KG
11366
v.366

Book R.115

Book

R 115

March 28, 1900 Wednesday

continued from R, 114.
Selection of Standards for
T. Hydrae W Ok.

8 52 − 9.0
9 12
0 20

no. 24 mag. 10.3
30 " 10.6
22 " 10.2
29 " 10.4
25 " 10.3
(35 " 11.0)
23 10.2

Phot. meas. of comp. stars
for R Camelop Phot I W Ok.

14 40 + 84.1
9 58
4 42
7 18

no Blue glass used on
Star r the following 36
settings

950.2 26.2
26.2
25.8
51.6 25.9

(over)

March 28, 1900

Star m

9 52.4	23.2
	23.1
	22.8
53.3	23.1

Star g

55.3	15.8
	15.8
	15.7
56.6	15.6

Star r again

58.0	25.9
	25.9
	26.2
10 00.3	25.9

Star m again

01.0	22.6
	22.8
	22.4
02.4	22.6

Star g again

03.3	16.1
	15.4
	14.8
04.3	15.3

March 28, 1900

Star r again.

1005.8 25.8
25.9
25.6
07.4 25.7

Star m again.

08.7 22.3
23.1
22.4
09.7 22.6

Star g again.

10.5 16.1
15.8
15.3
11.5 15.6

Blue glass put in on following ~~good~~ settings

Star r

1014.6 21.6
21.8
22.1
16.3 21.8

Star m

16.8 18.6
18.9
19.1
17.8 19.1

(over)

March 28, 1900

Star g

10 18.4	8.9
	7.4
~~10.1~~	8.1
19.9	6.8

Star r again

21.9	22.1
	22.0
	21.8
22.3	21.9

Star m again

23.1	18.8
	18.8
	18.8
24.3	18.8

Star g again

24.9	7.7
	8.3
	8.8
2~~5~~6.1	7.7

Star r again

27.3	21.9
	21.8
	21.8
28.8	22.4

March 28, 1900

Star m again

10 29.4 18.7
18.8
19.2
30.4 19.1

Star g again.

31.0 7.9
7.8
7.4
32.1 7.7

Phot. T. X Herculis W Clk.

15 58 + . 47.6

11 18

4 40
7 20

see next page for measurements

9.5 cap used.

March 28, 1900

V Herculis

	Rt Above			Ledgered Plotted Posted
	166.8	L var dis		
10 45.3	219.4	52.6		
	349.3	48.2		A
	37.5	100.8	−1.64	
	169.9		−164	
	215.2	45.3		
	340.6	55.1		
	40.7	100.4	−160	
	Lt Below			
	76.1		Mean = −1.62	
	127.6	51.5		
	258.5	49.0		
	307.5	100.5	−164	
	78.8		−1.60	B
10 52.7	127.4	48.6		
	255.7	55.6		
10 49.0	311.3	104.2	−155	

5 −5.1

10 43.9 Sd. M. Time

5 107.656

5 078.000

+29.656

Posted

March 28, 1900

Same Again.

L & Below

75.6
10 55.0 127.7 52.1* B
258.0 51.4*
309.4 103.5* — 157*

801 −162*
129.3 49.2*
257.5 50.1*
307.6 99.3* — 167*

R. & Above. Mean = −162*
167.8
219.8 52.0* A
348.2 49.5*
37.7 101.5* — 162*

169.1 — 162*
11 02.4 217.4 48.1*
117.4* 346.2 53.2*
10 58.7* 39.7 101.3* — 162* Final Mean = −162*
5 − 5.1 Pos. Angle Ver. a, = 173.9
10 53.6* Gr. M. Time Sprocket Wheel A = −7.5
5 107.662* B = −6.5
5078.000
+29.662*

March 29, 1900 (Thursday)

Bond 394
6 58 0.0
6 59 0.0
7 00 0.0

a & Dent
7 03 23.0
7 04 23.0
7 05 23.0

T Monocerotis
Phot T. 9.3 cap used W.C.be.
6 17 + 7.2
8 10
1 55

R & Above
169.1
7 43.0 218.8 49.7
348.5 46.1
34.6 95.8 − 1.76

~~Ledgered~~
~~Plotted~~

173.3
215.4 43.1
349.4 47.6
37.0 90.7 − 1.90
− 1.83

Mean = −1.72

L & Below
1 76.5
2 130.5 54.0
3 258.9 46.9
305.8 100.9 − 1.63

− 1.62

1 79.9
7 52.2 2 127.9 48.0
95.2
7 47.6 3 255.9 54.0
5 −5.6 309.9 102.0 1.61

12 42.2 G.M. Time
5108.029
5090.09
+1 [illegible]

March 29, 1900

Same Again.

Lt Below

79.4
8 00.5 128.5 49.1
259.0 48.7
307.7 97.8 -1.71

79.2 -1.66
128.2 49.0
256.8 52.5
309.3 101.0 -1.62

Rt Above

349.2 Mean = -1.74
37.6 48.4
171.0 45.1
216.4 93.5 -1.82

350.0 1.82
8 10.0 36.3 46.3
8 5.2 169.9 47.2
5 - 0.4 217.1 93.5 -1.82
12 59.8 Gr. M. Time. Final Mean = -1.73
5708.542 Pos. Angle = 81.7
5090.094 Sprock Whaler = -2.5
+18.448 ∴ B = -1.5

March 29, 1900.

Meas. of comp stars for R Camelop with Phot X W.Cb. –

14 40 +84.1
9 02
5 38
6 22 Blue glass in on all of following settings.

Star r

9 07.7 21.9
21.8
21.8
09.7 22.0

Star m

10.6 18.9
18.3
18.6
12.6 18.8

Star g

13.7 10.6
10.3
10.9
15.4 10.1

Star r

16.6 22.0
21.9
21.8
9 18.6 22.1

March 29, 1900

Star m

9 19.7 19.1
18.4
18.7
21.5 18.8

Star g

22.7 11.5
11.4
10.5
24.7 11.2

Star i

25.9 21.7
22.4
22.1
28.2 21.9

Star m

29.2 18.9
19.0
18.8
30.7 18.6

Star g

31.7 11.3
10.9
10.7
9 33.1 10.9

(over)

March 29, 1900

Star p

9 42.4 21.4
21.5
20.8
44.8 21.4

Star o

48.0 20.4
20.7
20.2
49.4 20.2

Star k.

51.4 17.0
17.2
16.9
52.4 17.2

Star p

56.2 21.3
21.4
21.5
9 57.8 21.3

Star o

10 01.7 20.3
20.0
20.4
10 03.~~8~~4 20.3

March 29, 1900

Star k.

10 05.7	16,8
	16,8
	17,0
06.8	17,0

Star p

09.8	21,3
	21,5
	21,4
11.3	21,3

Star σ

13,6	20,4
	20.5.
	20,3
14,8	20,~~4~~3

Star k.

16,0	17.2
	17,2
	17,2
$1\overset{4}{7}.2$	17,1

March 29, 1900

Meas. of Standards near
T. Hydrae Phot. T. W 6b.
8 5-2 -9.0
11 12

2 20
Hagen no 2K (9.1)
Above Star ^ comp. with Hagen No 14
75.1 < comp. star dis. =
10 43.8 131.5 56.4* Ledgard
206.2 57.4*
307.6 107.8* +1.47*

78.2 +1.50*
129.7 51.5*
256.0 54.3*
310.3 105.8* +1.52 *
Below mean = +1.58
347.4
39.4 52.0*
168.8 49.2*
218.0 101.2* +1.63*

348.6 +1.65?
10 51.3 35.6 47.0*
95.1 166.8 52.4*
10 47.6* 219.2 99.4 +1.67*
5 -5.4
10 42.2* Gr. M. Time
5108.654*

Posted

March 29, 1900.

Hagen No 30
Star ^ comp with (91) Hagen No 14

Below

350.8 < comp star dis. ~~Ledgered~~

10 53 5 340 43.2^{x}

174.0 40.5^{x}

214.5 83.7^{x} + 2.09^{x}

353.7 + 2.13^{x}

32.6 38.9^{x}

172.2 41.8^{x}

214.0 80.7^{x} + 2.17^{x}

Above Mean = 2.12^{x}

261.3

303.8 42.5^{x}

82.3 40.7^{x}

123.0 83.2^{x} + 2.10^{x}

261.8 + 2.12^{x}

11 00.5 302.6 40.8^{x}

114.0 81.5 41.5

10 57.0^{+} 123.0 82.3^{x} + 2.13^{x}

5 -5.4

15 51.6^{+} Gr. M. Time

0.708.661^{x}

~~30~~

March 31, 1900 Saturday

Bond 394 — α & Dent

7 08 0.0 — 7 13 39.5

7 09 0.0 — 7 14 39.5

7 00 Cloudy

T. Monocerotis W6k

Phot T. 9.5 cap used

6 17 +7.2

8 12

1 5.5

7 30 Cloudy

8 00 Clouds

169.9

8 08.0 216.4 Right & Above

350.8

344

170.0 clouds Reject

2 ,

3 ,

3 ,

New Start

March 31, 1900

I.

Plotted.

Ledgered.

R ⊙ Above

171.3

8 16.0 213.5 44.2*

347.4 48.3*

85.7 92.5* — 1.85*

172.2 — 1.88*

47.2 45.0*

349.2 45.6*

348 clouds 90.6* - 1.90*

L ⊙ Below

47.8 Clouds mean = -1.77*

126.1 48.3*

258.0 51.6*

309.6 99.9* — 1.66*

78.3 -1.66*

8 31.0 126.7 48.4

47.0 258.1 51.2*

8 23.5* 309.3 99.6* — 1.67*

5 -5.7

13 17.8* Gr. M. Time

5110.554*

5090.094

+20.460*

March 31, 1900

Same Again.

Lt Below.

~~77.3~~
~~8 34.0~~ ~~127.5~~ ~~50.2~~ Reject ~~these~~ settings
~~257.9~~ ~~50.4~~
~~308.3~~ ~~100.6~~ —
new start. II

78.2 Lt Below
9 25.0 127.8 49.6
258.1 49.1
307.2 98.7 −1.69

~~Rt Above~~ −1.69

79.1
127.6 48.5
258.2 50.2
308.4 98.7 −1.69

Rt Above mean = −1.76

~~348.8~~
35.4 46.6
169.5 46.1
215.6 92.7 −1.84

−1.82
349.4
9 37.0 36.4 47.0
62.0 169.7 47.1
9 31.0 216.8 94.1 −1.81
5−5.7
1425.3 Gr M.T.

5110.601
5090.094
+20.507

March 31, 1900

Same Again III

R & Above

350.0

9 41.6 35.7 45.2

170.2 47.2

217.4 92.4 -1.85

350.2 -1.86

36.8 46.1

170.3 46.1

216.4 92.2 -1.86

L & Below mean = 1.78

260.0

309.0 49.0

79.6 47.9

127.5 96.9 -1.73

258.4 -1.70

9 51.6 308.4 50.03

9 46.6 78.03 49.7

5 -5.7 127.7 99.73 -1.67

14 40.9 Gr. M. Time. Final mean = -1.77

5 110.612 Pos. Angle Vera. 261.7

5090.094 Sprocket Wheel A -2.5

20.518 " " B -1.5

March 31, 1900
7 in cas on [illegible]
Phot T. 6 33 + 1.00 W Obs
10 48.
4 15

Lt Above
Plotted.
Ledgered.

86.1
10 06.0 122.7 36.6
265.9 32.7
298.6 69.3 − 2.53

86.3 − 2.52
120.5 34.2
263.7 35.9
299.6 70.1 − 2.50
Rt Below mean = −2.56
355.4
30.0 34.6
177.0 33.1
~~20~~ 67.7 − 2.59
210.1

357.0 − 260
10 13.0 29.0 32.0
19.8 175.7 34.6
10 9.5 210.3 66.6 − 262
5 − 3.7
15 3.8 Gr. M. Time.
5 110.628
5 109.147
+1.481

March 31, 1900

R & Below

353.6

10 14.6 30.6 35.0

177.8 32.3

210.1 67.3 - 2.60

357.2 - 2.60

30.3 33.1

175.7 33.9

209.6 67.0 - 2.61

L & Above mean = -2.57

264.9

299.6 34.7

86.8 33.9

120.7 68.6 - 2.55

266.5 - 2.54

10 21.0 299.6 36.1

36.6 85.4 36.1

10 17.8 121. 69.2 - 2.53

5 -5.7 Final mean = -2.56

15. 121 G.M.Time. Pos Angle Ter a = 170.3

5 110.633 Sprocket Wheel a = -6.2

5 109.147 B = -5.5

+1.486 C = -4.7

March 31, 1900

Selection of Stand near V Cancri

8 16 . +17.9
17 36 W 6h.
3 20

8 14 + 179
11 44
3 30

8 17 + 1.7 2
11 45
3 28

11 05 8 17 + 17.6
11 08
3 31

april 1
~~March 31~~, 1900 Sunday

Bond 394 a+Dent
6 44 0.0 6 49 430
6 45 0.0 6 50 430
6 46 0.0 6 51 430

T. Monocerotis
Phot T 9.3 cap used N Ok
6 17 +7.2
7 20
1 33

Rt Above

348.8
7 11.0 35.8 47.0
171.8 44.2 Plotted
216.0 91.2 -188 Ledgered
350.4
39.0 44.6 -1.83
169.0 50.6
219.6 95.2 -178

Lt Below mean = -1.78
178.2
129.6 51.4
261.3 45.5
306.8 96.9 -1.73
81.0
7 21.6 126.2 45.2 -1.72
32.6 257.1 52.4
7 16.3 309.3 5 97.6 -1.72
6-5.7

12 10.6 Gr. M. Time
5111.508
5090.094
+21.414

April 1, 1900

Same Again — II

Left + Below

256.1
7 27.2 308.7 52.6
80.1 46.7
126.8 99.3 — 1.67

-1.70

260.1
305.9 45.8
77.5 51.3
128.8 97.1 — 1.73

Right + Above Mean = 1.76
167.9
218.6 50.7
351.0 44.2
35.2 94.9 — 1.79

-1.82

168.8
7 37.0 218.8 50.0
7 32.1 351.5 42.7
5 5.7 34.2 92.7 1.84
12 26.4 amt.
5111.518
5090.094
21.424

Posted

april 1, 1900

Same Again ~~##~~

R & Above

172.1
7 44.0 215.4 43.3
350.2 46.6
36.88 89.9 −1.92

169.5 −1.90
217.7 48.2
301.6 43.6
35.2 91.8 −1.87

Lt Below mean = −1.80

80.2
128.9 48.7
258.6 50.5
309.1 99.2 −1.68

−1.71
78.8
7 51.0 129.0 50.0
261.0 46.7
95.0 307.7 96.7 −1.74
7 47.5 Final mean = −1.78
5 −3.7
12 41.8 Gr. M. Time.

Position angle Vera = 262.6

5711.5 29
5090.094 Sprocket wheel a = −2.3
+21.435 b = +1.5

April 2, 1900 (Monday)

Bond 394 ~~a o Dent~~

7 09 0.0 7 14 48.7

7 10 0.0 7 15 48.6

Phot T. T. Monocerotis W 6h.

9.5 cap used.

cloudy 6 17 +7.2

8 23

2 06

R & Above

350.6

7 28.0 36.2 45.6

172.5 41.7

214.2 87.3 −1.99

Plotted.

Ledgered.

353.4 −1.97

33.9 40.5

168.7 48.3

217.0 88.8 −1.95

L & Below mean = 1.90

260.0

307.8 47.8

80.5 46.6

127.1 94.4 −1.80

261.2 −1.82

7 36.0 305.5 44.3

66.6 78.9 48.7

7 32.0 127.6 93.0 −1.83

5 −5.8

12 26.2 G.M. Time

5112.578

5090.094

~~Mar~~ April 2, 1900

Same Again.

II

Lt Below

258.1
7 40.0 307.4 49.3
80.3 46.3
126.6 95.6 –1.77

260.5 –1.79
306.7 46.2
79.2 47.9
127.1 94.1 –1.81

Right & Above Mean = –1.87
171.8
216.5 44.7
350.7 44.5
35.2 89.2 –1.94

170.8 –1.95
7 49.6 216.5 45.7
351.0 42.6
7 44.8 33.6 88.3 –1.96
5 – 5.8
12 39.0 G.M. Time
5 11 25 27
5 09 00 94
+22.433

April 2, 1900

Same Again III

Right & Above

171.0
7 58.0   215.9   44.9
350.7   45.1
35.8   90.0   −1.91

171.8   −1.92
216.7   44.9
350.6   44.6
352   89.5   −1.93

Left & Below   Mean = 1.85

79.4
127.3   47.9
260.0   46.5
306.5   94.4   −1.80

79.5   −1.78
8 07.0   127.5   48.0
125.0   259.0   47.9
8 2.5   306.8 9   95.9   −1.76
5 −3.8
12 56.7 Gr M Time.   Position Angle Ver a. = 261.8
5112.540   Sprocket Wheel a = −2.5
5090.094   " " B = 7.5
+22.446 Observations made through some light clouds

April 2, 1900

Measurements of Standards near
Phot. T. T. Hydrae W Obs.

