KG
11365
545

KG 11365.545

KG 11365.545

HARVARD
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January 19, 1901 (Saturday)

B&C 1182 B 394
6 04 45.0 6 02 00
6 05 45.0 6 03 00

Ceraskin +45° 3062
Phot T. 208 +46.3 w-Obs
2628
Left 6 20 I
884 < comp * dia Ledgered
6 34 44 152.6 64.2
271.8 62.1
333.9 126.3 +1.06
91.3
36 57 154.0 62.7 +1.10
271.4 60.4
331.8 123.1 +1.13
Right. mean = +1.14
2.1
40 10 60.3 58.2
182.0 60.2
242.2 118.4 +1.23

0.2 +1.19
6 41 56 62.8 62.6
15 3 47 182.5 59.3
6 38 27 241.8 121.9 +1.15
5-2 45 5404.4831
11 35 42 Gr.M. Time - 5404.3761
+0.1070

January 19, 1901

II

Right
359.5
6 44 09 61.5. 62.0 x
181.3 61.8 x
243.1 123.8 x +1.11 x

359.0 +1.10 x
46 46 62.2 63.2 x
182.4 61.0 x
243.4 124.2 x +1.10 x

below Mean = +0.93 x
268.6
50 30 336.0 67.4 x
87.0 67.9 x
154.9 135.3 x +0.87 x

267.5 +0.86 x
6 52 45 335.7 67.7 x
19.4 10 87.1 69.2 x
6 48 32 156.3 136.9 x +0.84 x
5 - 2 45 x
11 45 47 Gr M Time
5404.4902 x
5404.3761 x
+0.1141 x

Jan. 19. 1901

III

Left

266.7
6 57 10 337.4 70.7 x
86.9 69.9 x
156.8 140.6 x +0.76 x

267.1 +0.76 x
7 00 28 337.0 69.9 x
86.8 70.7 x
157.5 140.6 x +0.76 x

Mean = +0.77 x

Right
177.4
7 05 20 246.8 69.4 x
356.7 70.0 x
66.7 139.4 x +0.79 x

+0.78 x
177.1
7 07 00 245.8 68.7 x
249 58 355.2 70.8 x
7 02 30 66.0 139.5 x +0.78 x
5 - 2 45
1 59 45 x Gr. M. Time
5404.4999 x
5404.3761 x
+0.1238 x

Jan. 19, 1901.

IV

Right
175.5
7 14 43 246.9 71.4 ×
355.3 72.3
67.6 143.7 × +0.70 ×

176.6 +0.70 ×
18 40 246.9 70.3 ×
353.9 73.1 ×
67.40 143.4 × +0.71 ×
Left Mean = +0.60 ×
82.7
21 56 159.5 76.8 ×
263.6 75.8 ×
339.4 152.6 × +0.52 ×

82.3 +0.51 ×
7 25 06 159.9 77.6 ×
80 25 263.4 76.4 ×
7 20 06 339.8 154.0 × +0.50 ×
5 -2 45 P.a. Ang 277.6
12 17 21 Gr. M. Time Spr. Wheel B-1.5
5404.5121 × " " C-0.5
5404.3761 ×
+0.1360 ×

January 19, 1901.

Phot W o Ceti w Obs.

2 12 - 3.6
4 18
2 06

I

R&B

Plotted.
Ledgered

216.1
8 21.0 294.8 78.7 x
35.8 79.8 x
115.6 158.5 x - 0.41 x

216.3 - 0.48 x
293.2 76.9 x
37.7 74.6 x
112.3 151.6 x - 0.54 x

L&a Mean = - 0.47 x

127.4
204.8 77.4 x
305.6 79.7 x
25.3 157.1 x - 0.44 x

127.0 - 0.46 x
8 29.5 204.2 77.2 x
10.5 307.2 77.2 x
8 25.2 24.4 154.4 x - 0.49 x
5 - 2.8
13 22.4 x Gr. M. Time
5404.577 x

Jan. 19, 1901

Same Again

II

L & a

126.1

8 31.8   204.9   78.8

306.4   77.8

24.2   156.6 − 0.45

126.3   −0.43

205.4   79.1

305.7   79.5

25.2   158.6 −0.41

R & B   Mean = −0.44

36.2

114.6   78.4

216.2   78.6

294.8   157.0 − 0.44

38.1   −0.46

8 39.2   114.0   75.9

11.0   216.2   79.0

8 35.5   295.2   154.9 − 0.48

5 − 2.8   ~~Final Mean~~ = −0.46

13 32.7 Bam Time

5404.565

Jan. 19, 1901.

Same Again - III

R 883.

36.4

857.6 115.2 78.8×

217.7 76.1×

293.8 154.9× − 0.48×

37.9 − 0.49×

114.3 76.4×

216.7 77.6×

294.3 154.0× − 0.50+

L&a. mean = − 0.46×

306.0

25.1 79.1×

125.4 79.1+

204.5 158.2× − 0.42×

305.4 − 0.42×

904.4 25.6 78.2×

122.0 126.4 79.0×

9 01.0× 205.4 157.2× − 0.43×

5 - 028

13 58.2+ Gr. M. T.

5404. 582+

Jan. 19, 1901.

IV

L & a
~~R & B~~
307.0
9 06.8 23.4 76.4 x
126.1 78.7 x
204.8 155.1 x −0.48 x

−0.46 x
306.2
23.8 77.6 x
126.0 79.3 x
205.3 156.9 x −0.44 x
~~L & a.~~
R & B mean = −0.47 x
217.1
294.1 77.0 x
36.2 78.7 x
114.9 155.7 x − 0.46 x

217.6 −0.48 x
9 130 293.6 76.0 x
19.8 36.2 77.8
9 9.9 x 114.8 153.8 − 0.50 x
5 −2.8 Final mean = −0.46 x
14 7.1 Gr. M. Time.
5404.588 x

Jan. 19, 1901.

U Cassiop

6 39 + 47.7
5 39
5 00

Prelim. Selection of 16th Magn. Stand.
No 1 follows ~~var~~ star 2 secs & is 5.2' S of it.
" 2 follows " 16 " " " 3.0' S " "
" 3 follows " 26 " " " 4.3' S " "
" 4 preceeds " 11.5 " " " 3.8' N " "
" 5 follows " 2 " " " 3.3' S " "

first four stars referred to no 22 (Hagen)
last star referred to Hagen no 19

Jan. 19. 1901.

Eros. Phot. I. Wr. obs.

2 55 6. +30 3
2 58 30. +29 58
3 24. -25

2 55 6. +30 3
+34. -4
Eros. (1855) = 2 55 40. +29 59
+29 517 (8.4) 2 54 58 56
+42 +3

2 48 +31 3
6 18
3 30

204
34

10 14 Eros follows +29 517 (8.4) by 35 secs & is 2'.2 N of it.

Comp * = +29° 519 (8.6)

Jan 19, 1901

Eros with (8.6)

Left — Ledgered

94.8 < comp ×olis.

10 33.4 147.9 — 53.1×

276.3 — 50.9×

327.2 — 104.0× +1.56×

96.2 — +1.59×

146.8 — 50.6×

275.8 — 51.0×

320.8 — 101.6× +1.62×

Right — Mean = +1.62×

6.4

55.9 — 49.5×

186.3 — 50.2×

236.5 — 99.7× +1.66×

6.8 — +1.66×

10 42.6 — 55.6 — 48.8×

76.0 — 186.5 — 50.6×

10 38.0× — 237.2 — 99.4× +1.67×

5 — 2.8

15 35.2× Gr. M. Time

5404.649×

Jan 19, 1901

Eros Again

Right.

6.8

10 46.4 55.9 — 49.1 ✓

186.7 — 50.3 ✓

237.0 — 99.4 ✓ +1.67 ✓

6.3

55.8 — 49.5 ✓ — +1.67 ✓

186.8 — 50.0 ✓

236.8. — 99.5 ✓ +1.67 ✓

Left.

276.2 — Mean = +1.64 ✓

327.5 — 51.3 ✓

95.6 — 51.4 ✓

147.0 — 102.7 ✓ + 1.59 ✓

+1.61

276.4

10 55.2 326.4 — 50.0 ✓

101.6 96.0 — 51.1 ✓

10 50.8 ✓ 147.4 — 101.1 ✓ + 1.63 ✓

5 -2.8

15 48.0 ✓ M.T. — Final Mean = +1.63 ✓

11 00 Eros now follows +29° 517 (8.4) by

5404.658 ✓ Where x is [illegible] N f it

Hence this is / Eros

Posted-

Jan. 20, 1901 (Sunday) (~~Monday~~)

B&C 1182	B 39K
21 02 21.3	20 59 0.0
21 03 21.3	21 00 0.0

Jan. 21, 1901 (Monday)

B & C 1182 B 394

21 08 51.0 21 04 00

Jan. 22, 1901. (Tuesday)

B&C 1182 — B 39X
6 01 04.5 — 6 01 00
reset chron before above Comp.

at 6.00 M.T. = 2.23 sidereal Time.

S Ceti. — W Ob.

Final Selection of 14th Magn Standards

0 12 − 9.6
2 32
2 20

g 1) 4~~8~~5 secs following var and 7′.7 North of it
k 2) 45 " " " 4.7 North " "
~~3) 1m 6.5 secs " " " 0.5 North " "~~
l ~~4)~~ 30.5 secs " " " 0.0 " "
h 5) 17.5 secs preceding " " 2.4 North " "
f 3) 3.5 secs " " " 5.5 North " "

Final Positions of 14 mag. stars above referred to Variable.

Sel. of 14th mag Standards. R Pegasi. W Ob.

23 3 + 9.0
27 23
4 20

f 14.5 secs following var & 1′.8 South of it.
k 58.5 " " " & 3′.0 South " "
l 32 " " " & 8′.2 South " "
h 11 " " " & 3′.~~4~~1 North " "
g 23 " " " & 5′.0 North " "

Positions of 14th mag. stars above referred to Variable.

Jan. 22, 1901

R Lacertae. w Ob.

22 37 +41.6
+1 −.6
22 38 +41.0
28 40
6 02

Selection of 14th Magn Standards.

	~~+57 secs~~	~~−4.5~~
b	+56.5 secs	−4'5
h	+1^m 18.5 secs	+1.8
k	+1^m 27.5 secs	−3'3
g	+41 secs	+2'6
f	+49. secs	+3'8

Positions of 14th mag. stars above referred to Variable.

U Cassiop. w Ob.

0 39 +47.7
5 41
Final Exam 5 02
of 14th Magn Stand.
0 39
6 07
5 28

k	+16	−2.8
f	+26	−4.5
h	−11.5	+3.7
g	+38	−5'2
l	+24	~~−5.8~~ ~~−7.0~~

all Referred to Hagen No 22

+ 24 −7.3

Jan 22, 1901.

If this is taken in place of l it will be ~~the~~ brightest ~~of~~ all.

Eros. Phot. 7. W. B.

3 5 18.✓ +28 49.
8 48.✓ 28 24
3 30 −25

3 5 18.✓ +28 49
+35 ✓ −4
Eros. (55) = 3−5−53.✓ +28 45✓
+28 507 (8.5) = 3 4 53. 41
+1 0 +4.

3 12 +28 5
6 38
3 26

10 20 Eros follows +28° 507 (8.5) by 57.5 ~~57~~ secs + 2'.3 N of it
6/210
35.

Comp ✶ = +28° 509 (8.4)

Posted.

Jan. 22, 1901

Eros with (8.C)

Above

~~194.8~~ < comp * dis.
~~10 36.0~~ ~~228.3~~ 16.3
10 46.0 ~~16.3~~ 46.5 Clouds
~~46.8~~

~~196.2~~
~~226.7~~

Below

11 00 Clouds prevent obs
of Eros abandoned

Posted

Jan. 2~~2~~3, 1901 (Wednesday)

B&C1182 ~~Eros Again~~ B 394

21 10 3.95 21 10 0.0

Jan. 24, 1901 (Thursday)

BD C 1182 B 39X
7 06 41.8 7 06 60.0

R Lacertae w Obs
22 38 + 41.0
27 53
5 15

7 45 Selection of 14 ~~to~~ magns. seems all right,

~~night~~ Some fog now beginning to form on objective

Phot W o Ceti. w Obs
2 12 - 3 6
4 25
2 13

see next page

Jan 24, 1901.

o Ceti

R&B
~~217.5~~
8 09.0 ~~295.6~~
~~235.8~~
~~115.4~~ clouds

~~215.8~~
~~295.0~~
~~35.9~~
~~115.3~~ ~~Clouds~~

L&a
125.0
204.0 clouds

see next page

Jan 24, 1901

o Ceti

Plotted.
Ledgered.

L+A
126.5
8 40.0 204.5 78.0 x
306.0 78.2 x
24.2 156.2 x -0.45 x

-0.45 x
126.1
203.7 77.6 x
306.0 78.7 x
24.7 clouds 156.3 x -0.45 x

R+B
mean = -0.44
36.0
115.5 79.5 x
215.3 78.8 x
294.1 158.3 x - 0.41 x

36.4
8 47.4 114.2 77.8 x - 0.42 x
7.4 215.5 79.4 x
8 43.7 x 294.9 157.2 x - 0.43 x
5 - 0.7
13 43.0 x Gr M Time.
5409.572 x

Jan 24 1901

Same Again

	R&B		
	36.4		
8 50.8	115.7	79.3	
	216.0	80.2	
	296.2	159.5	– 0.39
	35.9		– 0.40
	114.3	78.4	
	216.1	79.5	
	295.6	157.9	– 0.42
	L&A		Mean = – 0.43
	306.6		
	24.9	78.3	
	126.5	77.9	
	204.4	156.2	– 0.45
	306.1		– 0.46
9 00.0	24.3	78.2	
8 55.4	12~~7~~6.5	77.9	Final M = – 0.44
5 0.7	204.4	156.1	– 0.46

13 54.79 m.t. night poor. much moisture in

5409.580 ~~the~~ air. and considerable cloud.

9 10 Observations made ~~through~~ cloud.

Quite a heavy coating of frost on object glass. Obs above on a rate 1/2 weight.

Jan. 24, 1901.

omitted by mistake see

Jan. 24, 1901.

—page 26 for continuance of evening's work.

Posted to here

Jan 24, 1901.

Σ 1625 20 Obs.

12 10 +80.8

5 50

6 20

5 40

9 : 30 Sky very cloudy & unsteady
Growing worse. ~~heavy~~
coating of frost on objective
shows quite heavy.
Impossible to continue

BAC 1182 B 39
21 07 55.4 21 07 0.0

Jan. 25, 1901 (Friday)

B&C 1182 — B 39x

7 02 57.6 — 7 02 0.0

7 03 57.7 — 7 03 0.0

Phot T. — R Ursae Minoris — w Ob.

above — 16 34 +72.9

185.2 — 27 44 — Plotted.

7 51.2 238.1 — 11 10 — 52.9 x — Ledgered

3.4 — comp. & obs. — 55.2 x

58.6 — 108.1 x +1.46 x

183.4 — +1.41 x

239.8 — 56.4 x

3.8 — 56.2 x

60.0 — 112.6 x +1.36 x

mean = +1.38 x

Below

91.3

151.3 — 60.0 x

276.6 — 54.0 x

330.6 — 114.0 x +1.33 x

93.8 — +1.34 x

8 00.0 149.1 — 55.3 x

11.2 273.1 — 58.1 x

7 55.6 331.2 — 113.4 x +1.34 x

5 - 1.0

12 54.6 x Gr. M. Time

5410.538 x

Jan. 25, 1901.

II R Ursae Minoris Again

~~Above~~ Below

186.3 < comp * dis

~~7 26.5~~ ~~270.6~~ ~~54.3~~

93.3

8 080 149.6 56.3

273.7 56.7

330.4 113.0 +1.35

92.6

149.5 57.1 +1.34

274.1 56.4

330.5 113.5 +1.34

~~Below~~ Above mean = +1.37

3.9

59.7 55.8

183.5 56.0

239.5 111.8 + 1.38

3.5

60.3 56.8 +1.40

8 20.0 184.6 53.7

8 14.0 238.3 110.5 +1.41 Final h = +1.38

5 − 1.0 Pos. Angle = 138.2

13. 13.0 G. M. Time Spr. wheel = B − 1.5

5410.551 " " = C −

Jan. 25, 1901.

In phot. T. the pin ~~which holds~~ through which the acromatic prisms are carried by the chain broke was replaced by a new pin evidently the new pin was not replaced in the same hole so that sprocket readings is different and will be henceforth on account of it

R. Urs. Min. note.

Somewhat troubled by clouds ~~especially~~ in last group. Sky apparently pretty clear in first group. Much care exercised and observations thought to be good

R Ceti w Ok

2 21 -0.6
5 16
2 55

Exam of 14th magns.

2 14 -0.3
5 21
3 07

Moon somewhat troublesome but selection thought to be pretty good

Jan 25/1901.

Planets 25 Ob

Exam of 1Kth Magn Stands.

2 58 +1 2.7

5 38

2 40

Moon rather bright but as far as can seen selection seems to be pretty good.

Phot w e Ceti 25 Ob

2 12 -3.6

5 52

3 40

abandoned to low & cloudy

Jan. 25 1901.

Eros. Phot. T₁ Gr. obs.

3 15 54 +27 34
19 24 +27 9
3 30 25

3 15 54. +27 34
+35 −4
Eros. (55) = 3 16 29 +27 30
+27° 5 05 (9.1) = 3 15 54 +27 27
+35 +3

3 12 28.5
6 12
3 00

6h2 + S.T. +25 +4.3

~~240~~
35
9 57 Eros now follows +27° 5 05 (9.1) 26.5 sec
& is 4.'2 ~~#~~ N of it

Comp ✶ = +27° 5 0 ~~6~~ 4 (9.5)

(over)

Jan 25, 1901.

