KG
11366
v. 364

Jan 2, 1900

U Ceph. cont. from (IV)
previous book (1.12)

R + a.
216.6
7 44 35 288.0 71.4 Ledgard
34.2 74.8
109.0 146.2 −0.65

215.1 +0.62
46 20 291.5 76.4
35.1 72.2
107.3 148.6 −0.60
L + B
122.8 mean = −0.56
48 40 201.3 78.5
304.3 75.0
19.3 153.5 −0.51

124.2 −0.50
50 10 201.2 76.0
18 9 45 301.8 78.4
7 47 26 20.2 154.4 −0.49
5 = 0.34
12 46 52 Gr. M Time. Pos. angle ver a 13.2°
50 22 53 25 Sprocket wheel A Sys. −2.4
50 22 38 32 " " B " −1.5
+0.1493

Jan. 2, 1900

Phot. T. T. Monocerotis, m Obs.

6 17 +7.2
3 07
3 10
8 50

(Bond 394
8 02 00.0
8 03 000

a.o. Dent 1182
8 02 35.0
8 03 35.0)

L.O.a. 9.5 inch cap used.

Ledgered

49.0
8 .170 93.6 44.6
232.2 40.8
273.0 85.4 - 2.04
51.4
97.8 40.4 - 2.08
232.6 41.9
274.5 82.3 - 2.13
R.A.B.
316.0 mean = -1.95
368.4 52.4
139.6 44.6
184.2 97.0 - 1.73
320.8
8 26.8 364.8 44.0 -1.82
438
8 21.96 139.1 46.1
5 .6 185.2 90.1 - 1.91
13 21.3 Gr. M. Time
5022.556

Jan. 2, 1900

Same Again.

II

R+B
316.9
8 29.5 367.0 50.1
Clouds. 46.4
139.1 96.5 -1.74
185.5
318.9
365.7 46.8 -1.78
138.7 46.3
185.0 Clouds.
93.1 -1.83

L+A.
232.3
mean = -1.90
274.9 Clouds 42.6
50.9 41.9
92.8 84.5 -2.06
231.6
-2.02
275.2 43.6
8 44.2 49.1 Clouds 44.1
73.7 93.2 87.7 -1.98
8 36.8
5 -0.6
13 06.2 Sid. M Time
50

Jan. 2, 1900

Same Again.

III

L + a.

2314

8 50.0 — 275.3 — 43.9

51.8 — 40.6

92.4 — 84.5 — -206

2325 — -2.07

272.8 — 40.3

49.9 — 43.7

93.6 — 84.0 — -2.08

R + B.

138.6 — Mean = -1.94

185.6 — 47.0

319.5 — 44.7

364.2 — 91.7 — -1.87

138.6 — -1.82

8 57.0 — 185.5 — 46.9

317.9 — 48.5

8 53.5 — 366.4 — 95.4 — -1.77

5 - .6

1 3 529 Sn m Time middle group taken through clouds.

50 and 578 to be rejected, stars nearly invisible.

In first and last groups stars better seen.

Jan 2, 1900.

Poz. Angle = Ver 87.5

Sprocket Wheel A System 2.5

" " " B " -1.4

Standards following γ Pegasi
no 6 bs.

0 7 +14.5.
4 25
4 18

Comp. star for γ Pegasi Stars = +14° 15 (9.2)

4 32 9.5
2 25.0
4 34 34.5

4 34 59.8
0 34.0
4 35 33.8

4 36 15.2
4 36 27.5

4 37 2.5
37 12.5

see next page.

Jan. 2, 1900

Phot 7.

Star b comp with,

Left.

52.1 comp stardis. Ledgered.

9 52.0 90.8 37.9

230.6 42.3

272.9 80.2 + 2.19

52.4 +2.22

93.2 40.8

234.9 37.5

272.4 78.3 + 2.25

Right

320.1

364.0 42.9

138.9 43.6

182.5 87.5 +1.98

320.2 +2.00

9 59.2 365.0 44.8

11.2 139.9 41.7

9 55.6 182.6 86.5 +2.01

5 - 0.6

14 55.0 G.M.time. mean = +2.11

Jan. 2, 1900.

ρ

Star c comp with.

Right & Above

Ledgered.

148.8 (comp & dis.)

10 05.0 176.2 27.4

329.0 27.8

356.8 53.2 + 3.05

147.6 + 3.02

176.7 29.1

327.5 27.5

355.0 56.6 + 2.99

L & B.

58.9

85.0 26.1

240.8 24.6

265.4 50.7 + 3.24

61.8 + 3.20

10 12.8 86.4 24.6

17.8 238.8 28.2

10 8.9 267.0 52.8 + 3.15

5 - .6

15 8.3 Gr. M. Time

Mean = + 3.11

Jan. 2, 1900

Phot T. Star (a) comp with -

Left   Ledgered.

228.3 < comp * dis

10 16.6   278.0   49.7

50.3   44.5

948   94.2   +1.80

229.2   +1.76

276.9   47.7

48.1   50.1

98.2   97.8   +1.71

Right.

136.4

188.5   52.1

315.6   52.6

368.2   104.7   +1.54

135.5   +1.56

10 24.4   187.2   51.7

41.0   317.7   51.4

10 20.5   369.1   103.1   +1.58

5 -6   5 34 21.5   Mean = +1.66

15 1994 M.T.   34 55.5

Comp Star precede Star a by 34 secs and is about 8' South of it Mag - 8 to 8.5

Jan 2, 1900
Circumpolars
R Ursae maj: no obs.

10 32 +69.3
5 58
4 34 ✓
7 26

11 12 u 1 var, var 3 w Est. 13.3

T Ursae maj:

12 33 +60.4
6 18
6 15 ✓
5 45

11 21 n 3, 2 0 Est. 11.4

Omitted by mistake

Omitted by mistake.

Jan. 3, 1900 (Wednesday)
Comp of chron.

B and 394			a. & Dent 1182		
6	27	00.0	6	29	00.5
6	28	00.0	6	30	00.7

Phot. T. χ Cygni. m obs.

19 45 +32.6
25 53
6 08

L & a. Plotted.
Ledgered.

66.2 (corr. x dir.)
7 03.0 77.7 11.5+
246.0 14.6+
260.6 26.1+ +471+

66.0 +461
78.0 12.0+
246.2 16.6+
262.8 28.6+ +457

R & B.
334.9 mean = +462+
349.0 14.1+
154.2 14.3+
168.5 28.4+ +452+

336.7 +463-
7 12.0 349.0 12.3+
155.2 13.4+
7 07.5 168.6 25.7+ +474- 5023.504
5 - 2.0
12 05.5 Gr. M. Time

Jan 3, 1900

Same again

R & B

335.1
7 15.0 349.6 14.5″
154.4 14.8″
169.2 29.3″ +4.45″

335.4 +4.60″
347.9 12.5″
155.6 13.0″
168.6 25.5″ +4.76″

L & A
245.8 mean = +4.64″
260.8 15.0″
66.8 12.2″
79.0 27.2″ +4.62″

245.4 +4.68″
7 25.0 259.0 13.6″
7 20.0 67.0 12.0″
5-2.0 79.0 25.6″ +4.75″
12 18.0 St. Mn Time
5823.512″

Pos. ang. Ver a = 202.6
Sprocket wheel a System - 3.5
" " B " - 2.5

Jan-3, 1900

Standards following γ Pegasi.

Phot. T. W66.

0 17 +14.5

257

240

Same comp. star used as on last night

3 07 03.5 = DM+14° 15 (9.2)

3 08 01.7

3 09 16.5

Left 09 37.5

64.8 Star h̄ comp with

8 26.2 79.7 14.9^{+} Ledgered.

245.2 15.4^{+}

260.6 30.3^{+} $+4.38^{+}$

64.8 $+4.32^{+}$

79.2 14.4^{-}

243.6 17.8^{+}

261.4 32.2^{+} $+4.25^{+}$

Right

334.7 mean: $+4.31^{+}$

351.4 16.7^{+}

153.6 15.1^{+}

168.7 31.8^{+} $+4.27^{+}$

335.0 $+4.30^{+}$

8 36.4 349.1 14.1^{+} 5023.562

17.0^{+}

62.6 151.2 31.1^{+} $+4.32^{+}$

8 31.3 168.2

5 2.0

103 29.3 G.M.T.

Jan. 3, 1900

Right. Star g. comp with +14° 15 (9.2)

151.8

8 39.0 170.7 18.9 Ledgered

331.6 20.3

351.9 39.2 +3.81

151.8 +3.81

171.6 19.8

332.7 19.4

352.1 39.2 +3.81

Left.

63.5 mean = +3.84

81.6 18.1

240.2 22.6

262.8 40.7 +3.73

64.5 +3.88

8 46.8 82.2 17.7

85.8 242.9 17.9

8 42.9 260.8 35.6 +4.03

5 -2.0

13 40.9 Gr. M. Time.

5023.570

Jan. 3, 1900

Star $\overset{d}{f}$ comp with +14° 15

	Left			
	236.8	< comp * dis.		Ledgered
8 56.0	267.3	30.5		
	57.9	26.4		
	84.3	56.9	+2.98	
	238.6			+2.98
	264.6	26.0*		
	56.3	30.7*		
	84.0	56.7*	+2.99	
	Right.			
	146.9			mean = +2.90*
	175.8	28.9*		
	325.4	31.6*		
	357.0	60.5*	+2.84	
	148.5			+2.82
9 02.0	179.2	30.5*		
11.80	327.2	31.0*		
8 59.0	358.2	61.5*	+2.80	

5 -2.0

13 57.0 Gr.M.Time.

5023.581*

Jan. 3, 1900 ☾.

Star c comp with +14° 1r.

Right & above

Ledgered

326.9
9 05.4 332.4 25.5ˣ
146.6 31.8ˣ
178.4 57.3ˣ +2.96ˣ

327.1 +2.90ˣ
358.7 31.6ˣ
148.1 28.8ˣ
176.9 60.4ˣ +2.84ˣ

Left & Below

Mean = +2.98ˣ

239.8
266.2 26.4ˣ
57.5 28.2ˣ
85.7 54.6ˣ +3.07ˣ

238.2 +3.07ˣ
9 15.6 268.0 29.8ˣ
21.0ˣ 58.8 24.8ˣ
9 10.5ˣ 83.6 54.6ˣ +3.07ˣ
5 - 2.0
14 8.5 Gr. M. Time.
5023.588ˣ

Jan. 3, 1900

Star b comp with +14° 15

~~Left~~ Ledgered

53.0
9 36.6 92.8 39.8
237.1 38.1
270.2 77.9 +2.26

54.2 +2.42
89.4 35.2
235.1 32.5
271.6 67.7 +2.59
Right.
320.1
363.7 43.6 mean + 2.24
141.9 8 42.7
184.5 86.3 +2.01

322.5 +2.06
9 43.0 361.4 38.9
79.6 140.0 43.6
9 39.8 183.6 82.5 +2.12
5 -2.0
14 37.8 G.M.Time.
5023.610

Jan 3, 1900

Star a comp with +18° 18

Ledgered.

Right
136.0
9 45.2 187.6 51.6
316.5 50.5
367.0 102.1 +1.61

136.1 +1.60
188.0 51.9
316.4 51.3
367.7 103.2 +1.58
Left.
47.0 mean. +1.64
98.4 51.4
228.5 47.0
275.5 98.4 +1.70

46.8 +1.69
9 51.8 96.8 50.0
97.0 227.3 48.9
276.2 98.9 +1.69
9 48.5
5 -2.0
14 46.5 Gr. M Time
5023.616

Jan. 3, 1900

Phot T. T. Monocerotis [illegible]

6 17 +7.3
5 27
0 50
11 10

Above
231.2
10 26.8 273.1 41.9
51.8 41.8
93.6 83.7 −2.09

230.0 −2.05
274.3 44.3 Reject.
50.5 43.0
93.5 87.3 −1.99
Below
138.9 mean 1.92
185.8 46.9
318.6 46.0
364.6 92.9 −1.84

139.0 +1.84
10 34.2 185.3 46.3
319.4 46.1
10 365.5 92.4 −1.85

Jan 3, 1900

Same again.

Below

138.8
10 36.8 186.1 47.3
319.3 45.3.
364.6 92.6 − 1.84

139.5 −1.80
185.5 46.0
316.6 50.1
366.7 96.1 1.95

Above
51.2 mean = 1.92
93.2 42.0
230.7 44.1
274.8 86.1 − 2.07

50.1 −2.05
10 45.0 92.6 42.5
232.4 41.3
273.7 83.8 −208

Pos. angle Ver. A. 86.4

11 04 Sprocket wheel A System −2.5
" " B " −1.4

Jan 3, 1900

Same again

Above

232.2

10 59.4 273.7 41.5

50.3 41.9

92.2 83.4 −2.09

228.8 2.02

275.1 46.3

50.9 42.7

93.6 89.0 −1.94

Reject mean of 1.89

Below

138.2

186.8 48.6

320.4 45.2

365.6 93.8 −1.81

138.4 −1.76

11 10 0 186.6 48.2

316.7 49.1

365.8 97.3 −1.72

Full aperture on preceding three groups.

Reject previous three groups as cap was neglected to be put on.

Jan 3, 1900

6 17 + 7.2 Same again.
6 29 95 in cap used on two following
0 12 groups.

Above ~~Ledgered~~ ~~Plotted~~

51,4 I

11 27.2 93,2 41.8 ✓

229,9 43.9 ✓

273,8 85.7 ✓ - 2.03

508 - 2.05 x

94,9 44.1 ✓

233,0 40.3 ✓

273,3 84.4 ✓ - -2.07

Below

318,7

367.9 49.2 ✓

138,7 46.4 ✓

184,1 95.6 ✓ - 1.77 ✓

319,2 -1.78 ✓

11 35.0 367,1 47.9 ✓

622 139,3 46.9 ✓

11 31.1 186,2

5 -2.0 94.8 ✓ - 1.79 ✓

16 29.1 Gr. M. Time -1.92 x

5023.687

5009.058

+14.629

27.012

-12.383

Jan. 3, 1900

Below Same again ~~#14° Tr~~ ~~IV~~

318.4

11 37.6 367.3 48.9 ✓ II

138.8 47.3 ✓

186.1 96.2 ✓ 1.75 ✓

319.0 -1.76 ✓

365.5 46.5 ✓

137.8 49.0 ✓

186.8 95.5 ✓ -1.77 ✓

above

47.2

94.6 43.4 ✓

239.8 45.5 ✓

275.3 88.9 ✓ 1.94 ✓

49.7

~~49.7~~ 1.94 ✓

11 50.0 95.8 46.1 ✓

87.6 231.2 43.2 ✓

11 43.8 274.4 89.3 ✓ 1.93

5 -20 -1.85 ✓

16 41.8 Gr. M. Time.

5023.696

5009.058

+14638

27.012

-12.374

Jan 4, 1900 (Thursday)

Bond 394 A&Dent 1182
6 58 00.0 7 01 31.2
6 59 00.0 7 02 31.3

Standards following γ Pegasi.
Same comp. star as last night. MOb.

0 7 +1.45
2 51
2 ~~44~~

Left Star (g) comp with (9.2)
~~64.5~~ < comp star dis.

~~7 57.0~~ ~~78.3~~ ~~138~~ Ledgerde
241.5 21.8*
8 02.8 2633 17.7*
636 39.5* +3.79
81.3
2448
260.7 159* 5* +3.98
638
81.3 ~~17.7~~
Right. 33.4* +4.17
150.2
172.2 22.0* mean +3.83*
331.9 20.4*
352.3 42.4* +3.64*
153.9
811.4 174.6 20.7* +3.68*
14.2 331.7 20.1*
8 7.1 351.8 49.8* +3.72*
5-35
13 3-6 [illegible]
5724 544*

Jan. 4. 1906.

Star of comp with (9.2)

R & A.

3290

Ledgered

8 15.4 353.1 24.1

149.8 25.8

175.6 49.9 + 3.28

330.1 + 3.34

353.1 23.0

150.6 24.2

174.8 47.2 + 3.40

L & B.

2427

2636 20.9 mean = + 3.47

60.4 22.0

82.4 42.9 + 3.61

240.3 + 3.60

8 25.2 264.0 23.7

40.6 63.1 19.9

8 20.3 83.0 43.6 + 3.58

5 - 3.5

13 16.8 Gr M. Time

5024.558

Jan. 4, 1900.

Star (e) comp with (g. 2)

Ledgered

L & B.
628
8 28.0 83.3 20.5
240.0 24.8
264.8 45.3 + 3.49

60.6 + 3.50
82.7 23.1
241.6 22.0
263.6 45.1 + 3.50
R & A.
328.8
355.3 26.5 Mean = + 3.34
148.6 27.5
176.1 54.0 + 3.10

329.7 + 3.17
8 35.6 355.7 26.0
63.6 149.6 24.6
8 31.8 174.2 50.6 + 3.24
5 -35
13 28.3 G. M. Time
5024.561

Jan. 4. 1900

Star (h) comp. with (g. 2)

Ledgered

	Right.		
	153.6		
8 42.2	171.1	17.5	
	334.7	14.4	
	349.1	31.9	+4.27
	155.6		+4.32
	170.5	14.9	
	333.8	15.5	
	349.3	30.4	+4.37
	Left.		
	64.1		mean = +4.25
	82.8	18.7	
	245.8	14.4	
	260.2	33.1	+4.19
	63.2		+4.18
8 52.0	79.9	16.7	
94.2	243.~~4~~	16.7	
8 47.1	260.1	33.4	+4.17

5 -3.5

13 43.6 Gr. M. Time

502~~4~~. 572

Jan - 4, 1900

Letto & Below floor (d) comp with (9.2)

238.7

8 57.0 267.1 28.4

56.7 24.8 Ledgered

81.5 53.2 ✱ +3.13

238.1 +3.10

267.9 29.8

58.8 25.0

83.8 54.8 ✱ +3.07

R & a.

145.7 mean = +2.97

177.2 31.5

326.0 30.0

356.0 61.5 ✱ +2.80

146.8 +2.84

9 07.0 176.5 29.7

124.0 327.3 29.4

9 02.0 356.7 59.1 +2.89

5 -3.5

13 58.5± Gr. M. Time

5024.582

Jan. 4, 1900

Phot T. X. Monocerotis. No 6 b.
9 B in cap used.

6 17 +7.2
4 52
1 25
10 35

Ledgered
Plotted

Rt Below
315.2
9 50.4 366.8 51.6
138.7 47.7
186.4 99.3 - 1.67
317.2
366.6 49.4
137.8 49.1
186.9 98.5 - 1.69
-1.68

Lt Above
230.6
274.3 43.7
51.3 41.4
92.7 85.1 - 2.05
-1.86
Mean = -1.79

228.0 -1.90
9 58.8 278.6 50.6
9.2 49.1 45.6
9 54.6 95.7 96.2 - 1.95
5 -3.5
14 51.1 G. M. Time.

