.0	R	Apl. 13	9.4	12	7	0.00	...	142	54	2.2	R
194 R. P. L. 89—s.p.										203 R. P. L. 90.										
	Oct. 30	...	11	58	23.02	3	3	42	54.2	M	Mar. 21	...	12	7	17.14	3	2	22	1.0	R
195 W. B. E. XI. 936.										204 Anon.										
34.38	Mar. 13	9.0	11	58	³⁸ 38.45	...	85	55	18.8	R	Mar. 23	...		7	17.73	3		22	1.2	R
196 9 Virginis o										205 69 Ursæ Majoris δ										
	Mar. 25	...	11	58	47.59	...	80	34	1.7	R	May 30	...		7	19.07	3		22	0.2	R
	27	5.0		58	47.61	...		33	59.8	R	R. P. L. 90—s.p.									
	Apl. 8	4.5		58	47.47	...		34	2.5	R	Oct. 10	...	12	7	17.80	2	2	22	4.0	M
197 2 Corvi ε										206 Anon.										
	Apl. 24	...	12	3	38.94	...	111	55	6.4	R	Nov. 2	...		7	^{15.88} 15.88	3		22	3.1	M
	25	...		3	38.87	...		55	8.2	R	12	...		7	^{16.35} 16.17	3		22	0.4	R
	May 19	...		3	38.87	...		55	7.0	R	13	...		7	^{15.88} 17.01	3		22	2.1	R
	21	...		3	38.74	...		55	6.7	R	17	...		7	^{18.02} 18.02	3		22	2.5	R
	23	...		3	38.82	...		55	7.9	R	20	...		7	^{18.24} 18.03	3		22	2.4	R
											21	...		7	^{18.48} 18.50	3		22	2.5	R
198 Anon.										204 Anon.										
	Mar. 14	9.0	12	4	9.47	...	146	0	24.0	R	Mar. 13	...	12	8	¹⁵ 8.64	...	90	17	34.7	R
199 Anon.										205 69 Ursæ Majoris δ										
	Mar. 16	...	12	4	20.93	...	145	59	43.4	R	Apr. 21	...	12	9	11.03	...	32	16	2.6	M
200 Anon.										206 Anon.										
	Mar. 25	9.0	12	6	38.43	...	110	2	10.7	R	May 20	9.8	12	9	25.58	...	97	16	44.8	R
	31	9.0		6	38.40	...		2	10.5	R	21	9.8		9	25.78	...		16	46.0	R
	Apl. 4	9.2		6	38.64	...		2	9.8	R	22	9.8		9	25.53	...		16	43.0	R
	6	9.2		6	38.66	...		2	9.7	R										

15.88
16.35
18.02
18.24
18.48

8.15

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension. 1874.			No. of Wires.	Mean Polar Distance. 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension. 1874.			No. of Wires.	Mean Polar Distance. 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
207 <i>Lalande 22983.</i>										216 <i>Anon.</i>									
Apl. 9	8.5	12	9	37.80	...	96	45	56.4	R	Mar. 19	...	12	20	24.32	...	124	17	27.9	R
11	8.5		9	37.78	...		45	58.0	R										
208 <i>Lalande 22993.</i>										217 <i>O. A. S. 12164.</i>									
Mar. 17	8.6	12	9	53.60	...	96	49	51.7	R	Apl. 16	8.3	12	20	29.49	...	111	41	35.6	R
										17	8.0		20	29.63	...		41	34.8	R
										21	8.0		20	29.35	...		41	34.5	R
										23	8.1		20	29.49	...		41	32.7	R
										25	8.3		20	29.46	...		41	35.1	R
209 <i>W. B. E. XII. 139.</i>										218 <i>Anon.</i>									
Apl. 24	9.3	12	10	41.14	...	87	35	13.1	R	Mar. 23	8.0	12	21	39.41	...	145	45	37.5	R
27	9.1		10	41.11	...		35	14.0	R										
May 19	9.1		10	41.19	...		35	15.6	R										
210 <i>W. B. E. XII. 155.</i>										219 <i>Anon.</i>									
Mar. 25	9.0	12	11	31.03	...	87	43	27.4	R	Mar. 21	9.3	12	24	25.04	...	91	43	9.6	R
Apl. 6	8.2		11	31.06	...		43	26.9	R	25	9.4		24	25.04	...		43	10.5	R
8	8.0		11	30.97	...		43	27.1	R	31	9.4		24	25.28	...		43	9.5	R
211 <i>13 Virginis.</i>										220 <i>Anon.</i>									
Apl. 14	6.2	12	12	12.58	...	90	5	10.6	R	Apl. 6	10.0	12	25	8.42	...	151	43	20.3	R
										8	...		25	8.32	...		43	17.6	R
212 <i>Anon.</i>										221 <i>Anon.</i>									
Mar. 20	8.8	12	13	24.73	...	108	34	26.2	R	Apl. 11	9.6	12	27	44.57	...	38	3	44.4	R
Apl. 13	8.6		13	24.68	...		34	28.5	R	13	9.6		27	44.69	...		3	42.5	R
										14	9.8		27	44.53	...		3	43.9	R
										15	9.6		27	44.63	...		3	43.2	R
213 <i>15 Virginis η</i>										222 <i>9 Corvi β</i>									
Apl. 29	...	12	18	27.51	...	89	57	56.9	R	May 20	...	12	27	46.24	...	112	41	57.5	R
May 22	...		18	27.57	...		57	55.7	R	21	...		27	46.31	...		41	57.7	R
23	...		18	27.61	...		57	58.0	R	22	..		27	46.28	...		41	57.7	R
25	...		18	27.59	...		57	58.1	R	29	...		27	46.09	...		41	58.0	R
214 <i>Anon.</i>										223 <i>Anon.</i>									
Mar. 16	...	12	19	11.35	...	143	33	27.2	R	Mar. 20	9.0	12	23	22.17	...	140	53	50.6	R
										Apl. 4	8.9		23	22.30	...		53	54.2	R
215 <i>α Crucis—1st.</i>										224 <i>Anon.</i>									
Apl. 8	...	12	19	35.59	...	152	23	57.8	R	Mar. 20	9.0	12	33	22.52	...	143	10	40.6	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
225 29 <i>Virginis</i> γ^2 (South.)										May 28	...	13	3	25.72	...	94	51	56.2	R
Mar. 25	...	12	35	16.82	...	90	45	32.5	R	29	...	3	25.59	...	51	56.6	R		
Apl. 6	...	35	16.61	...		45	29.2	R	30	...	3	25.54	...	51	55.9	R			
15	...	35	16.57	...		45	31.6	R	June 3	...	3	25.59	...	51	57.9	M			
16	...	35	16.63	...		45	32.7	R	5	...	3	25.65	...	51	55.1	M			
									6	...	3	25.64	...	51	58.1	M			
									17	...	3	25.69	5	51	57.3	M			
226 29 <i>Virginis</i> γ^1 (North.)																			
Mar. 21	...	12	35	16.99	...	90	45	32.0	R	231 R. P. L. 101.									
227 R. P. L. 98.										Apl. 21	...	13	8	39.66	3	1	40	28.2	M
Mar. 31	...	12	48	5.88	3	5	53	49.3	R	23	...	8	39.65	3	40	29.5	R		
Apl. 4	...	48	5.42	3		53	49.8	R	24	...	8	38.64	3	40	28.6	R			
6	...	48	5.45	7		53	49.6	R	27	...	8	37.94	3	40	30.0	R			
8	...	48	5.78	7		53	50.8	R	May 19	...	8	37.36	3	40	29.7	R			
11	...	48	6.35	7		53	49.0	R	21	...	8	38.01	3	40	29.3	R			
13	...	48	6.26	7		53	48.8	R	22	...	8	38.36	3	40	28.8	R			
14	...	48	5.68	7		53	49.6	R	232 67 <i>Virginis</i> α , <i>Spica</i> .										
15	...	48	6.02	7		53	49.1	R	May 20	...	13	18	33.31	...	100	30	10.4	R	
16	...	48	6.35	7		53	50.9	R	22	...	18	33.27	...	30	9.6	R			
17	...	48	6.52	7		53	51.5	R	29	...	18	33.86	...	30	9.5	R			
R. P. L. 98—s.p.										June 3	...	18	33.31	...	30	12.2	M		
Oct. 7	...	12	48	6.45	3	5	53	52.8	M	5	...	18	33.38	...	30	11.3	M		
Nov. 18	...	48	7.62	3		53	51.9	R	6	...	18	33.36	...	30	10.1	M			
Dec. 15	...	48	5.76	3		53	53.4	M	9	...	18	33.31	...	30	10.5	M			
16	...	48	4.94	3		53	49.9	M	12	...	18	33.31	...	30	10.7	M			
18	...	48	5.15	3		53	52.0	M	19	...	18	33.33	...	30	10.8	M			
19	...	48	4.97	3		53	51.9	M	233 Stone 7365.										
228 R. P. L. 99—s.p.										Apl. 8	...	13	19	38.07	...	143	29	54.3	R
Dec. 2	...	12	48	^{14.10} 15.32	3	5	54	7.3	R	9	...	19	37.81	...	29	52.3	R		
229 12 <i>Canum Venaticorum</i> α										234 Lacaille 5546.									
June 3	...	12	50	7.94	...	51	0	2.8	M	Apl. 15	9.0	13	20	17.98	...	143	30	36.9	R
17	...	50	7.81	...		0	1.6	M	16	9.0	20	17.87	...	30	37.2	R			
230 51 <i>Virginis</i> θ										235 Anon.									
May 20	...	13	3	25.70	...	94	51	57.3	R	Mar. 31	9.5	13	22	22.35	...	112	31	3.5	R
23	...	3	25.51	...		51	57.8	R	Apl. 4	9.4	22	22.34	...	31	5.1	R			
25	...	3	25.57	...		51	56.4	R											

25.75

35.37
-18
.43

7.42

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				o.	'	"		o.	'	"	
236 <i>x</i> Virginis, Var. 10.										241 <i>Anon.</i>									
Apl. 9	...	13	27	58.80	...	102	34	2.6	R	Apl. 8	9.1	13	35	17.10	...	136	43	10.2	R
11	5.8	27	58.59	...		34	2.7	R	9	...		35	17.03	...		43	9.4	R	
13	6.3	27	58.62	...		34	1.1	R	June 5	9.5	35	17.19	5		43	11.2	M		
14	...	27	58.50	...		34	2.3	R	6	9.6	35	17.17	...		43	11.5	M		
15	6.2	27	58.61	...		34	1.7	R	8	9.4	35	16.89	...		43	12.8	M		
16	6.0	27	58.82	...		34	2.3	R	242 <i>Bonn</i> + 0°. 3090.										
17	6.0	27	58.73	...		34	2.4	R	Mar. 31	9.5	13	35	30.31	...	89	28	38.7	R	
20	6.0	27	58.62	...		34	1.9	M	243 <i>Bonn</i> + 0°. 3091.										
21	6.5	27	58.67	...		34	2.5	M	May 21	10.4	13	36	28.14	...	89	38	0.9	R	
23	6.0	27	58.63	...		34	0.6	R	30	10.0	36	28.13	...		38	1.7	R		
237 79 Virginis ζ										244 <i>Anon.</i>									
May 23	...	13	28	16.48	...	89	57	2.7	R	May 20	9.3	13	37	9.69	...	144	41	22.5	R
25	...	28	16.42	...		57	2.6	R	245 <i>Taylor</i> 6363.										
28	...	28	16.60	...		57	2.7	R	May 19	8.1	13	37	17.93	...	147	36	30.4	R	
30	...	28	16.42	...		57	1.2	R	246 <i>Lacaille</i> 5661.										
June 11	...	28	16.48	...		57	2.6	M	June 4	7.9	13	37	40.32	...	138	9	32.5	M	
12	...	28	16.44	...		57	3.4	M	18	7.6	37	40.36	5		9	33.2	M		
238 <i>Taylor</i> 6294.										247 <i>Anon.</i>									
Apl. 24	7.0	13	29	46.89	...	135	46	59.8	R	Apl. 11	9.5	13	38	4.90	...	123	51	6.8	R
27	6.0	29	47.01	...		47	1.7	R	May 22	9.9	38	4.97	...		51	7.9	R		
May 19	6.0	29	47.05	...		47	1.5	R	248 <i>Anon.</i>										
20	6.3	29	46.98	...		47	1.1	R	Apl. 4	8.9	13	39	15.83	...	152	40	4.0	R	
21	6.8	29	47.02	...		47	0.6	R	249 <i>Anon.</i>										
239 <i>Anon.</i>										Apl. 20	8.7	13	39	44.34 ⁶¹	...	138	53	10.9	M
Apl. 4	8.0	13	33	27.28	...	187	40	46.2	R	250 <i>Anon.</i>									
13	8.1	33	27.33	...		40	44.9	R	Apl. 16	8.0	13	40	0.76	...	138	32	1.0	R	
15	8.0	33	27.39	...		40	45.1	R	23	8.0	40	0.54	...		31	59.1	R		
May 22	8.4	33	27.45	...		40	46.0	R	27	8.2	40	0.80	...		31	59.8	R		
25	...	33	27.49	...		40	45.9	R											
240 <i>Anon.</i>																			
Apl. 14	8.0	13	35	13.71	...	186	21	11.3	R										
21	7.9	35	13.92	...		21	12.9	M											
23	7.1	35	13.90	...		21	11.1	R											
24	7.8	35	13.67	...		21	12.6	R											
27	7.1	35	13.84	...		21	13.2	R											

