
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1867

REDUCED TO JANUARY 1. OF THAT YEAR.

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|----------|-------------------------|----------------------|----------|-----------------|---------------|-------------------|
| | | | | <i>h</i> | <i>m</i> | <i>s</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 1 | 21 Androm. α (<i>Alpherat</i>) ... | 2.0 | ... | 0 | 1 | 31.04 | 61 | 38 | 38.7 | 3 | 0.77 |
| 2 | ... .. | 9.2 | 1 | 0 | 2 | 1.55 | 127 | 29 | 28.3 | 1 | 0.81 |
| 3 | Lacaille 9746 | 8.0 | 1 | 0 | 2 | 57.24 | 146 | 55 | 55.5 | 1 | 0.84 |
| 4 | ... .. | 9.4 | 2 | 0 | 5 | 7.73 | 126 | 17 | 5.3 | 2 | 0.80 |
| 5 | ... .. | 8.0 | 1 | 0 | 6 | 20.18 | 181 | 7 | 17.9 | 1 | 0.76 |
| 6 | 88 Pegasi γ (<i>Algenib</i>) ... | 3.0 | ... | 0 | 6 | 23.30 | 75 | 38 | 22.4 | 4 | 0.80 |
| 7 | Lalande 163 | 7.6 | 2 | 0 | 7 | 47.58 | 89 | 26 | 35.0 | 2 | 0.86 |
| 8 | Taylor 64 | 7.7 | 3 | 0 | 14 | 16.77 | 129 | 58 | 38.2 | 3 | 0.88 |
| 9 | Lalande 421 | 7.4 | 1 | 0 | 15 | 56.60 | 51 | 59 | 1.1 | 2 | 0.80 |
| 10 | Lacaille 61 | 6.9 | 1 | 0 | 16 | 10.56 | 129 | 59 | 59.3 | 1 | 0.84 |
| 11 | Lacaille 88 | 8.0 | 1 | 0 | 19 | 39.87 | 130 | 23 | 1.8 | 1 | 0.89 |
| 12 | ... .. | 8.8 | 2 | 0 | 22 | 51.01 | 94 | 45 | 0.5 | 2 | 0.84 |
| 13 | 12 Ceti | 6.2 | ... | 0 | 23 | 15.06 | 94 | 41 | 34.6 | 8 | 0.85 |
| 14 | Lalande 670 | 6.6 | 1 | 0 | 23 | 18.35 | 85 | 52 | 33.7 | 1 | 0.88 |
| 15 | ... .. | 9.6 | 1 | 0 | 25 | 32.03 | 76 | 8 | 14.8 | 1 | 0.89 |
| 16 | ... .. | 10.5 | 1 | 0 | 26 | 13.15 | 76 | 14 | 13.7 | 1 | 0.71 |
| 17 | ... .. | 8.3 | 1 | 0 | 26 | 52.76 | 144 | 53 | 22.3 | 1 | 0.78 |
| 18 | Taylor 143... .. | 6.5 | 2 | 0 | 28 | 7.52 8.09 | 143 | 6 | 30.8 | 2 | 0.85 |
| 19 | ... .. | 9.0 | 3 | 0 | 32 | 5.31 | 128 | 48 | 52.5 | 3 | 0.84 |
| 20 | ... .. | 9.4 | 2 | 0 | 35 | 7.90 | 83 | 27 | 53.2 | 2 | 0.89 |
| 21 | 16 Ceti β | 2.1 | ... | 0 | 36 | 54.66 | 108 | 43 | 2.6 | 7 | 0.86 |
| 22 | W. B. E. 0.628 | 9.0 | 1 | 0 | 37 | 3.20 | 93 | 48 | 19.6 | 1 | 0.87 |
| 23 | W. B. E. 0.697 | 8.7 | 1 | 0 | 40 | 52.69 | 95 | 13 | 33.4 | 2 | 0.83 |
| 24 | W. B. E. 0.705 | 7.9 | 1 | 0 | 41 | 17.35 | 94 | 26 | 20.9 | 2 | 0.83 |
| 25 | 63 Piscium δ | 4.6 | ... | 0 | 41 | 46.96 | 83 | 8 | 21.3 | 1 | 0.85 |
| 26 | W. B. E. 0.716 | 8.8 | 1 | 0 | 41 | 50.66 | 94 | 35 | 49.5 | 1 | 0.92 |
| 27 | Lacaille 234 | 7.0 | 3 | 0 | 45 | 3.143 | 129 | 15 | 8.1 | 3 | 0.90 |
| 28 | ... .. | 9.4 | 2 | 0 | 45 | 18.13 | 129 | 12 | 55.3 | 2 | 0.86 |
| 29 | ... .. | 9.5 | 2 | 0 | 50 | 28.91 | 129 | 39 | 11.0 | 3 | 0.87 |
| 30 | Lacaille 264 | 7.6 | 3 | C | 50 | 52.28 | 154 | 41 | 8.7 | 3 | 0.85 |
| 31 | ... .. | 9.3 | 2 | 0 | 51 | 11.99 | 130 | 39 | 56.9 | 2 | 0.91 |
| 32 | ... .. | 8.5 | ... | 0 | 51 | 59.05 | 130 | 41 | 3.2 | 1 | 0.79 |
| 33 | 71 Piscium ϵ | 4.5 | ... | 0 | 56 | 2.48 | 82 | 49 | 36.5 | 7 | 0.85 |
| 34 | ... .. | 9.6 | 2 | 1 | 1 | 33.72 | 17 | 35 | 22.3 | 2 | 0.89 |
| 35 | ... .. | 7.4 | 1 | 1 | 3 | 15.84 | 150 | 15 | 20.3 | 1 | 0.94 |

1.3

89

2.13

7.—Star occulted by the moon, when totally eclipsed, on 1866 Sep. 24.
 22.—23.—24.—26.—Comparison stars for Europa in 1861.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 1 | 21 Androm. α (Alpherat) | + 3.0768 | + 0.0182 | + 0.009 | - 20.055 | + 0.013 | + 0.15 | 4 |
| 2 | ... .. | + 3.0631 | - 0.0207 | ... | - 20.054 | + 0.013 | ... | ... |
| 3 | Lacaille 9746 | + 3.0456 | - 0.0429 | ... | - 20.053 | + 0.015 | ... | ... |
| 4 | ... .. | + 3.0501 | - 0.0194 | ... | - 20.051 | + 0.019 | ... | ... |
| 5 | ... .. | + 3.0398 | - 0.0233 | ... | - 20.048 | + 0.021 | ... | ... |
| 6 | 88 Pegasi γ (Algenib) | + 3.0816 | + 0.0100 | 0.000 | - 20.048 | + 0.022 | + 0.02 | 26 |
| 7 | Lalande 163 | + 3.0724 | + 0.0026 | ... | - 20.044 | + 0.024 | ... | ... |
| 8 | Taylor 64 | + 3.0023 | - 0.0211 | ... | - 20.016 | + 0.037 | ... | 69 |
| 9 | Lalande 421 | + 3.1447 | + 0.0271 | ... | - 20.007 | + 0.041 | ... | ... |
| 10 | Lacaille 61 | + 2.9930 | - 0.0209 | ... | - 20.005 | + 0.040 | ... | ... |
| 11 | Lacaille 88 | + 2.9747 | - 0.0207 | ... | - 19.981 | + 0.046 | ... | ... |
| 12 | ... .. | + 3.0611 | + 0.0007 | ... | - 19.956 | + 0.054 | ... | ... |
| 13 | 12 Ceti | + 3.0609 | + 0.0008 | - 0.002 | - 19.952 | + 0.055 | + 0.01 | 112 |
| 14 | Lalande 670 | + 3.0819 | + 0.0054 | ... | - 19.951 | + 0.054 | ... | 118 |
| 15 | ... .. | + 3.1088 | + 0.0103 | ... | - 19.931 | + 0.059 | ... | ... |
| 16 | ... .. | + 3.1096 | + 0.0109 | ... | - 19.924 | + 0.061 | ... | ... |
| 17 | ... .. | + 2.8496 | - 0.0325 | ... | - 19.917 | + 0.058 | ... | ... |
| 18 | Taylor 148 | + 2.8540 | - 0.0303 | ... | - 19.904 | + 0.060 | ... | 143 |
| 19 | ... .. | + 2.9225 | - 0.0176 | ... | - 19.859 | + 0.069 | ... | ... |
| 20 | ... .. | + 3.0955 | + 0.0073 | ... | - 19.819 | + 0.078 | ... | ... |
| 21 | 16 Ceti β | + 2.9994 | - 0.0055 | + 0.018 | - 19.795 | + 0.080 | - 0.02 | 196 |
| 22 | W. B. E. 0.628 | + 3.0570 | + 0.0020 | ... | - 19.794 | + 0.080 | ... | ... |
| 23 | W. B. E. 0.697 | + 3.0503 | + 0.0015 | ... | - 19.787 | + 0.087 | ... | ... |
| 24 | W. B. E. 0.705 | + 3.0535 | + 0.0019 | ... | - 19.781 | + 0.087 | ... | ... |
| 25 | 63 Piscium δ | + 3.1013 | + 0.0077 | + 0.008 | - 19.722 | + 0.090 | + 0.05 | 222 |
| 26 | W. B. E. 0.716 | + 3.0526 | + 0.0018 | ... | - 19.721 | + 0.088 | ... | ... |
| 27 | Lacaille 234 | + 2.8587 | - 0.0161 | ... | - 19.668 | + 0.090 | ... | ... |
| 28 | ... .. | + 2.8578 | - 0.0160 | ... | - 19.664 | + 0.090 | ... | ... |
| 29 | ... .. | + 2.8300 | - 0.0155 | ... | - 19.570 | + 0.098 | ... | ... |
| 30 | Lacaille 264 | + 2.4499 | - 0.0318 | ... | - 19.568 | + 0.087 | ... | ... |
| 31 | ... .. | + 2.8076 | - 0.0160 | ... | - 19.556 | + 0.099 | ... | ... |
| 32 | ... .. | + 2.8138 | - 0.0160 | ... | - 19.542 | + 0.100 | ... | ... |
| 33 | 71 Piscium ϵ | + 3.1128 | + 0.0087 | - 0.002 | - 19.459 | + 0.119 | 0.00 | 256 |
| 34 | ... .. | + 4.1914 | + 0.1022 | ... | - 19.336 | + 0.171 | ... | ... |
| 35 | ... .. | + 2.4345 | - 0.0287 | ... | - 19.296 | + 0.105 | ... | ... |

13.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|-----------|-----------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 36 | ... .. | 9.0 | 1 | 1 | 4 | 1.81 | 18 | 33 | 53.2 | 1 | 0.89 |
| 37 | ... .. | 9.4 | 3 | 1 | 4 | 55.14 | 127 | 20 | 48.2 | 3 | 0.83 |
| 38 | O. A. N. 1303 ... | 7.0 | 1 | 1 | 9 | 2.56 | 18 | 18 | 2.6 | 1 | 0.93 |
| 39 | 1 Urs. Min. α (<i>Polaris</i>) ... | 2.2 | ... | 1 | 10 | 16.66 | 1 | 23 | 59.4 | 12 | 0.56 |
| 40 | ... .. | 9.4 | 1 | 1 | 12 | 21.17 | 152 | 16 | 34.2 | 1 | 0.88 |
| 41 | B. 203 ... | 6.9 | 1 | 1 | 15 | 7.20 | 150 | 46 | 24.0 | 1 | 0.84 |
| 42 | 45 Ceti θ^1 ... | 3.8 | ... | 1 | 17 | 22.49 | 98 | 52 | 14.7 | 8 | 0.85 |
| 43 | ... .. | 8.0 | ... | 1 | 19 | 0.18 | 151 | 19 | 27.8 | 1 | 0.71 |
| 44 | Taylor 465 ... | 7.0 | 1 | 1 | 19 | 38.91 | 91 | 5 | 28.3 | 1 | 0.83 |
| 45 | 99 Piscium η ... | 4.5 | ... | 1 | 24 | 22.13 | 75 | 20 | 27.2 | 10 | 0.88 |
| 46 | Taylor 486 ... | 8.0 | 1 | 1 | 25 | 49.04 | 140 | 35 | 15.8 | 1 | 0.71 |
| 47 | ... .. | 8.5 | 1 | 1 | 25 | 51.30 | 150 | 20 | 42.7 | 1 | 0.89 |
| 48 | 102 Piscium π ... | 5.6 | ... | 1 | 30 | 3.03 | 78 | 32 | 22.0 | 1 | 0.89 |
| 49 | Taylor 525 ... | 6.0 | ... | 1 | 30 | 15.64 | 148 | 49 | 12.0 | 1 | 0.92 |
| 50 | ... .. | 8.6 | 2 | 1 | 31 | 30.84 | 130 | 51 | 20.7 | 2 | 0.91 |
| 51 | Taylor 539 ... | 6.0 | 1 | 1 | 31 | 52.23 | 148 | 57 | 0.8 | 1 | 0.82 |
| 52 | α Eridani (<i>Achernar</i>) ... | 1.0 | ... | 1 | 32 | 45.69 | 147 | 54 | 50.2 | 2 | 0.81 |
| 53 | 106 Piscium ν ... | 4.7 | ... | 1 | 34 | 30.68 | 85 | 11 | 11.5 | 8 | 0.84 |
| 54 | Lacaille 507 ... | 6.0 | ... | 1 | 37 | 14.77 | 151 | 27 | 35.6 | 1 | 0.92 |
| 55 | 110 Piscium \circ ... | 4.4 | ... | 1 | 38 | 22.22 | 81 | 30 | 46.2 | 1 | 0.71 |
| 56 | ... .. | 9.2 | 1 | 1 | 38 | 39.77 | 152 | 1 | 58.3 | 1 | 0.82 |
| 57 | ... .. | 8.4 | 1 | 1 | 39 | 59.70 | 149 | 26 | 26.4 | 1 | 0.92 |
| 58 | ... .. | 9.7 | 2 | 1 | 40 | 30.43 | 128 | 36 | 8.7 | 2 | 0.84 |
| 59 | ... .. | 9.3 | 1 | 1 | 46 | 16.03 | 148 | 57 | 3.6 | 1 | 0.95 |
| 60 | Lacaille 550 ... | 8.5 | 3 | 1 | 46 | 43.41 | 129 | 24 | 14.6 | 3 | 0.85 |
| 61 | 6 Arietis β ... | 2.8 | ... | 1 | 47 | 17.76 | 69 | 50 | 37.6 | 10 | 0.86 |
| 62 | ... .. | 9.0 | 1 | 1 | 49 | 22.47 | 126 | 6 | 37.6 | 1 | 0.89 |
| 63 | ... .. | 9.0 | 1 | 1 | 52 | 24.32 | 145 | 47 | 31.3 | 1 | 0.94 |
| 64 | ... .. | 8.8 | 1 | 1 | 53 | 3.63 | 151 | 22 | 2.7 | 1 | 0.94 |
| 65 | ... .. | 9.4 | 2 | 1 | 56 | 14.35 | 129 | 57 | 36.7 | 2 | 0.85 |
| 66 | ... .. | 9.3 | 1 | 1 | 56 | 14.52 | 129 | 26 | 22.5 | 1 | 0.80 |
| 67 | 13 Arietis α ... | 2.0 | ... | 1 | 59 | 40.81 | 67 | 10 | 6.2 | 10 | 0.87 |
| 68 | ... .. | 8.8 | 1 | 2 | 1 | 10.08 | 148 | 46 | 47.5 | 1 | 0.94 |
| 69 | ... .. | 9.3 | 1 | 2 | 6 | 11.21 | 151 | 23 | 15.8 | 1 | 0.94 |
| 70 | 21 Arietis ... | 5.6 | ... | 2 | 8 | 10.30 | 65 | 34 | 31.9 | 1 | 0.96 |

36.—38.— Stars observed for map of S Cassiopeæ Var. 4.

17.00

7

43.41

38.2

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| | | <i>s</i> | <i>s</i> | <i>s</i> | " | " | " | |
| 36 | ... .. | + 4.1698 | + 0.1517 | ... | - 19.277 | + 0.177 | ... | ... |
| 37 | ... .. | + 2.7869 | - 0.0123 | ... | - 19.256 | + 0.122 | ... | ... |
| 38 | O. A. N. 1303 | + 4.2718 | + 0.1510 | ... | - 19.152 | + 0.194 | ... | ... |
| 39 | 1 Urs. Min. α (<i>Polaris</i>) | + 19.5929 | + 13.6992 | + 0.065 | - 19.119 | + 0.871 | 0.00 | 360 |
| 40 | ... .. | + 2.2823 | - 0.0203 | ... | - 19.064 | + 0.111 | ... | ... |
| 41 | Brisbane 203 ... | + 2.3028 | - 0.0190 | ... | - 18.987 | + 0.116 | ... | ... |
| 42 | 45 Ceti θ^1 ... | + 3.0030 | + 0.0018 | - 0.007 | - 18.923 | + 0.154 | + 0.22 | 420 |
| 43 | ... .. | + 2.2462 | - 0.0173 | ... | - 18.875 | + 0.119 | ... | ... |
| 44 | Taylor 465 ... | + 3.0634 | + 0.0056 | ... | - 18.856 | + 0.160 | ... | 488 |
| 45 | 99 Piscium η .. | + 3.1980 | + 0.0142 | 0.000 | - 18.711 | + 0.176 | 0.00 | 458 |
| 46 | Taylor 496 ... | + 2.4769 | - 0.0141 | ... | - 18.665 | + 0.140 | ... | 462 |
| 47 | ... .. | + 2.2129 | - 0.0148 | ... | - 18.664 | + 0.126 | ... | ... |
| 48 | 102 Piscium π ... | + 3.1760 | + 0.0125 | - 0.007 | - 18.526 | + 0.185 | - 0.08 | 488 |
| 49 | Taylor 525 ... | + 2.2243 | - 0.0135 | ... | - 18.520 | + 0.133 | ... | 488 |
| 50 | ... .. | + 2.6225 | - 0.0101 | ... | - 18.477 | + 0.157 | ... | ... |
| 51 | Taylor 539 ... | + 2.2055 | - 0.0129 | ... | - 18.465 | + 0.133 | ... | 497 |
| 52 | α Eridani (<i>Achernar</i>). | + 2.2324 | - 0.0128 | + 0.008 | - 18.435 | + 0.137 | + 0.07 | 507 |
| 53 | 106 Piscium ν ... | + 3.1172 | + 0.0091 | - 0.004 | - 18.374 | + 0.191 | - 0.04 | 518 |
| 54 | Lacaille 507 ... | + 2.0600 | - 0.0099 | ... | - 18.276 | + 0.132 | ... | 531 |
| 55 | 110 Piscium σ ... | + 3.1551 | + 0.0111 | + 0.006 | - 18.235 | + 0.199 | - 0.01 | 527 |
| 56 | ... .. | + 2.0213 | - 0.0089 | ... | - 18.225 | + 0.131 | ... | ... |
| 57 | ... .. | + 2.1151 | - 0.0100 | ... | - 18.176 | + 0.138 | ... | ... |
| 58 | ... .. | + 2.6188 | - 0.0081 | ... | - 18.156 | + 0.171 | ... | ... |
| 59 | ... .. | + 2.0790 | - 0.0082 | ... | - 17.938 | + 0.144 | ... | ... |
| 60 | Lacaille 550 ... | + 2.5788 | - 0.0076 | ... | - 17.919 | + 0.177 | ... | ... |
| 61 | 6 Arietis β ... | + 3.2935 | + 0.0183 | + 0.002 | - 17.897 | + 0.226 | + 0.11 | 577 |
| 62 | ... .. | + 2.6241 | - 0.0008 | ... | - 17.815 | + 0.184 | ... | ... |
| 63 | ... .. | + 2.1456 | - 0.0077 | ... | - 17.691 | + 0.156 | ... | ... |
| 64 | ... .. | + 1.9124 | - 0.0040 | ... | - 17.664 | + 0.140 | ... | ... |
| 65 | ... .. | + 2.5279 | - 0.0065 | ... | - 17.531 | + 0.187 | ... | ... |
| 66 | ... .. | + 2.5379 | - 0.0064 | ... | - 17.530 | + 0.188 | ... | ... |
| 67 | 13 Arietis α ... | + 3.3529 | + 0.0203 | + 0.012 | - 17.382 | + 0.252 | + 0.15 | 643 |
| 68 | ... .. | + 1.3333 | - 0.0036 | ... | - 17.337 | + 0.151 | ... | ... |
| 69 | ... .. | + 1.7897 | + 0.0006 | ... | - 17.092 | + 0.144 | ... | ... |
| 70 | 21 Arietis ... | + 3.3912 | + 0.0215 | - 0.005 | - 16.999 | + 0.269 | + 0.07 | 696 |

52.—Proper motions from "Stone's Cape Catalogue."
70.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--|------------|--------------|-----------------------|----|----------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 71 | 67 Ceti | 5.5 | ... | 2 | 10 | 21.03 | 97 | 2 | 12.1 | 9 | 0.87 |
| 72 | 68 Ceti \circ Var. 1 (<i>Mira</i>) ... | 6.0 | 2 | 2 | 12 | 37.71 | 93 | 35 | 0.2 | 2 | 0.89 |
| 73 | ... .. | 9.0 | 2 | 2 | 12 | 45.40 | 93 | 34 | 46.7 | 2 | 0.93 |
| 74 | ... .. | 8.0 | 1 | 2 | 15 | 44.70 | 152 | 33 | 21.1 | 1 | 0.96 |
| 75 | ... .. | 8.5 | 2 | 2 | 17 | 49.30 | 151 | 2 | 20.2 | 2 | 0.92 |
| 76 | 73 Ceti ζ^2 | 4.4 | ... | 2 | 21 | 5.36 | 82 | 8 | 15.4 | 16 | 0.89 |
| 6.29 | 77 Lacaille 782 | 7.0 | 1 | 2 | 26 | 18.35.24 | 148 | 24 | 8.5 | 1 | 0.93 |
| 78 | ... .. | 8.5 | 3 | 2 | 27 | 30.97 | 147 | 11 | 24.2 | 3 | 0.93 |
| 79 | ... .. | 9.2 | 2 | 2 | 28 | 15.92 | 129 | 45 | 40.0 | 2 | 0.93 |
| 80 | ... .. | 9.7 | 1 | 2 | 30 | 51.00 | 147 | 34 | 6.1 | 1 | 0.87 |
| 81 | ... .. | 9.0 | 1 | 2 | 31 | 17.41 | 148 | 30 | 32.8 | 1 | 0.94 |
| 82 | ... .. | 9.6 | 2 | 2 | 31 | 20.61 | 151 | 38 | 36.5 | 2 | 0.93 |
| 83 | 86 Ceti γ | 3.6 | ... | 2 | 36 | 24.61 | 87 | 19 | 34.8 | 9 | 0.93 |
| 84 | 87 Ceti μ | 4.4 | ... | 2 | 37 | 45.29 | 80 | 26 | 57.0 | 2 | 0.78 |
| 85 | Lacaille 868 | 7.9 | 1 | 2 | 38 | 38.12 | 147 | 12 | 24.4 | 1 | 0.92 |
| 86 | Taylor 940 | 7.9 | 2 | 2 | 40 | 22.32 | 128 | 43 | 45.6 | 2 | 0.97 |
| 87 | ... .. | 9.6 | 3 | 2 | 41 | 47.29 | 151 | 1 | 56.1 | 3 | 0.94 |
| 88 | Taylor 969 | 7.2 | 2 | 2 | 45 | 47.49 | 74 | 3 | 41.5 | 2 | 0.93 |
| 89 | Taylor 978 | 6.9 | 2 | 2 | 47 | 26.42 | 147 | 44 | 27.2 | 2 | 0.94 |
| 90 | Lacaille 941 | 6.9 | 1 | 2 | 50 | 31.95 | 146 | 25 | 20.8 | 1 | 0.87 |
| 91 | Taylor 991 | 7.2 | 3 | 2 | 50 | 40.24 | 129 | 11 | 26.7 | 3 | 0.97 |
| 6.71 | 92 Lacaille 969 | 7.8 | 2 | 2 | 54 | 58.78.1 | 144 | 13 | 14.1 | 2 | 0.91 |
| 93 | 42 Ceti α (<i>Menkar</i>) | 2.7 | ... | 2 | 55 | 19.71 | 86 | 26 | 2.9 | 4 | 0.95 |
| 94 | 25 Persei ρ Var. 2 | 3.7 | ... | 2 | 56 | 39.76 | 51 | 40 | 39.7 | 1 | 0.93 |
| 95 | 26 Persei β Var. 1 (<i>Algol</i>). ... | 2.3 | ... | 2 | 59 | 31.29 | 49 | 33 | 33.2 | 2 | 0.90 |
| 96 | Taylor 1047 | 6.5 | 1 | 2 | 59 | 55.67 | 151 | 19 | 10.0 | 1 | 0.97 |
| 97 | ... .. | 8.9 | 1 | 2 | 59 | 57.96 | 130 | 37 | 40.3 | 1 | 0.93 |
| 98 | Taylor 1052 | 5.3 | ... | 3 | 0 | 29.28 | 150 | 15 | 19.1 | 1 | 0.02 |
| 99 | Taylor 1057 | 8.0 | 2 | 3 | 0 | 50.41 | 151 | 21 | 38.5 | 2 | 0.49 |
| 100 | R. P. L. 33 | 5.9 | ... | 3 | 1 | 20.76 | 5 | 34 | 6.0 | 1 | 0.95 |
| 101 | ... .. | 9.3 | 1 | 3 | 2 | 16.73 | 130 | 38 | 13.4 | 1 | 0.98 |
| 102 | 57 Arietis δ | 4.5 | ... | 3 | 4 | 1.65 | 70 | 46 | 43.7 | 6 | 0.94 |
| 103 | Taylor 1081 | 8.0 | 1 | 3 | 5 | 16.31 | 151 | 39 | 33.2 | 1 | 0.89 |
| 104 | ... .. | 9.0 | 1 | 3 | 6 | 15.83 | 128 | 31 | 22.9 | 1 | 0.97 |
| 105 | ... .. | 9.4 | 2 | 3 | 7 | 21.43 | 145 | 39 | 51.1 | 2 | 0.49 |

72.— \circ Ceti Var. 1 (*Mira*)—Period 331 days.—Range, 2nd to 10th magnitude.
 94.— ρ Persei Var. 2.—Changes irregularly from 3.5 to 4.3 magnitude.
 95.— β Persei Var. 1 (*Algol*).—Period 2.867 days.—Range, 2.5 to 4th magnitude.
 100.—Groombridge 595.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--------------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 71 | 67 Ceti ... | + 2.9832 | + 0.0049 | + 0.003 | " | " | " | 704 |
| 72 | 68 Ceti o Var. 1 (Mira.) | + 3.0263 | + 0.0064 | - 0.001 | - 16.897 | + 0.242 | + 0.14 | 720 |
| 73 | ... .. | + 3.0263 | + 0.0064 | ... | - 16.789 | + 0.248 | + 0.23 | ... |
| 74 | ... .. | + 1.6349 | + 0.0055 | ... | - 16.783 | + 0.249 | ... | ... |
| 75 | ... .. | + 1.7502 | + 0.0037 | ... | - 16.688 | + 0.140 | ... | ... |
| 76 | 73 Ceti 3 ^a ... | + 3.1787 | + 0.0117 | + 0.001 | - 16.536 | + 0.148 | ... | ... |
| 77 | Lacaille 782 ... | + 1.7770 | + 0.0026 | ... | - 16.374 | + 0.276 | + 0.02 | 760 |
| 78 | ... .. | + 1.8275 | + 0.0016 | ... | - 16.105 | + 0.161 | ... | ... |
| 79 | ... .. | + 2.4016 | - 0.0027 | ... | - 16.042 | + 0.167 | ... | ... |
| 80 | ... .. | + 1.7849 | + 0.0027 | ... | - 16.003 | + 0.218 | ... | ... |
| 81 | ... .. | + 1.7337 | + 0.0039 | ... | - 15.865 | + 0.166 | ... | ... |
| 82 | ... .. | + 1.5527 | + 0.0084 | ... | - 15.841 | + 0.162 | ... | ... |
| 83 | 86 Ceti γ ... | + 3.1114 | + 0.0094 | - 0.011 | - 15.839 | + 0.146 | ... | ... |
| 84 | 87 Ceti μ ... | + 3.2150 | + 0.0120 | + 0.017 | - 15.564 | + 0.294 | + 0.19 | 887 |
| 85 | Lacaille 868 ... | + 1.7478 | + 0.0040 | ... | - 15.489 | + 0.305 | + 0.07 | 845 |
| 86 | Taylor 940 ... | + 2.3814 | + 0.0015 | ... | - 15.442 | + 0.170 | ... | ... |
| 87 | ... .. | + 1.5053 | + 0.0099 | ... | - 15.342 | + 0.231 | ... | ... |
| 88 | Taylor 969 ... | + 3.3249 | + 0.0157 | ... | - 15.263 | + 0.149 | ... | ... |
| 89 | Taylor 978 ... | + 1.6585 | + 0.0062 | ... | - 15.032 | + 0.326 | ... | 892 |
| 90 | Lacaille 941 ... | + 1.7080 | + 0.0053 | ... | - 14.986 | + 0.168 | ... | 899 |
| 91 | Taylor 991 ... | + 2.3332 | - 0.0006 | ... | - 14.754 | + 0.175 | ... | ... |
| 92 | Lacaille 969 ... | + 1.7804 | + 0.0040 | ... | - 14.746 | + 0.227 | ... | 917 |
| 93 | 42 Ceti α (Menkar) ... | + 3.1297 | + 0.0098 | - 0.002 | - 14.488 | + 0.186 | ... | ... |
| 94 | 25 Persci ρ Var. 2 ... | + 3.8084 | + 0.0332 | + 0.010 | - 14.467 | + 0.323 | + 0.11 | 949 |
| 95 | 26 Persci β Var. 1 (Algol) ... | + 3.8762 | + 0.0356 | - 0.002 | - 14.386 | + 0.393 | + 0.11 | 953 |
| 96 | Taylor 1047 ... | + 1.3446 | + 0.0130 | ... | - 14.210 | + 0.405 | - 0.01 | 968 |
| 97 | ... .. | + 2.2611 | + 0.0002 | ... | - 14.185 | + 0.145 | ... | 968 |
| 98 | Taylor 1052 ... | + 1.4142 | + 0.0120 | ... | - 14.183 | + 0.239 | ... | ... |
| 99 | Taylor 1057 ... | + 1.3346 | + 0.0142 | ... | - 14.150 | + 0.152 | ... | 972 |
| 100 | R. P. L. 33 ... | + 12.8260 | + 1.5870 | ... | - 14.129 | + 0.144 | ... | 978 |
| 101 | ... .. | + 2.2527 | + 0.0004 | ... | - 14.097 | + 1.336 | + 0.12 | 960 |
| 102 | 57 Arietis δ ... | + 3.4074 | + 0.0171 | + 0.010 | - 14.089 | + 0.241 | ... | ... |
| 103 | Taylor 1081 ... | + 1.2794 | + 0.0156 | ... | - 13.929 | + 0.364 | 0.00 | 865 |
| 104 | ... .. | + 2.3691 | + 0.0006 | ... | - 13.851 | + 0.141 | ... | 862 |
| 105 | ... .. | + 1.6414 | + 0.0069 | ... | - 13.789 | + 0.250 | ... | ... |

+2.2991

76.—84.—100.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|----|----------------------------------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 106 | Taylor 1112 | 8.0 | 1 | 3 | 10 | 23.68 | 129 | 29 | 40.3 | 1 | 0.99 |
| 107 | Taylor 1113 | 8.9 | 1 | 3 | 10 | 24.90 | 131 | 43 | 29.5 | 1 | 0.96 |
| 108 | Taylor 1127 | 8.0 | 1 | 3 | 11 | 54.24 | 131 | 45 | 40.1 | 1 | 0.96 |
| 109 | ... .. | 9.3 | 1 | 3 | 12 | 29.94 | 130 | 9 | 53.0 | 1 | 0.98 |
| 110 | ... .. | 9.0 | 1 | 3 | 12 | 30.19 | 130 | 57 | 29.2 | 1 | 0.97 |
| 111 | ... .. | 8.5 | 1 | 3 | 12 | 40.75 | 129 | 27 | 1.9 | 1 | 0.99 |
| 112 | ... .. | 7.8 | 1 | 3 | 13 | 27.18 | 125 | 39 | 12.6 | 1 | 0.97 |
| 113 | 33 Persei <i>a</i> | 1.9 | ... | 3 | 14 | 50.42 | 40 | 36 | 54.8 | 1 | 0.99 |
| 114 | ... .. | 8.2 | 3 | 3 | 15 | 9.62 | 151 | 31 | 33.4 | 3 | 0.89 |
| 115 | ... .. | 9.3 | 1 | 3 | 15 | 30.03 | 125 | 40 | 46.2 | 1 | 0.97 |
| 116 | ... .. | 9.5 | 1 | 3 | 16 | 58.05 | 127 | 6 | 21.8 | 1 | 0.96 |
| 117 | ... .. | 8.8 | 1 | 3 | 17 | 26.79 | 130 | 44 | 59.6 | 1 | 0.97 |
| 118 | ... .. | 9.0 | 1 | 3 | 20 | 22.02 | 149 | 18 | 15.3 | 1 | 0.89 |
| 119 | R Persei Var. 3 | 9.0 | 1 | 3 | 21 | 35.53 | 54 | 47 | 24.8 | 1 | 0.96 |
| 120 | ... .. | 9.3 | 1 | 3 | 23 | 21.70 | 130 | 9 | 39.0 | 1 | 0.98 |
| 121 | 5 Tauri <i>f</i> | 4.3 | 2 | 3 | 23 | 31.82 | 77 | 31 | 16.4 | 2 | 0.78 |
| 122 | ... .. | 9.0 | 2 | 3 | 23 | 46.11 | 126 | 21 | 58.9 | 2 | 0.98 |
| 123 | ... .. | 8.5 | 1 | 3 | 24 | 56.51 | 129 | 1 | 6.5 | 1 | 0.97 |
| 124 | Lacaille 1150 | 7.0 | 1 | 3 | 28 | 30.98 | 152 | 27 | 40.0 | 1 | 0.02 |
| 125 | Lacaille 1149 | 7.0 | 1 | 3 | 28 | 41.15 | 150 | 18 | 32.0 | 1 | 0.02 |
| 126 | ... .. | 9.2 | 1 | 3 | 28 | 52.10 | 128 | 28 | 54.3 | 1 | 0.97 |
| 127 | ... .. | 7.0 | 1 | 3 | 30 | 17.03 | 151 | 50 | 23.7 | 1 | 0.96 |
| 128 | ... .. | 9.0 | 1 | 3 | 31 | 52.10 ^{1.88} | 129 | 49 | 26.0 | 1 | 0.98 |
| 129 | ... .. | 8.0 | 1 | 3 | 32 | 20.00 | 131 | 20 | 9.3 | 1 | 0.99 |
| 130 | Lacaille 1166 | 8.8 | 1 | 3 | 33 | 8.55 | 129 | 12 | 37.6 | 1 | 0.97 |
| 131 | ... .. | 8.2 | 1 | 3 | 33 | 25.55 | 127 | 42 | 33.9 | 1 | 0.99 |
| 132 | ... .. | 10.0 | 1 | 3 | 33 | 43.83 | 128 | 29 | 29.2 | 1 | 0.97 |
| 133 | ... .. | 8.6 | 1 | 3 | 35 | 23.18 | 150 | 12 | 42.5 | 1 | 0.03 |
| 134 | ... .. | 9.7 | 1 | 3 | 35 | 53.51 | 129 | 10 | 3.0 | 1 | 0.97 |
| 135 | ... .. | 8.0 | 1 | 3 | 37 | 2.65 | 148 | 26 | 55.2 | 1 | 0.79 |
| 136 | 25 Tauri <i>η</i> (<i>Alyone</i>) ... | 3.0 | ... | 3 | 39 | 34.91 | 66 | 18 | 31.6 | 11 | 0.75 |
| 137 | 30 Tauri <i>e</i> | 5.1 | ... | 3 | 40 | 53.73 | 79 | 16 | 5.7 | 1 | 0.71 |
| 138 | Lacaille 1242 | 7.2 | 1 | 3 | 41 | 49.31 | 147 | 4 | 42.1 | 1 | 0.92 |
| 139 | W. B. E. III. 860 | 8.3 | 2 | 3 | 45 | 29.06 | 76 | 1 | 4.7 | 2 | 0.98 |
| 140 | ... .. | 9.0 | 1 | 3 | 49 | 55.22 | 129 | 11 | 37.7 | 1 | 0.89 |

