

# RESULTS

## OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

### MERIDIAN CIRCLE

AT THE

## GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1880, 1881, AND 1882

UNDER THE DIRECTION OF THE LATE

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OFFICIATING GOVERNMENT ASTRONOMER AT MADRAS

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# INTRODUCTION.

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The present volume contains the results of the observations made with the Madras Meridian Circle in the years 1880, 1881, and 1882. The number of observations dealt with is 9,267 of which 2,325 were made in 1880, 3,492 in 1881, and 3,450 in 1882. The observers were P. Ragavachari (R) and L. Moghansing (M). For convenience a personal equation of  $-0^{\circ}30$  was applied to all the observations of R.A. made by the latter, but this does not affect the deduced places as each observer determined his own clock error.

After part of the 'Separate Results' for 1880 had been struck off it was discovered that the observations on certain days differed seriously from those made on other days and the divergence was finally traced to erroneous determinations of the meridian error. This was found to be due to a wrong position having been adopted for the star R. P. 1. 14 (Groombridge 195). This error arose from using the proper motion given in the Greenwich *Nine-year Catalogue* for 1872 in bringing up the position of the star. The proper motion in R. A. there given is  $-0^{\circ}171$  while that adopted in the *Ten-year Catalogue* from Auwers' Bradley is  $+0^{\circ}0540$ . The result was that the adopted position differed from the true position by more than  $7''$ . In the light of this discovery it was thought necessary to re-examine the adopted positions of all the other meridian stars, as most of them had been taken from the Radcliffe catalogue of polar stars published in the Radcliffe observations for 1855. In doing this use was made of all available data but for many of the stars used the only recent observations that could be found were those in the *Williams College Catalogue of North Polar Stars*. The result of this investigation was that several of the adopted positions were found to be in error, but none were so seriously wrong as Groombridge 195, and as most of the meridian errors had been determined in the later years from observations of at least six circumpolar stars the actual corrections which had to be applied to the meridian errors were, in most cases, small except for the days on which Groombridge 195 had been used. All the meridian errors have, however, been re-computed and the reductions have been revised

throughout. From 1881 onwards the reductions have been revised in duplicate but the labour involved has seriously delayed the publication of this volume. The circumstance that part of the "Separate Results" for 1880 had been struck off before the error was discovered accounts for the large number of errata in that part.

As regards the volumes already published the effect of these errors has not yet been fully examined, but it may be here noted that Groombridge 195 was used for determination of the meridian error in 1874, June 9, October 31, November 2, 9, and 12 to 30; 1875, March 23 to April 5, November, 2, 19 to 23, and 30; 1876, April 28 and May 9; 1877, April 30, May 2, November 3 to 12, and December 10; 1879, November 8 to 24 and December 6 to 10. The errors due to this will be fully examined before the publication of next volume.

In preparing the present volume it has been found necessary to reject a considerable number of observations for several reasons. In examining cases of divergence between the different observations of the same star it was found in several cases that the observations in the transit book had evidently been tampered with, and in such cases the observations were rejected unless it was possible to determine what the original figures had been. Other observations were rejected on account of evident carelessness of the observer as shown by the reduction of the transits across each of the wires. In most of these cases the nights were more or less cloudy and it seems clear that, with the object of showing a large number of observations, the observers entered stars which ought to have been rejected on account of the interference caused by passing clouds. On the whole it is feared that the present volume compares somewhat unfavourably with those that have gone before, though every care has been taken to obtain the best possible results from the available data.

*Instrumental Corrections adopted in 1880.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 3	M	- 5.5	0.0	- 0.43	- 0.22	+ 0.05	- 0.32	
6	"	- 6.2	0.0	- 0.07	- 0.21	+ 0.09	- 0.31	
7	"	- 7.0	0.0	- 0.18	- 0.21	+ 0.04	- 0.31	40 R. P. L. & ε Urs. Min.
8	"	- 6.9	0.0	- 0.38	- 0.22	+ 0.02	- 0.32	
9	"	- 8.3	0.0	- 0.32	- 0.22	+ 0.03	- 0.32	
10	"	- 8.9	0.0	- 0.31	- 0.22	+ 0.05	- 0.32	
12	"	- 8.6	0.0	- 0.18	- 0.24	+ 0.04	- 0.33	
13	"	- 9.8	0.0	- 0.09	- 0.26	+ 0.05	- 0.33	
15	"	- 11.2	0.0	- 0.27	- 0.27	+ 0.03	- 0.34	40 R. P. L. & ε Urs. Min.
16	"	- 9.7	0.0	- 0.22	- 0.25	+ 0.05	- 0.35	
17	"	- 11.3	0.0	- 0.17	- 0.24	+ 0.05	- 0.36	
19	"	- 12.8	0.0	- 0.37	- 0.21	+ 0.05	- 0.36	
20	"	- 12.3	0.0	- 0.32	- 0.22	+ 0.03	- 0.36	
21	"	- 11.4	0.0	- 0.21	- 0.17	+ 0.03	- 0.37	
22	"	- 10.8	0.0	- 0.26	- 0.19	+ 0.02	- 0.37	40 R. P. L. & ε Urs. Min.
23	"	- 11.8	0.0	- 0.30	- 0.18	+ 0.03	- 0.37	
24	"	- 11.7	0.0	- 0.32	- 0.18	+ 0.10	- 0.37	
26	"	- 11.4	0.0	- 0.39	- 0.18	+ 0.07	- 0.38	
27	"	- 12.2	0.0	- 0.35	- 0.13	+ 0.08	- 0.38	
31	"	- 9.4	0.0	- 0.23	- 0.14	+ 0.05	- 0.39	
Feb. 2	"	- 8.0	0.0	- 0.12	- 0.17	+ 0.04	- 0.40	κ Orionis and 51 Cophel.
3	"	- 8.2	0.0	- 0.13	- 0.19	+ 0.05	- 0.39	
4	"	- 8.1	0.0	- 0.24	- 0.19	+ 0.06	- 0.38	
5	"	- 7.2	0.0	- 0.21	- 0.19	+ 0.04	- 0.38	
6	"	- 6.4	0.0	- 0.16	- 0.19	+ 0.02	- 0.37	40 R. P. L. & δ Urs. Min.
7	"	- 8.0	0.0	- 0.23	- 0.20	+ 0.03	- 0.38	
9	"	- 8.4	0.0	- 0.30	- 0.21	+ 0.04	- 0.40	
10	"	- 8.5	0.0	- 0.20	- 0.22	0.00	- 0.42	
11	"	- 9.1	0.0	- 0.07	- 0.21	+ 0.03	- 0.44	
12	"	- 9.5	0.0	- 0.01	- 0.22	+ 0.02	- 0.45	40 R. P. L. & δ Urs. Min.
13	"	- 10.1	0.0	- 0.10	- 0.23	- 0.01	- 0.43	
14	"	- 10.0	0.0	- 0.17	- 0.19	+ 0.03	- 0.41	
16	"	- 10.2	0.0	- 0.16	- 0.19	+ 0.02	- 0.36	
17	"	- 9.1	0.0	- 0.07	- 0.15	0.00	- 0.34	
18	"	- 8.5	0.0	- 0.03	- 0.12	+ 0.01	- 0.32	40 and 143 R. P. L.
20	"	- 6.7	0.0	+ 0.01	- 0.13	+ 0.02	- 0.44	
21	"	- 6.4	0.0	- 0.04	- 0.16	+ 0.01	- 0.52	69, 141 R. P. L. & 76 Draconis.
23	"	- 6.3	0.0	+ 0.07	- 0.16	+ 0.04	- 0.45	
24	"	- 7.1	0.0	+ 0.13	- 0.16	+ 0.02	- 0.42	
25	"	- 7.6	0.0	+ 0.03	- 0.15	+ 0.04	- 0.39	60 and 141 R. P. L.
26	"	- 7.4	0.0	+ 0.03	- 0.14	+ 0.06	- 0.43	
27	"	- 8.1	0.0	+ 0.05	- 0.14	+ 0.06	- 0.47	69, 141 R. P. L. & 76 Draconis.
28	"	- 7.8	0.0	0.00	- 0.13	+ 0.08	- 0.43	69, 141 R. P. L. & 76 Draconis.
Mar. 1	R	- 8.8	0.0	- 0.03	- 0.11	+ 0.03	- 0.39	40 and 141 R. P. L.
2	"	- 7.9	0.0	- 0.07	- 0.11	+ 0.02	- 0.41	40, 141 R. P. L. & 76 Draconis.
3	"	- 9.4	0.0	- 0.04	- 0.12	+ 0.03	- 0.39	40, 141 R. P. L. & 76 Draconis.
4	"	- 8.4	0.0	- 0.03	- 0.13	+ 0.02	- 0.40	43 and 141 R. P. L.
5	"	- 9.6	0.0	0.00	- 0.13	+ 0.01	- 0.42	51 Cophel and 141 R. P. L.
6	"	- 9.1	0.0	+ 0.09	- 0.16	+ 0.02	- 0.40	60 and 141 R. P. L.
15	T	- 11.3	0.0	- 0.17	- 0.08	+ 0.04	- 0.39	
17	"	- 11.8	0.0	- 0.10	- 0.06	+ 0.03	- 0.39	79 and 158 R. P. L.
19	"	- 11.0	0.0	- 0.21	- 0.04	+ 0.04	- 0.33	79 and 131 R. P. L.
22	"	- 10.4	0.0	- 0.29	+ 0.05	+ 0.05	- 0.33	
24	"	- 11.1	0.0	- 0.22	+ 0.11	+ 0.06	- 0.32	
Apl. 3	"	- 10.1	0.0	- 0.11	+ 0.02	+ 0.03	- 0.31	

*Instrumental Corrections adopted in 1880.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Apl. 7	T	- 10.2	0.0	- 0.08	+ 0.08	+ 0.03	- 0.30	49 and 143 R. P. L.
10	"	- 9.7	0.0	- 0.09	+ 0.04	+ 0.01	- 0.36	
13	"	- 9.8	0.0	- 0.21	+ 0.07	+ 0.02	- 0.41	69 and 143 R. P. L.
15	"	- 10.5	0.0	- 0.19	+ 0.13	+ 0.07	- 0.37	
17	"	- 9.9	0.0	- 0.19	+ 0.12	+ 0.06	- 0.34	60 and 158 R. P. L.
19	"	- 9.3	0.0	- 0.09	+ 0.12	+ 0.06	- 0.35	
22	"	- 10.1	0.0	+ 0.04	+ 0.15	+ 0.09	- 0.38	
24	"	- 9.0	0.0	0.00	+ 0.11	0.00	- 0.40	
26	"	- 9.1	0.0	- 0.01	+ 0.09	+ 0.02	- 0.42	69 and 158 R. P. L.
29	"	- 9.5	0.0	+ 0.02	+ 0.18	+ 0.12	- 0.43	
May 1	R	- 8.5	0.0	- 0.03	+ 0.05	- 0.01	- 0.44	70 and 150 R. P. L.
4	"	- 9.1	0.0	- 0.09	+ 0.15	+ 0.04	- 0.46	
5	"	- 9.3	0.0	- 0.03	+ 0.10	+ 0.03	- 0.46	
6	"	- 9.1	0.0	- 0.01	+ 0.12	+ 0.02	- 0.46	103 and 158 R. P. L.
7	"	- 9.0	0.0	- 0.06	+ 0.10	+ 0.03	- 0.44	
8	"	- 9.6	0.0	- 0.06	+ 0.12	+ 0.02	- 0.42	
10	"	- 8.6	0.0	- 0.08	+ 0.11	+ 0.03	- 0.36	89 and 158 R. P. L.
11	"	- 8.2	0.0	- 0.07	+ 0.12	+ 0.03	- 0.35	
12	"	- 8.8	0.0	- 0.01	+ 0.10	+ 0.02	- 0.34	
13	"	- 8.8	0.0	+ 0.10	+ 0.09	+ 0.02	- 0.32	
14	"	- 9.3	0.0	+ 0.12	+ 0.10	+ 0.05	- 0.31	
15	"	- 8.7	0.0	+ 0.11	+ 0.10	+ 0.03	- 0.29	
17	"	- 8.2	0.0	+ 0.07	+ 0.11	+ 0.04	- 0.27	
18	"	- 8.8	0.0	+ 0.05	+ 0.11	+ 0.02	- 0.26	
19	"	- 9.0	0.0	+ 0.06	+ 0.11	+ 0.03	- 0.25	108 and 26 R. P. L.
20	"	- 9.5	0.0	+ 0.05	+ 0.11	+ 0.04	- 0.25	
22	"	- 9.0	0.0	+ 0.04	+ 0.11	+ 0.03	- 0.26	
24	"	- 8.9	0.0	+ 0.05	+ 0.11	+ 0.02	- 0.26	
25	"	- 8.9	0.0	+ 0.03	+ 0.12	+ 0.03	- 0.27	
27	"	- 9.4	0.0	- 0.12	+ 0.12	+ 0.04	- 0.27	γ Virginis and 111 R.P.L.
28	"	- 8.5	0.0	- 0.11	+ 0.11	+ 0.02	- 0.27	
29	"	- 8.3	0.0	- 0.06	+ 0.12	+ 0.03	- 0.27	
June 1	"	- 8.5	0.0	+ 0.04	+ 0.12	+ 0.03	- 0.28	
2	"	- 8.3	0.0	+ 0.08	+ 0.12	+ 0.03	- 0.28	
3	"	- 9.2	0.0	+ 0.02	+ 0.11	+ 0.03	- 0.29	
4	"	- 9.0	0.0	- 0.07	+ 0.12	+ 0.02	- 0.29	115 and 33 R. P. L.
5	"	- 9.0	0.0	- 0.01	+ 0.12	+ 0.03	- 0.28	
7	"	- 8.9	0.0	+ 0.08	+ 0.12	+ 0.03	- 0.27	
8	"	- 9.4	0.0	0.00	+ 0.13	+ 0.03	- 0.26	
9	"	- 8.6	0.0	- 0.06	+ 0.13	+ 0.01	- 0.26	
16	"	- 9.6	0.0	- 0.09	+ 0.10	+ 0.03	- 0.21	
17	"	- 9.9	0.0	- 0.09	+ 0.10	+ 0.02	- 0.20	115 and 33 R. P. L.
18	"	- 9.9	0.0	- 0.07	+ 0.11	+ 0.02	- 0.20	
19	"	- 10.4	0.0	- 0.06	+ 0.11	+ 0.02	- 0.20	
28	"	- 9.4	0.0	- 0.02	+ 0.13	+ 0.04	- 0.19	
July 5	M	- 12.3	0.0	+ 0.04	+ 0.05	+ 0.05	- 0.18	
9	"	- 9.9	0.0	- 0.10	+ 0.01	+ 0.06	- 0.18	
10	"	- 11.9	0.0	- 0.14	+ 0.03	+ 0.03	- 0.18	
13	"	- 9.9	0.0	- 0.07	+ 0.02	+ 0.03	- 0.17	
15	"	- 10.4	0.0	- 0.14	- 0.01	+ 0.03	- 0.17	
16	"	- 9.9	0.0	- 0.05	+ 0.04	+ 0.04	- 0.17	
17	"	- 10.7	0.0	+ 0.07	+ 0.04	+ 0.03	- 0.17	111 R.P.L. & 1887 Radcliffe.
20	"	- 9.4	0.0	+ 0.02	+ 0.07	+ 0.05	- 0.17	
23	"	- 10.8	0.0	+ 0.07	+ 0.06	+ 0.08	- 0.17	115 R. P. L. and β Libræ.

*Instrumental Corrections adopted in 1880.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Moridian.	Determining Stars.
		"	"	"	"	"	"	
July 27	R	- 10.5	0.0	+ 0.01	+ 0.08	+ 0.04	- 0.16	
28	"	- 10.9	0.0	+ 0.01	+ 0.04	+ 0.05	- 0.16	
29	"	- 10.3	0.0	- 0.07	+ 0.05	+ 0.05	- 0.16	
30	M	- 10.5	0.0	- 0.07	+ 0.03	+ 0.04	- 0.16	
31	"	- 10.5	0.0	+ 0.02	+ 0.04	+ 0.07	- 0.16	
Aug. 3	"	- 11.2	0.0	+ 0.01	+ 0.07	+ 0.06	- 0.15	
7	"	- 10.6	0.0	- 0.07	+ 0.07	+ 0.08	- 0.14	
9	"	- 9.3	0.0	+ 0.03	+ 0.09	+ 0.09	- 0.14	131 R. P. L. & $\theta$ Aquila.
10	"	- 10.0	0.0	+ 0.16	+ 0.07	+ 0.06	- 0.18	
11	"	- 9.1	0.0	+ 0.17	+ 0.07	+ 0.05	- 0.23	$\lambda$ Ursæ Min. & 1887 Radcliffe.
14	"	- 9.2	0.0	+ 0.01	+ 0.04	0.00	- 0.22	
18	"	- 8.8	0.0	+ 0.02	0.00	+ 0.09	- 0.22	
19	"	- 9.2	0.0	+ 0.01	- 0.04	+ 0.03	- 0.23	
20	"	- 7.8	0.0	- 0.02	- 0.05	+ 0.06	- 0.23	
23	"	- 9.0	0.0	+ 0.10	- 0.05	+ 0.07	- 0.23	
24	"	- 8.3	0.0	+ 0.16	- 0.07	+ 0.05	- 0.23	
25	"	- 7.7	0.0	+ 0.16	- 0.06	+ 0.04	- 0.23	$\delta$ Ursæ Min. & 40 R. P. L.
30	"	- 7.8	0.0	+ 0.28	- 0.10	+ 0.08	- 0.27	
31	"	- 8.4	0.0	+ 0.15	- 0.12	+ 0.07	- 0.28	
Sep. 1	R	- 8.8	0.0	0.00	- 0.11	+ 0.06	- 0.29	
3	"	- 9.1	0.0	0.00	- 0.17	+ 0.02	- 0.31	
4	"	- 7.0	0.0	0.00	- 0.20	+ 0.04	- 0.31	
6	"	- 4.1	0.0	- 0.08	- 0.21	+ 0.04	- 0.33	
7	"	- 4.2	0.0	- 0.12	- 0.20	+ 0.04	- 0.34	$\lambda$ Sagittarii & $\delta$ Urs. Min.
13	"	+ 0.6	0.0	- 0.42	- 0.37	- 0.05	- 0.28	
14	"	+ 2.1	0.0	- 0.47	- 0.27	+ 0.03	- 0.26	
15	"	+ 0.8	0.0	- 0.42	- 0.19	+ 0.03	- 0.27	150 and 72 R. P. L.
16	"	+ 1.7	0.0	0.00	- 0.21	+ 0.04	- 0.27	
17	"	- 0.6	0.0	- 0.38	- 0.15	+ 0.08	- 0.26	
18	"	- 0.4	0.0	- 0.39	- 0.14	+ 0.04	- 0.26	
20	"	- 1.4	0.0	- 0.27	- 0.11	+ 0.03	- 0.25	
21	"	- 1.5	0.0	- 0.20	- 0.10	+ 0.05	- 0.25	141 and 49 R. P. L.
22	"	- 2.7	0.0	- 0.03	- 0.05	+ 0.06	- 0.25	
23	"	- 2.4	0.0	- 0.05	- 0.08	+ 0.03	- 0.28	141 R. P. L. & 1887 Radcliffe.
24	"	- 2.2	0.0	0.00	- 0.05	+ 0.04	- 0.26	
28	"	- 5.0	0.0	- 0.20	- 0.04	+ 0.03	- 0.17	
29	"	- 4.9	0.0	- 0.16	- 0.02	+ 0.01	- 0.15	141 and 49 R. P. L.
30	"	- 4.4	0.0	- 0.09	- 0.04	+ 0.04	- 0.17	141 and 49 R. P. L.
Oct. 1	M	- 6.2	0.0	- 0.09	- 0.06	+ 0.04	- 0.19	
2	"	- 6.7	0.0	- 0.07	- 0.08	+ 0.03	- 0.22	141 and 49 R. P. L.
4	"	- 6.8	0.0	+ 0.07	- 0.11	- 0.01	- 0.24	141 and 49 R. P. L.
5	"	- 6.2	0.0	+ 0.06	- 0.12	+ 0.01	- 0.24	
6	"	- 8.0	0.0	+ 0.11	- 0.11	+ 0.05	- 0.24	
7	"	- 7.6	0.0	+ 0.14	- 0.10	+ 0.04	- 0.24	
8	"	- 8.4	0.0	+ 0.12	- 0.09	+ 0.07	- 0.24	
9	"	- 8.8	0.0	+ 0.12	- 0.08	+ 0.04	- 0.25	
13	"	- 9.3	0.0	+ 0.21	- 0.09	+ 0.05	- 0.25	
14	"	- 8.8	0.0	+ 0.15	- 0.08	+ 0.02	- 0.25	2 Urs. Min. & 93 R. P. L.
15	"	- 8.4	0.0	+ 0.05	- 0.06	+ 0.06	- 0.23	
16	"	- 9.4	0.0	+ 0.03	- 0.05	+ 0.03	- 0.20	
20	"	- 4.9	0.0	- 0.03	- 0.12	+ 0.04	- 0.11	150 and 72 R. P. L.
21	"	- 2.2	0.0	0.00	- 0.13	+ 0.06	- 0.12	
25	"	+ 0.4	0.0	+ 0.08	- 0.18	+ 0.06	- 0.13	2 Urs. Min. & 93 R. P. L.
26	"	- 0.4	0.0	+ 0.08	- 0.12	+ 0.09	- 0.14	
27	"	- 0.9	0.0	+ 0.19	- 0.13	+ 0.05	- 0.16	

*Instrumental Corrections adopted in 1880.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Oct. 28	M	- 1.3	0.0	+ 0.08	- 0.16	+ 0.02	- 0.17	
29	"	- 2.2	0.0	+ 0.08	- 0.12	+ 0.04	- 0.18	2 Urs. Min. & 93 R. P. L.
30	"	- 1.3	0.0	- 0.04	- 0.11	+ 0.04	- 0.17	
Nov. 1	E	- 1.1	- 0.1	- 0.18	- 0.11	+ 0.03	- 0.16	
2	"	- 0.3	- 0.1	- 0.19	- 0.12	+ 0.04	- 0.16	
5	"	+ 0.3	- 0.1	- 0.19	- 0.22	+ 0.04	- 0.15	
6	"	0.0	- 0.1	- 0.17	- 0.13	+ 0.03	- 0.14	150 and 72 R. P. L.
8	"	0.0	- 0.1	+ 0.04	- 0.12	+ 0.03	- 0.17	
9	"	- 0.1	- 0.1	+ 0.03	- 0.13	+ 0.04	- 0.18	$\pi$ Cephei and 89 R. P. L.
11	"	+ 0.1	- 0.1	- 0.19	- 0.15	+ 0.03	- 0.22	
12	"	- 0.4	- 0.1	- 0.06	- 0.12	+ 0.04	- 0.23	
13	"	+ 1.4	- 0.1	0.00	- 0.15	+ 0.02	- 0.25	Polaris and 89 R. P. L.
16	"	+ 0.2	- 0.1	- 0.24	- 0.14	+ 0.02	- 0.16	
17	"	+ 0.6	- 0.1	- 0.16	- 0.13	+ 0.03	- 0.13	$\alpha$ Pegasi and 89 R. P. L.
18	"	- 0.8	- 0.1	- 0.12	- 0.13	+ 0.02	- 0.19	
19	"	- 1.1	- 0.1	- 0.18	- 0.15	+ 0.02	- 0.24	26 and 108 R. P. L.
22	"	+ 1.0	- 0.1	- 0.21	- 0.13	+ 0.02	- 0.23	
24	"	+ 1.1	- 0.1	- 0.20	- 0.13	+ 0.02	- 0.22	2 Urs. Min. & 89 R. P. L.
25	"	+ 1.0	- 0.1	- 0.25	- 0.13	+ 0.02	- 0.21	
Dec. 3	"	+ 6.5	0.0	- 0.07	+ 0.25	+ 0.02	- 0.15	33 and 89 R. P. L.
4	"	+ 6.4	0.0	- 0.10	+ 0.29	+ 0.02	- 0.15	
7	"	+ 6.8	0.0	- 0.33	+ 0.27	+ 0.02	- 0.14	14 and 99 R. P. L.
8	"	+ 5.7	0.0	- 0.27	+ 0.28	+ 0.02	- 0.20	
9	"	+ 5.7	0.0	- 0.23	+ 0.24	+ 0.04	- 0.25	
10	M	+ 7.6	0.0	- 0.31	+ 0.23	+ 0.06	- 0.31	26 R. P. L. and $\epsilon$ Urs. Min.
11	"	+ 5.8	0.0	- 0.39	+ 0.22	+ 0.09	- 0.26	26 R. P. L. and $\epsilon$ Urs. Min.
13	"	+ 4.1	0.0	- 0.35	+ 0.17	+ 0.05	- 0.29	26 R. P. L. and $\epsilon$ Urs. Min.
14	"	+ 3.8	0.0	- 0.28	+ 0.15	+ 0.04	- 0.24	26 and 93 R. P. L.
15	"	+ 2.3	0.0	- 0.32	+ 0.13	+ 0.03	- 0.34	26 and 93 R. P. L.
16	"	+ 2.9	0.0	- 0.29	+ 0.14	+ 0.05	- 0.34	
17	"	+ 1.6	0.0	- 0.28	+ 0.11	- 0.01	- 0.34	
18	"	+ 1.7	0.0	- 0.34	+ 0.06	+ 0.01	- 0.34	
20	"	+ 1.3	0.0	- 0.36	- 0.04	- 0.04	- 0.33	
22	R	+ 1.8	0.0	- 0.45	+ 0.04	+ 0.04	- 0.33	35 and 111 R. P. L.
25	"	+ 0.6	0.0	- 0.37	- 0.05	+ 0.04	- 0.34	
27	"	+ 2.1	0.0	- 0.55	- 0.14	+ 0.01	- 0.36	34 and 111 R. P. L.
28	"	+ 1.8	0.0	- 0.90	- 0.05	+ 0.03	- 0.36	
29	"	+ 2.3	0.0	- 0.79	- 0.07	+ 0.03	- 0.36	34 and 111 R. P. L.
30	M	+ 8.1	0.0	- 0.39	- 0.04	+ 0.04	- 0.34	
31	"	+ 2.1	0.0	- 0.46	- 0.06	+ 0.05	- 0.32	



*Instrumental Corrections adopted in 1881.*

Date.	Observer.	Index.	Ran in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 3	M	+ 2.0	0.0	- 0.46	- 0.03	+ 0.08	- 0.22	34 and 111 R. P. L.
4	"	+ 1.3	0.0	- 0.29	- 0.07	+ 0.04	- 0.24	
5	"	+ 1.8	0.0	- 0.38	- 0.03	+ 0.02	- 0.27	
6	"	+ 0.1	0.0	- 0.35	- 0.09	+ 0.01	- 0.29	
8	"	- 1.4	0.0	- 0.29	- 0.04	+ 0.05	- 0.34	35 and 111 R. P. L.
12	"	+ 0.5	0.0	- 0.23	0.00	+ 0.04	- 0.28	
13	R	- 0.4	0.0	- 0.22	+ 0.01	+ 0.03	- 0.27	
15	M	- 0.9	0.0	- 0.25	+ 0.01	+ 0.04	- 0.24	34 and 111 R. P. L.
18	"	- 1.6	0.0	- 0.22	+ 0.03	+ 0.08	- 0.28	
19	"	- 1.6	0.0	- 0.26	- 0.01	+ 0.03	- 0.33	
20	"	- 1.9	0.0	- 0.28	- 0.03	+ 0.01	- 0.34	
21	"	- 3.6	0.0	- 0.27	- 0.04	+ 0.03	- 0.35	o Tauri and 111 R. P. L.
22	"	- 2.9	0.0	- 0.29	0.00	+ 0.08	- 0.35	
24	"	- 4.5	0.0	- 0.31	- 0.06	+ 0.03	- 0.36	
25	"	- 3.7	0.0	- 0.35	- 0.08	0.00	- 0.36	
26	"	- 6.3	0.0	- 0.43	- 0.09	+ 0.03	- 0.36	35 and 115 R. P. L.
27	"	- 6.3	0.0	- 0.46	- 0.09	+ 0.05	- 0.38	
28	"	- 5.9	0.0	- 0.39	- 0.08	+ 0.05	- 0.39	
29	"	- 5.4	0.0	- 0.35	- 0.12	+ 0.04	- 0.41	
31	"	- 8.0	0.0	- 0.58	- 0.16	+ 0.02	- 0.44	
Feb. 1	R	- 8.3	0.0	- 0.45	- 0.12	+ 0.04	- 0.46	35 R. P. L. and ε Urs. Min.
2	"	- 8.2	0.0	- 0.24	- 0.12	+ 0.03	- 0.41	
3	"	- 8.6	0.0	- 0.30	- 0.13	+ 0.02	- 0.36	
4	"	- 8.6	0.0	- 0.31	- 0.10	+ 0.03	- 0.31	40 and 116 R. P. L.
5	"	- 9.1	0.0	- 0.26	- 0.09	+ 0.05	- 0.31	
7	"	- 10.1	0.0	- 0.36	- 0.12	+ 0.03	- 0.31	
8	"	- 9.4	0.0	- 0.23	- 0.10	+ 0.03	- 0.31	
9	"	- 9.2	0.0	- 0.19	- 0.11	+ 0.04	- 0.31	35 and 115 R. P. L.
10	"	- 9.2	0.0	- 0.26	- 0.10	+ 0.04	- 0.31	
11	"	- 8.9	0.0	- 0.23	- 0.12	+ 0.04	- 0.31	
12	"	- 9.1	0.0	- 0.23	- 0.11	+ 0.04	- 0.30	
14	"	- 9.5	0.0	- 0.48	- 0.12	+ 0.02	- 0.30	
15	"	- 9.1	0.0	- 0.58	- 0.07	+ 0.03	- 0.30	43 R. P. L. and 24 Urs. Min.
16	"	- 8.9	0.0	- 0.61	- 0.08	+ 0.01	- 0.30	
17	"	- 9.3	0.0	- 0.51	- 0.05	+ 0.02	- 0.30	
18	"	- 9.0	0.0	- 0.42	- 0.02	+ 0.04	- 0.30	
19	"	- 8.9	0.0	- 0.49	- 0.02	+ 0.02	- 0.30	
21	"	- 9.3	0.0	- 0.55	- 0.04	+ 0.02	- 0.30	49 and 143 R. P. L.
22	"	- 8.8	0.0	- 0.53	- 0.03	+ 0.03	- 0.30	
23	"	- 9.0	0.0	- 0.51	- 0.04	+ 0.02	- 0.30	
24	"	- 10.0	0.0	- 0.46	- 0.04	+ 0.02	- 0.30	
25	"	- 10.6	0.0	- 0.42	- 0.03	+ 0.03	- 0.30	43 and 131 R. P. L.
26	"	- 10.1	0.0	- 0.45	- 0.02	+ 0.04	- 0.31	
28	"	- 10.0	0.0	- 0.51	- 0.05	+ 0.03	- 0.32	49 and 131 R. P. L.
Mar. 1	M	- 9.4	0.0	- 0.59	- 0.01	+ 0.04	- 0.31	
2	"	- 10.4	0.0	- 0.45	+ 0.04	+ 0.09	- 0.30	
3	"	- 9.7	0.0	- 0.35	0.00	+ 0.06	- 0.29	
4	"	- 9.0	0.0	- 0.52	- 0.03	+ 0.02	- 0.29	
5	"	- 9.8	0.0	- 0.58	0.00	+ 0.01	- 0.28	
7	"	- 9.3	0.0	- 0.42	+ 0.02	+ 0.07	- 0.26	49 and 131 R. P. L.
8	"	- 9.5	0.0	- 0.42	+ 0.04	+ 0.05	- 0.27	
9	"	- 9.7	0.0	- 0.50	+ 0.01	+ 0.02	- 0.28	
10	"	- 9.4	0.0	- 0.39	+ 0.07	+ 0.04	- 0.29	
11	"	- 9.2	0.0	- 0.35	+ 0.04	+ 0.02	- 0.29	
12	"	- 9.1	0.0	- 0.48	+ 0.10	+ 0.03	- 0.30	
14	"	- 9.9	0.0	- 0.55	+ 0.07	+ 0.02	- 0.32	49 and 131 R. P. L.

