KG
11366
v.371

1900-11-5
From zenith
meteor 2nd magn
10–3 3-25

919
276
643

420.2
319.4
100.8

R 120

Oct. 22, 1900. (Monday)

B&C. 1182	B. 394
7 05 46.5	7 :05 00
7 06 46.6	7 06 09

δ Cassiop. W Ob.

25 10 +72.1

21 30

3 40

8 20

Reexam of Region made & 3 more possible stars selected.

Phot T. DM +42° 3338 W Ob.

19 20 . +43.0

22 05

2 45

see next page for Meas.

Oct 22, 1900

DM +42° 3338

I

Above + Left — Lt. Equation = +.0003ᵈ

255.3 < var dis — Epoch. 809.

7 59 34 301.8 — 46.3ᵈ — Time of max 5315.0412ᵈ

76.0 — 46.3ᵈ

122.3 — 92.6ᵈ — 1.84ᵈ

Ledgered

256.1 — 1.82ᵈ

8 01 06 301.4 — 45.3ᵈ

73.8 — 49.5ᵈ

123.3 — 94.8ᵈ — 1.79ᵈ

Below + Right — Mean = -1.80ᵈ

165.1

04 12 212.1 — 47.0

343.7 — 48.9ᵈ

32.6 — 95.9ᵈ — 1.76ᵈ

Clouds

164.6 — 1.78ᵈ

8 06 17 213.8 Clouds — 49.2ᵈ

251 09 345.5 — 45.0ᵈ

30.5 — 94.2ᵈ — 180ᵈ

8 02 47
5 - 47
13 02 00 G. M. T. Clouds ~~thick~~.

5315.5431ᵈ
5315.0415ᵈ
+0.5016ᵈ

Cloudy; stars gone

Oct 22, 1900

III

Below + Right

166.5

8 17 52 211.5 45.0

342.6 52.2

34.8 97.2 — 1.73

-1.72

161.8

20 18 214.6 52.8

346.8 44.9

31.7 97.7 — 1.71

Above & Left

Mean = ~~1.84~~ -1.90

77.3

22 56 119.4 42.1

256.4 42.9

299.3 85.0 — 2.05

-2.07

77.9

8 20 04 120.9 43.0

8 6 10 258.3 40.5

8 21 32 298.8 83.5 — 2.09

5 - 47

6

18 20 40 Gr. M. Time.

5316.5562

5315. 0415

+0.5147

Oct. 22, 1900

Left & Above . III

78.6

8 27 30 117.1 38.5

257.9 42.1

300.0 80.6 −2.18

−2.22

78.8

29 25 129.2 40.4

260.0 37.8

2978 78.2 −2.25

R & Below Mean −2.12

3500

31 50 29.4 39.4

165.8 46.7

212.5 86.1 −2.02

345.7 −202

8 34 20 31.0 45.3

123 15 169.6 40.7

8 30 49 210.3 86.0 −202

5 . 47

13 30 02 Gr M time.

5315.5625

5315.0415

+0.5210

October 22, 1900

IV

R & Below

348.3
8 38 25 29.3 41.0*
166.9 ~~4~~41*
211.0 85.1* - 2.05*

345.6 - 2.05*
40 55 30.7 45.1*
169.4 39.8*
209.2 84.9* - 2.05*

L & above

259.9 Mean = 2.20*
43 21 298.1 38.2*
80.3 37.1*
117.4 75.3* - 2.34*

259.8 - 2.34*
8 45 11 297.0 37.2*
168 02 80.5 38.1*
8 42 00* 118.6 75.3* - 2.34*
5 - 47
13 61 13* Clouds

5315.5702 27.7
5315.0415
+0.5287*

October 22, 1900.

Stars gone

V

L & Above

	260.1		
8 52 10	298.1	38.0	
	80.0	37.4	
	117.4	75.4	− 2.33
	259.8		−2.31
54 25	298.3	38.5	
	79.8	38.3	
	118.1	76.8	−2.29 Mean = −2.24
	R & Below		
	169.3		
56 33	208.8	39.5	
	348.8	43.4	
	32.2	82.9	− 2.11
	168.0		−2.16
8 59 12	209.8	41.8	
22 20	350.3	38.1	
8 55 35	28.4	79.9	−2.20
5 · 47			
13 54 48	Gr. M. Time		
5315.5798			
5315.0415			
+0.5383			

October 22, 1900.

VI.

R & Below

170.4
9 03 30 209.1 38.7"
347.9 42.8"
30.7 81.5" −2.15"

168.0 −2.16"
05 05 210.2 42.2"
350.0 38.2"
28.2 80.4" −2.18"

L & Above Mean = −2.33"

80.4
07 14 117.5 37.1"
260.5 34.3"
294.8 Clouds 71.4" −2.46"

81.8 Clouds −2.50"
9 09 45 115.4 33.6"
25 34 261.8 35.2"
9 06 24 297.0 68.8" −2.55"
5 − 47 Pos Angle = 21.8
14 05 37" G.M.T. Sph Wheel = a = 4.4
5316.5872" " " = B = .35
5315.0415" " " = C = 29
+0.5457"

October 22, 1900.

Phot I. R Ursae minoris W 6 h
16 34 + 72.9
23 57
7 23

Ledgered
Plotted.

Above
245.1 comp * dia.
9 49.5 311.9 66.8
65.6 66.6
132.2 133.4 + 0.91

245.2 + 0.90
311.8 66.6
64.8 68.4
133.2 135.0 + 0.88
Below Mean + 0.78
153.1
225.5 72.4
332.9 71.9
44.8 144.3 + 0.69

153.3 + 0.65
9 56.8 225.6 72.3
106.3 330.5 75.7
9 53.2 46.2 148.0 + 0.61
5 - .8
14 52.4 G. M. T.
5315.619

October 22, 1900.

Same Again.

Below

153.2

9 58.7 225.6 72.2

332.5 clouds 71.8

44.3 144.0 +0.69

132.8 +0.66

224.4 71.6

330.1 76.3

46.4 clouds 147.9 +062

Above Mean = +0.77

64.8

133.0 68.2

246.5 65.8

312.3 134.0 +0.90

64.2 +0.88

1011.0 133.2 69.0

129.7 245.1 66.7

10 48 311.8 135.7 +0.86

5 - 8 Final Mean = +0.78

15 6.05 Gr. M time Position Angle = 130.8

5315.628 Sprocket Wheel -2.5° B

" " -1.8 C

This data is Posted.

October 22, 1900

Phot T. S Piscium W 66
Meas. of 12th Magn Stand.

1 6 +6.8
0 36
0 30
11 30

10:25 Cloudy
cloudy stars gone
Too cloudy for Standards -

Phot R. o Ceti W 66.

2 12 -3.6
0 52
1 2 0
10 40

10:33 clouds thick.

10:55 Stopped by clouds.

Oct. 23, 1900 (Tuesday)

B&C 1182 B 394
7 02 520 7 02 00
7 03 520 7 03 00

Phot J. U Cephei W Obs,

24 50 +81.1
21 35
3 15 epoch 2979×
L & Above 8 45 Uniform = 5316.3712×
144.4 (van dis Lt. Eq = -.0020×
7 20 46 232.5 88.1× Hartwig =
327.5 76.2×
437 164.3× -0.30× Ledgered
148.1
22 18 224.6 76.5× -0.28×
324.8 89.3×
541 165.8× -0.27×
R & Below
Mean = -0.38×
56.5
24 03 139.8 83.3× 5316.5156×
240.8 72.8× 5314.0355
313.6 156.1× -0.46× +2.4801× Hard.
62.5
23 51 135.8 73.3× -0.47×
12 58 237.4 81.7× 5316.5156×
7 23 14
5 – 52 319.1 155.0× -0.48× 5316.3692×
12 22 22 Gr. M. Time - Uniform +0.1464

October 23, 1900.

II

R & Below
56.2
7 28 15 | 142.9 — 86.7
241.8 — 73.8
315.6 — 160.5 — 0.37

61.7 — 0.33
29 45 | 137.0 — 75.3
234.5 — 89.4
323.9 — 164.7 — 0.29

L & Above — Mean = -0.16
322.5
31 55 55.3 — 92.8
146.4 — 85.7
232.1 — 178.5 — 0.03

325.8 — 0.00
7 33 42 52.5 — 86.7
~~37~~ 141.4 — 94.7
123 37 | 236.1 — 181.4
7 30 54 — 178.6 + 0.03
5 - 52

12 30 02 G.M.Time. — 5316.5208
5316.5208 — 5314.0355
5316.3692 — +2.4853 Hartwig.
+0.1516 Uniform.

October 23, 1900

~~III~~

L & Above

322.6
7 35 45 60.4 — 97.8
147.9 — 82.9
230.8 — 180.7
179.3 — +0.01

325.4
37 05 54.5 — 89.1 — +0.07
139.1 — 98.0
237.1 — 187.1
172.9 — +0.13

R & Below

Mean = 0.00

233.4
39 19 324.4 — 91.0
59.6 — 83.7
143.3 — 174.7 — −0.10

−0.08

$2\overset{3}{\cancel{4}}9.2$
41 15 320.9 — 81.7
15 32 24 52.6 — 95.1
7 38 21 147.7 — 176.8 — +0.06
5 − 52
12 37 29 Gr. M. Time.

5316.5260 — 5316.5260
5316.3692 — 5314.0355
+0.1568 Uniform — +2.4905 Hartwig

October 28, 1900

IV

R & Below

232,9 ×
7 43 18 325,3 92.4
55,1 87.3 ×
142.4 179.7 × − 0.01

235,3 + 0.02 ×
44 50 322,6 87.3 ×
52,5 94.9 ×
147,4 182.2 × + 0.04 ×
177.8 ×

L & above Mean = + 0.19

137.4
46 51 237.6 100.2 ×
320.4 97.4 ×
57.8 197.6 × + 0.33 ×
162.4 ×

140,3 + 0.36 ×
7 48 30 236.9 96.6 ×
316.9 103.5 ×
23 29 60.4 200.1 ×
7 45 52 159.9 × + 0.38 ×
5 52

12 45 00 Gr. M time

5316.5313 × 5316 5313 ×
5316.3692 5316.5286
+ 0.1621 Unifor + 0.0027 Hartwig

October 29 1900

V

L & Above
136.2
7 5 100 241.9 105.7^{s}
320.7 98.4^{s}
59.1 204.1^{s}
155.9^{s} +0.46^{s}

140.0
5 300 238.7 98.7^{s} +0.47^{s}
315.6 106.6^{s}
62.2 205.3^{s} +0.48^{s}
154.7^{s}

R & Below Mean = +0.40^{s}
48.0
5524 150.7 102.7^{s}
232.1 94.9^{s}
327.0 197.6^{s}
162.4^{s} + 0.33^{s}

52.7
5716 147.3 94.6^{s} +0.32^{s}
16 40 228.4 101.4^{s}
7 54 10 329.8 196.0^{s} + 0.30^{s}
5 - 52 164.0^{s}

5316.5370^{s}
5316.5286
+0.0084^{s} Hart.

12 53 18^{s} Gr. M. Time.
5316.5370^{s}
5316.3692^{s}
0.1678^{s} Uniform

Pos Angle = 11.6
Sprocket Wheel = -2.5 a
" " = 1.5 B
= 0.8 C

October 23, 1900

Meas. of 12th Magn. Stand near
S Piscium Phot J. W 66

25 6 +6,8
22 46
> 20
9 40

Above Hagen No 16 Ledgered
159,0 < comp * dis.
8 40.2 219,6 60.6″
341.1 56.0″
37.1 116.6″ +1.27″
169,0
216,2 56.2″ +1.30″
340.8 57.3″
38.1 113.5″ +1.34″
Below
74.1 Mean = +1.40″
125.4 51.3″
250.8 55.4″
306,2 106.7″ +1.49″

69,6 +1.50″
8 49.8 126.9 57.3″
8 45.0″ 254.7 48.6″
5 - .9 303.3 105.9″ +1.51″
13 44.1″ Gr. M. Time
5316.572d

Oct. 29, 1900

Hagen No 14

R & B. Ledgered.

245.2
8534 313.6 68.4
68.8 66.2
135.0 134.6 + 0.88

247.0 + 0.91
309.4 62.4
65.2 69.4
134.6 131.8 + 0.94

Lt above Mean = + 0.82

153.4
223.4 70.0
333.4 71.2
44.6 141.2 + 0.75

153.0 + 0.74
9 01.7 223.6 70.6
11 51 333.0 72.2
~~8~~ 57.6 45.2 142.8 + 0.72
5 -9
1~~4~~3 56.7 ½ m Time.
5316.581

October 23, 1900

Hagen No. 16

Lt Above Ledgered

154.2
9 07.8 222.2 68.0^{x}
330.2 75.2^{x}
45.4 143.2^{x} $+0.71^{x}$

153.4 +0.74
222.2 68.8^{x}
330.7 71.6^{x}
42.3 140.4^{x} $+0.77^{x}$

R Below Mean = $+0.91^{x}$
69.0
132.8 63.8^{x}
248.8 61.9^{x}
310.7 125.7^{x} +1.07
~~6~~
69.1 +1.08
9 14.8 138.2 62.1^{x}
22.6 246.5 63.1^{x}
9 11.3 × 309.6 125.2^{x} + 1.08
5 - 9
14 10.47 G. M.T.
5316.590^{d}

October 23, 1900.

Phot I. – β Persei W Ob.

27 2 +40.6

abandoned for the present

SS Cygni

21 39 +43.1

23 49

2 10

21 34 +42.5

24 00

2 26

9 46 Clouds

see next page

Oct. 23, 1900.

Phot. J. δ & δ Cygni. W Ob.

L & a.

Ledgered.

166.7

10 07 10 208.9 < comp × dis 42.2″

344.0 Clouds. 47.1″

31.1 89.3″ + 1.93″

165.2 +1.94″

11 40 210.8 45.6″

346.8 43.4″

30.2 89.0″ + 1.94″

R O Below Mean = + 2.09″

78.4

15 40 118.8 40.4″

259.6 38.8″

298.4 79.2″ + 2.22″

$\overset{8}{7}0.2$

+ 2.24″

10. 18 00 118.0 37.8″

5 2 30 258.8 40.1″

10 13 08 298.9 77.9″ + 2.26″

5 – 54

15 12 14 Gr. M.T.

5316.6334

Oct. 23, 1900.

Same Again

R & Below

79.1

10 25 55 119.4 stars faint. 40.3″

260.2 37.4″

297.6 77.7″ + 2.26″

7 A 2 + 2.24″

30

~~8~~ 45 118.2 40.0″

260.3 39.6″

299.9 79.6″ + 2.21″

L & Above

Mean = + 2.13″

345.9

35 25 30.9 45.0″

168.4 41.2″

209.6 86.2″ + 2.02″

+ 2.02″

346.2

10 37 15 30.6 44.4″

1 29 20 167.6 42.0″

10 32 20 209.6 86.4″ + 2.01″

5 - 54

15 31 26 Mn. M. time.

5°3 16.646A″

October 23, 1900

III

L & Above
~~R & Below~~

346.7
10 40 35 30.1 434
164.1 432
211.3 86.6
~~347.2~~

347.2 Stars gone
43 30 29.4 422
1 Clouds thick,
2 no stars visible in field or (through shutter
~~L & Above~~
R & Below

10 55 Cloudy

11 15 Cloudy

11 20 "

12 0 "

12 15 Thickly cloudy.

Posted to
here

Oct. 23. 1900.

	B. + C. 1182.			B. 394.	
12	18	√4.7	12	18	0.0
	19	√4.6		19	0.0

Oct 24, 1900 (Wednesday)

B&C 1182 | B 394
7 04 04.4 | 7 03 0.0

Phot T. SS Cygni W 6b

21 34 +42.5
21 41
0 07
Too high

S Piscium
25 6 +6 8
21 46
3 20
8 40

see next page for meas.

Oct. 24, 1900

Hagen no. 12 with 10.

L & a

327.5 < comp. & dis. — Ledger set. Posted

7 57.4 — 53.0 — 85.5

146.0 — 84.6

230.6 — 170.1 + 0.19

0.18

327.8

53.6 — 85.8

147.3 — 84.7

232.0 — 170.5 + 0.18

R & B.

237.5 — Mean = + 0.24

317.2 — 79.7

58.3 — 82.8

141.1 — 162.5 + 0.33

238.0 — + 0.30

8 03.0 — 3~~2~~19.4 — 81.4

8 00.2 — 56.6 — 84.2

5 -1.1 — 140.8 — 165.6 + 0.27

12 59.1 Gr M Time

5317.541

Oct. 24, 1900.

Hagen no ~~13~~ with 10

Left & Below

326.5 < Comp. ✱ obs. Ledgered Posted

8 11.4 47.6 81.1^{x}

151.9 74.3^{x}

226.2 155.4^{x} $+ 0.47^{x}$

330.6 0.42^{x}

49.2 78.6^{x}

148.2 81.3^{x}

229.5 159.9^{x} $+ 0.38^{x}$

Mean = $+ 0.52^{x}$

Rt Above

241.6

316.6 75.0^{x}

61.1 75.3^{x}

136.4 150.3^{x} + 0.57

242.9 ^{x} + 0.62

8 .16.4 316.4 73.5

7.8 62.4 71.5^{x}

8 13.9^{x} 133.9 145.0^{x} + 0.67

5 1.1

13 12.8^{x} Gr.M.T.

5317.551^{x}

Oct. 24 1900.

Phot. J. SS Cygni.
21 34 +42.5
22 47
1 13

Left & Above
163.4 < comp + dis
8 31 24 213.6 50.2*
344.9 46.1*
31.0 96.3* +1.75*

165.6 +1.72*
33 30 212.8 47.2*
343.1 51.3*
344 98.5* +1.69*

Ledgered
Posted

R + Below
73.3 mean = +1.88
36 10 120.2 46.9*
260.1 40.4*
300.5 87.3* +1.99*

78.5 +2.04*
8 38 25 189.5 41.0*
19 29 256.5 43.0*
8 34 52 299.5 84.0* +2.08*
5-1-4
13 33 48* G. M. Time.
5317.5652*

Oct 24, 1900.