16.43
45

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
251 Anon.—2nd.										258 W. B. E. XIII. 1023.									
Apl. 9	10.0	13	46	6.68	...	128	26	11.9	R	Mar. 31	8.2	13	59	6.60	...	102	5	54.4	R
13	10.0		46	6.75	...		26	11.2	R	Apl. 8	8.4		59	6.58	...		5	55.6	R
252 x Virginis, Var. 5.																			
Apl. 8	9.0	13	47	44.83	...	78	18	54.6	R	13	8.1		59	6.27	...		5	54.6	R
253 Taylor 6473.																			
Mar. 31	...	13	48	21.85	...	97	26	16.2	R	15	8.3		59	6.86	...		5	54.9	R
254 8 Bootis η																			
Apl. 17	...	13	48	41.15	...	70	58	11.5	R	16	8.2		59	6.44	...		5	55.5	R
24	...		48	41.09	...		58	9.2	R	20	8.3		59	6.80	...		5	55.8	M
May 21	...		48	41.10	...		58	10.9	R	21	8.6		59	6.41	...		5	57.2	M
22	...		48	41.12	...		58	9.8	R										
26	...		48	41.12	...		58	10.9	R										
28	...		48	41.14	...		58	11.8	R										
30	...		48	41.14	...		58	10.4	R										
June 6	...		48	41.14	...		58	10.9	M										
9	...		48	41.18	...		58	11.8	M										
11	...		48	41.09	...		58	9.4	M										
12	...		48	41.14	...		58	10.7	M										
17	...		48	41.10	...		58	9.9	M										
19	...		48	41.69	...		58	10.0	M										
20	...		48	41.24	...		58	12.3	M										
255 Anon.										259 W. B. E. XIII. 1070.									
Apl. 4	10.2	13	52	1.33	...	108	33	34.7	R	Apl. 4	8.5	14	1	38.72	..	101	57	55.8	R
256 Anon.																			
Apl. 9	9.7	13	53	1.60	...	128	4	22.2	R	17	8.1		1	38.55	...		57	55.1	R
11	9.5		53	1.52	...		4	23.9	R	24	8.8		1	38.61	...		57	55.4	R
14	9.7		53	1.64	...		4	21.4	R	27	8.5		1	38.76	...		57	56.6	R
257 β Centauri.																			
May 19	...	13	54	57.02	...	149	45	49.1	R	May 20	8.4		1	38.74	...		57	54.9	R
23	...		54	56.76	...		45	49.7	R	21	8.4		1	38.59	...		57	55.3	R
June 29	...		54	56.82	...		45	51.5	M	22	8.4		1	38.77	...		57	54.6	R
261 Anon.										260 R. P. L. 108.									
Apl. 23	9.1	14	3	3.90	...	101	48	17.3	R	June 4	...	14	2	37.90	3	3	38	19.3	M
May 30	9.5		3	3.84	...		48	18.0	R	5	...		2	38.08	3		38	19.4	M
June 6	9.6		3	4.06	...		48	18.8	M	8	...		2	38.36	3		38	19.8	M
18	9.4		3	4.01	...		48	17.7	M	9	...		2	40.56	3		38	19.0	M
262 Bootis, Var. 4.										R. P. L. 108—s.p.									
Apl. 13	9.2	14	4	51.07	...	79	85	22.1	R	Oct. 28	...	14	2	37.27	5	3	38	22.2	M
14	9.3		4	51.11	...		85	22.3	R	Nov. 12	...		2	39.11	3		38	20.1	R
16	9.1		4	51.14	...		85	21.5	R										

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Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
263 <i>Anon.</i>										May 28	8.3	14	16	54.16	...	102	24	23.2	R
Mar. 31	9.0	14	6	45.97	...	102	20	58.6	R	29	8.3		16	54.13	..	24	21.5	R	
Apl. 8	9.1		6	46.15	...		20	59.6	R	270 <i>Lacaille 5926.</i>									
15	9.1		6	45.95	...		20	57.8	R	Apl. 17	9.1	14	17	15.01	...	119	2	45.0	R
27	8.2		6	46.08	...		21	0.2	R	271 <i>Taylor 6721.</i>									
May 19	9.2		6	46.02	...		20	53.9	R	Apl. 23	7.2	14	17	54.46	...	101	5	46.2	R
21	9.4		6	45.89	...		21	0.0	R	272 <i>Anon.</i>									
22	9.4		6	45.90	...		20	59.0	R	May 22	10.3	14	18	0.86	...	123	16	9.9	R
23	...		6	45.86	...		20	59.5	R	June 18	10.0		18	0.72	...		16	10.6	M
264 <i>16 Bootis a, Arcturus.</i>										273 <i>W. B. E. XIV. 315.</i>									
May 26	...	14	9	54.83	...	70	9	39.1	R	Apl. 11	6.5	14	18	28.27	...	102	46	55.7	R
June 8	...		9	54.93	...		9	40.1	M	May 20	7.1		18	28.27	...		46	54.1	R
9	...		9	54.81	...		9	39.7	M	21	7.0		18	28.24	...		46	53.6	R
11	...		9	54.97	...		9	38.0	M	30	7.1		18	28.35	...		46	52.9	R
19	...		9	54.94	...		9	37.7	M	June 4	6.9		18	28.45	...		46	56.2	M
265 <i>Anon.</i>										5	6.9		18	28.42	...		46	55.3	M
Apl. 16	8.0	14	10	28.55	...	128	18	0.6	R	8	6.5		18	28.18	...		46	54.2	M
17	8.1		10	28.50	...		17	58.7	R	9	6.5		18	28.46	...		46	56.2	M
23	8.3		10	28.48	...		17	58.9	R	274 <i>W. B. E. XIV. 360.</i>									
24	8.8		10	28.28	...		17	58.9	R	Mar. 31	8.0	14	20	55.71	...	102	47	29.3	R
266 <i>Anon.</i>										Apl. 4	7.8		20	55.59	...		47	28.5	R
Apl. 9	9.4	14	13	9.36	...	136	52	40.2	R	8	7.8		20	55.48	...		47	30.5	R
11	9.4		13	9.29	...		52	41.6	R	15	8.0		20	55.36	...		47	28.7	R
267 <i>W. B. E. XIV. 240.</i>										24	8.0		20	55.50	...		47	28.4	R
Mar. 31	9.0	14	15	2.32	...	102	36	17.8	R	27	7.8		20	55.42	...		47	27.6	R
Apl. 4	9.0		15	2.18	...		36	17.7	R	May 19	8.0		20	55.62	...		47	29.8	R
8	9.0		15	2.39	...		36	20.3	R	June 12	7.7		20	55.68	...		47	29.5	M
14	9.2		15	2.24	...		36	17.1	R	17	...		20	55.46	...		47	28.1	M
15	9.1		15	2.22	...		36	16.6	R	275 <i>W. B. E. XIV. 392.</i>									
268 <i>Anon.</i>										Apl. 16	9.1	14	22	44.52	...	103	15	36.4	R
Apl. 13	9.0	14	15	54.90	...	122	14	21.7	R	May 20	9.4		22	44.52	...		15	35.1	R
269 <i>W. B. E. XIV. 280.</i>										21	9.4		22	44.43	...		15	35.8	R
Apl. 27	7.8	14	16	54.04	...	102	24	22.8	R	22	9.4		22	44.38	...		15	35.4	R
May 19	8.1		16	54.19	...		24	22.6	R	23	...		22	44.37	...		15	36.5	R
23	...		16	53.98	...		24	22.6	R	28	8.3		22	44.40	...		15	36.2	R

54.88
75
96

0.88

26.46

55.63
.56

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
276 <i>W. B. E. XIV. 410.</i>																			
Apl. 9	9.0	14	23	55.48	...	108	2	38.1	R	Apl. 23	...	14	39	29.00	...	62	28	37.8	R
13	9.0	23	55.30	...		2	36.0	R	27	...	39	28.98	...		28	36.6	R		
14	9.3	23	55.25	...		2	36.7	R	May 19	...	39	29.13	...		23	36.8	R		
277 <i>25 Bootis ρ</i>																			
June 4	...	14	26	23.94	...	59	4	29.3	M	22	...	39	29.02	...		28	38.5	R	
24	...	26	23.99	...		4	29.4	M	26	...	39	29.16	...		28	36.7	R		
278 <i>W. B. E. XIV. 458.</i>																			
Mar. 31	9.0	14	26	42.14	...	103	31	11.1	R	June 4	...	39	29.11	...		28	37.8	M	
Apl. 4	9.5	26	41.95	...		31	10.0	R	5	...	39	29.00	...		28	38.3	M		
8	9.6	26	42.04	...		31	10.9	R	18	...	39	29.11	...		23	37.9	M		
11	9.5	26	41.92	...		31	13.7	R	24	...	39	29.08	...		28	36.9	M		
15	10.0	26	41.94	...		31	10.3	R	29	...	39	29.03	...		23	36.7	M		
279 <i>O. A. N. 14652.</i>																			
June 8	8.6	14	27	9.79	...	20	9	42.2	M	July 1	...	39	29.06	...		28	35.7	R	
280 <i>Anon.</i>																			
May 23	9.8	14	27	19.80	...	123	22	43.0	R	3	...	39	29.10	...		28	36.9	R	
30	9.8	27	19.74	...		22	41.4	R	9	...	39	29.10	...		28	35.9	R		
June 6	9.3	27	19.76	...		22	42.8	M											
281 <i>W. B. E. XIV. 512.</i>																			
Apl. 16	9.0	14	29	26.75	...	103	28	34.1	R										
17	9.0	29	26.75	...		28	36.7	R											
282 <i>R Bootis, Var. 1</i>																			
Apl. 8	8.0	14	31	38.34	...	62	43	56.6	R										
9	...	31	38.28	...		42	55.8	R											
283 <i>Anon.</i>																			
Mar. 31	10.0	14	35	17.79	...	61	58	39.7	R										
284 <i>Anon.</i>																			
Apl. 4	9.3	14	37	16.25	...	150	19	56.2	R										
11	9.3	37	16.07	...		19	58.7	R											
15	9.6	37	16.02	...		19	56.9	R											
285 <i>36 Bootis ε², Mirac.</i>																			
Apl. 23	...	14	39	29.00	...	62	28	37.8	R										
27	...	39	28.98	...		28	36.6	R											
May 19	...	39	29.13	...		23	36.8	R											
22	...	39	29.02	...		28	38.5	R											
26	...	39	29.16	...		28	36.7	R											
June 4	...	39	29.11	...		28	37.8	M											
5	...	39	29.00	...		28	38.3	M											
18	...	39	29.11	...		23	37.9	M											
24	...	39	29.08	...		28	36.9	M											
29	...	39	29.03	...		23	36.7	M											
July 1	...	39	29.06	...		28	35.7	R											
3	...	39	29.10	...		28	36.9	R											
9	...	39	29.10	...		28	35.9	R											
286 <i>Anon.</i>																			
Mar. 31	9.0	14	43	2.61	...	129	9	22.2	R										
287 <i>8 Libræ α¹</i>																			
Apl. 4	6.0	14	43	43.01	...	105	28	17.8	R										
8	6.0	43	43.01	...		28	18.3	R											
288 <i>9 Libræ α²</i>																			
June 8	...	14	43	54.59	...	105	31	2.8	M										
29	...	43	54.55	...		31	1.7	M											
July 2	...	43	54.58	...		31	1.2	R											
289 <i>Anon.</i>																			
Apl. 9	8.1	14	46	1.82	...	101	51	52.5	R										
11	8.0	46	1.80	...		51	52.2	R											
290 <i>13 Libræ ζ¹</i>																			
Apl. 16	6.1	14	47	32.49	...	101	22	55.6	R										
17	6.2	47	32.51	...		22	57.2	R											
23	6.3	47	32.30	...		22	53.3	R											
291 <i>Anon.</i>																			
May 21	9.8	14	43	16.68	...	150	43	27.2	R										
22	9.8	43	16.72	...		43	26.5	R											