8 52 - 9.0
9 18
0 26

L & above Star Hagen No 24 Comp with Hag. 14
258.7 < comp star dis

8 41. 309.0 50.3 Ledgered.
77.2 57.5
128.7 101.8 + 1.61

257.5 +1.60
308.3 50.8
77.0 57.6
128.6 102.4 + 1.60
R & Below Mean + 1.63
168.0
219.4 57.4
347.5 48.8
36.3 100.2 + 1.65

170.3 +1.66
8 57.3 218.2 47.9
92.7 347.4 51.1
8 46.4 38.5 99.0 + 1.68
0 - 5.8
13 40.6 Gr M time.
5112.570

April 2, 1900

Star Hagen No 30 comp with Mag. 14

R & Below — Ledgered.

353.7 L comp ~~star~~ dis.

8 5 8.0 32.3 38.6

174.5 39.9

214.4 78.5 +2.24

354.1 +2.25

31.9 37.1

173.8 40.8

214.6 77.9 +2.26

L & Above mean = +2.20

260.2

305.2 45.0

85.1 38.6

123.7 83.6 + 2.09

263.2 +2.14

9 05.6 300.8 37.6

1236 82.8 42.1

9 1.8 126.9 79.7 + 2.20

5 – 5 8

13 56.0 Gr. M. Time

5112.581

April 2, 1900

Star Hager No 29 comp with Hag. 14.

L & above

~~7~~98 comp star dis.

9 14.0 126.0 46.2 Ledgered.

260.1 43.9

304.0 90.1 + 1.91

83.4 + 1.94

125.9 42.5

261.1 44.9

306.0 87.4 + 1.98

Right & Below mean = + 1.97

352.0

34.4 42.4

172.0 43.3

215.9 3 86.7 + 2.03

351.4 + 2.00

9 21.3 35.8 44.4

35.3 172.3 43.4

9 17.6 215.7 87.8 + 1.97

5 - 5.8

14 11.8 Gr. M Time

5112.592

April 2, 1900

Star Hagen No. 27 comp. with Hagen No. 14

Ro Below

175.6 < comp. stars dis.

9 25.0 214.5 38.9^+ Ledgered

352.9 40.3^+

332 Clouds 79.2^+ $+2.22^+$

172.1 $+2.20^+$

212.7 40.6^+

353.7 39.7^+

33.4 80.3^+ $+2.19^+$

Lo Above mean $= +2.17^+$

83.3

124.2 40.9^+

261.7 41.8^+

303.5 82.7^+ $+2.12^+$

83.0 $+2.14^+$

9 ~~4~~3.4 123.7 40.7^+

68.4^+ 262.0 40.6^+

9 34.2^+ 302.6 81.3^+ $+2.16^+$

5 −5.8

14 28.4^+ Gr. M. Time.

5112.603^+

April 2, 1900

Star Hagen No. 25 comp. with Hagen No 14.
L + Above

81.2 < comp. star dis. Ledgered.
9 51.7 126.3 45.1
258.8 46.1
304.9 91.2 + 1.88

+1.84

81.5
126.9 45.4
208.1 49.0
307.1 94.4 + 1.80

R & Below mean = +1.84
347.9
38.5 50.6
171.7 43.3
215.0 93.9 + 1.81

350.9 +1.84
9 07.8 347 43.8
9.5 168.8 47.8
9 04.8 216.6 91.6 + 1.87
5 - 0.8
14 49.0 Gr. M. Time.
5112.617

April 2, 1900

U Geminorum

Phot T. 7 59 +22.0 W6b.
11 19
3 20

Comp Star = DM+22° 1808 (8.2)

L&a.

339.5 < comp star dis =

10 39 30 45.3 65.8 Ledgered.

159.3 68.6

227.9 134.4 + 0.89

338.4 +0.86

42 20 47.3 68.9

108.2 68.7

226.9 137.6 + 0.82

R&Below Mean = +0.81

247.0

44 20 319.6 72.6

69.6 70.3

139.9 142.9 + 0.72

249.1 +0.76

46 20 318.0 68.9

172 30 70.2 69.6

10 43 08 139.8 138.0 + 0.80

5 -~~5~~ 4 - ~~49~~ 28

15 3~~7~~8 ~~19~~ 40 Gr. M. Time.

5112.652

April 2, 1900

Same Again

~~#~~

R & Below

	245.0		
10 48 55	320.2	75.2	
	68.0	70.5	
	138.9	145.7	+ 0.66

+ 0.70

	249.0		
52 00	320.6	71.6	
	68.3	70.8	
	139.1	142.4	+ 0.73

L & Above

Mean = + 0.78

	160.2		
54 35	227.6	67.4	
	339.2	68.1	
	47.3	135.5	+ 0.87

+ 0.87

	159.6		
10 57 40	224.7	65.1	
2 13 10	337.2	70.1	
10 53 18	47.3	135.2	+ 0.87

Final Mean = + 0.80

5 - ~~5~~ 4 - ~~49~~ 28

15 48 ~~20~~ 50 Gr. M. Time

5112.659

Position Angle Vernier A 173.2

Sprocket Wheel A System -4.3

" " B " -3.5

" " C " -2.8

Posted

April 2, 1900

R Lyncis. W 6b.

6 49 +55.1
12 06
5 17

11 00 Too much cloud & haze.

Watch used on U Geminorum = 4^{m} 28.5 secs fast.

April 3 1900 (Tuesday)

Bond 394	Bliss & Creighton
7 00 0.0	7 0.0 13.5
7 01 0.0	7 01 13.7

Phot T. τ Monocerotis W Obs.

9.5 cap used.

6 17 +7.2
8 17
2 00

R & Above

Plotted.
Ledgered.

172.4
7 23.0 215.6 43.2×
354.5 37.8×
323 81.0× - 2.17×
- 2.18×

174.7 37.7×
212.4 42.5×
350.5
333.0 80.2× - 2.19×

R & Below mean = - 2.11×

79.6
125.5 45.9×
262.2 41.6×
303.8 87.5× - 1.98×
- 2.04×
82.9
7 30.4 122.3 39.4×
53.4. 260.9 44.3×
7 26.7× 305.2 83.7× - 2.09×
5 0.2
12 26.5× Gr. M. Time.

5113.518×
5090.094
23.424×

April 3, 1900

Same Again.

Lt Below

81.4

7 33.3 120.4 44.0

263.0 40.5

303.5 84.5 -2.06

82.7 -2.02

125.1 42.4

260.6 44.7

305.3 87.1 -1.99

Rt Above Mean = -2.10

352.0

33.0 41.0

174.1 39.6

213.7 80.6 -2.18

353.6 -2.18

7 41.9 32.9 39.3

75.2 173.9 41.4

7 37.6 210.3 80.7 -2.17

5 -0.2

Final Mean = -2.10

12 37.4 G.M.Time. Pos. Angle Vern A = 82.6

5 11 35.26 Sprocket wheel A. = -2.5

5 09 00.94 " " B. = -1.5

+23.32

April 3, 1900.

Meas. of Standards near T. Hydrae.
Phot T. W Obs.

8 5 2 -9.0
8 5 9
0 07

Hagen No 24 comp with Hagen No. 12.
L & Above
259.8 < comp star dis Ledgered.
8 10.0 308.4 48.6
78.8 51.1
129.9 99.7 + 1.66

259.0 + 1.66
308.3 49.3
79.6 50.0
129.6 99.3 + 1.67
R & Below mean = + 1.68
348.6
35.9 47.3
168.0 50.0
218.0 97.3 + 1.72

348.7 + 1.70
8 24.4 37.7 49.0
34.4 167.8 50.5
8 17.2 218.3 99.5 + 1.67
5 = 0. 2
13 17.0 Gr. M. Time.
5° 113.0 53
~~5090.0 94~~
~~+ 23.459~~

April 3, 1900

Hagen No 30, comp with Hagen No 14.

R & Below.

354.3 < comp star dis.

8 27.0 31.5 L. E. agreed.

175.6 $37.2^{\times}$

215.3 $39.7^{\times}$

$76.9^{\times}$ $+2.29^{\times}$

355.5 $+2.29^{\times}$

32.0 $36.5^{\times}$

174.6 $40.2^{\times}$

214.8 $76.7^{\times}$ $+2.29^{\times}$

L & Above Mean = $+2.20^{\times}$

260.8

303.3 $42.5^{\times}$

83.6 $39.9^{\times}$

123.5 $82.4^{\times}$ $+2.12^{\times}$

262.7 $+2.11^{\times}$

8 36.0 303.4 $40.7^{\times}$

$63.0^{\times}$ 82.5 $42.4^{\times}$

8 $31.5^{\times}$ 124.9 $83.1^{\times}$ $+2.10^{\times}$

5 0.2

13 31.3 Gr. M. Time

$5113.563^{\times}$

April 3, 1900

Hagen No. 29 comp with Hagen No. 1K

L & Above

~~96.3~~ 822 ← comp star dis:

8 45.0 127.7 45.5

260.5 45.1 Ledgered

305.6 90.6 + 1.90

clouds

80.0 + 1.93

126.9 46.9

262.4 41.4

303.8 88.3 + 1.96

R & Below mean = 1.98

351.6

34.6 43.0

173.6 43.3

216.9 86.3 + 2.01

351.3

~~8~~

903.0 → 33.7 42.4 + 2.02

171.1 43.6

108.0 214.7 86.0 + 2.02

8 54.0

5 – 0.2

1 8 03.8 Gr. M Time –

5113.579

April 3, 1900

Hagen No 27 comp with Hagen No 14.
R & Below
352.4 L comp Star dis.

9 08.0 | 32.6 | 40.2 | Ledgered
172.1 | 41.2
213.3 | 81.4 + 2.15

353.7 | + 2.13
33.7 | 40.0
171.6 | 43.0
214.6 | 83.0 + 2.11

L & above | Mean = + 2.10
262.5
304.2 | 41.7
82.3 | 42.1
124.4 | 83.8 + 2.08

262.5 | + 2.08
9 14.0 | 304.0 | 41.5
22.0 | 82.7 | 42.0
9 11.0
5 -.0.2 | 124.7 | 83.5 + 2.09

14 10.8 Gr. M. Time.
5713.591

April 3, 1900

Hagen No. 25 comp with Hagen No 14

L & Above

259.4

9 20.2 306.9 47.5 Ledgered

79.5 47.8

127.3 95.3 +1.77

259.4 +1.82

303.0 43.6

80.0 48.3

128.3 91.9 +1.86

R & Below mean = +1.88

170.8

218.1 47.3

351.2 41.3

32.5 88.6 +1.95

171.6 +1.94

9 20.6 215.9 44.3

5.8 350.2 44.8

9 22.9 350 89.1 +1.94

5 − 0.2

14 22.7 Gr. M. time.

5718.599

April 3, 1900
Selection of standards near
R Geminorum.

7 00 +22.9 7 01 .+23.1 W Ob.
10 48 10 44
3 48 3 43

7 12 22.2
10 52
3 40 ~~37~~
1 ~~Mag 10.6 Ma~~11.3 ~
~~3~~

No		Mag
37		11.3
38		11.3
44		11.6
28	"	10.7
27		10.7
36		11.3

U Geminorum
Phot T. W Ob.
7 59 +22.0

April 3, 1900

U Geminorum

17 √9 +22.0
14 44-
13 46

L & Above

337.2 < comp star dis
10 57.40 49.9 72.7 Ledgered.
164.0 58.6+
222.6 131.3+ + 0.95±

+ 0.90±
343.3
55-20 44.2 60.9+
158.9 70.3+
229.2 131.2± + 0.95±

Right Below mean = + 0.88+

245.4
57 00 320.3 74.9
71.2 65.0±
136.7 139.9+ + 0.78±

252.1 + 0.82
58 45 313.8 61.7
24 45 65.0 73.6
10 56 11 138.6 135.3+ + 0.87
5 + 0 - 12
10 55 59 Gr. M. Time.
5113.664+

April 3, 1900

Same Again

R + Below

# 244.4

11 00 30 322.1 77.7″

71.8 63.0″

134.8 140.7″ + 0.76″

258.3 + 0.78″

02 15 316.8 66.5″

67.9 72.7″

140.6 139.2″ + 0.79″

L + above Mean = + 0.87″

160.4

04 00 228.2 67.8″

341.5 62.9″

44.4 130.7″ + 0.96″

163.1 + 0.96″

11 06 00 225.6 62.5″

12 45 337.4 68.5″

11 03 11″ 45.9 131.0″ + 0.96″

5 – 12 Final Mean = + 0.88″

16 02 59 Gr. M. Time. Pos Angle Ver a = 173.0

5113.669 Sprocket Wheel a = –4.3

" " B = –3.5

C = –2.8

April 3. 1900

B + C, 11 A2.	B. 394.
11 24 12.1	11 24 0.0
25 12.1	25 0.0

Dis. of Jupiter sat II Compared with nearest sat on same western side = sat I.

Phot. R

W Obsr. – Colson Recorder

11 46 05×	11	45	33		227.0		
~~2~~ − 8×			52	82.7×	309.7	1	
11 45 57×		46	18	81.4	227.8		+0.3
			37	82.0×	309.2		
47 19×			55		227.8		
− 8		47	09	81.1	308.9		
47 11×			26	80.9	229.0	2	+0.3
			46	81.0	309.9		
48 20×		48	00		227.0		
− 8			12	83.0×	310.0		+0.3
48 12×			26	79.8×	228.2	3	
			40	81.4×	308.0		
			52		230.0		
49 20×		49	13	78.0×	308.0	4	+0.4
− 7			30	80.0×	229.0		
49 13×			44	79.0	309.0		
50 09×		50	16		230.0		
27×			34	77.0×	307.0		
50×			57	74.2×	232.8		
51 06×		51	13	72.4×	305.2 ~~[illegible]~~		
23×			30	73.2×	232.8		
				69.0			

moved images slightly with respect to Jupiter.

April 3, 1900.

11 51 37×	51 44	~~69~~.0	301.0
57×	52 04	67.9	233.1
52 10×	17	62.9	296.0
28×	35	53.2	240.8
39×	46	59.0	299.8
52×	59	57.6	242.2
53 04×	53 11	51.6	293.8
16	23	47.6	246.2
31×	38	46.8	293.0
47×	54	46.9	24$\overset{6}{3}$.1
54 03×	54 09 Limit of visibility	45.0	291.1
	55 16		241.0
55 34×	25	54.0×	295.0
06×	44	54.1×	242.9
55 28×	59	54.0×	297.0

Jupiter low – Seeing poor – Jupiter I very faint even at full brightness. Setting made slowly, & also with as much care as possible. Settings during dissappearance of sat. especially diffigult and somewhat uncertain.

Last two settings should probably be rejected.

Postels.

Apr. 3. 1900.

B + C. 11 A 2.
12 14 2.5
15 2.5

B 394.
12 14 0.0
15 0.0

B.O.C. at 12 14 = 2.5 secs. fast.
12 09 = 3.5 " "
12 04 = 4.5 " "
11 59 = 5.5 " "
11 54 = 6.5 " "
11 49 = 7.5 " "
11 44 = 8.5 " "

April 4, 1900 Wednesday

Bond 394 B. &. C.

6 48 0.0 6 48 06.7

6 49 00 6 49 06.6

Phot T. T. Monocerotis W.Ob.

9.5 cap used

6 17 +7.2

8 27

2 10

R & Above

195.6 Ledgered

7 27.0 237.2 36.6+ Plotted

#17.6 32.3+

49.9 68.9+ 2.54+

198.2 -2.52+

230.1 31.9+

#13.6 37.9+

51.5 69.8+ -2.51+

L & Below mean -2.46+

104.5

#143.6 39.1+

286.9 33.5+

320.4 72.6+ -2.42+.

107.8 -2.40+

7 36.6 #141.7 33.9+

60.6+ 283.3 39.6+

7 31.8+ 322.9 73.5+ -2.39+

5 -0.1

12 31.7+ Gr M Time.

5114.022+

0090.094

+2[illegible]+

April 4, 1900

Same Again

Lt Below

104.0
7 41.0 143.2 39.2*
286.9 33.4*
320.3 72.6* − 2.42*

106.9 −2.41*
140.4 33.5*
283.4 39.9*
323.3 73.4* −2.40*

Rt Above mean = −2.50*

14.4
150.0 35.6*
198.3 32.1*
230.4 67.7* −2.59*

16.3 −2.58*
7 50.0 49.4 33.1*
91.0 196.2 35.0*
7 45.5* 231.2 68.1* −2.57*
5 −0.1
12 45.4 Gr. M. Time
5114.531*
5090.094
+24.437*

April 4, 1900

Same Again III

R & Above
124.6
7 55.3 50.5 35.9
198.0 32.3
230.3 68.2 - 2.57

-2.58
17.1
49.4 32.3
197.5 34.8
232.3 67.1 - 2.60

L & Below mean = -2.49
284.7
324.3 39.6
105.4 36.0
141.4 75.6 - 2.33

285.7
8 04.0 320.1 36.4 -2.40
11.9.3 105.1 37.1
9 59.6 142.2 71.5 -2.46
5 - -0.1 Final mean = -2.48
12 59.5 Gr. M. Time Pos. Angle Ver. a = 262.3
5114.542 Sprocket Wheel a -2.5
5090.094 " " B -1.5
+24.448

April 4, 1900

Selection of Standards near W Leonis

10 46 +14.6 W Obr.
9 36
1 08

no. 24 mag 10.9 ✓
~~" 27 " 11.2~~
" 23 " 10.8 ✓
~~" 25 " 10.9~~ ✓
~~" 26 " 11.1~~
" 20 " 10.6 ✓
" 21 " 10.7 ✓
" 27 " 11.2 ✓

Phot T. U Cephei W Obr.