Eros with 9.5

Cloudy
Above
~~342.1~~ {comp * dis
10 42.0 ~~74.1~~ clouds

11 00 Utterly impossible to get Eros after long trial
Sky too hazy

B&C 1182	B 394
21 29 03.0	21 28 00
21 30 02.9	21 29 00

Jan 26, 1901 (Saturday)

B&C 1182 — B 394
7 05 05.0 — 7 04 0.0
Region of New Variable
20 54 +42.0 w Ob
27 54
7 00 — Plotted.
Abandoned — Ledgered
Phot w o Ceti — w Ob
2 12 −3.6
R&B. 3 56
214.7 1 xx
7 27.0 296.0 81.3^{x}
36.6 77.2^{x}
113.8 158.5^{x} −0.41^{x}
215.7 −0.39^{x}
294.9 79.2^{x}
34.3 81.4^{x}
115.7 160.6^{x} −0.37^{x}
L&a. Mean = −0.38^{x}
124.6
204.4 79.8^{x}
304.2 79.9^{x}
24.1 159.7^{x} −0.39^{x}
124.4
7 38.8 204.8 80.4^{x} −0.38^{x}
65.8 304.2 80.4^{x}
7 32.9
5 −1.11 24.6 160.8^{x} −0.37^{x}
12 31. 8^{x} Gr. M. Time -
5411.522^{x}

Jan. 26, 1901.

Same Again

L & above

124.2

7 41.4 204.6 80.4*

305.~~8~~7 78.8*

24.5 159.2* – 0.40*

125.1 – 0.40*

204.9 79.8*

305.2 79.8

2~~6~~.50 159.6* – 0.39*

R & Below Mean = – 0.39*

35.4

114.7 79.3

214.8 80.4

295.2 159.7 – 0.39*

34.6 – 0.38*

7 53.0 115.3 80.7

94.4 214.4 79.6

7 47.2* 294.0 160.3 – 0.38*

5 – 1.1 Final Mean = – 0.38*

12 46.1* G. M. Time

5411.532*

Jan 26 1901.

R Ceti   w Obs

Final Exam of 14th magn. Stands.

2 14 − 03
4 54
2 40

Troubled by moonlight in exam. ~~The~~ but power 270 used, all the 14th magns seen & selection considered good.

~~Not~~ U Cassiop.   w Obs

0 39 +47.7
5 15
4 36

14th Magn Stand
Moonlight some troublesome ~~but stars very well seen & selection considered good~~ Star l. abandoned & new f taken

U Arietis   w Obs

2 58 +12.7
5 58
3 00

Exam of 14th Magn Stand
Moon not very far distant and somewhat troublesome and high power used selection considered very good.

Jan. 26, 1901.

Eros Phot T. W.C.B.

3 19 24. +27 9
23 0. 26 46
3 36. −23

3 19 24. +27 9
+36. −4
Eros (√√) 3 20 0. 27 5
+26 560 (9.2) = 3 20 24. 26 54
−24. +11.

~~&~~ 3 23 27.1
6 33
3 10

10 01 Eros precedes +26° 560 (9.2) ~~2 16~~
30secs & about 1'.0 N. ~~36.~~

Comp ☆ = DM +26° 560 (9.2)

Jan 26, 1901.

Eros with 9 z

Above
184.6 < comp * obs.
10 20.6 240.8
2.4
59.8

2.3
18~~7.9~~
239.2
1.9
57.3

Below
91.6
146.3 clouds
272.3 clouds thick.

Clouds came suddenly
11 20 & thickly impossible
to finish group on Eros
11 22 Sky; all thick no stars visible

Jan. 27. 1900. (Sunday)

Eros. Phot. I. W. obs.

3 23 +27.0
7 48
+4 25

3 23 0.✓ +26 46✓
3 26 36.8 +26 21✓
3 36✓ 25.✓

3 23 0. +26 46.
+49.✓ −5.
Eros (55) = 3 23 49✓ +26 41✓
+26° 569 (9.3) = 3 23 53✓ +26 52
−4. −11.

13h 0m Tried a very long time to get Eros, but impossible: Clouds now growing worse still.

Jan. 27, 1900 **Posted-**

B&C 1182	B 394
~~21 0~~	~~21 09 08.2~~
21 09 08.2	21 08 0.0

Posted - Jan. 28. 1901. (Monday)

Cloudy
Eros. Phot. I. Fr. Wr. obs.

3 23 +27.0
8 2
+4 39

Too cloudy for Eros. Clouds cover region now, also.

B&C 1182 13 39 ✓
21 14 17.7 21 13 0.0

Jan. 29, 1901 (Tuesday)

B+C 1182 — B 394

7 06 13.6 — 7 05 00.0

U Arietis w Ob.

Exam. of 14th Mag. Stand.

2 58 +12.7

4 08

1 10

Sky pretty clear moon not very far from region making obs rather
7 45 difficult Selection however seems to be good as near as can be determined in rather bright moonlight.

Ari Pol. Var. & Faint Var.

w Ob.

R Pegasi

23 2 +9.0

29 12

6 10

Too low

S Cassiop w Ob.

1 10 +72.1

5 14

4 04

over

Jan 29, 1901.
Moon rather bright & trouble
some var very faint
but var thought to be seen at
intervals though not steadily

Ledgered, Plotted

8 44 Var - Star X.

R Aurigae

5 3 53.0
5 43
0 10

8 58 alt too high at present.

3 34 +25.9
5 44
2 10

Jan. 29, 1901.

Eros. Phot. I. W. Ms.

3 30 12 +25 56
33 54 25 32
+3 42. 24

3 30 12 +25 56
+37 4
3 30 49. 25 52,
+25' 5-24 (-.9?) = 3 30 47. 25 40
+2. +12

3 23 27.0

abandoned for the present.

222
37

R Aurigae

5 3 +5 3.0
5 5 8 Ledgered
0 55 Plotted

9 18 Q 3 var, var 12 in large telescope too faint for finder. moon pretty bright high power used

Jan-29, 1901

Eros Resumed w Obs

Phot T.
3 23 +27.0
6 13
2 50

9 31 Eros precedes +25° 584 (8.9) 9.5 secs & is 12'.8 N of it.

Comp ✶ = +25° 584 (8.9)

Ledgered

Above
186.8 <comp ✶ dis
9 57.0 239.2 52.4✶
5.0 51.4✶
56.4 103.8✶ + 1.56✶
185.5
239.0 53.5✶ +1.52✶
4.3 54.3✶
58.6 107.8✶ + 1.47✶
Below
92.8 mean = +1.38✶
151.7 58.9✶
272.1 59.0✶
331.1 117.9✶ +1.24✶
92.7
10 07.0 150.4 57.7✶ +1.24✶
10 02.0 272.4 60.3✶
5 - 1.2 332.7 118.0✶ +1.24✶
15 00.8 Gr. m. time
5414.626

Jan. 29, 1901.

Eros Again

Below

93.7
10/10.0 151.8 5.81
272.8 5.90
331.8 117.1 +1.26

93.6 +1.25
151.8 58.2
272.3 59.5
331.~~5~~8 117.7 +1.26

Above Mean = +1.3~~8~~2

~~3.8 clouds~~
~~59.4 55.6~~
~~181.9 " 58.0~~
~~2~~7~~39.9 113.6~~ +1.34
+1.35

~~2.5 clouds~~
~~10 22.0~~ ~~60.5 58.0~~
~~184.7 " 55.1~~
239.8 113.1 +1.35

see next page for last half of group

Jan. 29, 1901.

Last half of 2nd group.

Above

3.3 See P. 45 for 1st half of 2nd group.

10 31.6 58.8 55.5×

183.6 56.7×

240.3 112.2× + 1.37×

41.6

10 20.8× 3.2 + 1.38×

5 -12 59.2 56.0×

15 19.6× 183.9 6 55.7×

5414.639× 239.7 111.7× + 1.38×

Final mean = + 1.35×

10 42 Eros no follows comp ✗ 1.5 secs & is 11.8 N of it

Eros observed through more or less light cloud & with some difficulty especially in last half of 2nd group first taken

As it grew a little clearer last half of 2nd group was retaken to supplant ~~the~~ previous

11 00 one which was accordingly rejected Obs rather difficult on account of moonlight & light cloud much care exercised & obs

Jan 29, 1901 Posted -

considered good

B&C 1182	B 39x
21 11 14.0	21 10 00.0

Posted.

Jan 30, 1901 (Wednesday)

B & C 1182				B 3 9K			
21	23	205		21	22	0.0	
21	24	20.5		21	23	0.0	

Jan. 31, 1901 (Thursday.) Posted.

B&C 1182	B 394
21 08 15.0	21 07 0.0
21 16 14.9	21 15 0.0

Feb 1, 1901 (Friday)

B & C 1182 B 394

7 06 14.7 7 05 0.0

4, 12 S.T. at 7.10 M.T.

Photw o Ceti w Ob.

2 12 -3.6

4 15

L & a. 2 03 ~~Plotted~~

125.2 Ledgered

7 28.0 206.4 81.2

303.5 84.1

27.6 165.3 -0.28

124.9

207.3 82.4 -0.34

307.7 77.2

24.9 159.6 -0.39

R & B. mean = -0.36

34.8

115.9 79.1

216.0 80.8

296.8 159.9 -0.38

36.0 -0.38

7 36.4 115.7 79.7

64.4 210.5 80.4

7 32.2 296.9 160.1 -0.38

5 -1.2

12 31.0 Gr. m. Time

5417.522

Feb 4, 1901.

Same Again =

R&B
34.5
7 39.2 115.8 81.3×
215.5 80.8×
296.3 162.1× —0.34×

36.2 —0.36×
115.6 79.4×
215.0 80.9×
295.9 160.3× —0.38×
L&A. Mean = -0.35
306.3
25.6 79.3
124.3 82.1×
206.4 161.4× — 0.35×

304.3 —0.34×
7 47.0 26.1 81.8
86.2 125.4 80.4×
7 43.1 205.8 162.2× — 0.34×
5 - 1.2 Final Mean = -0.36×
12 41.9 G.m.t.
5417.529×

Feb. 1, 1901.

Phot W ½ 60 η Cass. w Obs

0 41 +57.2
5 28
4 47

~~PO~~

Poz Ang 220° Dist 9" Mag. 4.0 - 7.5
abandoned

Double = γ Arietis w Obs

1 52 +23.1
Phot W 5 46
3 54

Poz. Ang 40 ~~St~~ Dist 40" Magn 5.0 & 7.7

see next page

Feb. 4, 1901

Double Star λ Arietis

Above

147.1

852.0 177.4 30.3×

322.9 38.7×

361.6 69.0× −25.4×

142.9 −25.3×

181.6 38.7×

326.6 30.8×

357.4 69.5× −25.2×

Below

~~56.4~~

~~86.4~~

~~230.4~~ Mean = −25.0×

~~243.2~~

52.1

9 ~~020~~ 92.7 40.6×

236.6 30.9×

267.5 71.7× −24.5×

57.1 −24.7×

9 04.2 86.9 29.8×

116.2 231.9 40.7×

858.1 272.6 ×70.5× −24.9×

5−1.2

1356.9 G.M.T.

1901phae.proj..54GW

Feb. 4, 1901.

Double ε i. Arietis

Phot W — W.C.Oh

2 44 +26.8
6 09
3 25

Pos Ang. 225° Dist 2.7 Magn. 4.9 − 9.1

Below

339.4

~~9 17.0~~ ~~344.1~~ ~~4.7~~

~~158.9~~ ~~5.3~~

~~164.2~~ ~~10.0~~ ~~− 6.80~~

~~338.8~~

~~345.6~~ ~~6.8~~ ~~− 6.58~~

~~159.5~~ ~~5.5~~

~~165.0~~ ~~12.3~~ ~~− 6.35~~

Above A. ~~Mean = − 6.60~~

248.8

9 22.0 253.8 5.0 ×

69.2 5.9 ×

75.1 10.9 × − 6.61 × ✓

248.6 − 6.62 × ✓

~~9 27.0~~ 255.0 6.4 ×

69.4 4.4 ×

73.8 10.8 × − 6.63 × ✓

Feb. 1, 1901.

Mean = − 6.66 ×✓

Below β.

159.4

165.6 6.2 ×

~~340.0~~ 340.5 4.5 ×

345.0 10.7 × — 6.65 ×✓

— 6.70 ×✓

159.2

9 36.0 165.2 6.0 ×

340.0 4.3 ×

9 29.0 × 347.3 10.3 × — 6.74 ×✓

5 − 1.2 ~~Mean~~ = 1

14 27.8 × G. M. Time

5417.

Feb. 1. 1901.

Eros. Phot. I. W. obs.

	3 41 12 ✓	+24 44.
	44 54. ✓	20
	+3 42	−24.
	3 41 12.	+24 44 ✓
	+37	−4
Eros. α δ =	3 41 49. ✓	+24 40. ✓
+24° 56 0 (9.2) =	3 42 22. ✓	56. ✓
	−33. ✓	−16.

3. 42 +25.1
6 52
3 10

222
37

10 19 Eros precedes +24° 58 3 (7.7) by 1m 2 secs and is 4.5' S of it.

comp ✱ = + 24° 58 5 (9.1)

Feb. 1, 1901.

Err with ~~77~~ (91)

Left
~~115.7~~

~~1045.3~~

~~1044~~ < comp x obs
~~1053.K~~ ~~141.94~~ 37.3
~~280.3~~ ~~37.8~~
~~320.4~~ ~~75.1~~ +
Left
103.8
1102.0 142.4 38.6
280.4 39.2
319.6 77.8 +
~~Right~~
103.1 +
143.7
277.7 40.6
321.2 43.5
84.1 +

Right Mean = +
11 15.0 ~~7.~~ 10.0 Ledgard
~~52.4~~ 53.3 ~~42.7~~ 43.3ˣ
189.6 42.6ˣ
232.2 85.9ˣ + 2.03ˣ
8.2
+ 2.0 20ˣ
1121.0 52.3 44.1ˣ ~~44.1~~
188.8 44.2ˣ ~~42.4~~
233.0 88.3ˣ ~~87.5~~ + 1.96ˣ

see next page

Feb. 1, 1901.

Last half of mar. points

Left

11 30.0 276.6
325.8
96.2
148.7

49.2
52.5
101.7 + 1.61

~~275.7~~
~~32?.9~~

+ 1.60

~~51.2~~

~~+1.~~

96.2
11 36.0 148.3
276.0
326.4

52.1
50.4
102.5 + 1.60

11 25.5
5 -1.2
16 24.3 Eq. M. Time.
5417.683

Mean = + 1.80

11 42 Eros now precedes + 24°583 (7.7) by 59 secs & is 5.5' S of it
Hence this is Eros.

11 45 Moonlight; ~~troubled by~~ variable haze, alt a little low, observation 1/2 weight.

Feb 1, 1901. **Posted.**

BxC1182	B394
22 07 20.3	22 06 00
22 08 20.3	22 07 00

Feb 2, 1901 (Saturday)

B&C 1182 B 39x
6 19 27.7 6 18 00
6 20 27.7 6 19 00

Phot T. SS Cygni. w Obs
21 34 +43.0
27 34
6 00

Left & Above Ledgered
69.6 < comp * dis Plotted.

6 40 22 174.3 104.7 x
253.3 98.3 x
351.6 203.0 x −0.44 x
73.5 157.0 x
42 45 170.2 96.7 x −0.40 x
250.2 101.9 x
352.1 198.6 x −0.35 x
161.4 x
Mean = −0.38 x

R & B
342.7
45 54 79.4 96.7 x
162.4 102 x
265.6 199.9 x −0.38 x
160.1 x
−0.36 x

6 342.4
48 34 82.0 99.6 x
17 35 163.9 98.4 x
6 44 24 262.3 198.0 x −0.34 x
5 −1 28 162.0 x
11 42 56 G.M.T. 5418.488 x

Feb. 2, 1901.

S. S. Cygni. Again

	R.&B.		
	343.4		
6 51 34	78.8	95.4	
	161.8	100.6	
	262.4	196.0	−0.30
		164.0	
	341.8		−0.28
5 3 42	80.0	98.2	
	163.8	96.1	
	259.9	194.3	
	L.&A.	165.7	−0.27
	250.4		Mean = −0.35
57 36	352.9	102.5	
	69.2	94.8	
	164.0	197.3	
		162.7	−0.33
	249.0		
7 00 45	353.8	104.8	−0.42
23 37	71.8	101.4	
6 55 54	173.2	206.2	
5 −1 28		153.8	−0.50
11 54 26 Gr. m. Time.		~~Fin~~	
5418.496			

Final Mean = −0.36

Poz. Angle = 235.2

Sprocket Wheel = −1.5 a

" " = 0.0 B

Feb. 2, 1901.

Double λ Arietis w Obs

1 52 +23.1
Phot w. 4 28
2 36

Pos Ang 40° Dist 40" Magn 5.0 & 7.7
Below

57.4
7 34.8 87.0 29.6
232.4 39.8
272.2 69.4 – 2.53

522 – 2.50
93.5 41.3
236.6 29.7
266.3 71.0 – 2.47
Above Mean = – 2.51
322.6
363.2 40.6
147.6 29.5
177.1 70.1 – 2.51

327.5
7 44.8 356.7 29.2 – 2.52
7 39.8 142.4 40.0
5 – 1.5 182.4 69.2 – 253
12 38.3 Gr. M. time –
5418.526

Feb. 2, 1901.

Double ∝1 Arietis W Obs

2 44 +26.8

5 09

2 25

abandoned

Phot T. R Urs. Min W Obs

16 34 +72.9

5 10

L.H.A. 11 24 Plotted.

2.6 comp stars 0 36 Ledgered.