Same Again.

Rt Below

76.5
8 40 30 119.9 43.4
256.5 43.4
299.9 86.8 + 2.00

+ 2.02

79.2
42 40 120.6 41.4
256.6 43.8
300.4 85.2 + 2.05

Lt Above mean = + 1.88

342.9
45 10 36.0 53.1 ~~37~~
164.4 47.1
211.5 100.2 + 1.65

346.5 + 1.73
8 47 35 31.5 45.0
15 55 163.7 48.8
8 43 59 212.5 93.8 + 1.81
5 -1 4 Final Mean = + 1.88
13 82 55 Gr. M. Time Pos Angle = 232.2
5317.5714 Sprocket Wheel = B = -3.5
= C = -2.5

Oct 24, 1900.

Obs made with great care, altitude high

Phot T. Eros. N Obs.

2 28 58 +52 23.1
-10 +1.5
2 28 48 +52 24.6
-3 6 -11.9
2 25 42 +52 12.7 (1855)
2 25 14 52 8.3
+28 +4.4

26 44 +52.1
23 34
3 10
8 50

Eros precedes a faint star 12.5 secs & is
9 28 1.2′ north of it

Comp star a = DM +52° 595 (9.0)
" " b = DM +52° 596 (9.3)

Oct. 29 1900

Error. with. α (90)

L & Above

163.9 ∠comp * obs Ledgered Posted

9 39.2 214.4 50.5*

343.9 50.5*

34.4 101.0* + 1.63*

162.2 + 1.63*

21~~4~~3.8 51.6*

344.6 49.6*

34.2 101.2* + 1.63*

R & Below Mean + 1.74*

74.9

122.8 47.9*

25~~7~~6.4 45.3*

301.7 93.2* + 1.83*

76.2 + 1.86*

9 45.0 121.2 45.0*

9 42.1 254.9 46.0*

5 - 1.1 300.~~6~~9 91.0* + 1.89*

14 41.0* Gr. M. Time.

5317.612*

Oct 24, 1900

Same Again.

R & Below

76.7

9 47.0 122.4 45.7^x

256.8 42.5^x

299.3 88.2^x + 1.96^x

77.2 + 1.95^x

121.4 44.2^x

255.9 45.0^x

300.9 89.2^x + 1.94^x

L & Above Mean = + 1.86^x

344.4

~~2~~ 32.1 47.7^x

~~1~~6 5.1 46.8^x

211.9 94.5^x + 1.80^x

34 ~~0.1~~ 4.2 + 1.77^x

9 54.8 ~~2~~ 31.1 46.9^x

101.8 ~~1~~6 2.2 49.9^x

9 50.9 212.1 96.8^x + 1.74^x

5 - 1.1

14 49.8^x Gr M Time Final Mean = + 1.80

5 317.618^x

Oct. 24, 1900

Eros with *t.* (9.3)

Left & Above — Ledgered Ported.

153.8

10 00.2 — 224.3 <comp. & dis.

332.6 — 70.5″

46.4 — 73.8″

144.3″ + 0.69″

146.7

227.2 — 80.5″ + 0.60″

331.9 — 72.6

44.5 — 153.1 + 0.51

Right & Below

66.1 — Mean = +0.67″

134.6 — 68.5″

242.0 — 73.6″

315.6 — 142.1″ + 0.73″

60.4 — +0.74″

10 06.2 — 136.2 — 75.8″

10 03.2″ — 245.6 — 65.5″

5 − 1.1 — 311.1 — 141.3″ + 0.75″

15 02.1″ Gr. M. Time

5317.626″

Oct. 24, 1900

Same again

R & Below

65.6
10 08.0 132.9 — 67.3^{s}
243.0 — 70.3^{s}
313.3 — 137.6^{s} + 0.82^{s}

+ 0.76^{s}

62.4
136.7 — 74.3^{s}
244.0 — 69.1^{s}
313.1 — 143.5^{s} + 0.71^{s}

L & Above

Mean = + 0.69^{s}

330.3
46.8 — 76.5^{s}
153.7 — 70.6^{s}
224.3 — 147.1^{s} + 0.63^{s}

+ 0.62^{s}

332.2
10 14.5 42.2 — 70.0^{s}
10 11.2 151.3 — 77.6^{s}
5 -1.1 228.9 — 147.6^{s} + 0.62^{s}

15 10.14 Gr M Time.

Final Mean = + 0.68^{s}

5 317.6 32
Eros ~~faint~~ now precedes faint 16 secs and is 1.8' north of it.
10 23
10 25 Eros now follows comp star a by 1m 1.6 secs and 2.0' north of it.
Alt. high making obs. somewhat difficult

Oct 24, 1900

Phot R. o Ceti. ~~~~ N 66.

26 12 - 3.6
24 55
1 17
10 43

R & Above ~~~~ Ledgered.
Plotted.
Posted.

178.3
10 35.4 205.2 ~~~~ 26.9
358.5 ~~~~ 25.3
23.8 ~~~~ 52.2 - 3.17

176.4 ~~~~ - 3.16
203.7 ~~~~ 27.3
358.6 ~~~~ 25.5
24.1 ~~~~ 52.8 - 3.15

L & Below ~~~~ Mean = - 3.14

88.4
114.3 ~~~~ 25.9
267.7 ~~~~ 28.0
29~~0.5~~ 5.7 ~~~~ 53.9 - 3.11

88.1 ~~~~ - 3.13
10 42.2 114.7 ~~~~ 26.6
77.6 268.3 ~~~~ 26.1
10 38.8
5 - 1.1 294.4 ~~~~ 52.7 - 3.15
15 37.7 G. M. Time.
5317.651

Oct. 24, 1906

Same Again.

L & B.

88.3

10 44.2 114.3 26.0*

267.2 27.2*

294.4 53.2* — 3.13*

87.3 — 3.11*

113.9 26.6*

267.6 27.7*

295.3 54.3* — 3.09*

R & a. Mean = −3.12*

357.9

24.8 26.9*

177.8 26.4*

204.2 53.3* — 3.13*

357.4 — 3.13*

10 49.8 24.3 26.9*

14.0 178.2 26.3*

10 47.0* 204.5 53.2* — 3.13*

5 −1.1

15 45.9* Gr. M. Time Final Mean = −3.13

5317.657*

Oct. 24, 1900.

Phot T. S.S. Aggroi W 66

21 34 + 42,5
25 24
3 50

L&a. old m or new e

344.6
11 03 48 32,5 < comp + dis 47.9* Ledgered
Posted.
164.6 48.1*
212.7 96.0* + 1.76*

343.0 + 1.72*
05 40 34.0 51.0*
164.7 48.6*
213.3 99.6* + 1.67*
R&B. Mean = + 1.78*
255.3
08 30 302.4 47.1*
76.7 44.8*
121.5 91.9* + 1.86

256.3 + 1.84
11 11 10 302.5 46.2*
29 08 74.8 46.9*
11 07 17* 121.7 93.1* + 1.83
5 −1 4
16 06 13* Gr. M. Time -
5317.6709*

Oct 24, 1900 Posted to here.

Same Again.

R of B.
256.1
11 13 32 302.3 46.2*
75.8 45.5*
121.3 91.7* + 1.87*

256.3 + 1.87*
15 38 301.9 45.6*
74.9 46.2*
121.1 91.8* + 1.87*

Mean = + 1.80*

L of A.
164.5
19 08 212.6 48.1*
344.5 48.1*
32.6 96.2* + 1.75*

164.6 + 1.73*
11 21 06 212.8 48.2*
6 9 24 343.1 49.8*
11 17 21* 32.9 98.0* + 1.71*
5 - 1 4 Final mean = + 1.79
16 16 17* Gr. M. Time. Pos. Angle = 232.0
5317.6780* Sprocket wheel ~~= 13 = 3.~~
" " ~~= 0 = 3.~~

11 28 Sprocket wheel accidently run down into

Oct 25, 1900 (Thursday)

R & C 1182 B 394
7 33 09.0 7 32 00.0

Phot. T. ζ Herculis W Ob.
1.7 54 +15.2
21 .14
3 20

I

R & Above Lt Eq = +.0024

6
7 52 30 171.6 ∠ vardis
205.7 34.1 Ledgered
351.8 35.0 Plotted
268 69.1 −2.54

172.1 −2.54
54 30 206.1 34.0
353.0 35.1
28.1 69.1 −2.54
L & Below Mean = −2.66

8 4.6 8
56 36 1.1 3.8 29.2
263.3 32.7
296.0 61.9 −2.79

82 0 −2.78
6 58 30 11 6.1 34.1
22 06 263.9 28.6
6 55 32 292.5 62.7 −2.76
5 − 1 09
11 54 21 G. M. Time

5318.4961 5318.4961
5318.3199 5318.5204
+0.1762 Dunér 0.1757 Hart

Oct. 25, 1900.

II

L & B below

85,0
7 04 56 115.0 30.0*
2626 32.7*
295.3 62.7* – 2.76*

– 2.74*

81.7
0622 115.8 34.1*
263.9 29.6*
293.5 63.7* – 2.73*

R & above

mean = – 2,66*

352.0
09 03 26.0 34.0*
170.1 35.0*
205.1 69.0* – 2.54*

351.2
7 11 06 266 35.4* – 2.58*
31 27 171.5 31.1*
7 07 52* 2026 66.5* – 262*
5 – 1 09
12 06 43* G. M. Time

5318.5047* 5318.5047
5318.3199 5318.324
+0.1848* Dunér + 0.1843 Hartwig.

Oct. 25, 1900

III

R ♀ Above
353.2
7 15 20 25.2 32.0
172.3 32.9
205.2 64.9 -2.68

352.1 2.66
17 05 25.9 33.8
172.4 32.1
204.5 65.9 - 2.65

L ♀ Below Mean = -2.72
264.7
19 15 292.4 27.7
82.2 33.9
116.1 61.6 -2.80

262.4 -2.78
7 21 00 295.2 32.8
72 40 85.1 29.7
7 18 10 114.8 62.5 -2.77
5 -1 -09
12 17 01 Gr. M. Time
5 318.5118 5318.5118
5318.3199 5318.3204
0.1919 [illegible] +0.1914 Hartwig

Oct. 25, 1900

IV

L ∘ Below

~~264.1~~

7 25 38 ~~293.9~~ ~~29.8~~

~~82.2~~ ~~33.4~~

~~116.5~~ ~~63.2~~ – 2.

Clouds

2 stars very dim

2

8

1

R ∘ Above

8 00 Cloudy

Pos Angle 287.2

Sprocket Wheel = – 2.5 B

" " = – 1.8 C

" " = 3.5 A

Images not exactly superposed.

Phot T. S.S Cygni W Ck

21 34 + 42.5

22 50

1 16

8 40 Cloudy

9 10 clouds all thick.

9 30 Still Cloudy

Posted to new

Oct 2~~4~~5 1900

9 35 Cloudy

9 40 Impossible to get SS Cyg nor any thing else. Clouds thick and getting thicker

---

From this line (incl.) to bottom of this page, properly belongs on p. 43 under date of Oct. 29. 1900. It was put on this page by accident.

Eros. Phot. T.			Lo. ob.	
2	20	44.	+53	24.2
		-3.		+0.2
2	20	41.	53	24.4
	-3	4.		-12.3
2	17	37.	53	12.1

26 44 +52.1
21 54
4 50
7 10

7 20 Object (prob. Eros) precedes DM +52° 5~~83~~(9.0) by 13.5 secs and is 14'.3 North of it

7 23 Eros precedes faint star 8.5 secs and is 1'.1 North of it

7 32 Eros follows another faint Star 13.5 secs and is 2'.8 South of it.

Oct. 29, 1900 (Monday)

See also p. 42.

B&C 1182 B. 394
6 53 035 6 · 53 0.0

7 45 Cloudy
8 30 Cloudy
phot T. β Persei. W Ob

27 2 +40.6
23 17

3 45
8 15

8 45 Cloudy still.

9 00 Impossible to get Eros: β Persei: or anything else. All cloudy. Fog & cloud very thick no stars visible

Object glass a very little dewed

B&C 1182 B 394
21 06 385 21 04 0.0
21 07 38.5 21 05 0.0.

Oct. 31. 1900. (Wednesday)

Cleared at about 8.20 PM.

Eros. Plot. T.			Nr. obs.	
2	17	2.	+53	43.0
		−12.		+0.9
2	16	50.	+53	43.9
	−3	6.		−12.4
18 55 = 2	13	44.	+53	31.5
+53° 519 = 2	14	12.	+53	33.1
		−28.		−1.6

26 12 +55.2
23 42
2 30
9 30

8 45 Clouds

8 59 Star a precedes star b 11.5 secs. and is 2.8' North of it.

9 00 Star b precedes star c 11.5 secs. and is 0.8' North of it

9 02 Star c precedes the 9.0 (BD +53° 518 (9.0)) by 31.2 secs and is 0.8' South of it.

Comp Star = BD +53° 513 (8.6)

Oct 31, 1900

Eros with (8.6)

9 20 Clouds thick

1007 clouds thick everywhere no stars visible in or out of telescope no chance for anything farther.

Nov. 1, 1900 Thursday

B x C 1182	B 394
8 54 58.5	8 53,00
8 55 58.5	8 54 00

8 50 Clouds thin for a very brief interval
now thicker again

9 00 clouds very thick

9 35 Cloudy, slight sprinkles of rain,
evidently no chance for any work.

B 394	B x C 1182
21 28 0.0	21 29 58.5
21 29 0.0	21 30 58.5

Nov. 2, 1900 (Friday)

B 394 B O C 1182

6 28 0.0 6 29 52.2

6 29 0.0 6 30 52.2

Phot T. ν Cephei W Ob.

0 50 +81.1

21 30 Julian Day 5326.

3 20 −.0022 = Lt. Eq.

8 40

I

Ledgered

Above & Left

148.4 < var. dis.

6 38 13 227.6 79.2×

330.1 75.0×

45.1 154.2× −0.49×

149.8

39 41 228.5 78.7× −0.36×

324.8 88.4×

53.2 167.1× −0.2×

Below & Right Mean = −0.42×

55.2

42 00 138.4 83.2×

245.4 70.3× 26.4853×

315.7 153.5× − 0.5 24.0068

+2.4785

62.8 −0.48×

6 43 20 195.1 72.3×

~~74~~ 239.4 83.7×

16 3 14 323.1 156.0× − 0.46× 5326.4853×

6 40 48 5326.3402

5 −1 52

Uniform +0.1451

11 38 56 Gr M Time.

Nov. 2, 1900.

II

R & Below
56.5
6 45 47 144.8 .883*
243.2 70.6*
313.8 158.9* − 0.40*

62.8 0.43*
47 30 135.9 73.1
238.0 83.0*
321.0 156.1* − 0.46*

L & Above Mean = −0.28*
324.3
49 20 53.0 88.7*
150.1 79.7*
229.8 168.4* −0.22*

324.9 −0.12*
6 51 11 50.6 85.7*
193 48 142.0 92.8*
6 48 27* 234.8 178.5* − 0.03*
5 −1 52
11 46 35* Gr. M. Time.
5326.4907 26.4907*
5326.3402 24.0068
+ 0.1505* + 2.4839*

Nov. 2, 1900.

III

Lt Above

320.2

6 55.00 57.5 97.3″

147.6 84.9″

232.5. 182.2″

177.8″ +0.04″

324.5

5 6 35 52.1 87.6″ +0.06″

140.8 96.4″

237.2 184.0″

176.0 +0.08″

R t Below. mean = +0.03″

231.6

5 8 56 324.8 93.2″

57.6 85.8″

143.4 177.0″ − 0.02″

236.7

7 00.33 321.7 85.0″ 0.00″

6 23 1 04 50.6 96.3″

7 57 46 146.9 181.3″

5 − 1 52 178.7″ +0.02″

1 55 54 G. M. Time.

5326.4971 26.4971

5326.3602 26.0068

+0.1569″ +2.4903″

Nov. 2, 1900.

IV

R & Below

233.6

7 05 14 325.9 92.3

57.5 86.4

143.9 178.7 − 0.02

232.8

07 30 323.2 90.4 + 0.03

54.2 94.2

148.4 184.6

175.4 + 0.08

L & Above

139.2

0938 241.1 101.9 mean = +0.22

320.0 100.5

60.5 202.4

157.6 + 0.43

139.1

7 11 24 237.8 98.7 + 0.42

33 46 318.3 103.1

7 08 26 61.4 201.8

5 −1 52 158.2 + 0.42

12 06 34 G. M. Time.

53[illegible].5046 5326.5046

53~~26~~.3402 5326.4992

+0.1644 +0.0054

Nov. 2, 1900

V

Lo Above

136.4
7 15 40 242.6 106.2″
319.2 100.0″
59.2 206.2″
153.8″ +0.50″

138.2
17 17 240.8 102.6″ +0.52″
315.9 105.6″
61.5 208.2″
Rt Below 151.8″ +0.54″
47.4
19 40 150.9 103.5″ mean = +0.45″
231.7 94.1″
328.8 197.6″
162.4″ +0.33″

51.4
7 21 45 147.4 96.0″ +0.38″
7 4 22 225.3 106.8″
7 18 36 332.1 202.8″
5 1 52 157.2″ +0.43″
12 16 44 Gr M Time
5 326.5116″
5 326.3402
+0.1714″

26.5116″
26.4992
+0.0124″

Pos. angle = 111
Sprocket wheel = a - 2.5
= B - 1.5

Nov. 2, 1900.

Eros. Plot, J. W. obs.

