

RESULTS
OF
OBSERVATIONS OF THE FIXED STARS

MADE WITH THE
MERIDIAN CIRCLE

AT THE
GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1883, 1884, 1885, 1886, AND 1887

UNDER THE DIRECTION OF THE LATE

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

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INTRODUCTION.

This volume contains the results of the observations made with the Madras Meridian Circle in the years 1883-87 and completes the series of volumes preliminary to the general catalogue. The number of observations made during this period was only 4052, since after 1883 few observations were made except those required to complete the full number for each star in the list. The observers were the same as in the previous three years and no change has been made in the method of reduction.

The reductions have been revised throughout using corrected values for the meridian errors.

With this volume are also issued lists of the corrections that have to be applied to the results in volume I. to VI. on account of erroneous determinations of meridian error. The most serious errors were due to the use of the stars R. P. L. 14 (Groombridge 195), referred to in last volume, and 24 Cephei (Hev.). The position of this latter star was apparently taken from the *Radcliffe Polar List* and was brought up without the application of any proper motion. No proper motion is ascribed to this star either in the *Greenwich nine-year Catalogue* or in the *Williams College Catalogue*, but Carrington notes it is a proper motion star and there can be little doubt that it has a considerable proper motion. The positions given for 1885 in the *Redhill* and *Radcliffe* catalogues agree fairly well with each other but differ by about 12" from the place given by Safford's observations in 1883. As this star was in certain years frequently used for the determination of the azimuth it is evident that very serious errors were introduced. These errors ought certainly to have been discovered at an early date, but several circumstances conspired to conceal them. Into these it is not necessary to enter in detail here, but I may point out that when I took up the work in 1891, I had no experience either of the accuracy of the observations or of the steadiness of the instrument, and I underestimated

both. The corrections that have now been applied show that the older observations especially were very good and that the instrument was remarkably stable. After heavy rain there is usually a considerable and rapid change in the meridian error, but at other times changes are slow and progressive. Heavy rains are, I believe, responsible for a few outstanding cases of uncertain meridian error, for on a small number of days the error has had to be obtained by interpolation between days before and after such rain, but the number of observations affected is not great and the uncertainty lies between moderate limits.

One point that comes out clearly as a result of the investigation of the meridian errors is that for satisfactory work in low latitudes it is necessary to have either a much larger list of polar stars whose positions are accurately determined, or to have a good meridian mark. There are many nights here when good observations can be got of stars at a considerable altitude though it is quite impossible to get any observations of stars below the pole or even within 10° above the pole, and on a good many other nights stars below the pole are so unsteady that they, at times, appear to dance backwards and forwards across the wires. In the great majority of observations of polar stars the transits were taken over only three wires, and in many cases there was a considerable divergence between the times given by the different wires; passing clouds frequently prevented even three consecutive wires from being observed. With highly trained observers it is probable that better results would have been obtained by using the R. A. micrometer and observing a number of transits over the middle wire, but with the observers available for the work here this would have only led to increased errors, for it was found necessary even to give up the use of the P. D. micrometer. So long as the work was simple and purely routine good results were obtained, but the least complexity or interference with the routine was fatal.

It has not been considered necessary to print all the corrections that have been made. In most cases corrections have been entered in the *errata* only when they affected the mean place of the star for any year by more than $0\cdot02$, but all corrections affecting the separate results to the extent of $0\cdot01$ have been entered in the working copies and will be taken into account in forming the catalogue places.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 1	R	- 4.6	0.0	+ 0.25	+ 0.32	+ 0.03	+ 0.33	35 and 117 R. P. L.
2	"	- 4.7	0.0	+ 0.27	+ 0.33	+ 0.04	+ 0.27	34, 35 & 100, 118 R. P. L.
3	"	- 4.8	0.0	+ 0.38	+ 0.35	+ 0.03	+ 0.26	34 and 118 R. P. L.
4	"	- 6.8	0.0	+ 0.45	+ 0.33	+ 0.02	+ 0.31	37 and 117 R. P. L.
5	"	- 7.2	0.0	+ 0.45	+ 0.33	+ 0.04	+ 0.33	2 Ursæ Minoris and 117 R. P. L.
8	M	- 5.9	0.0	+ 0.45	+ 0.32	+ 0.03	+ 0.29	37 and 118 R. P. L.
9	"	- 6.8	0.0	+ 0.45	+ 0.32	+ 0.04	+ 0.30	37 and 118 R. P. L.
11	"	- 6.7	0.0	+ 0.57	+ 0.32	+ 0.04	+ 0.30	
12	"	- 7.6	0.0	+ 0.56	+ 0.34	+ 0.04	+ 0.30	37 and 110, 117 R. P. L.
15	"	- 8.0	0.0	+ 0.33	+ 0.34	+ 0.04	+ 0.29	37, 39, 40, and 114, 117 R. P. L.
16	"	- 7.7	0.0	+ 0.32	+ 0.32	+ 0.03	+ 0.25	37, 39, 40, and 110, 114, 117 R. P. L.
17	"	- 7.7	0.0	+ 0.34	+ 0.34	+ 0.04	+ 0.30	37, 39 and 110, 114, 117 R. P. L.
18	"	- 7.5	0.0	+ 0.40	+ 0.32	+ 0.05	+ 0.30	37, 39, 40, 43, and 116, 120 R. P. L.
19	"	- 7.8	0.0	+ 0.43	+ 0.33	+ 0.04	+ 0.31	37, 41, 43 and 117, 118, 120 R. P. L.
20	"	- 7.0	0.0	+ 0.45	+ 0.34	+ 0.04	+ 0.32	37, 39, 43 and 116 R. P. L.
22	"	- 6.8	0.0	+ 0.45	+ 0.35	+ 0.04	+ 0.34	39 and 116 R. P. L.
24	"	- 7.3	0.0	+ 0.46	+ 0.36	+ 0.04	+ 0.32	43, 117 and 118 R. P. L.
25	"	- 6.7	0.0	+ 0.52	+ 0.36	+ 0.04	+ 0.34	39, 43 and 117 R. P. L.
26	"	- 6.9	0.0	+ 0.56	+ 0.34	+ 0.04	+ 0.32	
27	"	- 6.8	0.0	+ 0.56	+ 0.36	+ 0.04	+ 0.30	39 and 116, 120, 133 R.P.L.
29	"	- 7.4	0.0	+ 0.64	+ 0.37	+ 0.04	+ 0.32	
30	"	- 7.5	0.0	+ 0.58	+ 0.37	+ 0.04	+ 0.32	39 and 116, 120, 133 R.P.L.
31	"	- 7.1	0.0	+ 0.49	+ 0.40	+ 0.03	+ 0.30	39 and 120, R. P. L.
Feb. 1	R	- 10.1	0.0	+ 0.55	+ 0.41	+ 0.04	+ 0.30	118 and 133 R. P. L.
2	"	- 8.9	0.0	+ 0.55	+ 0.42	+ 0.04	+ 0.30	118 and 133 R. P. L.
3	"	- 9.0	0.0	+ 0.54	+ 0.42	+ 0.04	+ 0.31	
5	"	- 9.1	0.0	+ 0.69	+ 0.40	+ 0.04	+ 0.31	
6	M	- 9.3	0.0	+ 0.66	+ 0.38	+ 0.04	+ 0.32	
7	"	- 7.7	0.0	+ 0.60	+ 0.39	+ 0.04	+ 0.32	118 and 134 R. P. L.
8	R	- 8.0	0.0	+ 0.53	+ 0.40	+ 0.04	+ 0.33	51 Cephei and 120, 133 R. P. L.
9	"	- 8.2	0.0	+ 0.55	+ 0.39	+ 0.04	+ 0.34	51 Cephei and 120 R. P. L.
10	"	- 9.5	0.0	+ 0.57	+ 0.42	+ 0.02	+ 0.37	51 Cephei and 120, 134 R. P. L.
12	"	- 9.9	0.0	+ 0.55	+ 0.38	+ 0.04	+ 0.35	51 Cephei and 120 R. P. L.
13	"	- 10.0	0.0	+ 0.59	+ 0.39	+ 0.03	+ 0.28	51 Cephei and 134 R. P. L.
14	"	- 9.4	0.0	+ 0.53	+ 0.41	+ 0.04	+ 0.33	51 Cephei and 120, 134 R. P. L.
15	"	- 9.1	0.0	+ 0.55	+ 0.38	+ 0.04	+ 0.32	51 Cephei and 134 R. P. L.
16	"	- 9.5	0.0	+ 0.54	+ 0.39	+ 0.03	+ 0.33	
17	"	- 8.5	0.0	+ 0.54	+ 0.42	+ 0.04	+ 0.44	
19	"	- 9.3	0.0	+ 0.61	+ 0.41	+ 0.03	+ 0.35	51 Cephei and 134 R. P. L.
20	"	- 9.3	0.0	+ 0.63	+ 0.40	+ 0.03	+ 0.37	51 Cephei and 134 R. P. L.
21	"	- 8.6	0.0	+ 0.61	+ 0.38	+ 0.02	+ 0.36	
22	"	- 9.0	0.0	+ 0.62	+ 0.39	+ 0.03	+ 0.35	
23	"	- 8.5	0.0	+ 0.66	+ 0.38	+ 0.04	+ 0.35	
24	"	- 9.5	0.0	+ 0.67	+ 0.37	+ 0.03	+ 0.34	51 Cephei and 134 R. P. L.
26	"	- 9.5	0.0	+ 0.60	+ 0.42	+ 0.04	+ 0.31	
27	"	- 9.3	0.0	+ 0.60	+ 0.43	+ 0.04	+ 0.30	
28	"	- 9.7	0.0	+ 0.65	+ 0.43	+ 0.04	+ 0.29	82 and 134 R. P. L.
Mar. 1	"	- 10.8	0.0	+ 0.66	+ 0.46	+ 0.02	+ 0.30	

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.
		"	"	s	"	s	s	
Apl. 3	M	- 7.6	0.0	+ 0.48	+ 0.56	+ 0.04	+ 0.48	82 R. P. L. and Polaris.
4	"	- 6.2	0.0	+ 0.49	+ 0.58	+ 0.04	+ 0.50	82 R. P. L. and Polaris.
5	"	- 7.0	0.0	+ 0.56	+ 0.59	+ 0.04	+ 0.51	82 R. P. L. and Polaris.
6	"	- 5.9	0.0	+ 0.40	+ 0.59	+ 0.08	+ 0.50	72, 82, R. P. L. & Polaris.
7	"	- 5.8	0.0	+ 0.29	+ 0.60	+ 0.08	+ 0.51	82 R. P. L. and Polaris.
9	"	- 6.8	0.0	+ 0.42	+ 0.58	+ 0.08	+ 0.52	82 R. P. L. and Polaris.
10	"	- 6.0	0.0	+ 0.46	+ 0.53	+ 0.08	+ 0.52	
11	"	- 6.7	0.0	+ 0.49	+ 0.58	+ 0.08	+ 0.52	
12	"	- 6.8	0.0	+ 0.51	+ 0.58	+ 0.08	+ 0.52	
13	"	- 5.9	0.0	+ 0.55	+ 0.53	+ 0.08	+ 0.53	
14	"	- 6.5	0.0	+ 0.49	+ 0.60	+ 0.08	+ 0.53	
16	"	- 5.7	0.0	+ 0.55	+ 0.58	+ 0.08	+ 0.53	82 R. P. L. and Polaris.
17	"	- 6.6	0.0	+ 0.59	+ 0.58	+ 0.08	+ 0.52	82 R. P. L. and Polaris.
18	"	- 5.8	0.0	+ 0.53	+ 0.59	+ 0.08	+ 0.55	
19	"	- 5.7	0.0	+ 0.53	+ 0.61	+ 0.08	+ 0.57	
20	"	- 5.7	0.0	+ 0.57	+ 0.62	+ 0.08	+ 0.60	
21	"	- 4.9	0.0	+ 0.56	+ 0.63	+ 0.04	+ 0.62	82 R. P. L. and Polaris.
23	"	- 6.8	0.0	+ 0.42	+ 0.60	+ 0.08	+ 0.60	
24	"	- 6.7	0.0	+ 0.41	+ 0.62	+ 0.08	+ 0.59	
25	"	- 5.5	0.0	+ 0.49	+ 0.65	+ 0.04	+ 0.59	
26	"	- 5.6	0.0	+ 0.51	+ 0.65	+ 0.02	+ 0.58	
28	"	- 4.8	0.0	+ 0.44	+ 0.66	+ 0.08	+ 0.56	
30	"	- 5.0	0.0	+ 0.37	+ 0.65	+ 0.08	+ 0.55	
May 1	R	- 5.8	- 0.1	+ 0.06	+ 0.70	+ 0.03	+ 0.54	
2	"	- 5.4	- 0.1	- 0.26	+ 0.66	+ 0.03	+ 0.53	
3	"	- 5.5	- 0.1	- 0.23	+ 0.65	+ 0.08	+ 0.52	111 R. P. L. and Polaris.
4	"	- 6.4	- 0.1	- 0.26	+ 0.64	+ 0.03	+ 0.55	
5	"	- 6.3	- 0.1	- 0.26	+ 0.67	+ 0.03	+ 0.57	110, 116 and 26 R. P. L. Polaris.
7	"	- 6.6	- 0.1	- 0.26	+ 0.70	+ 0.03	+ 0.58	116, & 37 R. P. L., Polaris.
8	"	- 6.6	- 0.1	- 0.26	+ 0.66	+ 0.02	+ 0.53	116 R. P. L. and Polaris.
9	"	- 6.5	- 0.1	- 0.23	+ 0.69	+ 0.03	+ 0.56	116 R. P. L. and Polaris.
10	"	- 6.6	- 0.1	- 0.22	+ 0.67	+ 0.02	+ 0.56	
11	"	- 6.6	- 0.1	- 0.21	+ 0.69	+ 0.04	+ 0.57	
12	"	- 5.9	- 0.1	- 0.16	+ 0.71	+ 0.03	+ 0.57	116 R. P. L., ε Urs. Min. and 37 R. P. L.
14	"	- 5.6	- 0.1	- 0.21	+ 0.70	+ 0.04	+ 0.58	
15	"	- 5.4	- 0.1	- 0.19	+ 0.69	+ 0.03	+ 0.59	
18	"	- 5.0	- 0.1	+ 0.01	+ 0.76	+ 0.04	+ 0.61	117, 120, and 39, 40 R.P.L.
19	"	- 5.0	- 0.1	- 0.03	+ 0.71	+ 0.02	+ 0.59	117, 120, and 39, 40 R.P.L.
21	"	- 4.5	- 0.1	- 0.24	+ 0.73	+ 0.03	+ 0.59	
22	"	- 4.7	- 0.1	- 0.22	+ 0.76	+ 0.02	+ 0.58	
23	"	- 4.9	- 0.1	- 0.25	+ 0.73	+ 0.02	+ 0.58	117 and 39, 40 R. P. L.
24	"	- 4.5	- 0.1	- 0.27	+ 0.75	+ 0.02	+ 0.59	
25	"	- 4.8	- 0.1	- 0.24	+ 0.73	+ 0.02	+ 0.61	
28	"	- 4.4	- 0.1	- 0.29	+ 0.77	+ 0.03	+ 0.65	120 and 39 B. P. L.
29	"	- 4.8	- 0.1	- 0.24	+ 0.72	+ 0.01	+ 0.64	
30	"	- 4.8	- 0.1	- 0.13	+ 0.73	+ 0.02	+ 0.62	
31	"	- 5.0	- 0.1	+ 0.01	+ 0.70	+ 0.02	+ 0.61	
June 1	"	- 4.9	+ 0.3	+ 0.04	+ 0.70	+ 0.01	+ 0.60	120 and 41 R. P. L.
2	"	- 5.7	+ 0.3	- 0.01	+ 0.73	+ 0.01	+ 0.59	
7	"	- 4.3	+ 0.3	- 0.20	+ 0.72	+ 0.03	+ 0.57	
8	M	- 4.5	+ 0.1	- 0.23	+ 0.74	+ 0.03	+ 0.60	
9	"	- 5.0	+ 0.1	- 0.27	+ 0.75	+ 0.03	+ 0.62	
11	"	- 4.0	+ 0.1	- 0.29	+ 0.74	+ 0.03	+ 0.67	
14	"	- 3.0	+ 0.1	- 0.19	+ 0.74	+ 0.03	+ 0.75	
15	"	- 4.2	+ 0.1	- 0.14	+ 0.74	+ 0.03	+ 0.77	ε Urs. Min. and 39 R.P.L.

May 1.—Transit clock put forward 1m.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian	Determining Stars.
June 19	M	- 3.7	+ 0.1	- 0.06	+ 0.75	+ 0.03	+ 0.76	
20	"	- 4.4	+ 0.1	- 0.07	+ 0.68	+ 0.05	+ 0.76	
22	"	- 3.9	+ 0.1	- 0.11	+ 0.63	+ 0.03	+ 0.76	
26	"	- 3.3	+ 0.1	- 0.15	+ 0.60	+ 0.03	+ 0.75	
July 3	R	- 4.0	+ 0.1	- 0.27	+ 0.59	+ 0.04	+ 0.74	
4	"	- 3.1	+ 0.1	- 0.26	+ 0.60	+ 0.02	+ 0.73	
17	"	- 2.6	+ 0.1	- 0.38	+ 0.55	+ 0.02	+ 0.71	
18	"	- 1.6	+ 0.1	- 0.49	+ 0.56	+ 0.02	+ 0.71	
20	"	- 1.9	+ 0.1	- 0.43	+ 0.55	+ 0.03	+ 0.70	
24	"	- 2.0	+ 0.1	- 0.36	+ 0.54	+ 0.03	+ 0.70	
28	"	- 0.7	+ 0.1	- 0.36	+ 0.51	+ 0.04	+ 0.69	143, and 53 R. P. L.
30	"	+ 0.5	+ 0.1	- 0.38	+ 0.48	+ 0.02	+ 0.67	
31	"	+ 0.5	+ 0.1	- 0.39	+ 0.47	+ 0.03	+ 0.66	
Aug. 2	"	- 0.4	0.0	- 0.35	+ 0.50	+ 0.02	+ 0.63	
3	"	- 0.2	0.0	- 0.32	+ 0.49	+ 0.02	+ 0.62	
4	"	0.0	0.0	- 0.30	+ 0.46	+ 0.02	+ 0.61	133, 138, and 48 R. P. L.
8	"	- 0.1	0.0	- 0.36	+ 0.49	+ 0.02	+ 0.65	133, 134, and 39, 41 R.P.L.
9	"	- 3.6	0.0	- 0.37	+ 0.46	+ 0.01	+ 0.67	133, 134, and 39 R. P. L.
10	"	- 3.7	0.0	- 0.31	+ 0.46	+ 0.03	+ 0.67	133, and 43 R. P. L.
11	"	- 4.2	0.0	- 0.26	+ 0.46	+ 0.03	+ 0.67	118, 133, 134, & 41, 53 R.P.L.
13	"	- 4.9	0.0	- 0.21	+ 0.49	+ 0.03	+ 0.68	118, 133, 134, & 41, 48, 53 R. P. L.
14	"	- 5.0	0.0	- 0.23	+ 0.48	+ 0.03	+ 0.60	3 Urs. Min., 118, and 41, 48 R. P. L.
16	"	- 4.8	0.0	- 0.30	+ 0.49	+ 0.03	+ 0.69	118, 133 and 41, 43 R. P. L.
18	"	- 4.5	0.0	- 0.30	+ 0.48	+ 0.03	+ 0.67	118 and 41, 43 R. P. L.
25	"	- 4.9	0.0	- 0.41	+ 0.43	+ 0.03	+ 0.70	120 and 43 R. P. L.
28	"	- 4.6	0.0	- 0.41	+ 0.44	+ 0.03	+ 0.70	
Sep. 3	M	- 5.4	0.0	- 0.22	+ 0.44	+ 0.02	+ 0.70	
4	"	- 4.7	0.0	- 0.28	+ 0.39	+ 0.02	+ 0.70	133, 138, 149 & 48 R. P. L.
5	"	- 4.8	0.0	- 0.36	+ 0.44	+ 0.02	+ 0.71	
10	"	- 6.4	0.0	- 0.36	+ 0.40	+ 0.02	+ 0.76	
11	"	- 4.4	0.0	- 0.34	+ 0.41	+ 0.02	+ 0.77	
12	"	- 4.6	0.0	- 0.31	+ 0.38	+ 0.02	+ 0.78	
13	"	- 4.5	0.0	- 0.32	+ 0.38	+ 0.02	+ 0.79	
14	"	- 4.8	0.0	- 0.25	+ 0.37	+ 0.02	+ 0.80	134, 138, 149 and 48, 55, 62 R. P. L.
15	"	- 4.7	0.0	- 0.23	+ 0.37	+ 0.03	+ 0.82	138 and 62 R. P. L.
17	"	- 5.3	0.0	- 0.24	+ 0.34	+ 0.02	+ 0.84	
19	"	- 5.2	0.0	- 0.31	+ 0.34	+ 0.02	+ 0.87	
20	"	- 5.1	0.0	- 0.34	+ 0.38	+ 0.03	+ 0.88	
21	"	- 4.8	0.0	- 0.26	+ 0.35	+ 0.03	+ 0.89	
22	"	- 4.4	0.0	- 0.20	+ 0.34	+ 0.03	+ 0.91	
24	"	- 3.4	0.0	- 0.30	+ 0.34	+ 0.03	+ 0.93	
25	"	- 4.1	0.0	- 0.25	+ 0.33	+ 0.03	+ 0.94	
26	"	- 3.6	0.0	- 0.23	+ 0.32	+ 0.03	+ 0.96	
27	"	- 3.4	0.0	- 0.30	+ 0.33	+ 0.03	+ 0.97	
28	"	- 3.1	0.0	- 0.26	+ 0.32	+ 0.03	+ 0.98	134, 138 and 60 R. P. L.
29	"	- 3.6	0.0	- 0.23	+ 0.31	+ 0.03	+ 0.96	
Oct. 1	R	- 2.9	0.0	- 0.29	+ 0.29	+ 0.04	+ 0.92	
3	"	- 4.7	0.0	- 0.30	+ 0.28	+ 0.04	+ 0.88	
4	"	- 4.4	0.0	- 0.32	+ 0.25	+ 0.04	+ 0.86	
5	"	- 2.9	0.0	- 0.34	+ 0.29	+ 0.05	+ 0.84	
6	"	- 1.6	0.0	- 0.35	+ 0.23	+ 0.03	+ 0.82	
8	"	- 0.2	0.0	- 0.05	+ 0.22	+ 0.06	+ 0.77	

Oct. 6.—Line of transit clock broken : clock stopped and restarted.

INTRODUCTION.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
		"	"	s	s	s	s	
Oct. 9	R	- 0.9	0.0	+ 0.23	+ 0.22	+ 0.05	+ 0.75	
10	"	- 0.1	0.0	+ 0.22	+ 0.25	+ 0.05	+ 0.73	
11	"	- 0.8	0.0	+ 0.63	+ 0.25	+ 0.06	+ 0.71	
13	"	+ 0.7	0.0	+ 0.69	+ 0.26	+ 0.04	+ 0.67	
17	"	- 4.8	0.0	+ 0.89	- 0.04	+ 0.04	+ 0.59	
18	"	+ 4.8	0.0	+ 0.96	+ 0.03	+ 0.03	+ 0.57	158 and 55 R. P. L.
19	"	+ 5.7	0.0	- 0.98	+ 0.10	+ 0.04	+ 0.56	158 and 82 R. P. L.
20	M	+ 5.3	0.0	+ 0.92	+ 0.12	+ 0.03	+ 0.56	
22	R	+ 4.8	0.0	+ 0.65	+ 0.17	+ 0.04	+ 0.56	158 and 55 R. P. L.
23	"	+ 4.8	0.0	+ 0.56	+ 0.22	+ 0.03	+ 0.58	158 and 82 R. P. L.
24	"	+ 4.2	0.0	+ 0.58	+ 0.28	+ 0.02	+ 0.59	158 and 53 R. P. L.
25	"	+ 5.1	0.0	+ 0.61	+ 0.29	+ 0.01	+ 0.60	158 and 53, 82 R. P. L.
Nov. 5	M	+ 6.0	0.0	+ 0.63	+ 0.42	+ 0.03	+ 0.55	
6	R	+ 5.4	0.0	+ 0.62	+ 0.43	+ 0.03	+ 0.54	
7	M	+ 5.6	0.0	+ 0.53	+ 0.43	+ 0.03	+ 0.54	
9	"	+ 3.8	0.0	+ 0.53	+ 0.40	+ 0.03	+ 0.53	158 and 82, 98 R. P. L.
10	"	+ 4.9	0.0	+ 0.52	+ 0.38	+ 0.03	+ 0.53	
12	"	+ 3.8	0.0	+ 0.41	+ 0.37	+ 0.03	+ 0.54	10, 158 and 82, 97, 100 R. P. L.
13	"	+ 3.3	0.0	+ 0.32	+ 0.37	+ 0.03	+ 0.60	10, 158 and 87, 100 R. P. L.
14	"	+ 2.4	0.0	+ 0.29	+ 0.35	+ 0.03	+ 0.65	158 and 87 R. P. L.
15	"	+ 1.9	0.0	+ 0.34	+ 0.34	+ 0.02	+ 0.64	
16	"	+ 2.2	0.0	+ 0.36	+ 0.35	+ 0.03	+ 0.64	
20	"	+ 1.3	0.0	+ 0.33	+ 0.33	+ 0.03	+ 0.62	
21	"	+ 2.3	0.0	+ 0.45	+ 0.34	+ 0.03	+ 0.61	α Pegasi and 87 R. P. L.
23	"	+ 3.1	0.0	+ 0.41	+ 0.34	+ 0.03	+ 0.60	
26	"	+ 2.1	0.0	+ 0.50	+ 0.32	+ 0.03	+ 0.60	
27	"	+ 0.6	0.0	+ 0.39	+ 0.32	+ 0.02	+ 0.59	
29	"	- 1.2	0.0	+ 0.28	+ 0.33	+ 0.03	+ 0.59	
30	"	+ 0.3	0.0	+ 0.36	+ 0.33	+ 0.03	+ 0.59	
Dec. 4	R	- 0.6	0.0	+ 0.33	+ 0.36	+ 0.04	+ 0.58	
5	"	- 0.6	0.0	+ 0.30	+ 0.36	+ 0.04	+ 0.57	
6	"	- 0.6	0.0	+ 0.28	+ 0.36	+ 0.04	+ 0.57	158 and 87, 97 R. P. L.
7	"	- 2.0	0.0	+ 0.33	+ 0.35	+ 0.04	+ 0.61	
9	"	- 2.7	0.0	+ 0.35	+ 0.33	+ 0.03	+ 0.60	33 and 97 R. P. L.
11	"	- 1.4	0.0	+ 0.40	+ 0.35	+ 0.02	+ 0.57	
17	"	+ 3.3	0.0	+ 0.41	+ 0.72	+ 0.05	+ 0.50	
18	"	+ 3.9	0.0	+ 0.39	+ 0.74	+ 0.05	+ 0.49	
19	"	+ 4.4	0.0	+ 0.39	+ 0.75	+ 0.03	+ 0.48	
20	"	+ 4.1	0.0	+ 0.44	+ 0.78	+ 0.04	+ 0.47	33 and 99, 100 R. P. L.
22	"	+ 4.0	0.0	+ 0.49	+ 0.59	+ 0.04	+ 0.44	33 and 99 R. P. L.
25	"	+ 3.4	0.0	+ 0.50	+ 0.57	+ 0.04	+ 0.45	
26	"	+ 3.1	0.0	+ 0.56	+ 0.52	+ 0.04	+ 0.45	
27	"	+ 3.3	0.0	+ 0.53	+ 0.49	+ 0.05	+ 0.45	
28	"	+ 3.2	0.0	+ 0.41	+ 0.45	+ 0.04	+ 0.45	
29	"	+ 3.2	0.0	+ 0.38	+ 0.43	+ 0.04	+ 0.45	18, 34 and 100, 108 R. P. L.
31	M	+ 1.8	0.0	+ 0.38	+ 0.44	+ 0.03	+ 0.47	14, 26, 34 and 98 R. P. L.