Bond 394	Bliss & Cr.
9 ~~09~~ 11 0.0	9 ~~09~~ 11 06.2
9 12 0.0	9 ″12 06.1

0 50 +81.1
1 ~~0~~ 20
~~11~~ 30
9

over for Meas.

April 4 1900

U Cephei

I

L & Above

350.0 Grandis

9 21 39 76.6 86.6×

176.5 74.1×

250.6 160.7× −0.37×

350.9 −0.34×

22 56 69.6 78.7×

171.1 84.5×

235.6 163.2× −0.32×

R & B Mean = −0.25×

256.1

24 54 349.5 93.4×

86.9 75.1×

162.0 168.5× −0.22×

263.5 −0.16×

26 24 344.8 81.3×

15 53 74.8 93.7×

9 23 58× 168.5 175.0× −0.09×

5 −06

14 23 52× Gr M Time.

2114.5999× 2114.5999×

2112.1264 2114.4558

+2.4735× (Hartwig's) +0.1441 Uniform.

~~April~~ April 4, 1900

II

R & Below

260.3
9 27 45 347.5 87.2
81.6 83.7
165.3 170.9 - 0.17

260.8 - 0.10
29 00 345.1 84.3
76.3 93.6
169.9 177.9 - 0.04

L & above Mean = -0.10
168.5
31 15 257.2 88.7
350.9 83.2
74.1 171.9 - 0.15

172.0 - 0.10
32 52 256.1 84.1
120 52 347.6 93.3
9 30 13 80.9 177.4 - 0.05
5 -06
14 30 07 Gr. M. Time -
5114.6043 5114.6048
5112.1264 5114.4558
+2.4779 (Hartwig) +0.1485 (Uniform)

April 4, 1900

L & Above III

167.0
9 34 30 257.6 90.6×
349.1 87.4×
76.5 178.0× − 0.04×

167.3 × +0.01×
36 13 256.9 89.6
345.1 93.5×
78.6 183.1×
× 176.9 + 006×

R & Below mean = +0.12×

78.6
38 56 170.2 91.6×
253.3 98.7×
352.0 190.3×
169.7× + 0.20×

72.2
9 ~~10~~ 40 33 172.~~8~~5 100.3× +0.22×
15 30 12 2~~6~~57.5 92.1×
9 37 33× 349.6 192.4× + 0.24×
5 −06 167.6×
14 37 27 Gr. Mt. time.
5114.6093× 5114.6093×
5112.1264 5114.4508
+2.4829× (Hartwig's) +0.1535× (Unif.)

April 4, 1900

IV

R o Below

76.1

9 42 32 169.9 93.8

200.3 102.0

352.3 195.8 + 0.30

164.2

73.0 0.32

43 50 173.6 100.6

255.4 97.5

352.9 198.1 + 0.34

161.9

L o Above mean = + 0.28

345.4

45 40 80.4 95.0

164.6 98.9

263.5 193.9 + 0.26

166.1

344.2 + 0.23

9 47 47 82.6 98.4

19 49 168.4 92.5

9 44 57 260.9 190.9 + 0.20

5 -06 169.1

14 44 51 Gr. M. Time

5114.6146 5114.6145

5112.1261 5114.4558

+2.4881 (Hartwig's) +0.1587 (Uniform)

April 4, 1900

L & Above V

	347.3		
9 50 00	80.4	93.1 ×	
	161.5	101.9 ×	
	263.4	195.0 ×	+ 0.29 ×
		165.0 ×	
	342.1		+0.32 ×
52 40	83.7	101.6 ×	
	165.6	96.7 ×	
	262.3	198.3 ×	+ 0.35 ×
		161.7 ×	

R & Below

	253.~~4~~6		mean = +0.46 ×
56 25	354.6	101.0 ×	
	68.8	198.7 ×	
	177.5	209.7 ×	+0.57 ×
		150.3 ×	
	247.9		+0.60 ×
9 58 09	358.2	110.3 ×	
17 14	72.0	102.2 ×	
9 54 18	174.2	212.5 ×	+0.62 ×
5 -06		147.5 ×	

14 54 12 Gr M Time.

5114.6209 ×	5114.6209 ×
5114.6118	5714.4558
+0.0091 × (Hartwig)	+0.1651 × (Uniform)

April 4, 1900

Bond 394			Blass & Cr.		
10	10	0.0	10	10	05.9
10	11	0.0	10	11	05.9

Selection of Standards near

V Cancri W Obs.

8 15 + 17.9
11 25
3 10

8 18 17.5
11 33
3 15

No.	
24	10.2
26	10.5
34	11.3 rather faint
27	10.5
29	10.8

U Geminorum.

7 59 + 22 1
11 52
3 53

over for meas.

April 4, 1900

U Geminorum

L & above

182.9 (comp star dis.

10 50 23 246.8 63.9 × Ledgered

362.6 69.2 ×

71.8 133.1 × + 0.91 ×

182.2 + 0.94 ×

52 08 244.8 62.6 ×

358.3 67.8 ×

66.1 130.4 × + 0.97 ×

R & Below mean = + 0.91 ×

88.2

54 07 159.1 70.9 ×

272.1 62.1 ×

334.2 133.0 × + 0.92 ×

93.0 + 0.88 ×

10 56 17 155.3 62.3 ×

13 05 266.6 74.1 ×

10 53 16 338.7 136.4 × + 0.85 ×

5 -06

15 53 10 × Gr. M time

5114.662 ×

April 4, 1900

Same Again

R & Below

87.7

10 58 00 159.0 71.3

272.2 62.8

335.0 134.1 + 0.89

92.0 + 0.88

11 00 00 156.3 64.3

267.3 70.7

338.0 135.0 + 0.88

~~Mean~~ = + 0.91.

L & above

358.3

11 02 20 66.8 68.5

182.2 63.2

245.4 131.7 + 0.94

361.4 + 0.94

11 04 20 63.8 62.4

244 40 179.3 69.1

11 01 10 248.4 131.5 + 0.95 Final Mean = + 0.91

5 -06 Pos Angle Ver a = 173.6.

16 01 04 G. M. Time Sprocket Wheel a = -4.3

5114.667 " " B = -3.5

" " C = -2.8

Apr. 4. 1900.

B + C. 11A2			B. 394.		
11	23	5.7	11	23	0.0
	24	5.6		24	0.0

April 5, 1900 (Thursday)

Bond 394 | Bliss & Creight 1182
6 56 0.0 | 6 56 09.5
6 57 0.0 | 6 57 09.5

Phot T. T Monocerotis W. Ob.

9.5 cap used.
6 17 +7.2
8 37
2 20

R & above

16.3
7 38.2 49.7 33.4
200.7 27.3
228.0 60.7 −2.84

Ledgered
Plotted.

18.7 −2.86
46.7 28.0
198.9 31.8
230.7 59.8 −2.87

L & Below

mean = −2.78

287.0
321.2 34.2
108.9 30.3
139.2 64.5 −2.69

288.8 −2.71
7 38.2 319.4 30.6
7 34.2 107.4 32.8
5-0.2 140.2 63.4 −2.73

1234.0 Gr. M. Time.
6715.524
5090.096

April 5, 1900

Same Again

Lt Below

287.0

7 41.2 319.7 32.7

109.1 29.7

138.8 62.4 −2.77

288.8 −2.74

318.2 29.4

105.~~4~~3 34.6

139.9 64.0 −2.71

Rt Above Mean = −2.83

200.0

230.0 30.0

19.1 28.3

47.4 58.3 −2.93

199.6

7 49.6 228.3 28.7 2.92

7 45.4 17.2 30.2

5 −0.2 47.4 58.9 −2.90

12 45.2 Gr M Time

5115.531

5090.094

+25.437

April 5, 1900

Same Again

R & Above.
199.4
784.2 228.9 29.5
18.8 29.0
47.8 58.5 -2.92

199.6 -2.90
229.6 30.0
17.7 29.7
47.4 59.7 -2.87

L & Below. Mean = -2.81
108.1
139.9 31.8
288.3 30.8
319.1 62.6 -2.76

108.7 -2.72
802.2 139.2 30.5
287.6 34.0
758.2 ~~320.2~~ 64.5 -2.69
50.2 321.6 Final Mean = -2.81
1238.0 Gr. M. time.
5110.540 Poz. Angle = 262.3
5090.094 Sprocket wheel A = -2.5
+20.446 " " B = -1.5

Moonlight a little troublesome.

April 5, 1900.

T. Cassiopeiae

Phot W. 0 19 . 55.9 W Obs.

9 23

9. 04

~~L above~~

R & Below

151.5 < comp. star dis. Ledgered. ~~Plotted.~~

8 27.6 212.0 60.5

339.1 64.5

33.6 125.0 + 1.08

146.5 + 1.06

212.8 66.3

331.6 60.3

31.9 126.6 + 105

L above mean = + 1.05

59.9

122.0 62.1

236.0 68.3

304.3 130.4 + 097

59.2 + 104

8 36.3 121.3 62.1

63.9 240.9 61.4

8 32.0 302.3 123.5 + 1.12

5 -0.2

13 31.8 Gr M Time

5115.564

April 5, 1900

Same Again.

L & above
60.8
838.9 123.4 62.6 ×
240.3 66.4 ×
304.7 127.0 × + 1.04 ×

58.6 + 1.06 ×
124.2 65.6 ×
240.5 60.2 ×
300.7 125.8 × + 1.07 ×

R & Below Mean = + 1.10 ×
332.5
80.9 58.4 ×
149.4 62.5 ×
211.9 120.9 × + 1.17 ×

328.7 + 1.14 ×
846.4 31.8 63.1 ×
85.3 151.4 60.9 ×
8 42.6 212.3 124.0 × + 1.11 ×
5 -0.2
13 42.4 Gr. M. Time.
5716.571 d

Final mean = + 1.08

April 5, 1900

T. Persei

2 08 . +57.2

10 23

8 . 15

Rather slow.

~~Y Bootis.~~

14

T. Virginis

Selection of standard star

W.G.P.

12 8-5.5 12 8 -5.5

11 22 10 38

0 46 1 30

10 14 10 30

No 24 Mag 10.9

" 22 " 10.7

" 18 " 10.2

" 19 " 10.2

(" 20 " 10.3)

" 23 " 10.8

Comp. Star for Phot. T. = Hagen No. 10 =
BD -5° 3464 (9.5)

April 3, 1900

Posted

S Virginis
Selection of Standard Stars

13 25 −6.7 W6b.
11 48
1 37
10 23

13 23 −5.5
12 00
1 23
10 37

No 19 mag 10.9
11 00 " 18 " 10.6
" 20 " 11.2
" 22 " 11.9
" 24 " 12.1

Comp. Star for Phot. T. = Hagen No. 6 = BD −6° 3840 (9.1)

April 6, 1900 (Friday)

Bond 394 B. & C. 1182
7 03 00.0 7 03 14.2
7 04 00.0 7 04 14.2

Phot T, T. Monocerotis W Obs.

9.5 cap used
6 17 +7.2
8 37

R + above 2 20

Ledgered.
Plotted.

7 26.2 18.0
47.9 29.9*
200.9 25.9*
226.8 55.8* -3.02*

19.7 -2.99*
47.1 27.4*
199.0 29.9*
228.9 57.3* -2.96*

Lt Below Mean = -2.9~~2~~1*

286.8
320.1 33.3*
109.9 27.8*
137.7 61.1* -2.82*

289.5 -2.83*
7 33.6 317.5 28.0*
59.8 107.3 32.7*
7 29.9 140.0 60.7* -2.84*
5 -0.2

12 29.7 - G.M. time
07.6.521
5090.094
+26.427

April 6, 1900

Same Again.

Lt Elbow

287.4
7 37.0 320.0 32.6
109.0 29.6
138.6 62.2 −2.78

288.9 −2.82
317.4 28.5
108.0 31.5
139.5 60.0 −2.86

Rt Above Mean = −2.90

199.8
228.4 28.6
18.7 28.5
47.2 57.1 −2.97

199.2 −2.97
7 48.0 228.0 28.8
7 42.5 18.3 28.4
5 −02 46.7 57.2 −2.97

12 42.3 G. M. Time
5116.529
5090.094
+26.435

April 6, 1900

Same Again.

R & Above

199.6

7 54.6 229.6 ~~29.4~~ 30.0

19.4 28.2

47.6 58.2 -2.93

199.9 -2.92

229.6 29.7

17.6 29.3

46.9 59.0 -2.90

L & Below Mean = -2.87

106.1

139.0 32.9

288.9 28.7

317.6 61.6 -2.80

108.2

8 03.3 138.9 30.9 ~~2.82~~

11 7.9 288.0 29.9

7 59.0 317.9 60.8 -2.83

5 -0.2

12 58.8 Gr. M. Time -

5116.541

5090.094

+26.447

Final Mean = -2.90

Pos. Angle Ver. a = 262.3

Sprocket Wheel a = -2.5

" " B = -1.5

April 6, 1900

Phot T. T. Persei. W Obs.

2 . 8 5.7.2

9 28

7 20

L. & a.

274.3 ~~comp. star obs~~ Ledgered

828.7 329.2 various 54.9* Plotted

95.8 56.2*

152.0 111.1* -1.39*

-1.37*

275.4 55.9*

331.3 57.1*

95.2 113.0* -1.35*

152.4

R. & B. Mean = -1.40

186.1 55.4*

241.5 54.7*

[illegible]6.5 110.1* -142*

61.2

-1.43*

186.8

838.3 240.2 53.4*

67.0 [illegible]5.7 55.5*

833.5* 61.2 108.9* -1.44*

5-0.3

1323.2* Gr M Time.

5116.565*

April 6, 1900

Same Again.

R & Below
180.5
8 41.0   240.1   54.6*
~~#~~ 0.2   55.6*
60.8   110.2*   −1.41*

186.0   −1.42*
240.3   54.3*
5.3   55.7*
61.0   110.0*   −1.42*

L & Above   Mean = −1.40*
94.8
152.1   57.3*
276.0   54.6*
330.6   111.9*   −1.37*

95.6   −1.38*
8 50.0   151.2   55.6*
91.0   275.6   53.4*
8 40.5*   331.0   111.0*   −1.39*
5 −0.3   Final Mean = −1.40*
13 40.2* Gr Mn time   Pos Angle Ver a = 151.8
5116.573*   Sprocket Wheel B = −5.5
C = −4.5

April 6, 1900

Selection of comp. star to be used in measuring standards with Phot T.

R Geminorum.

WObs.

6 59 +22.6
10 45
3 46

7 12 +22.2
10 55
3 43

Comp. star to be used will be Hagen No 6. DM magn = 9.0

V Cancri.

8 18 +17.5
11 08
2 50

Comp. star for Phot T. = Hagen No. 8 DM magn = 9.1

W Leonis.

~~10 06 +16.4~~
10 38 +15.0

11 38
1 00

Comp. star for Phot T. = Hagen No 9 DM. magn = 9.0

Posted.

April 6, 1900

U Virginis.

12 34 +7.6
12 08
0 26
11 34

comp star for Phot T.
Hagen No 9 DM magn (9.4)

15 46 +15.6
12 16
3 30
8 .30

11 05

April 7, 1900 (Saturday)

Bond 394 B & C - 1182
7 01 0.0 7 01 19.6
7 02 0.0 7 02 19.6

~~T. Cassiopeiae~~ W 6 h.

Phot T. T. Monocerotis
9.5 cap used.
6 17 * 7.2
8 33
R & Above 2 16

17.4
7 23.0 48.4 31.0*
200.2 25.8*
226.0 56.8* − 298*

Ledgered.
Plotted.

20.2
46.5 26.3* −2.97*
199.2 31.0*
230.2 57.3* −2.96*

L & Below Mean = 2.86*

287.5
319.7 32.2*
108.6 30.5*
139.1 62.7* − 2.76*
289.3 −2.76*
7 31.4 318.2 28.9*
5 44 107.2 33.5*
7 27.2
5 −0.3 70. 62.4* −2.77*
12 269* 140.7 Gmt.
5 117.519*
5 117.107
+0.412*

April 7, 1900

Same Again

Rt Below
286.5
7 34.3 319.9 33.4
109.5 29.4
138.9 62.8 − 2.76

288.8 −2.78
318.0 29.2
107.6 32.5
140.4 61.7 − 2.80

Rt Above Mean = −2.85
200.6
229.1 28.5
18.5 29.3
47.8 57.8 −2.94

199.4 −2.92
7 41.8 228.9 29.5
76.1 18.0 29.8
7 38.0 47.8 59.3 −2.89
5 −0.3

12 37.7 Gr. M. Time -

5117.526
5117.107
+0.419

April 7, 1900

Same Again III

R & Above
199.3
7 485 230.0 30.7
18.1 29.8
47.9 60.5 -2.84

198.8 -2.82
229.3 30.5
17.4 30.9
48.3 61.4 -2.81
L & Below mean = 2.81

106.9
139.9 33.0
288.6 29.4
318.0 62.4 -2.77

108.7 ~~-2.78~~
-2.80
7 58.3 138.8 30.1
106.8 286.9 30.7 -2.83
7 53.4 317.6 60.8 ~~-2.79~~
5 -0.3

12 53.1 Gr. M. Time
5117.537
5117.107
+0.430

April 7, 1900

Same Again IV

L ⊕ Below

109.2
8 02.8 140.4 31.2
289.0 30.1
319.1 61.3 −281

108.0 −270
140.0 32.0
287.6 32.9
320.5 64.9 −268

R ⊕ Above Mean = −281

17.7
47.2 29.5
198.9 30.0
228.9 59.5 −288

18.2 −288
8 14.0 47.2 29.0
16.8 198.9 30.2
8 08.4 229.7 59.2 −289
5 −0.2 Final Weighted Mean = 2.83
13 08.2 Gr M Time. Position Angle Vernier a. = 82.5
5117.547 Sprocket Wheel a = −2.5
5117.107 B = − −1.5
+0.440

April 7, 1900.