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Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
292 <i>Anon.</i>										301 <i>47 Bootis κ</i>									
May 19	9.1	14	51	1.72	...	130	34	40.7	R	Apl. 11	6.0	15	1	15.39	...	41	21	40.7	R
80	9.2	51	1.71	...	34	39.0	R		17	...	1	15.37	...	21	40.4	R			
293 <i>Anon.</i>										302 <i>Anon.</i>									
Apl. 9	9.0	14	51	42.77	...	39	22	4.8	R	Apl. 23	8.9	15	1	30.30	...	97	24	40.9	R
11	9.0	51	42.58	...	22	4.7	R		24	9.0	1	30.31	...	24	42.6	R			
27	9.2	51	42.79	...	22	4.0	R		27	8.8	1	30.34	...	24	43.7	R			
294 <i>Anon.</i>										303 <i>Anon—2nd.</i>									
Mar. 31	9.0	14	52	12.40	...	123	15	12.4	R	Apl. 9	8.6	15	4	10.80	...	122	21	1.2	R
Apl. 8	9.0	52	12.15	...	15	10.8	R		May 28	8.9	4	10.96	...	21	5.0	R			
295 <i>Taylor 6991.</i>										304 <i>O. A. N. 15138.</i>									
May 23	...	14	52	12.33	...	39	51	20.3	R	May 29	...	15	4	27.72	...	43	2	22.9	R
28	5.5	52	12.22	...	51	20.0	R		July 3	9.0	4	27.97	...	2	22.7	R			
296 <i>O. A. N. 14999.</i>										305 <i>R. P. L. 111—s.p.</i>									
Apl. 24	9.0	14	53	52.42	5	41	27	50.5	R	Jan. 14	...	15	4	^{33.25} 34.75	3	5	33	47.9	M
May 22	9.3	53	52.61	...	27	52.0	R		15	...	4	34.32	3	33	42.8	M			
June 5	8.7	53	52.80	...	27	50.7	M		16	...	4	34.35	3	33	46.6	M			
297 <i>O. A. N. 15004.</i>										306 <i>W. B. E. XV. 86.</i>									
Apl. 17	7.9	14	54	12.44	...	39	23	27.8	R	Apl. 8	9.2	15	7	3.72	...	98	4	9.5	R
298 <i>19 Librae δ, Var. 4.</i>										307 <i>Anon.</i>									
May 29	...	14	54	14.70	...	98	1	3.9	R	Apl. 27	8.8	15	7	18.60	...	98	17	39.5	R
June 6	5.8	54	14.57	...	1	4.4	M		May 23	...	7	18.41	...	17	39.1	R			
8	5.9	54	14.53	...	1	3.3	M		30	8.8	7	18.55	...	17	36.5	R			
17	5.2	54	14.48	...	1	4.2	M		July 7	...	7	18.46	...	17	35.5	R			
18	5.3	54	14.72	...	1	3.8	M		9	8.2	7	18.46	...	17	36.4	R			
299 <i>Anon.</i>										308 <i>Anon.</i>									
Apl. 8	...	14	58	21.26	...	131	33	6.3	R	June 18	8.8	15	7	²² 21	6	130	28	47.4	M
300 <i>43 Bootis ψ</i>										309 <i>Anon.</i>									
July 2	...	14	59	2.89	...	62	33	36.9	R	July 15	9.0	7	22.02	...	28	44.7	R		
7	...	59	2.81	...	33	34.8	R												
9	...	59	2.86	...	33	34.0	R												

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22.25

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
309 <i>27 Libræ β</i>																			
Apl. 17	...	15	10	13.70	...	98	54	59.5	R	July 3	9.0	15	17	43.38	...	130	5	50.0	R
23	...	10	13.70	...		54	57.5	R	20	9.1	17	43.42	...		5	47.8	R		
June 4	...	10	13.68	...		55	0.6	M	21	9.2	17	43.45	...		5	47.5	R		
8	...	10	13.64	...		55	0.8	M											
24	...	10	13.68	...		54	59.0	M											
July 1	...	10	13.63	...		54	58.6	R											
4	...	10	13.75	...		54	59.6	R											
14	...	10	13.64	...		54	58.8	R											
16	...	10	13.70	...		54	59.6	R											
310 <i>Redhill 2293—s.p.</i>																			
Jan. 17	...	15	13	24.17	3	4	23	18.2	M										
19	...	13	23.95	3		23	18.3	M											
27	...	13	24.30	3		23	20.0	M											
29	...	13	24.04	3		23	19.9	M											
311 <i>Anon.</i>																			
Apl. 9	9.0	15	14	49.56	...	123	9	44.2	R										
312 <i>Lacaille 6354.</i>																			
Apl. 11	9.0	15	15	38.41	...	124	17	24.2	R										
27	8.9	15	38.26	...		17	23.6	R											
May 19	9.1	15	38.55	...		17	22.1	R											
313 <i>S Coronæ Borealis, Var. 2.</i>																			
May 28	7.2	15	16	15.95	...	58	10	43.7	R										
29	...	16	16.07	...		10	43.8	R											
30	7.2	16	16.17	...		10	43.1	R											
June 5	7.3	16	15.98	...		10	42.3	M											
9	7.4	16	15.94	...		10	43.0	M											
18	6.2	16	15.98	...		10	41.9	M											
29	6.4	16	15.72	...		10	43.3	M											
314 <i>W. B. E. XV. 290.</i>																			
May 20	8.5	15	17	33.87	...	103	27	24.7	R										
23	...	17	34.03	...		27	26.8	R											
July 1	8.3	17	33.33	...		27	24.1	R											
2	8.2	17	33.87	...		27	24.6	R											
315 <i>Anon.</i>																			
July 3	9.0	15	17	43.38	...	130	5	50.0	R										
20	9.1	17	43.42	...		5	47.8	R											
21	9.2	17	43.45	...		5	47.5	R											
316 <i>R. P. L. 114—s.p.</i>																			
Jan. 31	...	15	18	37.54	3	2	17	12.8	M										
317 <i>W. B. E. XV. 319.</i>																			
Apl. 17	9.0	15	18	44.26	...	102	25	26.1	R										
23	9.1	18	44.38	...		25	25.5	R											
318 <i>Anon.</i>																			
Apl. 27	9.0	15	22	19.46	...	129	28	7.7	R										
May 23	9.2	22	19.54	...		28	6.3	R											
319 <i>Anon.</i>																			
Apl. 11	8.6	15	23	2.41	...	125	12	16.4	R										
320 <i>Anon.</i>																			
Apl. 23	9.6	15	25	12.68	...	180	11	0.1	R										
May 19	9.6	25	12.98	...		11	2.1	R											
20	9.7	25	12.90	...		11	2.0	R											
321 <i>Lacaille 6421.</i>																			
Apl. 17	8.0	15	26	16.54	...	122	44	37.8	R										
322 <i>Lalande 28320.</i>																			
Apl. 27	8.2	15	27	2.76	...	103	48	11.3	R										
May 21	8.8	27	2.85	...		48	9.9	R											
28	8.2	27	2.66	...		48	11.8	R											
29	...	27	2.56	...		48	10.8	R											
323 <i>5 Coronæ Borealis a</i>																			
May 30	...	15	29	21.31	...	62	51	35.6	R										
July 2	...	29	21.20	...		51	35.6	R											
4	...	29	21.18	...		51	35.4	R											
7	...	29	21.21	...		51	34.6	R											
14	...	29	21.16	...		51	36.3	R											
20	...	29	21.18	...		51	33.3	R											
21	...	29	21.16	...		51	33.7	R											

1344

15.87
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Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
324 <i>Anon.</i>										332 <i>Anon.</i>										
July 3	10.0	15	29	49.40	...	119	42	28.5	R	June 18	8.0	15	38	20.32 ⁹	...	125	29	3.1	M	39 31
15	10.0	29	49.02	...		42	26.2	R	19	8.0	38	20.22 ³¹	...		29	3.4	M			
16	10.0	29	49.52	...		42	25.3	R	July 16	8.2	38	20.41	...		29	2.1	R			
325 <i>Anon.</i>										333 <i>O. A. S. 14841.</i>										
Apl. 11	9.5	15	30	49.34	...	129	35	29.5	R	July 2	9.0	15	38	24.30	...	114	9	39.6	R	20.14
326 <i>W. B. E. XV. 557.</i>										4	9.1	38	24.38	...		9	42.5	R		
May 23	...	15	30	58.50	...	104	6	47.9	R	15	9.0	38	24.22	...		9	39.9	R		
June 5	7.4	30	58.31	...		6	48.2	M	334 <i>O. A. S. 14874.</i>											
6	7.6	30	58.38	...		6	48.6	M	May 20	9.2	15	40	1.65	...	104	50	32.4	R		
327 <i>W. B. E. XV. 564.</i>										335 <i>Lacaille 6524.</i>										
Apl. 23	7.0	15	31	27.51	...	104	5	55.5	R	June 24	5.9	15	41	20.12 ⁴	...	144	40	8.4	M	
May 19	7.0	31	27.71	...		5	55.6	R	336 <i>Anon.</i>											
20	7.4	31	27.56	...		5	56.8	R	May 21	9.8	15	42	43.41	...	104	26	15.0	R	22.99 23.00	
328 <i>43 Libræ κ.</i>										July 9	9.6	42	43.18	...		26	16.1	R		
May 21	5.3	15	34	41.28	...	109	16	7.1	R	337 <i>R Coronæ Borealis, Var. 1.</i>										
28	5.2	34	41.40	...		16	6.2	R	May 28	6.8	15	43	22.92	...	61	27	20.0	R		
29	...	34	41.13	...		16	5.8	R	June 6	6.4	43	22.82	...		27	19.9	M	22.99 23.00		
329 <i>Anon.</i>										9	6.6	43	22.94	...		27	20.0		M	
May 30	8.7	15	35	30.38	...	129	3	24.5	R	17	6.1	43	22.87	...		27	21.1		M	
July 9	8.5	35	30.24	...		3	22.8	R	July 4	6.1	43	22.77	...		27	21.1	R			
330 <i>24 Serpentis a.</i>										338 <i>Anon.</i>										
Apl. 11	...	15	38	3.76	...	83	10	35.2	R	Apl. 11	9.5	15	44	31.56	...	104	23	23.8	R	
July 3	...	38	3.74	...		10	32.6	R	339 <i>36 Serpentis b.</i>											
7	...	38	3.79	...		10	33.5	R	May 23	...	15	44	42.35	...	92	42	27.0	R		
14	...	38	3.77	...		10	33.3	R	340 <i>W. B. E. XV. 861.</i>											
17	...	38	3.72	...		10	32.8	R	July 15	9.4	15	46	5.06	...	101	27	16.5	R		
331 <i>O. A. S. 14840.</i>										16	9.5	46	5.07	5	27	18.4	R			
May 22	8.5	15	38	19.80	...	114	19	6.0	R											
28	...	38	20.08	...		19	4.4	R												
June 4	8.4	38	20.14	...		19	4.7	M												