Oct. 11.—New line put in clock.

Instrumental Corrections adopted in 1884.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 1	M	+ 1.6	0.0	+ 0.34	+ 0.45	+ 0.04	+ 0.38	β Ceti & 2 Ursa Minoris.
2	"	+ 0.8	0.0	+ 0.37	+ 0.47	+ 0.04	+ 0.38	
3	"	+ 0.9	0.0	+ 0.42	+ 0.46	+ 0.03	+ 0.38	
5	"	+ 0.7	0.0	+ 0.42	+ 0.47	+ 0.03	+ 0.38	
7	"	+ 0.7	0.0	+ 0.37	+ 0.50	+ 0.03	+ 0.38	
8	"	+ 0.2	0.0	+ 0.37	+ 0.47	+ 0.03	+ 0.38	111, 116 R. P. L., & Polaris.
9	"	+ 0.2	0.0	+ 0.40	+ 0.46	+ 0.03	+ 0.34	111 R. P. L. & Polaris, 35, 40, R. P. L.
10	"	- 0.2	0.0	+ 0.40	+ 0.44	+ 0.04	+ 0.33	
21	"	- 1.4	0.0	+ 0.43	+ 0.50	+ 0.03	+ 0.27	δ Urs. Min. & 35, 40, 43 R. P. L., 51 Cephei.
22	"	- 2.0	0.0	+ 0.33	+ 0.51	+ 0.04	+ 0.36	δ Urs. Min. & 35, 40 R.P.L.
23	"	- 2.1	0.0	+ 0.33	+ 0.51	+ 0.04	+ 0.36	δ Urs. Min. & 41 R. P. L., 51 Cephei.
24	"	- 2.0	0.0	+ 0.31	+ 0.50	+ 0.03	+ 0.33	δ Urs. Min. and 51 Cephei.
28	"	- 1.9	0.0	+ 0.37	+ 0.50	+ 0.03	+ 0.32	δ Urs. Min. & 51 Cephei.
30	"	- 2.3	0.0	+ 0.45	+ 0.46	+ 0.04	+ 0.29	δ Urs. Min. and 49 R. P. L.
31	"	- 3.2	0.0	+ 0.47	+ 0.44	+ 0.03	+ 0.30	δ Urs. Min., 24 Urs. Min. & 49 R. P. L.
Feb. 2	R	- 3.3	0.0	+ 0.35	+ 0.45	+ 0.04	+ 0.26	δ Urs. Min., 24 Urs. Min. & 60 R. P. L.
5	"	- 3.5	0.0	+ 0.36	+ 0.43	+ 0.04	+ 0.36	δ Urs. Min. & 60 R. P. L.
7	"	- 5.3	0.0	+ 0.42	+ 0.41	+ 0.02	+ 0.23	24 Urs. Min. & 70 R.P.L.
9	"	- 5.3	0.0	+ 0.41	+ 0.43	+ 0.02	+ 0.26	λ Urs. Min. & 70 R.P.L.
13	"	- 5.9	0.0	+ 0.42	+ 0.49	+ 0.04	+ 0.29	λ Urs. Min. & 70 R. P. L.
16	"	- 5.9	0.0	+ 0.39	+ 0.59	+ 0.03	+ 0.28	λ Urs. Min. & 70 R. P. L.
19	"	- 6.9	0.0	+ 0.32	+ 0.56	+ 0.04	+ 0.24	
22	"	- 7.0	0.0	+ 0.33	+ 0.52	+ 0.02	+ 0.21	
26	"	- 7.0	0.0	+ 0.37	+ 0.56	+ 0.04	+ 0.17	ζ Argus & 70 R. P. L.
29	"	- 7.7	0.0	+ 0.43	+ 0.50	+ 0.02	+ 0.15	
Apl. 16	"	- 7.0	0.0	+ 0.40	+ 0.75	+ 0.04	+ 0.34	153 and 70, 80 R. P. L.
17	"	- 7.6	0.0	+ 0.34	+ 0.76	+ 0.04	+ 0.24	14 & 72, 80, 92, 99 R. P. L.
18	"	- 7.4	0.0	+ 0.40	+ 0.75	+ 0.03	+ 0.24	155 & 72, 80, 99 R.P.L.
19	"	- 7.4	0.0	+ 0.38	+ 0.76	+ 0.04	+ 0.27	155 & 89 R. P. L.
21	"	- 8.4	0.0	+ 0.39	+ 0.78	+ 0.03	+ 0.23	155 & 72 R. P. L.
22	"	- 7.5	0.0	+ 0.43	+ 0.73	+ 0.02	+ 0.19	Polaris & 72, 93 R. P. L.
23	"	- 8.5	0.0	+ 0.43	+ 0.72	+ 0.02	+ 0.22	
24	"	- 8.9	0.0	+ 0.40	+ 0.72	+ 0.02	+ 0.24	10 R. P. L., Polaris & 93 R. P. L.
25	"	- 8.4	0.0	+ 0.50	+ 0.74	+ 0.04	+ 0.24	Polaris & 97 R. P. L.
26	"	- 8.5	0.0	+ 0.45	+ 0.73	+ 0.01	+ 0.23	
28	"	- 7.1	0.0	+ 0.51	+ 0.75	+ 0.04	+ 0.20	158 & 103 R. P. L.
29	"	- 7.8	0.0	+ 0.51	+ 0.74	+ 0.02	+ 0.20	
30	"	- 7.5	0.0	+ 0.54	+ 0.73	+ 0.03	+ 0.21	
May 1	M	- 7.0	0.0	+ 0.58	+ 0.75	+ 0.04	+ 0.21	
2	"	- 6.3	0.0	+ 0.56	+ 0.75	+ 0.03	+ 0.21	
June 20	M	- 7.0	0.0	+ 0.63	+ 0.79	+ 0.03	+ 0.37	34 & 115 R. P. L.
21	"	- 5.7	0.0	+ 0.61	+ 0.78	+ 0.04	+ 0.46	33, 43 & 108, 120 R. P. L.
23	R	- 5.6	0.0	+ 0.57	+ 0.77	+ 0.04	+ 0.42	
24	"	- 5.7	0.0	+ 0.46	+ 0.79	+ 0.03	+ 0.41	34 & 111, 116 R. P. L.
25	"	- 5.2	0.0	+ 0.42	+ 0.82	+ 0.03	+ 0.42	
26	"	- 6.9	0.0	+ 0.54	+ 0.79	+ 0.02	+ 0.44	
28	"	- 5.6	0.0	+ 0.55	+ 0.80	+ 0.03	+ 0.35	34 & 108, 111 R. P. L.
July 14	M	- 4.9	0.0	- 0.34	+ 0.78	+ 0.03	+ 0.48	37 & 111, 114, 118 R.P.L.
17	"	- 5.1	0.0	- 0.17	+ 0.79	+ 0.03	+ 0.42	34 & 111, 114 R. P. L.
18	"	- 5.5	0.0	- 0.17	+ 0.81	+ 0.04	+ 0.52	43 & 111, 120 R. P. L.

Instrumental Corrections adopted in 1884.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
July 19	"	- 5.1	0.0	- 0.21	+ 0.80	+ 0.08	+ 0.52	
22	"	- 5.2	0.0	- 0.20	+ 0.80	+ 0.04	+ 0.53	
23	"	- 5.5	0.0	- 0.17	+ 0.80	+ 0.08	+ 0.54	
24	"	- 5.3	0.0	- 0.15	+ 0.78	+ 0.08	+ 0.54	
25	"	- 4.9	0.0	- 0.09	+ 0.77	+ 0.04	+ 0.54	
26	"	- 6.1	0.0	- 0.06	+ 0.77	+ 0.04	+ 0.55	
Aug. 2	R	- 4.6	0.0	- 0.08	+ 0.72	+ 0.04	+ 0.57	
4	"	- 5.0	0.0	- 0.11	+ 0.74	+ 0.04	+ 0.58	
5	"	- 4.4	0.0	- 0.15	+ 0.75	+ 0.04	+ 0.58	λ Sagittarii & 24 Urs. Min
7	"	- 4.9	0.0	- 0.21	+ 0.75	+ 0.02	+ 0.65	51 Cephei & 143 R. P. L.
8	"	- 4.6	0.0	- 0.22	+ 0.76	+ 0.03	+ 0.66	
11	"	- 4.6	0.0	- 0.18	+ 0.75	+ 0.02	+ 0.65	
12	"	- 5.0	0.0	- 0.20	+ 0.75	+ 0.03	+ 0.68	
13	"	- 4.2	0.0	- 0.13	+ 0.75	+ 0.04	+ 0.69	51 Cephei 131 R. P. L.
14	"	- 4.7	0.0	- 0.17	+ 0.72	+ 0.02	+ 0.68	
15	"	- 5.1	0.0	- 0.10	+ 0.71	+ 0.04	+ 0.67	
16	"	- 3.9	0.0	0.00	+ 0.73	+ 0.04	+ 0.67	
18	"	- 4.5	0.0	- 0.22	+ 0.73	+ 0.03	+ 0.65	49 R.P.L. & 24 Urs. Min.
19	"	- 4.6	0.0	- 0.25	+ 0.75	+ 0.02	+ 0.61	51 Cephei & 24 Urs. Min.
20	"	- 4.5	0.0	- 0.33	+ 0.74	+ 0.03	+ 0.68	51 Cephei & 24 Urs. Min., 143 R. P. L.
21	"	- 4.4	0.0	- 0.30	+ 0.74	+ 0.03	+ 0.69	θ Capricorni & 24 Urs. Min.
23	"	- 4.3	0.0	- 0.30	+ 0.75	+ 0.04	+ 0.68	
25	"	- 3.0	0.0	- 0.29	+ 0.75	+ 0.03	+ 0.69	
26	"	- 4.3	0.0	- 0.29	+ 0.73	+ 0.03	+ 0.70	
28	"	- 3.1	0.0	- 0.34	+ 0.75	+ 0.02	+ 0.71	
Sep. 1	"	- 4.7	- 0.1	- 0.35	+ 0.73	+ 0.04	+ 0.72	
8	"	- 4.1	- 0.1	- 0.34	+ 0.68	+ 0.03	+ 0.76	
10	"	- 4.1	- 0.1	- 0.32	+ 0.66	+ 0.03	+ 0.78	48, 53, 60 & 131, 143 R.P.L.
11	"	- 3.9	- 0.1	- 0.30	+ 0.64	+ 0.03	+ 0.76	48 & 24 Urs. Min., 131 R. P. L.
13	"	- 3.4	- 0.1	- 0.34	+ 0.63	+ 0.03	+ 0.70	45 R. P. L. & 24 Urs. Min., 131 R. P. L.
16	M	- 4.4	- 0.1	- 0.37	+ 0.60	+ 0.03	+ 0.65	45 R. P. L. & 24 Urs. Min., 131 R. P. L.
24	M	- 1.0	- 0.1	- 0.39	+ 0.55	+ 0.03	+ 0.63	48, 53, 60, 70, 72 R. P. L. & 24 Ursæ Minoris, 131 R. P. L.
25	"	- 1.1	- 0.1	- 0.34	+ 0.55	+ 0.03	+ 0.69	β Aquarii & λ Urs. Minoris.
26	"	- 1.3	- 0.1	- 0.36	+ 0.55	+ 0.03	+ 0.67	
Oct. 1	"	- 1.3	- 0.1	- 0.41	+ 0.53	+ 0.04	+ 0.58	62, 69, 72; 79 & 150 R.P.L.
2	"	- 0.9	- 0.1	- 0.38	+ 0.52	+ 0.03	+ 0.55	55, 79, & 151 R. P. L.
3	"	- 1.2	- 0.1	- 0.37	+ 0.52	+ 0.04	+ 0.58	45, 55, 60 & 62 R. P. L., 24 Cephei 151 R. P. L.
4	"	- 1.7	- 0.1	- 0.34	+ 0.52	+ 0.03	+ 0.57	48, 62, 79 & 153 R. P. L.
6	"	- 1.4	- 0.1	- 0.54	+ 0.51	+ 0.03	+ 0.59	45, 69, 79 & 153 R. P. L.
7	"	- 1.2	- 0.1	- 0.54	+ 0.52	+ 0.04	+ 0.63	45 & 153 R.P.L.
8	"	- 2.5	- 0.1	- 0.46	+ 0.50	+ 0.03	+ 0.57	45, 62, 79 & 153 R. P. L.
9	"	- 2.3	- 0.1	- 0.45	+ 0.52	+ 0.04	+ 0.60	45, 79 & 153 R. P. L.
10	"	- 2.0	- 0.1	- 0.43	+ 0.50	+ 0.03	+ 0.59	45, 79 & 153 R. P. L.
11	"	- 2.4	- 0.1	- 0.43	+ 0.49	+ 0.03	+ 0.53	49 R. P. L. & λ Urs. Min.
13	"	- 2.1	- 0.1	- 0.47	+ 0.49	+ 0.04	+ 0.62	49 R. P. L. & λ Urs. Min.
21	"	+ 5.7	- 0.1	- 0.52	+ 0.15	+ 0.03	+ 0.50	
22	"	+ 6.4	- 0.1	- 0.51	+ 0.13	+ 0.03	+ 0.48	
27	"	+ 7.8	- 0.1	- 0.69	+ 0.26	+ 0.03	+ 0.50	ϵ Aquarii & 153 R. P. L.

Instrumental Corrections adopted in 1884.

Date.	Obs- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
28	"	+ 7.3	- 0.1	- 0.72	+ 0.27	+ 0.04	+ 0.50	87, 92, 97 & 10 R.P.L.
Nov. 12	R	+ 6.2	+ 0.1	- 0.89	+ 1.01	+ 0.03	+ 0.53	
14	"	+ 7.6	+ 0.1	- 1.01	+ 1.10	+ 0.03	+ 0.54	
15	"	+ 7.6	+ 0.1	- 0.96	+ 1.03	+ 0.02	+ 0.54	
17	"	+ 7.7	+ 0.1	- 0.94	+ 0.97	+ 0.04	+ 0.55	
18	"	+ 8.3	+ 0.1	- 1.03	+ 0.98	+ 0.03	+ 0.55	93, 10, & 18 R. P. L.
22	"	+ 7.6	+ 0.1	- 0.98	+ 0.94	+ 0.03	+ 0.55	
26	"	+ 8.4	+ 0.1	- 0.92	+ 0.93	+ 0.02	+ 0.55	87, 92 & 10 R.P.L., Polaris. 87, 103 R. P. L. & 2993
29	"	+ 9.1	+ 0.1	- 0.93	+ 0.95	+ 0.03	+ 0.52	
Dec. 1	"	+ 8.3	0.0	- 1.04	+ 0.94	+ 0.05	+ 0.57	Radcliffe & 10 R. P. L. 87, 103 R. P. L. & 2 Ursæ Minoris.
3	M	+ 8.4	0.0	- 1.07	+ 0.91	+ 0.04	+ 0.50	100, 103 & 10 R. P. L.
4	"	+ 8.5	0.0	- 1.04	+ 0.89	+ 0.04	+ 0.49	100, 103 & 10 R. P. L.
11	"	+ 6.8	0.0	- 0.99	+ 0.78	+ 0.04	+ 0.43	100, 103 & 10 R. P. L.
12	"	+ 6.3	0.0	- 1.10	+ 0.76	+ 0.04	+ 0.46	100, & 10 R. P. L.
23	R	+ 12.6	0.0	- 1.03	+ 1.17	+ 0.03	+ 0.47	100, & 10 R. P. L.
24	"	+ 13.9	0.0	- 1.02	+ 1.32	+ 0.03	+ 0.52	
26	"	+ 13.3	0.0	- 0.97	+ 1.32	+ 0.02	+ 0.54	101 & 10 R. P. L.
27	"	+ 13.6	0.0	- 0.99	+ 1.32	+ 0.02	+ 0.55	101 & 10 R. P. L.
29	M	+ 13.8	0.0	- 1.00	+ 1.35	+ 0.03	+ 0.45	103 & 10 R. P. L.
30	"	+ 12.0	0.0	- 0.89	+ 1.34	+ 0.04	+ 0.56	
31	"	+ 11.8	0.0	- 0.80	+ 1.33	+ 0.04	+ 0.45	103 & 10 R. P. L.

Instrumental Corrections adopted in 1885.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 1	M	+ 10.6	- 0.5	+ 0.22	+ 1.32	+ 0.03	+ 0.42	10 and 110 R. P. L.
2	"	+ 12.0	- 0.5	+ 0.24	+ 1.31	+ 0.03	+ 0.41	
5	R	+ 11.0	- 0.5	+ 0.20	+ 1.16	+ 0.02	+ 0.39	
8	"	+ 9.9	- 0.5	+ 0.01	+ 1.06	+ 0.03	+ 0.36	37 and 110 R. P. L.
10	"	+ 9.1	- 0.5	- 0.02	+ 1.02	+ 0.03	+ 0.35	
14	"	+ 8.4	- 0.5	+ 0.09	+ 0.90	+ 0.04	+ 0.34	37 and 110 R. P. L.
17	"	+ 6.8	- 0.5	+ 0.12	+ 0.87	+ 0.05	+ 0.35	37 and 110 R. P. L.
20	"	+ 6.0	- 0.5	+ 0.15	+ 0.84	+ 0.02	+ 0.30	37 and 110 R. P. L.
23	"	+ 5.8	- 0.5	+ 0.13	+ 0.81	+ 0.03	+ 0.26	37 R. P. L. and μ Eridani.
26	"	+ 4.2	- 0.5	+ 0.14	+ 0.74	+ 0.03	+ 0.32	37 R. P. L. and δ Urs. Min.
29	"	+ 3.7	- 0.5	+ 0.17	+ 0.78	+ 0.04	+ 0.32	37 R. P. L. and δ Urs. Min.
31	"	+ 4.2	- 0.5	+ 0.15	+ 0.77	+ 0.02	+ 0.30	
Feb. 3	M	+ 1.3	+ 0.3	+ 0.11	+ 0.82	+ 0.03	+ 0.26	
6	"	+ 0.5	+ 0.3	+ 0.15	+ 0.80	+ 0.03	+ 0.23	37 R. P. L. and δ Urs. Min.
9	"	- 0.8	+ 0.3	+ 0.12	+ 0.80	+ 0.03	+ 0.20	
10	"	- 1.3	+ 0.3	+ 0.14	+ 0.78	+ 0.02	+ 0.19	37 R. P. L. and δ Urs. Min.
11	"	- 1.2	+ 0.3	+ 0.20	+ 0.80	+ 0.03	+ 0.20	
12	"	- 0.6	+ 0.3	+ 0.12	+ 0.81	+ 0.02	+ 0.22	
13	"	- 0.9	+ 0.3	+ 0.12	+ 0.82	+ 0.03	+ 0.23	
14	"	- 1.9	+ 0.3	+ 0.18	+ 0.83	+ 0.02	+ 0.24	37 R. P. L. and δ Urs. Min.
16	"	- 2.0	+ 0.3	+ 0.17	+ 0.80	+ 0.02	+ 0.23	
17	"	- 1.8	+ 0.3	+ 0.19	+ 0.81	+ 0.02	+ 0.22	
18	R	- 1.4	+ 0.3	+ 0.07	+ 0.80	+ 0.03	+ 0.21	
19	M	- 2.1	+ 0.3	+ 0.07	+ 0.82	+ 0.02	+ 0.20	
20	"	- 1.9	+ 0.3	+ 0.18	+ 0.86	+ 0.02	+ 0.20	37 R. P. L. and δ Urs. Min.
23	"	- 2.9	+ 0.3	+ 0.16	+ 0.87	+ 0.03	+ 0.18	
26	"	- 3.0	+ 0.3	+ 0.14	+ 0.84	+ 0.02	+ 0.17	51 Cephei & δ Urs. Min.
28	"	- 3.0	+ 0.3	+ 0.19	+ 0.83	+ 0.02	+ 0.19	
Mar. 3	R	- 3.2	+ 0.1	+ 0.18	+ 0.81	+ 0.04	+ 0.21	51 Cephei & δ Urs. Min.
6	"	- 2.0	+ 0.1	+ 0.13	+ 0.89	+ 0.04	+ 0.24	51 Cephei & δ Urs. Min.
9	"	- 3.3	+ 0.1	+ 0.14	+ 0.83	+ 0.03	+ 0.22	
12	"	- 3.6	+ 0.1	+ 0.15	+ 0.85	+ 0.03	+ 0.20	51 Cephei & δ Urs. Min.
14	"	- 4.0	+ 0.1	+ 0.16	+ 0.84	+ 0.03	+ 0.20	
17	M	- 4.6	+ 0.1	+ 0.12	+ 0.88	+ 0.03	+ 0.19	
20	"	- 4.3	+ 0.1	+ 0.12	+ 0.89	+ 0.03	+ 0.19	51 Cephei & λ Urs. Min.
23	R	- 3.5	+ 0.1	+ 0.17	+ 0.85	+ 0.03	+ 0.19	51 Cephei & λ Urs. Min.
26	"	- 3.3	+ 0.1	+ 0.20	+ 0.87	+ 0.02	+ 0.18	51 Cephei & λ Urs. Min.
28	"	- 3.3	+ 0.1	+ 0.18	+ 0.86	+ 0.02	+ 0.19	51 Cephei & λ Urs. Min.
30	"	- 3.8	+ 0.1	+ 0.13	+ 0.88	+ 0.03	+ 0.21	51 Cephei & λ Urs. Min.
Apl. 1	"	- 3.4	+ 0.3	+ 0.10	+ 0.88	+ 0.03	+ 0.20	51 Cephei & λ Urs. Min.
3	"	- 3.1	+ 0.3	+ 0.06	+ 0.88	+ 0.02	+ 0.19	
8	M	- 3.7	+ 0.3	+ 0.07	+ 0.91	+ 0.02	+ 0.17	
11	"	- 3.6	+ 0.3	+ 0.08	+ 0.96	+ 0.03	+ 0.16	
14	"	- 3.4	+ 0.3	+ 0.08	+ 0.97	+ 0.02	+ 0.15	72 and 155 R. P. L.
17	"	- 3.4	+ 0.3	+ 0.08	+ 0.96	+ 0.02	+ 0.12	72 and 155 R. P. L.
Apl. 21	M	- 3.8	+ 0.3	+ 0.09	+ 0.96	+ 0.02	+ 0.14	72 and 155 R. P. L.
24	"	- 3.5	+ 0.3	+ 0.10	+ 0.96	+ 0.03	+ 0.13	72 and 155 R. P. L.
28	"	- 3.3	+ 0.3	+ 0.13	+ 0.97	+ 0.02	+ 0.11	72 and 155 R. P. L.
May 1	R	- 3.1	- 0.1	+ 0.11	+ 0.98	+ 0.03	+ 0.13	72 and 155 R. P. L.
5	"	- 3.5	- 0.1	+ 0.08	+ 1.02	+ 0.03	+ 0.16	
7	"	- 3.0	- 0.1	+ 0.08	+ 1.03	+ 0.02	+ 0.18	
9	"	- 3.2	- 0.1	+ 0.10	+ 1.03	+ 0.03	+ 0.19	72 and 155 R. P. L.
11	"	- 3.5	- 0.1	+ 0.08	+ 1.05	+ 0.02	+ 0.22	
13	"	- 2.9	- 0.1	+ 0.07	+ 1.12	+ 0.04	+ 0.25	72 and 155 R. P. L.

Instrumental Corrections adopted in 1885.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
		"	"	s	s	s	s	
May 15	R	- 2.8	- 0.1	+ 0.07	+ 1.11	+ 0.03	+ 0.25	
18	"	- 3.0	- 0.1	+ 0.04	+ 1.13	+ 0.03	+ 0.25	
20	"	- 3.1	- 0.1	+ 0.02	+ 1.12	+ 0.02	+ 0.25	
22	"	- 2.8	- 0.1	+ 0.03	+ 1.12	+ 0.03	+ 0.25	92 and 155 R. P. L.
25	"	- 3.4	- 0.1	+ 0.04	+ 1.10	+ 0.03	+ 0.24	92 and 155 R. P. L.
28	"	- 2.4	- 0.1	0.00	+ 1.12	+ 0.03	+ 0.23	
30	"	- 3.2	- 0.1	- 0.01	+ 1.11	+ 0.01	+ 0.23	
June 2	M	- 1.3	+ 0.2	- 0.05	+ 1.16	+ 0.03	+ 0.22	
5	"	- 2.7	+ 0.2	- 0.08	+ 1.11	+ 0.02	+ 0.21	
Aug. 5	R	- 2.8	0.0	+ 0.13	+ 1.11	+ 0.04	+ 0.46	
7	"	- 3.2	0.0	+ 0.12	+ 1.17	+ 0.02	+ 0.47	51 Cephei & 72 Ophiuchi.
15	"	- 2.2	0.0	+ 0.11	+ 1.15	+ 0.06	+ 0.50	
17	"	- 3.5	0.0	+ 0.04	+ 1.11	+ 0.02	+ 0.51	51 Cephei & δ Urs. Min.
20	"	- 2.4	0.0	- 0.02	+ 1.08	+ 0.02	+ 0.51	
Sep. 7	"	- 2.1	+ 0.2	+ 0.18	+ 1.04	+ 0.03	+ 0.53	51 Cephei & δ Urs. Min.
12	"	- 2.8	+ 0.2	+ 0.15	+ 1.06	+ 0.02	+ 0.54	
15	"	- 2.4	+ 0.2	+ 0.07	+ 1.00	+ 0.02	+ 0.54	
18	"	- 2.1	+ 0.2	- 0.01	+ 0.95	+ 0.03	+ 0.55	
25	"	+ 0.5	+ 0.2	- 0.11	+ 0.92	+ 0.02	+ 0.55	72 R. P. L. & λ Urs. Min.
29	"	- 0.3	+ 0.2	- 0.21	+ 0.95	+ 0.02	+ 0.57	
Oct. 1	M	+ 0.9	0.0	- 0.22	+ 0.98	+ 0.03	+ 0.57	
3	"	+ 1.6	0.0	- 0.17	+ 0.95	+ 0.03	+ 0.57	
5	"	+ 0.7	0.0	- 0.13	+ 0.94	+ 0.03	+ 0.58	
7	"	+ 0.3	0.0	- 0.13	+ 0.93	+ 0.03	+ 0.58	72 and 155 R. P. L.
9	"	+ 2.6	0.0	- 0.37	+ 0.90	+ 0.02	+ 0.55	
14	"	+ 2.9	0.0	- 0.48	+ 0.86	+ 0.03	+ 0.47	72 R. P. L. and λ Aquarii.
16	"	+ 3.1	0.0	- 0.39	+ 0.86	+ 0.03	+ 0.55	
19	"	+ 1.9	0.0	- 0.37	+ 0.89	+ 0.03	+ 0.55	
21	"	+ 2.3	0.0	- 0.37	+ 0.88	+ 0.03	+ 0.55	
23	"	+ 2.8	0.0	- 0.35	+ 0.89	+ 0.03	+ 0.55	
Dec. 28	R	+ 7.0	0.0	- 1.33	+ 0.89	+ 0.03	+ 0.52	