In first two groups troubled by clouds, in last two sky clear.

First two groups 2/3 weight.
Last two groups whole weight.

Y Bootis.
14 9 +20.0
9 49
4 20
abandoned for 7 40

Phot T. R Ursae Minoris W Obs.
16 34 +72.9
10 00
4 34
7 26

Y Bootis Resumed
Phot T. 9.5 cap used W Obs.
16 9 +20.0
10 02
3 47
8 13

see next page for meas.

April 7, 1900

Phot k & above Y Boötis
178.5 ∠ var dis. comp star =
9 00.0 249.5 71.0
356.8 71.9
68.7 142.9 − 0.72 Ledgered.

180.0 − 0.72
247.9 67.9
355.6 75.4
71.0 143.3 − 0.71
clouds.
L & Below mean = − 0.64
86.4 clouds.
160.6 74.2
265.7 74.7
340.4 148.9 − 0.60

85.2 − 0.56
9 07.2 162.0 76.8
9 3.6 266.4 76.4
5 − 0.3 342.8. 153.2 − 0.51
14 3.3 Gr M Time
5117.580

April 7, 1900

Same Again.

Lt Below

85.6

9 13.00 163.2 77.6

265.7 76.7

342.4 154.3 − 0.49

84.4 Stars faint. − 0.47

17 06 162.7 78.3

264.4 78.2

342.6 clouds 56.5 — 0.45

Rt Above mean = 0.54

354.3

22 07 70.4 76.1

177.0 72.8

249.8 148.9 − 0.60

356.2 − 0.62

9 29.00 70.8 74.6

81 13 179.2 72.3

9 20 18 251.5 146.9 − 0.64

5 − 18

14 20 00 Gr. M. time. Pos Angle vernier a = 187.4

5147.597 Sprocket wheel a = −6.5

" " B = −5.5

First two groups taken through clouds

April 7, 1900

Same Again

III

R & Above

355.8
9 38.24 71.4 76.6
176.2 74.6
250.8 151.2 - 0.54

355.2 -0.52
42 20 70.9 75.7
170.3 78.1
253.4 153.8 - 0.50
L & Below Mean = 0.49
264.0
46 30 345.3 81.1
84.5 77.5
162.0 158.6 - 041

264.2 -0.44
9 48.00 341.6 77.4
175 14 84.4 77.8
9 43 48 162.2 155.2 - 0.47
5 - 18
14 03 30 G. M. Time.
5117.614+

April 7. 1900

Lt Below
264.4
9 48 00 348.5 79.1
86.2 75.2
161.4 154.3 − 0.49

IV

265.3 0.49
50 40 341.4 76.1
84.5 78.1
162.6 154.2 − 0.49

Rt above
Mean = 0.56
177.1
54 49 251.6 74.5
356.8 73.7
70.5 148.2 − 0.61

178.7 −0.62
9 57 42 249.8 71.1
21.1 11 355.0 75.7
9 52 48 70.7 146.8 − 0.064
5 − 18
Final ~~weighted~~ mean = −0.56
14 52 30 G.M.T. Last two groups taken in clearer sky.
5h 17. 620

April 7, 1900

Selection of standards near U Virginis
12 48 + 4.0 W6 bz.
11 36
1 12
10 48

Hagen No 17 mag 10.9
18 11.2

Next star to be used follows variable 21 secs. and is 15' South of it Magn 10.8
No. 19 mag 11.3
Last star follows no 17 by 50 secs and is about 2' N. of it
Mag = 10.8

R Serpentis
15 45 + 15.6
12 00
3 45
8 15

15 40 15.9
12 06
3 34
8 26

Posted.

April 7, 1900

Selection of Standards for
R Serpentis. W 6bz.

Hagen No. 21 magn. 10.9
22 11.1
20 10.7
15 10.0
11 05 ~~17 10.2~~
19 10.6

No 19 can perhaps be substituted for 17 which is perhaps a little bright.

Apr. 7. 1900.

B. + C. 1182.			B 394.		
13	14	17.5	13	14	0.0
	15	17.4		15	0.0

Dis. Jup. sat I   Phot. R.

W. Obsr.

Colson Recorder

Compared with nothern most and brighter of two sats on same western side = Sat. IV.

Seeing fairly good but a little blurry.

13 26 18	13	~~26~~ 25	55		132.2	
−0 15		26	11	82.8 x	215.0	1
13 26 03 x			28	83.1 x	130.9	
			40	83.0 x	214.0	(+0.3) x
27 28 x		27	04		129.0	
−0 15			24	86.9 x	215.9	
27 13 x			36	86.1 x	129.4	2
			47	86.5 x	216.0	(+0.1) x
28 26 x		28	07		128.9	
−0 14 x			19	86.2 x	215.1	
28 12 x			33	86.0 x	128.2	3
			44	86.1 x	214.2	(+0.1) x
29 25 x		29	04		129.2	
−0 14			12	85.9 + 85.6 x	215.1	4 (+0.2) x
29 11 x			32	85.8 +	129.4	

Apr. 7. 1900

~~52~~ 215.0

Moved images slightly with respect to Jupiter and each other.

30 36 ×	30	13		130.0	
−0 14		27	86.1 ×	216.1	
30 22 ×		44	85.1 ×	130.9	×
	31	01	85.6 ×	216.0	(+0.2)×
31 38 ×		12		130.1	
−0 14		30	86.7 ×	216.8	
31 24 ×		45	84.1 ×	130.2	6
	32	05	85.4 ×	214.3	(+0.2)×
32 42 ×		17		128.5	
−0 13		29	86.5 ×	215.0	
32 29 ×		52	84.0 ×	131.0	7
	33	08	85.2 ×	215.0	(+0.2)×
33 43 ×		28		132.0	
−0 13		36	83.1 ×	215.1	
33 30 ×		49	82.2 ×	132.0	8
		59	82.6 ×	214.2	(+0.3)×
34 33 ×	34	13		131.5	
−0 13		25	85.4 ×	216.9	
34 20 ×		41	84.6 ×	131.9	9
		52	85.0 ×	216.5	(+0.2)×
	35	03		131.5	
35 17 ×		10	81.5 ×	213.0	(+0.3)×
			82.3 ×		
−0 13		20	81.9 ×	131.4	10
35 04 ×		~~35~~	~~[illegible]~~	~~113.7~~	213.7 and.
35 33		46	76.9 ×	134.9	+0.5 ×
35 41 ×		54	73.8 ×	211.8	+0.6 ×
49 ×	36	02	73.3 ×	138.0	+0.6

Apr. 7. 1900.

13 35 58		11	73.3	211.3	+0.6
36 06		19	71.0	138.0	0.7
15		28	72.0	209.0	0.7
26		39	69.8	137.0	0.8
36		49	66.6	206.8	0.9
44		57	65.3	140.2	1.0
5~~4~~5	3~~6~~7	07	62.5	205.1 —	1.1
37 0~~2~~3		15	60.0	143.0	1.2
1~~2~~3		25	56.9	203.0	1.3
2~~2~~3		35	53.9	146.1	1.5 —
3~~0~~1		43	52.6	200.0	1.5
~~39~~ 40		52	45.3	147.4	1.9
~~50~~ 51	- 38	03	37.5	192.7	2.3
38 02		14	32.7	155.2	2.7
1~~4~~5		27	24.0	187.9	3.4
2~~3~~4		36	19.0	163.9	3.9
3~~2~~3		45		182.9	

Not seen later Limit of visibility

40 17	39	06		161.0	
−0 −12		49	24.0	185.0	
40 05		~~16~~	24.5		
			2		
	40	31	24.5	159.5	+3.3
	~~41~~	~~02~~		~~188.3~~	
	41	43		184.0	

Apr. 7. 1900.

B. + C. 1182.			B. 394.		
14	5	6.5	14	5	0.0
	6	6.3		6	0.0

at 13 14.0 chron Error = -17.5 secs
18.6 " " = -16.5
23.2 " " = -15.5
27.8 " " = -14.5
32.4 " " = -13.5
37.0 " " = -12.5
41.6 " " = -11.5
46.0 " " = -10.5

April 8, 1900 (Sunday)

Bond 394 B&C 1182
6 48 0.0 6 48 09.5
6 49 0.0 6 49 09.5
6 50 0.0 6 50 09.6

T Monocerotis
Phot 7. 9.5 cap used W Chr.
6 17 + 7.2
8 28
2 11

R & Above
198.2
7 14.0 229.8 31.6 Ledgered
18.6 28.6 Plotted.
47.2 60.2 - 2.85
200.1 - 2.90
227.3 27.2
17.9 30.4
48.3 57.6 - 2.95

L & Below mean = - 2.77
106.6
141.6 35.0
287.3 31.0
318.3 66.0 - 2.64
108.3 - 264
7 22.0 140.0 31.7
36.0 285.3 34.7
7 18.0 320.0 66.4 - 2.63
5 - 0.2
12 17.8 G. M. Time.
5 7 18.512
5 7 17.107
+ 1.405

Posted.

April 8, 1900

Same Again

L & Below

II.

106.4
7 24.3 142.0 35.6×
288.0 30.9×
318.9 66.5× -2.62×

107.4 -2.63×
139.5 32.1×
285.8 33.9×
319.7 66.0× -2.64×

R & Above

Mean = -2.74×

17.2
49.2 32.0×
199.0 29.9×
228.9 61.9× -2.79×

17.6 -2.84×
7 31.6 47.9 30.3×
55.9 199.7 28.9×
7 28.0× 228.6 59.2× -2.89×
5 -0.2

Final Mean = -2.76

12 27.8× Gr. M. Time
5118.519×
5117.107
+1.412×

Position Angle Xer a = 82 3
Sprocket Wheel a = -2.5
B = -1.5

April 7, 1900 (Monday)

Bond 394 BOC 1182
7 09 00.0 7 09 08.0
7 10 00.0 7 10 07.9

Phot. T. T. Monocrotic W Obz.

95 caps used

7 00.0 Cloudy 6 17 +7.2
8 47
2 30

Rt ~~B~~Above
196.5
7 35.6 231.7 35.2
17.7 30.6
48.3 65.8 −2.65
199.3
228.9 29.6 −2.72
16.8 32.4
49.2 Clouds. 62.0 −2.79

Ledgered
Plotted.

Lt Below
106.3
141.0 34.7
287.6 32.3
319.9 67.0 −2.61
107.2
140.3 33.1 −2.60
286.8 34.4
321.2 67.5 −2.59

Mean = −2.66

7 48.4
8 40.0
7 42.0
5 −0.1
12 41.9 Gr. M. Time
5119.529
5117.107
+2.422

April 9, 1900

Same Again

L⊙ Below
106.2
7 52.6 142.3 36.1
288.3 30.8
319.1 66.9 −2.61

106.3
1X. Clouds 3. Reject these settings
2. 3.
3. 6. −2
R⊙ Above. Mean = 5
1.
.
19.
2.
1.
.
19.
2.

Position Angle = 26 35

Sprocket Wheel A = –

Sprocket Wheel B = –

Stopped by clouds

R Ursae Minoris
16 34 +72 9
9 37
6 57
5 03

Clouds.

April 9, 1900

8 30 Cloudy

9 00 Cloudy R Ursae Min.

16 34 +72.9
10 44
5 50

Left & Below 6 10

~~35 6.1~~ ∠ comp stars dis,

~~9 33.6~~ ~~69.4~~ ~~75.3~~

176.6 clouds.

9 36.7 249.5 72.9
306.2 74.1
70.3 147.0 + 0.63
175.7
252.2 Clouds 76.5 + 0.64
356.6 70.4
67.0 146.9 + 0.64

Right & Above mean = + 0.59

86.8
165.0 78.2
265.8 75.4
341.2 153.6 + 0.50
85.9

~~9 49.0~~ 160.8 74.9 + 0.54
85.7 265.3 74.2
9 42.8 339.5 149.1 + 0.59
5 -0.1

14 ~~42~~7 G.M.T. Reject above groups as images were faint in clouds and varying. Sky much clearer in following groups.

5119.613

April 9, 1900

Same Again

R ⊙ Above

Ledgered
Plotted.

86.6

9 51.8 159.7 — 73.1ˣ

261.4 — 81.7ˣ — I

343.1 — 154.8ˣ + 0.48ˣ

83.5 — +0.46ˣ

163.5 — 80.0ˣ

264.6 — 77.6ˣ

342.2 — 157.6ˣ + 0.63ˣ

Lt Below

Mean = +0.52ˣ

356.4

71.1 — 74.7ˣ

174.8 — 75.9ˣ

250.7 — 150.6ˣ + 0.56ˣ

355.2 — +0.58ˣ

10 00.6 70.6 — 75.4ˣ

11 2.4 176.3 — 73.5ˣ

9 56.2ˣ 249.8 — 148.9ˣ + 0.60ˣ

5 − 0.1

14 56.1ˣ Gr. M. Time

5119.622ˣ

April 9, 1900

Same Again

~~IIII~~

II

L Below

355.0

10 67.6 72.5 77.5

177.8 72.8

250.6 150.3 + 0.57

+ 0.058

357.1

69.6 72.5

175.2 76.3

251.5 148.8 + 0.60

R Above Mean = +0.50

264.0

343.1 79.1

84.1 80.0

164.1 159.1 + 0.40

263.8 +0.42

10 13.2 342.3 78.5

20.4 84.8 78.5

10 10.2 163.3 157.0 +0.44

5 -0.1

15 10.1 Gr M Time. Pos. Angle Ver a = 313.1

10 32 Sprocket Wheel. B = -5.5

" " C = -4.7

5119.632

April 9, 1900

Same Again

~~III~~

III

Rt Above

264.5

10 12.6 339.5 ~~72~~70.0*

83.1 81.2*

164.3 156.2* + 0.45*

262.7 +0.40

344.0 81.3*

85.1 79.7*

164.8 161.0* +0.36

Lt Below mean = +0.49*

177.1

201.3 74.2*

355.1 Clouds 76.7*

71.8 150.9* +0.56*

177.5 +0.58*

10 27.0 201.5 74.0*

39.6 355.8 74.8*

10 18.8 70.6 148.8* +0.60*

5-01

15 18.7 Gr. Mn Time

5119.638

Final Mean = +0.50*

Posted

April 9/1900
Selection of a comp star for
Phot T. for R Serpentis.

15 40 10.9
12 08
3 32
8 28

Comp star to be used with Phot T. =
11 00 1 Hagen No. 9. DM. 9.5 mag

April, 10, 1900 (Tuesday)

a & Dent   B & C. 1182
7 01 00.0   7 01 128
7 02 00   7 02 128

Phot T   T Monocerotis   W Olz
9.5 cap used
6 , 7 +7.2
R & Above   8   57
15.6   2   60

7 33.4   50.5   34.9   Plotted
199.3   29.1   Ledgered.
228.4   64.0 — 2.71

17.2   -2.68
48.6   31.4
196.4   34.8
231.5   66.2   -2.64
L & Below   Mean = -2.59

283.5
321.9   38.4
107.8   32.5
140.3   70.9   -2.48

287.1   -2.00
7 41.0   320.0   32.9
7 37.2   105.4   36.5
5 - 0.2   141.9   69.4   -2.53
12 37.0   Gr. M. Time.
5120.526
5117.107
+3.419

April 10, 1900

Same Again.

II

L & Below
284.6
7 43.4 320.6 36.0
107.1 33.5
140.6 69.5 -2.52

286.9 -2.56
319.3 32.4
106.4 34.6
141.0 67.0 -2.61

R & Above mean = -2.60
197.9
231.2 33.3
16.9 33.1
50.0 66.4 -2.63

197.2 -2.64
7 52.4 230.4 33.2
95.8 17.3 32.2
7 47.9 49.5 65.4 -2.66
5 -0.2
Final mean = -2.60
12 47.7 Gr. M. time. Position Angle for a = 82.6
5 020.533 Sprocket Wheel a = -2.5
5 117.107 " " B = -1.5
+3.426

April, 10, 1900

Phot W   T Cassiopeiae   W Obs.

0 19 +55.9
9 34
9 15

Below + R.

