
SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS,

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1870.

Separate Results of Madras Meridian Circle Observations in 1870.

| Number and Date. | Magnitude. | Mean Right Ascension 1870. | | | No. of Wires. | Mean Polar Distance 1870. | | | Observer. | Number and Date. | Magnitude. | Mean Right Ascension 1870. | | | No. of Wires. | Mean Polar Distance 1870. | | | Observer. | | |
|------------------------------------------------------------|------------|----------------------------|-------|-------|---------------|---------------------------|------|------|------------------------------------|-------------------------------|------------|----------------------------|-------|-------|---------------|---------------------------|------|------|-----------|--|--|
| | | h. | m. | s. | | o. | ' | " | | | | h. | m. | s. | | o. | ' | " | | | |
| 1 21 <i>Andromedae</i> α , <i>Alpherat</i> . | | | | | | | | | Oct. 18 | ... | 0 | 23 | 24.07 | ... | 94 | 40 | 34.8 | M | | | |
| Oct. 5 | ... | 0 | 1 | 40.24 | ... | 61 | 37 | 40.6 | R | 21 | ... | 23 | 24.15 | ... | 40 | 35.0 | M | | | | |
| 7 | ... | 1 | 40.21 | ... | ... | 87 | 39.6 | R | 22 | ... | 23 | 24.18 | ... | 40 | 34.5 | M | | | | | |
| Nov. 12 | ... | 1 | 40.24 | ... | ... | 87 | 38.9 | M | 23 | ... | 23 | 24.33 | ... | 40 | 34.8 | M | | | | | |
| 14 | ... | 1 | 40.14 | 8 | ... | 87 | 39.2 | R | | | | | | | | | | | | | |
| 17 | ... | 1 | 40.25 | ... | ... | 87 | 39.2 | M | | | | | | | | | | | | | |
| 18 | ... | 1 | 40.25 | ... | ... | 87 | 40.0 | M | | | | | | | | | | | | | |
| 2 <i>Lacaille</i> 9746. | | | | | | | | | 9 <i>Taylor</i> 143. | | | | | | | | | | | | |
| Oct. 29 | 8.0 | 0 | 3 | 6.54 | ... | 146 | 54 | 55.2 | M | Oct. 6 | 5.0 | 0 | 23 | 16.25 | 5 | 143 | 5 | 31.8 | R | | |
| 3 <i>Anon.</i> | | | | | | | | | Nov. 19 | 6.8 | 23 | 16.21 | ... | 5 | 31.5 | M | | | | | |
| Nov. 2 | 9.9 | 0 | 5 | 16.62 | ... | 126 | 16 | 3.0 | R | 10 13 <i>Ceti</i> . | | | | | | | | | | | |
| 5 | 9.0 | 5 | 16.86 | ... | ... | 16 | 7.6 | R | Sep. 10 | ... | 0 | 23 | 33.40 | ... | 94 | 18 | 32.6 | R | | | |