2 13 6.0 +53 58.6
- 3.8 -12.6

1855.1 2 10 2 +53 46.0
2 9 41. 53 41.5
~~+16~~ ~~+5.1~~
+21 +4.5

26 12 +55.2
22 37
3 35
8 25

Comp. star b = Dm + 53° 493 (9.5)
" " a = Dm + 53° 493 (8.4)

Nov. 2, 1900.

Eros with star a (8.4)

Right O Below   Ledgerd

252.4   < comp * dis
8 06.7   303.9   51.5
74.6   48.1
122.7   99.6   +1.67
253.8
308.2   49.4   +1.64
73.1   57.9
125.0   101.3   +162

Lo above   mean = +1.50
159.2
217.3   58.1
341.1   55.2
36.3   113.3   +1.34

161.2   +1.37
8 14.0   215.6   54.4
20.7   340.2   56.2
8 10.4   36.4   110.6   +140
5 - 1.9
13 8.5 Gr. M. Time.
5326.548

Nov. 2, 1900

Eros with *a* again

Left & above

158.6

8 15.4 216.9 58.3^s

341.2 54.6^s

35.8 112.9^s +1.35^s

160.5 +1.34^s

215.5 55.0^s

339.1 58.3^s

37.4 113.3^s +1.34^s

Right & Below Mean = +1.50^s

73.0

124.6 51.6^s

253.2 49.1^s

302.3 100.7^s +1.64^s

75.2 +1.66^s

8 21.0 123.1 47.9^s

36.4^s 252.8 51.3^s

8 18.2^s 304.1 99.2^s +1.68^s

5 − 1.9

13 16.3^s Gr. M. Time.

5326.553^s

Nov. 2, 1900

Eros with Star b (9.5)

Right & above

237.2 < comp * dis — Ledgered

8 24.1 — 318.4 — 81.2″

57.0 — 83.6″

140.6 — 164.8″ + 0.29″

239.0 — +0.30″

~~318~~. 320.2 — 81.2″

58.2 — 82.4″

140.6 — 163.6″ + 0.31″

~~Left~~ & Below

138.7 — mean = +0.12″

234.3 — 95.6″

324.3 — 89.4″

53.7 — 185.0″

175.0″ −0.09

14$\overset{3}{\cancel{4}}$.3

8 30.8 — 234.3 — 91.0″ — −0.06

8 27.4″ — 323.2 — 90.1″

5 −1.9 — 53.3 — 181.1″

12 25.5 Gr. M. Time — 178.9″ − 0.02″

5 3 26.5 60

Nov. 2, 1900.

Eros with b again.

Left & Below
142.5
8 33.4 234.4 91.9
322.9 92.1
55.0 184.0
176.0 −0.08″
140.6
233.2 92.6 −0.08″
322.4 91.3
53.7 183.9
176.1 −0.07″
Right & above Mean = +0.11″
57.9
140.2 82.3
237.1 81.2
318.3 163.5 +0.31″
57.3
8 41.4 141.9 84.6 +0.30″
8 37.4 238.3 80.8
5 −1.9 319.1 165.4 +0.28″
13 35.5 Gr. M.T.
53 26.566 α The above observed object is certainly Eros at has moved to preceding
8 55 about 5 secs. and about 0.′5 north
since first recognized before observations

Nov 2, 1900.

Phot T. R Ursae Minoris
16 34 +72.9 W 6b
23 54
7 10

16 34 +72.9
24 27
7 53

Ledgered
Plotted

~~At~~ above comp x dis
242.6
9 37.4 312.8 70.2
65.6 66.0
121.6 136.2 + 0.85
245.1 +0.86
311.2 66.1
63.8 69.7
133.5 135.8 + 0.86
Below Mean = + 0.74
149.4
227.4 78.0
334.5 71.2
45.7 149.2 +0.59

154.6 +0.61
9 43.0 225.0 70.4
9 40 2 330.2 76.8
5 -1.9 47.0 147.2 +0.63
14 38.3 G. M. T.
5326.610

Nov. 2, 1900.

Same Again

Below
151.2
9 45.0 228.4 77.2
333.3 72.1
45.4 149.3 + 0.59

154.4 +0.62
224.0 69.6
329.5 77.2
46.7 146.8 + 0.64

Above mean = +0.72
64.8
133.6 68.8
244.2 68.8
313.0 137.6 + 0.82

63.8 +0.82
9 51.2 132.0 68.2
9 48.1 244.2 69.0
5 -1.9 313.2 137.2 + 0.83
14 46.2 Gr. M. Time.
5326.615

Pos Angle = 136.3
Sprocket Wheel = B = -5.5
= C = -4.7

Nov. 2, 1900.

Selection of standards near
~~U Cassiop.~~ W.Cb.
U Arietis.
2 58 +12.7
1 08

1 50
10 10

Exam of region made, stars selected
10 23 – last time seem to be as good
as can be done. moon rather
bright.

Phot R. o Ceti W.Cb.
2 12 – 3.6
1 26

0 46
11 14

Nov 2, 1900

o Ceti.

Ledgered.
Plotted.

Left
267.2
10 32.5 297.2 30.0+
87.4 28.9+
116.3 58.9+ - 2.90+

- 2.85+

266.0
297.5 31.5+
87.5 30.1+
117.6 61.6+ - 2.80+

Right Mean = -2.84+
176.1
207.2 31.1+
357.0 28.6+
25.6 59.7+ - 2.87+

- 2.84+
176.4
10 39.5 207.0 30.6+
10 36.0+ 356.8 30.4+
5 - 1.9 ~~20~~27.2 61.0+ - 2.82+
15 34.1+ Gr. M. Time.
5326.649

Nov. 2/1900.

Same Again

Right

175.2
10 42.4 207.1 31.9
356.6 29.2
25.8 61.1 − 2.82

176.4 − 2.83
206.6 30.2
356.7 30.6
27.1 60.6 − 2.84

Left. Mean = − 2.84
86.9
116.5 29.6
266.2 30.9
297.1 60.5 − 2.84

86.8 − 2.84
10 48.8 117.5 30.7
266.7 29.8
10 45.6α 29~~7.2~~ ~~61.2~~ − 2.84
296.5 60.5
5 − 1.9
15 43.7α Mn M Time
53 26.656α

Nov. 2, 1900

Phot T. R Ceti W6k

2 20 −0.4

1 55

0 25

11 35

11 00 ~~C.S.~~ Preliminary selection of 12th magn. stars made.

Phot T. S.S. Cygni. W6k

21 34 +42.5

26 04

4 30

see next page

Nov. 2, 1900.

S.S. Cygni

Ledgered

Left & Above

353.2 K comp. * dis = m (old) or (new)

11 11 19 25.6 32.4

170.5 34.8

205.3 67.2 + 2.60

+ 260

353.0

3

1808 26.0 33.0

171.4 34.2

205.6. 67.2 + 2.60

R & Below Mean = + 2.84

265.5

15 12 292.1 26.6

85.0 27.2

112.2 53.8 + 3.11

265.3 + 3.07

11 16 58 294.8 5 29.2

16 37 85.1 26.5

11 14 09 ~~11.0~~ 55.7 + 3.03

5-1 52 111.6

16 12 17 Gr. M. Time

5326.6683

Posted to here.

Nov. 2, 1900

~~Same Again~~

~~R + Below~~

U Cassiopeiae W Cds.

0 41 +47.7
2 21
1 40

0 39 +47.4
2 29
1 50

0 36 +47.4
2 30
1 54

11.42 . Preliminary selection of 12th magn. Stars for U Cassiop.

Nov. 5, 1900 (Monday)

138 C
6 46 41.3
6 47 41.4

13 39 K
6 44 0.0
6 45 0.0

Phot J. χ Cygni W Obs.
19 45 +32.6
22 05
2 20

6 55 Clouds

19 45 +32.6
22 15
2 30

~~7~~ 00 Cloudy

8 00 cloudy

8 45 too cloudy for χ Cygni yet.

Phot R o Ceti W Obs.
2 12 −3.6
0 00
2 12
9 48

see next page

Nov. 5, 1900.

Phot. R. o Ceti. W Obs.

(Julian Day 5329.)
Plotted.
Ledgered.

Left
81.~~4~~ 2
9 12.7 112.9 31.7
259.6 32.0
291.6 63.7 − 273

− 271
79.5
111.6 32.1
259.6 32.5
292.1 64.6 − 269

Mean = − 2.72

Right
349.3
21.5 32.2
169.6 31.4
201.0 63.6 − 273

− 274
349.7
9.29.5 21.3 31.6
169.9 31.0
42.2 200.9 62.6 − 276
9 21.1
5 − 2.7
14 18.4 Gr. M. Time.
5329.596

Nov. 5, 1900

o Ceti again.

~~349.8~~
Right
349.8
9 31.8 21.2 31.4*
170.2 30.5*
200.7 61.9* — 2.79*

2.80*
350.0
20.7 30.7*
170.8 31.0*
201.8 61.7* — 2.80*
Left. Mean = — 2.80*
261.8
291.8 30.0*
80.8 30.6*
111.4 60.6* — 2.84*

— 2.80*
259.8
9 38.7 291.1 31.3*
10.5 79.4 31.7*
9 35.2* 111.1 63.0* — 2.75*
5 —2.7
14 32.5* Gr. M. Time.
5329.606*

Nov. 5, 1900

Same Again.

Left

260.1
9 43.4 291.8 31.7
79.9 31.2
111.1 62.9 - 2.75

260.5 - 2.78
291.1 30.6
80.6 39.8
111.4 61.4 - 2.81

Right. Mean = - 2.78

169.7
201.5 31.8
351.3 29.3
20.6 61.1 - 2.82

- 2.78

169.7
9 50.3 201.9 32.2
93.7 351.3 30.4 9
9 46.8 ~~21.7~~ ~~62.6~~ - 2.78
5 - 2.7 22.2 63.1
14 44.1 Moon very bright and not far distant
5329.614 Observation somewhat difficult.

Nov. 5, 1900.

Phot I χ Cygni. W Obs.

19 5 +32.6
25 15
5 30

L & a. Plotted.
Ledgered

81.9 < comp * dis.
1019.4 117.1 35.2"
262.6 34.3"
296.9 69.5" +2.52"

81.7 +2.56"
115.4 33.7"
263.1 33.5"
296.6 67.2" +2.60"
R & Below
349.8 Mean = +2.37"
28.4 38.6"
168.5 40.4"
208.9 79.0" +2.22"

347.6 +2.18"
1027.2 29.6 42.0"
1023.3 *170.0 39.4"
5-2.7 209.4 81.4" +2.45"
15 20.6 – 4m m time.

5° 329.640"

Nov. 5, 1900.

χ Cygni Again

R & Below
349.8
10 30.0 28.0 38.2*
169.1 40.7*
209.8 78.9* + 2.23*

347.4 + 2.18*
29.9 42.5*
170.0 39.5*
209.5 82.0* + 2.14*

L & Above Mean = + 2.36
262.8
297.1 34.3*
80.9 36.1*
117.0 70.4* + 2.49*

262.6 + 2.54*
10 41.4 296.4 33.8*
71.4 81.4 33.7*
10 35.7* 115.1 67.5* + 2.59*
5 - 2.7
15 33.0* Gr. m Time.
5329.668*

Pos angle - 199.2
Sprocket wheel: a - 3.5
" " = B - 2.5

Nov 5, 1900.

χ Cygni

Region a little low & moon pretty bright.

Phot R.   M. P. ×41   W 66
3 31   3 31 + 62.8
2 11   2 11   Plotted.
1 20   2 20   Ledgered.
10 40   ~~9 40~~

Below
249.9 (vandis.
11 08.5   302.1   52.2*
68.6   56.2*
124.8   108.4*   −1.45*
249.4
306.4   57.0*   −1.41*
68.6   55.2*
123.8   112.2*   −1.37*

above   mean = −1.40*
158.4
216.4   58.0✓
339.8   54.2✓
34.0   112.2✓   1.37*
159.8   −1.38
11 14.5   214.8   55.0✓
11 11.5   340.0   56.2✓
5−2.7   36.2   111.2* −1.39*
16 8.8 Gr M. Time.
5329.673*

Posted

Nov. 5, 1900

Same Again

Above
157.2
11 16.0 216.1 58.9+
339.4 55.8+
35.2 114.7+ − 1.36+

~~+~~1.32+

158.7
215.0 56.3+
337.5 57.1+
34.6 113.4+ − 1.34+

Below mean = +1.36
67.7
122.8 55.1+
250.2 54.8+
305.0 109.9+ +1.42+

68.8 +1.38+
11 22.0 123.9 55.1+
11 19.0+ 246.8 58.5+
5 − 2.7 305.3 113.6+ +1.36+

~~16~~ 16.3 Gr. M. Time.

5329.678+ B+C. B39X

21 08 38.1 21 06 00

21 09 38.0 21 07 00

Nov 6, 1900 (Tuesday)

B&C 1182 B 394
7 07 37.5 7 05 0.1

2606 +54.3
2236
330
830

Eros. Plot. Tc Gr. obs.

	2	5	7.	+54	17.5
			-5		+0.1
Eros (1+5-5)	2	5	2.	+54	17.6
		-3	6.		-12.8
	2	2	1.	+54	4.8
	2	2	1.		16.6
			0.		~~-9.8~~
					-11.8

25 52 +53.8
22 57
2 65
9 05

25 52 +53.8
23 05
2 47
9 13

Nov. 6, 1900.

α D.M. +54° 478 (9.0)

7:58 Eros precedes, 15 ^s ± 12.5 South of it.
7:59 Eros prec. another star 1.5 ^s & 7.7 N. of it.

Comp * a = +53° 470 (8.8)
Comp * b = +53° 461 (9.5)

Eros with Star a (8.8)

Above Ledgered

160.8 < comp star dis.
8 25.0 217.5 56.7*
341.4 57.6*
39.0 114.3* + 1.32*
16213 +1.40*
216.0 54.1*
342.4 53.8*
36.2 107.9* + 1.47*
Below Mean = + 1.48*
72.7
122.9 50.2* 8
252.4 54.9*
307.3 105.1* + 1.53*

71.5 +1.56*
8 33.8 123.7 52.2*
254.7 56.6*
58.8
8 29.4 304.7 102.2* + 1.60*
5 - 2.6
13 26.8 G.M. Time. 5330.560

Nov. 6, 1900

Eros with S.S again.

Below

74.4
8 37.0 122.9 49.5*
253.2 50.8*
304.0 100.3* + 1.65*

72.9 + 1.68*
122.2 49.3*
253.8 48.6*
302.4 97.9* + 1.71*

Above Mean = + 1.55*
339.8
38.0 58.2*
162.2 53.7*
215.9 111.9* + 1.37*

+ 1.38*
341.0
8 46.6 37.5 56.5*
8 3.6 162.0 54.4*
8 41.8 216.4 110.9* + 1.40*
5 - 2.6 4h. m. time Final Mean = + 1.50*
13 39.2 Moon very bright & full, sky a
5330.569 little hazy; altitude high; Ob. a little
difficult, but great care exercised and
obs. considered good.

Nov. 6, 1900.

8 56 Eros now precedes faint star
7 secs; 8.6 N of it.

Phot. β Persei. W6k.

3 2 +40.6
0 15
2 47 6 in Cap used
9 13

above Ledgered

269.3 < var. dir.

9 11 50 287.2 17.9×
91.0 16.4×
107.4 34.3× − 4.11×

270.7
13 50 286.2 15.5× − 4.13×
91.3 18.1×
109.4 33.6× − 4.15×

Below Mean = − 4.06×

181.3
16 57 199.5 18.2×
359.5 18.1× Ep. = 1635
17.6 36.3× − 3.98×

181.7 − 3.99×

9 20 03 198.5 16.8× 5330.5924×
62 40 358.7 19.2× 5328.2441
9 15 40 17.9 36.0× − 4.00× + 2.3483
5 2 38
64 13 02 G.m.T.

Nov. 6, 1900

β Persei. II

Below

180.2
9 22 14 199.0 18.8"
1.2 16.3"
17.5 35.1" — 4.06"

180.1 — 4.03"
24 13 197.7 17.6"
359.2 18.5"
17.7 36.1" — 4.00"

Above Mean = — 4.10"
89.9
27 06 107.0 17.1"
271.2 15.9"
287.1 33.0" — 4.19"

— 4.16"

91.0
9 29 30 107.8 16.8"
23 03 270.0 17.2"
9 25 46 287.2 34.0" — 4.13"
5 — 2 38 Final Mean = — 4.08"
10 23 08 Gr. Mt. Pos. Angle = 235.4
5330.5994" Sprocket Wheel = a — 10.5
5328.2441 — β — 9.5
+2.3553 α

Nov. 6, 1900.

Phot. T. S.S. Cygni. W Ob.

21 34 +42.3
24 54
3 20 Ledgerwood

L & A.

61.8 & var. dis.
9 51 39 136.8 75.0
245.0 67.6
312.6 142.6 −0.72
65.0
55 14 131.6 66.6 −0.74
240.8 74.6
315.4 141.2 −0.75
R & B. Mean = 0.60
10 00 26 ~~331.4~~ 327.4
~~58 30~~ ~~44.2~~ 48.6 ~~72.8~~ 81.2
154.7 72.9
227.6 154.1 −0.50

331.7 −0.66
10 02 11 45.8 74.1
229 30 147.7 83.9
9 57 22 231.6 158.0 −0.42
5 −2 −38
14 54 40 Gr. M. Time
5330.6213

Nov. 6, 1900.

Same again.

R & B.