321.7 ∠ comp. star dis   Ledgered
8 16.0   25.8   64.1*   Plotted.
142.0   63.3*
205.3   127.4*   +1.03*

323.4   +1.10*
23.3   59.9*
143.1   61.8*
204.9   121.7*   +1.16*

Above + Left   Mean = +1.11*
230.8
294.9   64.1*
54.3   59.5*
113.8   123.6*   +1.11*

233.9   +1.12*
8 24.0   293.4   59.5*
8 20.0*   52.7   63.1*
5 -0.2   11.5.8   122.6*   +1.14*
13 19.8* Gr. M. Time.
5020.556
~~5117.107~~
~~+3.449*~~

April 10, 1900

Same Again.

L & Above

232.3

8 27.8 295.4 63.1*

54.4 60.2*

114.6 123.3* +1.12*

235.0 +1.11*

295.2 60.2*

52.5 64.1*

116.6 124.3* +1.10*

R & Below mean = +1.12*

141.6

205.1 63.5*

325.9 57.7*

23.6 121.2* + 1.17*

143.1 +1.13*

8 34.4 204.5 61.4*

62.2* 322.5 63.3*

8 31.1* 25.8 124.7* + 1.09*

5 -0.2

13 30.9* Gr. M. Time. Final Mean = +1.12

5120.563

~~5117.107~~

~~3.456~~

April 10, 1900

Phot T. R Camelopardi. W Ob.

14 40 + 84.1
10 17
4 23

R & Above

96.0 L comp of Leodis 37

g 58.8 157.7 55.7*
276.5 52.5*
329.0 108.2* + 1.46* Plotted.
Ledgered.

95.7 + 1.45*
150.9 55.2*
277.5 53.9*
331.4 109.1* + 1.44*

L & Below ~~mean~~ = + 1.50*

8.0
59.2 51.2*
186.3 54.6*
240.9 105.8* + 1.52*

7.8 1.55*
9 10.6 57.9 50.1*
~~69.4~~ 187.4 52.9*
129.4 240.3 103.0* + 1.58*
9 4.7
5 - 0.2
14 4.5 Gr M Time
5120.586*

April 10, 1900

Same Again

L⊙ Below

7.0
9 12.3 59.4 52.4
186.5 55.3
241.8 107.7 + 1.47

7.3 +1.54
58.6 51.3
188.7 50.6
239.3 101.9 +1.61
R⊙ Above Mean = +1.47
276.1
330.0 53.9
95.7 56.8
152.5 110.7 +1.40

274.4 +1.40
9 22.7 331.4 57.0
35.0 97.1 53.~~0~~7
9 17.5 150.~~1~~8 110.~~0~~7 +1.40
5 -0.2 Final Mean = +1.48
14 17.3 Gr. M. Time Position Angle Vernier A = 117.7
5020.595 . Sprocket Wheel. B = -1.5
" " C = -0.8

April 10, 1900.

U Geminorum

Phot T. 7 59 +22.0 W. Obs.

11 24

3 25

Above & Left

201.2 comp star dis / Ledgered.

1.0 14.4 227.9 26.7x

19.9 27.1x

47.0 53.8x + 3.11x

+ 3.15x

201.0

226.2 25.2x

19.6 26.6x

46.2 51.8x + 3.19x

Right & Below. mean = + 2.92x

107.6

140.0 32.4x

288.6 30.3x

318.9 62.7x + 2.76x

+ 2.70x

106.0

10 24.0 138.8 32.8x

38.4x 287.0 33.0x

10 19.2 220.0 65.8x + 2.65x

5 -02

15 19.0x Gr M Time

5120.638x

April 10, 1900

Same Again

II

R & Below

107.5

10 26.7 139.7 32.2$^+$

287.2 32.7$^+$

319.9 64.9$^+$ +2.68$^+$

107.3 +2.70$^+$

139.4 32.1$^+$

288.5 31.8$^+$

320.3 63.9$^+$ +2.72$^+$

L & Above Mean = +2.84$^+$

19.6

48.6 29.0$^+$

199.5 28.3$^+$

227.8 57.3$^+$ + 2.96$^+$

19.3 + 2.98$^+$

10 35.6 48.2 28.9$^+$

62.3 200.1 27.7$^+$

10 31.2 227.8 56.6$^+$ + 2.99$^+$

5 -1 2

15 31.0$^+$ Gr. M. time

5020.647$^+$

Posted

April 10, 1900

Same Again

L + Above

19.5

10 42.4 46.0 26.5ˣ

199.2 28.3ˣ

227.5 54.8ˣ +3.07ˣ

+3.02ˣ

19.0

48.3 29.3ˣ

209.0 27.7ˣ

227.7 57.0ˣ +2.98ˣ

R + Below

mean = +2.87ˣ

287.3

317.6 30.3ˣ

107.8 32.0ˣ

139.8 62.3ˣ +2.77ˣ

+2.72ˣ

286.9

10 49.2 320.0 33.1ˣ

11.6 107.6 32.2ˣ

10 45.8 139.8 65.3ˣ +2.67ˣ

5 - 0.2

15 45.6 Gr. M. time,

5020.657ˣ

Final Mean = +2.88ˣ

Position Angle Vernier a = 353.7

Sprocket Wheel a = -4.4

" β = -3.5

" c = -2.8

11 00

April 11, 1900 (Wednesday)

Bond 394 B&C 1182
7 06 00.0 7 06 21.2
7 07 00.0 7 07 21.2
Phot T. T. Monocerotis W Ob.
9. Cap used. 6 17 +7.2
8 52
2 35

R & Above
197.2 Ledgered
7 24.4 232.8 35.6 Plotted
~~2~~17.9 31.4
49.3 67.0 -2.61
±
197.4 -2.62
230.1 32.7
~~2~~16.0 34.0
~~49.7~~ 50.0 66.7 -2.62
L & Below mean = -2.52
103.4
143.7 40.3
286.9 33.2
320.1 73.5 -2.39

107.0 -2.42
7 33.6 141.2 34.2
58.0 284.8 37.1
7 29.0 321.9 71.3 -2.46
5 - 0.4
12 28.6 Gr. M. Time.
5121.520
5117.107
+4.413

April 11, 1900

Same Again

L⊙ Below

104.5
7 36.6 143.8 39.3
280.1 35.0
321.1 74.3 -2.37

106.1 -2.41
141.7 35.6
284.8 36.2
321.0 71.8 -2.45

R⊙ Above Mean = -2.50

16.2
49.8 33.6
197.9 33.1
231.0 66.7 -2.62

16.9 -2.60
7 44.4 50.5 33.6
81.0 197.2 34.1
7 40.5 231.3 67.7 -2.59
5 -0.4 Final Mean = -2.51
12 40.1 Gr. M. Time Position Angle Ver a = 82.5
5 121.528 Sprocket Wheel a. = -2.5
5 117.107 B. = -1.5
+4.421

April 11, 1900

Phot T. Y Bootis W Obs.
9.5 cap used. 14 9 +20.0
9 33
4 36
R + Above 7 24
356.2 ∠ var dis.
8 15 33 71.5 75.3× Ledgered
179.1 69.3×
248.4 144.6× −0.68×

358.2 −0.66×
18 50 69.6 71.4×
177.5 74.7×
252.2 146.1× −0.65×
Lt Below Mean = −0.54×
263.0
21 50 344.5 81.5×
83.8 78.2×
162.0 159.7× −0.39×

264.5 −0.42×
8 25 32 342.9 78.4×
81 45 84.9 77.8×
8 20 26× 162.7 156.2× −0.45×
5 − 21
13 20 05× Gr. M. Time.
5121.556×

April 11, 1900

Same Again.

L & Below

264.7
8h 32.25 341.9 77.2*
84.8 79.9*
164.7 157.1* −0.44*

262.9 −0.44*
36 00 343.2 80.3*
85.9 76.8*
162.7 157.1* −0.44*

R & Above Mean = −0.57*

177.4
41 20 250.1 72.7*
357.2 70.4*
67.6 143.1* −0.71*

178.5 −0.70*
8 45 10 247.4 68.9*
155 00 355.8 76.0*
8 38 45* 71.8 144.9* −0.68*
5 −21 Final Mean = −0.56*
13 38 24* G.M.T. Comp Star used in above measurements
5121.568* of Y Bootis = DM + 20° 2968 (8.4)
Same comp Star used on Apr 7, 1900
Position Angle Ver a = 187.4
Sprocket Wheel a = −6.5
B = −0.5

April 11, 1900

Phot T. U Geminorum W Obs.
7 59 . + 22.0
10 43
2 . 44

L & above
205.7 <comp. Star dis. L edge red
9 25.6 223.2 17.5
22.5 20.8
43.3 38.3 + 386

203.3 + 382
222.9 19.6
23.3 19.9
43.2 39.5 + 379

R & Below mean = + 3.67
114.0
136.2 22.2
292.0 23.0
315.0 45.2 + 3.50

111.7 + 3.52
9 43.0 133.8 22.1
68.6 291.7 22.5
9 34.3 314.2 44.6 + 3.53
5 - .4 Position Angle Ver a = 352.6
14 33.9 Gr. M. Time Sprocket Wheel a = -4.4
5121.607 " " B = -3.5
" " C = -2.8

April 11, 1900

Sky hazy; storm coming; moonlight bright and variable faint, observations difficult, impossible to take more than one group. ~~Atmos~~ Variable extremely faint at equilization under the circumstances, extreme care however exercised in settings, result thought to be pretty good.

Phot T. X Herculis. W Obs.

16 00 47.6
11 35
4 20
7 35

R above
8.5 Gr. Ardis. Ledgered
Plotted

10 18.8 57.2 48.7*
193.2 41.2*
234.4 89.9* - 1.92*
11.9
540
1890 42.1* -1.90*
258.7 49.7*
Lt Below 91.8* -1.87*
277.7 Mean = -1.83*
328.4 50.7*
100.5 46.3*
146.8 97.0* - 1.73*
280.6
10 28.6 327.0 46.4* - 1.76*
47.4 98.8 48.5*
10 23.7 147.3 94.9* - 1.79*
5 -04
15 23.3 Gr. M. Time
5121.641*

5121.641*
5068.000
+53.641*

April 11, 1900

Same Again

L & Below

279.0
10 31.5 327.2 48.2*
100.6 47.0*
147.6 95.2* −1.78*

−1.80*

279.9
326.9 47.0*
100.0 46.5*
146.5 93.5* −1.825*

R & Above

Mean = −1.85*

190.8
237.5 46.7*
12.1 42.9*
55.0 89.6* −1.92*

191.6 −1.90*
10 42.0 236.5 44.9*
7.5 9.4 46.7*
10 36.8* 56.1 91.6* −1.87*
5 −0.4

Final Mean = −1.84*

15 36.4* 11 0.0 Position Angle Ver A. 174.2
5121.650*
5058.000 Sprocket Wheel A 7.5
53.650* " " B 64
~~5121~~
~~5078~~

Apr. 11. 1900.

B. & C. 1182.			B. 394.		
11	37	21.0	11	37	0.0
	38	21.0		38	0.0

Re. Jup. III Compared with nearest of three sats. on following side = sat. I

Phot. R.

W. Obsr.
Olson Recorder

Reduced.
Checked.

				Sum
12.01 20	12	01	36	
29			45	$3\overset{2}{3}4.3$
			~~04~~	
52		02	08	19.0
02 06			22	$3\overset{2}{3}4.0$
17			33	18.0
28			44	327.0
39			55	21.2
55		03	11	317.8
			~~8~~	
03 32			47	23.0
52		04	07	317.0
04 03			18	24.5
16			31	315.3
32			47	25.8

Apr. 11. 1900

12 04 40+ 12	05	00		313.2
04 54+		09		29.0
05 49+		24		313.3
−15		37	75.7	29.0
05 34+	06	00	74.0−	315.8
		15	74.8+	29.8
06 54+		33		308.2
−15		45	81.8+	30.0
06 39+	07	01	84.5	309.5
		16	83.2+	34.0
		~~31~~		3
08 10+		45		312.0
14	08	04	82.4+	34.4
07 56+		18	84.9+	310.0
		33	83.6+	34.9
09 02+		42		307.2
−14+		53	89.8+	37.0
08 48+	09	08	90.8+	306.0
		23	90.3+	36.8
09 57+		33		306.0
−14		47	91.0−	37.0
09 43+	10	04	92.9	305.1
		24	92.0	38.0
11 12+		50		305.0
−14+	11	02	92.7+	37.7
10 58+		20	95.3	304.5
		38	94.0+	39.8
		51		303.9
	12	05		39.0

1

Apr 11, 1900

			95.1+		
12 12 09+		14	95.0	304.0	
14		26	95.0+	39.0	
12 11 55+		36		303.8	
12 56+		49	94.4+	38.2	
−13	13	03	95.0+	304.0	2
12 43+		18	94.7+	39.0	
13 40		26		303.0	
−13		35	97.8+	40.8	
13 27+		46	94.9+	304.1	3
		54	96.4+	39.0	
14 16+	14	01		302.0	
−13+		11	98.5+	40.5	
14 03+		19	96.2+	302.8	4
		32	97.4+	39.0	
15 00+		43		304.0	
−13		53	96.2+	40.2	
14 47+	15	05	96.8+	302.4	5
		18	96.5+	39.2	
		48		302.8	
16 16+	16	09	99.0+	41.8	
−13		22	96.6+	302.5	6
16 03+		43	97.8+	39.1	
		51		303.0	
17 19+	17	10	95.2+	38.2	
13		29	97.9+	302.8	7
17 06+		46	96.6+	40.7	
18 29+	18	10		301.9	
12		21	98.4+	40.3	
18 17+		32	95.0	303.0	8
		54	96.7+	38.0	

Apr. 11. 1900

12 19 20+	19	03		301.4	
− 12+		14	99.2+	40.6	
12 19 08		26	97.6+	301.5	9
		37	98.4+	39.1	
		46		303.0	
20 09+		55	98.1+	41.1	
−12	~~20~~	~~08~~		~~308.8~~	10
19 57+	20	22	95.9	302.8	
		34	97.0+	38.7	
21 51+		57		303.9	
−12	21	11	97.1+	41.0	
21 39+	22	33	97.5+	302.5	11
		44	97.3+	40.0	
23 19+		58		303.5	
−11	23	14	95.0+	38.5	
23 08+		25	98.0+	303.0	12
		40	96.5+	41.0	
		57		301.7	
24 59+	24	15	96.8+	38.5	
−11	25	47	96.0+	302.5	13
24 48+		58	96.4+	38.5	

Limit of Visibility

27 41+	27	05		324.2
−10		38	54.9+	19.1
27 31		53	52.6+	325.5
	28	09	53.8+	18.1

Posted

Apr. 11. 1900.

Jupiter somewhat low and boiling at times. Sky hazy. Moon rather bright. ~~Jupiter~~ Sat. reappeared not far from the limb of Jupiter. Settings made with care and necessarily with some slowness.

B. & C. 1182.			B. 394.		
12	48	6.0	12	48	0.0
	49	6.0		49	0.0

Correction of B. & C. 1182.

From	11 58 39	to	12	3	23	–	16	secs.
"	12 3 23	"	12	8	7		15	"
"	12 8 7	"	12	12	51		14	"
"	12 12 51	"	12	17	35		13	"
"	12 17 35	"	12	22	19		12	"
"	12 22 19	"	12	27	3		11	"
"	12 27 3	"	12	31	47		10	"
"	12 31 47	"	12	36	31		9	"
"	12 36 31	"	12	41	15		8	"

~~computed~~ computed by W. copied by L. C.

Apr. 13. 1900. (Friday).

Expts. with Phot. X, Lr. obs.

Ground glass one way.

40.8
40.6
10 29 41.0
40.7
40.0
40.3

Ground glass other way;

39.9
39.1
39.5
10 50. 39.6
38.9
39.3

Images rather more hazy than in other Photometer.

Object glass dewed.

Apr. 14, 1900 (Saturday)

Bond 394 Bliss & Creighton

7 00 0.0 7 00 17.8 1182

7 01 0.0 7 01 17.8

Phot Ti T. Monocerotis W Obs.

9.5 cap used 6 17 +7.2

9 10

R & Above 2 53 Reject

290.8

7 33.0 329.3 38.5

113.6 32.6

146.2 71.1 -2.47

292.7

327.2 34.5 -244

110.5 38.5

149.0 73.0 -2.41

L & Below Mean = -2.35

203.2

240.5 37.3

19.5 39.5

59.0 76.8 -2.29

201.8

7 41.4 238.8 37.0 -2.26

19.1 41.4

60.5 78.5 -224

April 14, 1900

Same Again

Lt Below

200.7

7 43.7 239.2 38.5 Reject

19.5 39.6

59.1 78.1 −2.25

202.0 −2.26

239.7 37.7

20.0 40.0

40.0 ~~77.7~~ −2.26

R & Above Mean = −2.36

111.9

146.6 34.7

292.0 35.4

327.4 70.1 −2.30

112.7 −2.46

7 51.6 147.8 35.1

95.3 293.0 39.9

7 47.6 330.9 ~~70.7~~ −2.48

5 −0.3 73.0

12 47.3' Gr M Time

5124.

5117.107

+7.4

Troubled by clouds in first two groups.
Settings somewhat uncertain

April 14, 1900

Same Again.

I

Ledgered
Plotted.