119.—R Persei Var. 3.—Period 209 days.—Range, 8.5 to 12.5 magnitude.
 139.—Comparison star for Asia in 1862.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------------|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 106 | Taylor 1112 ... | + 2.2584 | + 0.0009 | ... | - 13.523 | + 0.249 | ... | ... |
| 107 | Taylor 1113 ... | + 2.1916 | + 0.0011 | ... | - 13.522 | + 0.242 | ... | ... |
| 108 | Taylor 1127 ... | + 2.1853 | + 0.0012 | ... | - 13.426 | + 0.243 | ... | ... |
| 109 | ... .. | + 2.2318 | + 0.0012 | ... | - 13.387 | + 0.249 | ... | ... |
| 110 | ... .. | + 2.2080 | + 0.0011 | ... | - 13.387 | + 0.246 | ... | ... |
| 111 | ... .. | + 2.2523 | + 0.0011 | ... | - 13.376 | + 0.251 | ... | ... |
| 112 | ... .. | + 2.3553 | + 0.0011 | ... | - 13.325 | + 0.263 | ... | ... |
| 113 | 33 Persei α ... | + 4.2431 | + 0.0483 | + 0.002 | - 13.234 | + 0.472 | + 0.05 | 1043 |
| 114 | ... .. | + 1.2175 | + 0.0166 | ... | - 13.212 | + 0.140 | ... | ... |
| 115 | ... .. | + 2.3489 | + 0.0012 | ... | - 13.190 | + 0.264 | ... | ... |
| 116 | ... .. | + 2.3060 | + 0.0013 | ... | - 13.094 | + 0.261 | ... | ... |
| 117 | ... .. | + 2.1979 | + 0.0015 | ... | - 13.062 | + 0.249 | ... | ... |
| 118 | ... .. | + 1.3446 | + 0.0131 | ... | - 12.866 | + 0.156 | ... | ... |
| 119 | R Persei Var. 3 ... | + 3.7991 | + 0.0278 | ... | - 12.784 | + 0.482 | ... | ... |
| 120 | ... .. | + 2.1972 | + 0.0018 | ... | - 12.665 | + 0.254 | ... | ... |
| 121 | 5 Tauri f ... | + 3.3017 | + 0.0130 | + 0.002 | - 12.652 | + 0.379 | + 0.03 | 1087 |
| 122 | ... .. | + 2.3076 | + 0.0016 | ... | - 12.637 | + 0.266 | ... | ... |
| 123 | ... .. | + 2.2272 | + 0.0018 | ... | - 12.557 | + 0.258 | ... | ... |
| 124 | Lacaille 1150 ... | + 1.0480 | + 0.0203 | ... | - 12.311 | + 0.126 | ... | ... |
| 125 | Lacaille 1149 ... | + 1.2201 | + 0.0156 | ... | - 12.300 | + 0.146 | ... | ... |
| 126 | ... .. | + 2.2320 | + 0.0020 | ... | - 12.287 | + 0.262 | ... | ... |
| 127 | ... .. | + 1.0887 | + 0.0190 | ... | - 12.189 | + 0.131 | ... | ... |
| 128 | ... .. | + 2.1820 | + 0.0023 | ... | - 12.079 | + 0.259 | ... | ... |
| 129 | ... .. | + 2.1318 | + 0.0025 | ... | - 12.047 | + 0.250 | ... | ... |
| 130 | Lacaille 1166 ... | + 2.1976 | + 0.0023 | ... | - 11.989 | + 0.262 | ... | ... |
| 131 | ... .. | + 2.2126 | + 0.0021 | ... | - 11.970 | + 0.265 | ... | ... |
| 132 | ... .. | + 2.1132 | + 0.0022 | ... | - 11.948 | + 0.265 | ... | ... |
| 133 | ... .. | + 1.1863 | + 0.0159 | ... | - 11.832 | + 0.145 | ... | ... |
| 134 | ... .. | + 2.1912 | + 0.0024 | ... | - 11.796 | + 0.264 | ... | ... |
| 135 | ... .. | + 1.3048 | + 0.0131 | ... | - 11.714 | + 0.160 | ... | ... |
| 136 | 25 Tauri η (Alyone) ... | + 3.5520 | + 0.0177 | - 0.001 | - 11.533 | + 0.430 | + 0.06 | 1166 |
| 137 | 30 Tauri c ... | + 3.2803 | + 0.0115 | 0.000 | - 11.433 | + 0.398 | + 0.05 | 1174 |
| 138 | Lacaille 1242 ... | + 1.3712 | + 0.0114 | ... | - 11.372 | + 0.170 | ... | ... |
| 139 | W. B. E. III. 860 ... | + 3.3492 | + 0.0127 | ... | - 11.104 | + 0.412 | ... | ... |
| 140 | ... .. | + 2.1528 | + 0.0029 | ... | - 10.781 | + 0.270 | ... | ... |

+ 2.2191

121.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|-----------------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 141 | ... .. | 8.0 | 1 | 3 | 50 | 53.94 | 147 | 28 | 42.7 | 1 | 0.79 |
| 142 | 34 Eridani γ^1 ... | 8.0 | ... | 3 | 51 | 49.43 | 103 | 53 | 20.9 | 12 | 0.56 |
| 143 | 35 Tauri λ Var. 1... .. | 8.6 | ... | 3 | 53 | 18.77 | 77 | 53 | 16.6 | 2 | 0.45 |
| 144 | ... .. | 8.5 | 1 | 3 | 53 | 45.06 | 143 | 7 | 54.5 | 1 | 0.04 |
| 145 | ... .. | 9.1 | 1 | 3 | 54 | 48.00 | 129 | 10 | 20.6 | 1 | 0.89 |
| 146 | Taylor 1392 | 6.9 | 1 | 3 | 55 | 51.94 | 147 | 28 | 52.5 | 1 | 0.93 |
| 147 | Lalande 7581 | 8.2 | 1 | 3 | 58 | 23.91 | 74 | 51 | 50.8 | 1 | 0.02 |
| 148 | Lacaille 1359 | 8.5 | 2 | 4 | 0 | 4.86 | 147 | 49 | 36.4 | 2 | 0.02 |
| 149 | Lacaille 1375 | 8.1 | 2 | 4 | 2 | 58.03 | 148 | 50 | 17.8 | 2 | 0.03 |
| 150 | Lalande 7764 | 8.0 | 1 | 4 | 3 | 38.46 | 74 | 43 | 23.1 | 1 | 0.08 |
| 151 | ... .. | 9.5 | 1 | 4 | 3 | 46.18 | 146 | 55 | 55.9 | 1 | 0.89 |
| 152 | 37 Eridani | 5.8 | ... | 4 | 3 | 53.37 | 97 | 16 | 25.7 | 1 | 0.95 |
| 153 | 38 Eridani σ^1 | 4.1 | ... | 4 | 5 | 22.48 | 97 | 11 | 12.8 | 2 | 0.92 |
| 154 | ... .. | 8.1 | 1 | 4 | 9 | 52.86 | 129 | 18 | 24.7 | 1 | 0.01 |
| 155 | Taylor 1489 | 7.2 | 3 | 4 | 11 | 6.48 | 148 | 21 | 34.6 | 3 | 0.38 |
| 156 | 54 Tauri γ | 8.9 | ... | 4 | 12 | 13.73 | 74 | 41 | 47.2 | 1 | 0.04 |
| 157 | Lacaille 1418 | 7.5 | 2 | 4 | 12 | 31.61 | 143 | 39 | 17.3 | 2 | 0.49 |
| 158 | ... .. | 8.7 | 3 | 4 | 12 | 35.05 | 129 | 10 | 20.5 | 3 | 0.94 |
| 159 | ... .. | 8.3 | 2 | 4 | 13 | 58.02 | 70 | 51 | 2.3 | 2 | 0.01 |
| 160 | U Tauri Var. 7 | 9.9 | 1 | 4 | 14 | 4.25 | 70 | 30 | 15.3 | 1 | 0.04 |
| 161 | ... .. | 10.0 | 1 | 4 | 15 | 20.86 | 129 | 7 | 25.1 | 1 | 0.87 |
| 162 | ... .. | 8.0 | 1 | 4 | 16 | 49.23 | 149 | 3 | 59.5 | 1 | 0.87 |
| 163 | 74 Tauri ϵ | 8.7 | ... | 4 | 20 | 51.13 | 71 | 7 | 3.3 | 11 | 0.35 |
| 164 | Lacaille 1519 | 7.0 | 1 | 4 | 25 | 37.48 | 153 | 5 | 43.2 | 1 | 0.02 |
| 165 | Lacaille 1520 | 7.7 | 1 | 4 | 26 | 44.46 | 147 | 28 | 39.6 | 1 | 0.03 |
| 166 | ... .. | 9.3 | 1 | 4 | 27 | 15.77 | 150 | 33 | 35.1 | 1 | 0.95 |
| 167 | 87 Tauri α (Aldebaran) ... | 1.0 | ... | 4 | 28 | 17.47 | 73 | 45 | 40.0 | 12 | 0.38 |
| 168 | ... .. | 8.2 | 2 | 4 | 28 | 32.48 | 140 | 13 | 54.0 | 2 | 0.44 |
| 169 | R Reticuli Var. 1... .. | 9.0 | 7 | 4 | 32 | 10.38 | 153 | 18 | 20.9 | 7 | 0.31 |
| 170 | Lacaille 1551 | 6.0 | 1 | 4 | 32 | 11.35 | 153 | 5 | 52.9 | 1 | 0.06 |
| 171 | ... .. | 9.5 | 2 | 4 | 34 | 39.82 | 153 | 26 | 31.1 | 2 | 0.96 |
| 172 | 95 Tauri | 6.9 | 1 | 4 | 35 | 10.70 | 66 | 10 | 0.0 | 1 | 0.02 |
| 173 | Lacaille 1567 | 5.0 | 1 | 4 | 35 | 13.10 | 152 | 20 | 26.5 | 1 | 0.04 |
| 174 | Lacaille 1566 | 6.9 | 1 | 4 | 35 | 48.90 | 148 | 28 | 6.2 | 1 | 0.03 |
| 175 | Taylor 1663 | 7.5 | 3 | 4 | 36 | 55.13 | 138 | 47 | 48.8 | 3 | 0.02 |

143.— λ Tauri Var. 1.—Period 3.95 days.—Range, 3.5 to 4.3 magnitude.
 147.—150.—Comparison stars for Asia in 1862.
 160.—U Tauri Var. 7.—Period unknown—Range, 9th to 10.5 magnitude.
 169.—R Reticuli Var. 1.—Period 281 days.—Range, 7th to below 13th magnitude.
 170.—171.—173.—Stars for map of R Reticuli Var. 1.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|-------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 141 | ... | s | s | s | " | " | " | |
| 142 | 84 Eridani γ^1 | + 1.2991 | + 0.0124 | ... | - 10.709 | + 0.165 | ... | |
| 143 | 35 Tauri λ Var. 1 | + 2.7918 | + 0.0047 | + 0.002 | - 10.641 | + 0.951 | + 0.12 | 1284 |
| 144 | ... | + 3.3164 | + 0.0115 | - 0.002 | - 10.529 | + 0.416 | + 0.02 | 1241 |
| 145 | ... | + 1.5531 | + 0.0082 | ... | - 10.497 | + 0.198 | ... | |
| 146 | Taylor 1392 | + 2.1413 | + 0.0031 | ... | - 10.419 | + 0.271 | ... | |
| 147 | Lalande 7581 | + 1.2751 | + 0.0126 | ... | - 10.340 | + 0.164 | ... | 1255 |
| 148 | Lacaille 1359 | + 3.3810 | + 0.0124 | ... | - 10.148 | + 0.430 | ... | |
| 149 | Lacaille 1375 | + 1.2314 | + 0.0131 | ... | - 10.022 | + 0.160 | ... | |
| 150 | Lalande 7764 | + 1.1483 | + 0.0144 | ... | - 9.802 | + 0.149 | ... | |
| 151 | ... | + 3.3913 | + 0.0121 | ... | - 9.750 | + 0.436 | ... | |
| 152 | 37 Eridani | + 1.2778 | + 0.0290 | ... | - 9.740 | + 0.167 | ... | |
| 153 | 38 Eridani σ^1 | + 2.0230 | + 0.0058 | - 0.002 | - 9.732 | + 0.377 | + 0.04 | 1284 |
| 154 | ... | + 2.9241 | + 0.0058 | - 0.002 | - 9.617 | + 0.379 | - 0.07 | 1290 |
| 155 | Taylor 1489 | + 2.1016 | + 0.0035 | ... | - 9.270 | + 0.276 | ... | |
| 156 | 54 Tauri γ | + 1.1427 | + 0.0137 | .. | - 9.175 | + 0.152 | ... | 1325 |
| 157 | Lacaille 1418 | + 3.3932 | + 0.0115 | + 0.009 | - 9.087 | + 0.446 | + 0.03 | 1328 |
| 158 | ... | + 1.4513 | + 0.0088 | ... | - 9.064 | + 0.193 | ... | |
| 159 | ... | + 2.1002 | + 0.0035 | ... | - 9.059 | + 0.277 | ... | |
| 160 | U Tauri Var. 7 | + 3.4875 | + 0.0128 | ... | - 8.951 | + 0.459 | ... | |
| 161 | ... | + 3.4959 | + 0.0129 | ... | - 8.943 | + 0.460 | ... | |
| 162 | ... | + 2.0960 | + 0.0035 | ... | - 8.842 | + 0.279 | ... | |
| 163 | 74 Tauri ϵ | + 1.0634 | + 0.0146 | ... | - 8.727 | + 0.144 | ... | |
| 164 | Lacaille 1519 | + 3.4372 | + 0.0120 | + 0.005 | - 8.408 | + 0.466 | + 0.03 | 1376 |
| 165 | Lacaille 1520 | + 0.6576 | + 0.0212 | ... | - 8.027 | + 0.091 | ... | |
| 166 | ... | + 1.1466 | + 0.0122 | ... | - 7.937 | + 0.157 | ... | |
| 167 | 87 Tauri α (Aldobaran) | + 0.8945 | + 0.0162 | ... | - 7.895 | + 0.123 | ... | |
| 168 | ... | + 3.4307 | + 0.0105 | + 0.004 | - 7.818 | + 0.464 | + 0.17 | 1420 |
| 169 | R Reticuli Var. 1 | + 1.5918 | + 0.0037 | ... | - 7.792 | + 0.217 | ... | |
| 170 | Lacaille 1551 | + 0.6061 | + 0.0210 | ... | - 7.499 | + 0.085 | ... | |
| 171 | ... | + 0.6280 | + 0.0205 | ... | - 7.497 | + 0.088 | ... | |
| 172 | 95 Tauri | + 0.5802 | + 0.0209 | ... | - 7.297 | + 0.082 | ... | |
| 173 | Lacaille 1567 | + 3.6223 | + 0.0125 | + 0.004 | - 7.254 | + 0.495 | 0.00 | 1459 |
| 174 | Lacaille 1566 | + 0.6937 | + 0.0186 | ... | - 7.251 | + 0.097 | ... | |
| 175 | Taylor 1663 | + 1.0385 | + 0.0128 | ... | - 7.202 | + 0.144 | ... | |
| | | + 1.6443 | + 0.0059 | ... | - 7.112 | + 0.227 | ... | |

143.—Proper motions from "Greenwich Catalogue 1872."
172.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---------------------------------------|------------|--------------|-----------------------|-----------|-----------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 176 | ... .. | 9.6 | 2 | 4 | 39 | 15.49 | 153 | 15 | 34.4 | 2 | 0.52 |
| 177 | ... .. | 9.0 | 1 | 4 | 39 | 27.08 | 153 | 3 | 18.9 | 1 | 0.96 |
| 178 | ... .. | 9.5 | 2 | 4 | 43 | 26.68 | 130 | 40 | 53.5 | 2 | 0.04 |
| 179 | Lacaille 1629 | 6.4 | 1 | 4 | 43 | 44.51 | 153 | 23 | 14.6 | 1 | 0.01 |
| 180 | ... .. | 8.0 | 1 | 4 | 43 | 57.70 | 127 | 40 | 3.2 | 1 | 0.96 |
| 181 | Lacaille 1625 | 7.3 | 2 | 4 | 45 | 3.76 | 140 | 1 | 31.9 | 2 | 0.02 |
| 182 | ... .. | 9.0 | 1 | 4 | 45 | 34.95 | 129 | 24 | 45.1 | 1 | 0.02 |
| 183 | Lacaille 1649 | 6.9 | 2 | 4 | 46 | 55.68 | 150 | 29 | 19.9 | 2 | 0.95 |
| 184 | 3 Aurigæ ε | 2.7 | ... | 4 | 48 | 20.12 | 57 | 2 | 52.4 | 13 | 0.38 |
| 185 | Taylor 1764 | 6.3 | 2 | 4 | 50 | 27.62 | 129 | 50 | 38.8 | 2 | 0.95 |
| 186 | Taylor 1780 | 7.0 | 2 | 4 | 52 | 19.23 | 144 | 38 | 31.4 | 2 | 0.03 |
| 187 | R Leporis Var. 1 | 7.5 | 1 | 4 | 53 | 32.92 | 104 | 59 | 26.6 | 1 | 0.10 |
| 188 | Taylor 1797 | 7.0 | 1 | 4 | 54 | 54.20 | 143 | 16 | 39.5 | 1 | 0.07 |
| 189 | ... .. | 8.7 | 1 | 4 | 56 | 2.49 | 180 | 17 | 24.5 | 1 | 0.01 |
| 190 | Lacaille 1697 | 8.0 | 1 | 4 | 56 | 57.29 | 129 | 6 | 56.3 | 1 | 0.02 |
| 191 | 11 Orionis | 4.7 | ... | 4 | 56 | 58.29 | 74 | 47 | 3.9 | 2 | 0.04 |
| 192 | Taylor 1811 | 6.1 | 1 | 4 | 57 | 9.12 | 129 | 54 | 47.7 | 1 | 0.11 |
| 193 | Taylor 1814 | 9.2 | 2 | 4 | 57 | 48.47 | 143 | 41 | 40.3 | 2 | 0.95 |
| 194 | 2 Leporis ε | 3.3 | ... | 4 | 59 | 49.85 | 112 | 33 | 7.8 | 8 | 0.28 |
| 195 | ... .. | 7.9 | 1 | 5 | 0 | 5.21 | 135 | 23 | 41.6 | 1 | 0.02 |
| 196 | Taylor 1852 | 6.9 | 1 | 5 | 2 | 13.63 | 144 | 35 | 17.2 | 1 | 0.95 |
| 197 | Lacaille 1739 | 8.0 | 1 | 5 | 2 | 54.84 | 146 | 57 | 38.7 | 1 | 0.94 |
| 198 | ... .. | 9.5 | 1 | 5 | 4 | 39.64 | 135 | 34 | 26.2 | 1 | 0.07 |
| 199 | ... .. | 9.5 | 6 | 5 | 6 | 29.17 | 36 | 34 | 28.0 | 6 | 0.36 |
| 200 | R Aurigæ Var. 2 | 8.7 | 1 | 5 | 6 | 33.84 | 36 | 34 | 3.8 | 1 | 0.96 |
| 201 | 13 Aurigæ α (<i>Capella</i>) | 0.2 | ... | 5 | 6 | 52.11 | 44 | 8 | 28.6 | 3 | 0.07 |
| 202 | 19 Orionis β (<i>Rigel</i>) | 0.3 | ... | 5 | 8 | 8.81 | 98 | 21 | 29.8 | 4 | 0.04 |
| 203 | ... .. | 9.0 | 1 | 5 | 8 | 32.01 | 150 | 36 | 9.1 | 1 | 0.02 |
| 204 | ... .. | 9.2 | 1 | 5 | 10 | 37.65 | 121 | 19 | 24.4 | 1 | 0.08 |
| 205 | ... .. | 9.7 | 1 | 5 | 12 | 3.39 | 129 | 46 | 35.9 | 1 | 0.07 |
| 206 | ... .. | 9.6 | 3 | 5 | 13 | 46.50 | 75 | 11 | 34.1 | 3 | 0.04 |
| 207 | ... .. | 9.1 | 2 | 5 | 15 | 1.34 | 121 | 18 | 28.4 | 2 | 0.08 |
| 208 | Lacaille 1822 | 7.9 | 1 | 5 | 15 | 47.04 | 141 | 43 | 2.5 | 1 | 0.95 |
| 209 | ... .. | 9.2 | 1 | 5 | 16 | 12.49 | 131 | 48 | 7.8 | 1 | 0.07 |
| 210 | Lacaille 1824 | 7.4 | 1 | 5 | 17 | 4.44 | 129 | 37 | 50.4 | 1 | 0.12 |

187.—R Leporis Var 1.—Period 438 days.—Range, 6th to 9th magnitude.

200.—R Aurigæ Var. 2.—Period 465 days.—Range, 7th to 12.7 magnitude.

206.—Comparison star for Asia in 1866.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| | | <i>s</i> | <i>s</i> | <i>s</i> | " | " | " | |
| 176 | ... .. | + 0.5815 | + 0.0199 | ... | - 6.920 | + 0.083 | ... | ... |
| 177 | ... .. | + 0.6026 | + 0.0195 | ... | - 6.904 | + 0.085 | ... | ... |
| 178 | ... .. | + 1.9863 | + 0.0040 | ... | - 6.575 | + 0.277 | ... | ... |
| 179 | Lacaille 1629 | + 0.5409 | + 0.0197 | ... | - 6.550 | + 0.077 | ... | ... |
| 180 | ... .. | + 2.0962 | + 0.0036 | ... | - 6.538 | + 0.292 | ... | ... |
| 181 | Lacaille 1625 | + 1.5619 | + 0.0063 | ... | - 6.442 | + 0.219 | ... | ... |
| 182 | ... .. | + 2.0309 | + 0.0087 | ... | - 6.393 | + 0.284 | ... | ... |
| 183 | Lacaille 1649 | + 0.8291 | + 0.0143 | ... | - 6.287 | + 0.118 | ... | ... |
| 184 | 3 Aurigæ | + 3.8966 | + 0.0144 | - 0.003 | - 6.170 | + 0.544 | + 0.02 | 1520 |
| 185 | Taylor 1764 | + 2.0074 | + 0.0038 | ... | - 5.992 | + 0.282 | ... | 1533 |
| 186 | Taylor 1780 | + 1.2695 | + 0.0084 | ... | - 5.836 | + 0.180 | ... | ... |
| 187 | R Leporis Var. 1 | + 2.7287 | + 0.0038 | ... | - 5.734 | + 0.382 | ... | ... |
| 188 | Taylor 1797 | + 0.9959 | + 0.0111 | ... | - 5.620 | + 0.141 | ... | ... |
| 189 | ... .. | + 1.9825 | + 0.0038 | ... | - 5.524 | + 0.280 | ... | ... |
| 190 | Lacaille 1697 | + 2.0259 | + 0.0036 | ... | - 5.447 | + 0.286 | ... | ... |
| 191 | 11 Orionis | + 3.4221 | + 0.0079 | 0.000 | - 5.446 | + 0.482 | + 0.03 | 1557 |
| 192 | Taylor 1811 | + 1.9956 | + 0.0038 | ... | - 5.431 | + 0.282 | ... | 1561 |
| 193 | Taylor 1814 | + 0.9541 | + 0.0111 | ... | - 5.376 | + 0.136 | ... | ... |
| 194 | 2 Leporis | + 2.5358 | + 0.0033 | + 0.001 | - 5.205 | + 0.359 | + 0.08 | 1575 |
| 195 | ... .. | + 1.7627 | + 0.0046 | ... | - 5.133 | + 0.250 | ... | ... |
| 196 | Taylor 1852 | + 1.2510 | + 0.0077 | ... | - 5.002 | + 0.179 | ... | 1595 |
| 197 | Lacaille 1739 | + 1.0703 | + 0.0093 | ... | - 4.944 | + 0.155 | ... | ... |
| 198 | ... .. | + 1.7477 | + 0.0045 | ... | - 4.796 | + 0.250 | ... | ... |
| 199 | ... .. | + 4.8251 | + 0.0230 | ... | - 4.641 | + 0.687 | ... | ... |
| 200 | R Aurigæ Var. 2 | + 4.8256 | + 0.0230 | ... | - 4.634 | + 0.687 | ... | ... |
| 201 | 13 Aurigæ <i>a</i> (Capella) | + 4.4128 | + 0.0173 | + 0.003 | - 4.608 | + 0.629 | + 0.43 | 1613 |
| 202 | 19 Orionis <i>β</i> (Rigel) | + 2.8806 | + 0.0040 | - 0.001 | - 4.499 | + 0.412 | + 0.02 | 1623 |
| 203 | ... .. | + 0.7537 | + 0.0117 | ... | - 4.487 | + 0.110 | ... | ... |
| 204 | ... .. | + 3.2772 | + 0.0030 | ... | - 4.287 | + 0.326 | ... | ... |
| 205 | ... .. | + 1.9833 | + 0.0036 | ... | - 4.135 | + 0.285 | ... | ... |
| 206 | ... .. | + 3.4184 | + 0.0063 | ... | - 4.018 | + 0.490 | ... | ... |
| 207 | ... .. | + 2.2744 | + 0.0030 | ... | - 3.911 | + 0.328 | ... | ... |
| 208 | Lacaille 1822 | + 1.4095 | + 0.0057 | ... | - 3.845 | + 0.204 | ... | ... |
| 209 | ... .. | + 1.8984 | + 0.0037 | ... | - 3.810 | + 0.274 | ... | ... |
| 210 | Lacaille 1824 | + 1.9843 | + 0.0034 | ... | - 3.735 | + 0.236 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|----------------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 211 | ... .. | 7.0 | 1 | 5 | 17 | 39.32 | 153 | 7 | 11.2 | 1 | 0.07 |
| 212 | 112 Tauri β | 1.9 | ... | 5 | 17 | 53.15 | 61 | 30 | 30.9 | 12 | 0.08 |
| 213 | ... .. | 9.3 | 2 | 5 | 18 | 25.31 | 121 | 23 | 45.8 | 2 | 0.52 |
| 214 | R. P. L. 40 | 6.2 | ... | 5 | 19 | 40.94 | 4 | 52 | 53.2 | 2 | 0.74 |
| 215 | ... .. | 9.2 | 1 | 5 | 22 | 36.64 | 152 | 41 | 55.5 | 1 | 0.07 |
| 216 | ... .. | 7.1 | 1 | 5 | 23 | 31.99 | 151 | 13 | 17.3 | 1 | 0.10 |
| 217 | λ Doradus... | 6.0 | 1 | 5 | 24 | 23.14 | 149 | 1 | 33.1 | 1 | 0.06 |
| 218 | 119 Tauri ... | 4.6 | ... | 5 | 24 | 25.05 | 71 | 30 | 28.8 | 2 | 0.94 |
| 219 | δ Orionis δ Var. 1 | 2.4 | ... | 5 | 25 | 12.75 | 90 | 24 | 2.2 | 9 | 0.16 |
| 220 | ... .. | 9.5 | 1 | 5 | 26 | 12.32 | 121 | 24 | 17.1 | 1 | 0.08 |
| 221 | 11 Leporis α | 2.7 | ... | 5 | 26 | 51.82 | 107 | 55 | 12.1 | 5 | 0.24 |
| 222 | Taylor 2057 | 7.8 | 2 | 5 | 28 | 3.42 | 151 | 55 | 30.9 | 2 | 0.08 |
| 223 | Lalande 10532 | 8.2 | 1 | 5 | 29 | 19.54 | 78 | 15 | 4.2 | 1 | 0.09 |
| 224 | 46 Orionis ϵ | 1.8 | ... | 5 | 29 | 27.96 | 91 | 17 | 23.9 | 4 | 0.05 |
| 225 | 123 Tauri 3 | 3.0 | ... | 5 | 29 | 41.92 | 68 | 56 | 30.4 | 2 | 0.90 |
| 226 | Lalande 10607 | 7.0 | 3 | 5 | 31 | 27.86 | 68 | 18 | 56.6 | 3 | 0.02 |
| 227 | ... .. | 9.3 | 1 | 5 | 32 | 5.08 | 123 | 55 | 19.2 | 1 | 0.97 |
| 228 | ... .. | 8.8 | 3 | 5 | 32 | 14.75 | 123 | 54 | 10.7 | 3 | 0.37 |
| 229 | Lacaille 1949 | 6.5 | 1 | 5 | 32 | 16.38 | 154 | 18 | 59.9 | 1 | 0.04 |
| 230 | Lacaille 1916 | 7.0 | 2 | 5 | 32 | 29.28 | 121 | 8 | 33.2 | 2 | 0.52 |
| 231 | α Columbæ | 2.7 | ... | 5 | 34 | 50.10 | 124 | 8 | 49.4 | 8 | 0.06 |
| 232 | Taylor 2113 | 7.4 | 1 | 5 | 35 | 13.88 | 130 | 45 | 27.9 | 1 | 0.10 |
| 233 | Lalande 10849 | 8.0 | 3 | 5 | 37 | 54.54 | 68 | 19 | 38.5 | 3 | 0.07 |
| 234 | ... .. | 7.8 | 2 | 5 | 39 | 20.79 | 79 | 0 | 9.7 | 2 | 0.53 |
| 235 | Taylor 2145 | 6.5 | 1 | 5 | 39 | 54.82 | 135 | 53 | 43.0 | 1 | 0.07 |
| 236 | ... .. | 9.3 | 1 | 5 | 40 | 37.23 | 120 | 57 | 54.9 | 1 | 0.08 |
| 237 | W. B. E. V. 1011 | 8.5 | 1 | 5 | 40 | 38.99 | 78 | 57 | 37.6 | 1 | 0.37 |
| 238 | Taylor 2184 | 9.0 | 1 | 5 | 43 | 56.51 | 150 | 46 | 22.0 | 1 | 0.07 |
| 239 | ... .. | 9.3 | 1 | 5 | 44 | 49.03 | 137 | 10 | 16.1 | 1 | 0.07 |
| 240 | Lalande 11093 | 8.4 | 3 | 5 | 45 | 16.79 | 68 | 29 | 36.9 | 3 | 0.05 |
| 241 | Lacaille 2036 | 8.2 | 3 | 5 | 46 | 26.64 | 129 | 47 | 11.1 | 3 | 0.10 |
| 242 | 54 Orionis χ^1 | 4.6 | ... | 5 | 46 | 30.31 | 69 | 45 | 8.0 | 1 | 0.12 |
| 243 | ... .. | 8.0 | 1 | 5 | 47 | 6.61 | 135 | 46 | 48.5 | 1 | 0.10 |
| 244 | Lalande 11166 | 7.9 | 2 | 5 | 47 | 11.56 | 78 | 32 | 35.0 | 2 | 0.02 |
| 245 | 58 Orionis α Var. 2 | 0.9 | ... | 5 | 47 | 58.31 | 82 | 37 | 14.1 | 7 | 0.09 |

214.—Groombridge 944.

219.— δ Orionis Var. 1.—Supposed to vary irregularly from 2.3 to 2.7 magnitude.

223.—234.—237.—244.—Comparison star for Sappho in 1866.

226.—233.—240.—Comparison stars for Harmonia in 1861.

245.— α Orionis Var. 2. (*Betelgeuse*).—Irregularly variable from 0.9 to 1.5 magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 211 | ... .. | + 0.4794 | + 0.0128 | ... | - 3.684 | + 0.070 | ... | ... |
| 212 | 112 Tauri β ... | + 3.7855 | + 0.0082 | + 0.003 | - 3.665 | + 0.545 | + 0.20 | 1681 |
| 213 | ... .. | + 2.2668 | + 0.0030 | ... | - 3.619 | + 0.327 | ... | ... |
| 214 | R. P. L. 40 ... | + 18.4863 | + 0.6730 | ... | - 3.510 | + 2.657 | ... | 1682 |
| 215 | ... .. | + 0.5163 | + 0.0113 | ... | - 3.257 | + 0.075 | ... | ... |
| 216 | ... .. | + 0.6688 | + 0.0098 | ... | - 3.178 | + 0.097 | ... | ... |
| 217 | λ Doradus ... | + 0.8716 | + 0.0081 | ... | - 3.104 | + 0.127 | ... | 1729 |
| 218 | 119 Tauri ... | + 3.5138 | + 0.0057 | 0.000 | - 3.101 | + 0.507 | + 0.01 | 1726 |
| 219 | 34 Orionis δ Var 1 ... | + 3.0628 | + 0.0038 | + 0.001 | - 3.032 | + 0.443 | + 0.04 | 1780 |
| 220 | ... .. | + 2.2646 | + 0.0028 | ... | - 2.947 | + 0.328 | ... | ... |
| 221 | 11 Leporis α ... | + 2.6442 | + 0.0029 | + 0.001 | - 2.800 | + 0.383 | 0.00 | 1741 |
| 222 | Taylor 2057 ... | + 0.5898 | + 0.0096 | ... | - 2.790 | + 0.086 | ... | ... |
| 223 | Lalande 10532 ... | + 3.3476 | + 0.0045 | ... | - 2.676 | + 0.435 | ... | ... |
| 224 | 46 Orionis ϵ ... | + 3.0422 | + 0.0035 | - 0.002 | - 2.664 | + 0.441 | + 0.01 | 1765 |
| 225 | 123 Tauri ζ ... | + 3.5824 | + 0.0055 | 0.000 | - 2.644 | + 0.519 | + 0.05 | 1767 |
| 226 | Lalande 10007 ... | + 2.5996 | + 0.0053 | ... | - 2.549 | + 0.522 | ... | ... |
| 227 | ... .. | + 2.1796 | + 0.0029 | ... | - 2.437 | + 0.317 | ... | ... |
| 228 | ... .. | + 2.1802 | + 0.0029 | ... | - 2.424 | + 0.317 | ... | ... |
| 229 | Lacaille 1940 ... | + 0.3124 | + 0.0106 | ... | - 2.419 | + 0.046 | ... | 1790 |
| 230 | Lacaille 1916 ... | + 2.2699 | + 0.0027 | ... | - 2.402 | + 0.280 | ... | ... |
| 231 | α Columbae ... | + 2.1707 | + 0.0027 | + 0.008 | - 2.198 | + 0.816 | 0.00 | 1802 |
| 232 | Taylor 2113 ... | + 1.9265 | + 0.0031 | ... | - 2.163 | + 0.280 | ... | ... |
| 233 | Lalande 10849 ... | + 3.6010 | + 0.0016 | ... | - 1.930 | + 0.524 | ... | ... |
| 234 | ... .. | + 3.3309 | + 0.0036 | ... | - 1.805 | + 0.485 | ... | ... |
| 235 | Taylor 2145 ... | + 1.6980 | + 0.0033 | ... | - 1.756 | + 0.248 | ... | 1886 |
| 236 | ... .. | + 2.2727 | + 0.0026 | ... | - 1.694 | + 0.331 | ... | ... |
| 237 | W. B. E. V. 1011 ... | + 3.3320 | + 0.0034 | ... | - 1.691 | + 0.485 | ... | ... |
| 238 | Taylor 2184 ... | + 0.6885 | + 0.0059 | ... | - 1.404 | + 0.101 | ... | ... |
| 239 | ... .. | + 1.6330 | + 0.0033 | ... | - 1.327 | + 0.239 | ... | ... |
| 240 | Lalande 11098 ... | + 3.5978 | + 0.0036 | ... | - 1.287 | + 0.528 | ... | ... |
| 241 | Lacaille 2036 ... | + 1.9606 | + 0.0028 | ... | - 1.186 | + 0.266 | ... | ... |
| 242 | 54 Orionis χ^1 ... | + 3.5645 | + 0.0034 | - 0.016 | - 1.180 | + 0.520 | + 0.10 | 1876 |
| 243 | ... .. | + 1.7004 | + 0.0030 | ... | - 1.127 | + 0.248 | ... | ... |
| 244 | Lalande 11166 ... | + 3.3426 | + 0.0030 | ... | - 1.120 | + 0.487 | ... | ... |
| 245 | 58 Orionis α Var. 2 ... | + 3.2450 | + 0.0027 | + 0.001 | - 1.052 | + 0.478 | 0.00 | 1888 |

213.—242.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 246 | ... .. | 9.0 | 1 | 5 | 49 | 22.30 | 121 | 9 | 50.3 | 1 | 0.08 |
| 247 | ... .. | 9.8 | 1 | 5 | 50 | 19.08 | 137 | 10 | 17.9 | 1 | 0.07 |
| 248 | Lacaille 2073 | 7.0 | 1 | 5 | 50 | 35.57 | 137 | 12 | 36.7 | 1 | 0.06 |
| 249 | ... .. | 9.0 | 1 | 5 | 51 | 15.48 | 141 | 51 | 59.1 | 1 | 0.95 |
| 250 | Lalande 11293 | 7.4 | 4 | 5 | 51 | 40.58 | 68 | 24 | 34.8 | 4 | 0.29 |
| 251 | ... .. | 8.3 | 1 | 5 | 53 | 7.51 | 130 | 24 | 57.2 | 1 | 0.07 |
| 252 | ... .. | 9.5 | ... | 5 | 54 | 39.70 | 137 | 45 | 14.2 | 1 | 0.07 |
| 253 | ... .. | 9.6 | 1 | 5 | 54 | 53.65 | 121 | 30 | 57.8 | 1 | 0.08 |
| 254 | Lalande 11455 | 7.4 | 2 | 5 | 55 | 59.42 | 78 | 19 | 12.1 | 2 | 0.05 |
| 255 | ... .. | 9.2 | 1 | 5 | 57 | 4.39 | 136 | 1 | 0.7 | 1 | 0.06 |
| 256 | Taylor 2301 | 7.0 | 1 | 5 | 58 | 32.71 | 148 | 6 | 18.3 | 1 | 0.10 |
| 257 | Taylor 2310 | 6.7 | 2 | 5 | 59 | 39.88 | 150 | 29 | 6.7 | 2 | 0.10 |
| 258 | 67 Orionis ν | 4.4 | ... | 5 | 59 | 58.69 | 75 | 13 | 7.6 | 9 | 0.08 |
| 259 | ... .. | 9.8 | 1 | 6 | 0 | 5.40 | 121 | 30 | 53.3 | 1 | 0.08 |
| 260 | Taylor 2321 | 6.9 | 1 | 6 | 0 | 51.72 | 141 | 5 | 27.0 | 1 | 0.95 |
| 261 | ... .. | 7.0 | 1 | 6 | 0 | 55.69 | 137 | 28 | 33.1 | 1 | 0.10 |
| 262 | Lalande 11732 | 8.0 | 2 | 6 | 3 | 32.74 | 77 | 58 | 54.1 | 2 | 0.09 |
| 263 | ... .. | 9.2 | 1 | 6 | 3 | 44.89 | 129 | 58 | 12.0 | 1 | 0.99 |
| 264 | ... .. | 8.1 | 1 | 6 | 5 | 47.78 | 77 | 51 | 30.8 | 1 | 0.01 |
| 265 | ... .. | 9.0 | 1 | 6 | 6 | 33.10 | 121 | 29 | 26.3 | 1 | 0.08 |
| 266 | 7 Geminorum η Var. 6 | 3.5 | ... | 6 | 6 | 50.90 | 67 | 27 | 29.2 | 2 | 0.05 |
| 267 | ... .. | 9.7 | 1 | 6 | 7 | 29.89 | 151 | 18 | 28.9 | 1 | 0.07 |
| 268 | ... .. | 9.5 | 1 | 6 | 7 | 45.69 | 137 | 6 | 25.1 | 1 | 0.06 |
| 269 | ... .. | 8.1 | 2 | 6 | 8 | 55.50 | 131 | 54 | 49.1 | 2 | 0.09 |
| 270 | ... .. | 9.2 | 2 | 6 | 9 | 32.89 | 131 | 50 | 55.0 | 2 | 0.02 |
| 271 | ... .. | 7.6 | 1 | 6 | 11 | 4.98 | 149 | 53 | 54.8 | 1 | 0.02 |
| 272 | ... .. | 8.8 | 1 | 6 | 11 | 50.21 | 121 | 31 | 31.1 | 1 | 0.08 |
| 273 | Lalande 12053 | 8.0 | 1 | 6 | 12 | 34.79 | 68 | 51 | 18.8 | 1 | 0.09 |
| 274 | Lalande 12094 | 9.3 | 1 | 6 | 13 | 45.87 | 68 | 42 | 4.8 | 1 | 0.08 |
| 275 | Lalande 12120 | 7.3 | 2 | 6 | 14 | 15.82 | 77 | 4 | 48.2 | 2 | 0.12 |
| 276 | 13 Geminorum μ | 3.2 | ... | 6 | 14 | 54.82 | 67 | 25 | 18.2 | 8 | 0.30 |
| 277 | Lalande 12155 | 7.1 | 2 | 6 | 15 | 8.62 | 77 | 22 | 3.8 | 2 | 0.49 |
| 278 | Taylor 2474 | 6.3 | 2 | 6 | 18 | 15.93 | 121 | 43 | 26.4 | 2 | 0.09 |
| 279 | Lacaille 2286 | 7.0 | 1 | 6 | 18 | 49.51 | 153 | 45 | 51.0 | 1 | 0.03 |
| 280 | ... .. | 8.7 | 1 | 6 | 19 | 51.11 | 65 | 39 | 59.9 | 1 | 0.05 |

250.—254.—262.—264.—275.—277.—Comparison stars for Sappho in 1865.