327.2

10 04 44 69.1 81.9°

152.3 72.7°

225.0 154.6° − 0.49°

333.6 −0.46°

06 12 46.2 72.6°

147.2 84.2°

231.4 156.8° −0.44°

L & A. Mean = −0.60°

240.6

08 40 316.6 76.0°

64.3 67.9°

137.2° 143.9° − 0.70°

244.6° −0.73°

10 10 54 312.5 67.9°

30 30 63.2 73.0°

10 07 38° 136.2 140.9° −0.76°

5 −2 38 Final mean −0.60°

15 05 00° Gr. M. Time Pos. Angle = 233.7

5330.6285° Sprocket Wheel = B = −4.5

= C = −3.5

Nov. 6/1900.

Phot R. o Ceti W Ob.

2 12 - 3.6
1 .37
0 .35
11 25 Plotted.
Ledgered

~~Left~~

262.9
1029.0 293.8 30.9
81.0 34.5
115.5 65.4 - 266

261.4 - 262
294.5 33.1
87.1 32.3
114.4 65.4 - 259

Right.
171.8 mean = - 267
202.7 30.9
350.6 33.1
23.7 64.0 - 271

170.1 - 272
10 35.4 203.8 33.7
10 32.2 352.5 29.9
5 - 2.6 22.4 63.6 - 273
15 29.6 G.M.T.
5330.646

Nov. 6, 1900

Same Again.

	Right		
	172.6		
10 37.6	202.6	30.0	
	350.5	33.1	
	23.6	63.1	− 2.74
	170.5 Clouds		− 2.74
	203.0	32.5	
	352.3	31.1	
	23.4	63.6	− 2.73
	Left		Mean = −2.73
	82.6		
	112.8	30.2	
	261.2	33.5	
	294.7	63.7	− 2.73
	80.8		− 2.72
10 45.0	114.3	33.5	
10 41.3	262.6	30.6	Final M = −2.70
5 −2.6	293.2	64.1	− 2.71

15 38.7 G.M.T. Obs. made through some thin cloud

5330.652 but care exercised & obs considered good.

Posted

Nov. 6, 1900

Phot H. R Camelop. W 6b.

14 40 +84.1
26 10
11 30

14 40 +84.1
26 20
~~12 20~~
11 40

11 25 Too cloudy

Nov. ~~6~~ 7, 1900 (Wednesday)

B 394 ~~[illegible] Again~~ B.D.C. 1182

7 02 00 7 04 250

7 03 00 7 05 250

Phot T. Eros W Obs

25 52 +53.8

22 35

3 17

8 43

7 45 Clouds

8 00 Clouds

8.10 Eros now precedes DM +54° 468 (9.3) by 5.5 secs. and 5.0' S of it. Rather too much cloud & moonlight for satisfactory measurement of Eros.

Phot T. S.S. Cygni W Obs.

21 34 +42.5

23 36

2 02

Nov. 7, 1900

S S Cygni.

L⊕ Above   Ledgered.

65.5 (var. dis.

8 28 20 132.9   67.4

242.2   74.6

316.8   142.0 − 0.73

62.3   − 0.70

30 40 135.7   73.4

243.2   71.5

318.7   144.9 = 0.68

R⊕ Below   Mean = − 0.58

330.9

34 10 46.6   75.7

147.7   81.9

229.6   157.6 − 0.43

328.4   2   − 0.47

8 36 20 49.6   81.2

129 30 152.1   72.2

8 32 22 224.3   153.4 − 0.51

5 − 2 25

13 29 57 Gr M. Time

5331.5625

Nov. 7, 1900

Same Again

Rt Below

332.9

8 38 40 49.2 76.3×

146.7 82.9

229.6 159.2 − 0.40

327.4 − 0.44

40 10 59.0 82.6×

153.3 72.3×

225.6 154.9×

− 0.48

Lt Above mean = − 0.58×

245.7

43 19 312.9 67.2×

61.4 74.8×

136.2 142.0× − 0.73×

242.8 − 0.73×

8 45 56 315.7 72.9×

168 05 63.1 69.2×

8 42 01× 132.3 142.1× − 0.73×

5 − 2 25

13 39 36× Gr. M. Time Position Angle = 234.2

5331.5692× Sprocket Wheel = B = − 4.5

" " = C = − 3.5

Nov. 7, 1900.

Phot	O Ceti.		W 6b
2 12	2 12	− 3.6	
0 27	0 18		
1 45	1 54		
10 15	10 06		

10 10 Rather too much cloud with bright moonlight to measure Omicron at present

Phot P. β Persei. W 6b

3 2 + 40.6

0 36 6 in cap

2 26

9 34

see next page

Nov 7, 1900

Above β Persei.

Ledgerwood

2709
9 22 20 288.0 — 17.1
90.6 — 16.9
107.5 — 34.0 — 4.13

271.1 — 4.16
24 06 287.4 — 16.3
90.6 — 16.9
107.5 — 33.2 — 4.18

Below — mean =-4.03
180.6
26 16 198.3 — 17.7
358.8 — 19.7
18.5 — 37.4 — 3.92

180.2 — 3.90
9 28 55 199.5 — 19.3
21 37 0.2 — 18.8
9 25 24 19.0 — 38.1 — 388
5 - 2 25
14 22 59 Gr. M. Time
5331.5993 Ep. 1636
5331.1115
0.4878

Nov. 7, 1900.

Pounce. Again.

Below

179.7

9 31 28 198.5 — 18.8

358.6 — 20.2

18.8 — 39.0 — 38.2

179.6 — 38.9

33 14 199.2 — 19.6

0.5 — 17.0

17.5 — 36.6 — 39.6

Above — Mean = - 4.08

90.8

35 38 106.5 — 15.7

271.8 — 16.0

287.0 — 31.7 — 42.8

90.7 — 42.8

9 38 25 107.2 — 16.5

18 45 272.2 — 15.2

9 34 41 287.4 — 31.7 — 42.8

5 -2 25

14 32 16 Gr. M. Time Pos Angle 222.4

5331.6058 Sprocket Wheel = α = 10.5

5331.1115 = β = -9.5

+ 0.4943

Nov, 7, 1900.

Phot T. U Cephei. W Obs.

0 50 + 81.1
1 10
0 20

I
Ledgered

9 50 Clouds

9 55 clouds.
9 58 clouds
10 00 Clouds stars gone

Left clouds
58.8 ∡ comp + dis -
10 04 25 140.2 . 81.4
236.4 clouds 86.5
322.9 " 167.9 + 0.23

55.5 "
08 00 142.3 " 86.8 + 0.16
236.4 " 87.9
324.3 174.7 + 0.10

Right clouds Mean = - 0.09 / e = 2985
321.8

16 07 54.7 92.9
139.2 clouds 102.6
241.8 195.5
~~32~~ 319.7 clouds ~~16x 5~~ - 0.29

10 22 20 60.2 clouds 100.5 - 0.36
138.6 clouds 99.9
238.5 200.4
159.6 - 0.39

5 0 5 2
10 12 43
5 -2 26
15 10 18 4 m Time.
5 331.6321

31.6321
31.3256
+ 0.3065 uniform

31.6321
31.4851
+ 0.1470 Hartwig.

Nov. 7, 1900.

II

Right
315.0 clouds
10 34 40 63.4 clouds 108.4
134.4 107.9
242.3 216.3
143.7 − 0.70

314.3
36 44 61.7 107.4 0.61
140.0 100.0
240.0 207.4
152.6 − 0.52

Left
226.5 Mean = − 0.53
39 08 330.0 163.9
50.0 97.1
147.1 201.0
159.0 − 0.40

226.7
40 36 332.6 clouds 105.9 0.45
15 1 08 48.8 clouds 100.1
10 37 47 148.9 206.0 − 0.56
5 −2 25 154.0
15 35 22 Gr. M. Time.

5331.6496 5331.6096
5331.3256 5331.4851
0.3240 Uniform 0.1645 Hartwig.

Nov. 7, 1900 Posted.

III

Left

230.0

10 48 20 330.2 100.2
45.5 106.9
152.4 207.1 − 0.52
152.9

225.2 − 0.54

49 42 332.7 107.5
47.3 101.9
149.2 209.4 − 0.57
Right 150.5 Mean = −0.69

132.8

51 27 242.2 109.4
311.8 113.3
65.1 222.7
137.3 − 0.83

5331.6584
5331.4851
+ 0.1733
Hartwig

133.5

52 56 245.8 Clouds 112.3 − 0.84

202 25
10 50 36 313.8 Clouds 110.8
5 −2 25 64.6 223.1
15 48 11 Sa. M. Time. 136.9 − 0.84

5331.6584
5331.3256
Uniform 0.3328

Obs, on rather made through more or less cloud, causing delay in setting as observer had to wait until clouds grew ~~thin~~ or disappeared.

11 00 Greatly delayed by clouds in 1st group but much less so in other two groups.

Nov. 9, 1900 (Friday)

B 35K	B 8C182
7 28 0.0	7 31 53.4
7 29 0.0	7 32 53.4

Eros. Plat. I. W. obs.

1 52 56.	+54 21.4
−10.	0.0
1 52 46.	+54 21.4
−3 0.	−13.1
1 55 46.	+54 8.3
1 56 9.	+54 13.9
−23.	−5.6

25

4 52 +53,2

23 12

2 40

9 20

7 57 Clouds

Object probably Eros precedes DM +54° 657 (8.9) by

7 58 28.7s and is 5.5' south of it.

7 59 Eros precedes a faint star 10 secs.

Nov. 9, 1900.

Comp. star = DM + 53° 440 (7.9)

8 06 Clouds rather thick.

Too cloudy for Eros: impossible to
9 00. get it.

The above object preceding +54°457 (7.9) by 28s.7 and 5'.5 S. is Eros.

Q Cits:
2 12 - 3.6
0 27
1 45
10 15

see next page.

Nov. 9, 1900

Phot R. o Cti.

Left Ledgered

2595
9 06.5 290.7 31.2*
77.1 35.0*
112.1 66.2* - 2.64*

- 2.62*

257.5
291.9 34.4*
78.4 Clouds 33.3*
111.7 67.7* - 2.59*

Right Mean = -2.61*

168.6
201.7 33.1*
347.2 33.5*
20.7 66.6* - 2.62*

- 2.68*
167.7
9 16.0 201.2 clouds 33.5*
347.6 34.0*
9 11.2* 21.6 67.5* - 2.59*
5 - 3.9
14 7.3* Gr. M. Time -

5333.584*

Nov. 9, 1900.

Phot R. o Ceti again.

~~Left~~ Right

167.8

9 20.5 201.5 33.7*

347.6 clouds 33.0

20.6 66.7* — 2.62*

7

168.4 — 2.60*

201.1 33.7*

347.6 34.0*

21.6 67.7* — 2.59*

Left Mean = - 2.59*

77.4

111.8 34.4*

257.8 33.9*

291.7 68.3* — 2.56*

— 2.58*

77.6

9 29.5 111.9 34.3*

258.3 33.3*

9 25.0* 291.6 67.6* — 2.59*

5 -3.9

14 21.1*

5333.598*

Final Mean = -2.60*

Nov. 9, 1900

Phot W 0 ati again

Left

Ledgered

86.4

9 41.0 119.6 33.2^{d}

267.8 30.7^{d}

298.5 63.9^{d} – 272^{d}

87.5 -2.72^{d}

119.0 31.5^{d}

267.1 32.5^{d}

299.6 64.0^{d} – 271^{d}

Right

Mean = -2.70^{d}

357.0

29.9 32.9^{d}

177.5 32.1^{d}

209.6 65.0^{d} – 268^{d}

357.4 -2.67^{d}

9 47.5 29.9 32.5^{d}

9 44.2 176.8 33.1

5 -3.9 209.9 65.6^{d} -2.66^{d}

14 40.3 Gr. M. Time

5333.611

Nov. 9, 1900

Phot W   o Ceti again.

Right.

356.6
9 50.5 29.8   33.2 x
176.0   33.5 x
209.5   66.7 x -2.62 x

356.5
29.2   32.7 x   -2.64 x
176.3 clouds   ~~32.7~~
209.0.   65.4 x -2.66 x

Mean = -2.69 x

Left

267.4
298.3   30.9 x
87.4   32.2 x
119.6   63.1 x -2.74 x

267.4   -2.74 x
10 01.6 299.0   31.6 x
112.1 87.6   32.1 x
9 56.0 x 119.7 .. .   63.7 x -2.73 x
5 -3.9
14 52.1 x Gr. M. Time.
5 33619 x

Final Mean = -2.70 x

Nov. 9, 1900

Phot T. SS Cygni - H 6 h.
21 34 +42 5
25 46
4 10

10 20 All cloudy

10 45 cloudy
10 56 ~~clear~~ thinner
L & a.
X 9 ? Cardis
10 57 05 137.4 88.2
244.2 69.9
314.1 158.1 -
63.6
58 56 13 .
2 .
3 .
RAB.

Nov. 9, 1900

SS Cygni

	L & A.		
	61.6	< var dis	Wrong Star
10 59 45	134.6	73.0	
	240.1	77.5	
	317.6	150.5	− 0.57
	57.6		− 0.53
11 01 28	138.8	81.2	
	241.8	73.4	
	315.2	154.6	− 0.49
	R & B.		Mean = − 0.41
	326.0		
11 03 24	53.5	87.5	
	151.4	75.8	
	227.2	163.3	− 0.32
	329.2		− 0.29
11 05 00	48.8	79.6	
	145.4	86.8	
	232.2	166.4	− 0.26

Nov 9, 1900

S S Cygni again

R+B.

322.5

11 06 38 51.9 89.4

150.8 75.8

226.6 165.2 - 0.28

330.2 - 0.30

08 08 46.8 76.6

146.9 85.9

232.8 162.5 - 0.33

L+Above Mean = - 0.43

244.3

10 12 314.7 70.4

60.4 76.5

136.9 146.9 - 0.64

239.2 - 0.56

11 26 319.1 79.9

60.9 74.7

135.6 154.6 - 0.49

pos. angle =

Sprocket wheel = -

= -

Nov. 9, 1900.

S Cygni

L + a. I

Ledgered.

244.8

11 14 10 311.2 66.4

66.5 67.1

133.6 133.5 − 0.91

243.8 − 0.90

16 00 311.~~5~~ 7 67.9

65.2 66.0

131.2 133.9 − 0.90

Mean = − 0.75

R & B.

151.9

18 00 224.8 72.9

330.7 76.7

47.4 149.6 − 0.58

150.8 − 0.60

11 19 26 227.0 76.2

27 36 332.4 71.7

11 16 54 44.1 147.9 − 0.62

5 - 3 53

6 13 01 Gr. M.T.

5383.6757

Posted

Nov. 9, 1900.

SS Cygni.

II

R + B
153.5
11 20 40 226.3 — 70.8*
329.8 — 78.0*
47.8 — 148.8* − 0.60*

− 0.60*

149.4
22 08 227.5 — 78.1*
333.8 — 70.3*
44.1 — 148.4* − 061*

Mean = 068*

L + A
65.3
24 00 134.3 — 69.0*
264.1 — 67.2*
371.3 — 136.2* − 0.85*

− 0.76*

61.7
11 25 35 134.4 — 72.7*
242.2 — 71.9*
12 23
11 23 06* 314.1 — 144.6* − 0.68*
5 − 3 53
16 19 13* G.M.T.
5333.6800

Pos. angle = 233.5

S procket wheel: − 8.5

" " = − 3.5

Nov. 10, 1900 (Saturday)

B 394 — B&E 1182

7 06 0.0 — 7 09 10.5

7 07 0.0 — 7 10 10.5

Phot. F. — W 6h.

Eros.

25 52 +53 8

22 47

3 05

8 55

1 56 8.6	+54 13.9
−29.	−5.5
~~1 55 39.~~	~~+54 8.4~~
1 55 40	
−2 3.	−0.7
1 53 37.	+54 7.7
1 53 36.	13.1
+1.	~~54~~ −5.4

Object which is probably Eros follows

7 35 DM +54° 446 (9.5) 3 secs. & 3′.5 South of it

Comp star = DM +54° 452 (8.5)

Nov. 10, 1900

Error with 8.5

R & a.

165.2 (comp + dis. Ledgered

7 56.0 214.3 49.1″

368.9 40.3″

29.2 89.4″ + 1.93″

170.7 + 1.98″

209.2 38.5″

344.8 47.4″

32.2 85.9″ + 2.03″

L & Below Mean = + 2.06″

75.5

118.6 43.1″

260.0 37.9″

297.9 81.0″ + 2.17″

79.1 + 2.14″

8 03.5 117.3 38.2″

119.5″ 257.1 45.1″

7 59.8″ 302.2 83.3″ + 2.10″

5 - 3.2

12 56.6″ Gr. M. Time.

5334.540

Nov. 10, 1900

Eros again.

L & Below

77.7
8 06.2 120.3 42.6″
266.6 36.2″
296.8 78.8″ + 2.23″

80.6 + 2.23″
117.3 36.7″
257.9 42.2″
300.1 78.9″ + 2.23″

R & Above Mean = + 2.12″
347.0
31.1 44.1″
168.1 42.9″
211.0 87.0″ + 2.00″

347.7 2.02″
8 14.8 30.4 42.7″
8 10.5 168.4 42.4″
5 – 3.3 210.8 85.1″ + 2.05″
13 7.34 m.T.
5 33 40.5 47″ Final Mean = + 2.09″

8 36 Eros precede the above 9.5 by 1.8 secs. and is about 5.5′ South. Hence the object measured above was Eros. alt. very high

Nov. 10, 1900.

Phot J. R Ursae Minoris W 6 b

16 36 +72.9

24 04

7 30

Plotted.

Ledgered

Above

246.0 < comp + dis.