5024.669
5009.088
+15.561

15.561
27.012
-11.451

Jan 4, 1900

Same again

L.o Above

	231.7		
10 01.6	274.2	42.5	
	49.3	45.6	
	94.9	88.1	-1.96
	229.3		-1.92
	275.3	46.0	
	49.2	45.7	
	94.9	91.7	-1.87

R.o Below

mean = -1.81

	139.4		
	186.7	47.3	
	316.8	49.4	+
	366.2	96.7	-1.74
	138.6		-1.70
10 11.4	187.0	48.4	
13.0	315.9	51.0	
10 06.5	366.9	99.4	-1.66

5 - 35

10 03.0 Gr. M Time

5024.627

5009.058

+15.569

27.012

-11.443

Jan 4, 1900

Phot W o Ceti No 6 6s

2 12 - 3.6
5 55
3 43

R & B.

2328 Plotted.
10 52.2 284.5 51.7+ Ledgered.
54.1 50.4+
104.5 102.1+ - 1.61+
Clouds
233.0 clouds - 1.60+
283.8 50.8+
52.5 51.6+
104.1 102.4+ - 1.60+
B & a.
143.7 mean = - 1.62+
194.5 50.8+
324.0 49.6+
13.6 100.4+ - 1.65+
Clouds
144.5 - 1.64+
11 05.8 194.5 50.0+
118.0 322.8 51.0+
15 59.0 13.8 101.0+ - 1.63+
3.5
15 55.5+ Gr. M. Time
5024.664+

Jan 4, 1900

Same again.

L⊕a
143.8
11 8.4 194.5 50.7
324.4 50.0
14.4 100.7 −1.64

144.0 −1.64
193.5 49.5
322.8 51.6
14.4 101.1 −1.63

R⊕B. mean = −1.62
52.6
104.5 51.9
233.3 50.2
283.5 102.1 − 1.61

53.8 −1.60
11 10.0 104.1 50.3
234 232.4 52.1
11 11.7 284.5 102.4 − 1.60
5 − 35
16 8.2 Gr. M. Time
5024.672 Much troubled by clouds on o Ceti; observations taken through varying clouds but much care exercised.

Jan. 6, 1900 (Saturday)

Set α & Dent.

Bond 394			Ra & Dent 1182		
7	09	00.0	7	10	22.9
7	10	00.0	7	11	23.0

Standards following γ Pegasi

Phot T. α Obs?

Same comp stars as last time 0 7 +45

Rød. 242

330.8 235

7 40.0 353.2

152.2

January 6, 1900

Star f comp with (9.2)

Ledgered

R.O.A.
151.3
749.0 173.4 22.1
328.2 25.7
353.9 47.8 +3.37

150.6 +3.36
175.6 25.0
329.5 23.0
352.5 48.0 +3.36

L.O.B.
62.5 mean = +3.37
83.4 20.9
239.5 27.5
267.0 48.4 +3.34

60.7 +3.38
803.0 83.6 22.9
241.5 24.0
1120
7 56.0 265.5 46.9 +3.41
5 - 1.4

12 54.6 G.M. Time.
5026.538

January 6, 1900

Star, d comp. with (9.2)

Ledgered

	Lo B		
	236.9		
8 10.0	265.7	28.8	
	58.6	25.5	
	84.1	54.3	+ 3.09
	239.4		+ 3.12
	265.0	25.6	
	58.5	27.0	
	85.5	52.6	+ 3.16
	R & a.		
	146.4		Mean = + 3.00
	174.3	27.9	
	326.4	31.1	
	357.5	59.0	+ 2.90
	146.3		+ 2.87
8 19.0	177.3	31.0	
	328.0	29.5	
8 14.5	357.5	60.5	+ 2.84
5 - 1.4			
13 13.1	G. M. Time.		
5026.551			

January 6, 1900

Star comp. with (9 2)

Ledgered.

	RθQ		
	327.5		
8 24.0	357.0	29.5	
	146.2	32.6	
	178.8	62.1	+2.78
	326.2		+2.82
	355.2	29.0	
	146.8	31.2	
	178.0	60.2	+2.85
	f & B.		Mean = +3.04
	240.2		
	264.2	24.0	
	59.8	26.0	
	85.8	50.0	+3.27
	239.8		+3.26
8 35.0	265.0	25.2	
59.0	59.8	25.4	
8 29.5	85.2	50.6	+3.24

5 −1.4

1328.1 Gr. M. Time.

5026.561

January 6, 1900

Left   Star & comp with G. 2

232.4
8 41.0   271.5   39.1   Ledgued
43.6   39.0
92.6   78.1   +2.20

232.1   +2.24
271.8   39.7
52.6   39.1
91.7   78.8   +2.23

Right
140.8   mean +2.15
182.6   41.8
322.4   39.3
361.7   81.1   +2.16

142.4   2.06
8 48.4   192.0   48.6
9.4   322.9   40.0
8 44.7   362.9   88.6   +1.95
5 -1.4
1343.3 Gr. M. Time.
5026.572

January 6, 1900

Star a comp with (g.z)

Ledgered

	Right		
	313.5		
8530	367.3	57.8	
	135.6	57.2	
	186.8	1039	+1.58
	317.2		+1.60
	366.7	49.5	
	135.3	51.9	
	187.2	101.4	+1.62
	Left		
	228.7		mean = +1.65
	276.6	47.9	
	48.4	48.6	
	97.0	96.5	+1.74
	228.3		+1.70
9028	277.6	49.4	
1150	47.1	50.2	
8 57.5	96.3	99.6	+1.67
5 -1.4			

13 56.1 Gr M Time

5026.581

Jan. 6. 1900

Phot W. o Ceti W 6b.

2 12 -3.6
4 45
2 33

	R&B			
	230.7			
9 30.4	286.2	55.5		~~Plotted~~
	53.5	49.4		
	102.9	104.9	-1.54	Ledgered
	233.2			-1.58
	283.0	49.8		
	52.4	57.1		
	103.5	100.9	-1.63	
	LQa.			
	140.2			Means -1.52
	196.3	56.1		
	320.5	55.0		
	15.5	111.1	-1.39	
	142.3			-1.46
9 37.4	193.7	51.4		
7.8	321.8	53.7		
9 33.9	15.5	105.1	-1.53	

5 -1.4
14 32.5 G.M. Time
5026.606

Jan. 6, 1900

Same Again.

L & a.

142.1
939.6 194.9 52.7^{x}
322.4 50.3^{x}
12.7 103.0^{x} −1.58^{x}

142.8 −1.57^{x}
19$\overset{3}{\cancel{4}}$.2 50.4^{x}
321.5 53.6^{x}
15.1 104.0^{x} −1.56^{x}

R & B.

50.5 mean = −1.53^{x}
105.$\overset{4}{\cancel{3}}$ 54.9^{x}
231.4 52.9^{x}
284.3 107.8^{x} −1.47^{x}

5$\cancel{1}$.6 −1.49^{x}
9 46.6 104.1 52.5^{x}
862 23$\cancel{7}$.5 53.7^{x}
9 48.1 285.2 106.2^{+} −1.51
5 −1.4
14 41.7 Gr. M. Time.
5026.612^{+}

Jan. 6, 1900.

Phot T. T. Monocerotis. No 6 b.
9.5 inch cap used.

6 17 +7.2
5 26
0 57
11 03

Above & Left
48.9
10 08.6 95.5 46.6
229.2 46.3
275.5 92.9 −1.84

Plotted

Ledgerd

49.2 −1.87
94.8 45.6
229.5 45.0
274.65 90.6 −1.90
Right & Below
316.6
368.8 52.2
137.1 50.0
187.1 102.2 −1.60

Mean = −1.74

317.0 −1.62
10 17.5 367.3 50.3
26.1 136.6 50.8
10 13.0 187.4 101.1 −1.63
5 −1.4
15 11.6 Gr M Time

5026.633 17.575
5009.058 27.012
+17.575 −9.437

Jan. 6. 1900

Same again

Right & Below

316.5
10 20.2   368.3   51.8
137.0   50.4
187.4   102.2 — 160

318.5   — 1.64
368.8   50.3
138.0   48.9
186.9   99.2 — 1.68

Left & above.

229.7   mean = 1.75
274.1   44.4
48.3   46.6
94.9   91.0 — 1.89

228.9   — 1.86
10 31.6   275.7   46.8
51.8   48.7   45.9
10 25.9   94.6   92.7 — .84
5 — 4.4
15 24.5 G.M. Time
5026 642
5009 058
11 01

+17.584
27.012
-9.428

Pos Angle Ver. a = 88.0
Sprocket wheel a System = 2.5
" " B " = 1.4

January 6, 1900

Same again.

Left & above

231.0
10 49.4 273.5 42.5
49.0 46.0
95.0 88.5 -1.95

226.7 -1.87
275.3 48.6
49.3 46.1
95.4 94.7 - 1.79

Right & Below.

135.6 mean -1.74
187.4 51.8
316.9 50.3
367.4 102.1 - 1.61

137.0 -1.60
10 58.4 188.8 51.8
107.8 316.3 51.3
10 53.9 367.6 103.1 - 1.58
5 -1.4
15 52.5 Gr. M. Time
5026.662
5009.058
+17.604
27.012
½ 9.408

Jan. 6. 1900

Phot T. T. Persei M6b

R & a. 2 8 +57.2

~~1328~~ (vardis 6 28.

~~11 20.6 193.8 61.0~~ 4 · 28

Ledgered

Plotted

R & a.

316.1 (vardis)

11 26.2 369.6 53.5^{+}

133.3 59.6^{+}

192.9 113.1^{+} − 1.35^{+}

313.0 -1.34^{+}

369.2 56.2^{+}

134.2 58.0^{+}

192.2 114.2^{+} -1.32^{+}

L & B.

225.8 mean = 1.44^{+}

277.4 51.6^{+}

46.5 51.6^{+}

97.1 103.2^{+} − 1.58^{+}

225.0 -1.54^{+}

M 31.8 280.5 55.5^{+}

58.0 47.0 50.7^{+}

11 29.0 97.7 106.2^{+} -1.51^{+}

5 − 1.4

16 27.6^{+} Gr. M. time

5026.686

Jan. 6, 1900

Same again

L&B

225.1
11 33.8 279.4 54.3″
45.8 52.4″
98.2 106.7″ - 1.49″

225.2 -1.50″
279.5 54.3″
46.9 51.7″
98.6 106.0″ - 1.07″

R&A

133.3 Mean = -1.42″
191.9 58.6″
315.6 54.7″
370.3. 113.3″ - 1.34″

131.9 -1.34″
11 40.6 191.5 59.6″
74.4 315.4 53.3″
11 37.2 368.7 112.9″ - 1.35″
5 - 1.4
16 35.8 Gr. M. time
5026.692″

Pos. angle Vera = 158.0
Sprocket wheel A System - 4.4
B " - 5.5

January 8. 1900 (Monday)

Comp of chron.

Bond 394 A&Dent
5 38 00.0 5 42 06.0
5 39 00.0 5 43 06.0

Phot. T. DM. 42° 3338 M Obs.

19 20 +43.0
25 17
5 57

L&A.
50.8
6 04 50 94.1 43.3
228.4 47.5
275.9 90.8 -1.89

Plotted.

Ledgered

49.0 -1.92
06 15 95.8 46.8
231.3 41.9
273.2 88.7 -1.95

R&B.
318.0
08 25 365.0 47.0
136.6 50.9
187.5 97.9 -1.71

mean = -1.80

315.2 -1.69
10 25 367.2 52.0
29 55 138.9 47.5
6 07 28 186.4 99.5 -1.67
5 4 7
11 03 21 Gr.M.Time

5028.4607
5028.3010
+0.1597 (.5670)

5028.4607
27.9954
+0.4653 (.5660)

Jan. 8, 1900

II

R+B
319.8
6 12 35 364.8 45.0
136.9 51.0
187.9 96.0 − 176

317.3 −175
14 40 366.7 49.4
138.1 47.1
185.2 96.5 − 174
L+A
229.9 mean = −1.82
17 40 275.6 45.7
50.0 46.4
96.4 92.1 − 186

227.9 −190
19 50 275.4 47.5
24 45 51.3 41.9
6 16 11 93.2 89.4 − 193
5 −4 −8
11 12 3 Gr. M. Time
5028.4667 28.4667
5028.2984 27.9954
+0.1683 +0.4713

January 8, 1900

~~III~~

L & a.

230.0

6 22 25 274.4 44.4

49.7 46.1

95.8 90.5 - 190

228.8 -1.91

24 05 275.8 47.0

51.8 42.6

94.4 89.6 - 192

R & B.

138.7 Mean = -1.80

26 45 185.9 47.2

315.6 51.7

367.3 98.9 - 168

136.4 -1.69

28 20 187.8 51.4

21 35 318.4 46.7

6 25 24 365.1 98.1 -1.70

5 - 4 8

11 21 16 Sd M Time

5028.4731 5028.4731

5028.2984 27.9954

+0.1747 +0.4777

January 8, 1900

IV

R & B.

138.6

6 30 05 185.6 47.0

317.0 49.5

366.5 96.5 − 1.74

136.9 −1.73

34 35 186.5 49.6

317.7 48.0

365.7 97.6 − 1.72

L & A.

50.6 mean = −1.78

37 50 95.2 44.6

228.0 47.1

275.1 91.7 − 1.87

50.0 −1.84

39 50 95.6 45.6

22 20 227.6 48.4

6 35 35 276.0 94.0 − 1.81

5 −4 −8

11 31 27 Gr. M. Time

5028.4802 28.4802

5028.2984 27.9954

+0.1818 0.4848

January 8, 1900

V

L & A

50.5

6 44 40 95.0 44.5+

229.6 46.0+

275.6 90.5+ − 1.90+

50.0 −1.88+

47 55 95.0 45.0+

229.3 47.3+

276.6 92.3+ − 1.85+

R & B mean = −1.79+

~~317.8~~

~~5 2 35~~ ~~366.5~~ ~~48.7~~

137.5

5 4 00 186.3 48.8+

50.0+

317.3 98.8+ − 1.69+

367.3

137.0 −1.70

56 20 187.1 50.1+

202 55 318.2 48.0+

6 50 44 366.2 98.1+ − 1.70+

5 − 4 9

11 46 35+ G.M. Time

5028.4907+ 5028.4907+

5028.2984 27.9954

+0.1923+ 0.4953+

January 8, 1900

VI

R & B.

136.4

7 08.00 187.7 51.3

318.5 48.9

367.4 100.2 – 165

137.1 –1.66

12 30 186.5 49.4

316.7 49.6

366.3 99.0 – 168

L & A.

49.4 mean = –1.72

15 55 96.7 47.3

228.1 48.1

276.2 95.4 – 177

49.6 –1.78

18 35 94.7 45.1

55 00 227.6 50.0

7 13 45 277.6 95.1 – 178

5 – 4 10

12 09 35 Gr. M. Time.

5028.5066 5028.5066

5028.2984 5027.9954

+0.2082 +0.5112

January 8, 1900

VII

L & a.
48.5
7 24 15 95.5 47.0
228.2 47.4
275.6 94.4 - 180

49.6 -1.76
26 35 95.3 46.7
227.5 51.0
278.5 97.7 - 1.71
R & B.
316.6 mean= -1.71
30 10 366.8 50.2
137.7 48.9
186.6 99.1 - 168

316.7 -1.66
32 35 366.7 50.0
11 3 35 136.4 51.1
7 28 24 187.5 101.1 - 163
5 -4 11
12 24 13 Gr. M. Time.
5028.5068 28.5168
5028.2984 27.9954
+0.2084 +0.5214

January 8, 1900

R & B. VIII.

318.4

7 36 00 365.5 47.1+

137.3 49.5

186.8 96.6 — 1.74

317.4 -1.72+

37 40 366.5 49.1

137.7 49.2

186.9 98.3 — 1.70

L & a.

~~278.4~~ mean = -1.76+

~~40 30~~ ~~276.4~~

49.4

42 00 95.7

46.3

228.9 47.9

276.8 94.2 — 1.80

49.8

44 00 96.2 46.4 -1.80

159 40 228.2 47.4

7 39 55 275.6 93.8 — 1.81

5 - 4 11

12 35 44 Gr M Time. Pos. angle Vera 213°.2

5028.5248+ Sprocket a System - 4.4

5028.2984 28.5248 " B " - 3.5

+0.2264+ 279954 1 " - 2.9

+0.5294

January 8, 1900

Bond 394 a ~~#~~ Dent, 182
8 49 00.0 8 53. 14.5
8 50 00.0 8 54 14.6

Phot T. T. monocerotis w Obs.

6 17 +7.2
3 47
2 30
9 30

9.5 inch cap used. I

L & a

230,0 Var. dis.

8 36.6. 276.3 46.7+ Plotted
49.8 45.2+ Ledgered
95.0 91.5+ - 1.87+

229.2 - 1.82+
275.8 46.6+
48.1 48.4+
96.5 95.0+ - 1.78+
R & B mean - 1.74+

137.2
186.9 49.7+
318.9 48.3+
367.2 98.0+ - 1.71+

137.1 - 1.67+
8 ~~#~~ 46.8 187.3 50.4+ 5028.568' ~~50~~
834. 317.0 50.7+ 5009.058'
8 41.7 367.9 101.1+ - 1.63+ +19.510'
5 - 4.2 27.012
13 375 Gr. M. Time -7.502+

January 8, 1900

Same again.

R & B.
136,8
8 49.8 187.1 50.3+
316.5 51.1+
367.6 101.4+ −1.62+

136.3 −1.62+
187.3 51.0+
317.0 50.0+
367.0 101.0+ −1.63+
L & A.
47.9 mean = −1.71+
95.5 47.6+
228.5 48.3+
276.8 95.9+ −1.76+

49.5 −1.80+
9 01.0 95.1 45.6+
110.8 229.0 46.7+
8 55.4 275.7 92.3+ −1.85+
5 −4.2
13 51.2 Gr M Time
5028.577+
5009.058
+19.519+
27.012
−7.493+

January 8, 1900

Same again

L & a.

229.5

9 11.4 270.5 46.0°

49.3 45.8°

95.1 91.8° - 1.87

228.6 -1.86°

274.8 46.2°

49.2 45.9°

95.1 92.1° - 1.86°

R & B.

136.9 mean = -1.76°

187.7 50.8°

316.5 50.0°

366.5 100.8° - 1.64°

-1.66°

138.6 48.0°

9 20.0 186.6 50.9° -

31.4 315.9 98.9° 1.68°

9 15.7 364.8

5 -4.2

14 11.59 m time

5028.592

5009.058

+19.534

9 30

27.012

-7.478

Pos Angle Ver. a - 87°4

Sprocket wheel a System - 2.5

" " B " - 1.4

January 8, 1900

Phot W. o Ceti W. Obs.