266.— η Geminorum Var. 6.—Period 229 days.—Range, 3rd to 4th magnitude.

273.—274.—Comparison stars for Ariadne in 1866.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|----------------------------|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 246 | ... | + 2.2643 | + 0.0024 | ... | - 0.930 | + 0.380 | ... | ... |
| 247 | ... | + 1.6311 | + 0.0030 | ... | - 0.848 | + 0.238 | ... | ... |
| 248 | Lacaille 2073 | + 1.6291 | + 0.0030 | ... | - 0.823 | + 0.237 | ... | ... |
| 249 | ... | + 1.3701 | + 0.0033 | ... | - 0.765 | + 0.200 | ... | ... |
| 250 | Lalande 11293 | + 3.6008 | + 0.0028 | ... | - 0.728 | + 0.525 | ... | ... |
| 251 | ... | + 1.9342 | + 0.0026 | ... | - 0.602 | + 0.282 | ... | ... |
| 252 | ... | + 1.6005 | + 0.0028 | ... | - 0.467 | + 0.233 | ... | ... |
| 253 | ... | + 2.2523 | + 0.0024 | ... | - 0.447 | + 0.329 | ... | ... |
| 254 | Lalande 11455 | + 3.3484 | + 0.0021 | ... | - 0.350 | + 0.488 | ... | ... |
| 255 | ... | + 1.0870 | + 0.0027 | ... | - 0.256 | + 0.246 | ... | ... |
| 256 | Taylor 2301 | + 0.9236 | + 0.0030 | ... | - 0.127 | + 0.185 | ... | 1954 |
| 257 | Taylor 2310 | + 0.7105 | + 0.0030 | ... | - 0.030 | + 0.104 | ... | ... |
| 258 | 67 Orionis | + 3.4249 | + 0.0017 | + 0.001 | - 0.002 | + 0.500 | + 0.02 | 1958 |
| 259 | ... | + 2.2522 | + 0.0023 | ... | + 0.008 | + 0.329 | ... | ... |
| 260 | Taylor 2321 | + 1.4156 | + 0.0026 | ... | + 0.076 | + 0.207 | ... | ... |
| 261 | ... | + 1.6143 | + 0.0024 | ... | + 0.081 | + 0.236 | ... | ... |
| 262 | Lalande 11732 | + 3.3567 | + 0.0015 | ... | + 0.310 | + 0.490 | ... | ... |
| 263 | ... | + 1.9516 | + 0.0023 | ... | + 0.329 | + 0.285 | ... | ... |
| 264 | ... | + 3.3597 | + 0.0013 | ... | + 0.506 | + 0.490 | ... | ... |
| 265 | ... | + 2.2533 | + 0.0022 | ... | + 0.573 | + 0.329 | ... | ... |
| 266 | 7 Geminorum η Var. G. | + 3.6267 | + 0.0007 | - 0.007 | + 0.600 | + 0.529 | + 0.02 | 2002 |
| 267 | ... | + 0.6305 | + 0.0016 | ... | + 0.656 | + 0.092 | ... | ... |
| 268 | ... | + 1.6338 | + 0.0022 | ... | + 0.679 | + 0.238 | ... | ... |
| 269 | ... | + 1.8729 | + 0.0021 | ... | + 0.780 | + 0.273 | ... | ... |
| 270 | ... | + 1.8757 | + 0.0021 | ... | + 0.836 | + 0.273 | ... | ... |
| 271 | ... | + 0.7686 | + 0.0010 | ... | + 0.969 | + 0.112 | ... | ... |
| 272 | ... | + 2.2530 | + 0.0021 | ... | + 1.035 | + 0.328 | ... | ... |
| 273 | Lalande 12053 | + 3.5884 | + 0.0002 | ... | + 1.100 | + 0.528 | ... | ... |
| 274 | Lalande 12094 | + 3.5924 | 0.0000 | ... | + 1.197 | + 0.522 | ... | ... |
| 275 | Lalande 12120 | + 3.3782 | + 0.0005 | ... | + 1.247 | + 0.467 | ... | ... |
| 276 | 13 Geminorum μ | + 3.6268 | - 0.0003 | + 0.005 | + 1.304 | + 0.527 | + 0.14 | 2047 |
| 277 | Lalande 12155 | + 3.3711 | + 0.0004 | ... | + 1.324 | + 0.400 | ... | ... |
| 278 | Taylor 2474 | + 2.2481 | + 0.0020 | ... | + 1.596 | + 0.326 | ... | 2073 |
| 279 | Lacaille 2286 | + 0.3686 | - 0.0017 | ... | + 1.645 | + 0.058 | ... | 2078 |
| 280 | ... | + 3.6745 | - 0.0011 | ... | + 1.735 | + 0.588 | ... | ... |

258.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|----|-----------------|----------------------|----|------|---------------|-------------------|
| | | | | h | m | s | ° | ' | " | | |
| 281 | α Argus (<i>Canopus</i>) ... | 0.4 | ... | 6 | 21 | 0.07 | 142 | 37 | 26.5 | 2 | 0.55 |
| 282 | ... .. | 9.0 | 1 | 6 | 22 | 2.33 | 129 | 36 | 37.1 | 1 | 0.01 |
| 283 | Lacaille 2321 ... | 7.0 | 1 | 6 | 23 | 30.63 | 153 | 20 | 55.6 | 1 | 0.94 |
| 284 | Taylor 2524 ... | 7.7 | 1 | 6 | 23 | 32.93 | 131 | 3 | 10.7 | 1 | 0.09 |
| 285 | Taylor 2529 ... | 7.0 | 2 | 6 | 24 | 27.07 | 130 | 59 | 24.2 | 2 | 0.11 |
| 286 | Taylor 2541 ... | 6.0 | 1 | 6 | 24 | 58.20 | 147 | 55 | 6.7 | 1 | 0.12 |
| 287 | ... .. | 9.2 | 1 | 6 | 27 | 34.43 | 128 | 46 | 6.1 | 1 | 0.06 |
| 288 | ... .. | 9.5 | 1 | 6 | 27 | 51.56 | 131 | 5 | 25.5 | 1 | 0.96 |
| 289 | ... .. | 6.6 | 2 | 6 | 28 | 29.22 | 122 | 7 | 37.9 | 2 | 0.03 |
| 290 | ... .. | 8.0 | 1 | 6 | 28 | 41.14 | 151 | 10 | 10.6 | 1 | 0.10 |
| 291 | Taylor 2589 ... | 6.9 | 1 | 6 | 29 | 51.53 | 151 | 46 | 57.0 | 1 | 0.12 |
| 292 | 24 Geminorum γ ... | 2.0 | ... | 6 | 30 | 1.71 | 73 | 29 | 25.2 | 6 | 0.10 |
| 293 | ... .. | 8.9 | 1 | 6 | 30 | 48.10 | 130 | 55 | 23.0 | 1 | 0.17 |
| 294 | ... .. | 9.5 | 1 | 6 | 31 | 7.71 | 122 | 6 | 52.2 | 1 | 0.08 |
| 295 | ... .. | 8.0 | 1 | 6 | 31 | 32.56 | 130 | 56 | 52.6 | 1 | 0.01 |
| 296 | R Monocerotis Var. 1 ... | 10.3 | 1 | 6 | 31 | 54.16 | 81 | 8 | 53.5 | 1 | 0.15 |
| 297 | ... .. | 8.9 | 1 | 6 | 33 | 59.67 | 130 | 54 | 26.9 | 1 | 0.06 |
| 298 | ... .. | 7.9 | 1 | 6 | 34 | 36.46 | 130 | 28 | 6.4 | 1 | 0.01 |
| 299 | 27 Geminorum ϵ ... | 3.2 | ... | 6 | 35 | 44.92 | 64 | 44 | 27.2 | 8 | 0.11 |
| 300 | ... .. | 8.0 | 1 | 6 | 35 | 53.12 | 130 | 38 | 13.7 | 1 | 0.03 |
| 301 | 51 Cephei (<i>Hav.</i>) ... | 5.3 | ... | 6 | 37 | 3.00 | 2 | 45 | 28.4 | 10 | 0.25 |
| 302 | 31 Geminorum ξ ... | 3.4 | ... | 6 | 37 | 49.35 | 76 | 57 | 50.8 | 1 | 0.87 |
| 303 | Lacaille 2451 ... | 8.2 | 1 | 6 | 38 | 11.29 | 155 | 57 | 53.7 | 1 | 0.05 |
| 304 | 9 Canis Majoris α (<i>Sirius</i>). - | 1.4 | ... | 6 | 39 | 17.06 | 106 | 32 | 10.5 | 2 | 0.05 |
| 305 | ... .. | 9.0 | 1 | 6 | 40 | 30.52 | 154 | 13 | 40.2 | 1 | 0.07 |
| 306 | ... .. | 8.6 | 2 | 6 | 42 | 29.38 | 130 | 57 | 9.1 | 2 | 0.12 |
| 307 | ... .. | 9.3 | 1 | 6 | 42 | 43.10 | 130 | 58 | 16.2 | 1 | 0.07 |
| 308 | ... .. | 7.6 | 3 | 6 | 43 | 46.98 | 128 | 30 | 35.8 | 3 | 0.17 |
| 309 | ... .. | 9.5 | 1 | 6 | 45 | 5.62 | 106 | 32 | 56.5 | 1 | 0.06 |
| 310 | Lalande 13279 ... | 7.9 | 2 | 6 | 46 | 36.15 | 65 | 35 | 20.7 | 3 | 0.05 |
| 311 | Lalande 13313 ... | 8.5 | 3 | 6 | 47 | 31.01 | 65 | 49 | 37.9 | 3 | 0.37 |
| 312 | ... .. | 8.2 | 1 | 6 | 48 | 34.87 | 128 | 48 | 36.5 | 1 | 0.15 |
| 313 | 39 Geminorum ... | 6.7 | ... | 6 | 50 | 35.52 | 63 | 44 | 52.1 | 5 | 0.08 |
| 314 | Lacaille 2538 ... | 7.1 | 2 | 6 | 51 | 25.21 | 114 | 47 | 47.0 | 2 | 0.10 |
| 315 | ... .. | 9.5 | 1 | 6 | 52 | 48.96 | 152 | 54 | 32.7 | 1 | 0.06 |

296.—R Monocerotis Var. 1.—Irregularly variable from 9.5 to 11.5 magnitude.

310.—311.—Comparison stars for Isis in 1861.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 281 | α Argus (<i>Canopus</i>)... | + 1.3292 | + 0.0010 | 0.000 | + 1.836 | + 0.192 | 0.00 | 2096 |
| 282 | ... .. | + 1.9708 | + 0.0018 | ... | + 1.926 | + 0.285 | ... | ... |
| 283 | Lacaille 2321 ... | + 0.4222 | - 0.0028 | ... | + 2.054 | + 0.060 | ... | ... |
| 284 | Taylor 2524 ... | + 1.9139 | + 0.0018 | ... | + 2.058 | + 0.277 | ... | ... |
| 285 | Taylor 2529 ... | + 1.9168 | + 0.0017 | ... | + 2.136 | + 0.277 | ... | 2121 |
| 286 | Taylor 2511 ... | + 0.9520 | - 0.0006 | ... | + 2.180 | + 0.187 | ... | 2124 |
| 287 | ... .. | + 2.0061 | + 0.0018 | ... | + 2.407 | + 0.290 | ... | ... |
| 288 | ... .. | + 1.9148 | + 0.0016 | ... | + 2.432 | + 0.276 | ... | ... |
| 289 | ... .. | + 2.2389 | + 0.0018 | ... | + 2.486 | + 0.323 | ... | ... |
| 290 | ... .. | + 0.6623 | - 0.0025 | ... | + 2.504 | + 0.095 | ... | ... |
| 291 | Taylor 2580 ... | + 0.6016 | - 0.0031 | ... | + 2.606 | + 0.086 | ... | 2166 |
| 292 | β Geminorum γ ... | + 3.4649 | - 0.0015 | + 0.001 | + 2.620 | + 0.500 | + 0.04 | 2168 |
| 293 | ... .. | + 1.9236 | + 0.0016 | ... | + 2.687 | + 0.277 | ... | ... |
| 294 | ... .. | + 2.2406 | + 0.0018 | ... | + 2.717 | + 0.823 | ... | ... |
| 295 | ... .. | + 1.9230 | + 0.0015 | ... | + 2.752 | + 0.277 | ... | ... |
| 296 | R Monocrotis Var. 1. | + 3.2783 | - 0.0007 | ... | + 2.783 | + 0.473 | ... | ... |
| 297 | ... .. | + 1.9264 | + 0.0015 | ... | + 2.964 | + 0.277 | ... | ... |
| 298 | ... .. | + 1.9445 | + 0.0015 | ... | + 3.017 | + 0.279 | ... | ... |
| 299 | δ Geminorum ϵ ... | + 3.6952 | - 0.0035 | 0.000 | + 3.116 | + 0.531 | + 0.02 | 2194 |
| 300 | ... .. | + 1.9387 | + 0.0014 | ... | + 3.128 | + 0.278 | ... | ... |
| 301 | ζ Cephei (<i>Hec.</i>) ... | + 30.4626 | - 1.8975 | - 0.027 | + 3.288 | + 4.884 | + 0.08 | 2157 |
| 302 | η Geminorum ξ ... | + 3.3774 | - 0.0017 | - 0.007 | + 3.295 | + 0.435 | + 0.22 | 2206 |
| 303 | Lacaille 2451 ... | + 0.1157 | - 0.0002 | ... | + 3.326 | + 0.016 | ... | ... |
| 304 | θ Canis Maj. α (<i>Sirius</i>) | + 2.6808 | + 0.0010 | - 0.035 | + 3.420 | + 0.884 | + 1.24 | 2218 |
| 305 | ... .. | + 0.3161 | - 0.0076 | ... | + 3.526 | + 0.048 | ... | ... |
| 306 | ... .. | + 1.9317 | + 0.0013 | ... | + 3.607 | + 0.275 | ... | ... |
| 307 | ... .. | + 1.9312 | + 0.0013 | ... | + 3.717 | + 0.275 | ... | ... |
| 308 | ... .. | + 2.0277 | + 0.0013 | ... | + 3.808 | + 0.288 | ... | ... |
| 309 | ... .. | + 2.6825 | + 0.0009 | ... | + 3.921 | + 0.382 | ... | ... |
| 310 | Lalande 13279 ... | + 3.6663 | - 0.0048 | ... | + 4.050 | + 0.522 | ... | ... |
| 311 | Lalande 13313 ... | + 3.6593 | - 0.0048 | ... | + 4.128 | + 0.521 | ... | ... |
| 312 | ... .. | + 2.0208 | + 0.0013 | ... | + 4.220 | + 0.286 | ... | ... |
| 313 | ζ Geminorum ... | + 3.7155 | - 0.0058 | - 0.009 | + 4.391 | + 0.527 | - 0.10 | 2275 |
| 314 | Lacaille 2538 ... | + 2.4609 | + 0.0013 | ... | + 4.482 | + 0.349 | ... | 2284 |
| 315 | ... .. | + 0.5275 | - 0.0086 | ... | + 4.581 | + 0.078 | ... | ... |

281.—Proper motions from "Stone's Cape Catalogue."

301.—302.—313.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--|------------|--------------|-----------------------|-----------|------------------|----------------------|-------------------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 316 | 21 Canis Majoris ϵ ... | 1.5 | ... | 6 | 53 | 23.89 | 118 | 47 | 35.9 | 4 | 0.11 |
| 317 | Taylor 2805 ... | 8.0 | 1 | 6 | 56 | 11.99 | 69 | 12 | 42.8 | 1 | 0.03 |
| 318 | 48 Geminorum 3 ^a Var. 1... .. | 4.0 | ... | 6 | 56 | 12.94 | 69 | 14 | 16.0 | 2 | 0.46 |
| 319 | ... .. | 9.5 | 1 | 6 | 56 | 27.29 | 129 | 17 | 33.8 | 1 | 0.06 |
| 320 | Taylor 2825 ... | 9.0 | 1 | 6 | 56 | 54.09 | 150 | 54 | 54.8 | 1 | 0.04 |
| 321 | 23 Canis Majoris γ ... | 4.1 | ... | 6 | 57 | 44.44 | 105 | 26 | 20.8 | 5 | 0.27 |
| 322 | Lalande 18707 ... | 8.0 | 3 | 6 | 58 | 17.04 | 67 | 6 | 54.1 | 3 | 0.10 |
| 323 | W. B. N. VI. 1762 ... | 9.4 | 3 | 6 | 58 | 36.42 | 70 | 55 | 5.3 | 3 | 0.09 |
| 324 | Taylor 2840 ... | 8.1 | 2 | 6 | 59 | 5.32 | 150 | 57 | 6.9 | 2 | 0.17 |
| 325 | 47 Geminorum ... | 5.5 | ... | 7 | 3 | 7.99 | 62 | 55 | 41.5 | 12 | 0.09 |
| 326 | ... .. | 9.5 | 1 | 7 | 5 | 4.24 | 153 | 52 | 24.4 | 1 | 0.15 |
| 327 | Taylor 2899 ... | 8.5 | 2 | 7 | 5 | 53.62 | 130 | 9 | 6.3 | 2 | 0.16 |
| 328 | ... .. | 8.0 | 1 | 7 | 8 | 11.34 | 152 | 5 | 19.0 | 1 | 0.17 |
| 329 | ... .. | 8.9 | 1 | 7 | 8 | 59.68 | 130 | 17 | 37.4 | 1 | 0.11 |
| 330 | 55 Geminorum δ ... | 3.6 | ... | 7 | 12 | 10.67 | 67 | 46 | 33.6 | 14 | 0.23 |
| 331 | ... .. | 8.0 | 1 | 7 | 12 | 37.96 | 152 | 48 | 14.7 | 1 | 0.20 |
| 332 | 57 Geminorum A ... | 5.0 | ... | 7 | 15 | 21.84 | 64 | 41 | 50.4 | 15 | 0.05 |
| 333 | Taylor 3005 ... | 8.0 | 1 | 7 | 15 | 31.98 | 140 | 1 | 14.7 | 1 | 0.16 |
| 334 | Lacaille 2805 ... | 7.8 | 1 | 7 | 17 | 23.04 | 153 | 8 | 28.1 | 1 | 0.12 |
| 335 | ... .. | 9.0 | 1 | 7 | 17 | 43.06 | 129 | 46 | 30.4 | 1 | 0.17 |
| 336 | ... .. | 9.0 | 1 | 7 | 18 | 10.22 | 129 | 42 | 54.3 | 1 | 0.17 |
| 337 | ... .. | 10.0 | 2 | 7 | 18 | 57.24 | 69 | 15 | 47.5 | 2 | 0.06 |
| 338 | Lacaille 2807 ... | 7.8 | 1 | 7 | 19 | 36.98 | 142 | 15 | 44.2 | 1 | 0.18 |
| 339 | ... .. | 9.0 | 1 | 7 | 19 | 42.63 | 123 | 8 | 20.2 | 1 | 0.15 |
| 340 | ... .. | 9.5 | 1 | 7 | 19 | 51.16 | 153 | 35 | 56.8 | 1 | 0.20 |
| 341 | ... .. | 7.9 | 1 | 7 | 25 | 32.94 | 129 | 18 | 27.7 | 1 | 0.18 |
| 342 | 68 Geminorum ... | 5.0 | ... | 7 | 26 | 0.87 | 73 | 53 | 26.9 | 2 | 0.95 |
| 343 | 66 Geminorum α^2 (Castor) ... | 1.6 | ... | 7 | 26 | 6.63 | 57 | 49 | 23.8 | 12 | 0.21 |
| 344 | 69 Geminorum ν ... | 4.2 | ... | 7 | 27 | 43.42 | 62 | 48 | 42.5 | 4 | 0.05 |
| 345 | ... .. | 7.9 | 1 | 7 | 30 | 41.50 | 121 | 54 | 50.5 | 1 | 0.19 |
| 346 | Taylor 3133 ... | 6.7 | 2 | 7 | 31 | 9.67 | 65 | 28 | 44.4 | 2 | 0.01 |
| 347 | ... .. | 8.7 | 1 | 7 | 31 | 10.92 | 131 | 10 | 58.2 | 1 | 0.18 |
| 348 | 74 Geminorum f ... | 5.2 | ... | 7 | 31 | 47.76 | 72 | 6 52.3 | 1 | 0.20 | |
| 349 | 10 Canis Min. α (Procyon) ... | 0.5 | ... | 7 | 32 | 20.28 | 84 | 26 | 13.0 | 16 | 0.18 |
| 350 | ... .. | 9.9 | 2 | 7 | 34 | 14.55 | 68 | 9 | 14.1 | 2 | 0.15 |

318.—3 Geminorum Var. 1.—Period 10.16 days.—Range, 3.7 to 4.5 magnitude.

323.—Comparison star for Hestia in 1867.

350.—Observed by mistake for Thétis.

152.

1 32.5

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 316 | 21 Canis Majoris ϵ ... | + 2.3571 | + 0.0013 | 0.000 | + 4.630 | + 0.332 | + 0.02 | 2293 |
| 317 | Taylor 2805 ... | + 3.5045 | - 0.0050 | ... | + 4.869 | + 0.502 | ... | ... |
| 318 | 43 Gem. 3 ^a Var. 1 ... | + 3.5030 | - 0.0050 | - 0.001 | + 4.870 | + 0.508 | + 0.01 | 2305 |
| 319 | ... .. | + 2.0111 | + 0.0012 | ... | + 4.891 | + 0.282 | ... | ... |
| 320 | Taylor 2825 ... | + 0.7424 | - 0.0070 | ... | + 4.928 | + 0.103 | ... | ... |
| 321 | 23 Canis Majoris γ ... | + 2.7145 | + 0.0005 | + 0.002 | + 5.000 | + 0.381 | + 0.01 | 2319 |
| 322 | Lalande 13707 ... | + 3.6183 | - 0.0057 | ... | + 5.045 | + 0.509 | ... | ... |
| 323 | W. B. N. VI. 1762... .. | + 3.5196 | - 0.0049 | ... | + 5.073 | + 0.495 | ... | ... |
| 324 | Taylor 2840 ... | + 0.7446 | - 0.0074 | ... | + 5.113 | + 0.103 | ... | ... |
| 325 | 47 Geminorum ... | + 3.7297 | - 0.0077 | - 0.003 | + 5.455 | + 0.522 | + 0.03 | 2343 |
| 326 | ... .. | + 0.4552 | - 0.0125 | ... | + 5.617 | + 0.062 | ... | ... |
| 327 | Taylor 2899 ... | + 1.9005 | + 0.0010 | ... | + 5.687 | + 0.277 | ... | ... |
| 328 | ... .. | + 0.6591 | - 0.0102 | ... | + 5.879 | + 0.089 | ... | ... |
| 329 | ... .. | + 1.9895 | + 0.0010 | ... | + 5.946 | + 0.274 | ... | ... |
| 330 | Geminorum δ ... | + 3.5915 | - 0.0072 | 0.000 | + 6.212 | + 0.495 | + 0.02 | 2410 |
| 331 | ... .. | + 0.5998 | - 0.0119 | ... | + 6.250 | + 0.080 | ... | ... |
| 332 | 57 Geminorum A ... | + 3.6703 | - 0.0087 | 0.000 | + 6.477 | + 0.504 | + 0.02 | 2431 |
| 333 | Taylor 3005 ... | + 0.9651 | - 0.0071 | ... | + 6.491 | + 0.130 | ... | ... |
| 334 | Lacaille 2805 ... | + 0.5812 | - 0.0132 | ... | + 6.644 | + 0.077 | ... | ... |
| 335 | ... .. | + 2.0226 | + 0.0009 | ... | + 6.671 | + 0.275 | ... | ... |
| 336 | ... .. | + 2.0255 | + 0.0010 | ... | + 6.708 | + 0.275 | ... | ... |
| 337 | ... .. | + 3.5486 | - 0.0074 | ... | + 6.778 | + 0.484 | ... | ... |
| 338 | Lacaille 2807 ... | + 1.4479 | - 0.0023 | ... | + 6.827 | + 0.196 | ... | ... |
| 339 | ... .. | + 2.2515 | + 0.0013 | ... | + 6.835 | + 0.306 | ... | ... |
| 340 | ... .. | + 0.6478 | - 0.0127 | ... | + 6.848 | + 0.086 | ... | ... |
| 341 | ... .. | + 2.0529 | + 0.0009 | ... | + 7.314 | + 0.276 | ... | ... |
| 342 | 68 Geminorum ... | + 3.4314 | - 0.0066 | - 0.004 | + 7.852 | + 0.468 | 0.00 | 2486 |
| 343 | 66 Gem. α^3 <i>Caster</i> ... | + 3.8546 | - 0.0133 | - 0.013 | + 7.859 | + 0.519 | + 0.08 | 2455 |
| 344 | 69 Geminorum ν ... | + 3.7092 | - 0.0110 | - 0.001 | + 7.490 | + 0.499 | + 0.11 | 2493 |
| 345 | ... .. | + 2.3038 | + 0.0012 | ... | + 7.731 | + 0.307 | ... | ... |
| 346 | Taylor 3133 ... | + 3.6344 | - 0.0102 | ... | + 7.768 | + 0.437 | ... | 2514 |
| 347 | ... .. | + 1.9937 | + 0.0008 | ... | + 7.770 | + 0.265 | ... | ... |
| 348 | 74 Geminorum f ... | + 3.4713 | - 0.0078 | 0.000 | + 7.820 | + 0.463 | - 0.01 | 2516 |
| 349 | 10 Can. Min. α (<i>Procyon</i>) ... | + 3.1918 | - 0.0041 | - 0.048 | + 7.868 | + 0.425 | + 0.09 | 2522 |
| 350 | ... .. | + 3.5634 | - 0.0094 | ... | + 8.016 | + 0.473 | ... | ... |

332.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|-----------|-----------|----------------------|----------|-----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>''</i> | | |
| 351 | ... | 9.9 | 2 | 7 | 34 | 52.23 | 68 | 10 | 13.3 | 2 | 0.15 |
| 352 | ... | 9.0 | 1 | 7 | 35 | 12.72 | 129 | 58 | 16.0 | 1 | 0.04 |
| 353 | ... | 8.0 | 1 | 7 | 35 | 21.94 | 153 | 0 | 1.9 | 1 | 0.19 |
| 354 | 76 Geminorum <i>c</i> ... | 5.3 | ... | 7 | 35 | 59.85 | 63 | 54 | 7.8 | 3 | 0.03 |
| 355 | ... | 8.0 | 1 | 7 | 36 | 50.30 | 129 | 57 | 41.8 | 1 | 0.04 |
| 356 | ... | 7.6 | 1 | 7 | 36 | 53.55 | 130 | 51 | 17.3 | 1 | 0.20 |
| 357 | 78 Geminorum β (<i>Pollux</i>). | 1.1 | ... | 7 | 37 | 10.41 | 61 | 39 | 20.9 | 11 | 0.13 |
| 358 | ... | 10.3 | 1 | 7 | 37 | 32.39 | 68 | 30 | 8.0 | 1 | 0.07 |
| 359 | ... | 8.2 | 1 | 7 | 37 | 39.50 | 130 | 58 | 31.3 | 1 | 0.18 |
| 360 | ... | 7.1 | 2 | 7 | 39 | 11.57 | 131 | 9 | 2.9 | 2 | 0.14 |
| 361 | Lacaille 2971 ... | 6.9 | 1 | 7 | 40 | 22.52 | 143 | 55 | 24.4 | 1 | 0.19 |
| 362 | ... | 9.5 | 1 | 7 | 42 | 12.51 | 152 | 58 | 22.3 | 1 | 0.06 |
| 363 | ... | 9.2 | 1 | 7 | 44 | 16.12 | 130 | 56 | 27.5 | 1 | 0.15 |
| 364 | R. P. L. 49 ... | 6.5 | ... | 7 | 44 | 40.44 | 5 | 34 | 7.3 | 1 | 0.18 |
| 365 | 83 Geminorum ϕ ... | 4.9 | ... | 7 | 45 | 21.37 | 62 | 53 | 35.5 | 3 | 0.02 |
| 366 | Brisbane 1791 ... | 8.0 | 1 | 7 | 46 | 22.47 | 144 | 25 | 7.1 | 1 | 0.06 |
| 367 | Taylor 3293 ... | 7.3 | 2 | 7 | 46 | 35.47 | 144 | 44 | 34.1 | 2 | 0.20 |
| 368 | ... | 8.1 | 1 | 7 | 47 | 8.14 | 153 | 21 | 15.1 | 1 | 0.19 |
| 369 | U Geminorum Var. 5 ... | 10.2 | 1 | 7 | 47 | 12.75 | 67 | 39 | 6.8 | 1 | 0.96 |
| 370 | ... | 9.5 | 1 | 7 | 48 | 48.96 | 129 | 55 | 18.4 | 1 | 0.20 |
| 371 | 1 Cancri ... | 5.9 | ... | 7 | 49 | 26.33 | 73 | 51 | 26.2 | 1 | 0.12 |
| 372 | Taylor 3323 ... | 7.0 | 1 | 7 | 49 | 51.25 | 149 | 16 | 9.5 | 1 | 0.19 |
| 373 | W. B. N. VII. 1473 ... | 7.5 | 2 | 7 | 53 | 42.27 | 64 | 32 | 51.7 | 3 | 0.06 |
| 374 | ... | 8.8 | 1 | 7 | 53 | 47.19 | 149 | 53 | 19.0 | 1 | 0.17 |
| 375 | 6 Cancri ... | 5.0 | ... | 7 | 55 | 20.73 | 61 | 50 | 8.7 | 3 | 0.13 |
| 376 | 8 Cancri ... | 5.1 | ... | 7 | 57 | 39.85 | 76 | 30 | 20.0 | 1 | 0.13 |
| 377 | ... | 9.0 | 1 | 7 | 57 | 41.32 | 156 | 24 | 38.8 | 1 | 0.06 |
| 378 | ... | 10.2 | 1 | 8 | 0 | 19.60 | 78 | 28 | 23.3 | 1 | 0.06 |
| 379 | ... | 8.0 | 2 | 8 | 1 | 25.91 | 150 | 31 | 52.9 | 2 | 0.19 |
| 380 | 15 Argus ... | 2.9 | ... | 8 | 1 | 52.85 | 113 | 55 | 22.8 | 10 | 0.16 |
| 381 | ... | 9.2 | 1 | 8 | 2 | 18.48 | 128 | 39 | 58.3 | 1 | 0.08 |
| 382 | 14 Cancri ψ^2 ... | 8.8 | ... | 8 | 2 | 26.11 | 64 | 5 | 31.2 | 2 | 0.01 |
| 383 | ... | 9.6 | 1 | 8 | 4 | 34.68 | 154 | 41 | 5.1 | 1 | 0.21 |
| 384 | 16 Cancri 5 ... | 5.4 | ... | 8 | 4 | 34.86 | 71 | 57 | 13.8 | 1 | 0.05 |
| 385 | Lacaille 3200 ... | 6.8 | 3 | 8 | 4 | 50.21 | 153 | 7 | 57.4 | 3 | 0.11 |

364.—Groombridge 1359.