*Instrumental Corrections adopted in 1881.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
Mar. 15	M	- 9.2	0.0	- 0.44	+ 0.09	+ 0.06	- 0.34	
16	"	- 9.9	0.0	- 0.34	+ 0.10	+ 0.03	- 0.36	
17	"	- 9.6	0.0	- 0.40	+ 0.05	- 0.02	- 0.39	
18	"	- 10.0	0.0	- 0.32	+ 0.09	+ 0.01	- 0.41	
19	"	- 10.1	0.0	- 0.28	+ 0.06	- 0.04	- 0.43	60 and 131 R. P. L.
21	"	- 10.0	0.0	- 0.36	+ 0.10	- 0.03	- 0.36	
22	"	- 9.7	0.0	- 0.34	+ 0.12	- 0.01	- 0.32	
23	"	- 9.8	0.0	- 0.43	+ 0.12	- 0.01	- 0.29	
24	"	- 10.3	0.0	- 0.30	+ 0.13	+ 0.06	- 0.25	60 and 131 R. P. L.
25	"	- 10.6	0.0	- 0.27	+ 0.14	+ 0.01	- 0.26	
26	"	- 10.0	0.0	- 0.38	+ 0.15	+ 0.04	- 0.27	
28	"	- 10.1	0.0	- 0.23	+ 0.14	+ 0.03	- 0.29	
29	"	- 8.7	0.0	- 0.25	+ 0.13	0.00	- 0.30	60 and 151 R. P. L.
30	"	- 9.1	0.0	- 0.37	+ 0.15	+ 0.03	- 0.30	
31	"	- 9.0	0.0	- 0.34	+ 0.18	+ 0.03	- 0.29	
Apl. 1	"	- 8.1	0.0	- 0.23	+ 0.15	+ 0.01	- 0.28	
2	"	- 8.4	0.0	- 0.32	+ 0.12	- 0.01	- 0.27	
4	R	- 8.0	0.0	- 0.37	+ 0.21	+ 0.04	- 0.26	70 and 150 R. P. L.
5	"	- 9.6	0.0	- 0.27	+ 0.20	+ 0.04	- 0.26	
6	"	- 9.6	0.0	- 0.26	+ 0.21	+ 0.03	- 0.26	
7	"	- 10.2	0.0	- 0.31	+ 0.19	+ 0.02	- 0.27	70 and 150 R. P. L.
8	"	- 9.2	0.0	- 0.36	+ 0.20	+ 0.03	- 0.27	
9	"	- 8.6	0.0	- 0.36	+ 0.21	+ 0.04	- 0.27	
11	"	- 8.6	0.0	- 0.31	+ 0.19	+ 0.02	- 0.26	70 and 150 R. P. L.
12	"	- 8.2	0.0	- 0.27	+ 0.21	+ 0.03	- 0.26	
13	"	- 8.0	0.0	- 0.20	+ 0.25	+ 0.03	- 0.26	70 and 150 R. P. L.
14	"	- 8.6	0.0	- 0.20	+ 0.22	+ 0.03	- 0.26	
15	"	- 8.2	0.0	- 0.28	+ 0.22	+ 0.03	- 0.27	
16	"	- 8.2	0.0	- 0.31	+ 0.22	+ 0.02	- 0.27	70 and 150 R. P. L.
19	"	- 8.0	0.0	- 0.21	+ 0.21	+ 0.03	- 0.26	
20	"	- 8.3	0.0	- 0.18	+ 0.21	+ 0.03	- 0.25	70 and 150 R. P. L.
21	"	- 8.4	0.0	- 0.18	+ 0.21	+ 0.03	- 0.24	
22	"	- 8.5	0.0	- 0.18	+ 0.22	+ 0.03	- 0.24	
23	"	- 8.9	0.0	- 0.20	+ 0.20	+ 0.02	- 0.23	
25	"	- 8.9	0.0	- 0.19	+ 0.22	+ 0.04	- 0.22	70 and 150 R. P. L.
26	"	- 9.1	0.0	- 0.21	+ 0.19	+ 0.02	- 0.22	
27	"	- 8.6	0.0	- 0.20	+ 0.23	+ 0.04	- 0.21	
28	"	- 8.5	0.0	- 0.21	+ 0.22	+ 0.02	- 0.21	
29	"	- 8.9	0.0	- 0.25	+ 0.22	+ 0.02	- 0.21	
30	"	- 7.7	0.0	- 0.17	+ 0.24	+ 0.02	- 0.21	
May 2	"	- 7.6	- 0.1	- 0.12	+ 0.27	+ 0.02	- 0.20	
3	"	- 8.1	- 0.1	- 0.02	+ 0.26	+ 0.05	- 0.20	72 and 150 R. P. L.
4	"	- 7.1	- 0.1	+ 0.03	+ 0.26	+ 0.02	- 0.26	
5	"	- 7.1	- 0.1	- 0.10	+ 0.28	+ 0.03	- 0.32	72 and 151 R. P. L.
6	"	- 7.2	- 0.1	- 0.02	+ 0.29	+ 0.05	- 0.29	
7	M	- 7.2	- 0.1	+ 0.06	+ 0.23	+ 0.04	- 0.26	
9	"	- 7.4	- 0.1	- 0.15	+ 0.34	+ 0.07	- 0.19	
10	"	- 6.7	- 0.1	- 0.14	+ 0.35	+ 0.03	- 0.16	79 and 13 R. P. L.
11	"	- 6.3	- 0.1	- 0.10	+ 0.35	+ 0.06	- 0.18	
12	"	- 6.5	- 0.1	- 0.08	+ 0.31	+ 0.04	- 0.20	
14	"	- 7.1	- 0.1	- 0.10	+ 0.33	+ 0.03	- 0.25	
16	"	- 6.8	- 0.1	- 0.21	+ 0.32	+ 0.04	- 0.20	89 R. P. L. & $\beta$ Centauri.
17	"	- 5.9	- 0.1	- 0.16	+ 0.33	+ 0.04	- 0.20	
18	"	- 6.6	- 0.1	- 0.13	+ 0.33	0.00	- 0.20	
19	"	- 7.5	- 0.1	- 0.10	+ 0.30	+ 0.03	- 0.19	
20	"	- 6.9	- 0.1	- 0.03	+ 0.32	+ 0.05	- 0.19	
21	"	- 7.4	- 0.1	- 0.05	+ 0.33	+ 0.02	- 0.19	99 R. P. L. and Polaris.

*Instrumental Corrections adopted in 1881.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 23	M	- 7.8	- 0.1	- 0.08	+ 0.37	+ 0.07	- 0.20	
24	"	- 6.8	- 0.1	- 0.15	+ 0.41	+ 0.05	- 0.20	
25	"	- 7.6	- 0.1	- 0.04	+ 0.40	- 0.01	- 0.20	
26	"	- 6.6	- 0.1	+ 0.01	+ 0.32	- 0.05	- 0.21	
27	"	- 7.5	- 0.1	- 0.13	+ 0.33	- 0.05	- 0.21	99 and 18 R. P. L.
28	"	- 6.2	- 0.1	- 0.12	+ 0.33	0.00	- 0.20	
30	"	- 6.5	- 0.1	- 0.01	+ 0.32	- 0.01	- 0.18	
31	"	- 6.6	- 0.1	- 0.03	+ 0.31	+ 0.01	- 0.17	
June 2	R	- 6.2	0.0	- 0.13	+ 0.29	0.00	- 0.14	
4	"	- 9.1	0.0	- 0.20	+ 0.33	+ 0.01	- 0.12	
6	"	- 8.2	0.0	- 0.15	+ 0.33	+ 0.02	- 0.10	
7	"	- 6.4	0.0	- 0.09	+ 0.31	+ 0.02	- 0.09	115 and 34 R. P. L.
15	"	- 8.4	0.0	- 0.08	+ 0.28	+ 0.03	- 0.17	
16	"	- 8.1	0.0	- 0.07	+ 0.29	+ 0.02	- 0.18	115 and 34 R. P. L.
17	"	- 8.2	0.0	+ 0.04	+ 0.28	+ 0.04	- 0.16	
18	"	- 8.1	0.0	+ 0.09	+ 0.27	+ 0.03	- 0.14	
21	"	- 7.9	0.0	+ 0.01	+ 0.30	+ 0.03	- 0.09	
22	"	- 8.4	0.0	- 0.01	+ 0.27	+ 0.04	- 0.07	115 and 34 R. P. L.
23	"	- 8.1	0.0	0.00	+ 0.28	+ 0.02	- 0.05	
24	"	- 8.2	0.0	+ 0.01	+ 0.27	+ 0.03	- 0.06	
25	"	- 8.2	0.0	- 0.05	+ 0.29	+ 0.04	- 0.05	
28	"	- 8.5	0.0	- 0.10	+ 0.25	+ 0.02	- 0.04	
29	"	- 8.6	0.0	- 0.13	+ 0.27	+ 0.02	- 0.03	ε Urs. Min. and 33 R. P. L.
30	"	- 8.2	0.0	- 0.14	+ 0.29	+ 0.04	- 0.02	
July 5	"	- 6.5	0.0	- 0.06	+ 0.26	+ 0.07	0.00	
11	"	- 6.5	0.0	- 0.07	+ 0.27	+ 0.05	+ 0.04	
13	"	- 8.8	0.0	- 0.10	+ 0.37	+ 0.05	+ 0.05	
14	"	- 8.9	0.0	- 0.11	+ 0.31	+ 0.01	+ 0.05	
16	"	- 9.2	0.0	- 0.06	+ 0.36	+ 0.04	+ 0.06	
18	"	- 8.8	0.0	- 0.11	+ 0.35	+ 0.04	+ 0.07	
19	"	- 9.3	0.0	- 0.12	+ 0.36	+ 0.02	+ 0.08	ε Urs. Min. and 34 R. P. L.
20	"	- 9.1	0.0	- 0.13	+ 0.36	+ 0.05	+ 0.10	
21	"	- 9.7	0.0	- 0.19	+ 0.35	+ 0.03	+ 0.12	
22	"	- 7.9	0.0	- 0.13	+ 0.40	+ 0.04	+ 0.13	
23	"	- 8.6	0.0	- 0.09	+ 0.34	+ 0.01	+ 0.15	
25	"	- 9.2	0.0	- 0.08	+ 0.37	+ 0.03	+ 0.19	
26	"	- 9.1	0.0	- 0.14	+ 0.35	+ 0.01	+ 0.21	ε Urs. Min. and 40 R. P. L.
27	"	- 9.1	0.0	- 0.16	+ 0.37	+ 0.03	+ 0.20	
28	"	- 9.0	0.0	- 0.06	+ 0.37	+ 0.04	+ 0.20	
29	"	- 9.1	0.0	- 0.02	+ 0.36	+ 0.02	+ 0.19	
30	"	- 9.0	0.0	- 0.05	+ 0.37	+ 0.03	+ 0.18	
Aug. 10	M	- 8.7	- 0.1	- 0.32	+ 0.27	+ 0.04	+ 0.10	
11	"	- 7.2	- 0.1	- 0.14	+ 0.30	+ 0.06	+ 0.10	
12	"	- 8.3	- 0.1	+ 0.07	+ 0.26	+ 0.02	+ 0.09	
13	"	- 6.2	- 0.1	- 0.01	+ 0.22	+ 0.01	+ 0.08	
15	"	- 7.5	- 0.1	- 0.21	+ 0.29	+ 0.02	+ 0.07	ε Urs. Min. and 60 R. P. L.
16	"	- 8.2	- 0.1	- 0.18	+ 0.27	+ 0.02	+ 0.08	
17	"	- 9.1	- 0.1	- 0.12	+ 0.27	+ 0.02	+ 0.09	
19	"	- 8.8	- 0.1	- 0.12	+ 0.29	+ 0.03	+ 0.10	
20	"	- 9.0	- 0.1	- 0.19	+ 0.28	+ 0.04	+ 0.11	
22	"	- 9.0	- 0.1	- 0.21	+ 0.29	+ 0.03	+ 0.12	
23	"	- 8.3	- 0.1	- 0.12	+ 0.27	+ 0.03	+ 0.13	ε Urs. Min. and 51 Cephei.
24	"	- 8.4	- 0.1	- 0.06	+ 0.28	+ 0.02	+ 0.12	
25	"	- 8.1	- 0.1	- 0.07	+ 0.28	+ 0.03	+ 0.11	
26	"	- 8.8	- 0.1	- 0.07	+ 0.27	+ 0.03	+ 0.10	
27	"	- 9.0	- 0.1	- 0.05	+ 0.27	+ 0.03	+ 0.10	

*Instrumental Corrections adopted in 1881.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Aug. 29	M	- 8.9	- 0.1	- 0.04	+ 0.25	+ 0.03	+ 0.08	3 Urs. Min. and 51 Cephei.
30	"	- 8.6	- 0.1	- 0.06	+ 0.24	+ 0.03	+ 0.07	
31	"	- 8.9	- 0.1	- 0.06	+ 0.24	+ 0.03	+ 0.06	
Sep. 2	"	- 8.1	- 0.1	- 0.03	+ 0.23	+ 0.03	+ 0.05	143, & 60 R. P. L. & 1887 [Radcliffe.
3	"	- 8.1	- 0.1	- 0.18	+ 0.23	+ 0.03	+ 0.04	
5	"	- 7.7	- 0.1	- 0.28	+ 0.25	+ 0.03	+ 0.04	
12	"	- 6.2	- 0.1	- 0.24	+ 0.22	+ 0.03	+ 0.04	
13	"	- 5.9	- 0.1	- 0.19	+ 0.21	+ 0.03	+ 0.04	
14	"	- 5.9	- 0.1	- 0.14	+ 0.20	+ 0.03	+ 0.04	143 and 60 R. P. L.
15	"	- 6.0	- 0.1	- 0.13	+ 0.19	+ 0.03	+ 0.04	143 R. P. L. & 1887 Radcliffe.
16	"	- 5.3	- 0.1	- 0.19	+ 0.20	+ 0.03	+ 0.04	
17	"	- 5.6	- 0.1	- 0.22	+ 0.19	+ 0.03	+ 0.02	
20	"	- 6.6	- 0.1	- 0.13	+ 0.23	+ 0.04	- 0.04	143 and 60 R. P. L.
21	"	- 2.3	- 0.1	- 0.12	+ 0.16	+ 0.03	- 0.06	
23	"	- 1.6	- 0.1	- 0.10	+ 0.11	+ 0.04	- 0.10	
24	"	- 2.3	- 0.1	- 0.10	+ 0.07	+ 0.03	- 0.12	
26	"	- 1.4	- 0.1	- 0.05	+ 0.06	+ 0.03	- 0.10	
27	"	- 2.2	- 0.1	- 0.15	+ 0.06	+ 0.03	- 0.08	
28	"	- 1.2	- 0.1	- 0.21	+ 0.06	+ 0.03	- 0.07	
29	"	- 0.5	- 0.1	- 0.14	+ 0.07	+ 0.03	- 0.06	
30	"	- 0.3	- 0.1	- 0.13	+ 0.07	+ 0.03	- 0.05	
Oct. 1	R	- 0.2	0.0	- 0.15	+ 0.06	+ 0.04	- 0.03	
3	"	- 2.9	0.0	- 0.27	+ 0.08	- 0.01	- 0.02	
4	"	- 1.5	0.0	- 0.30	+ 0.06	+ 0.01	- 0.01	
5	"	- 1.5	0.0	- 0.24	+ 0.09	+ 0.02	+ 0.01	158 and 60 R. P. L.
7	"	- 0.6	0.0	- 0.12	+ 0.04	+ 0.02	+ 0.03	
8	"	- 1.3	0.0	- 0.12	+ 0.06	+ 0.03	+ 0.03	
10	"	- 1.3	0.0	- 0.14	+ 0.08	+ 0.02	+ 0.02	
11	"	- 1.7	0.0	- 0.11	+ 0.09	+ 0.02	+ 0.02	
12	"	- 2.2	0.0	- 0.10	+ 0.06	+ 0.01	- 0.01	143 and 60 R. P. L.
13	"	- 3.1	0.0	- 0.10	+ 0.10	+ 0.02	- 0.05	
14	"	- 2.2	0.0	- 0.06	+ 0.10	+ 0.02	- 0.06	
15	"	- 2.3	0.0	- 0.05	+ 0.07	+ 0.02	- 0.09	150 and 60 R. P. L.
17	"	- 2.5	0.0	- 0.12	+ 0.10	+ 0.02	- 0.02	
18	"	- 2.6	0.0	- 0.15	+ 0.09	+ 0.03	+ 0.02	
19	"	- 1.7	0.0	- 0.10	+ 0.09	+ 0.03	+ 0.05	150 and 60 R. P. L.
20	"	- 1.5	0.0	- 0.08	+ 0.09	+ 0.02	+ 0.06	
21	"	- 1.2	0.0	- 0.21	+ 0.09	+ 0.02	+ 0.06	
22	"	- 1.0	0.0	- 0.30	+ 0.10	+ 0.02	+ 0.07	150 and 60 R. P. L.
24	"	- 0.9	0.0	- 0.20	+ 0.08	+ 0.01	+ 0.07	
25	"	- 1.6	0.0	- 0.20	+ 0.05	0.00	+ 0.08	
26	"	- 1.3	0.0	- 0.20	+ 0.08	+ 0.01	+ 0.08	2 Urs. Min. and 70 R. P. L.
27	"	- 1.4	0.0	- 0.21	+ 0.08	+ 0.01	+ 0.08	
28	"	- 1.3	0.0	- 0.23	+ 0.07	+ 0.01	+ 0.09	
29	"	- 1.4	0.0	- 0.24	+ 0.08	+ 0.01	+ 0.09	150 and 72 R. P. L.
31	"	- 0.4	0.0	- 0.26	+ 0.08	+ 0.02	+ 0.09	
Nov. 2	M	- 9.4	- 0.1	- 0.23	+ 0.07	+ 0.04	+ 0.08	
5	"	- 6.2	- 0.1	- 0.14	+ 0.06	+ 0.04	+ 0.03	
7	"	- 4.6	- 0.1	- 0.18	+ 0.04	+ 0.03	+ 0.01	
9	"	- 3.1	- 0.1	- 0.34	- 0.01	+ 0.03	- 0.01	158 and 89 R. P. L.
10	"	- 1.8	- 0.1	- 0.42	- 0.03	+ 0.03	- 0.02	
14	"	+ 0.3	- 0.1	- 0.36	- 0.23	+ 0.09	- 0.05	
16	"	+ 1.4	- 0.1	- 0.28	- 0.08	+ 0.11	- 0.06	158 and 89 R. P. L.
17	"	+ 1.0	- 0.1	- 0.15	- 0.01	+ 0.12	- 0.04	
18	"	+ 2.3	- 0.1	- 0.08	- 0.07	+ 0.05	- 0.02	
21	"	- 0.1	- 0.1	- 0.34	- 0.09	+ 0.03	+ 0.05	

*Instrumental Corrections adopted in 1881.*

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Nov. 23	M	- 1.3	- 0.1	- 0.36	- 0.08	+ 0.04	+ 0.10	158 and 89 R. P. L.
24	"	- 0.1	- 0.1	- 0.29	- 0.10	+ 0.04	+ 0.10	
25	"	- 0.3	- 0.1	- 0.29	- 0.10	+ 0.03	+ 0.11	
26	"	- 0.3	- 0.1	- 0.33	- 0.10	+ 0.03	+ 0.11	
30	"	- 0.3	- 0.1	- 0.27	- 0.06	+ 0.03	+ 0.12	
Dec. 1	R	- 1.0	0.0	- 0.28	- 0.01	+ 0.02	+ 0.12	14 and 99 R. P. L.
2	"	- 2.3	0.0	- 0.31	- 0.03	+ 0.02	+ 0.13	
5	"	- 1.8	0.0	- 0.41	- 0.01	+ 0.03	+ 0.14	
6	"	- 1.8	0.0	- 0.43	- 0.01	+ 0.03	+ 0.14	
7	"	- 2.2	0.0	- 0.38	- 0.02	+ 0.03	+ 0.14	
12	"	- 0.8	0.0	- 0.28	+ 0.08	+ 0.05	+ 0.16	
14	"	- 1.6	0.0	- 0.25	+ 0.09	+ 0.04	+ 0.17	
15	"	- 1.6	0.0	- 0.27	+ 0.10	+ 0.03	+ 0.17	
16	"	- 1.4	0.0	- 0.29	+ 0.10	+ 0.06	+ 0.17	
17	"	- 2.3	0.0	- 0.32	+ 0.09	+ 0.05	+ 0.18	
21	"	- 2.1	0.0	- 0.32	+ 0.08	+ 0.05	+ 0.20	
22	"	- 1.8	0.0	- 0.37	+ 0.05	+ 0.06	+ 0.21	
23	"	- 2.1	0.0	- 0.39	+ 0.05	+ 0.06	+ 0.21	
24	"	- 2.2	0.0	- 0.40	+ 0.05	+ 0.06	+ 0.20	
26	"	- 1.8	0.0	- 0.50	+ 0.03	+ 0.03	+ 0.19	
27	"	- 1.5	0.0	- 0.50	+ 0.06	+ 0.03	+ 0.18	

*Instrumental Corrections adopted in 1882.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 3	M	+ 2.0	0.0	- 0.25	+ 0.09	+ 0.07	+ 0.11	33 and 114 R. P. L.
4	"	+ 1.9	0.0	- 0.28	+ 0.10	+ 0.07	+ 0.10	
5	"	+ 2.1	0.0	- 0.34	+ 0.09	+ 0.06	+ 0.09	
6	"	+ 1.2	0.0	- 0.32	+ 0.14	+ 0.08	+ 0.09	
7	"	+ 1.1	0.0	- 0.36	+ 0.14	+ 0.04	+ 0.08	
9	"	+ 1.6	0.0	- 0.47	+ 0.18	+ 0.06	+ 0.06	
10	"	- 0.9	0.0	- 0.46	+ 0.15	+ 0.05	+ 0.06	
11	"	- 1.0	0.0	- 0.40	+ 0.17	+ 0.07	+ 0.05	41 and 108 R. P. L.
12	"	- 0.4	0.0	- 0.36	+ 0.13	+ 0.05	+ 0.05	
13	R	- 2.2	0.0	- 0.34	+ 0.09	+ 0.06	+ 0.05	
14	M	- 2.5	0.0	- 0.34	+ 0.07	+ 0.03	+ 0.04	41 and 108 R. P. L.
16	"	- 3.0	0.0	- 0.50	+ 0.10	+ 0.03	+ 0.03	
17	"	- 2.9	0.0	- 0.43	+ 0.12	+ 0.03	+ 0.03	
18	"	- 2.5	0.0	- 0.38	+ 0.11	+ 0.03	+ 0.02	
19	"	- 3.9	0.0	- 0.43	+ 0.11	+ 0.03	+ 0.00	41 R. P. L. and $\epsilon$ Urs. Min.
20	"	- 3.4	0.0	- 0.34	+ 0.10	+ 0.04	+ 0.01	
21	"	- 2.6	0.0	- 0.38	+ 0.10	+ 0.03	+ 0.03	
23	"	- 2.6	0.0	- 0.45	+ 0.13	+ 0.04	+ 0.05	41 R. P. L. and $\epsilon$ Urs. Min.
24	"	- 4.0	0.0	- 0.34	+ 0.11	+ 0.03	+ 0.05	
25	"	- 5.0	0.0	- 0.39	+ 0.13	+ 0.04	+ 0.05	
26	"	- 5.3	0.0	- 0.44	+ 0.12	+ 0.05	+ 0.05	
27	"	- 4.9	0.0	- 0.42	+ 0.12	+ 0.04	+ 0.05	
28	"	- 5.3	0.0	- 0.40	+ 0.10	+ 0.04	+ 0.05	41 R. P. L. and $\epsilon$ Urs. Min.
30	"	- 6.6	0.0	- 0.50	+ 0.10	+ 0.04	+ 0.10	
31	"	- 7.0	0.0	- 0.43	+ 0.15	+ 0.05	+ 0.13	
Feb. 1	R	- 7.5	- 0.1	- 0.25	+ 0.19	+ 0.04	+ 0.15	41 R. P. L. and $\epsilon$ Urs. Min.
2	"	- 6.8	- 0.1	- 0.28	+ 0.14	+ 0.06	+ 0.18	41 R. P. L. and $\delta$ Urs. Min.
3	"	- 7.9	- 0.1	- 0.33	+ 0.16	+ 0.07	+ 0.15	
4	"	- 8.0	- 0.1	- 0.29	+ 0.14	+ 0.04	+ 0.13	41 R. P. L. & 24 Urs. Min.
6	"	- 8.4	- 0.1	- 0.36	+ 0.08	+ 0.04	+ 0.11	
7	"	- 8.3	- 0.1	- 0.33	+ 0.15	+ 0.06	+ 0.09	
8	"	- 8.0	- 0.1	- 0.25	+ 0.14	+ 0.06	+ 0.08	
9	"	- 9.4	- 0.1	- 0.30	+ 0.15	+ 0.07	+ 0.07	41 R. P. L. and 24 Urs. Min.
10	"	- 8.7	- 0.1	- 0.32	+ 0.16	+ 0.05	+ 0.08	
11	"	- 9.1	- 0.1	- 0.41	+ 0.16	+ 0.05	+ 0.09	
13	"	- 8.7	- 0.1	- 0.47	+ 0.15	+ 0.04	+ 0.11	
14	"	- 9.1	- 0.1	- 0.44	+ 0.19	+ 0.06	+ 0.18	70 and 153 R. P. L.
15	"	- 8.7	- 0.1	- 0.43	+ 0.20	+ 0.06	+ 0.16	
16	"	- 8.8	- 0.1	- 0.40	+ 0.18	+ 0.05	+ 0.13	
17	"	- 8.6	- 0.1	- 0.42	+ 0.22	+ 0.06	+ 0.11	
18	"	- 7.7	- 0.1	- 0.42	+ 0.21	+ 0.02	+ 0.09	70 R. P. L. & 2 Urs. Min.
20	"	- 7.8	- 0.1	- 0.37	+ 0.25	+ 0.07	+ 0.08	
21	"	- 8.8	- 0.1	- 0.32	+ 0.25	+ 0.06	+ 0.07	
22	"	- 9.0	- 0.1	- 0.33	+ 0.25	+ 0.04	+ 0.07	70 and 153 R. P. L.
23	"	- 9.3	- 0.1	- 0.36	+ 0.23	+ 0.02	+ 0.07	
24	"	- 9.4	- 0.1	- 0.36	+ 0.24	+ 0.04	+ 0.06	
25	"	- 9.2	- 0.1	- 0.33	+ 0.26	+ 0.05	+ 0.06	89 and 153 R. P. L.
27	"	- 9.1	- 0.1	- 0.35	+ 0.26	+ 0.07	+ 0.03	
28	"	- 9.5	- 0.1	- 0.22	+ 0.24	+ 0.05	+ 0.03	
Mar. 1	M	- 7.7	0.0	- 0.19	+ 0.27	+ 0.04	+ 0.03	
2	"	- 8.3	0.0	- 0.36	+ 0.26	+ 0.03	+ 0.02	
3	"	- 10.4	0.0	- 0.41	+ 0.21	+ 0.03	+ 0.02	
4	"	- 8.4	0.0	- 0.42	+ 0.22	+ 0.03	+ 0.02	
6	"	- 0.8	0.0	- 0.46	+ 0.25	+ 0.03	+ 0.04	72 and 153 R. P. L.
7	"	- 0.0	0.0	- 0.29	+ 0.25	+ 0.04	+ 0.02	
8	"	- 1.6	0.0	- 0.18	+ 0.26	+ 0.04	+ 0.03	
9	"	- 1.6	0.0	- 0.32	+ 0.28	+ 0.04	+ 0.04	

*Instrumental Corrections adopted in 1882.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Mar. 10	M	- 0.7	0.0	- 0.33	+ 0.27	+ 0.04	+ 0.05	
11	"	- 0.1	0.0	- 0.31	+ 0.27	+ 0.04	+ 0.06	
13	"	- 1.7	0.0	- 0.14	+ 0.29	+ 0.05	+ 0.08	
14	"	- 0.8	0.0	- 0.17	+ 0.27	+ 0.03	+ 0.09	
15	"	- 2.8	0.0	- 0.28	+ 0.29	+ 0.04	+ 0.10	79 and 158 R. P. L.
16	"	- 1.6	0.0	- 0.23	+ 0.28	+ 0.03	+ 0.04	72 R. P. L. and $\gamma$ Urs. Maj.
17	"	- 0.5	0.0	- 0.25	+ 0.30	+ 0.04	+ 0.08	55, 69, 131 R. P. L., 24 Ursae Minoris and 51 Cephei.
18	"	- 1.3	0.0	- 0.28	+ 0.31	+ 0.04	+ 0.07	48, 55, 62, 69, 72, 131, 138 R. P. L. 24 Urs. Min., and 76 Draconis.
21	"	+ 0.3	0.0	- 0.25	+ 0.34	+ 0.04	+ 0.05	80, 153, and 149 R. P. L.
22	"	- 0.6	0.0	- 0.30	+ 0.36	+ 0.03	+ 0.11	53, 55, 62, 131, & 153 R. P. L.
23	"	- 0.6	0.0	- 0.41	+ 0.37	+ 0.03	+ 0.04	53, 55, 62, 80, 131, & 153 R. P. L.
24	"	- 0.9	0.0	- 0.31	+ 0.38	+ 0.04	+ 0.18	80, 149 R. P. L. and 51 Cephei.
25	"	0.0	0.0	- 0.26	+ 0.39	+ 0.04	+ 0.15	48, 53, 55, 62, 79, 131, 153 R. P. L. and 51 Cephei.
27	"	0.0	0.0	- 0.42	+ 0.39	+ 0.03	+ 0.13	62, 143 R. P. L. and 51 Cephei.
28	"	0.0	0.0	- 0.36	+ 0.42	+ 0.04	+ 0.02	80, 149, 153 R. P. L. and 51 Cephei.
29	"	+ 1.2	0.0	- 0.32	+ 0.41	+ 0.04	+ 0.05	48, 55, 62, 79, 81, 138, 149, 152 R. P. L. and 51 Cephei.
30	"	0.0	0.0	- 0.36	+ 0.38	+ 0.04	+ 0.07	48, 55, 62, 80, 81, 138, 149, 153, 158 R. P. L. and 51 Cephei.
31	"	+ 0.2	0.0	- 0.33	+ 0.39	+ 0.04	+ 0.09	48, 55, 62, 80, 81, 138, 149, 152, and 158 R. P. L.
Apr. 1	R	+ 0.2	0.0	- 0.27	+ 0.43	+ 0.02	+ 0.08	48, 55, 62, 80, 81, 133, 138, 149, 152, 158, 162, R. P. L. and 76 Draconis.
3	"	- 0.2	0.0	- 0.32	+ 0.45	+ 0.03	+ 0.08	62, 80, 81, 89, 149, 152, 155, & 162 R. P. L.
4	"	- 1.9	0.0	- 0.37	+ 0.43	+ 0.03	+ 0.06	48, 53, 80, 81, 82, 89, 133, 138, 143, 149, 152, & 162 R. P. L.
5	"	- 2.4	0.0	- 0.36	+ 0.43	+ 0.04	+ 0.08	48, 53, 55, 81, 89, 138, 149, 152, 155, 162 R. P. L. and 76 Draconis.
6	"	- 1.1	0.0	- 0.31	+ 0.43	+ 0.04	+ 0.10	48, 53, 81, 82, 89, 133, 138, 162 R. P. L. and 76 Dra- conis.
7	"	- 1.1	0.0	- 0.32	+ 0.44	+ 0.03	+ 0.15	48, 53, 81, 82, 133, 138, 143, 152, & 162 R. P. L.
8	"	- 2.1	0.0	- 0.35	+ 0.45	+ 0.02	+ 0.09	53, 80, 81, 138, 143, 152, 155, 162 R. P. L. and 76 Draconis.
10	"	0.0	0.0	- 0.36	+ 0.45	+ 0.04	+ 0.13	53, 79, 143, 152, 155, and 162 R. P. L.
11	"	- 0.2	0.0	- 0.35	+ 0.43	+ 0.03	+ 0.10	53, 79, 89, 143, 152, 155, 162, and 4 R. P. L.
15	"	+ 0.6	0.0	- 0.34	+ 0.48	+ 0.04	+ 0.19	82, 97, 98, 143, 155, 162, and 4 R. P. L.
17	"	- 0.4	0.0	- 0.37	+ 0.46	+ 0.04	+ 0.17	82, 89, 97, 99, 155, & 4 R. P. L.
18	"	+ 0.2	0.0	- 0.40	+ 0.49	+ 0.05	+ 0.16	82, 89, 97, 98, 155, 4, and 14 R. P. L.
19	"	+ 0.4	0.0	- 0.32	+ 0.53	+ 0.08	+ 0.24	82, 97, 98, 155, & 14 R. P. L.
20	"	- 0.1	0.0	- 0.18	+ 0.48	+ 0.05	+ 0.19	

*Instrumental Corrections adopted in 1882.*

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.
		"	"	s	s	s	s	
Apl. 21	R	- 0.1	0.0	- 0.20	+ 0.49	+ 0.06	+ 0.14	79, 82, 98, 155, & 14 R. P. L.
22	"	- 0.7	0.0	- 0.26	+ 0.49	+ 0.07	+ 0.20	79, 82, 97, 14 R. P. L. and 2 Ursæ Minoris.
27	"	+ 1.4	0.0	- 0.28	+ 0.54	+ 0.07	+ 0.25	82, 98, 4 R. P. L. and 2 Ursæ Minoris.
28	"	+ 1.3	0.0	- 0.21	+ 0.54	+ 0.08	+ 0.31	97, 98, 100, 4 R. P. L. and 2 Ursæ Minoris.
29	"	+ 0.6	0.0	- 0.13	+ 0.46	0.00	+ 0.17	97, 98, and 4 R. P. L.
May 1	M	+ 1.3	0.0	- 0.22	+ 0.52	+ 0.04	+ 0.19	97, 100, 103, 108, 110, 111, 114, 4, & 14 R. P. L.
2	"	+ 1.1	0.0	- 0.25	+ 0.50	+ 0.03	+ 0.17	97, 100, 110, 114, 4, 14, 33, 35 R. P. L. and Polaris.
3	"	+ 0.9	0.0	- 0.21	+ 0.52	+ 0.03	+ 0.17	97, 101, 108, 114, 14, 33 and 35 R. P. L.
4	"	+ 1.3	0.0	- 0.24	+ 0.56	+ 0.04	+ 0.11	100, 108, 110, 114, 115, 4, 18, and 35 R. P. L.
5	"	+ 1.3	0.0	- 0.33	+ 0.53	+ 0.04	+ 0.12	100, 108, 115, 18, 33, and 35 R. P. L.
6	"	+ 1.6	0.0	- 0.30	+ 0.57	+ 0.04	+ 0.18	100, 110, 111, 115, 18 and 35 R. P. L.
8	"	+ 1.9	0.0	- 0.29	+ 0.55	+ 0.04	+ 0.20	100, 117, 18 and 35 R. P. L.
9	"	+ 1.9	0.0	- 0.28	+ 0.55	+ 0.03	+ 0.22	100, 110, 117, 35 R. P. L. and Polaris.
10	"	+ 3.2	0.0	- 0.22	+ 0.55	+ 0.03	+ 0.23	110 and 18 R. P. L.
11	"	+ 1.8	0.0	- 0.15	+ 0.54	+ 0.04	+ 0.20	
12	"	+ 1.4	0.0	- 0.08	+ 0.54	+ 0.04	+ 0.17	100 and 18 R. P. L.
13	"	+ 2.0	0.0	- 0.08	+ 0.54	+ 0.04	+ 0.17	
15	"	+ 2.2	0.0	- 0.17	+ 0.53	+ 0.03	+ 0.17	100 and 18 R. P. L.
16	"	+ 2.3	0.0	- 0.29	+ 0.54	+ 0.04	+ 0.20	
17	"	+ 2.8	0.0	- 0.27	+ 0.53	+ 0.04	+ 0.22	101 R. P. L. and ε Serpentis.
18	"	+ 2.7	0.0	- 0.13	+ 0.53	+ 0.04	+ 0.22	
20	"	+ 2.6	0.0	- 0.19	+ 0.52	+ 0.04	+ 0.22	
22	"	+ 2.7	0.0	- 0.24	+ 0.56	+ 0.04	+ 0.22	101, 110, R. P. L. and Polaris.
23	"	+ 3.3	0.0	- 0.24	+ 0.57	+ 0.04	+ 0.27	101, 110, 26, & 35 R. P. L.
24	"	+ 3.2	0.0	- 0.22	+ 0.56	+ 0.03	+ 0.27	
25	"	+ 2.9	0.0	- 0.17	+ 0.59	+ 0.04	+ 0.27	117, 35 R. P. L. and ε Ursæ Minoris.
26	"	+ 3.1	0.0	- 0.15	+ 0.58	+ 0.03	+ 0.34	101, 110, 116, & 26 R. P. L.
27	"	+ 2.8	0.0	- 0.19	+ 0.58	+ 0.04	+ 0.35	103, 117, & 26 R. P. L.
29	"	+ 3.2	0.0	- 0.19	+ 0.60	+ 0.04	+ 0.41	103, 118, & 26 R. P. L.
30	"	+ 3.0	0.0	- 0.14	+ 0.59	+ 0.04	+ 0.37	101, 116, & 26 R. P. L.
31	"	+ 2.5	0.0	0.00	+ 0.57	+ 0.04	+ 0.35	
June 5	R	+ 2.4	+ 0.1	+ 0.15	+ 0.69	+ 0.10	+ 0.32	
6	"	+ 3.2	+ 0.1	+ 0.14	+ 0.60	+ 0.04	+ 0.32	
8	"	+ 3.3	+ 0.1	+ 0.21	+ 0.64	+ 0.05	+ 0.31	
10	"	+ 3.1	+ 0.1	+ 0.25	+ 0.62	+ 0.04	+ 0.30	
13	"	+ 1.9	+ 0.1	+ 0.24	+ 0.63	+ 0.01	+ 0.29	
14	"	+ 2.0	+ 0.1	+ 0.25	+ 0.63	+ 0.04	+ 0.28	
15	"	+ 2.2	+ 0.1	+ 0.20	+ 0.64	+ 0.05	+ 0.28	117 and 37 R. P. L.
16	"	+ 2.2	+ 0.1	+ 0.12	+ 0.65	+ 0.04	+ 0.32	
17	"	+ 2.2	+ 0.1	+ 0.13	+ 0.63	+ 0.05	+ 0.36	
19	"	+ 2.1	+ 0.1	+ 0.20	+ 0.66	+ 0.04	+ 0.45	
20	"	+ 2.1	+ 0.1	+ 0.13	+ 0.66	+ 0.04	+ 0.49	118, 26, & 37 R. P. L.
21	"	+ 2.2	+ 0.1	+ 0.04	+ 0.64	+ 0.06	+ 0.56	101 and 26 R. P. L.
22	"	+ 2.2	+ 0.1	+ 0.03	+ 0.66	+ 0.08	+ 0.59	101 and 26 R. P. L.