| 4 88 <i>Pegasi</i> γ , <i>Algenib</i> | | | | | | | | | Oct. 7 | ... | 23 | 33.41 | ... | 18 | 32.7 | R | | | | | |
| Nov. 3 | ... | 0 | 6 | 32.57 | ... | 75 | 32 | 22.7 | R | 11 <i>Taylor</i> 184. | | | | | | | | | | | |
| 12 | ... | 6 | 32.61 | ... | ... | 32 | 21.9 | M | Nov. 5 | ... | 0 | 34 | 5.37 | ... | 95 | 3 | 50.5 | R | | | |
| 18 | ... | 6 | 32.53 | ... | ... | 32 | 22.7 | M | 24 | 6.0 | 34 | 5.30 | ... | 3 | 57.2 | M | | | | | |
| 19 | ... | 6 | 32.53 | ... | ... | 32 | 22.6 | M | 12 16 <i>Ceti</i> β . | | | | | | | | | | | | |
| 5 <i>Lalande</i> 421. | | | | | | | | | Oct. 12 | ... | 0 | 37 | 3.77 | ... | 108 | 42 | 2.8 | R | | | |
| Oct. 28 | 7.2 | 0 | 16 | 5.91 | ... | 51 | 58 | 2.4 | M | 31 | ... | 37 | 3.55 | ... | 42 | 2.6 | M | | | | |
| 6 <i>Anon.</i> | | | | | | | | | Nov. 1 | ... | 37 | 3.62 | ... | 42 | 3.6 | R | | | | | |
| Oct. 12 | 9.7 | 0 | 19 | 18.19 | 5 | 26 | 34 | 37.7 | R | 14 | ... | 37 | 3.83 | ... | 42 | 6.3 | R | | | | |
| 7 <i>Lacaille</i> 88. | | | | | | | | | 18 | ... | 37 | 3.76 | ... | 42 | 3.0 | M | | | | | |
| Oct. 31 | 7.4 | 0 | 19 | 43.32 | ... | 130 | 22 | 3.0 | M | 23 | ... | 37 | 3.74 | ... | 42 | 3.5 | M | | | | |
| Nov. 19 | 7.9 | 19 | 49.04 | ... | ... | 22 | 4.2 | M | 13 <i>Anon.</i> | | | | | | | | | | | | |
| 8 12 <i>Ceti</i> . | | | | | | | | | Nov. 26 | 9.1 | 0 | 40 | 10.03 | ... | 150 | 43 | 57.7 | M | | | |
| Sep. 10 | ... | 0 | 23 | 24.24 | ... | 94 | 40 | 35.4 | R | 14 58 <i>Piscium</i> . | | | | | | | | | | | |
| Oct. 8 | ... | 23 | 24.29 | ... | ... | 40 | 35.1 | R | Oct. 14 | ... | 0 | 40 | 14.32 | ... | 78 | 44 | 8.9 | R | | | |
| Nov. 1 | ... | 23 | 24.27 | ... | ... | 40 | 34.5 | R | 15 <i>Lacaille</i> 234. | | | | | | | | | | | | |
| 3 | ... | 23 | 24.20 | ... | ... | 40 | 35.5 | R | Nov. 19 | 7.0 | 0 | 45 | 11.30 | 5 | 129 | 14 | 10.0 | M | | | |
| 7 | ... | 23 | 24.27 | ... | ... | 40 | 34.6 | R | 16 <i>Anon.</i> | | | | | | | | | | | | |
| 14 | ... | 23 | 24.30 | ... | ... | 40 | 34.5 | R | Nov. 25 | 9.0 | 0 | 45 | 26.64 | ... | 129 | 11 | 50.8 | M | | | |
| 17 | ... | 23 | 24.35 | ... | ... | 40 | 34.8 | M | | | | | | | | | | | | | |