369.—U Geminorum Var. 5.—Period 99 days but irregular.—Range, 9th to below 14th magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distances. | | | Number in B. A. C. |
|---------|--------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 351 | ... | + 3.5624 | - 0.0095 | ... | + 8.067 | + 0.472 | ... | ... |
| 352 | ... | + 2.0467 | + 0.0008 | ... | + 8.094 | + 0.270 | ... | ... |
| 353 | ... | + 0.0721 | - 0.0152 | ... | + 8.106 | + 0.087 | ... | ... |
| 354 | 76 Geminorum c | + 3.0704 | - 0.0124 | 0.000 | + 8.157 | + 0.485 | + 0.08 | 2549 |
| 355 | ... | + 2.0503 | + 0.0008 | ... | + 8.224 | + 0.269 | ... | ... |
| 356 | ... | + 2.0176 | + 0.0009 | ... | + 8.228 | + 0.264 | ... | ... |
| 357 | 78 Gem. β (Pollux) | + 3.7294 | - 0.0128 | + 0.049 | + 8.251 | + 0.491 | + 0.06 | 2555 |
| 358 | ... | + 3.5518 | - 0.0095 | ... | + 8.279 | + 0.468 | ... | ... |
| 359 | ... | + 2.0148 | + 0.0008 | ... | + 8.289 | + 0.264 | ... | ... |
| 360 | ... | + 2.0114 | + 0.0009 | ... | + 8.411 | + 0.262 | ... | ... |
| 361 | Lacaille 2971 | + 1.4104 | - 0.0038 | ... | + 8.506 | + 0.182 | ... | ... |
| 362 | ... | + 0.7075 | - 0.0158 | ... | + 8.650 | + 0.089 | ... | ... |
| 363 | ... | + 2.0303 | + 0.0008 | ... | + 8.612 | + 0.262 | ... | ... |
| 364 | R. P. L. 49... | + 15.3796 | - 1.2263 | ... | + 8.845 | + 2.009 | ... | 2585 |
| 365 | 83 Geminorum ϕ | + 3.6854 | - 0.0130 | - 0.004 | + 8.898 | + 0.478 | + 0.05 | 2617 |
| 366 | Brisbane 1791 | + 1.4010 | - 0.0043 | ... | + 8.978 | + 0.179 | ... | ... |
| 367 | Taylor 3298 | + 1.3818 | - 0.0045 | ... | + 8.994 | + 0.176 | ... | ... |
| 368 | ... | + 0.6935 | - 0.0170 | ... | + 9.088 | + 0.086 | ... | ... |
| 369 | U Geminorum Var. 5. | + 3.5627 | - 0.0108 | ... | + 9.044 | + 0.480 | ... | ... |
| 370 | ... | + 2.0771 | + 0.0010 | ... | + 9.168 | + 0.266 | ... | ... |
| 371 | 1 Cancri | + 3.4159 | - 0.0084 | - 0.001 | + 9.217 | + 0.489 | + 0.04 | 2639 |
| 372 | Taylor 3323 | + 1.0765 | - 0.0095 | ... | + 9.249 | + 0.185 | ... | ... |
| 373 | W. B. N. VII. 1473. | + 3.6317 | - 0.0130 | ... | + 9.547 | + 0.462 | ... | ... |
| 374 | ... | + 1.0451 | - 0.0104 | ... | + 9.553 | + 0.130 | ... | ... |
| 375 | 6 Cancri | + 3.6991 | - 0.0148 | - 0.005 | + 9.673 | + 0.468 | + 0.07 | 2672 |
| 376 | 8 Cancri | + 3.3516 | - 0.0079 | - 0.003 | + 9.850 | + 0.422 | + 0.05 | 2690 |
| 377 | ... | + 0.4053 | - 0.0273 | ... | + 9.852 | + 0.048 | ... | ... |
| 378 | ... | + 3.3077 | - 0.0074 | ... | + 10.052 | + 0.413 | ... | ... |
| 379 | ... | + 1.0305 | - 0.0116 | ... | + 10.136 | + 0.126 | ... | ... |
| 380 | 15 Argus | + 2.5608 | + 0.0009 | - 0.007 | + 10.170 | + 0.318 | - 0.06 | 2728 |
| 381 | ... | + 2.1510 | + 0.0015 | ... | + 10.202 | + 0.266 | ... | ... |
| 382 | 14 Cancri ψ^2 | + 3.6311 | - 0.0140 | - 0.006 | + 10.212 | + 0.452 | + 0.35 | 2730 |
| 383 | ... | + 0.6531 | - 0.0217 | ... | + 10.373 | + 0.078 | ... | ... |
| 384 | 16 Cancri 3 | + 3.4450 | - 0.0103 | + 0.004 | + 10.373 | + 0.426 | + 0.11 | 2744 |
| 385 | Lacaille 3200 | + 0.8151 | - 0.0172 | ... | + 10.391 | + 0.008 | ... | ... |

371.—Proper motions from "Greenwich Catalogue 1872."

376.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--------------------|------------|--------------|-----------------------|-----------|-----------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 386 | ... | 9.4 | 1 | 8 | 5 | 36.44 | 77 | 25 | 31.2 | 1 | 0.16 |
| 387 | ... | 9.5 | 1 | 8 | 5 | 43.67 | 128 | 39 | 18.3 | 1 | 0.21 |
| 388 | ... | 8.0 | 1 | 8 | 6 | 10.35 | 128 | 41 | 3.0 | 1 | 0.15 |
| 389 | ... | 9.5 | 1 | 8 | 6 | 12.24 | 128 | 40 | 14.6 | 1 | 0.08 |
| 390 | ... | 9.2 | 1 | 8 | 8 | 40.56 | 128 | 38 | 56.0 | 1 | 0.15 |
| 391 | W. B. E. VIII. 220 | 8.0 | 3 | 8 | 9 | 36.98 | 99 | 22 | 16.2 | 3 | 0.19 |
| 392 | ... | 9.7 | 1 | 8 | 10 | 9.07 | 150 | 47 | 12.9 | 1 | 0.06 |
| 393 | ... | 9.2 | 1 | 8 | 10 | 29.29 | 151 | 26 | 51.2 | 1 | 0.20 |
| 394 | ... | 8.0 | 1 | 8 | 11 | 53.20 | 152 | 1 | 51.5 | 1 | 0.19 |
| 395 | ... | 9.5 | 1 | 8 | 12 | 1.93 | 131 | 43 | 22.6 | 1 | 0.15 |
| 396 | ... | 8.0 | 1 | 8 | 12 | 23.81 | 128 | 44 | 13.0 | 1 | 0.20 |
| 397 | ... | 9.4 | 4 | 8 | 13 | 19.74 | 131 | 43 | 29.3 | 4 | 0.17 |
| 398 | W. B. E. VIII. 383 | 7.8 | 3 | 8 | 15 | 35.46 | 100 | 19 | 37.9 | 4 | 0.17 |
| 399 | ... | 9.5 | 1 | 8 | 16 | 35.60 | 77 | 32 | 20.5 | 1 | 0.15 |
| 400 | ... | 8.7 | 1 | 8 | 17 | 32.62 | 77 | 49 | 42.9 | 1 | 0.17 |
| 401 | ... | 9.5 | 1 | 8 | 18 | 1.12 | 154 | 23 | 16.6 | 1 | 0.06 |
| 402 | Taylor 3599 | 6.9 | 3 | 8 | 20 | 21.35 | 144 | 53 | 21.0 | 3 | 0.19 |
| 403 | Taylor 3607 | 6.8 | 1 | 8 | 21 | 19.61 | 144 | 55 | 57.8 | 1 | 0.19 |
| 404 | ... | 8.0 | 1 | 8 | 21 | 36.53 | 131 | 42 | 10.0 | 1 | 0.18 |
| 405 | ... | 9.3 | 1 | 8 | 21 | 41.90 | 153 | 18 | 6.4 | 1 | 0.21 |
| 406 | ... | 7.1 | 1 | 8 | 23 | 35.39 | 144 | 53 | 42.9 | 1 | 0.20 |
| 407 | 33 Cancri η | 5.5 | ... | 8 | 25 | 0.86 | 69 | 6 | 35.0 | 10 | 0.23 |
| 408 | Taylor 3651 | 6.7 | 1 | 8 | 25 | 46.17 | 130 | 3 | 56.7 | 1 | 0.13 |
| 409 | Taylor 3652 | 7.7 | 1 | 8 | 25 | 50.31 | 130 | 3 | 15.7 | 1 | 0.13 |
| 410 | ... | 8.0 | ... | 8 | 26 | 11.25 | 145 | 0 | 34.9 | 1 | 0.09 |
| 411 | ... | 9.1 | 1 | 8 | 28 | 48.95 | 75 | 19 | 43.9 | 1 | 0.18 |
| 412 | Lalande 16390 | 7.9 | 1 | 8 | 28 | 51.74 | 73 | 13 | 29.5 | 1 | 0.19 |
| 413 | ... | 9.3 | 1 | 8 | 28 | 57.72 | 70 | 41 | 16.7 | 1 | 0.20 |
| 414 | W. B. N. VIII. 699 | 9.0 | 1 | 8 | 29 | 41.42 | 70 | 40 | 16.6 | 1 | 0.06 |
| 415 | ... | 9.0 | 1 | 8 | 31 | 19.17 | 129 | 46 | 2.1 | 1 | 0.21 |
| 416 | Taylor 3710 | 7.1 | 1 | 8 | 31 | 29.53 | 141 | 21 | 41.8 | 1 | 0.17 |
| 417 | ... | 8.4 | 1 | 8 | 34 | 11.25 | 154 | 21 | 4.6 | 1 | 0.18 |
| 418 | Lacaille 3475 | 6.0 | ... | 8 | 34 | 57.13 | 152 | 23 | 13.8 | 1 | 0.26 |
| 419 | 43 Cancri γ | 4.8 | ... | 8 | 35 | 35.04 | 68 | 3 | 20.7 | 1 | 0.95 |
| 420 | Lacaille 3491 | 6.9 | 2 | 8 | 36 | 4.44 | 152 | 22 | 30.1 | 2 | 0.19 |

391.—398.—Comparison star for Phoea in 1867.

412.—Comparison star for Freia in 1864.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| | | s | s | s | " | " | " | |
| 386 | ... .. | + 3.3267 | - 0.0081 | ... | + 10.449 | + 0.410 | ... | ... |
| 387 | ... .. | + 2.1596 | + 0.0016 | ... | + 10.458 | + 0.265 | ... | ... |
| 388 | ... .. | + 2.1597 | + 0.0016 | ... | + 10.491 | + 0.264 | ... | ... |
| 389 | ... .. | + 2.1603 | + 0.0016 | ... | + 10.494 | + 0.263 | ... | ... |
| 390 | ... .. | + 2.1671 | + 0.0017 | ... | + 10.678 | + 0.263 | ... | ... |
| 391 | W. B. E. VIII. 220. | + 2.8855 | - 0.0015 | ... | + 10.747 | + 0.850 | ... | ... |
| 392 | ... .. | + 1.0564 | - 0.0120 | ... | + 10.737 | + 0.125 | ... | ... |
| 393 | ... .. | + 1.0027 | - 0.0133 | ... | + 10.811 | + 0.118 | ... | ... |
| 394 | ... .. | + 0.9599 | - 0.0146 | ... | + 10.915 | + 0.112 | ... | ... |
| 395 | ... .. | + 2.0723 | + 0.0014 | ... | + 10.925 | + 0.248 | ... | ... |
| 396 | ... .. | + 2.1736 | + 0.0018 | ... | + 10.952 | + 0.261 | ... | ... |
| 397 | ... .. | + 2.0760 | + 0.0015 | ... | + 11.020 | + 0.248 | ... | ... |
| 398 | W. B. E. VIII. 383. | + 2.8699 | - 0.0014 | ... | + 11.185 | + 0.343 | ... | ... |
| 399 | ... .. | + 3.3166 | - 0.0085 | ... | + 11.253 | + 0.395 | ... | ... |
| 400 | ... .. | + 3.3101 | - 0.0084 | ... | + 11.326 | + 0.394 | ... | ... |
| 401 | ... .. | + 0.7738 | - 0.0207 | ... | + 11.361 | + 0.088 | ... | ... |
| 402 | Taylor 3599 ... | + 1.5161 | - 0.0039 | ... | + 11.529 | + 0.176 | ... | ... |
| 403 | Taylor 3607 ... | + 1.5182 | - 0.0038 | ... | + 11.598 | + 0.176 | ... | ... |
| 404 | ... .. | + 2.1010 | + 0.0018 | ... | + 11.617 | + 0.245 | ... | ... |
| 405 | ... .. | + 0.9056 | - 0.0174 | ... | + 11.624 | + 0.108 | ... | ... |
| 406 | ... .. | + 1.5314 | - 0.0037 | ... | + 11.759 | + 0.176 | ... | ... |
| 407 | 33 Cancri γ ... | + 3.4835 | - 0.0129 | - 0.005 | + 11.860 | + 0.404 | + 0.06 | 3369 |
| 408 | Taylor 3651 ... | + 2.1675 | + 0.0022 | ... | + 11.918 | + 0.249 | ... | ... |
| 409 | Taylor 3652 ... | + 2.1681 | + 0.0022 | ... | + 11.917 | + 0.249 | ... | ... |
| 410 | ... .. | + 1.5376 | - 0.0036 | ... | + 11.942 | + 0.175 | ... | ... |
| 411 | ... .. | + 3.3509 | - 0.0092 | ... | + 12.127 | + 0.384 | ... | ... |
| 412 | Lalande 16890 ... | + 3.3931 | - 0.0110 | ... | + 12.180 | + 0.389 | ... | ... |
| 413 | ... .. | + 3.4451 | - 0.0124 | ... | + 12.187 | + 0.395 | ... | ... |
| 414 | W. B. N. VIII. 699. | + 3.4446 | - 0.0124 | ... | + 12.187 | + 0.394 | ... | ... |
| 415 | ... .. | + 2.1933 | + 0.0014 | ... | + 12.299 | + 0.222 | ... | ... |
| 416 | Taylor 3710 ... | + 1.7519 | - 0.0006 | ... | + 12.312 | + 0.197 | ... | ... |
| 417 | ... .. | + 0.8045 | - 0.0197 | ... | + 12.497 | + 0.097 | ... | ... |
| 418 | Lacaille 3475 ... | + 1.0784 | - 0.0142 | ... | + 12.549 | + 0.118 | ... | ... |
| 419 | 43 Cancri γ ... | + 3.4912 | - 0.0143 | - 0.011 | + 12.593 | + 0.390 | ... | ... |
| 420 | Lacaille 3491 ... | + 1.0873 | - 0.0141 | ... | + 12.623 | + 0.118 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|-------------------|------------|--------------|-----------------------|-----------|------------------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 421 | b Velorum ... | 4.1 | ... | 8 | 36 | 12.94 | 136 | 10 | 37.8 | 2 | 0.19 |
| 422 | 47 Cancri δ ... | 4.3 | ... | 8 | 37 | 7.41 | 71 | 21 | 31.9 | 2 | 0.16 |
| 423 | 11 Hydræ ε ... | 3.6 | ... | 8 | 39 | 43.85 | 83 | 5 | 43.7 | 9 | 0.16 |
| 424 | ... .. | 7.7 | 1 | 8 | 40 | 36.21 | 129 | 16 | 13.8 | 1 | 0.18 |
| 425 | ... .. | 8.4 | 2 | 8 | 45 | 56.11 | 86 | 27 | 52.2 | 2 | 0.15 |
| 426 | ... .. | 7.8 | 1 | 8 | 46 | 50.52 | 132 | 53 | 55.3 | 1 | 0.20 |
| 427 | ... .. | 7.9 | 3 | 8 | 46 | 59.78 | 136 | 2 | 35.5 | 3 | 0.23 |
| 428 | R. P. L. 60 ... | 6.3 | ... | 8 | 47 | 4.33 | 5 | 17 | 35.5 | 3 | 0.33 |
| 429 | ... .. | 7.0 | 1 | 8 | 48 | 51.38 | 133 | 1 | 45.0 | 1 | 0.18 |
| 430 | ... .. | 7.5 | ... | 8 | 49 | 26.63 | 132 | 59 | 40.3 | 1 | 0.06 |
| 431 | ... .. | 8.8 | 1 | 8 | 50 | 21.97 | 132 | 57 | 36.6 | 1 | 0.06 |
| 432 | ... .. | 8.3 | 2 | 8 | 52 | 22.35 | 77 | 33 | 11.2 | 2 | 0.18 |
| 433 | ... .. | 8.0 | 1 | 8 | 54 | 8.10 | 132 | 54 | 22.9 | 1 | 0.19 |
| 434 | ... .. | 8.5 | 1 | 8 | 54 | 53.87 | 130 | 36 | 11.6 | 1 | 0.18 |
| 435 | ... .. | 7.8 | 2 | 8 | 55 | 14.21 | 146 | 57 | 22.7 | 2 | 0.23 |
| 436 | ... .. | 7.9 | 1 | 8 | 56 | 44.33 | 146 | 56 | 26.4 | 1 | 0.25 |
| 437 | ... .. | 8.9 | 1 | 8 | 58 | 14.40 | 146 | 19 | 6.1 | 1 | 0.25 |
| 438 | 76 Cancri κ ... | 5.0 | ... | 9 | 0 | 32.61 | 78 | 47 | 54.5 | 1 | 0.28 |
| 439 | ... .. | 8.3 | 1 | 9 | 4 | 31.47 | 132 | 46 | 11.8 | 1 | 0.16 |
| 440 | Lacaille 3713 ... | 7.0 | 1 | 9 | 4 | 40.33 | 143 | 49 | 57.1 | 1 | 0.18 |
| 441 | ... .. | 9.3 | 3 | 9 | 5 | 14.64 | 124 | 49 | 2.4 | 3 | 0.21 |
| 442 | Taylor 4026 ... | 7.3 | 3 | 9 | 6 | 1.72 | 132 | 43 | 26.8 | 3 | 0.23 |
| 443 | Taylor 4028 ... | 8.0 | 3 | 9 | 6 | 11.69 | 132 | 43 | 39.9 | 3 | 0.20 |
| 444 | ... .. | 10.0 | 1 | 9 | 7 | 39.90 | 124 | 47 | 57.5 | 1 | 0.24 |
| 445 | Lacaille 3747 ... | 7.8 | 5 | 9 | 7 | 49.94 | 150 | 24 | 33.5 | 5 | 0.26 |
| 446 | ... .. | 8.7 | 1 | 9 | 9 | 22.46 | 150 | 32 | 31.1 | 1 | 0.25 |
| 447 | Lacaille 3761 ... | 7.3 | 2 | 9 | 9 | 34.74 | 150 | 22 | 9.9 | 2 | 0.27 |
| 448 | ... .. | 9.6 | 1 | 9 | 10 | 18.32 | 150 | 26 | 7.1 | 1 | 0.27 |
| 449 | ... .. | 7.9 | 3 | 9 | 10 | 49.09 | 150 | 21 | 34.7 | 3 | 0.25 |
| 450 | ... .. | 9.5 | 2 | 9 | 11 | 4.42 | 70 | 41 | 32.1 | 2 | 0.15 |
| 451 | 83 Cancri ... | 6.6 | ... | 9 | 11 | 33.26 | 71 | 43 | 58.0 | 4 | 0.20 |
| 452 | ... .. | 8.7 | 3 | 9 | 12 | 27.46 | 124 | 48 | 17.5 | 3 | 0.20 |
| 453 | ... .. | 10.1 | 2 | 9 | 13 | 6.17 | 70 | 32 | 56.5 | 2 | 0.15 |
| 454 | Argus ... | 2.5 | ... | 9 | 13 | 32.04 | 148 | 43 | 7.1 | 1 | 0.16 |
| 455 | ... .. | 8.4 | 2 | 9 | 15 | 9.17 | 150 | 29 | 30.2 | 2 | 0.26 |

425.—Star for map of S Hydræ Var. 3.

428.—Carrington 1283.

450.—Observed by mistake for Diana.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 421 | δ Velorum ... | + 1.9903 | + 0.0018 | ... | + 12.635 | + 0.221 | ... | 2947 |
| 422 | 47 Cancri δ ... | + 3.4212 | - 0.0125 | - 0.002 | + 12.697 | + 0.382 | + 0.24 | 2953 |
| 423 | 11 Hydæ ϵ ... | + 3.1962 | - 0.0071 | - 0.013 | + 12.873 | + 0.351 | + 0.04 | 2971 |
| 424 | ... .. | + 2.2366 | + 0.0031 | ... | + 12.931 | + 0.244 | ... | ... |
| 425 | ... .. | + 3.1340 | - 0.0058 | ... | + 13.284 | + 0.277 | ... | ... |
| 426 | ... .. | + 2.1443 | + 0.0032 | ... | + 13.344 | + 0.228 | ... | ... |
| 427 | ... .. | + 2.0376 | + 0.0026 | ... | + 13.354 | + 0.216 | ... | ... |
| 428 | R. P. L. 60 ... | + 13.8353 | - 1.7290 | ... | + 13.359 | + 1.499 | ... | ... |
| 429 | ... .. | + 2.1473 | + 0.0033 | ... | + 13.475 | + 0.226 | ... | ... |
| 430 | ... .. | + 2.1511 | + 0.0033 | ... | + 13.513 | + 0.226 | ... | ... |
| 431 | ... .. | + 2.1560 | + 0.0034 | ... | + 13.573 | + 0.226 | ... | ... |
| 432 | ... .. | + 3.2376 | - 0.0098 | ... | + 13.701 | + 0.344 | ... | ... |
| 433 | ... .. | + 2.1712 | + 0.0037 | ... | + 13.813 | + 0.223 | ... | ... |
| 434 | ... .. | + 2.2439 | + 0.0039 | ... | + 13.862 | + 0.231 | ... | ... |
| 435 | ... .. | + 1.5339 | - 0.0030 | ... | + 13.833 | + 0.161 | ... | ... |
| 436 | ... .. | + 1.5991 | - 0.0027 | ... | + 13.977 | + 0.161 | ... | ... |
| 437 | ... .. | + 1.0428 | - 0.0018 | ... | + 14.071 | + 0.165 | ... | ... |
| 438 | 76 Cancri κ ... | + 3.2538 | - 0.0093 | - 0.002 | + 14.215 | + 0.329 | 0.00 | 3111 |
| 439 | ... .. | + 2.2150 | + 0.0046 | ... | + 14.458 | + 0.213 | ... | ... |
| 440 | Lacaille 3713 | + 1.8055 | + 0.0010 | ... | + 14.467 | + 0.176 | ... | ... |
| 441 | ... .. | + 2.4296 | + 0.0045 | ... | + 14.502 | + 0.239 | ... | ... |
| 442 | Taylor 4026 ... | + 2.2223 | + 0.0043 | ... | + 14.549 | + 0.217 | ... | ... |
| 443 | Taylor 4028 ... | + 2.2228 | + 0.0043 | ... | + 14.559 | + 0.217 | ... | ... |
| 444 | ... .. | + 2.4374 | + 0.0046 | ... | + 14.647 | + 0.237 | ... | ... |
| 445 | Lacaille 3747 | + 1.4651 | - 0.0057 | ... | + 14.657 | + 0.140 | ... | ... |
| 446 | ... .. | + 1.4681 | - 0.0057 | ... | + 14.749 | + 0.133 | ... | ... |
| 447 | Lacaille 3761 ... | + 1.4308 | - 0.0052 | ... | + 14.761 | + 0.140 | ... | ... |
| 448 | ... .. | + 1.4322 | - 0.0052 | ... | + 14.804 | + 0.140 | ... | ... |
| 449 | ... .. | + 1.4009 | - 0.0050 | ... | + 14.834 | + 0.140 | ... | ... |
| 450 | ... .. | + 3.3369 | - 0.0140 | ... | + 14.849 | + 0.326 | ... | ... |
| 451 | 83 Cancri ... | + 3.3680 | - 0.0134 | - 0.012 | + 14.877 | + 0.323 | + 0.16 | 3171 |
| 452 | ... .. | + 2.4516 | + 0.0050 | ... | + 14.930 | + 0.233 | ... | ... |
| 453 | ... .. | + 3.3363 | - 0.0142 | ... | + 14.963 | + 0.322 | ... | ... |
| 454 | Argus ... | + 1.6106 | - 0.0022 | ... | + 14.993 | + 0.150 | ... | 3136 |
| 455 | ... .. | + 1.5157 | - 0.0044 | ... | + 15.037 | + 0.140 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|----------------------------|------------|--------------|-----------------------|----|------------------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 456 | ... | 8.3 | 3 | 9 | 15 | 20.97 | 150 | 25 | 4.7 | 3 | 0.25 |
| 457 | ... | 7.5 | 1 | 9 | 15 | 21.49 | 143 | 49 | 27.4 | 1 | 0.17 |
| 458 | ... | 8.9 | 1 | 9 | 15 | 43.04 | 124 | 47 | 39.8 | 1 | 0.16 |
| 459 | ... | 9.3 | 2 | 9 | 16 | 30.58 | 70 | 27 | 25.7 | 2 | 0.14 |
| 460 | ... | 9.7 | 1 | 9 | 16 | 38.98 | 124 | 48 | 18.3 | 1 | 0.24 |
| 461 | ... | 8.0 | 1 | 9 | 19 | 6.07 | 70 | 22 | 4.9 | 1 | 0.12 |
| 462 | ... | 8.5 | 2 | 9 | 19 | 25.17 | 150 | 31 | 25.8 | 2 | 0.26 |
| 463 | ... | 8.7 | 2 | 9 | 19 | 51.17 | 125 | 21 | 57.8 | 2 | 0.17 |
| 464 | ... | 8.3 | 1 | 9 | 20 | 34.82 | 125 | 23 | 42.9 | 1 | 0.16 |
| 465 | 30 Hydræ α Var. 2 | 2.0 | ... | 9 | 21 | 3.03 | 98 | 5 | 2.5 | 7 | 0.20 |
| 466 | Lalande 18636 | 8.7 | 2 | 9 | 21 | 51.52 | 68 | 30 | 24.9 | 2 | 0.21 |
| 467 | Lalande 18659 | 9.2 | 2 | 9 | 22 | 47.90 | 67 | 50 | 14.1 | 2 | 0.24 |
| 468 | Lalande 18683 | 9.4 | 2 | 9 | 23 | 27.84 | 68 | 7 | 37.3 | 2 | 0.20 |
| 469 | 6 Leonis h ... | 5.4 | ... | 9 | 24 | 49.70 | 79 | 41 | 59.1 | 2 | 0.13 |
| 470 | Lalande 18730 | 9.1 | 3 | 9 | 25 | 2.60 | 68 | 38 | 37.4 | 3 | 0.20 |
| 471 | ... | 8.8 | 1 | 9 | 26 | 48.02 | 145 | 3 | 14.7 | 1 | 0.26 |
| 472 | Taylor 4222 | 7.5 | 3 | 9 | 27 | 50.21 | 146 | 24 | 8.3 | 3 | 0.15 |
| 473 | ... | 8.5 | 2 | 9 | 28 | 22.08 | 146 | 32 | 46.0 | 2 | 0.17 |
| 474 | ... | 9.0 | 3 | 9 | 31 | 28.95 | 126 | 26 | 34.8 | 3 | 0.20 |
| 475 | ... | 8.5 | 3 | 9 | 32 | 19.69 | 129 | 40 | 39.4 | 3 | 0.22 |
| 476 | R. P. L. 69 | 7.9 | ... | 9 | 33 | 50.34 | 2 | 47 | 34.6 | 2 | 0.24 |
| 477 | 14 Leonis σ | 3.8 | ... | 9 | 34 | 3.03 | 79 | 30 | 15.0 | 1 | 0.20 |
| 478 | Lacaille 3980 | 7.0 | 1 | 9 | 34 | 35.71 | 143 | 34 | 36.0 | 1 | 0.26 |
| 479 | ... | 9.0 | 1 | 9 | 35 | 36.60 | 143 | 30 | 24.2 | 1 | 0.25 |
| 480 | ... | 7.7 | 3 | 9 | 35 | 54.83 | 143 | 40 | 58.7 | 3 | 0.23 |
| 481 | ... | 8.6 | 1 | 9 | 36 | 53.89 | 151 | 54 | 38.9 | 1 | 0.28 |
| 482 | ... | 6.9 | 1 | 9 | 37 | 0.22 | 143 | 25 | 5.9 | 1 | 0.26 |
| 483 | ... | 8.0 | 2 | 9 | 37 | 10.50 | 143 | 32 | 6.1 | 2 | 0.26 |
| 484 | R Leonis Minoris Var. 1... | 7.3 | 3 | 9 | 37 | 35.44 | 54 | 52 | 43.9 | 3 | 0.16 |
| 485 | 17 Leonis ϵ | 3.1 | ... | 9 | 38 | 17.81 | 65 | 36 | 55.4 | 12 | 0.20 |
| 486 | ... | 7.9 | 1 | 9 | 39 | 44.76 | 143 | 34 | 33.2 | 1 | 0.26 |
| 487 | 7 Carinæ Var. 1 | ... | ... | 9 | 41 | 35.69 | 151 | 53 | 45.8 | 1 | 0.25 |
| 488 | ... | 8.0 | 1 | 9 | 41 | 36.77 | 130 | 46 | 40.3 | 1 | 0.14 |
| 489 | Taylor 4337 | 7.0 | 1 | 9 | 41 | 56.94 | 143 | 26 | 5.4 | 1 | 0.26 |
| 490 | ... | 8.0 | 1 | 9 | 42 | 49.43 | 130 | 48 | 39.4 | 1 | 0.27 |

459.—461.—Observed by mistake for Diana.

465.— α Hydræ Var. 2.—Supposed to vary irregularly from 2.0 to 2.5 magnitude.

466.—467.—468.—470.—Comparison stars for Metis in 1861.

476.—Carrington 1418.

484.—R Leonis Minoris Var. 1.—Period 375 days.—Range, 6.5 to below 11th magnitude.

487.—7 Carinæ Var. 1.—Period 31 days.—Range, 3.7 to 5.2 magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| | | s | s | s | " | " | " | |
| 456 | ... | + 1.5220 | - 0.0042 | ... | + 15.098 | + 0.140 | ... | ... |
| 457 | ... | + 1.8687 | + 0.0026 | ... | + 15.098 | + 0.174 | ... | ... |
| 458 | ... | + 2.4617 | + 0.0053 | ... | + 15.119 | + 0.229 | ... | ... |
| 459 | ... | + 3.3827 | - 0.0142 | ... | + 15.165 | + 0.316 | ... | ... |
| 460 | ... | + 2.4643 | + 0.0053 | ... | + 15.173 | + 0.228 | ... | ... |
| 461 | ... | + 3.3801 | - 0.0114 | ... | + 15.312 | + 0.311 | ... | ... |
| 462 | ... | + 1.5469 | - 0.0035 | ... | + 15.330 | + 0.188 | ... | ... |
| 463 | ... | + 2.4616 | + 0.0056 | ... | + 15.355 | + 0.224 | ... | ... |
| 464 | ... | + 2.4633 | + 0.0057 | ... | + 15.396 | + 0.223 | ... | ... |
| 465 | 30 Hydræ α Var. 2 ... | + 2.9506 | - 0.0013 | - 0.004 | + 15.423 | + 0.268 | - 0.003 | 3223 |
| 466 | Lalande 18636 ... | + 3.4072 | - 0.0153 | ... | + 15.467 | + 0.310 | ... | ... |
| 467 | Lalande 18659 ... | + 3.4170 | - 0.0161 | ... | + 15.519 | + 0.309 | ... | ... |
| 468 | Lalande 18683 ... | + 3.4109 | - 0.0159 | ... | + 15.556 | + 0.308 | ... | ... |
| 469 | 6 Leonis h ... | + 3.2244 | - 0.0092 | - 0.002 | + 15.631 | + 0.288 | + 0.002 | 3251 |
| 470 | Lalande 18730 ... | + 3.3992 | - 0.0156 | ... | + 15.643 | + 0.304 | ... | ... |
| 471 | ... | + 1.8863 | + 0.0037 | ... | + 15.733 | + 0.164 | ... | ... |
| 472 | Taylor 4222 ... | + 1.8320 | + 0.0029 | ... | + 15.795 | + 0.158 | ... | ... |
| 473 | ... | + 1.8288 | + 0.0029 | ... | + 15.823 | + 0.157 | ... | ... |
| 474 | ... | + 2.4762 | + 0.0067 | ... | + 15.939 | + 0.211 | ... | ... |
| 475 | ... | + 2.4059 | + 0.0072 | ... | + 16.034 | + 0.204 | ... | ... |
| 476 | R. P. L. 69 ... | + 19.3805 | - 5.7291 | ... | + 16.113 | + 1.377 | ... | ... |
| 477 | 14 Leonis ϵ ... | + 3.2193 | - 0.0093 | - 0.013 | + 16.124 | + 0.272 | + 0.004 | 3312 |
| 478 | Lacaille 3980 ... | + 1.7750 | + 0.0024 | ... | + 16.152 | + 0.147 | ... | ... |
| 479 | ... | + 1.7865 | + 0.0027 | ... | + 16.205 | + 0.147 | ... | ... |
| 480 | ... | + 1.7792 | + 0.0026 | ... | + 16.220 | + 0.146 | ... | ... |
| 481 | ... | + 1.6076 | - 0.0016 | ... | + 16.271 | + 0.130 | ... | ... |
| 482 | ... | + 1.8006 | + 0.0031 | ... | + 16.276 | + 0.146 | ... | ... |
| 483 | ... | + 1.7970 | + 0.0030 | ... | + 16.278 | + 0.146 | ... | ... |
| 484 | R Leonis Min. Var. 1. | + 3.6196 | - 0.0276 | ... | + 16.306 | + 0.301 | ... | ... |
| 485 | 17 Leonis ϵ ... | + 3.4233 | - 0.0180 | - 0.004 | + 16.342 | + 0.282 | + 0.002 | 3331 |
| 486 | ... | + 1.8150 | + 0.0036 | ... | + 16.415 | + 0.145 | ... | ... |
| 487 | 7 Carinæ Var. 1 ... | + 1.6504 | - 0.0001 | - 0.003 | + 16.507 | + 0.130 | - 0.002 | 3359 |
| 488 | ... | + 2.4174 | + 0.0033 | ... | + 16.509 | + 0.193 | ... | ... |
| 489 | Taylor 4337 ... | + 1.8390 | + 0.0042 | ... | + 16.525 | + 0.145 | ... | ... |
| 490 | ... | + 2.4217 | + 0.0034 | ... | + 16.533 | + 0.132 | ... | ... |

487.—Proper motions from "Stone's Cape Catalogue."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---------------------------------------|------------|--------------|-----------------------|----|------------------|----------------------|----|------|---------------|-------------------|
| | | | | h | m | s | ° | ' | " | | |
| 491 | ... | 9.5 | 1 | 9 | 44 | 15.40 | 148 | 30 | 48.0 | 1 | 0.26 |
| 492 | ... | 9.4 | 2 | 9 | 45 | 4.51 | 129 | 48 | 11.3 | 2 | 0.18 |
| 493 | R. P. L. 70 | 6.5 | ... | 9 | 46 | 50.58 | 5 | 28 | 38.1 | 3 | 0.18 |
| 494 | Taylor 4381 | 6.8 | 3 | 9 | 47 | 11.38 | 152 | 7 | 24.0 | 3 | 0.18 |
| 495 | ... | 10.3 | 1 | 9 | 47 | 16.57 | 75 | 34 | 21.9 | 2 | 0.20 |
| 496 | ... | 8.8 | 3 | 9 | 52 | 49.72 | 129 | 41 | 32.2 | 3 | 0.23 |
| 497 | 29 Leonis τ | 5.0 | ... | 9 | 53 | 10.99 | 81 | 19 | 8.9 | 14 | 0.21 |
| 498 | ... | 9.6 | 1 | 9 | 54 | 54.39 | 125 | 18 | 14.0 | 1 | 0.16 |
| 499 | ... | 8.0 | 1 | 9 | 55 | 57.99 | 147 | 25 | 7.3 | 1 | 0.25 |
| 500 | ... | 8.8 | 2 | 9 | 57 | 54.18 | 145 | 33 | 54.9 | 2 | 0.23 |
| 501 | Taylor 4476 | 8.0 | 1 | 9 | 57 | 57.89 | 145 | 36 | 55.7 | 1 | 0.15 |
| 502 | ... | 7.9 | 1 | 9 | 58 | 31.74 | 150 | 39 | 51.6 | 1 | 0.20 |
| 503 | Taylor 4484 | 7.1 | 1 | 9 | 58 | 46.06 | 151 | 30 | 53.2 | 1 | 0.23 |
| 504 | ... | 9.5 | 3 | 10 | 0 | 3.81 | 86 | 23 | 8.0 | 3 | 0.25 |
| 505 | 32 Leonis α (<i>Regulus</i>) | 1.4 | ... | 10 | 1 | 17.16 | 77 | 23 | 2.9 | 12 | 0.19 |
| 506 | ... | 8.0 | 1 | 10 | 1 | 28.82 | 130 | 2 | 51.7 | 1 | 0.25 |
| 507 | ... | 8.1 | 1 | 10 | 2 | 9.03 | 129 | 57 | 19.8 | 1 | 0.26 |
| 508 | ... | 9.3 | 2 | 10 | 2 | 27.39 | 123 | 28 | 17.3 | 2 | 0.19 |
| 509 | ... | 8.5 | 1 | 10 | 4 | 33.50 | 122 | 54 | 50.9 | 1 | 0.14 |
| 510 | ... | 9.6 | 3 | 10 | 4 | 41.51 | 123 | 29 | 41.7 | 3 | 0.20 |
| 511 | Taylor 4552 | 7.0 | 1 | 10 | 7 | 8.66 | 147 | 24 | 17.9 | 1 | 0.25 |
| 512 | ... | 7.5 | 2 | 10 | 8 | 6.86 | 139 | 57 | 11.2 | 2 | 0.23 |
| 513 | ... | 8.7 | 1 | 10 | 9 | 8.50 | 139 | 52 | 35.8 | 1 | 0.25 |
| 514 | R. P. L. 72 | 5.9 | ... | 10 | 9 | 50.67 | 5 | 4 | 32.2 | 3 | 0.53 |
| 515 | ... | 8.0 | 1 | 10 | 9 | 53.15 | 145 | 35 | 16.2 | 1 | 0.15 |
| 516 | ... | 9.1 | 3 | 10 | 10 | 23.25 | 139 | 52 | 5.8 | 3 | 0.21 |
| 517 | 41 Leonis γ^1 | 2.2 | ... | 10 | 12 | 33.14 | 69 | 29 | 13.9 | 7 | 0.25 |
| 518 | ... | 9.5 | 1 | 10 | 12 | 59.06 | 128 | 37 | 51.6 | 1 | 0.29 |
| 519 | ... | 8.0 | 3 | 10 | 16 | 6.73 | 125 | 33 | 14.5 | 3 | 0.20 |
| 520 | Lalande 20139 | 8.8 | 1 | 10 | 16 | 17.88 | 75 | 25 | 24.9 | 1 | 0.18 |
| 521 | ... | 9.7 | 1 | 10 | 18 | 52.64 | 146 | 9 | 21.0 | 1 | 0.15 |
| 522 | ... | 9.7 | 1 | 10 | 19 | 30.33 | 146 | 9 | 36.9 | 1 | 0.20 |
| 523 | ... | 9.5 | 2 | 10 | 21 | 25.91 | 125 | 34 | 9.7 | 2 | 0.18 |
| 524 | ... | 7.4 | 3 | 10 | 22 | 17.63 | 125 | 32 | 29.2 | 3 | 0.20 |
| 525 | ... | 8.0 | 1 | 10 | 24 | 12.33 | 146 | 56 | 1.5 | 1 | 0.25 |

493.—Carrington 1451.