Instrumental Corrections adopted in 1886.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 1	M	+ 5.5	0.0	- 1.30	+ 0.85	+ 0.03	+ 0.49	37 and 110 R. P. L.
7	R	+ 4.6	0.0	- 1.29	+ 0.92	+ 0.08	+ 0.48	
15	"	+ 3.6	0.0	- 1.43	+ 0.84	+ 0.04	+ 0.36	51 Cephei & δ Urs. Min.
19	"	+ 1.9	0.0	- 1.33	+ 0.84	+ 0.04	+ 0.36	
24	"	- 0.2	0.0	- 0.20	- 0.08	+ 0.06	+ 0.35	51 Cephei & δ Urs. Min.
26	"	- 0.2	0.0	+ 0.19	- 0.04	+ 0.28	+ 0.25	
27	"	- 0.2	0.0	+ 0.28	- 0.05	+ 0.40	+ 0.39	
29	"	- 0.2	0.0	+ 0.68	- 0.06	+ 0.62	+ 0.51	37 and 40 R. P. L. 51 Cephei & δ Urs. Min.
30	"	- 0.8	0.0	+ 0.65	+ 0.07	+ 0.02	+ 0.49	37 and 40 R. P. L. 51 Cephei & δ Urs. Min.
Feb. 1	"	- 2.4	- 0.3	+ 0.65	+ 0.11	+ 0.03	+ 0.64	37 and 40 R. P. L., λ Ursæ Minoris.
3	"	+ 0.1	- 0.3	+ 0.70	+ 0.09	+ 0.04	+ 0.69	
6	"	- 2.2	- 0.3	+ 0.70	+ 0.07	+ 0.08	+ 0.76	
13	M	- 7.1	- 0.3	+ 0.85	+ 0.05	+ 0.10	+ 0.53	51 Cephei & λ Urs. Min.
15	"	- 7.7	- 0.3	+ 0.76	+ 0.02	+ 0.07	+ 0.52	51 Cephei & λ Urs. Min.
17	"	- 7.3	- 0.3	+ 0.76	+ 0.03	+ 0.07	+ 0.54	51 Cephei & λ Urs. Min.
20	"	- 7.5	- 0.3	+ 0.84	+ 0.03	+ 0.06	+ 0.53	
22	"	- 7.5	- 0.3	+ 0.89	+ 0.05	+ 0.04	+ 0.49	51 Cephei & λ Urs. Min.
25	"	- 7.4	- 0.3	+ 0.93	+ 0.06	+ 0.05	+ 0.49	
Apr. 2	R	- 7.5	0.0	+ 0.91	+ 0.28	+ 0.07	+ 0.53	72 and 155 R. P. L.
5	"	- 6.4	0.0	+ 0.84	+ 0.30	+ 0.06	+ 0.47	
7	"	- 6.6	0.0	+ 0.91	+ 0.26	+ 0.07	+ 0.43	
9	"	- 7.4	0.0	+ 0.90	+ 0.22	+ 0.05	+ 0.39	72 and 155 R. P. L.
12	"	- 7.0	0.0	+ 0.85	+ 0.23	+ 0.06	+ 0.40	
14	"	- 6.8	0.0	+ 0.86	+ 0.23	+ 0.06	+ 0.41	
16	"	- 7.1	0.0	+ 0.81	+ 0.24	+ 0.05	+ 0.41	
19	"	- 7.2	0.0	+ 0.83	+ 0.28	+ 0.06	+ 0.42	92 and 155 R. P. L.
21	"	- 6.2	0.0	+ 0.81	+ 0.31	+ 0.13	+ 0.42	
24	"	- 6.5	0.0	+ 0.81	+ 0.33	+ 0.13	+ 0.42	
27	"	- 6.6	0.0	+ 0.91	+ 0.33	+ 0.10	+ 0.41	
29	"	- 6.2	0.0	+ 0.95	+ 0.27	+ 0.03	+ 0.41	92 and 155 R. P. L.
May 1	"	- 6.9	0.0	+ 0.92	+ 0.26	+ 0.07	+ 0.42	
4	"	- 7.2	0.0	+ 0.91	+ 0.28	+ 0.07	+ 0.44	
6	"	- 6.1	0.0	+ 0.91	+ 0.29	+ 0.07	+ 0.45	
8	"	- 6.8	0.0	+ 0.92	+ 0.34	+ 0.05	+ 0.46	
10	"	- 5.9	0.0	+ 1.00	+ 0.36	+ 0.04	+ 0.47	92 and 155 R. P. L.
June 7	M	- 0.2	- 0.1	+ 0.75	+ 0.23	+ 0.04	+ 0.49	
11	"	+ 0.8	- 0.1	+ 0.72	+ 0.16	+ 0.05	+ 0.49	Polaris and 92 R. P. L.
13	"	+ 2.0	- 0.1	+ 0.75	+ 0.18	+ 0.07	+ 0.47	
22	"	+ 0.3	- 0.1	+ 0.88	+ 0.14	+ 0.07	+ 0.43	Polaris and ρ Bootis.
25	"	+ 1.3	- 0.1	+ 0.92	+ 0.12	+ 0.07	+ 0.43	
Aug. 4	R	+ 6.6	0.0	+ 0.71	+ 0.06	+ 0.07	+ 0.50	51 Cephei & δ Urs. Min.
Sep. 1	M	- 0.1	0.0	+ 0.47	+ 0.13	+ 0.12	+ 0.46	
4	"	- 1.0	0.0	+ 0.52	+ 0.15	+ 0.11	+ 0.44	51 Cephei & λ Urs. Min.
11	"	- 2.2	0.0	+ 0.62	+ 0.12	+ 0.11	+ 0.49	
15	"	- 2.3	0.0	+ 0.59	+ 0.16	+ 0.12	+ 0.51	
18	"	- 2.3	0.0	+ 0.64	+ 0.18	+ 0.12	+ 0.52	
22	"	- 3.0	0.0	+ 0.71	+ 0.18	+ 0.11	+ 0.54	
25	"	- 1.9	0.0	+ 0.76	+ 0.17	+ 0.11	+ 0.56	51 Cephei & λ Urs. Min.
Dec. 11	R	+ 4.4	0.0	+ 0.15	- 0.06	+ 0.06	+ 0.41	110 R. P. L. and Polaris.
24	"	- 0.3	0.0	+ 0.12	+ 0.01	+ 0.07	+ 0.56	110 R. P. L. and Polaris.
28	M	- 2.4	0.0	+ 0.23	+ 0.03	+ 0.07	+ 0.44	37 and 110 R. P. L.

Instrumental Corrections adopted in 1887.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 7	M	- 4.9	0.0	+ 0.15	+ 0.06	+ 0.09	+ 0.38	110 and 37 R. P. L.
11	"	- 5.4	0.0	+ 0.20	+ 0.07	+ 0.11	+ 0.39	
14	R	- 6.6	0.0	+ 0.22	+ 0.10	+ 0.11	+ 0.40	
18	M	- 6.8	0.0	+ 0.24	+ 0.10	+ 0.12	+ 0.41	
21	"	- 7.0	0.0	+ 0.26	+ 0.10	+ 0.12	+ 0.42	
25	R	- 7.7	0.0	+ 0.26	+ 0.09	+ 0.10	+ 0.44	
28	M	- 8.0	0.0	+ 0.29	+ 0.12	+ 0.11	+ 0.45	♁ Urs. Min. and 37 R. P. L.
Feb. 18	R	- 7.9	0.0	+ 0.41	+ 0.15	+ 0.12	+ 0.40	♁ Urs. Min. and 40 R. P. L.
22	M	- 9.0	0.0	+ 0.43	+ 0.12	+ 0.12	+ 0.39	♁ Urs. Min. and 51 Cephei
25	R	- 8.9	0.0	+ 0.46	+ 0.14	+ 0.12	+ 0.37	
Mar. 1	R	- 9.2	+ 0.2	- 0.05	+ 0.20	+ 0.09	+ 0.38	
4	M	- 9.2	+ 0.2	- 0.15	+ 0.22	+ 0.10	+ 0.38	♁ Urs. Min. and 51 Cephei
Apl. 1	M	- 6.9	- 0.1	- 0.22	+ 0.33	+ 0.12	+ 0.35	λ Urs. Min. and 51 Cephei
8	"	- 7.0	- 0.1	- 0.13	+ 0.36	+ 0.09	+ 0.38	
26	R	- 6.5	- 0.1	- 0.14	+ 0.31	+ 0.07	+ 0.27	155 and 72 R. P. L.
29	M	- 5.2	- 0.1	- 0.10	+ 0.32	+ 0.06	+ 0.29	
May 3	R	- 5.0	0.0	- 0.07	+ 0.37	0.00	+ 0.31	155 and 92 R. P. L.
6	"	- 6.4	0.0	- 0.08	+ 0.36	+ 0.04	+ 0.38	
10	"	- 5.1	0.0	- 0.06	+ 0.37	+ 0.08	+ 0.36	
16	"	- 3.6	0.0	- 0.05	+ 0.43	+ 0.05	+ 0.39	
20	"	- 6.4	0.0	- 0.04	+ 0.44	+ 0.09	+ 0.44	
24	"	- 3.9	0.0	+ 0.01	+ 0.50	+ 0.05	+ 0.50	
27	"	- 4.0	0.0	+ 0.08	+ 0.47	+ 0.04	+ 0.54	
31	"	- 3.1	0.0	+ 0.15	+ 0.41	+ 0.04	+ 0.59	
June 3	M	- 3.6	0.0	+ 0.18	+ 0.43	+ 0.04	+ 0.55	Polaris and 110 R. P. L. Polaris and 110 R. P. L.
7	"	- 3.0	0.0	+ 0.01	+ 0.46	+ 0.04	+ 0.51	
10	"	- 4.8	0.0	- 0.04	+ 0.46	+ 0.04	+ 0.47	
14	"	- 3.1	0.0	+ 0.06	+ 0.41	+ 0.06	+ 0.42	
28	"	- 1.6	0.0	+ 0.12	+ 0.36	+ 0.05	+ 0.71	
July 1	"	- 0.2	0.0	+ 0.05	+ 0.34	+ 0.10	+ 0.67	ζ Ophiuchi and 110 R.P.L. 51 Cephei & ♁ Urs. Min.
12	"	- 1.0	0.0	- 0.47	+ 0.34	+ 0.10	+ 0.51	
22	"	- 0.2	0.0	- 0.19	+ 0.28	+ 0.08	+ 0.36	
29	"	- 0.1	0.0	- 0.08	+ 0.27	+ 0.09	+ 0.61	
Aug. 27	"	+ 4.7	0.0	- 0.78	+ 0.02	+ 0.03	+ 0.51	θ Ophiuchi and ♁ Urs.Min.
Oct. 1	R	+ 6.2	0.0	- 0.24	- 0.02	+ 0.09	+ 0.47	72 and 155 R. P. L.
5	"	+ 5.4	0.0	- 0.46	+ 0.05	+ 0.10	+ 0.47	
10	"	+ 8.0	0.0	- 0.42	+ 0.13	+ 0.10	+ 0.46	
Nov. 3	"	+ 9.5	0.0	- 0.82	+ 0.18	+ 0.11	+ 0.44	92 and 155 R. P. L.
7	"	+ 9.5	0.0	- 0.81	+ 0.19	+ 0.11	+ 0.44	
17	"	+ 10.9	0.0	- 1.06	+ 0.33	+ 0.13	+ 0.43	92 and 155 R. P. L.
21	"	+ 10.5	0.0	- 1.05	+ 0.32	+ 0.14	+ 0.43	
26	"	+ 11.7	0.0	- 1.09	+ 0.26	+ 0.16	+ 0.43	

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

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				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>
ι Ceti	0	14	99 28	7	- 0'06	- 2'7	13	+ 0'04	+ 0'2	...	.....	.....
λ Ceti	0	24	94 36	...	.....	.....	2	+ 0'06	+ 1'1	...	.....	.....
β Ceti... ..	0	38	108 37	...	.....	.....	2	+ 0'05	+ 1'6	...	.....	.....
δ Piscium	0	43	83 3	7	+ 0'04	- 0'7	3	- 0'04	0'0	...	.....	.....
β Andromedæ	1	3	55 0	2	- 0'07	- 1'0	11	- 0'06	+ 0'1	1	0'0	- 0'7
α Urs. Min. (<i>Polaris</i>)..	1	16	1 19	14	+ 0'23	+ 0'3	6	+ 0'62	+ 0'7	...	.....	.....
θ Ceti... ..	1	18	98 47	2	- 0'04	+ 1'1	...	.....	.....	...	.....	.....
η Piscium	1	25	75 15	4	0'00	+ 0'1	1	- 0'12	- 0'7	...	.....	.....
α Eridani (<i>Achernar</i>)..	1	33	147 50	1	+ 0'27	+ 0'9	...	.....	.....	...	.....	.....
ν Piscium	1	35	85 6	1	+ 0'04	- 0'7	...	.....	.....	...	.....	.....
ρ Piscium	1	39	81 26	10	- 0'03	+ 0'8	10	0'00	- 0'8	...	.....	.....
β Arietis	1	43	69 46	13	+ 0'07	- 0'6	...	.....	.....	...	.....	.....
α Arietis	2	1	67 5	17	+ 0'01	+ 0'4	2	- 0'04	+ 0'1	...	.....	.....
δ Ceti	2	11	96 57	3	- 0'04	- 0'1	4	+ 0'05	+ 0'4	...	.....	.....
ξ^3 Ceti	2	22	82 4	1	+ 0'01	- 2'5	...	.....	.....	...	.....	.....
γ^3 Ceti	2	37	87 15	2	0'00	- 1'2	...	.....	.....	...	.....	.....
σ Arietis	2	45	75 24	7	+ 0'03	- 1'1	13	+ 0'02	- 2'2	...	.....	.....
α Ceti	2	56	86 22	7	- 0'04	- 1'0	2	+ 0'07	+ 1'0	...	.....	.....
δ Arietis	3	5	70 43	7	- 0'04	- 1'0	8	- 0'04	+ 0'3	...	.....	.....
α Persei	3	16	40 33	3	- 0'13	- 0'4	...	.....	.....	...	.....	.....
ρ Tauri	3	19	81 23	6	- 0'05	- 1'3	6	- 0'04	- 0'3	8	+ 0'01	- 0'7
ϵ Eridani	3	27	99 51	6	+ 0'07	+ 0'1	...	.....	...	9	- 0'01	- 0'5
η Tauri	3	41	66 15	4	+ 0'03	- 0'7	2	- 0'02	+ 2'1	...	.....	.....
γ^1 Eridani	3	53	103 50	...	.....	.....	6	+ 0'02	+ 0'8	...	.....	.....
Λ Tauri	3	58	68 14	16	+ 0'01	- 0'7	...	.....	.....	9	+ 0'02	- 1'0
ρ^1 Eridani	4	6	97 8	1	+ 0'07	- 2'3	...	.....	.....	...	.....	.....
γ Tauri	4	13	74 39	13	- 0'01	0'0	...	.....	.....	...	.....	.....
ϵ Tauri	4	22	71 5	2	+ 0'05	+ 0'1	3	- 0'06	- 0'1	...	.....	.....
α Tauri (<i>Aldebaran</i>)...	4	29	73 44	8	+ 0'02	- 0'2	3	- 0'08	- 0'4	...	.....	.....
μ Eridani	4	40	93 28	...	.....	.....	...	.....	.....	10	+ 0'02	+ 0'5
ι Aurigæ	4	49	57 1	9	- 0'01	+ 1'6	...	.....	.....	...	.....	.....
α Aurigæ (<i>Capella</i>)...	5	8	44 7	9	- 0'17	- 2'3	...	.....	.....	...	.....	.....
β Orionis (<i>Rigel</i>)	5	9	98 20	8	- 0'02	- 1'1	1	+ 0'05	+ 1'8	...	.....	.....
β Tauri	5	19	61 30	4	- 0'03	- 0'1	1	- 0'10	+ 3'1	...	.....	.....
δ Orionis	5	26	90 23	1	+ 0'11	- 0'7	2	+ 0'05	- 2'5	10	+ 0'02	- 2'0

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

Star.	Approximate Place 1884.			1883.			1884.			1885.		
				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>s.</i>	<i>"</i>	<i>s.</i>	<i>"</i>	<i>s.</i>	<i>"</i>	<i>s.</i>	<i>"</i>	
α Leporis ...	5	28	107 54	2	+ 0·02	+ 0·2	...	...	...	...	...
ε Orionis ...	5	30	91 17	...	...	...	1	+ 0·17	+ 1·5	10	- 0·01 + 1·6
κ Orionis ...	5	42	99 43	4	+ 0·04	+ 1·5	...	...	...	10	- 0·06 + 1·4
α Orionis (<i>Var.</i>) ...	5	49	82 37	...	...	...	9	0·00	+ 0·7	...	...
γ Geminorum ...	6	8	67 28	10	- 0·01	- 1·3	...	...	...	10	+ 0·02 - 1·4
μ Geminorum ...	6	16	67 26	...	...	...	1	- 0·06	+ 1·2	...	...
ξ Geminorum ...	6	30	76 59	10	- 0·01	- 0·9	...	...	...	10	+ 0·01 - 0·3
Cephei 51 (<i>Hev.</i>) ...	6	46	2 47	10	+ 0·18	- 0·7	8	+ 0·23	- 0·6	12	- 0·30 - 1·2	
θ Canis Majoris ...	6	49	101 54	...	...	...	...	...	...	10	- 0·01 - 0·8
ε Canis Majoris ...	6	54	118 49	...	...	...	1	0·00	- 0·7	...	...
γ Canis Majoris ...	6	59	105 28	...	...	...	1	+ 0·06	- 2·4	...	...
β Canis Minoris ...	7	21	81 29	10	+ 0·02	- 1·6	...	...	...	10	+ 0·02 - 1·0
α Can. Min. (<i>Procyon</i>) ...	7	33	84 29	1	...	...	1	+ 0·05	- 1·4	...	...
ξ Argus ...	7	44	114 34	10	+ 0·04	- 1·2	10	- 0·10	+ 1·9	10	- 0·01 + 2·6	
15 Argus ...	8	3	113 58	...	...	...	9	- 0·09	- 0·8	...	...
β Cancri ...	8	10	80 27	...	...	...	...	...	...	10	0·00 - 1·5
η Cancri ...	8	26	69 10	...	...	...	2	+ 0·13	- 1·2	...	...
γ Cancri ...	8	37	68 7	10	- 0·03	+ 1·1	...	...	...	8	- 0·04 0·0
ε Hydræ ...	8	41	83 9	...	...	...	2	+ 0·03	- 1·1	...	...
α Cancri ...	8	52	77 42	...	...	...	1	+ 0·04	- 0·6	6	+ 0·01 - 0·2
κ Cancri ...	9	1	78 52	...	...	...	1	0·00	+ 0·5	...	...
83 Cancri ...	9	13	71 48	...	...	...	2	+ 0·16	- 2·5	...	...
ι Argus ...	9	14	148 47	10	+ 0·02	+ 2·5	...	...	...	...	...
α Hydræ ...	9	22	98 9	...	...	...	2	+ 0·07	- 0·6	...	...
ο Leonis ...	9	35	79 35	...	...	...	...	...	...	4	+ 0·02 + 0·8
ε Leonis ...	9	39	65 42	...	...	...	2	+ 0·22	- 0·2	...	...
α Leonis (<i>Regulus.</i>) ...	10	2	77 28	...	...	...	3	+ 0·03	- 3·2	...	...
γ ¹ Leonis ...	10	14	69 34	...	...	...	3	+ 0·02	- 1·0	...	...
μ Hydræ ...	10	20	106 15	...	...	...	...	...	...	10	- 0·04 - 1·1
ρ Leonis ...	10	27	80 6	...	...	...	1	- 0·04	- 1·8	...	...
ι Leonis ...	10	43	78 50	...	...	...	1	+ 0·02	- 1·9	...	...
δ Leonis ...	10	55	85 46	10	+ 0·02	- 1·0	...	...	...	10	+ 0·03 - 1·1
χ Leonis ...	10	59	82 2	...	...	...	2	+ 0·01	- 1·8	...	...
δ Leonis ...	11	8	68 50	...	...	...	2	+ 0·03	- 0·2	...	...
τ Leonis ...	11	22	86 30	10	+ 0·05	+ 0·7	10	- 0·01	- 0·9	8	+ 0·02 - 0·6	

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

Stars.	Approximate Place 1884.		1883.			1884.			1885.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h. m.</i>	<i>o. /</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
β Leonis	11 43	74 47	...	.....	.....	1	+ 0.07	- 0.8	...	.....	.....
π Virginis	11 55	82 44	10	- 0.05	- 1.1	10	0.00	- 2.2	10	+ 0.02	- 1.8
ϵ Corvi	12 4	111 58	...	.....	.....	1	- 0.15	- 1.7	...	.....	.....
η Virginis	12 14	90 1	...	.....	.....	3	- 0.08	+ 0.7	...	.....	.....
δ^2 Corvi	12 24	105 52	...	.....	.....	...	.....	.....	5	- 0.07	+ 0.7
δ Virginis	12 50	85 58	20	+ 0.02	- 3.2	...	.....	.....	2	+ 0.03	- 2.3
ϵ Virginis	12 56	78 25	30	- 0.01	+ 0.1	10	+ 0.02	- 1.6	...	.....	.....
θ Virginis	13 4	94 55	11	+ 0.01	- 2.0	...	.....	.....	...	.....	.....
α Virginis (<i>Spica</i>) ...	13 19	100 33	...	.....	.....	1	- 0.08	- 1.4	...	.....	.....
ζ Virginis	13 29	90 0	10	+ 0.17	+ 2.4	...	.....	.....	...	.....	.....
τ Bootis	13 42	71 58	10	- 0.03	- 3.2	...	.....	.....	...	.....	.....
η Ursæ Majoris	13 43	40 6	10	- 0.14	- 3.0	...	.....	.....	...	.....	.....
η Bootis	13 49	71 1	10	- 0.13	+ 1.8	1	+ 0.12	- 1.0	...	.....	.....
τ Virginis	13 56	87 54	...	.....	.....	2	+ 0.11	- 2.8	...	.....	.....
α Bootis (<i>Arcturus</i>)...	14 10	70 13	...	.....	.....	3	+ 0.01	- 1.2	...	.....	.....
ρ Bootis	14 27	59 7	...	.....	.....	1	- 0.04	- 2.5	...	.....	.....
ϵ^2 Bootis	14 40	62 26	...	.....	.....	4	- 0.06	- 1.1	...	.....	.....
α Libræ	14 44	105 34	...	.....	.....	3	+ 0.09	- 4.0	...	.....	.....
β Ursæ Minoris	14 51	15 22	5	- 0.06	- 2.0	...	.....	.....	...	.....	.....
β Libræ	15 11	98 57	10	+ 0.05	- 0.5	3	- 0.02	+ 0.2	...	.....	.....
α Coronæ	15 30	62 54	...	.....	.....	7	- 0.05	- 0.4	...	.....	.....
α Serpentis	15 39	83 13	14	+ 0.01	- 0.9	10	+ 0.05	+ 0.3	...	.....	.....
ϵ Serpentis	15 45	85 10	10	0.00	- 1.9	...	.....	.....	...	.....	.....
ζ Ursæ Minoris	15 48	11 51	...	.....	.....	1	- 0.03	- 2.7	...	.....	.....
β^1 Scorpii	15 59	109 29	...	.....	.....	5	+ 0.05	- 0.6	...	.....	.....
δ Ophiuchi	16 8	93 24	...	.....	.....	2	- 0.03	- 0.8	...	.....	.....
γ Herculis	16 17	70 34	10	- 0.02	- 0.7	...	.....	.....	...	.....	.....
α Scorpii (<i>Antares</i>) ...	16 22	116 10	...	.....	.....	2	+ 0.02	+ 0.4	...	.....	.....
ζ Ophiuchi	16 31	100 20	20	+ 0.02	- 0.8	...	.....	.....	...	.....	.....
ζ Herculis	16 37	58 11	...	.....	.....	3	- 0.13	+ 0.8	...	.....	.....
ϵ Ursæ Minoris	16 58	7 46	2	+ 0.11	- 2.9	1	- 0.30	+ 4.9	...	.....	.....
η Ophiuchi	17 4	105 35	20	+ 0.02	+ 0.1	...	.....	.....	5	+ 0.07	- 0.7
α^1 Herculis	17 9	75 29	...	.....	.....	3	+ 0.01	- 1.7	...	.....	.....
σ Ophiuchi	17 21	85 45	10	+ 0.02	+ 0.7	...	.....	.....	...	.....	.....
α Ophiuchi	17 30	77 21	...	.....	.....	1	+ 0.07	+ 1.1	...	.....	.....

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

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
					s	"		s	"		s	"
β Ophiuchi ...	17	38	85 23	20	- 0.03	- 0.6	10	+ 0.01	- 0.9	5	- 0.06	+ 0.1
μ Herculis ...	17	42	62 13	...	.....	.....	4	- 0.02	- 0.4	...	.....	.....
γ Ophiuchi ...	18	2	80 27	...	.....	.....	10	- 0.01	- 1.5	4	- 0.01	- 1.9
μ Sagittarii ...	18	7	111 5	...	.....	.....	1	- 0.05	- 0.4	...	.....	.....
δ Ursæ Minoris ...	18	10	3 23	2	- 1.21	- 1.3	9	+ 0.14	+ 1.4	12	- 0.11	- 0.5
η Serpentis ...	18	15	92 56	20	+ 0.01	+ 1.5	...	.....	.....	1	- 0.01	+ 1.1
λ Sagittarii ...	18	21	115 20	20	+ 0.02	- 2.2	2	+ 0.18	- 2.1	1	- 0.05	- 1.3
α Lyrae (<i>Vega</i>) ...	18	33	51 19	...	.....	.....	6	- 0.14	- 1.8	...	.....	.....
β^1 Lyrae (<i>Var.</i>) ...	18	46	56 46	...	.....	.....	4	- 0.08	+ 0.1	...	.....	.....
ϵ Aquilæ ...	18	54	75 5	20	- 0.01	- 0.9	...	.....	.....	1	+ 0.05	- 1.7
ω Aquilæ ...	19	12	78 37	...	.....	.....	1	+ 0.05	- 0.8	...	.....	.....
δ Aquilæ ...	19	20	87 7	...	.....	.....	2	+ 0.02	- 0.5	...	.....	.....
λ Ursæ Minoris ...	19	40	1 3	...	.....	.....	5	- 0.63	+ 0.2	6	- 0.77	+ 0.6
γ Aquilæ ...	19	41	79 40	...	.....	.....	4	- 0.07	- 1.2	...	.....	.....
α Aquilæ (<i>Altair</i>) ...	19	45	81 26	...	.....	.....	3	+ 0.02	- 1.0	2	- 0.02	- 1.0
β Aquilæ ...	19	50	83 53	...	.....	.....	1	0.00	- 1.1	...	.....	.....
θ Aquilæ ...	20	5	91 10	20	- 0.01	- 0.4	20	+ 0.04	+ 0.2	10	+ 0.03	- 1.1
α^2 Capricorni ...	20	12	102 54	...	.....	.....	2	+ 0.12	- 2.9	...	.....	.....
ϵ Delphini ...	20	28	70 5	25	- 0.02	+ 0.6	10	- 0.03	+ 0.6	10	- 0.02	- 1.2
α Cygni ...	20	37	45 8	...	.....	.....	5	- 0.11	- 2.6	...	.....	.....
ϵ Aquarii ...	20	41	99 55	21	+ 0.02	0.0	10	- 0.06	+ 1.4	10	+ 0.04	- 0.5
β Vulpeculæ ...	20	50	62 23	...	.....	.....	1	- 0.14	+ 2.1	...	.....	.....
θ Capricorni ...	20	59	107 42	20	- 0.01	+ 1.7	1	+ 0.05	- 0.9	6	- 0.06	+ 0.3
δ^1 Cygni ...	21	2	51 49	...	.....	.....	2	+ 0.09	- 2.1	...	.....	.....
ζ Cygni ...	21	8	60 15	...	.....	.....	1	- 0.02	- 2.7	...	.....	.....
α Cephei ...	21	16	27 54	...	.....	.....	8	- 0.10	- 0.2	...	.....	.....
β Aquarii ...	21	25	96 5	...	.....	.....	2	+ 0.05	- 0.3	...	.....	.....
ϵ Pegasi ...	21	38	80 30	20	- 0.05	- 1.0	...	.....	.....	...	.....	.....
α Aquarii ...	22	0	90 53	21	+ 0.05	+ 0.7	1	+ 0.09	+ 1.4	...	.....	.....
θ Aquarii ...	22	11	98 22	23	+ 0.01	+ 0.3	...	.....	.....	...	.....	.....
γ Aquarii ...	22	16	91 53	10	0.00	- 0.4	10	+ 0.03	+ 1.7	4	0.00	+ 1.6
ζ Pegasi ...	22	36	79 46	...	.....	.....	2	- 0.02	+ 1.0	...	.....	.....
λ Aquarii ...	22	47	98 12	15	+ 0.02	+ 0.3	14	+ 0.05	+ 1.5	3	+ 0.02	+ 0.4
α Pis. Aus. <i>Fomalhaut</i> .	22	51	120 14	...	.....	.....	2	- 0.01	- 0.1	...	.....	.....
α Pegasi (<i>Markab</i>) ...	22	59	75 25	11	- 0.03	+ 1.6	..	.....	.....	...	.....	.....

