

## Project PHaEDRA - Henrietta Swan Leavitt #09

Extracted on Apr-19-2024 07:23:28

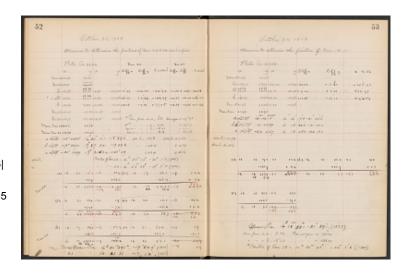
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[Preprinted]] 52 [[/preprinted]]
October 24, 1904
Measures to determine the positions of Var. 22 & 23 in Scorpius
Plate A 3632
|||||||Var 22|||Var 23|||
||x|y|x|y|Diff x|Diff y|X x 4 sec | Diff x |Diff y| X x 4 sec
Var.22|+2.60|+0.80|
Var. 23|+8.75|+54.25| [strikethrough 44.25]
A|-2.75|+57.28|-2.75|+57.25|-5.37|+56.50|-22.72|-11.50|+3.03|-48.64|[+57.30 under +57.28]
B|-35.50|+3.22|-35.50|+3.25|-38.12|+2.44|-162.39|-44.25|-51.03|-
188.50|[+3.20 under +2.22]
C|+20.80|-6.80|+20.80|-6.80|+18.18|-7.58|+77.45|+12.05|-61.05|+51.33|
Var.22|+2.60|+0.80|+2.65|+0.75|Var.22|Ann. Pre. in = 3.51s.|Prec. 45
Var.23|+8.75|+54.25|+8.75|+54.25|Var.23|Ann. Pre. in = 3.50s.|Prec. 45
vrs = +157.50s
Mean Var.22|+2.62|+0.78|Var.22|Ann. Pre. in delta = -8.43
|Prec. 45 yrs = -379.35|
Mean Var. 23|+8.75|+54.25|Var. 23|Ann. Pre. in delta = -8.39
|Prec. 45 yrs = -377.55|
a|DW|-18°4285|16h20m10.1s|-18°58.6'|sec delta=1.058|4 sec
delta=4.232
b|DW|-19°4370|16h17m54.1s|-19°52.2'|sec delta=1.064|4 sec delta
=4.256
c|DW|-20°4499|16h21m53.4s|-20°1.9'|sec delta=1.064|4 sec
delta=4.256
sec delta
|Position of Var.22 = 16h 23m 13s| -20°1.0'(1900)
Position of Var.23 = 16h 23m 39s -19°7.5'(1900)
Var.22
(a) 16h 20m 10.1s -18° 58.6'
         -22.7 +56.5
   16h 20m 32.8s -19° 55.1'
(b) 16h 17m 54.1s -19° 52.2'
        -162.4 +2.4
   16h 17m 216.5s -19° 54.6'
     20 36.5
(c) 16h 21m 53.4s -20° 1.9'
        +77.4
                  -7.6
   16h 20m 36.0s -19° 54.3'
Var.23
(a) 16h 20m 10.1s -18° 58.6'
         -48.6 +3.0
   16h 20m 58.7s -19° 1.6'
(b) 16h 17m 54.1s -19° 52.2'
        -188.5 -51.0
   16h 17m 242.6s -19° 1.2'
     21 2.6
```



```
(c) 16h 21m 53.4s -20° 1.9'
           +51.3 -61.0
    16h 21m +2.1s -20° 62.9'
                  -19° 0.9'
Var.22 Mean Pos. 16h 20m 35.1s -19° 54.7' (1855)
Var.23 Mean Pos. 16h 21m 1.1s -19° 1.2' (1855)
[[end page]]
[[new page]]
[[preprinted]] 53 [[/preprinted]]
 October 24, 1904
Measures to determine the position of Var. 18
Plate A 2763
[[/strikethrough]] 5 | -105.98
B | +(.05 ^[[+(.08]] | +8.55 ^[[+8.58]] | +9.10 | +8.60 | +7.16 | + 8.33 | +30.93
T30.93
C |+ [[strikethrough]] 2 [[/strikethrough]] 12.30 | -18.85 | +12.30 | -18.85 | +10.38 | -19.10 | +44.84
Var. 18 | +1.95 | +0.25 | +1.90 | -0.25 | | | | |
Mean Var. | +1.92 | +0.25
a | DM [[strikethrough]] -16 16 1 [[/strikethrough]] -21 degrees 4351 16h
16m 17.3s -21 degrees 53.6
b | DM -21 4359 16 18 32.6 -21 51.0
c DM -22 4167 16 18 48.3 -22 18.0
sec delta = 1.079
4 sec delta = 4.316
(a) [[equation]] (b) [[equation]] (c) [[equation]]
Mean Pos. 16h 18m 2.83s -21 degrees 59.1' (1855)
Ann. Prec. in alpha = 3.56s Prec. 45 yrs. = +160.20"
" " " delta = -8.63" " " " -388.35"
Position of Var. 18 = 16h 20m 43s -22 degrees 5.6' (1900)
```

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