8 22.8 63.1

183.2 60.5

241.2 58.0

1.5 118.5 +1.23

62.2 60.7 +1.21

182.7 59.3

242.0 120.0 +1.19

R.H.B. Mean = +1.23

272.6

332.0 59.4

92.7 58.0

150.7 117.4 +1.25

+1.25

273.2

8 35.4 331.7 58.5

58.2 91.5 57.0

8 29.1

5 −1.5 150.5 117.5 +1.25

13 27.6 G.M.T.

5418.561

Feb. 2, 1901.

Same Again

R & B.

273.1

8 38.0 331.9 58.8 ×

92.6 58.5 ×

151.1 117.3 × + 1.25 ×

+ 1.25 ×

272.5

331.9 59.4 ×

92.8 57.8 ×

150.6 117.2 × + 1.25 ×

L & a Mean = + 1.24 ×

182.4

242.9 60.5 ×

2.6 59.2 ×

61.8 119.7 × + 1.20 ×

183.6 + 1.22 ×

8 48.8 241.6 58.0 ×

2.6 59.7 ×

8 43.4 62.3 117.7 × + 1.24 ×

5 -1.5 Final Mean = + 1.24 ×

13 41.9 Gr. Mt. Pos. Ang. = 318.6

5418.571 × Sp. Wheel = + 8.5 a

(16.5 - 8.5)" " + 9.5 B

Feb 2, 1901.

Star observed tonight was certainly R Urs. Min with correct comp*. Although spr. wheel Reading of tonight differs from that of last night Region throughly checked both night. Reading of spr. wheel tonight certainly correct. Reading of the last previous night prob. differs from that of tonight by not seeing the tooth marked 10 clearly in the darkness. and calling it 0 for 10.

Eros. Phot. T. Sr. obs.

Eros. (ā-a) Feb. 1. =	3 41 49.	+24 40.
	+3 42.	-24.
" " Feb. 2 =	3 45 31.	+24 16.
+24° 593 (9,3) =	3 45 34.	24 9
	-3.	+7

3 42 +25.1
6 34
2 52

Feb 2, 1901.

Eros. Phot. I. Gr. ob.

3 44 54.✓ +24 20.✓
45 30.✓ 23 56.✓
+3 36.✓ −24

3 44 54.✓ +24 20✓
+36. −4
Eros. α δ = 3 45 30.✓ +24 16.✓

a faint star ~~precedes~~ near the place of Eros of last night precedes +24° 583 (7.7) by 4 secs. & 9.0 S of it.

216
36.

Eros. α δ = 3 45 30. +24 16
+24 593 (9.1) = 45 34. 24 9.
−4 +7

10:02 $12^s.5$ preceding & $7'.3$ N.

589 (9.2)

Comp star = +24° 589 (9.2)

Feb 2, 1901.

Eros with (585 (9.1))

Above
280.6 < compe * dis.
10 29.6 321.8 41.2,
103.1 39.5
142.2 80.3 + 2.19

280.7 + 2.17
321.3 40.6
102.3 40.9
143.2 81.5 + 2.15

Below Mean = + 2.32
193.7
228.1 34.4
14.8 36.6
51.4 71.0 + 2.47

~~194.8~~ + 2.46
~~1045.0~~ ~~52.~~ 35.9
193.2 36.1
1.0 5 3.0 229.1 72.0 + 2.44
13.7
49.8

Feb. 2, 1901.

Eros again (9.1)

Below

194.1
10 56.8 228.8 34.7
13.6 37.7
50.3 72.4 + 24.3

192.8 + 24.1
229.6 36.8
13.6 36.8
50.4 73.6 + 23.9

Above Means +

100.2
145.0 44.8
278.9 44.8
323.7 89.6 +

99.1 +
11 16.4 146.0 46.9
278.4
3 +

3 42 + 25.1
8 38
6 56

Achromatic prisms way up and images not circular. Obs. not considered of value especially in last group. Obs. rejected.

Feb. 2, 1901.

Eros with 2x° 589 (9.2)

Ledgered.

R+a.
265.8
11 41.0 333.2 67.4
87.8 67.1
154.9 134.5 +0.89

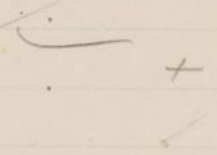
+0.88
267.3
333.2 65.9
86.5 70.0
156.5 135.9 +0.86
L+B. mean = +0.89
177.2
243.9 66.7
357.3 66.4
63.7 133.1 +0.91

+0.90
178.7
11 50.0 246.1 67.4
91.0 357.7 66.6
11 45.5 64.3 134.0 + 0.90
5 −1.5
16 44.0 Gr. M.T.
5418.697

Posted to here. Feb 2, 1901.

Eros again

L+B
178.8
11 52.0 ~~244.0~~ 65.2
~~358.1~~
~~64.7~~



1 ,
2 ,
3 , Stopped by clouds
Impossible to finish groups

12:04 Eros now follows the 9.3 6 secs
& is 5′ N. of it

Posted

Feb. 3, 1901 (Sunday

B & C 1182	B 394
21 19 56.1	21 180.0

Posted.

Feb. 4, 1901 (Monday)

BOC 1182	B 39K
21 07 04.3	21 05 00

Feb. 5, 1901 (Tuesday) Posted:

B6C 1182 B 39E

21 16 02.1 21 14 0.0

Feb 6, 1901 (Wednesday)

B&C 1182 B 394

7 07 03.5 7 05 00

S

St St Aggun w Obs

Phot T. 21 34 + 43.0

28 34

7 00

Left Plotted

356.2 < var dis. Ledgered

7 24 05 70.3 73.9

170.3 79.8

250.1 153.7 - 0.50

351.3 - 0.50

27 45 71.9 80.6

173.8 73.4

247.2 154.0 - 0.50

~~Above~~ Right mean = - 0.48

259.5

32 50 342.3 82.8

83.8 76.3

160.1 159.1 - 0.40

265.7 - 0.45

7 36 45 337.5 71.8

121 25 80.3 82.0

7 30 21 162.3 153.8 - 0.50

5 - 2 04

12 28 17 Gr. M. Time -

5422.5196

Feb 6, 1901

Right Same Again

262.8

7 40.00 340.6 77.8ˣ

81.9 79.5ˣ

161.4 157.3ˣ − 0.43ˣ

~~2~~

263.6 −0.42ˣ

45 25 341.4 77.8ˣ

81.0 80.8ˣ

161.8 158.6ˣ − 0.41ˣ

Left Mean = −0.48ˣ

176.4

50 30 248.1 71.7ˣ

354.5 76.5ˣ

71.0 148.2ˣ − 0.61ˣ

172.3 −0.54ˣ

7 53 45 2~~4~~50.6 78.3ˣ

189 40 353.3 77.5ˣ

7 47 25ˣ 70.8 155.8ˣ − 0.46ˣ

5 −2 04

12 45 21ˣ Gr. M. Time - Final Mean = −0.48ˣ

54225315ˣ

Feb. 6, 1901.

Phot W   W Obs

o Ceti

2 12 -36
5 38
3 26

R&B   Plotted.
Ledgered

212.3
8 30.0   297.1   84.8
31.7   85.8
117.5   170.6 -0.18

213.2   -0.20
296.7   83.5
33.1   84.4
117.5   167.9 -0.23
L+a   Mean = -0.27
125.2
206.6   81.4
306.8   81.5
26.3   162.9 -0.32

125.4   -0.34
8 41.8   204.6   79.2
~~8~~ 71.8   305.4   82.0
8 35.9   27.4   161.2 -0.36
5 -21
13 33.8 G.M. Time
5~~4~~ 22.565

Feb. 6, 1901

Same Again

L&A
124.4
8 44,5 206.6 82.2
303.6 83.0
26.6 165,2 −0.28

123.8 −0.28
206.7 82.9
303.5 83.1
26.6 166,0 −0.27
R&B Mean = −0.27
34.0
116.4 82.4
213.5 83.0
296.5 165.4 −0.28

33.2 −0.26
8 53,4 116.2 83.0
9.79 213.2 83.5
8 49.0 296.7 166.5 −0.25
5 −2.1
13 46.9 Gr. M. Time −
5422.574

Final Mean = −0.27

Feb 6, 1901.

Nu. P. 441 w Ob
Phot R.

3 31 +62.8
6 28
2 59

L & A. Plotted.
43.4 < var dis ! Ledgered
9 18.0 100.8 57.4 ×
226.2 526 ×
278.8 110.0 × − 142 ×

47.0 − 1.44 ×
97.2 50.2 ×
226.0 57.6 ×
283.6 107.8 × − 147 ×
Mean = − 150 ×
R & B.
315.6
367.3 51.7 ×
136.7 50.2 ×
186.9 101.9 × − 1.61 ×

318.0 − 1.56 ×
9 26.8 368.0 50.0 ×
648 134.5 55.6 ×
9 22.4 190.1 105.6 × − 152 ×
5 − 2.1
14 20.3 G. M. Time.
54 22.597 ×

Feb. 6, 1901

Same Again.

R&B

315.9

9 29.0 368.4 52.5

137.2 50.9 ×

188.1 103.4× −1.57 ×

317.1 −1.54

368.1 51.0 ×

134.2 54.6 ×

188.8 105.6 × — 1.52 ×

LDa Mean = −1.49 ×

224.7

281.0 56.3 ×

46.7 50.5 ×

97.2 106.8 × −1.49 ×

227.2 −1.44 ×

9 38.0 279.2 55.0 ×

67.0 43.9 56.2 ×

9 33.5 100.1 111.2 − 1.39 ×

5 −2.1

14 31.4 Gr Mn time.

5422.605 ×

Feb 6, 1901

3 59 42.✓ +22 45.✓
4 3 24.✓ 22 21 ✓
+3 42. -24✓

3 59 42.✓ +22 45.✓
+37.✓ -4
Eros. √5 = 4 0 19. +22 41.✓
~~Sm, +~~ ~~4 0 11. +22 32~~
~~+8. +9.~~

Eros. √v = 4 0 19✓ +22 41✓
Sm. +22° 637 (7.0) = 4 0 16✓ +22 44 222
+3. -3
4 0 +22 7 ~~20~~
7 16
3 16

10:8 Eros precedes +22° 637 (7.0) by 5 secs.

10:21 Eros precedes +22° 637 (7.0) by 3,5 secs & c 8 S.

Comp star = +23° 621 (8.8)

Feb. 6, 1901

Eros with 8.8.

Ledgered

Above
270.~~3~~5 < comp * dos
10 3~~4~~.5 332.6 62.1^{x}
91.3 61.6^{x}
152.9 123.7^{x} + 1.11^{x}

2~~7~~69.5 + 1.10^{x}
332.9 63.4^{x}
91.8 61.2^{x}
153.0 124.6^{x} + 1.09^{x}

Below
Mean = + 1.21^{x}
182.8 56.0^{x}
238.8 57.3^{x}
2.9 113.3^{x} + 1.34^{x}
60.2

+ 1.32^{x}

183.5
10 44.5 242.3 58.8^{x}
79.0 3.3 56.9^{x}
10 39.5^{x} 60.2 115.7^{x} + 1.29^{x}
5 – 2.1
15 37.4^{x} Gr. M.T. time
5422.651^{x}

Feb 6, 1901.

Eros again

Below
182.8
10 50.0± 241.4 58.6*
2.2 59.1*
61.3 117.7* + 1.24*

182.6 +1.26*
241.7 59.1*
2.4 57.6*
60.0 116.7* + 1.27*

Above Mean = +1.17*
91.3
153.0 61.7*
267.9 64.7*
332.6 126.4* + 1.05*

91.9 + 108*
11 04.0 153.8 61.9*
11 4.0 269.9 62.1
10 57.0 332.0 124.0 + 111*
5 -21 Final Mean = + 1.19*
5/11 54.9 Gr. M.T.
Eros now follows +22° 637 (7.0) by
5422.663* 4.3 secs & is 3'.75 S of it.
Hence object obs. is Eros

Feb. 6, 1901 Posted to here.

B&C 1182 B 394

21 h 06 51,2 21 h 05 00

Feb. 7, 1901 (Thursday)

B&C 1182   B 394

& 7 00 41.5   6 59 00
7 01 41.5   7 00 00

4 26 S.T. at 7.00 East Time.

R Cygni. W Obs.
19 34 +50.0
28 49
~~4 45~~
9 . 15

~~+3~~ ~~+7~~ L.
~~7 41~~ ~~y 1 var, var 3 z~~

Region very low, sky pretty clear images large & blurry from low alt and blow which has very nearly ceased. Var very faint at this alt. and difficult of observation.
Est. somewhat uncertain

7 48 y. 1 var, var 3 z
W's faint chart used with old hot in pencil the chart being marked X in upper rt hand corner.

R Pegasi
23 0 +10.0
29 16
6 16

Feb. 7, 1901.

R Pegasi

23 1 38 +10.0

-1 20 +.3

23 0 18 +10.3

23 0 +10 3

29 21

6 21

7 56 Region throughly examined star close to horizon almost on it. Impossible to do anything ~~[illegible]~~ with ran. some cloud possibly near

R Tauri w Ob.

4 28 +9.8

5 28.

1 00

Abandoned for present

Phot T. S S Cygni w Ob.

21 34 +43°

29 42

8 08

see next page

Feb. 7, 1901

SS Cygni

Led. Plott.

R~~ea~~ right.

265.4 < var dts.

8 30 30 338 ~~0~~ 3 — 72.9 x

78.1 — 84.8 x

162.9 — 157.7 x — 0.43 x

262.4 — -0.43 x

34 00 342.4 — 80.0 x

82.5 — 77.3 x

159.8 — 157.3 x — 0.43 x

Left

177.0 — Mean = - 0.54 x

39 55 248.3 — 71.3 x

353.4 — 75.3 x

68.7 — 146.6 x — 0.64 x

174.6 — -0.64 x

8 43 25 248.3 — 73.7 x

27 50 355.5 — 73.7 x

8 36 58 x 69.2 — 147.4 x — .063 x

5 - 1 42

13 35 16 x Gr. M Time.

5423.5662 x

Feb 7, 1901

Left
175.3
8 48 00 246.6 — 71.3
355.4 — 74.4
69.8 — 145.7 — 0.66

174.~~6~~9 — −0.64
51 05 249.0 — 74.1
354.9 — 74.0
68.9 — 148.1 — 0.61

Right — Mean = − 0.55
264.6
8 57 35 340.1 — 75.5
82.5 — 78.3
160.8 — 153.8 — 0.50

262.6 — −0.46
9 02 20 341.6 — 79.0
219 00 83.0 — 79.4
8 54 40 162.4 — 158.4 — 0.41
5 −1 42
13 53 03 Gr. M. Time — Mean = − 0.54
5423.5785

Feb. 7, 1901.

R Tauri   W Obs.

4 28 +9.8
6 34
2 08

4 28
6 52
2 24

9 33 W 1.5 var, var 3 x L.
Obs made in terms of penciled not on W's faint chart

R Geminorum

7 00 +23.0
7 00

Too high taken another time.

Feb 7, 1901

Eros. Phot. I. W. obs.

~~4 3 24~~

+3m 42 -24'

.1

	4	0	16	+22 43.8
			-7	-2.5
	4	0	9.	+22 41.3
		+3	42.	-24.
Eros. 55 =	4	3	51.	+22 17.
+22° 642 (9.5)	4	3	57.	+22 20
			-6.	-3.

4 0 +22.7
7 23
3 23

10 15 Eros precedes +22°648 (9.5) 3.5 secs +3.0' S of it

Comp Star = +22° 654 (8.3)

Feb 7, 1901

Eros with (8.3)

20 Obs

Ledgerwood

Right

194.5 < comp ★ dis

10 35.0 229.9 35.4✓

14.2 35.6✓

49.8 71.0✓ + 2.47×

194.5 + 2.56×

229.7 35.2✓

14.6 34.2✓

48.8 69.4✓ + 2.53×

Left

102.7 Mean = + 2.44✓

140.7 38.0✓

282.8 35.7✓

318.5 73.7× + 2.39^

102.5 + 2.39✓

10 47.0 139.9 37.4×

10 41.0 282.7 36.3✓

5 – 1.7 319.0 73.7✓ + 2.39✓

15 39.3 Gr. M. T.

5423.652

Feb 7, 1901

Eros again

Left
104.2
10 52.4 139.4 35.2x
282.5 37.0x
319.5 72.2x + 243

104.1 + 244x
139.5 35.4x
282.8 36.4x
319.2 71.8x + 245x

Right Mean = +2.48x
12.6
47.6 35.0x
194.3 35.0x
229.3 70.0x + 251

13.8 + 252
11 00.4 49.3 35.5x
10 56.4 195.7 33.6x
5 -1.7 229.3 69.1x + 2.54x
15 54.7 Gr.M.T.
5423.663x Final mean = +2.46

11 05 Eros now follows +22° 6K8 (9.5) by 4.5 secs and is 4'.3 S of it.

BDC 1182 B394
21 15370 21 1400

Thursday Feb 7. 1901.

14 17 −23.1

15 10 Read & checked

3 07

W. Obs.

Dis with Jup. I Phot R. Colson. Recorder

Compared with nearest of three caps on following and opp. side

Comp. Lat. 1 was ext. II.