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

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>° ' "</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
γ Piscium	23	11	87 21	8	0.00	- 1.3	2	+ 0.04	+ 0.4	...	...	...
κ Piscium	23	21	89 23	...	.....	.....	1	- 0.04	+ 3.6	...	...	...
ι Piscium	23	34	85 0	...	.....	.....	1	- 0.09	+ 1.7	...	...	...
ω Piscium	23	53	83 47	...	.....	.....	1	+ 0.03	+ 0.7	...	...	...

ERRATA.

Page	No.	Subject	For	Read
<i>Errata in Vol. VII.</i>				
255	9	Precession in R. A.	2.8712	2.8702
257	69	"	2.7103	1.7103
287	566	"	3.9943	3.9936
<i>Errata in Vol. VIII.</i>				
80	62	Date	Sep.	Feb.
53	120	Sign of Precession in R. A.	-	+

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1883

Separate Results of Madras Meridian Circle Observations in 1888.

Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
1	<i>Stone 8.</i>																		
Nov. 14	7.0	0	1	22.53	...	116	0	14.0	M	Nov. 15	7.3	0	14	18.79	...	126	38	8.4	M
16	7.0	1	22.46	...		0	12.8	M	16	7.0	14	18.72	...		33	10.2	M		
20	...	1	22.65	4		0	13.6	M	21	7.0	14	18.75	...		33	11.3	M		
26	7.0	1	22.33	...		0	15.6	M	26	7.0	14	18.72	...		33	9.8	M		
27	7.0	1	22.51	...		0	12.7	M	30	7.0	14	18.88	...		38	12.2	M		
2	<i>6 Ceti.</i>																		
Nov. 15	...	0	5	18.51	...	106	6	38.5	M	Nov. 14	7.0	0	18	31.02	...	92	52	1.6	M
29	...	5	18.40	...		6	35.4	M	20	6.7	18	30.94	...		52	1.2	M		
Dec. 4	...	5	18.41	...		6	37.4	R	Dec. 4	6.7	18	31.00	...		51	59.1	R		
5	...	5	18.31	...		6	37.3	R	5	6.7	18	31.06	...		51	59.0	R		
6	...	5	18.43	...		6	38.9	R	6	6.7	18	30.99	...		51	59.1	R		
3	<i>Stone 63.</i>																		
Nov. 16	...	0	7	48.55	...	116	56	18.1	M	Nov. 15	...	0	21	22.93	...	116	11	42.3	M
21	...	7	48.51	...		56	10.6	M	16	...	21	22.83	...		11	42.1	M		
26	...	7	48.24	...		56	12.4	M	21	...	21	22.87	...		11	41.8	M		
27	...	7	48.39	...		56	9.6	M	29	...	21	22.65	4		11	38.9	M		
30	...	7	48.51	...		56	14.1	M	Dec. 7	...	21	22.67	...		11	40.1	R		
4	<i>Taylor 37.</i>																		
Nov. 14	...	0	10	13.79	...	122	5	41.5	M	Nov. 30	...	0	22	40.16	...	130	33	47.1	M
29	...	10	13.51	...		5	43.0	M	Dec. 4	...	22	40.20	...		33	43.5	R		
Dec. 4	...	10	13.68	...		5	45.9	R	5	...	22	40.24	...		33	43.9	R		
5	...	10	13.73	...		5	46.2	R	6	...	22	40.06	...		33	45.3	R		
6	...	10	13.68	...		5	45.7	R	8	...	22	40.09	...		33	43.4	R		
5	<i>8 Ceti.</i>																		
Dec. 7	...	0	13	27.88	...	99	28	19.5	R	Nov. 14	...	0	24	31.62	5	114	26	8.4	M
8	...	13	27.84	...		28	20.0	R	16	...	24	31.82	3		26	7.8	M		
17	...	13	27.85	...		28	20.2	R	20	...	24	31.52	...		26	7.3	M		
18	...	13	27.79	...		28	20.4	R	21	...	24	31.65	4		26	7.7	M		
19	...	13	27.72	...		28	20.8	R	26	...	24	31.79	3		26	7.1	M		
20	...	13	27.81	...		28	19.9	R											
22	...	13	27.80	...		28	19.1	R											
6	<i>Stone 109.</i>																		
Nov. 15	7.3	0	14	18.79	...	126	38	8.4	M	Nov. 14	7.0	0	18	31.02	...	92	52	1.6	M
16	7.0	14	18.72	...		33	10.2	M	20	6.7	18	30.94	...		52	1.2	M		
21	7.0	14	18.75	...		33	11.3	M	Dec. 4	6.7	18	31.00	...		51	59.1	R		
26	7.0	14	18.72	...		33	9.8	M	5	6.7	18	31.06	...		51	59.0	R		
30	7.0	14	18.88	...		38	12.2	M	6	6.7	18	30.99	...		51	59.1	R		
7	<i>Taylor 78.</i>																		
Nov. 14	7.0	0	18	31.02	...	92	52	1.6	M	Nov. 14	7.0	0	18	31.02	...	92	52	1.6	M
20	6.7	18	30.94	...		52	1.2	M	20	6.7	18	30.94	...		52	1.2	M		
Dec. 4	6.7	18	31.00	...		51	59.1	R	Dec. 4	6.7	18	31.00	...		51	59.1	R		
5	6.7	18	31.06	...		51	59.0	R	5	6.7	18	31.06	...		51	59.0	R		
6	6.7	18	30.99	...		51	59.1	R	6	6.7	18	30.99	...		51	59.1	R		
8	<i>Stone 158.</i>																		
Nov. 15	...	0	21	22.93	...	116	11	42.3	M	Nov. 15	...	0	21	22.93	...	116	11	42.3	M
16	...	21	22.83	...		11	42.1	M	16	...	21	22.83	...		11	42.1	M		
21	...	21	22.87	...		11	41.8	M	21	...	21	22.87	...		11	41.8	M		
29	...	21	22.65	4		11	38.9	M	29	...	21	22.65	4		11	38.9	M		
Dec. 7	...	21	22.67	...		11	40.1	R	Dec. 7	...	21	22.67	...		11	40.1	R		
9	<i>Taylor 101.</i>																		
Nov. 30	...	0	22	40.16	...	130	33	47.1	M	Nov. 30	...	0	22	40.16	...	130	33	47.1	M
Dec. 4	...	22	40.20	...		33	43.5	R	Dec. 4	...	22	40.20	...		33	43.5	R		
5	...	22	40.24	...		33	43.9	R	5	...	22	40.24	...		33	43.9	R		
6	...	22	40.06	...		33	45.3	R	6	...	22	40.06	...		33	45.3	R		
8	...	22	40.09	...		33	43.4	R	8	...	22	40.09	...		33	43.4	R		
10	<i>Taylor 115.</i>																		
Nov. 14	...	0	24	31.62	5	114	26	8.4	M	Nov. 14	...	0	24	31.62	5	114	26	8.4	M
16	...	24	31.82	3		26	7.8	M	16	...	24	31.82	3		26	7.8	M		
20	...	24	31.52	...		26	7.3	M	20	...	24	31.52	...		26	7.3	M		
21	...	24	31.65	4		26	7.7	M	21	...	24	31.65	4		26	7.7	M		
26	...	24	31.79	3		26	7.1	M	26	...	24	31.79	3		26	7.1	M		
11	<i>Stone 237.</i>																		
Nov. 14	7.0	0	32	53.34	...	196	32	50.0	M	Nov. 14	7.0	0	32	53.34	...	196	32	50.0	M
15	7.0	32	53.46	...		32	47.8	M	15	7.0	32	53.46	...		32	47.8	M		
16	7.0	32	53.44	...		32	49.6	M	16	7.0	32	53.44	...		32	49.6	M		
20	...	32	53.45	8		32	50.7	M	20	...	32	53.45	8		32	50.7	M		
21	7.0	32	53.30	4		32	50.4	M	21	7.0	32	53.30	4		32	50.4	M		

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.									
		h.	m.	s.		"	"	"				"	h.	m.		s.	"	"		"								
12	<i>Stone 240.</i>																											
Dec. 17	7.0	0	38	16.88	...	133	56	18.4	R	Dec. 7	...	0	44	34.58	...	134	1	58.4	R									
18	7.0		38	16.97	...		56	19.6	R	8	...		44	34.43	4		1	57.8	R									
19	7.0		33	16.87	...		56	19.6	R	17	...		44	34.28	...		1	59.6	R									
20	7.0		33	16.90	...		56	19.6	R	18	...		44	34.38	...		1	59.2	R									
22	7.0		33	16.91	...		56	19.6	R	19	...		44	34.46	...		1	58.9	R									
13	<i>Taylor 181.</i>																											
Nov. 5	...	0	34	16.83	...	135	26	24.7	M	20	<i>Stone 342.</i>																	
14	<i>Taylor 215.</i>																											
Nov. 14	...	0	39	25.06	...	133	18	51.6	M	Nov. 14	...	0	46	55.96	...	114	38	36.9	M									
15	...		39	25.09	...		18	51.8	M	15	...		46	55.90	...		38	37.5	M									
16	...		39	25.01	...		18	51.5	M	16	...		46	55.96	...		38	38.1	M									
21	...		39	24.99	...		18	52.8	M	20	...		46	55.91	...		38	37.6	M									
23	...		39	25.15	...		18	53.4	M	21	...		46	55.75	...		38	36.3	M									
15	<i>W. B. E. O. 658.</i>																											
Dec. 4	9.1	0	39	36.26	...	88	55	54.4	R	21	<i>Stone 365.</i>																	
16	<i>63 Piscium δ</i>																											
Nov. 26	...	0	42	36.66	...	83	3	8.9	M	Nov. 23	...	0	50	15.01	...	118	24	35.5	M									
27	...		42	36.00	...		3	7.1	M	26	...		50	14.73	...		24	34.7	M									
29	...		42	36.09	...		3	5.1	M	27	...		50	14.96	...		24	34.8	M									
Dec. 11	...		42	36.66	...		3	6.8	R	29	...		50	14.76	...		24	32.1	M									
20	...		42	36.08	...		3	5.8	R	30	...		50	15.08	...		24	35.0	M									
22	...		42	36.72	...		3	6.8	R	22	<i>R. P. L. 10.</i>																	
31	...		42	36.82	...		3	5.8	M	Nov. 12	...	0	51	28.43	3	1	36	16.7	M									
17	<i>Anon.</i>																											
Nov. 30	9.0	0	42	38.72	...	89	0	20.4	M	13	...		51	27.48	3			16.7	M									
18	<i>Anon.</i>																											
Dec. 6	9.0	0	43	53.51	...	88	58	5.9	R	23	<i>Anon.</i>																	
19	<i>Taylor 252.</i>																											
20	<i>Stone 342.</i>																											
21	<i>Stone 365.</i>																											
22	<i>R. P. L. 10.</i>																											
23	<i>Anon.</i>																											
24	<i>2 Ursæ Minoris.</i>																											
25	<i>Stone 392.</i>																											
Nov. 14	...	0	55	50.27	...	129	32	54.9	M	Nov. 10	7.0	0	52	8.16	...	181	53	18.5	M									
16	...		55	50.22	...		32	57.4	M	Jan. 5	...	0	52	57.38	3	4	22	15.0	R									
20	...		55	50.28	...		32	56.9	M	24	<i>2 Ursæ Minoris.</i>																	
21	...		55	50.22	...		32	56.9	M	Nov. 14	...	0	55	50.27	...	129	32	54.9	M									
26	...		55	50.03	...		32	56.5	M	16	...		55	50.22	...		32	57.4	M									

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
26		<i>R. P. L. 14.</i>								33		<i>Stone 489.</i>								
Dec. 29	...	0	56	36.82	3	3	28	41.6	R	Dec. 11	6.7	1	10	57.89	...	182	37	39.5	R	
										17	6.7	10	57.79	...				37	39.3	R
										18	6.7	10	57.65	...				37	39.4	R
										19	7.0	10	57.74	...				37	39.2	R
										20	6.7	10	57.84	...				37	39.0	R
27		<i>Stone 407.</i>								34		<i>Anon.</i>								
Nov. 15	...	0	57	32.77	5	187	1	35.8	M	Jan. 5	7.0	1	13	7.84	...	130	43	13.0	R	
23	...	57	32.71	...			1	40.2	M	Nov. 10	7.0	13	7.66	...				43	14.7	M
27	...	57	32.55	...			1	36.7	M	13	7.0	13	7.70	...				43	13.0	M
30	...	57	32.82	...			1	36.9	M	14	7.0	13	7.71	6				43	14.6	M
Dec. 7	...	57	32.46	...			1	37.5	R											
28		<i>30 Ceti.</i>								35		<i>Taylor 428.</i>								
Nov. 14	...	1	1	53.21	...	100	24	42.8	M	Nov. 15	6.7	1	13	33.26	...	133	56	57.9	M	
16	...	1	52.99	...			24	40.5	M	16	...	13	33.21	...				56	53.0	M
20	...	1	53.04	5			24	42.6	M	20	6.7	13	33.18	...				56	59.7	M
26	...	1	53.04	...			24	44.3	M	21	...	13	33.05	3				56	58.9	M
29	...	1	53.21	6			24	43.4	M	Dec. 22	6.7	13	33.12	...				56	57.5	R
29		<i>43 Andromedæ β</i>								36		<i>R. P. L. 18.</i>								
Jan. 1	...	1	3	10.83	...	54	59	59.5	R	Dec. 28	...	1	13	33.26	3	2	2	52.1	R	
5	...	3	11.00	...			59	57.9	R											
30		<i>Taylor 391.</i>								37		<i>1 Ursæ Minoris α, Polaris—s.p.</i>								
Nov. 15	...	1	6	51.54	...	121	25	18.7	M	Apl. 3	...	1	15	49.92	3	1	18	55.7	M	
16	...	6	51.57	...			25	19.5	M	4	...	15	49.81	3				18	54.8	M
23	...	6	51.42	...			25	20.9	M	5	...	15	49.63	3				18	54.5	M
26	...	6	51.34	...			25	18.7	M	6	...	15	49.95	3				18	53.7	M
27	...	6	51.46	...			25	17.8	M	7	...	15	49.98	3				18	54.3	M
										9	...	15	50.55	3				18	55.4	M
31		<i>Anon.</i>								16	...	15	50.08	3				18	54.1	M
Nov. 9	9.0	1	9	4.03	5	145	51	44.7	M	17	...	15	49.75	3				18	53.2	M
										21	...	15	49.25	3				18	51.8	M
32		<i>Anon.</i>								May 3	...	15	50.46	3				18	56.1	R
Jan. 2	8.0	1	10	7.77	...	124	38	59.1	R	5	...	15	52.99	3				18	54.3	R
3	8.0	10	7.72	...			38	59.8	R	7	...	15	52.20	3				18	54.8	R
										8	...	15	51.12	3				18	54.5	R
										9	...	15	50.53	3				18	54.5	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"	
38 <i>45 Ceti θ¹</i>									
Jan. 2	...	1	18	10.33	...	98	47	15.7	R
3	...		18	10.46	...		47	15.9	R
39 <i>93 Piscium ρ</i>									
Dec. 18	...	1	19	57.00	...	71	26	^{13.3} 5.9	R
40 <i>Anon.</i>									
Dec. 5	9.7	1	20	7.18	3	122	56	18.0	R
6	9.7		20	7.27	4		56	19.3	R
41 <i>Taylor 487.</i>									
Nov. 14	...	1	24	51.92	...	116	48	45.2	M
16	...		24	51.92	...		48	45.8	M
20	...		24	51.87	5		48	47.4	M
21	...		24	51.83	5		48	46.1	M
23	...		24	52.03	...		48	47.5	M
42 <i>99 Piscium η</i>									
Dec. 27	...	1	25	13.33	...	75	15	28.0	R
28	...		25	13.31	...		15	27.9	R
29	...		25	13.43	...		15	27.1	R
31	...		25	13.34	...		15	28.4	M
43 <i>Stone 596.</i>									
Jan. 5	7.0	1	25	30.74	...	128	23	39.4	R
9	...		25	30.59	6		23	39.7	M
Nov. 15	7.0		25	30.65	...		23	40.2	M
Dec. 4	7.0		25	30.43	...		23	38.9	R
5	7.0		25	30.41	...		23	39.5	R
44 <i>Taylor 524.</i>									
Nov. 16	...	1	29	48.62	4	147	36	1.8	M
30	...		29	48.54	...		36	1.2	M
Dec. 4	...		29	48.47	...		36	2.8	R
5	...		29	48.52	...		36	3.5	R
6	...		29	48.23	...		35	50.5	R
45 <i>α Eridani, Achernar.</i>									
Dec. 28	...	1	33	21.53	...	147	49	54.4	R
46 <i>Anon.</i>									
Jan. 1	7.0	1	33	27.38	...	188	31	50.8	R
2	7.0		33	27.47	...		31	50.3	R
3	7.0		33	27.34	...		31	50.5	R
4	7.0		33	27.37	...		31	51.1	R
47 <i>106 Piscium ν</i>									
Dec. 27	...	1	35	20.52	...	85	6	18.0	R
48 <i>Anon.</i>									
Jan. 5	8.0	1	36	20.23	...	140	14	24.3	R
Dec. 5	8.0		36	20.07	...		14	24.6	R
6	8.0		36	19.97	...		14	24.3	R
20	8.0		36	20.02	...		14	25.8	R
49 <i>110 Piscium ο</i>									
Nov. 12	...	1	39	12.86	...	81	25	55.9	M
13	...		39	12.98	...		25	55.0	M
16	...		39	12.94	...		25	54.6	M
20	...		39	12.79	...		25	55.5	M
21	...		39	12.92	...		25	55.1	M
23	...		39	12.86	...		25	56.6	M
27	...		39	12.84	...		25	53.9	M
30	...		39	12.90	...		25	54.8	M
Dec. 28	...		39	12.89	...		25	54.6	R
29	...		39	12.90	...		25	54.7	R
50 <i>Taylor 578.</i>									
Nov. 14	...	1	40	6.98	...	96	19	7.3	M
15	...		40	6.86	4		19	8.3	M
Dec. 4	...		40	6.71	...		19	4.9	R
8	...		40	6.74	...		19	5.4	R
17	...		40	6.76	...		19	6.2	R

Separate Results of Madras Meridian Circle Observations in 1888.

Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
51 <i>Stone 704.</i>										56 <i>Stone 812.</i>									
Jan. 1	8·0	1	41	46·80	...	133	54	17·9	R	Nov. 14	...	1	57	20·00	...	105	52	13·6	M
2	8·0		41	46·19	...		54	17·2	R	15	...		57	20·47	...		52	13·6	M
3	7·0		41	45·95	...		54	17·9	R	16	...		57	20·44	...		52	13·8	M
4	7·0		41	46·02	...		54	15·9	R	23	...		57	20·48	...		52	13·8	M
5	7·0		41	46·15	...		54	15·8	R										
52 <i>Taylor 616.</i>										57 <i>Stone 824.</i>									
Nov. 14	...	1	46	22·11	5	140	47	8·7	M	Jan. 4	7·0	1	59	40·87	...	184	4	6·7	R
15	...		46	22·09	5		47	8·2	M	5	7·0		59	40·57	...		4	6·2	R
20	...		46	22·04	...		47	10·0	M	9	...		59	40·48	...		4	4·8	M
27	...		46	22·09	...		47	7·8	M										
30	...		46	22·03	5		47	8·0	M	58 <i>13 Arietis α</i>									
53 <i>6 Arietis β</i>										Jan. 1	...	2	0	34·75	...	67	5	28·2	R
Dec. 4	...	1	48	10·64	...	69	45	51·5	R	2	...		0	34·79	...		5	28·0	R
5	...		48	10·60	...		45	51·7	R	3	...		0	34·72	...		5	28·8	R
6	...		48	10·57	...		45	52·9	R	8	...		0	34·60	...		5	31·6	M
7	...		48	10·60	...		45	49·9	R	11	...		0	34·59	...		5	31·4	M
8	...		48	10·63	...		45	50·8	R	12	...		0	34·75	...		5	30·3	M
11	...		48	10·55	...		45	52·3	R	15	...		0	34·58	...		5	28·7	M
17	...		48	10·62	...		45	51·8	R	16	...		0	34·64	...		5	30·5	M
18	...		48	10·61	...		45	52·4	R	18	...		0	34·59	...		5	30·7	M
19	...		48	10·68	...		45	52·8	R	19	...		0	34·77	...		5	32·0	M
20	...		48	10·57	...		45	51·2	R	20	...		0	34·78	...		5	31·2	M
22	...		48	10·64	...		45	52·1	R	22	...		0	34·80	...		5	30·4	M
25	...		48	10·61	...		45	51·6	R	24	...		0	34·72	...		5	29·6	M
26	...		48	10·58	...		45	51·2	R	Dec. 25	...		0	34·66	...		5	29·4	R
54 <i>Taylor 626.</i>										26	...		0	34·69	...		5	28·7	R
Jan. 2	...	1	48	20·95	...	129	10	21·5	R	29	...		0	34·70	...		5	30·0	R
3	...		48	20·89	...		10	21·6	R	31	...		0	34·69	...		5	29·5	M
4	...		48	20·98	...		10	19·9	R	59 <i>Stone 834.</i>									
5	...		48	21·11	...		10	19·6	R	Nov. 20	7·0	2	1	19·24	...	142	33	5·4	M
8	...		48	20·78	...		10	23·0	M	Dec. 4	6·7		1	18·88	...		33	3·5	R
55 <i>Anon.</i>										5	6·7		1	18·90	...		33	4·8	R
Jan. 4	8·0	1	53	53·49	...	127	35	3·2	R	6	6·7		1	18·80	...		33	3·9	R
5	8·0		53	53·47	...		35	2·8	R	7	6·7		1	19·06	...		33	5·0	R
9	...		53	53·43	...		35	5·5	M	60 <i>Stone 850.</i>									
12	...		53	53·53	...		35	4·6	M	Nov. 15	7·0	2	3	48·66	...	126	22	45·6	M
Nov. 13	8·0		53	53·27	...		35	2·6	M	16	...		3	48·62	6		22	44·5	M
										Dec. 18	7·0		3	48·31	...		22	46·2	R
										20	7·0		3	48·29	...		22	45·0	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
76 <i>Stone 1000.</i>										83 <i>Taylor 916.</i>									
Nov. 21	...	2	25	20.70	5	154	49	28.8	M	Jan. 3	...	2	37	26.80	...	128	53	2.0	R
Dec. 4	...		25	20.80	...		49	28.4	R	4	...		37	27.02	...		53	0.6	R
5	...		25	20.80	...		49	25.3	R	5	...		37	27.20	...		53	0.3	R
6	...		25	20.70	...		49	24.6	R	8	...		37	27.18	6		53	4.2	M
7	...		25	20.57	...		49	23.5	R	9	...		37	27.09	6		53	1.8	M
77 <i>Lacaille 782.</i>										84 <i>Anon.</i>									
Jan. 5	6.5	2	26	46.94	...	148	19	46.8	R	Jan. 2	7.7	2	37	31.16	...	136	6	9.6	R
78 <i>R. P. L. 26.</i>										85 <i>Taylor 926.</i>									
Dec. 29	...	2	27	32.42	3	3	27	48.1	R	Nov. 27	6.7	2	39	2.48	...	115	59	34.0	M
<i>R. P. L. 26.—s.p.</i>										Dec. 4	6.7		39	2.41	...		59	32.9	R
May 5	...	2	27	29.81	2	3	27	49.8	R	5	6.7		39	2.39	...		59	33.2	R
79 <i>Anon.</i>										6	6.7		39	2.28	...		59	32.7	R
Jan. 1	7.7	2	28	16.98	...	149	23	21.0	R	7	6.7		39	2.29	...		59	30.5	R
3	7.7		28	16.87	...		23	21.2	R	86 <i>Stone 1144.</i>									
4	7.7		28	16.58	...		23	19.8	R	Dec. 17	7.0	2	42	14.98	...	131	27	2.4	R
80 <i>77 Ceti.</i>										18	7.0		42	14.99	...		27	2.6	R
Nov. 23	...	2	28	56.44	...	98	22	16.8	M	20	7.0		42	15.11	...		27	1.3	R
27	...		28	56.28	...		22	16.7	M	22	7.0		42	15.14	...		27	0.7	R
Dec. 17	...		28	55.99	...		22	15.7	R	25	7.0		42	14.97	...		27	2.9	R
18	...		28	56.02	...		22	15.9	R	87 <i>Anon.</i>									
20	...		28	56.08	...		22	15.3	R	Jan. 2	7.7	2	42	49.02	...	149	53	8.7	R
81 <i>Anon.</i>										88 <i>Anon.</i>									
Jan. 17	7.0	2	33	12.18	...	137	9	14.7	M	Jan. 17	7.5	2	43	47.31	...	138	24	5.4	M
18	...		33	12.02	6		9	12.7	M	19	...		43	47.00	...		24	5.7	M
19	...		33	12.21	...		9	14.5	M	20	7.5		43	47.06	...		24	2.3	M
20	...		33	11.98	...		9	15.1	M	22	...		43	47.31	5		24	6.8	M
22	...		33	12.43	...		9	15.7	M	24	...		43	47.99	4		24	7.3	M
82 <i>86 Ceti γ—2nd.</i>										89 <i>43 Arietis σ</i>									
Dec. 27	...	2	37	14.25	...	87	15	29.2	R	Dec. 6	...	2	45	2.04	...	75	24	3.1	R
28	...		37	14.28	...		15	28.8	R	7	...		45	1.90	...		24	2.8	R
										8	...		45	1.87	4		24	1.4	R
										11	...		45	1.92	...		24	1.5	R
										28	...		45	2.06	...		24	2.2	R
										29	...		45	2.01	...		24	2.1	R
										31	...		45	1.89	...		24	0.8	M