514.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---------------------------------------|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 491 | ... | + 1.8535 | + 0.0047 | ... | + 16.639 | + 0.144 | ... | ... |
| 492 | ... | + 2.4535 | + 0.0035 | ... | + 16.679 | + 0.192 | ... | ... |
| 498 | R. P. L. 70... | + 10.7719 | - 1.5829 | ... | + 16.764 | + 0.355 | ... | ... |
| 494 | Taylor 4381 ... | + 1.6880 | + 0.0013 | ... | + 16.781 | + 0.128 | ... | 3389 |
| 495 | ... | + 3.2603 | - 0.0113 | ... | + 16.785 | + 0.253 | ... | ... |
| 496 | ... | + 2.4875 | + 0.0095 | ... | + 17.046 | + 0.184 | ... | ... |
| 497 | 29 Leonis π ... | + 3.1793 | - 0.0080 | - 0.003 | + 17.062 | + 0.236 | + 0.03 | 3415 |
| 498 | ... | + 2.5806 | + 0.0036 | ... | + 17.141 | + 0.188 | ... | ... |
| 499 | ... | + 1.9944 | + 0.0036 | ... | + 17.183 | + 0.143 | ... | ... |
| 500 | ... | + 2.0817 | + 0.0099 | ... | + 17.275 | + 0.147 | ... | ... |
| 501 | Taylor 4476 ... | + 2.0802 | + 0.0100 | ... | + 17.278 | + 0.147 | ... | ... |
| 502 | ... | + 1.8695 | + 0.0037 | ... | + 17.303 | + 0.131 | ... | ... |
| 503 | Taylor 4434 ... | + 1.8287 | + 0.0058 | ... | + 17.314 | + 0.128 | ... | ... |
| 504 | ... | + 3.1143 | - 0.0055 | ... | + 17.371 | + 0.220 | ... | ... |
| 505 | 32 Leonis α (<i>Regulus</i>) | + 3.2202 | - 0.0102 | - 0.019 | + 17.424 | + 0.225 | - 0.01 | 3459 |
| 506 | ... | + 2.5165 | + 0.0105 | ... | + 17.433 | + 0.175 | ... | ... |
| 507 | ... | + 2.5212 | + 0.0105 | ... | + 17.431 | + 0.173 | ... | ... |
| 508 | ... | + 2.6383 | + 0.0034 | ... | + 17.475 | + 0.132 | ... | ... |
| 509 | ... | + 2.6544 | + 0.0039 | ... | + 17.564 | + 0.179 | ... | ... |
| 510 | ... | + 2.6455 | + 0.0091 | ... | + 17.570 | + 0.178 | ... | ... |
| 511 | Taylor 4552 ... | + 2.0336 | + 0.0116 | ... | + 17.672 | + 0.136 | ... | 3491 |
| 512 | ... | + 2.3260 | + 0.0130 | ... | + 17.712 | + 0.151 | ... | ... |
| 513 | ... | + 2.3344 | + 0.0131 | ... | + 17.754 | + 0.150 | ... | ... |
| 514 | R. P. L. 72... | + 10.0320 | - 1.6559 | - 0.079 | + 17.733 | + 0.369 | + 0.05 | 3495 |
| 515 | ... | + 2.1707 | + 0.0129 | ... | + 17.733 | + 0.133 | ... | ... |
| 516 | ... | + 2.3422 | + 0.0134 | ... | + 17.804 | + 0.149 | ... | ... |
| 517 | 41 Leonis γ^1 ... | + 3.2979 | - 0.0143 | + 0.019 | + 17.894 | + 0.203 | + 0.15 | 3523 |
| 518 | ... | + 2.5912 | + 0.0115 | ... | + 17.903 | + 0.162 | ... | ... |
| 519 | ... | + 2.6536 | + 0.0110 | ... | + 18.029 | + 0.161 | ... | ... |
| 520 | Lalande 20139 ... | + 3.2242 | - 0.0110 | ... | + 18.036 | + 0.193 | ... | ... |
| 521 | ... | + 2.2206 | + 0.0152 | ... | + 18.133 | + 0.131 | ... | ... |
| 522 | ... | + 2.2254 | + 0.0155 | ... | + 18.157 | + 0.130 | ... | ... |
| 523 | ... | + 2.6735 | + 0.0113 | ... | + 18.223 | + 0.154 | ... | ... |
| 524 | ... | + 2.6771 | + 0.0113 | ... | + 18.260 | + 0.153 | ... | ... |
| 525 | ... | + 2.2336 | + 0.0166 | ... | + 18.323 | + 0.125 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|-----------------------------------|------------|--------------|-----------------------|-----------|-----------|----------------------|----------|-----------------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 526 | ... | 8.4 | 1 | 10 | 24 | 32.14 | 146 | 59 | 50.6 | 1 | 0.25 |
| 527 | ... | 8.2 | 2 | 10 | 24 | 53.44 | 125 | 34 | 47.0 | 2 | 0.22 |
| 528 | Lalande 20402 | 7.7 | 3 | 10 | 25 | 8.18 | 79 | 53 | 41.9 | 3 | 0.27 |
| 529 | 47 Leonis ρ | 4.0 | ... | 10 | 25 | 48.39 | 80 | 0 | 36.7 | 12 | 0.19 |
| 530 | Taylor 4769 | 5.7 | 1 | 10 | 30 | 29.30 | 146 | 52 | 12.9 | 1 | 0.29 |
| 531 | ... | 8.8 | 2 | 10 | 31 | 10.46 | 151 | 10 | 33.7 | 2 | 0.19 |
| 532 | R Ursæ Majoris Var. 1 | 7.5 | 3 | 10 | 35 | 11.65 | 20 | 31 | 38.0 | 3 | 0.27 |
| 533 | ... | 9.3 | 1 | 10 | 35 | 29.86 | 137 | 20 | 28.7 | 1 | 0.20 |
| 534 | ... | 8.2 | 3 | 10 | 35 | 47.93 | 146 | 54 | 26.2 | 3 | 0.27 |
| 535 | Taylor 4850 ... 1st... | 9.0 | 1 | 10 | 38 | 46.16 | 148 | 51 | 3.2 | 1 | 0.32 |
| 536 | Taylor 4850 ... 2nd... | 7.7 | 1 | 10 | 38 | 49.27 | 148 | 51 | 2.8 | 1 | 0.32 |
| 537 | Taylor 4852 ... 1st... | 8.0 | 1 | 10 | 38 | 59.00 | 148 | 52 | 42.6 | 1 | 0.20 |
| 538 | Taylor 4852 ... 2nd... | 8.9 | 1 | 10 | 39 | 0.53 | 148 | 52 | 46.0 | 1 | 0.25 |
| 539 | Brisbane 3194 | 8.3 | 1 | 10 | 39 | 24.40 | 149 | 2 | 41.0 | 1 | 0.26 |
| 540 | ... | 9.0 | 1 | 10 | 39 | 31.73 15 | 139 | 3 | 7.9 | 1 | 0.31 |
| 541 | η Argus Var. 1 | 8.0 | ... | 10 | 39 | 54.45 | 148 | 59 | 11.2 | 2 | 0.19 |
| 542 | Taylor 4872 | 7.7 | 1 | 10 | 41 | 11.48 | 151 | 14 | 31.8 | 1 | 0.29 |
| 543 | 53 Leonis l | 5.3 | ... | 10 | 42 | 15.87 | 78 | 45 | 7.8 | 9 | 0.21 |
| 544 | ... | 9.5 | 1 | 10 | 42 | 31.99 | 148 | 52 | 17.9 | 1 | 0.20 |
| 545 | ... | 9.7 | 1 | 10 | 42 | 32.13 | 75 | 5 | 48.0 | 1 | 0.14 |
| 546 | Taylor 4886 | 6.9 | 1 | 10 | 42 | 55.34 | 137 | 2 | 57.7 | 1 | 0.18 |
| 547 | Lacaille 4502 | 7.0 | 1 | 10 | 46 | 37.75 | 141 | 5 | 34.5 | 1 | 0.06 |
| 548 | ... | 9.2 | 1 | 10 | 48 | 3.58 42 | 147 | 43 | 1.4 | 1 | 0.31 |
| 549 | ... | 8.6 | 2 | 10 | 48 | 23.78 | 141 | 45 | 48.7 | 2 | 0.28 |
| 550 | ... | 8.7 | 2 | 10 | 48 | 33.98 | 148 | 52 | 33.3 | 2 | 0.23 |
| 551 | ... | 9.1 | ... | 10 | 50 | 39.34 | 148 | 49 | 2.0 | 1 | 0.20 |
| 552 | 7 Crateris α | 4.1 | ... | 10 | 53 | 17.78 | 107 | 35 | 29.5 | 1 | 0.14 |
| 553 | 58 Leonis d | 5.0 | ... | 10 | 53 | 41.44 | 85 | 40 | 9.7 | 1 | 0.29 |
| 554 | R Crateris Var. 1 | 8.8 | 5 | 10 | 54 | 0.99 | 107 | 36 | 43.5 | 5 | 0.26 |
| 555 | ... | 9.1 | 2 | 10 | 54 | 11.15 | 107 | 39 | 14.8 | 2 | 0.31 |
| 556 | 50 Ursæ Majoris α (Dubhe). | 2.0 | ... | 10 | 55 | 29.92 | 27 | 31 | 54.8 | 1 | 0.33 |
| 557 | ... | 8.9 | 1 | 10 | 57 | 9.71 | 145 | 36 | 40.6 | 1 | 0.20 |
| 558 | 63 Leonis χ | 4.7 | ... | 10 | 58 | 9.30 | 81 | 56 | 44.7 | 15 | 0.27 |
| 559 | Lacaille 4612 | 8.3 | 1 | 11 | 1 | 1.83 | 154 | 47 | 31.8 | 1 | 0.32 |
| 560 | 67 Leonis | 5.6 | ... | 11 | 1 | 40.69 | 64 | 37 | 20.0 | 1 | 0.32 |

31.86

3.62

7.5

3.0

40.4

532.—R Ursæ Majoris Var. 1.—Period 303 days.—Range, 6th to 13th magnitude.
 541.— η Argus Var. 1.—Irregularly variable from 1st to 9th magnitude.
 554.—R Crateris Var. 1.—Changes between 8th and 9th magnitude.
 560.—Comparison star for Thalia in 1862.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 526 | ... | + 2.2393 | + 0.0168 | ... | + 18.340 | + 0.124 | ... | ... |
| 527 | ... | + 2.6365 | + 0.0120 | ... | + 18.353 | + 0.150 | ... | ... |
| 528 | Lalande 20402 | + 3.1679 | - 0.0084 | ... | + 18.361 | + 0.178 | ... | ... |
| 529 | 47 Leonis ρ | + 3.1661 | - 0.0080 | 0.000 | + 18.385 | + 0.176 | + 0.03 | 3609 |
| 530 | Taylor 4769 | + 2.2922 | + 0.0185 | ... | + 18.544 | + 0.119 | ... | 3685 |
| 531 | ... | + 2.1539 | + 0.0179 | ... | + 18.567 | + 0.111 | ... | ... |
| 532 | R Ursæ Maj. Var. 1. | + 4.3635 | - 0.1402 | ... | + 18.697 | + 0.223 | ... | ... |
| 533 | ... | + 2.5492 | + 0.0177 | ... | + 18.707 | + 0.126 | ... | ... |
| 534 | ... | + 2.3352 | + 0.0202 | ... | + 18.717 | + 0.114 | ... | ... |
| 535 | Taylor 4350... 1st. | + 2.3043 | + 0.0212 | ... | + 18.808 | + 0.109 | ... | ... |
| 536 | Taylor 4350... 2nd. | + 2.3048 | + 0.0211 | ... | + 18.809 | + 0.109 | ... | ... |
| 537 | Taylor 4352 ... 1st. | + 2.3055 | + 0.0213 | ... | + 18.815 | + 0.108 | ... | ... |
| 538 | Taylor 4352 ... 2nd. | + 2.3057 | + 0.0212 | ... | + 18.816 | + 0.108 | ... | ... |
| 539 | Brisbane 3194 | + 2.3043 | + 0.0214 | ... | + 18.828 | + 0.108 | ... | ... |
| 540 | ... | + 2.5421 | + 0.0191 | ... | + 18.831 | + 0.119 | ... | ... |
| 541 | η Argûs Var. 1 | + 2.3106 | + 0.0216 | ... | + 18.842 | + 0.107 | ... | 3695 |
| 542 | Taylor 4372 | + 2.2508 | + 0.0220 | ... | + 18.881 | + 0.102 | ... | ... |
| 543 | 53 Leonis l | + 3.1005 | - 0.0080 | - 0.003 | + 18.912 | + 0.145 | + 0.02 | 3708 |
| 544 | ... | + 2.3379 | + 0.0226 | ... | + 18.920 | + 0.105 | ... | ... |
| 545 | ... | + 3.1001 | - 0.0104 | ... | + 18.920 | + 0.147 | ... | ... |
| 546 | Taylor 4386 | + 2.3982 | + 0.0190 | ... | + 18.931 | + 0.117 | ... | ... |
| 547 | Lacaille 4502 | + 2.5508 | + 0.0215 | ... | + 19.036 | + 0.109 | ... | ... |
| 548 | ... | + 2.4187 | + 0.0242 | ... | + 19.075 | + 0.101 | ... | ... |
| 549 | ... | + 2.5506 | + 0.0222 | ... | + 19.085 | + 0.108 | ... | ... |
| 550 | ... | + 2.3931 | + 0.0247 | ... | + 19.088 | + 0.099 | ... | ... |
| 551 | ... | + 2.4139 | + 0.0254 | ... | + 19.144 | + 0.097 | ... | ... |
| 552 | 7 Crateris a | + 2.9505 | + 0.0072 | - 0.033 | + 19.211 | + 0.115 | - 0.14 | 3766 |
| 553 | 53 Leonis d | + 3.1009 | - 0.0039 | - 0.002 | + 19.221 | + 0.120 | + 0.08 | 3768 |
| 554 | R Crateris Var. 1 | + 2.9517 | + 0.0088 | ... | + 19.230 | + 0.114 | ... | ... |
| 555 | ... | + 2.9516 | + 0.0089 | .. | + 19.234 | + 0.114 | ... | ... |
| 556 | 50 Urs. Maj. a (Dubhe). | + 3.7845 | - 0.0821 | - 0.017 | + 19.265 | + 0.144 | + 0.09 | 3777 |
| 557 | ... | + 2.5432 | + 0.0263 | ... | + 19.306 | + 0.092 | ... | ... |
| 558 | 63 Leonis χ | + 3.1224 | - 0.0056 | - 0.024 | + 19.329 | + 0.113 | + 0.08 | 3783 |
| 559 | Lacaille 4612 | + 2.3494 | + 0.0315 | ... | + 19.395 | + 0.079 | ... | ... |
| 560 | 67 Leonis | + 3.2335 | - 0.0164 | + 0.003 | + 19.398 | + 0.111 | + 0.01 | 3809 |

560.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|----------------------------|------------|--------------|-----------------------|----|----------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 561 | Lalande 21367 | 7.7 | 3 | 11 | 3 | 28.25 | 78 | 6 | 45.8 | 3 | 0.31 |
| 562 | Lalande 21366 | 9.0 | 2 | 11 | 3 | 30.27 | 64 | 8 | 44.2 | 2 | 0.21 |
| 563 | S Leonis Var. 2 | 10.5 | 1 | 11 | 3 | 58.27 | 83 | 49 | 7.3 | 1 | 0.14 |
| 564 | ... .. | 8.8 | 1 | 11 | 4 | 27.49 | 150 | 15 | 32.0 | 1 | 0.33 |
| 565 | ... .. | 9.7 | 1 | 11 | 7 | 0.36 | 65 | 26 | 3.3 | 1 | 0.29 |
| 566 | 68 Leonis δ | 2.8 | ... | 11 | 7 | 1.88 | 68 | 44 | 54.4 | 12 | 0.28 |
| 567 | ... .. | 8.8 | 2 | 11 | 10 | 33.27 | 148 | 56 | 48.4 | 2 | 0.19 |
| 568 | ... .. | 8.0 | 1 | 11 | 11 | 16.77 | 127 | 39 | 22.7 | 1 | 0.34 |
| 569 | 12 Crateris δ | 3.9 | ... | 11 | 12 | 41.55 | 104 | 3 | 33.3 | 13 | 0.29 |
| 570 | 77 Leonis σ | 4.1 | ... | 11 | 14 | 16.64 | 83 | 14 | 33.0 | 3 | 0.16 |
| 571 | ... .. | 8.7 | 3 | 11 | 16 | 35.51 | 125 | 39 | 59.9 | 3 | 0.24 |
| 572 | ... .. | 9.3 | 4 | 11 | 18 | 7.72 | 125 | 40 | 3.3 | 4 | 0.21 |
| 573 | O. A. N. 11812 | 8.0 | 1 | 11 | 23 | 20.34 | 22 | 58 | 43.9 | 1 | 0.33 |
| 574 | ... .. | 9.0 | 1 | 11 | 24 | 40.74 | 22 | 56 | 53.5 | 1 | 0.29 |
| 575 | ... .. | 9.7 | 1 | 11 | 24 | 43.24 | 146 | 9 | 57.8 | 1 | 0.29 |
| 576 | ... .. | 9.5 | 1 | 11 | 24 | 50.12 | 84 | 43 | 20.0 | 1 | 0.24 |
| 577 | ... .. | 9.2 | 1 | 11 | 25 | 17.49 | 151 | 32 | 29.7 | 1 | 0.35 |
| 578 | ... .. | 8.9 | 1 | 11 | 25 | 29.33 | 123 | 27 | 47.0 | 1 | 0.14 |
| 579 | ... .. | 9.3 | 2 | 11 | 25 | 32.71 | 22 | 56 | 59.2 | 2 | 0.28 |
| 580 | ... .. | 10.0 | 1 | 11 | 26 | 38.75.36 | 151 | 38 | 55.0 | 1 | 0.31 |
| 581 | ... .. | 9.7 | 1 | 11 | 26 | 59.68 | 151 | 31 | 53.4 | 1 | 0.33 |
| 582 | 91 Leonis υ | 4.5 | ... | 11 | 30 | 8.31 | 90 | 5 | 24.1 | 19 | 0.28 |
| 583 | ... .. | 8.0 | 1 | 11 | 34 | 6.01 | 127 | 50 | 17.3 | 1 | 0.14 |
| 584 | W. B. E. XI 597 | 9.2 | 2 | 11 | 34 | 52.82 | 88 | 16 | 5.2 | 2 | 0.29 |
| 585 | ... .. | 8.0 | 1 | 11 | 36 | 12.08 | 139 | 41 | 16.9 | 1 | 0.33 |
| 586 | ... .. | 7.9 | 1 | 11 | 38 | 17.33.15 | 149 | 39 | 48.3 | 1 | 0.31 |
| 587 | ... .. | 7.9 | 2 | 11 | 41 | 5.52 | 149 | 53 | 4.8 | 2 | 0.35 |
| 588 | ... .. | 8.6 | 2 | 11 | 41 | 17.94 | 126 | 31 | 26.2 | 2 | 0.34 |
| 589 | 94 Leonis β (Deneb) | 2.2 | ... | 11 | 42 | 16.43 | 74 | 41 | 5.4 | 17 | 0.29 |
| 590 | 5 Virginis β | 3.7 | ... | 11 | 43 | 46.04 | 87 | 29 | 9.6 | 1 | 0.21 |
| 591 | ... .. | 8.7 | 4 | 11 | 48 | 34.09 | 124 | 55 | 47.1 | 4 | 0.31 |
| 592 | Lacaille 4956 | 8.0 | 1 | 11 | 51 | 18.37 | 154 | 34 | 55.1 | 1 | 0.14 |
| 593 | ... .. | 9.1 | 2 | 11 | 51 | 45.88 | 144 | 13 | 55.8 | 2 | 0.32 |
| 594 | R. P. L. 87 | 8.0 | ... | 11 | 52 | 28.07 | 2 | 15 | 53.4 | 6 | 0.41 |
| 595 | ... .. | 9.4 | 1 | 11 | 52 | 29.64 | 154 | 33 | 31.4 | 1 | 0.14 |

562.—565.—Comparison stars for Thalia in 1862.
 563.—S Leonis Var. 2.—Period 188 days.—Range, 9th to below 13th magnitude.
 573.—574.—579.—Comparison stars for Comet 2, 1861.
 576.—Observed by mistake for Amphitrite in 1866.
 584.—Comparison star for Amphitrite in 1862.
 594.—Carrington 1773.

6.49

33.32

17.95

34.19

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 561 | Lalande 21367 ... | + 3.1408 | - 0.0075 | ... | + 19.448 | + 0.104 | ... | ... |
| 562 | Lalande 21366 ... | + 3.2302 | - 0.0168 | ... | + 19.449 | + 0.107 | ... | ... |
| 563 | S Leonis Var. 2 ... | + 3.1071 | - 0.0044 | ... | + 19.459 | + 0.101 | ... | ... |
| 564 | ... .. | + 2.5106 | + 0.0313 | ... | + 19.469 | + 0.080 | ... | ... |
| 565 | ... .. | + 3.2122 | - 0.0156 | ... | + 19.521 | + 0.100 | ... | ... |
| 566 | 68 Leonis δ ... | + 3.1912 | - 0.0132 | + 0.011 | + 19.522 | + 0.098 | + 0.14 | 3884 |
| 567 | ... .. | + 2.5969 | + 0.0328 | ... | + 19.589 | + 0.073 | ... | ... |
| 568 | ... .. | + 2.8545 | + 0.0186 | ... | + 19.604 | + 0.080 | ... | ... |
| 569 | 12 Crateris δ ... | + 3.0034 | + 0.0064 | - 0.009 | + 19.630 | + 0.081 | - 0.18 | 3859 |
| 570 | 77 Leonis σ ... | + 3.1035 | - 0.0042 | - 0.009 | + 19.657 | + 0.081 | + 0.03 | 3862 |
| 571 | ... .. | + 2.8914 | + 0.0182 | ... | + 19.697 | + 0.071 | ... | ... |
| 572 | ... .. | + 2.8978 | + 0.0184 | ... | + 19.721 | + 0.069 | ... | ... |
| 573 | O. A. N. 11812 ... | + 3.5744 | - 0.0930 | ... | + 19.799 | + 0.075 | ... | ... |
| 574 | ... .. | + 3.5569 | - 0.0923 | ... | + 19.817 | + 0.071 | ... | ... |
| 575 | ... .. | + 2.7663 | + 0.0352 | ... | + 19.818 | + 0.053 | ... | ... |
| 576 | ... .. | + 3.0910 | - 0.0023 | ... | + 19.819 | + 0.060 | ... | ... |
| 577 | ... .. | + 2.7000 | + 0.0415 | ... | + 19.825 | + 0.050 | ... | ... |
| 578 | ... .. | + 2.9128 | + 0.0210 | ... | + 19.828 | + 0.055 | ... | ... |
| 579 | ... .. | + 3.5450 | - 0.0913 | ... | + 19.829 | + 0.068 | ... | ... |
| 580 | ... .. | + 2.7127 | + 0.0424 | ... | + 19.843 | + 0.048 | ... | ... |
| 581 | ... .. | + 2.7182 | + 0.0423 | ... | + 19.847 | + 0.048 | ... | ... |
| 582 | 91 Leonis ν ... | + 3.0718 | + 0.0003 | - 0.003 | + 19.835 | + 0.049 | - 0.03 | 3946 |
| 583 | ... .. | + 2.9550 | + 0.0219 | ... | + 19.926 | + 0.040 | ... | ... |
| 584 | W. B. El. XI. 597 ... | + 3.0765 | - 0.0004 | ... | + 19.934 | + 0.041 | ... | ... |
| 585 | ... .. | + 2.9037 | + 0.0320 | ... | + 19.946 | + 0.035 | ... | ... |
| 586 | ... .. | + 2.8561 | + 0.0444 | ... | + 19.965 | + 0.080 | ... | ... |
| 587 | ... .. | + 2.8822 | + 0.0458 | ... | + 19.987 | + 0.028 | ... | ... |
| 588 | ... .. | + 2.9914 | + 0.0218 | ... | + 19.988 | + 0.027 | ... | ... |
| 589 | 94 Leonis β (<i>Deneb</i>) ... | + 3.1004 | - 0.0074 | - 0.036 | + 19.995 | + 0.025 | + 0.10 | 3996 |
| 590 | 5 Virginis β ... | + 3.0763 | - 0.0003 | + 0.048 | + 20.004 | + 0.023 | + 0.28 | 4009 |
| 591 | ... .. | + 3.0255 | + 0.0215 | ... | + 20.030 | + 0.018 | ... | ... |
| 592 | Lacaille 4956 ... | + 2.9655 | + 0.0598 | ... | + 20.040 | + 0.008 | ... | ... |
| 593 | ... .. | + 3.0054 | + 0.0410 | ... | + 20.042 | + 0.007 | ... | ... |
| 594 | R. P. L. 87 ... | + 4.1825 | - 1.2996 | ... | + 20.044 | + 0.011 | ... | ... |
| 595 | ... .. | + 2.9801 | + 0.0604 | ... | + 20.044 | + 0.005 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|--------------|---------------------------------------|------------|--------------|-----------------------|----|--------------------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 631 | ... | 9.0 | 1 | 12 | 53 | 18.29 | 142 | 25 | 3.3 | 1 | 0.40 |
| 632 | ... | 8.0 | 1 | 12 | 53 | 35.72 | 135 | 45 | 26.4 | 1 | 0.35 |
| 633 | ... | 9.1 | 1 | 12 | 54 | 48.28 | 139 | 19 | 21.0 | 1 | 0.35 |
| 634 | ... | 9.2 | 1 | 12 | 57 | 9.26 | 123 | 26 | 10.8 | 1 | 0.41 |
| 17.95 635 | Lacaille 3581 | 7.7 | 2 | 12 | 57 | 17.92 ^s | 129 | 58 | 5.6 | 2 | 0.34 |
| 636 | ... | 8.3 | 1 | 12 | 58 | 15.93 | 124 | 29 | 41.2 | 1 | 0.36 |
| 637 | 51 Virginis θ | 4.4 | ... | 13 | 3 | 3.88 | 94 | 49 | 42.5 | 14 | 0.32 |
| 638 | Taylor 6057 | 5.6 | 1 | 13 | 4 | 0.78 | 149 | 12 | 44.9 | 1 | 0.35 |
| 639 | ... | 9.0 | 1 | 13 | 4 | 42.50 | 138 | 11 | 32.4 | 1 | 0.35 |
| 640 | ... | 9.3 | 1 | 13 | 4 | 46.30 | 143 | 13 | 19.7 | 1 | 0.33 |
| 641 | ... | 9.5 | 1 | 13 | 5 | 47.26 | 124 | 17 | 29.9 | 1 | 0.41 |
| 9.38 642 | Lacaille 5434 | 7.5 | 1 | 13 | 6 | 9.27 ³⁸ | 152 | 52 | 31.5 | 1 | 0.31 |
| 643 | R. P. L. 101 | 7.5 | ... | 13 | 9 | 53.78 | 1 | 38 | 15.5 | 2 | 0.38 |
| 644 | Taylor 6129 | 7.0 | 1 | 13 | 12 | 23.30 | 130 | 29 | 29.3 | 1 | 0.36 |
| 645 | Taylor 6148 | 7.5 | 1 | 13 | 14 | 21.75 | 128 | 9 | 17.2 | 1 | 0.40 |
| 646 | Taylor 6160 | 8.1 | 2 | 13 | 15 | 45.29 | 128 | 55 | 54.7 | 2 | 0.40 |
| 647 | 67 Virginis α (<i>Spica</i>) | 1.2 | ... | 13 | 18 | 11.23 | 100 | 27 | 53.5 | 10 | 0.31 |
| 648 | 79 Ursae Majoris 3 ...2nd | 4.2 | ... | 13 | 18 | 34.75 | 34 | 22 | 57.4 | 1 | 0.43 |
| 649 | O. A. S. 12872 | 9.8 | 2 | 13 | 19 | 30.87 | 116 | 57 | 22.7 | 2 | 0.37 |
| 650 | Lacaille 5546 | 9.0 | 1 | 13 | 19 | 52.27 | 143 | 23 | 26.2 | 1 | 0.39 |
| 5.72 651 | R. P. L. 103 | 7.3 | ... | 13 | 20 | 5.72 6.26 | 4 | 33 | 0.6 | 3 | 0.52 |
| 652 | ... | 10.6 | 1 | 13 | 23 | 26.90 | 88 | 39 | 10.4 | 1 | 0.41 |
| 653 | ... | 8.0 | ... | 13 | 24 | 57.90 | 128 | 9 | 38.7 | 1 | 0.39 |
| 44.85 654 | ... | 8.2 | 1 | 13 | 25 | 41.30 ⁵ | 128 | 11 | 13.8 | 1 | 0.31 |
| 655 | Taylor 6257 | 8.7 | 2 | 13 | 25 | 47.57 | 148 | 49 | 20.7 | 2 | 0.41 |
| 656 | 76 Virginis h | 5.5 | ... | 13 | 25 | 57.83 | 99 | 28 | 43.9 | 1 | 0.29 |
| 657 | ... | 8.2 | 1 | 13 | 26 | 43.45 | 131 | 36 | 7.5 | 1 | 0.40 |
| 658 | 79 Virginis 3 | 3.5 | ... | 13 | 27 | 55.04 | 89 | 54 | 54.5 | 11 | 0.30 |
| 659 | Lacaille 5614 | 8.0 | 1 | 13 | 30 | 7.29 | 123 | 13 | 3.1 | 1 | 0.33 |
| 660 | Lacaille 5639 | 7.1 | 2 | 13 | 33 | 23.73 | 123 | 47 | 0.1 | 2 | 0.41 |
| 661 | ... | 9.5 | 1 | 13 | 34 | 13.39 | 129 | 10 | 53.7 | 1 | 0.41 |
| 662 | ... | 8.3 | 1 | 13 | 35 | 53.62 | 128 | 4 | 23.1 | 1 | 0.40 |
| 663 | O. A. S. 13079 | 9.3 | 2 | 13 | 36 | 1.73 | 116 | 49 | 34.3 | 2 | 0.43 |
| 664 | ... | 9.2 | 1 | 13 | 36 | 25.17 | 128 | 6 | 16.7 | 1 | 0.29 |
| 665 | ... | 9.5 | 1 | 13 | 36 | 42.66 | 144 | 39 | 14.4 | 1 | 0.32 |