2 1 2 - 3.6
5 2 2
3 10

R o B. Plotted

Ledgered

+ 230.0
10 03.4 287.6 57.6+
51.2 54.1+
105.3 111.7 - 1.38+

229.8 -1.38+
285.4 55.6+
50.9 56.6+
107.5 112.2+ - 137+

L & A.

141.9 mean = -1.43+
195.7 53.8+
321.9 53.8+
15.7 107.6+ - 147+

143.0 148+
10 11.0 195.1 52.1+
14.4 321.3 55.4+
10 7.2+ 16.7 107.5+ - 148+
5 - 4.2
15 3.0+ G. M. Time.
5028.627+

Jan. 8, 1900.

Same again.

L & a.

	140.8			
1024.2	196.2	55.4		
	320.6	54.8		
	15.4	110.2 −	1.41	
				−1.40
	140.3			
	196.1	55.8		
	320.8	55.8		
	16.6	111.6 −	1.38	

R & B.

	50.3		mean =	−1.41
	106.9	56.6		
	231.7	53.2		
	284.9	109.8 −	1.42	
				1.42
	50.2			
10 31.0	105.0	54.8		
55.2	230.1	55.7		
10 27.6	285.8	110.5 −	1.41	

5 −4.2

15 23.4 Gr. M. time.

5028.641

January 8th, 1900

Circumpolar Var.

W.6 b2

S Bootis

14 16 +54.6

6 .0 Posted.

8 06

3 54 ✓

~~10 55 g 3 var, var 1.5 h Est. 10.4~~

11 00 h 1.5 var, var 3.5 k Est 10.5

Power 270 used.

January 9, 1900 (Tuesday)
Sett A & Dent 1182
Comparison of Chronometers.

Bond 394			A & Dent 1182		
5	20	00.0	5	19	35.0
5	21	00.0	5	20	35.0

Phot T. Ceraskis Variable. M Obs

20 8 +46.3
25 12
5 4

Clouds

L & B

141.0

comp star

5 54 20 187.0 46.0

321.6 400

361.6 86.0 +202

Plotted
Ledgered

I

142.8

+202

08 40 ~~187.0~~ 3.7 40.9

319.5 44.8

364.3 85.7 +203

R & A

6 02 05 51.3 mean = +207

92.4 41.1

232.6 40.9

273.5 82.0 +2.14

51.3 +2.12

05 55 92.7 41.4

241 00 230.9 42.3 5029.4587

6 00 15
5 + a + 23 273.2 83.7 +209 5029.3954
11 00 38 G. M. Time +0.0633

January 9, 1900

FF

R+~~B~~ a

6 11 15 49.3
93.1 43.8
231.4 42.7
274.1 86.5 +2.01

48.8 +1.96
93.4 44.6
15 30 229.1 46.0
275.1 90.6 +1.90

L+B

318.2 Mean = +1.86
366.6 48.4
20 45 138.6 46.3
184.9 94.7 +1.79

318.6 +1.76
23 30 365.6 47.0
7' 00 136.8 50.0
6 17 45 186.8 97.0 +1.73
5 +0 21
11 18 06 Gr. M. Time
5029.4709
5029.3954
+0.0755

January 9, 1900

~~III~~

L & Q

136.0
6 2945 189.1 53.1*
315.9 44.1*
370.0 107.2* +1.48*

134.8 +1.58*
6 3240 187.6 52.8*
314.3 46.5*
370.8 99.3* +1.67*

Mean = +1.65*

R & Q 3

−38.8
6 3800 97.1 48.8
229.4 47.5
276.9 96.3 +1.75

47.0 +1.72
6 4100 95.8 48.8
14 1 25 226.5 50.2
6 35 21 276.7 99.0 +1.68
5 + 0 + 20
11 35 41 G.M. time

5029.4831*
5029.3954
+0.0877*

January 9. 1906

IV

R & a
44.6
6 49 20 97.3 52.7
226.6 51.8
278.4 104.5 + 1.55

45.5 + 1.52
6 54 00 97.7 52.2
224.5 55.0
279.5 107.2 + 1.48
S & B
310.6 mean = + 1.26
6 58 25 13.8 63.2
129.3 63.3
192.6 126.5 + 1.05
Clouds
309.3 + 0.99
7 02 20 15.7 66.4
224 05 128.7 66.1
6 56 01 194.8 132.5 + 0.93
5 0 19 Clouds Stars gone.
11 56 20 G.M. Time.
5029.4974 Stopped by clouds.
5029.3954 Troubled somewhat by light cloud in
+0.1020 settings ~~var. getting somewhat low and rather.~~
Settings somewhat difficult throughout
on account of faintness of star [illegible] moonlight

January 9, 1900

and decreasing off. Settings made with much care and thought to be good. V

7 21 00.0 7 20 42.5
7 22 00.0 7 2? 42.5

Pos-Angle 281.8
Sprocket w R&B System − 1.5
" " C − 0.4

Phot T. T. Monocerotis n 6b.

6 17 + 7.2
Full aperture used 3 06
3 17
8 ~~4~~3

Clouds
48.7 L&A.
7 52.0 93.2 44.5
228.5 45.2
273.7 89.7 − 1.92
Clouds
48.9
92.7 43.8 Reject. −1.92
229.5 46.3
275.8 90.1 − 191
316.4 R&B. mean = −1.78
367.8 51.3
137.0 49.2
186.2 100.5 − 165
317.1 .164
8 00.6 366.3 49.2
138.1 51.6
189.7 100.8 − 1.64

Jan. 9. 1900

Same again

R&B.

317.9
8 03.4 366.0 48.1
138.2 46.2
184.4 94.3 − 1.80

318.7 −1.76
365.6 46.9
137.2 50.4
187.6 97.3 − 1.72

L&A.
Reject
mean = 1.85
231.6
276.0 44.4
50.4 43.4
93.8 87.8 − 1.97

229.7 −1.94
8 08.8 276.1 46.4
12.2 50.0 44.0
8 6.2 94.0 90.4 − 1.90
5 +4
13 66 Gr. mt.

Reject two previous groups, in the first, it was extremely cloudy and obs. very uncertain, and in the second, the 9.5 in. cap. was accidentally left left off and images so bright as to make obs. uncertain.

Jan. 9, 1900

9.5 in. cap used on following.

L & a. Same again

Plotted.

Ledgered

48.8
8 26.0 95.0 46.2+
229.3 47.3+
276.6 93.5+ − 1.82+

−1.88+

49.9
95.4 45.5+
231.1 43.9+
275.0 89.4+ − 1.93+
R & B

mean = −1.76+

315.7
368.5 52.8+
137.5 49.6+
187.1 102.4+ − 1.60+

−1.64+

316.9
8 35.6 366.6 49.7+
61.6 137.5 49.6+
8 30.8+ 187.1 99.3+ −1.67+
5 +.4
13 31.2 Gr. M. Time.
5029.563+
5009.058
+20.505+
27.012
−6.507

Same

January 9. 1900

Same again. IV

Plotted

Ledgered

R+B
315.9
8 38.0 368.1 52.2
137.0 50.7
187.7 102.9 − 1.59

316.9 −1.62
367.9 51.0
137.7 48.8
186.5 99.8 − 1.66

L+Q. mean = −1.76
229.6
274.8 45.2
49.3 44.9
94.2 90.1 − 1.91

229.0 −1.90
8 50.4 275.2 46.2
88.4 48.9 45.0
8 44.2 93.9 91.2 1.88
5 +4
13 44.6 G.M.T. Pos Angle Ver. A. 267.6
5029.572 Sprocket wheel A System −2.3
5009.068 " " B " −1.5
+20.574
27.012
−6.438

Jan. 9, 1900

Phot W. o Ceti m6.6

2 12 3.6
4 59
2 47

L & a

Plotted

Ledgered

3220
9 38.6 168 56.8
141.4 52.4
193.8 109.2 −1.44

320.4 −1.41
166 56.2
141.4 55.4
196.8 111.6 −1.38

R & B

229.3 mean = −1.40
288.9 59.6
51.6 52.3
103.9 111.9 −1.37

232.6 −1.40
9 45.4 286.0 53.4
8 4.0 49.9 56.7
9 42.0 106.6 110.1 −1.42
5 + .4
14 42.5 Gr. M. Time
5029.612

Jan. 9, 1900

Same again

R&B

~~230.1~~

9 ~~47.6~~ ~~287.1~~

517 Clouds.

9 56.4 105.0 53.3^{+}

230.5 58.2^{+}

287.7 111.5^{+} - 1.38^{+}

49.1

107.5 58.4^{+} -1.37^{+}

231.7 54.2^{+}

285.9 112.6^{+} - 1.36^{+}

L&a.

321.6 means -1.40^{+}

15.1 53.5^{+}

140.9 55.0^{+}

195.9 108.5^{+} - 1.45^{+}

319.6 -1.44^{+}

10 03.0 16.4 $.56.8^{+}$

119.4 142.3 53.0^{+}

9 59.7 195.3 109.8^{+} - 1.42^{+}

5 -.4

15 00.1 G.M.T. Obs made through somewhat thin cloud

5099.623^{+}

Jan 9, 1900

~~Phot T. R Ursae Min. Mr Obs.~~

R Lyncis.

6 49 + 55.1 Mr Obs.

5 47   6 49

1 02   5 55

10 58   0 54

clouds.   11 06

R Aurigae Mr Obs.

5 3 + 53.0

5 59   Posted on

0 56   Bulletin

10 40   0 4 var, var 1 p

I in large tel.

Too faint for Bradley.

Phot T.   T. Monocerotis Mr Obs.

9.5 cap used.

6 17 + 7 2

6 13

0.4

see next page.

Jan. 9, 1900

T. Monocerotis

Plotted.
Ledgered

L a a.
230.3
10 53 00 275.3 450.
49.5 45.~~4~~ 2
9~~3.9~~ 90.2 – 1.91
4.7

229.7 1.93
274.3 446
49.3 441
93.4 88.7 – 1.95

R a B.
138.2 mean – 1.7~~7~~ 9
187.1 48.9
318.0 49.7
367.7 98.6 – 1.69

136.9 –1.65
11 02 00 187.8 50.9
11 5 00 317.1 51.2
10 57 30 368.3 102.1 – 1.61
5 +20
10 57 50 Gr M Time.
5029.665
5009.058
+20.607
27.012
–6.405

Jan 9, 1900.

Same again.

Plotted
Ledgered

R&B.

11 05 00 137.5
186.9 49.4
316.8 51.5
368.3 100.9 − 1.63
136.3
~~187.2~~ 317.5 50.2 1.62
~~318.3~~ 367.7 51.2
~~36~~ 1368 101.4 − 1.62
~~Left~~ o a. 188.0

229.2 mean = −1.77
275.1 45.9
49.5 44.2
93.7 90.1 − 1.91

230.1 −1.92
11 17 30 273.9 43.8
22 30 49.2 45.5
11 11 15 94.7 89.3 1.93
5 +20
16 11 35 G. M Time
5029.675 Pos. Angle Ver A. 267.8
5009.058 Sprocket wheel A System −2.5
+20.617 " " B " −1.4
27.012
−6.395

January 10, 1900 (Wednesday)

Comp of chronometers.

Bond 394	A & Dent
5 58 00.0	5 59 06.5
5 59 00.0	6 00 06.6

R Lyncis. N Obs.

6 49 +55.1
1 45
5 04
6 56

Posted on Bulletin. ✓

6 25 k 5 var, var 1 gr Est 12.4

Phot. T. T. Monocerotis N Obs.

6 17 +7.2
2 05
4 12
7 48

Object glass diaphramed down to 9.5 inches.

See next page for measurements.

January 10, 1900

T Monocerotis

L o A.

Plotted
Ledgered

49.6
6 4~~1~~20 93.4 43.8
231.~~7~~8 43.1
274.9 86.9 - 2.00

49.3 -1.96
93.0 43.7
229.8 45.8
275.~~7~~6 89.5 - 1.93

R o B.

317.9 mean = - 1.81
367.3 49.4
137.0 49.9
186.9 99.3 = 1.67

317.0 -1.66
653.0 367.3 50.3
95.0 137.3 49.3
6475 18~~7~~6.7 99.6 - 1.66
5 -1.1
11 46.4 Gr M Time
5030.490
5009.058
+21.432
27.012
-5.580

January 19, 1900

Same. Again.

R & B.
318.0
6 55.0 367.4 49.4
136.9 50.8
187.9 100.2 − 1.65

318.2 1.66
367.5 49.2
136.5 50.5
187.0 99.7 − 1.66

L & A. mean = 180

230.2
275.3 45.1
49.4 44.9
94.3 90.0 − 1.91

−1.93
230.5
7 04.6 275.2 44.7
15 9.6 50.4 44.0
6 59.8 94.4 88.7 − 1.95
5 −1.1

11 58.7 Gr M time Position Angle Ver. a. 267.6
5030.499 Sprocket Wheel a System −2.5
5009.058 " " β " −1.5
+21.441
27.012
−5.571

January 10, 1900

Phot. W. o Ceti. W Obs.

2 12 -3.6
3 05
0 53

Plotted.
Ledgered

L&R
140.6
319.9 55.3
7 35.8 319.7 56.6
316.3 111.9 -1.37

140.2 -1.38
196.1 55.9
319.7 55.6
15.3 111.5 -1.38

R&B
51.8 Mean -1.39
105.7 53.7
229.9 55.4
285.3 109.1 -1.44

49.0 -1.40
7 43.6 107.8 58.8
79.4 230.7 54.1
7 39.7 284.8 112.9 -1.35
5 - 1.1

12 38.6 Gr. M. Time
5030.527

January 10, 1900

Same again.

R & B.
51.3
7 46.0 106.3 550
229.0 57.2
286.2 1122 -1.37
49.3
107.0 57.7 -1.36
229.5 55.9
285.4 113.6 -1.34

L & A mean -1.38
321.5
15.2 53.7
140.1 55.8
195.9 109.5 -1.43

319.7 -1.40
7. 54.4 17.1 57.4
100.4 140.5 55.1
7 50.2 195.6 1125 -1.36
5 -1.1
12 49.1 Gr M Time
5030.534

January 10, 1900

Phot T. R Ursae min. W 6b.

16 34 +72.9

3 48

12 46

0 14

Abandoned for ~~the~~ present.

Phot T. λ Tauri. cap 6.5 in W 6b. used.

3 53 +12.1

Above

3 55

246.7 0 02 I

8 40 35 257.8 11.1 Ledgered

66.5 10.4

76.9 21.5 - 5.13

247.8 - 5.21

43 25 258.0 10.2

67.0 9.8

76.8 20.0 - 5.29

Below

156.0 mean = - 5.04

46 10 168.8 12.8

335.6 12.3

347.9 25.1 - 4.80

156.8 - 4.86

50 00 168.6 11.8

180 10 335.9 11.9

8 45 03

5 - 1 - 17 347.8 23.7 - 4.92

13 43 45 Gr. M. Time.

50 30.

January 10, 1900

Same again. II

Below
156.6
8 56 40 168.2 11.6
335.1 13.7
348.8 25.3 - 4.78

156.1 -4.83
58 50 168.2 12.1
336.0 12.0
348.0 24.1 - 4.88
Above Mean = -5.02
66.7
9 02 30 77.1 10.4
248.0 9.9
257.9 20.3 - 5.26

66.1 -5.22
05 15 76.2 10.1
243 15 246.8 10.8
9 00 49 257.6 20.9 - 5.19
5 - 1 - 18
13 59 31 Gr M Time
5030

January 10, 1900

III

Above

66.8

9 10 55 76.8 10.0

248.0 9.3

257.3 19.3 − 5.37

66.9 −5.32

9 13 30 76.4 9.5

247.0 10.6

257.6 20.1 −5.28

Below

~~Mean 5.15~~ 3

336.0

9 16 35 348.0 12.0

156.5 10.7

167.2 22.7 − 5.01

336.3 −4.98

9 18 30 348.0 11.7

19 30 156.2 12.3

9 14 52 168.5 24.0 − 4.89 ~~4.88~~

5 − 1 − 19

14. 13. 33 Gr. M. Time.

5030.

Mean = − 5.14

January 10, 1900

IV

Below

336.6
9 25 40 348.0 11.4
156.3 11.7
168.0 22.1 -5.07

336.3 -5.00
9 27 40 347.8 11.5
156.0 12.0
168.0 23.5 -4.94

+
~~-5.18~~

Above

247.1
9 30 15 257.6 10.5
66.6 10.2
76.8 20.7 -5.22

247.6 2
9 34 05 257.4 9.8 -5.2~~6~~
117 40 66.6 10.8 23
9 29 25 ~~76.6~~ 20.6 ~~76~~ -5.~~29~~ Mean = -5.11
5 -1 20 7.4
14 28 05 G.M.T. Troubled somewhat by clouds
5 0 30 in above group.

January 10, 1900

V

Above
246.5
9 48 40 257.6 11.1
66.6 9.9
76.5 21.0 — 5.18

247.6 5.20
57 10 257.6 10.0
66.4 10.6
77.0 20.6 — 5.23
Below
156.0 mean = 5.08
5 40 00 167.9 11.9
336.4 11.3
347.7 23.2 — 4.97

-4.96
156.5
56 10 167.5 11.04
210 00 336.2 12.4
9 52 30 347.6 23.4 — ~~4.97~~ 5
5-1-21 8.7
14 57 09 Gr. M. Time Pos-angle per a 295.7
5080.
Sprocket wheel a system, 2.5 (app
" " B " 13.5 (good
C " 14. (app.)

January 10, 1900

Phot R M. V. 441 W 6 G.

3 31 +62.8

5 45

2 14

Abandoned.

R Cassiop W 6 G.

23 52 +49.7 ✓

29 55

6 03 Posted on Bulletin

10 25 u 35 var, var 2 W Est 12.7

Phot T. T. Monocerotis. W 6 G.

9.5 inch cap used.

6 17 +7.2

6 07

0 10

11 50

See next page for meas.