17 57 54 ×	17	57	36		111.0	
−1 36			47	97.1 ✓	208.1	
17 56 18		58	02	98.3 ✓	112.7	
			11	97.7 ×	211.0	−0.3 ×
			22		110.0	
58 38 ×			33	103.0 ×	213.0	2
−1 36			43	98.8 ✓	111.2	−0.4 ×
57 02 ×			52	100.9	210.0	
		59	04		113.8	
59 16 ×			12	97.2 ✓	211.0	3
−1 36 ×			19	100.0 ×	112.2	−0.3 ×
57 40 ×			31	98.6 ×	212.2	
59 53 ×			40		112.1	
−1 36			47	99.2 ✓	211.3	4 −0.3 ×
17 58 17 ×			57	95.8 ✓	113.0	
	18	00	06	97.5 ✓	208.8	
18 00 30 +			13		112.0	
−0 36			25	98.0 ✓	210.0	
17 58 54 +			37	97.7 ✓	114.0	5 −0.3 ×
			44	97.4 ✓	211.7	
			~~53~~			
17 59 24	18	01	00		118.2	

Thursday Feb. 7. 1901

17 59 31		07	92.0	210.2	−0.1
59 40		16	91.9	118.3	−0.1
		~~27~~	89.2	~~210~~	
59 56		32	87.3	207.5	0.01
18 00 04		40	84.6	120.2	+0.1
13		49	78.8	204.8	+0.2
20		56	79.2	126.0	+0.4
27 8	02	03	83.2	205.2	+0.4
49		25	78.8	122.0	+0.3
58		34	71.7	200.8	+0.4
01 11		47	65.2	129.1	+0.7
32	03	08	58.3	194.3	+1.0
42		18	56.8	136.0	+1.3
53		29	53.6	192.8	+1.3
02 06		42		139.2	+1.5
		~~00~~	39.8		
18 02 28	04	04		179.0	+2.2

Not seen later.

Sat. rather near limb of Jupiter.

B.+C. 1182.			B. 394.		
18	7	3 v.v	18	6	0.0
	8	3 v.v		7	0.0

Jup. rather low and seeing rather poor. Images somewhat blurry and unsteady causing delay ~~in observation~~. and some uncertainty in observation.

Chronometer Corr = $-1^m 36^s$ throughout this eclipse.

Feb 8, 1901 (Friday)

B & C 1182 B.394
6 58 42.5 6 57 0.0

SS Cygni w Obs

Phot T. 21 34 +43.0
28 44
7 10

Right Led. Plot.
262.7 < var. dis.
7 28 20 342.9 80.2
85.1 72.5
157.6 152.7 * −0.52

265.1 * −0.54
32 40 339.5 74.4
78.6 76.6
155.2 151.0 * −0.56
Left Mean = * −0.51
173.1
35 15 252.3 79.2
355.1 73.5
68.6 152.7 * −0.52

165.8 * −0.48
7 37 50 246.4 80.6
134 05 353.5 76.6
7 33 31 70.1 157.2 * −0.43
5 − 1 42
12 31 49 Gr. M. Time
5424.5221

Feb 8, 1901.

Same Again

Left

171.3
7 41 15 251.6 80.3
357.2 71.6
68.8 151.9 – 0.54

176.3 – 0.54
44 10 249.5 73.2
353.0 78.5
71.5 151.7 – 0.54

Right. Mean = – 0.45
~~2~~78.1
47 35 161.2 83.1
262.6 79.3
341.9 162.4 – 0.33

79.6 – 0.36
7 52 00 162.6 83.0
~~60~~ 263.1 76.3
25 00 339.4 159.3 – 0.39
7 46 15
5 – 1 42 Final Mean = – 0.48
12 44 33 Gr. M. Time Pos. Ang – 54.7
5424.5310 Sprocket Wheel = 9.5 a
= 10.5 B

This sprocket reading is certainly right although it does not agree with ~~that~~ of Feb 2, 1901

Reason [illegible] a little [illegible] unsteady light.

but much care exercised & considered good

Feb. 8, 1901

R Geminorum W Obs.

6 56 +20.8
5 40
1 16
10 44

L.

8 42 α′ ~~2.5~~ ±3 var var 1.5 ε′

8 43 α′ 3 var, var 3 ε
Est in terms of W's faint chart marked
X in upper rt hand corner

R Persei

3 23 41 +35.3
+2 30 −.2
3 21 11 +35.1
6 32
3 11

Prel. Selection of 14th Magn Stars

1) −2.3 −5.0
2) +15.5 +1.3
3) +33.5 −2.2
4) +39.5 +1.0
5) +40.0 +2.8

a star +1.5 −7.3 may be a possible alternative for ~~the~~ (No 4) the one following 39.5 & 1.0 north

Feb 8, 1901.

Eros. Phot. T.   St. obs.

~~4 9~~

~~4 9 6.~~

4 7 6.   21 58
10 48.   21 34
+3 42   24

4 7 6.   21 58.
+37.   4
Eros. (5 5) = 4 7 43.   21 54
+22° 665 (8.7) = 4 8 12.   22 59
-29.   -5.

4 0   +22 7
7 35
3 35

~~222~~

Eros.   4 7 43   21 54.
+21° 611 (9.5) -   7 49   56
7 57 S.T.   -6   -2
~~+0~~ Eros precedes +21° 611 (9.5) 9 ~~secs~~ & 3'.8 S.

Comp. Star = +21° 610 (8.8)

Feb 8, 1901

Eros with (8.8)

	Left	comp * dis		Ledgered
	189.9			
10 44.8	232.6	42.7 x		
	89.1	45.0 x		
	54.1	87.7 x	+ 198 x	
	190.8		+ 204 x	
	232.3	41.5 x		
	10.8	42.2 x		
	53.0	83.7 x	+ 209 x	
	Right.		mean = + 2.06 x	
	100.9			
	143.5	42.6 x		
	281.3	42.3 x		
	323.6	84.9 x	+ 205 x	
	99.3		+ 208 x	
10 45.0	142.8	43.5 x		
99.8 x	281.8	39.3 x		
10 49.9	321.1	82.8 x	+ 211 x	

5 — 1.7

15 48.2 Gr. M. Time -

5424.658 x

1901phae.pr6j..546W

Feb 8, 1901

Eros Again.

Right
1009
10 58.4 142.3 41.4
282.0 39.6
321.6 81.0 + 2.17

101.1 + 2.22
142.0 40.9
283.5 37.0
320.5 77.9 + 2.26

Left mean = + 2.39
12.2
42.3 36.1
194.0 34.2
228.2 70.3 + 2.50
+ 2.56
15.6
11 12.4 50.0 34.4
130.0 194.3 32.3
11 5.4 226.6 66.7 + 2.62
+5 -1.7
16 3.7

Feb. 8, 1901 Posted to here.

Eros

Right
~~17.2~~
~~19.6.3~~
11 20.0 ~~22.6.9~~ ~~30.6~~ ~~27.8~~
~~17.6~~ ~~26.7~~
~~44.3~~

Clouds.

Eros now precedes the 9.5
9 00 S.T. 1/2 sec & 5.2 S

Region of Eros thoroughly identified both before and after putting photometer on.

In second group and first set of third group Eros progressively growing fainter, and difficult of measurement. Region thoroughly identified many times while measuring with photometer but Eros growing fainter with reference to adjacent 9.5 and faint stars. When photometer was taken off at end of groups and ordinary eye piece put on found that Eros was radically fainter with reference to adjacent 9.5 and faint stars than when seen with ordinary eye piece just before photometer was put on. Some clouds about.

B & C 1182
21 40 58.7
21 41 58.7

B 394
21 40 0.0
21 41 0.0

Feb. 9. 1901. (Saturday)

S S Cygni. Phot. T. W. Ws.

21 34 +43.0
24 50
+7 16

Cloudy

21 34 +43.0
29 21
7 47

Ledgered

Plotted.

Right
260.2 Lwardis.
7 58 20 340.8 80.6
77.6 85.3
162.9 165.9 −0.27

257.9 −0.24
8 00 20 342.8 85.1
79.9 84.1
164.0 169.2 −0.20

Left
174.0 Mean = −0.35
8 04 00 248.1 74.1
348.8 82.1
70.9 156.2 −0.45

171.2 −0.46
8 05.30 249.5 78.3
8 10 353.7 77.0
8 02 02
5 −1 07 70.7 155.3 −0.47
13 00 55. G. M. Time 5425. 5423

Feb 9. 1901.

Saturn Again

clouds

Left

Stopped by clouds

above obs made ~~through~~ some thin cloud but much care exercised so obs. considered very good.

8 25 After first group clouds became thicker so second group could not be taken

clouds

Pos ang 233.4

S/m. Wheel a = 9.7

" " B = 10.4

" " C = 11.2

Cloudy

Phot. β Persei W Obs

3 0 +40.3

6 18

3 18

8 45 clouds

9 05 Clouds ~~thick~~

9 06 Sky all thick in this region

Feb. 9, 1901.

B&C 1182	B 394
9 08 07.4	9 07 00

9 43 Clouds all thick; var not visible

9 50 Clouds thick no chance for
B Persei

Posted to here.

Feb. 10, 1901 (Sunday)

B&C 1182	B 394
21 11 36.8	21 10 0.0

Feb. 11, 1901 (Monday)

B&C 1182　　　B 394
6 13 30.9　　　6 12 0.0

R Pegasi.
23 03 +9.0
28 03
5 00

6 ~~4~~50　var = y
Region low, considerable
twilight est somewhat uncertain
star y follows var 7 sec 1.0 N.

High power used. both var and y
invisible in low power.
Sky a little hazy in region of Var.

Phot W　o Ceti　　W Ob
2　12　−36
4　34
2　22

Over

(Notation used in above estimate of R Pegasi
was that in black on Mr's faint chart; the black
notation, however, being the final notation.)

Feb. 11, 1901

o Ceti

L & A. Led. Plot.

120.7
7 11.5 208.4 85.7*
297.8 87.4*
25.2 173.1* −0.13

118.2 −0.14
207.2 89.0
301.7 83.8
25.5 172.8 −0.14
R & B Mean = −0.16
28.9
115.5 86.6
210.3 83.5
293.8 170.1 −0.19

29.8 −0.18
7 24.2 114.5 84.7
35.7 209.4 86.0
7 17.8 295.4 170.7 − 0.17
5 −1.5
12 16.3 Gr. M. Time
5427.511

Feb 11, 1901.

Same Again

R & B

29.0

7 26.4 115.3 86.3

209.5 86.0

295.5 172.3 − 0.14

29.8 −0.15

114.8 85.0

209.4 86.3

295.7 171.3 − 0.16

L & A Mean = − 0.16

300.6

25.6 85.0

120.4 85.6

206.0 170.6 − 0.18

299.8 − 0.16

7 33.4 25.8 86.0

59.8 120.0 86.1

7 29.9 206.1 172.1 − 0.15

5 − 1.5 Final Mean = − 0.16

12 28.4 $\frac{1}{2}$ M.T. C.S. = 9.19

5427.519 Magn = 9.03

Var. seems to look more red than common both to-night & last previous times of Obs.

Feb. 11, 1901

Phot T. SS Cygni wo Obs

21 34 +43.0
29 18
7 44

Left Led. Blot

1728 (var dis

7 5023 2524 79.6*

346.7 89.1*

75.8 168.7* -021*

167.1 -023*

5318 2574 85.3*

350.8 81.2*

72.0 166.5* -025*

Right Mean = -018*

73.4

58 10 1654 92.0*

2588 83.3*

342.1 175.3* -009*

79.1 -013*

8 00 40 1688 89.7*

23 01 2606 81.1*

7 55 45 341.7 170.8* -017*

5-1 31

12 54 14 Gr. M Time -

5427.5376*

Feb. 11, 1901.

Same Again

Right
76.6
8 02 20 168.4 91.8×
256.7 89.1×
345.8 180.9×
179.1× +0.02×

76.2
04 50 166.4 90.2× −0.07×
261.3 81.3×
342.6 171.5× −0.16×

Left mean = −0.17×
351.6
08 05 72.8 81.2×
169.1 83.4×
252.5 164.6× −0.29×

349.8 −0.27×
8 10 45 72.8 83.0×
26 00 170.0 83.5×
8 06 30 253.5 166.5× −0.25×
5 − 1 31 Final mean = −0.18
13 04 59 Gr. M. T. 8.90 = CS
5427. 5451 Pos. Ang. = 235.1 8.72 = magn
Sprocket wheel a = 9.7
" B = 10.5

Feb. 11, 1901.

Exam. of Region of w Obs.
R Arietis for ident.
of faint comp. Stars.

2 8 +24.4
6 28
4 20

S Cassiop w Obs
Fourteenth Magns.
1 10 +72.1
6 58
5 48

9 20 Too ~~cloudy~~ hazy for 14 ths.

Feb. 11, 1901.
Eros. Phot. J. Wr. Ro.

4 18 18 +20 49
22 6 20 26
3 48 −23

4 18 18✓ 20 49✓
38 −4
Eros. 55 = 4 18 56. +20 45
+20° 756 (8.6) = 4 18 36 +20 40
+20. +5

4 18 +22.5
7 13
2 55

22 8
3 8
7.22 S.T. Eros follows +20 756 (8.6) 13.1 secs & 5.0' n South

Comp ✱ = +20 760 (8.8)

over

Feb. 11, 1901.

Eros with 8.8

Ledgered

Above

9.4 < comp + dis.

9 56.4	52.4	43.0+	
	190.9	40.0×	
	230.9	83.0×	+ 2.11×
	13.0		+2.17×
	52.8	39.8×	
	191.9	40.0×	
	231.9	79.8×	+ 2.23×
	Below		mean = +2.14×
	281.1		
	324.3	43.2×	
	100.0	42.8×	
	142.8	86.0×	+ 2.02×
	282.4		+2.10×
10 10.2	322.4	40.0×	
126.6	101.9	40.3×	
10 03.3×	142.2	80.3×	+ 2.19×
5 -1.5			

15 01.8× G.M.Time

5427.626×

Feb 11, 1901   Posted.

Eros again

Below

~~282.1~~

1015.0 ~~321.5~~   ~~39.4~~

~~102.8~~   ~~40.1~~

~~142.9~~   ~~79.5 +~~

~~281.7~~

~~321.9~~   ~~40.1~~

~~102.3~~   ~~40.4~~

~~142.7~~   ~~80.5 +~~

above

192.0 haze thick.

23.

8.26 S.T. Eros now follows 20° 756 (8.6) by 22.4 secs & is 4.0 N of it.

Hence this is ~~true~~ Eros

Stopped by thick & increasing haze. Obs. ~~in~~ of first group troubled by var. haze + clouds i.e. First group retained but with not over 1/2 weight. Reject ~~=~~ the part of 2nd group taken

B & C 1182   B 394

21 09 13.0   21 08 00.0

Feb 12, 1901 (Tuesday)

B&G 1182	B 394
7 06 19.1	7 05 0.0

Phot T. SS' Cygni. w Obs

21 34 +43.0
28 58
7 24

21 34
29 09
7 35

7 27 Too cloudy for SS' Cygni.
no stars visible in this region

β Persei
3 00 +40.6
5 13
Phot T. 2 13 w Obs

6 in cap used.
see next page

Feb. 12, 1901

β Persei

I

Left
289.2 < var dis — Led. Plot.
7 45 54 313.1 — 23.9 x
111.4 — 19.0 x
130.4 — 42.9 x — 3.61 x

292.7 — - 3.60 x
49 56 311.8 — 19.1 x
108.4 — 24.1 x
132.5 — 43.2 x — 3.60 x

Right — mean = - 3.66 x
201.7
55 20 221.9 — 20.2 x
22.8 — 18.1 x
40.9 — 38.3 x — 3.86 x

202.8 — - 3.71 x
7 58 10 222.8 — 20.0 x
20 9 20 19.6 — 24.0 x
7 52 20 43.6 — 44.0 x - 3.56 x
5 - 1 19 ~~Sky~~ ~~Haze thick~~
M.T.
12 51 01 Sky more or less cloudy. clouds rather
5428.5354 thick in west, no stars visible there.
5425.7379 Cloud rather thin but somewhat
2.7975 homogeneous in this region
Ep. 1669

Feb 12, 1901

II

Clouds thicker.

Right.

202.2
8 04 43 221.7 19.5^x
21.6 20.8^x
42.4 40.3^x - 3.75^x

201.8 - 3.66^x
08 22 223.2 21.4^x
19.8 22.4^x
42.2 43.8^x - 357^x

Left Mean = - 3.59^x

110.8
13 31 133.3 22.5^x
290.1 22.2^x
312.3 44.7^x - 352^x

110.9 - 352^x
8 16 19 133.2 22.3
42 55 289.7 22.5^x
8 10 44^x 312.2 44.8^x - 352
5 -1 19
13 09 25^x Gr.M.T.
5428.5482^x
5425.7379
+ 28103^x
Ep. 1669^x

Feb. 12, 1901

III

Left
108.5
8 28 40 133.2 — 24.7$^{\times}$
290.0 — 23.2$^{\times}$
313.2 — 47.9$^{\times}$ — 3.37$^{\times}$

— 3.34$^{\times}$

110.0
31 49 134.0 — 24.0$^{\times}$
288.6 — 25.2$^{\times}$
313.8 — 49.2$^{\times}$ — 3.31$^{\times}$

Right — Mean = — 3.42$^{\times}$
21.8
36 12 43.6 — 21.8$^{\times}$
200.1 — 23.2$^{\times}$ — 3.51$^{\times}$
223.3 — 45.0$^{\times}$

— 3.50$^{\times}$

20.9
8 39 01 43.3 — 22.4$^{\times}$
13 54 22 201.5 — 23.0$^{\times}$
8 33 56$^{\times}$ 224.5 — 45.4$^{\times}$ — 3.49$^{\times}$
5 –1 ~~19~~ 20
13 32 ~~37~~ 36$^{\times}$ Gr. M. Time
5428.5643$^{\times}$
5425.7379
+2.8264$^{\times}$
Ep 1669

Feb. 12, 1901.

IV

Right

21.3

8 45 00 43.7 22.4✓

200.0 24.2✓

224.2 46.6✓ − 3.43✓

19.4 −3.38✓

47 30 44.7 25.3✓

201.0 23.5✓

224.5 48.8✓ −3.33✓

Left

Mean = −3.32✓

288.5 25.1✓

52 40 313.6 24.0✓

109.6 49.1✓ −3.31✓

133.6

289.3 −3.26✓

8 54 50 314.5 25.2✓

200 00 108.5 26.2✓

8 50 00 134.7 51.4✓ −3.21✓

5 − 1 20

13 48 20 Gr. M.T.