643.—Groombridge 2006.
 649.—Comparison star for Eunomia in 1863.
 651.—Groombridge 2007.
 652.—Comparison star for Europa in 1864.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---------------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 631 | ... | + 3.4725 | + 0.0522 | ... | + 19.515 | - 0.125 | ... | ... |
| 632 | ... | + 3.3903 | + 0.0407 | ... | + 19.509 | - 0.123 | ... | ... |
| 633 | ... | + 3.4406 | + 0.0465 | ... | + 19.484 | - 0.127 | ... | ... |
| 634 | ... | + 3.2900 | + 0.0268 | ... | + 19.435 | - 0.126 | ... | ... |
| 635 | Lacaille 5381 | + 3.3494 | + 0.0335 | ... | + 19.432 | - 0.128 | ... | ... |
| 636 | ... | + 3.3032 | + 0.0278 | ... | + 19.409 | - 0.129 | ... | ... |
| 637 | 51 Virginis θ ... | + 3.1028 | + 0.0078 | - 0.004 | + 19.301 | - 0.132 | + 0.04 | 4401 |
| 638 | Taylor 6057 | + 3.6908 | + 0.0729 | ... | + 19.278 | - 0.158 | ... | 4412 |
| 639 | ... | + 3.4887 | + 0.0459 | ... | + 19.260 | - 0.150 | ... | ... |
| 640 | ... | + 3.5710 | + 0.0560 | ... | + 19.259 | - 0.153 | ... | ... |
| 641 | ... | + 3.3303 | + 0.0282 | ... | + 19.235 | - 0.145 | ... | ... |
| 642 | Lacaille 5434 | + 3.8151 | + 0.0880 | ... | + 19.225 | - 0.166 | ... | ... |
| 643 | R. P. L. 101 | - 10.0683 | + 8.1234 | ... | + 19.129 | + 0.472 | ... | ... |
| 644 | Taylor 6129 | + 3.4268 | + 0.0353 | ... | + 19.062 | - 0.163 | ... | ... |
| 645 | Taylor 6148 | + 3.4070 | + 0.0328 | ... | + 19.009 | - 0.166 | ... | ... |
| 646 | Taylor 6160 | + 3.4226 | + 0.0338 | ... | + 18.969 | - 0.170 | ... | ... |
| 647 | 67 Virginis α (<i>Spica</i>) | + 3.1547 | + 0.0116 | - 0.005 | + 18.899 | - 0.163 | + 0.04 | 4430 |
| 648 | 79 Urs. Maj. 5 2nd... | + 2.4151 | - 0.0172 | + 0.014 | + 18.888 | - 0.127 | + 0.05 | 4436 |
| 649 | O. A. S. 12872 | + 3.3033 | + 0.0224 | ... | + 18.860 | - 0.172 | ... | ... |
| 650 | Lacaille 5546 | + 3.6886 | + 0.0589 | ... | + 18.849 | - 0.192 | ... | ... |
| 651 | R. P. L. 103 | - 2.6818 | + 0.9907 | ... | + 18.842 | + 0.126 | ... | 4438 |
| 652 | ... | + 3.0609 | + 0.0055 | ... | + 18.740 | - 0.167 | ... | ... |
| 653 | ... | + 3.4528 | + 0.0334 | ... | + 18.692 | - 0.190 | ... | ... |
| 654 | ... | + 3.4563 | + 0.0334 | ... | + 18.669 | - 0.192 | ... | ... |
| 655 | Taylor 6257 | + 3.8801 | + 0.0761 | ... | + 18.666 | - 0.215 | ... | ... |
| 656 | 76 Virginis λ | + 3.1539 | + 0.0113 | - 0.004 | + 18.660 | - 0.176 | + 0.02 | 4521 |
| 657 | ... | + 3.5111 | + 0.0379 | ... | + 18.633 | - 0.197 | ... | ... |
| 658 | 79 Virginis 5... | + 3.0713 | + 0.0064 | - 0.019 | + 18.628 | - 0.176 | - 0.06 | 4532 |
| 659 | Lacaille 5614 | + 3.4756 | + 0.0337 | ... | + 18.524 | - 0.202 | ... | ... |
| 660 | Lacaille 5639 | + 3.4266 | + 0.0291 | ... | + 18.412 | - 0.207 | ... | ... |
| 661 | ... | + 3.5076 | + 0.0351 | ... | + 18.384 | - 0.212 | ... | ... |
| 662 | ... | + 3.4977 | + 0.0338 | ... | + 18.325 | - 0.215 | ... | ... |
| 663 | O. A. S. 13079 | + 3.3472 | + 0.0229 | ... | + 18.320 | - 0.207 | ... | ... |
| 664 | ... | + 3.5004 | + 0.0339 | ... | + 18.306 | - 0.216 | ... | ... |
| 665 | ... | + 3.8443 | + 0.0642 | ... | + 18.295 | - 0.237 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|--------------|---|------------|--------------|-----------------------|----|---------------------------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 666 | Taylor 6366 | 7.0 | 1 | 13 | 37 | 5.10 | 151 | 47 | 0.3 | 1 | 0.33 |
| 20-52 667 | Lacaille 5659 | 7.8 | 1 | 13 | 37 | 20.42 | 152 | 14 | 28.7 | 1 | 0.31 |
| 668 | O. A. S. 13100 | 8.0 | 1 | 13 | 37 | 23.78 | 116 | 58 | 37.0 | 1 | 0.42 |
| 669 | ... .. | 9.5 | 1 | 13 | 37 | 40.85 | 123 | 48 | 56.7 | 1 | 0.41 |
| 670 | ... .. | 8.9 | 1 | 13 | 40 | 40.97 | 129 | 24 | 55.9 | 1 | 0.41 |
| 671 | O. A. S. 13186 | 8.2 | 3 | 13 | 43 | 55.24 | 116 | 58 | 24.3 | 3 | 0.33 |
| 672 | O. A. S. 13198 | 9.1 | 3 | 13 | 44 | 57.85 | 117 | 11 | 26.6 | 3 | 0.34 |
| 673 | ... .. | 7.9 | 2 | 13 | 45 | 34.03 | 128 | 23 | 59.0 | 2 | 0.35 |
| 674 | ... .. | 9.7 | 3 | 13 | 45 | 41.51 | 128 | 24 | 5.5 | 3 | 0.36 |
| 675 | X Virginis Var. 5 | 8.9 | 6 | 13 | 47 | 23.92 | 78 | 16 | 47.7 | 6 | 0.39 |
| 676 | 8 Bootis η | 2.9 | ... | 13 | 48 | 21.09 | 70 | 56 | 5.0 | 9 | 0.38 |
| 677 | ... .. | 9.2 | 1 | 13 | 50 | 11.81 | 149 | 55 | 3.5 | 1 | 0.40 |
| 678 | ... .. | 9.5 | 1 | 13 | 52 | 36.60 | 123 | 2 | 18.0 | 1 | 0.30 |
| 679 | ... .. | 9.7 | 1 | 13 | 53 | 18.96 | 135 | 41 | 44.5 | 1 | 0.41 |
| 680 | β Centauri | 1.2 | ... | 13 | 54 | 23.01 | 149 | 43 | 47.9 | 1 | 0.33 |
| 681 | 93 Virginis τ | 4.4 | ... | 13 | 54 | 52.73 | 87 | 48 | 38.3 | 12 | 0.38 |
| 13-10 682 | Lacaille 5794 | 7.0 | 1 | 13 | 57 | 12.19 12.99 | 152 | 43 | 28.8 | 1 | 0.31 |
| 683 | ... .. | 8.4 | 2 | 13 | 58 | 25.19 | 129 | 20 | 57.3 | 2 | 0.40 |
| 684 | 94 Virginis | 7.0 | ... | 13 | 59 | 15.37 | 98 | 15 | 20.6 | 1 | 0.22 |
| 685 | 95 Virginis | 5.7 | ... | 13 | 59 | 40.85 | 98 | 40 | 39.6 | 2 | 0.37 |
| 686 | Ialande 25896 | 7.6 | 1 | 14 | 0 | 2.58 | 67 | 11 | 45.5 | 1 | 0.30 |
| 687 | ... .. | 10.2 | 1 | 14 | 0 | 34.41 | 150 | 52 | 1.7 | 1 | 0.40 |
| 688 | Taylor 6585 | 7.8 | 1 | 14 | 1 | 33.07 | 124 | 14 | 56.5 | 1 | 0.36 |
| 689 | ... .. | 9.2 | 1 | 14 | 2 | 12.37 | 124 | 17 | 6.0 | 1 | 0.41 |
| 690 | ... .. | 8.0 | 2 | 14 | 5 | 14.86 | 129 | 21 | 10.6 | 2 | 0.40 |
| 691 | Lacaille 5844 | 7.3 | 1 | 14 | 5 | 17.51 | 151 | 4 | 57.1 | 1 | 0.32 |
| 692 | 98 Virginis κ | 4.3 | ... | 14 | 5 | 43.17 | 99 | 39 | 11.4 | 4 | 0.26 |
| 693 | ... .. | 8.5 | 3 | 14 | 6 | 20.24 | 135 | 2 | 10.5 | 3 | 0.40 |
| 694 | 99 Virginis ι | 4.2 | ... | 14 | 9 | 2.51 | 95 | 21 | 52.8 | 2 | 0.37 |
| 695 | 16 Bootis α (<i>Arcturus</i>) | 0.0 | ... | 14 | 9 | 35.74 | 70 | 7 | 27.3 | 14 | 0.40 |
| 696 | ... .. | 9.5 | 1 | 14 | 11 | 40.28 | 124 | 28 | 24.4 | 1 | 0.41 |
| 697 | 100 Virginis λ | 4.6 | ... | 14 | 11 | 54.98 | 102 | 45 | 26.7 | 1 | 0.30 |
| 698 | W. B. E. XIV. 192 | 7.5 | 1 | 14 | 12 | 1.26 | 103 | 47 | 33.0 | 1 | 0.29 |
| 699 | ... .. | 9.5 | 1 | 14 | 12 | 42.24 | 136 | 50 | 42.5 | 1 | 0.32 |
| 700 | ... .. | 9.5 | 1 | 14 | 15 | 30.26 | 122 | 12 | 28.3 | 1 | 0.41 |

671.—672.—Comparison stars for Atalanta in 1867.

675.—X Virginis Var. 5.—Range, 8.9 to below 12th magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 666 | Taylor 6366 ... | + 4.0963 | + 0.0909 | .. | + 18.282 | - 0.253 | .. | .. |
| 667 | Lacaille 5659 ... | + 4.1188 | + 0.0933 | .. | + 18.273 | - 0.255 | .. | .. |
| 668 | O. A. S. 13100 ... | + 3.3527 | + 0.0231 | .. | + 18.271 | - 0.210 | .. | .. |
| 669 | ... .. | + 3.4424 | + 0.0292 | .. | + 18.261 | - 0.215 | .. | .. |
| 670 | ... .. | + 3.5395 | + 0.0356 | .. | + 18.151 | - 0.228 | .. | .. |
| 671 | O. A. S. 13186 ... | + 3.3702 | + 0.0233 | .. | + 18.028 | - 0.224 | .. | .. |
| 672 | O. A. S. 13198 ... | + 3.3758 | + 0.0234 | .. | + 17.988 | - 0.226 | .. | .. |
| 673 | ... .. | + 3.5431 | + 0.0346 | .. | + 17.965 | - 0.238 | .. | .. |
| 674 | ... .. | + 3.5437 | + 0.0346 | .. | + 17.960 | - 0.238 | .. | .. |
| 675 | X Virginis Var. 5 ... | + 2.9468 | + 0.0022 | .. | + 17.898 | - 0.202 | .. | .. |
| 676 | 8 Bootis η ... | + 2.8616 | - 0.0006 | - 0.004 | + 17.855 | - 0.199 | + 0.36 | 4648 |
| 677 | ... .. | + 4.1372 | + 0.0842 | .. | + 17.781 | - 0.287 | .. | .. |
| 678 | ... .. | + 3.5657 | + 0.0343 | .. | + 17.682 | - 0.253 | .. | .. |
| 679 | ... .. | + 3.7222 | + 0.0453 | .. | + 17.653 | - 0.265 | .. | .. |
| 680 | β Centauri ... | + 4.1692 | + 0.0841 | - 0.310 | + 17.605 | - 0.301 | + 0.05 | 4669 |
| 681 | 93 Virginis τ ... | + 3.0477 | + 0.0064 | + 0.001 | + 17.587 | - 0.221 | + 0.07 | 4672 |
| 682 | Lacaille 5794 ... | + 4.3467 | + 0.0996 | .. | + 17.485 | - 0.313 | .. | .. |
| 683 | ... .. | + 3.6137 | + 0.0361 | .. | + 17.437 | - 0.268 | .. | .. |
| 684 | 94 Virginis ... | + 3.1686 | + 0.0115 | - 0.002 | + 17.400 | - 0.237 | + 0.01 | 4683 |
| 685 | 95 Virginis ... | + 3.1739 | + 0.0118 | - 0.010 | + 17.382 | - 0.238 | - 0.01 | 4690 |
| 686 | Lalande 25896 ... | + 2.7910 | - 0.0023 | .. | + 17.365 | - 0.210 | .. | .. |
| 687 | ... .. | + 4.2767 | + 0.0897 | .. | + 17.343 | - 0.320 | .. | .. |
| 688 | Taylor 6585 ... | + 3.5326 | + 0.0302 | .. | + 17.299 | - 0.268 | .. | .. |
| 689 | ... .. | + 3.5355 | + 0.0302 | .. | + 17.271 | - 0.269 | .. | .. |
| 690 | ... .. | + 3.6419 | + 0.0362 | .. | + 17.184 | - 0.284 | .. | .. |
| 691 | Lacaille 5844 ... | + 4.3303 | + 0.0912 | .. | + 17.131 | - 0.335 | .. | .. |
| 692 | 98 Virginis κ ... | + 3.1908 | + 0.0122 | + 0.001 | + 17.109 | - 0.250 | - 0.02 | 4716 |
| 693 | ... .. | + 3.7733 | + 0.0445 | .. | + 17.084 | - 0.295 | .. | .. |
| 694 | 99 Virginis ϵ ... | + 3.1391 | + 0.0102 | + 0.001 | + 16.959 | - 0.252 | + 0.41 | 4727 |
| 695 | 16 Bootis α (<i>Arcturus</i>). ... | + 2.8132 | + 0.0004 | - 0.079 | + 16.934 | - 0.227 | + 1.38 | 4739 |
| 696 | ... .. | + 3.5710 | + 0.0304 | .. | + 16.835 | - 0.290 | .. | .. |
| 697 | 100 Virginis λ ... | + 3.2369 | + 0.0140 | - 0.002 | + 16.824 | - 0.264 | - 0.02 | 4746 |
| 698 | W. B. E. XIV. 192 ... | + 3.2509 | + 0.0146 | .. | + 16.813 | - 0.266 | .. | .. |
| 699 | ... .. | + 3.8524 | + 0.0477 | .. | + 16.736 | - 0.314 | .. | .. |
| 700 | ... .. | + 3.5416 | + 0.0231 | .. | + 16.650 | - 0.294 | .. | .. |

680.—Proper motions from "Stone's Cape Catalogue."

684.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--|------------|--------------|-----------------------|----------|----------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h</i> | <i>m</i> | <i>s</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 701 | Taylor 6740 | 7.4 | 1 | 14 | 19 | 16.54 | 133 | 43 | 47.4 | 1 | 0.43 |
| 702 | ... .. | 8.7 | 2 | 14 | 19 | 44.67 | 124 | 39 | 11.4 | 2 | 0.41 |
| 703 | ... .. | 8.0 | 1 | 14 | 20 | 8.62 | 127 | 9 | 44.7 | 1 | 0.43 |
| 704 | Lacaille 5962. | 7.0 | 1 | 14 | 22 | 53.23 | 129 | 47 | 33.6 | 1 | 0.33 |
| 705 | ... .. | 9.0 | 1 | 14 | 23 | 7.11 | 129 | 46 | 47.5 | 1 | 0.33 |
| 706 | 25 Bootis ρ | 3.6 | ... | 14 | 26 | 5.84 | 59 | 2 | 37.4 | 11 | 0.40 |
| 707 | ... .. | 9.3 | 1 | 14 | 26 | 54.52 | 123 | 20 | 51.2 | 1 | 0.43 |
| 708 | ... .. | 7.5 | 3 | 14 | 29 | 37.68 | 124 | 56 | 19.8 | 3 | 0.43 |
| 709 | Lacaille 6027 | 7.9 | 1 | 14 | 31 | 15.11 | 122 | 48 | 5.5 | 1 | 0.42 |
| 710 | Taylor 6848 | 7.3 | 1 | 14 | 33 | 0.34 | 136 | 42 | 7.2 | 1 | 0.41 |
| 711 | α Lupi | 2.6 | ... | 14 | 33 | 5.77 | 136 | 48 | 54.3 | 2 | 0.43 |
| 712 | ... .. | 9.0 | ... | 14 | 33 | 6.45 | 126 | 18 | 35.1 | 1 | 0.40 |
| 713 | ... .. | 8.9 | 1 | 14 | 36 | 44.43 | 150 | 18 | 9.5 | 1 | 0.43 |
| 714 | 5 Libræ | 6.6 | ... | 14 | 38 | 37.98 | 104 | 53 | 49.7 | 2 | 0.22 |
| 715 | 36 Bootis ϵ (<i>Mirac</i>) ... | 2.6 | ... | 14 | 39 | 10.65 | 62 | 21 | 49.4 | 6 | 0.41 |
| 716 | ... .. | 8.3 | ... | 14 | 40 | 35.81 | 127 | 4 | 32.7 | 1 | 0.39 |
| 717 | Brisbane 5069 | 8.0 | 1 | 14 | 41 | 35.46 | 131 | 17 | 31.3 | 1 | 0.44 |
| 718 | Lalande 27022 | 7.8 | 1 | 14 | 43 | 22.05 | 78 | 57 | 10.4 | 1 | 0.43 |
| 719 | 9 Libræ α^3 | 3.0 | ... | 14 | 43 | 31.43 | 105 | 29 | 14.5 | 6 | 0.38 |
| 720 | ... .. | 9.5 | 1 | 14 | 47 | 43.98 | 150 | 41 | 43.7 | 1 | 0.43 |
| 721 | ... .. | 8.9 | 1 | 14 | 50 | 34.91 | 130 | 32 | 53.5 | 1 | 0.43 |
| 722 | O. A. S. 14112 | 8.1 | 2 | 14 | 51 | 3.32 | 109 | 11 | 27.7 | 2 | 0.46 |
| 723 | 7 Urs. Min. β Var. 1 (<i>Kochab</i>) | 2.1 | ... | 14 | 51 | 7.85 | 15 | 18 | 2.8 | 1 | 0.49 |
| 724 | Radcliffe 3306 | 7.5 | 1 | 14 | 56 | 6.45 | 42 | 11 | 45.8 | 1 | 0.41 |
| 725 | Taylor 7936 | 6.7 | ... | 14 | 58 | 5.88 | 62 | 23 | 49.4 | 1 | 0.41 |
| 726 | 43 Bootis ψ | 4.5 | ... | 14 | 53 | 44.76 | 62 | 31 | 56.3 | 3 | 0.44 |
| 727 | 21 Libræ ν^1 | 5.4 | ... | 14 | 59 | 12.62 | 105 | 44 | 19.6 | 1 | 0.37 |
| 728 | W. B. E. XV. 7 | 8.5 | 1 | 15 | 2 | 30.34 | 97 | 21 | 42.2 | 1 | 0.45 |
| 729 | Taylor 7079 | 6.6 | 1 | 15 | 3 | 30.99 | 123 | 7 | 59.1 | 1 | 0.44 |
| 730 | W. B. E. XV. 32 | 8.2 | 1 | 15 | 3 | 36.41 | 97 | 2 | 18.4 | 1 | 0.43 |
| 731 | R. P. L. 111 | 6.9 | ... | 15 | 5 | 23.02 | 5 | 32 | 5.3 | 2 | 0.42 |
| 732 | W. B. E. XV 86... .. | 9.3 | 2 | 15 | 6 | 41.06 | 98 | 2 | 34.2 | 2 | 0.50 |
| 733 | 27 Libræ β | 2.7 | ... | 15 | 9 | 51.11 | 98 | 53 | 24.7 | 5 | 0.39 |
| 734 | ... .. | 7.7 | 1 | 15 | 12 | 2.83 | 130 | 24 | 41.7 | 1 | 0.44 |
| 735 | ... .. | 9.0 | 1 | 15 | 17 | 15.87 | 130 | 4 | 21.4 | 1 | 0.40 |

722.—Comparison star for Isis in 1861.

723.— β Ursæ Minoris Var. 1.—(*Kochab*)—Supposed to vary irregularly from 2.0 to 2.5 magnitude.

728.—730.—732.—Comparison stars for Comet 2, 1867.

731.—Grombridge 2213.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 701 | Taylor 6740 ... | + 3.8024 | + 0.0423 | ... | + 16.464 | - 0.323 | ... | ... |
| 702 | ... .. | + 3.6010 | + 0.0306 | ... | + 16.441 | - 0.308 | ... | ... |
| 703 | ... .. | + 3.6340 | + 0.0334 | ... | + 16.421 | - 0.313 | ... | ... |
| 704 | Lacaille 5962 ... | + 3.7224 | + 0.0365 | ... | + 16.282 | - 0.324 | ... | ... |
| 705 | ... .. | + 3.7230 | + 0.0364 | ... | + 16.270 | - 0.324 | ... | ... |
| 706 | 25 Bootis ρ ... | + 2.5947 | - 0.0015 | - 0.008 | + 16.117 | - 0.233 | - 0.14 | 4808 |
| 707 | ... .. | + 3.5982 | + 0.0291 | ... | + 16.074 | - 0.321 | ... | ... |
| 708 | ... .. | + 3.6395 | + 0.0306 | ... | + 15.931 | - 0.329 | ... | ... |
| 709 | Lacaille 6027 ... | + 3.6004 | + 0.0284 | ... | + 15.844 | - 0.329 | ... | ... |
| 710 | Taylor 6848 ... | + 3.9506 | + 0.0469 | ... | + 15.749 | - 0.364 | ... | ... |
| 711 | α Lupi ... | + 3.9545 | + 0.0472 | ... | + 15.744 | - 0.364 | ... | 4839 |
| 712 | ... .. | + 3.6807 | + 0.0319 | ... | + 15.743 | - 0.339 | ... | ... |
| 713 | ... .. | + 4.5532 | + 0.0874 | ... | + 15.544 | - 0.426 | ... | ... |
| 714 | 5 Libræ ... | + 3.2992 | + 0.0152 | - 0.003 | + 15.439 | - 0.314 | + 0.01 | 4868 |
| 715 | 36 Bootis ϵ (<i>Mirac</i>) ... | + 2.6240 | - 0.0001 | - 0.005 | + 15.409 | - 0.252 | - 0.01 | 4876 |
| 716 | ... .. | + 3.7236 | + 0.0326 | ... | + 15.329 | - 0.357 | ... | ... |
| 717 | Brisbane 5069 ... | + 3.8332 | + 0.0379 | ... | + 15.273 | - 0.369 | ... | ... |
| 718 | Lalande 27022 ... | + 2.9014 | + 0.0045 | ... | + 15.171 | - 0.283 | ... | ... |
| 719 | 9 Libræ α^2 ... | + 3.3145 | + 0.0154 | - 0.007 | + 15.163 | - 0.324 | + 0.06 | 4895 |
| 720 | ... .. | + 4.6639 | + 0.0883 | ... | + 14.920 | - 0.460 | ... | ... |
| 721 | ... .. | + 3.8471 | + 0.0363 | ... | + 14.751 | - 0.366 | ... | ... |
| 722 | O. A. S. 14112 ... | + 3.3881 | + 0.0175 | ... | + 14.724 | - 0.341 | ... | ... |
| 723 | 7 Urs. Min. β Var. 1. | - 0.2470 | + 0.1022 | - 0.005 | + 14.720 | + 0.013 | + 0.03 | 4936 |
| 724 | Radcliffe 3306 ... | + 2.0474 | + 0.0009 | ... | + 14.418 | - 0.213 | ... | 4949 |
| 725 | Taylor 7936 ... | + 2.5819 | + 0.0011 | ... | + 14.298 | - 0.270 | ... | 4962 |
| 726 | 43 Bootis ψ ... | + 2.5833 | + 0.0010 | - 0.013 | + 14.259 | - 0.271 | 0.00 | 4969 |
| 727 | 21 Libræ ν^1 ... | + 3.3377 | + 0.0153 | - 0.004 | + 14.230 | - 0.349 | + 0.03 | 4970 |
| 728 | W. B. E. XV. 7 ... | + 3.1956 | + 0.0112 | ... | + 14.025 | - 0.339 | ... | ... |
| 729 | Taylor 7079 ... | + 3.6986 | + 0.0273 | ... | + 13.962 | - 0.303 | ... | ... |
| 730 | W. B. E. XV. 32 ... | + 3.1906 | + 0.0112 | ... | + 13.950 | - 0.340 | ... | ... |
| 731 | R. P. L. 111 ... | - 6.9100 | + 1.1827 | ... | + 13.844 | + 0.723 | ... | 6022 |
| 732 | W. B. E. XV. 86 ... | + 3.2095 | + 0.0114 | ... | + 13.762 | - 0.347 | ... | ... |
| 733 | 27 Libræ β ... | + 3.2262 | + 0.0117 | - 0.009 | + 13.558 | - 0.353 | + 0.01 | 5034 |
| 734 | ... .. | + 3.0182 | + 0.0343 | ... | + 13.416 | - 0.431 | ... | ... |
| 735 | ... .. | + 3.9251 | + 0.0334 | ... | + 13.073 | - 0.440 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--|------------|--------------|-----------------------|-----------|------------------|----------------------|----------|----------|---------------|-------------------|
| | | | | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>°</i> | <i>'</i> | <i>"</i> | | |
| 736 | 32 Libræ ζ^1 | 6.2 | ... | 15 | 20 | 45.60 | 106 | 15 | 3.0 | 3 | 0.32 |
| 737 | R. P. L. 114 | 6.9 | ... | 15 | 21 | 20.41 | 2 | 15 | 42.4 | 1 | 0.95 |
| 738 | ... .. | 9.0 | 1 | 15 | 22 | 42.68 | 151 | 37 | 40.5 | 2 | 0.46 |
| 739 | ... .. | 9.7 | 1 | 15 | 24 | 45.15 | 130 | 9 | 34.5 | 1 | 0.39 |
| 740 | ... .. | 8.3 | 1 | 15 | 25 | 11.94 | 122 | 44 | 14.9 | 1 | 0.51 |
| 741 | Lacaille 6421 | 7.8 | 2 | 15 | 25 | 50.25 | 122 | 43 | 10.8 | 2 | 0.50 |
| 742 | 38 Libræ γ | 4.0 | ... | 15 | 28 | 5.41 | 104 | 20 | 38.8 | 3 | 0.35 |
| 743 | 5 Carrington α (<i>Alpha</i>) | 2.4 | ... | 15 | 29 | 3.41 | 62 | 50 | 10.4 | 4 | 0.47 |
| 744 | ... .. | 10.0 | 1 | 15 | 29 | 10.22 | 119 | 38 | 26.6 | 1 | 0.51 |
| 745 | ... .. | 9.7 | 1 | 15 | 29 | 23.71 | 119 | 41 | 3.9 | 1 | 0.51 |
| 746 | Lalande 28530 | 8.0 | 1 | 15 | 31 | 56.46 | 47 | 25 | 55.4 | 1 | 0.37 |
| 747 | Taylor 7300 | 7.7 | 2 | 15 | 32 | 24.92 | 103 | 37 | 10.4 | 2 | 0.40 |
| 748 | ... .. | 9.9 | 1 | 15 | 33 | 47.51 | 126 | 35 | 48.5 | 1 | 0.39 |
| 749 | 24 Serpentis α | 2.7 | ... | 15 | 37 | 48.04 | 83 | 9 | 13.7 | 10 | 0.49 |
| 750 | O. A. S. 14874 | 8.0 | 1 | 15 | 39 | 38.29 | 104 | 49 | 12.1 | 1 | 0.40 |
| 751 | Lalande 28737 | 8.8 | 1 | 15 | 42 | 15.43 | 92 | 49 | 28.0 | 1 | 0.52 |
| 752 | ... .. | 9.5 | 1 | 15 | 42 | 19.88 | 104 | 24 | 56.6 | 1 | 0.39 |
| 753 | ... .. | 10.5 | 1 | 15 | 42 | 39.97 | 61 | 47 | 14.2 | 1 | 0.41 |
| 754 | O. A. S. 14934 | 9.7 | 1 | 15 | 42 | 59.76 | 107 | 52 | 58.2 | 1 | 0.51 |
| 755 | ... .. | 9.0 | 1 | 15 | 44 | 7.97 | 104 | 22 | 9.7 | 1 | 0.39 |
| 756 | W. B. E. XV. 838 | 8.0 | 1 | 15 | 44 | 9.90 | 104 | 27 | 34.5 | 1 | 0.43 |
| 757 | 36 Serpentis δ | 5.2 | ... | 15 | 44 | 20.20 | 92 | 41 | 9.3 | 1 | 0.52 |
| 758 | 46 Libræ θ | 4.3 | ... | 15 | 46 | 15.24 | 106 | 20 | 13.6 | 1 | 0.38 |
| 759 | O. A. S. 14996 | 8.9 | 1 | 15 | 46 | 41.14 | 105 | 16 | 1.1 | 1 | 0.40 |
| 760 | R. P. L. 115 | 6.9 | ... | 15 | 48 | 8.96 | 4 | 44 | 29.3 | 2 | 0.49 |
| 761 | O. A. S. 15053 | 8.0 | 2 | 15 | 49 | 12.33 | 105 | 26 | 29.7 | 2 | 0.50 |
| 762 | W. B. E. XV. 923 | 9.8 | 1 | 15 | 49 | 28.16 | 104 | 56 | 37.5 | 1 | 0.51 |
| 763 | O. A. S. 15146 | 9.5 | 1 | 15 | 54 | 57.22 | 107 | 29 | 20.3 | 1 | 0.39 |
| 764 | O. A. S. 15148 | 8.9 | 1 | 15 | 54 | 59.87 | 107 | 47 | 53.6 | 1 | 0.48 |
| 765 | W. B. E. XV. 1044 | 7.7 | 2 | 15 | 55 | 59.51 | 95 | 27 | 43.4 | 2 | 0.46 |
| 766 | 1 Scorpii β^1 | 2.9 | ... | 15 | 57 | 42.38 | 109 | 26 | 20.2 | 7 | 0.50 |
| 767 | Lalande 29806 | 8.0 | 1 | 15 | 59 | 36.58 | 107 | 34 | 29.4 | 1 | 0.49 |
| 768 | 14 Scorpii ν | 4.2 | ... | 16 | 4 | 16.02 | 109 | 6 | 45.7 | 4 | 0.49 |
| 769 | 1 Ophiuchi δ | 2.8 | ... | 16 | 7 | 22.62 | 93 | 20 | 59.5 | 2 | 0.50 |
| 770 | Lalande 29610 | 8.0 | ... | 16 | 8 | 20.45 | 105 | 32 | 59.9 | 1 | 0.52 |

737.—Groombridge 2283.

742.—Comparison star for Comet 2, 1867.

743.—765.—Comparison stars for Comet 2, 1862.

747.—750.—755.—756.—759.—761.—762.—Comparison stars for Asia in 1861.

751.—757.—770.—Comparison stars for Donati's Comet in 1858.

754.—763.—764.—767.—Comparison stars for Sylvia in 1866.

760.—Carrington 2380.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|-------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| | | <i>s</i> | <i>s</i> | <i>s</i> | " | " | " | |
| 736 | 32 Libræ ζ^1 ... | + 3·3715 | + 0·0148 | - 0·002 | + 12·840 | - 0·384 | + 0·05 | 5089 |
| 737 | R. P. L. 114 ... | - 22·9882 | + 7·7277 | ... | + 12·301 | + 2·575 | ... | 5140 |
| 738 | ... .. | + 4·9872 | + 0·0862 | ... | + 12·709 | - 0·587 | ... | ... |
| 739 | ... .. | + 3·9513 | + 0·0327 | ... | + 12·570 | - 0·454 | ... | ... |
| 740 | ... .. | + 3·7430 | + 0·0252 | ... | + 12·540 | - 0·431 | ... | ... |
| 741 | Lacaille 6421 ... | + 3·7440 | + 0·0252 | ... | + 12·495 | - 0·433 | ... | ... |
| 742 | 38 Libræ γ ... | + 3·3417 | + 0·0136 | + 0·002 | + 12·340 | - 0·389 | - 0·02 | 5134 |
| 743 | 5 Cor. Bor. α (Alpha.) | + 2·5295 | + 0·0023 | + 0·009 | + 12·274 | - 0·297 | + 0·07 | 5143 |
| 744 | ... .. | + 3·6740 | + 0·0224 | ... | + 12·266 | - 0·429 | ... | ... |
| 745 | ... .. | + 3·6755 | + 0·0224 | ... | + 12·249 | - 0·429 | ... | ... |
| 746 | Lalande 28530 ... | + 2·0916 | + 0·0025 | ... | + 12·073 | - 0·249 | ... | ... |
| 747 | Taylor 7300 ... | + 3·3312 | + 0·0131 | ... | + 12·040 | - 0·393 | ... | ... |
| 748 | ... .. | + 3·8697 | + 0·0278 | ... | + 11·944 | - 0·458 | ... | ... |
| 749 | 24 Serpentis α ... | + 2·9415 | + 0·0062 | + 0·009 | + 11·668 | - 0·354 | - 0·05 | 5196 |
| 750 | O. A. S. 14874 ... | + 3·3616 | + 0·0133 | ... | + 11·529 | - 0·405 | ... | ... |
| 751 | Lalande 28787 ... | + 3·1266 | + 0·0088 | ... | + 11·341 | - 0·381 | ... | ... |
| 752 | ... .. | + 3·3556 | + 0·0130 | ... | + 11·335 | - 0·409 | ... | ... |
| 753 | ... .. | + 2·4796 | + 0·0027 | ... | + 11·311 | - 0·304 | ... | ... |
| 754 | O. A. S. 14934 ... | + 3·4287 | + 0·0145 | ... | + 11·287 | - 0·418 | ... | ... |
| 755 | ... .. | + 3·3562 | + 0·0129 | ... | + 11·205 | - 0·411 | ... | ... |
| 756 | W. B. E. XV. 838 ... | + 3·3580 | + 0·0130 | ... | + 11·203 | - 0·411 | ... | ... |
| 757 | 36 Serpentis b ... | + 3·1242 | + 0·0037 | - 0·004 | + 11·190 | - 0·395 | + 0·02 | 5246 |
| 758 | 46 Libræ θ ... | + 3·3992 | + 0·0136 | + 0·009 | + 11·050 | - 0·413 | - 0·12 | 5257 |
| 759 | O. A. S. 14996 ... | + 3·3770 | + 0·0131 | ... | + 11·019 | - 0·416 | ... | ... |
| 760 | R. P. L. 115 ... | - 10·4533 | + 1·5433 | ... | + 10·912 | + 1·274 | ... | ... |
| 761 | O. A. S. 15053 ... | + 3·3829 | + 0·0131 | ... | + 10·884 | - 0·420 | ... | ... |
| 762 | W. B. E. XV. 923 ... | + 3·3726 | + 0·0128 | ... | + 10·815 | - 0·419 | ... | ... |
| 763 | O. A. S. 15146 ... | + 3·4322 | + 0·0135 | ... | + 10·407 | - 0·432 | ... | ... |
| 764 | O. A. S. 15148 ... | + 3·4390 | + 0·0137 | ... | + 10·404 | - 0·433 | ... | ... |
| 765 | W. B. E. XV. 1044 ... | + 3·1817 | + 0·0092 | ... | + 10·380 | - 0·402 | ... | ... |
| 766 | 8 Scorpii β^1 ... | + 3·4783 | + 0·0142 | - 0·002 | + 10·200 | - 0·441 | + 0·03 | 5329 |
| 767 | Lalande 20306 ... | + 3·4385 | + 0·0132 | ... | + 10·057 | - 0·433 | ... | ... |
| 768 | 14 Scorpii ν ... | + 3·4776 | + 0·0136 | - 0·002 | + 9·702 | - 0·443 | + 0·03 | 5332 |
| 769 | 1 Ophiuchi δ ... | + 3·1411 | + 0·0081 | - 0·006 | + 9·484 | - 0·403 | + 0·13 | 5414 |
| 770 | Lalande 29610 ... | + 3·4010 | + 0·0119 | ... | + 9·388 | - 0·442 | ... | ... |

736.—758.—Proper motions from "Greenwich Catalogue 1872."