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
341 Radcliffe 3462.										351 49 Libræ.									
July 3	8.3	15	46	41.05	...	47	3	20.7	R	July 3	5.8	15	53	15.71	...	106	9	36.0	R
342 R. P. L. 115—s.p.										352 Taylor 7439.									
Jan. 1	...	15	46	55.54	3	4	45	45.3	M	May 21	8.8	15	55	6.12	...	126	46	50.6	R
7	...		46	54.99	2		45	48.2	M	353 O. A. S. 15146.									
Dec. 5	...		46	56.34	3		45	45.6	M	July 14	9.0	15	55	21.42	...	107	30	32.8	R
15	...		46	55.99	3		45	48.9	M	15	9.0		55	21.48	...	80	31.6	R	
17	...		46	55.23	3		45	47.7	M	354 W. B. E. XV. 1047.									
18	...		46	55.85	3		45	45.7	M	July 2	8.1	15	56	27.34	...	91	17	40.1	R
343 O. A. S. 14996.										355 51 Scorpii ξ.									
May 20	9.4	15	47	3.85	...	105	17	17.2	R	May 23	...	15	57	26.40	...	101	1	26.7	R
July 22	9.5		47	3.78	...		17	20.8	R	356 8 Scorpii β ¹									
344 Lalande 28970.										Apl. 11	...	15	58	6.78	...	109	27	30.0	R
May 21	8.4	15	48	24.91	...	70	50	55.6	R	May 20	...		58	6.85	...		27	29.2	R
345 O. A. S. 15053.										28	...		58	6.59	...		27	30.9	R
June 5	8.3	15	49	36.13	...	105	27	43.3	M	June 18	...		58	6.71	6		27	32.2	M
346 W. B. E. XV. 923.										July 1	...		58	6.86	...		27	29.9	R
July 2	9.2	15	40	51.75	...	104	57	40.2	R	3	...		58	6.70	...		27	29.9	R
347 Anon.										9	...		58	6.67	...		27	29.1	R
June 18	8.9	15	40	58.29 ²	6	104	0	47.8	M	17	...		58	6.78	...		27	28.7	R
July 9	9.1		40	57.99	...		0	45.5	R	21	...		58	6.83	...		27	27.9	R
348 Lalande 29054.										29	..		58	6.77	...		27	30.0	R
May 23	...	15	51	3.98	...	104	5	26.7	R	357 9 Scorpii ω ¹									
349 4 Herculis.										May 22	5.0	15	59	26.50	...	110	19	33.7	R
May 28	...	15	51	16.34	5	47	4	0.3	R	June 4	4.6		59	26.27	...		19	34.8	M
July 1	...		51	15.98	...		3	57.7	R	July 7	4.6		59	26.30	...		19	34.2	R
350 7 Scorpii δ.										358 O. A. S. 15237.									
May 22	...	15	52	53.20	...	112	15	40.3	R	May 21	8.5	15	59	53.32	...	106	36	3.8	R
351 49 Libræ.										29	...		59	53.25	...		36	3.1	R
June 6	8.7	16	0	0.52	...	107	35	40.8	M	359 Lalande 29306.									

5832

675

Separate Results of Madras Meridian Circle Observations in 1874.

36.71

37.55

4.49

44.52

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
360 11 <i>Scorpii</i> .										July 20	...	16	7	44.59	...	98	22	4.5	R
										22	...	7	44.61	...	22	4.1	R		
										29	...	7	44.59	...	22	4.0	R		
										31	...	7	44.61	...	22	4.8	R		
										Aug. 11	...	7	44.61	...	22	7.7	M		
										368 <i>Anon.</i>									
										July 3	10.1	16	10	19.02	...	112	35	1.7	R
										369 <i>Anon.</i>									
										May 21	10.5	16	12	59.14	...	107	38	15.6	R
										23	...	12	59.01	...	38	15.2	R		
										370 <i>Anon.</i>									
										May 20	8.0	16	15	1.23	...	146	12	35.1	R
										371 <i>Anon.</i>									
										July 7	9.5	16	16	26.43	...	128	9	6.6	R
										9	9.5	16	26.44	...	9	7.1	R		
										14	9.5	16	26.64	...	9	7.1	R		
										372 <i>Anon.</i>									
										Aug. 14	9.2	16	16	37.05	...	152	18	33.2	M
										373 <i>Anon.</i>									
										July 4	10.0	16	17	10.50	...	107	27	3.3	R
										374 <i>O. A. S. 15606.</i>									
										July 2	9.0	16	17	26.26	...	107	15	56.6	R
										3	9.1	17	26.34	...	15	56.9	R		
										375 <i>O. A. S. 15613.</i>									
										June 4	7.9	16	17	50.98	...	113	10	3.4	M
										6	7.6	17	51.10	...	10	2.0	M		
										376 5 <i>Ophiuchi</i> ρ									
										June 9	7.2	16	18	1.76 ⁸⁵	...	118	9	17.6	M
										17	7.0	18	1.82 ⁸⁴	...	9	18.4	M		
										19	7.0	18	1.86 ⁸⁶	...	9	16.1	M		
										July 1	7.1	18	1.95	...	9	18.6	R		
										361 <i>R. P. L. 116—s.p.</i>									
										Jan. 5	...	16	2	37.79	3	4	20	26.8	M
										12	...	2	38.45	3	20	28.9	M		
										Feb. 2	...	2	38.71	3	20	24.8	R		
										362 <i>Lalande 29414.</i>									
										July 4	8.0	16	2	52.56	...	102	33	7.8	R
										Aug. 13	8.0	2	52.41	6	33	6.9	M		
										14	8.0	2	52.44	6	33	7.5	M		
										363 <i>W. B. E. XVI. 83.</i>									
										May 21	8.3	16	6	36.55	...	102	42	39.0	R
										23	...	6	36.50	...	42	39.0	R		
										364 <i>O. A. S. 15412.</i>									
										July 2	9.1	16	6	52.68	...	106	4	42.6	R
										9	9.0	6	52.47	...	4	40.6	R		
										365 <i>O. A. S. 15416.</i>									
										June 9	7.7	16	7	4.41 ⁹	...	110	47	7.6	M
										July 1	8.0	7	4.41	...	47	4.8	R		
										7	8.0	7	4.47	...	47	5.3	R		
										366 <i>O. A. S. 15418.</i>									
										July 14	9.0	16	7	5.04	...	106	13	5.2	R
										Aug. 7	8.9	7	5.07	4	13	7.8	M		
										367 1 <i>Ophiuchi</i> δ									
										May 29	...	16	7	44.68	...	98	22	5.5	R
										June 18	...	7	44.54	...	22	6.9	M		
										July 15	...	7	44.57	...	22	4.7	R		
										17	...	7	44.58	...	22	4.9	R		

1.85
 .94
 .86
 —.85
 1.90

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
377 <i>Taylor 7621.</i>										385 <i>13 Ophiuchi ζ</i>										
July 15	9.0	16	18	2.20	...	113	6	44.9	R	May 23	...	16	30	13.24	...	100	18	37.4	R	
22	9.4	18	1.89	...		6	43.9	R	29	...	30	13.14	...		18	35.4	R			
Aug. 3	8.6	18	2.18	...		6	46.3	M												
378 <i>Anon.</i>										386 <i>Brisbane 5784.</i>										
Aug. 8	9.1	16	18	40.19	...	129	32	3.8	M	May 20	9.8	16	31	47.58	...	150	40	41.3	R	
11	9.0	18	40.10	...		32	2.7	M												
12	9.0	18	40.11	...		32	0.9	M												
379 <i>7 Ophiuchi χ</i>										387 <i>Taylor 7724.</i>										
May 19	...	16	19	43.57		108	10	5.5	R	May 21	7.4	16	34	29.65	...	109	40	50.6	R	
23	...	19	43.61			10	6.4	R	28	7.2	34	29.55	...		40	49.9	R			
June 5	...	19	43.14			10	6.1	M												
380 <i>21 Scorpii α, Antares.</i>										388 <i>Anon.</i>										
July 4	...	16	21	41.05	...	116	8	59.5	R	May 30	8.2	16	35	19.62	...	134	8	14.6	R	
15	...	21	40.98	...		8	59.0	R												
20	...	21	41.07	...		8	59.4	R												
21	...	21	41.06	...		8	59.8	R												
29	...	21	40.99	...		8	59.6	R												
Aug. 7	...	21	41.07	...		9	1.5	M												
381 <i>Lalande 30042</i>										389 <i>α Trianguli Australis.</i>										
May 21	8.8	16	23	4.23	...	48	23	11.5	R	Aug. 8	...	16	35	20.63	...	158	47	37.8	M	
										14	...	35	20.51	...		47	36.0	M		
										28	...	35	20.71	5		47	35.5	M		
382 <i>8 Ophiuchi φ</i>										390 <i>40 Hercules ζ</i>										
May 29	...	16	23	55.79	...	106	20	8.4	R	July 22	...	16	36	32.15	...	58	10	2.2	R	
July 9	...	23	55.47	...		20	6.3	R	31	...	36	32.20	...		10	4.2	R			
										Aug. 7	...	36	32.15	...		10	4.8	M		
383 <i>30 Hercules g.</i>										391 <i>Anon.</i>										
Aug. 13	5.9	16	24	29.74	5	47	50	26.3	M	July 2	9.0	16	37	25.45	...	130	59	8.4	R	
										392 <i>O. A. S. 15952.</i>										
										May 21	9.3	16	39	58.00	...	111	56	40.7	R	
										23	...	39	58.09	...		56	41.6	R		
384 <i>Anon.</i>										393 <i>Lacaille 6984.</i>										
May. 20	9.4	16	27	5.38	...	130	56	9.9	R	Aug. 11	8.1	16	40	21.27	5	120	58	34.8	M	
30	9.5	27	5.47	...		56	9.4	R	12	8.0	40	21.29	...		58	32.1	M			
										13	8.0	40	21.31	...		58	31.8	M		
										394 <i>Anon.</i>										
										May 20	8.4	16	45	6.15	...	131	2	32.6	R	

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
395 <i>Anon.</i>										403 <i>Anon.</i>									
July 21	10.0	16	45	20.98	...	75	17	46.0	R	May 20	8.8	16	52	18.46	...	122	54	40.9	R
22	10.3	45	20.98	...	17	45.1	R			June 4	8.6	52	18.75	...	54	41.7	M		
										5	8.5	52	18.55	...	54	41.3	M		
396 <i>Taylor 7815.</i>										404 <i>O. A. S. 16232.</i>									
June 3	8.8	16	46	10.98	...	130	18	54.5	M	July 21	10.0	16	54	32.86	...	100	15	39.0	R
July 20	8.5	46	11.28	...	18	58.5	R			405 <i>22 Ursæ Minoris ε</i>									
397 <i>49 Herculis.</i>										July 20	...	16	58	56.91	7	7	45	33.8	R
Aug. 24	7.6	16	46	20.75	6	74	48	43.1	M	Aug. 28	...	58	57.42	5	45	30.7	M		
28	7.3	46	20.57	...	48	45.2	M			22 Ursæ Minoris ε—s.p.									
398 <i>Anon.</i>										Dec. 28	...	16	58	57.02	5	7	45	31.1	R
May 30	9.0	16	46	56.80	...	136	38	34.4	R	406 <i>Anon.</i>									
399 <i>Anon.</i>										May 21	8.2	17	4	43.31	...	59	8	0.9	R
Aug. 14	8.6	16	47	32.69	...	130	17	27.1	M	23	...	4	43.39	...	8	1.2	R		
400 <i>Stone 9208.</i>										407 <i>Lacaille 7168.</i>									
June 18	8.1	16	48	12.36	...	121	6	5.9	M	May 30	8.0	17	5	16.83	...	128	8	28.6	R
Aug. 3	8.0	48	12.56	3	6	7.3	M			408 <i>O. A. S. 16432.</i>									
401 <i>Anon.</i>										June 18	8.0	17	6	24.11 ⁴	...	105	24	27.9	M
May 21	8.2	16	49	33.54	...	125	32	18.4	R	July 1	8.1	6	23.97	...	24	28.8	R		
23	...	49	33.41	...	32	19.5	R			409 <i>Anon.</i>									
402 <i>27 Ophiuchi κ</i>										Aug. 25	9.0	17	6	48.83	...	130	54	49.3	M
July 1	...	16	51	42.15	...	80	25	38.5	R	28	9.0	6	48.69	...	54	47.1	M		
15	...	51	42.29	...	25	35.7	R			410 <i>64 Herculis α, Var 1.</i>									
16	...	51	42.17	...	25	37.7	R			July 16	...	17	8	54.15	...	75	27	52.8	R
22	...	51	42.26	...	25	35.4	R			30	...	8	54.10	...	27	49.8	R		
30	...	51	42.27	...	25	36.4	R			31	...	8	54.15	...	27	50.6	R		
Aug. 12	...	51	42.18	...	25	38.9	M			Aug. 6	...	8	54.31	...	27	49.8	M		
13	...	51	42.24	...	25	38.0	M			7	...	8	54.21	...	27	51.7	M		
18	...	51	42.25	...	25	39.0	M			18	...	8	54.13	...	27	51.2	M		
										19	...	8	54.17	...	27	53.4	M		
										21	...	8	54.18	...	27	50.2	M		