5428.5755✓

5425.7379

+2.8376✓

Ep. 1669✓

Feb 12, 1901

V

Left

288.0
9 11 28 314.3 26.3+
108.1 26.5+
134.6 52.8+ — 3.15+

287.8 — 3.12
14 02 314.7 26.9+
107.9 27.4+
135.3 54.3+ — 3.09+

Right Mean = — 3.13+

199.4
17 50 226.2 26.8+
18.5 26.6+
45.1 53.4+ — 3.12+

199.8 — 3.1~~4~~
9 20 05 225.6 25.8+
63 25 18.4 26.6
9 15 51 +45.~~1~~0 52.4 — 3.1~~4~~7
5 1 20
14 14 31+ 1/2 M.T.
5428.5934
5425.7379
+2.8555
Ep. 1669

Feb 12, 1901

VI

Right
199.6
9 26 25 225.7 26.1 x
19.2 26.6
45.8 52.7 − 3.15

199.0 − 3.14
29 42 226.1 27.1
19.4 25.8
45.2 52.9 − 3.14

Mean = − 3.12

Left
108.7
34 05 136.4 27.7
287.8 27.3
315.1 55.0 − 3.06 x

108.5 − 3.10 x
9 36 05 134.8 26.3
126 17 288.4 26.8
9 31 34 315.2 53.1 − 3.14 x
5 − 1 20 More troubled by clouds in above, last mec. group, images faint; especially in last half
14 30 14 ± Gr. M.T.
5428.6043
5425.7379
+ 2.8664 Ep. 1669 x

Feb. 12, 1901

Cloudy — VII.

Left

9 46 00 108.2

136.2 — 28.0 +

287.7 — 27.5 +

314.2 — 55.5 + — 3.04 +

107.9 — - 3.03 +

49 00 136.3 — 28.4 +

287.0 — 27.5 +

314.5 — 55.9 + — 3.02 +

Right — Mean = - 3.00 +

18.1

57 00 45.1 — 27.0 +

197.8 — 29.4 +

227.2 — 56.4 + — - 3.00 +

16.5 — - 2.97 +

9 59 50 45.6 — 29.1 +

211 50 197.8 — 28.7 +

9 52 58 [illegible] — 57.8 + — 2.94 +

5 - 1 20 226.5

14 51 38 + M.T. much troubled by Cls. in last group

5428.6191 + images faint

5428.6052

0.0139 Ep. 1670 +

Feb 12, 1901

VIII

Right

18.8

10 15 30 47.2 28.4+

198.1 27.3+

225.4 55.7+ - 303+

18.6 - 302+

19 07 47.2 28.6+

198.5 27.9+

226.4 56.5+ - 300+

Left Mean = - 300

285.1

24 00 317.1 32.0+

108.0 26.3+

134.3 58.3+ - 293+

288.4 - 298+

10 27 33 315.0 26.6+

86 10 1048 29.0+

10 21 32+ 1368 55.6+ - 303+

5 -1 20

15 20 12+ Gr. M. Time

5428.6390+

5428.6052

0.0338 Ep 1670

Feb. 12, 1900

IX

Left
286.4
10 32 44 316.0 29.6
108.7 25.5
134.2 55.1 − 3.05

288.7 − 3.03
36 12 313.4 26.7
106.0 29.4
135.4 56.1 − 301

Mean = − 3.06

Right
198.8
39 00 225.2 26.4
18.7 25.5
44.2 51.9 − 3.19

~~200.0~~ 198.6 − 3.08
10 44 30 226.9 28.3
32 26 17.2 28.7
10 38 06 45.9 ~~57.6~~ − 2.98
5 − 1 21 57.0
15 36 45 Gr. M. Time.
5428.6506
5428.6052
0.0454
Ep. 1670

Feb. 12, 1901.

X

Right
198.2
10 50 35 226.4   28.2 ×
18.5   25.8 ×
44.3   54.0 × − 3.18 ×

199.5   − 3.14 ×
10 53 00 224.9   25.4 ×
18.3   26.4 ×
44.7   51.8 × − 3.19 ×

Left   Mean = − 3.15 ×
107.8
10 58 30 136.0   28.2 ×
287.3   26.3 ×
313.6   54.6 × − 3.07 ×

108.8   − 3.16 ×
11 02 00 134.2   25.4 ×
24 05 288.7   24.8 ×
10 56 01 × 313.5   50.2 × − 3.26 ×
5 − 1 21   for avg. = 235.6
15 54 40 × Gr M.T.   Sprocket Wheel = B 4.5
5428.6630 ×   " " = C 5.6

11 07 Troubled more or less by during
5428.6052 evening.
+0.0578 × Observation made through more or
Ep. 1670 × less cloud. Sky sometimes more cloudy than clear

Feb. 12/1901 Posted.

but much care exercised obs considered good

	B. + C. 1182,			B. 394.	
11	34	21.0	11	33	0.0
	35	20.8		34	0.0
	37	20.4		36	0.0
21	14	26.1	21	13	0.0
21	15	26.0	21	14	0.0

Feb 13, 1901 Wednesday

B&C 1182	B 394
7 18 27.0	7 17 0.0
7 19 27.0	7 18 0.0

Phot W o Ceti w Obj
2 12 −3.6

abandoned for

Phot T SS Cygni w Obj

21 34 +43.0
29 14
7 40

see next page

Feb. 13 1901

SS Cygni.

Left — Plotted.

163.9 < van dis. — Lessened

7 38 00 25~~8~~9.3 — 95.4

341.9 — 98.7

80.6 — 194.1

165.9 + 0.27

162.2

42 00 260.6 — 98.4 — + 0.27

343.6 — 95.7

~~8~~79.3 — 194.1

Right — 165.9 + 0.27

71.8

49 54 173.9 — 102.1 Mean = + 0.42

2~~4~~51.8 — 102.0 — CS = 8.90

353.8 — 2041 — Magn = 9.32

155.9 + 0.46

65.5

7 53 46 17~~50~~4.0 — 108.5 — + 0.57

18 340 247.4 — 107.0

7 45 55 ~~352.8~~ — 215.5

5 - 1 27 354.4 — 144.5 + 0.68

12 44 28 Gr. M. Time — Pos. angle = 55.2

5 4 29.6 5 3 10 — 8 pinch wheel = 9.5 a

" " = 10.5 B

Seeing very bad; images very large & blurry and alternating in light rendering obs. difficult.

Feb 13, 1901.

S Cassiop w Obs

1 10 +72.1
6 10 Led. Plot Post.
5 00

As near as can be determined Est =
~~X x var var X y~~ 2 2

8 42 but est somewhat uncertain on
account of very bad seeing
Clouds now approaching region also

8 45 x 3, 1 y

R Draconis w Obs
16 26 +67.4
6 38
9 48
2 12

As near as can be determined
9 02 var about = to star p.
but est rather uncertain will
look at it another night clouds
coming near this region.

Feb. 1~~8~~3 1901.

4 1 Arietis = Double

Phot. W 2 44 +26.9 W Obs

6 58

4 14

2 44

7 18

4 34

Cloudy here.

Eros. Phot. T. W. obs.

4 25 54.✓ +20 3✓

29 36✓ 19 40✓

3 42 23.✓

4 25 54.✓ +20 3

+37.✓ −4.

Eros. 55 = 4 26 31.✓ +19 59.✓

+20° 777 (9.3) = 4 26 2✓ +20 2✓

+29. −3.

222

+19° 740 (7.5) 4 27 10. +19 40.

7 39

3 12 +19.7

9 57 Clouds thick impossible to get Eros (over)

Posted.

Feb. 13, 1901

Σ 1625 2wObs

12 10 +8.08
7 44
4 26
7 34

1001 Clouds thick no stars visible

Σ 1678 2wObs

12 39 +15.0
7 51
4 48
7 12

1007 clouds thick everywhere no stars visible no chance for anything further.

B&C 1182
21 16 32.5

B 394
21 15 00.0

Feb. 14. 1901. (Thursday)

B. + C. 11 A 2. B. 394.

6	47	42.0	6	46	0.0
	48	41.9		47	0.0

U Ceti

2 19 − 13.0
4 49
2 30

---

7 16 41.5 star ~~m~~ l
17 03.2 var

7 17 42.0 star ~~m~~ l
18 04.0 var
Star l is 3'.8 N of var.

---

7 20 49.8 Star m
21 03.5 var

7 21 14.2 Star m
21 27.7 var.
Star m is 1'.0 S of var

---

7 25 41.6 Star s
25 51.0 var

7
26 04.7 Star s
26 13.5 var
Star s is 7'.7 S of var

(over)

Feb. 14, 1901

a brighter ~~stars~~ star precedes s 2.5 sec
& 2'.5 S of it

U Ceti Cont.

~~7 28 06.0~~
clouds

~~7 2~~8~~9 06.0~~
clouds

~~7 29 41.0~~
clouds

~~7 30 18.5~~
~~30 32.5~~

7 30 44.8 S Var
30 59.0 Star s

~~31 19.3~~
Clouds

7 31 51.5 Var
32 05.5 Star s

7 32 27.1 Var
32 41.3 Star s

Star s is 3'.2 N of var.

Feb. 14, 1901

U. Ceti Cont

7	35	28.9	var
	35	39.0	Star q
7	35	53.0	var
	36	03.4	Star q

Star q is 7.6' N of var.

7	37	13.4	Star p.
	37	24.5	var
7	37	38.0	Star p
	37	49.5	var

Star p is 7.3' N of var

7	39	55.5	var
	40	29.5	Star o
7	40	47.5	var
	41	20.0	Star o
	41	56.0	var
	42	29.5	Star o
	42	46.5	var
	43	19.5	Star o

Star o is 17.0' N of var

Feb 14, 1901
U Ceti cont

7 46 47.8 . var
47 12.53 n

7 47 44.8 var
~~48~~ . n

7 48 24.1 var
48 48.6 n

7 49 03.0 var
49 27.5 n
Star n is 0'.7 N of var

7 50 51.1 var
51 05.5 Star n

51 18.0 var
51 32.0 Star n

Star n is 3.7 N of var.

R Urs. Min 2060b
16 36 +72.9
6 39
9 55
2 05

8 50 cloudy

Feb. 14, 1901
R Urs. Min.
16 34 +72.9
6 54
9 40
2 20
Too cloudy
~~Σ 21~~ 20 Obs
~~12 23 +26.6~~

Σ 1627 20 Obs
12 12 −3.2
7 02
5 10
6 50
Too low

Σ 1678 20 Obs
12 39 +15.1
7 04
5 35
6 25
Clouds thick no stars seen

~~Σ 1692 20~~

Σ 25'
13 09 +68.0
7 09
6 00
6 00 Over

Feb. 14, 1901.

Phot w ≤ 25' w Obs
S. fol. comp seems a little the brighter.

Pos. ang Dist Magns.
abandoned for
Eros. Phot. T. W. obs.

```
4 29 36.      +19 40
  33 24.      +19 18
---------     -------
  +3 48.          -22

4 29 36.         +19 40.
     38.              -4
---------------   ---------
Eros. 55 =       4 30 14.   +19 36.
+19° 750 (9.5) = 4 30 59.   +19 29
                 ---------  -------
                     -45.       +7.

4 27    +19.7
7 43
----
3 16                      228
                          ~~308~~
```

10 00 Clouds
10 05 Cloudy
10 10 clouds thick
10 15 Cloudy

8 37.5 Eros precedes +19°750 (9.5) 46 sec & is 5.'8 North

Posted -

Feb. 14, 1901

11 00 Sky too cloudy + hazy for Eros

omitted

by mistake.

Feb 15, 1901 (Friday)

B&C1182 B39C

7 03 59.3 7 02 00.0

7 04 59.2 7 03 00.0

7 05 Cloudy

7 30 Cloudy β Persei.

7 35 Pretty Cloudy wOb

Phot T.

3 2.4 x 06

5 32

2 30

7 45 Cloudy

8 00 Cloudy

8 10 Slightly clearer

See next page

6 in cap used

Feb. 15, 1901

I

Above & Left — Ledgered. Plotted

109.8
8 15 20 133.~~4~~5 — 23.7×
291.2 — 23.4×
314.6 — 47.1× — 3.40×

109.8 — − 3.37×
18 50 131.9 — 22.1×
287.8 — 26.4×
314.2 — 48.5× — 3.34×

Right & Below — Mean = − 3.39
~~1~~19.2
24 10 43.6 — 24.4×
201.4 — 22.5×
223.9 — 46.9× — 3.41×

20.9 — − 3.41×
8 27 16 43.5 — 22.6
8 5 36 200.0 — 24.3
8 21 24× 224.3 — 46.9× — 3.41×
5 −1 58
13 19 26× Gr. M. Time –
5431.5552×
5431.4728×
0.0824×

Feb. 15, 1901

II

R.+B-

	20.9		
8 37 24	43.8	22.9^{x}	
	201.4	20.8^{x}	
	222.2	43.7^{x}	− 3.57^{x}
			− 3.64^{x}
	23.2	19.6^{x}	
40 03	42.8 clouds	21.4^{x}	
	201.4	41.0^{x}	− 3.71^{x}
	222.8		

L+A

Mean = − 3.56^{x}

	289.4		
44 06	313.4	24.0^{x}	
	110.3	21.8^{x}	
	132.1	45.8^{x}	− 3.47^{x}
			− 3.49^{x}
	290.7		
8 47 51	312.1	21.4^{x}	
	110.0	23.6^{x}	
	133.6	45.0^{x}	− 3.51^{x}

169 24

8 42 21

5 − 1 58

13 40 23^{x} Gr. M. Time

5431.5697^{x}

5431.4728^{x}

0.0969^{x}

Feb. 15, 1901

III

Lθa
289.4
8 59 15 313.1 23.7
112.1 18.8
130.9 42.5 − 3.63

291.1 clouds − 3.66
9 04 07 310.7 19.6
110.5 22.0
132.5 41.6 − 3.62

Mean = −3.76

R&P
203.1
10 25 222.4 clouds 19.3
21.5 clouds 19.6
41.1 38.9 − 3.83

5 431.5875
5 431.4728
+ 0.1147

9 12 00 203.3 clouds thicker. − 3.86
9 13 28 221.5 clouds thicker. 18.2
~~26 15~~ 21.5 " thick. 19.5
~~9 06~~ 41.0 37.7 − 3.90
~~5 1~~ Much troubled by clouds in last group especially in last half and still
~~11~~
9 ~~1~~26 00 more especially in last set.
9 23 00 The times on the first, third & fourth
9.07 57 settings of last sett were assumed by
5-1 5-8
1405 59.9 m.T. proportioning the interval elapsed with reference to 2nd setting time as near as possible
5431.5875

(over)

the time of 2nd setting being accurately taken.

Feb 15, 1901

9 30 clouds thick

9 50 Slightly clearer

IV

10 02 clouds

R & B

10 06 00 20 ~~.2~~ 3.6

08 30 221.9 18.3

10 05 22.6 18.7

10 35 41.3 37.0 −3.94

11 13 202.6 −3.97

11 30 222.2 19.6

12 20 23.2 16.4

13 16 39.6 clouds 36.0 −4.00

L & a.

25 32 291.9 clouds Mean −4.04

26 15 310.1 clouds 18.2

27 55 113.6 15.7

28 40 129.3 33.9 −4.13

29 38 293.0 clouds −4.10

30 40 309.4 16.4

31 16 113.3 18.5

10 32 46 131.8 34.9 −4.07

Reject above group troubled continually by clouds images constantly varying radically & impossible to make satisfactory settings

Images at times alternately disappearing & appear at times not visible

Feb. 15, 1901

IV

L & a.

290.7
10 37 34 ~~309~~ 310.3 19.6×
111.8 19.3×
131.1 38.9× — 3.83×

— 3.82×

291.7
40 40 310.8 19.1×
111.3 20.3×
131.6 39.4× — 3.80×

R & B

202.2 Clouds Mean = −3.95×
44 40 220.1 17.9×
23.6 16.7×
40.3 34.6× — 4.09×

— 4.08×

204.4
10 47 12 221.0 16.6×
170 06 23.0 Clouds 18.3×
10 42 32 41.3 34.9× — 4.07×
5 −1 57
13 40 35 G.M.T. Pos. Ang = 55.5
5431.6532× Sp. Wheel A
5431.47728× " " = B = 4.5
+ 0.1804× " " = C = 5.6

Greatly troubled throughout evening by clouds during first & sec. groups sky rather the clear at third group more or less

Posted.

Feb. 15, 1901

Cloudy & troubled somewhat in last by clouds

B&C 1182	B 394
21 16 50.7	21 15 0.0

Feb 16, 1901 (Saturday)

BGC 1182 B 394

7 12 55.7 7 11 0.0

7 15 cloudy

7 30 "

7 45 "

8 00 "

o Ceti w Ok

2 12 − 3.6

6 05

3 53

Too cloudy

ε 919 w Ok

6 23 − 69

6 13

0 10

o Ceti w Ok

2 12 − 3 6

6 24

4 12

8 30 Too cloudy in this region.

Feb. 16, 1901

Σ 1224 ν Cancri.

8 19 +24.9 ν Ob

6 33

1 46

10 14

8 40 Impossible to get double
clouds also growing thicker.

✗ Posted to here

Feb. 17, 1901 (Sunday)

B0 C 1182
21 12 08.1

B 394
21 1000

Feb 18, 1901 (Monday)

B&C 1182 — B 39X
7 05 11.6 — 7 03 00
7 06 11.5 — 7 04 00

w Obs — B Persei — Phot T.

3 02 +4 0.6
5 22
2 20

I

L & a. 6 in cap used
291.8 < var dis.