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
90 <i>Anon.</i>																			
Jan. 5	7.5	2	46	1.11	...	182	42	36.0	R										
9	...		46	1.20	5		42	37.5	M										
11	...		46	1.37	5		42	37.4	M										
15	...		46	1.16	...		42	38.2	M										
16	...		46	1.28	...		42	37.7	M										
91 <i>Stone 1170.</i>																			
Nov. 27	6.7	2	46	38.45	...	131	26	45.2	M										
Dec. 5	6.7		46	38.60	...		26	45.3	R										
17	6.7		46	38.46	...		26	45.9	R										
18	6.7		46	38.46	...		26	46.1	R										
20	6.7		46	38.29	...		26	41.7	R										
92 <i>Anon.</i>																			
Jan. 3	7.5	2	47	2.20	...	133	18	51.6	R										
4	7.5		47	2.41	...		18	49.9	R										
93 <i>Stone 1192.</i>																			
Dec. 7	7.0	2	49	36.26	...	135	5	3.4	R										
11	7.0		49	36.30	...		5	3.0	R										
25	7.0		49	36.29	5		5	2.3	R										
26	7.0		49	36.40	4		5	2.5	R										
28	7.0		49	36.58	...		5	2.6	R										
94 <i>Stone 1208.</i>																			
Jan. 15	...	2	50	58.96	...	146	21	22.1	M										
18	...		50	59.06	...		21	25.4	M										
19	...		50	58.88	...		21	22.0	M										
20	...		50	59.08	...		21	24.4	M										
95 <i>Stone 1212.</i>																			
Dec. 5	7.0	2	51	42.09	...	141	44	1.9	R										
6	7.0		51	42.00	...		44	2.4	R										
22	7.0		51	42.23	...		44	2.6	R										
31	7.0		51	42.25	...		44	3.0	M										
96 <i>Stone 1223.</i>																			
Dec. 29	...	2	52	28.65	5	154	28	45.5	R										
97 <i>Taylor 1024.</i>																			
Jan. 1	7.0	2	55	47.36	...	132	20	19.0	R										
2	7.0		55	47.20	...		20	18.7	R										
5	7.0		55	46.96	4		20	17.9	R										
98 <i>Taylor 1027.</i>																			
Nov. 27	...	2	56	34.86	...	118	32	29.1	M										
30	...		56	34.79	...		32	26.6	M										
Dec. 7	...		56	34.77	...		32	25.5	R										
18	...		56	34.57	...		32	24.6	R										
20	...		56	34.71	...		32	24.7	R										
99 <i>Anon.</i>																			
Jan. 18	...	2	57	42.21	6	132	17	53.9	M										
19	7.5		57	42.02	...		17	54.1	M										
20	7.5		57	41.95	...		17	53.7	M										
22	...		57	42.43	...		17	54.9	M										
100 <i>Stone 1263.</i>																			
Dec. 11	6.7	2	58	55.53	...	137	26	3.0	R										
17	6.7		58	55.50	6		26	4.2	R										
22	6.7		58	55.84	...		26	2.6	R										
25	6.7		58	55.67	...		26	2.5	R										
26	6.7		58	55.60	...		26	2.1	R										
101 <i>Stone 1264.</i>																			
Jan. 1	7.0	2	59	13.98	6	134	30	42.3	R										
3	7.0		59	13.84	...		30	41.8	R										
15	7.0		59	13.67	...		30	42.7	M										
16	7.0		59	13.98	4		30	42.1	M										
102 <i>Taylor 1042.</i>																			
Jan. 2	...	2	59	43.54	...	134	21	22.2	R										
4	...		59	43.56	...		21	20.2	R										
9	...		59	43.59	5		21	21.3	M										
11	...		59	43.51	...		21	21.7	M										
12	...		59	43.49	...		21	21.8	M										

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
103 <i>R. P. L. 33.</i>										Jan. 11	...	3	18	35.91	3	134	32	55.9	M
Dec. 7	...	3	4	48.33	3	5	30	25.0	R	12	8.0	18	35.73	...	32	54.0	M		
20	...	4	49.43	3	3	80	24.0	R	18	8.0	18	35.57	6	32	56.0	M			
104 <i>57 Arietis δ</i>																			
Dec. 4	...	3	4	56.31	...	70	42	59.2	R	Jan. 1	7.0	3	19	17.21	...	180	29	29.7	R
5	...	4	56.30	...	42	59.5	R	2	7.0	19	17.12	...	29	29.4	R				
17	...	4	56.29	...	42	59.4	R	3	7.0	19	17.02	...	29	28.8	R				
18	...	4	56.35	...	42	59.5	R												
25	...	4	56.33	...	42	59.4	R												
26	...	4	56.31	...	42	59.2	R												
31	...	4	56.32	...	42	58.8	M												
105 <i>Stone 1342.</i>																			
Jan. 1	7.0	3	9	50.85	...	180	41	31.9	R										
2	7.0	9	50.72	...	41	31.5	R												
106 <i>Anon.</i>																			
Jan. 3	8.0	3	12	16.99	...	126	8	38.7	R										
4	8.0	12	17.30	...	8	37.0	R												
12	8.0	12	17.40	...	8	37.7	M												
107 <i>33 Persei α</i>																			
Jan. 19	...	3	15	58.29	...	40	33	23.8	M										
20	...	15	58.22	...	33	24.1	M												
22	...	15	58.35	...	33	22.7	M												
108 <i>1 Tauri ο, Var. 5.</i>																			
Jan. 5	...	3	18	31.09	...	81	22	59.6	R										
24	...	18	31.07	...	22	59.9	M												
31	...	18	30.92	...	23	0.8	M												
Feb. 1	...	18	31.07	...	23	0.0	R												
Dec. 28	...	18	31.13	...	23	1.9	R												
29	...	18	31.07	...	23	2.1	R												
109 <i>Anon.</i>																			
Jan. 4	8.0	3	18	35.56	...	134	32	53.5	R										
8	...	18	35.50	...	32	57.3	M												
110 <i>Stone 1414.</i>																			
Jan. 1	7.0	3	19	17.21	...	180	29	29.7	R										
2	7.0	19	17.12	...	29	29.4	R												
3	7.0	19	17.02	...	29	28.8	R												
111 <i>Anon.</i>																			
Jan. 12	...	3	26	30.32	...	135	8	1.7	M										
15	7.7	26	30.25	...	8	3.9	M												
16	7.7	26	30.19	...	8	1.1	M												
112 <i>18 Eridani ε</i>																			
Jan. 4	...	3	27	25.09	...	99	51	19.1	R										
5	...	27	25.10	...	51	19.3	R												
8	...	27	25.14	...	51	20.9	M												
9	...	27	25.12	...	51	19.4	M												
17	...	27	25.24	...	51	20.6	M												
18	...	27	25.20	...	51	20.9	M												
113 <i>R. P. L. 34.</i>																			
Jan. 2	...	3	28	19.86	3	3	43	28.7	R										
3	...	28	20.11	3	43	27.5	R												
Dec. 28	...	28	19.15	3	43	28.9	R												
29	...	28	18.63	3	43	30.7	R												
114 <i>Stone 1522.</i>																			
Jan. 1	7.0	3	34	39.77	...	136	37	23.0	R										
2	7.0	34	39.65	...	37	22.1	R												
115 <i>Stone 1526.</i>																			
Jan. 3	8.0	3	35	9.17	...	126	19	10.3	R										
4	8.0	35	9.23	...	19	8.7	R												
5	9.0	35	9.38	...	19	8.3	R												
8	...	35	9.42	5	19	12.7	M												
9	...	35	9.08	5	19	11.7	M												

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
116 <i>25 Tauri η, Aleyona.</i>						121 <i>38 Eridani ο¹</i>					
Jan. 1	...	3 40 31.86	...	66 15 28.1	R	Jan. 11	...	4 6 9.25	...	97 8 35.3	M
2	...	40 31.82	...	15 28.3	R	122 <i>α Reticuli.</i>					
4	...	40 31.79	...	15 27.1	R	Feb. 8	...	4 12 55.22	4	152 46 1.5	R
Dec. 31	...	40 31.75	...	15 27.5	M	9	...	12 55.32	5	46 1.4	R
117 <i>Anon.</i>						12	...	12 55.36	...	46 0.4	R
Jan. 12	...	3 44 17.82	...	136 26 45.3	M	13	...	12 55.20	...	46 1.4	R
18	8.5	44 17.93	...	26 48.2	M	123 <i>54 Tauri γ</i>					
19	...	44 17.83	...	26 45.4	M	Jan. 2	...	4 13 8.11	...	74 39 22.0	R
20	8.0	44 18.08	...	26 49.2	M	3	...	13 8.14	...	39 21.6	R
118 <i>Anon.</i>						4	...	13 8.15	...	39 20.7	R
Jan. 3	9.0	3 49 49.24	...	126 22 57.5	R	5	...	13 8.15	...	39 20.5	R
4	...	49 49.29	...	22 55.7	R	8	...	13 8.16	...	39 22.1	M
5	9.0	49 49.41	...	22 55.6	R	9	...	13 8.08	...	39 22.0	M
12	9.0	49 49.63	...	22 57.5	M	12	...	13 8.14	...	39 21.1	M
15	9.0	49 49.45	...	22 54.0	M	15	...	13 8.17	...	39 22.3	M
119 <i>37 Tauri A¹.</i>						16	...	13 8.15	...	39 21.4	M
Jan. 3	...	3 57 46.64	...	68 14 19.9	R	17	...	13 8.04	...	39 22.9	M
4	...	57 46.68	...	14 18.1	R	18	...	13 8.04	...	39 23.2	M
8	...	57 46.69	...	14 21.5	M	19	...	13 8.02	...	39 22.1	M
9	...	57 46.70	...	14 20.7	M	20	...	13 8.14	...	39 22.6	M
11	...	57 46.73	...	14 20.7	M	124 <i>Taylor 1553.</i>					
12	...	57 46.69	...	14 19.4	M	Jan. 8	...	4 20 49.41	...	134 17 23.2	M
15	...	57 46.83	...	14 19.5	M	12	7.7	20 49.56	...	17 24.0	M
16	...	57 46.72	...	14 21.0	M	15	...	20 49.54	...	17 21.7	M
17	...	57 46.65	...	14 22.3	M	16	7.0	20 49.43	...	17 22.9	M
25	...	57 46.67	...	14 22.7	M	125 <i>74 Tauri ε</i>					
26	...	57 46.74	...	14 21.8	M	Jan. 1	...	4 21 47.08	...	71 4 48.7	R
27	...	57 46.64	...	14 22.2	M	18	...	21 47.10	...	4 50.1	M
29	...	57 46.71	...	14 20.4	M	126 <i>Taylor 1595.</i>					
30	...	57 46.65	...	14 21.1	M	Jan. 1	7.5	4 27 0.43	...	131 25 33.1	R
31	...	57 46.85	...	14 21.2	M	3	6.7	27 0.21	...	25 34.0	R
Feb. 1	...	57 46.70	...	14 18.4	R	4	6.7	27 0.32	...	25 32.3	R
120 <i>R. P. L. 35.</i>						8	...	27 0.15	...	25 33.9	M
Jan. 1	...	4 0 13.27	3	4 45 17.4	R						
2	...	0 13.82	3	45 18.1	R						

Separate Results of Madras Meridian Circle Observations in 1888.

Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
127 <i>87 Tauri α, Aldebaran.</i>									132 <i>R. P. L. 37.</i>										
Jan. 31	...	4	29	12.48	...	78	43	40.4	M	Jan. 4	...	4	50	27.77	3	4	11	50.6	R
Feb. 1	...	29	12.47	...	...	48	35.6	R	8	...	50	27.55	3	...	11	49.6	M
2	...	29	12.48	...	...	48	37.3	R	9	...	50	27.83	3	...	11	49.1	M
8	...	29	12.49	...	...	48	37.9	R	12	...	50	27.80	3	...	11	47.9	M
5	...	29	12.48	...	...	48	37.6	R	15	...	50	27.83	3	...	11	49.5	M
6	...	29	12.55	...	...	48	36.4	M	16	...	50	28.03	3	...	11	50.6	M
7	...	29	12.31	...	...	48	38.2	M	17	...	50	27.79	3	...	11	52.0	M
8	...	29	12.45	...	...	48	36.4	R	18	...	50	27.85	3	...	11	48.5	M
128 <i>α Doradus.</i>									133 <i>R. P. L. 37—s. p.</i>										
Feb. 9	...	4	31	28.17	...	145	17	13.6	R	May 7	...	4	50	27.22	3	4	11	50.0	R
10	...	31	28.27	...	...	17	14.1	R	12	...	50	27.69	3	...	11	47.5	R
12	...	31	28.24	...	...	17	12.8	R	133 <i>7 Aurigæ ε, Var. 1.</i>								
13	...	31	28.06	17	12.0	R	Feb. 9	...	4	53	34.14	...	46	21	4.6	R	
14	...	31	28.32	...	...	17	18.4	R	10	...	53	34.34	...	...	21	4.0	R
129 <i>Stone 1991.</i>									134 <i>Stone 2191.</i>										
Jan. 2	...	4	32	31.04	...	135	22	29.8	R	Jan. 11	7.5	4	56	19.66	6	131	13	20.1	M
3	...	32	30.97	...	...	22	29.5	R	25	...	56	19.69	5	...	13	17.3	M
4	...	32	31.07	...	...	22	30.2	R	26	...	56	19.78	...	...	13	19.7	M
8	...	32	30.99	...	...	22	30.8	M	27	7.0	56	19.77	...	...	13	20.9	M
130 <i>Anon.</i>									135 <i>R. P. L. 39.</i>										
Jan. 11	7.0	4	45	26.36	...	181	47	23.9	M	Jan. 15	...	5	4	14.46	3	4	26	1.0	M
31	7.0	45	26.50	...	...	47	24.0	M	16	...	4	18.60	3	...	26	1.4	M
Feb. 2	7.0	45	26.50	...	...	47	22.7	R	17	...	4	14.03	3	...	26	0.5	M
3	7.0	45	26.53	...	...	47	21.9	R	18	...	4	14.13	3	...	26	0.1	M
5	7.0	45	26.56	...	...	47	22.2	R	20	...	4	14.11	3	...	26	2.5	M
131 <i>3 Aurigæ ι</i>									135 <i>R. P. L. 39.</i>										
Jan. 22	...	4	49	22.41	...	57	1	15.5	M	Jan. 15	...	5	4	14.46	3	4	26	1.0	M
24	...	49	22.41	...	...	1	16.0	M	16	...	4	18.60	3	...	26	1.4	M
25	...	49	22.42	...	...	1	15.3	M	17	...	4	14.03	3	...	26	0.5	M
26	...	49	22.41	...	...	1	15.8	M	18	...	4	14.13	3	...	26	0.1	M
27	...	49	22.46	...	...	1	17.6	M	20	...	4	14.11	3	...	26	2.5	M
29	...	49	22.44	...	...	1	16.5	M	22	...	4	14.27	3	...	26	0.3	M
30	...	49	22.52	...	...	1	16.7	M	25	...	4	18.76	3	...	26	5.2	M
Feb. 7	...	49	22.37	...	...	1	14.3	M	27	...	4	13.92	3	...	26	1.9	M
8	...	49	22.43	...	...	1	14.5	R	30	...	4	18.93	3	...	26	0.7	M
										31	...	4	13.90	3	...	26	4.0	M	

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
R. P. L. 39.—s.p.										R. P. L. 40.—s.p.									
May 18	...	5	4	13.83	3	4	26	3.8	R	May 18	...	5	24	37.36	3	4	51	57.5	R
19	...	4	13.82	3	26	3.9	R	19	...	24	37.68	3	51	58.0	R				
23	...	4	13.40	3	26	6.1	R	23	...	24	37.44	3	51	59.3	R				
28	...	4	13.95	3	26	5.1	R												
June 15	...	4	14.19	3	26	8.5	M												
Aug. 8	...	4	14.45	3	26	1.6	R												
9	...	4	14.23	3	26	5.1	R												
136 13 Aurigæ α, Capella.										140 34 Orionis δ, Var. 1.									
Jan. 12	...	5	8	2.75	...	44	7	19.9	M	Jan. 20	...	5	26	1.88	...	90	33	12.9	M
19	...	8	2.68	...	7	19.5	M												
24	...	8	2.66	...	7	19.6	M												
26	...	8	2.75	...	7	18.2	M												
29	...	8	2.57	...	7	20.2	M												
Feb. 14	...	8	2.63	...	7	19.3	R												
15	...	8	2.64	...	7	19.8	R												
16	...	8	2.52	...	7	19.2	R												
17	...	8	2.65	...	7	20.4	R												
137 19 Orionis β, Rigel.										141 11 Leporis α									
Feb. 2	...	5	8	54.83	...	98	20	16.0	R	Jan. 25	...	5	27	31.25	...	107	54	25.2	M
3	...	8	54.85	...	20	14.9	R			26	...	27	31.21	...	54	26.1	M		
5	...	8	54.85	...	20	15.9	R												
8	...	8	54.88	...	20	16.5	R												
9	...	8	54.80	...	20	17.8	R												
10	...	8	54.83	...	20	15.3	R												
12	...	8	54.89	...	20	16.6	R												
13	...	8	54.85	...	20	16.8	R												
138 112 Tauri β										142 R. P. L. 41.—s.p.									
Jan. 12	...	5	18	53.74	...	61	29	33.5	M	June 1	...	5	29	13.81	3	4	44	57.1	R
15	...	18	53.76	...	29	35.5	M			7	...	29	13.96	3	44	59.2	R		
16	...	18	53.82	...	29	35.7	M			Aug. 8	...	29	14.25	3	44	56.8	R		
17	...	18	53.82	...	29	34.8	M			11	...	29	14.85	3	44	59.3	R		
139 R. P. L. 40.										143 R. P. L. 42.									
Jan. 15	...	5	24	38.64	3	4	51	56.5	M	Jan. 15	...	5	36	38.91	3	2	40	52.2	M
16	...	24	38.05	3	51	59.6	M			16	...	36	37.79	3	40	51.1	M		
18	...	24	37.47	3	51	56.7	M			20	...	36	37.11	3	40	55.0	M		
144 53 Orionis κ										143 R. P. L. 42.									
Jan. 19	...	5	42	12.56	...	90	42	45.4	M	Jan. 15	...	5	36	38.91	3	2	40	52.2	M
27	...	42	12.44	...	42	47.0	M			16	...	36	37.79	3	40	51.1	M		
29	...	42	12.39	...	42	45.3	M			20	...	36	37.11	3	40	55.0	M		
30	...	42	12.39	...	42	47.3	M			24	...	36	37.01	3	40	54.3	M		

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
145 <i>33 Aurigæ δ</i>																			
Feb. 8	...	5	49	53.50	...	35	43	34.6	R	Feb. 8	...	6	45	16.50	3	2	46	27.1	R
9	...	49	53.47	...	...	43	34.3	R	9	...	45	16.62	3	...	46	26.8	R	
10	...	49	53.51	...	...	43	34.2	R	10	...	45	17.40	3	...	46	26.2	R	
12	...	49	53.71	...	...	43	33.6	R	12	...	45	16.94	3	...	46	26.1	R	
13	...	49	53.55	...	...	43	32.0	R	13	...	45	17.73	3	...	46	27.5	R	
146 <i>R. P. L. 43.</i>																			
Jan. 18	...	6	0	28.63	3	3	14	15.6	M	14	...	45	17.27	3	...	46	26.1	R	
19	...	0	28.64	3	...	14	15.5	M	15	...	45	17.84	3	...	46	24.6	R		
20	...	0	28.48	3	...	14	17.0	M	19	...	45	17.09	3	...	46	25.3	R		
24	...	0	28.53	3	...	14	15.5	M	20	...	45	17.58	3	...	46	26.4	R		
25	...	0	28.05	3	...	14	18.9	M	24	...	45	18.33	3	...	46	25.9	R		
149 <i>51 Cephei (Hov.).</i>																			
150 <i>Anon.—2nd Star.</i>																			
Feb. 7	9.5	6	48	35.48	...	70	33	39.0	M	15	...	45	17.09	3	...	46	25.3	R	
9	9.5	48	35.55	...	...	33	38.0	R	20	...	45	17.58	3	...	46	26.4	R	
12	9.5	48	35.30	...	...	33	37.9	R	24	...	45	18.33	3	...	46	25.9	R	
13	9.5	48	35.54	...	...	33	37.0	R										
151 <i>W. B. N. VI. 1448.</i>																			
Feb. 5	9.0	6	49	45.87	...	62	3	33.8	R	15	...	45	17.09	3	...	46	25.3	R	
6	9.0	49	45.85	...	...	3	36.7	M	20	...	45	17.58	3	...	46	26.4	R	
8	9.0	49	45.65	...	...	3	41.3	R	24	...	45	18.33	3	...	46	25.9	R	
10	9.0	49	45.72	...	...	3	40.2	R										
14	9.0	49	45.95	...	...	3	39.4	R										
152 <i>22 Canis Majoris.</i>																			
Feb. 9	...	6	57	3.52	...	117	46	6.6	R	15	...	45	17.09	3	...	46	25.3	R	
10	...	57	3.57	...	...	46	5.7	R	20	...	45	17.58	3	...	46	26.4	R	
12	...	57	3.58	...	...	46	4.3	R	24	...	45	18.33	3	...	46	25.9	R	
13	...	57	3.55	...	...	46	4.7	R										
14	...	57	3.59	...	...	46	5.4	R										
147 <i>7 Geminorum η</i>																			
Feb. 2	...	6	7	48.90	...	67	27	36.4	R	15	...	38	43.37	...	58	45.0	R		
3	...	7	48.88	...	...	27	36.9	R	16	...	38	43.97	...	58	46.3	R		
5	...	7	48.91	...	...	27	36.8	R	17	...	38	43.89	...	58	45.2	R		
6	...	7	48.85	...	...	27	35.4	M	19	...	38	43.84	...	58	45.0	R		
7	...	7	48.76	...	...	27	37.5	M	20	...	38	43.37	...	58	47.2	R		
9	...	7	48.93	...	...	27	37.7	R	21	...	38	43.30	...	58	46.9	R		
10	...	7	48.88	...	...	27	36.6	R	22	...	38	43.31	...	58	46.5	R		
12	...	7	48.86	...	...	27	38.1	R	23	...	38	43.32	...	58	44.8	R		
13	...	7	48.89	...	...	27	37.8	R										
14	...	7	48.85	...	...	27	38.0	R										
148 <i>31 Geminorum ξ</i>																			
Feb. 6	...	6	38	43.28	...	76	58	45.4	M	15	...	38	43.37	...	58	45.0	R		
7	...	38	43.42	...	...	58	48.8	M	16	...	38	43.97	...	58	46.3	R		
15	...	38	43.37	...	...	58	45.0	R	17	...	38	43.89	...	58	45.2	R		
16	...	38	43.97	...	...	58	46.3	R	19	...	38	43.84	...	58	45.0	R		
17	...	38	43.89	...	...	58	45.2	R	20	...	38	43.37	...	58	47.2	R		
19	...	38	43.84	...	...	58	45.0	R	21	...	38	43.30	...	58	46.9	R		
20	...	38	43.37	...	...	58	47.2	R	22	...	38	43.31	...	58	46.5	R		
21	...	38	43.30	...	...	58	46.9	R	23	...	38	43.32	...	58	44.8	R		
22	...	38	43.31	...	...	58	46.5	R										
23	...	38	43.32	...	...	58	44.8	R										
153 <i>3 Canis Minoris β</i>																			
Feb. 9	...	7	20	43.35	...	81	28	33.3	R	15	...	20	43.85	...	28	31.2	R		
10	...	20	43.42	...	...	28	31.6	R	16	...	20	43.29	...	28	31.0	R		
12	...	20	43.33	...	...	28	30.7	R	17	...	20	43.36	...	28	33.7	R		
13	...	20	43.35	...	...	28	30.9	R	19	...	20	43.34	...	28	31.5	R		
14	...	20	43.35	...	...	28	31.2	R	20	...	20	43.36	...	28	32.7	R		
15	...	20	43.35	28	31.2	R											
16	...	20	43.29	28	31.0	R											
17	...	20	43.36	28	33.7	R											
19	...	20	43.34	28	31.5	R											
20	...	20	43.36	28	32.7	R											

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Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
154 <i>77 Geminorum κ</i>										159 <i>R. P. L. 53.—s.p.</i>									
Feb. 21	...	7	37	22.78	...	65	19	22.2	R	July 28	...	8	20	38.26	3	4	32	8.5	R
22	...		37	22.81	...		19	21.5	R	Aug. 11	...		20	38.49	3		32	7.7	R
23	...		37	22.95	...		19	21.6	R	13	...		20	38.26	3		32	9.4	R
26	...		37	22.93	...		19	21.0	R	Oct. 24	...		20	38.04	3		32	8.7	R
27	...		37	22.99	...		19	20.3	R	25	...		20	38.06	3		32	9.8	R
155 <i>W. B. E. VII. 1127.</i>										160 <i>Lalande 16797.</i>									
Feb. 6	9.0	7	38	32.16	...	81	9	24.5	M	Feb. 7	8.0	8	27	6.59	...	76	3	5.7	M
9	9.0		38	32.63	...		9	26.0	R	8	8.0		27	6.60	...		3	3.8	R
12	9.0		38	32.58	...		9	23.8	R	9	8.0		27	6.52	...		3	2.9	R
16	9.0		38	32.64	...		9	22.6	R	10	8.0		27	6.63	...		3	2.8	R
17	9.0		38	32.70	...		9	26.3	R	12	8.0		27	6.73	...		3	2.4	R
156 <i>ξ Argūs.</i>										161 <i>R. P. L. 55—s.p.</i>									
Feb. 14	...	7	44	22.48	...	114	33	57.6	R	Sep. 14	...	8	31	32.19	3	5	40	55.5	M
15	...		44	22.45	...		33	57.6	R	Oct. 18	...		31	31.69	3		40	55.3	R
16	...		44	22.40	...		33	57.9	R	22	...		31	31.87	3		40	56.8	R
17	...		44	22.49	...		33	59.6	R	162 <i>43 Cancri γ</i>									
19	...		44	22.55	...		33	59.3	R	Feb. 17	...	8	36	30.78	...	68	6	42.7	R
20	...		44	22.47	...		33	59.8	R	19	...		36	30.73	...		6	42.2	R
21	...		44	22.51	...		33	59.2	R	20	...		36	30.73	...		6	42.9	R
22	...		44	22.49	...		33	59.2	R	21	...		36	30.77	...		6	42.2	R
23	...		44	22.47	...		34	1.3	R	22	...		36	30.79	...		6	41.7	R
24	...		44	22.51	...		33	59.1	R	23	...		36	30.79	...		6	43.3	R
157 <i>R. P. L. 48—s.p.</i>										163 <i>R. P. L. 60—s.p.</i>									
Aug. 4	...	7	46	45.38	3	8	58	4.3	R	Sep. 28	...	8	50	44.02	3	5	21	10.9	M
13	...		46	45.11	3		58	3.5	R	164 <i>W. B. E. IX. 78.</i>									
14	...		46	44.28	3		58	3.2	R	Feb. 13	9.0	9	6	31.24	...	77	16	15.2	R
Sep. 4	...		46	44.31	3		58	3.5	M	14	9.0		6	31.23	...		16	15.8	R
14	...		46	45.19	3		58	4.2	M	15	9.0		6	31.16	...		16	16.3	R
158 <i>Lalande 16364.</i>										163 <i>R. P. L. 60—s.p.</i>									
Feb. 6	8.0	8	15	22.51	...	76	0	16.9	M	Feb. 13	9.0	9	6	31.24	...	77	16	15.2	R
7	8.0		15	22.48	...		0	18.8	M	14	9.0		6	31.23	...		16	15.8	R
8	8.0		15	22.58	...		0	18.7	R	15	9.0		6	31.16	...		16	16.3	R
9	8.0		15	22.46	...		0	19.4	R	16	9.0		6	31.32	...		16	15.4	R
10	8.0		15	22.56	...		0	17.2	R	17	9.0		6	31.37	...		16	16.2	R