12.47

14

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.								
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"									
411		<i>Anon.</i>																									
July 2	8.1	17	9	40.79	...	124	4	59.3	R	July 2	8.0	17	29	5.56	8.0	125	15	6.0	R								
412		<i>Anon.</i>																									
May 30	10.2	17	12	40.25	...	130	28	19.4	R	July 20	9.0	17	30	5.26	...	130	56	48.8	R								
										22	9.4			30	5.22	5		56	49.4	R							
413		<i>42 Ophiuchi θ</i>																									
July 14	...	17	14	16.41	...	114	52	16.0	R	422		<i>Taylor 8141.</i>															
30	...			14	16.35	...		52	15.8	R	July 1	6.4	17	81	10.59	...	111	50	8.4	R							
Aug. 3	...			14	16.46	...		52	18.0	M	423		<i>56 Serpentis σ</i>														
6	...			14	16.26	...		52	17.0	R	July 16	8.5	17	34	20.30	...	101	48	18.7	R							
414		<i>Anon.</i>																									
July 20	8.5	17	21	55.46	..	130	46	11.6	R	20	6.3			34	20.19	...		48	18.4	R							
22	9.0			21	55.38	6		46	11.1	R	424		<i>Anon.</i>														
Aug. 8	9.1			21	55.32	...		46	14.1	M	Aug. 13	9.2	17	34	53.96	4	128	57	52.7	M							
12	9.1			21	55.18	5		46	12.8	M	425		<i>Anon.</i>														
415		<i>Brisbane 6091.</i>																									
May 30	8.5	17	22	11.66	...	148	27	34.4	R	May 30	8.5	17	40	36.35	...	126	28	35.6	R								
416		<i>Lacaille 7135.</i>																									
Aug. 14	7.6	17	22	50.52	...	130	56	21.5	M	426		<i>86 Hercules μ</i>															
24	7.4			22	50.57	...		56	22.2	M	Aug. 6	...	17	41	31.58	...	62	12	16.2	R							
25	7.5			22	50.78	...		56	22.8	M	18	...			41	31.67	...		12	16.8	M						
28	7.7			22	50.57	...		56	21.8	M	19	...			41	31.67	...		12	15.8	M						
										28	...			41	31.74	...		12	18.8	M							
417		<i>23 Draconis β</i>																									
Aug. 11	...	17	27	85.20	...	37	36	17.8	M	427		<i>Anon.</i>															
22	...			24	85.08	...		36	16.9	M	July 21	8.8	17	41	42.99	...	118	27	36.7	R							
418		<i>Taylor 8129.</i>																									
May 30	8.2	17	28	11.36	...	77	28	50.6	R	22	8.6			42	42.97	...		27	38.0	R							
419		<i>55 Ophiuchi α</i>																									
Aug. 3	...	17	29	5.02	...	77	20	48.0	M	Aug. 15	9.0			42	42.82	...		27	39.1	M							
21	...			29	5.14	...		20	46.7	M	428		<i>Radcliffe 3765.</i>														
										July 1	8.4	17	48	88.49	...	17	32	9.4	R								
										429		<i>31 Draconis ψ^2</i>															
July 30	...	17	44	12.25	4	17	46	52.8	R	July 30	...	17	44	12.25	4	17	46	52.8	R								
Aug. 11	6.0			44	12.92	5		46	54.2	M	Aug. 11	6.0			44	12.92	5		46	54.2	M						
										24	6.4			44	13.15	...		46	52.8	M							
										25	6.5			44	12.88	...		46	54.8	M							

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42.66

40.88

26.09
25.72

58.82

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
430 <i>Anon.</i>										440 <i>24 Ursæ Minoris.</i>									
June 18	8.0	17	45	42 ⁶⁶ 58	...	128	35	31.2	M	July 2	...	18	17	25.56	3	3	0	51.0	R
431 <i>Lacaille 7499.</i>										<i>24 Ursæ Minoris—s.p.</i>									
May 30	7.4	17	48	57.14	...	129	4	50.1	R	Jan. 26	...	18	17	25.61	2	3	0	50.8	M
432 <i>33 Draconis γ</i>										Feb. 3	...	17	25 ⁰⁴ 21	3	0	50.0	R		
June 17	...	17	53	40 ⁸⁸ 51	...	38	29	46.0	M	6	...	17	25 ⁰⁷ 00	3	0	50.3	R		
433 <i>Anon.</i>										7	...	17	26.15	3	0	49.7	R		
July 2	10.0	18	4	20.01	...	59	9	50.0	R	441 <i>O. A. S. 18326.</i>									
434 <i>13 Sagittarii μ¹</i>										June 24	8.4	18	23	58 ² 80	...	109	14	35.3	M
Aug. 19	...	18	6	13.58	5	111	5	22.7	M	442 <i>V Sagittarii, Var. 5.</i>									
22	...	6	13.85	...	5	22.6	M	Aug. 26	...	18	24	0.69	4	108	20	49.1	M		
26	...	6	13.61	...	5	21.9	M	27	7.7	24	0.71	...	20	51.4	M				
435 <i>14 Sagittarii.</i>										29	7.8	24	0.81	...	20	51.3	M		
July 15	5.0	18	6	41.58	...	111	44	38.6	R	443 <i>Taylor 8527.</i>									
Aug. 6	...	6	41.71	...	44	41.4	R	July 14	6.1	18	24	3.10	...	108	29	9.8	R		
12	5.6	6	41.61	...	44	40.5	M	444 <i>U Sagittarii, Var. 4.</i>											
13	5.7	6	41.66	...	44	39.9	M	Aug. 6	...	18	24	23.07	...	109	12	39.5	R		
436 <i>Anon.</i>										8	6.2	24	27.94	...	12	40.3	M		
Aug. 21	8.0	18	7	23.19	...	122	22	37.7	M	12	6.5	24	27.80	...	12	40.3	M		
31	8.0	7	23.27	...	22	39.2	M	445 <i>θ Coronæ Australis.</i>											
437 <i>15 Sagittarii.</i>										Aug. 14	6.9	18	24	30.12	...	132	24	1.4	M
Aug. 11	5.0	18	7	41.90	...	110	45	49.7	M	15	6.9	24	30.11	...	24	0.9	M		
15	5.2	7	41.75	...	45	47.8	M	446 <i>O. A. S. 18346.</i>											
18	...	7	41.95	4	45	51.6	M	July 15	7.1	18	24	48.07	...	109	12	37.0	R		
438 <i>Lacaille 7644.</i>										447 <i>Taylor 8551.</i>									
July 20	...	18	9	39.94	...	132	19	58.5	R	July 20	7.3	18	28	10.75	...	149	13	17.0	R
439 <i>23 Ursæ Minoris δ</i>										Sep. 7	7.3	28	10.71	...	18	17.0	R		
July 15	...	18	12	59.04	3	3	23	31.2	R										
Sep. 4	...	12	58.52	3	23	32.1	R												
5	...	12	58.42	3	23	32.2	R												

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Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
448 <i>Anon.</i>									Aug. 22	...	18	45	25.51	...	56	46	57.4	M	
Sep. 4	9.7	18	30	6.75	...	135	12	2.8	R	25	...	45	25.66	...	46	57.9	M		
5	9.7	30	6.71	...	12	2.1	R	26	...	45	25.48	...	46	58.2	M				
8	9.7	30	6.86	...	12	1.9	R	27	...	45	25.87	...	46	58.6	M				
										28	...	45	25.61	...	46	56.9	M		
										31	...	45	25.62	...	46	57.8	M		
449 <i>Anon.</i>									456 <i>Anon.</i>										
July 14	9.0	18	30	10.51	...	135	51	26.6	R	July 15	8.1	18	46	31.32	...	126	40	15.4	R
15	9.0	30	10.46	...	51	25.4	R												
450 <i>3 Lyræ a, Vega.</i>									457 <i>Anon.</i>										
Aug. 8	...	18	32	40.35	...	51	19	58.8	M	Sep. 4	9.0	18	48	0.89	...	116	5	32.9	R
12	...	32	40.19	...	19	57.4	M	5	9.0	48	0.90	...	5	32.5	R				
13	...	32	40.32	...	19	57.2	M	7	9.1	48	0.88	...	5	32.8	R				
15	...	32	40.39	...	19	57.5	M	8	9.1	48	0.76	...	5	31.1	R				
21	...	32	40.29	...	19	57.0	M	10	9.2	48	0.69	...	5	33.1	R				
22	...	32	40.32	...	19	58.0	M												
24	...	32	40.33	...	19	56.9	M	458 <i>R. P. L. 131.</i>											
25	...	32	40.30	...	19	59.0	M	July 30	...	18	55	48.42	3	3	27	8.7	R		
31	...	32	40.28	...	19	58.8	M	Sep. 2	...	55	47.94	3	27	10.4	R				
451 <i>Anon.</i>									10	...	55	48.97	3	27	8.0	R			
July 14	9.0	18	35	23.41	...	136	44	27.8	R	12	...	55	48.97	3	27	9.0	R		
452 <i>Anon.</i>									15	...	55	48.97	3	27	8.2	R			
July 20	9.6	18	35	44.76	...	137	15	47.7	R	16	...	55	48.23	3	27	8.6	R		
453 <i>Anon.</i>									459 <i>Anon.</i>										
July 15	9.0	18	41	5.87	...	127	26	58.4	R	Sep. 4	10.0	18	57	53.49	...	111	20	19.2	R
Aug. 24	8.9	41	5.86	...	26	59.1	M	5	10.0	57	53.58	...	20	19.5	R				
Sep. 2	9.0	41	5.64	...	26	59.2	R	8	10.1	57	53.57	...	20	19.9	R				
454 <i>O. A. S. 18773.</i>									460 <i>17 Aquilæ ζ</i>										
July 14	9.0	18	45	3.01	...	118	17	36.7	R	Aug. 12	...	18	59	37.20	...	76	19	21.4	M
455 <i>10 Libræ β¹, Var. 1.</i>									14	...	59	37.10	...	19	21.4	M			
Aug. 12	...	18	45	25.71	3	56	46	57.3	M	25	...	59	37.11	...	19	21.2	M		
13	...	45	25.68	...	46	55.8	M	26	...	59	37.20	6	19	21.5	M				
14	...	45	25.71	...	46	57.8	M	27	...	59	37.03	6	19	20.6	M				
15	...	45	25.59	...	46	56.4	M	28	...	59	37.06	...	19	20.3	M				
										29	...	59	37.14	...	19	22.6	M		
										31	...	59	37.09	...	19	20.3	M		
										Sep. 3	...	59	37.08	...	19	19.8	R		