*Instrumental Corrections adopted in 1882.*

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
June 23	R	+ 4.1	+ 0.1	0.00	+ 0.57	+ 0.04	+ 0.55	
24	"	+ 4.1	+ 0.1	- 0.02	+ 0.63	+ 0.04	+ 0.51	
26	"	+ 3.2	+ 0.1	- 0.13	+ 0.62	+ 0.04	+ 0.44	δ Urs. Min. and 39 R.P.L.
27	"	+ 2.9	+ 0.1	- 0.05	+ 0.57	+ 0.02	+ 0.33	117 and 37 R. P. L.
28	"	+ 3.4	+ 0.1	+ 0.06	+ 0.57	+ 0.04	+ 0.44	117, 120, 37, & 39 R. P. L.
29	"	+ 2.8	+ 0.1	+ 0.06	+ 0.60	+ 0.05	+ 0.42	
July 12	"	+ 3.7	0.0	+ 0.21	+ 0.45	+ 0.04	+ 0.41	
17	"	+ 2.8	0.0	+ 0.16	+ 0.54	+ 0.06	+ 0.41	
18	"	+ 3.0	0.0	+ 0.23	+ 0.53	+ 0.04	+ 0.41	
19	"	+ 3.2	0.0	+ 0.39	+ 0.54	+ 0.03	+ 0.41	
20	"	+ 3.3	0.0	+ 0.41	+ 0.55	+ 0.04	+ 0.41	
21	"	+ 3.1	0.0	+ 0.48	+ 0.54	+ 0.04	+ 0.41	
22	"	+ 3.5	0.0	+ 0.48	+ 0.62	+ 0.06	+ 0.41	
24	"	+ 2.2	0.0	+ 0.34	+ 0.46	+ 0.05	+ 0.41	118 and 37 R. P. L.
26	"	+ 2.7	0.0	+ 0.29	+ 0.47	+ 0.05	+ 0.51	120 and 40 R. P. L.
27	"	+ 2.7	0.0	+ 0.27	+ 0.49	+ 0.04	+ 0.51	
29	"	+ 2.0	0.0	+ 0.34	+ 0.53	+ 0.06	+ 0.52	
Aug. 3	M	+ 2.1	- 0.1	+ 0.46	+ 0.46	+ 0.02	+ 0.53	
8	"	+ 1.4	- 0.1	+ 0.54	+ 0.49	+ 0.04	+ 0.53	
9	"	+ 3.1	- 0.1	+ 0.47	+ 0.47	+ 0.03	+ 0.54	
11	"	+ 1.9	- 0.1	+ 0.33	+ 0.48	+ 0.08	+ 0.54	118, 37 R.P.L. & 51 Cephei.
14	"	+ 3.6	- 0.1	+ 0.45	+ 0.47	+ 0.07	+ 0.49	
15	"	+ 2.3	- 0.1	+ 0.52	+ 0.44	+ 0.03	+ 0.46	
17	"	+ 2.3	- 0.1	+ 0.59	+ 0.45	+ 0.03	+ 0.45	ε Urs. Min. and 37 R.P.L.
18	"	+ 2.7	- 0.1	+ 0.48	+ 0.45	+ 0.04	+ 0.45	118, 37 R.P.L., δ Ursæ Minoris & 24 Ursæ Minoris.
19	"	+ 3.0	- 0.1	+ 0.41	+ 0.43	+ 0.04	+ 0.48	
21	"	+ 2.9	- 0.1	+ 0.47	+ 0.44	+ 0.04	+ 0.53	134, 45, & 41 R. P. L.
22	"	+ 2.9	- 0.1	+ 0.52	+ 0.40	+ 0.04	+ 0.60	134 R. P. L. & 51 Cephei.
23	"	+ 2.9	- 0.1	+ 0.50	+ 0.40	+ 0.04	+ 0.59	134, 40, & 49 R. P. L.
24	"	+ 2.8	- 0.1	+ 0.46	+ 0.39	+ 0.03	+ 0.58	
28	"	+ 2.0	- 0.1	+ 0.42	+ 0.39	+ 0.03	+ 0.54	134, 138 49, & 60 R. P. L.
29	"	+ 3.3	- 0.1	+ 0.45	+ 0.39	+ 0.03	+ 0.53	
30	"	+ 4.1	- 0.1	+ 0.47	+ 0.37	+ 0.03	+ 0.53	120, 40 R.P.L. & 51 Cephei.
31	"	+ 3.4	- 0.1	+ 0.42	+ 0.37	+ 0.04	+ 0.49	δ Urs. Min., 40, & 41 R.P.L.
Sept. 2	R	+ 2.4	0.0	- 0.46	+ 0.37	+ 0.03	+ 0.50	
9	M	+ 3.1	0.0	- 0.66	+ 0.35	+ 0.04	+ 0.54	
11	R	+ 3.3	0.0	- 0.69	+ 0.36	+ 0.04	+ 0.56	
13	"	+ 2.4	0.0	- 0.77	+ 0.34	+ 0.04	+ 0.57	
15	"	+ 2.4	0.0	- 0.65	+ 0.38	+ 0.03	+ 0.58	ε Delphini and 53 R. P. L.
16	"	+ 2.8	0.0	- 0.62	+ 0.36	+ 0.05	+ 0.58	76 Draconis and 53 R.P.L.
18	"	+ 2.5	0.0	- 0.87	+ 0.32	+ 0.04	+ 0.57	
19	"	+ 2.6	0.0	- 0.90	+ 0.35	+ 0.05	+ 0.58	
20	"	+ 2.5	0.0	- 0.87	+ 0.38	+ 0.03	+ 0.59	
21	"	+ 2.4	0.0	- 0.76	+ 0.35	+ 0.05	+ 0.59	133, 150, 48, & 53 R. P. L.
22	"	+ 1.6	0.0	- 0.76	+ 0.31	+ 0.03	+ 0.56	
23	"	+ 1.6	0.0	- 0.81	+ 0.33	+ 0.04	+ 0.53	138 and 53 R. P. L.
25	"	+ 2.3	0.0	- 0.79	+ 0.31	+ 0.03	+ 0.53	
26	"	+ 2.6	0.0	- 0.79	+ 0.31	+ 0.03	+ 0.53	
Oct. 4	M	+ 2.3	0.0	- 0.56	+ 0.28	+ 0.03	+ 0.54	151 and 60 R. P. L.
5	"	+ 1.8	0.0	- 0.59	+ 0.26	+ 0.03	+ 0.52	133, 152, 49, 53, & 60 R.P.L.
6	"	+ 2.0	0.0	- 0.62	+ 0.27	+ 0.03	+ 0.51	138 and 60 R. P. L.
7	"	+ 1.0	0.0	- 0.63	+ 0.25	+ 0.02	+ 0.54	152, 55, 60, & 62 R. P. L.
13	"	+ 3.3	0.0	- 0.60	+ 0.23	+ 0.03	+ 0.49	
16	"	+ 7.8	0.0	- 0.34	+ 0.17	+ 0.03	+ 0.42	151, 152, 162, 60, 80, 81 R.P.L.

*Instrumental Corrections adopted in 1882.*

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian	Determining Stars.
		"	"	s	s	s	s	
Oct. 17	M	+ 8.4	0.0	- 0.40	+ 0.15	+ 0.08	+ 0.45	$\alpha$ Crvis and 155 R. P. L.
18	"	+ 7.8	0.0	- 0.55	+ 0.12	+ 0.04	+ 0.48	149, 151, 152, 155, 162, 55, and 80 R. P. L.
20	"	+ 8.0	0.0	- 0.59	+ 0.12	+ 0.04	+ 0.48	152, 155, 55, 62, & 69 R. P. L.
21	"	+ 8.7	0.0	- 0.59	+ 0.10	+ 0.04	+ 0.41	
24	"	+ 10.7	0.0	- 0.64	+ 0.08	+ 0.04	+ 0.37	138, 149, 152, 155, 162, 55, 69, & 79 R. P. L.
25	"	+ 10.8	0.0	- 0.62	+ 0.06	+ 0.04	+ 0.40	138, 149, 152, 162, 55, 69, 80, 82, & 90 R. P. L.
26	"	+ 11.1	0.0	- 0.59	+ 0.06	+ 0.04	+ 0.40	
Nov. 1	R	+ 10.4	0.0	- 0.55	+ 0.09	+ 0.05	+ 0.38	152, 155, 81, & 62 R. P. L.
2	"	+ 10.1	0.0	- 0.51	+ 0.07	+ 0.08	+ 0.41	
3	"	+ 9.7	0.0	- 0.52	+ 0.07	+ 0.08	+ 0.44	152, 162, 69, 81, & 90 R. P. L.
6	"	+ 10.7	0.0	- 0.54	+ 0.10	+ 0.04	+ 0.44	149, 152, 4, 69, 87, 90 R. P. L.
7	"	+ 9.7	0.0	- 0.60	+ 0.11	+ 0.04	+ 0.41	149, 4, 69, 80, & 81 R. P. L.
8	"	+ 9.9	0.0	- 0.56	+ 0.09	+ 0.04	+ 0.39	149, 155, 4, 80, & 82 R. P. L.
9	"	+ 10.3	0.0	- 0.57	+ 0.09	+ 0.03	+ 0.42	149, 155, & 80 R. P. L.
10	"	+ 10.0	0.0	- 0.61	+ 0.12	+ 0.04	+ 0.42	155, 18, 62, & 98 R. P. L.
11	"	+ 9.9	0.0	- 0.58	+ 0.12	+ 0.03	+ 0.46	149, 80, & 99 R. P. L.
13	"	+ 9.7	0.0	- 0.64	+ 0.09	+ 0.03	+ 0.43	155 and 80 R. P. L.
14	"	+ 8.8	0.0	- 0.66	+ 0.10	+ 0.04	+ 0.43	4 and 99 R. P. L.
17	"	+ 11.6	0.0	- 0.50	+ 0.02	+ 0.08	+ 0.29	155 and 80 R. P. L.
18	"	+ 13.7	0.0	- 0.44	+ 0.04	+ 0.05	+ 0.30	155 and 80 R. P. L.
Dec. 1	M	+ 7.5	- 0.1	- 0.35	+ 0.24	+ 0.03	+ 0.39	162 & 81 R. P. L.
2	"	+ 7.9	- 0.1	- 0.18	+ 0.34	+ 0.05	+ 0.38	4, 90, & 82 R. P. L.
4	"	+ 6.2	- 0.1	+ 0.17	+ 0.32	+ 0.04	+ 0.33	4, 14, 26, 81, 90, 93, 101, and 108 R. P. L.
5	"	+ 5.0	- 0.1	+ 0.21	+ 0.32	+ 0.04	+ 0.38	4, 14, 18, 26, 82, 89, 90, 98, and 108 R. P. L.
7	"	+ 5.4	- 0.1	+ 0.36	+ 0.26	+ 0.03	+ 0.35	4, 14, 18, 26, 81, 90, 99, 108, and 114 R. P. L.
8	"	+ 5.7	- 0.1	+ 0.38	+ 0.27	+ 0.04	+ 0.37	4, 14, 18, 81, 103, 110, and 114 R. P. L.
11	R	+ 0.3	- 0.1	+ 0.20	+ 0.21	+ 0.04	+ 0.33	4, 33, 81, & 110 R. P. L.
12	"	- 0.9	- 0.1	+ 0.25	+ 0.24	+ 0.04	+ 0.38	14, 34, 81, 89, 90, 97, 110, and 111 R. P. L.
13	"	- 1.2	- 0.1	+ 0.42	+ 0.26	+ 0.03	+ 0.34	162, 34, 89, 90, 97, 98, 110 R. P. L. & 2 Ursæ Minoris.
14	M	- 0.8	- 0.1	+ 0.42	+ 0.25	+ 0.04	+ 0.41	14, 18, 34, 82, 89, 93, 97, 108, & 110 R. P. L.
15	"	- 0.6	- 0.1	+ 0.31	+ 0.24	+ 0.04	+ 0.33	34, 89, 93, 97, & 110 R. P. L.
16	"	- 1.1	- 0.1	+ 0.31	+ 0.25	+ 0.04	+ 0.33	34, 162, 89, 93, 101, and 110 R. P. L.
18	"	- 0.9	- 0.1	+ 0.42	+ 0.25	+ 0.03	+ 0.29	162, 34, 35, & 89 R. P. L.
19	"	- 0.9	- 0.1	+ 0.35	+ 0.24	+ 0.04	+ 0.34	162, 18, 89, 97, 98, and 115 R. P. L.
20	"	- 1.7	- 0.1	+ 0.29	+ 0.25	+ 0.04	+ 0.36	10, 18, 34, 35, 89, 97, 103, and 115 R. P. L.
21	"	- 2.6	- 0.1	+ 0.44	+ 0.29	+ 0.04	+ 0.36	
22	"	- 2.5	- 0.1	+ 0.48	+ 0.30	+ 0.04	+ 0.36	10, 35, 100, & 115 R. P. L.
23	"	- 3.5	- 0.1	+ 0.42	+ 0.29	+ 0.04	+ 0.33	34 R. P. L. and 3 Urs. Min.
28	"	- 2.8	- 0.1	+ 0.46	+ 0.31	+ 0.03	+ 0.33	
29	"	- 3.0	- 0.1	+ 0.31	+ 0.33	+ 0.04	+ 0.32	
30	R	- 4.3	- 0.1	+ 0.20	+ 0.39	+ 0.06	+ 0.32	14, 35, and 98 R. P. L.

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

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				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>	<i>s</i>	<i>"</i>	
$\alpha$ Andromedæ ...	0	2	61 34	3	- 0'02	+ 0'3	8	- 0'04	- 0'5	8	0'00	- 0'7
$\gamma$ Pegasi ( <i>Algenib</i> ) ...	0	7	75 29	7	- 0'03	- 2'2	1	- 0'08	- 1'2	4	+ 0'01	- 0'9
$\iota$ Ceti ...	0	13	99 29	9	+ 0'01	- 1'9	9	+ 0'02	- 0'1	7	+ 0'04	- 0'7
12 Ceti ...	0	24	94 37	8	0'00	+ 0'4	2	+ 0'03	+ 2'0	...	...	...
$\beta$ Ceti ...	0	38	108 38	9	- 0'06	- 0'5	3	- 0'09	+ 1'0	...	...	...
$\delta$ Piscium ...	0	43	83 4	9	+ 0'02	- 2'2	12	+ 0'01	- 1'5	7	+ 0'01	- 0'1
$\epsilon$ Piscium ...	0	57	82 45	10	- 0'05	- 1'4	3	- 0'08	- 0'5	...	...	...
$\beta$ Andromedæ ...	1	3	55 1	...	...	...	3	- 0'04	- 0'3	9	- 0'13	+ 1'7
$\alpha$ Urs. Min. ( <i>Polaris</i> )...	1	15	1 20	1	+ 1'86	+ 0'1	1	- 0'11	+ 0'7	3	+ 0'50	- 0'5
$\theta$ Ceti ...	1	18	98 48	5	- 0'02	- 1'1	3	+ 0'01	+ 0'7	4	+ 0'06	+ 1'5
$\eta$ Piscium ...	1	25	75 16	9	0'00	+ 0'1	2	- 0'06	- 1'1	3	- 0'05	+ 0'9
$\alpha$ Eridani ( <i>Achernar</i> ) ...	1	33	147 51	...	...	...	...	...	...	5	+ 0'02	+ 3'0
$\nu$ Piscium ...	1	35	85 7	10	+ 0'07	- 1'6	4	+ 0'07	- 2'1	...	...	...
$\sigma$ Piscium ...	1	39	81 27	4	+ 0'04	+ 0'6	5	+ 0'00	+ 0'2	19	+ 0'01	+ 0'5
$\beta$ Arietis ...	1	48	69 46	7	- 0'01	+ 0'1	4	+ 0'03	+ 0'1	...	...	...
$\alpha$ Arietis ...	2	0	67 6	4	- 0'06	- 0'4	...	...	...	2	+ 0'03	- 0'5
67 Ceti ...	2	11	96 58	13	+ 0'01	- 2'1	7	+ 0'05	- 1'5	13	+ 0'03	0'0
$\xi^2$ Ceti ...	2	22	82 4	2	+ 0'03	- 1'5	8	- 0'02	- 1'1	6	+ 0'07	+ 0'7
$\gamma^2$ Ceti ...	2	37	87 16	3	- 0'02	- 2'8	11	+ 0'01	- 1'5	9	+ 0'03	- 0'3
$\sigma$ Arietis ...	2	45	75 25	...	...	...	12	- 0'04	- 0'2	28	+ 0'03	+ 1'0
$\alpha$ Ceti ...	2	56	86 23	1	- 0'07	- 1'6	11	+ 0'02	- 0'8	4	+ 0'06	- 1'5
$\delta$ Arietis ...	3	5	70 43	5	- 0'02	- 1'4	7	0'00	- 1'7	1	- 0'06	- 2'4
$\alpha$ Persei ...	3	16	40 34	...	...	...	...	...	...	1	+ 0'01	- 0'7
$\sigma$ Tauri ...	3	18	81 23	1	+ 0'03	- 0'6	13	- 0'04	- 1'8	6	0'00	- 0'2
$\epsilon$ Eridani ...	3	27	99 52	5	- 0'03	- 1'8	13	0'00	- 0'1	11	- 0'03	- 0'1
$\eta$ Tauri ...	3	40	66 16	1	- 0'01	- 0'4	2	- 0'03	+ 0'6	3	- 0'04	+ 0'7
$\gamma^1$ Eridani ...	3	52	103 51	3	- 0'10	- 0'9	3	+ 0'02	- 1'3	7	+ 0'03	+ 2'1
$\Lambda$ Tauri ...	3	58	68 15	10	- 0'02	- 0'5	12	- 0'05	- 1'0	4	+ 0'01	- 1'1
$\sigma^1$ Eridani ...	4	6	97 9	7	+ 0'04	- 0'9	5	+ 0'06	- 1'2	2	+ 0'08	- 0'2
$\gamma$ Tauri ...	4	13	74 40	17	+ 0'04	+ 0'6	5	0'00	- 0'5	9	+ 0'02	+ 0'3
$\epsilon$ Tauri ...	4	22	71 5	7	+ 0'02	+ 0'1	3	+ 0'01	- 1'4	7	- 0'02	- 1'1
$\alpha$ Tauri ( <i>Aldabaran</i> ) ...	4	29	73 44	4	- 0'05	+ 1'0	...	...	...	...	...	...
$\mu$ Eridani ...	4	40	93 28	6	0'00	+ 0'3	6	+ 0'04	- 1'2	6	- 0'02	+ 0'7
$\iota$ Aurigæ ...	4	49	57 1	...	...	...	2	- 0'09	- 0'8	...	...	...
$\epsilon$ Leporis ...	5	0	112 32	...	...	...	4	+ 0'03	- 0'7	4	- 0'08	- 0'1

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

Stars.	Approximate Place 1881.		1880.			1881.			1882.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h. m.</i>	<i>o. s.</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>
$\beta$ Orionis ( <i>Rigel</i> ) ...	5 9	98 20	2	+ 0.07	- 1.3	1	+ 0.08	- 1.4	1	- 0.07	+ 1.3
$\beta$ Tauri ...	5 19	61 30	4	- 0.01	- 0.2	7	- 0.08	- 1.1	14	- 0.08	+ 0.1
$\delta$ Orionis ...	5 26	90 23	2	+ 0.02	+ 0.3	2	+ 0.02	- 1.5	1	+ 0.01	- 1.2
$\alpha$ Leporis ...	5 27	107 55	4	- 0.07	- 0.5	7	+ 0.05	0.0	3	- 0.06	+ 0.4
$\epsilon$ Orionis ...	5 30	91 17	4	+ 0.08	- 0.6	1	+ 0.09	+ 0.1	3	+ 0.01	0.0
$\alpha$ Columbæ ...	5 35	124 8	...	.....	.....	4	+ 0.04	+ 0.7	...	.....	.....
$\kappa$ Orionis ...	5 42	99 43	16	- 0.04	- 0.8	18	0.00	+ 0.5	7	- 0.04	0.0
$\alpha$ Orionis ( <i>Var.</i> ) ...	5 49	82 37	2	- 0.05	- 0.5	7	- 0.02	+ 0.7	5	- 0.01	+ 0.1
$\nu$ Orionis ...	6 1	75 13	4	- 0.07	- 2.4	10	0.00	- 2.8	...	.....	.....
$\eta$ Geminorum ...	6 8	67 28	11	+ 0.01	- 0.9	9	0.00	- 1.0	...	.....	.....
$\mu$ Geminorum ...	6 16	67 26	4	- 0.02	- 0.5	4	- 0.09	- 2.5	2	- 0.11	+ 1.3
$\alpha$ Argus ( <i>Canopus</i> ) ...	6 21	142 38	...	.....	.....	9	+ 0.05	+ 1.8	...	.....	.....
$\gamma$ Geminorum ...	6 31	73 30	4	+ 0.07	+ 2.1	7	- 0.01	+ 0.5	...	.....	.....
$\xi$ Geminorum ...	6 39	76 59	11	0.00	- 1.8	6	- 0.01	- 2.1	8	- 0.01	- 0.5
$\alpha$ Canis Maj. ( <i>Sirius</i> )..	6 40	106 33	...	.....	.....	6	- 0.03	+ 2.1	...	.....	.....
Cephei 51 ( <i>Hev.</i> ) ...	6 44	2 46	1	- 0.43	- 1.2	2	0.00	+ 3.2	10	- 0.82	- 0.7
$\theta$ Canis Majoris ...	6 49	101 53	14	- 0.03	- 1.7	26	+ 0.02	- 1.2	5	+ 0.01	- 1.1
$\epsilon$ Canis Majoris ...	6 54	118 49	...	.....	.....	6	+ 0.03	- 0.6	...	.....	.....
$\gamma$ Canis Majoris ...	6 58	105 28	3	- 0.06	+ 0.8	10	+ 0.03	+ 0.4	...	.....	.....
$\delta$ Geminorum ...	7 13	67 48	1	- 0.09	- 2.3	2	- 0.01	- 2.3	...	.....	.....
$\beta$ Canis Minoris	7 21	81 23	13	+ 0.04	- 1.9	12	+ 0.03	- 1.3	...	.....	.....
$\alpha^2$ Geminor. ( <i>Castor</i> )..	7 27	57 51	...	.....	.....	9	- 0.02	0.0	...	.....	.....
$\alpha$ Can. Min. ( <i>Procyon</i> )..	7 33	84 28	4	- 0.08	- 4.9	2	- 0.01	- 2.6	4	- 0.01	- 1.8
$\beta$ Geminor. ( <i>Pollux</i> )..	7 38	61 41	...	.....	.....	5	+ 0.01	+ 1.2	...	.....	.....
$\xi$ Argus ...	7 44	114 34	4	- 0.08	- 0.3	4	- 0.09	+ 0.4	7	- 0.03	+ 0.7
$\delta$ Cancri ...	7 56	61 52	4	+ 0.01	- 0.1	7	- 0.06	- 1.0	5	+ 0.03	- 2.3
15 Argus ...	8 2	113 53	3	+ 0.04	- 0.4	9	- 0.01	+ 1.0	...	.....	.....
$\beta$ Cancri ...	8 10	80 27	14	- 0.01	- 0.4	11	+ 0.03	+ 1.0	10	0.0	+ 0.5
$\eta$ Cancri ...	8 26	69 9	3	+ 0.05	- 0.7	5	- 0.05	- 0.7	...	.....	.....
$\gamma$ Cancri ...	8 36	68 6	8	- 0.01	+ 1.5	7	- 0.01	+ 0.7	...	.....	.....
$\epsilon$ Hydræ ...	8 40	83 9	...	.....	.....	2	- 0.02	- 0.2	...	.....	.....
$\iota$ Ursæ Majoris ...	8 51	41 30	...	.....	.....	...	.....	.....	8	- 0.08	- 0.7
$\alpha$ Cancri ...	8 52	77 41	5	- 0.02	- 0.5	6	- 0.02	+ 0.8	...	.....	.....
$\kappa$ Cancri ...	9 1	78 51	6	- 0.01	+ 0.3	11	- 0.02	+ 0.4	19	+ 0.02	- 0.2
83 Cancri ...	9 12	71 47	2	+ 0.01	- 1.5	6	0.00	- 0.4	...	.....	.....

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

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				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>	
ε Argus ... ..	9	14	148 47	...	.....	.....	7	+ 0.05	+ 2.3	...	.....	.....
θ Ursæ Majoris ... ..	9	25	37 47	1	+ 0.05	- 0.6	9	+ 0.06	- 1.2	...	.....	...
ο Leonis ... ..	9	35	79 34	1	+ 0.08	- 2.6	5	+ 0.03	- 0.1	28	+ 0.03	- 0.7
ε Leonis ... ..	9	39	65 41	1	- 0.19	- 0.1	9	- 0.05	- 1.7	...	.....	.....
μ Leonis ... ..	9	46	63 26	...	.....	.....	14	- 0.01	- 0.9	22	+ 0.04	0.0
π Leonis ... ..	9	54	81 23	1	+ 0.01	- 3.0	...	.....	.....	...	.....	.....
α Leonis ( <i>Regulus</i> ) ... ..	10	2	77 27	1	+ 0.07	- 0.4	...	.....	.....	...	.....	.....
γ <sup>1</sup> Leonis ... ..	10	13	69 33	2	+ 0.06	- 2.3	12	- 0.02	- 2.1	...	.....	.....
μ Hydre ... ..	10	20	106 14	...	.....	.....	15	+ 0.01	- 1.3	10	- 0.03	- 1.3
ρ Leonis ... ..	10	27	80 5	2	+ 0.02	- 3.2	5	+ 0.01	- 3.0	...	.....	.....
η Argus, ( <i>Var. L.</i> ) ... ..	10	40	149 4	...	.....	.....	4	+ 0.05	- 1.6	...	.....	.....
ι Leonis ... ..	10	43	78 50	2	0.00	- 1.6	3	+ 0.01	- 1.3	...	.....	.....
δ Leonis ... ..	10	54	85 45	2	+ 0.04	- 2.2	13	+ 0.03	+ 0.2	20	+ 0.03	- 1.1
α Ursæ Majoris ... ..	10	56	27 36	...	.....	.....	9	- 0.12	- 1.7	...	.....	.....
χ Leonis ... ..	10	59	82 1	...	.....	.....	4	- 0.07	- 2.4	...	.....	.....
δ Leonis ... ..	11	8	68 40	2	- 0.09	- 1.5	1	- 0.05	- 1.3	...	.....	.....
δ Crateris ... ..	11	13	104 8	2	- 0.03	- 2.1	4	- 0.03	- 1.4	...	.....	.....
τ Leonis ... ..	11	22	86 29	5	+ 0.04	- 0.7	10	+ 0.03	- 0.2	10	+ 0.14	+ 1.2
λ Draconis ... ..	11	24	20 1	...	.....	.....	5	- 0.30	- 2.7	...	.....	.....
ν Leonis ... ..	11	31	90 10	3	+ 0.06	- 1.0	8	0.00	- 0.9	...	.....	.....
β Leonis ... ..	11	43	74 46	3	0.00	- 1.5	4	+ 0.01	- 2.5	...	.....	.....
π Virginis ... ..	11	55	82 43	6	- 0.02	- 4.1	14	+ 0.04	- 2.5	10	- 0.01	- 2.3
ε Corvi ... ..	12	4	111 57	4	+ 0.03	- 0.9	2	+ 0.04	- 0.8	10	- 0.05	+ 0.3
η Virginis ... ..	12	14	90 0	4	+ 0.04	- 0.9	8	+ 0.03	- 0.7	10	+ 0.05	- 0.6
δ <sup>2</sup> Corvi ... ..	12	24	105 51	7	- 0.03	- 0.6	18	+ 0.01	+ 0.4	29	- 0.08	+ 0.2
β Corvi ... ..	12	28	112 44	5	+ 0.08	- 1.3	5	+ 0.02	- 0.3	...	.....	.....
α Crucis ... ..	...	...	.....	...	.....	.....	...	.....	.....	...	.....	.....
δ Virginis ... ..	12	50	85 57	4	0.00	- 2.2	21	+ 0.04	- 1.2	...	.....	.....
α Canum Venaticorum ... ..	12	50	51 2	...	.....	.....	...	.....	.....	3	- 0.03	- 3.1
ε Virginis ... ..	12	56	78 24	3	+ 0.01	- 1.6	12	- 0.03	- 1.0	10	+ 0.03	+ 0.5
θ Virginis ... ..	13	4	94 54	2	+ 0.08	- 1.3	6	+ 0.10	0.0	...	.....	.....
α Virginis ( <i>Spica</i> ) ... ..	13	19	100 32	2	0.00	- 0.7	8	+ 0.02	+ 1.0	...	.....	.....
ζ Virginis ... ..	13	29	89 59	3	+ 0.02	- 0.1	2	+ 0.01	+ 1.0	...	.....	.....
τ Bootis ... ..	13	42	71 57	6	- 0.03	- 0.3	13	+ 0.01	+ 0.9	16	+ 0.04	+ 0.5
η Ursæ Majoris ... ..	13	43	40 6	...	.....	.....	...	.....	.....	4	- 0.02	- 0.2

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

Star.	Approximate Place 1881.		1880.			1881.			1882.		
			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>"</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>s</i>	<i>"</i>	
$\eta$ Bootis ... ..	13 49	71 0	...	.....	...	1	+0.12	+ 2.4	...	.....	.....
$\beta$ Centauri ... ..	13 55	149 48	...	.....	.....	6	-0.10	+ 3.0	...	.....	.....
$\tau$ Virginis ... ..	13 56	87 53	3	+0.01	- 0.9	1	+0.08	+ 1.3	10	+0.04	- 2.1
$\alpha$ Draconis ... ..	14 1	25 3	5	-0.24	- 1.5	...	.....	.....	...	.....	.....
$\alpha$ Bootis ( <i>Arcturus</i> )... ..	14 10	40 12	...	.....	.....	3	-0.06	+ 1.6	...	.....	.....
$f$ Bootis ... ..	14 21	70 14	7	-0.03	- 0.6	19	-0.07	0.0	14	-0.11	+0.1
$\rho$ Bootis ... ..	14 27	59 6	...	.....	.....	7	-0.04	+ 0.1	2	-0.07	+0.6
$\alpha$ Centauri ... ..	.....	.....	...	.....	.....	...	.....	.....	...	.....	.....
$\epsilon^s$ Bootis ... ..	14 40	62 25	5	0.00	- 1.4	5	-0.05	- 0.6	10	-0.05	+0.4
$\alpha$ Libræ ... ..	14 44	105 33	3	+0.01	- 0.4	6	-0.04	- 0.2	...	.....	.....
$\beta$ Ursæ Minoris ... ..	14 51	15 22	...	.....	.....	...	.....	.....	4	-0.06	-0.9
$\psi$ Bootis ... ..	14 59	62 35	7	-0.02	- 0.1	1	-0.01	- 0.9	...	.....	.....
$\beta$ Libræ ... ..	15 11	98 57	10	+0.04	- 0.4	7	+0.05	- 0.7	10	+0.03	0.0
$\alpha$ Coronæ ... ..	15 30	62 53	4	-0.07	- 1.8	...	.....	.....	...	.....	.....
$\alpha$ Serpentis ... ..	15 38	83 12	5	-0.04	- 1.6	2	-0.05	- 0.7	10	-0.04	-1.1
$\epsilon$ Serpentis ... ..	15 45	85 10	13	+0.02	- 2.0	12	0.00	- 0.4	20	+0.02	+0.3
$\beta^1$ Scorpii ... ..	15 59	109 29	2	-0.08	- 2.9	4	+0.01	- 1.7	...	.....	.....
$\delta$ Ophiuchi ... ..	16 8	93 23	4	+0.05	- 1.1	9	+0.03	- 1.4	...	.....	.....
$\gamma$ Herculis ... ..	16 17	70 34	1	-0.01	- 0.1	5	-0.03	- 0.9	20	-0.04	+0.3
$\alpha$ Scorpii ( <i>Antares</i> ) ... ..	16 22	116 10	3	+0.04	+ 0.1	3	+0.01	- 0.5	7	+0.05	-1.0
$\zeta$ Ophiuchi ... ..	16 31	100 19	12	+0.02	- 1.4	10	+0.01	0.0	12	+0.01	-0.7
$\zeta$ Herculis ... ..	16 37	58 11	5	-0.05	- 0.4	4	-0.03	- 0.1	...	.....	.....
$\kappa$ Ophiuchi ... ..	16 52	80 26	5	-0.01	- 0.7	7	-0.01	- 0.5	...	.....	.....
$\epsilon$ Ursæ Minoris ... ..	16 53	7 46	6	-0.09	- 0.4	6	+0.05	- 2.1	6	+0.37	-1.0
$\eta$ Ophiuchi ... ..	17 4	105 35	5	0.00	- 0.3	14	+0.02	- 0.7	...	.....	.....
$\alpha^1$ Herculis ( <i>Var.</i> ) ... ..	17 9	75 28	3	+0.03	+ 0.1	...	.....	.....	...	.....	.....
$\theta$ Ophiuchi ... ..	17 15	114 53	2	+0.02	+ 0.1	6	-0.02	+ 1.7	...	.....	.....
$\sigma$ Ophiuchi ... ..	17 21	85 45	12	0.00	- 0.3	1	-0.02	- 1.2	17	+0.04	+0.4
$\alpha$ Ophiuchi ... ..	17 29	77 21	3	-0.02	- 0.5	1	-0.02	+ 0.3	5	-0.01	+0.5
$\beta$ Ophiuchi ... ..	17 38	85 23	10	+0.03	- 1.9	5	+0.09	- 1.2	10	+0.01	+0.4
$\mu$ Herculis ... ..	17 42	62 13	8	-0.01	- 1.7	3	-0.07	- 0.7	...	.....	.....
$\zeta^2$ Ophiuchi ... ..	18 2	80 27	6	-0.05	- 1.2	18	-0.01	- 0.6	21	-0.04	-0.5
$\mu$ Sagittarii ... ..	18 7	111 5	3	+0.04	- 0.6	2	-0.01	- 1.1	...	.....	.....
$\delta$ Ursæ Minoris ... ..	18 11	3 23	3	+0.27	- 0.9	1	-0.08	+ 0.7	5	-0.49	+1.6
$\eta$ Serpentis .. ..	18 15	92 56	5	+0.02	+ 0.4	12	+0.05	+ 2.9	8	+0.01	+1.6

