

The most satisfactory elements yet found are

1886 Oct. 13^d 14^h 20^m Greenw. M.T. +15^d 14^h 24^m E.

Approximate duration of increase, 5.6 days.

" " decrease, 10.0 "

The comparison with these elements is given in the column (O-C).

The comparison-stars used, are

Cambridge, 1887 December 9.

| | 1855.0 | L |
|---|----------|----------|
| a | 20 23 48 | +35 58.5 |
| b | 20 36 43 | 34 56.4 |
| d | 20 34 16 | 34 52.5 |
| f | 20 35 9 | 34 31.4 |

where the values of L are of a very provisional character. The maximum brilliancy of the variable is ordinarily about 6^{M.4}; the minimum brilliancy ranges from 7^{M.2} to 7^{M.7}.

OBSERVATIONS OF THE TWO HUNDRED SEVENTY-FIRST ASTEROID,

MADE AT THE U. S. NAVAL OBSERVATORY WITH THE 9.6 INCH EQUATORIAL,

BY PROF. EDGAR FRISBY.

(Communicated by the Superintendent.)

| 1887 Washington M.T. | * | No. | Planet — * | | Planet's apparent | | log p Δ | for α | for δ |
|----------------------|-----------|-----|------------|----------|-------------------|-----------|-------------|--------|-------|
| | | | α | Δα | α | δ | | | |
| Oct. 21 | 9 48 55.2 | 1 | 20 , 3 | +1 59.26 | -0 18.2 | 1 8 25.39 | +11 40 55.4 | n9.187 | 0.612 |
| 22 | 9 29 38.6 | 1 | 17 , 4 | +1 12.41 | -4 15.5 | 1 7 38.55 | +11 36 58.1 | n9.269 | 0.617 |

Mean Place for 1887.0 of Comparison-Star.

| * | α | Red. to app. place | δ | Red. to app. place | Authority |
|---|-----------|-----------------------|-------------|-----------------------|-----------|
| 1 | 1 6 23.13 | +3.00 | +11 40 57.1 | +16.5 | Grant 287 |

ERRORS IN SHORTREDE'S LOGARITHM-TABLES.

To those who use SHORTREDE's tables of logarithm sines, tangents, etc., it may be useful to know of the following typographical errors found:

Page 27. In table of Prop. parts, under 17^o 50^m.2, for 196 read 186.

Page 535. cos 39^o 47^m 37^s, for 3619 read 5619.

The latter error was discovered and reported to the Coast Survey Office, and to Prof. GEORGE DAVIDSON in January, 1870; also to the London publishers. The former has lately been found,— both by

San Francisco, Cal., 1887 November 25.

JAMES S. LAWSON, Asst. C. and G. Survey.

CORRIGENDA IN No. 163.

Page 146. Eq. 3, second term, transfer r''^2 from denominator to numerator.

147. " 13, fourth line, first term, read $\cos(2n'l - 2n''l - \omega' + \omega'')$.

" " second line, the numerators of all but the first of the inferior indices should be 5.

" 16, third line, the numerators of all the inferior indices should be 7.

148. " 17, first line, for mr put $m''r^2$.

" 23, second line, second term, for n'' put Δ_2 in the coefficient.

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CORRIGENDA IN No. 163.

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