Rt Above

1102
8 01.6 147.9 37.7×
290.6 38.0×
328.6 75.7× · − 2.32×

111.1 − 2.36×
147.8 36.7×
291.6 36.6×
328.2 73.3× − 2.40×

Lt Below. mean = −2.31×

19.6
59.5 39.9×
201.0 37.8×
238.8 77.7× − 2.26×

19.7 − 2.26×
8 09.2 59.4 39.7×
108 200.5 37.8×
8 5.4× 238.3 77.5× − 2.27×
5 −0.3
13 5.1 G. M. Time
5124.545
5117.107
+ 7.438

April 14, 1900

II

Lt Below
19.3
8 12.0 60.~~4~~8 41.5✓
200.8 37.7✓
238.5 79.2✓ − 2.22✓

20.3 −2.25✓
59.3 39.0✓
200.6 38.2✓
238.8 77.2✓ −2.28✓

Rt Above Mean = −2.32✓
~~2~~111.6
~~2~~147.6 36.0✓
~~2~~290.3 38.2✓
328.5 74.2✓ −2.37✓

~~2~~112.0 −2.38✓
8 20.0 ~~2~~148.1 36.1✓
~~2~~291.2 37.3✓
8 16.0✓ ~~2~~328.5 73.4✓ −2.40✓
5 −0.3 Final Mean = −2.32
13 15.7✓ Gr. M. Time Pos. angle Ver a. = 82.2
5124.553 Sprocket Wheel a = −25
5117.107 B = −15
+7.446✓

April 14, 1900.

U. Cephei Phot T.
0 50 +81.1 W. Obs

1018

- clouds 9 28
10 24 ~~stars gone~~ Bond 236 used on
L & above U cephei
93.0 ∠ var dis.
10 24 56 168.6 75.6
268.8 79.8
348.6 155.4 −0.47
clouds stars gone
88.6 −0.46
27 45 171.0 82.4
270.9 74.6
345.5 157.0 −0.44
R & Below Mean = −0.37
357.0
32 43 82.3 85.3
174.6 88.2
262.8 173.5 −0.12

356.6 −0.16
34 43 82.0 85.4
12 0 07 178.7 83.5
10 30 02 262.2 clouds 168.9 −0.21
~~−12~~ 14
~~10 30 00~~ 29 58 ~~Sidereal Time. Uncorr~~
~~−49 Error of Frodsh 1377~~
~~10 29 09 Corr. Sid. Time.~~

8h 42m 46s E. M. T.
5
13 42 46 G. M. T.

April 14, 1900

II

R & Below

	357.8		
10 36 24	81.3	83.5	
	174.1	91.4	
	265.5	174.9	−0.09
	354.2		−0.09
38 18	84.1	89.9	
	176.7	85.2	
	261.9 Clouds	175.1	−0.09
	L & Above		
	266.9		mean = −0.10
41 14	351.4	84.5	
	85.7	90.9	
	176.6	175.4	−0.09
	265.5		−0.10
43 35	354.1	88.6	
1 59 31	87.0	85.4	
10 39 52	172.4	174.0	−0.11

−~~62~~

~~10 39 50~~ ~~Sid. Time Uncorr~~ 4 52 34 E.M.T.

~~−49~~ 5

~~10 38 59~~ " " Corr. 13 52 34 Gr. M.T.

April 14, 1900

III

	L & Above		
	263.5		
10 45 20	357.9	88.4*	
	85.8 clouds	87.2*	
	173.0	175.6*	−0.08*
	259.7		0.00*
47 06	350.7	94.0*	
	85.7 clouds	90.1*	
	175.8	184.1*	
	R & Below	175.9*	+ 0.08*
	173.2		Mean = + 0.11
49 27	265.2	92.0*	
	350.2	97.0*	
	87.2	189.0*	+ 0.17*
		171.0*	
	172.3		+ 0.22*
37 15	269.0	96.7*	
193 08	351.9 clouds	97.0*	
10 48 17*	88.9	193.7*	+ 0.26*
		166.3	

4 ~~.02~~

~~10 48 13* Sid Time Mean~~

~~- 49~~

~~10 47 26 Sid Time corr.~~

9 0 58* E.M.T.

5

14 0 58* G.M.T.

April 14, 1900

IV

R & Below

172.5
10 53 30 264.2 91.7
350.6 97.4
88.0 Clouds 189.1 + 0.17
170.9 + 0.22

172.6
55 00 267.5 94.9
350.2 99.7
89.9 194.6 + 0.28
165.4

L & Above

Mean = + 0.24

823
58 43 176.8 94.5
260.1 Clouds 97.7
357.8 192.2 + 0.23
167.8

80.4 + 0.27
11 01 00 179.6 99.2
228 13 259.3 97.0
10 57 03 356.3 196.2 + 0.31
~~-04~~ 163.8
~~10 57 59~~ ~~Sid. Time. Uncorr~~
~~-49~~
~~10 56 10~~ ~~" " Corr.~~
9 9 42 E.M.T.
5
14 9 42 G.M.T.

April 14, 1900

V

L & Above

82.7 clouds

1. 11 03 24 178.7 stars gone 96.0

208.3 101.7

360.0 197.7 +0.34

162.3

+0.38

79.3

06 32 181.6 102.3

258.7 99.5

358.2 201.8 +0.42

R & Below 158.2 Mean = +0.52

340.8

09 40 94.6 108.8

167.5 106.2

273.7 215.0 +0.67

145.0

+0.66

345.0

11 43 92.6 107.6

31 19 165.7 clouds 106.2

11 7 50 271.9 stars about gone 213.8 +0.63

~~-02~~ 146.2

~~11 7 48~~ ~~Sid. Time~~ uncorr

~~-49~~ Pa. Angle: Ver a = 7.7

~~11 06 59~~ ~~.. .. corr~~ Sprocket Wheel a = -2.5

14 2027 G. M. T. " " B = -1.5

Observations taken through more or less clouds, stars dim much of the time and sometimes entirely disappearing. Waited for gaps.

April 14 1900

comp of chron

Bond 394			Bond 236		
9	34	0.0	10	21	25.0
9	35	0.0	10	22	25.1
9	36	0.0	10	23	25.2
9	37	0.0	10	24	25.3

Frodsh 1$\overset{3}{9}$27			Bond 236		
11	26	01.00	11	25	57.5
11	27	01.0	11	26	57.5
11	28	01.0	11	27	57.5

Frodsham 1327 is 0^{m} 48^{s}.6 fast.

Phot T. 𝒮 Bootis. W. Obs.

$$\begin{array}{rr} 14\ 09 & +20.0 \\ 11\ 33 & \\ \hline 2\ 36 & \\ 9\ 24 & \\ \hline \end{array}$$

9.5 cap used

see next page for measurements

april 14 1900

γ Bootis.

Ledgered.

Plotted.

	R & A.		
	274.0 (var. dis.		
9 57 20	346.4	72.4×	
	946	70.0×	
	166.6	142.4×	−0.73×
	274.3		−0.72×
10 00 00	346.0	71.7×	
	946	72.2×	
	166.8	143.9×	−0.70×
	L & Below		mean = −0.56×
10 11 02	181.4		
{03 45	261.0	79.6×	
18 20}	360. Clouds stars gone.	79.3×	
	79.5	158.9×	−0.40×
			−0.39×
	180.9		
10 19 30	259.1	78.2×	
267 52	358.4	81.6×	
10 06 58	80.0	159.8×	−0.38×
5 - 18			
15 06 40 Gr M Time.			
5124.630×			

April 14, 1900.

Same Again

~~Lo Below~~
~~182.6~~
~~10 22 26 259.5 76.9~~
~~0.3 80.8~~
~~81.1 157.7 -0.43~~
~~-0.42~~
~~180.0~~
~~24 23 259.6 79.6~~
~~359.7 79.5~~
~~79.2 159.1 -0.40~~
~~Rt Above~~ mean = -

94.2 Clouds.
32 00 16 : Stopped by clouds
2 :
3 : Reject above partial group.

9 : Poz angle Vert 487
1 : Sprocket Wheel a = 6.5
2 : " " B = -8.5
3 #

Phot X Herculis W Obs.
9.5 cap used.
1.6 00 +47.6.
12 25
3 35
8 25

Cloudy

april 14, 1900

Phot T. X Herculis W Obs

Above & Right

291.2 (var. dis.

Plotted

Ledgered

11 00.0 334.2 43.0

109.0 41.6

150.4 84.6 — 2.07

288.3 — 2.06

331.1 42.8

108.2 42.2

150.4 85.0 — 2.05

Below & Left

Mean = 1.98

197.6

242.3 44.7

16.9 44.5

61.4 89.2 — 1.94

197.6 — 1.90

11 05.4 242.0 44.4

5.4 16.1 47.9

11 02.7 64.0 92.3 — 1.85

5 -0.3

16 02.4 Gr. M. Time. Pos angle Ver a = 356.8

5124.668 Sprocket Wheel a = -7.5

5068.000 B = -6.5

56.668

April 15. 1900 (Sunday)

Bond 39.4
6 3 0 0.0

BOC-1'8 2
6 50 29.5

T. Monocerotis

9.5 cap used 6 17 +7.2 Phot. T
9 04 or Obs.
2 47

R & Above
110.0
7 19.4 148.9 38.9+
291.4 35.0+
326.4 73.9+ −2.38+

112.8 −2.40+
147.2 34.4+
290.8 38.6+
329.4 73.0+ −2.41+

L & Below Mean = −2.28+
19.0
60.0 41.0+
199.5 38.5+
238.0 79.5+ −2.21+

19.9 −2.16+
7 27.4 60.6 40.7+
46.8+ 198.0 42.2+
7 23.4 240.2 82.9+ −2.11
5 −0.5
12 22.9+ G. M. Time.
5125.516+
5117.107
+8.409+

Posted.

April 15, 1900

Same Again.

~~Lt~~ Below

18.3
7 30.4 62.7 44.4ˣ
200.1 37.6ˣ
237.7 82.0ˣ −2.14ˣ

19.3ᵐ −2.14ˣ
60.4 41.1ˣ
199.4 40.4ˣ
239.8 81.5ˣ −2.15ˣ

Rt Above

Mean = −2.25

290.3
329.1 38.8ˣ
112.0 36.0ˣ
148.0 74.8ˣ −2.35ˣ

291.0 −2.36ˣ
7 37.8 328.0 37.0ˣ
682ˣ 109.8 37.0ˣ
7 341ˣ 146.8 74.0ˣ −2.38ˣ
5 −00

Final Mean = −2.26ˣ

12 336ˣ Gr. M. Time Position Angle. Ver. A. 82.8
5125.624 Sprocket Wheel α −2.5
5117.107 " β −1.5
+8.417ˣ "

April 16, 1900 Monday)

Bond 394 B.&C 1182
7 03 00 7 03 36.2
7 04 00 7.04 36.3

T Monocerotis

Phot T. 9.5 cap. W. Obs.

6 17 +7.2
9 09
R&Above 2 52

Ledgered
Plotted

110.1
7 19.8 150.1 40.0
291.4 37.5
328.9 77.5 -2.27
110.7
148.7 38.0 -2.26
290.2 39.9
330.1 77.9 -2.26

L&Below mean = -2.21
18.1
62.4 44.3
200.0 39.5
239.5 83.8 -2.08

19.7 -2.16
7 30.0 58.6 38.9
7 49.8 200.3 39.2
7 24.9 239.5 78.1 -2.25
5 - 06
12 24 3 Gr M Time.
5126.517
5717.107
+ 9.410

April 16, 1900

Same again.

L & Below

17.0

7 33.8 62.4 45.4

200.2 39.3

239.5 84.7 -2.06

-2.14

19.2

60.0 40.8

200.8 38.3

239.1 79.1 -2.22

Mean = -2.21

R & Above

290.2

329.6 39.4

112.3 37.4

149.7 76.8 -2.29

-2.28

291.4

7 43.0 329.0 37.6

76.8 110.0 39.8

7 38.4 ~~149.8~~ -2.27

0 -0.6 ~~151.8~~ 77.4 Final Mean = -2.21

12 37.8 Gr. M. Time Position Angle Ver a = 82.3

5126.526 Sprocket Wheel a = -2.5

5117.107 β = -1.0

+9.419

April 16, 1900

Phot T. S Monocerotis W 6 oz

7 in cap used.

6 33 + 0.0

9 49

3 16

Lt above

203.5

8 05.5 238.5 35.0

19.0 40.0

59.0 75.0 − 2.35

Ledgered

Plotted

202.1 − 2.38

239.1 37.0

22.2 35.8

58.0 72.8 − 2.42

R Below

Mean = − 2.50

113.2

148.6 35.6

293.4 31.8

325.2 67.4 − 2.59

1141 − 2.61

8 13.0 1457 31.6

18.5 292.1 348

8 9.2 320.9 66.4 − 2.63

5 − 0.6

13 86 G.M.Time

5126.548

5126.362

+0.186

April 16, 1900

Same Again.

Rt Below
113.2
7 15.0 147.7 34.5+
291.1 34.7+
320.8 69.2+ -2.53+

113.8
147.1 33.3+ -2.54+
291.4 35.3+
326.7 68.6+ -2.55+
Lt Above. Mean = -2.49+
22.0
57.4 35.4+
202.8 35.6+
238.4 71.0+ -2.47+

20.0 -2.43+
8 21.0 58.5 38.5+
26.0 202.2 35.0+
8 18.0 237.2 73.5+ -2.39+
5 -0.6 Final mean = 2.49
317.4 Gr. M. Time Pos. Angle = 170.2
5126.553+ Sprocket Wheel A = -6.2
5126.362+ " " B = -5.5
+0.191+ " " C = -4.7

April 16/1900.

Meas. of Standards near T. Hydrae
Phot T. 8 52 -9.0 W.Obs
10 25
1 33
8 54 -8.6
10 38
1 44

cloudy
8 54 -8.6
10 44
1 50

9 02 -8.1
10 46
1 44

Abandoned: too cloudy.

Phot T. X. Herculis. W.Obs.
9.5 cap used
16 00 +47.6
10 50
5 10
6 50

Posted

April 16/1900

X Herculis.

9 15 Cloudy.

9 50 Too cloudy to do anything farther.

April 19, 1900 (Thursday)

Bond 39.4 — BoC .182
7 08 00.0 — 7 08 20.4
7 09 00 — 7 09 20.5

τ Monocerotis.

Phot T. 9.5 cap used W Obs.

6 17 +7.2

Rt Above
9 27
3 10

110.0
7 31.8 148.9 38.9
290.7 38.0
328.3 76.9 — 2.29

clouds

-2.20

109.9
149.7 39.8 Reject this group.
288.0 42.7
330.7 82.5 — 2.12

Mean = -2.06

Lt Below clouds
15.6
64.0 48.4
197.6 45.2
242.8 93.6 — 1.82.

Clouds

18.8 1.92
7 38.8 60.3 41.5
196.7 44.6 — 2.02
241.6 86.1

Troubled by clouds.

April 19, 1900

Same Again.

I

L0 Below
10.9
7 41.0 64.0 48.1+ Plotted.
198.0 63.0+ Ledgered.
241.0 91.1+ — 1.88+

— 1.96+
18.0
62.5 44.5+
198.4 41.0+
239.4 85.5+ — 2.04+

clouds.

R0 Above means – 20~~4~~3
288.4
331.2 42.8+
110.1 40.3+ — 2.10+
150.4 83.1+

— 2.10+
289.3
748.2 329.6 40.3+
9.2 108.0 clouds 42.6+ — 2.11+
744.6 150.6 82.9+
5-0.3

1244.3 Gr. M. Time.
5 129 531+
5 117 107
+1 ~~3~~ 5.424+

April 19, 1900

Same Again.

R & Above

107.7

8 00.0 151.7 44.0^{+}

288.3 42.5^{+}

330.8 86.5^{+} −2.01

−2.04^{+}

109.7

151.0 41.3^{+}

288.5 43.3^{+}

331.8 84.6^{+} −2.06^{+}

L & Below

Mean = −1.98^{+}

16.6

62.4 46.8^{+}

198.5 43.8^{+}

242.3 90.6^{+} −1.90^{+}

1.615

−1.91^{+}

8 07.4 61.9 45.4^{+}

8 3.7^{+} 198.3 44.5^{+}

5 −0.3 242.8 89.9^{+} −1.92^{+}

13 3.4^{+} Gr. M. Time −

5129.544^{+}

5117.107

+12.437^{+}

April 19, 1900

Same Again

Lt Below

16.0
8 14.0 62.0 46.0$^+$
198.3 44.5$^+$ −1.90$^+$
242.8 90.5$^+$

−1.92$^+$

17.5
62.6 45.1$^+$
197.9 44.3$^+$
242.2 89.4$^+$ −1.93$^+$

Rt Above

mean = −1.96$^+$

287.8
332.4 44.6$^+$
108.5 42.6$^+$
151.1 87.2$^+$ −1.99$^+$

−2.00$^+$

288.0
8 20.0 331.0 43.0$^+$
8 17.0$^+$ 108.3 43.7$^+$
5 −0.3$^+$ 152.0 86.7$^+$ −2.00$^+$

13 16.7$^+$ Gr. M. time

Final mean = −1.99

5129.553$^+$
5117.107
+12.446$^+$

April 19, 1900

U Cephei Corr. to Eph.

Phot T. 0 50 +81.1 m Obs.
10 37
9 47

Bond 236 used on this star.