8 44.0 311.6 65.6*

67.6 63.0*

130.6 128.6* +1.01*

247.3 +1.00*

310.9 63.6*

66.3 66.2*

132.5 129.8* +0.98*

Below

Mean = + 0.85*

152.3

225.2 72.9*

334.8 68.7*

43.5 141.6* +0.74*

0.70*

152.9

8 51.0 224.1 71.2*

95.0* 331.4 75.0*

8 47.5

5 -3.2 46.4 146.2* +0.65*

13 44.3' Gr. M. Time

5334.572

Nov. 10, 1900

R Urs. Min. Again

Below
154.2
8 53.0 225.2 71.0x
334.0 70.2
44.2 141.2x +0.75x

+0.70x

155.0
224.6 69.6x
329.7 76.4x
461. 146.0x +0.65x

above Mean = +0.85x
68.1
130.6 62.5x
246.9 63.5x
310.4 126.0x + 1.06x

66.1 +1.00x
9 01.4 131.8 65.7x
8 57.2 245.5 66.0x
5-3.2 311.5 131.7x +0.94x
13 54.0 G.M.T. Position angle = 136.8
5334.579x Sprocket Wheel = -5.5
" = -4.6
Final Mean = +0.85

Nov. 10, 1900

Phot W o Ceti. W Obs.

2 12 -3.6
0 52
1. 20
10 44

Plotted.
Ledgered

Right.
177.3 (was dis
9 27.0 209.9 32.6×
356.5 33.3×
29.8 65.9× -2.65×

175.4 -2.62×
209.1 33.7×
356.1 33.5×
29.6 67.2× - 2.60×
~~Left~~ Mean = -2.63×
87.4
118.6 31.2×
265.3 33.6×
298.9 64.8× - 2.68×

85.3 -2.64×
9 34.0 118.8 33.5×
265.9 33.4×
9 30.5± 299.3 66.9× -2.61×
5- 3.2
14 27.3± Gr. M.T.
5334.602±

Nov. 10, 1900.

Phot. W   O Ceti.

Left

85.0

9 36.0   118.7   33.7^{x}

265.3   33.3^{x}

298.6   67.0^{x} − 2.61^{x}

85.6

118.9   −2.62

265.6   33.3^{x}

298.8.   33.2^{x}

66.5 −2.62

Mean = −2.63^{x}

Right

355.7

29.6   33.9^{x}

175.0   33.5^{x}

208.5   67.4^{x} − 2.59^{x}

= 2.64^{x}

355.8

9 41.5   27.5   31.7^{x}

775   175.0   32.9^{x}

9 38.8   207.9   64.6^{x} − 2.69^{x}

5 − 3.2

14 35.6 G.M.T.

Final mean = .263

5334.608^{x}

Nov. 10, 1900

Phot K   0 Ceto

~~Plotted~~ -
Ledgered

Right

350.9
9 51.8   23.4   32.5″
169.4   37.6″
207.0   70.1″ − 2.50″

350.9   2.62″
23.2   32.3″
171.4   30.9″
202.3   63.2″ − 2.74″

~~Left~~   Mean = − 2.61″

80.1
113.7   33.6″
260.2   33.7″
293.9   67.3″ − 2.60″

80.0   − 2.60″
10 00.0   113.8   33.8″
11.8   260.1   33.3″
9 55.9   293.4   67.1″ − 2.60″
5 − 3.2
14 52.7 Gr. M. T.
5334.620

Nov. 10, 1900

Phot. R. o Ceti

Left

79.6
10 01.6 113.7 34.1 x
~~248.9~~ 259.2 34.6 x
293.8 68.7 x — 2.55 x

79.8 — 2,56 x
114.4 34.6 x
259.8 34.2 x
294.0 68.8 x — 2.56 x
Right. Mean = — 2.55 x
350.5
23.7 33.2 x
170.3 33.5 x
203.8 66.7 x — 2.62 x

349.8 — 2.62 x
10 11.0 23.6 33.8 x
10 06.3 x 170.9 32.5 x
5 — 3.2 203.4 66.3 x — 2.63 x
15 03.1 Gr. M. Time Final mean = — 2.60 x
5334.627 x

Nov. 10, 1900.

S.S. Cygni

Phot T. W Ob.

2, 1 36 + 42.5

2. 5 50

4, 16

abandoned for present

Phot T. + X Cygni W Ob.

19 45 + 32.6

25 50

6 05

Lt above Plotted

83.6 < comp + dia. Ledgered

10 34.0 116.2 32.6

265.0 29.9

294.9 62.5 + 277

84.4 + 277

116.2 29.8

261.8 32.7

294.5 62.5 + 277

R + B mean = + 2.69

352.9

25.6 32.7

173.6 33.2 + 2.65

206.8 65.9

351.1 + 2 61

36.2

10 44.0 27.3 31.8

10 39.0 173.2 68.0 + 257

5 − 3.2 2050

15 35.8 Gr. m. Time.

5334650

Nov. 10, 1900

x Aqui. Again

R & Below
357.7
10 47.0 26.3 34.6"
172.3 35.1"
207.4 69.7" + 2.52"

352.0 + 2.56"
26.6 33.6"
172.3 34.0"
206.3 ~~67.6"~~ + 2.59"

L & Above Mean = + 2.62"
263.8
295.8 32.0"
83.1 33.1"
116.2 65.1" + 2.67"

+ 2.68"
262.9
10 55.0 294.8 31.9"
10 51.0" 82.5 33.0"
5- 3.2 115.5 64.9" + 2.68"
15 47.8 4x M. Time Final Mean = + 2.66"
5 3 34.658 α
Pos Angle = 200.6
Sprocket Wheel = - 3.5
" = - 2.5

Nov 10, 1900
X Cygni, cont.
Region rather low, some moonlight
obs. a little difficult
Phot T. S.S. Cygni W. Ob.

2.1 34 + 42.5
26 38
5 4

Left
65.4 (var dim. Ledgered
11 09 50 131.4 66.0*
241.9 72.7*
314.6 138.7* −0.80*
61.4
11 11 55 134.7 73.3* −0.78*
244.9 67.2*
312.1 140.5* −0.76*

Right Mean = −0.67*
332.0
11 14 30 45.7 73.7*
150.0 78.6*
228.6 152.3* −0.53*

330.3 −0.56*
11 16 15 47.2 76.9*
52 30 154.1 73.0*
11 13 08 227.1 149.9* −0.58*
5 − 3 − 10
16 9 58 G.M. Time.
5334.6736*

Nov. 10, 1900 Posted to here.

Same again

Right
331.0
11 18 00 45.2 74.2
148.8 80.3
229.1 154.5 -0.49

326.6 -0.56
11 19 23 48.0 81.4
153.7 72.5
226.2 153.9 -0.58

~~Left~~
245.7 Mean = -0.65
11 21 30 311.9 66.2
64.2 69.4
133.6 135.6 -0.86

243.1 -0.80
11 23 15 315.0 71.9
~~8 3 08~~ 64.3 69.6
11 20 47 133.9 141.5 -0.74
5 - 3 10 Final Mean = -0.66
~~16 17 37~~ ½ m. Time Pos Ang. = 233.7
5334.6789 Spr. Wheel = -4.5
= -35

Nov. 12, 1900 (Monday)

B 394	B & C 1182
7 00 0.0	7 02 19.5
7 01 0.0	7 03 19.5

Eros

Phot T. 25 52 + 53.8 W Obs.
22 56
2 56
9 04

there is a star preceding DM+54°
438 (9.0) by 2m 20.5 secs and is 1.5' north of it.
Magn. 10.5

7 39 Eros precedes DM+54° 431 (9.0) by 21 sec. & 4.5' N. of it.
7 40 Eros follows a faint star 5.5s.

Comp star = DM+54° 438 (9.0)

Nov. 12, 1900

Eros with 9.0

Left Ledgered

70.1 < comp * dis.

7 59.0 128.2 58.1

252.7 51.7

304.4 109.8 + 1.42

72.0

126.1 54.1

249.6 57.7

307.3 111.8 + 1.38

+ 1.40

Right

Mean = 1.28

339.1

37.8 58.7

159.0 61.2

220.2 119.9 + 1.19

+ 1.17

338.2

8 06.6 42.0 63.8

1256 159.6 58.0

8 02.8 217.6 121.8 + 1.15

5-2.3

13 0.5 Gr. M.T.

5336.542*

Nov. 12, 1900.

Eros with 90 Again

Right
340.1
8 08.4 37.1 57.0
157.5 64.3
221.8 121.3 + 1.16

336.7 + 1.14
41.8 65.1
160.5 57.6
218.1 122.7 + 1.13

Mean = + 1.24

Left
252.7
306.5 53.8
69.5 57.2
126.7 111.0 + 1.39

250.0 + 1.35
8 16.4 308.3 58.3
8 12.4 69.6 56.6
5 -2.3
126.2 114.9 + 1.31 Final Mt 1.26
13 10.1½ m.t.
5 33 6.519

Eros now follows faint star

8 24 above mentioned by 2 secs.

Eros now precedes a Persei DM+38°

8 26 431 (9.0) by 24.5 ~~secs~~. & is 5.'0 South of it

Nov. 12, 1900

R Ceti m Ob

2~~8~~ 26 +1.6

0 16

2 8

9 52

Selection of 12th magn. Standards.

Hagen No 18

" " 15

" " 17

9 10 " " 20

" " 14

Comp * = No 4

An alternative for 14 or 20 = No 12.

U Cephei.

0 50 +81.1

1 05

0 15

See next page

Nov. 12, 1900.

Maffei I

Left + B
318.6 < var dis   Ledgered.
9 32 47 62.2   103.6×
141.1   94.5×
235.6   198.1
161.9× +0.34×

323.0
34 46 56.7   93.7×   +0.32×
138.8   101.4×
240.2   195.1×
164.9× +0.29×

Right + a   Mean = +0.20×
229.1
37 04 328.2   99.1×
55.1   88.5×
143.6   187.6× + 0.14×
172.4×

235.7   +0.07×
39 03 319.5   83.8×
51.8   96.0×
23 40 147.8   179.8× +0.00×
9 35 55
s = 2 20
14 33 35× Gr. M. Time
5336.6066×   0.1368 = Hartwig.
5336.3112
+ 0.295 < Uniform

Nov. 12, 1900.

II

Right & a

231.1

9 40 41 324.4 93.3x

~~13~~ 55.8 87.6x

143.4 180.9x

179.1x +0.02x

~~235.8~~

42 17 318.7 82.9x -0.04x

53.9 92.3x

146.2. 175.2x -0.09x

Left & B Mean = +0.03x

136.2

44 42 238.0 101.8x

326.4 86.3x

52.7 188.1x

171.9x +0.15x

143.8

9 46 42 233.6 89.8x ~~+0.10~~

14 2 2 322.7 93.5x

9 43 36x 56.2 183.3x +0.06x

5 -2 20 176.7x

14 41 16 G. M. Time.

5336.6120 + 0.1422 Hartwig

5336.3112

+0.3008 Uniform.

Nov 12, 1900

Left DB. III

140.9
9 49 25 236.8 95.9×
324.7 86.6×
51.3 182.5×
177.5× +0.05×

145.1
5 1 21 233.2 88.1× +0.05×
322.0 94.5×
56.5 182.6×
177.4× +0.05×

Rt DB.
53.7 Mean = −0.12
53 49 144.0 90.3×
239.3 80.8×
320.1 171.1× −0.17×

−0.28×

61.3
9 56 15 139.1 77.8×
2 10 50 23~~7~~6.8 82.4×
9 52 42 319.2 160.2× −0.38×
5 2 20
14 50 22 Gr. M. Time.
5336.6183+
5336.3112
+0.3071 Uniform

0.1485 Hartwig.

Nov. 12, 1900

IV

Right of a

58.3
95817 141.3 83.0 x
239.4 78.5 x
317.9 161.5 x +0.35 x

60.4 −0.40 x
100058 139.5 79.1 x
239.2 76.8 x
316.0 155.9 x −0.46 x

Lt Below
330.9 Mean = −0.35
100400 55.2 84.3 x
147.5 79.6 x
227.1 163.9 x −0.30 x

328.8 −0.30 x
10 06 33 50.8 82.0 x
24948 146.1 82.7 x
19 02 27 x 228.8 164.7 x −0.29 x
5 −2 20
15 00 07 x G. M. Time
5336.6251 x 0.1553 x Hartwig
5336.3112
0.3139 x Uniform

Nov. 12, 1900

Left & Below   V

325.9
10 08 41   52.4   86.2
149.5   79.3
228.8   165.5 — 0.27

330.8   — 0.33
10 10 38   48.5   77.7
147.0   81.9
228.9   159.6 — 0.39

Right & Above   Mean = — 0.52

241.0
10 13 29   314.6   73.6
64.4   68.8
133.2   142.4 — 0.73

245.1
10 15 22   314.5   69.4 — 0.72
48 10   62.8   74.3
10 12 02   137.0   143.7 — 0.70
5 – 2 20
15 09 42   Gr. M. Time   Pos. Angle = 191.3
5336.6317   Sprocket Wheel = – 2.5
5336.3112   = – 1.5
+ 0.3205   Uniform   = – 0.8
+ 0.1619   Hartwig

Nov. 12, 1900.

Phot T. SS Cygni. W Ob.

21 34 +42.5

L&a 26 02

241.8 Lrandhz 28 Ledgered.

9 30 05 315.5 73.7 x Plotted.

60.7 74.9 x

135.6 148.6 − 0.60 x

240.1 − 0.59 x

32 26 317.1 77.0 x

62.7 72.8 x

135.5 149.8 x − 0.58 x

Mean = − 0.48 x

R&B

153.1

35 29 236.5 73.4 x

323.4 88.1 x

51.5 161.5 x − 0.35 x

146.6 − 0.36 x

10 37 20 229.9 83.3 x

15 14 331.0 76.5 x

10 33 48 x 47.5 159.8 x − 0.38 x

5 − 22 0

15 31 28 Gr. M.T.

5336.6468 x

Nov. 12, 1900

Same Again

Rt Below

153.2°

10 39 12 220.1 72.1″

324.9 86.5″

51.4 158.6″ −0.41″

145.5

41 18 230.6 85.1″ −0.38″

330.4 76.3″

46.7 161.4″ −0.35″

Lt

61.6 mean = −0.49″

4 400 133.2 71.6″

239.8 77.0″

316.8 148.6″ −0.60″

−0.60″

60.2

10 45 54 137.5 77.3″

243.7 71.7″

170 ~~84~~ 24 315.84 149.0″ −0.59″

10 42 36 Final mean = −0.48

5 −2 20 Pos Angle = 233.7

15 00 16″ G.M.T. Sprocket Wheel = −4.5 B

5336.6530″ = −3.5 C

Nov. 12, 1900 Posted.

U Cassiop. W 66.

~~0 40 +47.7~~
0 36 +47.3
2 36
2 00

~~Region~~

1105 Stars marked on chart seem to be as well as can be done all things considered

Nov. 13, 1900 (Tuesday)

B 394	BOC 1182
7 10 0.0	7 12 06.5
7 11 0.0	7 13 06.5

Meas of faint comp. star for
Phot T. T. Herculis W Cb.

18 06 +31.3
23 06
5 00

7 27 Cloudy no stars visible in finder

7 33 Clouds thicker
Clouds too thick for comp stars for
7 40 T. Herculis.

Phot R. a Ceti. W Cb.
26 12 -3.6
23 27
2 45
9 15

Nov. 13, 1900.

Phot T. 55 Aqui WCB.

21 36 + 42.5
23 54
2 20

8 18 cloudy in this region.

8 30 All cloudy
8 45 all cloudy
9 00 clouds thick.

9:30 cloudy 21 36 + 42.5
25 18
3 44

9.40 cloudy

see next page

Nov. 13 1900

SS Cygni.

L+Afore

241.8 { var dis
clouds

10 30 Sky thickly cloudy no chance to obtain anything.

Nov 14 1900 (Wednesday)

B394	B & C 1182
7 03 0.0	7 06 04.8
7 04 0.0	7 07 04.7

Eros N 60

25 52 + 53.8

23 1 2

2 4 0

9. 20

Eros follows DM +53° 417 (9.5) by 2.5 secs

7 41 9 is 8'.9 North of it.

7 42 Eros follows a faint star 2.0 secs.

Comp ✶ = DM +53° 420 (8.5)

see next page

Nov. 14, 1900

Eros with. 8.5

Above

340.7 < comp + dis. Ledgerwood

7 53.0 37.7 57.0^{x}

160.9 54.9^{x}

215.8 111.9^{x} + 1.37^{x}

339.5 + 1.37^{x}

37.2 57.7^{x}

162.2 54.2^{x}

216.4 111.9^{x} + 1.37^{x}

Mean = + 1.44^{x}

Below

253.1

303.6 50.5^{x}

~~69~~ 71.7 53.9^{x}

125.6 104.4^{x} + 1.55^{x}

251.2 + 1.52^{x}

8 01.6 306.7 55.5^{x}

7 57.3ˣ 73.2 51.0^{x}

5 -3.1 124.2 106.5^{x} + 1.50^{x}

12 54.2^{x} Gr M Time

8

5337 537

Nov. 14, 1900

Eros with (9.5)

Below
252.6
8 04.4 303.7 51.1
~~1~~69.7 53.1
122.8 104.2 + 1.55

252.8 +1.56
300.7 52.9
72.4 51.2
123.6 104.1 +1.56
Above
161.2 Mean = + 1.43
217.1 55.9
339.1 59.1
38.2 115.0 + 1.30

160.0 + 130
8 11.4 218.7 58.7
158 340.2 56.9
8 79 ~~35.9~~ 115.6 + 1.29
5 -3.1 37.1
13 4.8 G.M. Time. Final Mean = +1.44
8 22 Eros now follows DM+53°417 (9.5)
8
5 33.7 5 45 by 20.8 secs and is 8.5 North of it.
Eros now precedes a faint star 2.8 secs.

Nov. 14, 1900

Reexamination of 12th magn. Stars for R Ceti. W 6b.

2 24 +1.6
0 24

2 00
10 00

Hagen 15 }
" 18 } all right
" 17 }
"

" 19 a little brighter than 20 and could be substituted for it

8 55 " 12 a little fainter than 14 and could be substituted for it, but all things considered probably it is best to retain 14 and 20.