January 10, 1900

T. Monocerotis

Plotted

Ledgered

Above
333.5
1041.4 ~~3~~18.3 44.8
154.1 43.4
197.5 88.2 − 1.96

−1.94

333.5
17.6 44.1
151.8 45.7
197.5 89.8 − 1.92

Below
mean = 1.80
240.8
288.9 48.1
59.3 51.1
190.4 99.2 − 1.68

−1.66

239.8
10 49.0 291.7 51.9
10.4 61.3 48.3
10 45.2 109.6 100.2 − 1.65
5 −1.1
15 44.1 Gr. M. Time
5030.656
5009.058
+21.598
27.012
−5.414

Jan-10, 1900

Same again -

Below
241.2
10 50.6 290.2 49.0
61.7 48.7
110.4 97.7 - 171

240.8 -171
291.2 50.4
61.8 47.6
109.4 98.0 - 171
Above
154.0 mean = 1.83
196.8 42.8
33 210 46.3
18.3 89.1 - 194
152.4
10 58.8 197.6 45.2 -195
9.4 335.2 43.0
10 54.7 18.2 88.2 - 196
5 -1.1 Pos Angle Ver. a. = 267°.6
15 53.6 Gr M Time Sprocket wheel a System 2.5
50 30.662 " " B " ~1.24
50 09.058
+21.604
27.012
-5.408

Jan. 15. 1900. Monday.

T Monocerotis. Phot. T. W. ok.

6	17	+7.2
4	27	
1	20.	
10	40	

8 30 Cloudy

9 00 Cloudy

9.05 Sky thickly cloudy no chance for any work.

Bond 394	A & Dent
21 05 00.0	21 13 51.0
21 06 00.0	21 14 51.0

Bond 394	Set A & Dent A & Dent
21 08 000	21 05 01.0
21 09 000	21 06 01.0

Jan. 1~~7~~6, 1900. (Tuesday)

Bond 394 — α & Decl

6 00 000 — 5 57 28.7

6 01 000 — 5 58 28.7

T. Monocerotis Phot. T. M.Obs.

6 17 +7.2

2 10

4 07

7 53

9.5 cap used ~~used~~ on following groups on T. Monocerotis.

L & α

Ledgered

Plotted

341.6

6 21.6 — 10.0 — 28.4*

16~~3.3~~2.9 — 26.4*

189.3 — 54.8* — 3.07*

342.1

10.0 — 27.9* — 3.04*

161.4 — 28.6*

191.0 — 56.5* — 300*

~~120~~ 13.

249.2

282.8 — 33.6*

Mean = −2.83

67.0 — 35.2*

102.2 — 68.8* — 2.55*

1

250.0

6 30.4 — 281.1 — 31.1* — 2.62*

52.0 — 69.3 — 33.5*

6 26.0

5 +2.5 — 102.8 — 64.6* — 2.69*

5036.478* — 27.012

5036.070 — 0.408

+0.408 — 26.604

11 28.5 Gr. M. Time

Jan. 16, 1900.

R & B. Same Again.

24~~7~~8.3

6326 281.4 33.1*

69.8 33.1*

10 3.9 66.2* − 2.64*

249.0 - 2.60*

28 2.8 33.8*

68.5 34.6*

10 3.1 68.4* − 2.56*

L & A.

161.5 Mean − -2.78*

190.6 29.1*

341.5 28.8*

10.3 57.9* − 2.94*

160.8 - 2.96*

6404 190.5 29.7*

73.0 342.9 27.1*

6365 10.0 56.8* − 2.98*

5+25

11 29.0 Gr M Time

5036.485

5036.070

+0.415 = Phase.

27.012

- 26.597

Jan. 16, 1900.

Same again - III

L & A.

161.8

6 51.0 189.8 27.0

342.6 27.4

10.0 54.4 - 3.08

161.6 - 3.01

190.8 29.2

341.7 28.6

10.3 57.8 - 2.94

R & B.

69.7

103.2 33.5 Mean = -2.84

250.5 31.7

282.0 65.2 - 2.67

69.2

6 58.4 102.1 - 2.67

9.4 249.6 32.9

6 54.7 282.0 32.4

5 42.5 65.3 - 2.67

11 57.2 Gr. M. Time. Pos. Angle Ver. A. 87.6

5036.498 Sprocket Wheel A System - 2.5

5036.070 " " B " -1.4

+0.428 Moon about at the full, settings made with

27.012

-26.584 much care.

Jan. 16, 1900

o Ceti. Phot. Mr. Mr Ch.

2 12 -3.6

3 45

1 33

L+A. Plotted

314.7

7 52.4 17.8 63.1 Ledgered

137.7 59.4

197.1 122.5 - 1.14

316.2 -1.18

14.9 58.7

136.1 60.2

196.3 118.9 - 1.22

R+B Mean = -1.17

225.6

285.7 60.1

46.3 59.9

106.2 120.0 -1.19

225.7 -1.16

7 58.0 28 69 61.2

10.4 45.8 61.0

7 55.2 106.8 122.2 - 1.14

5 +2.5

12 07.7 G.M. time

5036.540

Jan. 16, 1900.
~~Sprocket~~ 4

Same again.

R+B

	224.8		
8 00.5	287.6	62.8	
	47.0	60.4	
	107.4	123.2	− 1.12
			2
	226.5		−1.13
	286.5	60.0	
	47.3	63.1	
	107.4	123.1	− 1.13

L&A. Mean = − 1.16

	136.4		
	197.4	61.0	
	316.7	59.1	
	$1\overset{5}{6}.8$	120.1	− 1.19
	137.4		−1.18
8 10.5	195.8	58.4	
11.0	314.9	62.2	
8 55	17.1	120.6	− 1.18

5 +2.5

13 8.0 Gr. M. Time

5036.547

Final Mean = (−1.16)

Jan. 16, 1900.

Phot M. Σ 46 55 Piscium M 6 h

0 33 +20.8
4 33
4 00

Pos ang. 2.5° Dist 6 secs.

magns. 5.6 & 8.2 Power 135, 1 in eyepiece

L & a.

62 3 ∠ bright dis.
8 34.0 90.3 28.0
245.9 20.6
266.5 48.6 − 3.33

65.5 − 3.27
86.9 21.4
240.7 20.1
270.8 57.5 − 3.21

RMB.

333.0 mean = −3.32
358.7 25.7
156.2 20.5
176.7 46.2 − 3.45

336.2 − 3.38
8 43.4 357.4 21.2
77.4 152.0 28.0
8 38.7 180.0 49.2 − 3.31
5 +2.6
13 41. 2 G.m.t.

Stars rather close & difficult, images reversed nearly over each other, but when compared cannot be much care exercised however & setting thought to be pretty good. nadir quite equidistant from bright component but nearly so

Jan. 16, 1900.

Phot M.

Σ 131   1 25   +60.0   M 6 h.

4 55

3 30

Pos angle 125 Dist 12 sec.

Magns 6.2 & 9.4 This seems to be most probably ~~the~~ double star wanted. It is ~~the~~ a double in ~~the~~ northern & preceding corner of a cluster of stars.

Below

9 ~~0~~6.5   2497/1 Brighter dis.

~~273.0~~

~~63.0~~

~~9~~

Abandoned altitude too high reject

2

2

6

Σ 281   Phot M   M 6 h

~~Above~~

2 28   +5.0

5 20

2 52

Pos. angle 85° Dist. 7 secs.

Magns. 5.0 & 9.6

9

See next page for meas.

Jan. 16, 1900

Σ 281

Right

132.7
9 27.0 144.5 11.8
313.2 10.9
324.1 22.7 − 5.01

133.0 − 4.95
144.6 11.6
312.4 12.4
324.8 24.0 − 4.89

Left

429 Mean = − 4.90
546 11.7
222.7 11.7
234.4 23.8 − 4.92

1
426 − 4.84
9 37.6 54.6 13.0
221.8 12.6
32.3
234.4 25.6 − 4.75
95 42.5

14 34.8 G.M.T.
5086.

Observations ~~very~~ difficult from faintness of companion bright moonlight somewhat low altitude and rather poor seeing due to low barometer, storm just recently cleared Power 270 used

Jan. 16, 1900

Phot R. m. P. 441 W Obs.

3 31 +628

5 48

L & A. 2 17

257.1 Lwardie Lodgered

9 58.0 307.5 50.4

72.6 60.6 Plotted

133.2 111.0 — 1.39

248.8 — 1.34

313.1 64.3

76.4 57.8

128.2 116.1 — 128

R & B.

+ mean = — 1.30

165.9

210.9 50.0

337.6 67.2

44.8 117.2 — 1.25

160.2 — 1.26

10 04.0 225.2 65.0

1220 346.8 50.9

10 01.0 37.7 110.9 — 1.28

5 + 2.5

15 3.5 G. M. Frime

5036.628

Jan. 16, 1900

Same Again

	R & β.		
	164.8		
1005.6	217.8	53.0	
	340.2	64.3	
	44.5	117.3	-1.25
	158.5		-1.24
	224.2	65.7	
	345.8	52.7	
	38.0	118.4	-1.23
	L & R		
	75.5		Mean = -1.19
	128.3	52.8	
	247.8	69.3	
	317.1	122.1	-1.14
	66.6		-1.14
1010.0	136.6	70.8	
15.6	255.6	52.9	
1007.8	308.5	122.9	-1.13
5 +25			

10 10.3 Gr. M. Time.   Final Mean = -1.24

5036.632

Jan 16, 1900

R Ursae Min. Phot. T. W.6b.

16 3K +72.9
6 34
10 00
2 00

Tail piece has stuck so that
R Ursae Min cannot be measured.

Σ 5-18

Phot K 4 10 -7.8 W.6b.
6 46
2 36

Pos. Angle, 120° Dist 1′.5 Magns 4.2, 91

Right
95.3 ∠ br. dis.

10 494 107.1 11.8
274.1 14.5
288.6 26.3 -4.69
93.6
108.4 14.8 -466
275.6 12.4
288.0 27.2 -4.62

Left
5.8
16.8 11.0 Mean = -4.71
184.0 14.3
198.3 25.3 -4.78
4.5
10 534 18.1 13.6 -4.76
1028 185.0 12.3
10 51.4
5 +2.5 197.3 25.9 -4.73
15 53.9

Jan 19, 1900. (Friday)

Bond 394 R θ ~~Dec~~
6 58 00.0 6 59 19.5
6 59 00.0 7 00 19.5

Phot.? τ Monocerotis. W Obs.
9.5 in cap used tonight on observations of above star.

6 17 +7.2
3 17
3 00
9 00

L θ a

340.1
7 25.5 13.7 33.6 Reject this first group
161.7 30.9 on account of fog
192.6 64.5 − 2.69 Obs very uncertain,
339.4
13.1 33.7 −2.64
159.5 33.6
193.1 67.3 − 2.60
R θ B
250.2 mean = −2.66
282.8 32.6
70.0 30.8
100.8 63.4 − 2.73
250.5
7 36.5 281.1 30.6 −2.68
62.0 68.2 33.5 5039.521 27.012
7 31.0 3.451
5 −1.3 103.7 66.1 − 2.64 5036.070 −23.561
12 29.7 Gr. M. Time +3.451

Jan. 19 1900

Same Again.

R & B.
248.6
7 39.0 283.8 35.2
68.6 34.3
102.9 69.5 -2.52

Ledgered
Plotted

248.6 -2.51
282.9 34.3
68.4 35.9
104.3 70.2 — 2.50
L & A
160.1 mean = -2.62
192.1 32.0
339.2 33.3
12.5 65.3 — 2.67

160.1 -2.72
7 49.0 192.0 31.9
341.2 30.8
7 44.0 12.0 62.7 — 2.76
5 - 1.3
12 42.7 Gr. M. Time.
5039.530
5036.070
+3.460
27.012
-23.552

January 19, 1900

Same Again

Ledgered
& Plotted

L & a.
160.8
801.0 190.8 30.0
338.5 34.4
12.9 64.4 - 2.70

159.6 -2.68
193.2 33.6
340.3 31.6
11.9 65.2 - 2.67
R & B.
67.9 mean = - 2.58
104.1 36.2
248.5 35.5
284.0 71.7 - 2.45

68.6 = 2.49
809.0 103.5 34.9
248.8 34.3
805.0 283.1 69.2 - 2.53 Final mean = - 2.60
5 - 2.3 Position Angle Vernier a 87.6
1302.7 G.M.T. Sprocket wheel a System = 2.5
5039.544 " B " - 1.4
5036.070
+3.474 Troubled by foggy conditions on settings
27.012 above.
-23.538

January 19, 1900

Phot T. λ Tauri W Obs.

3 51 +12.1
4 31
0 40

I

P.A.
348.6
8 39. 10 360.7 12.1
171.8 9.7
181.5 21.8 –

34 ,
3 ,
1 ,
1 . Reject above settings.

R&B. on λ Tauri.

Impossible to finish group moisture
8 45 running all over walls, dome, instrument and everything reeking with moisture. Object glass ~~now~~ covered with dew. Images in telescope now very bad and settings uncertain.

8 50 Sky now thickly covered by foggy cloud.

9 30 Sky thickly cloudy no chance for anything farther.

January ~~17~~ 22, 1900. (Monday)

Comp of Chronometers: ~~958~~
Bond 394 — a & ~~Dent 1182~~
6 08 00.0 — 6 13 16.7
6 09 00.0 — 6 14 16.7

Phot 7. χ Cygni W6s.
19 45 +32.6
26 40
Laa 6 55

349.3 < comp star dis

Plotted
Ledgered

6 36.0 362.5 13.2
169.1 11.2
180.3 24.4 + 4.86

348.2 +4.83
362.0 13.8
169.7 11.2
180.9 25.0 + 4.80

RaB.
259.1 mean = +4.78
271.7 12.6
78.8 13.1
91.9 20.7 + 4.74

259.0 +4.73
6 47.0 272.7 13.7
813.0 79.0 12.3
6 41.5 91.3 26.0 + 4.72
5 −5.3
11 36.2 Gr m time Pos angle var a. − 2°18
5042. Sprocket wheel a & B systems −35 & 2 sprocket.

January 22, 1900

Region of χ Cygni low, star very faint in photometer, observation very difficult. Impossible to take more than one group. Settings made with much care, observation 1/2 weight.

Phot T. T Monocerotis W Obs.

6 17 +7.2
3 37
2 40
9 20

9.5 inch cap used on T Monocerotis.

L+a.

Lodgered
Plotted

157.1
7 33.4 195.2 38.1
337.7 37.2
14.9 75.3 ~~7~~ − 2.34
156.6
193.9 37.3 2.37
338.0 35.9
139 73.2 − 2.40
R&B
68.0 Mean = 2.34
104.1 36.1
245.6 39.2
284.8 75.3 − 2.34
66.4 2.32
7 41.4 105.9 39.5 5042.522
7x8 246.8 36.6 5036.070
7 37.4 283.4 76.1 − 2.31 +6.452
5 5.3 27.012
1232.1 5042.522 20.560

January, 22, 1900.

Same Again.

R & B.

68.7
7 43.6 104.6 35.9
246.8 37.5
284.3 73.4 — 2.40

65.8 - 2.34
105.0 39.2
246.7 37.7
284.4 76.9 — 2.29

L & B
337.7 mean = 2.38
14.4 36.7
157.4 36.9
194.1 73.6 = 2.39

338.2 ~~mean~~ = 2.42
7 53.4 140 35.8
97.0 158.2 35.7
7 48.5 193.9 71.5 — 2.46
5 5.3

1243.2 Gr. M. Time.
5042,330
5036.070
+6.460
27.012
-20.552

Pos. Angle Ver. a. 267.0
Sprocket wheel a System -2.5
B .. -1.4

January 22, 1900

Phot W. e Ceti W Obs.

2 12 - 3.6
4 32
2 20

Plotted
Ledgered

R & B.
249.3
8 29.4 317.2 67.9×
71.7 63.3×
135.0 131.2× - 0.95×

251.6 - 0.92×
317.7 65.1×
67.8 68.8×
136.6 133.9× - 0.90×

L & a
160.0 Mean - 0.94×
227.4 67.4×
339.9 64.4×
44.3 131.8× - 0.94×

160.8 - 0.97×
8 37.0 224.3 63.5×
6 4.4 339.7 65.3×
8 33.2× 45.0 128.8× - 1.00×
5 5.3
13 27.9× G.M. Time
5042.562×

January 22, 1900

Same again

L & a
161.8
8 39.2 225.7 63.9
339.8 65.4
45.2 129.3 - 0.99

159.6 0.98
225.1 65.5
339.6 65.5
45.1 131.0 - 0.96
R & B.
70.4 mean = -0.98
137.1 66.7
250.9 63.7
314.6 130.4 - 0.97

70.5 0.97
8 47.0 134.5 64.0
249.7 66.6
86.2 316.3 130.6 - 0.97
8 43.1
5 5.3 Final mean = -0.96
13 37.8 Gr. Mt. time -
5042.568

January 22, 1900

Standards following ε Orionis
Phot T: 5 30 - 1 3 W 62

5 26
0 04
11 56

5 33 51.5
5 35 51.5

5 36 24.5
5 37 05.7

Comp. star for photometric (meas. of standards) precedes "d" by 0.5 sec. and is 4.5 South of it. Call comp star x.

R&A. Star (h) comp with x.

240.4 (x dis)
9 50. 0 293.8 53.4
60.3 50.1
110.4 103.5 + 1.57
237.4 + 1.50
293.2 55.8
53.2
57.8 109.0 + .144
111.0 Lo B
150.4 Mean = +1.53
203.4 53.0
329.5 51.2
20.7 104.2 + 1.55
10 151.8
9 00 0 201.7 1.56
328.2 49.9
11 0 0 21.5 53.3
9 55 03 103.2 + 1.58
6
14 49.7 G.M. Time

January 22, 1900

e comp with x

L & a

47.1 ∠e dis.

Ledgered

10 05.0 125.1 78.0ˣ
227.9 76.4ˣ
304.1 154.4ˣ − 0.49ˣ

46.3 −0.47ˣ
12~~8~~5.8 79.5ˣ
22~~7~~6.6 76.9ˣ
303.5 156.4ˣ − 0.45ˣ

R & B

314.4 Mean = −0.46ˣ
309.4 83.0ˣ
137.4 75.3ˣ
212.7 158.3ˣ − 0.41ˣ

317.6 −0.44ˣ
10 14.0 34.4 76.8ˣ
19.0ˣ 136.2 79.0ˣ
10 9.5ˣ 215.2 155.8ˣ − 0.46ˣ
5 − 5.3ˣ

15 4.2 Gr. M. Time.
5042

January 22, 1900

Star f comp with x

Below

225.6 (x dis

10 18.0 305.0 79.4″

46.3 79.4″

125.7 158.8 +0.40″

Ledgered

227.1 +0.46″

305.0 77.9″

49.2 74.2″

123.4 152.1″ +0.53″

Above

138.6 Mean = +0.55″

210.2 71.6″

318.2 73.4″

31.6 145.0″ +0.67

136.1 +0.64

10 27.0 213.3 77.2″

320.6 71.0″

10 22.5″ 31.6 148.2″ +0.61

5 5.3

15 17.2″ Gr. M. Time

5042.