Ledgered
Plotted

7 31 55 311.0 — 19.2x
112.5 — 18.7x
131.2 — 37.9x − 3.89x
294.5

Clouds.

35 00 310.8 — 16.3x — −3.92x
112.1 — 20.3x
132.4 — 36.6x − 3.96x
R & B.

Mean = −3.94x

201.3
41 30 219.6 — 18.3x
24.3 — 18.0x
42.3 — 36.3x − 3.98x

201.9 — −3.95x
7 44 16 219.6 — 17.7
15 2 41 23.6 — 19.6
7 38 10 ~~42.7~~ — 37.3 — −3.92
5 −2 12 43.2 — 5434.5250x
12 35 58x G.M. Time − 5434.3403x
+0.1847x

Feb. 18, 1901

II

R&B.
203.0
7 56 30 220.0 17.0 ✕
24.9 16.4 ✕
41.3 33.4 ✕ — 4.17 ✕

−4.12 ✕

203.2
5 9 30 219.3 16.1 ✕
23.1 19.0 ✕
42.1 35.1 ✕ — 4.06 ✕

Mean = −4.15

L&A.
113.1
8 03 05 130.3 17.2 ✕
293.9 15.7 ✕ Clouds.
309.6 32.9 ✕ — 4.20 ✕

−4.18 ✕

114.1
8 06 05 129.6 15.5 ✕
24 5 10 291.8 18.0 ✕
8 01 18 309.8 33.5 ✕ — 4.16
5 − 2 12
12 59 06 G.M.T.
5 43 45 411
54 34.3403
+ 0 2008

Feb. 18, 1901

	L + a.		III
	113.6		
8 15 45	130.8	17.2^{x}	
	293.6	16.6^{x}	
	310.2	33.8^{x}	−4.14^{x}
	113.5		−4.12^{x}
17 30	130.6	17.1^{x}	
	292.~~8~~5	17.4^{x}	
	309.9	34.5^{x}	−4.09^{x}
	R + B		Mean = −4.12
	23.1		
20 10	42.4	19.3^{x}	
	203.7	15.8^{x}	
	219.5	35.1^{x}	−4.06^{x}
	24.6		−4.11$^{\alpha}$
8 23 10	40.1	15.5$^{\alpha}$	
7 6 35	203.3	18.0^{x}	
8 19 09	221.3	33.5^{x}	−4.16^{x}

5 − 2 12

13 16 57 Gr. Mt.

54434.5535

54434.3603

+ 6 21 32

Feb. 18, 1901

IV

R&B.

23.5

8 27 20 40.~~7~~5 17.0

204.6 16.1

220.7 33.1 −4.19

23.2 −4.14

40.6 17.4

203.3 17.2

30 45 220.5 34.6 − 4.09

L&A Mean = −4.11

290.6

36 00 310.0 19.4

114.7 15.5

130.2 34.9 −4.07

293.5 −4.08

8 38 25 310.0 16.5

132 30 113.2 18.0

8 33 08 131.2 34.5 −4.10

5 −2 12

13 30 56 Gr. M.T.

5434.5631

5434.3403

+0.2228

1901phae.proj..546M

Feb. 18, 1901

V

L & a

293.6

8 48 35 309.8 16.2

113.5 16.6

130.1 32.8 — 4.21

292.4 — 4.12

52 00 309.8 17.4

113.4 18.1

131.5 35.5 — 4.03

R Below

Mean — 4.13

~~204.~~ 204.5

55 35 221.5 17.0

23.5 17.4

40.9 34.4 — 4.10

204.5 — 4.14

8 57 30 221.4 16.9

2 13 40 23.3 16.5

8 53 25 ~~40.0~~ 33.4 — 4.14

5 — 2 12 39.8

13 51 13½ M.T.

5434.5772

5434.3603

+0.2369

Feb. 18/1901

VI

R+B

203.3

9 09 00 220.0 16.7ˣ

23.3 17.7ˣ

41.0 34.4ˣ −4.10ˣ

−4.12ˣ

2038

1105 221.3 17.5ˣ

23.5 16.5ˣ

40.0 34.0ˣ − 4.13ˣ

L+A mean = −4.09

113.2

1500 131.4 18.2ˣ

291.9 17.6ˣ

309.5 35.8ˣ − 4.01ˣ

−4.06ˣ

114.0

9 17 20 130.6 16.6ˣ

5 2 25 291.8 17.6

9 13 06 309.4 34.2 − 4.11ˣ

5 − 2 12

1410 54 G.M.T. Pos. angle = 236.6

Sp. Wheel = B 4.5

54 34.5909ˣ " " = C 5.6

5434.3403ˣ

+0.2506ˣ

Feb. 18, 1901

Eros. Phot. T. W. obs.

Phot T.

4 44 36. +18 11
48 18. +17 50
+3 42 21

4 44 36.✓ +18 11✓
+37. −4
Eros. 55 = 4 45 13. +18 7
+18° 754 (9.0) = 4 46 43. +18 12
−1 30. −5

4 43 +18.6
7 57
3 14

222
37.

8:14 ST. Eros precedes +18° 754 (9.0) $1^m 37^s.8$ 5'.1 S of it

8:16 ST. Eros follows preceding Star of small faint triangle 17.3 Secs & is 0'.5 N of it

Comp Star = +18° 754 (9.0)

Feb. 18, 1901
Eros with (9.0)

~~Left~~

275.1 < * dis
10 35.6 327.6 52.5
95.8 51.8
147.6 104.3 +1.55

274.6 +1.58
327.1 52.5
97.4 49.9
147.3 102.4 +1.60
Right clouds
188.6 +1.80
233.8 45.2
8.7 42.3
51.0 clouds 87.5 +1.98

190.1 +2.03
11 01.6 234.2 44.1
10.9 40.0
50.9 84.1 +208

Feb. 18, 1901

Eros again

Right Clouds thick

192.4   11.9   13.5
~~11 04.4~~   231.9 → 51.2 → 48.7   35.2
11 16.0   19.2   195.2   193.8   358
5.   229.6   229.6   71.0   +2.47

+2.48

~~15.0~~   12.7
2 .   49.1   36.4
.   195.4   33.9
.   229.3   70.3   2 50

Left

+2 50

285.0
319.2   34.2
103.6   35.5
139.1   69.7   +2 52

283.8   +2 51
11 22.4   319.1   35.3
104.5   34.9
139.4   70.2   +250

Reject previous observations of Eros. Settings very uncertain and unsatisfactory. Eros and comparison star varying rapidly alternately and alternately and completely disappearing. Settings wholly uncertain.

Feb. 18, 1901 Posted

Eros again

Left

~~284.2~~

~~11 25.4 31~~

B&C 1182	B 394
21 53 17.7	21 51 0.0
21 54 17.7	21 52 0.0

Feb 19, 1901 (Tuesday)

BDC 1182 B 394
7 07 09.5 7 04 00
7 08 09.5 7 05 00

R Piscium w O b

1 16 + 1.0
5 26
4 10

1 10 + 2.9
5 30
4 20

~~Star y follows the var. 4 secs + 5.4 S of it~~ star h
~~" x " " " h 12 " & 5.1 S of it.~~

3 follows var 24 secs & 1.0 N of it
3 precedes ℓ 11 secs + 0.5 N of it

α fols. correct x 6 secs + about 1.5 N of it.
y prec. var 12 secs + 3.0 N of it.
correct y follows ℓ 28.5 Secs & 11.0 S of it.

Phot W o Ceti w O b
2 12 − 3.6
6 17
4 05

Feb. 19, 1901
o Ceti.

L+a. Plotted
Ledgered

301.9 < var dis
8 13.6 22.8 ~~7~~80.9
120.6 84.3
204.9 165.2 -028

301.4 —0.26
26.2 84.8
121.4 82.2
203.6 167.0 —0.25

RMB
210.2 mean = -0.22
295.2 85.0
31.2 84.9
116.1 169.9 -0.19

210.0 -0.18
8 21.6 296.1 86.1
8 17.6 30.7 84.6
5 - 3.2 115.3 170.7 -0.17
13 14.4 Gr. M. Time.
5435.551

Feb. 19, 1901
O ceti again.

ROB
211.6
8 24.0 295.0 83.4^{x}
28.3 84.1^{x}
112.4 167.5^{x} — 0.24^{x}

211.5 — 0.20^{x}
295.2 83.7^{x}
29.2 87.7^{x}
116.9 171.4^{x} — 0.16^{+}

L&a Mean = — 0.22^{x}
119.0
202.1 83.1^{x}
303.1 83.5^{-x}
26.6 166.6^{x} — 0.25^{x}

119.6 — 0.24^{x}
8 31.4 203.9 84.3^{x}
55.4 302.3 83.4^{x}
8 27.7^{x} 25.~~8~~7 167.7^{x} — 0.23^{x}
5 — 2.2
13 24.5^{+} G.M.T.
5035.558^{x}

Final mean - 0.22
- C.S. = 9.19
magn = 8.97

Feb. 19. 1901.

Eros. Phot. T. W. As.

4 48 18. +17 50.
52 6 17 28
+3 48. -22

4 48 18. +17 50.
38. -4
Eros. 551 = 4 48 56. +17 46.
+17° 814 (9.2) = 4 48 5. +17 47.
~~9.~~ -1.
+51.

4 49 +16.9
7 09
2 20

228
38

7 21 ST Eros follows +17° 814 (9.2) 38 secs & 0.1 S of it

7 23 ST Eros fols faint Star 9.5 secs only slightly S. of it

~~2 m 15~~

Comp Star = +17° 820 (8.9)

Feb. 19, 1901
Error with (8.9)

R+A.   Ledgerd
185.9   < comp * dis.
9 41.0   239.0   53.1 x
7.0   48.0 x
55.0   101.1 x + 1.63 x

187.2   + 1.62 x
237.4   50.2 x
5.3   51.5 x
56.8   101.7 x + 1.61 x

L&B.   Mean = + 1.54
94.5
150.6   56.1 x
274.7   53.4 x
328.1   109.5 x + 1.43 x

95.4   + 1.46 x
9 54.4   147.6   52.2 x
95.4   274.3   54.2 x
9 47.7 x   328.5   106.4 x + 1.50 x
5 - 3.2
14 44.57 Gr. M. Time.
5435.614

Feb. 19, 1901.
Eros again

L & B
948
9 58.5 149.0 54.2 ×
274.9 52.1 ×
327.0 106.3 × + 1.50 ×

95.0 + 1.50 ×
147.6 52.6 ×
273.8 53.6 ×
327.4 106.2 × + 1.51 ×

R & above Mean = + 1.59
7.5
56.5 49.0 ×
187.3 49.3 ×
236.6 98.3 × + 1.70 ×

+ 1.68

7.2
→ 56.7 495 [illegible]
10 04.0 187.4 499 ~~[illegible]~~
1225 237.83 99.4 ~~[illegible]~~ + 167
10 01.2
5 - 3.2
~~14~~ 58.0 ½ m. T. Final Mean = + 1.56 ×
8 30 S.T. Eros now fols. ft. star 20 secs & 1.0 S of it.
5 6 35.624 ×

Feb. 19, 1901

Phot T. R Urs min. w Obs
16 34 +72.9 ~~P~~
8 38
7 56
4 04

	L&A.		Plotted.
	1.1	<comp * dis.	Ledgered
10 39.0	62.2	61.1 ×	
	179.9	62.9 ×	
	242.8	124.0 ×	+1.11 ×
	359.5		
	63.1	63.6 ×	+1.11 ×
	180.5	60.1 ×	
	240.6	123.7 ×	+1.11 ×
	R&B		Mean = +1.02 ×
	269.1		
	332.9	63.8 ×	
	86.8	69.1 ×	
	155.9	132.9 ×	+0.92 ×
	268.8		+0.94 ×
10 49.4	334.8	66.0 ×	
10 44.2	89.6	64.9 ×	
5 -3.2	154.5	130.9 ×	+ 0.96 ×

15 41.0 Gr. M.T.
5435.653+

Feb 19, 1901 ~~Posted~~

R Urs Min Again

R+B
269.5
10 52.4 334.2 64.7
87.4 66.2
153.6 130.9 + 0.96

268.2 + 0.94
334.6 66.4
87.4 66.8
154.2 133.2 + 0.97

L+a. Mean = +1.02
181.4
241.7 60.3
359.6 64.0
63.6 124.3 + 1.10

180.1 + 1.10
11 03.6 242.2 62.1
~~3~~0.5 62.0
10 58.0 62.5 124.1 +1.10
5 -3.2
Pos Avg. = 228.2 Final M = +1.02
15 54.8 Gr.M.T. Sm. Wheel = 95 B
5435.663 " = 86 a

B & C 1182 B 39 K
21 17 41.1 21 14 00
21 18 41.1 21 15 00

Posted - Feb. 20, 1901 (Wednesday)

B & C 1182	B 394
21 15 02.8	21 11 0.0
21 17 02.8	21 13 0.0

Feb. 21, 1901 (Thursday)

BDC 1182 B 394
6 51 13.5 6 47 0.0
6 52 13.5 6 48 0.0

U Ceti w Ob.

Star e in old not comp with h in final notation

Phot T. w Ob.

L & a

75.9 e dis

7 29.0 170.1 94.2 ✓
258.8 86.2 ✓
345.0 180.4 ✓
~~80.0~~ 79.2 179.6 ✓ + 0.01 ✓
163.9
254.4 84.7 ✓ ~~90.5~~ 0.00 ✓
348.9 94.5 ✓
R + B 179.2 ✓ − 0.02 ✓
344.9 mean = −0.08 ✓
78.0 93.1 ✓
172.2 81.4 ✓
253.6 174.5 ✓ − 0.10 ✓

350.4 − 0.14 ✓
7 38.0 72.8 82.4 ✓
67.0 168.8 86.8 ✓
7 33.5 255.6 169.2 ✓ − 0.2 ×
5 4.2
12 29.3 Gr. M. T.
5437.520 ×

Feb. 21, 1901.

Same Again.

R & B.
346.9
7 40.0 76.5 89.6 ✓
172.4 81.2 ✓
253.6 170.8 ✓ - 0.17 ✓

351.4 - 0.17 ✓
71.9 80.5 ✓
167.2 90.5 ✓
257.7 171.0 ✓ - 0.17 ✓

L & A. Mean = - 0.08 ✓
253.9
348.3 94.4 ✓
78.0 86.2 ✓
164.2 180.6 ✓
179.4 + 0.01 ✓

258.4
7 50.0 345.8 87.4 ✓ 0.00 ✓
7 45.0 75.3 92.2 ✓
5 - 4.2 167.5 179.6 ✓ - 0.01 ✓
12 40.8^x G. M. Time.
5437.528^d

Feb. 21, 1901

Phot T. Vesta w Obs

8 45 +24.8
6 55
~~+0~~
1 50
10 10

8 54 +25.0
6 40
2 14
9 46

8 46 Vesta fols +24° 1999 (8.0) 1^m 37 secs & 2.7' S of it.

Comp ★ = +24°, 199$\overset{9}{1}$ (8.0)

7.5 in cap used on Vesta

(over)

8 54 +25.0
7 15
1 39
10 21

♃ Feb. 21, 1901
Vesta with 8.0

Above Ledgered
187.2
9 & 13.0 236.9 < Vesta dis 49.7
8.9 44.1
53.0 93.8 − 1.81

190.9 − 1.86
232.7 41.8
5.4 48.4
53.8 90.2 − 191

Below Mean = − 1.77
96.2
146.4 50.2
278.4 48.1
326.5 98.3 − 1.70

98.4 − 1.68
9 25.0 145.6 47.2
38.0 277.4 52.6
9 19.0 330.0 99.8 − 166
5 − 4.2
14 14.8 Gr. M. Time −
5437.594

Feb. 21, 1901

Vesta Again

Below

96.1
9 26.6 146.9 50.8 x
280.3 46.4 x
326.7 97.2 x — 1.73 x

98.3 — 1.72 x
146.0 47.7 x
277.8 49.7 x
327.5 97.4 x — 1.72 x

Above Mean = — 1.84 x

7.2
55.2 48.0 x
~~189~~ 190.6 41.5 x
232.1 89.5 x — 1.93 x

10.2 — 1.95 x
9 41.0 53.6 43.4 x
67.6 190.4 44.4 x
9 33.8 234.8 87.8 x — 1.97 x
5 — 4.2
14 29.6 Gr. M. Time. Final Mean = — 1.80 x

5437.604

Feb 21, 1901

S Orionis w Obs.

5 25 - 4.8
8 25
3 00

Prelim Selection of 14th Magns. Stand.

1) folls. var 28 secs & 4'.6 N of it.
2) " " 28.5 " & 0.3 N of it.
10 40 3) " " 38.5 " & 6.0 N of it
4) " " 40 " & 7.7 S of it.
5) " " 1m 17.5 " & 2'.1 N of it
as possible alternatives
1) prec var 12.5 secs & 2'.2 N of it
2) folls " 1m 20.5 secs & 2'.2 S of it.

v Tauri. w Obs

Prov. Sel. of 14th Magn Stands.

4 43 +18.6
9 05
4 17

1) follows var 31 secs & is 4'.8 S of it
2) " " 35 " & " 4'.~~7~~6 N " "
11 15 3) " " 22 " & " 7'.5 S " "
4) " " 1m 3 " & ~~1.5 S~~ " 1.5 S of it
5) " " 40 " & " 4'.5 S of it

6) " " 1m 30 " & 2'.3 S of it
as poss alt. for no 1.