Comp * = No. 4.

Reexamination of 12th magn. Stars near U Arietis W 6b.

2 58 +12.6
0 48

2 10

Hagen 19
9 33 " 22
" 21 C.S = No. ~~12~~ 5.
" 17
" 23

Nov. 14, 1900

Reexamination of 12th Magn. ~~Planet~~ near V Tauri. W 6b.

4 43 + 18.6
1 28
3 15
8 45

No. 21
" 25
1004 " 27 C.S. = No 3
" 17
" 18

Phot W o Ceti 7W 6b
2 12 − 36
2 00
0 12
11 48

see next page

Nov. 14, 1900

phot W 0 cts: W Ob.

~~Left~~ Plotted
Ledgered

84.1
10 21.0 119.0 34.9ˣ
263.9 34.6ˣ ˣ
298.5 69.5ˣ – 25.2

– 252

83.9
119.2 35.3ˣ
264.7 34.0
298.7 69.3 – 253

Right. Mean = – 252

354.3 ˣ
28.8 34.5
173.2 35.5ˣ
208.7 70.0ˣ – 251ˣ

353.4 – 25.2ˣ

10 29.8 28.5 35.1ˣ
10 25.4ˣ 174.3 34.0ˣ
5 – 3.0 208.3 69.1⁺ – 254⁺

15 22.4⁺ Gr. M. Time
533~~7~~8.640ˣ

Nov. 14, 1900.

Photom. o Ceti again.

	Right	
	354.0	
10 22.0	28.4	34.4
	173.8	34.9
	208.7	69.3 − 25.3
	353.4	− 25.0
	28.8	30.4
	173.4	35.5
	208.9	70.9 − 24.8
		Mean = −24.8
	Left	
	263.6	
	298.6	35.0
	82.9	36.1
	119.0	71.1 − 24.7
	263.0	−24.7
10 40.0	299.0	36.0
10 36.0	83.3	35.2
5 − 3.0	118.8	71.2 − 24.7
15 33.0	G. M. Time	
5338.648		Final Mean = −25.0

Nov. 14 1900

SS Cygni

Phot T. 2134 + 425 W Gr

26.34
500

Left & Above

2416 < van dis.

10 53.00 318.3 76.7 x Plotted
59.6 78.5 x Ledgered
138.1 155.2 x - 0.47 x

239.5 -0.46 x
10 57 05 318.2 78.7 x
59.3 77.3 x
136.6 156.0 x -0.46 x

R & Below

150.0 mean = -0.36 x
11 00 10 230.8 80.8 x
325.0 86.6 x
51.6 167.4 x -0.24 x

1469 -0.26 x
11. 02 45 2393 86.4 x
235 00 3294 78.5 x
10 58 45 479 164.9 x - 0.29 x
5 - 3 01
15 55 44 Gr M Time
5337 6637 x

Nov. 14, 1900

β Cygni. Again

RHB
148.4
11 04 23 230.6 82.2
326.5 85.8
52.3 168.0 — 0.23

147.9 — 0.26
07 37 233.5 85.6
328.3 79.7
48.0 165.3 — 0.28
LOA
57.6 Mean = -0.36
10 23 138.1 80.5
243.1 75.1
318.2 155.6 — 0.47

~~62.9~~ 60.0 — 0.46
~~11 13 42~~ ~~135.9~~ 138.9 75.9
11 16 12 ~~243.2~~ 237.9 80.0
317.9 155.9 — 0.46

38 35 Final Mean = -0.36
11 09 39 Pos Angle = 234.3
5 - 3 01 Sprocket Wheel = -4.5 B
16 06 38 Gr. M. Time. " " = - 3.5 C
5 33 8 67 12

(over)

Nov 14/1900

B 394	B & C 1182
11 27 0.0	11 30 0.0
11 28 0.0	11 31 0.0
B 394	B & C 1182
18 02 0.0	18 04 56.8
18 03 0.0	18 05 56.9

Nov. 15. 1900. (Thursday)

7 25 Clearer.
Eros. Phot. T. Fr. obs.

+53 417 1 45 19.1 +53 44.6
+25. +8.9
1 45 44. +53 53.5
−1 54. −6.0
1 43 50. +53 47.5 Eros.
+53 409 (9.5) 1 44 4. +53 40.6
−14. +6.9

~~20 5 2 +5~~
25 45 +53 3.5
23 65
2 00
10 00

8 06 Eros precedes DM+53° 409 (9.5) by 15.5 secs
6.8 north of it

8 07 Eros follows faint star 4.3 secs

see next page

Comp star = DM+53° 420 (8.5)

Nov. 1~~8~~5, 1900

Eros with (8.5)

	Left		Ledgered
	68.0 < comp + dis		
8 22.5	126.7	58.7	
	254.7	51.5	
	306.2	110.2	+ 141
	71.7		+ 1.42
	125.6	53.9	
	251.6	56.2	
	307.8	110.1	+ 142
	Right		Mean = + 1.33
	340.8		
	40.2	59.4	
	159.4	57.7	
	217.1	117.1	+ 1.26
	342.4		+ 1.24
8 30.0	38.8	56.4	
8 26.2	156.8	62.0	
5 - 2.9	218.8	118.4	+ 1.23

13 23.3 Gr. M. Time

533/.558

Nov. 15, 1906

Eros again

Clouds

Right

338.8

8 33.2 40.4 61.6 ×

159.3 59.1 ×

216.4 118.7 × + 122 ×

340.3 + 1.20 ×

39.2 clouds 58.9 ×

159.1 61.1 ×

220.2 120.0 × + 119 ×

Left mean = + 1.3~~4~~

252.8

307.3 54.5 ×

71.6 54.5 ×

126.1 109.0 × + 1.44 ×

251.6 + 1.62 ×

8 42.6 305.2 53.6 × Final m = + 1.32 ×

75.8 69.4 57.0 ×

8 37.9 120.4 110.6 × + 1.40 ×

5 - 2.9

Alt. very high making obs. somewhat difficult.

13 30.0 M.T.

8 55.5 Eros now precedes DM +53 409 (9.5) by 9.2 secs

533.7 566 & 6.6 north of it

8 56 Eros follows faint star now 0.7 secs

Troubled somewhat in above meas of Eros by slight cloud.

Nov. 15, 1900.

Selection of ~~Comp Stars for Stand~~
~~near V Aurigae~~

Re-exam of Region near
V Tauri W Ob.
4 63 +18.6
1 08
3 35
8 29

Hagen 25
" 27
9 47 " 17 Comp ⁎ = No 3
" 21
" 18

V Aurigae W Ob.
12th magn ~~Stand~~ -
6 07 +46.5
1 43
4 24
7 36

Preliminary selection of the 12th
10 08 magn. ~~Stand~~ for V. Aurigae

Nov. 15, 1900.

S Orionis

5 21 51 − 4 48.7
− 1 00 + 20.5

5 20 51 + 4 48.2

5 21 − 4.8 W Ob.
2 01
3 20
8 40

5 22 − 4.3
2 08
3 14
8 46

Prel. Selection of 12th mag. Standards for S Orionis W Ob.

Hagen 34
10 25 " 36
" 40 Comp ✱ = 20

Nov. 15, 1900

SS Cygni Phot T.
W.Ch

21, 36 + 43.1
26 36
5 00

L & a..

241.1 var dis. Plotted.
10 52 50 314.6 75.5 Ledgend
55.3 ~~84.3~~
139.6 159.8 − 0.38

237.5 − 0.40
55 29 318.8 81.3
59.5 76.1
135.6 157.4 − 0.43

K & B. Mean = 0.27

148.0
58 56 230.6 82.6
323.2 90.2
53.4 172.8 − 0.14

144.2 − 0.14
11 01 26 234.2 90.0
228 41 327.4 83.1
10 57 10 59.5 173.1 − 0.13
5 -2 52
15 54 18 Gr. M. Time- 5338.6627

Nov. 15, 1900.

Same Again

R & B
148.5
231.3   82.8
11 04 00 322.2   90.6
52.8   173.4 − 0.13

145.9   0.14
06 30 233.8   87.9
326.4   84.8
51.2   172.7 − 0.14

L & A   Mean = − 0.26
59.0
09 15 135.7   76.7
237.0   83.1
320.1   159.8 − 0.38

57.5   − 0.39
11 11 15 139.8   82.3
~~30 00~~ 241.2   76.8
31 00 318.0   159.1 − 0.40
11 07 45
5 − 2 52   Pos. Angle = − 226.3   Final M = − 0.26
16 04 53 G.M.T.   Spir. Wheel = 45
5 339.6700   − 35

Posted to Here

Nov. 15, 1906.

B 394	B&C 1182
11 23 0.0	11 25 57.5
11 24 0.0	11 26 57.5
B 394	B&C 1182
16 07 0.0	16 09 52.5
16 08 0.0	16 10 52.5

Nov. 16 1900 (Friday)

B 394 — B8 C1182
7 06 0.0 — 7 08 49.3
7 07 0.0 — 7 09 49.2

Meas of Faint Comp Stars for
T Herculis Phot T. W 6b
18 06 +31.3
23 12
5 06

Above Comp Star = Star m
270.3 Star t with m
7 45.0 289.8 19.5
91.4 18.9
40.3 38.4 + 3.86
269.7
288.6 18.9 +4.10
95.2 12.0
107.2 30.9 +4.34
Below Mean = +3.92
177.0
190.2 12.7
358.4 22.7
21.1 35.4 +4.04
178.1
7 54.4 201.3 +3.74
23.2
99.4 357.9 23.3
7 49.7
5 - 2.8 21.2 46.5 +3.43
1246.9 Gr. M. Time 5340.533

Nov. 16, 1900 –

Star S with m

Below
173.8
7 57.8 204.3 30.5"
356.1 26.0"
22.1 56.5" + 3.00"

174.9 + 3.04"
~~1~~203.5 28.6"
356.5 26.3"
22.8 54.9" + 3.07"

Above Mean = + 3.12"
85.8
110.8 25.0"
265.4 25.5"
290.9 50.5" + 3.04"

86.5 + 3.21"
8 07.6 110.4 23.9"
8 02.7 267.6 23.7"
5 - 2.8 291.3 47.6" + 3.38"
12 59.9 M.T.
5340.542"

Nov. 16, 1900

Star z with m

Above
262.t
8 15.0 294.6 — 31.6″
81.8 — 32.8
114.6 — 64.4″ + 2.70″

263.9 — +2.68″
296.1 — 32.2″
81.9 — 33.4″
115.3 — 66.6″ + 2.66″
Below — Mean = +2.52″
172.0
208.2 — 36.2″
354.4 — 32.8″
24.2 — 69.0″ + 2.54″

170.3 — +2.37″
8 21.8 209.0 — 38.7″
8 18.4 347.8 — 41.2″
5 − 2.8 29.0 — 79.9″ + 2.20″
13 15.6ˢ Gr. M. Time
6340.553ᵈ

Nov. 16, 1900.

Plate q with m

Below
167.8
8 25.2 209.8 42.0
343.8 51.2
35.0 93.2 + 1.83

+ 1.84
165.2
213.3 48.1
346.8 44.0
30.8 92.1 + 1.86
Above Mean = + 1.94
75.9
121.2 45.3
257.9 43.0
300.9 88.3 + 1.96

+ 2.04
8 31.8 78.9
120.0 41.1
57.0
8 28.5 258.9 41.1
5 2.8 300.0 82.2 + 2.13
13 25.7 Gr. M. Time.
5340.560

Nov. 16, 1900

Star p with m

Above

70.7
8 37.5 127.4 56.7″
252.3 49.2″
301.5 105.9″ + 1.51″

71.1 + 1.50″
127.8 56.7″
254.6 49.7″
304.3 106.4″ + 1.50″

Below Mean = + 1.31″

337.9
38.3 60.4″
156.3 62.5″
218.8 122.9″ + 1.13″

+ 1.12″

335.9
8 44.2 40.0 64.1″
81.7 158.3 59.4″
8 40.8ˢ 217.7 123.5″ + 1.12″
5 - 2.8
13 38.0ˢ Gr. M. Time.
53 80.568ᵈ

Nov. 16, 1900.

Final selection 12th mag. Stars
~~Re~~ ~~sequence~~ of ~~Region~~ near (W Ob.)
V Tauri

4 43 +18.6
1 03
3 40
8 20

Hagen 25
" 27
9 40 " 30 Comp + 2 No 5 —
" 24
" 22

V Aurigae W Ob
6 07 +46.5
1 37
4 30
7 30

9 55 Final Selection of 12 ~~th~~ mag. Star map

S Orionis W Ob.
5 22 -4.3
1 52
3 30
8 30

Nov. 16, 1900

5 21 ~~4 0~~ - 5.1
2 01
3 20
8 40

Provisional Selection of 12th Mag.

Hagen 34
" 37
10:13 " 35 Hagen No 20 = e S.
" 36
" 40

Phot W l Ceti W Ob.
2 12 - 3.6
2 12
0 00

(over)

Nov. 16, 1900

Phot W   o Ceti.   W Ob.

Right.

168.5   Plotted.

10 23.0   205.8   37.3   Ledgered

349.1   36.5

25.6   73.8 − 2.38

168.8   −2.44

204.1   35.3

348.2   35.3

23.5   70.6   −2.49

Mean = −2.44

Left

78.3

113.8   35.5

257.2   36.3

293.5   71.8   −2.45

77.9   −2.44

10 29.0   114.1   36.2

10 26.0   257.6   36.1

5 − 2.8   293.7   72.3   −2.43

15 23.2 Greenw Time.

5340.641

Nov. 16, 1900

Same Again

Left

78.3

10 31.0 114.1 35.8"

257.9 35.2"

293.1 71.0" − 2.47"

78.9 − 2.48"

113.7 34.8"

258.2 35.3"

299.5 70.1" − 2.50"

Mean = −2.43"

Right

347.9

24.5 36.6"

166.4 38.4"

204.8 73.0" − 2.36"

347.5 − 2.38"

10 36.6 24.0 36.5"

7.6 167.9 36.1

10 33.8 204.0 72.6" − 2.42

5 − 2.8

15 31.0 Gr Mn time

5340.647

Final Mean − 2.44

Nov. 16, 1900

Phot T. · P.S. Cygni W 66

21 34 +42.5
26 34
5 00

L & A Plotted.
60.2 ‹ var diz Ledgerd.
10 48 25 136.1 75.9
235.6 86.3
321.9 162.2 −0.34

56.0 −0.30
50 25 143.1 87.1
240.15 78.4
318.8 165.5 −0.27
R & B mean = −0.14
3265
53 45 50.7 84.2
140.9 95.3
236.2 179.5 −0.01

320.5 +0.02
10 55 35 58.1 97.6
208 10 145.8 85.9
6 52 02 231.7 183.5 +0.06
5 −2 49 176.5
15 49 13 G. M. Time
5340.6591

Nov. 16, 1900. Posted.
Same again.

R+B

325.8
10 57 00 52.2 86.4*
144.2 91.4*
235.6 177.8* — 0.04*

320.5 = 0.04*
10 59.10 53.4 92.9*
147.7 84.9*
232.6 177.8* — 0.04*

L+A. Mean = −0.18*
242.0
11 01 35 316.7 74.7*
56.8 85.6*
142.4 160.3* — 0.38

235.8 — 0.31
11 03 25 323.2 87.4* *
241 10 57.9 79.8*
11 00 18* 137.7 167.2* — 0.24
5 − 2 49 mean = −0.16*
15 57 29* Gr. M. Time Pos. Ang. = 226.6
5340.6650* Spec. wheel = − 4.5
= −35

Nov. 20, 1900 (Tuesday)

B&C wound & reset

B&C 1182	B 394
21 16 04.5	21 16 00
21 17 04.5	21 17 00

Nov. 21, 1900 (Wednesday)

B&C 1182	B 394
7 04 09.5	7 04 0.0
7 05 09.5	7 05 00
Phot T	W Obs.

Eros.

25 34 +52.2
23 40
1 54
10 06

7 43 Eros follows faint Star 1.8 secs. 0.′8 South of it.

7 46 Eros preceeds DM+52° 419 (9.5) 33 secs + 0.′2 North of it.

Comp ✶ = DM+52° 426 (8.5)

Over

Nov. 21, 1900

Eros with (8.5)

Above   Ledgered

7 55.0   344.9 < comp+ dis,
341   49.2
161.8   50.8
212.6   100.0   +1.66

346.5   +1.76
327   46.2
164.3   46.3
210.6   92.5   +1.85
Below   Mean = +1.94
260.9
300.7   39.8
76.4   41.7
118.1   81.5   +2.15

259.4   +2.11
8 02.4   300.3   40.9
117.4   75.0   43.3
7 58.7   118.3   84.2   +2.07
5-02
12 58.5½ M.Time.
5345.540

Nov 21, 1906

Eros Again.

Below

~~260.9~~

~~8 04.4~~ 3~~01.3~~

787.8 Clouds

8 06.6 117.6 clouds

257.6

301.0 clouds

7

1

2

above

Sky clear while first group was being taken Second group stopped by clouds. altitude extremely high Ots. down on his knees on pier and very close to same.

Stopped by clouds.