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

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h. m.</i>	<i>° '</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>	
λ Sagittarii ...	18 21	115 29	6	- 0.04	- 4.8	14	- 0.03	- 2.7	14	+ 0.06	- 4.7	
α Lyrae ( <i>Vega</i> ) ...	18 33	51 20	5	- 0.04	- 1.0	3	- 0.03	- 1.0	5	- 0.13	- 2.0	
β <sup>1</sup> Lyrae ( <i>Var.</i> ) ...	18 46	56 46	1	- 0.15	+ 0.2	6	- 0.09	- 0.6	...	.....	.....	
ε Aquilæ ...	18 54	75 6	1	- 0.06	- 2.0	14	+ 0.01	0.0	10	+ 0.02	- 0.4	
ζ Aquilæ ...	19 0	76 19	8	- 0.03	- 1.7	1	+ 0.16	- 1.1	...	.....	.....	
ω Aquilæ ...	19 12	78 37	10	- 0.04	- 1.0	3	- 0.03	0.0	...	.....	.....	
δ Aquilæ ...	19 19	87 7	18	+ 0.02	- 0.6	5	+ 0.07	+ 1.2	...	.....	.....	
η <sup>2</sup> Sagittarii ...	19 29	115 9	7	+ 0.01	- 0.3	8	+ 0.04	- 1.5	5	- 0.05	+ 1.0	
γ Aquilæ ...	19 41	79 41	13	- 0.01	- 1.6	3	- 0.07	- 0.5	...	.....	.....	
λ Ursæ Minoris ...	19 43	1 3	1	+ 0.01	- 1.7	...	.....	.....	...	.....	.....	
α Aquilæ ( <i>Altair</i> ) ...	19 45	81 27	...	.....	.....	...	.....	.....	10	- 0.01	- 1.1	
β Aquilæ ...	19 49	83 53	7	- 0.02	- 3.0	2	+ 0.01	- 4.5	3	+ 0.07	+ 0.3	
θ Aquilæ ...	20 5	91 10	16	+ 0.04	- 0.8	17	+ 0.07	+ 1.1	12	+ 0.02	- 0.4	
α <sup>2</sup> Capricorni ...	20 11	102 55	8	+ 0.01	- 1.4	1	- 0.09	- 0.2	...	.....	.....	
ρ Capricorni ...	20 22	108 12	1	+ 0.02	- 0.6	5	+ 0.08	+ 0.9	...	.....	.....	
ε Delphini ...	20 28	79 6	2	- 0.07	- 1.5	5	- 0.02	- 0.5	13	0.00	+ 0.4	
ε Aquarii ...	20 41	90 56	8	+ 0.01	- 1.0	14	+ 0.01	+ 0.8	9	+ 0.02	- 0.1	
β <sup>2</sup> Vulpeculæ ...	20 49	62 24	4	+ 0.06	- 2.6	2	- 0.04	- 2.6	...	.....	.....	
θ Capricorni ...	20 59	107 42	5	- 0.04	- 0.1	7	- 0.07	+ 2.0	10	+ 0.01	+ 2.1	
β <sup>1</sup> Cygni ...	21 2	51 50	...	.....	.....	2	+ 0.02	+ 5.2	...	.....	.....	
ζ Cygni ...	21 8	60 16	2	+ 0.02	- 2.6	6	- 0.02	- 0.1	4	- 0.04	- 1.0	
α Cephei ...	21 16	27 55	...	.....	.....	...	.....	.....	1	- 0.53	- 2.2	
β Aquarii ...	21 25	96 6	11	+ 0.04	- 0.7	5	+ 0.01	0.0	...	.....	.....	
ε Pegasi ...	21 38	80 40	6	- 0.04	- 1.7	4	- 0.03	- 0.1	...	.....	.....	
16 Pegasi ...	21 48	64 38	9	- 0.05	- 3.2	5	- 0.07	- 0.2	...	.....	.....	
α Aquarii ...	22 0	90 54	4	- 0.02	- 2.4	2	+ 0.02	- 1.5	...	.....	.....	
α Gruis ...	22 1	137 32	...	.....	.....	...	.....	.....	9	- 0.07	+ 2.2	
θ Aquarii ...	22 11	93 23	9	+ 0.05	- 1.4	4	0.00	+ 0.8	...	.....	.....	
γ Aquarii ...	22 16	91 59	12	+ 0.03	- 0.2	14	+ 0.03	+ 0.3	19	0.00	+ 0.7	
η Aquarii ...	22 29	90 44	7	+ 0.02	- 1.8	8	+ 0.07	- 0.2	...	.....	.....	
ζ Pegasi ...	22 36	79 47	9	- 0.01	- 1.9	5	- 0.03	- 0.6	...	.....	.....	
λ Aquarii ...	22 46	98 13	7	+ 0.03	- 0.9	16	+ 0.04	+ 1.1	12	+ 0.02	+ 1.5	
α Pis. Aus. ( <i>Fomalhaut</i> ) ...	22 51	120 15	...	.....	.....	...	.....	.....	18	0.00	- 0.8	
α Pegasi ( <i>Markab</i> ) ...	22 59	75 26	3	- 0.09	+ 0.5	1	- 0.04	+ 0.3	...	.....	.....	
γ Piscium ...	23 11	87 22	7	+ 0.02	- 2.3	5	+ 0.01	+ 0.5	...	.....	.....	

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

Stars.	Approximate Place 1861.		1880.			1881.			1882.				
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.		
	<i>h.</i>	<i>m.</i>	<i>°</i>	<i>'</i>		<i>°</i>	<i>'</i>		<i>°</i>	<i>'</i>		<i>°</i>	<i>'</i>
$\kappa$ Piscium ... ..	23	21	89	24	6	+0.02	- 2.2	9	- 0.03	- 0.3	...	.....	.....
$\iota$ Piscium ... ..	23	34	85	1	1	+0.01	- 2.4	10	+0.01	0.0	...	.....	.....
$\gamma$ Cephei ... ..	23	34	13	2	..	.....	.....	...	.....	.....	8	-0.14	+ 0.4
$\delta$ Sculptoris ... ..	23	48	118	47	1	-0.05	+ 1.6	4	-0.10	+ 1.9	18	-0.03	+ 1.7
$\omega$ Piscium ... ..	23	53	83	48	7	-0.01	- 1.6	5	-0.04	- 0.5	...	.....	.....





Page.	No.	Subject.	For	Read
87	28	Seconds of P. D. (Oct. 22) ... ..	4.5	5.5
88	28	" " " " " " " " " " " "	13.9	14.9
"	32	" " " " " " " " " " " "	55.4	56.4
"	36	" " " " " " " " " " " "	56.7	57.7
90	56	Seconds of R. A. ... ..	43.43	42.43
98	98	Degrees of P. D. ... ..	186	182
94	111	Seconds of R. A. ... ..	22.28	23.28
151	25	Secular Variation in P. D. ... ..	8.099	0.099
157	109	Annual Precession in P. D. ... ..	14.095	14.111
"	120	" in R. A. ... ..	1.3336	1.3415
"	"	" in P. D. ... ..	12.827	12.870
196 } 254 }	25	Seconds of P. D. ... ..	15.8	32.3
240	513	Date ... ..	June	July

*In R. A. for 1880.*

Page	Number	Date	For	Read	Page	Number	Date	For	Read
11	121	Dec. 4	2.86	2.98	17	205	Jan. 7	41.36	40.47
"	122	" 14	29.89	29.91	"	209	" 9	59.49	59.45
"	124	Jan. 12	10.11	10.15	"	218	" 3	7.99	8.04
"	"	Dec. 3	.03	9.91	18	219	" 6	47.00	46.92
"	130	" 3	25.80	25.74	"	220	" 7	10.50	10.62
"	"	" 28	.75	.70	"	222	" 8	38.95	38.87
"	"	" 29	.66	.60	"	"	" 10	.87	.80
12	135	Jan. 3	38.69	38.65	"	223	" 12	19.54	19.61
"	136	Dec. 25	7.38	7.34	"	224	" 9	1.50	1.45
"	"	" 27	.68	.59	"	225	" 13	22.32	22.35
"	"	" 28	.47	.34	"	230	Mar. 4	8.29	9.33
"	"	" 29	.41	.25	"	231	Jan. 6	23.67	23.59
"	"	" 30	.44	.30	"	"	" 7	.76	.65
"	137	" 14	9.70	9.75	"	"	" 10	.78	.70
13	155	Jan. 3	41.76	41.80	"	234	" 9	1.08	1.15
"	156	" 7	0.49	0.45	"	236	Mar. 4	37.13	37.27
"	"	" 8	.53	.49	19	241	Jan. 3	1.97	1.92
"	157	Dec. 31	30.24	30.21	"	244	" 7	15.88	15.95
14	165	Jan. 9	21.95	22.02	"	245	" 6	8.37	8.43
"	167	Mar. 4	40.07	40.14	"	"	" 9	.39	.44
"	171	Dec. 27	55.29	55.25	"	247	" 10	19.99	20.08
"	"	" 28	.14	.08	"	"	" 12	20.08	.14
"	"	" 29	.18	.11	"	248	" 13	4.46	4.49
"	"	" 30	.23	.17	20	256	Jan. 12	51.12	51.16
"	"	" 31	.89	.83	"	257	" 10	52.77	52.69
"	172	Jan. 10	6.66	6.62	"	"	" 13	.73	.69
15	176	Dec. 27	21.23	21.21	"	261	" 10	16.69	16.76
"	179	" 28	13.23	13.17	"	"	" 12	.50	.55
"	"	" 29	.09	.02	"	262	" 13	46.67	46.71
"	180	Jan. 6	16.81	16.86	21	265	Sep. 23	44.52	44.13
"	"	" 8	.84	.89	"	266	Jan. 10	24.69	24.64
"	181	Mar. 4	16.86	16.92	"	267	" 12	41.31	41.29
"	182	Dec. 30	6.01	6.09	"	269	" 13	4.10	4.07
"	"	" 31	.06	.13	"	276	" 10	25.42	25.47
"	183	Jan. 9	40.32	40.40	"	"	" 12	.20	.24
"	184	" 12	9.27	9.33	22	281	" 13	14.38	14.42
"	185	" 3	51.64	51.69	"	283	Mar. 4	14.85	14.81
"	"	" 10	.49	.57	"	"	Apl. 3	.80	.85
"	186	Mar. 4	48.51	48.80	"	"	" 10	.59	.62
16	195	Jan. 9	41.88	41.85	"	286	" 7	47.59.69	48.0.72

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SEPARATE RESULTS  
OF  
OBSERVATIONS  
OF THE FIXED STARS  
MADE WITH THE  
MADRAS MERIDIAN CIRCLE  
IN THE YEAR  
1880

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Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
Dec. 9	...	0	37	33.75	...	108	38	43.1	R	Dec. 10	8.0	0	51	43.30	...	8	46	19.1	M
11	...	37	33.76	...	...	38	43.7	M	11	8.0	51	43.46	...	...	46	19.3	M		
13	...	37	33.89	...	...	38	43.6	M	13	8.0	51	43.21	...	...	46	19.9	M		
14	...	37	33.76	...	...	38	44.0	M	14	8.0	51	43.73	...	...	46	19.9	M		
15	...	37	33.70	...	...	38	45.3	M	15	8.0	51	43.55	...	...	46	20.1	M		
16	...	37	33.74	...	...	38	44.9	M											
<b>13</b> $\eta$ Phœnicis.										<b>18</b> <i>2 Ursæ Minoris.</i>									
Oct. 13	...	0	37	57.57	...	148	7	18.4	M	Oct. 14	...	0	52	37.33	3	4	23	13.7	M
Nov. 13	...	37	57.48	...	...	7	18.1	R	25	...	52	36.37	3	...	23	14.0	M		
17	...	37	57.45	...	...	7	19.5	R	29	...	52	35.87	3	...	23	14.1	M		
										Nov. 24	...	52	35.76	3	...	23	16.3	R	
<b>14</b> <i>17 Ceti</i> $\phi^1$										<b>19</b> <i>R. P. L.</i> 14.									
Oct. 15	...	0	38	8.09	...	101	15	47.4	M	Dec. 7	...	0	56	12.47	3	3	29	41.5	R
20	...	38	8.05	...	...	15	47.7	M											
25	...	38	7.99	...	...	15	48.1	M											
30	...	38	8.00	...	...	15	48.6	M											
<b>15</b> $\lambda^2$ Sculptoris.										<b>20</b> <i>71 Piscium</i> $\epsilon$									
Oct. 16	...	0	38	23.66	...	129	4	58.1	M	Oct. 20	...	0	56	43.04	...	82	45	21.3	M
21	6.0	38	23.85	...	...	4	57.7	M	21	...	56	42.91	...	...	45	21.8	M		
26	...	38	23.85	...	...	4	57.9	M	26	...	56	42.98	...	...	45	22.7	M		
29	5.5	38	23.81	...	...	4	56.9	M	27	...	56	42.87	...	...	45	22.0	M		
									28	...	56	42.89	...	...	45	21.1	M		
									30	...	56	43.00	...	...	45	23.9	M		
									Nov. 16	...	56	42.95	...	...	45	22.3	R		
									18	...	56	42.93	...	...	45	21.7	R		
									Dec. 8	...	56	43.06	...	...	45	21.2	R		
									16	...	56	42.95	...	...	45	23.0	M		
<b>16</b> <i>63 Piscium</i> $\delta$										<b>21</b> <i>1 Ursæ Minoris a, Polaris.</i>									
Nov. 11	...	0	42	27.25	...	83	4	2.9	R	Nov. 13	...	1	14	46.74	2	1	19	51.2	R
13	...	42	27.36	...	...	4	5.1	R											
22	...	42	27.41	...	...	4	3.4	R											
24	...	42	27.38	...	...	4	3.8	R											
Dec. 3	...	42	27.37	...	...	4	5.4	R											
9	...	42	27.37	...	...	4	2.6	R											
14	...	42	27.37	...	...	4	4.6	M											
15	...	42	27.36	...	...	4	4.5	M											
16	...	42	27.28	...	...	4	4.3	M											
<b>17</b> $\Upsilon$ Cephei, Var.										<b>22</b> <i>45 Ceti</i> $\theta$									
Nov. 19	8.0	0	51	43.34	...	8	46	16.8	R	Oct. 13	...	1	18	1.41	...	98	48	8.7	M
22	8.2	51	43.31	...	...	46	18.7	R	14	...	18	1.49	...	...	48	9.5	M		
25	7.0	51	43.66	...	...	46	17.5	R	Dec. 8	...	18	1.40	...	...	48	9.5	R		
Dec. 4	7.0	51	43.53	...	...	46	17.9	R	17	...	18	1.39	...	...	48	9.5	M		
9	8.0	51	43.79	...	...	46	16.8	R	18	...	18	1.45	...	...	48	11.5	M		
<b>23</b> <i>U Ceti, Var 5.</i>										<b>23</b> <i>U Ceti, Var 5.</i>									
Nov. 5	7.0	1	19	47.30	...	94	33	4.6	R	Nov. 5	7.0	1	19	47.30	...	94	33	4.6	R
11	8.0	19	47.30	...	...	33	4.6	R	11	8.0	19	47.30	...	...	33	4.6	R		
16	7.5	19	47.27	...	...	33	7.7	R	16	7.5	19	47.27	...	...	33	7.7	R		



*Separate Results of Madras Meridian Circle Observations in 1880.*

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
Dec. 27	...	1	48	0.56	...	69	46	44.6	R	<b>41</b>	<i>S Arietis, Var. 2.</i>									
28	...		48	0.75	...		46	43.4	R		Dec. 9	10.5	1	58	10.88	3	78	2	56.9	R
30	...		48	0.50	...		46	46.6	M		27	10.2		58	11.14	4		2	55.2	R
31	...		48	0.56	...		46	47.4	M		29	10.0		58	10.97	5		2	55.6	R
										30	10.0		58	10.84	2		2	55.1	M	
<b>35</b>		<i>η<sup>1</sup> Hydri, Var.</i>									<b>42</b>	<i>13 Arietis a</i>								
Jan. 6	...	1	49	32.85	...	158	32	7.8	M	Oct. 29	...	2	0	24.54	...	67	6	20.5	M	
Oct. 28	...		49	32.75	...		32	9.6	M	Nov. 24	...		0	24.47	...		6	21.8	R	
Dec. 10	7.5		49	32.72	...		32	10.7	M	Dec. 4	...		0	24.51	...		6	20.7	R	
11	7.5		49	32.80	...		32	10.1	M	28	...		0	24.59	...		6	19.6	R	
13	...		49	32.82	5		32	11.6	M											
14	7.5		49	32.81	...		32	11.0	M											
15	7.5		49	32.63	...		32	9.5	M											
<b>36</b>		<i>η<sup>2</sup> Hydri.</i>									<b>43</b>	<i>67 Ceti.</i>								
Nov. 24	...	1	51	53.78	...	158	14	20.5	R	Jan. 3	...	2	10	59.82	...	96	58	30.2	M	
Dec. 3	...		51	53.62	...		14	18.1	R	Nov. 18	...		10	59.91	...		58	31.9	R	
7	...		51	53.56	...		14	18.4	R	19	...		10	59.86	...		58	29.8	R	
										25	...		10	59.62	...		58	32.3	R	
<b>37</b>		<i>48 Cassiopeiæ.</i>									Dec. 11	...		10	59.91	...		58	30.8	M
Jan. 7	5.0	1	52	7.01	...	19	40	32.7	M	13	...		10	59.79	...		58	33.5	M	
Oct. 29	...		52	7.05	...		40	31.8	M	14	...		10	59.88	...		58	33.3	M	
Nov. 5	5.0		52	7.00	...		40	31.3	R	15	...		10	59.94	...		58	31.9	M	
13	5.0		52	7.22	...		40	33.8	R	22	...		10	59.86	...		58	32.2	R	
										25	...		10	59.88	...		58	30.2	R	
										27	...		10	59.85	...		58	31.3	R	
										29	...		10	59.92	...		58	33.4	R	
										31	...		10	59.68	...		58	33.2	M	
<b>38</b>		<i>50 Cassiopeiæ.</i>									<b>44</b>	<i>73 Ceti ξ<sup>2</sup></i>								
Oct. 30	...	1	53	12.47	...	18	9	37.6	M	Nov. 24	...	2	21	46.80	...	82	4	42.5	R	
Nov. 11	...		53	12.78	...		9	37.1	R	Dec. 22	...		21	46.72	...		4	42.1	R	
16	...		53	12.82	...		9	36.7	R											
18	...		53	12.99	...		9	37.5	R											
<b>39</b>		<i>Lacaille 616.</i>									<b>45</b>	<i>R. P. L. 26.</i>								
Jan. 3	...	1	56	32.51	...	156	38	52.7	M	Nov. 19	...	2	26	40.56	3	3	28	40.2	R	
										Dec. 10	...		26	42.95	3		28	39.8	M	
										11	...		26	43.20	3		28	38.2	M	
										13	...		26	43.34	3		28	38.1	M	
										14	...		26	42.58	3		28	38.1	M	
										15	...		26	42.93	3		28	38.7	M	
<b>40</b>		<i>χ Phœnicis.</i>																		
Jan. 8	...	1	56	53.60	...	135	17	30.8	M											
Nov. 5	5.0		56	53.60	...		17	29.4	R											
13	5.0		56	53.72	...		17	31.2	R											





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Number and Date.	Magnitude.	Mean Right Ascension. 1880.			No. of Wires.	Mean Polar Distance. 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>60</b> <i>18 Persei</i> $\tau$										<b>67</b> <i>50 Arietis.</i>									
Dec. 10	...	2	45	45.19	...	37	43	46.9	R	Jan. 6	7.0	2	53	46.90	...	72	28	19.3	M
13	...		45	45.15	...		43	46.2	M	8	...		53	46.77	...		28	20.3	M
17	...		45	45.37	...		43	46.4	M	<b>68</b> <i>92 Ceti <math>\alpha</math>, Menkar.</i>									
18	...		45	45.25	...		43	47.6	M	Dec. 29	...	2	56	0.32	...	86	22	54.2	R
28	...		45	45.41	...		43	45.6	R	<b>69</b> <i>23 Persei</i> $\gamma$									
<b>61</b> <i><math>\eta^3</math> Fornacis.</i>										Jan. 24	...	2	56	6.93	...	36	57	52.5	M
Jan. 8	5.6	2	45	49.38	...	126	10	12.7	M	Dec. 10	...		56	6.66	...		57	52.3	M
16	6.0		45	49.58	...		10	15.3	M	<b>70</b> <i>Radcliffe 860.</i>									
<b>62</b> <i>44 Arietis</i> $\rho^1$										Dec. 8	5.0	2	56	31.75	...	33	45	59.8	R
Jan. 7	7.0	2	48	11.89	...	72	45	16.1	M	16	5.0		56	31.72	...		46	0.5	M
9	7.0		48	11.71	...		45	15.0	M	17	5.0		56	31.77	...		45	59.9	M
<b>63</b> <i>46 Arietis</i> $\rho^3$										18	...		56	31.66	...		46	2.5	M
Jan. 10	...	2	49	39.94	...	72	27	21.9	M	<b>71</b> <i>462 Brisbane.</i>									
12	...		49	39.78	...		27	23.8	M	Nov. 18	5.0	2	56	32.01	...	154	32	51.4	R
15	...		49	39.73	...		27	22.0	M	Dec. 9	5.0		56	31.83	...		32	55.5	R
17	...		49	39.95	...		27	23.3	M	11	5.0		56	32.03	...		32	56.7	M
20	...		49	39.77	...		27	21.8	M	13	...		56	32.10	...	6	32	57.8	M
23	...		49	39.79	...		27	22.9	M	14	5.0		56	32.06	...		32	56.1	M
<b>64</b> <i>22 Persei</i> $\pi$										<b>72</b> <i>9 Eridani</i> $\rho^2$									
Jan. 27	...	2	51	5.49	...	50	49	6.5	M	Jan. 20	...	2	56	48.85	...	98	9	30.2	M
Nov. 19	...		51	5.51	...		49	7.3	R	Nov. 24	...		56	48.83	...		9	29.1	R
24	...		51	5.43	...		49	7.7	R	25	...		56	48.76	...		9	29.0	R
<b>65</b> <i>Lalande 5456.</i>										Dec. 7	...		56	48.76	...		9	27.4	R
Jan. 13	8.9	2	51	10.96	...	72	40	11.9	M	<b>73</b> <i>Lalande 5701.</i>									
19	8.0		51	10.93	...		40	11.4	M	Jan. 3	9.0	2	59	1.42	...	72	17	15.7	M
22	9.0		51	10.84	...		40	13.0	M	7	9.0		59	1.49	...		17	17.3	M
26	9.0		51	11.06	...		40	10.9	M	<b>74</b> <i><math>\epsilon</math> Persei.</i>									
Nov. 16	8.0		51	10.89	...		40	13.6	R	Jan. 15	...	3	0	24.73	...	40	50	47.5	M
18	8.0		51	10.91	...		40	12.8	R	17	...		0	24.85	...		50	47.7	M
<b>66</b> <i>6 Eridani.</i>										19	...		0	24.72	...		50	46.8	M
Nov. 25	5.6	2	52	45.54	...	114	5	19.5	R	27	...		0	24.55	...		50	46.9	M
Dec. 4	5.6		52	45.38	...		5	20.6	R	Nov. 19	...		0	24.68	...		50	48.2	R



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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>91</b> <i>Radcliffe 962.</i>										<b>98</b> <i>ζ Eridani.</i>									
Jan. 20	...	3	20	20.68	...	31	32	17.9	M	Jan. 27	...	3	25	56.90	...	131	46	32.5	M
Feb. 2	...		20	20.53	...		32	18.7	M	Feb. 7	...		25	57.04	6		46	34.4	M
<b>92</b> <i>Radcliffe 969.</i>										<b>99</b> <i>18 Eridani ε</i>									
Jan. 12	5.0	3	20	51.44	...	34	57	50.4	M	Jan. 6	...	3	27	16.53	...	99	51	56.2	M
Nov. 19	5.0		20	51.37	...		57	54.4	R	7	...		27	16.63	...		51	55.7	M
Dec. 8	5.0		20	51.66	...		57	52.6	R	8	...		27	16.65	...		51	55.5	M
<b>93</b> <i>Anon.</i>										Dec. 9									
Dec. 9	10.0	3	21	18.22	...	71	56	10.6	R	9	...		27	16.52	...		51	54.9	M
22	10.0		21	18.24	...		56	11.9	R	Dec. 25	...		27	16.55	...		51	53.4	R
25	10.0		21	18.24	...		56	10.1	R	<b>100</b> <i>R. P. L. 34.</i>									
28	10.0		21	18.11	...		56	11.4	R	Dec. 27	...	3	27	21.65	3	3	44	4.6	R
<b>94</b> <i>35 Persei σ</i>										29									
Feb. 4	...	3	22	7.24	...	42	25	13.7	M	...	...		27	23.22	3		44	5.4	R
Dec. 11	...		22	7.03	...		25	14.0	M	<b>101</b> <i>Lacaille 1164.</i>									
16	...		22	6.98	...		25	13.3	M	Feb. 3	...	3	29	38.46	...	156	53	46.0	M
<b>95</b> <i>Anon.</i>										4									
Jan. 17	9.5	3	22	56.32	...	71	40	31.5	M	...	...		29	38.34	5		53	45.5	M
26	9.5		22	56.48	...		40	32.7	M	<b>102</b> <i>Lalande 6656.</i>									
Nov. 18	9.0		22	56.22	...		40	32.6	R	Jan. 3	9.0	3	30	29.85	...	71	47	59.9	M
Dec. 3	9.2		22	56.33	...		40	32.8	R	<b>103</b> <i>Lacaille 1188.</i>									
4	9.3		22	56.49	...		40	32.7	R	Jan. 10	...	3	33	4.21	...	156	9	47.4	M
7	9.5		22	56.52	...		40	32.2	R	16	6.0		33	4.16	...		9	48.3	M
14	9.5		22	56.35	...		40	31.6	M	26	6.0		33	3.98	...		9	48.8	M
<b>96</b> <i>17 Eridani.</i>										<b>104</b> <i>τ Fornacis.</i>									
Dec. 10	...	3	24	39.83	...	95	29	16.5	M	Jan. 17	6.0	3	33	48.27	...	118	20	11.1	M
13	...		24	39.81	...		29	15.6	M	22	...		33	48.14	...		20	11.1	M
<b>97</b> <i>Lalande 6483.</i>										27									
Jan. 19	9.5	3	24	52.60	...	71	36	36.9	M	27	6.0		33	48.21	...		20	10.7	M
24	9.0		24	52.33	...		36	37.6	M	<b>105</b> <i>Radcliffe 1039</i>									
Nov. 24	9.0		24	52.41	4		36	38.5	R	Jan. 19	6.0	3	35	33.25	...	27	2	6.4	M
25	9.0		24	52.38	...		36	38.7	R	24	6.0		35	33.52	...		2	7.1	M
										Feb. 2									
										6.0									
										35									
										33.22									
										...									
										2									
										6.0									
										M									

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.																										
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"																											
<b>106</b> <i>40 Persei o</i>										<b>113</b> <i>20 Tauri, Maia.</i>																																			
Jan. 7	...	3	36	47.74	...	58	5	36.8	M	Dec. 3	...	3	38	41.24	...	66	0	32.7	R	Dec. 28	...	38	41.42	...	0	30.7	R	Dec. 31	...	38	41.16	...	0	31.2	M										
<b>107</b> <i>41 Persei v</i>										<b>114</b> <i>21 Tauri, k Asterope.</i>																																			
Jan. 23	...	3	37	2.75	...	47	48	4.7	M	Dec. 8	7.0	3	38	45.06	...	65	49	16.6	R	Dec. 25	7.0	38	45.15	...	49	15.8	R	Dec. 29	7.0	38	45.10	...	49	17.8	R										
Feb. 5	...		37	2.63	...		48	5.4	M																																				
9	...		37	2.86	...		48	5.8	M																																				
11	...		37	2.76	...		48	4.9	M																																				
<b>108</b> <i>δ Fornacis.</i>										<b>115</b> <i>22 Tauri, l Asterope.</i>																																			
Feb. 7	5.0	3	37	28.53	...	122	19	21.8	M	Dec. 7	7.0	3	38	54.02	...	65	50	52.2	R																										
Dec. 14	5.5		37	28.38	...		19	20.0	M																																				
15	5.5		37	28.50	...		19	21.1	M																																				
17	5.5		37	28.34	...		19	18.4	M																																				
18	...		37	28.37	...		19	21.0	M																																				
<b>109</b> <i>16 Tauri, Celæno.</i>										<b>116</b> <i>23 Tauri, Merope.</i>																																			
Feb. 10	...	3	37	40.15	...	66	5	22.0	M	Dec. 11	...	3	39	12.36	...	66	25	37.3	M	Dec. 13	...	39	12.38	...	25	37.3	M																		
Nov. 19	...		37	40.30	...		5	21.1	R																																				
24	...		37	40.26	...		5	23.4	R																																				
<b>110</b> <i>γ Camelopardi.</i>										<b>117</b> <i>25 Tauri η, Aleyone.</i>																																			
Dec. 27	...	3	37	42.30	...	19	2	21.8	R	Jan. 21	...	3	40	21.11	...	66	16	2.3	M																										
<b>111</b> <i>19 Tauri, Taygeta.</i>										<b>118</b> <i>W. B. N. III. 883.</i>																																			
Nov. 25	5.0	3	38	3.92	...	65	54	38.1	R	Jan. 6	9.2	3	41	3.63	...	71	42	28.8	M	Jan. 8	9.2	41	3.43	...	42	32.5	M																		
Dec. 4	5.0		38	4.09	...		54	38.9	R																																				
16	5.0		38	4.01	...		54	38.9	M																																				
20	...		38	4.07	...		54	38.1	M																																				
22	5.0		38	3.92	...		54	37.6	R																																				
<b>112</b> <i>Radcliffe 1053.</i>										<b>119</b> <i>Taylor 1304.</i>																																			
Feb. 6	5.5	3	38	32.94	...	24	50	50.0	M	Jan. 13	5.6	3	41	32.33	...	137	44	4.0	M	Jan. 20	...	41	32.26	...	44	3.9	M	Feb. 3	6.0	41	32.43	...	44	3.8	M										
12	...		38	32.92	...		50	48.3	M																																				
Dec. 30	5.0		38	32.89	...		50	50.7	M																																				
<b>120</b> <i>27 Tauri, Atlas.</i>										<b>120</b> <i>27 Tauri, Atlas.</i>																																			
Feb. 4	...	3	42	1.78	...	66	18	53.3	M	Feb. 4	...	3	42	1.78	...	66	18	53.3	M	Nov 25	...	42	1.57	...	18	52.2	R	Dec. 18	...	42	1.54	...	18	52.9	M	Dec. 22	...	42	1.64	...	18	53.3	R		