Feb. 22, 1901. (Friday)

New. Star. disc. by Anderson.
Phot. T. Vr. obs.
Discovered by Anderson Feb. 21. 1901.
3 24 +43.6
7 0
7 3 36

New star discovered by Anderson in the Constellation Perseus. Ledgered

~~119.5~~ 120.3
~~125.0~~ 4.3✓×
8 55 50. 124.6 8h 55m 50s
~~299.4~~ 4.6✓×
304.0 4.9✓× 7.0✓✓×

119.7 4.2✓× (7.02✓)×
8 59 10. 123.9 59 10
298.8 4.9✓×
303.7 9.1✓× 7.00✓×

30.4
9 3 30. 35.9 5.5✓× 9 3 30
209.7 4.4✓×
214.1 9.9✓× 6.82✓×

Feb. 22. 1901.

(6.79)

29.7 √.0 ✓× h m s

9 6 45 — 34.7 9 6 45

9 1 19 — 209.8

0 0 — ~~214.9~~ √.2 ✓×

14 1 19. — 215.0 10.2 ✓× 6.76 ✓ mean 6.90

−5.0 corr. to watch.

14 0 29 Gr. m.t.

5438.584×

29.1

9 10 28 — 34.0 } mean 34.7 } 10 28

√.3 ✓

210.0 √.0 ✓

215.0 10.3 ✓ 6.74 ✓

(6.70)

29.0 √.0 ✓

9 13 40. — 34.0 13 40

210.0 √.6 ✓

215.6 10.6 ✓ 6.67 ✓

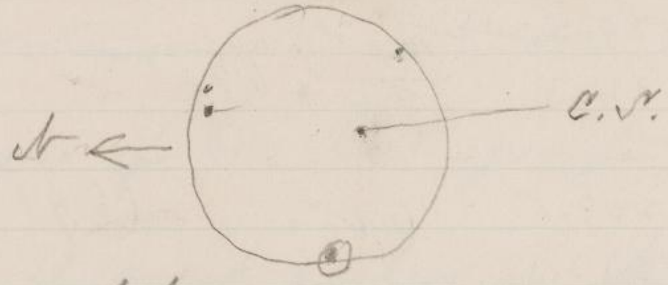
29.

Mr. Bailey's watch used above was 50 secs. fast.

Stopped by clouds.

Feb. 22, 1901.
disc. by Anderson, T.

New Star, Phot. Vr. obs.
3 24 +43.6
9 50
+6 26



Mr. Colgue's watch, used in the two groups below, was 41 secs. slow.

12 01 52 ~~119.5~~
~~124.0~~
~~299.0~~

Ledgered.

~~298.9~~
12 07 14 298.9 4.9 ✓×
09 20
~~08~~ ~~40~~ 303.8
12 08 17 118.9 5.1 ✓× 6.80 ✓×
124.0 10.0 ✓×

(6.74 ×✓)

298.5 5.4 ✓×
10 54 303.9
118.8 5.2 ✓× 6.67 ×✓
124.0 10.6 ✓×

Feb. 22, 1901.

210.3

~~12 18 16~~

~~29.2~~

209.4 4.4 ✓ ×
21 25 213.8
29.5 4.8 ✓ ×
34.3 9.2 ✓ × 6.98 ✓ ×

208.5 4.6 ✓ × (6.91 × ✓)
24 10 213.1
6.24 46 30.1 5.2 ✓ ×
12 16 12 35.3 9.8 ✓ × 6.84 ✓ ×
5 + 41 mean 6.82 ✓ ×
17 16 53 G. M. T.
5438.720 × 208.6 4.4 ✓ ×
27 10 213.0
29.9 5.0 ✓ ×
34.9 9.4 ✓ × 6.93 ✓ ×

208.9 5.1 ✓ × (6.93 × ✓)
30 25 214.0 4.3 ✓ ×
29.9 9.4 ✓ × 6.93 ✓ ×
34.22

119.2 4.9 ✓ ×
34 05 124.1
299.2 4.9 ✓ ×
304.1 9.8 ✓ × 6.84 ✓ ×

Feb. 22. 1901.

(6.88)

119.3 4.6

38 35 123.9

13,0 15 298.0 4.9

12 32 34 302.9 4.9

5 ~~4~~ 4 41 9.5 6.91

17 33 15 Gr. M. Time — mean 6.90

5438.731

Mean of two last groups — 6.86 magn.

Value of group earlier in the evening was — 6.90 This first group was observed through some cloud.
For last groups the sky was ~~pretty~~ clear.

New Star (1901) = 3 24 24. +43° 34'
-3 7. -10.
" " (1855) = 3 21 17. +43 24.

Comp. Star used above was probably D.M. +43° 732 (7.5)

Feb. 24, 1901 Sunday

Reset & wound B & C 1182

B&C 1182 B 394

6 02 37.2 6 03 0.0

Nova in Perseus

Phot T. w Obs.

3 24 + 43.6

4 39

1 15

6 25 Capella 4 Nova, Nova 4 α Tauri, w Obs.

6 25

3 24 + 43.6

5 17

1 5.3

see next page

Feb. 24, 1901

Nova Persei
7 in cap used

L & a. Ledgends
299.1 Nova dis
7 06.0 304.4 5.3*
119.0 5.5*
124.5 10.8* − 6.63*

− 6.67*
298.8
304.3 5.5*
119.1 4.9*
124.0 10.4* − 6.71*
K & B Mean = 6.68

208.7
214.0 5.3*
29.6 5.4*
35.0 10.7* − 6.65*

− 6.70*
209.3
7 19.4 214.4 5.1*
25.4 29.6 5.2*
7 11.7 34.8 10.3* − 6.74*
5 + .4
12 12.1 Gr. M. T.
5440.508

Feb 24, 1901

Nova Again

R&B. Twincap used.

208.9
7 24.0 214.2 5.3 x
29.8 5.0 x
34.8 10.3 x — 6.74 x

209.3 – 6.76 x
214.4 5.1 x
29.6 5.0 x
34.6 10.1 x — 6.78 x

L&a Mean = – 6.65 x

119.4
124.4 5.0 x
298.1 6.2 x
304.~~4~~3 11.2 x — 6.55 x

118.6 – 6.54 x
7 36.0 124.2 5.6 x
7 30.0 298.8 5.7 x
5 + .4 304.5 11.3 x — 6.53 x
12 30.4 x Gr. M. T. Final Mean = – 6.66 x
5440.521 x

Feb 24, 1901

Vesta, Phot. J. Sr. obs.

8 48 5. +24 37 18.
8 45 38. 24 50 6
−2 27. +12 48.

8 43 39. +24 51
+1 37 −3
8 45 16. +24 48.
−2 27. +13
Vesta (55) = 8 42 49. +25 1
+24° 1999 (8.0) 43 39. +24 51
−50. +10

8 54 +25.0
6 29
2 25
9 35

8 5

8 54
6 51
2 3
9 57

7 02 S.T Vesta precedes +24° 1999 (8.0) 48 secs & is 10' N of it

OVER

7 in cap used

Feb. 24, 1901

Vesta with 1999 (8.0)

Left
CS = +24° 1999 (8.0)

96.4 ← Vesta dis Ledgered

8 43.0 146.8 50.4 x

278.6 43.4 x

322.0 93.8 x − 1.81 x

− 1.79 x

99.1

144.3 45.~~4~~2 x

276.9 50.1 x

327.0 95.3 x − 1.77 x

Right
Mean = − 1.88 x

82

55.8 47.6 x

192.6 39.4 x

232.0 87.0 x − 2.00 x

− 1.98 x

10.5

8 58.0 53.5 43.0 x

101.0 190.1 45.1 x

8 50.5 235.2 88.1 x − 1.96 x

5 + .4

13 50.9 Gr. M. Time.

54400.577

Feb 24, 1901

Same Again

Right — C5^{h}+24° 1999 (80)

8.5
9 03.0 — 55.8 — 47.3x
190.9 — 41.2x
232.1 — 88.5x — 1.95x

11.5
53.3 — 41.8x — 1.98x
189.8 — 45.0x
234.8 — 86.8x — 2.00x

Left — Mean = - 1.94x

279.1
325.3 — 46.2x
98.3 — 44.5x
142.8 — 90.7x — 1.90x

278.7 — 189x
9 21.0 — 322.8 — 44.1x
24.0 — 98.6 — 47.3x
9 12.0x — 145.9 — 91.4x — 188x
5 4.4 — Final Mean = -1.91
14 12.4x ½ m T.
54x0.5 92x

Feb 24 1901

Vesta with 8.8

Above — C.S. = +25° 1997 (AG)

Ledgered

193.6

9 27.0 229.7 — 36.1

14.7 — 33.3

48.0 — 69.4 − 2.53

−2.56

193.8

227.7 — 33.9

15.1 — 33.7

48.8 — 67.6 − 2.59

Below — Mean = − 2.46

102.7

141.9 — 39.2

283.7 — 36.2

319.9 — 75.4 − 2.33

−2.36

104.7

9 37.0 141.9 — 37.2

9 32.0 282.8 — 36.0

5 +.4 318.8 — 73.2 − 2.40

14 32.4 Gr M T.

5440.606

Feb 24, 1901 Posted

Same Again.

C δ = +25°.1997 (8.8)

Below

103.9
9 48.0 141.8 37.9
284.0 35.0
319.0 72.9 − 2.41

104.2 −2.40
141.6 37.4
283.9 36.0
319.9 73.4 −2.40

Above

Mean = −2.47

12.6
49.0 36.4
194.7 33.1
227.8 69.5 − 2.52

14.9 −2.54
9 50.0 48.8 33.9
9 5.0 194.5 34.8
9 47.5 ~~228.8~~ 68.7 −2.55
5 4.4 229.3 Final Mean = −2.46
14 47.9 Gr. M.T.
5440.617 Comp. Stars used with Vesta = +26° 1999 (8.0)
" " " " " = +25° 1997 (8.8)

Feb 25, 1901 (Monday)

BD 1182   B 394
6 52 31.0   6 53 00.0
Vesta   w Obs
Phot T.   8 54 +25.0
5 37
3 17
8 43

7 12 08.8 Vesta   1 37.0
7 13 39.8 (8.0)
Vesta precedes $1^m 31^s$ + 14.0′ N of it

7 14 21.8 8.8   0 23.7
7 14 45.5 Vesta
8.8 is 4.0′ N of Vesta

Vesta comp with 8.0

see next page

too cloudy to use cap

Feb 25, 1901
Full aperture

~~Left~~ Vesta

277.9
7 31.0 ~~325.1~~
~~100.6~~
~~145.4~~

~~276.9~~
~~322.7~~ Impossible to make
100.2 equalizations.
144.7

Too cloudy to continue on
~~Right~~ Vesta.
Reject above settings
Nova Persei. W Obs.
3 24 +43.6
6 26
3 02
Phot. Full aperture used.

(over)

Feb. 25, 1901

Phot. Nova Persei w Obs.

	Left	Ledgered
	118.8	
7 55.0	125.5	6.7 $^{\times}$
	298.0	6.2 $^{\times}$
	304.2	12.9 $^{\times}$ – 6.25 $^{\times}$
	118.8	– 6.23 $^{\times}$
	125.0	6.2 $^{\times}$
	297.3	6.9 $^{\times}$
	304.2	13.1 $^{\times}$ – 6.21 $^{\times}$
	Right	mean = – 6.17 $^{\times}$
	28.4	
	35.7	7.3 $^{\times}$
	209.5	7.1 $^{\times}$
	216.6	14.4 $^{\times}$ – 6.01 $^{\times}$
	28.2	– 6.11 $^{\times}$
8 07.0	35.~~7~~3	7.~~0~~1 $^{\times}$
8 01.0 $^{\times}$	209.9	6.0 $^{\times}$
5 +0.5	215.9	13.1 $^{\times}$ – 6.21 $^{\times}$

13 1.5 $^{\times}$ Gr. m. Time

5441.542 $^{\times}$

Feb. 25, 1901

Same Again.

Right

28.3

δ 13.0 35.1 6.8^{x}

209.3 6.7^{x}

216.0 13.5^{x} — 6.15^{x}

28.1 — 6.18^{x}

35.2 7.1^{x}

~~209.8~~ 209.9 6.1^{x}

216.0 13.2^{x} — 6.20^{x}

Left Mean = -6.23^{x}

296.7

303.5 6.8^{x}

118.8 6.2^{x}

125.0 13.0^{x} — 6.23^{x}

297.4 — 6.28^{x}

δ 27.0 303.4 6.0^{x}

δ 20.0ˣ 119.1 6.4^{x}

δ +0.5 125.5 12.4^{x} — 6.33

13 20.5^{x} G.m.T. The above obs. with full aperture

5441.556ˣ & with difficulty through clouds.

Stars varying more or less throughout.

relatively. Final Mean = -6.20^{x}

Feb. 25, 1901

Nova with 7 in cap.

Left

118.5 Ledgered

8 47.0 125.6 7.1 × ~~Lo~~

297.~~4~~5 6.6 ×

304.1 13.7 × − 6.11 ×

118.3 − 6.10 ×

124.9 6.6 ×

296.9 7.2 ×

30~~4~~1 13.8 × − 6.10 ×

Right Mean = − 6.12 ×

28.8

35.8 7.0 ×

209.3 6.1 ×

215.4 13.1 × − 6.21 ×

29.0 − 6.14 ×

8 57.0 35.7 6.7 ×

8 52.0 × 208.5 7.3 ×

5 + 0.5 215.8 14.0 × − 6.07 ×

13 52.5 × G. M. T.

5441.578 ×

Feb. 25, 1901

Same with 7 in cap.

Right
28.4
8 58.6 35.1 6.7 x
210.0 5.9 x
215.9 12.6 x — 6.30 x

28.1 — 6.24 x
34.6 6.5 x
209.3 6.8 x
216.1 13.3 x — 6.18 x

Left Mean :- 6.20 x
296.6
304.0 7.4 x
118.5 6.3 x
124.8 13.7 x — 6.11 x

297.9 — 6.16
908.6, 304.1 6.2 x
127.2 x 118.5 7.0 x
9 03.6
5 +0.5 125.5 13.2 x — 6.20
14 4.1 ½ m.t. Meas. made through some rather thin cloud: Sky a part of the time rather clear

and a part of the time somewhat cloudy
images however better & more steadily than
in first groups with full aperture
Settings carefully made; obs considered good

5441.086 x Pos. Angle = 253.8
Sprocket Wheel = B 7.5
= C 8.5
Final Mean = -6.16

Feb. 25, 1901

Vesta with (8.0) w Obs.

8 54 + 25.0
8 04
0 50
11 10

Left
~~97.0~~
9 36.0 ~~145.8~~
~~276.1~~
~~327.2~~

~~48.8~~
~~51.1~~
~~99.9~~ -

~~95.0~~
~~147.8~~
~~278.0~~
~~324.0~~
Right

~~52.8~~
~~46.0~~
~~98.8~~ -

7.4 Clouds
55.3 clouds thick
" "

Stopped by clouds

ε 15-60 w Obs
9 11 32 -1.7
8 48
2 44
9 16

Feb. 25, 1901

Σ 845 w—O6z

Phot w 6 02 +48.7

8 52

2 50

Pos Ang 350° Dist 7" Magns. 5.2 - 6.6

~~[illegible]~~Left

221.0 <brighter dis.

10 33.0 284.6 62.6×

35.9 72.6

108.5 135.2× − 0.87×

216.2

− 0.84×

289.0 72.8×

40.7 64.7×

105.4 137.5× − 0.82×

Right

132.6 Mean = 0.82

194.0 61.4×

305.5 75.4×

20.9 136.8× − 0.84×

5.8

~~126.6~~ 126.1

− 0.80×

10 50.0 199.0 72.9×

83.0 309.2 67.5×

10 41.5× 16.7 140.4× − 0.77×

5 +0.5

15 42.0× Gr. M.T.

5441.654×

Posted

Feb. 25, 1901.

Σ 1135 w Obs.
7 39 + 33.7
9 ~~37~~

Σ 900 w Obs.
6 17 + 47.
9 37
3 20

Feb-26, 1901 (Tuesday)

B&C 1182 B 334
7 09 38.8 7 10 00

Nova Persei w Ob
3 24 +43.6

at 7:00 S.T. is = to 5:40

3 24
6 04
2 40

Cloudy

Vesta w Ob
8 54 +25.0
6 04
2 50
9 10

8
7 3~~7~~ 01.0
39 55.5

41 - 21.8
42 31.8
43 17.0

Cloudy / 9 in Cap used on Vesta

Feb 26, 1901
Vesta with +24°1999 (8.0)

Ledgered

Left
99.2 < Vesta dia.
8 30.0 144.8 45.6×
275.2 49.2×
324.4 94.8× − 1.79

− 1.81×

99.0
146.3 47.3×
278.8 45.8×
324.6 93.1× − 1.83×
Mean = − 1.86×
Right
9.0
53.3 44.3×
187.8 47.0×
234.8 91.3× − 1.88×
~~8~~

4
8.2 − 1.90×
8 49.0 55.1 46.9×
74.0 190.3 43.2×
8 37.0× 233.5 90.1× − 1.91×
4
5 + 0.8
13 37.84 Gr. M. Time
5442.567

Feb 26, 1901

Right   Same Again

10.0

8 47.0   53.5   43.5 x

187.4   50.0 x

237.4   93.5 x — 1.82 x

— 1.82 x

7.9

56.3   48.4 x

190.5   44.8 x

235.3   93.2 x — 1.83 x

Left

279.0   Mean = — 1.81

325.5   46.5 x

97.3   48.5 x

145.8   95.0 x — 1.78 x

276.4   — 1.80 x

9 04.0   326.7   50.3 x

8 11.1.0   99.7   43.8 x

5 55.5   143.5   94.1 x — 1.81 x

5 + 0.8 x

1~~4~~3 53.~~8~~9 x Gr. M. Time.   Final Mean = 1.84 x

5442 581 x

Feb. 26, 1901

Nova Persei
Plott. 3 24 + 43.6 W Ob
7 55
4 31
7 in. cap. used.

Ledgered.