January 22, 1900

Phot T. R Ursae Minoris W Ch

16 34 +72.9
6 50
9 44
2 16

Plotted.
Ledgered

LDa

327,9 <~~var~~ comp star das

10 47.6 26.7 58.8*
147,6 55,1*
202,7 113,9* + 1 33*

328.2 1.37*
24,6 56.4*
149,6 53,9*
203.5 110.3* + 1.41*

RdB

236,3 Mean = + 1.34*
293,7 57.4*
57.8 57.1*
1149 114.5* + 1,31*

2361 + 1.30*
10 55.0 293,8 57.2*
10 26* 56,4 57.9*
10 51.3 114.3 115.1* +1.30*
5 - 5.3
15 46.0* Gr. M. Time
5042.657

January 22, 1900

Same again

R & B.

235.8

10 56.8 295.6 59.8*

58.0 56.6*

114.6 116.4* + 127*

2

237.5 1.28*

294.2 56.7*

56.0 58.9*

114.9 115.7* + 1.29*

Mean = 128*

L & a.

146.5

204.3 57.8*

326.3 59.4*

25.7 117.2* + 125*

147.1 1.28*

11 03.4 203.7 56.6*

120.2 328.2 57.5*

11 00.1* 25.7 114.1* + 132*

5 - 5.3 Pos Angle V. a 318.8

15 54.8* Gr. M.T. Sprocket Wheel a System - 4.7

5042.663* B : - 3.5

January 22, 1900.

Re. of Jup III Phot. R.
H. Obs.
Colson Recorder

Compared with the other set on preceding side = Set I.

checked

16	24	01. ~~00~~	16 L ~~4~~	29m	54s	70.0	63.0	+0.8
		16. ~~15~~	16	30	09	69.2	133.0	+0.8
		31 ~~30~~			24	71.2	63.8	+0.7
		45 ~~44~~			38	75.8	135.0	+0.5
		59 ~~58~~			52	76.2	59.2	+0.5
25	12			31	06	73.1	135.4	+0.6
	55				49	76.7	62.3	+0.5
26	13			32	07	80.3	139.0	+0.4
	26				20	77.3	58.7	+0.5
	42				36	77.2	136.0	+0.5
	59				53	79.8	58.8	+0.4
27	13			33	07	81.3	137.8	+0.3
	39				33	81.3	5~~8~~6.5	+0.3
	51				53	~~81.0~~	137.8	

January 22, 1900

	h	m	s			→
16 34 54	16	34	23		56.8	
-5 54			42	82.2	139.0	
16 29 00		35	02	89.2	55.0	+0.2
			31	85.7	144.2	
36 33		35	59		53.4	
-5 -54		36	27	88.6	14$\overset{2}{3}$.0	
30 39		36	46	89.7	52.1	0.0
		37	00	89.2	141.8	
37 43			16		54.0	
-5 -54			32	89.0	143.0	
31 49			54	87.7	54.8	+0.1
		38	10	88.4	142.0 -	
38 41			22		54.2	
-5 -54			32	88.1	142.3	
32 47			51	89.2	52.8	
			58	88.6	142.0	+0.1
39 27		39	11		51.0	
-5 -54			20	94.8	145.8	
33 33			32	94.8	50.4	
			44	94.8	145.2	-0.2 →
40 25		40	07		50.8	
-5 -54			15	94.4	145.2	
34 31			33	93.4	49.9	
			44	93.9	143.3	-0.1
			~~53~~			
41 15		41	00		49.0	
5 -54			09	96.0	145.0	
35 21			21	96.1	49.4	-0.2
				96.0		

January 22, 1900

		31		145.5	
42 02		45		48.8	
-5 -54		56	97.4	146.2	
36 ~~08~~ 16	42	09	97.1	49.9	-0.3
08		17	97.2	147.0	
42 50		27		49.1	
-5 -54		93	95.1	144.2	
36 ~~57~~		549	96.7	49.5	-0.2
56	43	12	95.9	146.2	
43 37		24		49.0	
-5 -54		34	96.2	145.2	
37 ~~42~~		40	93.7	150.3	-0.2
43		49	95.0	144.0	
44 19	44	00		150.2	
-5 -54		13	94.6	144.8	
38 ~~24~~		24	94.0	151.0	-0.2
25		38	94.3	145.0	
45 11	45	00		48.8	
-5 -54		05	95.2	144.0	
39 17		15	96.1	49.0	
		22	95.8	145.1	-0.2
45 42		29		49.1	
-5 -54		36	97.9	147.0	
39 48		47	96.5	49.8	
		54	97.2	146.3	-0.3
46 14	46	03		49.8	
5 -54		10	95.4	145.2	
40 20		17	95.8	150.0	-0.2
			95.6		

January 22, 1900

			26		145.8	
16 46 53^{x}			38		48.9	
-5 -5~~8~~4			48	96.0^{x}	144.9	
16 40 ~~58~~ 59^{x}	16	47	00	96.0^{x}	150.0	-0.2^{x}
			07	96.0^{x}	146.0	
47 32^{x}			20		49.2	
-5 -5~~5~~4			30	97.0^{x}	146.2	
41 38^{x}			37	96.3^{x}	49.8	-0.3^{x}
			43	96.6^{x}	146.1	
48 00^{x}			50		50.2	
-5 -55			58	96.6^{x}	146.8	
42 05^{x}		48	03	97.3^{x}	49.5 -	-0.3^{x}
			10	97.0^{x}	146.8	
48 41^{x}			14		49.1	
-5 55			21	96.7^{x}	14~~9~~5.8	
42 46^{x}			29	96.0^{x}	50.0	-0.2^{x}
	16	48	39	96.4^{x}	146.0	

Limit of Visibility —

49 22^{x}	16	49	05 —		73.3	
-5 55			14	46.9^{x}	120.2	
43 27^{x}			26	42.9^{x}	75.1	+1.9^{x}
			44	44.9^{x}	118.0	

January 22, 1908,

Jupiter rather low. Seeing very bad. Delayed during first of eclipse by clouds — bad seeing.

	A+S 958			B. 394,	
17	11	56.0	17	6	0.0
	12	56.0		7	0.0

Chron corr = between $16^h\ 25^m\ 0^s$
= 5^m 54 sec. fast.
and 16^h 42 0
= 5 55 sec. fast
16 59 0
= 5 56 sec. fast.
17 07 0

Jan. 23, 1900 (Tuesday)

Bond 394 a & Dur ~~1182~~ 958
6 56 00.0 7 02 4 25
6 57 00.0 7 03 4 25
T. Monocerotis phot T. N 6 b

6 17 17.2
3 37
2 40
9 20

9.5 cap used on T. Monocerotis

I

L & a
157.3
7 26.2 195.4 38.1 Plotted
338.8 34.5 Ledgered
13.3 72.6 - 2.42

158.0 - 2.43
193.4 35.4
337.8 36.5
14.3 71.9 - 2.44
R & B.
65.7 mean = 2.34
105.4 39.7
245.2 38.8
284.0 78.5 - 2.24

67.0 ⁶ - 2.24
7 34.0 105.6 39.6 5048.516
60.2 246.9 38.5 5036.070
7 30.1 285.4 +7.446
5 - 6.7 27.012
12 23.4 Gr M Time 78.15 - 2.25 -19.566

January 23, 1900

Same Again.

II

R & B
67.0
7 35.8 105.5 38.5
246.4 38.5
284.9 77.0 - 2.28

65.6 -2.28
104.5 38.9
24~~7~~6.8 37.8
284.6 76.7 - 2.29
L & A
338.8
148 36.0
158.2 35.7 Mean = -2.37
193.9 71.7 - 2.45

338.7 2.46
7 43.6 13.9 35.2
79.4 157.0 36.0
7 39.7 193.0 71.2 - 2.47
5 - 6.7
1233.0 Gr. M. T.
5043.523 Clouds.
5086.070
+7.453
27.012
-19.559

January 23, 1900

clouds. Same again

L & A. III

157.5

8 12.2 194.1 36.6

336.2 clouds 37.7

13.9 74.3 − 2.37

157.4 − 2.39

193.2 35.8

337.6 clouds 37.3

14.9 73.1 — 2.41

R & B.

65.5 mean − 2.31

106.2 40.7

245.7 38.6

284.3 79.3 − 2.22

662 2.23

8 37.0 105.9 39.7

48.2 246.9 38.9

8 24.1 285.8 78.6 − 2.24

5 − 6.7

13 17.4 Gr. M. Time.

5048.553

5036.070

+7.483

27.012

−19.529

January 28, 1900

Same again

~~IV~~

R & B

65.6

8 445 105.1 39.5"

245.9 38.2"

284.1 77.7 – 2.26"

660 –2.26"

105.0 39.0"

246.3 38.7"

285.0 77.7" – 2.26"

L & a.

337.4

14.1 36.7" mean –2.31"

156.6 37.8"

194.4 74.5" – 2.36"

3368 –2.36"

8 560 142 37.4"

1005 156.8 37.0"

8 50.2 193.8 74.4" – 2.36

5 –6.7

13 43.5 G. M. Time Position angle ver a 87.8°

5043.572 Sprocket wheel a System –2.4

5036.070 " " B " –1.5

+7.502

27012

–19.510

Jan. 23, 1900

Standards following ε Orionis NW 6b

5 30 + 1.3
5 45
0 15

Abandoned for present

Lta. + mon. resumed

V

156.9
9 22.0 195.0 38.1
336.3 36.7
13.0 74.8 − 2.35

157.5 − 2.36
194.3 36.8
336.8 37.9
14.7 74.7 − 2.36

~~R~~ + B.
66.0 mean = − 2.33
195.2 39.2
246.9 38.1
28~~5~~.0 77.3 − 2.28

~~19~~ 66.4 − 2.30
9 31.0 ~~04~~ 104.3 37.9
53.0 ~~24~~ 246.0 38.2
9 26.5 ~~28~~ 284.8 76.1 − 2.31 5043.597
5 − 6.7 5036.070
14 19.8 Gr. M. time + 7.527
27.012
− 19.485

January 23, 1900

Standards following ε Orionis W 6 h

Phot T. 5 30 - 1.3
6 05
0 35

9 40 Clouds.

10 00 Clearer now.

Ledgered

Above Star (f) comp with (x)

136.2 < ~~x~~ dis.

10 14.0 215.3 79.1
317.7 75.9
33.6 155.0 + 0.48

137.3 + 0.52
211.6 74.3
317.5 76.0
33.5 150.3 + 0.57

Below

43.2 Mean = + 0.43
127.6 ~~84.6~~
225.3 81.1
306.4 165.5 + 0.27

47.8 + 0.34
10 22.0 125.4 77.6
36.0 226.6 81.2
10 18.0 305.8 158.8 + 0.40
5-67
15 11.3 Gr. M. Time.
5043.633

January 23, 1900

Star (g) comp with (x)

Below — Ledgerwood

233.0 ∠x dis.
10 30.6 296.3 63.3
58.2 56.2
114.4 119.5 +1.20

235.4 +1.18
298.8 63.4
56.2 58.0
114.2 121.4 +1.16

Above

mean = +1.27

148.4
204.0 55.6
326.9 56.6
23.5 112.2 +1.37

147.8 +1.37
10 42.0 203.3 55.5
72.6 328.3 56.5
10 36.3 24.8 112.0 +1.37
5 - 6.7 Clouds
15 29.6 Gr. M. Time
5043.646

January 23, 1900

Star (e) comp with (L)

L & A.

45.9 (2 dia)

10 51.2 127.2

225.8 clouds

305.8

47.2

124.0

225.4

305.4

Reject.

R & B.

315.6

32.3

136.2 Clouds.

216.9

316.4 clouds.

11 03.0 35.7

13 clouds.

21

Stopped by clouds.

January 26, 1906 (Friday)

Set a. & Dent.

Bond 394	a + Dent 958
7 05 00	7 04 43.0
7 06 00	7 05 43.0

January 27, 1900 (Saturday)

Comp of chronometers.

Bond A. O. Dent
5 34 00.0 5 35 00.2
5 35 00.0 5 36 00.2

Phot. Minima Ceraskis. Var. W6h.

20 8 + ~~46~~ 46.3
L&B 26 28
6 20 I
3153 L var dis

5 59 40 36.4 81.1 Plotted
134.3 82.2 Ledgered
216.5 163.3 − 0.32

312.7 −0.26
6 02 00 37.5 84.8
134.0 85.1
219.1 169.9 − 0.19
R&a.
219.9 mean −0.17
6 04 50 312.1 82.2
41.2 88.7
129.9 170.9 − 0.17

219.5 −0.08
06 55 310.6 91.1
253 25 41.1 88.9 − 0.00
6 03 21 130.0 180.0 5047.4599
5 −01 ~02 5043.1135
11 02 19 Gr. M. Time +4.3464
4.5729
−0.2265

January 27, 1900

II

~~R & a,~~

~~221.6~~ ~~40.9~~

~~6 09 15~~ ~~310.6~~ ~~120.0~~

~~6 11 20~~ ~~42.8~~ ~~219.9~~

+ 3

R & B

221.9

6 13 40 310.2 88.3

42.0 88.0

130.0 176.3 − 0.07

222.5 −0.04

6 15 00 311.2 90.7

41.2 89.0

130.2 179.7 − 0.01

L & B

131.7 Mean = −0.08

18 00 218.1 86.4

312.0 88.6

40.6 175.0 − 0.09

134.7 −0.12

70 00 221.3 86.6

66 40 313.1 85.7

6 16 40 38.8 172.3 − 0.14 5047.4691

5 − 01 − 03 5043.1135

11 15 37 Gr M Time. + 4.3556

4.5729

− 0.2173

January 27 1900

~~III~~

LθB

133.8
6 22 00 219.5 85.7
312.6 87.4
400 173.1 − 0.13

1$\overset{2}{3}$9.4 −0.11
24 15 218.9 89.5
313.7 85.6
39.3 175.1 − 0.09

RθA

39.9 mean −0.01
28 00 129.8 89.9
218.6 93.1
311.7 18$\overset{3}{2}$.0
177.0 +0.06

38.5
31 15 132.4 93.9 +0.09
105 30 219.4 92.5
6 26 22 311.9 186.4
5 −01 173.6 +0.12

11 25 19 G M time.

50474759
50431135

−4.3624
4.5729
−0.2105

January 27, 1900

IV

R & a.

38.6

6 34 50 130.6 92.0"

218.8 95.5"

314.3 187.5"

172.5" + 0.14"

38.6

37 25 130.8 92.2"

218.~~8~~6 93.6"

312.2 185.8"

L & B. 174.2" + 0.11"

311.3

40 15 40.0 88.7" mean = + 0.08"

129.2 93.1"

222.3 181.8"

178.2" + 0.03"

309.~~3~~4

43 55 42.9 x93.5" + 0.05"

156 25 130.8 90.3"

221.1 183.8" + 0.07"

6 39 06" 176.2"

5 - 01 04

11 38 02" Gr. M. Time.

5047.4847"

5043.1135

+ 4.3712"

4.5729

- 0.2017"

January 27/1900

Phot. 7. T. Monocerotis. W6k

6 17 +7.2
4 07
2 10
9 . 58

RDa. 9.5 in cap used.

336.1
7 35.8 17.3 41.2
156.4 40.3
196.7 81.5 - 2.13

Plotted Ledgerott.

335.4 -2.16
16.8 41.4
155.2 39.5
194.7 80.9 - 2.17

RDB.

243.7 Mean = -2.08
287.6 43.9
63.9 42.7
106.6 86.6 - 2.01

243.6 -2.00
7 44.6 286.7 43.1
80.4 62.8 44.4
7 40.2 107.2 87.5 - 1.98
5 - 1. 1
12 39. 1 Gr M Time

5047.527
5036.070
+11.457

January 27, 1900

Same Again

R of B

245.0

7 48.0 287.6 42.6$^+$

62.8 44.4$^+$

107.2 87.0$^+$ – 2.00$^+$

244.5 –1.99$^+$

287.6 43.1$^+$

63.2 44.4$^+$

107.6 87.5$^+$ – 1.98$^+$

L of a. Mean = – 2.03$^+$

154.2

196.3 42.1$^+$

334.7 42.6$^+$

17.3 84.7$^+$ – 2.06$^+$

154.9 2.07$^+$

7 58.4 197.8 42.9$^+$

10.6.4 335.8 40.9$^+$

7 53.2$^+$ 16.7 83.8$^+$ – 2.08$^+$

5 – 1.1

12 52.1$^+$ Gr M. Time.

5047.536$^+$

5036.070

+11.466

January 27, 1900

Same again

L & a

155.5
8 08.2 195.7 40.2″
334.6 42.8″
17.4 83.0″ - 2.11″

2.13″

156.5
196.2 39.7″
335.2 41.8″
17.0 81.5″ - 2.15″

R & B.

63.0 mean = 2.06″
108.8 45.8″
244.5 43.0″
287.5 88.8″ - 1.95″

64.9 - 1.99″
8 18.4 107.8 42.9″
26.6 247.3 42.7″
8 13.3 287.0 85.6″ - 2.03″
5 - 1.1 Pos. angle Vera 87°.8
13 12.2 Gr. M. time Sprocket wheel a System - 2.4
5047.500″ " " B " - 1.4
5036.070
+11.480

Jan. 27, 1900

Phot W. o Cete. W Gts
2 ,12 -3.6
5 ,7
3 05

R & a
335.5
8 47.0 48.6 73.1 Plotted
15~~9~~8.6 67.4 Rejected
226.6 140.5 -0.76
339.1
45.8 66.7 -0.80
158.1 69.4
227.5 136.1 -0.85
R & B
246.4 mean = -0.79
317.8 71.4
69.1 67.5
136.6 138.9 -0.80

247.5 -0.78
8 56.4 317.2 69.7
103.4 66.6 71.6
8 51.7 138.2 141.3 -0.75
5 -1.3
13 50.4 Gr. M. time
5047.576

January 27, 1900

R & B   Same again

247.2
8 58.8   317.6   70.4″
68.1   69.0″
137.1   139.4″ — 0.79″

247.4   0.70″
31~~7~~6.6   69.2″
64.8   73.8″
138.6   143.0″ — 0.71″

L + a
157.6   mean = 0.76″
227.9   70.3″
338.3   69.1″
47.4   139.4″ — 0.79″

158.4   0.78″
9 06.4   228.0   69.6″
125.2   33~~6.4~~6.4   70.8″
9 2.6   47.2   140.4″ — 0.77″
5 −1.3
14 1.3″ G.M. Time.
5047.584″

January 27, 1900

Phot T. λ Tauri. W Obs.