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
165 <i>ι Argūs.</i>										170 <i>Lalande 19559.</i>									
Feb. 23	...	9	13	57.46	...	148	47	4.1	R	Feb. 19	7.0	9	53	48.59	...	109	47	50.6	R
26	...	13	57.37	...		47	6.3	R	20	7.0	53	48.61	...		47	50.7	R		
27	...	13	57.34	...		47	6.5	R	21	7.0	53	48.60	...		47	51.3	R		
28	...	13	57.32	...		47	4.7	R	22	7.0	53	48.58	...		47	51.1	R		
Mar. 1	...	13	57.42	...		47	5.8	R	23	7.0	53	48.61	...		47	51.0	R		
Apl. 3	...	13	57.62	...		47	6.9	M	171 <i>Lalande 19846.</i>										
4	...	13	57.54	...		47	8.9	M	Feb. 19	8.0	10	5	40.75	...	107	3	28.3	R	
5	...	13	57.48	...		47	7.7	M	20	8.0	5	40.87	...		3	29.4	R		
6	...	13	57.64	...		47	8.1	M	21	8.0	5	40.86	...		3	30.3	R		
7	...	13	57.43	...		47	7.2	M	22	8.0	5	40.84	...		3	29.9	R		
166 <i>Lalande 18405.</i>										172 <i>33 Ursæ Majoris λ</i>									
Feb. 13	8.0	9	14	35.45	...	77	32	42.6	R	Feb. 24	...	10	10	1.86	...	46	30	6.0	R
15	8.0	14	35.33	...		32	43.5	R	173 <i>W. B. E. X. 228.</i>										
17	8.0	14	35.56	...		32	44.5	R	Feb. 19	9.0	10	15	3.04	...	104	0	29.3	R	
19	8.0	14	35.47	...		32	44.9	R	21	9.0	15	2.99	...		0	30.1	R		
21	8.0	14	35.49	...		32	44.3	R	23	9.0	15	2.97	...		0	29.8	R		
167 <i>W. B. E. IX. 270.</i>										174 <i>Lalande 20089.</i>									
Feb. 14	9.0	9	14	55.62	...	77	15	40.4	R	Feb. 20	7.5	10	15	10.63	...	104	54	4.6	R
16	9.0	14	55.44	...		15	40.3	R	22	7.5	15	10.54	...		54	4.6	R		
20	9.0	14	55.34	...		15	40.5	R	24	7.5	15	10.54	...		54	4.0	R		
22	9.0	14	55.29	...		15	40.3	R	27	7.5	15	10.45	...		54	3.2	R		
24	9.0	14	55.41	...		15	39.4	R	Mar. 1	7.5	15	10.52	...		54	4.8	R		
168 <i>κ Argūs.</i>										175 <i>Anon.</i>									
Feb. 19	...	9	18	29.18	...	144	30	40.4	R	Apl. 10	9.7	10	16	1.97	...	84	34	4.8	M
20	...	18	29.18	...		30	41.6	R	11	9.7	16	1.94	...		84	3.1	M		
21	...	18	29.18	...		30	41.5	R	12	9.7	16	1.95	...		34	1.6	M		
22	...	18	29.19	...		30	41.4	R	13	9.7	16	2.03	...		34	1.4	M		
23	...	18	29.23	...		30	39.8	R	14	9.7	16	2.14	...		34	1.9	M		
169 <i>R. P. L. 62.—s.p.</i>																			
Sep. 14	...	9	21	24.92	3	2	21	31.7	M										
15	...	21	23.97	3	3	21	32.7	M											

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176 <i>Lalande 20205.</i>						181 <i>84 Leonis τ</i>					
Apl. 6	8.0	10 19 29.37	...	84.50 7.8	M	Feb. 26	...	11 21 55.23	...	86 20 57.7	R
7	...	19 29.29	...	50 9.2	M	27	...	21 55.26	...	20 57.7	R
9	8.0	19 29.48	...	50 6.8	M	28	...	21 55.27	...	20 57.3	R
16	8.0	19 29.28	...	50 8.7	M	Mar. 1	...	21 55.18	...	20 57.7	R
18	...	19 29.48	...	50 7.1	M	Apl. 3	...	21 55.16	...	29 58.3	M
177 <i>Lalande 20521.</i>						182 <i>Anon.</i>					
Feb. 19	6.7	10 30 28.02	...	90 58 33.4	R	4	...	21 55.20	...	20 58.7	M
21	6.7	30 28.07	...	58 34.1	R	5	...	21 55.21	...	29 58.0	M
23	6.7	30 28.05	...	58 34.2	R	6	...	21 55.17	...	30 0.0	M
26	6.7	30 28.07	...	58 34.1	R	7	...	21 55.18	...	29 59.8	M
28	6.7	30 28.08	...	58 33.8	R	14	...	21 55.26	...	29 59.8	M
178 <i>Yarnall 4420.</i>						183 <i>R. P. L. 82.</i>					
Feb. 20	7.0	10 30 42.68	...	101 36 8.5	R	Apl. 9	9.5	11 22 33.40	...	92 38 7.3	M
22	7.0	30 42.55	...	36 9.3	R	10	9.5	22 33.32	...	38 7.9	M
24	7.0	30 42.55	...	36 8.4	R	11	9.5	22 33.44	...	38 6.4	M
27	7.0	30 42.84	...	36 8.4	R	12	9.5	22 33.37	...	38 7.2	M
Mar. 1	7.0	30 42.90	...	36 8.4	R	13	9.5	22 33.36	...	38 8.2	M
179 <i>58 Leonis δ.</i>						184 <i>R. P. L. 82.—s.p.</i>					
Feb. 21	...	10 54 31.03	...	85 45 17.1	R	Feb. 28	...	11 26 39.06	3	3 44 15.9	R
22	...	54 31.03	...	45 17.1	R	Apl. 3	...	26 39.09	3	44 13.1	M
24	...	54 31.01	...	45 16.4	R	4	...	26 39.01	3	44 15.5	M
26	...	54 31.05	...	45 15.9	R	5	...	26 39.21	3	44 14.3	M
27	...	54 31.06	...	45 15.2	R	6	...	26 39.15	3	44 15.8	M
28	...	54 31.00	...	45 15.0	R	7	...	26 38.88	3	44 16.3	M
Mar. 1	...	54 31.02	...	45 15.5	R	9	...	26 39.83	3	44 15.7	M
Apl. 3	...	54 31.00	...	45 16.5	M	16	...	26 38.84	3	44 16.7	M
4	...	54 31.12	...	45 17.3	M	17	...	26 38.96	3	44 15.3	M
5	...	54 31.11	...	45 16.5	M	21	...	26 38.03	3	44 15.6	N
180 <i>70 Leonis θ</i>											
Feb. 26	...	11 8 5.91	...	73 55 52.2	R	Oct. 19	...	11 26 38.71	3	3 44 18.0	R
27	...	8 5.97	...	55 52.6	R	23	...	26 38.71	3	44 16.7	R
28	...	8 6.02	...	55 52.0	R	25	...	26 38.39	3	44 15.6	R
Mar. 1	...	8 5.97	...	55 50.8	R	Nov. 9	...	26 39.39	3	44 15.7	M
Apl. 3	...	8 5.99	...	55 52.4	M	12	...	26 38.20	3	44 15.1	M

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
184 <i>R. P. L. 87.—s.p.</i>										190 <i>43 Virginis δ</i>									
Nov. 13	...	11	53	32.11	3	2	21	15.2	M	Apl. 9	...	12	49	42.57	...	85	57	56.7	M
14	...	53	32.22	2		21	16.6	M	10	...	49	42.68	...		57	57.6	M		
Dec. 6	...	53	29.48	3		21	14.1	R	11	...	49	42.66	...		57	58.4	M		
7	...	53	29.93	3		21	14.6	R	12	...	49	42.71	...		57	57.6	M		
185 <i>8 Virginis π</i>										13	...	49	42.66	...		57	57.5	M	
Apl. 3	...	11	54	52.47	...	82	43	58.5	M	14	...	49	42.69	...		57	56.9	M	
4	...	54	52.41	...		44	0.7	M	16	...	49	42.62	...		57	57.3	M		
5	...	54	52.49	...		43	59.8	M	17	...	49	42.60	...		57	57.8	M		
6	...	54	52.53	...		44	1.8	M	18	...	49	42.64	...		57	58.7	M		
7	...	54	52.59	...		43	59.9	M	19	...	49	42.64	...		57	57.7	M		
9	...	54	52.69	...		43	59.6	M	20	...	49	42.68	...		57	56.4	M		
10	...	54	52.72	...		43	59.6	M	21	...	49	42.66	...		57	57.6	M		
11	...	54	52.68	...		43	59.5	M	23	...	49	42.65	...		57	56.0	N		
12	...	54	52.65	...		43	59.8	M	24	...	49	42.58	...		57	55.2	N		
13	...	54	52.66	...		44	1.3	M	25	...	49	42.67	...		57	56.9	M		
186 <i>R. P. L. 97.—s.p.</i>										26	...	49	42.58	...		57	55.1	M	
Nov. 12	...	12	37	35.28	3	5	42	53.3	M	28	...	49	42.55	...		57	58.3	M	
Dec. 6	...	37	33.56	3		42	51.8	R	30	...	49	42.64	...		57	57.6	M		
7	...	37	34.10	3		42	51.0	R	May 1	...	49	42.64	...		57	57.0	R		
187 <i>R. P. L. 98.—s.p.</i>										2	...	49	42.63	...		57	58.1	R	
Nov. 9	...	12	48	8.00	3	5	56	45.3	M	191 <i>47 Virginis ϵ</i>									
Dec. 29	...	48	7.96	3		56	44.8	R	Apl. 9	...	12	56	21.11	...	78	24	42.1	M	
188 <i>R. P. L. 99.—s.p.</i>										10	...	56	21.05	...		24	45.2	M	
Dec. 20	...	12	48	16.16	3	5	57	4.4	R	11	...	56	21.14	...		24	43.8	M	
22	...	48	16.23	3		57	4.8	R	12	...	56	21.12	...		24	42.4	M		
189 <i>77 Ursæ Majoris ϵ</i>										13	...	56	21.15	...		24	43.8	M	
Apl. 3	...	12	48	52.48	...	33	24	17.1	M	14	...	56	21.05	...		24	42.8	M	
4	...	48	52.51	...		24	17.3	M	16	...	56	21.18	...		24	43.3	M		
5	...	48	52.52	...		24	18.5	M	17	...	56	21.07	...		24	43.4	M		
6	...	48	52.86	...		24	17.0	M	18	...	56	21.11	...		24	44.0	M		
7	...	48	52.57	...		24	18.7	M	19	...	56	21.01	...		24	43.9	M		
										21	...	56	21.13	...		24	45.0	M	
										23	...	56	21.15	...		24	41.6	M	
										24	...	56	21.16	...		24	41.9	M	
										25	...	56	21.08	...		24	43.6	M	
										26	...	56	21.13	...		24	44.2	M	
										28	...	56	21.20	...		24	43.8	M	
										30	...	56	21.22	...		24	43.2	M	
										May 1	...	56	21.17	...		24	40.6	R	
										2	...	56	21.16	...		24	41.3	R	
										3	...	56	21.25	...		24	40.9	R	

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
200 <i>R. P. L. 108.—s.p.</i>										208 <i>Stone 7947.</i>									
Dec. 28	...	14	1	29.77	3	3	40	55.6	R	Apl. 20	...	14	29	31.84	...	157	41	41.2	M
										21	7.0		29	31.29	...		41	42.0	M
201 <i>Taylor 6609.</i>										209 <i>Taylor 6811.</i>									
Apl. 25	...	14	5	40.88	...	131	5	32.9	M	Apl. 25	7.0	14	30	6.62	...	132	36	6.2	M
26	...		5	40.72	...		5	34.2	M	26	7.0		30	6.65	...		36	6.9	M
30	...		5	40.71	...		5	32.9	M	30	...		30	6.60	...		36	5.1	M
May 1	...		5	40.98	...		5	31.5	R	May 1	7.0		30	6.56	...		36	5.0	R
2	...		5	40.98	...		5	32.0	R	2	7.0		30	6.55	...		36	4.0	R
202 <i>Stone 7816.—2nd.</i>										210 <i>Stone 7969.</i>									
Apl. 26	...	14	12	49.00	...	132	31	12.4	M	May 4	7.5	14	32	17.08	...	129	3	27.4	R
30	...		12	48.77	...		31	13.7	M	10	7.5		32	17.11	...		3	26.8	R
May 1	...		12	48.99	...		31	12.9	R	211 <i>Anon.</i>									
2	...		12	49.00	...		31	18.5	R	May 5	7.0	14	35	28.51	...	151	25	42.9	R
3	...		12	49.02	...		31	18.3	R	212 <i>Anon.</i>									
203 <i>Anon.</i>										213 <i>Taylor 6891.</i>									
Apl. 23	...	14	13	8.18	...	151	0	41.2	M	Apl. 25	7.0	14	39	56.14	...	133	3	53.0	M
204 <i>Stone 7826.</i>										26	7.0		39	56.22	...		3	49.7	M
Apl. 20	...	14	14	9.26	...	156	6	31.2	M	30	...		39	55.92	...		3	50.6	M
21	7.0		14	9.45	...		6	32.4	M	May 1	7.0		39	56.07	...		3	49.6	R
205 <i>Anon.</i>										2	7.0		39	56.03	...		3	51.0	R
May 2	7.0	14	21	19.48	...	150	19	33.0	R	214 <i>Anon.</i>									
4	7.0		21	19.59	...		19	32.5	R	May 8	7.5	14	42	47.95	...	126	54	24.0	R
7	7.0		21	19.75	...		19	32.0	R	9	7.5		42	47.95	...		54	24.2	R
206 <i>Anon.</i>										10	7.5		42	48.05	...		54	24.5	R
Apl. 21	8.7	14	21	30.59	...	150	17	36.0	M	11	7.5		42	48.05	...		54	24.2	R
24	8.7		21	30.46	...		17	38.6	M	12	7.5		42	48.20	...		54	24.9	R
May 3	9.0		21	30.84	...		17	32.5	R	215 <i>Taylor 6925.</i>									
5	9.0		21	30.44	...		17	31.8	R	Apl. 23	...	14	45	30.81	...	127	19	12.8	M
9	9.0		21	30.40	...		17	32.8	R	30	...		45	30.66	...		19	14.3	M
207 <i>Stone 7897.</i>										May 1	...		45	30.67	...		19	13.8	R
Apl. 19	...	14	23	7.98	...	129	57	14.7	M	2	...		45	30.66	...		19	14.8	R
20	...		23	7.98	...		57	14.3	M	3	...		45	30.80	...		19	14.4	R

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Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
216 <i>Anon.</i>									222 <i>Taylor 7001.</i>										
Apl. 19	...	14	47	5.45	...	181	33	52.9	M	Apl. 25	...	14	56	15.36	...	125	28	53.9	M
21	7.5	47	5.53	...		38	53.3	M	26	...	56	15.55	...		28	54.9	M		
24	7.5	47	5.47	...		33	52.6	M	28	...	56	15.60	...		28	53.3	M		
217 <i>Anon.</i>									223 <i>Taylor 7027.</i>										
Apl. 20	...	14	48	10.24	...	126	41	5.0	M	Apl. 19	...	14	58	53.17	...	125	48	33.1	M
25	7.5	48	10.31	...		41	5.8	M	224 <i>27 Libræ β</i>										
26	7.5	48	10.13	...		41	6.2	M	Apl. 30	...	15	10	42.72	...	98	57	4.0	M	
May 4	7.5	48	10.34	...		41	2.7	R	May 1	...	10	42.67	...		57	0.8	R		
218 <i>7 Ursæ Minoris β, Var. 1.</i>									225 <i>R. P. L. 114—s.p.</i>										
May 9	...	14	51	3.44	...	15	21	58.7	R	Jan. 15	...	15	15	21.11	3	2	19	12.0	M
10	...	51	3.42	...		21	58.6	R	16	...	15	18.75	3		19	6.9	M		
11	...	51	3.50	...		21	58.7	R	17	...	15	10.82	3		19	7.2	M		
12	...	51	3.29	...		21	56.7	R	226 <i>Anon.</i>										
14	...	51	3.42	...		21	56.2	R	May 23	9.0	15	37	31.17	...	155	8	44.0	R	
219 <i>Stone 8165.</i>									227 <i>24 Serpentis α</i>										
May 2	7.0	14	52	35.28	...	129	19	46.8	R	May 12	...	15	38	30.39	...	83	12	17.9	R
3	7.0	52	35.24	...		19	45.8	R	14	...	38	30.41	...		12	18.5	R		
4	7.0	52	35.16	...		19	45.7	R	15	...	38	30.39	...		12	18.8	R		
7	7.0	52	35.26	...		19	44.8	R	18	...	38	30.26	...		12	19.2	R		
8	7.0	52	35.15	...		19	44.7	R	19	...	38	30.34	...		12	18.1	R		
220 <i>R. P. L. 110.</i>									221 <i>Anon.</i>										
May 5	...	14	52	52.85	3	3	34	3.5	R	Apl. 19	...	14	53	29.66	...	131	49	19.8	M
<i>R. P. L. 110—s.p.</i>									222 <i>Anon.</i>										
Jun. 12	..	14	52	52.78	3	3	34	7.9	M	20	...	53	29.61	...		49	18.0	M	
16	...	52	54.46	4		34	7.1	M	21	8.0	53	29.58	...		49	19.5	M		
17	...	52	54.27	3		34	4.5	M											

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
May 25	...	15	38	30.29	...	88	12	19.7	R	231	<i>R. P. L. 117.</i>								
28	...	38	30.28	12	18.8	R	May 18		...	16	3	14.87	3	6	2	43.2	R
31	...	38	30.31	12	18.7	R	19		...	3	14.88	3	2	43.0	R		
June 1	...	38	30.34	12	18.9	R	23		...	3	14.73	3	2	44.4	R		
2	...	38	30.30	12	17.5	R	<i>R. P. L. 117—s.p.</i>										
8	...	38	30.29	12	18.7	M	Jan. 1		...	16	3	13.67	3	6	2	44.5	R
228 <i>37 Serpentis e</i>										4	...	3	15.31	3	2	44.1	R		
May 15	...	15	44	59.17	...	85	10	6.7	R	5	...	3	15.30	3	2	43.2	R		
18	...	44	59.02	...	...	10	8.2	R	12	...	3	15.27	3	2	41.2	M	
19	...	44	59.01	...	...	10	7.9	R	15	...	3	14.60	3	2	46.0	M	
21	...	44	59.04	...	...	10	8.1	R	16	...	3	14.24	3	2	43.2	M	
22	...	44	59.00	...	...	10	7.6	R	17	...	3	14.56	3	2	37.1	M	
23	...	44	59.01	...	...	10	7.6	R	19	...	3	14.48	3	2	43.8	M	
24	...	44	59.01	...	...	10	8.0	R	24	...	3	14.83	3	2	40.1	M	
25	...	44	59.04	...	...	10	8.8	R	25	...	3	14.42	3	2	41.6	M	
28	...	44	59.05	10	7.9	R	232 <i>Anon.</i>										
29	...	44	58.99	10	6.6	R	May 10	7.0	16	5	1.46	...	133	46	12.6	R	
229 <i>Anon.</i>										14	7.0	5	1.63	...	46	11.9	R		
June 2	...	15	46	27.92	...	130	46	29.0	R	233 <i>Anon.</i>									
8	...	46	27.85	...	4	46	30.0	M	May 11	8.5	16	6	5.40	...	125	29	44.8	R	
20	...	46	27.79	...	...	46	29.3	M	12	8.5	6	5.47	...	20	45.2	R	
26	...	46	28.05	46	31.6	M	234 <i>Stone 8832.</i>										
230 <i>R. P. L. 116.</i>										May 5	...	16	7	57.02	...	135	5	30.8	R
May 5	...	16	0	47.61	3	4	21	53.3	R	7	...	7	57.01	4	5	30.6	R		
7	...	0	48.26	3	...	21	53.6	R	235 <i>Anon.</i>										
8	...	0	47.97	3	...	21	53.2	R	May 18	8.0	16	8	14.40	...	135	14	55.5	R	
9	...	0	47.70	3	...	21	53.2	R	19	8.0	8	14.38	...	14	55.7	R			
12	...	0	47.85	3	...	21	53.9	R	21	8.0	8	14.32	...	14	55.4	R			
<i>R. P. L. 116—s.p.</i>										22	8.0	8	14.23	4	14	55.7	R		
Jan. 18	...	16	0	47.16	3	4	21	53.3	M	236 <i>Stone 8853.</i>									
20	...	0	47.07	3	...	21	54.9	M	May 8	7.0	16	10	37.37	...	124	37	29.3	R	
22	...	0	47.40	3	...	21	56.9	M	9	7.0	10	37.43	...	37	29.4	R			
27	...	0	47.08	3	...	21	53.4	M	10	7.0	10	37.61	...	37	29.3	R			
29	...	0	47.32	3	...	21	55.8	M											
30	...	0	47.26	3	...	21	54.0	M											

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Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
237 <i>19 Ursæ Minoris.</i>									243 <i>Anon.</i>										
May 15	...	16	14	9.98	...	13	49	41.2	R	May 5	7.5	16	23	33.69	...	128	44	44.1	
18	...	14	10.05	...		49	43.3		R	244 <i>27 Herculis β</i>									
238 <i>Stone 8892.</i>									May 24 ... 16 25 11.32 ... 68 15 19.0										
May 5	6.5	16	14	44.75	...	152	51	1.7	R	245 <i>Stone 8976.</i>									
9	6.3	14	44.48	5		51	2.1	R	May 10	7.0	16	25	25.41	...	128	16	48.1		
10	6.3	14	44.57	...		51	1.2	R	18	7.0	25	25.31	...	16	50.5				
11	6.3	14	44.61	...		51	0.5	R	19	7.0	25	25.24	...	16	50.3				
239 <i>20 Herculis γ</i>									246 <i>Anon.</i>										
May 23	...	16	16	45.47	...	70	34	14.4	R	May 14	9.5	16	29	2.64	...	125	32	35.8	
25	...	16	45.48	...		34	16.0	R	15	9.5	29	2.62	...	32	36.2				
28	...	16	45.48	...		34	15.6	R	25	9.5	29	2.64	...	32	35.9				
29	...	16	45.53	...		34	15.0	R	247 <i>η¹ Trianguli Australis.</i>										
30	...	16	45.46	...		34	14.7	R	May 11	...	16	29	19.55	...	158	3	35.1		
31	...	16	45.45	...		34	15.4	R	12	...	29	19.57	...	8	37.0				
June 1	...	16	45.48	...		34	15.7	R	248 <i>Stone 9014.</i>										
2	...	16	45.50	...		34	14.2	R	May 5	7.0	16	30	33.44	...	128	54	48.0		
8	...	16	45.60	...		34	16.1	M	249 <i>13 Ophiuchi ζ</i>										
11	...	16	45.48	...		34	16.2	M	May 18	...	16	30	42.98	...	100	19	43.6		
240 <i>Anon.</i>									19 ... 30 42.95 ... 19 44.0										
May 12	8.5	16	18	6.06	...	130	57	19.0	R	21	...	30	42.96	...	19	44.0			
14	8.5	18	6.13	...		57	18.6	R	22	...	30	43.03	...	19	44.2				
19	8.5	18	6.20	...		57	20.0	R	23	...	30	43.07	...	19	44.4				
24	8.5	18	6.16	...		57	19.8	R	24	...	30	43.00	...	19	44.2				
241 <i>21 Ursæ Minoris η</i>									28 ... 30 43.02 ... 19 43.9										
May 7	...	16	20	56.06	...	13	58	29.0	R	29	...	30	43.00	...	19	44.1			
8	...	20	56.08	...		58	29.5	R	30	...	30	42.98	...	19	44.2				
21	...	20	56.04	...		58	32.2	R	81	...	30	42.98	...	19	44.6				
23	...	20	56.21	...		58	32.7	R	June 2	...	30	43.08	...	19	42.3				
242 <i>Anon.</i>									7 ... 30 42.99 ... 19 44.0										
May 11	8.0	16	23	32.65	...	136	25	16.1	R	8	...	30	43.00	...	19	44.4			
12	8.0	23	32.69	...		25	17.0	R	11	...	30	43.05	...	19	43.8				
14	8.0	23	32.67	...		25	17.1	R	14	...	30	42.94	...	19	43.5				

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		h.	m.		s.	°				'	''		h.	m.		s.	°	'	''
June 15	...	16	30	43.03	...	100	19	42.6	M	257 Taylor 7793.									
19	...	30	43.02	...	19	44.9	M	May 8	7.0	16	44	42.16	...	127	23	47.9	R		
20	...	30	43.02	...	19	44.5	M	258 Anon.											
22	...	30	42.90	...	19	44.4	M	May 15	9.5	16	49	0.75	...	132	12	58.1	R		
26	...	30	42.98	...	19	44.6	M	18	9.5	49	0.76	...	12	58.0	R				
250 Lacaille 6881.								259 Anon.											
May 9	...	16	31	31.80	...	157	12	5.6	R	May 5	8.5	16	50	20.26	...	128	26	16.6	R
10	...	31	31.80	...	12	4.3	R	9	8.5	50	20.15	...	26	18.3	R				
251 Anon.								11	8.5	50	20.12	...	26	17.6	R				
May 14	7.5	16	36	1.13	...	128	6	36.2	R	14	8.5	50	20.17	...	26	19.0	R		
15	7.5	36	1.11	...	6	36.4	R	260 Anon.											
18	7.5	36	1.18	...	6	36.2	R	May 14	8.0	16	56	52.99	...	129	52	39.5	R		
19	7.5	36	1.17	...	6	36.2	R	15	8.0	56	52.92	...	52	39.7	R				
21	7.5	36	1.10	...	6	36.5	R	18	8.0	56	52.88	...	52	39.8	R				
252 Anon.								19	8.0	56	52.87	...	52	39.1	R				
May 8	8.0	16	38	51.76	...	125	34	31.5	R	21	8.0	56	52.92	...	52	40.8	R		
9	8.0	38	51.78	...	34	35.8	R	261 22 Ursæ Minoris ε											
253 Anon.								May 12	...	16	58	0.05	4	7	46	16.6	R		
May 25	9.5	16	41	15.36	...	126	18	19.8	R	June 15	...	57	59.69	3	46	17.1	M		
28	9.5	41	15.36	...	18	21.5	R	262 Anon.											
29	9.5	41	15.33	...	18	21.1	R	May 5	9.0	16	59	23.33	...	132	35	35.5	R		
30	9.5	41	15.31	...	18	22.2	R	263 R. P. L. 118.											
254 Anon.								Aug. 11	...	17	1	59.60	3	5	8	35.5	R		
May 10	7.0	16	41	37.68	...	182	53	52.9	R	13	...	1	59.25	3	8	33.9	R		
255 Anon.								14	...	1	59.65	3	8	34.6	R				
May 11	8.0	16	42	29.39	...	137	50	30.5	R	16	...	1	58.47	3	8	35.3	R		
12	8.0	42	29.48	...	50	30.8	R	18	...	1	58.52	3	8	36.1	R				
14	8.0	42	29.61	...	50	31.5	R	264 Anon.											
256 Anon.								265 Anon.											
May 19	7.5	16	44	2.03	...	129	2	39.3	R										
21	7.5	44	1.92	...	2	39.8	R												
22	7.5	44	1.88	...	2	39.4	R												
23	7.5	44	2.13	...	2	39.9	R												
24	7.5	44	2.14	...	2	38.8	R												