Left
117.6
9 28.0 125.8 8.2 ✓
297.0 7.8 ✓
304.8 16.0 ✓ – 5.78 x

117.9 – 5.79 x
125.4 7.5 ✓
296.1 8.3 ✓
304.4 15.8 ✓ – 5.80 ✓
Right mean = 5.74
27.4
36.1 8.7 ✓
208.9 7.5 ✓
216.4 16.2 ✓ – 5.75 x

16.5 – 5.68 x
9 36.4 35.7 9.2 ✓
64.4 208.5 9 8.1
9 32.2 216.8 17.3 ✓ – 5.61 ~~58~~ x
5 + 0.4
14 32.6 x 42 m.T.
5442.606 x

Feb. 26, 1901

Same Again.

Right
26.8
9 40.0 34.8 8.0
209.0 8.0
207.0 16.0 -5.78

26.9 -5.75
35.0 8.1
209.2 8.3
217.5 16.4 -5.72

Left Mean = 5.78
296.2
304.0 7.8
117.5 7.8
125.3 15.6 -5.83

296.7 -5.80
9 48.4 304.7 8.0
117.4 8.1
9 44.2
5 +0.34 125.5 16.1 -5.76
14 44.62 Gr. M.T. Final Mean = -5.76
5442.6 5x Pos Ang = 254.1
Sp. Wheel = a 2.5
" " = B 3.6

Pin in chain carrying prism broke & was replaced which was probably was not placed in the same hole

Ledgered Feb. 26, 1901.

Posted. so that sprocket wheel does not read the same as before

R Aurigae w Obs

5 3 +53 0

8 8

3 5

Post

5 3 +53 0

9 23

4 20

10 49. r 3 var, var 1.5 s

S Cygni w Obs

20 8 +57.2

9 30

10 38

+1 22

11 08 Stars r & v thought to be same

Var. thought to be same, if all is correct, est. would be

r 3 var, var 2 s

region low, moon rather bright

est somewhat uncertain

B D C 1182 B 394

21 10 38.2 21 11 0.0

Feb. 27, 1901 (Wednesday)

B&C 1182 B 394
6 47 42.0 6 48 0.0

o Ceti w-Ok

Phot w 2 12 -3.6
5 32
3 20

~~[illegible]~~

Above
305.1
7 04.0 20.5 < van dis 75.4× Led. Plot
124.4 77.8×
202.2 153.2× -0.51×

304.6 -0.49×
227 78.1×
124.6 77.2×
201.8 155.3× -0.47×
Below
214.6 Mean = -0.44×
292.3 77.7×
32.5 81.1×
113.6 158.8× -0.40×

213.3 -0.40×
7 10.0 293.8 80.5×
7 07.0 34.1 78.2×
5 + 0.3× 112.3 158.7× — 0.41×
12 07.3× Gr. M. Time
5443.505×

Feb 27/1901

Same Again

Below
2146
7 12,6 291.7 77.1*
32.5 79.7*
112.2 156.8* − 0.44*

212,0 − 0.41*
293.4 81.4*
33,2 78.7*
111.9 160.1* − 038*

Above Mean = − 0.42*
125.8
201.7 75.9*
302.8 79.9*
22.7 155.8* − 0.46*

1235 − 0.43*
7 19.6 203.4 79.9*
12.2 303.8 79.0*
7 16.1* 22.8 158.9* − 0.40*
5 + 0.3 o in finder perceptibly brighter
12 16.4* than comp *, also in large
5443.511* telescope

Final Mean = − 0.43*
C.S. = 9.19
mag = 8.76

Feb. 27, 1901

Phot T.   Vesta   Wells

8 54 +25.0
6 14
2 40

9 20
7 in cap used.

7 37 23.0 Vesta   Vesta 5′.0 N of (8.8)
38 27.8 (8.8)

39 41.8 faint Star   faint ★ 14′.5 N of Vesta
40 19.5 Vesta
Another star precedes Vesta 40 secs &
25′.0 N of it.

(over)

Feb. 27, 1901

Vesta with +25°, 1997 (88)

L+A. Ledgerwood

103.9 < Vesta disc.
7 53.8 139.5 35.6ˣ
280.8 40.5ˣ
321.3 76.1ˣ – 2.31ˣ

101.5 – 2.30ˣ
141.5 40.0ˣ
282.2 36.4ˣ
318.6 76.4ˣ – 2.30ˣ

RTB mean = – 2.32ˣ
13.9
49.7 35.8ˣ
193.7 38.4ˣ
232.1 74.2ˣ – 2.31ˣ

11.6 – 2.34ˣ
8 04.8 51.5 39.9ˣ
118.6 194.9 36.2ˣ
7 59.3ˣ 231.1 76.1ˣ – 2.31ˣ
5 +0.3
12 59.6ˣ Gr. M. T.
5443.542ˣ

Feb 27, 1901

Vesta Again

RDB.

13.7
8 07.0 49.8 36.1
194.0 37.6
231.6 73.7 — 2.39

12.3 — 2.38
51.0 38.7
194.2 35.5
229.7 74.2 — 2.37
Lra
283.8 Mean = -2.33
320.5 36.7
102.5 40.0
142.5 76.7 -2.29

280.1 -2.28
8 25.0 321.6 41.5
8 16.0 103.8 36.3
5 +0.3 140.8 77.8 -2.26
13 16.3 Gr. M.T. Final Mean = -2.32
5443.553

Feb. 27, 1901

Nova Persei   W.Ch.

Phot T. 3 24 + 43.6
7 48
4 24 7 in cap

Left   Led.
295.1
9 15.8   305.2 10.1^{+}
117.6 8.5^{α}
126.1 18.6^{+} − 5.45^{-}

296.1 -5.38^{+}
305.4 9.3^{+}
116.6 10.6^{+}
127.2 19.9^{+} − 5.30^{+}

Right   Mean = −5.33
206.3
217.0 10.7^{+}
27.6 9.3^{+}
36.9 20.0^{+} − 5.29^{+}

207.8 -528^{+}
9 26.4   217.2 9.4^{+}
42.2   26.3 10.7^{+}
9 21.1^{+} 37.0 20.1^{+} − 528^{+}
5 40.3

14 21.4^{+} Gr. M. Time.
5443.598^{+}

Feb 27/1901

Same Again.

Right
207.3
9 30.0 217.8 10.5ˣ
26.7 10.0ˣ
36.7 20.5ˣ − 5.24ˣ

207.8 − 5.28ˣ
217.4 9.6ˣ
26.2 10.2ˣ
36.4 19.8ˣ − 5.31ˣ

Left Mean = − 5.30ˣ
117.2
127.0 9.8ˣ
295.9 9.6ˣ
305.5 19.4ˣ − 5.36ˣ

116.8 − 5.32ˣ
9 42.4 127.0 10.0ˣ
9 36.2ˣ 294.9 10.2ˣ
5 40.3 305.1 20.2ˣ − 5.27ˣ
14 36.5± Gr. M.T. Final Mean = −5.32ˣ
5443.608ˣ

Pos Angle = 254.2
Sprocket Wheel = 2.5 a
" " = 8.6 B

Zero of Sp. Wheel = a 11.5
" " " " = B 12.6

Feb 27, 1901

Eros. Phot. I. W. obs.

5 18 12. ✓ +15 0 ✓
21 48. ✓ +14 40 ✓
+3 36. 20

5 18 12. +15 0 ✓
+36. −3 ✓
Eros. (α δ) = 5 18 48. ✓ +14 57 ✓
+14° 915 (α δ) = 5 19 30. ✓ +14 56. ✓
−42. +1. ✓

5 20 +15.8
8 50
3 30

(2 16
36)

10 14 Eros precedes the +14° 915 (8.8) 47.5 secs & is 0.′2 S of it.

Eros precedes faint Star 1.0 sec & is 4.′0 S of it.

Comp ★ = +14° 915 (8.8)

Feb 27, 1901

Eros with (8.8)

Left   Led.

283.1   < Comp * dis
10 33.0   318.6   35.5
102.8   33.5
1361.3   69.0 + 2.54

282.9   + 2.53
319.4   36.5
103.9   33.1
137.0   69.6 + 2.52

Right   Mean = + 2.56
194.6
229.0   34.4
14.3   34.3
48.6   68.7 + 2.55

19~~4~~5.1   + 2.59
10 44.6   228.4   33.3
776   14.6   33.1
10 38.8   47.7   66.4 + 263
5 +0.3
15 39.1 Gr. M.T.
5443652

Feb. 27, 1901

Eros Again.

Right
196.0
10 50.0 228.8 32.8
15.2 32.6
47.8 65.4 + 2.66

195.7 + 2.70
227.6 31.9
16.5 31.2
49.7 63.1 + 2.74

Left. Mean = + 2.72
106.3
137.6 31.3
285.5 31.1
316.6 62.4 + 2.77

105.4 + 2.74
11 00.0 135.9 30.5
10 55.0 284.0 33.6
5 +0.3 317.6 64.1 + 2.71
15 55.3 Gr. M.T. Moon very bright & shining
5443.663 on objective, region getting a
little low, & Eros quite faint
& diff. in Phot. Settings made with
care
Eros now follows faint star 6.6 sec
11 07 & is 4.8 S of it

Feb. 27, 1901

B 8C 1182
21 16 41.6

Posted.
B 87K
21 17 0.0

Feb, 28, 1901 (Thursday)

B&C 1182 B 394

7 03 46.2 7 04 0.0

Phot T. Vesta W Ok

8 54 +24.6

6 04

2 50 7 in cap used

9 10

7 25 34.0 Vesta Vesta 7.7 Not (8.8)

27 18.8 (8.8)

28 12.0 (8.8)

30 06.8 (8.0)

Vesta comp. with +25° 1997 (8.8)

281.0 L&a x Ledgered

7 41.8 320.4 39.4 x

103.2 37.7

140.9 77.1 x − 2.28 x

283.4

319.4 36.0 x − 2.30 x

101.4 40.2 x

141.6 76.2 x − 2.31 x

192.4 R&B. Mean = − 2.36

232.4 40.0 x

1?.2 35.0 x

49.2 75.0 x − 2.35 x

194.5

7 54.6 228.8 34.3 x − 2.42 x

96.4 13.6 36.5 x

7 48.2 50.1 70.8 x − 2.48 x

5 +0.2

12 48.~~4~~ G. M. Time. 5444.533 x

Feb. 28, 1901.

Vesta Again.

	R & B		
	1924		
7 58.4	232.9	40.5 x	
	14.3	34.5 x	
	48.8	75.0 x	− 2.35 x
	194.8		− 2.38 x
	230.1	35.3 x	
	12.6	37.3 x	
	49.9	72.6 x	− 2.42 x
	L & A		Mean = − 2.35
	101.2		
	142.1	40.9 x	
	283.6	35.7 x	
	319.3	76.6 x	− 2.30 x
	103.4		− 2.32 x
8 17.0	139.3	35.9 x	
125.4	281.6	39.5 x	
8 02.7	321.1	75.4 x	− 2.33 x
5 + 0.2			
13 02.9 x	Gr M Time		Final mean = − 2.36
5444.	544 x		

Feb 28, 1901
Nova Persei . W Obs
7 in cap Phot T.

Left Ledgered.
117.5
8 47.6 126.6 9.1
296.4 8.4
304.8 17.5 −5.58

116.8 −5.48
126.5 9.7
295.4 9.6
305.0 19.3 −5.37

Right Mean = −5.43
26.7
37.4 10.7
208.1 8.2
216.3 18.9 −5.41

27.7 5.38
9 00.0 36.4 8.7
107.6 207.5 10.7
8 53.8 218.2 19.4 −5.36
5 + 2
13 54.0 Gr. M.T.
5444579

Feb. 28, 1901

Same Again –

Right

27.4

9 05.0 37.0 9.6 ×

208.2 8.4 ×

216.6 18.0 × – 5.52 ×

27.5 – 5.39 ×

36.8 9.3 ×

207.4 11.0 ×

218.4 20.3 × – 5.26 ×

Left Mean = – 5.40 ×

295.1

304.8 9.7 ×

117.1 9.4 ×

126.5 19.1 × – 5.39 ×

– 5.42 ×

296.2

9 16.0 305.5 9.3 ×

21.0 117.5 9.4 ×

9 10.5 ~~126.9~~ ~~127.0~~ 18.7 × – 5.44 ×

5 40.2 M.T. Final Mean = 5.42 ×

14 10.7 W. Nova tonight appears a little brighter

91 ×

5 44.5 ~~84~~ relative to α Persei than last night.

It also looks a little more reddish orange

to observe than times: this [illegible]

Feb 28, 1901

in color seems to be confirmed both
in finder & phot. on large telescope.
When the image in the phot is turned
up to full brightness; the orange
reddish color is not particularly perceptible
at equalization of images.

Shouldest color about 3 on scale of
10, 10 being very red.
nova ~~so~~ est. as 1 grade brighter
9 30 than α Persei. by W, last night
W estimated the nova 1 gr. fainter
than α Persei. at 11:30 E.M.T.

Pos angle = 253.8
Sp. wheel 2.5 = a
" " 3.6 = B

Phot W Σ 762 W Ob
5 32 -27
8 32
3 00
Pos angle 70°
Distance 40"
Magns. 4.0 & 7.2

see next page

Feb. 28, 1901

Σ762 see prev. page

Above

325.4 brighter dis

9.53.0 361.4 — 36.0^{x}

150.6 — 26.4^{x}

177.0 — 62.4^{x} — 2.77^{x}

330.9 — −2.83^{x}

355.1 — 24.2^{x}

146.3 — 35.0^{x}

181.3 — 59.2^{x} — 2.89^{x}

Below — mean = −2.84^{x}

235.8

271.2 — 35.4^{x}

60.4 — 25.8^{x}

86.2 — 61.2^{x} — 2.81^{x}

240.1 — −2.85^{x}

10 00.0 264.5 — 24.4^{x}

9 56.5 56.7 — 34.7^{x}

5 40.2 91.84 — 59.1^{x} — 2.89^{x}

14 56.7 Gr. m. T.

5444.623^{x}

Feb. 28, 1901.
Pos ang. 95° dist 13"
Magns 4.0 & 7.65

Below & Right
236.8
10 03.0 269.5 32.7
61.2 26.1
87.3 58.8 — 2.91

240.0 — 2.88
266.6 26.6
55.8 33.3
89.1 59.9 — 2.86

Above & Left Mean = −2.87
147.0
180.0 33.0
330.7 25.2
355.9 58.2 — 2.93

148.6
~~10 07.4~~ 176.6 28.0 — 2.86
10 05.2 325.4 34.2
5 +0.2 359.6 62.2 — 2.78
15 05.4 G. M. T.
5444.628

Feb 28, 1901
R Ursæ minoris
w 6 h.

16 34 +72.9
9 00
7 34
4 26

Ledgard
plotted.

Left

~~357.6~~

10 350

358.6 < comp + obs
64.6 66.0×
174.6 70.9×
245.5 136.9× +0.84×

355.7 +0.84×
67.0 71.3×
176.9 65.0×
241.9 136.3× +0.85×

Right mean = +0.86×
270.0
333.1 63.1×
85.6 73.0×
158.6 136.1× +0.85×

266.0
1047.0 337.2 71.2× +0.87×
10 41.0× 91.0 63.2×
5 +0.2 154.2 134.4× +0.89×
-15 41.2× Gr. M. T.
5444.653×

Feb 28, 1901

Same Again

Right.

268.7
10 50.4 333.4
86.4
156.3

64.7
69.9
134.6 +0.88

+0.92

267.3
335.6
91.3
153.9

68.3
62.6
130.9 +0.96

mean = + 0.91

Left
179.0
242.9
355.9
65.9

63.9
70.0
133.9 +0.90

+0.90

175.3
11 02.4 243.8
10 56.4 359.0
5 +0.2
15 56.6 65.0
G.M.T.
5444.665

68.5
66.0
134.5 +0.89

Final mean = + 0.88

Pos. ang. = 318.6

Spr wheel = B 4.5

" " = C 5.3

Feb. 28. 1901.

Posted.

At $11^h\ 25^m$ P. M. estimated Nova Persei 1 gr. brtr. than α Persei. W. obs.

Mar. 1, 1901
(Friday)

Nova Persei

phot T.

3 3 ~~4~~ +43.6 w Obs
4 10
+4 36 7 in cap used

clouds

Left

Ledg.
Plot.

~~16.6~~
~~9 31.0~~ ~~127.8~~
~~295.2~~
~~305.8~~

~~11.2~~
~~10.6~~
~~21.8~~ —

~~clouds thick~~
clouds thick 10 pm
clouds thick.

115.6
9 18.0 128.2
294.5
306.7

12.6
12.2
24.8 — 4.82

~~Right~~
115.6
128.9

~~Mean~~ —
— 4.84

13.3
11.0
24.3 — 4.86

295.0
306.0
Right

Mean = — 4.86

25.5 3
37.4
206.1
218.8

11.8
12.7
24.5 — 4.85

— 4.88

5
10 20.0
25.3
38.3

13.0
10.8
23.8 — 4.91

10.21.5 206.6
5 +0.1 217.4
15 21.6 G.M.T.
5445.640

Mar. 1, 1901

Nova Again -

This book
Ledgered &
Plotted

Right
26.5
10 30.0 38.0
205.4
218.2

25.6
38.2
206.4
217.6

~~25~~

11.5 x
12.8 x
24.3 x −486 x

12.6 x −488 x
11.2 x
23.8 x 491 x

Left
294.3
306.7
115.6
127.1

mean = −488

12.4 x
11.5 x
23.9 x −4.90 x

294.8
10 41.0 306.2
10 35.5 115.3
5 +0.1 128.0
15 35.6 G.m.T.
5445: 650 x

−489 x

11.4 x
12.7 x −488 x
24.1 x

~~[illegible]~~

see next book.