757.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|-----------------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 771 | O. A. S. 15470 ... | 8.0 | 1 | 16 | 9 | 19.13 | 112 | 35 | 20.5 | 1 | 0.41 |
| 772 | R Scorpii Var. 1 ... | 9.5 | 2 | 16 | 9 | 43.59 | 112 | 36 | 49.3 | 2 | 0.51 |
| 773 | S Scorpii Var. 2 ... | 10.0 | 4 | 16 | 9 | 44.87 | 112 | 33 | 44.2 | 4 | 0.42 |
| 774 | ... .. | 8.7 | 1 | 16 | 9 | 53.80 | 112 | 34 | 4.3 | 1 | 0.51 |
| 775 | ... .. | 8.0 | 1 | 16 | 14 | 27.36 | 146 | 11 | 32.2 | 1 | 0.50 |
| 776 | 4 Ophiuchi ψ ... | 4.6 | ... | 16 | 16 | 19.36 | 109 | 43 | 25.2 | 2 | 0.45 |
| 777 | O. A. S. 15613 ... | 7.9 | 1 | 16 | 17 | 25.94 | 113 | 9 | 2.8 | 1 | 0.49 |
| 778 | 21 Scorpii α (Antares) ... | 1.1 | ... | 16 | 21 | 15.88 | 116 | 8 | 1.4 | 1 | 0.52 |
| 779 | 40 Herculis 3 ... | 3.1 | ... | 16 | 36 | 16.28 | 58 | 9 | 17.4 | 3 | 0.51 |
| 780 | Lacaille 6984 ... | 8.7 | 1 | 16 | 39 | 54.74 | 120 | 57 | 45.5 | 1 | 0.50 |
| 781 | ... .. | 9.3 | 1 | 16 | 44 | 47.50 | 130 | 18 | 30.3 | 1 | 0.51 |
| 782 | ... .. | 10.3 | 1 | 16 | 45 | 1.68 | 75 | 17 | 3.9 | 1 | 0.51 |
| 783 | Taylor 7815 ... | 7.5 | 1 | 16 | 45 | 42.30 | 130 | 18 | 13.2 | 1 | 0.51 |
| 784 | S Herculis Var. 3 ... | 6.9 | 1 | 16 | 45 | 50.51 | 74 | 49 | 57.9 | 1 | 0.59 |
| 785 | 49 Herculis ... | 7.0 | 1 | 16 | 46 | 1.33 | 74 | 48 | 3.2 | 1 | 0.50 |
| 786 | Taylor 7832 ... | 8.0 | 1 | 16 | 47 | 41.26 | 130 | 17 | 49.5 | 1 | 0.51 |
| 787 | Taylor 7842 ... | 6.8 | ... | 16 | 48 | 21.27 | 106 | 35 | 29.0 | 1 | 0.53 |
| 788 | ... .. | 8.0 | ... | 16 | 49 | 5.74 | 125 | 31 | 35.6 | 1 | 0.56 |
| 789 | 27 Ophiuchi κ ... | 3.4 | ... | 16 | 51 | 22.35 | 80 | 24 | 57.6 | 3 | 0.48 |
| 790 | 29 Ophiuchi ... | 6.8 | ... | 16 | 54 | 4.72 | 108 | 41 | 13.9 | 1 | 0.30 |
| 791 | O. A. S. 16233 ... | 8.0 | 1 | 16 | 54 | 9.45 | 110 | 23 | 50.8 | 1 | 0.58 |
| 792 | ... .. | 8.3 | 1 | 16 | 55 | 27.43 | 109 | 56 | 49.5 | 1 | 0.56 |
| 793 | O. A. S. 16288 ... | 7.7 | 1 | 16 | 56 | 39.03 | 119 | 50 | 24.5 | 1 | 0.61 |
| 794 | 22 Ursæ Minoris ϵ ... | 4.5 | ... | 16 | 59 | 42.41 | 7 | 44 | 59.5 | 2 | 0.07 |
| 795 | R Ophiuchi Var. 2 ... | 7.9 | 3 | 17 | 0 | 7.85 | 105 | 54 | 46.4 | 3 | 0.43 |
| 796 | 35 Ophiuchi η ... | 2.6 | ... | 17 | 2 | 44.95 | 105 | 33 | 26.5 | 2 | 0.49 |
| 797 | ... .. | 8.0 | 1 | 17 | 5 | 56.72 | 130 | 50 | 39.0 | 1 | 0.61 |
| 798 | ... .. | 9.0 | 1 | 17 | 6 | 19.26 | 130 | 54 | 14.7 | 1 | 0.58 |
| 799 | 64 Herculis α Var. 1 ... | 3.2 | ... | 17 | 8 | 34.96 | 75 | 27 | 21.8 | 3 | 0.52 |
| 800 | Taylor 8017 ... | 6.9 | 1 | 17 | 13 | 32.30 | 114 | 46 | 8.3 | 1 | 0.42 |
| 801 | 42 Ophiuchi θ ... | 3.4 | ... | 17 | 13 | 50.56 | 114 | 51 | 49.7 | 4 | 0.52 |
| 802 | ... .. | 8.5 | 2 | 17 | 21 | 16.71 | 130 | 43 | 45.4 | 2 | 0.58 |
| 803 | ... .. | 9.3 | 1 | 17 | 21 | 25.74 | 130 | 45 | 50.2 | 1 | 0.58 |
| 804 | ... .. | 9.7 | 1 | 17 | 27 | 14.81 | 150 | 35 | 48.1 | 1 | 0.58 |
| 805 | 23 Draconis β ... | 3.0 | ... | 17 | 27 | 25.61 | 37 | 35 | 57.1 | 1 | 0.60 |

771.—774.—Stars observed for map of R Scorpii Var. 1.
 772.—R Scorpii Var. 1.—Period 223 days.—Range, 9th to below 14th magnitude.
 773.—S Scorpii Var. 2.—Period 177 days.—Range, 9th to below 14th magnitude.
 777.—Comparison star for Angelina in 1866.
 784.—S Herculis Var. 3.—Period 303 days.—Range, 6th to 12th magnitude.
 791.—792.—Stars observed for map of T Serpentina Var. 4.
 795.—R Ophiuchi Var. 2.—Period 302 days.—Range, 7.5 to below 14th magnitude.
 799.— α Herculis Var. 1.—Changes irregularly between 3rd and 4th magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|-----------------------------------|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 771 | O. A. S. 15470 ... | + 3.5648 | + 0.0147 | ... | + 9.313 | - 0.464 | ... | ... |
| 772 | R Scorpii Var. 1. ... | + 3.5658 | + 0.0147 | ... | + 9.282 | - 0.465 | ... | ... |
| 773 | S Scorpii Var. 2. ... | + 3.5646 | + 0.0146 | ... | + 9.280 | - 0.465 | ... | ... |
| 774 | ... .. | + 3.5649 | + 0.0147 | ... | + 9.267 | - 0.465 | ... | ... |
| 775 | ... .. | + 4.8608 | + 0.0492 | ... | + 8.912 | - 0.638 | ... | ... |
| 776 | 4 Ophiuchi ψ | + 3.5032 | + 0.0128 | - 0.004 | + 8.766 | - 0.464 | + 0.06 | 5467 |
| 777 | O. A. S. 15613 ... | + 3.5875 | + 0.0141 | ... | + 8.679 | - 0.476 | ... | ... |
| 778 | 21 Scorpii α (Antares) ... | + 3.6681 | + 0.0150 | - 0.001 | + 8.376 | - 0.491 | + 0.08 | 5498 |
| 779 | 40 Herculis 3 ... | + 2.2964 | + 0.0033 | - 0.034 | + 7.165 | - 0.316 | - 0.45 | 5604 |
| 780 | Lacaille 6984 ... | + 3.8258 | + 0.0149 | ... | + 6.867 | - 0.528 | ... | 5622 |
| 781 | ... .. | + 4.1458 | + 0.0192 | ... | + 6.463 | - 0.575 | ... | ... |
| 782 | ... .. | + 2.7396 | + 0.0039 | ... | + 6.443 | - 0.381 | ... | ... |
| 783 | Taylor 7815 ... | + 4.1471 | + 0.0191 | ... | + 6.388 | - 0.576 | ... | ... |
| 784 | S Herculis Var. 3 ... | + 2.7825 | + 0.0039 | ... | + 6.376 | - 0.380 | ... | ... |
| 785 | 49 Herculis ... | + 2.7276 | + 0.0040 | - 0.001 | + 6.361 | - 0.381 | - 0.02 | 5674 |
| 786 | Taylor 7832 ... | + 4.1499 | + 0.0186 | ... | + 6.223 | - 0.573 | ... | ... |
| 787 | Taylor 7842 ... | + 3.4512 | + 0.0039 | ... | + 6.168 | - 0.482 | ... | 5695 |
| 788 | ... .. | + 3.9815 | + 0.0156 | ... | + 6.106 | - 0.556 | ... | ... |
| 789 | 27 Ophiuchi κ ... | + 2.8563 | + 0.0044 | - 0.023 | + 5.916 | - 0.402 | - 0.02 | 5708 |
| 790 | 29 Ophiuchi ... | + 3.5057 | + 0.0039 | - 0.001 | + 5.890 | - 0.492 | - 0.01 | 5728 |
| 791 | O. A. S. 16233 ... | + 3.5489 | + 0.0093 | ... | + 5.833 | - 0.498 | ... | ... |
| 792 | ... .. | + 3.5383 | + 0.0091 | ... | + 5.574 | - 0.498 | ... | ... |
| 793 | O. A. S. 16233 ... | + 3.8100 | + 0.0119 | ... | + 5.473 | - 0.537 | ... | ... |
| 794 | 22 Ursæ Minoris ϵ ... | - 6.4154 | + 0.3043 | + 0.009 | + 5.215 | + 0.901 | - 0.01 | 5780 |
| 795 | R Ophiuchi Var. 2 ... | + 3.4404 | + 0.0077 | ... | + 5.179 | - 0.487 | ... | ... |
| 796 | 35 Ophiuchi η ... | + 3.4327 | + 0.0073 | + 0.001 | + 4.958 | - 0.487 | - 0.12 | 5781 |
| 797 | ... .. | + 4.1960 | + 0.0148 | ... | + 4.836 | - 0.597 | ... | ... |
| 798 | ... .. | + 4.1987 | + 0.0146 | ... | + 4.655 | - 0.598 | ... | ... |
| 799 | 64 Herculis α Var. 1... .. | + 2.7339 | + 0.0035 | - 0.003 | + 4.461 | - 0.391 | - 0.04 | 5281 |
| 800 | Taylor 8017 ... | + 3.6764 | + 0.0030 | ... | + 4.037 | - 0.527 | ... | 5846 |
| 801 | 42 Ophiuchi θ ... | + 3.6791 | + 0.0030 | - 0.003 | + 4.012 | - 0.528 | - 0.02 | 5851 |
| 802 | ... .. | + 4.2069 | + 0.0111 | ... | + 3.372 | - 0.605 | ... | ... |
| 803 | ... .. | + 4.2084 | + 0.0111 | ... | + 3.359 | - 0.606 | ... | ... |
| 804 | ... .. | + 5.4203 | + 0.0219 | ... | + 2.855 | - 0.783 | ... | ... |
| 805 | 23 Draconis β ... | + 1.3534 | + 0.0052 | - 0.003 | + 2.841 | - 0.197 | 0.00 | 5937 |

789.—Proper motions from "Greenwich Catalogue 1872."
 790.—Proper motions from "Greenwich Catalogue 1864."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|---|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 806 | 55 Ophiuchi α | 2.2 | ... | 17 | 28 | 45.61 | 77 | 20 | 28.0 | 8 | 0.55 |
| 807 | Taylor 8141 | 6.0 | 1 | 17 | 30 | 45.68 | 111 | 49 | 52.0 | 1 | 0.30 |
| 808 | ... .. | 9.9 | 2 | 17 | 34 | 46.38 | 128 | 35 | 29.0 | 2 | 0.61 |
| 809 | ... .. | 9.9 | 1 | 17 | 34 | 46.51 | 126 | 15 | 7.4 | 1 | 0.56 |
| 810 | ... .. | 9.2 | 1 | 17 | 36 | 18.98 | 150 | 36 | 11.8 | 1 | 0.51 |
| 811 | 58 Ophiuchi | 5.0 | ... | 17 | 36 | 27.93 | 111 | 36 | 55.7 | 1 | 0.30 |
| 812 | ... .. | 9.4 | 1 | 17 | 36 | 39.44 | 150 | 37 | 13.4 | 1 | 0.51 |
| 813 | ... .. | 9.0 | 1 | 17 | 37 | 52.05 | 126 | 29 | 24.4 | 1 | 0.58 |
| 814 | ... .. | 8.0 | 1 | 17 | 39 | 45.53 | 127 | 21 | 43.8 | 1 | 0.52 |
| 815 | ... .. | 8.0 | 1 | 17 | 39 | 56.07 | 127 | 14 | 41.1 | 1 | 0.56 |
| 816 | ... .. | 8.3 | 1 | 17 | 40 | 7.93 | 126 | 28 | 26.9 | 1 | 0.60 |
| 817 | 86 Herculis μ | 3.5 | ... | 17 | 41 | 15.21 | 62 | 11 | 59.4 | 6 | 0.54 |
| 818 | Radcliffe 3765 | 8.3 | 1 | 17 | 43 | 41.47 | 17 | 32 | 1.3 | 1 | 0.58 |
| 819 | ... .. | 8.6 | 2 | 17 | 45 | 13.75 | 128 | 35 | 22.5 | 3 | 0.53 |
| 820 | Lacaille 7499 | 7.1 | 3 | 17 | 48 | 27.76 | 129 | 4 | 44.4 | 3 | 0.60 |
| 821 | Taylor 8288 | 6.0 | 1 | 17 | 48 | 40.02 | 105 | 47 | 10.7 | 1 | 0.46 |
| 822 | Lacaille 7504 | 6.9 | 1 | 17 | 48 | 44.46 | 129 | 6 | 53.1 | 1 | 0.59 |
| 823 | 4 Sagittarii b | 4.6 | ... | 17 | 51 | 40.31 | 113 | 48 | 1.8 | 1 | 0.64 |
| 824 | ... .. | 9.0 | 2 | 17 | 59 | 36.77 | 150 | 26 | 10.2 | 2 | 0.57 |
| 825 | 13 Sagittarii μ^1 | 4.1 | ... | 18 | 5 | 48.46 | 111 | 5 | 26.9 | 9 | 0.56 |
| 826 | Lacaille 7644 | 6.7 | 1 | 18 | 9 | 9.68 | 132 | 19 | 59.6 | 1 | 0.52 |
| 827 | ... .. | 8.8 | 1 | 18 | 18 | 7.00 | 127 | 48 | 58.4 | 1 | 0.58 |
| 828 | 28 Ursæ Minoris δ | 4.3 | ... | 18 | 15 | 14.99 | 3 | 23 | 41.4 | 4 | 0.42 |
| 829 | 21 Sagittarii | 4.9 | ... | 18 | 17 | 25.61 | 110 | 36 | 36.7 | 1 | 0.52 |
| 830 | Taylor 8509 | 4.7 | ... | 18 | 21 | 36.94 | 104 | 38 | 52.2 | 2 | 0.56 |
| 831 | ... .. | 9.0 | ... | 18 | 23 | 14.79 | 135 | 15 | 42.2 | 1 | 0.58 |
| 832 | 6 Coronæ Australis | 6.6 | 1 | 18 | 23 | 59.97 | 132 | 24 | 17.6 | 1 | 0.59 |
| 833 | ... .. | 10.3 | 1 | 18 | 29 | 30.43 | 136 | 55 | 20.1 | 1 | 0.51 |
| 834 | ... .. | 9.0 | 2 | 18 | 29 | 39.22 | 135 | 51 | 47.2 | 2 | 0.54 |
| 835 | 3 Lyreæ α (<i>Vega</i>) | 0.2 | ... | 18 | 32 | 26.04 | 51 | 20 | 19.3 | 5 | 0.59 |
| 836 | ... .. | 9.3 | 1 | 18 | 35 | 12.89 | 137 | 16 | 7.4 | 1 | 0.52 |
| 837 | ... .. | 9.3 | 1 | 18 | 36 | 2.46 | 137 | 10 | 52.1 | 1 | 0.56 |
| 838 | ... .. | 9.0 | 1 | 18 | 40 | 37.19 | 127 | 27 | 25.8 | 1 | 0.66 |
| 839 | 10 Lyreæ β Var. 1... .. | 3.6 | ... | 18 | 45 | 10.07 | 56 | 47 | 25.0 | 13 | 0.59 |
| 840 | ... .. | 8.2 | 1 | 18 | 46 | 2.94 | 126 | 40 | 44.3 | 1 | 0.51 |

809.—813.—814.—815.—819.—820.—822.—832.—834.—836.—837.—Comparison stars for Donati's Comet of 1858.

839.— β Lyreæ Var. 1.—Period 12.91 days.—Range, 3.5 to 4.5 magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|-------------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 806 | 55 Ophiuchi α ... | + 2.7746 | + 0.0030 | + 0.04 | + 2.725 | - 0.402 | + 0.20 | 5941 |
| 807 | Taylor 8141 ... | + 3.6033 | + 0.0054 | ... | + 2.552 | - 0.522 | ... | 5954 |
| 808 | ... .. | + 4.1326 | + 0.0072 | ... | + 2.203 | - 0.600 | ... | ... |
| 809 | ... .. | + 4.0467 | + 0.0069 | ... | + 2.203 | - 0.587 | ... | ... |
| 810 | ... .. | + 5.4325 | + 0.0162 | ... | + 2.068 | - 0.797 | ... | ... |
| 811 | 58 Ophiuchi ... | + 3.5989 | + 0.0050 | - 0.010 | + 2.143 | - 0.523 | - 0.04 | 5987 |
| 812 | ... .. | + 5.4346 | + 0.0155 | ... | + 2.039 | - 0.790 | ... | ... |
| 813 | ... .. | + 4.0565 | + 0.0064 | ... | + 1.934 | - 0.590 | ... | ... |
| 814 | ... .. | + 4.0889 | + 0.0060 | ... | + 1.768 | - 0.595 | ... | ... |
| 815 | ... .. | + 4.0848 | + 0.0060 | ... | + 1.753 | - 0.594 | ... | ... |
| 816 | ... .. | + 4.0568 | + 0.0057 | ... | + 1.736 | - 0.591 | ... | ... |
| 817 | 86 Herculis μ ... | + 2.3695 | + 0.0025 | - 0.026 | + 1.639 | - 0.346 | + 0.74 | 6021 |
| 818 | Radcliffe 3765 ... | - 1.1489 | + 0.0163 | ... | + 1.426 | + 0.166 | ... | ... |
| 819 | ... .. | + 4.1368 | + 0.0049 | ... | + 1.292 | - 0.603 | ... | ... |
| 820 | Lacaille 7499 ... | + 4.1565 | + 0.0042 | ... | + 1.009 | - 0.605 | ... | ... |
| 821 | Taylor 8288 ... | + 3.4496 | + 0.0029 | ... | + 0.991 | - 0.503 | ... | 6065 |
| 822 | Lacaille 7504 ... | + 4.1580 | + 0.0042 | ... | + 0.985 | - 0.606 | ... | ... |
| 823 | 4 Sagittarii b ... | + 3.6615 | + 0.0028 | - 0.005 | + 0.729 | - 0.584 | + 0.04 | 6077 |
| 824 | ... .. | + 5.4292 | + 0.0012 | ... | + 0.034 | - 0.792 | ... | ... |
| 825 | 13 Sagittarii μ^1 ... | + 3.5376 | + 0.0009 | - 0.004 | - 0.508 | - 0.523 | + 0.01 | 6168 |
| 826 | Lacaille 7644 ... | + 4.2892 | - 0.0010 | ... | - 0.801 | - 0.625 | ... | ... |
| 827 | ... .. | + 4.1081 | - 0.0015 | ... | - 1.147 | - 0.598 | ... | ... |
| 828 | 23 Ursæ Minoris δ ... | - 19.4138 | - 0.4457 | + 0.048 | - 1.333 | + 2.331 | - 0.03 | 6281 |
| 829 | 21 Sagittarii ... | + 3.5735 | - 0.0004 | - 0.008 | - 1.523 | - 0.519 | + 0.02 | 6247 |
| 830 | Taylor 8509 ... | + 3.4200 | - 0.0003 | ... | - 1.889 | - 0.436 | ... | 6279 |
| 831 | ... .. | + 4.4145 | - 0.0059 | ... | - 2.016 | - 0.640 | ... | ... |
| 832 | 8 Coronæ Australis ... | + 4.2365 | - 0.0049 | 0.000 | - 2.096 | - 0.620 | - 0.03 | 6296 |
| 833 | ... .. | + 4.4901 | - 0.0082 | ... | - 2.575 | - 0.649 | ... | ... |
| 834 | ... .. | + 4.4385 | - 0.0080 | ... | - 2.588 | - 0.641 | ... | ... |
| 835 | 3 Lyræ α (<i>Vega</i>) ... | + 2.0131 | + 0.0016 | + 0.017 | - 2.329 | - 0.290 | - 0.28 | 6355 |
| 836 | ... .. | + 4.5024 | - 0.0103 | ... | - 3.069 | - 0.643 | ... | ... |
| 837 | ... .. | + 4.4972 | - 0.0103 | ... | - 3.141 | - 0.647 | ... | ... |
| 838 | ... .. | + 4.0804 | - 0.0075 | ... | - 3.536 | - 0.584 | ... | ... |
| 839 | 10 Lyræ β Var. 1 ... | + 2.2138 | + 0.0015 | - 0.002 | - 3.927 | - 0.315 | + 0.03 | 6429 |
| 840 | ... .. | + 4.0479 | - 0.0084 | ... | - 4.002 | - 0.576 | ... | ... |

832.—Proper motions from "Stone's Caps Catalogue."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|------------------------------------|------------|--------------|-----------------------|----|------------------|----------------------|---------------|-----------------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 841 | Lacaille 7519 | 8.0 | 1 | 18 | 47 | 55.84 | 129 | 4 | 56.6 | 1 | 0.66 |
| 842 | O. A. S. 18960 | 7.0 | 1 | 18 | 53 | 49.98 | 121 | 7 | 25.2 | 1 | 0.64 |
| 843 | 39 Sagittarii ϵ | 3.9 | ... | 18 | 56 | 42.66 | 111 | 56 | 0.9 | 1 | 0.46 |
| 844 | 17 Aquilæ ζ | 3.1 | ... | 18 | 59 | 17.71 | 76 | 19 | 56.0 | 12 | 0.59 |
| 845 | 21 Sagittarii π | 3.1 | ... | 19 | 1 | 51.16 | 111 | 13 | 56.5 | 1 | 0.46 |
| 846 | ... .. | 9.3 | 2 | 19 | 5 | 21.12 | 126 | 28 | 0.4 | 2 | 0.65 |
| 847 | ... .. | 9.0 | ... | 19 | 7 | 18.69 | 129 | 47 | 25.3 | 1 | 0.56 |
| 848 | ... .. | 9.7 | ... | 19 | 8 | 30.65 | 129 | 48 | 45.5 | 1 | 0.56 |
| 849 | ... .. | 8.3 | 1 | 19 | 10 | 19.98 | 146 | 12 | 40.1 | 1 | 0.66 |
| 850 | 25 Aquilæ ω | 5.1 | ... | 19 | 11 | 34.93 | 78 | 38 | 32.0 | 6 | 0.60 |
| 851 | 30 Aquilæ δ | 3.5 | ... | 19 | 18 | 47.43 | 87 | 8 | 53.1 | 7 | 0.57 |
| 852 | ... .. | 9.3 | 1 | 19 | 19 | 21.58 | 128 | 38 | 7.2 | 1 | 0.66 |
| 853 | ... .. | 9.0 | 1 | 19 | 25 | 22.14 | 127 | 48 | 53.8 | 1 | 0.66 |
| 854 | 52 Sagittarii λ^2 | 4.6 | 2 | 19 | 28 | 36.55 | 115 | 10 | 28.0 | 2 | 0.64 |
| 855 | ... .. | 8.0 | 1 | 19 | 31 | 11.37 | 127 | 42 | 5.7 | 1 | 0.66 |
| 856 | ... .. | 8.0 | 1 | 19 | 34 | 2.07 | 127 | 44 | 53.3 | 1 | 0.66 |
| 857 | 55 Sagittarii ϵ^2 | 5.0 | ... | 19 | 34 | 54.46 | 106 | 25 | 59.4 | 1 | 0.46 |
| 858 | 50 Aquilæ γ | 2.8 | ... | 19 | 39 | 56.08 | 79 | 42 | 31.5 | 6 | 0.63 |
| 859 | O. A. S. 19996 | 9.5 | 1 | 19 | 42 | 27.58 | 108 | 11 | 37.3 | 1 | 0.54 |
| 860 | 53 Aquilæ α (Altair) | 1.0 | ... | 19 | 44 | 17.51 | 81 | 28 | 50.1 | 4 | 0.61 |
| 861 | 55 Aquilæ η Var. 1 | 3.9 | ... | 19 | 45 | 41.71 | 89 | 20 | 1.2 | 1 | 0.69 |
| 862 | 60 Aquilæ β | 4.0 | ... | 19 | 48 | 46.71 | 83 | 55 | 24.0 | 7 | 0.53 |
| 863 | λ Ursæ Minoris | 6.5 | ... | 19 | 57 | 13.56 | 1 | 5 | 24.7 | 6 | 0.34 |
| 864 | ... .. | 9.3 | 1 | 19 | 59 | 27.77 | 129 | 10 | 55.1 | 1 | 0.66 |
| 865 | O. A. N. 20046 | 9.5 | 1 | 20 | 2 | 43.30 | 32 | 23 | 1.4 | 1 | 0.55 |
| 866 | ... .. | ... | ... | 20 | 5 | 31.03 | 74 | 47 | 53.3 | 1 | 0.66 |
| 867 | Lacaille 8370 | 7.6 | 1 | 20 | 7 | 13.98 | 152 | 18 | 42.3 | 1 | 0.75 |
| 868 | O. A. S. 20356 | 9.0 | 1 | 20 | 8 | 31.97 | 110 | 25 | 36.6 | 1 | 0.62 |
| 869 | 6 Capricorni α^2 | 3.8 | ... | 20 | 10 | 40.30 | 102 | 57 | 17.9 | 5 | 0.65 |
| 870 | ... .. | 7.6 | 1 | 20 | 11 | 25.51 | 106 | 16 | 10.7 | 1 | 0.75 |
| 871 | Lalande 39045 | 5.5 | ... | 20 | 12 | 11.36 | 50 | 2 | 39.0 | 1 | 0.76 |
| 872 | 34 Cygni Var. 1 | 6.0 | 1 | 20 | 12 | 53.06 | 52 | 22 | 45.4 | 1 | 0.63 |
| 873 | 9 Capricorni β | 3.4 | ... | 20 | 13 | 32.06 | 105 | 11 | 56.7 | 2 | 0.46 |
| 874 | Lalande 39125 | 8.0 | 1 | 20 | 15 | 41.33 | 106 | 12 | 48.0 | 1 | 0.55 |
| 875 | ... .. | 9.0 | 1 | 20 | 15 | 54.03 | 106 | 13 | 51.2 | 1 | 0.75 |

— 17 5.1

842.—Comparison star for Eurydyce in 1866.
 861.— η Aquilæ Var. 1.—Period 7.176 days.—Range, 3.5 to 4.7 magnitude.
 865.—The *n. f.* companion of S Cygni Var. 4.
 866.—The *s. f.* companion of S Aquilæ Var. 4.
 868.—Comparison star for Parthenope in 1862.
 870.—874.—875.—Comparison stars for Hestia in 1865.
 872.—34 Cygni Var. 1.—Supposed to vary from 3rd to 6th magnitude in several years.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 841 | Lacaille 7519 ... | + 4.1343 | - 0.0098 | ... | - 4.163 | - 0.588 | ... | ... |
| 842 | O. A. S. 18960 ... | + 3.8572 | - 0.0077 | ... | - 4.667 | - 0.545 | ... | ... |
| 843 | 39 Sagittarii σ ... | + 3.5942 | - 0.0053 | + 0.001 | - 4.912 | - 0.506 | + 0.05 | 6507 |
| 844 | 17 Aquilæ 3 ... | + 2.7578 | + 0.0003 | - 0.006 | - 5.131 | - 3.387 | + 0.07 | 6528 |
| 845 | 41 Sagittarii π ... | + 3.5728 | - 0.0057 | - 0.004 | - 5.347 | - 0.500 | + 0.03 | 6548 |
| 846 | ... .. | + 4.0203 | - 0.0121 | ... | - 5.641 | - 0.560 | ... | ... |
| 847 | ... .. | + 4.1380 | - 0.0144 | ... | - 5.806 | - 0.576 | ... | ... |
| 848 | ... .. | + 4.1371 | - 0.0146 | ... | - 5.907 | - 0.574 | ... | ... |
| 849 | ... .. | + 4.9767 | - 0.0323 | ... | - 6.053 | - 0.689 | ... | ... |
| 850 | 25 Aquilæ ω ... | + 2.8165 | - 0.0003 | - 0.003 | - 6.162 | - 0.388 | - 0.02 | 6595 |
| 851 | 30 Aquilæ δ ... | + 3.0093 | - 0.0013 | + 0.014 | - 6.760 | - 0.410 | - 0.10 | 6646 |
| 852 | ... .. | + 4.0773 | - 0.0161 | ... | - 6.806 | - 0.556 | ... | ... |
| 853 | ... .. | + 4.0336 | - 0.0167 | ... | - 7.299 | - 0.545 | ... | ... |
| 854 | 52 Sagittarii h^2 ... | + 3.6540 | - 0.0102 | + 0.002 | - 7.563 | - 0.490 | - 0.02 | 6706 |
| 855 | ... .. | + 4.0248 | - 0.0176 | ... | - 7.771 | - 0.533 | ... | ... |
| 856 | ... .. | + 4.0213 | - 0.0182 | ... | - 8.000 | - 0.535 | ... | ... |
| 857 | 55 Sagittarii e^2 ... | + 3.4332 | - 0.0075 | + 0.001 | - 8.069 | - 0.456 | - 0.02 | 6742 |
| 858 | 50 Aquilæ γ ... | + 2.8520 | - 0.0011 | + 0.001 | - 8.470 | - 0.373 | 0.00 | 6772 |
| 859 | O. A. S. 19996 ... | + 3.4633 | - 0.0087 | ... | - 8.670 | - 0.452 | ... | ... |
| 860 | 53 Aquilæ α (<i>Altair</i>). ... | + 2.8921 | - 0.0014 | + 0.036 | - 8.315 | - 0.374 | - 0.38 | 6802 |
| 861 | 55 Aquilæ η Var. 1 ... | + 3.0582 | - 0.0031 | - 0.001 | - 8.924 | - 0.326 | + 0.04 | 6821 |
| 862 | 60 Aquilæ β ... | + 2.9455 | - 0.0020 | + 0.002 | - 9.166 | - 0.373 | + 0.47 | 6833 |
| 863 | λ Ursæ Minoris ... | - 58.1926 | - 29.5534 | - 0.035 | - 9.187 | + 7.405 | - 0.61 | 6899 |
| 864 | ... .. | + 4.0171 | - 0.0233 | ... | - 9.987 | - 0.504 | ... | ... |
| 865 | O. A. N. 20046 ... | + 1.2592 | - 0.0074 | ... | - 10.233 | - 0.154 | ... | ... |
| 866 | ... .. | + 2.7618 | - 0.0004 | ... | - 10.443 | - 0.339 | ... | ... |
| 867 | Lacaille 8370 ... | + 5.2372 | - 0.0772 | ... | - 10.571 | - 0.643 | ... | 6946 |
| 868 | O. A. S. 20356 ... | + 3.4937 | - 0.0116 | ... | - 10.667 | - 0.427 | ... | ... |
| 869 | 6 Capricorni α^2 ... | + 3.3310 | - 0.0084 | + 0.001 | - 10.826 | - 0.403 | 0.00 | 6974 |
| 870 | ... .. | + 3.3999 | - 0.0093 | ... | - 10.880 | - 0.412 | ... | ... |
| 871 | Lalande 39045 ... | + 2.1332 | + 0.0017 | ... | - 10.937 | - 0.256 | ... | 6986 |
| 872 | 34 Cygni Var. 1 ... | + 2.2102 | + 0.0019 | ... | - 10.988 | - 0.265 | ... | 6990 |
| 873 | 9 Capricorni β ... | + 3.3754 | - 0.0095 | - 0.001 | - 11.035 | - 0.406 | - 0.03 | 6995 |
| 874 | Lalande 39125 ... | + 3.3947 | - 0.0101 | ... | - 11.035 | - 0.406 | ... | ... |
| 875 | ... .. | + 3.3959 | - 0.0101 | ... | - 11.207 | - 0.406 | ... | ... |

11.192

Mean Positions of Stars for 1867 January 1st. •

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|-------------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 876 | ... .. | 9.8 | 1 | 20 | 17 | 1.92 | 121 | 11 | 13.7 | 1 | 0.65 |
| 877 | 11 Capricorni ρ ... | 5.0 | ... | 20 | 21 | 16.20 | 108 | 15 | 4.5 | 9 | 0.61 |
| 878- | ... .. | 8.6 | 2 | 20 | 23 | 10.13 | 125 | 57 | 53.1 | 2 | 0.75 |
| 879 | ... .. | 8.7 | 1 | 20 | 23 | 27.08 | 124 | 56 | 27.3 | 1 | 0.55 |
| 880 | Talande 39525 ... | 7.0 | 1 | 20 | 25 | 5.04 | 86 | 1 | 54.2 | 1 | 0.75 |
| 881 | ... .. | 9.0 | ... | 20 | 26 | 32.29 | 121 | 12 | 4.1 | 1 | 0.54 |
| 882 | ... .. | 9.0 | 1 | 20 | 27 | 24.47 | 121 | 5 | 21.7 | 1 | 0.62 |
| 883 | ... .. | 9.5 | 1 | 20 | 28 | 54.11 | 121 | 5 | 54.5 | 1 | 0.62 |
| 884 | ... .. | 9.0 | 1 | 20 | 29 | 59.00 | 143 | 51 | 26.6 | 1 | 0.73 |
| 885 | ... .. | 9.3 | 1 | 20 | 31 | 42.69 | 124 | 40 | 12.9 | 1 | 0.55 |
| 886 | Taylor 9518 ... | 7.1 | 2 | 20 | 32 | 6.37 | 105 | 26 | 26.8 | 2 | 0.65 |
| 887 | ... .. | 9.0 | 2 | 20 | 34 | 52.00 | 128 | 18 | 8.3 | 2 | 0.74 |
| 888 | ... .. | 8.6 | 1 | 20 | 35 | 58.17 | 124 | 59 | 44.1 | 1 | 0.75 |
| 889 | ... .. | 8.5 | 1 | 20 | 36 | 46.45 | 148 | 22 | 57.3 | 2 | 0.72 |
| 890 | 50 Cygni α (Deneb) ... | 1.5 | ... | 20 | 36 | 53.82 | 45 | 11 | 38.8 | 4 | 0.62 |
| 891 | ... .. | 10.4 | 1 | 20 | 39 | 23.25 | 74 | 4 | 49.4 | 1 | 0.73 |
| 892 | O. A. S. 20841 ... | 7.9 | 3 | 20 | 39 | 23.83 | 116 | 53 | 58.9 | 3 | 0.76 |
| 893 | 2 Aquarii ϵ ... | 3.8 | ... | 20 | 40 | 28.45 | 99 | 58 | 50.5 | 1 | 0.64 |
| 894 | ... .. | 9.3 | 1 | 20 | 43 | 48.16 | 124 | 57 | 31.1 | 1 | 0.73 |
| 895 | 6 Aquarii μ ... | 4.8 | ... | 20 | 45 | 28.84 | 99 | 28 | 50.9 | 1 | 0.72 |
| 896 | 32 Vulpeculæ ... | 5.1 | ... | 20 | 48 | 53.47 | 62 | 26 | 49.3 | 9 | 0.71 |
| 897 | ... .. | 9.0 | 1 | 20 | 50 | 55.09 | 148 | 45 | 10.8 | 1 | 0.75 |
| 898 | Lacaille 8680 ... | 7.0 | 1 | 20 | 51 | 35.61 | 126 | 38 | 31.4 | 1 | 0.74 |
| 899 | ... .. | 9.6 | 2 | 20 | 57 | 56.21 | 120 | 24 | 37.2 | 2 | 0.74 |
| 900 | 3 Microscopii ... | 6.8 | 2 | 20 | 57 | 59.04 | 120 | 39 | 4.2 | 3 | 0.75 |
| 901 | 23 Capricorni θ ... | 4.3 | ... | 20 | 58 | 28.27 | 107 | 45 | 34.9 | 1 | 0.77 |
| 902 | ... .. | 9.7 | 1 | 20 | 59 | 53.89 | 129 | 0 | 47.2 | 2 | 0.63 |
| 903 | ... .. | 9.0 | 2 | 21 | 0 | 44.06 | 120 | 4 | 3.4 | 2 | 0.77 |
| 904 | 61 Cygni ... 1st... | 5.5 | ... | 21 | 0 | 56.13 | 51 | 54 | 12.7 | 3 | 0.73 |
| 905 | 61 Cygni ... 2nd... | 6.3 | ... | 21 | 0 | 57.49 | 51 | 54 | 18.6 | 1 | 0.72 |
| 906 | ... .. | 9.1 | 2 | 21 | 1 | 22.25 | 119 | 59 | 41.9 | 2 | 0.75 |
| 907 | 13 Aquarii ν ... | 4.6 | ... | 21 | 2 | 20.77 | 101 | 54 | 30.6 | 2 | 0.66 |
| 908 | 64 Cygni 3 ... | 3.5 | ... | 21 | 7 | 16.50 | 60 | 19 | 3.2 | 8 | 0.67 |
| 909 | ... .. | 9.4 | 2 | 21 | 13 | 59.50 | 123 | 59 | 34.9 | 2 | 0.68 |
| 910 | ... .. | 7.8 | 1 | 21 | 14 | 30.54 | 125 | 28 | 38.2 | 2 | 0.69 |

892.—Comparison star for Undine in 1867.