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
R. P. L. 118—s.p.										July 28	...	17	3	40'00	...	105	34	42'5	R
Jan. 2	...	17	2	0'00	3	5	8	34'8	R	30	...	3	40'18	...	34	43'5	R		
3	...	2	0'22	3	8	34'1	R	31	...	3	40'12	...	34	43'3	R				
8	...	1	59'89	3	8	34'0	M	Aug. 2	...	3	40'11	...	34	42'9	R				
9	...	2	0'23	3	8	34'4	M	3	...	3	40'09	...	34	42'4	R				
19	...	1	59'48	3	8	36'5	M	4	...	3	40'11	...	34	43'6	R				
24	...	1	59'71	3	8	32'3	M	267 Anon.											
29	...	1	59'94	3	8	37'9	M	May 12	...	17	6	15'90	...	131	19	56'9	R		
Feb. 1	...	1	59'39	3	8	36'0	R	268 Stone 9389.											
2	...	1	59'18	3	8	37'8	R	May 14	...	17	8	59'79	...	120	17	47'7	R		
7	...	2	0'03	3	8	35'9	M	15	...	8	59'80	...	17	48'2	R				
264 Stone 9338.										269 Anon.									
May 21	7'0	17	2	48'40	...	181	17	33'9	R	Aug. 9	8'0	17	9	34'36	...	128	31	56'1	R
22	7'0	2	48'33	...	17	24'2	R	10	8'0	9	34'35	...	31	56'1	R				
24	7'0	2	48'34	...	17	24'5	R	11	8'0	9	34'20	...	31	54'7	R				
25	7'0	2	48'36	...	17	24'2	R	14	8'0	9	34'20	...	31	55'3	R				
29	7'0	2	48'14	...	17	22'4	R	16	9'0	9	34'22	...	31	52'5	R				
265 Anon.										270 Anon.									
May 15	7'5	17	2	51'11	...	131	32	55'1	R	June 19	9'0	17	10	16'79	...	123	20	56'4	M
30	7'5	2	50'91	...	32	56'9	R	20	9'0	10	16'72	...	20	55'8	M				
31	7'5	2	50'87	...	32	57'4	R	July 3	9'0	10	16'60	...	20	55'0	R				
June 1	7'5	2	50'85	...	32	57'0	R	4	9'0	10	16'58	...	20	55'9	R				
2	7'5	2	50'85	...	32	53'9	R	17	9'0	10	16'73	...	20	53'5	R				
266 35 Ophiuchi η										271 Anon.									
June 7	...	17	3	40'08	...	105	34	41'0	R	July 28	8'0	17	10	47'27	...	125	57	30'0	R
9	...	3	40'06	...	34	42'6	M	30	8'0	10	47'21	...	57	33'7	R				
11	...	3	39'95	...	34	45'2	M	31	8'0	10	47'14	...	57	32'5	R				
14	...	3	40'13	...	34	45'9	M	Aug. 2	8'0	10	47'18	...	57	31'5	R				
19	...	3	40'03	...	34	45'0	M	272 Stone 9428.											
20	...	3	40'02	...	34	48'7	M	May 18	6'0	17	12	18'41	...	155	35	2'3	R		
22	...	3	39'95	...	34	44'8	M												
26	...	3	40'09	...	34	43'9	M												
July 3	...	3	40'11	...	34	42'4	R												
4	...	3	40'10	...	34	43'1	R												
17	...	3	40'08	...	34	44'2	R												
18	...	3	40'02	...	34	43'0	R												
20	...	3	40'02	...	34	42'6	R												
24	...	3	40'06	...	34	42'6	R												

34'

34'

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
273 <i>Anon.</i>										279 <i>49 Ophiuchi σ</i>									
June 7	9·0	17	18	17·89	...	129	22	49·1	R	May 22	...	17	20	42·60	...	85	45	24·8	R
8	9·0		18	18·14	...		22	47·0	M	24	...		20	42·60	...		45	24·9	R
9	9·0		18	18·05	...		22	47·8	M	25	...		20	42·63	...		45	24·7	R
14	9·0		18	18·06	...		22	50·9	M	29	...		20	42·55	...		45	24·6	R
274 <i>Anon.</i>										June 30									
May 19	7·0	17	14	38·81	...	131	58	17·5	R	31	...		20	42·60	...		45	25·2	R
22	7·5		14	38·72	...		58	17·8	R	June 1	...		20	42·62	...		45	24·9	R
25	7·5		14	38·77	...		58	17·5	R	2	...		20	42·55	...		45	25·5	R
28	7·5		14	38·75	...		58	18·5	R	9	...		20	42·52	...		45	24·8	R
275 <i>Stone 9448.—2nd.</i>										June 19									
May 15	7·0	17	14	41·15	...	123	5	8·7	R	19	...		20	42·54	...		45	25·1	M
21	7·0		14	41·18	...		5	9·2	R	28	...		20	42·55	...		45	26·5	M
23	7·0		14	41·37	...		5	9·0	R	280 <i>Anon.</i>									
24	7·0		14	41·41	...		5	7·8	R	July 28	8·0	17	21	46·30	...	127	10	44·1	R
276 <i>Anon.</i>										30									
Aug. 4	8·5	17	15	31·06	...	145	52	52·0	R	30	8·0		21	46·19	...		10	44·9	R
8	8·5		15	30·97	...		52	54·8	R	31	8·0		21	46·12	...		10	47·0	R
10	8·5		15	31·09	...		52	51·5	R	Aug. 2	8·0		21	46·15	...		10	45·4	R
11	8·5		15	31·05	...		52	51·4	R	8	8·0		21	46·19	...		10	45·0	R
14	8·5		15	30·96	...		52	50·6	R	281 <i>α Arct.</i>									
277 <i>Anon.</i>										June 20									
June 14	9·0	17	17	18·91	5	138	28	53·3	M	...	17	22	47·85	5	139	46	53·4	M	
15	9·5		17	18·64	...		28	54·8	M	July 20	...		22	47·83	...		46	53·4	R
20	9·0		17	18·61	...		28	54·5	M	Aug. 10	...		22	47·67	...		46	53·0	R
July 3	9·0		17	18·89	...		28	53·8	R	11	...		22	47·76	...		46	52·4	R
4	9·0		17	18·79	...		28	55·1	R	14	...		22	47·60	...		46	52·8	R
278 <i>Stone 9479.</i>										282 <i>34 Scorpii υ</i>									
June 11	...	17	17	27·71	...	138	30	21·9	M	Aug. 13	...	17	22	48·40	...	127	12	4·1	R
22	...		17	27·44	...		30	21·7	M	16	...		22	48·28	...		12	3·4	R
July 18	7·0		17	27·67	...		30	22·7	R	18	...		22	48·23	...		12	3·8	R
20	7·0		17	27·66	...		30	22·4	R	283 <i>Stone 9566.</i>									
24	7·0		17	27·68	4		30	21·4	R	June 22	7·0	17	26	10·30	...	130	26	48·9	M
279 <i>Anon.</i>										July 3									
June 11	...	17	17	27·71	...	138	30	21·9	M	4	7·0		26	10·39	...		26	46·9	R
22	...		17	27·44	...		30	21·7	M	17	7·0		26	10·68	...		26	47·6	R
July 18	7·0		17	27·67	...		30	22·7	R	18	7·0		26	10·85	...		26	47·4	R
20	7·0		17	27·66	...		30	22·4	R	284 <i>Anon.</i>									
24	7·0		17	27·68	4		30	21·4	R	June 22	7·0	17	26	10·30	...	130	26	48·9	M

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
284 <i>Anon.</i>									R. P. L. 120—s.p.										
May 28	7.0	17	28	7.56	...	131	29	10.4	R	Jan. 18	...	17	31	46.53	8	5	17	27.0	M
285 <i>Stone 9578.</i>									19 ... 31 47.29 3 17 25.6 M 27 ... 31 46.77 3 17 24.2 M 30 ... 31 46.41 3 17 27.9 M 31 ... 31 46.51 3 17 26.1 M Feb. 8 ... 31 46.63 8 17 27.3 R 9 ... 31 46.43 3 17 25.2 R 10 ... 31 46.70 3 17 25.1 R 12 ... 31 46.48 3 17 26.3 R 14 ... 31 46.60 3 17 25.2 R										
Aug. 9	7.0	17	28	9.84	...	146	44	38.7	R										
10	7.0		28	9.86	...		44	38.5	R										
Sep. 4	...		28	9.71	...		44	38.8	M										
286 <i>Brisbane 6132.</i>																			
May 21	8.0	17	28	38.23	...	135	4	47.9	R										
287 <i>θ Scorpii.</i>																			
June 2	...	17	28	54.64	...	132	55	14.3	R										
8	...		28	54.63	...		55	17.7	M										
9	...		28	54.56	...		55	17.8	M										
11	...		28	54.75	5		55	18.1	M										
15	...		28	54.55	...		55	16.7	M										
288 <i>Anon.</i>																			
July 28	8.0	17	29	9.18	...	128	42	30.9	R										
30	8.0		29	8.89	...		42	31.9	R										
31	8.0		29	8.83	...		42	31.6	R										
Aug. 2	8.0		29	8.95	...		42	30.9	R										
4	8.0		29	8.78	...		42	30.8	R										
289 <i>Anon.</i>																			
May 22	7.0	17	31	44.52	...	128	17	58.1	R										
23	7.0		31	44.59	...		17	57.6	R										
24	7.0		31	44.68	...		17	57.9	R										
25	7.0		31	44.64	...		17	58.1	R										
29	7.0		31	44.45	...		17	57.5	R										
290 <i>R. P. L. 120.</i>																			
May 18	...	17	31	46.58	3	5	17	27.0	R										
19	...		31	46.69	3		17	24.7	R										
28	...		31	46.67	3		17	24.6	R										
June 1	...		31	46.38	3		17	26.1	R										
Aug. 25	...		31	46.63	3		17	26.6	R										
									291 <i>Anon.</i>										
									June 20 7.0 17 32 56.20 ... 130 1 35.4 M July 4 7.0 32 56.02 ... 1 35.6 R 18 7.0 32 56.17 ... 1 36.5 R 20 7.0 32 56.11 ... 1 36.1 R 24 7.0 32 56.28 4 1 35.6 R										
									292 <i>Brisbane 6160.</i>										
									May 21 8.0 17 33 20.24 ... 134 48 12.5 R										
									293 <i>Anon.</i>										
									Aug. 9 7.5 17 35 28.26 ... 144 4 40.3 R 10 7.5 35 28.27 ... 4 40.7 R 11 7.5 35 28.27 ... 4 40.2 R 14 7.5 35 28.14 ... 4 40.3 R 18 7.5 35 28.30 ... 4 39.3 R										
									294 <i>60 Ophiuchi β</i>										
									May 18 ... 17 37 41.55 ... 85 22 56.5 R 19 ... 37 41.52 ... 22 56.7 R 21 ... 37 41.47 ... 22 57.0 R 23 ... 37 41.48 ... 22 57.7 R 30 ... 37 41.51 ... 22 57.0 R June 7 ... 37 41.47 ... 22 55.6 R 9 ... 37 41.52 ... 22 56.3 M 14 ... 37 41.43 ... 22 58.2 M 15 ... 37 41.36 ... 22 56.2 M 22 ... 37 41.54 ... 22 58.4 M 26 ... 37 41.45 ... 22 58.8 M										

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
July 3	...	17	37	41.42	...	85	22	56.7	R	300	<i>Anon.</i>									
4	...		37	41.44	...		22	57.8	R		May 28	9.5	17	45	11.77	...	131	58	3.5	R
17	...		37	41.50	...		22	59.9	R		80	9.5		45	11.64	...		58	3.7	R
18	...		37	41.45	...		22	57.8	R		June 14	9.5		45	11.80	5		58	1.2	M
20	...		37	41.49	...		22	57.0	R		15	9.5		45	11.88	...		58	3.5	M
24	...		37	41.53	...		22	55.8	R		22	...		45	11.80	...		58	2.7	M
28	...		37	41.88	...		22	56.8	R		301 <i>Anon.</i>									
30	...		37	41.49	...		22	58.5	R		July 28	9.0	17	45	40.00	...	139	18	58.5	R
31	...		37	41.43	...		22	58.9	R		30	9.0		45	39.84	...		13	59.8	R
295 <i>Anon.</i>											31	9.0		45	39.77	3		14	0.6	R
June 8	8.5	17	39	34.85	...	123	18	49.3	M	Aug. 11	9.0		45	40.01	...		13	59.1	R	
11	...		39	34.85	5		18	48.8	M	13	9.0		45	39.93	...		13	58.7	R	
Aug. 2	8.5		39	34.58	...		18	47.9	R	302 <i>Anon.</i>										
4	8.5		39	34.61	...		18	48.0	R	May 18	8.0	17	50	28.62	...	151	21	14.1	R	
296 <i>Anon.</i>										19	8.0		50	28.57	...		21	14.2	R	
June 20	8.5	17	40	23.50	4	123	18	52.4	M	23	8.0		50	28.62	...		21	13.5	R	
Aug. 8	8.5		40	23.42	...		18	56.4	R	303 <i>Anon.</i>										
9	8.5		40	23.31	...		18	53.3	R	June 14	8.0	17	51	51.27	...	129	3	3.9	M	
10	8.5		40	23.23	...		18	52.8	R	15	8.0		51	51.29	...		3	3.1	M	
11	8.5		40	23.26	...		18	52.2	R	22	7.0		51	51.14	...		3	4.0	M	
297 <i>Anon.</i>										July 3	8.0		51	51.37	...		3	2.9	R	
Aug. 18	8.0	17	42	51.21	...	143	28	18.3	R	4	8.0		51	51.28	...		3	4.1	R	
Sep. 4	...		42	51.34	...		28	17.2	M	304 <i>Anon.</i>										
298 <i>Anon.</i>										May 22	7.0	17	52	15.64	...	127	23	50.8	R	
May 19	7.5	17	44	10.64	...	129	6	59.0	R	24	7.0		52	15.87	...		23	50.9	R	
22	7.5		44	10.54	...		6	58.8	R	25	7.0		52	15.86	...		23	51.0	R	
23	7.5		44	10.31	...		6	59.5	R	28	7.0		52	15.74	...		23	50.9	R	
24	7.5		44	10.70	...		6	58.0	R	39	7.0		52	15.64	...		23	51.3	R	
25	7.5		44	10.65	...		6	59.9	R	305 <i>Anon.</i>										
299 <i>Taylor 8243.</i>										May 30	9.0	17	52	34.35	...	137	2	29.2	R	
May 29	...	17	44	30.77	...	131	57	30.3	R	June 1	9.0		52	34.27	...		2	29.0	R	
June 1	...		44	30.68	...		57	30.1	R	7	9.0		52	34.02	...		2	27.6	R	
7	...		44	30.47	...		57	31.1	R	8	9.0		52	34.27	...		2	30.6	M	
9	...		44	30.73	...		57	26.8	M	11	...		52	34.56	...		2	29.6	M	
11	...		44	31.07	...		57	30.9	M											

Separate Results of Madras Meridian Circle Observations in 1883.

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
306		<i>O. A. S. 17446.</i>								312		<i>Anon.</i>							
Aug. 8	...	17	52	45.65	...	119	53	1.3	R	May 18	...	17	59	22.53	...	128	13	9.7	R
9	...	52	45.56	...		52	58.0		R	23	...	59	22.59	...		13	8.5		R
10	...	52	45.50	...		52	58.7		R	24	...	59	22.56	...		13	7.2		R
11	...	52	45.48	...		52	57.4		R	25	...	59	22.54	...		13	8.6		R
13	...	52	45.59	...		52	57.3		R	28	...	59	22.64	...		13	9.3		R
307		<i>O. A. S. 17452.</i>								313		<i>Anon.</i>							
July 24	...	17	52	58.59	...	119	48	52.3	R	Aug. 8	8.0	17	59	31.89	...	129	31	45.5	R
28	...	52	58.44	...		48	54.3		R	9	8.0	59	31.73	...		31	42.1		R
30	...	52	58.39	...		48	55.5		R	11	8.0	59	31.50	...		31	42.3		R
Aug. 2	...	52	58.42	...		48	53.0		R	13	8.0	59	31.65	...		31	42.6		R
3	...	52	58.45	...	4	48	54.1		R	14	8.0	59	31.66	...		31	42.2		R
308		<i>Anon.</i>								314		<i>Anon.</i>							
May 19	8.9	17	56	36.54	...	128	56	59.8	R	Aug. 14	7.5	18	3	21.93	...	128	12	57.1	R
										16	7.5	3	22.10	...		12	57.6		R
										18	7.5	3	22.16	...		12	57.9		R
										25	7.5	3	22.20	...		12	57.9		R
										Nov. 15	...	3	22.23	...		12	58.7		M
309		<i>Stone 9840.</i>								315		<i>Anon.</i>							
June 1	7.0	17	57	33.57	...	127	28	31.7	R	June 15	9.7	18	5	50.73	...	133	7	10.8	M
15	7.0	57	33.59	...		28	29.6		M										
20	...	57	33.64	...	5	28	30.8		M										
July 4	7.0	57	33.74	...		28	31.6		R										
28	7.0	57	33.59	...		28	30.9		R										
310		<i>Anon.</i>								316		<i>Stone 9922.</i>							
May 29	7.5	17	58	5.20	...	127	26	19.7	R	May 19	...	18	5	52.94	...	133	10	51.8	R
June 7	7.5	58	5.25	...		26	19.2		R	22	...	5	52.82	...		10	51.4		R
9	...	58	5.53	...		26	21.3		M	23	...	5	52.84	...		10	51.3		R
14	7.0	58	5.34	...		26	21.0		M	24	...	5	52.77	...		10	51.6		R
23	7.5	58	5.31	...		26	19.8		M	July 4	...	5	52.88	...		10	52.8		R
										18	...	5	52.99	...		10	52.3		R
										28	...	5	53.00	...		10	51.8		R
311		<i>Stone 9849.</i>								317		<i>Stone 9924.</i>							
May 30	7.0	17	58	13.11	...	127	30	7.1	R	May 25	7.5	18	6	0.83	...	131	56	15.1	R
June 11	...	58	13.37	...	5	30	7.4		M	28	7.0	6	0.80	...		56	16.1		R
July 30	7.0	58	13.28	...		30	7.5		R	29	7.0	6	0.81	...		56	15.7		R
31	7.0	58	13.26	...		30	7.3		R	30	7.0	6	0.82	...		56	16.7		R
Aug. 2	7.0	58	13.18	...		30	6.7		R	June 1	7.0	6	0.76	...		56	16.2		R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
318 <i>Anon.</i>										325 <i>58 Serpentis η</i>									
July 30	7.5	18	6	41.76	...	126	55	43.9	R	June 11	...	18	15	15.88	...	92	55	42.6	M
Aug. 2	7.5	6	41.54	...		55	44.7	R	15	...	15	15.86	...		55	41.4	M		
8	7.5	6	41.85	...		55	47.7	R	20	...	15	15.48	...		55	40.5	M		
9	7.5	6	41.70	...		55	44.1	R	22	...	15	15.46	...		55	42.5	M		
10	7.5	6	41.65	...		55	44.8	R	July 3	...	15	15.82	...		55	40.5	R		
319 <i>Anon.</i>										4									
June 8	9.0	18	9	5.03	5	131	16	18.0	M	17	...	15	15.28	4	55	40.4	R		
22	9.0	9	5.01	...		16	18.6	M	18	...	15	15.28	...		55	41.9	R		
Aug. 11	8.5	9	4.78	...		16	17.8	R	20	...	15	15.29	...		55	41.7	R		
13	8.5	9	4.98	...		16	15.9	R	24	...	15	15.32	...		55	41.2	R		
320 <i>23 Ursæ Minoris δ</i>										28									
June 7	...	18	10	3.96	3	3	23	24.2	R	28	...	15	15.31	...		55	42.5	R	
Aug. 14	...	10	2.43	3		23	22.8	R	30	...	15	15.28	...		55	40.2	R		
321 <i>Anon.</i>										31									
May 23	8.0	18	10	21.14	...	126	23	38.6	R	Aug. 2	...	15	15.26	...		55	41.1	R	
322 <i>Anon.</i>										3									
May 28	8.0	18	13	25.60	...	136	5	3.5	R	3	...	15	15.25	...		55	41.5	R	
29	8.0	13	25.67	...		5	3.8	R	4	...	15	15.23	...		55	42.1	R		
30	8.0	13	25.60	...		5	4.1	R	8	...	15	15.23	...		55	40.2	R		
June 1	8.0	13	25.52	...		5	8.1	R	9	...	15	15.28	...		55	41.6	R		
9	...	13	25.72	...		5	0.6	M	10	...	15	15.27	...		55	41.6	R		
323 <i>Anon.</i>										11									
May 25	8.0	18	14	12.57	...	127	43	33.4	R	326 <i>Anon.</i>									
324 <i>Taylor 8452.</i>										Aug. 16									
Aug. 18	...	18	14	14.57	...	128	42	29.2	R	Aug. 16	7.0	18	15	22.20	...	128	47	32.3	R
25	...	14	14.42	...		42	29.3	R	Sep. 5	...	15	22.38	6	47	28.0	M			
Sep. 4	...	14	14.50	...		42	28.4	M	15	...	15	22.25	...	47	30.2	M			
11	...	14	14.43	...		42	29.5	M	17	...	15	22.39	6	47	28.8	M			
13	...	14	14.73	3		42	29.0	M	327 <i>Anon.</i>										
325 <i>58 Serpentis η</i>										May 19									
328 <i>Anon.</i>										7.0									
May 18	8.0	18	16	32.65	...	127	17	6.3	R	May 19	7.0	18	15	42.50	...	138	50	53.0	R
329 <i>22 Sagittarii λ</i>										22									
June 8	...	18	20	44.96	...	115	29	3.1	M	22	7.0	15	42.38	...	50	53.4	R		
July 4	...	20	45.08	...		29	8.0	R	23	7.0	15	42.38	...	50	53.0	R			
18	...	20	45.07	...		29	6.7	R	24	7.0	15	42.29	...	50	53.2	R			

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.																			
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"																				
July 20	...	18	20	45.00	...	115	29	5.2	R	Aug. 14	8.5	18	30	45.30	...	127	5	57.3	R																			
24	...	20	44.80	29	4.9	R	16	8.5	30	45.48	5	57.2	R																					
28	...	20	45.03	29	6.1	R	18	8.5	30	45.43	5	57.5	R																					
30	...	20	44.91	29	5.6	R	25	8.5	30	45.38	5	57.1	R																					
Aug. 2	...	20	44.94	29	6.9	R	334 <i>Anon.</i>																													
3	...	20	44.97	...	...	29	6.5	R																												
4	...	20	44.93	...	...	29	5.2	R																												
8	...	20	44.95	...	...	29	7.8	R																												
9	...	20	45.00	...	...	29	4.5	R																												
10	...	20	45.02	...	...	29	4.6	R																												
11	...	20	44.98	...	...	29	6.1	R																												
13	...	20	44.98	...	...	29	4.8	R																												
14	...	20	44.97	...	...	29	7.2	R																												
16	...	20	45.00	...	...	29	6.5	R																												
18	...	20	45.00	29	7.3	R	335 <i>Anon.</i>																													
25	...	20	44.90	...	...	29	7.1	R																												
28	...	20	44.95	...	...	29	6.1	R																												
330 <i>Anon.</i>																			June 7	7.5	18	31	24.82	...	127	23	13.8	R										
May 23	9.5	18	22	46.00	...	129	38	40.7											R	8	...	31	25.07	6	23	14.0	M											
28	9.5	22	46.28	38	50.8	R											9	7.5	31	24.78	28	12.1	M											
29	9.5	22	45.98	38	50.7	R											14	7.5	31	24.80	23	15.0	M											
30	9.5	22	45.97	38	51.3	R											336 <i>Stone 10154.</i>																			
June 1	9.5	22	45.89	...	...	38	51.0	R																												
331 <i>Anon.</i>																													May 18	...	18	32	12.34	...	134	16	33.9	R
June 7	7.0	18	23	24.78	...	127	40	10.1	R	19	...	32	12.16	...	16	33.8	R																					
9	...	23	24.77	40	12.1	M	23	...	32	12.17	...	16	32.1	R																						
11	...	23	24.90	10	10.2	M	337 <i>Anon.</i>																													
15	7.0	23	24.73	...	...	40	10.4	M																												
22	7.0	23	24.84	...	...	40	11.8	M																												
332 <i>Stone 10124</i>																													May 25	8.0	18	34	2.21	...	125	42	3.8	R
May 24	7.0	18	29	26.83	...	131	42	30.5																					R	28	8.0	34	2.13	...	42	4.9	R	
28	7.0	29	26.80	42	31.5	R											29	8.0	34	2.88	...	42	6.3	R												
29	7.0	29	26.82	42	32.4	R											30	8.0	34	2.36	...	42	6.5	R												
30	7.0	29	26.78	42	33.6	R											June 1	8.0	34	2.29	..	42	6.1	R												
June 1	7.0	29	26.63	42	34.4	R											338 <i>Anon.</i>																			
333 <i>Anon.</i>																													Aug. 28	8.0	18	34	16.75	...	124	34	19.6	R
June 22	8.5	18	30	45.26	...	127	5	56.0	M	Sep. 4	...	34	16.61	...	34	18.0	M																					
Aug. 13	8.5	30	45.18	5	57.5	R	13	...	34	16.56	...	34	17.0	M																						
									15	7.8	34	16.56	...	34	17.8	M																						
									17	...	34	16.85	3	34	16.6	M																						

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
350 <i>Taylor 8685.</i>									Aug. 14	...	18	54	18.74	...	75	5	22.2	R	
Aug. 8	...	18	48	44.25	...	127	29	28.8	R	16	...	54	18.63	...	5	22.6	R		
9	...	48	44.33	...	...	29	24.8	R	18	...	54	18.62	...	5	21.6	R	
10	...	48	44.07	...	...	29	24.3	R	25	...	54	18.67	...	5	22.2	R	
11	...	48	44.09	...	...	29	26.0	R	28	...	54	18.65	...	5	21.2	R	
13	...	48	44.09	...	...	29	23.3	R	Sep. 4	...	54	18.55	...	5	23.3	M	
351 <i>Anon.</i>									5	...	54	18.57	...	5	22.8	M			
May 30	9.5	18	52	14.82	...	192	56	57.4	R	10	...	54	18.64	...	5	21.3	M		
352 <i>Taylor 8715.—1st.</i>									11	...	54	18.60	...	5	22.3	M			
July 30	7.5	18	53	8.67	...	127	13	16.5	R	356 <i>Stone 10351.</i>									
Sep. 15	7.0	53	8.66	13	16.0	M	Sep. 29	6.0	18	55	18.37	...	128	25	13.5	M	
25	...	53	8.53	5	...	13	14.8	M	Oct. 1	6.0	55	18.18	...	25	14.2	R			
27	7.3	53	8.68	...	...	13	15.7	M	4	6.0	55	18.21	4	25	11.5	R	
28	...	53	8.66	...	...	13	16.3	M	5	6.0	55	18.23	...	25	11.8	R	
353 <i>Taylor 8715.—2nd.</i>									357 <i>Anon.</i>										
Sep. 17	7.5	18	53	9.90	...	127	13	19.1	M	June 15	7.5	19	0	12.02	...	135	15	25.2	M
20	...	53	9.67	...	...	13	19.3	M	Sep. 4	7.5	0	11.69	...	15	26.8	M	
22	...	53	9.78	...	...	13	18.1	M	13	...	0	11.79	...	15	25.5	M	
24	...	53	9.74	...	...	13	19.2	M	14	...	0	11.69	5	15	26.3	M	
26	7.3	53	9.80	...	...	13	18.2	M	15	7.5	0	11.72	...	15	26.9	M	
354 <i>Anon.</i>									358 <i>Stone 10391.</i>										
July 28	8.5	18	53	54.82	...	128	6	55.2	R	Sep. 26	7.3	19	0	33.03	...	192	36	21.5	M
Sep. 14	8.5	53	54.91	...	...	6	57.3	M	27	7.3	0	33.01	...	36	21.9	M	
355 <i>13 Aquilæ ε</i>									359 <i>Stone 10400.</i>										
June 1	...	18	54	18.66	...	75	5	23.2	R	June 11	...	19	1	34.60	...	190	0	36.7	M
7	...	54	18.62	...	...	5	21.6	R	14	...	1	34.39	...	0	33.8	M	
9	...	54	18.66	...	...	5	21.4	M	22	...	1	34.44	...	0	37.6	M	
14	...	54	18.67	...	...	5	24.5	M	July 18	...	1	34.78	...	0	38.3	R	
15	...	54	18.67	...	...	5	22.2	M	30	...	1	34.64	...	0	38.9	R	
20	...	54	18.47	5	22.1	M	360 <i>Anon.</i>										
Aug. 8	...	54	18.67	5	23.5	R	Aug. 11	8.0	19	4	10.15	...	135	27	42.0	R	
9	...	54	18.62	5	22.1	R	13	9.0	4	9.97	...	27	41.4	R			
10	...	54	18.66	5	22.9	R	14	8.5	4	10.01	...	27	41.5	R			
11	...	54	18.58	5	22.2	R											
13	...	54	18.62	5	22.7	R											