46.74
48.55

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Number and Date.	Magnitude.	Mean Right Ascension. 1874.			No. of Wires.	Mean Polar Distance. 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
Sep. 7	...	18	59	36.97	...	76	19	20.5	R	Aug. 26	...	19	11	54.11	...	78	37	48.1	M
14	...	59	37.00	...	...	19	19.6	R	27	...	11	54.06	...	...	37	47.8	M		
16	...	59	37.06	...	...	19	18.0	R	28	...	11	54.05	...	...	37	46.5	M		
17	...	59	37.01	...	...	19	18.9	R	31	...	11	54.10	...	...	37	48.0	M		
461 <i>Anon.</i>										Sep. 2	...	11	54.09	...	...	37	46.8	R	
July 2	9.6	19	5	49.47	...	126	27	17.6	R	4	...	11	54.13	...	...	37	46.3	R	
14	9.5	5	49.54	...	...	27	19.4	R	10	...	11	54.09	...	...	37	48.0	R		
19	...	11	54.10	...	...	37	45.0	R	19	...	11	54.10	...	...	37	45.0	R		
462 <i>Anon.</i>										470 <i>30 Aquilæ δ</i>									
July 15	9.0	19	7	47.65	...	129	46	40.9	R	July 20	...	19	19	8.65	...	87	8	4.4	R
463 <i>Anon.</i>										Aug. 3	...	19	8.00	...	...	8	0.4	M	
July 30	9.4	19	9	0.06	...	129	48	3.5	R	14	...	19	8.55	5	8	5.2	M		
464 <i>Anon.</i>										24	...	19	8.67	...	...	8	4.3	M	
Sep. 5	9.6	19	9	41.52	...	109	31	46.1	R	26	...	19	8.65	...	...	8	5.3	M	
14	9.6	9	41.86	...	...	31	45.7	R	27	...	19	8.65	...	...	8	5.1	M		
16	9.5	9	41.88	...	...	31	45.4	R	28	...	19	8.62	...	...	8	4.3	M		
465 <i>Anon.</i>										31	...	19	8.72	...	...	8	6.1	M	
Sep. 15	8.2	19	10	3.44	...	129	46	6.3	R	Sep. 2	...	19	8.07	...	...	8	3.7	R	
17	8.5	10	3.24	...	...	46	9.2	R	3	...	19	8.70	...	...	8	2.6	R		
466 <i>Anon.</i>										4	...	19	8.64	...	...	8	3.2	R	
Sep. 7	8.1	19	10	54.55	...	146	11	56.4	R	5	...	19	8.73	...	...	8	3.6	R	
12	8.1	10	54.59	...	...	11	55.2	R	8	...	19	8.62	...	...	8	4.2	R		
467 <i>O. A. S. 19353.</i>										10	...	19	8.66	...	...	8	3.5	R	
July 2	7.3	19	10	56.68	...	116	17	55.8	R	14	...	19	8.47	...	...	8	3.8	R	
Aug. 29	7.9	10	56.50	4	...	17	58.2	M	17	...	19	8.57	...	...	8	2.0	R		
468 <i>O. A. S. 19366.</i>										471 <i>52 Sagittarii h².</i>									
July 20	8.1	19	11	15.89	...	116	16	0.8	R	Aug. 27	...	19	29	2.03	5	115	9	35.8	M
469 <i>25 Aquilæ ω</i>										29	...	29	2.13	...	...	9	35.1	M	
Aug. 8	...	19	11	54.18	...	78	37	49.4	M	Sept. 2	...	29	2.28	...	...	9	36.3	R	
24	...	11	54.35	...	...	37	46.0	M	3	...	29	2.10	...	...	9	34.0	R		
472 <i>13 Cygni θ</i>										5	...	29	2.18	...	...	9	33.2	R	
July 14	...	19	33	3.79	...	40	4	9.7	R	7	...	29	2.21	...	...	9	34.8	R	
20	...	33	3.89	4	10.8	R	8	...	29	2.21	9	33.0	R		
										14	...	29	2.17	9	34.7	R	
										26	...	29	2.23	9	33.8	R	
										28	...	29	2.17	9	33.8	R	

3.48

54.69

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Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
473 Anon.									479 55 Aquilæ η, Var. 1.										
Aug. 29	9.0	19	35	3.39	6	127	15	43.9	M	Aug. 13	4.9	19	46	3.20	...	89	18	59.4	M
474 50 Aquilæ γ									Aug. 21	4.8	...	46	3.27	...	...	18	56.8	M	
Aug. 11	...	19	40	16.14	...	79	41	31.6	M	Aug. 22	...	...	46	3.26	...	...	18	57.8	M
Sept. 4	...	...	40	16.10	...	...	41	30.8	R	Sept. 4	...	...	46	3.40	...	...	18	57.5	R
10	...	...	40	16.18	...	...	41	30.7	R	7	...	...	46	3.46	...	...	18	56.6	R
16	...	...	40	16.13	...	...	41	30.5	R	14	...	...	46	3.55	...	...	18	58.0	R
19	...	...	40	16.13	...	...	41	29.1	R	480 O. A. S. 20055.									
24	...	...	40	16.16	...	...	41	31.7	R	Sept. 5	9.0	19	46	54.01	...	107	44	16.9	R
26	...	...	40	16.06	...	...	41	31.0	R	481 60 Aquilæ β									
29	...	...	40	16.16	...	...	41	31.9	R	Sept. 12	...	19	49	7.50	...	83	54	22.2	R
30	...	...	40	16.09	...	...	41	31.2	R	15	...	...	49	7.52	...	...	54	22.0	R
Oct. 3	...	...	40	16.24	...	...	41	32.7	M	28	...	...	49	7.41	...	...	54	19.7	R
475 O. A. S. 19996.									30	...	...	49	7.52	...	...	54	23.0	R	
July 20	9.5	19	42	52.08	...	108	10	34.9	R	Oct. 3	...	...	49	7.43	...	...	54	22.6	M
Sept. 2	9.5	...	42	51.70	...	...	10	35.4	R	482 Anon.									
476 S. Vulpeculæ, Var. 3.									Sept. 7	8.7	19	50	21.81	...	145	55	17.4	R	
Aug. 31	8.9	19	43	13.91	...	63	1	37.5	M	483 O. A. N. 20046.									
477 53 Aquilæ α, Altair.									Sept. 4	9.1	20	2	52.55	...	32	21	48.9	R	
Aug. 29	...	19	44	37.98	...	81	27	46.0	M	5	9.2	...	2	52.67	...	...	21	49.0	R
Sept. 12	...	...	44	38.12	...	...	27	42.0	R	7	9.1	...	2	52.58	...	...	21	50.5	R
15	...	...	44	38.08	...	...	27	43.0	R	10	9.4	...	2	52.41	...	...	21	49.0	R
19	...	...	44	38.12	...	...	27	43.3	R	12	9.2	...	2	52.43	...	...	21	45.6	R
21	...	...	44	38.02	...	...	27	44.4	R	14	9.2	...	2	52.34	...	...	21	49.3	R
24	...	...	44	38.19	...	...	27	46.2	R	15	9.1	...	2	52.60	...	...	21	49.4	R
28	...	...	44	38.14	...	...	27	44.8	R	484 Anon.									
30	...	...	44	38.08	...	...	27	45.7	R	July 14	10.0	20	5	50.79	...	74	46	38.0	R
Oct. 6	...	...	44	38.22	...	...	27	46.4	M	Sept. 16	9.1	...	5	50.60	...	...	46	40.2	R
478 Lacaille 8249.									17	9.2	...	5	50.58	...	...	46	38.7	R	
July 14	7.5	19	44	43.01	...	123	17	47.8	R	28	9.2	...	5	50.44	...	...	46	40.7	R
Sept. 3	7.6	...	44	43.00	17	50.0	R	Oct. 3	9.5	...	5	50.66	46	39.4	M
									5	9.4	...	5	50.55	6	...	46	42.6	M	
									6	9.5	...	5	50.30	46	37.1	M	

38.07

38.16

7.51

52.46

52.49

50.62

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Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<i>R. P. L. 143—s.p.</i>									Oct. 15	...	20	87	8'18	...	45	10	9'3	M	
Feb. 23	...	20	28	17'01	3	5	16	27'0	R	16	...	37	8'11	...	10	8'6	M		
24	...	28	17'28	3		16	26'0	R	17	...	37	8'11	...	10	6'8	M			
Mar. 3	...	28	16'28	3		16	28'6	M	21	...	37	8'18	...	10	7'6	M			
5	...	28	17'12	3		16	28'0	M	22	...	87	8'18	...	10	8'1	M			
6	...	28	16'31	3		16	29'7	M	504 <i>W. B. E. XX. 935.</i>										
16	...	28	16'32	3		16	28'5	R											
17	...	28	16'68	3		16	26'7	R	July 20	8'1	20	37	15'43	...	73	20	56'2	R	
498 <i>Anon.</i>									30	8'0	37	15'34	...	20	56'4	R			
Sep. 5	8'9	20	28	35'70	...	143	14	21'7	R	Aug. 14	9'0	37	15'42	...	20	56'5	M		
15	8'9	28	36'64	...		14	23'5	R	18	8'9	37	15'42	4	20	55'4	M			
499 <i>Anon.</i>									21	...	37	15'57	4	20	55'2	M			
July 14	9'5	20	29	20'32	...	121	4	25'5	R	505 <i>T Delphini, Var. 3.</i>									
500 <i>Anon.</i>									Sep. 12	10'5	20	30	31'49	...	74	3	27'9	R	
July 20	9'0	20	30	30'55	...	143	40	58'4	R	15	10'5	30	31'36	...	3	27'2	R		
501 <i>Anon.</i>									16	10'5	30	31'30	...	3	27'3	R			
Sep. 13	9'7	20	31	41'02	...	125	41	33'6	R	506 <i>W. B. E. XX. 1024.</i>									
16	9'3	31	40'98	...		41	33'8	R	Sep. 2	9'6	20	41	26'51	...	105	22	7'0	R	
19	9'6	31	40'64	...		41	33'2	R	507 <i>T Aquarii, Var. 4.</i>										
502 <i>Anon.</i>									Sep. 17	7'2	20	43	17'36	...	95	36	46'4	R	
July 30	9'6	20	32	9'43	...	124	38	43'6	R	19	9'0	48	17'32	...	36	44'1	R		
Sep. 2	9'6	32	9'19	...		38	44'8	R	26	8'0	43	17'28	...	36	45'4	R			
10	9'9	32	9'46	...		38	40'8	R	Oct. 3	8'0	43	17'53	5	36	46'3	M			
15	9'5	32	9'28	...		38	44'6	R	6	8'0	43	17'27	...	36	46'5	M			
503 <i>50 Cygni a</i>									508 <i>32 Vulpeculæ.</i>										
Aug. 15	...	20	37	8'22	...	45	10	9'0	M	Sep. 21	...	20	49	11'47	...	62	25	14'2	R
Sep. 21	...	37	8'10	...		10	8'7	R	26	...	49	11'48	...	25	13'4	R			
24	...	37	8'12	...		10	8'4	R	Oct. 10	...	49	11'30	...	25	13'9	M			
29	...	37	8'21	...		10	8'5	R	12	...	49	11'29	...	25	15'6	M			
Oct. 7	...	37	8'24	...		10	8'7	M	13	...	49	11'51	...	25	15'4	M			
8	...	37	8'09	...		10	7'9	M	14	...	49	11'31	...	25	13'6	M			
9	...	37	8'17	...		10	8'8	M	15	...	49	11'41	...	25	13'2	M			
10	...	37	8'19	...		10	7'6	M	16	...	49	11'37	...	25	13'7	M			
									17	...	49	11'43	...	25	15'4	M			
									19	...	49	11'30	...	25	14'1	M			