899.—900.—903.—906.—Comparison stars for Sylvia in 1867.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|------------------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 876 | ... .. | + 3.7410 | - 0.0191 | ... | - 11.289 | - 0.447 | ... | ... |
| 877 | 11 Capricorni ρ | + 3.4318 | - 0.0115 | - 0.006 | - 11.594 | - 0.408 | + 0.01 | 7042 |
| 878 | ... .. | + 3.8590 | - 0.0237 | ... | - 11.729 | - 0.451 | ... | ... |
| 879 | ... .. | + 3.8291 | - 0.0229 | ... | - 11.749 | - 0.447 | ... | ... |
| 880 | Lalande 39525 | + 2.9973 | - 0.0031 | ... | - 11.865 | - 0.347 | ... | ... |
| 881 | ... .. | + 3.7219 | - 0.0200 | ... | - 11.966 | - 0.481 | ... | ... |
| 882 | ... .. | + 3.7172 | - 0.0200 | ... | - 12.028 | - 0.429 | ... | ... |
| 883 | ... .. | + 3.7143 | - 0.0201 | ... | - 12.182 | - 0.427 | ... | ... |
| 884 | ... .. | + 4.5245 | - 0.0535 | ... | - 12.207 | - 0.519 | ... | ... |
| 885 | ... .. | + 3.8015 | - 0.0234 | ... | - 12.327 | - 0.482 | ... | ... |
| 886 | Taylor 9518 | + 3.8630 | - 0.0106 | ... | - 12.354 | - 0.381 | ... | ... |
| 887 | ... .. | + 3.8936 | - 0.0275 | ... | - 12.544 | - 0.438 | ... | ... |
| 888 | ... .. | + 3.7997 | - 0.0242 | ... | - 12.618 | - 0.426 | ... | ... |
| 889 | ... .. | + 4.7553 | - 0.0694 | ... | - 12.674 | - 0.533 | ... | ... |
| 890 | 50 Cygni α (<i>Deneb</i>) | + 2.0433 | + 0.0021 | - 0.002 | - 12.682 | - 0.226 | 0.00 | 7171 |
| 891 | ... .. | + 2.7793 | 0.0000 | ... | - 12.850 | - 0.305 | ... | ... |
| 892 | O. A. S. 20341 | + 3.5928 | - 0.0177 | ... | - 12.851 | - 0.397 | ... | ... |
| 893 | 2 Aquarii ϵ | + 3.2520 | - 0.0084 | - 0.001 | - 12.923 | - 0.356 | + 0.01 | 7196 |
| 894 | ... .. | + 3.7731 | - 0.0243 | ... | - 13.144 | - 0.410 | ... | ... |
| 895 | 6 Aquarii μ | + 3.2396 | - 0.0083 | 0.000 | - 13.243 | - 0.349 | + 0.04 | 7239 |
| 896 | 32 Vulpeculæ | + 2.5555 | + 0.0026 | - 0.002 | - 13.477 | - 0.270 | 0.00 | 7256 |
| 897 | ... .. | + 4.6909 | - 0.0739 | ... | - 13.603 | - 0.437 | ... | ... |
| 898 | Lacaille 8630 | + 3.8006 | - 0.0272 | ... | - 13.651 | - 0.400 | ... | ... |
| 899 | ... .. | + 3.6320 | - 0.0215 | ... | - 14.053 | - 0.372 | ... | ... |
| 900 | δ Microscopii | + 3.6372 | - 0.0213 | ... | - 14.056 | - 0.373 | ... | 7316 |
| 901 | 23 Capricorni θ | + 3.3768 | - 0.0123 | + 0.004 | - 14.085 | - 0.344 | + 0.05 | 7322 |
| 902 | ... .. | + 3.3384 | - 0.0306 | ... | - 14.175 | - 0.391 | ... | ... |
| 903 | ... .. | + 3.6177 | - 0.0215 | ... | - 14.226 | - 0.366 | ... | ... |
| 904 | 61 Cygni ... 1st... | + 2.3338 | + 0.0044 | + 0.339 | - 14.241 | - 0.233 | - 3.22 | 7336 |
| 905 | 61 Cygni ... 2nd... | + 2.3340 | + 0.0044 | + 0.339 | - 14.244 | - 0.233 | - 3.22 | 7337 |
| 906 | ... .. | + 3.6145 | - 0.0214 | ... | - 14.266 | - 0.365 | ... | ... |
| 907 | 13 Aquarii ν | + 3.2695 | - 0.0093 | + 0.001 | - 14.326 | - 0.328 | + 0.01 | 7344 |
| 908 | 64 Cygni 3 | + 2.5503 | + 0.0033 | + 0.003 | - 14.324 | - 0.248 | + 0.07 | 7363 |
| 909 | ... .. | + 3.7894 | - 0.0315 | ... | - 15.022 | - 0.360 | ... | ... |
| 910 | ... .. | + 3.7019 | - 0.0274 | ... | - 15.050 | - 0.351 | ... | ... |

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|------------------------------|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h | m | s | ° | ' | " | | |
| 911 | 32 Capricorni ϵ ... | 4.4 | ... | 21 | 14 | 50.15 | 107 | 23 | 57.5 | 3 | 0.62 |
| 912 | ... .. | 9.1 | 2 | 21 | 18 | 48.44 | 153 | 51 | 48.9 | 3 | 0.69 |
| 913 | ... .. | 7.9 | 1 | 21 | 20 | 19.50 | 150 | 47 | 4.9 | 1 | 0.75 |
| 914 | ... .. | 8.0 | 2 | 21 | 21 | 21.72 | 123 | 55 | 32.2 | 2 | 0.69 |
| 915 | Lacaille 8829 ... | 7.2 | 2 | 21 | 22 | 46.50 | 127 | 7 | 46.8 | 2 | 0.67 |
| 916 | ... .. | 9.9 | 1 | 21 | 23 | 7.98 | 110 | 6 | 41.8 | 1 | 0.76 |
| 917 | 22 Aquarii β ... | 3.1 | ... | 21 | 24 | 33.34 | 96 | 9 | 17.6 | 7 | 0.71 |
| 918 | ... .. | 9.5 | ... | 21 | 27 | 15.97 | 132 | 37 | 30.9 | 1 | 0.73 |
| 919 | ... .. | 7.7 | 1 | 21 | 29 | 54.66 | 127 | 45 | 35.1 | 1 | 0.65 |
| 920 | 40 Capricorni γ ... | 3.8 | ... | 21 | 32 | 42.97 | 107 | 15 | 42.2 | 2 | 0.58 |
| 921 | Taylor 10068 ... | 7.2 | 2 | 21 | 34 | 32.46 | 134 | 5 | 55.3 | 2 | 0.74 |
| 922 | Taylor 10065 ... | 6.6 | 1 | 21 | 34 | 40.68 | 145 | 6 | 17.8 | 1 | 0.68 |
| 923 | ... .. | 8.3 | 1 | 21 | 34 | 56.33 | 133 | 59 | 40.1 | 1 | 0.75 |
| 924 | 8 Pegasi ϵ ... | 2.4 | ... | 21 | 37 | 39.11 | 80 | 44 | 0.3 | 8 | 0.73 |
| 925 | ... .. | 9.2 | 1 | 21 | 37 | 51.03 | 127 | 47 | 22.8 | 1 | 0.65 |
| 926 | 45 Capricorni λ ... | 5.4 | ... | 21 | 39 | 22.37 | 101 | 58 | 40.4 | 2 | 0.77 |
| 927 | 49 Capricorni δ ... | 3.0 | ... | 21 | 39 | 41.63 | 106 | 43 | 46.2 | 2 | 0.62 |
| 928 | ... .. | 9.6 | 2 | 21 | 41 | 6.30 | 127 | 46 | 39.4 | 2 | 0.89 |
| 929 | Taylor 10126 ... | 7.0 | 1 | 21 | 41 | 11.11 | 137 | 13 | 36.7 | 1 | 0.76 |
| 930 | ... .. | 8.3 | 1 | 21 | 43 | 4.19 | 132 | 30 | 37.8 | 1 | 0.75 |
| 931 | ... .. | 7.5 | 2 | 21 | 45 | 13.02 | 127 | 31 | 6.9 | 2 | 0.61 |
| 932 | 51 Capricorni μ ... | 5.2 | ... | 21 | 46 | 2.53 | 104 | 10 | 35.8 | 3 | 0.72 |
| 933 | 16 Pegasi ... | 5.0 | ... | 21 | 47 | 0.60 | 64 | 41 | 59.4 | 4 | 0.69 |
| 934 | ... .. | 9.4 | 2 | 21 | 50 | 52.89 | 127 | 28 | 35.6 | 2 | 0.75 |
| 935 | ... .. | 9.1 | 3 | 21 | 52 | 56.53 | 127 | 29 | 47.0 | 3 | 0.64 |
| 936 | ... .. | 8.7 | 3 | 21 | 52 | 58.49 | 129 | 31 | 50.3 | 3 | 0.74 |
| 937 | ϵ Indi ... | 5.9 | 2 | 21 | 53 | 10.12 | 147 | 19 | 50.9 | 2 | 0.76 |
| 938 | Lacaille 9006 ... | 7.3 | 2 | 21 | 56 | 20.24 | 129 | 31 | 2.1 | 2 | 0.75 |
| 939 | 34 Aquarii α ... | 3.2 | ... | 21 | 58 | 57.05 | 90 | 57 | 54.2 | 4 | 0.74 |
| 940 | 33 Aquarii ι ... | 4.3 | ... | 21 | 59 | 15.02 | 104 | 30 | 50.2 | 2 | 0.54 |
| 941 | W. B. E. XXI. 1413 ... | 9.0 | 1 | 22 | 1 | 58.24 | 78 | 8 | 55.6 | 1 | 0.73 |
| 942 | ... .. | 9.7 | 1 | 22 | 3 | 21.97 | 129 | 4 | 27.9 | 1 | 0.74 |
| 943 | 43 Aquarii θ ... | 4.3 | ... | 22 | 9 | 48.74 | 98 | 26 | 40.8 | 8 | 0.74 |
| 944 | ... .. | 8.2 | 1 | 22 | 12 | 14.21 | 129 | 25 | 48.2 | 1 | 0.73 |
| 945 | ... .. | 7.5 | 1 | 22 | 12 | 39.64 | 150 | 36 | 55.8 | 1 | 0.74 |

55.13]

5

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 911 | 32 Capricorni ι ... | + 3.3486 | - 0.0130 | 0.000 | - 15.069 | - 0.316 | - 0.02 | 7407 |
| 912 | ... .. | + 4.8344 | - 0.1051 | ... | - 15.296 | - 0.449 | ... | ... |
| 913 | ... .. | + 4.6064 | - 0.0871 | ... | - 15.381 | - 0.425 | ... | ... |
| 914 | ... .. | + 3.7613 | - 0.0816 | ... | - 15.439 | - 0.343 | ... | ... |
| 915 | Lacaille 8829 ... | + 3.7133 | - 0.0295 | ... | - 15.513 | - 0.336 | ... | ... |
| 916 | ... .. | + 3.3817 | - 0.0147 | ... | - 15.537 | - 0.305 | ... | ... |
| 917 | 22 Aquarii β ... | + 3.1625 | - 0.0071 | - 0.001 | - 15.616 | - 0.282 | 0.00 | 7478 |
| 918 | ... .. | + 3.8329 | - 0.0371 | ... | - 15.764 | - 0.389 | ... | ... |
| 919 | ... .. | + 3.7024 | - 0.0305 | ... | - 15.906 | - 0.322 | ... | ... |
| 920 | 40 Capricorni γ ... | + 3.3211 | - 0.0130 | + 0.013 | - 16.054 | - 0.283 | + 0.03 | 7525 |
| 921 | Taylor 10063 ... | + 3.3403 | - 0.0395 | ... | - 16.150 | - 0.325 | ... | 7538 |
| 922 | Taylor 10065 ... | + 4.2078 | - 0.0649 | ... | - 16.157 | - 0.357 | ... | 7540 |
| 923 | ... .. | + 3.8360 | - 0.0394 | ... | - 16.167 | - 0.324 | ... | ... |
| 924 | 8 Pegasi ϵ ... | + 2.9451 | - 0.0005 | + 0.003 | - 16.310 | - 0.242 | 0.00 | 7561 |
| 925 | ... .. | + 3.6747 | - 0.0307 | ... | - 16.320 | - 0.304 | ... | ... |
| 926 | 45 Capricorni λ ... | + 3.2355 | - 0.0101 | - 0.002 | - 16.397 | - 0.265 | + 0.01 | 7577 |
| 927 | 49 Capricorni δ ... | + 3.3030 | - 0.0128 | + 0.014 | - 16.410 | - 0.270 | + 0.28 | 7580 |
| 928 | ... .. | + 3.6624 | - 0.0307 | ... | - 16.483 | - 0.297 | ... | ... |
| 929 | Taylor 10126 ... | + 3.8949 | - 0.0454 | ... | - 16.487 | - 0.317 | ... | 7591 |
| 930 | ... .. | + 3.7616 | - 0.0372 | ... | - 16.580 | - 0.302 | ... | ... |
| 931 | Lacaille 8948 ... | + 3.6416 | - 0.0304 | ... | - 16.688 | - 0.287 | ... | ... |
| 932 | 51 Capricorni μ ... | + 3.2585 | - 0.0113 | + 0.021 | - 16.726 | - 0.265 | - 0.02 | 7613 |
| 933 | 16 Pegasi ... | + 2.7256 | + 0.0052 | + 0.001 | - 16.772 | - 0.210 | + 0.01 | 7627 |
| 934 | ... .. | + 3.6195 | - 0.0304 | ... | - 16.955 | - 0.275 | ... | ... |
| 935 | ... .. | + 3.6121 | - 0.0304 | ... | - 17.049 | - 0.270 | ... | ... |
| 936 | ... .. | + 3.6528 | - 0.0330 | ... | - 17.053 | - 0.273 | ... | ... |
| 937 | ϵ Indi ... | + 4.1681 | - 0.0724 | + 0.480 | - 17.061 | - 0.313 | + 2.45 | 7656 |
| 938 | Lacaille 9006 ... | + 3.6387 | - 0.0329 | ... | - 17.205 | - 0.266 | ... | ... |
| 939 | 34 Aquarii α ... | + 3.0834 | - 0.0041 | - 0.003 | - 17.322 | - 0.219 | + 0.02 | 7658 |
| 940 | 33 Aquarii ι ... | + 3.2461 | - 0.0113 | - 0.001 | - 17.335 | - 0.231 | + 0.07 | 7661 |
| 941 | W. B. E. XXI. 1413. | + 2.9339 | + 0.0014 | ... | - 17.454 | - 0.209 | ... | ... |
| 942 | ... .. | + 3.6010 | - 0.0312 | ... | - 17.514 | - 0.236 | ... | ... |
| 943 | 43 Aquarii θ ... | + 3.1638 | - 0.0075 | + 0.006 | - 17.732 | - 0.205 | + 0.05 | 7773 |
| 944 | ... .. | + 3.5702 | - 0.0325 | ... | - 17.878 | - 0.226 | ... | ... |
| 945 | ... .. | + 4.1440 | - 0.0343 | ... | - 17.895 | - 0.266 | ... | ... |

937.—Proper motions from "Stone's Cape Catalogue."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|--|------------|--------------|-----------------------|----|-------|----------------------|----|------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 946 | ... .. | 9.1 | 2 | 22 | 14 | 54.76 | 129 | 25 | 26.7 | 2 | 0.77 |
| 947 | ... .. | 9.2 | 2 | 22 | 19 | 2.14 | 140 | 44 | 50.7 | 2 | 0.76 |
| 948 | R. P. L. 150 | 5.5 | ... | 22 | 23 | 27.51 | 4 | 33 | 47.1 | 8 | 0.43 |
| 949 | 57 Aquarii σ | 4.8 | ... | 22 | 23 | 36.32 | 101 | 21 | 27.8 | 4 | 0.70 |
| 950 | ... .. | 8.2 | 1 | 22 | 23 | 52.92 | 130 | 39 | 34.2 | 1 | 0.81 |
| 951 | 27 Cephei δ Var. 1. | 4.0 | ... | 22 | 24 | 14.21 | 32 | 15 | 54.8 | 2 | 0.75 |
| 952 | ... .. | 9.3 | 1 | 22 | 24 | 47.95 | 129 | 43 | 46.9 | 1 | 0.80 |
| 953 | 62 Aquarii η | 4.2 | ... | 22 | 28 | 31.23 | 90 | 48 | 8.3 | 4 | 0.79 |
| 954 | R. P. L. 153 | 7.6 | ... | 22 | 29 | 8.81 | 2 | 35 | 45.1 | 1 | 0.84 |
| 955 | 63 Aquarii κ | 5.5 | ... | 22 | 30 | 51.95 | 94 | 54 | 48.3 | 2 | 0.62 |
| 956 | ... .. | 8.9 | 1 | 22 | 34 | 24.37 | 155 | 30 | 24.8 | 1 | 0.76 |
| 957 | 42 Pegasi ζ | 3.6 | ... | 22 | 34 | 49.69 | 79 | 51 | 43.8 | 11 | 0.79 |
| 958 | 67 Aquarii | 6.2 | ... | 22 | 36 | 17.33 | 97 | 39 | 32.0 | 1 | 0.55 |
| 959 | ... .. | 8.2 | 1 | 22 | 36 | 40.89 | 130 | 26 | 2.3 | 1 | 0.77 |
| 960 | ... .. | 9.5 | 1 | 22 | 43 | 37.36 | 130 | 35 | 42.7 | 1 | 0.80 |
| 961 | ... .. | 8.0 | 1 | 22 | 44 | 52.04 | 135 | 40 | 20.0 | 1 | 0.84 |
| 962 | 73 Aquarii λ | 3.8 | ... | 22 | 45 | 40.31 | 98 | 17 | 12.5 | 3 | 0.70 |
| 963 | ... .. | 9.5 | 1 | 22 | 47 | 38.83 | 128 | 56 | 54.4 | 1 | 0.81 |
| 964 | ... .. | 9.3 | 2 | 22 | 48 | 15.74 | 152 | 34 | 14.7 | 2 | 0.74 |
| 965 | O. A. S. 22500 | 8.3 | 2 | 22 | 49 | 10.41 | 119 | 18 | 55.5 | 2 | 0.76 |
| 966 | S Aquarii Var. 2 | 10.2 | 1 | 22 | 49 | 58.93 | 111 | 3 | 9.8 | 1 | 0.73 |
| 967 | 24 Pis. Aus. α (<i>Fomalhaut</i>) | 1.3 | ... | 22 | 50 | 17.65 | 120 | 19 | 35.8 | 4 | 0.81 |
| 968 | ... .. | 8.0 | 2 | 22 | 53 | 34.73 | 128 | 4 | 20.8 | 2 | 0.74 |
| 969 | ... .. | 10.3 | ... | 22 | 54 | 49.79 | 101 | 42 | 8.6 | 1 | 0.73 |
| 970 | 53 Pegasi β Var. 1 (<i>Scheat</i>) | 2.6 | ... | 22 | 57 | 19.89 | 62 | 38 | 17.4 | 1 | 0.86 |
| 971 | ... .. | 9.5 | 1 | 22 | 57 | 20.82 | 57 | 11 | 9.6 | 1 | 0.83 |
| 972 | ... .. | 9.0 | 1 | 22 | 57 | 22.47 | 149 | 37 | 3.2 | 1 | 0.80 |
| 973 | 54 Pegasi α (<i>Markab</i>) | 2.6 | ... | 22 | 58 | 8.17 | 75 | 30 | 36.2 | 5 | 0.79 |
| 974 | R Pegasi Var. 2 | 8.5 | 1 | 22 | 59 | 53.20 | 80 | 10 | 28.2 | 1 | 0.82 |
| 975 | ... .. | 9.2 | 1 | 23 | 3 | 16.80 | 127 | 29 | 6.2 | 1 | 0.83 |
| 976 | 90 Aquarii ϕ | 4.2 | ... | 23 | 7 | 26.08 | 96 | 45 | 56.8 | 2 | 0.66 |
| 977 | ... .. | 8.2 | 3 | 23 | 7 | 35.86 | 129 | 54 | 6.3 | 3 | 0.82 |
| 978 | ... .. | 9.0 | 2 | 23 | 10 | 0.85 | 151 | 43 | 30.6 | 2 | 0.76 |
| 979 | 6 Piscium γ | 3.8 | ... | 23 | 10 | 16.22 | 87 | 26 | 38.6 | 10 | 0.81 |
| 980 | 93 Aquarii ψ^a | 4.5 | 1 | 23 | 10 | 59.37 | 99 | 54 | 30.1 | 1 | 0.85 |

948.—Groombridge 3820.

951.— δ Cephei Var. 1.—Period 5.366 days.—Range, 3.7 to 4.8 magnitude.

954.—Carrington 3466.

965.—Comparison star for Calliope in 1866.

966.—S Aquarii Var. 2.—Period 279 days.—Range, 8th to below 13th magnitude.

970.— β Pegasi Var. 1.—(*Scheat*).—Period about 6 weeks.—Range, 2.0 to 2.5 magnitude.

974.—R Pegasi Var. 2.—Period 382 days.—Range, 7th to 13th magnitude.

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[1640]

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|---------------------------------------|---------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 946 | ... | + 3.5586 | - 0.0324 | ... | - 17.983 | - 0.222 | ... | ... |
| 947 | ... | + 3.7699 | - 0.0516 | ... | - 18.140 | - 0.227 | ... | ... |
| 948 | R. P. L. 150 | - 3.7778 | - 1.1818 | + 0.048 | - 18.302 | + 0.233 | - 0.05 | 7851 |
| 949 | 57 Aquarii σ ... | + 3.1818 | - 0.0088 | - 0.004 | - 18.307 | - 0.182 | - 0.05 | 7840 |
| 950 | ... | + 3.5397 | - 0.0337 | ... | - 18.317 | - 0.202 | ... | ... |
| 951 | 27 Cephei δ Var. 1 ... | + 2.2128 | + 0.0165 | + 0.002 | - 18.329 | - 0.123 | + 0.02 | 7848 |
| 952 | ... | + 3.5205 | - 0.0324 | ... | - 18.349 | - 0.199 | ... | ... |
| 953 | 62 Aquarii η ... | + 3.0793 | - 0.0031 | + 0.003 | - 18.479 | - 0.166 | + 0.06 | 7868 |
| 954 | R. P. L. 153 | - 8.3165 | - 3.8968 | ... | - 18.487 | + 0.476 | ... | ... |
| 955 | 63 Aquarii κ ... | + 3.1157 | - 0.0051 | - 0.007 | - 18.557 | - 0.164 | + 0.11 | 7884 |
| 956 | ... | + 4.1429 | - 0.1067 | ... | - 18.672 | - 0.218 | ... | ... |
| 957 | 42 Pegasi ζ ... | + 2.9852 | + 0.0023 | + 0.001 | - 18.686 | - 0.149 | 0.00 | 7908 |
| 958 | 67 Aquarii ... | + 3.1363 | - 0.0063 | ... | - 18.732 | - 0.155 | ... | 7921 |
| 959 | ... | + 3.4772 | - 0.0327 | ... | - 18.744 | - 0.173 | ... | ... |
| 960 | ... | + 3.4470 | - 0.0325 | ... | - 18.952 | - 0.157 | ... | ... |
| 961 | ... | + 3.5128 | - 0.0395 | ... | - 18.987 | - 0.157 | ... | ... |
| 962 | 73 Aquarii λ ... | + 3.1341 | - 0.0063 | - 0.006 | - 19.009 | - 0.137 | - 0.03 | 7970 |
| 963 | ... | + 3.4076 | - 0.0300 | ... | - 19.064 | - 0.146 | ... | ... |
| 964 | ... | + 3.8654 | - 0.0854 | ... | - 19.080 | - 0.166 | ... | ... |
| 965 | G. A. S. 22500 | + 3.3004 | - 0.0204 | ... | - 19.104 | - 0.139 | ... | ... |
| 966 | S Aquarii Var. 2 ... | + 3.2269 | - 0.0140 | ... | - 19.126 | - 0.154 | ... | ... |
| 967 | 24 Piscis Australis α . | + 3.3033 | - 0.0210 | + 0.022 | - 19.135 | - 0.135 | + 0.15 | 7992 |
| 968 | ... | + 3.3714 | - 0.0285 | ... | - 19.219 | - 0.132 | ... | ... |
| 969 | ... | + 3.1498 | - 0.0073 | ... | - 19.250 | - 0.121 | ... | ... |
| 970 | 53 Pegasi β Var. 1 ... | + 2.8853 | + 0.0117 | + 0.014 | - 19.310 | - 0.106 | - 0.15 | 8032 |
| 971 | ... | + 2.8393 | + 0.0144 | ... | - 19.310 | - 0.104 | ... | ... |
| 972 | ... | + 3.6876 | - 0.0705 | ... | - 19.311 | - 0.138 | ... | ... |
| 973 | 54 Pegasi α (<i>Markab</i>). | + 2.9800 | + 0.0056 | + 0.003 | - 19.328 | - 0.107 | + 0.02 | 8034 |
| 974 | R Pegasi Var. 2 ... | + 3.0122 | + 0.0034 | ... | - 19.371 | - 0.106 | ... | ... |
| 975 | ... | + 3.3233 | - 0.0271 | ... | - 19.444 | - 0.110 | ... | ... |
| 976 | 90 Aquarii ϕ ... | + 3.1082 | - 0.0045 | + 0.001 | - 19.529 | - 0.096 | + 0.19 | 8035 |
| 977 | ... | + 3.3255 | - 0.0294 | ... | - 19.533 | - 0.102 | ... | ... |
| 978 | ... | + 3.6100 | - 0.0742 | ... | - 19.580 | - 0.106 | ... | ... |
| 979 | 6 Piscium γ ... | + 3.0592 | + 0.0005 | + 0.047 | - 19.585 | - 0.087 | + 0.01 | 8105 |
| 980 | 93 Aquarii ψ^2 | + 3.1217 | - 0.0061 | - 0.002 | - 19.598 | - 0.088 | - 0.01 | 8109 |

970.—Proper motions from "Greenwich Catalogue 1872."

Mean Positions of Stars for 1867 January 1st.

| Number. | Star. | Magnitude. | Estimations. | Mean Right Ascension. | | | Mean Polar Distance. | | | Observations. | Fraction of Year. |
|---------|----------------------|------------|--------------|-----------------------|----|-------|----------------------|----|-------------------------------|---------------|-------------------|
| | | | | h. | m. | s. | ° | ' | " | | |
| 981 | ... | 9.2 | 2 | 23 | 11 | 44.28 | 131 | 7 | 11.8 | 2 | 0.78 |
| 982 | ... | 9.5 | 1 | 23 | 17 | 4.55 | 127 | 26 | 29.6 | 1 | 0.80 |
| 983 | ... | 9.7 | 2 | 23 | 18 | 24.73 | 131 | 7 | 28.6 | 2 | 0.78 |
| 984 | ... | 8.7 | 3 | 23 | 18 | 39.68 | 127 | 16 | 47.2 | 3 | 0.79 |
| 985 | 8 Piscium κ | 5.0 | ... | 23 | 20 | 6.89 | 89 | 28 | 20.4 | 9 | 0.80 |
| 986 | ... | 7.5 | 1 | 23 | 20 | 55.78 | 88 | 50 | ⁴² 25 5 | 1 | 0.84 |
| 987 | Lacaille 9496 | 8.0 | 2 | 23 | 23 | 25.84 | 127 | 41 | 27.5 | 2 | 0.81 |
| 988 | ... | 7.9 | 2 | 23 | 24 | 27.84 | 127 | 1 | 17.1 | 2 | 0.73 |
| 989 | Lacaille 9514 | 9.0 | 1 | 23 | 26 | 2.65 | 131 | 34 | 46.9 | 1 | 0.82 |
| 990 | Lacaille 9517 | 7.1 | 3 | 23 | 26 | 38.57 | 126 | 59 | 57.7 | 3 | 0.75 |
| 991 | ... | 9.4 | 2 | 23 | 29 | 50.27 | 130 | 6 | 8.0 | 2 | 0.80 |
| 992 | ... | 7.8 | 3 | 23 | 29 | 51.88 | 127 | 32 | 9.0 | 3 | 0.83 |
| 993 | 17 Piscium ι | 4.3 | ... | 23 | 33 | 6.60 | 85 | 5 | 39.7 | 9 | 0.80 |
| 994 | 18 Piscium λ | 4.7 | ... | 23 | 35 | 15.49 | 88 | 57 | 8.1 | 1 | 0.77 |
| 995 | ... | 8.4 | 2 | 23 | 35 | 21.35 | 148 | 41 | 57.6 | 2 | 0.84 |
| 996 | ... | 9.4 | 2 | 23 | 36 | 8.30 | 128 | 8 | 40.8 | 2 | 0.78 |
| 997 | R. Aquarii Var. 1... | 9.7 | 2 | 23 | 36 | 56.42 | 106 | 1 | 18.3 | 2 | 0.80 |
| 998 | Lacaille 9583 | 8.0 | 2 | 23 | 39 | 0.04 | 128 | 42 | 54.0 | 2 | 0.84 |
| 999 | Lacaille 9597 | 8.0 | 3 | 23 | 40 | 32.45 | 128 | 53 | 44.4 | 3 | 0.82 |
| 1000 | 8 Sculptoris | 4.6 | ... | 23 | 41 | 59.58 | 118 | 51 | 57.4 | 4 | 0.78 |
| 1001 | ... | 7.5 | 1 | 23 | 42 | 8.16 | 142 | 3 | 27.1 | 1 | 0.72 |
| 1002 | 21 Piscium | 6.1 | ... | 23 | 42 | 38.86 | 89 | 39 | 45.5 | 1 | 0.85 |
| 1003 | ... | 9.3 | 2 | 23 | 42 | 56.43 | 129 | 42 | 48.4 | 2 | 0.82 |
| 1004 | ... | 8.7 | 3 | 23 | 47 | 1.42 | 128 | 8 | 51.7 | 3 | 0.80 |
| 1005 | Lacaille 9641 | 7.8 | 2 | 23 | 48 | 11.48 | 128 | 6 | 17.4 | 2 | 0.85 |
| 1006 | Lacaille 9650 | 8.2 | 1 | 23 | 49 | 15.00 | 129 | 47 | 10.3 | 1 | 0.83 |
| 1007 | ... | 9.0 | 1 | 23 | 51 | 54.93 | 152 | 19 | 40.5 | 1 | 0.73 |
| 1008 | 28 Piscium ω | 4.2 | ... | 23 | 52 | 28.93 | 83 | 52 | 23.1 | 3 | 0.82 |
| 1009 | 29 Piscium | 5.1 | ... | 23 | 55 | 0.52 | 93 | 46 | 5.7 | 1 | 0.85 |
| 1010 | ... | 9.5 | 2 | 23 | 56 | 7.83 | 130 | 16 | 1.7 | 2 | 0.85 |
| 1011 | ... | 9.3 | 1 | 23 | 56 | 35.79 | 126 | 42 | 22.8 | 1 | 0.80 |
| 1012 | Taylor 10990 | 8.3 | 1 | 23 | 57 | 3.48 | 148 | 34 | 13.3 | 1 | 0.86 |
| 1013 | Taylor 10997 | 9.0 | 1 | 33 | 58 | 12.65 | 126 | 45 | 30.6 | 1 | 0.74 |
| 1014 | ... | 9.0 | 2 | 23 | 58 | 44.51 | 125 | 52 | 14.9 | 2 | 0.79 |
| 1015 | Lacaille 9721 | 6.0 | 1 | 23 | 59 | 25.87 | 139 | 48 | 51.5 | 1 | 0.86 |
| 1016 | Lacaille 9723 | 7.7 | 1 | 23 | 59 | 51.62 | 126 | 49 | 27.8 | 1 | 0.85 |

42.5]

997.—R. Aquarii Var. 1.—Period 388 days.—Range, 6th to 11th magnitude.

Observed with the Madras Meridian Circle in that Year.

| Number. | Star. | In Right Ascension. | | | In Polar Distance. | | | Number in B. A. C. |
|---------|--------------------------|-----------------------|-----------------------|-------------------|-----------------------|-----------------------|-------------------|-----------------------|
| | | Annual Precession. | Secular Variation. | Proper Motion. | Annual Precession. | Secular Variation. | Proper Motion. | |
| 981 | ... .. | + 3.3161 | - 0.0304 | ... | - 19.612 | - 0.098 | ... | ... |
| 982 | ... .. | + 3.1627 | - 0.0259 | ... | - 19.704 | - 0.081 | ... | ... |
| 983 | ... .. | + 3.2328 | - 0.0304 | ... | - 19.726 | - 0.078 | ... | ... |
| 984 | ... .. | + 3.2547 | - 0.0255 | ... | - 19.730 | - 0.077 | ... | ... |
| 985 | 8 Piscium κ ... | + 3.0699 | 0.0000 | + 0.005 | - 19.752 | - 0.069 | + 0.12 | 8189 |
| 986 | ... .. | + 3.0676 | + 0.0003 | ... | - 19.763 | - 0.068 | ... | ... |
| 987 | Lacaille 9496 | + 3.2352 | - 0.0254 | ... | - 19.800 | - 0.066 | ... | ... |
| 988 | ... .. | + 3.2278 | - 0.0247 | ... | - 19.814 | - 0.068 | ... | ... |
| 989 | Lacaille 9514 | + 3.2472 | - 0.0293 | ... | - 19.835 | - 0.061 | ... | ... |
| 990 | Lacaille 9517 | + 3.2182 | - 0.0244 | ... | - 19.843 | - 0.059 | ... | ... |
| 991 | ... .. | + 3.2199 | - 0.0272 | ... | - 19.882 | - 0.052 | ... | ... |
| 992 | ... .. | + 3.2068 | - 0.0246 | ... | - 19.882 | - 0.052 | ... | ... |
| 993 | 17 Piscium ι ... | + 3.0586 | + 0.0030 | + 0.025 | - 19.913 | - 0.042 | + 0.45 | 8233 |
| 994 | 18 Piscium λ ... | + 3.0696 | + 0.0011 | - 0.011 | - 19.933 | - 0.039 | + 0.17 | 8243 |
| 995 | ... .. | + 3.3082 | - 0.0561 | ... | - 19.933 | - 0.043 | ... | ... |
| 996 | ... .. | + 3.1810 | - 0.0244 | ... | - 19.946 | - 0.039 | ... | ... |
| 997 | R Aquarii Var. 1 | + 3.1097 | - 0.0081 | ... | - 19.953 | - 0.036 | ... | ... |
| 998 | Lacaille 9583 | + 3.1702 | - 0.0248 | ... | - 19.971 | - 0.034 | ... | ... |
| 999 | Lacaille 9597... | + 3.1636 | - 0.0246 | ... | - 19.983 | - 0.030 | ... | ... |
| 1000 | 3 Sculptoris ... | + 3.1299 | - 0.0161 | + 0.009 | - 19.993 | - 0.023 | + 0.10 | 8275 |
| 1001 | ... .. | + 3.2057 | - 0.0408 | ... | - 19.994 | - 0.023 | ... | ... |
| 1002 | 21 Piscium ... | + 3.0714 | + 0.0011 | - 0.002 | - 19.993 | - 0.025 | + 0.04 | 8281 |
| 1003 | ... .. | + 3.1547 | - 0.0261 | ... | - 19.999 | - 0.025 | ... | ... |
| 1004 | ... .. | + 3.1315 | - 0.0232 | ... | - 20.023 | - 0.017 | ... | ... |
| 1005 | Lacaille 9641 | + 3.1262 | - 0.0230 | ... | - 20.027 | - 0.015 | ... | ... |
| 1006 | Lacaille 9650 | + 3.1243 | - 0.0244 | ... | - 20.033 | - 0.012 | ... | ... |
| 1007 | ... .. | + 3.1621 | - 0.0590 | ... | - 20.042 | - 0.008 | ... | ... |
| 1008 | 28 Piscium ω ... | + 3.0673 | + 0.0047 | + 0.010 | - 20.045 | - 0.005 | + 0.13 | 8381 |
| 1009 | 29 Piscium ... | + 3.0738 | - 0.0004 | - 0.002 | - 20.051 | 0.000 | + 0.01 | 8346 |
| 1010 | ... .. | + 3.0913 | - 0.0240 | ... | - 20.052 | + 0.001 | ... | ... |
| 1011 | ... .. | + 3.0869 | - 0.0208 | ... | - 20.053 | + 0.003 | ... | ... |
| 1012 | Taylor 10990... | + 3.1003 | - 0.0432 | ... | - 20.053 | + 0.003 | ... | ... |
| 1013 | Taylor 10997... | + 3.0797 | - 0.0206 | ... | - 20.054 | + 0.006 | ... | ... |
| 1014 | ... .. | + 3.0774 | - 0.0198 | ... | - 20.054 | + 0.007 | ... | ... |
| 1015 | Lacaille 9721 | + 3.0762 | - 0.0336 | ... | - 20.055 | + 0.003 | ... | ... |
| 1016 | Lacaille 9723 | + 3.0727 | - 0.0205 | ... | - 20.055 | + 0.009 | ... | ... |

1000—Proper motions from "Stone's Cape Catalogue."