L & Above
355.6 < comp star dis
10 41 27 87.2 95.6*
177.5 83.4*
260.9 179.0* +0.02*

356.4 ~~+0.02~~*
43 20 83.5 87.1*
169.9 95.3*
265.2 182.4* −0.05
R & Below 177.6* ~~Mean~~ = +0.04
262.2
~~50~~ 45 34 355.8 93.6*
88.4 81.8*
170.2 175.4* +0.09*

269.4 +0.10*
~~45~~ 47 30 355.6 86.2*
17 51 85.0 87.7*
10 44 28 Sid Time 172.7 173.9* +0.11

13 36 57 G.M.T.

April 19, 1900

II

R. Below
263.7
10 49 15 351.9 88.2
86.8 86.7
173.5 174.9 + 0.09

+ 0.18

265.7
5 2 45 352.4 86.7
88.2 78.6
166.8. 165.3 + 0.28

L. above mean — + 0.19

181.2
55 00 266.0 78.8
3548 90.0
848 168.8 + 0.21

+ 0.20

1746
57 15 2619 87.2
214 15 357.2 82.1
10 53 34 79.3 169.3 + 0.20
Sid. Time

13 46 02 Gr. M.T.

April 19, 1900

~~III~~

L & above

180.4

11 00 10 259.5 79.1 +

354.8 88.4 +

83.2 167.5 + 0.24 +

179.1 + 0.31 +

11 01 05 260.1 81.0 +

359.6 78.8 +

78.4 159.8 + +0.38 +

R & Below Mean = +0.42 +

92.6

03 10 167.3 74.7 +

269.4 79.2 +

348.6 153.9 + +0.50 +

92.0 +0.34 +

04 50 168.6 76.6 +

09 15 272.2 72.6 +

11 02 19 344.8 149.2 + +0.59 +

Sid Time.

13 54 45 Gr. M. T.

april 17, 1900

IV

R + Below

92.6
11 06 20 166.3 73.7
271.2 76.7
347.9 150.4 +0.57

92.5 +0.60
08 55 168.5 76.0
274.7 70.7
345.4 clouds 146.7 +0.64

L above

2.2 Mean = +0.58
12 00 75.9 73.7
180.6 76.1
256.7 clouds stars dim 149.8 +0.58

0.3 +0.57
14 ~~4~~5 90.2 stars dim 79.9
42 00 184.2 70.8
11 10 30 25~~4~~50 150.7 +0.56
Sid. Time.

14 2 55 Gr. M.T.

Pos angle = 187.8
Sprocket wheel. −25
−15

April 19, 1900

Comp of Chron

Bond 394	Bond 236
9 24 0.0	11 31 38.8
9 25 0.0	11 32 39.0

Bond 236	Frodsh 1327
11 33 01.0	11 33 31.5
11 34 01.0	11 34 31.5

meas of standards with Phot T. for T. Hydrae. W 6 br.

L above 8 52 -9.0

199.0 < comp 11 42

9 57.8 239.9 star dis 2 50 Ledgered

17.6 40.9* Star Hagen No 29 comp

60.3 42.7* with Hagen No. 14

83.6 +2.09*

199.5

240.0 40.5* +2.06*

17.5 45.3*

62.8 85.8* +2.03*

R & Below

107.3 Mean = +2.00*

151.5 44.2*

285.8 45.3*

331.1 89.5* +1.93*

109.4 +1.95*

10 01.0 150.8 41.4*

1128 285.9 46.4*

9 56.4 332.3 87.8* +1.97*

5 05.3

14 56.1 Gr M Time 57.29622*

April 19, 1900

Star Hagen no. 27 comp. with Hagen no. 1K

Ro below

Ledgerell

109.1 <comp. star dis.

10 04.8 169.8 40.7

288.0 43.2

331.2 83.9 + 2.08

+ 2.08

108.0

151.6 43.6

289.8 39.9

329.7 83.5 + 2.09

Lo above

18.9

Mean = + 2.14

59.5 40.6

201.0 37.8

238.8 78.4 + 2.24

18.0

+ 2.20

10 12.8 60.4 47.4

17.6 199.6 39.0

10 8.8 238.6 81.4 + 2.15

5 - 03

15 8.5 Gr. M. Time.

5129.631

april 19, 1900

Star Hagen No. 25 comp. with Hagen No 14.

	Above		
	14.4 < comp. Star. dis		Ledgerod
10. 17.6	63.7	49.3	
	198.7	42.0	
	240.7	91.3	+ 1.88
	17.2		+ 1.90
	61.3	44.1	
	196.7	45.4	
	242.1	89.5	+ 1.93
	Below		Mean = + 184
	288.5		
	333.6	45.1	
	104.4	50.0	
	154.4	95.1	+ 1.78
	284.9		+ 1.77
10 28,4	335,8	50.9	
46.0	105,9	45.1	
10 23.0	151,~~9~~0	96.0	+ 1.76
5 - 0.3			
15 22.7 Gr. M. Time.			
5129.641			

Posted

april 19, 1900

Selection of ~~comp~~ standard stars for
U Virginis
12 38 +8.5. Dr Obs.
12 58
0 20

No 15 could possibly be used but seems a little bright.

~~No 18 (selected prov.) seems slightly faint~~

no 19 (prov. selected) seems slightly faint.

A star following No 15 by 27 secs and 5.5' S. would be a good comparison star.

No 17 is a good comp. star.

No. 18 is slightly faint but fairly good.

No 19 a little fainter than No. 18.
Star X a little ft but fairly good

Star following No 17 40 sec 1.0' N.
i.e. the same as No 15 27 secs
1125 5.5' S.

Apr. 20, 1900 (Friday)

Bond 394 B & C 1182
7 00 0.0 7 00 17.5

S Monocer
Phot T. T in cap used W Ob.
6 33 +10.0
9 33
3 00

abandoned.

Phot W. T Cassiopeiae W Ob.
0 19 +55.9
9 49
9 30

L & a.

~~49.7~~ 47.1 (comp star dis Ledgered
~~7 58.0~~ ~~1147~~ 115.6 68.5* Plotted.
7 55.8 231.4 61.1*
292.5 129.6* +0.99*
50.9 +1.00*
113.8 62.9*
228.3 65.3*
293.6 128.2* +1.02*
317.0 R & Below mean = +1.011*
24.3 67.1*
140.6 61.5*
202.1 128.6* +1.01*
321.2
8 00.8 23.4 62.2* +1.02*
1458 138.3 65.6*
7 57.9* 203.9 127.8* +1.03*
5 - 0.3 -130.540*
12 57.6* G. M. Time.

April 20, 1900

Same Again

	R&Below		
	316.8		
8 02.2	25.6	68.8	
	139.5	64.7	
	204.2	133.5	+ 0.91
	319.2		+ 0.96
	23.4	64.2	
	138.9	64.5	
	203.4	128.7	+ 1.00
	L&Above		mean = + 0.99
	229.4		
	293.4	64.0	
	49.4	64.3	
	113.7	128.3	+ 1.01
	229.9		+ 1.02
8 10.6	291.6	61.7	
−12 8	49.1	66.2	
8 6.4	115.3	127.9	+ 1.02
5 −0 3			

13 6.1 Gr M Time   Final mean = + 1.00

5130.546

April 20, 1900

Meas of standards with Phot T. for

W Leonis

4

10 46 +14.29

10 42 W Obs.

06

11 56

Left Hagen No 22 comp with No 9

9 40 286.0

334.3 48.3 Ledgeod

107.3 47.5

154.8 95.8 +1.76

285.3 +1.78

333.9 48.6

107.0 45.4

152.4 94.0 +1.81

Right mean = +1.70

194.9

243.4 48.5

~~3~~12.1 53.5

65.6 102.0 +1.61

193.7 +1.62

9 16.6 240.0 52.3

20.6 ~~3~~15.6 48.3

9 10.3 63.9 100.6 +1.64

5 −0.3

14 10.0 Mi Mn Time

5130.590

April 20, 1900.

Hagen No 27 comp with No. 9.

	Lt Below			
	111.5			
9 26.x	149.6	38.1		Ledgered.
	291.4	35.8		
	327.2	73.9	+2.38	
	116.3			+2.38
	147.6	33.3		
	289.7	40.8		
	330.5	74.1	+2.38	
	Rt Above			mean = +2.32
	21.1			
	61.1	40.0		
	200.8	38.8		
	239.6	78.8	+2.23	
				+2.20
	20.7			
9 36.6	157.6	36.9		
	198.3	40.7		
9 31.5	239.0	77.6	+2.27	
5 -0.3				
14 31.2 Gr M Time				
51 30.605				

April 20, 1900

Star Hagen No 23 comp with No. 9.

R o Above
1946
9 39.5 — 244.3 — 49.7+ — Ledgered.
180 — 42.5+
60.5 — 92.2+ — +1.86+

199.0 — +1.91+
240.8 — 41.8+
171 — 46.3+
63.4 — 88.1+ — +1.96+
L o Below — mean = +1.95+
108.3
152.4 — 44.1+
287.7 — 43.1+
330.8 — 87.2+ — +1.99+

108.9 — +1.99+
9 51.5 — 152.0 — 43.1+
91.0 — 288.0 — 44.0+
9 45.5+ — 332.0 — 87.1+ — +1.99+
5 -0 3
14 45.2+ Gr. M. Time.
5130.615+

April 20, 1900

Star Hagen No. 24 comp with No. 9

L&a

2868

10.026 330.6 43.8^{x} Ledgeod

110.0 39.0^{x}

149.0 82.8^{x} $+2.11^{x}$

287.2 $+2.08^{x}$

328.7 41.5^{x}

110.9 43.4^{x}

154.3 84.9^{x} $+2.05^{x}$

R & B. Mean $= 2.00^{x}$

1978

242.8 45.0^{x}

19.6 41.4^{x}

61.0 86.4^{x} $+2.01^{x}$

193.3 $+1.92^{x}$

10.10.2 241.0 47.7^{x}

12.8 17.1 45.6^{x}

10 6.4^{x} 62.7 93.3^{x} $+1.83^{x}$

5 -0.0

15 6.4 G. M. Time

5 1 30.629^{x}

April 20, 1900

Hagen No 20 comp with No 9

Rc Above

15.8

10 18.2 63.8 48.0x Ledgered

194.3 51.9x

246.2 99.9x + 1.66x

14.4 + 1.62x

66.7 52.3

195.7 51.0x

246.7 103.3x + 1.58x

Lc Below mean = + 1.74x

285.3

333.0 47.7x

107.2 44.0x

151.2 91.7x + 1.87x

288.2 + 1.86x

10 27.4 332.8 44.6x

45.6x 106.8 47.5x

10 22.8x 154.3 92.1x + 1.86x

5 - 0.3

15 22.5x G. M. Time

51 30.640x

April 20, 1900

Phot T. R Ursae Minoris

16 34 + 7.29 W Obs.
12 44
3 50

R ☉ above 8 10

179.5 < comp star dis

10 53.0 259.1 79.6*
359.2 79.9*
79.1 159.5* +0.39*

Ledgered
Plotted.

178.4 +0.40*
259.0 80.6*
0.7 77.3*
77.0 157.9* +0.42*

Mean +0.43*

L ☉ Below
94.0
167.95 73.9*
267.5 82.4*
349.9 156.3* +0.45*

90.8 +0.46*
11 03.0 168.8 78.0*
10 58.0 270.6 76.8*
5 -0.3 347.4 154.8* +0.48*
15 57.7* Gr M Time.
5130.665*

Posted.

April 20, 1900

Same Again

L+ Below
93.1
11 05.4 168.6 75.5+
271.3 75.7+
347.0 151.2+ +0.55+

92.1 +0.56+
168.3 76.2+
272.1 74.8+
346.9 151.0+ +0.56+

mean=+0.49+

R+Above
0.9
78.0 77.1+
178.9 81.1+
260.0 158.2+ +0.42+

0.0 +0.42+
11 12.3 79.8 79.8+
177 182.5 77.5
11 8.8 260.0 157.3+ +0.43+
5 -0.3
16 8.5+ Gr. M. Time
5130.67.2+

Ver mean =+0.46+

Pos Angle a = 133.7
Sprocket Wheel B=-5.5
C=-4.7

11 25

april 21, 1900 (Saturday)

7 00 cloudy
8 30 a little clearer

9 00 cloudy

9 30 all cloudy, waited a long time; sky continually cloudy, no chance for any work. W.

9 40 Sky now still more thickly cloudy.
Paint on floor still rather green.

Apr. 24, 1900. (Tuesday)

Bond 39x B&C 1182
7 05 0.0 7 05 14.0
7 06 0.0 7 06 14.0

T. Monocerotis.
9.5 cap used

R & Above 6 17 +7 2
285.2 10 07
7 46.0 332.9 477 3 30 Ledgered.
103.8 45.8 Plotted.
149.6 93.5 −1.82

285.6 −1.84
328.0 42.4
104.0 49.6
153.6 92.0 −1.86
L & Below Mean = −1.79
191.3
240.8 49.5
161 46.9
63.0 96.4 −1.75

8 02.0 194.1 −1.74
~~[illegible]~~ 240.5 46.4
108.0 139 50.9
7 54.0 64.8 97.3 −1.72
5 −0.2
12 53.8
51 34.537
51 17.107
+17.430

April 24, 1900

Same Again

Lt Below

193.5

8 04.6 243.5 50.0

151.5 47.2

62.7 97.2 -1.73

-1.74

195.3

240.6 45.3

13.6 50.4

64.0 95.7 -1.76

Rt above

Mean = 1.78

103.0

152.2 49.2

284.4 45.7

330.1 94.9 -1.79

-1.82

105.7

8 14.0 151.7 46.0

18.6 286.3 46.8

8 9.3 ~~330.2~~ 92.8 -1.84

5 0.2 333.1

1 39.1 Gr. M. Time

5 1345 48

5117.107

+17.44

April 24, 1900

Same Again III

R & above

103.6

8 25.0 153.2 49.6

283.6 46.9

330.5 96.5 -1.74

105.6 -1.80

151.4 45.8

285.0 46.6

331.6 92.4 -1.85

L & Below Mean = -1.74

12.6

63.5 50.9

193.5 48.7

242.2 99.6 -1.67

13.2 -1.67

8 37.0 63.9 50.7

62.0 195.3 48.6

8 31.0 243.9 99.3 -1.67

5 -0.2

Final mean = ± 1.77

13 30.8 Gr. M. Time Pos. Angle = 262.3

5734.563 Sprocket Wheel α = 2.5

5717.107 " " β = -1.5

+17.456

April 24, 1900

Meas of standard with Phot r.
W Leonis. W Obr.

10 45 14.5
11 25
0 40

11 42 00.5
11 42 36.0

1 29
34
0 . 55

11 45 07.8
11 45 34.5

0 55
0 27
0 28

see next page for meas

April 24, 1900

Hagen No 27 Comp with No 9.

~~Left~~

288.5 Ledgered

9 37.6 326.9 38.4×

114.2 29.6×

143.8 68.0× + 2.57×

292.2 + 2.58×

323.4 31.2×

111.2 36.6×

147.9 67.8× + 2.58×

Right mean = 2.47

198.8

236.7 37.9×

22.4 33.2×

55.6 71.1× + 2.47×

200.0 + 2.36×

9 47.6 236.1 36.1×

85.2 17.8 41.9×

9 42.6 59.7 78.0× + 2.25×

5 - 0.2

14 42.4 G. M. Time

57 34.612×

April 24, 1900

Hager No 23 comp with No. 9.

Rt above

14.2
9 55.0 61.3 47.1 Ledgered
195.8 45.5
241.3 92.6 +1.84

12.7 +1.84
61.0 48.3
197.1 44.2
241.3 92.5 +1.95

Left & Below Mean = +1.99

286.1
331.4 45.3
107.9 39.5
147.4 84.8 +2.06

285.2 2.14
10 03.6 328.8 43.6
118.6 109.7 36.0
9 59.3 145.7 79.6 +2.21
5 -0.2
14 59.1 Gr. M. Time
5134.62

April 24, 1900
Hagen No 24 comp with Nt 9.
~~Same Again~~

Left
110.6
10 07.2 151.0 40.4* Ledgered
285.7 44.3*
330.0 84.7* + 2.06*

110.6 + 2.16*
147.0 36.4*
287.5 41.2*
328.7 77.6* + 2.27*

Right. Mean + 2.06*
14.1
60.9 46.8*
199.6 40.3*
239.9 87.1* + 1.99*

16.6 + 1.96*
10 16.8 61.2 44.6*
2 40 196.6 44.6*
10 12.0 241.2 89.2* + 1.94*
5 − 0 2
15 11.8 ½ M. Time
5 134.633

April 24, 1900

Hagen ~~No~~ 20 comp with No. 9.

Right & Above

	195.0			Ledgered.
10 26.0	242.8	47.3		
	13.1	50.0		
	63.1	97.3	+1.72	
	193.4			+1.66
	244.2	50.8		
	11.6	51.0		
	62.6	101.8	+1.61	

Left & Below

mean = 1.68

	106.5			
	152.1	45.6		
	282.0	51.6		
	333.6	97.2	+1.73	
	104.0			+1.70
10 36.0	154.6	50.6		
10 36.0	283.3	49.3		
5 − 0.2	332.6	99.9	+1.66	

15 30.8 Gr M Time.

5 13 46.47

Posted.