3 5 3 + 12.1
6 2 3
2 3 0

9.5 inch cap used. I

R & A.   Plotted.
349.5   Ledgered.
9 48 40   1.4   11.9
169.8   11.5
181.3   23.4 −   4.95

349.0   (5.00)
50 25   361.1   12.1
161.4   10.3
181.7   22.4 −   5.04

L & B
259.0
53 10   272.1   13.1
79.2   13.0
92.2   26.1 −   4.71

259.1   4.70
9 55 15   272.2   13.1
207 30   79.0   13.1
9 51 52   92.1   26.2 −   4.70
5 − 1 − 17   5047.6185   Mean = 4.85
14 50 35 Gs M Time   5043.7152
+3.9033

January 27, 1900

II

L & B

259.0
9 57 25 272.0 13.0
79.4 13.7
93.1 26.7 −4.66

25 9.8 −4.60
59 25 272.7 13.9
78.9 14.3
93.2 28.2 − 4.54

Mean = −4.67

R & a

169.0
10 03 10 183.0 14.0
349.1 12.7
361.8 26.7 − 4.66

169.6 4.74
10 04 35 182.2 12.6
244 35 349.6 12.3
10 01 09 361.9 24.9 − 4.81
−5 −1 18

14 59 51 G.M.Time

5047.6249
5043.7152
+3.9097

January 27, 1900

III

R & a

10 07 45 → 168.9
182.3 13.4+
348.9 13.1+
362.0 26.7+ − 4.66+

169.7 −4.70+
09 45 182.4 13.0+
349.4 12.6+
362.0 25.6+ − 4.70−

Mean = 4.63+

L & B.

78.5
16 00 92.6 14.1+
258.9 13.3+
272.2 27.4+ − 4.60+

178.8 −4.56+
10 18 30 93.0 14.2+
62 00 258.6 14.2+
10 13 00+ 272.8 28.4+ − 4.52

5 − 1 − 19

15 11 41+ G. M. Time.

5047.6331+

5043.7152

+3.9179

January 27, 1900

$\overline{\text{IV}}$

L & B
79,1
10 22 00 93.3 14.2"
358,5 13.9"
272,4 28.1" − 4.55"

78,8 −4.52"
24 10 93,5 14.7"
258,2 14,3"
272,5 29.0" − 4.48"

R & a Mean = 4.56"
349,2
26 50 362,4 13.2"
168,8 13.5"
182,3 26.7" − 4.66

348,5 −4.61"
28 30 362,5 14.0"
21 30 168,5 13.9"
10 25 22 182.4 27.9 − 4.56
5 −1−19

15 24 03 Gr M Time.
5047.6417"
5043.7152"
3.9265"

January 27, 1900

V

R+a.

349.5

10 31 20 362.5 12.8

168.7 13.7

182.4 26.5 - 467

3480 -4.58

33 05 362.3 14.3

168.3 14.5

1828 28.8 — 449

L+B. -4.51

258.6

35 25 273.0 14.4

78.4 14.9

93.3 29.3 - 446

258.5 -4.44

36 50 273.1 14.6

16 40 78.2 15.0

10 34 10 93.2 29.6 -4.43

5 - 1 - 20

15 32 50 Gr M time -

5047.6478

5043.7152

+3.9326

January 27, 1900

~~VI~~

L&B

258.3
10 38 50 272.8 — 14.5
78.5 — 15.3
93.8 — 29.8 – 4.42

257.7 — (4.40)
41 00 273.4 — 15.7
78.8 — 14.8
93.6 — 30.5 — 4.37

Roa

168.7
44 50 182.2 — 13.5 8
348.3 — 14.6
36~~2.7~~8 — ~~28.8~~ – 4.53
31.1 — 28.3

168.9 — (4.56)
48 10 182.9 — 14.0
17 2 50 346.6 — 13.6
10 43 12 363.2 — 27.6 – 4.59
5 -1-21 — mean = 4.48

15 41 51 Gr M time.
5047.6541
5043.7152
+3.9389

January 27, 1900

~~VII~~

R.A.

Pos angle Ver a 115.2
Sprock wheel ~~a~~ Sys.
" " " " B Sys. 136
C " 143

a & Dent	Bond 394
11 03 225	11 02 00.0

January 29, 1900 (Monday)

comp of chronometers

Bond 394　　　　a. Dent
6 57 00.0　　　　7 00 47.0
6 58 00.0　　　　7 01 47.0

Phot T. + monuments　　W 6 b.

6 17 +7 2
9.3 exposed.　　3 57
6 17　　2 20
4 07　　9 40
2 10
9 50

L + a　　　　Plotted.
　　　　　　Ledgered.

170.8
7 26.0 215.2　44.4
350.3　41.6
31.9　86.0 − 2.02
171.2　　2.00
213.3　42.1
348.8　45.0
33.8　87.1 − 1.99
77.0　　Mean = −1.92
125.9　48.9
261.5　43.2
304.7　92.1 − 1.86
77.8　　−1.84
736.6 124.9　47.1　5049.519
61.6 259.5　47.0　5036.070
730.8
5 − 2.8 306.5　94.1 − 1.81　+13.449
　　　27.012
12 28.0 Gr. M. Time　　13.563

January 29, 1900.

Same again.

R & B.

~~78.1~~ 259.7
7 44.0 ~~125.8~~ 306.5 ~~40.8~~
~~260.3~~ 77.5 47.3
~~310~~ 1248 94.1 − 1.81

260.0 − 1.79
307.1 47.1
77.6 48.4
126.0 95.5 ~~−1.71~~

L & a

171.3 ~~Mean −1.88~~
216.1 44.8
350.2 43.4
33.6 88.2 − 1.96

172.5 −1.98
7 54.0 214.8 42.3
349.8 44.2
7 49.0 34.0 86.5 − 2.01
5 − 2.8
12 46.2 Gr. M. Time. Mean = −1.88
5049.532
5036.070
+13.462
27.012
− 13.550

January 29, 1900

Same again.

L & a.

170.0
804.5 213.7 43.7
350.9 43.1
34.0 86.8 – 2.00'

172.4 – 2.01'
215.0 42.6
357.8 43.5
34.3 86.1 – 2.02'
R & B
798 Mean = –1.94
124.5 44.7
257.8 46.9
304.7 91.6 – 1.87

79.9 1.88
812.0 125.4 45.5
16.5 260.2 45.0
808.2 305.2 90.5 – 1.90'
5 2.8
13 05.4

5049.545
5086.070
+13.475
27.012
–13.537

January 29, 1900

Same again

R & B.

~~179.9~~

~~8 17.8~~ 127.2

25. Reject ~~45.8~~

---

troubled somewhat by light clouds during observations. During first and last groups sky clearer, during ~~second~~ group sky more cloudy. and so difficult & more uncertain.

Sprocket Wheel A system 25

" " B " −15

Pos circle accidently changed after moving off region and before reading in connection with sprocket wheel

Stand. Pol. ε Orionis W Obs.

Phot T. 5 30 −1.3

5 25.

0 05

January 29, 1900

Stark comp with x

Right

154.5 Ledgered.

8
9 48.0 229.6 2 dis 75.1^{x}
335.8 74.4^{x}
50.2 149.5^{x} −0.58^{x}

−0.53^{x}

154.0
231.4 77.4^{x}
333.6 77.3^{x}
50.9 154.7^{x} −0.48^{x}

Left mean = −0.46^{x}

62.4
142.9 80.5^{x}
244.0 79.4^{x}
323.4 159.9^{x} −0.38^{x}

−0.39^{x}

8 63.0
9 56.0 142.0 79.0^{x}
104.0 243.1 80.3^{x}
8 52.0 323.4 159.3^{x} −0.40^{x}
5 −2.8
1349.2 Gr M time.
5049.576^{x}

January 29, 1900

Star c' comp with x

Ledgered

	Left			
~~37~~	324.4	x dis		
9 01 -6	59.9	95.5^{x}		
	147.2	93.8^{x}		
	241.0	189.3^{x}		
		170.7^{x}	+0.17^{x}	
	325.5			
	59.9	94.4^{x}		+0.18^{x}
	144.9	95.3^{x}		
	240.2	189.7^{x}		
		170.3^{x}	+0.18^{x}	
	Right			
	233.8			
	331.3	97.5^{x}		
	53.3	97.8^{x}		
	~~145.7~~	195.3^{x}		
	150.1	164.7^{x}	+0.29^{x}	
	234.1			
9 11.6	331.7	97.6^{x}		+0.28^{x}
13.2	53.3	96.9^{x}		
9 06.6	150.2	194.5^{x}		
5 -2.8		165.5^{x}	+0.27^{x}	

14 03.8 Gr. M. Time

5049.586

Mean = -0.23

January 29, 1899.

Star h comp with x

Ledgered

	Rθa.			
	75.1			
9 29.0	130.8	x obs.	55.7"	
	255.3		52.2"	
	307.5		107.9"	+1.47"
	73.0			+1.44"
	129.9		56.9"	
	256.3		53.2"	
	309.5		110.1"	+1.42"
	Lθ. B.			
	345.6			mean = +1.51"
	39.0		53.4"	
	168.1		52.1"	
	220.2		105.5"	+1.52"
	349.3			+1.58"
9 38.0	37.5		48.2"	
67.0	167.5		52.1"	
9 33.5	219.6		100.3"	+1.65"
5 2.9				

14 31.6 Gr. M. Time.

5049.606"

January 29

Stars conj. with x

Ledgeret

Above

~~163.8~~ x dis.

~~9 47.6~~ ~~219.4~~

343.9 x dis

9 49,6 37.9 54.0^{s}

163.6 58.2^{s}

221,8 112.2^{s} $+1.37^{s}$

344.3 $+1.43^{s}$

39.3 55.0^{s}

165.8 51.8^{s}

217,6 106.8^{s} $+1.49^{s}$

Below

253.7 Mean = $+1.37^{s}$

309.6 55.9^{s}

74.4 57.2^{s}

131,6 113.1^{s} $+1.35^{s}$

254.2 $+1.31^{s}$

9 59.8 311.1 56.9^{s}

109.4 71.5 59.4^{s}

$9\ 54.7^{s}$ 130.9 116.3^{s} $+1.27^{s}$

5 - 29

$14\ 51.8^{s}$ G. McTimer

5049.619^{s}

January 29, 1900

Below star of comp with x.

61.2

1003.4 142.1 $\bar{x}$ dis 80.9″ Ledgered

243.9 76.1″

320.0 157.0″ + 0.44″

639

+0.42″

140.9 77.0″

245.3 78.5″

323.8 158.5″ + 0.41″

Above

3373 Mean = +0.46″

50.4 78.1″

158.4 74.9″

233.3 153.0 + 0.52″

332.8 +0.57″

10 12.4 49.2 76.4″

15.8 154.5 77.5″

232.0 153.9″ + 0.50″

10 7.9

5 2.9

15 50 Gr m time.

5049.628″

January 29, 1900

7 06 12.0
06 18.0

06 32.0
06 38.2

06 49.0
06 55.2

Star i' precedes 6.1 secs and is
1 min of arc South of it.

Phot. T. † Persei M Obs.
2 8 +57.2
7 38
5 30

see next page

January 29, 1900

t, Persei

~~Le~~dgered
Plotted

Above
252.5 vandis
10 59 00 311.0 58.5
73.1 57.9
131.0 116.4 − 1.27

252.6 −1.26
311.8 59.2
74.1 58.7
132.8 117.9 − 1.24
Below
165.1 mean = −1.34
221.4 56.3
345.2 52.8
38.0 109.1 − 1.44

165.3 −1.42
11 08.00 219.5 54.2
,12700 343.6 56.7
11 3 30 40.3 110.9 − 1.40
5 − 3 00
16 0 30 Gr. M. Time
5049.667

January 29, 1900

+. Persei again

Below

165.0

11 11.2 270.2 55.2

344.8 55.4

40.2 110.6 -1.40

164.9 -1.40

219.3 54.4

344.6 55.8

40.4 110.2 -1.41

Above

73.2 mean = -1.34

130.2 57.0

252.6 59.2

311.8 116.2 -1.28

72.4 -1.27

11 19.8 130.9 58.5

31.0 252.6 58.3

11 15.5 310.9 116.8 -1.26

5 -3.0 Pos. Angle Vera. 156.7°

16 12.5 G.M. time Sprocket wheel A System -4.5

5049.676 " " B " -5.5

January 30, 1900 Tuesday

Bond 39H	a O Dent
5 45 00.0	5 50 12.7
5 46 00.0	5 51 12.7

Phot T. X Cygni W Obs.

19 45 +32.6
26 55
7 10

Comp star ξ seen, comp star η thought to be seen at intervals, If star η is certainly seen, a star one grade 6 45
fainter than η could probably be seen.

Variable not certainly seen even with power 270

Region very low, ~~some tw~~ a little twilight still in sky, some cloudiness in western sky perhaps slightly involving this region.

Hour angle, 7h - 46 m.

Phot T. T Monocerotis W Obs.

6 17 +7.2
3 40
2 37
9 23

9.5 inch cap used

January 30, 1900

T. monocerotis

L&A. Ledgered
Plotted

170.6
7 05.6 215.7 45.1
351.0 43.9
349 89.0 − 1.94+

170.9 −1.92
216.2 45.3
348.5 45.5
340 90.8 − 1.89+
R&B.
78.5 mean = −1.84+
127.6 49.1
259.4 46.5
305.9 95.6 − 1.77+

78.4 −1.75+
7 15.4 124.8 46.4
8.0
21.0 25~~7.8~~ 50.7+
7 10.5+ 308.7 97.1 − 1.73
5 −5.2+
12 05.3
5050.503+
5036.070
+14.433+
27.012
−12.579+

January 30, 1900

Same again.

R & B

78.5

7 19.2 125.5 47.0

259.7 4 46.7

306.2 93.7 − 1.82

77.3 1.78

125.9 48.6

258.9 48.2

307.1 96.8 − 174

mean = − 1.84

L & A

348.8

33.9 45.1

170.7 44.7

215.4 89.8 − 1.92

349.4 −1.90

7 32.0 35.6 46.2

51.2 170.3 45.2

7 25.6 215.5 91.4 − 18.8

5 05.2

12 20.4 Gr. M time 27.012

5050.514 +14.444

5036.070 −12.568

+14.444

January 30, 1900

L+a. Same again.
~~R+f~~
350.6
7 44.0 35.8 45.2
171.3 43.8
215.1 89.0 - 1.94

350.6 -1.94
34.2 43.6
169.5 45.4
214.9 89.0 -1.94

R+B Mean = -1.85
259.3
306.2 46.9
77.5 49.1
126.6 96.0 - 1.76

258.6 -1.76
7 52.8 307.0 48.4
96.8 78.3 47.8
7 48.4 ~~125.8~~ ~~95.9~~ - 1.75
5-5.2 126.1 96.2
12 43.2 G. M. Time
5050.530
5036.070 Pos angle Vesta 87°.4
+14.460 Sprocket wheel a System -2.5
27.012 " " B " -1.4
-12.452

January 30, 1900

Standards following ε Orionis
Phot T. WCk

5 30 −1.3
4 50
0 40
11 20

RΘα Star k comp with α.
76.0
130.8 x dis.
8 11.5 ~~257.8~~ 54.8
~~308.2~~ ~~50.4~~
~~105.2~~

~~75.1~~
~~128.8~~ ~~53.7~~
~~254.9~~ ~~51.2~~
~~306.1~~ ~~104.9~~
~~∠ΘB.~~
~~335.2~~
42.0

Reject reading

Impossible to finish on account of haze.

January 30, 1900

Star e comp. with x

Left Ledgered

142.2
8 25.0 243.1~~7~~ dis. 100.9″
323.1 100.5″
63.6 201.4″ − 0.41″
158.6″

143.3 − 0.38″
242.7 99.4″
323.2 98.8″
62.0 198.2″ − 0.35″
161.8″

Right.
51.6 mean = − 0.45″
157.8 106.2″
231.7 100.9″
33~~1.2~~2.6 207.1″ − 0.52″
152.9″

49.4 − 0.52″
8 : 38.0 154.2 104.8″
63.0 231.7 102.2″
8 21.5 333.9 207.0″ − 0.52″
5 − 5.3 153.0″
13 26.2 Gr. M. time,
5050.560+

January 30, 1900

Star (é) comp with x

Right

Ledgered

233.9
902.0 331.0 x dis. 97.1
52.0 98.2
150.2 195.3
164.7 -0.29

234.2
328.3 94.1 -0.26
53.7 98.0
151.7 192.1
167.9 -0.23

Left.

144.8 mean = -0.25
239.4 94.6
325.5 93.1
58.6 187.7
172.3 -0.14

144.5
9 14.0 243.4 98.9 -0.24
16.0 323.7 99.6
63.3 198.5
9 08.0 161.5 -0.35
5-5.3
14 02.7 Gr. M. Time.
5050.585

January 30, 1900

~~Star comp with~~ X

Phot W   o Ceti   W G bs.

2 12 - 3 6
6 20
4 08

R&B   Plotted

64.8

9 37.4 139.5   74.7   Ledgered
247.1   71.2
318.3   145.9 - 0.66

66.2   -0.70
137.2   71.0
247.3   71.2
318.5   142.2 - 0.73

L&A.

335.0 Clouds   Mean = -0.72
47.8   72.8
157.9   70.5
228.4   143.3 - 0.71

336.6   -0.74
9 44.6   46.0   69.4
82.0   156.2   71.5
9 41.0   227.7   140.9 - 0.76
5 - 5 3   Clouds

14 35.7 G. M. time. Measured through some cloud.
5050.608

January 30, 1900

Same again

~~L+a~~
~~3348~~
9524 ~~48.6~~
~~153.8~~
∴ clouds

Stopped by clouds and low altitude.

~~Phot T.~~ R Aurigae w6bs.

5 3 +53.0
6 57
1 54

✓
Posted on
,045 var. = 0 Bulletin.

Obs made through clouds
Est somewhat uncertain obs.
1/2 weight.

No chance for anything later

January 31, 1900 (Wednesday)

~~R~~ R Ursae Min. W6h.

16 34 +72.9
28 06
11 32

7 05 Clouds

7 45 Cloudy

16 34
29 07
12 33
~~11 27~~

8 0.0 Cloudy

16 34
29 45
13 11

Posted on
Bulletin

9.07 f ~~g~~ 3.5 var in finder ✓

9 08 f 4 var in large telescope ✓
cannot use star g in comparison it
looks as if it had varied in its
light, it is 3.5 ~~to 4~~ grades fainter
than h to-night - Star h is
rather too faint to compare with var,

January 31, 1900

Phot t. T. Monocerotis W Obs
9.5 cap used.

~~xt~~

6 17 +7.2
6 07
0 10
11 50

Above
~~Low~~.

169.6
9 26.6 217.0 47.4
350.2 43.3
33.5 90.7 − 1.90

Plotted
Ledgered

1698
215.2 45.4
347.5 47.6
35.1 93.0 − 1.83

−1.86

~~Right~~ Below
Clouds

mean = −1.79

777
1279 50.2
258.2 48.7
306.9 98.9 − 1.68

−1.72

794
9 37.6 1270 47.6
642 258.2 48.6
9 32.1 306.8 96.2 − 1.79
5 −7.0
14 25.1 Gr. m.t.