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>121</b> <i>28 Tauri, Pleione.</i>										<b>127</b> <i>Radcliffe 1089.</i>									
Nov. 19	...	3	42	2:39	...	66	13	52:0	R	Jan. 15	5:0	3	46	50:77	...	27	16	53:0	M
24	...		42	2:34	...		13	53:4	R	19	...		46	50:69	...		16	52:7	M
Dec. 4	...		42	2:36	...		13	53:1	R	Feb. 6	6:0		46	50:75	...		16	56:6	M
<b>122</b> <i>28 Eridani <math>\tau^7</math></i>										<b>128</b> <i><math>\nu^3</math> Eridani.</i>									
Jan. 26	...	3	42	29:85	...	114	14	50:2	M	Jan. 23	...	3	49	4:47	...	125	5	17:2	M
Feb. 10	...		42	29:97	...		14	50:6	M	26	...		49	4:59	4		5	17:9	M
13	...		42	30:05	...		14	50:7	M	Feb. 3	...		49	4:76	...		5	17:6	M
Dec. 10	...		42	29:74	...		14	53:1	M	<b>129</b> <i>45 Persei <math>\epsilon</math></i>									
14	...		42	29:89	...		14	50:6	M	Jan. 13	...	3	49	48:38	...	50	20	19:5	M
<b>123</b> <i><math>f^1</math> Eridani—1st.</i>										<b>130</b> <i>34 Eridani <math>\gamma^1</math></i>									
Jan. 17	...	3	44	9:94	...	127	59	24:2	M	Dec. 3	...	3	52	25:39	...	103	51	3:9	R
27	...		44	9:98	...		59	24:0	M	28	...		52	25:75	...		51	2:6	R
Feb. 2	...		44	9:85	...		59	23:9	M	29	...		52	25:66	...		51	3:6	R
9	...		44	9:94	...		59	24:9	M	<b>131</b> <i>35 Eridani.</i>									
<b>124</b> <i><math>f^2</math> Eridani.</i>										<b>132</b> <i>38 Tauri <math>\nu</math></i>									
Jan. 12	...	3	44	10:11	...	127	59	16:1	M	Jan. 22	...	3	55	27:28	6	91	53	14:2	M
24	...		44	10:21	...		59	16:9	M	Feb. 2	...		55	27:13	...		53	12:7	M
Feb. 5	...		44	10:00	...		59	17:7	M	<b>133</b> <i>38 Reticuli.</i>									
14	...		44	10:15	...		59	16:6	M	Feb. 4	...	3	56	46:57	...	84	20	40:9	M
Dec. 3	...		44	10:08	...		59	15:8	R	6	...		56	46:45	...		20	42:8	M
<b>125</b> <i>Lalande 7131.</i>										<b>134</b> <i>37 Tauri A<sup>1</sup>.</i>									
Jan. 10	9:4	3	45	23:93	...	71	26	34:1	M	Jan. 6	...	3	57	36:12	...	68	14	51:2	M
<b>126</b> <i>W Tauri, Var.</i>										Feb. 5	6:0	3	56	50:36	...	151	44	24:6	M
Dec. 15	7:5	3	46	45:57	...	82	35	7:5	M	11	...		56	50:73	...		44	22:0	M
16	7:5		46	45:83	...		35	6:4	M	Nov. 19	5:0		56	50:79	5		44	24:5	R
25	7:8		46	45:82	...		35	4:9	R	Dec. 10	5:0		56	50:83	...		44	25:3	M
27	8:0		46	45:96	...		35	5:6	R	11	5:0		56	50:85	...		44	24:4	M
28	8:0		46	45:74	...		35	4:6	R	<b>134</b> <i>37 Tauri A<sup>1</sup>.</i>									
30	8:0		46	45:76	...		35	9:0	M	Jan. 6	...	3	57	36:12	...	68	14	51:2	M
31	8:0		46	45:86	...		35	8:0	M	7	...		57	36:07	...		14	50:6	M
										8	...		57	36:00	...		14	51:1	M

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.		
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"			
Jan. 9	...	3	57	36.21	...	68	14	51.6	M	<b>141</b>	38 Eridani $\alpha^1$	Dec. 10	...	4	6	0.53	...	97	9	6.4	M
10	...	57	36.05	...	14	51.7	M	11	...			6	0.48	...	9	4.5	M				
12	...	57	35.96	...	14	51.3	M	13	...			6	0.51	...	9	3.8	M				
13	...	57	36.08	...	14	51.3	M	14	...			6	0.29	...	9	7.1	M				
15	...	57	36.06	...	14	50.0	M	15	...			6	0.40	...	9	6.7	M				
16	...	57	36.07	...	14	52.8	M	17	...			6	0.45	...	9	5.2	M				
31	...	57	36.09	...	14	50.5	M	27	...			6	0.46	...	9	5.5	R				
<b>135</b> 47 Persei $\lambda$										<b>142</b> 52 Persei $f$ .											
Jan. 3	...	3	57	38.69 <sup>5</sup>	...	89	58	33.4	M	Jan. 13	...	4	6	43.41	...	49	49	17.8	M		
23	...	57	38.90	...	58	34.5	M	<b>143</b> 39 Eridani A.													
27	...	57	38.80	...	58	33.5	M	Jan. 15	...	4	8	40.98	...	100	33	16.9	M				
<b>136</b> Lacaille 1339.										19	...	8	41.04	...	33	17.1	M				
Dec. 25	8.0	3	59	7.33 <sup>4</sup>	...	134	43	14.4	R	21	...	8	41.10	...	33	18.5	M				
27	8.0	59	7.68 <sup>3.5</sup>	...	43	16.2	R	<b>144</b> 40 Eridani $\alpha^2$													
28	8.0	59	7.37 <sup>3.5</sup>	...	43	15.4	R	Jan. 6	5.0	4	9	44.78	...	97	50	26.3	M				
29	8.0	59	7.41 <sup>3.5</sup>	...	43	15.3	R	7	5.0	9	44.97	...	50	27.4	M						
30	8.0	59	7.44 <sup>3.0</sup>	...	43	16.9	M	17	5.0	9	44.96	...	50	26.7	M						
<b>137</b> $\gamma$ Reticuli.										Feb. 2	5.0	9	45.04	...	50	26.1	M				
Feb. 7	5.0	3	59	9.74	...	152	29	41.2	M	<b>145</b> $\alpha$ Horologii.											
12	...	59	9.80	...	29	41.5	M	Jan. 20	...	4	10	1.31	...	132	35	29.2	M				
Dec. 13	...	59	9.78	3	29	44.0	M	Feb. 3	5.0	10	1.56	...	35	27.8	M						
14	5.0	59	9.76	...	29	48.6	M	<b>146</b> 54 Tauri $\gamma$													
<b>138</b> $\epsilon$ Reticuli.										Jan. 8	...	4	12	57.97	...	74	39	50.3	M		
Feb. 3	...	3	59	21.65	...	151	24	57.3	M	9	...	12	57.88	...	39	50.6	M				
13	...	59	21.40	...	24	54.6	M	10	...	12	57.99	...	39	48.0	M						
14	...	59	21.46	...	24	55.8	M	12	...	12	57.85	...	39	47.8	M						
<b>139</b> R. P. L. 35.										13	...	12	57.88	...	39	47.7	M				
Dec. 22	...	3	59	23.55	3	4	45	47.8	R	15	...	12	58.04	...	39	50.1	M				
<b>140</b> 48 Persei $c$ .										16	...	12	57.99	...	39	51.2	M				
Jan. 17	...	3	59	57.17	...	42	36	34.8	M	Feb. 4	...	12	57.95	...	39	49.3	M				
21	...	59	56.95	...	36	33.5	M	5	...	12	57.95	...	39	50.6	M						
24	...	59	57.24	...	36	33.7	M	6	...	12	58.03	...	39	50.9	M						
										7	...	12	57.86	...	39	50.4	M				
										9	...	12	58.06	...	39	48.7	M				

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.				
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"					
Feb. 10	...	4	12	58.02	...	74	39	50.2	M	<b>153</b>	...	<i>51 Eridani ε.</i>			...	92	42	54.6	M				
11	...	12	57.91	...	39	48.7	M	Jan. 17	...			4	31	33.90						...	42	53.0	M
Dec. 15	...	12	57.71	...	39	49.8	M	22	...			31	33.81	...						42	51.6	M	
16	...	12	58.11	...	39	49.2	M	23	...			31	33.89	...						42	51.6	M	
18	...	12	57.71	...	39	49.7	M																
<b>147</b>		<i>73 Tauri π</i>								<b>154</b>		<i>Anon.</i>											
Jan. 7	...	4	19	49.52	...	75	33	32.4	M	Feb. 17	10.0	4	34	23.79	...	130	49	45.5	M				
8	...	19	49.56	...	33	31.4	M			<b>155</b>		<i>α Cæli.</i>											
<b>148</b>		<i>74 Tauri ε</i>								Jan. 3	...	4	36	41.76	...	132	5	36.1	M				
Jan. 3	...	4	21	36.54	...	71	5	12.2	M	<b>156</b>		<i>4 Camelopardi.</i>											
17	...	21	36.72	...	5	15.6	M			Jan. 7	...	4	38	0.19 <sup>5</sup>	...	33	27	28.2	M				
19	...	21	36.69	...	5	12.9	M			8	...	38	0.52 <sup>4</sup>	...	27	28.7	M	0.45					
Dec. 16	...	21	36.55	...	5	16.2	M												0.67				
17	...	21	36.48	...	5	12.9	M			<b>157</b>		<i>57 Eridani μ</i>											
18	...	21	36.55	...	5	15.2	M			Jan. 10	...	4	39	30.07	...	93	28	32.7	M				
22	...	21	36.56	...	5	15.1	R			12	...	39	30.20	...	28	33.4	M						
<b>149</b>		<i>47 Eridani.</i>								13	...	39	30.17	...	28	31.8	M						
Jan. 6	5.0	4	28	24.65	...	98	28	59.8	M	15	...	39	30.04	...	28	33.5	M						
9	5.0	28	24.70	...	28	38.2	M			16	...	39	30.09	...	28	35.2	M						
12	5.5	28	24.66	...	29	0.5	M			Dec. 31	...	39	30.24	...	28	33.6	M	0.02					
15	5.5	28	24.69	...	28	58.7	M			<b>158</b>		<i>λ Cæli.</i>											
<b>150</b>		<i>87 Tauri α, Aldebaran.</i>								Jan. 17	5.6	4	39	47.79	...	131	17	20.6	M				
Jan. 20	...	4	29	2.03	...	73	44	2.4	M	19	6.0	39	47.71	...	17	20.5	M						
24	...	29	2.19	...	44	2.1	M			<b>159</b>		<i>ζ Cæli.</i>											
31	...	29	2.04	...	41	1.3	M			Jan. 22	6.0	4	41	52.30	...	129	34	29.6	M				
Feb. 2	...	29	2.06	...	43	59.8	M			24	6.0	41	52.20	...	34	27.4	M						
<b>151</b>		<i>88 Tauri δ.</i>								Feb. 2	...	41	52.01	5	34	25.6	M						
Jan. 8	...	4	29	3.59	...	80	5	14.5	M	4	6.0	41	52.22	...	34	27.1	M						
10	...	29	3.81	...	5	12.7	M			<b>160</b>		<i>9 Camelopardi α</i>											
13	...	29	3.68	...	5	13.2	M			Jan. 21	...	4	42	7.53	...	23	51	45.7	M				
<b>152</b>		<i>90 Tauri ε<sup>1</sup>.</i>								23	...	42	7.64	...	51	48.5	M						
Jan. 16	...	4	31	27.02	...	77	43	54.1	M	Feb. 3	...	42	7.81	...	51	48.2	M						
19	...	31	26.93	...	43	52.8	M			7	...	42	7.78	...	51	50.0	M						
21	...	31	26.79	...	43	52.0	M			9	...	42	7.68	...	51	49.6	M						

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>161</b> 1 Orionis $\pi^1$										<b>168</b> 8 Orionis $\pi^5$									
Feb. 5	...	4	48	19.59	...	88	14	59.9	M	Jan. 19	...	4	48	0.05	...	87	45	25.0	M
10	...	48	19.55	...	14	58.8	M	Feb. 24	...	48	0.16	...	45	25.0	M				
12	...	48	19.65	...	14	57.5	M	27	...	48	0.28	...	45	26.3	M				
Mar. 2	...	48	19.64	...	14	59.9	R	Mar. 2	...	48	0.05	...	45	26.6	R				
3	...	48	19.74	...	14	59.5	R	3	...	48	0.13	...	45	26.3	R				
<b>162</b> 2 Orionis $\pi^2$										<b>169</b> $\iota^1$ Pictoris.									
Jan. 6	...	4	44	4.27	...	81	18	22.6	M	Feb. 7	...	4	48	14.87	...	143	40	1.1	M
										28	...	48	14.89	...	39	57.9	M		
<b>163</b> 3 Orionis $\pi^3$										<b>170</b> 9 Orionis $\sigma^2$									
Feb. 6	...	4	44	48.37	...	84	36	6.9	M	Jan. 12	...	4	49	37.83	...	76	40	36.9	M
11	...	44	49.01	...	36	8.6	M	15	...	49	37.50	...	40	36.1	M				
18	...	44	49.05	...	36	8.8	M												
<b>164</b> 4 Orionis $\sigma^1$										<b>171</b> R Eridani, Var.									
Feb. 14	...	4	45	44.69	...	75	57	3.1	M	Dec. 18	5.5	4	49	55.14	...	106	36	46.9	M
16	...	45	44.62	...	57	1.6	M	25	5.6	49	55.34	...	36	44.4	R				
									27	6.0	49	55.29	...	36	47.0	R			
									28	6.2	49	55.14	...	36	46.9	R			
									29	6.4	49	55.18	...	36	46.0	R			
									30	6.5	49	55.26	...	36	48.4	M			
									31	6.5	49	55.39	...	36	47.8	M			
<b>165</b> $\nu$ Cæli.										<b>172</b> A. Aurigæ									
Jan. 9	5.6	4	46	21.45	...	181	31	41.9	M										
Feb. 17	...	46	22.01	...	31	45.8	M												

55.25  
0.05  
11  
17  
33



## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<b>175</b> <i>63 Eridani.</i>									
Jan. 20	...	4	54	9.45	...	100	26	23.4	M
Feb. 6	...	54	9.59	...	...	26	26.5	M	
<b>176</b> <i>S Eridani, Var.</i>									
Dec. 25	5.0	4	54	21.09	...	102	42	53.2	R
27	5.4	54	21.23	...	...	42	55.7	R	
<b>177</b> <i>65 Eridani <math>\psi</math></i>									
Jan. 21	...	4	55	37.13	...	97	21	3.9	M
Feb. 10	...	55	37.13	...	...	21	5.4	M	
13	...	55	37.27	...	...	21	3.5	M	
<b>178</b> <i>11 Camelopardi.</i>									
Feb. 5	...	4	55	42.70	...	31	11	52.6	M
9	...	55	42.82	...	...	11	51.4	M	
12	...	55	42.93	...	...	11	51.6	M	
<b>179</b> <i>Taylor 1796.</i>									
Feb. 14	5.5	4	56	13.13	...	110	13	38.1	M
16	5.5	56	13.33	...	...	13	38.9	M	
23	5.5	56	13.17	...	...	13	40.1	M	
Dec. 28	5.6	56	13.28	...	...	13	38.0	R	
29	5.6	56	13.02	...	...	13	38.6	R	
<b>180</b> <i>Taylor 1806.</i>									
Jan. 6	5.0	4	57	16.81	...	116	26	46.6	M
8	5.0	57	16.83	...	...	26	45.5	M	
Feb. 11	5.5	57	16.85	...	...	26	47.0	M	
<b>181</b> <i>9 Aurigæ.</i>									
Feb. 17	...	4	57	16.92	...	38	33	50.2	M
20	...	57	17.03	...	...	33	50.7	M	
25	...	57	16.77	...	...	33	48.9	M	
Mar. 2	...	57	16.95	...	...	33	51.4	R	
4	...	57	16.85	...	...	33	51.1	R	
<b>182</b> <i>10 Aurigæ <math>\eta</math></i>									
Feb. 7	...	4	58	6.07	...	48	55	46.4	M
18	...	58	6.20	...	...	55	47.3	M	
21	...	58	6.15	...	...	55	46.6	M	
Dec. 30	...	58	6.01	...	...	55	48.1	M	
31	...	58	6.06	...	...	55	48.3	M	
<b>183</b> <i><math>\eta^1</math> Pictoris.</i>									
Jan. 9	5.6	4	59	40.32	...	139	19	16.4	M
19	6.0	59	40.53	...	...	19	14.0	M	
<b>184</b> <i>Taylor 1836.</i>									
Jan. 12	7.0	5	0	9.27	...	139	39	39.6	M
16	7.0	0	9.36	...	...	39	39.5	M	
24	7.0	0	9.28	...	...	39	37.9	M	
<b>185</b> <i><math>\eta^2</math> Pictoris.</i>									
Jan. 3	5.6	5	1	51.61	...	139	45	27.2	M
10	5.6	1	51.42	...	...	45	26.5	M	
<b>186</b> <i>Radcliffe 1402.</i>									
Feb. 3	...	5	2	48.72	...	10	54	39.7	M
6	...	2	48.59	...	...	54	44.3	M	
24	...	2	48.81	...	...	54	39.4	M	
Mar. 3	...	2	48.53	...	...	54	40.3	R	
4	...	2	48.51	...	...	54	42.1	R	
<b>187</b> <i><math>\zeta</math> Doradus.</i>									
Jan. 23	5.0	5	3	27.35	...	147	38	13.0	M
<b>188</b> <i>11 Aurigæ <math>\mu</math></i>									
Jan. 13	...	5	5	13.00	...	51	39	35.6	M
17	...	5	13.11	...	...	39	33.6	M	
21	...	5	12.95	...	...	39	33.8	M	
<b>189</b> <i>3 Leporis <math>\iota</math></i>									
Feb. 2	...	5	6	41.90	...	102	0	52.5	M
5	...	6	41.75	...	...	0	54.5	M	



## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>205</b> <i>R. P. L. 40.</i>										<b>213</b> <i>42 Orionis e.</i>									
Jan. 7	...	5	23	41 <sup>0.47</sup> 46	3	4	52	8.8	M	Feb. 3	...	5	29	23.00	...	94	55	6.6	M
15	...		23	40.94	3		52	7.0	M	<b>214</b> <i>Lacaille 1922.</i>									
23	...		23	41.91	3		52	8.3	M	Feb. 4	6.5	5	29	32.67	...	154	1	3.4	M
<b>206</b> <i>32 Orionis A.</i>										6	6.5		29	32.56	...		1	2.4	M
<b>207</b> <i>25 Aurigæ χ</i>										9	6.5		29	32.79	...		1	3.2	M
Jan. 10	...	5	23	41.95	3	4	52	10.5	M	Mar. 2	5.6		29	32.66	...		1	3.9	R
24	...		24	55.11	...		53	53.1	M	3	5.7		29	32.74	...		1	2.2	R
<b>208</b> <i>34 Orionis δ, Var. 1.</i>										<b>215</b> <i>46 Orionis e</i>									
Dec. 10	...	5	25	52.58	...	90	23	23.4	M	Jan. 20	...	5	30	7.49	...	91	16	48.7	M
30	...		25	52.62	...		23	21.9	M	23	...		30	7.46	...		16	47.1	M
<b>209</b> <i>10 Leporis.</i>										31	...		30	7.50	...		16	47.2	M
Jan. 9	...	5	25	59.45	...	110	57	11.7	M	Feb. 27	...		30	7.50	...		16	47.7	M
16	...		25	59.64	...		57	14.1	M	<b>216</b> <i>26 Aurigæ.</i>									
<b>210</b> <i>36 Orionis υ</i>										Jan. 6	...	5	30	55.69	...	59	34	52.0	M
Jan. 13	5.0	5	26	7.70	...	97	23	27.5	M	<b>217</b> <i>53 Orionis κ</i>									
19	5.0		26	7.59	...		23	26.5	M	Jan. 17	...	5	42	3.72	...	99	42	48.7	M
21	6.0		26	7.52	...		23	23.3	M	19	...		42	3.80	...		42	46.7	M
<b>211</b> <i>11 Leporis α</i>										21	...		42	3.93	...		42	48.3	M
Jan. 26	...	5	27	26.17	...	107	54	33.0	M	22	...		42	3.76	...		42	49.6	M
Feb. 24	...		27	26.31	...		54	34.6	M	23	...		42	3.88	...		42	47.4	M
25	...		27	26.20	...		54	33.4	M	21	...		42	3.73	...		42	48.6	M
25	...		27	26.12	...		54	33.4	M	26	...		42	3.94	...		42	48.2	M
<b>212</b> <i>Lacaille 1895.</i>										Feb. 2	...		42	3.88	...		42	48.0	M
Feb. 2	...	5	28	43.98	...	123	35	55.0	M	3	...		42	3.89	...		42	49.5	M
<b>213</b> <i>Taylor 2170.</i>										4	...		42	3.91	...		42	48.8	M
Jan. 3	5.0	5	43	7.99 <sup>2.72</sup>	...	136	38	30.8	M	5	...		42	3.69	...		42	48.9	M
<b>214</b> <i>Taylor 2170.</i>										6	...		42	3.91	...		42	49.9	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	7	...		42	3.81	...		42	49.7	M
<b>215</b> <i>Taylor 2170.</i>										9	...		42	3.82	...		42	48.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	10	...		42	3.78	...		42	48.1	M
<b>216</b> <i>Taylor 2170.</i>										Mar. 1	...		42	3.87	...		42	47.9	R
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	<b>217</b> <i>Taylor 2170.</i>									
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	Jan. 17	...	5	42	3.72	...	99	42	48.7	M
<b>218</b> <i>Taylor 2170.</i>										19	...		42	3.80	...		42	46.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	21	...		42	3.93	...		42	48.3	M
<b>219</b> <i>Taylor 2170.</i>										22	...		42	3.76	...		42	49.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	23	...		42	3.88	...		42	47.4	M
<b>220</b> <i>Taylor 2170.</i>										21	...		42	3.73	...		42	48.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	26	...		42	3.94	...		42	48.2	M
<b>221</b> <i>Taylor 2170.</i>										Feb. 2	...		42	3.88	...		42	48.0	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	3	...		42	3.89	...		42	49.5	M
<b>222</b> <i>Taylor 2170.</i>										4	...		42	3.91	...		42	48.8	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	5	...		42	3.69	...		42	48.9	M
<b>223</b> <i>Taylor 2170.</i>										6	...		42	3.91	...		42	49.9	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	7	...		42	3.81	...		42	49.7	M
<b>224</b> <i>Taylor 2170.</i>										9	...		42	3.82	...		42	48.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	10	...		42	3.78	...		42	48.1	M
<b>225</b> <i>Taylor 2170.</i>										Mar. 1	...		42	3.87	...		42	47.9	R
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	<b>226</b> <i>Taylor 2170.</i>									
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	Jan. 17	...	5	42	3.72	...	99	42	48.7	M
<b>227</b> <i>Taylor 2170.</i>										19	...		42	3.80	...		42	46.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	21	...		42	3.93	...		42	48.3	M
<b>228</b> <i>Taylor 2170.</i>										22	...		42	3.76	...		42	49.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	23	...		42	3.88	...		42	47.4	M
<b>229</b> <i>Taylor 2170.</i>										21	...		42	3.73	...		42	48.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	26	...		42	3.94	...		42	48.2	M
<b>230</b> <i>Taylor 2170.</i>										Feb. 2	...		42	3.88	...		42	48.0	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	3	...		42	3.89	...		42	49.5	M
<b>231</b> <i>Taylor 2170.</i>										4	...		42	3.91	...		42	48.8	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	5	...		42	3.69	...		42	48.9	M
<b>232</b> <i>Taylor 2170.</i>										6	...		42	3.91	...		42	49.9	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	7	...		42	3.81	...		42	49.7	M
<b>233</b> <i>Taylor 2170.</i>										9	...		42	3.82	...		42	48.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	10	...		42	3.78	...		42	48.1	M
<b>234</b> <i>Taylor 2170.</i>										Mar. 1	...		42	3.87	...		42	47.9	R
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	<b>235</b> <i>Taylor 2170.</i>									
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	Jan. 17	...	5	42	3.72	...	99	42	48.7	M
<b>236</b> <i>Taylor 2170.</i>										19	...		42	3.80	...		42	46.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	21	...		42	3.93	...		42	48.3	M
<b>237</b> <i>Taylor 2170.</i>										22	...		42	3.76	...		42	49.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	23	...		42	3.88	...		42	47.4	M
<b>238</b> <i>Taylor 2170.</i>										21	...		42	3.73	...		42	48.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	26	...		42	3.94	...		42	48.2	M
<b>239</b> <i>Taylor 2170.</i>										Feb. 2	...		42	3.88	...		42	48.0	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	3	...		42	3.89	...		42	49.5	M
<b>240</b> <i>Taylor 2170.</i>										4	...		42	3.91	...		42	48.8	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	5	...		42	3.69	...		42	48.9	M
<b>241</b> <i>Taylor 2170.</i>										6	...		42	3.91	...		42	49.9	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	7	...		42	3.81	...		42	49.7	M
<b>242</b> <i>Taylor 2170.</i>										9	...		42	3.82	...		42	48.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	10	...		42	3.78	...		42	48.1	M
<b>243</b> <i>Taylor 2170.</i>										Mar. 1	...		42	3.87	...		42	47.9	R
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	<b>244</b> <i>Taylor 2170.</i>									
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	Jan. 17	...	5	42	3.72	...	99	42	48.7	M
<b>245</b> <i>Taylor 2170.</i>										19	...		42	3.80	...		42	46.7	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	21	...		42	3.93	...		42	48.3	M
<b>246</b> <i>Taylor 2170.</i>										22	...		42	3.76	...		42	49.6	M
Jan. 3	5.0	5	43	7.99	...	136	38	30.8	M	23	...		42	3.88	...		42	47.4	M
<b>247</b> <i>Taylor 2170.</i>										21									

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>219</b>		136 <i>Tauri</i> .								<b>228</b>		Anon.							
Jan. 6	...	5	45	<sup>6.72</sup> 47.00	...	62	25	3.9	M	Feb. 17	...	5	55	23.14	...	121	30	50.5	M
<b>220</b>		Taylor 2214.								<b>229</b>		3 <i>Monocerotis</i> .							
Jan. 7	...	5	48	<sup>62</sup> 10.50	...	142	8	12.7	M	Jan. 8	...	5	56	11.83	...	100	36	1.8	M
<b>221</b>		58 <i>Crionis</i> , a Var 2, <i>Betelgeux</i> .								<b>230</b>		R. P. L. 43.							
Jan. 21	...	5	48	40.46	...	82	36	59.5	M	Mar. 4	...	5	59	<sup>9.33</sup> 8.29	3	3	14	13.2	R
27	...		48	40.46	...		37	1.9	M	<b>231</b>		37 <i>Camelopardi</i> .							
<b>222</b>		33 <i>Aurigæ</i> $\delta$								Jan. 6	...	5	59	<sup>S</sup> 23.67	...	31	3	5.5	M
Jan. 8	...	5	49	<sup>87</sup> 38.95	...	35	43	38.5	M	7	...		59	23.76	...		3	5.3	M
10	...		49	38.87	...		43	37.4	M	10	...		59	23.74	...		3	5.0	M
<b>223</b>		Taylor 2232.								<b>232</b>		17 <i>Leporis</i> .							
Jan. 12	5.6	5	50	<sup>61</sup> 19.54	...	147	10	45.0	M	Jan. 17	...	5	59	37.92	...	106	28	38.6	M
15	...		50	19.74	...		10	42.1	M	23	...		59	37.90	...		28	37.1	M
19	5.6		50	19.56	...		10	41.2	M	Feb. 3	...		59	37.93	...		28	38.7	M
<b>224</b>		35 <i>Aurigæ</i> $\pi$								4	...		59	38.14	...		28	39.6	M
Jan. 9	...	5	51	<sup>65</sup> 1.50	...	44	4	34.3	M	7	...		59	38.10	...		28	39.7	M
<b>225</b>		$\delta^2$ <i>Columbæ</i> .								<b>233</b>		67 <i>Orionis</i> $\nu$							
Jan. 13	5.6	5	51	<sup>5</sup> 22.32	...	127	8	20.7	M	Jan. 22	...	6	0	43.20	...	75	13	4.3	M
16	5.6		51	22.46	...		8	21.5	M	Feb. 20	...		0	43.10	...		13	6.0	M
<b>226</b>		37 <i>Aurigæ</i> $\theta$								Mar. 1	...		0	43.16	...		13	5.8	R
Feb. 3	...	5	51	32.17	...	52	47	48.8	M	3	...		0	43.19	...		13	4.9	R
6	...		51	32.25	...		47	53.3	M	<b>234</b>		Taylor 2315.							
9	...		51	32.11	...		47	50.4	M	Jan. 9	5.6	6	1	<sup>15</sup> 1.00	...	135	2	10.4	M
11	...		51	31.99	...		47	49.1	M	<b>235</b>		$\rho^2$ <i>Columbæ</i> .							
Mar. 3	...		51	31.98	...		47	49.1	R	Jan. 15	...	6	5	2.77	...	134	20	10.9	M
<b>227</b>		Lacaille 2106.								<b>236</b>		Radclyffe 1664.							
Jan. 22	5.0	5	53	11.24	...	153	7	39.6	M	Feb. 5	...	6	5	36.98	...	20	38	28.5	M
23	5.0		53	11.20	...		7	36.2	M	9	...		5	37.11	...		38	28.1	M
										11	...		5	37.00	...		38	27.7	M
										Mar. 2	...		5	37.00	...		38	28.2	R
										4	...		5	<sup>21</sup> 37.13	...		38	29.0	R

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Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
<b>237</b> Brisbane 1172.						<b>244</b> Taylor 2458.					
Jan. 19	6.0	6 5 57.79	5	152 8 1.6	M	Jan. 7	...	6 16 15 <sup>46</sup> <sub>00</sub>	...	124 5 27.7	M
21	6.0	5 57.56	...	8 2.3	M	<b>245</b> Taylor 2578.					
24	6.0	5 57.70	...	8 4.8	M	Jan. 6	5.6	6 30 8 <sup>37</sup> <sub>00</sub>	...	122 37 21.6	M
<b>238</b> B. F. 864.						Jan. 9	5.6	30 8 <sup>39</sup> <sub>00</sub>	...	37 19.8	M
Jan. 16	...	6 6 1.49	...	96 31 27.6	M	<b>246</b> 24 Geminorum $\gamma$					
<b>239</b> 1 Lyncis.						Feb. 2	...	6 30 46.81	...	73 30 0.5	M
Feb. 4	...	6 5 50.87	...	28 26 54.2	M	23	...	30 46.76	...	30 1.0	M
10	...	6 50.82	...	26 53.9	M	Mar. 4	...	30 46.81	...	30 3.5	R
16	...	6 50.99	...	26 52.6	M	17	...	30 46.81	...	30 2.0	T
Mar. 1	...	6 50.85	...	26 53.5	R	<b>247</b> Taylor 2604.					
3	...	6 50.74	...	26 53.8	R	Jan. 10	5.0	6 32 19 <sup>00</sup> <sub>00</sub>	...	142 52 40.9	M
<b>240</b> 7 Geminorum $\eta$						12	5.0	32 20 <sup>44</sup> <sub>00</sub>	...	52 42.4	M
Jan. 17	...	6 7 38.00	...	67 27 36.4	M	15	5.0	32 20.12	...	52 39.4	M
Feb. 3	...	7 37.99	...	27 34.1	M	22	5.0	32 19.88	...	52 41.4	M
7	...	7 38.13	...	27 35.8	M	<b>248</b> Taylor 2607.					
13	...	7 37.89	...	27 34.4	M	Jan. 13	5.6	6 33 4.46	...	126 53 20.1	M
14	...	7 37.97	...	27 33.7	M	16	5.6	33 4.42	...	63 22.4	M
20	...	7 38.09	...	27 36.3	M	<b>249</b> 55 Aurige $\psi^4$					
23	...	7 38.09	...	27 37.2	M	Jan. 17	...	6 34 20.79	...	45 21 41.9	M
24	...	7 38.05	...	27 36.9	M	19	...	34 20.90	...	21 43.1	M
26	...	7 38.14	...	27 35.1	M	<b>250</b> 31 Geminorum $\xi$					
27	...	7 38.01	...	27 34.0	M	Feb. 9	...	6 38 33.16	...	76 58 33.5	M
28	...	7 38.02	...	27 35.0	M	10	...	38 33.22	...	58 34.5	M
<b>241</b> 2 Lyncis.						11	...	38 33.37	...	58 35.2	M
Jan. 3	...	6 9 1.97	...	30 56 54.6	M	12	...	38 33.25	...	58 35.2	M
<b>242</b> 74 Orionis $k^3$ .						16	...	38 33.23	...	58 35.2	M
Jan. 6	...	6 9 42.15	...	77 41 46.0	M	24	...	38 33.19	...	58 33.8	M
<b>243</b> 13 Geminorum $\mu$						25	...	38 33.27	...	58 33.7	M
Jan. 19	...	6 15 41.98	...	67 25 35.8	M	26	...	38 33.27	...	58 35.0	M
Feb. 21	...	15 42.13	...	25 33.6	M	28	...	38 33.20	...	58 33.3	M
Mar. 2	...	15 42.07	...	25 36.8	R	Mar. 2	...	38 33.23	...	58 36.4	R
4	...	15 42.00	...	25 36.9	R	19	...	38 33.38	...	58 33.3	T

*Separate Results of Madras Meridian Circle Observations in 1880.*

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>251</b> <i>43 Camelopardi.</i>									Feb. 14	...	6	48	36.89	..	101	53	20.0	M	
Feb. 4	...	6	40	45.57	...	20	58	29.5	M	16	...	48	36.84	...	53	20.1	M		
6	...	40	45.63	...	...	58	38.9	M	17	...	48	36.90	...	53	21.3	M			
<b>252</b> <i>Taylor 2672.</i>									18	...	48	36.88	...	53	20.0	M			
Feb. 13	8.0	6	40	48.16	...	110	38	57.6	M	25	...	48	36.91	...	53	19.2	M		
18	8.0	40	48.31	...	...	38	57.3	M	27	...	48	36.78	...	53	20.3	M			
20	...	40	48.12	...	...	38	56.5	M	28	...	48	36.92	...	53	21.0	M			
23	7.8	40	48.11	...	...	38	58.2	M	Mar. 6	...	48	36.90	...	53	21.0	R			
<b>253</b> <i>Radcliffe 1813.</i>									24	...	48	36.78	...	53	19.0	T			
Feb. 5	...	6	42	32.51	...	12	52	28.0	M	<b>259</b> <i>19 Canis Majoris.</i>									
...	...	42	32.30	...	...	52	27.6	M	Jan. 17	...	6	50	25.28	...	109	59	4.8	M	
<b>254</b> <i>51 Cephei (Hev.)</i>									19	...	50	25.17	...	59	2.5	M			
Mar. 5	...	6	43	46.27	3	2	46	13.8	R	<b>260</b> <i>23 Canis Majoris γ</i>									
<b>255</b> <i>Lalande 13199.</i>									Jan. 23	...	6	58	19.74	...	105	27	25.5	M	
Feb. 3	8.0	6	45	0.69	...	80	25	10.2	M	Feb. 21	...	58	19.69	...	27	26.8	M		
9	8.0	45	0.47	...	...	25	10.5	M	Mar. 5	...	58	19.79	...	27	26.4	R			
21	8.0	45	0.74	...	...	25	9.8	M	<b>261</b> <i>Taylor 2845.</i>										
Mar. 1	7.8	45	0.78	...	...	25	9.7	R	Jan. 10	5.6	7	0	16.64 <sup>7</sup>	...	133	26	29.5	M	
3	8.0	45	0.77	...	...	25	10.4	R	12	5.6	0	16.59 <sup>5</sup>	...	26	31.2	M			
<b>256</b> <i>h<sup>1</sup> Canis Majoris.</i>									<b>262</b> <i>Taylor 2849.</i>										
Jan. 12	5.6	6	45	51.12	...	121	34	0.1	M	Jan. 13	5.6	7	0	46.67	...	139	24	31.0	M
15	5.6	45	51.26	...	...	33	58.5	M	15	5.6	0	46.48	...	24	30.3	M			
<b>257</b> <i>15 Lynxis.</i>									17	5.6	0	46.56	...	24	28.9	M			
Jan. 10	...	6	46	52.72 <sup>6.9</sup>	...	31	25	21.9	M	<b>263</b> <i>Taylor 2876.</i>									
13	...	46	52.76 <sup>6.8</sup>	...	...	25	21.6	M	Feb. 18	6.0	7	4	46.37	...	115	2	16.6	M	
16	...	46	52.69	...	...	25	23.8	M	20	6.0	4	46.31	...	2	16.7	M			
<b>258</b> <i>14 Canis Majoris θ</i>									21	6.0	4	46.22	...	2	18.2	M			
Feb. 4	...	6	48	36.76	...	101	53	21.3	M	<b>264</b> <i>18 Lynxis.</i>									
6	...	48	36.70	...	...	53	22.5	M	Jan. 16	...	7	5	25.60	...	30	9	8.1	M	
11	...	48	36.76	...	...	53	19.8	M	19	...	5	25.32	...	9	4.6	M			
12	...	48	36.74	...	...	53	19.4	M	21	...	5	25.66	...	9	5.2	M			
13	...	48	36.84	...	...	53	21.8	M											

