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Project PHaEDRA - Henrietta Swan Leavitt #09

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October 24, 1904

Measurements to determine the position of Var. 8 in Scorpius

Plate A 3632

| x | y | x | y | Diff. x | Diff. y | x 4.32

Var. 8 | -0.55 | +2.85 | | | |

A | -6.15 ^[[[-6.15]]] | +10.85 ^[[[+10.82]]] | -6.20 | 10.80 | -5.63 | +7.99 | 2.432

B | +2.30 ^[[[+2.28]]] | -2.05 | +2.25 | -2.05 | +2.83 | -4.88 | +12.23

C | +2.90 | +7.80 | +2.90 | +7.80 | +3.45 | + 4.97 | +14.90

Var. 8 | -0.55 | +2.80 | -0.55 | +2.85 | | |

Mean Var. | -0.55 | +2.83

a DM -21 4333 16 10 23.7 -21 52.2

b DM -22 4151 16 11 1.3 -22 48

c DM -21 4335 16 11 3.3 -21 55.2

sec delta = 1.079

4 sec delta = 4.316

(a) [[equation]] (b) [[equation]]

(c) [[equation]]

Mean Pos. 16h 10m 48.5s; -22 degrees 0.1' (1855)

Ann prec. in alpha = 3.55s Prec 45 yrs = +159.75s

Ann prec. in delta = -9.20s -414.00"

Position of Var. 8 = 16h 13m 28s -22 degrees 7.0' (1900)

[[end page]]

[[new page]]

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October 24, 1904

Measures to determine the position of Var. 17 in Scorpius

Plate A 3632

[[/strikethrough]] columns 2 & 3 [[/strikethrough]]

| x | y | x | y | Diff x | Diff y | x 4.33

Var. 17 | -0.80 | -0.50 | | | |

A | -24.45 | +4.75 | -24. [[/strikethrough]] 105.87 [[/strikethrough]] 102.47

B | +6.75 ^[[[+6.78]]] | +14.25 | +6.80 | +14.25 | +7.56 | +14.75 | +

[[/strikethrough]] 29.44 [[/strikethrough]] 32.73

C | +14.20 ^[[[+14.22]]] | -14.80 ^[[[-14.62]]] | +14.25 | -14. [[/strikethrough]]

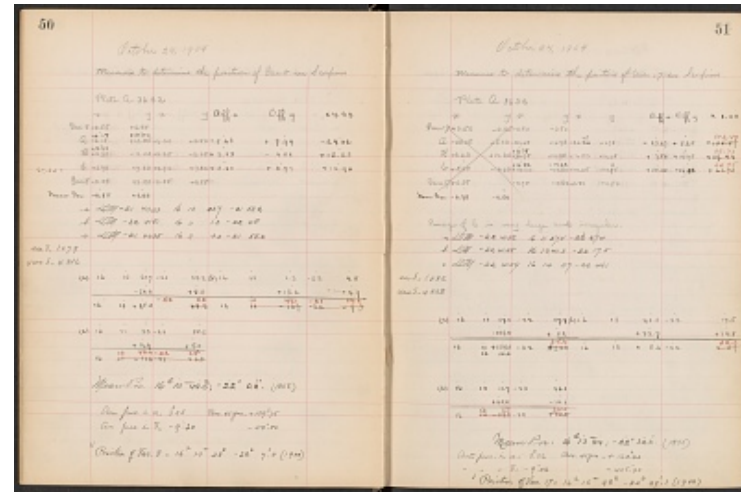
7 [[/strikethrough]] 65 | +15.00 | -14.12 | [[/strikethrough]] 61.70

[[/strikethrough]] 64.95

Var. 17 | -0.75 | -0.50 | -0.80 | -0.50 | | |

Mean Var. | -0.78 | -0.50

Image of C is very large and irregular.



a DM -22 4152 16 11 27.5 -22 degrees 27.4
b DM -22 4158 16 13 41.3 -22 17.5
c DM -22 4159 16 14 11.7 -22 46.1

sec delta = 1.082
4 sec delta = 4.328

(a) [[equation]] (b) [[equation]]
(c) [[equation]]

Mean Pos. = 16h 13m 8.4; - 22 degrees 32.3' (1855)

Ann. Prec. in alpha = 3.56s Prec. 45 years = +160.20s
" " " delta = -9.02" -405.90"

Position pf Var. 17 = 16h 15m 48s -22 degrees 39.1' (1900)

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