5051.606
5036.070
+15.536
27.012
−11.476

January 31, 1900.

Same again

Below

78.8

9 41.0 127.3 48.5*

257.5 49.2*

306.7 97.7* − 171*

79.7 −174*

125.9 46.2*

207.8 49.4*

307.2 95.6* − 177*

Above mean = −1.82*

349.9

35.2 45.3*

~~169.2~~ 170.4 ~~46.3~~

215.5 45.1*

90.4* − 190*

349.7 −189*

9 54.0 34.8 45.1*

9 5.0 169.3 46.3*

9 47.5 215.6 91.4* − 188*

5 − 7.0

14 40.5 Gr. mt. time

5051.611

5036.070

+15.541

27.012

−11.471

Poz. angle Vera z 67.4

Struchet whol a System −2.5

B " −1.4

January 31, 1900

Phot T. λ Tauri W6b.

9.5 cap used.

3 53 +121
7 0.3
3 10

a. & R.
~~185.8~~ 5.4 Plotted
Ledgered
10 ~~16 10~~ ~~H~~ . 18.0 12.6
17 45 . 185.4 14.1
. 199.5 26.7 − 4.66

5.9 −4.76
19 40 18.2 12.3
186.6 12.2
198.8 24.5 − 4.85

R & B
276.1
22 50 297.2 16.1
95.0 13.8
108.8 29.9 − 4.41

276.3 − 4.48
24 30 290.4 14.1
84 45 95.3 14.1
10 21 11 109.4 28.2 − 4.54
5 − 7 01
15 14 10 Gr M Time Mean = − 4.62
5051.6348
5051.6218
+ 0.0130

January 31, 1900

II

L&R3

2761
10 26 40 299.6 14.5
95.5 13.2
108.7 27.7 − 4.58

2763 − 4.61
28 55 289.7 13.4
95.2 13.7
108.9 27.1 − 4.64

R&Q. mean = −4.68
1868
32 10 199.1 12.3
5.9 11.6
17.5 23.9 − 4.90

186.0 − 4.96
10 .34 15 199.8 13.8
12 2 00 4.8 13.4
10 30 30 18.2 27.2 − 4.62
5 − 7 01
15 23 29 Gr m Time =
5051.6414
5051.6218
+0.0196

January 31, 1900

R & Q   III

186.9
10 37 30 199.9   13.0″
6.2   12.6″
18.8   25.6″ − 4.75″
Clouds.
185.9   − 4.68″
40 05 199.9   14.0″
4.8   13.3″
18.1   27.3″ − 4.61″

L & B   mean = − 4.59″

94.6
46 00 109.1   14.5″
276.2   13.7″
289.9   28.2″ − 4.54″

95.0   − 4.50″
48 15 109.7   14.1
171 50 275.1   15.1
10 42 58 290.2   29.2 − 4.46
5 − 7 − 02
15 35 56 Gr M Time.
5051.6499″
5051.6218
+ 0.0281″

January 31, 1900

IV

L&B

	948		
10 55 35	109.3	14.5	
	275.9	14.1	
	290.0	28.6	− 4.51
			−4.50
	949		
53 05	109.1	14.2	
	275.8	14.5	
	290.3	28.7	− 4.50

R&a. Mean = −4.60

	6.2		
55 50	118.8	12.6	
	185.6	13.4	
	199.0	26.0	− 4.72
			−4.71
	5.2		
57 35	118.4	13.2	
17 05	186.2	13.0	
10 54 16	199.2	26.2	− 4.70

5 − 7 03

15 47 13 G.M. time

5051.6577

5051.6218

+0.0359

Jan. 31, 1900

V

R&a.

5.4

11 00 00 18.3 12.9"

185.8 12.9"

198.7 25.8" -4.74"

6.4 -4.78"

02 10 18.7 12.3"

186.6 126

199.2 249 -481"

L.OB.

276.4 mean = -4.70"

04 15 290.0 136"

95.5 129"

108.4 26.5" = 4.67"

276.4

06 35 289.68 13.4" -4.62"

13 00 95.0 14.5"

11 03 15 109.5 27.9" -4.56

5 -7 04

15 56 11 Gr M time,

5051.6640"

5051.6218

+0.0422"

January 31, 1900

VI

L & B.

~~276.3 clouds~~
11 ~~09~~ 10 00 ~~290.2~~ ~~13.9~~
~~Clouds.~~

95.7
11 17 40 109.8 14.1
276.2 13.3
289.5 27.4 − 4.60
95.3
−4.58
19 40 109.4 14.1
275.7 13.8
289.5 27.9 − 4.56
R & a.
6.0
22 20 18.7 12.7 Mean = −4.66
185.8 13.7
199.5 26.4 − 4.68

5.6 −4.74
23 40 18.2 12.6
83 20 186.4 12.4
11 20 50 198.8 25.0 − 4.80
5-7-05.
16 13 46 G.M.T. a & Dent Bond 394
5051.6765 11 31 05.3 11 24 00.0
5051.6218 Pos angle Ver a 11 5°.3
+0.0545 5 pr.-wheel a System 2.8
B 13.5
C 14.2

February 1, 1900 (Thursday)

Set at Dent

Bond 394 at Dent
6 58 000 6 58 170
6 59 000 6 59 170

Phot T. T. Monocerotis W. 6 h.
9.5 inch cap used.

6 17 +72
4 17
2 00

L&A 10 00

Plotted

Ledgered

168.1
7 25.4 219.1 51.0
349.6 44.6
34.2 95.6 − 1.77

170.8 − 1.78
216.2 45.4
347.2 49.3
36.5 94.7 − 1.79

R&B − 1.74

77.8
128.4 50.6
259.5 46.3
305.8 96.9 − 1.73

77.7 − 1.69 5052.522
7 38.4 126.2 48.5 5036.070
63.8
7 31.9 256.0 51.6 +16.452
5 − 0.3 27012
12 31.6 307.6 100.1 − 1.65 − 10.560

Feb. 1, 1900

Same again

R & B.

76.8
7 40.6 127.4 50.6
258.0 47.8
300.8 98.4 - 1.70

76.1 -1.70
128.1 52.0
258.7 46.8
305.5 98.8 - 1.69

L & a
348.9 Mean - 1.78
35.5 46.6
179.9 44.8
215.~~6~~7 91.4 - 1.88

347.6 -1.86
7 51.6 35.4 47.8
92.2 170.5 45.3
7 46.1 215.8 93.1 1.83
5 - -0.3
Final Mean = 1.76
12 40.8 Gr. M. time Position angle for a 267°.3
5052.532 Sprocket wheel a System -2.5
5036.070 B " -1.4
+16.462
27.012
-10.550

Feb. 1, 1900

Phot W. *o Ceti.* W Obs.

2 12 - 3.6
5 - 05
2 57

L Aldebaran

Plotted

Ledgered.

337.6
8 14.6 47.7 70.2
154.6 73.4
228.0 143.6 -0.70

335.0 -0.69
48.4 73.4
155.6 71.3
226.9 144.7 -0.68

R W B

~~246.8~~
~~311.0~~ ~~70.2~~
65.2 Mean = 0.68
140.1
245.9 74.9
320.2 74.3
149.2 .059

66.1 -0.66
8 25.0 137.9 71.8
8 39.6 244.9 70.8
8 19.8 315.7 142.6 -0.72
5 -0.4
13 19.4 = Gr. M. Time.
5052.555

Feb. 1, 1900

R & B

66.3

8 37.0 138.8 72.5

244.0 74.8

318.8 147.3 − 0.63

66.9 − 0.64

138.6 71.7

245.2 73.8

319.0 145.5 − 0.66

L & a mean = 0.64

334.9

47.7 72.8

155.4 73.6

229.0 146.4 − 0.65

335.5 − 0.65

8 35.0 48.2 72.7

12.0 154.5 73.5

8 36.0 228.0 146.2 − 0.65

5 − 0.4 Troubled by frost on eye-piece

8 25.6 G.M.T. on preceding groups of o Ceti.

0052.567

Feb 1 1900

Standards following ε Orionis
Phot T. 5 20 - 1.3 W6 tz
6 20
0 50

R&A. Star h comp with x.
77.8 xdis.
9 29.0 127.4
257.5 49.6
308.3 50.8
100.4 +1.65

75.8
127.1 34.3 +1.68
260.4 46.6
307.0 97.9 +1.71

L&B. +1.66
347.7
36.6 48.9
166.4 57.2
217.6 100.1 +1.65

344.4 +1.64
9 42.6 36.4 52.0
168.6 49.4
218.0 101.4 +1.62
Reject above seeing bad will take another group.

Feb. 1, 1900.

seeing steadier
Star h over again

Ledgered

L&B

346.4 x dis

9 51.0 40.0 53.6

166.2 50.6

216.8 104.2 + 1.55

346.0 + 1.48

40.8 54.8

165.6 54.9

270.5 109.7 + 1.42

R&a.

256.0 Mean = + 1.49

308.4 52.4

75.4 52.4

127.8 104.8 + 1.54

255.1 + 1.50

10 00.8 310.4 55.3

111.8 75.2 52.4

9 55.9 127.6 107.7 + 1.47

5 - 0.5

14 55.4 Gr. M. Time.

6052.622

Feb. 1, 1900

Star e' comp with x.

R of B   Ledgerett

230.2   x dis

10 06.4   334.0   98.8

52.1   97.1

149.2   195.9

164.1 — 0.30

232.5

332.6   100.1   —0.31

52.6   96.5

149.1   196.6

163.4 — 0.32

L & a.

143.6   mean = -0.28

241.7   98.1

324.5   95.7

60.2   193.8 = 0.26

166.2

145.2   —0.25

10 16.2   240.4   95.2

72.6   324.4   97.4

10 11 3   61.8   192.6 — 0.24

5 - 0.5   167.4

10 18 G.M.time

5052.633

Feb. 1, 1900

Star g comp with x

R & a.
346.3 x dist
10 24.4 39.6 53.3
163.2 57.1
220.3 110.4 + 1.41 Ledgered

342.5 +1.39
40.7 58.2
164.9 54.0
218.9 112.2 + 1.37

L & B
75.7 mean +1.34
129.0 53.3
254.2 58.2
312.4 111.5 + 1.38

72.1 ~~1.3[illegible]~~
10 56.08 132.3 60.2 +1.30
8 0.4 252.2 58.2
10 40.2 310.4 118.4 + 1.23
5 - 0.5
15 39.7 Gr M.Time
5052.653

Feb. 2 1900 (Friday)

Bond 394 | a.b. Dust
7 05 00.0 | 7 6 47.2

Phot T. T. Monocerotis W 6 lbs
9.5 inch cap used.

L & A.
348.4

6 17 + 7.2
4 18
1 59
10 01

7 22.6 | 36.7 48.3
169.1 48.6
217.7 96.9 − 1.73

~~Ledgered~~
Plotted

350.3
34.7 44.4
169.8 47.0
216.8 91.4 − 1.88

−1.80

R & B.
255.9
309.0 53.1
79.4 47.1
126.5 100.2 − 1.65

Mean = −1.73

−1.66

257.4
7 33.6 | 306.9 49.5
56.2 | 77.5 49.9
7 28.1 | 127.4 99.4 − 1.67
5 − 1.8
12 26.3 Gr. M. Time
5053.518
5036.070
+17.448

27.012
+17.448
−9.564

February 2, 1900

Same Again

R & B

255.5

7 38.2 308.0 52.5

77.7 50.3

128.0 102.8 — 1.59

257.4 — 1.62

300.9 49.5

77.7 50.3

128.0 99.8 — 1.66

L & A

170.7 mean = — 1.72

217.4 46.7

347.6 47.2

348 93.9 — 1.81

170.0 — 1.82

7 55.0 217.6 47.6

·93.2 348.7 45.1 4

7 46.6 ~~35.1~~ ~~93.7~~ — 18~~7~~

5 — 1.8 33.8 92.7

12 44.8 Gr. M. Time. | Final mean = — 1.72

5053.531

5036.070

+17.461

27.012

— 9.551

Feb. 2, 1900

Same again ~~III~~

L & a.

71.1

8 13.0 215.1 44.0

349.1 46.2

35.3 90.2 −1.91

−1.88

170.7

210.7 45.0

348.6 46.9

35.5 91.9 1.86

Ra B

~~79.4~~

−1.79

127.9 48.5

257.9 49.2

307.7 97.7 −1.71

78.0

8 21.0 127.6 −1.70

258.1 49.6

307.5 49.4

99.0 −1.68

Pos. angle Vera = 267.3

Sprocket wheel a System = 2.5

B much = 7.4

Reject last group, troubled by frost on eyepiece and high altitude

Feb 2, 1900

Phot W. o Ceti W Obs.
2 12 - 3.6
5 5 5
3 43

Lθa ~~Postet~~ plotted Ledgered

153.5
9 02.6 230.2 76.7
335.0 72.6
47.6 149.3 - 0.59

157.6 - 0.64
226.5 68.9
334.7 75.2
49.9 144.1 - 0.69
RθB
64.7 mean = - 0.64
139.2 74.5
240.8 73.2
318.0 147.7 - 0.62

67.0 - 0.64
9 12.2 136.8 69.8
14.8 244.0 76.0
9 07.4 329.0 145.8 - 0.66
5 - 1.8
14 05.6 Gr M time.
5053.587

Feb. 2, 1900

Same again.

R of B

64.4
9 15.0 138.3 73.9
246.0 72.2
318.2 146.1 − 0.65

66.3 − 0.63
138.4 72.1
243.9 76.0
319.9 148.1 − 0.61

L of A. mean = − 0.64
334.5
48.4 73.9
156.0 74.1
230.1 148.0 = 0.61

335.5 − 0.66
9 23.6 47.9 72.4
38.6 156.2 71.4
9 19.3 227.6 143.8 − 0.70
5 − 1.8
14 17.5 Gr. M. Time.
5053.596

Feb. 2, 1900

Circumpolar Variables

S Cygni W66.

20 8 +57.2

30 50

10 42

~~Region low, indentification somewhat doubtful. Est not to be used. If reg-con is correctly identified est. would be a~~

9 57 ~~g 2 var, var 2.5 h.~~

R Cassiop

23 52 +49.7

~~31~~

~~6~~

31 07

7 15

~~Posted~~

pesect

10.15 X 2.5 var, var 2.5 y

Region low, observations difficult.

R Ursae Maj.

10 32 +69.3

7 27

3 05

8 55

Posted

10 30 u 1.5 var, var 4 w in large telescope

Feb. 2, 1900

R Lyncis WOG

6 49 +55.1

7 42

0 53

10 47 ~~9k~~ 4 var, var 1 r

Posted

Σ 921

6 24 +11.4

8 00.

1 36

Abandoned

Feb. 3, 1900 (Saturday)

Bond 394 — a & Dent

7 00 000 — 7 03 12,1

phot T. T. Monocerotis Wds

9.5 inch cap used

6 17 + 7.2

4 22

1 55

10 05

L & a

171.0

7 23.0 — 217.3 — 46.3

348.7 — 46.3

34.0 — 92.6 — 1.84

171.3 — 1.82

217.5 — 46.2

347.1 — 48.1

352 — 94.3 — 1.80

R & B

78.2 — 50.8 — Mean = 1.74

129.0 — 49.2

257.4 — 100.0 — 1.66

306.9

1.66

78.3

7 33.6 — 129.5 — 49.2 — 5054.517

56.6 — 257.2 — 50.8 — 5036.070

7 28.3 — 308.0 — 100.0 — 1.66 — +18.447

5 - 3.2 — 27.01/2

12 25.1 Gr. M. Time. — - 8.565

Ledgered

Plotted

Feb. 3, 1900

Same again

R θ B

77.7
7 36.0 128.0 50.3
238.3 47.9
306.2 98.2 − 1.70

78.3 −1.66
127.8 49.5
254.2 51.8
308.0 101.3 — 1.62

L θ a. Mean = −1.72
348.0
35.9 47.9
169.3 46.7
216.0 94.6 = 1.79

348.3 −1.78
7 47.0 37.2 48.9
8 30 170.8 46.4
7 41.5 217.2 95.3 −1.77
5 − 32 Final mean = −1.73
12 38.3 Gr. M. Time Pos. Angle Ver. a. 257.0 by W. & C.

50 54.526 Smoothed wheel α System −2.4
50 36.070
+18.456 " " β " " −1.5
27.012
− 8.556

Feb. 3, 190.

Although pos. angle of var. & comp. star differs tonight by some 10 degrees from usual value, yet everything is all right. Both var. & comp. star as well as surrounding stars thoroughly identified both in large telescope & finder. Sprocket wheel has its usual reading.

S Cygni W 6b

20 8 +57.2

29 38

9 30

Posted. ✓

8 40 g 1.5 var, var 4 h

Power = 700

R Cassiop. ✓

23 52 +49.7 W 6b.

29 52

6 00

Posted.

8 53 μ 4 var, var 1 w Est 13.0

too faint for finder

1900phae.prop.1368W

Feb 3, 1900

T. Andromeda W Obs

0 17 +26.4

6 17

6 00

Too faint and low to measure

U Ceti W Obs.

2 29 -13.6

6 37

4 08

Too low

R Tauri

4 20 +10.9

6 40

2 20

Posted

10 00 - M 2 var, var 3 W

Est. in old notation fm Reeds chart.

V Cancri.

8 15 +18.2

7 11

1 04

10 56 Posted

8 18 +17.5

7 18

1 00

11 00 Est. in old notation

10 17 var = 0' on old chart marked 2976 upper left corner

Feb 3, 1900

Nova Aurigae

W 6h

5 26 + 32.0

7 36

Σ 10

~~too cloudy~~

Σ 1138 W 6h

Phot W. 7 40 - 14.4

7 5-3

0 12

Pos. ang. 356 Dist 15 secs.

magns 5.9 & 68

R⊕a clouds

330.8

10 53.0 49.8 brighter and southern dis.