*Separate Results of Madras Meridian Circle Observations in 1880.*

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
<b>265</b> <i>Radcliffe 1887.</i>										<b>273</b> <i>66 Aurigæ.</i>										
July 17	...	7	5	44.48	4	7	21	50.5	M	Jan. 16	...	7	15	49.76	...	49	5	55.0	M	
Aug. 11	...		5	45.13	7		21	49.3	M	Feb. 10	...		15	49.48	...		5	54.7	M	
Sep. 23	...		5	44.52	3		21	49.4	R	21	...		15	49.70	...		5	54.0	M	
<b>266</b> <i>Radcliffe 1917.</i>										<b>274</b> <i>Taylor 3029.</i>										
Jan. 10	...	7	9	24.69	...	40	19	24.6	M	Feb. 18	6.0	7	18	0.09	...	146	4	13.7	M	
23	...		9	24.72	...		19	23.8	M	20	6.0		17	59.96	...		4	14.4	M	
Feb. 3	...		9	24.74	...		19	23.1	M	23	6.0		17	59.77	5		4	14.6	M	
5	...		9	24.56	...		19	25.1	M	Mar. 2	6.0		17	59.89	...			4	13.7	R
<b>267</b> <i>64 Aurigæ.</i>										<b>275</b> <i>Radcliffe 1949.</i>										
Jan. 12	...	7	9	41.84	...	48	54	18.9	M	Jan. 17	...	7	18	22.54	...	21	17	30.7	M	
15	...		9	41.43	...		54	18.9	M	23	...		18	22.76	...			17	30.5	M
24	...		9	41.23	...		54	21.4	M	24	...		18	22.67	...			17	30.6	M
Feb. 4	...		9	41.45	...		54	20.6	M	<b>276</b> <i>s Puppis.</i>										
<b>268</b> <i>55 Geminorum δ</i>										<b>277</b> <i>3 Canis Minoris β</i>										
Mar. 17	...	7	12	57.30	...	67	47	51.9	T	Jan. 10	5.6	7	18	25.42	...	121	41	36.5	M	
<b>269</b> <i>19 Lyncis—2nd.</i>										<b>278</b> <i>25</i>										
Jan. 13	...	7	13	4.40	...	34	29	42.2	M	12	5.6		18	25.20	...			41	34.8	M
21	...		13	4.25	...		29	40.4	M	15	5.6		18	25.40	...			41	35.9	M
Feb. 6	...		13	4.15	...		29	44.1	M	Feb. 4	6.0		18	25.48	...			41	37.3	M
<b>270</b> <i>Taylor 2975.</i>										<b>279</b> <i>25</i>										
Feb. 7	...	7	14	2.34	...	126	31	0.2	M	Jan. 10	5.6	7	18	25.42	...	121	41	36.5	M	
<b>271</b> <i>Taylor 2984.</i>										<b>280</b> <i>25</i>										
Feb. 9	6.0	7	14	21.40	...	133	46	9.2	M	12	5.6		18	25.20	...			41	34.8	M
12	6.0		14	21.34	...		46	6.7	M	15	5.6		18	25.40	...			41	35.9	M
14	6.0		14	21.42	...		46	6.2	M	Feb. 4	6.0		18	25.48	...			41	37.3	M
<b>272</b> <i>Taylor 2980.</i>										<b>281</b> <i>25</i>										
Feb. 11	5.5	7	14	22.09	...	126	31	27.4	M	Feb. 3	...	7	20	38.55	...	81	28	10.7	M	
13	5.5		14	21.92	...		31	26.0	M	5	...		20	38.70	...			28	12.8	M
16	5.5		14	22.19	...		31	26.1	M	12	...		20	38.67	...			28	10.4	M
										<b>282</b> <i>25</i>										
										<b>283</b> <i>25</i>										
										<b>284</b> <i>25</i>										
										<b>285</b> <i>25</i>										
										<b>286</b> <i>25</i>										
										<b>287</b> <i>25</i>										
										<b>288</b> <i>25</i>										
										<b>289</b> <i>25</i>										
										<b>290</b> <i>25</i>										
										<b>291</b> <i>25</i>										
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										<b>293</b> <i>25</i>										
										<b>294</b> <i>25</i>										
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										<b>296</b> <i>25</i>										
										<b>297</b> <i>25</i>										
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										<b>301</b> <i>25</i>										
										<b>302</b> <i>25</i>										
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										<b>305</b> <i>25</i>										
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										<b>311</b> <i>25</i>										
										<b>312</b> <i>25</i>										
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										<b>320</b> <i>25</i>										
										<b>321</b> <i>25</i>										
										<b>322</b> <i>25</i>										
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										<b>463</b> <i>25</i>										
										<b>464</b> <i>25</i>										
										<b>465</b> <i>25</i>										

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>278</b> 10 <i>Canis Minoris</i> , $\alpha$ <i>Procyon</i> .										<b>285</b> Taylor 3275.									
Jan. 24	...	7	33	1'31	...	84	28	5'3	M	Jan. 22	5'6	7	44	46'00	...	186	46	32'3	M
Mar. 17	...		33	1'24	...		28	4'1	T	Feb. 4	5'6		44	46'12	...		46	35'7	M
24	...		33	0'97	...		28	2'1	T	5	6'0		44	45'99	...		46	34'9	M
Apl. 3	...		33	1'04	...		28	4'4	T										
<b>279</b> 75 <i>Geminorum</i> $\sigma$										<b>286</b> R. P. L. 49.									
Jan. 15	...	7	35	48'52	...	60	49	39'2	M	Feb. 6	...	7	48	0'42	3	5	36	8'3	M
16	...		35	48'60	...		49	40'4	M	12	...		48	0'53	3		36	4'2	M
21	...		35	48'77	...		49	39'1	M	18	...		47	59'31	3		36	5'1	M
										Mar. 1	...		47	59'76	3		36	2'9	R
										2	...		48	0'06	3		36	4'6	R
										3	...		47	59'94	3		36	5'5	R
										Apl. 7	...		47	59'69	7		36	2'8	T
<b>280</b> 1 <i>Puppis</i> .										<b>R. P. L. 49—s.p.</b>									
Jan. 12	5'6	7	38	41'83	...	118	7	36'6	M	Sep. 21	...	7	47	59'69	3	5	36	6'2	R
22	6'0		38	41'73	...		7	37'4	M	29	...		48	0'18	2		36	7'0	R
31	6'0		38	41'75	...		7	35'7	M	30	...		48	0'32	3		36	3'9	R
										Oct. 2	...		47	59'69	3		36	4'1	M
										4	...		48	0'65	3		36	5'7	M
<b>281</b> Taylor 3209.										<b>287</b> 6 <i>Cancri</i> .									
Jan. 13	5'6	7	39	14'38 <sup>42</sup>	...	134	52	11'8	M	Jan. 27	...	7	56	8'37	...	61	52	14'9	M
23	6'0		39	14'30	...		52	11'6	M	Mar. 15	...		56	8'73	...		52	14'9	T
Feb. 2	5'6		39	14'31	...		52	12'7	M	Apl. 15	...		56	8'07	...		52	14'2	T
5	6'0		39	14'29	...		52	11'3	M	17	...		56	8'74	...		52	15'0	T
<b>282</b> Taylor 3265.										<b>288</b> Taylor 3399.									
Jan. 16	5'6	7	43	54'06	...	136	18	43'3	M	Jan. 22	5'6	7	57	53'01	...	143	49	10'0	M
21	6'0		43	53'95	...		18	42'1	M	Feb. 4	6'0		57	52'98	...		49	9'8	M
										7	6'0		57	52'88	...		49	10'8	M
										9	6'0		57	52'68	...		49	10'9	M
<b>283</b> 7 <i>Argus</i> $\xi$										<b>289</b> 27 <i>Lyncis</i> .									
Mar. 4	...	7	44	14'33 <sup>1</sup>	...	114	33	35'9	R	Jan. 21	...	7	59	25'37	...	38	8	57'5	M
22	...		44	14'37 <sup>5</sup>	...		33	33'4	T	23	...		59	25'39	...		8	55'8	M
Apl. 3	...		44	14'36 <sup>5</sup>	...		33	31'7	T										
10	...		44	14'39 <sup>6</sup>	...		33	33'4	T										
<b>284</b> 6 <i>Puppis</i> .																			
Jan. 24	6'0	7	44	15'35	...	106	55	23'9	M										
Feb. 3	5'6		44	15'36	...		55	26'3	M										





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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>302</b> <i>i Carinae.</i>																			
Feb. 25	5.0	9	8	33.28	...	151	49	32.1	M										
27	5.0		8	33.09	...		49	30.7	M										
<b>303</b> <i>83 Cancri.</i>																			
Apl. 26	...	9	12	18.88	...	71	47	12.0	T										
29	...		12	16.89	...		47	11.6	T										
<b>304</b> <i>25 Ursa Majoris θ</i>																			
Apl. 29	...	9	24	49.38	...	37	46	36.8	T										
<b>305</b> <i>14 Leonis o</i>																			
May 1	...	9	34	44.75	...	79	33	42.4	R										
<b>306</b> <i>R. P. L. 69.</i>																			
Feb. 31	...	9	37	57.79	3	2	51	6.3	M										
27	...		37	57.61	3		51	6.3	M										
28	...		37	57.70	3		51	7.7	M										
Apl. 13	...		37	56.68	3		51	5.7	T										
26	...		37	58.23	3		51	6.0	T										
<b>307</b> <i>17 Leonis ε</i>																			
Apl. 19	...	9	39	2.11	...	65	40	26.9	T										
<b>308</b> <i>R. P. L. 70.</i>																			
May 1	...	9	49	8.78	3	5	30	18.1	R										
<b>309</b> <i>29 Leonis π</i>																			
Apl. 26	...	9	53	52.28	...	81	22	48.2	T										
<b>310</b> <i>32 Leonis α, Regulus.</i>																			
Apl. 19	...	10	1	58.87	...	77	26	48.6	T										
<b>311</b> <i>R. P. L. 72—s.p.</i>																			
Sep. 15	...	10	11	57.96 <sup>hd</sup>	3	5	8	24.2	R										
Oct. 20	...		11	57.99 <sup>57</sup>	2		8	26.0	M										
Nov. 6	...		11	57.91	3		8	24.7	R										
<b>312</b> <i>41 Leonis γ<sup>1</sup></i>																			
Apl. 19	...	10	13	21.41	...	69	33	5.7	T										
26	...		13	21.27	...		33	5.0	T										
<b>313</b> <i>47 Leonis ρ</i>																			
May 4	...	10	26	29.56	...	80	4	32.7	R										
5	...		26	29.55	...		4	33.6	R										
<b>314</b> <i>53 Leonis λ.</i>																			
May 4	...	10	42	56.87	...	78	49	11.5	R										
7	...		42	56.90	...		49	11.5	R										
<b>315</b> <i>58 Leonis δ.</i>																			
May 1	...	10	54	21.76	...	85	44	17.6	R										
7	...		54	21.75	...		44	17.0	R										
<b>316</b> <i>R. P. L. 79.</i>																			
Mar. 17	...	10	59	32.15	3	1	42	31.7	T										
19	...		59	35.89	3		42	31.6	T										
<b>317</b> <i>68 Leonis δ</i>																			
May 1	...	11	7	43.41	...	68	49	7.2	R										
6	...		7	43.49	...		49	7.9	R										
<b>318</b> <i>12 Crateris δ</i>																			
May 5	...	11	18	20.49	...	104	7	43.1	R										
7	...		18	20.45	...		7	44.6	R										
<b>319</b> <i>84 Leonis τ</i>																			
May 4	...	11	21	45.95	...	86	28	58.8	R										
5	...		21	45.98	...		28	57.1	R										
6	...		21	45.98	...		28	57.6	R										
8	...		21	45.92	...		28	57.3	R										
10	...		21	45.99	...		28	58.2	R										

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>320</b> <i>91 Leonis v</i>										<b>326</b> <i>Anon.</i>									
May 11	...	11	30	49.25	...	90	9	39.8	R	May 13	8.5	12	11	15.19	...	188	15	24.9	R
12	...		30	48.32	...		9	40.0	R	14	8.8		11	16.23	...		15	25.1	R
15	...		30	48.29	...		9	40.9	R	15	8.5		11	15.20	...		15	25.7	R
<b>321</b> <i>94 Leonis β, Deneb.</i>										17 8.8      11 15.08      ...      15 25.8      R									
May 8	...	11	42	56.25	...	74	45	24.2	R	18	8.6		11	15.11	...		15	25.6	R
10	...		42	56.29	...		45	24.6	R	<b>327</b> <i>15 Virginis η</i>									
13	...		42	56.25	...		45	24.5	R	May 5	...	12	13	45.90	...	89	59	58.2	R
<b>322</b> <i>8 Virginis π</i>										19      ...      13 45.98      ...      59 58.7      R									
May 6	...	11	54	43.58	...	82	42	56.4	R	20	...		13	45.96	...		59	58.0	R
8	...		54	43.39	...		42	56.3	R	22	...		13	45.99	...		59	58.9	R
11	...		54	43.38	...		42	56.5	R	<b>328</b> <i>R. P. L. 93—s.p.</i>									
13	...		54	43.39	...		42	57.0	R	Oct. 14	...	12	14	21.76	2	1	38	7.4	M
14	...		54	43.36	...		42	56.7	R	25	...		14	21.30	2		38	5.5	M
17	...		54	43.42	...		42	58.0	R	29	...		14	21.74	3		38	7.4	M
<b>323</b> <i>R. P. L. 89.</i>										Dec. 14      ...      14 17.97      3      38 5.7      M									
May 10	...	11	58	41.49	3	3	44	55.6	R	15	...		14	18.56	3		38	7.1	M
<i>R. P. L. 89—s.p.</i>										<b>329</b> <i>7 Corvi δ</i>									
Nov. 9	...	11	58	40.90	3	3	44	54.6	R	May 10	...	12	23	39.44	...	105	50	49.5	R
13	...		58	43.41	3		44	52.8	R	11	...		23	39.45	...		50	49.4	R
24	...		58	41.18	3		44	52.4	R	12	...		23	39.50	...		50	48.8	R
Dec. 3	...		58	41.37	3		44	53.1	R	15	...		23	39.40	...		50	50.7	R
<b>324</b> <i>2 Corvi ε</i>										17      ...      23 39.54      ...      50 51.4      R									
May 12	...	12	3	57.31	...	111	57	7.0	R	20	...		23	39.50	...		50	48.9	R
14	...		3	57.30	...		57	6.6	R	24	...		23	39.49	...		50	49.5	R
18	...		3	57.31	...		57	7.9	R	<b>330</b> <i>Anon.</i>									
19	...		3	57.30	...		57	8.0	R	May 1	9.2	12	28	0.59	...	93	47	1.5	R
<b>325</b> <i>Lalande 22945.</i>										4      9.2      28 0.62      ...      47 0.2      R									
May 1	8.0	12	8	51.47	...	90	39	33.1	R	5	9.4		28	0.80	...		47	0.3	R
4	8.0		8	51.31	...		39	33.6	R	6	9.2		28	0.77	...		47	1.0	R
5	8.2		8	51.46	...		39	32.0	R	7	9.3		28	0.71	...		47	0.9	R
6	8.0		8	51.43	...		39	32.2	R	<b>331</b> <i>9 Corvi β</i>									
8	8.5		8	51.52	5		39	31.6	R	May 13	...	12	28	5.04	...	112	43	58.2	R
										14      ...      28 5.08      ...      43 57.0      R									
										18      ...      28 5.07      ...      43 57.5      R									
										22      ...      28 5.01      ...      43 57.4      R									
										25      ...      28 5.01      ...      43 58.1      R									

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>332</b> <i>R. P. L. 99—s.p.</i>										<b>340</b> <i>η Muscæ.</i>									
Dec. 7	...	12	48	15.77	3	5	56	4.9	R	May 10	5.8	13	7	8.39	...	157	15	30.8	R
<b>333</b> <i>43 Virginis δ</i>										12 5.5 7 8.24 ... 15 28.1 R									
May 17	...	12	49	38.56	...	85	57	0.1	R	15 5.5 7 8.28 ... 15 30.7 R									
22	...	49	38.50	...	56	59.3	...	R	18 5.2 7 8.34 ... 15 31.4 R										
24	...	49	38.53	...	56	59.0	...	R	20 5.1 7 8.37 ... 15 28.7 R										
27	...	49	38.61	...	56	58.3	...	R	<b>341</b> <i>67 Virginis α, Spica.</i>										
<b>334</b> <i>Lacaille 5335.</i>										May 1 ... 13 18 52.29 ... 100 32 3.7 R									
May 18	10.3	12	51	38.60	4	160	11	16.0	R	4 ... 18 52.24 ... 32 3.3 R									
20	10.3	51	38.40	3	11	15.4	...	R	<b>342</b> <i>R. P. L. 103.</i>										
<b>335</b> <i>47 Virginis ε, Vindemiatrix.</i>										May 6 ... 13 10 31.17 3 4 37 8.1 R									
May 15	...	12	56	12.19	...	78	23	42.2	R	<b>343</b> <i>79 Virginis ζ</i>									
19	...	56	12.18	...	28	42.0	...	R	May 6 ... 13 28 34.78 ... 89 58 53.8 R										
25	...	56	12.26	...	28	42.6	...	R	7 ... 28 34.76 ... 58 54.2 R										
<b>336</b> <i>51 Virginis θ</i>										18 ... 28 34.76 ... 58 54.4 R									
May 24	...	13	3	44.29	...	94	53	51.4	R	<b>344</b> <i>4 Bootis τ</i>									
27	...	3	44.28	...	53	51.5	...	R	May 10 ... 13 41 33.56 ... 71 56 39.8 R										
<b>337</b> <i>42 Comæ α</i>										12 ... 41 33.54 ... 56 40.2 R									
May 1	...	13	4	8.91	5	71	50	7.4	R	14 ... 41 33.49 ... 56 39.6 R									
4	...	4	8.92	...	50	7.8	...	R	17 ... 41 33.63 ... 56 41.0 R										
6	...	4	9.00	...	50	7.2	...	R	20 ... 41 33.61 ... 56 39.5 R										
<b>338</b> <i>Taylor 6057.</i>										25 ... 41 33.58 ... 56 39.4 R									
May 7	5.6	13	4	48.57	...	149	16	53.4	R	<b>345</b> <i>93 Virginis τ</i>									
11	5.6	4	48.82	...	16	53.9	...	R	May 15 ... 13 55 32.48 ... 87 52 27.7 R										
13	5.6	4	48.92	...	16	53.4	...	R	22 ... 55 32.39 ... 52 25.0 R										
<b>339</b> <i>53 Virginis.</i>										27 ... 55 32.34 ... 52 27.5 R									
May 5	5.3	13	5	40.39	...	105	33	1.3	R	<b>346</b> <i>11 Draconis α</i>									
8	...	5	40.29	5	33	0.8	...	R	May 11 ... 14 1 8.30 ... 25 2 59.6 R										
14	5.3	5	40.54	...	88	0.2	...	R	12 ... 1 8.29 ... 2 59.0 R										
17	5.2	5	40.40	...	88	0.0	...	R	13 ... 1 8.22 ... 2 59.3 R										
19	5.2	5	40.35	...	82	59.7	...	R	17 ... 1 8.24 ... 3 0.5 R										
										20 ... 1 8.12 ... 2 59.5 R									

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"								
<b>347</b> R. P. L. 108.										<b>354</b> $\gamma$ <i>Libra</i> $\alpha^2$																
May 19	...	14	1	49.26	3	3	40	3.5	R	May 25	...	14	44	14.47	...	105	32	31.1	R							
R. P. L. 108.—s.p.										May 29	...	44	14.54	...	...	32	31.7	R	June 1	...	44	14.44	...	32	31.1	R
Nov. 19	...	14	1	50.14	3	3	40	5.6	R	<b>355</b> $\delta$ <i>Bootis</i> $\psi$																
<b>348</b> $\delta$ <i>Bootis</i> $f$ .										May 28	...	14	59	18.15	...	62	35	0.9	R							
May 10	...	14	20	52.54	...	70	13	56.7	R	May 29	...	59	18.21	...	35	1.6	R									
11	...	20	52.61	...	13	57.3	R	June 1	...	59	18.26	...	35	1.2	R											
12	...	20	52.50	...	13	56.9	R	2	...	59	18.21	...	35	0.7	R											
13	...	20	52.55	...	13	56.7	R	7	...	59	18.26	...	35	0.5	R											
18	...	20	52.51	...	13	57.7	R	28	...	59	18.29	...	35	1.9	R											
20	...	20	52.53	...	13	57.9	R	July 5	...	59	18.33	...	35	0.6	M											
24	...	20	52.57	...	14	0.4	R	<b>356</b> O. A. S. 14246.																		
<b>349</b> $\epsilon$ <i>Bootis</i> $\epsilon$ , <i>Mirac</i> .										May 10	7.0	14	59	31.80	...	111	33	47.1	R							
May 27	...	14	39	44.78	...	62	25	7.4	R	12	7.3	59	31.76	...	33	46.7	R									
28	...	39	44.83	...	25	7.9	R	14	7.1	59	31.74	...	33	45.6	R											
June 1	...	39	44.80	...	25	6.6	R	19	7.0	59	31.78	...	33	48.4	R											
3	...	39	44.73	...	25	8.4	R	22	8.2	59	31.57	...	33	48.0	R											
28	...	39	44.73	...	25	7.4	R	<b>357</b> <i>Anon.</i>																		
<b>350</b> 109 <i>Virginis</i> .										May 11	9.0	14	59	31.83	...	111	23	13.1	R							
May 12	...	14	40	11.03	...	87	36	0.0	R	13	9.2	59	31.95	...	23	12.4	R									
19	...	40	10.86	...	36	0.9	R	18	9.2	59	31.94	...	23	12.6	R											
22	...	40	10.87	...	36	1.1	R	20	9.4	59	31.93	...	23	10.6	R											
<b>351</b> 55 <i>Hydrae</i> .										24	9.4	59	31.78	...	23	12.5	R									
May 10	5.6	14	40	23.93	...	115	7	8.4	R	<b>358</b> <i>Taylor</i> 7053.																
13	5.6	40	24.17	...	7	9.1	R	May 15	...	15	2	20.00	...	144	53	14.3	R									
17	5.7	40	24.04	...	7	10.1	R	<b>359</b> $\kappa$ <i>Lupi</i> —1st.																		
<b>352</b> 56 <i>Hydrae</i> .										May 17	...	15	3	36.08	...	138	16	48.3	R							
May 11	...	14	40	44.64	...	115	35	0.8	R	<b>360</b> R. P. L. 111—s.p.																
14	...	40	44.57	...	35	0.4	R	Dec. 22	...	15	3	53.88	3	5	35	7.4	R									
<b>353</b> 57 <i>Hydrae</i> .										27	...	3	53.84	3	35	6.3	R									
May 15	...	14	40	56.63	...	116	8	30.5	R	29	...	3	53.18	3	35	9.8	R									
18	...	40	56.53	...	8	30.4	R																			
20	...	40	56.53	...	8	29.4	R																			
24	...	40	56.57	...	8	31.4	R																			

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
<b>361</b> $\mu$ Lupi—1st.										<b>367</b> 5 Coronæ Bor. $\alpha$ , Alpheta.										
May 12	5.0	15	10	11.50	...	187	25	58.7	R	June 13	...	15	29	36.38	...	03	52	46.5	R	
13	5.1	10	11.51	...		25	52.0	R	July 5	...		29	36.36	...		52	47.4	M		
										15	...		29	36.39	...		52	40.4	M	
										23	...		29	36.43	...		52	48.1	M	
<b>362</b> 27 Libræ $\beta$										<b>368</b> $\iota$ Lupi.										
June 2	...	15	10	32.99	...	98	56	21.0	R	June 2	5.0	15	29	58.29	...	182	10	10.9	R	
8	...		10	32.98	...		56	20.8	R	3	...		29	58.21	4		10	18.8	R	
4	...		10	32.98	...		56	20.5	R	4	5.0		29	58.32	...		10	17.7	R	
5	...		10	32.96	...		56	21.0	R	5	5.0		29	58.30	...		10	18.3	R	
7	...		10	33.01	...		56	20.4	R	7	5.3		29	58.40	...		10	18.8	R	
8	...		10	33.06	...		56	18.7	R											
17	...		10	33.00	...		56	19.5	R											
28	...		10	33.00	...		56	21.1	R											
July 5	...		10	33.01	...		56	18.6	M											
23	...		10	33.14	...		56	20.2	M											
<b>363</b> $\nu^1$ Lupi.										<b>369</b> 42 Libræ.										
May 17	...	15	13	47.41	...	137	29	20.8	R	May 24	5.8	15	33	11.30	...	113	25	36.5	R	
										27	5.7		33	11.27	...		25	36.5	R	
										28	5.6		33	11.36	...		25	36.8	R	
<b>364</b> $\phi^1$ Lupi.										<b>370</b> $h$ Lupi.										
May 18	...	15	14	11.69	...	125	49	28.6	R	May 25	5.6	15	34	50.54	...	127	2	17.2	R	
19	...		14	11.68	...		49	28.1	R	June 2	5.6		34	50.55	...		2	17.7	R	
20	...		14	11.68	...		49	27.8	R	4	5.6		34	50.84	...		2	17.6	R	
<b>365</b> S Libræ, Var. 5.										<b>371</b> $\xi$ Coronæ Borealis—2nd.										
May 25	10.0	15	14	30.70	...	109	57	14.4	R	May 29	...	15	34	51.51	...	52	58	26.2	R	
27	10.0		14	30.64	...		57	16.2	R											
28	10.0		14	30.77	...		57	15.0	R											
29	10.0		14	30.82	...		57	15.2	R											
<b>366</b> O. A. S. 14617.										<b>372</b> 15 Ursæ Minoris $\theta$										
June 9	9.6	15	24	57.57	...	119	47	4.7	R	June 17	...	15	34	59.98	...	12	15	4.6	R	
17	9.5		24	57.65	...		47	3.7	R	18	...		34	59.98	...		15	5.9	R	
18	9.5		24	57.46	3		47	3.5	R	19	...		34	59.78	...		15	4.6	R	
19	9.5		24	57.64	...		47	2.7	R											
July 20	...		24	57.50	...		47	2.8	M											
<b>373</b> $\psi^2$ Lupi.										<b>373</b> $\psi^2$ Lupi.										
June 1	5.6	15	35	2.45	...	124	19	24.2	R	June 1	5.6	15	35	2.45	...	124	19	24.2	R	
3	...		35	2.46	...		19	25.4	R	3	...		35	2.46	...		19	25.4	R	
5	5.6		35	2.40	...		19	24.3	R	5	5.6		35	2.40	...		19	24.3	R	
7	...		35	2.39	...		19	24.7	R	7	...		35	2.39	...		19	24.7	R	
8	5.6		35	2.38	...		19	24.8	R	8	5.6		35	2.38	...		19	24.8	R	

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.						
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"							
<b>374</b> <i>24 Serpentis a</i>									<b>379</b> <i>Anon.</i>																
May 28	...	15	38	21.44	...	83	11	43.9	R	June 4	9.0	15	53	17.80	...	150	8	55.6	R						
June 9	...	38	21.42	...	...	11	44.3	R	5	9.1	53	17.82	...	...	8	56.7	R								
July 10	...	38	21.47	...	...	11	44.6	M	7	...	53	17.87	4	...	8	56.8	R								
17	...	38	21.40	...	...	11	43.3	M	17	9.2	53	17.65	...	...	8	54.8	R								
20	...	38	21.30	...	...	11	43.8	M	<b>380</b> <i>η Normæ.</i>																
<b>375</b> <i>κ Trianguli Australis.</i>									May 28	5.6	15	54	24.16	...	138	53	34.6	R							
May 25	5.2	15	43	39.31	...	158	14	35.8	R	29	5.6	24	24.18	...	53	34.4	R								
27	5.2	43	39.40	...	...	14	35.8	R	<b>381</b> <i>δ Normæ.</i>																
28	5.0	43	39.29	...	...	14	34.9	R	June 1	...	15	58	1.04	...	134	50	44.9	R							
<b>376</b> <i>37 Serpentis ε</i>									<b>382</b> <i>8 Scorpii β<sup>1</sup></i>																
May 29	...	15	44	50.07	...	85	9	34.8	R	July 29	...	15	58	27.56	...	109	28	29.6	R						
June 2	...	44	50.09	...	...	9	34.4	R	30	...	58	27.49	...	...	28	29.7	M								
5	...	44	50.06	...	...	9	33.8	R	<b>383</b> <i>8 Scorpii β--2nd.</i>																
7	...	44	50.11	...	...	9	34.9	R	June 4	5.6	15	58	27.93	...	109	28	16.7	R							
8	...	44	50.03	...	...	9	35.8	R	July 5	...	58	28.08	...	...	28	18.2	M								
9	...	44	50.05	...	...	9	35.0	R	10	...	58	28.13	...	...	28	17.6	M								
18	...	44	50.08	...	...	9	34.3	R	23	...	58	28.15	...	...	28	18.8	M								
19	...	44	50.11	...	...	9	33.4	R	28	5.6	58	28.14	...	...	28	16.8	R								
July 10	...	44	50.14	...	...	9	32.9	M	<b>384</b> <i>6 Herculis v</i>																
15	...	44	50.10	...	...	9	34.0	M	June 3	...	15	59	3.35	...	43	37	45.0	R							
20	...	44	50.08	...	...	9	34.4	M	5	...	59	3.31	...	...	37	44.6	R								
27	...	44	50.08	...	...	9	34.2	R	7	...	59	3.36	...	...	37	46.1	R								
28	...	44	50.05	...	...	9	34.2	R	<b>385</b> <i>ι<sup>2</sup> Normæ.</i>																
<b>377</b> <i>R. P. L. 115.</i>									May 29	5.6	15	59	27.57	...	147	36	34.4	R							
June 4	...	15	45	53.26	3	4	46	51.2	R	June 2	5.6	59	27.60	...	36	33.7	R								
17	...	45	52.99	3	...	46	50.8	R	9	5.8	59	27.30	...	36	32.9	R									
<b>378</b> <i>Radeliffe 3468.</i>									17	5.7	59	27.41	...	36	30.8	R	<b>386</b> <i>m Scorpii.</i>								
May 27	5.2	15	49	28.83	...	33	49	4.5	R	June 18	...	16	0	48.92	...	116	0	11.8	R						
28	5.1	49	28.82	...	...	49	6.0	R	19	...	0	48.95	...	...	0	11.0	R								
29	5.1	49	28.83	...	...	49	7.3	R	July 16	...	0	48.87	...	...	0	13.3	M								
June 1	5.5	49	28.96	...	...	49	7.2	R																	
2	5.4	49	28.91	...	...	49	7.9	R																	

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>387</b> $\zeta$ Normæ.										<b>395</b> 18 Scorpii.									
May 28	5.7	16	3	49.39	...	145	13	38.4	R	May 28	...	16	9	6.03	...	98	3	1.4	R
June 5	5.7		3	49.72	...		13	35.3	R	<b>396</b> R Scorpii, Var. 1.									
<b>388</b> $\kappa$ Normæ.										June 4	9.8	16	10	29.74	...	112	38	44.7	R
June 1	...	16	4	1.46	...	144	19	2.9	R	5	9.9		10	29.86	4		38	45.2	R
July 27	...		4	1.28	...		19	3.6	R	8	9.9		10	29.81	...		38	45.5	R
Aug. 9	...		4	1.28	...		19	5.3	M	<b>397</b> S Scorpii, Var. 2.									
10	...		4	1.22	...		19	3.5	M	June 17	10.7	16	10	31.54	3	112	35	42.4	R
11	...		4	1.38	...		19	5.1	M	<b>398</b> d Scorpii.									
<b>389</b> $\delta$ Trianguli Australis.										July 5	...	16	10	51.51	...	118	18	50.0	M
July 28	...	16	4	31.74	...	153	22	36.6	R	30	...		10	51.58	...		18	48.9	M
<b>390</b> 11 Herculis $\phi$										Aug. 10	...		10	51.68	...		18	49.2	M
May 27	...	16	4	59.20	...	44	44	56.7	R	11	...		10	51.62	...		18	49.8	M
June 2	...		4	59.13	...		44	59.1	R	<b>399</b> $\gamma^2$ Normæ.									
7	...		4	59.08	...		44	59.1	R	Aug. 24	...	16	10	51.96	...	139	51	33.0	M
8	...		4	59.06	...		44	57.9	R	<b>400</b> W. B. E. XVI. 197.									
17	...		4	59.13	...		44	58.4	R	June 19	9.0	16	12	7.61	...	101	12	42.3	R
<b>391</b> Radcliffe 3511.										July 28	9.2		12	7.53	...		12	43.8	R
July 29	...	16	5	59.61	...	21	52	23.1	R	<b>401</b> 19 Scorpii.									
31	...		5	59.52	...		52	21.9	M	June 2	...	16	13	25.07	...	113	52	42.1	R
<b>392</b> $\theta$ Normæ.										July 10	...		13	25.07	...		52	40.3	M
May 29	5.6	16	6	32.99	...	137	3	52.5	R	29	...		13	24.92	...		52	41.9	R
June 19	5.5		6	32.90	...		3	48.9	R	<b>402</b> 19 Ursæ Minoris.									
Aug. 7	...		6	32.99	5		3	50.9	M	June 7	...	16	14	15.81	...	13	49	15.2	R
14	...		6	32.91	...		3	51.7	M	<b>403</b> Radcliffe 3534.									
<b>393</b> $\gamma^1$ Normæ.										June 9	...	16	15	15.22	...	29	57	10.9	R
July 16	...	16	8	2.13	...	139	45	58.9	M	July 16	...		15	15.06	5		57	15.0	M
Aug. 19	...		8	2.13	6		45	56.6	M	Aug. 9	...		15	15.26	6		57	10.8	M
<b>394</b> 1 Ophiuchi $\delta$										14	...		15	15.21	...		57	11.4	M
June 3	...	16	8	3.41	...	93	22	59.3	R										
July 20	...		8	3.52	...		23	2.8	M										
27	...		8	3.34	...		23	2.4	R										
Aug. 3	...		8	3.48	...		23	59.9	M										



## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
<b>387</b> $\zeta$ Normæ.										<b>395</b> 18 Scorpii.										
May 28	5.7	16	3	49.89	...	145	13	88.4	R	May 28	...	16	9	6.03	...	98	3	1.4	R	
June 5	5.7		3	49.72	...		13	85.3	R	<b>396</b> R Scorpii, Var. 1.										
<b>388</b> $\kappa$ Normæ.										June 4	9.8	16	10	29.74	...	112	38	44.7	R	
June 1	...	16	4	1.46	...	144	19	2.9	R	5	9.9		10	29.86	4		38	45.2	R	
July 27	...		4	1.28	...		19	3.6	R	8	9.9		10	29.81	...		38	45.5	R	
Aug. 9	...		4	1.28	...		19	5.8	M	<b>397</b> S Scorpii, Var. 2.										
10	...		4	1.22	...		19	3.5	M	June 17	10.7	16	10	31.54	3	112	35	42.4	R	
11	...		4	1.38	...		19	5.1	M	<b>398</b> d Scorpii.										
<b>389</b> $\delta$ Trianguli Australis.										July 5	...	16	10	51.51	...	118	18	50.0	M	
July 28	...	16	4	31.74	...	153	22	36.6	R	30	...		10	51.58	...		18	48.9	M	
<b>390</b> 11 Herculis $\phi$										Aug. 10	...		10	51.68	...			18	49.2	M
May 27	...	16	4	59.20	...	44	44	56.7	R	11	...		10	51.62	...		18	49.8	M	
June 2	...		4	59.18	...		44	59.1	R	<b>399</b> $\gamma^2$ Normæ.										
7	...		4	59.08	...		44	59.1	R	Aug. 24	...	16	10	51.96	...	139	51	33.0	M	
8	...		4	59.06	...		44	57.9	R	<b>400</b> W. B. E. XVI. 197.										
17	...		4	59.13	...		44	58.4	R	June 19	9.0	16	12	7.61	...	101	12	42.3	R	
<b>391</b> Radcliffe 3511.										July 28	9.2		12	7.53	...			12	43.8	R
July 29	...	16	5	59.61	...	21	52	23.1	R	<b>401</b> 19 Scorpii.										
31	...		5	59.52	...		52	21.9	M	June 2	...	16	13	25.07	...	113	52	42.1	R	
<b>392</b> $\theta$ Normæ.										July 10	...		13	25.07	...			52	40.3	M
May 29	5.6	16	6	32.99	...	137	3	52.5	R	29	...		13	24.92	...		52	41.9	R	
June 19	5.5		6	32.90	...		3	48.9	R	<b>402</b> 19 Ursæ Minoris.										
Aug. 7	...		6	32.99	5		3	50.9	M	June 7	...	16	14	15.81	...	13	40	15.2	R	
14	...		6	32.91	...		3	51.7	M	<b>403</b> Radcliffe 3534.										
<b>393</b> $\gamma^1$ Normæ.										June 9	...	16	15	15.22	...	29	57	10.9	R	
July 16	...	16	8	2.12	...	139	45	58.9	M	July 16	...		15	15.06	5		57	15.0	M	
Aug. 19	...		8	2.13	6		45	56.6	M	Aug. 9	...		15	15.26	6		57	10.8	M	
<b>394</b> 1 Ophiuchi $\delta$										14	...		15	15.21	...		57	11.4	M	
June 3	...	16	8	3.41	...	93	22	59.3	R											
July 20	...		8	3.52	...		28	2.8	M											
27	...		8	3.34	...		28	2.4	R											
Aug. 3	...		8	3.48	...		22	59.9	M											

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>404</b>		<i>50 Serpentis</i> $\sigma$								<b>413</b>		<i>25 Herculis.</i>							
May 20	...	16	15	59.84	...	88	41	15.4	R	June 17	...	16	21	7.62	...	52	19	53.0	R
										19	...				...				R
<b>405</b>		<i>O. A. S. 15571.</i>								July 10	...				...				M
June 1	7.6	16	16	0.75	...	106	44	6.2	R	31	...				...				M
<b>406</b>		<i>22 Herculis</i> $\tau$								<b>414</b>		<i>B. F. 2255.</i>							
June 3	...	16	16	7.97	...	43	23	59.4	R	May 20	...	16	21	15.46	...	97	19	20.3	R
5	...				...				R	June 1	...				...				R
18	...				...				R	5	...				...				R
Aug. 18	...				...				M	8	...				...				R
20	...				4				M	9	...				...				R
<b>407</b>		<i>20 Herculis</i> $\gamma$								<b>415</b>		<i>21 Scorpii a, Antares.</i>							
June 4	...	16	16	37.57	...	70	33	49.9	R	June 16	...	16	22	3.11	...	116	9	50.2	R
										July 15	...				...				M
										20	...				...				R
<b>408</b>		<i>19 Coronæ Borealis</i> $\xi$								<b>416</b>		<i>20 Herculis</i> $h$ .							
July 27	...	16	17	25.29	...	58	49	43.1	R	June 7	...	16	26	59.37	...	78	15	10.8	R
28	...				...				R	8	...				...				R
										9	...				...				R
<b>409</b>		<i>20 Coronæ Borealis</i> $\nu^1$								<b>417</b>		<i>15 Draconis</i> $\Lambda$ .							
May 28	...	16	17	50.27	...	55	55	3.4	R	May 28	...	16	28	13.21	...	20	58	18.7	R
July 30	...				...				M	29	...				...				R
Aug. 10	...				...				M	June 4	...				...				R
23	...				4				M	17	...				...				R
										28	...				...				R
<b>410</b>		<i>21 Coronæ Borealis</i> $\nu^2$								<b>418</b>		<i><math>\beta</math> Normæ.</i>							
Aug. 7	...	16	17	57.62	...	56	0	59.7	M	June 1	...	16	28	28.83	...	125	0	25.0	R
										2	...				...				R
<b>411</b>		<i><math>\epsilon</math> Normæ.</i>								3	...				...				R
Aug. 11	...	16	18	23.34	...	137	16	46.6	M										
19	...				...				M	<b>419</b>		<i><math>\eta^1</math> Trianguli Australis.</i>							
										Aug. 9	...	16	29	1.59	6	158	3	15.2	M
<b>412</b>		<i>24 Herculis</i> $\omega$								11	...				...				M
June 2	...	16	19	52.59	...	75	41	22.1	R	19	...				...				M

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>387</b> $\zeta$ Normæ.										<b>395</b> 18 Scorpii.									
May 28	5·7	16	3	49·89	...	145	13	38·4	R	May 28	...	16	9	6·03	...	93	3	1·4	R
June 5	5·7		3	49·72	...			13 35·8	R	<b>396</b> R Scorpii, Var. 1.									
<b>388</b> $\kappa$ Normæ.										June 4	9·8	16	10	29·74	...	112	38	44·7	R
June 1	...	16	4	1·46	...	144	19	2·9	R	5	9·9		10	29·86	4		38 45·2	R	
July 27	...		4	1·23	...			19 3·6	R	8	9·9		10	29·81	...		38 45·5	R	
Aug. 9	...		4	1·23	...			19 5·8	M	<b>397</b> S Scorpii, Var. 2.									
10	...		4	1·22	...			19 3·5	M	June 17	10·7	16	10	31·54	3	112	35	42·4	R
11	...		4	1·33	...			19 5·1	M	<b>398</b> d Scorpii.									
<b>389</b> $\delta$ Trianguli Australis.										July 5	...	16	10	51·51	...	118	18	50·0	M
July 28	...	16	4	31·74	...	153	22	36·6	R	30	...		10	51·58	...		18 48·9	M	
<b>390</b> 11 Herculis $\phi$										Aug. 10	...		10	51·68	...		18 49·2	M	
May 27	...	16	4	59·20	...	44	44	56·7	R	11	...		10	51·62	...		18 49·8	M	
June 2	...		4	59·13	...			44 59·1	R	<b>399</b> $\gamma^2$ Normæ.									
7	...		4	59·08	...			44 59·1	R	Aug. 24	...	16	10	51·96	...	139	51	33·0	M
8	...		4	59·06	...			44 57·9	R	<b>400</b> W. B. E. XVI. 197.									
17	...		4	59·13	...			44 58·4	R	June 19	9·0	16	12	7·61	...	101	12	42·3	R
<b>391</b> Radcliffe 3511.										July 28	9·2		12	7·53	...		12 43·8	R	
July 29	...	16	5	59·61	...	21	52	23·1	R	<b>401</b> 19 Scorpii.									
31	...		5	59·52	...			52 21·9	M	June 2	...	16	13	25·07	...	113	52	42·1	R
<b>392</b> $\theta$ Normæ.										July 10	...		13	25·07	...		52 40·3	M	
May 29	5·6	16	6	32·99	...	137	3	52·5	R	29	...		13	24·92	...		52 41·9	R	
June 19	5·5		6	32·90	...			3 48·9	R	<b>402</b> 19 Ursæ Minoris.									
Aug. 7	...		6	32·99	5			3 50·9	M	June 7	...	16	14	15·81	...	13	40	15·2	R
14	...		6	32·91	...			3 51·7	M	<b>403</b> Radcliffe 3534.									
<b>393</b> $\gamma^1$ Normæ.										June 9	...	16	15	15·22	...	29	57	10·9	R
July 16	...	16	8	2·12	...	139	45	58·9	M	July 16	...		15	15·06	5		57 15·0	M	
Aug. 19	...		8	2·13	6			45 56·6	M	Aug. 9	...		15	15·26	6		57 10·8	M	
<b>394</b> 1 Ophiuchi $\delta$										14	...		15	15·21	...		57 11·4	M	
June 3	...	16	8	3·41	...	93	22	59·3	R										
July 20	...		8	3·52	...			23 2·8	M										
27	...		8	3·34	...			23 2·4	R										
Aug. 3	...		8	3·43	...			23 59·9	M										

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>404</b>		<i>50 Serpentis <math>\sigma</math></i>								<b>413</b>		<i>25 Herculis.</i>							
May 29	...	16	15	59.84	...	88	41	15.4	R	June 17	...	16	21	7.62	...	52	19	53.0	R
										19	...	21	7.67	...		19	52.7	R	
<b>405</b>		<i>O. A. S. 15571.</i>								July 10	...	21	7.51	...		19	52.2	M	
June 1	7.6	16	16	0.75	...	106	44	6.2	R	31	...	21	7.51	...		19	54.2	M	
<b>406</b>		<i>22 Herculis <math>\tau</math></i>								<b>414</b>		<i>B. F. 2255.</i>							
June 3	...	16	16	7.97	...	43	23	59.4	R	May 29	...	16	21	15.46	...	97	19	20.3	R
5	...	16	8.01	...		21	0.2	R	June 1	...	21	15.43	...		19	20.2	R		
18	...	16	7.95	...		24	0.1	R	5	...	21	15.37	...		19	19.6	R		
Aug. 18	...	16	8.19	...		23	58.3	M	8	...	21	15.38	...		19	19.8	R		
20	...	16	8.14	4		23	59.5	M	9	...	21	15.37	...		19	19.3	R		
<b>407</b>		<i>20 Herculis <math>\gamma</math></i>								<b>415</b>		<i>21 Scorpii a, Antares.</i>							
June 4	...	16	16	37.57	...	70	33	49.9	R	June 16	...	16	22	3.11	...	116	9	50.2	R
										July 15	...	22	3.08	...		9	52.4	M	
<b>408</b>		<i>19 Coronæ Borealis <math>\xi</math></i>								29	...	22	3.08	...		9	50.0	R	
July 27	...	16	17	25.20	...	58	49	43.1	R	<b>416</b>		<i>29 Herculis h.</i>							
28	...	17	25.17	...		49	43.9	R	June 7	...	16	26	59.37	...	78	15	10.8	R	
<b>409</b>		<i>20 Coronæ Borealis <math>\nu^1</math></i>								8	...	26	59.33	...		15	10.9	R	
May 28	...	16	17	50.27	...	55	55	3.4	R	9	...	26	59.41	...		15	11.8	R	
July 30	...	17	50.20	...		55	4.5	M	<b>417</b>		<i>15 Draconis A.</i>								
Aug. 10	...	17	50.40	...		55	2.3	M	May 28	...	16	28	13.21	...	20	58	18.7	R	
23	...	17	50.29	4		55	2.2	M	29	...	28	13.12	...		58	19.8	R		
<b>410</b>		<i>21 Coronæ Borealis <math>\nu^2</math></i>								June 4	...	28	13.09	...		58	21.4	R	
Aug. 7	...	16	17	57.62	...	56	0	59.7	M	17	...	28	13.12	...		58	18.3	R	
<b>411</b>		<i><math>\epsilon</math> Normæ.</i>								28	...	28	13.15	...		58	19.2	R	
Aug. 11	...	16	18	23.34	...	137	16	46.6	M	<b>418</b>		<i><math>\beta</math> Normæ.</i>							
19	...	18	23.35	...		16	42.2	M	June 1	...	16	28	28.83	...	125	0	25.0	R	
<b>412</b>		<i>24 Herculis <math>\omega</math></i>								2	...	28	28.76	...		0	24.1	R	
June 2	...	16	19	52.59	...	75	41	22.1	R	3	...	28	28.76	...		0	23.3	R	
										<b>419</b>		<i><math>\eta^1</math> Trianguli Australis.</i>							
										Aug. 9	...	16	29	1.59	6	158	3	15.2	M
										11	...	29	1.53	...		3	14.2	M	
										19	...	29	1.58	...		3	14.2	M	

*Separate Results of Madras Meridian Circle Observations in 1880.*

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
<b>420</b> <i>13 Ophiuchi ζ</i>						<b>426</b> <i>Taylor 7804.</i>					
June 5	...	16 30 33.12	...	100 19 20.3	R	June 4	7.0	16 45 44.62	...	131 37 26.3	R
18	...	30 33.15	...	19 20.5	R	7	...	45 44.70	4	37 26.9	R
19	...	30 33.07	...	19 19.8	R	9	7.2	45 44.66	...	37 25.3	R
July 16	...	30 33.06	...	19 21.6	M	<b>427</b> <i>Taylor 7805.</i>					
17	...	30 33.06	...	19 21.0	M	June 5	7.0	16 45 46.26	...	131 38 49.4	R
27	...	30 33.11	...	19 20.3	R	16	7.0	45 46.30	...	38 52.3	R
28	...	30 33.10	...	19 20.9	R	18	...	45 46.34	...	38 52.2	R
30	...	30 33.14	...	19 20.9	M	<b>428</b> <i>Taylor 7806.</i>					
Aug. 8	...	30 33.14	...	19 20.1	M	June 8	8.0	16 45 54.43	...	131 37 9.5	R
7	...	30 33.13	...	19 21.2	M	17	8.0	45 54.58	...	37 8.0	R
18	...	30 33.11	...	19 20.3	M	July 16	...	45 54.51	...	37 9.9	M
20	...	30 33.07	...	19 20.5	M	28	8.0	45 54.51	...	37 8.5	R
<b>421</b> <i>40 Hercules ζ</i>						29	...	45 54.49	...	37 9.8	R
June 16	...	16 36 45.74	...	58 10 43.3	R	<b>429</b> <i>50 Hercules.</i>					
17	...	36 45.76	...	10 43.4	R	June 28	...	16 45 57.86	...	59 59 15.9	R
July 10	...	36 45.70	...	10 41.9	M	July 10	...	45 57.65	...	59 13.9	M
28	...	36 45.67	...	10 44.9	M	17	...	45 57.88	...	59 15.0	M
Aug. 18	...	36 45.91	...	10 41.4	M	31	...	45 57.69	...	59 15.8	M
<b>422</b> <i>43 Hercules i.</i>						Aug. 9	...	45 57.67	...	59 17.0	M
May 28	...	16 40 4.21	...	81 11 51.2	R	<b>430</b> <i>Taylor 7807.</i>					
29	...	40 4.22	...	11 51.7	R	May 29	5.6	16 45 58.62	...	132 16 42.0	R
<b>423</b> <i>18 Draconis g.</i>						June 1	5.6	45 58.54	...	16 41.0	R
June 4	...	16 40 5.25	...	25 10 59.3	R	19	5.5	45 58.44	...	16 41.4	R
5	...	40 5.26	...	10 59.4	R	Aug. 3	...	45 58.58	4	16 43.0	M
7	...	40 5.11	...	11 0.4	R	10	...	45 58.47	...	16 41.9	M
8	...	40 5.34	...	11 0.6	R	14	...	45 58.54	...	16 41.4	M
9	...	40 5.32	...	11 2.2	R	<b>431</b> <i>Lacaille 6989.</i>					
<b>424</b> <i>Radcliffe 3602.</i>						May 28	...	16 46 42.07	...	159 4 33.3	R
June 8	...	16 43 1.00	...	33 0 10.5	R	<b>432</b> <i>23 Ophiuchi.</i>					
<b>425</b> <i>52 Hercules.</i>						Aug. 18	...	16 48 11.03	...	95 57 21.6	M
Aug. 7	...	16 45 43.86	...	48 48 28.2	M	20	...	48 10.81	...	57 20.7	M
11	...	45 43.44	...	48 22.4	M	23	...	48 10.87	...	57 20.9	M
19	...	45 43.42	...	48 20.6	M						

## Separate Results of Madras Meridian Circle Observations in 1880.

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>433</b> <i>25 Ophiuchi ι</i>										<b>439</b> <i>Lacaille 7102.</i>									
Aug. 24	...	16	48	19.59	...	79	38	5.8	M	May 29	5.8	16	59	9.75	...	151	30	56.1	R
25	...	48	19.75	...		38	5.6	M	June 17	5.6	59	9.71	...		30	55.2	R		
30	...	48	19.60	...		38	6.5	M	19	5.5	59	9.64	...		30	53.8	R		
31	...	48	19.84	...		38	5.6	M	Aug. 11	...	59	9.68	...		30	55.6	M		
										14	...	59	9.75	...		30	54.1	M	
<b>434</b> <i>27 Ophiuchi κ</i>										<b>440</b> <i>Lacaille 7107.</i>									
June 8	...	16	51	59.19	...	30	26	12.4	R	June 8	...	17	1	2.42	...	157	2	26.9	R
17	...	51	59.28	...		26	11.7	R	Aug. 19	...	1	2.42	...		2	27.7	M		
July 16	...	51	59.16	...		26	13.5	M											
23	...	51	59.22	...		26	12.9	R											
29	...	51	59.24	...		26	14.0	R											
<b>435</b> $\epsilon^2$ <i>Aræ.</i>										<b>441</b> <i>ι Scorpii.</i>									
May 29	...	16	53	33.74	...	143	3	17.8	R	June 4	5.6	17	2	0.69	...	134	23	59.0	R
										5	5.6	2	0.65	...		24	2.1	R	
										16	5.6	2	0.76	...		24	2.1	R	
<b>436</b> <i>19 Draconis h<sup>1</sup>.</i>										<b>442</b> <i>21 Draconis μ</i>									
May 28	...	16	55	21.98	...	24	40	54.0	R	June 7	...	17	2	50.74	...	35	22	13.9	R
June 5	...	55	23.29	...		40	53.9	R	July 28	...	2	50.63	...		22	14.4	R		
9	...	55	22.12	...		40	53.4	R	29	...	2	50.05	...		23	15.5	R		
28	...	55	22.10	5		40	54.7	R	31	...	2	50.76	...		22	11.9	M		
July 10	...	55	22.08	...		40	51.2	M	Aug. 3	...	2	50.71	...		22	10.7	M		
<b>437</b> <i>59 Herculis δ.</i>										<b>443</b> <i>35 Ophiuchi η</i>									
June 1	...	16	57	10.59	...	56	15	25.8	R	June 9	...	17	3	29.81	...	105	34	29.1	R
3	...	57	10.53	...		15	25.8	R	July 9	...	3	29.77	...		34	29.0	M		
4	...	57	10.48	...		15	26.7	R	17	...	3	29.82	...		34	28.5	M		
7	...	57	10.52	...		15	26.0	R	Aug. 18	...	3	29.63	...		34	27.9	M		
									20	...	3	29.71	...		34	28.8	M		
<b>438</b> <i>22 Ursæ Minoris ε—s.p.</i>										<b>444</b> <i>37 Ophiuchi.</i>									
Jan. 7	...	16	58	19.23	3	7	46	3.1	M	May 28	...	17	6	48.51	...	79	16	5.1	R
15	...	58	18.23	3		46	4.4	M											
22	...	58	19.21	3		46	3.1	M											
Dec. 10	...	58	18.42	3		46	1.9	M											
11	...	58	18.68	3		46	1.5	M											
13	...	58	18.81	3		46	6.8	M											
										<b>445</b> <i>36 Ophiuchi Δ—1st.</i>									
										May 29	5.0	17	7	58.22	...	116	25	31.2	R
										June 1	5.3	7	58.16	...		25	30.6	R	

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>446</b> $\iota$ Apodis.									<b>452</b> 69 <i>Herculis e</i> .										
June 8	...	17	8	43.50	...	159	59	38.8	R	May 28	...	17	13	31.81	...	52	34	55.0	R
Aug. 24	...		8	43.52	...		59	37.4	M	June 5	...		13	31.99	...		34	55.0	R
25	...		8	43.42	...		59	35.6	M	7	...		13	31.90	...		34	55.0	R
30	...		8	43.30	...		59	39.4	M	8	...		13	31.96	...		34	55.2	R
31	...		8	43.48	...		59	37.7	M	<b>453</b> 53 <i>Serpentis v</i>									
<b>447</b> 64 <i>Herculis a</i> <sup>1</sup> , Var. 1.									June 1 ... 17 14 4.81 ... 102 43 23.7 R										
June 19	...	17	9	10.50	...	75	28	18.8	R	9	...		14	4.61	...		43	22.7	R
July 9	...		9	10.66	...		28	18.2	M	<b>454</b> 42 <i>Ophiuchi <math>\theta</math></i>									
13	...		9	10.54	...		28	18.6	M	June 4	...	17	14	38.42	...	114	52	40.5	R
<b>448</b> $u$ <i>Scorpii</i> .									Aug. 19 ... 14 38.40 ... 52 39.7 M										
June 4	5.6	17	9	15.27	...	122	31	31.4	R	<b>455</b> $\kappa$ <sup>1</sup> <i>Aræ</i> .									
5	5.6		9	15.27	...		31	31.7	R	July 16	...	17	16	38.70	...	140	31	19.8	M
<b>449</b> 65 <i>Herculis <math>\delta</math></i>									<b>456</b> $\kappa$ <sup>2</sup> <i>Aræ</i> .										
July 10	...	17	10	6.04	...	65	1	4.2	M	May 29	5.6	17	17	51.32	...	140	31	17.3	R
16	...		10	5.95	...		1	5.5	M	June 17	5.6		17	51.15	4		31	18.1	R
23	...		10	6.17	...		1	4.7	M	July 17	...		17	51.16	...		31	17.7	M
28	...		10	6.17	...		1	5.4	R	<b>457</b> Taylor 8071.									
29	...		10	6.09	...		1	5.5	R	June 4	...	17	20	15.83	...	94	58	45.0	R
<b>450</b> 41 <i>Ophiuchi</i> .									7 ... 20 15.85 ... 58 44.1 R										
June 17	...	17	10	26.89	...	90	18	26.5	R	<b>458</b> 49 <i>Ophiuchi <math>\sigma</math></i>									
28	...		10	26.88	...		18	30.1	R	June 1	...	17	20	33.66	...	85	45	14.2	R
July 17	...		10	27.08	...		18	28.2	M	5	...		20	33.62	...		45	14.6	R
30	...		10	26.96	...		18	28.3	M	16	...		20	33.69	...		45	14.0	R
31	...		10	27.02	...		18	30.0	M	July 30	...		20	33.69	...		45	13.9	M
<b>451</b> 39 <i>Ophiuchi</i> —(South.)									Aug. 7 ... 20 33.63 ... 45 15.2 M										
June 16	...	17	10	41.62	...	114	9	15.6	R	9	...		20	33.00	...		45	13.9	M
Aug. 3	...		10	41.50	...		9	16.0	M	14	...		20	33.68	...		45	12.8	M
10	...		10	41.40	...		9	16.2	M	20	...		20	33.68	...		45	14.2	M
11	...		10	41.78	...		9	15.9	M	23	...		20	33.56	...		45	11.3	M
14	...		10	41.71	...		9	15.2	M	24	...		20	33.56	...		45	13.1	M
										30	...		20	33.58	...		45	15.6	M
										31	...		20	33.66	...		45	14.4	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>459</b> <i>σ Aræ.</i>										<b>466</b> <i>27 Draconis f.</i>									
May 28	5.6	17	26	43.81	...	136	25	14.4	R	May 28	...	17	32	26.44	...	21	47	18.2	R
29	5.6	26	43.81	...	25	14.5	R		June 1	...	32	26.55	...	47	20.7	R			
										4	...	32	26.46	...	47	20.9	R		
										Aug. 23	...	32	26.64	...	47	18.8	M		
<b>460</b> <i>Taylor 8122.</i>										<b>467</b> <i>60 Ophiuchi β</i>									
June 4	5.6	17	28	17.01	...	128	32	54.4	R	July 13	...	17	37	32.65	...	85	22	50.3	R
8	5.6	28	16.90	...	32	56.0	R		16	...	37	32.64	...	22	51.0	R			
9	5.6	28	16.97	...	32	54.6	R		31	...	37	32.78	...	22	51.0	M			
17	5.3	28	16.96	...	32	54.1	R		Aug. 10	...	37	32.71	...	22	49.7	M			
July 16	...	28	16.94	...	32	56.6	M		11	...	37	32.66	...	22	50.6	M			
									19	...	37	32.64	...	22	50.5	M			
<b>461</b> <i>55 Ophiuchi α</i>																			
July 13	...	17	29	21.77	...	77	21	4.3	R	24	...	37	32.62	...	22	50.4	M		
31	...	29	21.73	...	21	4.1	M		25	...	37	32.57	...	22	50.7	M			
Sep. 1	...	29	21.82	...	21	3.8	R		30	...	37	32.61	...	22	52.7	M			
									31	...	37	32.54	...	22	50.9	M			
<b>462</b> <i>24 Draconis ν<sup>1</sup></i>										<b>468</b> <i>28 Draconis ω</i>									
June 7	...	17	29	48.65	...	34	44	0.1	R	May 29	...	17	37	38.93	...	21	11	10.3	R
16	...	29	48.65	...	43	58.6	R		June 5	...	37	38.97	...	11	11.7	R			
July 30	...	29	48.61	6	43	58.1	M		8	...	37	39.08	...	11	12.5	R			
Aug. 10	...	29	48.79	...	43	56.2	M												
11	...	29	48.83	...	43	58.7	M		<b>469</b> <i>86 Herculis μ</i>										
									June 7	...	17	41	45.73	...	62	12	28.2	R	
<b>463</b> <i>25 Draconis ν<sup>2</sup></i>																			
July 28	...	17	29	53.86	...	34	44	40.1	R	8	...	41	45.71	...	12	28.3	R		
29	...	29	53.85	...	44	41.0	R		9	...	41	45.73	...	12	29.6	R			
Aug. 9	...	29	54.00	...	44	41.9	M		16	...	41	45.72	...	12	27.7	R			
14	...	29	54.08	...	44	40.9	M		17	...	41	45.70	...	12	27.5	R			
19	...	29	53.90	...	44	38.0	M		Aug. 3	...	41	45.59	...	12	25.6	M			
									9	...	41	45.76	...	12	28.4	M			
									Sep. 1	...	41	45.81	...	12	28.3	R			
<b>464</b> <i>57 Ophiuchi μ</i>										<b>470</b> <i>ι<sup>3</sup> Scorpii.</i>									
May 29	...	17	31	10.39	...	98	2	38.6	R	May 28	5.6	17	41	47.54	...	130	2	58.8	R
										June 1	5.8	41	47.38	...	2	58.2	R		
										4	5.6	41	47.56	...	2	58.9	R		
<b>465</b> <i>Taylor 8150.</i>										<b>471</b> <i>92 Herculis ξ</i>									
June 5	7.0	17	32	12.00	...	122	7	52.6	R	May 28	...	17	53	6.03	...	60	44	17.7	R
Aug. 20	...	32	12.02	...	7	51.8	M		29	...	53	6.04	...	44	18.2	R			



## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.
		h. m. s.		° ' "				h. m. s.		° ' "	
<b>472</b> <i>94 Herculis</i> $\nu$						<b>479</b> <i>72 Ophiuchi</i> .					
June 4	...	17 53 54.48	...	59 47 57.0	R	July 31	...	18 1 39.49	...	80 27 5.3	M
July 28	...	53 54.29	...	47 53.3	M	Aug. 7	...	1 39.56	...	27 5.9	M
28	...	53 54.48	...	47 55.8	R	10	...	1 39.54	...	27 7.6	M
31	...	53 54.42	...	47 55.5	M	11	...	1 39.49	...	27 5.2	M
						19	...	1 39.53	...	27 7.5	M
						Sep. 3	...	1 39.63	...	27 7.2	R
<b>473</b> <i>66 Ophiuchi</i> .						<b>480</b> <i>13 Sagittarii</i> $\mu^1$					
June 5	...	17 54 19.20	...	85 37 22.1	R	May 28	...	18 6 35.22	...	111 5 13.7	R
9	...	54 19.12	...	37 22.8	R	20	...	6 35.18	...	5 19.2	R
16	...	54 19.12	...	37 22.4	R	Sep. 4	...	6 35.05	...	5 17.6	R
<b>474</b> <i>67 Ophiuchi</i> .						<b>481</b> <i>40 Draconis</i> .					
June 1	...	17 54 38.29	...	87 3 39.5	R	Aug. 11	...	18 9 1.63	...	10 0 58.4	M
July 10	...	54 38.14	...	3 36.9	M	14	...	9 1.29	...	0 57.4	M
16	...	54 38.06	...	3 40.3	M	19	...	9 1.33	6	0 58.0	M
30	...	54 38.28	0	3 39.2	M						
Aug. 9	...	54 38.08	...	3 38.8	M						
<b>475</b> <i>93 Herculis</i> .						<b>482</b> <i>41 Draconis</i> .					
July 13	...	17 54 42.76	...	73 14 23.2	M	Aug. 9	...	18 9 7.14	6	10 0 45.1	M
Aug. 10	...	54 42.91	...	14 26.2	M	24	...	9 7.10	3	0 47.9	M
11	...	54 42.86	...	14 27.6	M	30	...	9 7.54	...	0 48.1	M
						Sep. 1	...	9 7.22	...	0 47.0	R
						3	...	9 7.55	...	0 47.8	R
<b>476</b> <i>35 Draconis</i> .						<b>483</b> <i>23 Ursæ Minoris</i> $\delta$					
Aug. 14	...	17 54 49.14	0	13 1 17.4	M	Aug. 25	...	18 11 3.26	3	3 23 27.0	M
23	...	54 49.48	...	1 16.8	M						
Sep. 1	...	54 49.31	...	1 20.5	R						
3	...	54 49.37	...	1 18.2	R						
7	...	54 49.33	...	1 18.4	R						
<b>477</b> <i>69 Ophiuchi</i> $\tau$						<b>484</b> <i>36 Draconis</i> .					
June 7	...	17 56 32.88	...	98 10 42.7	R	May 23	...	18 13 12.04	...	25 38 35.7	R
						July 10	...	13 12.22	...	38 31.4	M
						15	...	13 12.38	...	38 34.7	M
						16	...	13 12.09	...	38 35.7	M
						23	...	18 12.39	...	38 31.3	M
<b>478</b> $\pi$ <i>Pavonis</i> .											
Aug. 24	...	17 57 1.71	2	153 40 15.7	M						
25	...	57 1.71	...	40 16.0	M						
31	...	57 1.70	...	40 15.7	M						
Sep. 4	...	57 1.78	...	40 16.1	R						