36-13

4107

31'48
34

17-42

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
509 <i>R Vulpeculæ, Var. 3.</i>									516 <i>T Capricorni, Var. 3.</i>										
46-63 Sep. 15	6.6	20	58	48 ³ 86	...	66	40	42.1	R	Sep. 2	9.3	21	14	58.87	...	105	37	39.8	R
Sep. 16	7.0		58	46.73	...	40	41.5	R	3	9.0		14	58.87	...	37	40.4	R		
Sep. 17	8.0		58	46.74	...	40	39.5	R	10	9.4		14	59.15	...	37	39.6	R		
Sep. 19	8.6		58	46.69	...	40	39.7	R	12	9.2		14	59.24	...	37	38.6	R	59.27	
510 <i>Anon.</i>									517 <i>Anon.</i>										
Sep. 3	9.7	20	59	21.86	...	148	50	18.2	R	Aug. 18	9.2	21	15	38.18	4	130	13	38.6	M
511 <i>Taylor 9772.</i>									518 <i>Anon.</i>										
July 30	8.3	21	1	11.84	...	145	4	52.5	R	July 30	9.7	21	23	31.53	...	110	4	51.0	R
512 <i>61 Cygni—2nd.</i>									519 <i>22 Aquarii β</i>										
Aug. 21	...	21	1	16.57	6	51	52	18.1	M	Sep. 2	...	21	24	55.33	...	96	7	25.0	R
Aug. 25	...		1	16.56	...	52	16.7	M	17	...		24	55.38	...	7	25.4	R		
Sep. 5	...		1	16.89	...	52	16.9	R	21	...		24	55.52	...	7	27.1	R		
Sep. 7	...		1	16.72	...	52	17.9	R	24	...		24	55.46	...	7	27.1	R		
Sep. 10	...		1	16.81	...	52	16.8	R	Oct. 7	...		24	55.35	...	7	26.8	M		
Sep. 12	...		1	16.84	...	52	16.9	R	9	...		24	55.52	...	7	26.0	M		
Sep. 14	...		1	16.61	...	52	16.2	R	10	...		24	55.50	...	7	27.9	M		
									12	...		24	55.53	...	7	29.4	M		
									13	...		24	55.38	...	7	28.7	M		
									15	...		24	55.42	...	7	27.4	M		
									16	...		24	55.53	...	7	26.2	M		
									21	...		24	55.42	...	7	27.3	M		
									22	...		24	55.45	...	7	26.7	M		
									28	...		24	55.43	...	7	26.4	M		
									29	...		24	55.48	...	7	25.7	M		
									30	...		24	55.41	...	7	26.5	M		
									31	...		24	55.39	...	7	27.5	M	55.38	
									Nov. 5	...		24	55.38	...	7	25.0	M	36	
513 <i>64 Cygni ζ</i>									520 <i>Anon.</i>										
Sep. 24	...	21	7	34.34	...	60	17	21.0	R	Sep. 12	9.5	21	29	29.15	...	134	1	40.5	R
Oct. 3	...		7	34.32	...	17	20.6	M	14	9.6		29	29.11	...	1	42.0	R	29.22	
Oct. 5	...		7	34.38	...	17	21.5	M	15	9.5		29	29.04	...	1	41.4	R	29.10	
Oct. 6	...		7	34.34	...	17	21.7	M											
Oct. 8	...		7	34.44	...	17	18.5	M											
Oct. 9	...		7	34.31	...	17	20.6	M											
Oct. 17	...		7	34.46	...	17	20.7	M											
Oct. 19	...		7	34.32	...	17	19.2	M											
Oct. 21	...		7	34.41	...	17	19.4	M											
Oct. 22	...		7	34.39	...	17	20.0	M											
Oct. 31	...		7	34.38	...	17	21.1	M											
Nov. 5	...		7	34.35	...	17	18.9	M											
514 <i>Anon.</i>									521 <i>Anon.</i>										
Sep. 14	10.6	21	8	56.84	...	110	46	40.2	R	Sep. 3	10.0	21	35	7.88	...	102	57	22.1	R
Sep. 15	10.5		8	56.94	...	46	39.9	R	4	10.0		35	7.98	6	57	22.7	R		
									7	10.2		35	7.92	...	57	23.5	R		
									12	10.0		35	7.90	...	57	24.0	R	7.92	
515 <i>Anon.</i>																			
July 30	9.7	21	14	26.32	...	128	57	47.8	R										

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
522 <i>S Cephei, Var. 3.</i>										530 <i>Anon.</i>										
44-95	Sep. 15	8.1	21	36	45.28	...	11	56	34.4	R	Oct. 29	10.0	22	2	33.95	...	114	56	53.8	M
	16	9.0		36	45.09	...		56	34.3	R	31	10.0		2	33.98	...		56	53.8	M
	17	8.2		36	45.28	...		56	34.1	R	Nov. 4	10.0		2	33.85	...		56	50.6	M
45-14	Oct. 6	8.0		36	45.42	5		56	34.6	M										
	7	8.0		36	44.66	...		56	34.3	M										
	9	8.3		36	44.62	...		56	34.4	M										
523 <i>8 Pegasi ε</i>										531 <i>Anon.</i>										
	Sep. 24	...	21	37	59.87	...	30	42	5.1	R	Oct. 3	9.5	22	2	35.22	4	114	51	49.4	M
	Oct. 28	...		37	59.70	...		42	4.7	M	5	9.4		2	35.25	6		51	50.7	M
	29	...		37	59.74	...		42	5.1	M	7	9.5		2	35.46	...		51	48.8	M
	30	...		37	59.79	...		42	5.3	M										
	Nov. 2	...		37	59.02	...		42	5.2	R										
524 <i>μ Cephei, Var. 2.</i>										532 <i>Anon.</i>										
	Aug. 18	5.9	21	39	39.47	...	31	47	49.7	M	Opt. 12	9.3	22	3	46.96	...	129	2	26.9	M
	Sep. 2	6.0		39	39.43	...		47	50.4	R	13	9.4		3	46.97	...		2	26.3	M
525 <i>Anon.</i>										533 <i>Anon.</i>										
20-70	Nov. 5	10.3	21	44	20.73	4	102	29	42.4	M	Sep. 17	9.0	22	3	51.52	...	101	5	59.9	R
526 <i>Anon.</i>										534 <i>38 Aquarii ε^a</i>										
	Oct. 10	7.9	21	41	42.23	...	37	16	39.7	M	Oct. 10	5.9	22	3	53.33	...	102	11	0.3	M
	12	7.9		41	42.33	...		16	41.8	M										
527 <i>51 Capricorni μ</i>										535 <i>Lalande 43402.</i>										
	Sep. 4	5.1	21	46	25.46	...	104	8	36.3	R	Sep. 2	9.0	22	8	55.07	...	99	1	20.5	R
528 <i>16 Pegasi.</i>										536 <i>43 Aquarii θ</i>										
	Oct. 5	...	21	47	19.80	...	64	40	2.6	M	Oct. 5	...	22	10	11.01	6	98	24	36.5	M
	27	...		47	19.76	...		40	0.4	M	Nov. 5	...		10	11.13	...		24	33.0	M
	30	...		47	19.88	...		40	1.4	M	9	...		10	11.05	...		24	34.7	R
14-03	Nov. 2	...		47	19.83	...		40	2.2	R	10	...		10	11.01	...		24	34.9	R
529 <i>34 Aquarii α</i>										537 <i>Anon.</i>										
	Sep. 16	...	21	59	18.64	...	90	55	51.5	R	Sep. 2	9.5	22	14	53.09	...	146	31	28.5	R
	Oct. 28	...		59	18.81	5		55	51.5	M	12	9.6		14	53.61	...		31	26.1	R
18-65	Nov. 2	...		59	18.86	...		55	52.2	R	538 <i>Anon.</i>									
	11	...		59	18.62	...		55	52.3	R	Nov. 11	8.1	22	15	51.13	...	82	44	24.0	R
											12	8.0		15	51.61	...		44	24.2	R

Separate Results of Madras Meridian Circle Observations in 1874.

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
539 <i>Anon.</i>									R. P. L. 153—s.p.										
Sep. 17	10.1	22	16	29.50	...	32	39	35.2	R	Mar. 5	...	22	28	9.80	3	2	33	31.6	M
21	10.2		16	29.11	...		39	37.4	R	9	...		28	11.01	2		33	30.3	M
										11	...		28	11.02	3		33	33.7	M
										14	...		28	10.12	3		33	30.7	R
										Apl. 4	...		28	9.60	3		33	33.1	R
										6	...		28	9.55	3		33	29.1	R
540 <i>Anon.</i>																			
Sep. 14	9.5	22	19	38.84	...	38	39	50.1	R										
16	9.7		19	38.32	...		39	49.7	R										
Oct. 12	9.9		19	38.59	...		39	51.2	M										
541 <i>R. P. L. 150—s.p.</i>																			
Feb. 20	...	22	23	1.76	5	4	31	39.6	R	Sep. 10	...	22	28	53.78	...	90	45	57.2	R
21	...		23	0.95	3		31	38.2	R	Nov. 10	...		28	52.84	...		45	59.2	R
										14	...		28	52.79	...		45	58.5	R
										17	...		28	52.80	...		45	58.2	R
542 <i>R. P. L. 151.</i>																			
Sep. 21	...	22	23	27.89	3	4	24	45.5	R										
Oct. 16	...		23	28.93	3		24	45.0	M										
17	...		23	29.12	2		24	44.9	M										
29	...		23	29.24	3		24	46.0	M										
31	...		23	29.37	3		24	45.3	M										
543 <i>Anon.</i>																			
Sep. 2	9.5	22	25	12.74	6	179	41	36.6	R										
17	9.5		25	12.65	...		41	35.1	R										
Oct. 9	9.7		25	12.72	...		41	32.9	M										
544 <i>Anon.</i>																			
Oct. 30	9.6	22	25	18.70	...	146	47	32.1	M										
Nov. 11	9.8		25	19.00	...		47	29.2	R										
12	9.5		25	19.00	...		47	30.7	R										
545 <i>R. P. L. 153.</i>																			
Nov. 4	...	22	23	10.56	3	2	33	32.0	M										
									546 <i>62 Aquarii η</i>										
									Sep. 10	...	22	28	53.78	...	90	45	57.2	R	
									Nov. 10	...		28	52.84	...		45	59.2	R	
									14	...		28	52.79	...		45	58.5	R	52.64
									17	...		28	52.80	...		45	58.2	R	52.93
									547 <i>Anon.</i>										
									Sep. 17	9.0	22	34	53.41	...	155	23	11.8	R	
									548 <i>42 Pegasi ζ</i>										
									Oct. 27	...	22	35	10.60	...	79	49	29.6	M	
									Nov. 3	...		35	10.67	...		49	29.9	R	
									9	...		35	10.67	...		49	32.0	R	52.6
									12	...		35	10.58	...		49	33.5	R	52.8
									13	...		35	10.59	...		49	31.8	R	
									17	...		35	10.61	...		49	30.9	R	56
									19	...		35	10.67	...		49	33.2	R	54
									21	...		35	10.57	...		49	31.6	R	57
									549 <i>Anon.</i>										
									Oct. 5	9.0	22	49	42.49	...	152	32	2.2	M	
									6	9.0		49	42.25	...		32	0.8	M	42.43
									550 <i>2 Piscis Australis α, Fomalhaut.</i>										
									Sep. 10	...	22	50	40.93	...	120	17	20.3	R	
									Oct. 29	...		50	41.03	...		17	21.5	M	
									31	...		50	41.02	...		17	21.5	M	40.97
									Nov. 10	...		50	40.90	...		17	22.4	R	
									19	...		50	41.13	...		17	22.7	R	40.96
									21	...		50	41.05	...		17	21.5	R	40.96