161.1 clouds 79.0

222.2 61.1

140.1 + 077

341.0 +0.74

44.0 63.0

150.8 80.8

143.8 + 0.70

231.6 L⊕B

321.3 67.5 mean = +0.72

~~64.8~~ 134.0 66.5

~~130.2~~ 247.8 79.4

145.9 + 0.66

322.2

61.8 +070

11 03.0 142.8 81.0

11 6.0 251.2 61.3

10 58.0 142.3 +0.73

312.5

Feb 3, 1900

meas with some difficulty through clouds

Feb 5, 1900 (monday)

Bond 394 a & Dent
7 00 000 7 05 48.0
7 01 00.0 7 06 48.0

Phot. T. Monocerotis WObe
9.5 cap used. 6 17 + 7.2
4 37
1 40
L & a. 10 20

169.8 Ledgered
7 34.0 216.3 46.5 Plotted.
348.9 46.7
35.6 93.2 – 1.93

169.6 –,81
216.0 46.4
348.4 48.2
366 ·94.6 – ,79
R & B
76.2 mean – 1.76
129.0 52.8
259.6 47.1
3097 99.9 – 1.66

79.4 –1.70
7 43.4 126.8 47.4 5056.524
77.4 258.9 49.3 5036.070
7 38.7 +20.454
5 – 5.8 308.2 96.7 – 1.74 27.012
12 34.9 Gr. M. Time. –6.558

Feb 5, 1900.

Same again.

R&B

77.9

7 46.6 128.1 50.2"

259.5 47.5"

307.0 97.7" – 1.71"

78.6 −1.67"

126.8 48.2"

256.4 52.7"

309.1 100.9" – 1.63"

L&A. mean −1.74°

348.3

36.8 48.5"

169.4 47.0"

216.4 95.5 – 1.77"

349.9 −1.80"

7 58.0 36.3 46.4"

104.6 169.7 47.2"   Final Mean = −1.75

7 52.3 216.9 93.6" – 1.82"

5 –5.8 Pos. angle Var 257.3

12 46.5 Gr. M Time Sprochet wheel A System – 25

50 56.532 " " B " –15

50 36.070

+ 20.462 Region thoroughly identified

27.012

−6.550

Feb. 5, 1900

Phot T.   T. Andromeda   W Obs.
0 17 +26.4
5 27
5 10
L&B
186.0 <comp star dis.   Ledgered
8 35.0   200.9   14.9
9.3   13.9
20.2   28.8   + ~~5.0~~ 4.49
185.3   +4.43
200.5   15.2
5.0   15.2
20.2   30.4   +4.37
R&a
94.3   mean = +4.40
110.6   16.3   9
274.8   15.6
290.4   31.9   +4.27

95.0   +4.36
8 45.8   110.1   15.1
80.8   275.9   14.4   +4.44
8 40.4   290.3   29.5 Pos. angle Ver a = 71.0
5 - 5.8   Sprocket wheel A system -1.5
13 34.6 Gr. M. Time   "   " B "   -0.4
5056.566 ~~Impossible~~ Region getting rather low —
moon half full and not very remote
and stars faint and rather difficult too
faint to make it advisable to take another

Feb 6, 1900

great, settings made with care, and observation thought to be good

Phot W.	O Ceti	W6 b.
2	12	−3.6
6	1

abandoned

R Geminorum		W6 b.
7	0	+ 22.1
6	40	
0	20	Posted.
.11	40	

var = ε on my bount ~~blue~~ blue chart

9 55 which is apparently w in final notation book 3, page 98

Phot T.		R Ursae Min.		W 6 b.
16	34	16	34	+77.9
7	23	7	15	
9	11	9	19	
2	49	2	41	

See next page for meas.

Feb. 5, 1900

R Ursae Min

L & a.

344.3 <comp. Star

Ledgered
Plotted

10 20.0 40.8 56.5″
165.3 55.1″
220.4 111.6″ + 1.38″

345.4 + 1.39″
39.6 54.2″
164.4 56.7″
221.1 110.9″ + ,40
R & B
mean = + 1.3~~0~~6
253.1
317.5 58.4″
74.4 55.8″
130.2 114.2″ + 1.32″

255.6 + 1.34″
10 28.0 310.8 55.2″
73.3 57.5″
10 24.0 130.8 112.7″ + 1.36″
5 - 58
15 18.2 Gr. M Time
5056.637

Feb. 5, 1900

Same again.

R & B.

254.5
10 31.0 311.1 56.6"
75.0 54.2"
129.2 110.8" + 1.40"

255.3 + 1.38
310.7 55.4"
74.5 56.5"
131.0 111.9" + 1.37"

L & A.
163.9 mean + 1.40"
219.8 55.9"
347.2 52.6"
39.8 108.5" + 1.45

160.0 + 1.42"
10 37.6 220.2 55.2"
8.6 344.5 55.8"
10 34.3" 40.3 111.0" + 1.39" Final Mean = + 1.38
5 - 5.8 Pos Angle = Vera = 308.7
15 28.0 Sd. time Spr. Wheel C System - 4.7
5 05 6.644 " " B " - 5.5

Feb. 5, 1900

Nova Aurigae W Obs.

5 26 +32.0
8 06
2 40

abandoned

A. + D. 9.5 s.
~~B. + C. 11.2.~~
15 19 19.5
20 19.5

B. 394.
15 13 0.0
14 0.0

Dis of Jup II Phot. R.
W. Obsr.
Olcson, Recorder.

Compared with other sat. on preceding side = sat. III.

Chronometer correction =
between $15^h\ 13.0^m$ and $15^h\ 31.0^m = -6^m\ 20^s$.
" 15 31.0 and 15 49.0 = $-6^m\ 21^s$

Feby 5, 1900

15 30 45	15h	30m	30s		238.2	
−6 20			46	76.8	315.0	1
15 24 25			49	77.7	238.8	
		31	00	77.2	316.5	+ 0.5
31 18			06		238.0	
−6 20			15	77.0	315.0	2
24 58			21	66.8	244.2	
			30	71.9	311.0	+ 0.7
31 48			36		244.0	
6 −20			44	71.0	315.0	3
25 28			51	68.2	243.8	+ 0.8
			59	69.6	312.0	
32 20		32	08		242.0	
6 −20			16	67.0	309.0	4
26 00			23	65.8	242.2	
			32	~~[illegible]~~	308.0	+ 0.9
26 19			39	~~66.4~~ 60.1	246.9	+ 1.2
31			51	60.9	307.0	+ 1.2
40		33	00	58.7	246.1	+ 1.3
46			06	56.8	304.8	+ 1.3
53			13	55.9	248.0	+ 1.4
27 04			24	50.1	303.9	+ 1.7
15			35	45.4	253.8	+ 1.9
25			45	45.2	299.2	+ 1.9
36			56	41.2	254.0	+ 2.1
46		34	06	36.1	295.2	+ 2.4
55			15	30.0	259.1	+ 2.9
28 06			26	28.4	289.1	+ 3.0

Feb. 5. 1900.

~~15 34 37 284.5~~
~~35 07~~ Reject ~~290.0~~

15 29 03 ~~33~~ 35 23 28.3 260.7 / 270.7 +3.0
13 33 289.0

Not seen later
Limit of Visibility

30 40 15 36 / 37 00 259.9
31 00 21 32.2 292.1
19 40 31.7 259.3
58 38 19 32.0 291.0 +2.7

3/14

117
180
4|29.7
274
31 14

A. + D. 95 A.
~~B. + C. 1142~~
B. 394.

16 4 22.0
5 22.0

15 5A 0.0
59 0.0

Feb. 6, 1900 (Tuesday)

Bond 394 ~~aoDens~~
7 00 000.0 7.07 118

Phot T. T. Monocerotis W Obs.

6 17 +7.2
~~7~~ 44
~~1~~ 33
~~10~~ 27
10

L&A.
347.7
7 38.0 36.2 48.5
170.9 44.7
215.6 93.2 − 1.83

Plotted
Ledgered

350.1 −1.88
343 44.2
170.2 45.3
215.5 89.5 − 1.93
RTB
257.0 mean = −1.79
308.5 51.5
79.0 48.0
127.0 99.5 − 1.67

259.2 −1.70
7 47.0 309.6 47.4
85.0 77.2 49.1 5057.524
7 42.5 126.3 96.5 − 1.74 5036.070
5 −7.2 +21.454
12 35.3 Gr M Time. 27.012
−5.558

Feb. 6, 1900

Same Again

R & B

257.7
7 50.4 307.9 50.2+
78.3 48.7+
127.0 98.9+ − 1.68+

258.3 −1.70+
307.3 49.0+
78.8 48.9+
127.7 97.9+ − 1.71+

L & A mean = −1.77+

169.3
217.0 47.7+
349.6 46.3+
35.9 94.0+ − 1.81+

169.2 −1.84+
8 03.4 216.0 46.8+
11 3.8 348.4 49+
7 56.9 33.3 97 = 1.87+
5 −7.2

Pos. angle Vera a 257.1

12 49.6+ G. M. time Sprocket wheel a System −2.4
5057.535± " " B " −1.5
5036.070
+21.465+
27.01
−5.547+

Feb. 6, 1900

Phot W. o Ceti W Ok.

2 12 2 12 -3.6

5 43 5 27

3 31 3 15

L & a. Ledgered

Plotted.

152.2

837.0 230.6 78.4$^+$

334.9 74.1$^+$

49.0 152.2$^+$ -0.53$^+$

154.4 -0.54$^+$

229.0 74.6$^+$

332.6 76.4$^+$

49.0 151.0$^+$ -0.56$^+$

R & B

62.6 Mean = -0.54$^+$

138.8 76.2$^+$

242.3 76.3$^+$

318.6 152.5$^+$ -0.53$^+$

64.8 -0.54$^+$

8 46.0 138.8 74.0$^+$

8 3.0 243.9 76.8$^+$

8 41.5 320.7 150.8$^+$ -0.56$^+$

5 -7.2

13 34 3$^+$ Gr M Time.

5057.565$^+$

Feb. 6, 1900

R + B.
63.2
8 48.0 139.4 76.2+
244.0 76.2+
320.2 152.4+ — 0.5~~7~~3 ×

64.7 −0.54 ×
139.8 75.1+
243.4 75.8+ +
309.2 150.9+ − 0.56

L + a.
333.8 mean = 0.54+
49.9 76.1+
153.6 75.4+
229.0 151.5+ − 0.55×

332.1 −0.53
~~8 57.0~~ 49.3 77.2+
105.0 153.5 75.9+
8 52.5 229.4 153.1+ − 0.52 1
5 − 7.2
13 453 Gr M time
5057.573+ ×

Feb. 6, 1900

ε Orionis W 6½

Phot T. 5 30 −1.3
6 21
0 51

Above Star x with star (a) 6.8
~~Low~~

95.9 ∠ a dis. Ledgered
9 23.0 110.0 14.1″
275.0 14.9″
289.9 29.0″ + 4.48″

96.0 + 4.54″
109.7 13.7″
275.3 13.9″
289.2 27.6″ + 4.59″
Below
6.4 Mean = + 4.66″
18.5 12.1″
186.0 13.3″
199.3 25.4″ + 4.77″

6.0 + 4.77″
9 32.0 18.8 12.8″
55.0 186.2 12.6″
9 27.5 198.8 25.4″ + 4.77″
5 − 7.3
14 20.2 Gr M Time
5057.597″

Feb. 6, 1900

Same again.

	Below		
	6.4		
9 36.0	19.2	12.8^{+}	
	186.3	13.0^{+}	
	199.3	25.8^{+}	$+4.73^{+}$
	6.0		$+4.76^{+}$
	18.2	12.2^{+}	
	185.7	13.0^{+}	
	198.7	25.2^{+}	$+4.79^{+}$
	Above		
	275.4		mean = $+4.61^{+}$
	290.2	14.8^{+}	
	95.6	14.2^{+}	
	109.8	29.0^{+}	$+4.48^{+}$
	275.8		$+4.46^{+}$
9 44.0	290.1	14.3^{+}	
	95.0	15.0^{+}	
9 40.0	100.0	29.3^{+}	$+4.45^{+}$
5 - 7.3			
14 32.7 Gr M time.			
5057.606			

Feb. 6, 1900

16 34 +72.9
7 34
9 00
8 · 00

Phot T. T. Persei W Obs.
2 8 +57.2
7 53
5 45
Abandoned.

Phot W. E 11 38 W Obs.
7 40 −14.4
8 02
0 22

Magns. 6.0 & 6.9.
Pos angle 350°.
Distance 16 sec

see next page

Feb. 6, 1900

Phot W ≦ 1138. W Obs.

R & a.

151.5 < brighter dis

10 54.0 230.7 79.2

340.1 61.3

41.4 140.5 + 0.76

160.4 + 0.79

220.1 59.7

331.0 78.0

49.0 137.7 + 0.82

L & B.

67.0 mean = + 0.80

140.5 78.5

249.7 60.9

310.6 139.4 + 0.79

71.4 + 0.80

11 05.6 131.2 59.8

122.6 242.0 77.9

11 01.3 319.9 137.7 + 0.82

5 - 7.3

15 54.0 Gr. M. Time.

5057.662

Feb 7, 1900 (Wednesday)

Bond 394   Q o Dent 118
7 02 00.0   7 10 35.2

Phot T.   T. Monocerotis   W Obs
6 17 +7.2
4 40
1 37
10 23

~~Ld~~

9 3 cap used.

L+a   Plotted

171.3   Ledgered
7 32.0   216.6   45.3*
351.1   42.9*
340   88.2*   −1.96*
171.3   − 1.90*
215.9   44.6*
347.7   48.2*
35.9   92.8*   −1.84*
R 73
78.4   mean = −1.85*
127.9   49.5*
259.9   45.5*
305.4   95.0*   −1.78*
80.6
7 42.0   120.4   44.8*   −1.80*
74.0   258.4   48.7*   5058.519*
7 37.0   307.1   93.5*   −1.82*   5036.070
5 − 8.6   +22.449
228.4   27.012
−4.563

Feb. 7, 1900

Same Again.

R + B.
79.0
7 43.4 127.3 48.3*
260.4 46.2*
306.6 94.5* - 1.80*

-1.78*

79.5 47.4*
126.9 49.0*
258.3 96.4* - 1.75*
307.3

L + A. Mean = -1.89*
171.8
215.2 43.4*
350.9 43.3*
34.2 86.7* - 2.00*

171.0 2.00*
8 01.0 215.0 44.0*
106.4 350.4 43.2*
7 53.2 33.6 87.2* - 1.99*
5 - 8.6
12 44.6 Gr. M. Time.
5058.531*
5036.070
+22.461*
27.012.
-4.551

Feb. 7, 1900

Same Again

L&A.

171.5

8 13.0 215.3 43.8″

359.8 43.5″

34.3 87.3″ −1.99″

−1.96″

170.9

214.4 43.5″

349.5 45.4″

34.9 88.9″ −1.94″

R&B.

Mean = −1.85″

78.1

126.7 48.6″

259.2 47.4″

304.6 96.0″ −1.76″

−1.74″

79.1

8 23.0 126.9 47.8″

36.0 ~~208.3~~ 49.3″

8 18.0″ ~~306.8~~ −1.73″

5 −8.6 307.6 97.1

13 09.4″ Gr. M. time.

5058.048″

5036.070

22.478″

27.012

−4.534″

1900.
Feb. 7, ~~1899~~

Troubled somewhat throughout observations by thin but pretty uniformly distributed clouds. Moon also rather bright and not very far distant, but observations considered pretty good.

Pos. Angle Vernier A 77.4
Sprocket Wheel. A System - 2.5
B " - 1.2
Clouds "coming,"
Telescope accidently moved off region before images were quite supperposed. (they were almost exactly supperposed) this lack of perfect supperposition would only affect pos. ang. and that only a little.

Phot 4 7. Persei W. Ob.
2 8 +57.2
6 14
4 06

Too cloudy in this region

Feb 7, 1900

Star near R Ursae Min.

16 34 +72.9
6 22
10 12
1 48

9 10 Cloudy
Star g comp. with d.

R & a.

~~64.7~~

~~9 54.0 · 136.2 < d dis 71.5~~
~~250.6 61.0~~
~~311.6 132.5 + 0.93~~
~~Clouds~~
~~L & B.~~
~~340.0 + 1.05~~
~~44.4 61.4~~
~~10 04.0 162.8 59.7~~
~~222.5 121.1 +1.17.~~

Reject above, as observations were very uncertain and considered only experimental. Made through thick clouds and stopped by clouds.

Feb. 7, 1900

M P441 W Obs.

Phot. R.

331 #628
7 40
4 09

Too Cloudy

Phot R. Σ 1138 W Obs.

7 40 - 14.4 7 14. -144
8 04 7 58
0 24 44
11 36 11 16

No stars visible in this
10 45 region

Too cloudy for anything
10 50 further

Feb. 10, 1900 (Saturday)

T. Monocerotis

6 17 +7.2

Phot T. 6 03 W. 6h

0 14

11 46 9.5 Cap used.

Above Ledgered.

356.5 Clouds Plotted.

8 47.0 27.2 30.7+

178.4 29.4+

207.8 60.1+ − 2.86+

356.7

26.6 29.9+ −284+

177.4 31.2+

208.6 61.1+ − 2.82+

Below

266.3 Clouds,

299.3 33.0+ Mean = −2.80+

88.0 31.1+

119.1 64.1+ − 2.71+

267.9 −2.76+

8 56.0 298.7 Clouds. 30.9+

1030 87.4 30.3+

8 51.5 117.7 61.2+ − 2.81+

5 −12.7

1338.8 Gr M Time

5061.569 27.012

5036.070 +25.499

+25.499+ −1.513

Feb 10, 1900

Same again.

Below
265.8
9 06.0 298.2 32.4″
87.1 31.2″
118.3 63.6″ = 2.73″

266.1 -2.73″
298.0 31.9″
87.0 31.7″
118.7 63.6″ - 2.73″

Above Mean = -2.80″
179.2
208.0 28.8″
357.4 31.0″
28.4 59.8″ -2.87″

177.2 -2.86″
9 20.0 207.3 30.1″
26.0 357.2 30.3″
27.5 60.4″ - 2.84″

9 13.0 Clouds.
5 -12.7
14 00.3 Gr. M. Time.
5061.583
5036.070 27.012
+25.513 25.513
-1.499

Feb 10, 1900

Same Again

Cap removed, full aperture used now.

Above

179.4

% 150.0 209.4 30.0

~~306.1~~ 31.0

27.1 61.0 − 282

178.4 −281

209.2 30.8

357.1 30.7

278 61.5 −280

Below

87.9

17

2

2

Stopped by clouds

Pos Angle

~~Sprocket Wheel~~ = 257° Vera

Sprocket Wheel = a System − 2.6

" " = B " −1.5

Phot T. R Camelos. W6k

14 46 +84.1

7 32

7 12

74 48

Feb, 10, 1900.
R Camelo

10 10 Abandoned no stars visible

Observations on T. Monocerotis taken with difficulty through clouds, but great care exercised in settings.

Last eight settings only experimental with full aperture. These settings seem to confirm previous groups as far as they go. Clouds however prevented finishing them.

Impossible to continue further
10 15 all thickly cloudy.

Bond 394.	at Dent 958
10 04 60.0	10 16 44.5
10 05 60.0	10 17 44.7

This book
all Posted
LC