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14.46

Separate Results of Madras Meridian Circle Observations in 1870.

| Number and Date. | Magnitude. | Mean Right Ascension 1870. | | | No. of Wires. | Mean Polar Distance 1870. | | | Observer. | Number and Date. | Magnitude. | Mean Right Ascension 1870. | | | No. of Wires. | Mean Polar Distance 1870. | | | Observer. |
|--------------------------------|------------|----------------------------|----|---------------------------|---------------|---------------------------|----|------|-----------|----------------------------|------------|----------------------------|----|-------|---------------|---------------------------|------|------|-----------|
| | | h. | m. | s. | | o. | ' | " | | | | h. | m. | s. | | o. | ' | " | |
| 34 Taylor 539. | | | | | | | | | | 40 Anon. | | | | | | | | | |
| Dec. 16 | 5.6 | 1 | 31 | 59.25 | ... | 148 | 56 | 5.7 | M | Jan. 6 | 9.9 | 1 | 49 | 43.22 | 5 | 86 | 44 | 33.0 | R |
| | | | | | | | | | | Nov. 26 | 9.9 | | 49 | 42.91 | 5 | | 44 | 34.6 | M |
| 35 α Eridani, Achernar. | | | | | | | | | | 41 W. B. E. I. 892. | | | | | | | | | |
| Oct. 11 | ... | 1 | 32 | 52.41 | 5 | 147 | 53 | 54.8 | R | Nov. 3 | ... | 1 | 51 | 15.37 | ... | 86 | 57 | 54.8 | R |
| Nov. 1 | ... | | 32 | 52.10 | ... | | 58 | 54.5 | R | Dec. 14 | 9.3 | | 51 | 15.11 | 5 | | 57 | 54.3 | R |
| Dec. 6 | ... | | 32 | 52.23 | ... | | 53 | 55.5 | R | | | | | | | | | | |
| 36 106 Piscium ν | | | | | | | | | | 42 Anon. | | | | | | | | | |
| Nov. 5 | ... | 1 | 34 | 40.13 | ... | 85 | 10 | 18.2 | R | Nov. 8 | ... | 1 | 52 | 30.50 | 3 | 145 | 46 | 37.2 | R |
| 19 | ... | | 34 | 40.04 | ... | | 10 | 17.1 | M | | | | | | | | | | |
| 21 | ... | | 34 | 39.89 | ... | | 10 | 16.9 | M | | | | | | | | | | |
| 22 | ... | | 34 | 40.06 | ... | | 10 | 16.7 | M | | | | | | | | | | |
| 23 | ... | | 34 | 39.88 | ... | | 10 | 17.2 | M | | | | | | | | | | |
| 24 | ... | | 34 | 40.17 | ... | | 10 | 17.3 | M | | | | | | | | | | |
| 25 | ... | | 34 | 40.07 | ... | | 10 | 16.7 | M | | | | | | | | | | |
| 26 | ... | | 34 | 39.94 | ... | | 10 | 17.8 | M | | | | | | | | | | |
| Dec. 2 | ... | | 34 | 39.95 | ... | | 10 | 16.8 | R | | | | | | | | | | |
| 37 110 Piscium ο | | | | | | | | | | 43 Anon. | | | | | | | | | |
| Oct. 10 | ... | 1 | 33 | ^{31.88} 32.15 | 6 | 81 | 29 | 53.6 | R | Nov. 11 | 9.0 | 1 | 53 | 9.39 | 5 | 151 | 21 | 9.6 | R |
| 38 Anon. | | | | | | | | | | 44 W. B. E. I. 940. | | | | | | | | | |
| Nov. 11 | 8.9 | 1 | 33 | 45.70 | 5 | 152 | 1 | 5.2 | R | Jan. 6 | 7.6 | 1 | 53 | 36.29 | 6 | 86 | 14 | 34.5 | R |
| 39 6 Arietis β | | | | | | | | | | 45 Anon. | | | | | | | | | |
| Oct. 11 | ... | 1 | 47 | 27.69 | ... | 69 | 49 | 45.7 | R | Nov. 25 | 9.1 | 1 | 56 | 23.85 | ... | 87 | 27 | 48.1 | M |
| Nov. 8 | ... | | 47 | 27.69 | ... | | 49 | 44.7 | R | | | | | | | | | | |
| 9 | ... | | 47 | 27.66 | ... | | 49 | 44.6 | R | | | | | | | | | | |
| 11 | ... | | 47 | 27.65 | ... | | 49 | 44.2 | R | | | | | | | | | | |
| 21 | ... | | 47 | 27.76 | ... | | 49 | 44.7 | M | | | | | | | | | | |
| 23 | ... | | 47 | 27.82 | ... | | 49 | 45.1 | M | | | | | | | | | | |
| 24 | ... | | 47 | 27.53 | ... | | 49 | 44.7 | M | | | | | | | | | | |
| 25 | ... | | 47 | 27.69 | ... | | 49 | 42.7 | M | | | | | | | | | | |
| 28 | ... | | 47 | 27.53 | ... | | 49 | 45.3 | M | | | | | | | | | | |
| 29 | ... | | 47 | 27.68 | ... | | 49 | 45.1 | M | | | | | | | | | | |
| Dec. 2 | ... | | 47 | 27.70 | ... | | 49 | 44.2 | R | | | | | | | | | | |
| 6 | ... | | 47 | 27.68 | ... | | 49 | 43.8 | R | | | | | | | | | | |
| 46 Anon. | | | | | | | | | | 47 13 Arietis α | | | | | | | | | |
| | | | | | | | | | | Dec. 5 | ... | | 59 | 50.92 | ... | 9 | 15.1 | M | |
| | | | | | | | | | | 13 | ... | | 59 | 50.86 | ... | 9 | 14.0 | R | |
| | | | | | | | | | | 14 | ... | | 59 | 50.97 | 5 | 9 | 15.1 | R | |
| 48 Anon. | | | | | | | | | | 48 Anon. | | | | | | | | | |
| | | | | | | | | | | Nov. 24 | 9.6 | 2 | 1 | 10.03 | ... | 87 | 16 | 50.1 | M |

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