Phot W o Ceti W 6b

2 12 -3.6

0 42

1 30

10 30

Cloudy over

Nov. 21, 1900

Phot W o Ceti. W Obs

Right Ledgered Plotted

359.3 < var dis

8 43.0 28.9 38.6

169.6 38.7

208.3 77.3 - 2.28

349.4 - 2.25

30.1 40.7

170.0 38.5

208.5 clouds 79.2 - 2.22

Left mean = - 2.25

260.6

298.3 37.7

79.4 40.1

119.5 77.8 - 2.26

260.2 clouds - 2.26

8 55.2 299.4 39.2

8 49.1 80.0 38.6

5 -0.2 11~~0~~8.6 77.8 - 2.26

13 48.9 Gr. M. Time

5345.576

Nov 21, 1900

o Ceti Again

Left
259.2
9 00.0 298.7 39.5"
80.4 38.4"
118.8 77.9" — 2.26"

− 228"
260.1
298.7 38.6"
80.5 38.1"
118.6 76.7" — 229"
Right Mean = − 226"
170.3
208.5 38.2"
348.6 40.5"
29.1 78.7" — 223"

169.0 − 224"
9 07.4 208.9 39.9"
9 03.7 349.8 Clouds 38.6"
5 − 0.2 28.4 78.5" — 224"
14 03.5" G. m. Time Final Mean = − 226"
6340.586" ~~R Ursae Minoris~~
Clouds

Nov. 21, 1900.

S Orionis.   W Ob.

5 28 - 5.0
1 43
3 45
8 15

12th Magn Standards.

Again 34
9 52 " 37
" 35   C.S. = 20
" 36
" 40

Phot T. R Ursae Minoris. W Ob.

16 34 4729
26 19
9 45

see next page

Nov. 21, 1900

Phot T. R Ursae Minoris N. Obs.

Above

69.3 < comp & dis   Plotted

10 15.2 132.8   63.5^d Ledgered

247.9   60.8^d

308.7   124.3^d + 1.10^d

66.0

131.7   65.7^d +1.08^d

247.3   60.8^d

308.1   126.5^d +1.05^d

Below   Mean = +0.99^d

334.5

41.6   67.1^d

154.5   67.7^d

222.2   134.8^d +0.88^d

336.4   +0.90^d

10 23.6 42.6   66.2^d

10 19.4 156.3   67.1^d

5 -0.2 223.4   133.3^d +0.91^d

1~~4~~^{5} 19.2^m Gr. M. Time.

~~0345.597~~^{d}

~~6~~

5345.638^d

Nov. 21, 1900

Same Again

Below
33~~7~~.1
10 26.2 41.2 64.1″
155.3 67.6″
222.9 131.7″ +0.94″

336.5 +0.92″
41.2 64.7″
156.2 69.2″
225.4 133.9″ +0.90″

Above Mean = +0.99″
~~246.8~~ 196.2
~~310.5~~ 258.8 62.6″
~~66.3~~ 184 / 80.5 621
~~131~~ 124.7″ +1.09″

195.8 +1.06″
10 35.0 258.0 62.2″
61.2 18.4 65.2″
10 30.6 79.6 127.4″ +1.03″
5 −0.22 Final Mean = +0.99″
15 30.4 Gr. M Time Pos. Angle = 127.2
5-30.5 = 6.06 Sprocket Wheel = −5.5 B
= −4.7 C

Nov 21, 1900

Phot. T. SS Cygni W C 6.

21 34 ~~+72.9~~ +42.5

27 04

5 30 Ledgered

L+a. Plotted

112.0 Lcomb + div

10 49 30 163.2 51.2

291.7 53.1

344.8 104.3 +155

109.0 +148

51 13 167.4 58.4

292.3 51.5

343.8 109.9 +142

R+B Mean = +158

21.4

54 15 73.5 52.1

204.9 46.9

251.8 99.0 +168

22.7 +168

10 55 52 72.5 49.8

21050 203.3 49.0

10 52 42 252.3 98.8 +169

5 - 0 10

15 50 32 Gr. M. Time.

5340.6600

Posted.

Nov. 21, 1900

Same Again

R & B.
21.3
10 58 12 71.9 — 50.6
204.1 — 49.4
253.5 — 100.0 +1.66

24.1 — +1.69
59 44 72.3 — 48.2
203.2 — 49.4
252.6 — 97.6 +1.72

L & A. — Mean = +1.62
291.9
11 01 35 344.4 — 52.5
112.3 — 51.0
163.3 — 103.5 +1.57

292.0 — +1.56
11 03 04 344.0 — 52.0
242 35 111.7 — 52.3
11 00 39 164.2 — 104.5 +1.55
5 - 0 10 — Final Mean = +1.60
16 00 29 Gr. M. Time — Pos. Angle = 224.6
5340.6670 — Sprocket Wheel = -4.5
" " = -3.5

Nov 22, 1900 (Thursday)

BØC 1182　　　　B 39K
7 07 35.2　　　　7.07 0.0

Eros　　　　W Ok.

25 34　+02.2
23 44
1 50
10 10

Thickly cloudy in this region

7 40 Sky all cloudy no chance for Eros.

Region of Eros of last night examined tonight. The object taken for Eros last night has gone from its position at that time, hence the object taken for Eros last night was Eros as was known at the time. Clouds coming suddenly last night prevented a final checking of Eros after finishing measures. Hence examination of the Region tonight before it became cloudy.

o Ceti　　　　W Ok.

2 12　−3.6
0 18
1 54
10 06

Nov. 22, 1900
o Ceti

8 10 cloudy Too cloudy

Phot T$_1$ U. Cephei W Obs

0 50 +81.1
0 56
0 06

8 40 Clouds thick

8 49 Sky thickly cloudy

0 50 +81.1
1 20
0 30

0 50 +81.1
1 43
0 53

see next page.

Nov. 22, 1900

U Cephei.

I

clouds

~~Left~~

~~2779 < var dis.~~

~~9 29 09 360.9 83.0~~

~~100.1 76.1~~

~~176.2 159.1 –~~

~~2798~~

~~31 ~~49~~ 46 353.1 clouds 73.3~~

~~95.2 85.3~~

~~180.5 158.6 –~~

~~clouds~~

~~Right.~~

~~190.8 clouds~~

~~3740 268.2 77.4~~

Impossible to do anything
9 48 farther on U Cephei.

Phot W Cat W Ob
2 12 – 3.6
2 12
000

9 55 all cloudy everywhere no chance for
anything farther.

Nov. 22, 1900.

BAC 1182	B 394
21 25 51.5	21 25 0.0
21 26 51.6	21 26 0.0

Nov 23, 1906 (Friday)

BθC 1182 — B 39 X
6 50 X 57 — 6 50 00.0
6 51 X 51.7 — 6 51 00.0
Phot F. W Delphini V Cl.
20 31 +17.8
23 21 Ledgend
Abov 2 50
13.8 < comp * dis. I

7 09 10 79.2 65.4
200.4 54.8
255.2 120.2 + 1.1.9
20.2

11 05 74.5 54.3 + 1.19
194.2 66.0
260.2 120.3 + 1.19
Below
281.3 Mean = + 1.02

13 35 356.7 75.4
106.2 62.1
168.3 137.5 + 0.82

285.6 0.86
7 15 28 249.2 63.6
49 18 103.3 70.0
7 12 20 174.3 133.6 +0.90
5 - 0 46
12 11 34 G. M. Time. 5347.5080
5342.8477
+ 4.6603

Nov 23, 1900

II

Below

283.3
7 18 45 353.5 70.2
106.4 59.7
16~~5.6~~ 6.1 129.9 +0.98

286.4 +1.01
20 50 348.7 62.3
106.2 64.1
170.3 126.4 +1.05

Above Mean = +1.13

197.0
2 4 38 257.4 60.4
18.6 58.0
76.6 118.4 +1.23

200.2 +1.20
7 26 34 255.6 55.4
9 0 47 17.2 61.0
7 22 42 78.2 116.4 +1.27
~~7~~5 -0 45
12 21 57 Gr. M. Time.

5347.5153
5342.8477
+4.6676

Nov. 23, 1900

III

Above
199.8
7 30 45 255.7 55.9×
19.8 57.5×
77.3 113.4× +1.34×

200.0 +1.36×
32 56 254.8 56.8×
~~[illegible]~~20.0 56.3×
7~~7~~6.3 111.1 +1.39×
Below
106.2 Mean = +1.21×
36 41 172.3 66.1×
287.0 61.6×
348.6 127.7× +1.03×

107.8 +1.06×
39 15 167.3 59.5×
19 37 285.1 65.2×
3~~4~~50.3 124.7× +1.09×

7 34 54×
5-0 45
12 34 09 Gr. M. Time.
5347.5237×
5342.8477
+4.6760

Nov. 23, 1900

IV

Below

107.5

7 49 014 166.4 58.9x

289.8 55.8x

345.6 114.7x +1.31x

109.6 +1.30x

52 07 166.6 57.0x

289.5 58.0x

~~348.0~~ 347.5 115.0x +1.30x

Above Mean = +1.46

22.4

55 33 72.7 50.3x

202.2 50.5x

252.7 100.8x +1.64x

24.0 +1.62x

7 59 10 73.7 49.7x

216 04 201.1 52.2x

7 54 01x 253.3 101.9x +1.61x

5 - 0 45x

12 53 16 Gr. M. Time.

5347.5370x

5342.8477x

+4.6893x

Nov. 23, 1900

V

B Above

23.6

8 02 15 73.1 49.5

2030 48.2

2515 1.2 97.7 + 1.71

23.8 + 1.72

04 57 72.2 48.4

2024 48.8

25 1.2. 97.2 + 1.73

Below Mean = + 1.59

289.4

07 48 345.0 55.6

110.3 54.3

164.6 109.9 + 1.42

290.8 + 1.46

8 10 53 344.3 53.5

~~25~~ 53 111.4 52.7

8 06. 28 164.1 106.2 + 1.51

5 - 0 45

Pos Angle 336.2

13 05 43 Gr. Mc Tum. Sprocket Wheel = -1.5 a

5347.5456 " = -0.5 B

5342.8477 B & C 1182 B 394

+ 4.6 978 24 45.1 8 24 00.0

8 25 45.0 8 25 00.0

Nov. 23, 1900

R Draconis W Ob.

16 32 +67.0
24 56
8 24

16 26 +67.4
25 06
8 40

9 15 Prov. Selection of 12th Magn Stand for R Draconis

S Cygni. W Ob.

20 8 +57.2
25 42
5 34
L. Po. Pl.

9 28 M 25 var, var 1 N 15 in.

R Ursae Majoris W Ob

10 34 +69.3
1 56
8 38
3 22
L. Po. Pl.

9 45 " 1 var, var 3 W 15 in.

Nov. 23, 1900.

Phot T. χ Cygni W.C.G.

19 45 + 32.6

26 12

6 27

Abandoned

Phot T SS Cygni W.C.G.

21 34 + 42.5

26 16

Left Below 4 42 Plotted

299.4 < comp + dis. Ledgered

9 ~~10~~ 5800 335.1 35.7

118.1 38.6

156.7 74.3 + 2.37

299.0

10 00 05 337.8 38.8 + 2.32

117.7 38.9

156.6 77.7 + 2.26

R of Below

211.2 mean = + 2.43

10 02 05 245.2 34.0

27.8 36.2

64.0 70.2 + 2.50

210.6 + 2.54

10 03 35 244.0 33.4

24 3 45 30.6 34.5

10 00 56 65.1 67.9 + 2.58

5 - 0 45

15 00 11 Gr. M. T. 5347.6251

Nov. 23, 1900

Same Again

R & B.

210.3
10 05 15 245.6 — 35.3″
30.6 — 33.9″
64.5 — 69.2″ +2.58″

210.8 — +2.58
10 07 00 245.4 — 34.6″
30.3 — 33.9″
64.2 — 68.5″ +2.56″

Mean = +2.47″

L & A.

118.0
10 09 20 157.8 — 39.8″
298.0 — 37.8″
335.8 — 77.6″ +2.77″

118.5
10 11 25 156.0 — 37.5″ — +2.2″
33 00 297.3 — 39.5″
10 08 15 336.8 — 77.0″ +2.28″
5-0 45 — Pos. Angle = 226.6
15 07 30 Gr. M.T. Sprocket Wheel = -4.5
53 47.6 302″ — = -3.5

Nov 23, 1900.

Eros. W Obs.

~~1 34 11 +52 39.1~~
~~−12 −2.4~~
~~1 33 59. 52 36.7~~ Eros.
~~−2 40 −13.8~~
~~1 31 19. +52 22.9~~
~~1 30 42. +52 10.2~~
~~+29. +12.7~~

52° 400 (9.0)

See below.

1 34 + 50.0
3 00
1 26

---

1 34 11 +52 39.1
−12 −2.4
1 33 59. +52 36.7 = Eros.
−2 50. −13.8
1 31 9. +52 22.9
−7
1 31 2. +52 22.9
1 30 42 +52 10.2
+20 +12.7

Nov. 23, 1900

Eros continued

Eros follows DM+52° 400 (9.0) by
10 59 14^s.5 secs. & is 12'.5 North of it.

Eros compared photometrically with
a star ~~a little fainter than it~~
of about the same brightness
which is about 2'.6 north of Eros and
in the same R-A as Eros.
Hence ~~the~~ comp. star follows DM+52°
400 (9.0) by 14^s.5 and is about ~~14~~ 15' North of it.

see next page

Nov 23, 1900

Phot W Eros W C B.

Above
1493 < error dis.
1107.0 2257.5 2
326.4
48.7

146.8
227.8
3 .

.

Below

.
1 .
2 . abandoned for
3 . phot R. Images will not
coincide with Phot W

C1 1 .
2 . Over
3 .

Nov, 23, 1900

Phot R Eros W Obs.

Ledgucl

above & Left
317.7 < Eros obs
11 17.4 37.6 79.9″
140.4 70.4″
210.8 150.3″ −0.57″

322.4 −0.54″
30.5 68.1″
134.5 84.9″
219.4 153.0″ 0.52″

Below & Right Mean = −0.51″
225.5
308.5 83.0″
51.2 70.6″
121.8 153.6″ −0.50″

232.4 −0.48″
11 23.0 301.4 69.0″
11 20.2 43.5 87.5″
5 −0.8 131.8 156.5″ −0.45″
16 19.4 Gr. M Time
5347.680^{d}

Nov. 23, 1900

Eros again.

Right & Below

223.1

11 25.0 307.4 84.3"

48.6 72.8"

121.4 157.1" −0.44"

230.7 −0.54"

309.9 70.2"

42.1 76.8"

118.9 147.0" −0.63".

Left & above Mean = −0.50"

132.2

217.5 85.3"

320.0 71.9"

31.9 157.2" −0.43"

140.1

11 31.0 211.8 −0.46"

71.7"

11 28.0 314.6 82.8"

5 −0.8 37.4 154.5" −0.49"

16 27.2 Gr. M. time. Final mean = −0.50"

5 347.685" Object observed above for Eros is Eros; it has to south & preceding a little during observations.

Posted.

Nov. 23, 1900

B&C 1182	B 394
21 40 37.4	21 40 00

Nov 25, 1900 (Sunday)

B&C 1182	B 39 ✓
21 08 51.8	21.08 00
21 09 04.8	21 09 00

Nov. 26, 1900 (Monday)

BAC 1182	B 394
21 05 55.5	21 05 0.0
21 06 55.5	21 06 0.0

Nov 27, 1900 (Tuesday)

B&C 1182	B 394
21 07 51.1	21 07 0.0
21 08 51.1	21 08 0.0

Nov. 28, 1900 (Wednesday)

B & C 1182 B 394
7 03 49.6 7 03 00.0
7 04 49.6 7 04 00

18 06 + 31.3
24 06
6 00

Phot. W. o Ceti. W Obs.
1
2 12 − 3.6
8 22
R & Above 1 50
10 10

Ledgered
Plotted.

7 45.0 160.5
203.4 42.9
342.1 38.4
28.5 81.3 − 2.16
163.8 − 2.16
200.9 37.1
338.8 44.3
23.5 81.4 − 2.15 Mean = − 2.14
L & B.
69.6
113.4 43.8
251.3 38.7
290.0 82.5 − 2.12
42.1
7 52.0 110.6 38.5 − 2.12
7 48.5 248.7 44.4
5 − 0.8 293.1 82.9 − 2.11
12 477 4 = m.t. 5352.533

Nov. 28, 1900

Same again.

L & B

69.9
7 54.2 114.6 44.7"
251.1 39.5"
290.6 84.2" – 2.07"

71.5 – 2.06"
112.0 40.7"
269.2 44.0"
293.2 84.7" – 2.06"

R & Above Mean = 2.06

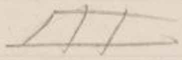
338.5
22.9 44.4"
160.0 40.9"
200.9 85.3" – 2.04"

339.8 – 2.07"
8 00.0 20.9 41.1
7 57.1 160.9 42.1"
5 – 0.8 203.0 83.2" – 2.10"
12 563 Gr m T.
5352.539

Nov. 28, 1900

Same Again

R & a.



338.7
8 06.6 23.1 44.4'
159.8 42.3'
202.1 86.7' — 2.00"

339.7 — 2.02"
21.4 41.7'
159.5 43.7'
203.2 85.4' — 2.04"

L & B Mean = -2.02"
249.4
293.0 43.6'
70.4 41.4'
111.8 85.0' — 2.05"

250.1 42.6' — 2.02"
8 15.0 292.7 44.2'
21.6 68.7 86.8'
8 10.8 112.9 — 2.00"
5 - 0.8
13 10.0 G. M. T. Final Mean = -2.07"
535 2,549' Troubled somewhat by moonlight & cloud.

Nov 28, 1900

Phot T. W Delphini W 66

20 31 +17.8
25 11
4 40

I

L&a

21.5 <comp * dis   Ledgered

8 36 10   71.6   50.1″
202.6   47.5″
250.1   97.6″   + 1.72″

249   +1.71″
38 45   71.6   46.9″
200.4   51.6″
252.0   98.3″ + 1.70′

Mean = +1.46″

R&B

287.7
41 23   347.0   59.3″
107.9   57.6″
164.9   116.9″ +1.26″

287.2   +1.21″
8 44 12   347.0   59.8″
160 30   106.1   61.7″
8 40 08   167.8   121.5″ +1.16″

5ʰ – 0 50

13 39 18 → G.M.T.