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
361 Stone 10420.										369 Stone 10467.									
Sep. 28	...	19	4	14.46	..	127	46	29.6	M	June 22	7.0	19	12	30.34	...	135	35	11.5	M
29	...		4	14.58	...		46	27.6	M	July 28	7.0		12	30.49	...		35	10.8	R
Oct. 1	...		4	14.52	...		46	27.5	R	30	7.0		12	30.86	...		35	10.9	R
4	...		4	14.47	...		46	26.0	R	Aug. 9	7.0		12	30.46	...		35	13.0	R
5	...		4	14.52	...		46	27.1	R	10	7.0		12	30.47	...		35	12.5	R
362 Stone 10432.										370 Stone 10487.									
Aug. 8	...	19	6	8.82	...	185	23	26.3	R	Sep. 26	7.0	19	14	14.69	...	119	49	18.6	M
9	...		6	8.73	...		23	22.6	R	27	7.0		14	14.61	...		49	17.3	M
363 Anon.										Oct. 28									
Aug. 25	7.5	19	7	41.64	...	129	24	5.0	R	28	7.0		14	14.37	...		49	19.1	M
28	7.5		7	41.82	...		24	5.5	R	Oct. 6	7.0		14	14.61	5		49	15.4	R
364 Taylor 8823.										371 Anon.									
June 15	...	19	7	50.29	...	135	40	3.9	M	Aug. 25	...	19	14	18.73	...	127	26	18.0	R
Sep. 4	...		7	50.27	...		40	4.2	M	28	...		14	18.71	...		26	18.4	R
10	...		7	50.37	4		40	0.2	M	Sep. 12	...		14	18.99	...		26	17.5	M
13	...		7	50.27	...		40	3.9	M	13	...		14	18.63	...		26	18.4	M
15	...		7	50.23	...		40	4.3	M	15	...		14	18.81	...		26	18.6	M
20	...		7	50.32	...		40	6.3	M	372 Anon.									
365 Stone 10451.										July 30									
Sep. 11	...	19	8	52.41	5	135	37	34.5	M	Aug. 11	9.0	19	17	6.91	...	130	4	85.8	R
14	...		8	52.26	...		37	33.6	M	Aug. 11	9.0		17	6.72	...		4	37.5	R
22	...		8	52.39	5		37	32.2	M	373 49 Sagittarii χ^3									
24	...		8	52.24	...		37	33.6	M	Sep. 29	6.0	19	18	24.67	...	114	11	26.5	M
366 Anon.										Oct. 9									
Aug. 18	9.5	19	10	13.33	...	130	46	34.5	R	Oct. 9	6.0		18	24.62	...		11	22.9	R
14	9.5		10	13.37	...		46	34.1	R	374 Anon.									
367 Anon.										Aug. 8									
Aug. 11	7.5	19	10	40.16	...	129	45	12.3	R	Aug. 8	9.5	19	19	47.82	...	130	13	15.7	R
368 Stone 10465.										13									
Oct. 1	6.0	19	11	54.50	...	125	37	58.8	R	13	9.5		19	47.69	...		13	11.6	R
4	6.0		11	54.47	4		37	59.0	R	14	9.5		19	47.66	...		13	10.7	R
5	6.0		11	54.76	...		37	59.8	R	16	9.5		19	47.76	...		13	11.1	R
375 Stone 10534.										25									
Sep. 27	...	19	21	55.28	...	125	19	13.4	M	25	9.5		19	47.89	...		13	10.8	R
28	...		21	55.30	...		19	13.6	M	375 Stone 10534.									
Oct. 5	...		21	55.21	...		19	12.8	R	Sep. 27	...	19	21	55.28	...	125	19	13.4	M
9	...		21	55.09	...		19	14.7	R	28	...		21	55.30	...		19	13.6	M

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
376 <i>Anon.</i>										384 <i>Stone 10598.</i>									
July 28	8.0	19	22	5.66	4	132	34	15.8	R	Oct. 9	6.7	19	31	57.21	...	129	41	45.9	R
30	8.0		22	5.78	...		34	17.4	R	13	6.7		31	57.31	...		41	48.3	R
Sep. 4	8.0		22	5.66	...		34	16.1	M	385 <i>Anon.</i>									
13	...		22	5.76	...		34	16.7	M	Oct. 5	7.5	19	33	25.90	3	126	35	58.9	R
377 <i>Anon.</i>										386 <i>Stone 10622.</i>									
Aug. 8	9.0	19	25	49.63	...	133	42	50.9	R	Sep. 27	...	19	35	48.41	...	127	48	47.6	M
378 <i>Anon.</i>										Sep. 29	...		35	48.42	...		48	46.8	M
Sep. 14	...	19	25	58.47	...	146	55	2.1	M	387 <i>Stone 10624.</i>									
15	...		25	58.58	...		55	2.5	M	Oct. 11	7.0	19	36	21.45	...	131	53	7.6	R
379 <i>Taylor 8982.</i>										13	7.0		36	21.60	...		53	9.1	R
Oct. 11	...	19	28	35.13	...	148	14	24.0	R	18	7.0		36	21.50	...		53	8.0	R
380 <i>Stone 10583.</i>										388 <i>R. P. L. 133.</i>									
July 30	7.5	19	29	32.25	...	131	42	59.3	R	Aug. 4	...	19	37	47.34	3	4	9	17.0	R
Aug. 9	7.0		29	32.24	...		42	58.9	R	8	...		37	47.43	3		9	18.3	R
10	7.0		29	32.26	...		42	58.5	R	9	...		37	47.19	3		9	16.1	R
11	7.0		29	32.29	...		42	57.7	R	10	...		37	47.27	3		9	16.4	R
16	7.0		29	32.21	...		42	57.8	R	11	...		37	47.50	3		9	16.4	R
381 <i>Anon.</i>										13	...		37	45.18	3		9	17.2	R
Aug. 25	8.0	19	29	45.56	...	125	20	57.6	R	16	...		37	47.70	3		9	15.7	R
28	8.0		29	45.56	...		29	57.5	R	Sep. 4	...		37	45.61	3		9	16.4	M
Sep. 4	8.0		29	45.72	6		29	57.9	M	R. P. L. 133.—s.p.									
13	...		29	45.67	...		29	58.2	M	Jan. 27	...	19	37	47.14	3	4	9	18.0	M
382 <i>Anon.</i>										29	...		37	46.94	3		9	17.2	M
July 28	8.0	19	30	11.65	...	129	1	3.4	R	30	...		37	48.00	3		9	16.6	M
383 <i>Stone 10594.</i>										Feb. 1	...		37	46.84	2		9	18.1	R
Sep. 26	6.0	19	31	17.28	...	135	32	34.4	M	2	...		37	47.27	3		9	19.0	R
27	6.0		31	17.39	...		32	33.9	M	8	...		37	47.11	3		9	18.3	R
28	6.0		31	17.06	...		32	34.6	M	389 <i>R. P. L. 134.</i>									
29	6.0		31	17.33	...		32	34.0	M	Aug. 8	...	19	39	34.97	3	4	9	34.9	R
Oct. 1	6.0		31	17.06	...		32	34.2	R	9	...		39	34.88	3		9	32.0	R
										11	...		39	35.03	3		9	31.6	R
										13	...		39	35.01	3		9	31.2	R
										Sep. 14	...		39	34.91	3		9	32.5	M
										28	...		39	35.15	3		9	31.8	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
402 Stone 10752.										409 Stone 10797.									
Aug. 28	8.5	19	53	51.52	...	126	59	56.9	R	Oct. 9	...	20	0	38.85	...	137	24	11.2	R
Sep. 15	7.0		53	51.54	5		59	55.2	M	10	...		0	38.82	...		24	11.4	R
19	...		53	51.70	6		59	59.9	M	20	...		0	38.94	...		24	13.5	M
22	7.0		53	51.60	...		59	56.8	M	410 Stone 10823.									
24	...		53	51.54	4		59	57.8	M	Oct. 11	6.7	20	5	6.49	...	188	3	38.5	R
403 Anon.										13	6.7		5	6.55	...		3	39.6	R
Aug. 16	8.0	19	54	25.56	...	130	18	18.3	R	18	6.7		5	6.55	...		3	37.2	R
404 Taylor 9195.										19	6.7		5	6.59	...		3	38.4	R
Oct. 1	...	19	55	46.78	...	128	15	46.9	R	22	6.7		5	6.74	...		3	38.8	R
6	...		55	46.79	...		15	44.3	R	411 65 Aquilæ θ									
9	...		55	46.71	...		15	45.3	R	Aug. 9	...	20	5	15.98	...	91	10	4.3	R
10	...		55	46.69	...		15	46.1	R	10	...		5	16.00	...		10	4.4	R
17	...		55	46.96	...		15	47.4	R	11	...		5	16.04	...		10	3.7	R
405 Anon.										13	...		5	16.03	...		10	2.4	R
Aug. 13	9.0	19	56	54.59	...	131	48	51.0	R	14	...		5	15.90	...		10	2.1	R
14	9.0		56	54.60	...		48	50.7	R	16	...		5	16.00	...		10	2.4	R
18	9.0		56	54.87	...		48	50.5	R	18	...		5	15.99	...		10	3.2	R
Sep. 14	9.0		56	54.71	...		48	49.7	M	25	...		5	16.04	...		10	2.6	R
406 Taylor 9213.										28	...		5	16.00	...		10	3.7	R
Oct. 11	...	19	58	21.94	...	145	20	58.5	R	Sep. 3	...		5	16.09	...		10	3.3	M
13	...		58	21.79	...		21	1.3	R	25	...		5	16.03	...		10	2.8	M
18	...		58	21.72	...		21	0.0	R	26	...		5	16.02	...		10	4.9	M
19	...		58	21.90	...		20	59.7	R	27	...		5	16.10	...		10	5.6	M
22	...		58	21.96	...		21	0.7	R	28	...		5	16.02	...		10	5.9	M
407 Anon.										29	...		5	16.12	...		10	3.4	M
Aug. 8	9.5	19	58	30.55	...	148	10	38.2	R	Oct. 1	...		5	16.00	...		10	2.7	R
9	9.5		58	30.44	...		10	36.4	R	3	...		5	16.03	...		10	1.4	R
408 Stone 10792.										4	...		5	15.97	...		10	1.8	R
Sep. 26	...	19	59	43.92	6	125	52	0.6	M	5	...		5	15.98	...		10	1.6	R
27	...		59	43.76	...		52	0.0	M	6	...		5	15.94	...		10	1.0	R
28	...		59	43.83	5		51	50.5	M	412 Taylor 9303.									
29	...		59	43.73	...		51	59.8	M	Oct. 10	...	20	7	59.36	...	117	22	51.7	R
Oct. 5	...		59	43.78	...		51	58.6	R	17	...		7	59.45	...		22	52.9	R
409 Stone 10797.										413 Stone 10840.									
Oct. 5	...	20	8	46.85	...	126	48	33.1	R	Oct. 5	...	20	8	46.85	...	126	48	33.1	R
9	...		8	46.88	...		48	33.2	R	9	...		8	46.88	...		48	33.2	R
20	...		8	46.54	...		48	35.2	M	20	...		8	46.54	...		48	35.2	M
23	...		8	46.50	...		48	35.6	R	23	...		8	46.50	...		48	35.6	R
25	...		8	46.68	...		48	35.4	R	25	...		8	46.68	...		48	35.4	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.		
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"
426 <i>2 Delphini e</i>									Oct. 11	...	20	35	12.87	...	129	58	32.8	
Sep. 4	...	20	27	37.43	...	79	5	37.6	M	25	...	35	13.06	...	58	34.4		
5	...	27	37.33	...	...	...	5	34.1	M	Nov. 6	...	35	13.08	...	58	32.8
10	...	27	37.39	...	...	...	5	36.4	M	430 <i>Taylor 9561.</i>						
11	...	27	37.40	5	37.5	M	Oct. 10	...	20	37	14.09	...	126	14	53.6
12	...	27	37.32	...	...	...	5	37.5	M	19	...	37	14.27	...	14	54.1
13	...	27	37.22	...	...	...	5	37.8	M	22	...	37	14.40	...	14	52.8
14	...	27	37.26	...	...	...	5	37.7	M	24	...	37	14.34	...	14	55.5
15	...	27	37.37	...	...	...	5	37.5	M	431 <i>Anon.</i>						
17	...	27	37.41	5	36.7	M	Sep. 25	...	20	37	38.58	4	126	31	44.9
19	...	27	37.37	...	...	...	5	37.3	M	26	8.0	37	38.24	...	31	44.1
20	...	27	37.30	...	...	...	5	38.5	M	27	...	37	38.32	...	31	44.2
21	...	27	37.25	...	...	...	5	37.0	M	28	...	37	38.39	6	31	44.8
22	...	27	37.18	...	...	...	5	35.8	M	432 <i>Taylor 9573.</i>						
24	...	27	37.38	5	39.1	M	Oct. 18	...	20	39	21.06	...	136	16	48.8
25	...	27	37.26	...	...	...	5	37.0	M	23	...	39	21.14	...	16	49.7
26	...	27	37.29	...	...	...	5	38.6	M	433 <i>2 Aquarii e</i>						
27	...	27	37.27	5	39.0	M	Sep. 3	...	20	41	20.45	...	99	55	24.1
28	...	27	37.33	...	...	...	5	38.4	M	4	...	41	20.43	...	55	23.8
29	...	27	37.33	...	...	...	5	37.4	M	5	...	41	20.50	...	55	24.5
Oct. 1	...	27	37.26	...	...	...	5	38.3	R	10	...	41	20.38	...	55	23.7
3	...	27	37.28	...	...	...	5	36.3	R	11	...	41	20.39	...	55	23.8
4	...	27	37.33	...	...	...	5	34.8	R	12	...	41	20.51	...	55	23.6
5	...	27	37.34	...	...	...	5	34.9	R	13	...	41	20.43	...	55	23.4
6	...	27	37.17	...	...	...	5	36.3	R	14	...	41	20.48	...	55	24.2
8	...	27	37.36	...	...	...	5	37.6	R	15	...	41	20.49	...	55	25.4
427 <i>Stone 11003.</i>									17	...	41	20.44	...	55	23.1			
Oct. 9	...	20	32	23.46	4	126	26	32.3	R	19	...	41	20.36	...	55	23.8		
19	...	32	23.52	...	...	...	26	34.4	R	20	...	41	20.37	...	55	25.3
20	...	32	23.23	...	...	...	26	32.9	M	21	...	41	20.36	...	55	22.8
23	...	32	23.51	6	26	33.1	26	33.1	R	22	...	41	20.59	...	55	23.9		
24	...	32	23.47	...	26	31.8	26	31.8	R	24	...	41	20.57	...	55	24.5		
428 <i>Taylor 9519.</i>									Oct. 1	...	41	20.50	...	55	22.7			
Sep. 4	...	20	33	34.17	5	132	32	46.5	M	3	...	41	20.44	...	55	21.6		
15	...	33	34.17	...	32	47.9	32	47.9	M	4	...	41	20.45	...	55	23.3		
429 <i>Taylor 9544.</i>									5	...	41	20.40	...	55	24.1			
Oct. 5	...	20	35	13.01	...	129	58	29.9	R	6	...	41	20.49	...	55	21.0		
6	...	35	13.08	...	58	30.6	58	30.6	R	8	...	41	20.43	...	55	23.0		

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.									
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"										
Sep. 20	...	20	59	22-21	...	107	41	52-5	M	453	<i>Taylor 9889.</i>																	
21	...	59	22-28	...	41	50-8	M	Sep. 26	6-5		21	14	52-23	...	119	39	40-4	M										
22	...	59	22-10	...	41	50-4	M	Oct. 3	6-7		14	52-10	...	39	41-4	R												
24	...	59	23-01	...	41	50-6	M	4	6-7		14	52-12	...	39	41-0	R												
25	...	59	21-97	...	41	49-9	M	5	6-7		14	52-09	...	39	41-7	R												
26	...	59	22-16	...	41	50-6	M	18	6-7		14	52-00	...	39	39-4	R												
27	...	59	22-12	...	41	50-0	M	454 <i>33 Capricorni.</i>																				
28	...	59	22-01	...	41	49-7	M																					
29	...	59	22-13	...	41	51-5	M																					
Oct. 1	...	59	22-14	...	41	50-7	R																					
9	...	59	22-11	...	41	48-3	R																					
10	...	59	22-15	...	41	40-4	R																					
11	...	59	22-11	...	41	49-5	R																					
449 <i>Anon.</i>																		Sep. 28	...	21	17	31-26	...	111	20	54-8	M	
450 <i>Stone 11227.</i>																		29	...	17	31-23	...	20	48-7	M			
Oct. 18	8-0	21	0	13-05	...	150	59											40-0	R	Oct. 1	...	17	31-17	...	20	52-2	R	
Oct. 4	6-7	21	1	58-59	...	134	40	54-3	R	11	...	17	31-26	...	20	49-8	R											
5	6-7	1	58-60	...	40	54-4	R	19	...	17	31-45	...	20	50-1	R													
20	6-7	1	58-60	...	40	55-1	M	455 <i>Stone 11367.</i>																				
22	6-7	1	58-88	...	40	56-8	R	Sep. 26	7-0	21	21	39-61	5	152	40	33-3	M											
23	6-7	1	58-78	...	40	55-3	R	27	...	21	39-54	5	40	34-1	M													
451 <i>Taylor 9809.</i>									Oct. 18	6-7	21	39-51	...	40	33-8	R												
Sep. 26	...	21	5	33-56	...	129	54	2-8	M	19	6-7	21	39-71	...	40	34-4	R											
27	...	5	33-58	...	54	1-8	M	20	6-7	21	39-46	...	40	34-3	M													
29	...	5	33-77	...	54	1-8	M	456 <i>R. P. L. 149.</i>																				
Oct. 1	...	5	33-64	...	54	1-9	R	Sep. 4	...	21	22	43-22	3	3	26	57-1	M											
9	...	5	33-70	...	54	1-0	R	14	...	22	45-06	2	26	56-4	M													
452 <i>Taylor 9843.</i>									457 <i>Stone 11390.</i>																			
Sep. 23	6-3	21	9	53-87	...	139	12	11-4	M	Sep. 28	6-0	21	25	48-17	...	135	21	56-3	M									
29	7-0	9	53-98	...	12	10-7	M	29	6-0	25	48-20	...	21	54-1	M													
Oct. 4	6-7	9	53-99	...	12	9-7	R	Oct. 4	6-0	25	48-35	...	21	51-8	R													
5	6-7	9	53-98	...	12	10-6	R	5	6-0	25	48-33	...	21	52-9	R													
11	6-7	9	53-87	...	12	13-1	R	6	6-0	25	48-32	...	21	54-3	R													
453 <i>Taylor 9889.</i>									458 <i>Stone 11403.</i>																			
Sep. 26	6-5	21	14	52-23	...	119	39	40-4	M	Sep. 26	6-0	21	28	41-66	5	155	20	47-2	M									
Oct. 3	6-7	14	52-10	...	39	41-4	R	27	...	28	41-41	...	20	49-2	M													
4	6-7	14	52-12	...	39	41-0	R	Oct. 3	6-0	28	41-48	...	20	48-8	R													
5	6-7	14	52-09	...	39	41-7	R	11	6-0	28	41-44	...	20	51-0	R													
18	6-7	14	52-00	...	39	39-4	R	18	6-0	28	41-56	...	20	48-6	R													

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		.	'	"				h.	m.	s.		.	'	"	
459 <i>Stone 11428.</i>										464 <i>Taylor 10109.</i>									
Sep. 28	...	21	32	3.66	...	124	12	14.9	M	Sep. 28	...	21	40	38.58	...	137	50	3.9	M
29	...		32	3.68	...		12	15.6	M	29	...		40	38.73	...		50	2.9	M
Oct. 1	...		32	3.71	4		12	16.0	R	Oct. 4	...		40	38.92	...		50	2.9	R
4	...		32	3.75	...		12	13.2	R	5	...		40	39.00	4		50	3.6	R
5	...		32	3.68	...		12	14.5	R	6	...		40	38.65	...		50	2.5	R
460 <i>Stone 11434.</i>										465 <i>Taylor 10164.</i>									
Sep. 10	...	21	32	25.98	...	133	39	29.6	M	Sep. 26	...	21	48	14.51	...	143	0	51.4	M
12	...		32	25.73	...		39	34.4	M	27	...		48	14.52	3		0	55.5	M
461 <i>Taylor 10073.</i>										466 <i>Taylor 10172.</i>									
Sep. 26	...	21	36	6.32	...	146	0	23.3	M	Sep. 28	...	21	49	19.97	...	127	48	27.3	M
27	...		36	6.33	...		0	24.2	M	29	...		49	20.04	...		48	28.4	M
Oct. 3	...		36	6.40	...		0	23.4	R	Oct. 1	...		49	19.96	...		48	26.8	R
4	...		36	6.46	...		0	23.4	R	6	...		49	19.83	4		48	26.1	R
5	...		36	6.44	...		0	24.4	R	9	...		49	19.93	...		48	26.2	R
462 <i>Stone 11470.</i>										467 <i>Stone 11555.</i>									
Sep. 10	...	21	37	46.88	5	128	58	33.2	M	Oct. 11	6.7	21	51	15.86	...	134	37	4.9	R
17	...		37	46.29	...		58	37.8	M	18	6.7		51	15.79	...		37	4.7	R
22	...		37	46.44	...		58	34.9	M	19	6.7		51	15.90	...		37	6.7	R
463 <i>8 Pegasi e</i>										468 <i>Anon.</i>									
Oct. 9	...	21	38	26.37	...	80	39	36.8	R	Sep. 13	...	21	52	5.66	5	132	36	2.7	M
10	...		38	26.35	...		39	37.9	R	15	8.0		52	5.39	...		36	1.9	M
11	...		38	26.43	...		39	38.0	R	17	8.5		52	5.54	...		36	2.4	M
13	...		38	26.44	...		39	39.0	R	469 <i>Taylor 10192.</i>									
17	...		38	26.45	...		39	39.0	R	Oct. 3	...	21	52	13.17	...	128	57	10.7	R
18	...		38	26.39	...		39	37.9	R	23	...		52	13.45	...		57	11.9	R
19	...		38	26.45	...		39	38.6	R	24	...		52	13.35	...		57	12.2	R
20	...		38	26.27	...		39	38.1	M	25	...		52	13.23	...		57	13.3	R
22	...		38	26.33	...		39	38.6	R	Nov. 6	...		52	13.13	...		57	12.1	R
23	...		38	26.40	...		39	38.1	R										
24	...		38	26.39	...		39	38.3	R										
25	...		38	26.39	...		39	36.5	R										
Nov. 5	...		38	26.35	...		39	40.4	M										
6	...		38	26.43	...		39	37.9	R										
7	...		38	26.34	...		39	38.3	M										
9	...		38	26.26	...		39	38.7	M										
10	...		38	26.35	...		39	40.8	M										
12	...		38	26.29	...		39	40.6	M										
14	...		38	26.25	...		39	40.2	M										
15	...		38	26.18	...		39	38.1	M										

Separate Results of Madras Meridian Circle Observations in 1888.

Number and Date.	Magnitude.	Mean Right Ascension 1883.		No. of Wires.	Mean Polar Distance 1883.		Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.		No. of Wires.	Mean Polar Distance 1883.		Observer.
		h. m. s.	° ' "		° ' "	° ' "									
470 Stone 11574.								474 Stone 11610.							
Sep. 29	6.0	21 53 59.64	...	127	6 58.2	M	Sep. 20	...	22 0 9.13	...	120	11 11.6	M		
Oct. 4	6.7	53 59.58	...		6 55.6	R	Oct. 4	...	0 8.94	...		11 10.1	R		
	5	53 59.52	...		6 56.2	R	6	...	0 9.14	...		11 9.6	R		
	6	53 59.55	4		6 55.9	R	9	...	0 9.01	5		11 9.2	R		
	9	53 59.40	...		6 56.8	R	11	...	0 9.08	...		11 10.8	R		
471 Taylor 10232.								475 43 Aquarii θ							
Sep. 26	6.0	21 57 57.35	...	117	23 18.9	M	Oct. 11	...	22 10 39.49	...	98	21 55.9	R		
28	6.0	57 57.36	...		23 19.3	M	13	...	10 39.43	...		21 56.1	R		
Oct. 1	6.0	57 57.23	...		23 18.4	R	17	...	10 39.44	...		21 56.1	R		
3	6.0	57 57.20	...		23 17.2	R	18	...	10 39.47	...		21 55.4	R		
5	6.0	57 57.23	...		23 16.2	R	19	...	10 39.47	...		21 55.9	R		
13	6.0	57 57.42	...		23 18.6	R	20	...	10 39.52	...		21 57.0	M		
							22	...	10 39.52	...		21 56.3	R		
							23	...	10 39.44	...		21 55.1	R		
							24	...	10 39.48	...		21 54.4	R		
							25	...	10 39.52	...		21 57.1	R		
							Nov. 5	...	10 39.57	...		21 56.7	M		
							6	...	10 39.45	...		21 55.0	R		
							7	...	10 39.50	...		21 56.5	M		
							9	...	10 39.62	...		21 55.3	M		
							10	...	10 39.45	...		21 57.8	M		
							12	...	10 39.58	...		21 59.6	M		
							13	...	10 39.53	...		21 58.0	M		
							14	...	10 39.46	...		21 57.0	M		
							15	...	10 39.51	...		21 56.6	M		
							16	...	10 39.46	...		21 56.9	M		
							20	...	10 39.65	...		21 54.5	M		
							21	...	10 39.45	...		21 56.0	M		
							23	...	10 39.51	...		21 56.2	M		
472 Stone 11601.								476 48 Aquarii γ							
Sep. 12	...	21 58 48.92	6	134	31 59.3	M	Sep. 26	...	22 15 36.73	...	91	58 35.0	M		
15	7.0	58 48.92	...		31 58.6	M	27	...	15 36.70	...		58 36.3	M		
473 34 Aquarii α								28	...	15 36.83	...		58 34.9	M	
Oct. 18	...	21 59 46.37	...	90	53 15.2	R	29	...	15 36.59	...		58 35.5	M		
19	...	59 46.33	...		53 16.6	R	Oct. 3	...	15 36.73	...		58 33.2	R		
20	...	59 46.31	...		53 16.3	M	4	...	15 36.72	...		58 33.5	R		
22	...	59 46.33	...		53 16.4	R	5	...	15 36.73	...		58 33.2	R		
23	...	59 46.42	...		53 14.3	R	6	...	15 36.70	...		58 34.1	R		
24	...	59 46.34	...		53 15.7	R	8	...	15 36.68	...		58 33.9	R		
25	...	59 46.35	...		53 16.8	R	9	...	15 36.72	...		58 33.7	R		
Nov. 5	...	59 46.32	...		53 16.9	M									
6	...	59 46.37	...		53 15.6	R									
7	...	59 46.41	...		53 16.3	M									
9	...	59 46.36	...		53 15.7	M									
10	...	59 46.44	...		53 18.6	M									
12	...	59 46.45	...		53 17.4	M									
13	...	59 46.35	...		53 18.9	M									
14	...	59 46.56	...		53 17.4	M									
15	...	59 46.47	...		53 17.1	M									
16	...	59 46.45	...		53 18.8	M									
20	...	59 46.39	...		53 17.6	M									
21	...	59 46.50	...		53 18.3	M									
23	...	59 46.50	...		53 19.1	M									
26	...	59 46.39	...		53 18.6	M									