19-51

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Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
551 <i>Anon.</i>									559 <i>Anon.</i>										
Sep. 7	9.0	22	52	21.18	...	85	23	15.6	R	Oct. 28	8.8	23	12	41.17	...	137	0	38.2	M
552 <i>Anon.</i>									560 <i>Groombridge 4040.</i>										
Oct. 12	9.7	22	57	40.50	...	57	8	51.1	M	Sep. 12	6.8	23	13	20.11	...	16	59	56.2	R
13	9.9	57	40.55	...	8	49.3	M	Oct. 29	6.1	18	20.28	...	59	57.5	M				
553 <i>54 Pegasi α, Markab.</i>									561 <i>T Cephei, Var. 4.</i>										
Oct. 7	...	22	58	29.09	...	75	28	20.5	M	Nov. 12	8.0	23	14	54.17 ²⁴	...	34	34	32.1	R
28	...	58	29.06	...	28	19.0	M	13	8.3	14	54.18 ²⁴	...	34	32.5	R				
Nov. 7	...	58	29.06 ⁶¹	...	28	19.9	R	14	8.5	14	54.21 ⁶	...	34	34.0	R				
9	...	58	29.04 ⁶¹	...	28	19.6	R	17	8.6	14	54.14 ³³	...	34	32.2	R				
11	...	58	29.14	...	28	19.5	R	19	8.4	14	54.28	...	34	32.7	M				
14	...	58	29.30	...	28	19.0	R	20	8.6	14	54.28 ⁶⁸	...	34	32.9	R				
19	...	58	29.23 ^{21.00}	...	28	16.5	R	21	8.3	14	54.46 ⁶⁷	...	34	32.5	R				
20	...	58	29.07 ¹⁶	...	28	17.4	R	25	8.7	14	54.27 ⁶⁶	...	34	32.7	R				
										27	...	14	54.28 ⁵²	...	34	34.3	R		
554 <i>Lacaille 9377.</i>									562 <i>Anon.</i>										
Oct. 9	7.6	23	2	49.29	...	151	14	47.4	M	Nov. 3	9.8	23	16	14.61	...	130	36	28.1	R
555 <i>6 Piscium γ</i>									563 <i>Anon.</i>										
Nov. 3	...	23	10	37.95	...	87	24	18.4	R	Nov. 14	10.0	23	18	47.76 ⁶⁷	...	131	5	10.5	R
4	...	10	38.01	...	24	20.0	M	7	...	10	10.2	16	14.62	...	36	27.5	R		
7	...	10	37.96	...	24	22.7	R	11	...	11	10.3	16	14.56	...	36	27.9	R		
11	...	10	37.93	...	24	21.1	R	564 <i>Anon.</i>											
13	...	10	37.93	...	24	18.6	R	Nov. 12	9.6	23	20	14.87 ³	...	109	16	3.2	R		
27	...	10	37.89 ⁹²	...	24	19.6	R	565 <i>Anon.</i>											
556 <i>Anon.</i>									566 <i>8 Piscium κ</i>										
Oct. 30	9.6	23	11	41.52	...	151	12	29.3	M	Nov. 7	...	23	20	28.36 ⁴	...	89	25	3.4	R
31	9.5	11	41.49 ⁸³	...	12	30.9	M	20	...	20	28.38 ⁵	...	26	2.3	R				
557 <i>Anon.</i>									567 <i>Anon.</i>										
Oct. 3	9.3	23	12	7.12	...	131	4	55.6	M	Nov. 4	9.6	20	17.16	5	34	48.7	M		
14	9.6	12	6.90	...	4	54.1	M	568 <i>Anon.</i>											
558 <i>Anon.</i>									568 <i>Anon.</i>										
Oct. 15	9.5	23	12	10.96	...	129	54	37.3	M	Nov. 7	...	23	20	28.36 ⁴	...	89	25	3.4	R
16	9.3	12	10.67	...	54	35.6	M	20	...	20	28.38 ⁵	...	26	2.3	R				
17	9.3	12	10.77	...	54	37.1	M	25	...	20	28.26 ⁴	...	26	3.1	R				
										28	...	20	28.40	...	26	0.6	R		
										Dec. 5	...	20	28.35	3	26	1.9	M		
										7	...	20	28.41	5	26	1.0	M		

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Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
567 Lacaille 9514.										574 Anon.									
Oct. 5	8.9	23	26	25.28	...	131	32	29.1	M	Nov. 2	9.5	23	35	59.22	...	107	51	7.9	R
568 Anon.										55.19									
Oct. 6	9.0	23	28	13.02	...	108	24	24.0	M	4	9.9	35	59.26	...	51	9.0		M	2.1
569 17 Piscium ϵ										575 Anon.									
Nov. 3	...	23	33	28.14	...	85	3	20.8	R	Nov. 11	9.5	23	36	30.64	...	128	6	23.8	R
25	...	33	28.23	...	3	21.5		R	14	9.6	36	30.46	...	6	20.8		R	30.34	
27	...	33	28.09	...	3	22.4		R	576 δ Sculptoris.										
28	...	33	28.14	...	3	19.7		R	Nov. 13	...	23	42	21.81	...	118	49	35.5	R	21.576
30	...	33	28.15	...	3	21.0		R	17	...	42	21.58	...	49	35.5		R	21.46	
Dec. 2	...	33	28.16	...	3	18.9		R	21	...	42	21.63	...	49	35.9		R	.59	
3	...	33	28.14	...	3	19.1		R	27	...	42	21.69	...	49	37.3		R	.63	
5	...	33	28.18	...	3	22.7		M	30	...	42	21.58	...	49	34.7		R	.51	
7	...	33	28.08	...	3	22.4		M	Dec. 2	...	42	21.53	...	49	36.1		R	.48	
8	...	33	28.08	...	3	22.7		M	4	...	42	21.60	...	49	36.3		R		
570 35 Cephei γ										577 Anon.									
Oct. 8	...	23	34	12.08	...	13	4	16.5	M	Oct. 5	9.2	23	43	14.57	5	150	50	47.0	M
7	...	34	11.67	...	4	14.3		M	Nov. 3	9.5	43	14.89	...	50	43.3		R		
10	...	34	11.53	...	4	15.7		M	578 Anon.										
13	...	34	11.20	...	4	15.3		M	Sep. 17	9.4	23	43	18.45	...	129	40	27.4	R	
14	...	34	11.51	...	4	14.5		M	579 Anon.										
571 Anon.										580 Anon.									
Oct. 15	9.5	23	34	53.34	...	147	24	8.8	M	Oct. 10	9.5	23	48	2.79	...	150	42	32.2	M
572 Anon.										579 Anon.									
Nov. 12	10.1	23	35	34.69	...	107	45	48.8	R	Oct. 16	9.0	23	43	34.20	...	85	18	5.9	M
13	10.2	35	34.22	...	45	47.2		R	17	9.0	43	34.11	...	18	7.2		M		
20	10.0	35	34.97	...	45	47.7		R	19	9.0	43	33.94	4	18	7.7		M		
21	10.0	35	34.91	...	45	47.5		R	29	9.0	43	34.32	...	18	5.8		M		
573 Anon.										579 Anon.									
Oct. 16	9.5	23	35	43.61	...	107	46	5.1	M	30	9.0	43	34.03	...	18	5.6		M	
17	9.6	35	43.60	4	46	8.2		M	580 Anon.										
29	9.7	35	43.63	...	46	5.0		M	Oct. 10	9.5	23	48	2.79	...	150	42	32.2	M	
30	9.7	35	43.46	...	46	7.7		M											

28.13
.16
.15
.23

34.65
.78
30.91

55.19
.21

30.34
21.576
21.46
.59
.63
.51
.48

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
581 <i>G. C. Z. XXIII. 1321.</i>																			
Dec. 2	9.3	23	48	29.20	...	150	40	19.2	R										
Dec. 3	9.3	23	48	29.13	...	150	40	19.6	R										
4	9.5	48	29.11	...	40	20.0			R										
582 <i>R Cassiopeæ, Var. 3.</i>																			
Oct. 6	8.0	23	52	0.96	...	39	18	46.8	M										
9	8.5	52	0.83	...	18	47.7			M										
12	8.0	52	0.81	...	18	48.5			M										
13	8.5	52	0.79	...	18	48.0			M										
14	8.9	52	0.75	...	18	45.5			M										
29	8.0	52	1.06	...	18	46.9			M										
583 <i>Anon.</i>																			
Sep. 17	8.6	23	52	16.84	...	152	17	15.8	R										
584 <i>Anon.</i>																			
Oct. 31	9.5	23	52	30.75	...	143	12	39.4	M										
Nov. 2	9.6	52	30.68	...	12	39.2			R										
585 <i>28 Piscium ω</i>																			
Nov. 12	...	23	52	50.40	...	83	50	3.4	R										
30	...	52	50.46	...	50	0.5			R										
Dec. 1	...	52	50.53	...	50	1.5			R										
4	...	52	50.50	...	50	1.4			R										
586 <i>30 Piscium.</i>																			
Nov. 28	5.0	23	55	29.84	...	96	42	50.4	R										
30	...	55	29.70	...	42	51.6			R										
Dec. 2	4.8	55	30.02	...	42	50.1			R										
3	4.8	55	29.94	...	42	48.1			R										
587 <i>Anon.</i>																			
Nov. 3	9.5	23	56	29.74	...	130	13	40.7	R										
588 <i>Anon.</i>																			
Oct. 7	9.3	23	56	57.13	...	126	40	3.0	M										
8	9.4	56	57.26	...	40	0.6			M										
589 <i>Taylor 10997.</i>																			
Nov. 9	9.3	23	58	34.30	...	126	43	9.2	R										
590 <i>Anon.</i>																			
Oct. 3	9.0	23	59	6.15	...	125	49	53.3	M										
31	9.2	59	6.27	...	49	53.9			M										

0.92

50.50
53

29.82
80
06

6.27

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 ...	+ 3.0781	+ 0.0182	+ 0.010	- 20.054	+ 0.013	+ 0.16	3215
2	... ..	+ 3.0616	- 0.0207	...	- 20.053	+ 0.013	...	...
3	... ..	+ 3.0487	- 0.0194	...	- 20.048	+ 0.019	...	...
4	88 Pegasi γ ...	+ 3.0823	+ 0.0100	- 0.001	- 20.046	+ 0.022	+ 0.01	1
5	... ..	+ 3.2999	+ 0.0710	...	- 19.981	+ 0.049	...	...
6	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.949	+ 0.055	+ 0.01	38
7	... ..	+ 3.1103	+ 0.0109	...	- 19.920	+ 0.061	...	...
8	U Piscium, Var. 4 ...	+ 3.0971	+ 0.0075	...	- 19.797	+ 0.080	...	...
9	16 Ceti β ...	+ 2.9991	- 0.0055	+ 0.015	- 19.790	+ 0.080	- 0.03	70
10	R. P. L. 10 ...	+ 12.9828	+ 7.5332	+ 0.061	- 19.590	+ 0.413	+ 0.03	Main
11	2 Ursæ Minoris ...	+ 6.9546	+ 1.3311	+ 0.067	- 19.543	+ 0.236	+ 0.01	92
12	R. P. L. 14 ...	+ 8.2581	+ 2.0616	+ 0.053	- 19.473	+ 0.236	+ 0.02	95
13	71 Piscium ϵ ...	+ 3.1134	+ 0.0087	- 0.007	- 19.450	+ 0.119	- 0.04	113
14	... ..	+ 4.2028	+ 0.1622	...	- 19.324	+ 0.171	...	...
15	... ..	+ 4.1805	+ 0.1517	...	- 19.264	+ 0.177	...	...
16	S Cassiopeiæ, Var. 4.	+ 4.3129	+ 0.1632	...	- 19.115	+ 0.199	...	...
17	S Piscium, Var. 2 ...	+ 3.1314	+ 0.0100	...	- 19.100	+ 0.147	...	...
18	R. P. L. 18 ...	+ 14.2773	+ 6.4481	...	- 19.088	+ 0.647	...	...
19	... ..	+ 2.2822	- 0.0202	...	- 19.067	+ 0.111	...	...
20	... ..	+ 2.2810	- 0.0203	...	- 19.057	+ 0.111	...	...
21	1 Urs. Min. α (Polaris)	+ 20.5784	+ 14.7475	+ 0.108	- 19.012	+ 0.943	+ 0.00	102
22	45 Ceti θ^1 ...	+ 3.0031	+ 0.0018	- 0.007	- 18.912	+ 0.154	+ 0.20	184
23	93 Piscium ρ ...	+ 3.2243	+ 0.0163	- 0.006	- 18.862	+ 0.168	- 0.03	185
24	Lalande 2625 ...	+ 3.1591	+ 0.0117	...	- 18.834	+ 0.166	...	...
25	... ..	+ 3.0711	+ 0.0063	...	- 18.706	+ 0.170	...	...
26	99 Piscium η ...	+ 3.1989	+ 0.0141	- 0.000	- 18.699	+ 0.177	+ 0.00	203
27	106 Piscium ν ...	+ 3.1178	+ 0.0091	- 0.003	- 18.361	+ 0.191	- 0.01	228
28	6 Arietis β ...	+ 3.2948	+ 0.0183	+ 0.005	- 17.881	+ 0.226	+ 0.10	252
29	... ..	+ 1.7897	+ 0.0006	...	- 17.081	+ 0.144	...	...
30	... ..	+ 3.1071	+ 0.0090	...	- 17.048	+ 0.246	...	...
31	67 Ceti ...	+ 2.9836	+ 0.0049	+ 0.004	- 16.880	+ 0.242	+ 0.11	321
32	R Ceti, Var. 2 ...	+ 3.0620	+ 0.0077	...	- 16.448	+ 0.263	...	...
33	73 Ceti ξ^2 ...	+ 3.1795	+ 0.0117	+ 0.001	- 16.355	+ 0.276	+ 0.00	347
34	R. P. L. 26 ...	+ 15.9925	+ 3.7049	...	- 16.168	+ 1.387	...	...
35	86 Ceti γ ...	+ 3.1121	+ 0.0094	- 0.011	- 15.543	+ 0.294	+ 0.16	383

10.—Proper motions from Main's list.