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>485</b> 58 <i>Serpentis</i> $\eta$									<b>491</b> 5 <i>Lyræ</i> $\epsilon^2$ —2nd.										
Aug. 10	...	18	15	5.92	...	92	55	42.0	M	Aug. 11	...	18	40	24.21	...	50	30	44.1	M
23	...	15	6.03	...		55	42.3	M	14	...	40	24.23	...		30	42.4	M		
Sep. 4	...	15	6.01	...		55	40.6	R	23	...	40	24.24	...		30	40.2	M		
6	...	15	6.01	...		55	43.2	R	24	...	40	24.25	...		30	41.1	M		
13	...	15	6.09	...		55	43.1	R											
<b>486</b> 22 <i>Sagittarii</i> $\lambda$									<b>492</b> 6 <i>Lyræ</i> $\zeta^1$										
Aug. 23	...	18	20	33.88	...	115	29	8.8	M	Aug. 20	...	18	40	38.26	...	52	31	7.8	M
Sep. 3	...	20	33.79	...		29	7.8	R	25	...	40	38.46	...		31	5.9	M		
6	...	20	33.80	...		29	8.5	R	Sep. 1	...	40	38.34	...		31	9.0	R		
7	...	20	33.84	...		29	7.9	R	3	...	40	38.35	...		31	9.6	R		
13	...	20	33.88	...		29	7.0	R	6	...	40	38.46	...		31	8.4	R		
15	...	20	33.75	...		29	8.8	R											
<b>487</b> 44 <i>Draconis</i> $\chi$									<b>493</b> 7 <i>Lyræ</i> $\zeta^2$										
July 10	...	18	23	12.97	...	17	19	8.6	M	Aug. 30	...	18	40	40.11	6	52	31	48.7	M
23	...	23	13.19	6		19	9.6	M	Sep. 4	...	40	39.97	...		31	46.5	R		
Aug. 9	...	23	13.17	...		19	12.9	M	7	...	40	40.18	...		31	45.2	R		
11	...	23	13.15	...		19	12.2	M	13	...	40	39.98	...		31	46.2	R		
<b>488</b> 3 <i>Lyræ</i> $\alpha$ , <i>Vega</i>									<b>494</b> <i>Radeliffe</i> 4070.										
Aug. 14	...	18	32	52.55	...	51	19	37.2	M	Sep. 16	...	18	44	1.96	...	37	8	36.3	R
25	...	32	52.51	...		19	37.7	M	18	...	44	2.08	...		8	35.0	R		
Sep. 14	...	32	52.51	...		19	37.2	R	21	...	44	2.13	...		8	34.6	R		
15	...	32	52.41	...		19	36.4	R	22	...	44	1.86	...		8	34.6	R		
16	...	32	52.41	...		19	38.7	R											
<b>489</b> 46 <i>Draconis</i> $c$ .									<b>495</b> $\kappa$ <i>Pavonis</i> , <i>Var.</i>										
Aug. 9	...	18	40	18.32	...	34	34	51.8	M	Sep. 17	5.0	18	44	34.04	...	157	22	52.7	R
10	...	40	18.48	...		34	52.0	M	23	5.0	44	33.97	...		22	50.4	R		
19	...	40	18.46	...		34	49.5	M	Oct. 2	...	44	33.94	...		22	49.5	M		
									4	...	44	33.97	...		22	50.2	M		
									5	...	44	34.05	...		22	53.0	M		
<b>490</b> 4 <i>Lyræ</i> $\epsilon^1$ 2nd.									<b>496</b> 10 <i>Lyræ</i> $\beta^1$ , <i>Var.</i> 1.										
May 28	...	18	40	21.69	...	50	27	14.0	R	July 9	...	18	45	38.80	...	56	46	33.3	M
June 16	...	40	21.74	...		27	12.4	R											
July 10	...	40	21.90	5		27	14.3	M											
23	...	40	21.80	5		27	14.0	M											
29	...	40	21.79	...		27	14.9	R											
<b>497</b> $\omega$ <i>Pavonis</i> .									<b>497</b> $\omega$ <i>Pavonis</i> .										
										May 28	...	18	47	56.25	...	150	21	20.3	R

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>498</b> <i>B. F. 2577.</i>																			
Aug. 14	...	18	48	45.81	6	16	3	6.7	M	<b>505</b> <i>R. P. L. 131—s.p.</i>	...	18	53	59.45	3	3	26	41.5	R
Sep. 15	...	48	45.87	...	3	9.0	R												
18	...	48	45.67	...	3	8.5	R												
22	...	48	45.75	...	3	6.8	R												
24	...	48	45.92	...	3	7.7	R												
<b>499</b> <i>Radeliffe 4109.</i>																			
July 16	...	18	48	53.48	...	87	10	43.5	M	<b>506</b> <i>13 Aquilæ ε</i>	...	18	54	10.42	...	75	5	35.1	R
Aug. 24	...	48	53.85	...	10	42.2	M												
Sep. 3	...	48	53.42	...	10	40.9	R												
4	6.5	48	53.42	...	10	42.5	R												
<b>500</b> <i>47 Draconis o</i>																			
Aug. 19	...	18	49	25.87	...	30	45	26.6	M	<b>507</b> <i>52 Draconis v</i>	...	18	55	51.94	6	18	51	43.1	M
25	...	49	25.70	...	45	27.0	M												
Aug. 19	...	55	51.82	...	6	51	43.9	M											
20	...	55	51.82	...	6	51	43.9	M											
Aug. 20	...	55	51.70	...	6	51	43.0	M	...	...	55	51.77	...	51	47.2	R			
Sep. 6	...	55	51.77	...	51	45.9	R												
13	...	55	51.77	...	51	45.9	R												
<b>501</b> <i>11 Lyræ δ<sup>1</sup></i>																			
July 29	...	18	49	32.04	3	53	10	39.8	R	<b>508</b> <i>17 Aquilæ ζ</i>	...	18	59	53.48	...	76	18	47.8	M
Aug. 20	...	49	32.05	...	10	37.4	M												
23	...	49	31.98	...	10	36.7	M												
Sep. 1	...	49	31.90	...	10	38.1	R												
Aug. 14	...	59	53.51	...	18	48.3	M												
Sep. 1	...	59	53.58	...	18	46.9	R	...	...	59	53.52	...	18	46.7	R				
7	...	59	53.52	...	18	46.7	R												
15	...	59	53.55	...	18	46.7	R												
16	...	59	53.48	...	18	47.8	R												
18	...	59	53.61	...	18	47.5	R												
21	...	59	53.52	...	18	48.1	R												
Aug. 14	...	59	53.48	...	76	18	47.8			M									
30	...	59	53.51	...	18	48.3	M												
<b>502</b> <i>50 Draconis.</i>																			
Sep. 17	...	18	50	14.35	...	14	42	29.3	R	<b>509</b> <i>25 Aquilæ ω</i>	...	19	12	10.94	...	78	37	10.3	M
28	...	50	14.13	...	42	28.2	R												
Oct. 2	...	50	13.94	4	42	26.2	M												
4	...	50	14.06	5	42	27.7	M												
5	...	50	14.05	5	42	29.3	M												
Aug. 9	...	12	11.03	...	37	9.1	M												
Aug. 9	...	12	10.94	...	37	10.7	R												
Sep. 3	...	12	10.94	...	37	10.7	R												
6	...	12	10.97	...	37	9.9	R												
13	...	12	10.93	...	37	10.7	R												
14	...	12	10.93	...	37	12.0	R												
18	...	12	10.89	...	37	10.1	R												
22	...	12	10.96	...	37	9.9	R												
28	...	12	10.95	...	37	10.3	R												
Oct. 5	...	12	10.70	...	37	12.0	M												
<b>503</b> <i>θ Serpentis—2nd.</i>																			
July 31	...	18	50	16.65	...	85	57	10.0	M	<b>510</b> <i>Lacaille 8036—1st.</i>	...	19	12	37.75	4	161	41	40.1	R
Aug. 11	...	50	16.78	...	57	8.8	M												
Sep. 6	...	50	16.61	...	57	8.6	R												
Aug. 30	...	18	50	18.31	...	53	15	12.1	M										
Sep. 7	...	50	18.30	...	15	9.8	R	...	...	12	37.82	4	41	37.8	R				
18	...	50	18.34	...	15	8.6	R												
14	...	50	18.35	4	15	10.5	R												
16	...	50	18.36	...	15	12.1	R												
Sep. 17	...	12	38.07	4	41	38.3	R												
24	...	12	38.07	4	41	39.7	R												
29	9.0	12	38.07	4	41	39.7	R												
30	9.0	12	38.07	4	41	39.7	R												
Oct. 4	9.0	12	38.08	5	41	37.0	M												

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		h.	m.	s.		°	'	"	
<b>511</b> <i>30 Aquilæ δ</i>									
Aug. 11	...	19	19	26.87	...	87	7	22.5	M
25	...	19	19	26.84	...		7	22.2	M
30	...	19	26	86	...		7	23.0	M
31	...	19	26	84	...		7	21.7	M
Sep. 1	...	19	26	75	...		7	22.7	R
3	...	19	26	80	...		7	23.9	R
4	...	19	26	77	...		7	26.1	R
6	...	19	26	82	...		7	22.6	R
13	...	19	26	69	...		7	23.3	R
14	...	19	26	82	...		7	24.1	R
17	...	19	26	79	...		7	22.2	R
18	...	19	26	74	...		7	23.5	R
21	...	19	26	84	...		7	22.7	R
23	...	19	26	76	...		7	22.7	R
28	...	19	26	77	...		7	21.9	R
30	...	19	26	83	...		7	23.4	R
Oct. 2	...	19	26	81	...		7	21.4	M
5	...	19	26	75	...		7	24.6	M
<b>512</b> <i>51 Sagittarii h<sup>1</sup>, Var.</i>									
Aug. 24	...	19	28	44.59	5	114	58	46.0	M
25	...	28	44	39	...		58	47.9	M
Sep. 17	6.7	28	44	56	...		58	47.3	R
18	...	28	44	49	...		58	48.6	R
21	...	28	44	39	...		58	48.0	R
<b>513</b> <i>52 Sagittarii h<sup>2</sup>.</i>									
Sep. 1	...	19	29	24.11	...	115	8	47.1	R
16	...	29	24	16	...		8	48.6	R
20	...	29	24	16	...		8	48.4	R
22	...	29	24	13	...		8	47.4	R
24	...	29	24	11	...		8	46.9	R
29	...	29	24	18	...		8	47.7	R
Oct. 4	...	29	24	14	...		8	47.2	M
<b>514</b> <i>50 Aquilæ γ</i>									
Sep. 7	...	19	40	33.32	...	79	40	39.9	R
13	...	40	33	28	...		40	39.5	R
16	...	40	33	36	...		40	40.7	R
17	...	40	33	31	...		40	39.9	R
20	...	40	33	27	...		40	40.2	R
Sep. 21 ... 19 40 33.21 ... 79 40 40.8 R									
23 ... 40 33.28 ... 40 40.6 R									
28 ... 40 33.28 ... 40 39.6 R									
29 ... 40 33.26 ... 40 40.3 R									
30 ... 40 33.21 ... 40 40.2 R									
Oct. 1 ... 40 33.28 ... 40 39.3 M									
4 ... 40 33.24 ... 40 39.9 M									
6 ... 40 33.19 ... 40 38.4 M									
<b>515</b> <i>λ Ursæ Minoris.</i>									
Aug. 11	...	19	44	11.41	1	1	3	21.4	M
<b>516</b> <i>13 Vulpeculæ.</i>									
Aug. 9	...	19	48	21.43	...	66	13	56.1	M
10	...	48	21	47	...		13	56.2	M
<b>517</b> <i>58 Sagittarii ω</i>									
Sep. 22	...	19	48	29.25	...	116	36	58.2	R
<b>518</b> <i>60 Aquilæ β</i>									
July 16	...	19	49	25.16	...	83	63	28.9	M
Sep. 20	...	49	25	07	...		63	28.7	R
23	...	49	25	07	...		63	28.8	R
24	...	49	25	05	...		63	27.9	R
Oct. 6	...	49	25	05	...		63	26.2	M
7	...	49	24	08	...		63	27.0	M
8	...	49	25	09	...		63	27.4	M
<b>519</b> <i>65 Aquilæ θ</i>									
Aug. 9	...	20	5	6.76	...	91	10	35.1	M
Sep. 4	...	5	6	71	...		10	33.0	R
15	...	5	6	85	...		10	33.7	R
17	...	5	6	76	...		10	33.9	R
18	...	5	6	76	...		10	33.8	R
24	...	5	6	75	...		10	34.7	R
28	...	5	6	76	...		10	33.0	R
29	...	5	6	70	...		10	33.5	R
Oct. 1	...	5	6	83	...		10	35.0	M
2	...	5	6	86	...		10	33.4	M
4	...	5	6	68	...		10	33.7	M

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
Oct. 5	...	20	5	6.85	...	91	10	35.3	M	Sep. 29	...	20	25	41.83	3	5	17	7.8	R
6	...	5	6.82	...	10	33.2	M	30	...	25	41.98	3	17	5.6	R				
7	...	5	6.84	...	10	35.2	M	Oct. 2	...	25	41.33	3	17	4.3	M				
8	...	5	6.81	...	10	34.9	M	4	...	25	42.31	3	17	5.9	M				
9	...	5	6.64	...	10	34.4	M	<i>R. P. L. 141.—s.p.</i>											
<b>520</b> <i>6 Capricorni a<sup>2</sup></i>										Feb. 21	...	20	25	41.37	3	5	17	4.8	M
Sep. 6	...	20	11	23.66	...	102	54	56.0	R	25	...	25	42.58	3	17	5.7	M		
17	...	11	23.71	...	54	54.9	R	27	...	25	40.80	3	17	4.8	M				
21	...	11	23.78	...	54	55.6	R	28	...	25	41.06	3	17	7.7	M				
22	...	11	23.66	...	54	55.1	R	Mar. 1	...	25	41.41	3	17	5.8	R				
30	...	11	23.72	...	54	56.2	R	2	...	25	41.61	3	17	3.1	R				
Oct. 7	...	11	23.66	...	54	55.2	M	3	...	25	41.53	3	17	4.8	R				
8	...	11	23.63	...	54	54.0	M	4	...	25	41.66	5	17	6.1	R				
9	...	11	23.62	...	54	53.3	M	5	...	25	41.54	3	17	4.0	R				
<b>521</b> <i>1 Cephei κ</i>										6	...	25	41.85	3	17	6.2	R		
Aug. 19	...	20	12	54.29	...	12	39	0.9	M	<b>525</b> <i>R. P. L. 143.—s.p.</i>									
30	...	12	54.47	...	39	3.8	M	Feb. 18	...	20	27	26.04	3	5	15	16.2	M		
31	...	12	54.51	...	39	2.8	M	Apl. 7	...	27	27.50	3	15	16.6	T				
Sep. 8	...	12	54.81	...	38	59.9	R	13	...	27	25.58	3	15	16.6	T				
4	...	12	54.53	...	39	0.1	R	<b>526</b> <i>2 Delphini ε</i>											
<b>522</b> <i>11 Capricorni ρ</i>										Oct. 1	...	20	27	28.67	...	79	6	11.7	M
Sep. 3	...	20	22	0.79	...	108	12	32.3	R	13	...	27	28.66	...	6	10.5	M		
<b>523</b> <i>V Capricorni, Var. 8.</i>										<b>527</b> <i>2 Cephei θ</i>									
Sep. 4	9.5	20	23	49.84	...	102	37	47.8	R	Aug. 19	...	20	27	33.90	...	27	24	27.8	M
6	9.4	23	49.68	...	37	51.2	R	30	...	27	33.93	...	24	28.9	M				
7	...	23	49.77	...	37	51.8	R	31	...	27	33.91	...	24	30.6	M				
15	...	23	49.82	4	37	51.3	R	Sep. 3	...	27	33.77	...	24	28.5	R				
16	9.3	23	49.90	...	37	51.3	R	<b>528</b> <i>2 Aquarii ε</i>											
17	9.2	23	49.97	...	37	49.2	R	Aug. 30	...	20	41	10.72	...	99	56	2.9	M		
18	...	23	49.93	...	37	49.3	R	Sep. 4	...	41	10.73	...	55	59.6	R				
20	...	23	49.90	3	37	48.6	R	7	...	41	10.69	...	56	1.1	R				
22	...	23	49.86	...	37	50.3	R	15	...	41	10.76	...	56	1.3	R				
24	9.2	23	49.85	...	37	50.0	R	Oct. 2	...	41	10.61	...	56	1.6	M				
<b>524</b> <i>R. P. L. 141.</i>										4	...	41	10.70	...	56	2.3	M		
Sep. 21	...	20	25	41.34	3	5	17	7.6	R	13	...	41	10.59	...	56	1.3	M		
23	...	25	41.95	3	17	7.2	R	15	...	41	10.70	...	56	1.8	M				

## Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension. 1880. h. m. s.	No. of Wires.	Mean Polar Distance. 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension. 1880. h. m. s.	No. of Wires.	Mean Polar Distance. 1880. ° ' "	Observer.
<b>529</b> <i>32 Vulpeculæ.</i>						<b>535</b> <i>Anon.</i>					
Oct. 13	...	20 49 26.87	...	62 23 49.2	M	Sep. 22	9.0	21 4 53.25	...	121 4 38.9	R
14	...	49 26.85	...	23 51.6	M	24	8.5	4 53.33	...	4 39.6	R
15	...	49 26.70	...	23 50.7	M	30	8.5	4 53.30	...	4 37.7	R
16	...	49 26.72	...	23 50.7	M	Oct. 6	8.0	4 53.38	...	4 38.9	M
						8	8.5	4 53.39	...	4 40.6	M
<b>530</b> <i>76 Draconis—s.p.</i>						<b>536</b> <i>64 Cygni ζ</i>					
Feb. 21	...	20 51 10.65	5	7 54 50.9	M	Oct. 16	...	21 7 49.70	...	60 15 51.1	M
27	...	51 10.88	5	54 51.5	M	20	...	7 49.74	...	15 49.8	M
28	...	51 10.82	5	54 54.9	M	<b>537</b> <i>Anon.</i>					
Mar. 2	...	51 10.78	3	54 52.5	R	Sep. 3	9.0	21 9 28.67	5	120 47 4.0	R
3	...	51 10.62	3	54 54.1	R	4	9.2	9 28.49	...	47 4.0	R
<b>531</b> <i>Radcliffe 5066.</i>						<b>538</b> <i>O. A. S. 21345.</i>					
Aug. 30	...	20 52 59.81	...	9 53 54.4	M	Sep. 3	8.0	21 15 32.78	...	119 56 40.5	R
31	...	52 59.26	...	53 55.2	M	4	8.3	15 32.81	...	56 39.9	R
Sep. 4	...	52 59.60	...	53 52.1	R	6	8.5	15 32.74	4	56 42.8	R
<b>532</b> <i>23 Capricorni θ</i>						<b>539</b> <i>Brisbane 7028.</i>					
Sep. 30	...	20 59 11.97	...	107 42 31.4	R	Sep. 23	9.2	21 21 59.02	4	147 23 41.7	R
Oct. 14	...	59 11.84	...	42 30.2	M	Oct. 1	...	21 59.33	6	23 38.1	M
15	...	59 11.89	...	42 30.7	M	2	...	21 59.13	...	23 38.7	M
16	...	59 11.88	...	42 29.7	M	4	9.5	21 59.06	...	23 41.1	M
20	...	59 12.10	...	42 30.8	M	<b>540</b> <i>Anon.</i>					
<b>533</b> <i>ο Pavonis.</i>						<b>541</b> <i>22 Aquarii β</i>					
Sep. 17	5.5	21 2 3.43	...	160 36 50.4	R	Oct. 14	9.5	21 22 22.01	6	147 28 52.5	M
18	...	2 3.46	4	36 48.6	R	<b>534</b> <i>Anon.</i>					
Oct. 9	5.5	2 3.44	...	36 51.6	M	Sep. 23	9.5	21 2 50.74	...	120 58 45.8	R
13	5.5	2 3.58	...	36 47.0	M	Oct. 2	...	2 50.69	...	58 45.5	M
<b>534</b> <i>Anon.</i>						<b>541</b> <i>22 Aquarii β</i>					
Sep. 23	9.5	21 2 50.74	...	120 58 45.8	R	Sep. 16	...	21 25 14.44	...	96 5 53.3	R
Oct. 2	...	2 50.69	...	58 45.5	M	18	...	25 14.41	...	5 52.8	R
4	10.0	2 50.82	...	58 46.0	M	21	...	25 14.37	...	5 53.7	R
5	10.0	2 50.81	...	58 47.0	M	22	...	25 14.45	...	5 59.1	R
7	10.0	2 50.84	...	58 45.9	M	24	...	25 14.45	...	5 53.8	R



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		h.	m.	s.		.	'	"				h.	m.	s.		.	'	"	
<b>552</b> <i>W. B. E. XXII. 14.</i>									Oct. 28	...	22	10	29.97	...	98	22	48.0	M	
Oct. 14	...	22	3	9.83	...	98	7	15.8	M	29	...	10	30.00	...	22	48.4	M		
15	...	3	10.07	...		7	15.8	M	30	...	10	30.02	...	22	49.2	M			
25	...	3	9.82	...		7	17.5	M	Nov. 5	...	10	29.98	...	22	46.3	R			
26	...	3	10.05	...		7	18.6	M	8	...	10	30.03	...	22	47.1	R			
29	...	3	10.05	...		7	15.1	M	11	...	10	30.00	...	22	48.2	R			
<b>553</b> <i>26 Pegasi <math>\theta</math></i>									<b>559</b> <i>23 Cephei <math>\epsilon</math></i>										
Sep. 16	...	22	4	8.93	...	84	23	29.9	R	Sep. 24	...	22	10	36.94	...	33	33	14.3	R
24	...	4	8.76	...		23	28.7	R	30	...	10	36.90	...	33	14.5	R			
30	...	4	8.70	...		23	30.2	R	Oct. 1	...	10	37.02	5	33	14.2	M			
Oct. 1	...	4	8.87	...		23	28.7	M	<b>560</b> <i>47 Aquarii.</i>										
<b>554</b> <i>Radcliffe 5591.</i>									Sep. 17	5.0	22	14	59.23	...	112	11	55.5	R	
Sep. 22	5.0	22	6	30.01	...	39	46	7.9	R	18	...	14	59.16	...	11	56.0	R		
23	5.0	6	30.08	...		46	8.4	R	22	5.0	14	59.09	...	11	55.3	R			
Oct. 2	...	6	29.90	4		46	7.4	M	<b>561</b> <i>48 Aquarii <math>\gamma</math></i>										
4	5.5	6	29.83	...		46	6.9	M	Oct. 9	...	22	15	27.49	...	91	59	28.6	M	
<b>555</b> <i>24 Cephei.</i>									13	...	15	27.49	...	59	26.1	M			
Sep. 17	...	22	7	29.69	...	18	14	56.5	R	15	...	15	27.38	...	59	29.0	M		
21	...	7	29.82	...		14	59.6	R	16	...	15	27.41	...	59	28.7	M			
<b>556</b> <i>Radcliffe 5612.</i>									27	...	15	27.49	...	59	30.4	M			
Sep. 6	5.5	22	8	43.57	...	50	52	46.5	R	28	...	15	27.42	...	59	28.7	M		
16	5.0	8	43.65	...		52	48.2	R	29	...	15	27.56	...	59	27.1	M			
18	...	8	43.68	...		52	46.8	R	30	...	15	27.40	...	59	30.2	M			
<b>557</b> <i><math>\mu^2</math> Gruis.</i>									Nov. 2	...	15	27.41	...	59	27.7	R			
Oct. 5	5.0	22	9	12.81	...	132	13	26.5	M	8	...	15	27.40	...	59	29.9	R		
7	...	9	12.80	...		13	25.5	M	11	...	15	27.44	...	59	26.4	R			
8	5.5	9	12.84	...		13	25.0	M	12	...	15	27.40	...	59	28.6	R			
9	5.5	9	12.88	...		13	24.2	M	<b>562</b> <i>2 Lacerta.</i>										
<b>558</b> <i>43 Aquarii <math>\theta</math></i>									Sep. 16	...	22	16	4.06	...	44	4	3.0	R	
Oct. 16	...	22	10	30.09	...	98	22	47.1	M	Oct. 2	...	16	3.80	...	4	0.2	M		
21	...	10	30.06	...		22	49.5	M	5	...	16	3.86	...	3	59.6	M			
27	...	10	30.09	...		22	47.8	M	7	...	16	4.00	...	4	0.0	M			
<b>563</b> <i><math>\delta</math> Tucanae.</i>									Sep. 30	5.0	22	18	46.91	...	155	34	36.7	R	
Oct. 4	5.0	18	46.79	...		34	34.5	M	Oct. 4	5.0	18	46.79	...	34	34.5	M			
		18	46.75	...		34	30.3	M	6	5.0	18	46.75	...	34	30.3	M			



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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"						
<b>564</b> <i>R. P. L. 150.</i>									<b>569</b> <i>ρ Gruis.</i>															
Sep. 15	...	22	22	37.77	3	4	29	46.6	R	Sep. 22	5.5	22	36	32.15	...	132	2	18.8	R					
Oct. 20	...	22	37	64	3		29	47.0	M	24	5.5	36	32.10	...			2	20.4	R					
Nov. 6	...	22	37	07	3		29	48.1	R	30	5.5	36	32.16	...			2	23.0	R					
									Oct. 1									...	36	32.18	...	2	23.1	M
<b>565</b> <i>7 Lacertæ a</i>									<b>570</b> <i>η Gruis.</i>															
May 1	...	22	22	37.27	3	4	29	48.3	R	Oct. 2	...	22	38	15.38	...	144	7	50.2	M					
Sep. 22	...	22	26	20.65	...	40	20	3.0	R	4	5.5	38	15.25	...			7	47.7	M					
24	...	26	20	76	5		20	3.2	R	5	5.5	38	15.37	...			7	50.6	M					
<b>566</b> <i>59 Aquarii v</i>									<b>571</b> <i>32 Cephei ι</i>															
Sep. 15	5.0	22	28	7.74	...	111	19	18.2	R	Oct. 5	...	22	45	24.40	...	24	25	50.4	M					
17	5.0	28	7	65	...		19	18.3	R	7	...	45	24.51	...			25	48.1	M					
Oct. 2	...	28	7	69	...		19	18.7	M	9	...	45	24.67	...			25	48.5	M					
4	...	28	7	58	...		19	18.3	M	<b>572</b> <i>ρ Indi.</i>														
5	5.5	28	7	72	...		19	18.8	M	Oct. 4	5.5	22	46	17.18	3	160	42	52.6	M					
<b>567</b> <i>62 Aquarii η</i>									<b>573</b> <i>73 Aquarii λ</i>															
Oct. 7	...	22	29	11.35	...	90	44	6.6	M	Oct. 29	...	23	46	21.17	...	98	13	3.8	M					
15	...	29	11	45	...		44	6.1	M	Nov. 5	...	46	21.16	...			13	2.5	R					
30	...	29	11	26	...		44	8.1	M	6	...	46	21.13	...			13	1.9	R					
Nov. 2	...	29	11	26	...		44	6.9	R	9	...	46	21.14	...			13	1.1	R					
8	...	29	11	29	...		44	5.6	R	12	...	46	21.14	...			13	1.9	R					
12	...	29	11	29	...		44	4.7	R	16	...	46	21.09	...			13	2.8	R					
16	...	29	11	33	...		44	6.2	R	17	...	46	21.04	...			13	3.7	R					
<b>568</b> <i>42 Pegasi ζ</i>									<b>574</b> <i>54 Pegasi α, Markab.</i>															
Sep. 23	...	22	35	28.55	...	79	47	39.6	R	Sep. 30	...	23	58	46.94	...	75	26	24.9	R					
Oct. 20	...	35	28	39	...		47	38.0	M	Nov. 13	...	58	46.90	...			26	24.4	R					
27	...	35	28	59	...		47	40.4	M	17	...	58	46.87	...			26	25.2	R					
28	...	35	28	04	...		47	38.0	M	<b>575</b> <i>86 Aquarii ε<sup>1</sup>.</i>														
Nov. 2	...	35	28	59	...		47	38.9	R	Oct. 1	...	23	0	14.09	...	114	23	26.4	M					
5	...	35	28	53	...		47	39.0	R	5	...	0	13.99	...			23	28.0	M					
6	...	35	28	53	...		47	38.1	R	7	...	0	13.89	...			23	27.5	M					
9	...	35	28	45	...		47	40.1	R															
13	...	35	28	54	...		47	40.1	R															

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>576</b> <i>56 Pegasi.</i>									<b>582</b> <i>95 Aquarii <math>\psi^3</math></i>										
Oct. 2	...	23	1	15 <sup>35</sup> 86	...	65	10	42.8	M	Oct. 2	...	23	12	43.24	...	100	15	58.3	M
8	...	1	15	32 <sup>30</sup> 83	...	10	43.3	M	4	5.0	12	43.07	...	16	0.3	M			
13	...	1	15	32 <sup>30</sup> 83	...	10	42.4	M	7	5.5	12	43.23	...	16	0.4	M			
16	...	1	16	01	...	10	44.0	M	9	5.5	12	43.13	...	15	58.4	M			
Nov. 6	...	1	15	34 <sup>30</sup> 87	...	10	43.9	R	13	...	12	43.11	...	15	58.4	M			
<b>577</b> <i>88 Aquarii <math>\epsilon^2</math>.</i>									<b>583</b> <i>68 Pegasi <math>\nu</math></i>										
Oct. 6	...	23	3	2.76	...	111	49	21.1	M	Oct. 5	...	23	19	23.36	...	67	15	23.5	M
9	...	3	2.77	...	49	22.0	M	6	...	19	23.29	...	15	23.4	M				
15	...	3	2.58	...	49	22.0	M	<b>584</b> <i>8 Piscium <math>\kappa</math></i>											
Nov. 5	...	3	2.86	...	49	21.2	R	Oct. 1	...	23	20	46.77	...	89	24	2.0	M		
8	...	3	2.79	...	49	23.0	R	4	...	20	46.90	...	24	3.2	M				
<b>578</b> <i><math>\iota</math> Gruis.</i>									<b>585</b> <i>Radcliffe 6084.</i>										
Oct. 21	5.0	23	3	33.66	...	135	53	46.6	M	Oct. 2	...	23	22	12.21	6	20	17	58.7	M
25	...	3	33.72	...	53	48.6	M	7	5.5	22	12.36	...	18	0.5	M				
27	5.5	3	33.87	...	53	48.8	M	8	5.5	22	11.93	...	18	0.5	M				
<b>579</b> <i>33 Cephei <math>\pi</math></i>									<b>586</b> <i>R. P. L. 158--s.p.</i>										
Oct. 20	...	23	4	5.07	...	15	15	37.3	M	Mar. 17	...	23	27	48.20	3	3	21	18.4	T
26	...	4	5.19	...	15	38.8	M	Apl. 17	...	27	49.58	3	21	17.9	T				
28	...	4	4.73	...	15	40.2	M	May 6	...	27	47.61	3	21	19.3	R				
Nov. 9	...	4	5.10	...	15	38.4	R	10	...	27	49.78	3	21	19.8	R				
12	...	4	4.96	...	15	38.8	R	<b>587</b> <i>Anon.</i>											
<b>580</b> <i>6 Piscium <math>\gamma</math></i>									<b>588</b> <i>16 Andromedæ <math>\lambda</math></i>										
Oct. 25	...	23	10	56.73	...	87	22	22.3	M	Oct. 21	9.0	23	29	48.36	...	138	7	49.7	M
Nov. 1	...	10	56.61	...	22	23.0	R	27	9.0	29	48.36	...	7	47.2	M				
6	...	10	56.56	...	22	21.4	R	<b>581</b> <i>8 Andromedæ.</i>											
9	...	10	56.56	...	22	21.3	R	Oct. 1	...	23	12	11.00	...	41	38	21.3	M		
11	...	10	56.60	...	22	21.0	R	<b>582</b> <i>16 Andromedæ <math>\lambda</math></i>											
13	...	10	56.66	...	22	24.0	R	Oct. 5	...	23	31	41.19	...	44	11	31.2	M		
16	...	10	56.60	...	22	22.4	R	8	...	31	41.42	...	11	29.5	M				

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>589</b> <i>17 Andromedæ ε</i>									<b>597</b> <i>106 Aquarii ε<sup>1</sup></i>										
Oct. 6	...	23	32	14.87	...	47	23	45.2	M	Oct. 6	5.5	23	37	58.35	...	108	56	32.8	M
9	...	32	15.17	...	...	23	44.2	M	7	5.5	37	58.53	...	...	56	33.7	M		
18	...	32	14.95	...	...	23	41.8	M	8	5.5	37	58.44	...	...	56	33.5	M		
<b>590</b> <i>θ Phœnicis—2nd.</i>									<b>598</b> <i>Radcliffe 6184.</i>										
Oct. 26	...	23	33	1.24	...	137	18	13.2	M	Oct. 9	5.5	23	42	10.68	...	22	51	34.7	M
Nov. 5	...	33	1.25	...	...	18	13.4	R	<b>599</b> <i>δ Sculptoris.</i>										
8	...	33	1.25	...	...	18	13.7	R	Nov. 17	...	23	42	40.32	...	118	47	38.9	R	
<b>591</b> <i>Anon.</i>									<b>600</b> <i>28 Piscium ω</i>										
Oct. 28	9.5	23	33	26.16	...	138	15	15.6	M	Oct. 5	...	23	53	8.88	...	33	43	2.2	M
30	9.5	33	26.09	...	...	15	15.7	M	26	...	53	9.02	...	...	43	2.5	M		
Nov. 6	9.5	33	26.19	...	...	15	13.4	R	28	...	53	9.02	...	...	43	2.8	M		
9	9.5	33	26.13	...	...	15	12.5	R	29	...	53	8.82	...	...	43	2.9	M		
12	9.6	33	26.06	...	...	15	14.3	R	30	...	53	8.97	...	...	43	3.9	M		
<b>592</b> <i>Anon.</i>									Nov. 9      ...      53      8.89      ...      43      1.6      R										
Nov. 16	6.7	23	33	32.78	...	137	59	28.3	R	22	...	53	8.94	...	...	43	2.4	R	
17	6.7	33	32.93	...	...	59	28.7	R	<b>601</b> <i>Anon.</i>										
<b>593</b> <i>102 Aquarii ω<sup>1</sup></i>									Dec. 7      10.5      23      54      0.44      3      101      21      23.2      R										
Oct. 2	...	23	33	33.56	...	104	53	6.4	M	8	10.5	54	0.43	3	...	21	24.4	R	
14	...	33	33.60	...	...	53	5.7	M	<b>602</b> <i>τ Phœnicis.</i>										
15	...	33	23.52	...	...	53	7.5	M	Oct. 6	5.5	23	54	54.40	...	139	28	40.3	M	
20	...	33	33.54	...	...	53	6.6	M	9	5.5	54	54.58	...	...	28	39.7	M		
Nov. 11	...	33	33.54	...	...	53	7.1	R	13	...	54	54.48	...	...	28	39.8	M		
<b>594</b> <i>17 Piscium ι</i>									15      ...      54      54.41      ...      ...      28      40.2      M										
Oct. 1	...	23	33	46.68	...	85	1	24.4	M	20	...	54	54.31	...	...	28	41.8	M	
<b>595</b> <i>19 Andromedæ κ</i>									<b>603</b> <i>Radcliffe 6265.</i>										
Oct. 16	...	23	34	29.83	...	46	19	46.3	M	Oct. 7	5.5	23	55	29.90	...	29	26	42.3	M
25	...	34	29.95	...	...	19	47.7	M	14	...	55	29.89	...	...	26	41.0	M		
29	...	34	29.84	...	...	19	47.3	M	16	...	55	29.75	...	...	26	42.5	M		
<b>596</b> <i>73 Pegasi.</i>									21      5.5      55      29.75      ...      ...      26      44.9      M										
Oct. 5	...	23	37	57.36	...	61	13	7.6	M	<b>604</b> <i>ζ Sculptoris.</i>									
									Oct. 8      ...      23      56      10.72      ...      120      23      21.8      M										