5352.5690″

5352.4603

+0.1087″ (4.0061)

Nov. 28/1900

II

~~R.O.B~~
~~28 7.6~~
~~8 46 45 34 5.9~~ Clouds
~~1~~
~~1~~

Stopped by Clouds

Meas. of first group made through cloud and with considerable difficulty.

~~L.O.~~

R Draconis W Ob.

~~6 49 +55.1~~
16 26 +67.4
25 40
9 14

9 05 Sequence selected seems to be alright and the best that can be probably done

Meas. of 12th mag. stands for R Draconis W Ob.

Nov. 28, 1900.

Star 1 with

above

~~285.0~~ < comp. * dis.

~~9 24.6 347.6~~

Clouds

Above Resumed

Ledgered

289.2

9 41.6 348.2 59.0″

107.6 59.4″

167.0 118.4″ +1.23″

289.1 +1.23″

349.3 60.2″

108.7 57.9″

166.6 118.1 +1.23″

Mean = +1.36

Below

200.4

251.1 50.7″

18.3 56.7″

75.0 107.4″ +1.48″

200.9 +1.48″

9 48.8 253.7 52.8″

10.4 20.6 54.0″

9 45.2 74.6 Clouds 106.8″ +1.49″

5 - 0.8

14 44.4 ½ m.T.

5352.64

Nov. 28, 1900

Star 2 with clouds

Ledger

Above

298.8
9 58.4 340.9 48.1
114.7 46.5
161.2 94.6 + 1.79

+1.80

295.2
341.9 46.7
113.6 47.6
161.2 94.3 +1.80

Below Mean = 1.96

205.4
246.3 40.9
27.7 40.4
68.1 81.3 + 2.16

~~Comp~~ 205.3 +2.12
10 05.6 247.0 41.7
124.0 27.0 42.0
10 2.0 69.0 83.7 + 2.09
5 - 0.8
Stopped by low alt & cloud
15 1.2 Gr. M.T.
5852.626

Nov. 29, 1900

Sel. of 12th Mags. Stand. for T. Urs Maj.

12 33 +60.4

2 53

9 40

2 20

W. Obs.

25

Hagen 21

20

10 25 22

~~17~~

18

Comp ✱ = Nov 3

Eros. Phot. T. St. obs.

1 29 5– +51 19.7

-2. -3.2

1 28 57.7 +51 16.5 Eros.

-2 47.7 -13.9

1 26 10. +51 2.6 (55)

1 34 +50.0

3 40

2 06

~~Eo~~ Nov 28, 1900
Eros Continued.

11 07 Eros precedes * b by 10 secs and is 4.′6 South of it.

Star a precedes * b 57 secs ~~[illegible]~~ and is 0.′4 South of it.

Eros with Star c

Above

102.7 ∠ * dis. Ledger

11 16.0 171.5 68.8

282.6

351.5 68.9 / 137.7 +0.82

102.6

171.1 68.5 (+0.84)

283.8

350.4 66.6 / 135.1 +0.87

Below

16.8

77.8 61.0

195.2

259.5 64.3 / 125.3 +1.08

~~16.1~~ 15.6

79.5 63.9 (+1.10)

11 23.0 197.8

257.1 59.3 / 123.2 +1.12

39.0

11 19.5

5 −0.8

16 18.7 Gr. M.T.

mean +0.97

5352.680

Nov. 28, 1900 Posted.

Eros again with * c

Below

17.7 60.3✓

11 24.5 78.0

197.2 63.0✓ / 123.3✓ +1.12✓

260.2

(+1.10)✓

15.5 65.3✓

80.8

198.5 59.7✓ / 125.0✓ +1.08✓

258.2

Above

284.8 65.8✓

350.6

101.2 71.9✓ / 137.7✓ +0.82✓

173.1

(+0.82)✓

281.3 71.4✓

11 30.7 352.7 66.7✓ / 138.1✓ +0.81✓

55.2 103.9

11 27.6 170.6

5 – 0.8

mean +0.96✓

16 26.8 M.T. Eros now precedes * b 11.5 sec

11 8.7 and is 5.'0 South of b

5 352.685 Comp. Star c used above = Stu. +51° 334 (8.8)

Posted

Nov= 29, 1700 (Thursday)

B0c 1182	B 39V
21 00 39.0	21 00 00
21 01 39.1	21 01 00

Nov. 30. 1900. (Friday)

χ Cygni. Phot. I. W. obs.

19 45 + 32.6
26 10
+6 25

9 25 Too low & cloudy

Σ60 = η Cassiop. W. Obs.

0 41 +57.2
2 28
1 47

9 30 clouds

Pos. Angle = 240°

9 42 Distance 9 secs. magn = 4.0 ~~4~~ 8.0

9 40 clouds thick

10 03 all cloudy no stars visible moon invisible.

BDC 1182 B 394
21 09 28.8 21 09 20

Dec. 1, 1900 (Saturday)

BOCN82 — 13 394
7 21 39.0 — 7 21 0.0
Phot J. — χ Cygni. — W Ob.

19 45 +32.6
24 22

4 37

19 01 +33.3
24 34
4 53

7 55 Sky ~~too~~ murky moon bright ~~this~~ combined with faintness of var, makes it impossible to measure it

ο Ceti
Phot W — W Ob.

2 12 −3.6
0 52
1 20
10 40

Dec. 1, 1900.

2 cote

Right — Plotted. Ledgered

337.9
8 06.0 25.0 47.1 ×
159.4 43.7 ×
203.1 90.8 × − 1.89

340.3 − ~~2.0~~ 1.95 ×
22.8 42.5 ×
159.4 44.0 ×
203.4 86.5 × − 2.01 ×
Left. clouds Mean = − 2.04 ×
25.5
291.3 39.8
71.0 41.5 ×
112.5 81.3 × − 2.16 ×

251.3
8 16.0 292.0 40.7 × − 2.16 ×
8 11.0 71.0 40.8 ×
5 − 9.6 111.8
13 10.4 m m.t. 81.5 × − 2.15 ×
Clouds
5355.549 ×

December 1, 1900

Clouds o Ceti

~~Left~~

~~2510~~

8 18.8 ~~292.0~~ ~~+1.0~~

~~70.2~~ ~~+2.3~~

~~112.5~~ ~~83.3~~

~~Clouds~~

~~2~~

~~2~~

~~1~~

~~Right~~

Mean =

9 40 Impossible to get a second group on omicron Ceti.

Σ 60 = η Cassiop W Ob.

0 41 +54.2

1 46

1 03

9 48 Sky thick in this region

Σ 2675

~~20 13~~

Σ 531

20 32 +3 41

25 52

5 20

9 57 clouds thick

Dec. 1, 1900. Posted.

Too cloudy for Σ 53'

Σ 2909 W 6 b

22 22 -0.7

26 02

3 60

9 25 Abandoned too cloudy

9 30 Sky thickly cloudy everywhere
no chance for anything farther

Dec 3, 1900 Monday

BOC 1182 B 394
6 22 54.5 6 22 0.0

6 25 Cloudy

Phot T. Dm + 42° 3338 W Ob.
~~19 20 +430~~

19 40 + 44.7
23 42
4 02

19 20 +43.1
23 44
4 24

19 20 +43.1
24 12
4 52

7 15 Clouds too thick no stars visible

phot o Ceti. W Ob.
2 12 -3.6
1 20
0 52
11 08

7 22 Clouds thick no stars visible in this region

Dec. ~~2~~ 3, 1900

Σ 572 W Obs.
4 31 +26.7
(magn. 6.5–6.5)
0 31
4 00
8 00

7 30 Thickly cloudy: no stars visible.

Σ 60 η Cassiop. W Ob.
0 41 +57.2
0 41
0 00

7 35 Clouds thick.

7 40 Clouds thick double not now visible

7 50 Impossible to do anything with η Cassiop.

Σ 2822 W Obs.
21 38 28.2
24 38
3 20

8 00 No sign of either component.
No chance for any work.

Dec. 4, 1900. (Tuesday)

B a C 1182	B 392
21 01 46.1	21 01 0.0
21 03 46.1	21 03 0 0

Dec. 3, 1900 (Wednesday)

Phot W   O Cuts   W Obs.

2 1 2   -3.6

3 3 0

1. 1 8

1 0 10 Clearer

Right   Ledgered.

~~Plotted.~~

23.0 160.9

10 ~~18.0~~ 205.9   45.0*

336.6   49.5*

26.1   94.5* -1.80*

156.8   -1.77*

205.9   49.1*

338.0   47.7*

25.7   96.8* -1.74*

Left

68.7   mean = -1.80*

113.6   44.9*

246.6   45.4*

292.0   90.3* -1.91*

65.8 clouds   -1.82*

10 30.0 116.4 clouds   50.6*

10 26.5* ~~247.4~~ clouds   46.3*

5 -0.9 ~~294.0~~   96.9* -1.73*

15 23.642 m. clouds

5359.642* 247.9

294.2

Posted.

Dec. 5, 1900

o again:

~~Left~~

69.0

10 53.0 115.6 46.6*

247.3 46.6*

293.9 93.2* − 183*

67.7 − 182*

114.8 47.1*

246.5 47.1*

293.6 94.2* − 180*

Right Mean = − 1.86*

338.4

22.9 44.5*

158.0 43.4*

201.4 87.9* − 197*

336.7 − 1.90*

10 59.6 23.8 47.1*

10 56.3* 157.4 45.6*

5 − 0.9

15 55.4* Gr. M.T. 203.0 92.7* − 184*

Final Mean = − 1.88*

5359.663*

Meas. made ~~with~~ very carefully

1108 but with some difficulty through

more or less cloud

BOC 1182 B 394

21 05 0.0 21 04 0.0

Dec 6, 1900 Thursday

BOC 1182
21 10 21.2

B 394
21 09 00

Dec 7, 1900. (Friday).

Phot R. m. R 441 W Ob.

3 31 + 62.8
0 31
3 00

9 00

7 15 clouds
7 20 cloudy

7 32 abandoned: too cloudy.

BDC 1182	Bond 394
7 33 17.6	7 32 0.0
7 34 17.6	7 33 0.0

Phot T. U Cephei. W Ob.

0 5.0 + 81.1
0 58
0 08

Dec. 7, 1900
U Cephei.

I
Ledgered

Left
266.4 < var dis.

7 50 23 11.3 104.9
90.0 94.2
184.2 199.1
160.9 + 0.36

272.2 + 0.35
52 11 6.2 94.0
86.3 103.7
190.0 197.7 + 0.34
162.3

Mean = +0.16

Right.
~~275.4~~
360.3
56 42 95.0 94.7
184.7 87.7
272.4 182.4
177.6 + 0.05

342 − 0.02
58 25 91.3 87.1
17 41 183.0 88.9
7 54 25 271.9 176.0 − 0.08
5 −1 17
12 53 08 Gr M Time
5361.5369
5361.2390
+ 0.2979 Uniform.

5361.5369
5361.3974
0.1395 Hartwig

Dec. 7, 1900

II

Right.

2.6

8 00 30 93.7   91.1*

186.0   79.3*

265.3   170.4* − 0.18*

5.3   −0.16*

02 38 90.2   84.9*

183.3   88.3*

271.6   173.2* − 0.13*

Left.   mean = −0.06*

270.4

05 11 365.0   94.6*

92.8   88.5*

181.3   183.1*

176.9* + 0.06*

272.6   + 0.03*

8 07 11 361.4   88.8*

15 30 92.4   91.2*

8 03 52 183.6   180.0*   0.00*

5 −1 17

13 02 35 Gr. mt.

5361.5435   .5435

5361.2390   3974

+0.3045 Uniform. 0.1461 Hartwig.

Dec. 7, 1900.

III

Left.

	273.8		
8 09 52	363.2	89.4*	
	94.6	86.8*	
	181.4	176.2*	− 0.07*
	276.1		− 0.10*
11 49	359.8	83.7*	
	93.3	88.9*	
	182.2	172.6*	− 0.14*

Right. Mean = − 0.22*

	183.6		
14 00	268.2	84.6*	
	7.9	78.4*	
	86.3	163.0*	− 0.32*
	189.1		− 0.33*
8 15 03	268.6	79.5*	
5 1 24	7.0	82.8*	
8 12 51*	89.8	162.3*	− 0.34*

5 −1 17

13 11 34 Gr. M. Time.

5561.5497* .5497

5561.2390 .3974

+0.3107* Uniform. 0.1523 Saturn

Dec. 5, 1900

IV

Right

187.8
8 18 00 267.3 795*
9.8 757*
85.5 1552* — 0.47*

190.2 — 0.44*
19 44 264.3 741*
6.5 837*
90.2 1578* — 0.42*

Left. Mean = −0.34*

93.1
21 54 181.9 888*
279.1 808*
359.9 1696* — 0.26*

94.3 — 0.24*
8 23 54 176.7 823*
83 32 277.0 826*
8 20 53 359.6 1649* — 029*
5 −1 17
13 19 36 Gr. M. T.
5361.5558* .5553
5361.2390 .3974
+0.3163* Uniform 0.1579

December 7, 1900

V

Left

94.8
8 25 16 177.9 83.1
279.2 78.0
357.2 161.1 - 0.36

98.3 -0.36
26 54 176.7 78.4
275.2 83.2
358.4 161.6 - 0.35

Mean = -0.49

Right

~~9~~7.4
29 00 87.6 80.2
192.4 69.3
261.7 149.5 - 0.58

128 - 0.62
8 30 30 83.5 70.7
11 1 40 189.3 75.2
8 27 55 264.5 145.9 - 0.66
5 - 1 17
13 26 38 Gr. M. Time

Pos. Angle. = 172.5

5361. 5601 Sprocket Wheel = -1.5 B
5361. 2390 " = -0.8 C
+ 0.3211 Uniform.

5601
3974
0.1627

Dec. 7, 1900.

Phot   o Ceti   ~~Phot~~

2 12 -3.6   2w 66

2 02

0 10

11 50

8 47   Too cloudy

Σ 919   2w 66

6 22   -6.9

2 12

4 10

7 50

Too low & cloudy

Σ 590

x 38 -9.0   2w 66

2 18

2 20

9 40

Σ 590.

Pos Ang 310° Dist 11″.

Magn 6.2 - 6.7

Dec 7, 1900.

phot R. Σ 590 20 Obs,

Above A.
< brighter obs

218.8
9 12.0 293.2 74.4
28.8 91.4
120.2 165.8 − 0.27

209.2 91.0 − 0.26
300.2 76.6
34.2
110.8 167.6 − 0.24

Below B. Mean = − 0.22
123.0
208.1 80.1
299.4 91.8
31.2 171.9 − 0.15

119.1
9 21.1 207.2 88.1 − 0.19
33.1 303.8 79.6
9 16.6 23.4 167.7 − 0.23
5 − 1.3
14 15.3 m.m.t. Troubled by clouds; -
5361. Images somewhat faint
in last settings.

~~222~~

Dec. 7, 1900

Phot R. Σ 752 w Obs

5 29 – 6.0
2 49

2 40
9 20

Poz. Angle 135° Dist 12″ Mage = 3.5 & 7.9

Below

69.1 (brighter dis.
9 37.0 85.3 16.2″
250.1 14.4″
264.5 30.6″ – 4.36″

69.6 – 4.37″
83.2 13.6″
16.7″
248.5
265.2 30.3″ – 4.38″
mean = 4.37″

Above

339.5
355.1 15.6″
14.9″
159.6 30.5″ – 4.37″
174.5

339.7 – 4.37″
9 47.2 354.7 15.0″
159.6 15.5″
9 42.1
5 – 1.3 175.1 30.5″ – 4.37

10. 40.8 p.m. m.t. Companion a little faint in light cloud, but much gave [illegible] & obs considered good.
5861.

Dec. 7, 1900

Eros. Phot. T. W. obs.

Eros. (55) Dec. 6 = $1^h\ 23^m\ 57.^s$ $+48°\ 22'.3$

+11. −22.1

" " " 7 = 1 24 8. +48 0.2

Dm. +48° 460 (9.5) = 1 24 16.3 +48 12.8

−8. −12.6

~~20 66~~

1 29 +47.9

3 34

2 05

10.29 Eros follows DM +47° 443 (8.9) by 14.5 secs and is 4'.2 North of it

Comp ✱ = DM +48° 463 (8.3)

see next page
for measurements of Eros.

224

Dec. 7, 1900

Phot T. Eros with (8.3) w O b.

Ledgered.

Above

1075 <* dis.

10365 165.9 58.4*

286.4 62.2*

348.6 120.6* + 1.18*

1051.4 +1.24*

~~1~~167.9 62.5*

291.3 53.3*

344.6 115.8* + 1.29*

Below Mean = +1.86

23.4

72.8 49.4*

198.9 57.6*

256.5 107.0* + 1.49*

20.1 + 1.48*

1043.2 75.1 55.0*

201.2 52.5*

79.7 253.7 107.5* + 1.48*

10 39.8

5 - 1.3

1038.54 m T.

5361.65 2*

Dec. 7, 1900.
Eros again.

This book entirely posted, ledgered.

Below
22.6
10 45.2 73.9 57.3″
198.5 54.9″
253.4 106.2″ +1.51″
19.6
73.9 54.3″ +1.54″
203.1 49.2″
252.3 ~~90.5~~″ +1.57″
103.5

Mean = +1.40″

above
290.9
344.3 53.4″
105.7 62.3″
168.0 115.7″ +1.29″
287.7
10 51.2 348.2 60.3″ +1.26″
107.8 58.0″
10 48.2
5 -1.3 165.8 118.3″ +1.23″
15 46.9 Gr. M. Time
5 361.658″

Final Mean = +1.38″

10 59 Eros now follows +47° 443 (8.9) by 14.5 secs and is 3.′4 N. of it
B&C 11 f 2 B 39 K
11 05 14.7 11 04 0.0
B&C 11 f 2 B 39 K
21 08 19.5 21 07 0.0