April 24, 1900

Hagen No 22 comp with No. 9

Left

284.1
10 45.6 330.6 46.5
103.9 47.2
151.1 93.7 +1.82

Ledgered

+1.79

289.7
331.2 50.5
105.7 45.3
151.0 95.8 +1.76

Right

194.6
243.1 48.5

Mean = +1.78

14.0 49.1
63.1 97.6 +1.72

194.9 +1.76
10 55.0 241.8 46.9
100.6 14.0 48.0
10 50.3 62.0 94.9 +1.79
5 -0.2
15 50.1 Gr. M. Time
5134.660

11 05

april 23, 1900.

Bond 394 B&C. 1182
6 5 30.0 6 5 3 08.5
6 5 40.0 6 5 4 08.5
Phot. T. T Monocerotis W Obs
9^s cap used. 6 17 +7.2
9 57
R & Above 3 40
0.7
7 30.4 46.0 45.3+ Ledgered
180.6 44.6+ Plotted.
225.2 89.9+ -1.92+

369.8 -1.89+
44.7 44.9+
179.1 47.0+
226.1 91.9+ -1.86+
Lt Below Mean = -1.78+
267.5
319.6 57.9+
88.5 47.6+
136.1 99.5+ -1.67+

269.5 -1.66+
7 39.2 316.7 47.2+
7 34.8+ 86.9 52.7+
5 - 0.1 139.6 99.9+ -1.66+
12 34.7+ Gr. M. Time
57136.024+
57117.107
18.917+

April 25, 1900

Same Again

L & Below

266.8

7 42.0 318.0 51.2

89.1 47.3

136.4 98.5 − 1.69

269.6 − 1.72

315.2 45.6

88.0 50.7

138.7 96.3 − 1.75

R & Above

mean = − 1.78

180.1

225.8 45.7

359.7 47.0

46.7 92.7 − 1.84

180.0 − 1.80

7 50.0 224.7 44.7

358.9 47.3

7 46.0 46.2 92.0 − 1.86

5 − 0.1

12 40 9.4 M. time –

5 1 35.53 2

5 1 17.107

7 18.425

April 25, 1900

Same Again III

Rt above

179.6

801.0 224.2 44.6

358.4 47.5

45.9 92.1 -1.86

-1.85

179.6

226.4 46.8

159.6 46.1

45.7 92.9 -1.84

Lt Below mean = 1.74

87.2

138.1 50.9

268.2 50.2

318.4 101.1 - 1.63

87.0 -1.62

813.0 138.6 51.6

807.0 266.7 4 50.7

5-0.1 317.7 102.3 -169

Final mean = -1.77

13 06.9 Gr. M. Time

5135.047

5117.107

+18.440

Pos angle Ver A = 262.3

Sprocket Wheel A = 2.5

B = 1.5

April 25, 1900

Meas. of Standards with Phot T. for
W Leonis W Obs.
1 0 45 + 45
1 0 56
0 11

Hagen No 27 comp with No 9
6.8 Left
8 42.5 40.7 33.9
186.5 33.5 Ledgered
220.0 67.4 + 2.59

6.2 + 2.57
40.9 34.7
185.6 34.0
219.6 68.7 + 2.53
Right Mean = + 2.47
275.5
312.1 36.6
93.6 36.3
129.9 72.9 + 2.41

274.1 + 2.37
8 54.0 311.2 37.1
965 93.2 38.5
8 48.2 131.7 75.6 + 2.33
5 −0.1
13 48.1 Gr. M. Time
5 13 5.575

April 25, 1900

Hagen No 23 comp. with No 9

R & Above

268.3

9 01.0 315.1 46.8 Ledgered

90.4 44.1

1365 90.9 +1.89

269.9 +1.93

314.8 44.9

91.8 43.0

1348 87.9 +1.97

L & Below

182.0 Mean +2.00

223.8 41.8

[illegible]1.1 41.9

40.0 83.7 +2.09

181.6 +2.08

9 12.0 223.0 41.4

9 06.5 359.7 42.9

5 -0.1 42.6 84.3 +2.07

14 06.4 Gr M Time.

5735.587

April 23, 1900

Hagen No 24 compared with No 9.

Left

9 17.0 183.1
223.0 39.9^{+}
359.6 43.5^{+} Ledgerd
43.1 83.4^{+} + 2.10^{+}

185.2 + 2.08^{+}
224.1 38.9^{+}
359.1 46.0^{+}
45.1 84.9^{+} + 2.05^{+}

Right mean = + 2.04^{+}

91.5
132.8 41.3^{+}
268.5 47.4^{+}
315.9 88.7^{+} + 1.95^{+}

92.7 + 2.01^{+}
9 27.0 134.3 41.6^{+}
9 22.0^{+} 270.3 42.7^{+}
5 -0.1 313.0 84.3^{+} + 2.07^{+}
14 21.9^{+} Gr M Time

5135.599

April 25, 1900

Hagen No 20 meas with No 9

R & Above

265.6 Ledgered

9 28.8 318.8 55.2

88.2 50.0

138.2 103.2 + 1.58

267.8 + 1.65

316.1 48.3

89.4 49.0

138.4 97.3 + 1.72

R + Below Mean = + 1.76

181.5

227.0 45.5

358.6 45.0

43.6 90.5 + 1.90

+ 1.88

182.2

9 41.2 225.6 43.4

70.0 356.4 48.8

9 35.0 45.9 92.2 + 1.86

5 - 0.1

14 34.94 M. Time

5135.608

April 25, 1900.

Hagen No 22 compared with No 9.

Left
357.9
9 51.0 46.3 48.4
149.6 47.1 Ledgered.
226.7 95.5 + 1.77

357.6 +1.78
43.7 46.1
.178.0 48.8
226.8 94.9 + 1.79

Right
267.5 Mean = + 1.78
317.7 50.2
87.0 49.6
136.6 99.8 + 1.66

269.3 +1.68
9 57.6 316.0 46.7
87.0 51.0
9 54.3 138.0 97.7 + 1.71
5 - 0.1
14 54.2 Gr M Time.
5138.621

Apr. 20. 1900

~~S Cygni~~ N 66.

Phot T. R Camelop.

1.4 40 84.1
12 50
1 50
above 10 10
274.2 < comp. star dis.

1028.8 310.9 36.7* Plotted.
92.6 39.2* Ledgered
131.8 75.9* + 232*

+232*

273.5
311.5 38.0*
93.9 37.5*
131.4 75.5* + 233*
Below
184.3 Mean = +2.40*
220.8 36.5*
4.9 35.6*
40.5 72.1* + 244*

2.48*

184.8
10 36.8 221.2 36.4*
6 5.6 6.5 33.5*
10 32.8* 40.0 69.9* + 251*
5 - 0.1
15 32.7 Gr. M. Time.
5 1 35.6 48*

April 25, 1900

Below

184.9
10 39.0 220.4 35.5
57.2 36.1
41.3 71.6 + 2.45

184.5 + 2.48
220.0 35.5
6.6 34.0
40.6 69.5 + 2.52

Above Mean = + 2.39

91.8
131.9 40.1
272.7 39.0
311.7 79.1 + 2.21

+ 2.30
93.7
10 48.0 132.2 38.5
87.0 274.8 35.4
10 43.5 310.2 73.9 + 2.38
5 - 0.1 Final mean = +2.40
10 43.4 Gr. M. Time Position Angle Ver A = 117.7
5 135.655 Sprocket Wheel B = -1.5
" " = 0.8

Posted.

April 25, 1900.

S Cygni. w 6 b.

20 8 5 7.2
13 28
6 40
5 20

Ledgered
Posted.

11 07 s2 var, var 4 t

R Cassiopeiae. w 6 b.

23 52 +49.7
13 42
10 10
1 50

II

Ledgered
Posted.

> s1 var, var 4 t

11 19 Region very low, obs. difficult; a little uncertain

11 25

April 26, 1900 (Thursday)

Bond 394 . B & C 1182.
7 04 ~~16.7~~ 00.0 7 04 16.7
7 05 00.0 7 05 16.7
Phot T. T. Monocerotis W Ob.
9.5 cap used
6 17 +7.2
9 57
3 40

7 40 Abandoned. Unable to find cap.
V Cancri
meas.d standards with phot T W Ob.
8 12 +17.9
10 42
2 30

7 45 Clouds.

8 00 Clouds thick. 8 18 +17.5
10 48
2 30

8 15 Clouds thick
8 18 +17.5
9 00 Cloudy 11 38
3 20

9 20 Clouds thick.

9 35 Clouds thick
Abandoned too cloudy

April 26, 1900.
Phot meas of Standards Phot T.
T Virginis. WGG

12 10 — 5.5
12 40
0 30

950 cloudy

Sky thickly cloudy no chance for
10 10 anything

April 27, 1900 Friday

7 00 cloudy
8 00 clearer now.
T. Monocerotis, 9^5 caps used.

Phot T. 6 17 +7.2 W. Obs.
10 47
4 30.

Plotted.
Ledgered

R & above
0.0
8 13.6 47.6 47.6
180.7 44.6
223.3 92.2 −1.86
358.3
45.8 47.5 −1.82
178.7 48.1
226.8 95.6 −1.77
L & Below Mean = −1.76
268.5
316.1 47.6
87.4 48.6
136.0 96.2 −1.75

269.2 −1.70
8 20.0 317.4 48.2
8 16.8 86.1 52.5
5 138.6 100.7 −1.64
13 16.8 Gr Mn time
5137.553
5117.107
20.446

April 27, 1900

Same Again

Lt Below

269.4

8 224 315.4 46.0

89.2 47.8

137.0 93.8 — 1.81

—1.73

268.8

316.6 47.8

86.5 52.6

139.1 100.4 — 1.68

R Above

Mean = -1.78

179.0

225.1 46.1

359.2 46.4

45.8 92.7 -1.84

-1.84

179.3

8 31.0 226.8 47.5

534 359.0 45.7

8 26.7 44.7 93.2 —1.83

5

Final mean = -1.77

13 26.7 Gr. M. time Position Angle Vernier A = 82.3

5 137.360 Sprocket Wheel A System = 2.5

5 117.107 B = 1.5

+20.253

Apr. 27, 1900

Meas. of standards (Phot T.)
V Cancri
8 18 +17.5 W Obs
11 28
3 10

Above Star no 38 comp with no. 8
98.1
9 06.0 126.6 28.5× Ledgard
281.3 25.1×
306.4 53.6× + 3.11×

98.1 + 3.04×
127.4 29.3×
279.8 27.6×
307.4 56.9× + 2.98×
Below mean = + 3.07×
9.7
35.6 25.9×
189.0 27.8×
216.8 53.7× + 3.11×

8.5 + 3.10×
9 15.4 36.4 27.9×
21.4 190.5 26.2×
9 10.7× 216.7 54.1× + 3.10×
5
14 10.7 Gr. M. Time
5137.598

April 27, 1900

V Cancri.

Star No 3 comp with No 8

Below — Ledgered

188.2
9 18.4 216.0 27.8
9.6 26.4
36.0 54.2 + 3.09

190.2 + 3.12
216.0 25.8
9.6 27.2
36.8 53.0 + 3.14

Above — Mean = + 3.06

97.5
126.3 28.8
278.9 26.8
305.7 55.6 + 3.03

98.0 + 3.01
9 28.0 127.0 29.0
9 23.2 278.8 27.7
5 306.~~8~~5 56.7 + 2.99
14 23.2 Gr. M. Time.
5137.599

April 27, 1900

ν Cancri

Star no 26 meas with no 8

Above

274.9 Ledger

9 36. 4 309.3 34.4

91.8 40.7

132.5 70.1 + 2.34

+2.32

273.0

310.8 37.8

92.2 38.3

130.5 76.1 + 2.31

Below mean = +2.42

185.3

219.9 34.6

4.7 35.1

39.8 69.7 + 2.52

185.8 +2.52

9 46.0 220.4 34.6

9 41.2 5.8 34.6

5 40.4 69.2 + 2.53

14 41.2 Gr M time -

5137.612

April 27, 1900

V Cancri

Star no 27 comp with no. 8

Right & Below

Ledgeres

5.2
9 52.0 40.3 35.1
18 6.3 33.5
21 9.8 68.6 + 2.50 ±

5.7 + 2.54
40.1 34.4
18 35.1 35.0
220.1 69.4 + 2.53

L + above

Mean = 2.48

27 5.0
31 0.1 35.1
9 3.3 38.6
13 1.9 73.7 + 2.39

27 5.6 + 2.42
10 00.4 31 0.1 34.5
9 56.2 9 3.6 37.3
5 13 0.9 71.8 + 2.45 ±
14 56.2 Gr. M. time
5137.622

April 27, 1900

V Cancri

Star No 2X comp with No. 8

Above

87.9 — Ledgerett

10 04.0 — 138.3 — 50.4^{+}

271.8 — 40.2^{+}

312.0 — 90.6^{+} + 1.90^{+}

89.6 — $+1.92^{+}$

134.~~6~~8 — 45.2^{+}

270.4 — 43.8^{+}

314.2 — 89.0^{+} + 1.94^{+}

Below — Mean = $+1.98^{+}$

0.7

43.6 — 42.9^{+}

183.0 — 40.5^{+}

223.5 — 83.4^{+} + 2.10^{+}

1.6 — +2.04

10 09.6 — 44.5 — 42.9^{+}

.13.6 — 180.6 — 45.0^{+}

10 6.8 — 225.6 — 87.9^{+} + 1.97

5

15 6.8^{+} Gr. M. Time

5137.630^{+}

Postod

April 27/1900

~~April~~ Meas or Standards for T Virginis
Phot T. 12 10 - 5.5 W66r.
1 3 05
0 05

12 8 - 6.5 12 7 - 5.0
1322 1307 12 12 - 4.0
1 14 1 08 13 26
Star no 18 comp with No. 10 1 12

R & Above
1763 Ledgered
10 560 229.3 53.0+
3538 56.2+
50.0 109.2+ +1.44+
176.1
+1.40
232.6 56.5+
353.3 55.9+
49.2 112.4+ +136+
L & B
mean = +1.30+
83.3
143.7 60.4+
262.0 60.0+
322.0. 120.4+ +1.18+
82.2
+1.20
1441 61.9+
11 01.0 263.0 57.4+
115.0 320.4 119.3+ +1.21
~~16~~ 5-7.5-Gr. m. Time
5-1 37.665+
11 05

April 29, 1900 (Sunday)

Bond 394 B & C 1182
7 06 00 . 7 06 58.5

Phot T. T Monocerotis W Obs.
9.5 cap used 6 17 + 7.2
10. 07
3 50

R & Above
180.6
7 32.0 224.6 44.0^{+}
1.6 41.9^{+}
431.5 85.9^{+} −2.03^{+}

Ledgered
Plotted

182.0 −2.01^{+}
224.8 42.8^{+}
0.4 44.4^{+}
~~4~~44.8 87.2^{+} 1.99^{+}

mean = −1.90^{+}

L & Below
88.3
137.6 49.3^{+}
269.0 47.7^{+}
316.7 97.0^{+} −1.73^{+}

88.5 −1.80^{+}
7 40.0 134.3 48.8^{+}
7 36.0 271.6 42.7^{+}
5 −1.0 314.3 91.5^{+} −1.87
12 35.0 G. M. time
5 139.524
5 117.107
+ 22.417

Posted.

April 29, 1900.

Same Again

Lt Below

87.9
7 42.0 138.2 50.3
268.4 47.6
316.0 97.9 -1.71

88.8 -1.78
137.2 48.4
270.1 43.9
314.0 92.3 -1.85

Right & above Mean = -1.88
2.8
44.9 42.1
180.9 44.3
225.2 86.4 -2.01

0.8 -1.97
7 49.0 45.6 45.3
7 45.5 180.5 44.0
5 -1.0 224.5 89.3 -1.93
12 44.5 Gr M Time
5139.531
5717.107
+22.424

Final Mean = -1.89

April 30, 1900 (Monday)

Bond 39X · B.C. 1182.
9 37 0.0 · 9 38 17.5

9 30. Just cleared.

v Cancri.

meas. of Standards with Phot. T. W Obs.

8 78 + 17.5
12 38
4 20

abandoned; too much cloud, sky not perfectly clear too murky for 14th magn. stars. Too late also for series on standards

X Herculis.

Phot T. 16 00 + 47.6 W Obs.
12 50
3 10
8 50

Abandoned too light.

Phot T. ~~X~~ R Ursae Min. W Obs.
16 34 + 72.9
13 04
3 30

April 30, 1900

R Ursae minoris.

Rθ Above

327.6 < var dis

Ledgered.
~~Plotted~~

10 22.8 77.0 109.4^{x}
155.3 95.8^{x}
251.1 205.2^{x}
154.8 + 0.48^{x}

328.7 + 0.54^{x}
76.3 107.6^{x}
150.8 103.0^{x}
253.8 210.6^{x} + 0.59^{x}
149.4^{x}

Lθ Below

mean = + 0.59^{x}

240.2
346.6 106.4^{x}
59.8 107.3^{x}
167.1 213.7^{x}
146.3^{x} + 0.65^{x}

242.7
10 33.0 343.1 100.6^{x} + 0.64^{x}
55.4^{x} 57.8 112.5^{x}
10 27.9^{x} 170.3 213.1^{x}
5 - 1.3 146.9^{x} + 0.64^{x}
15 26.6 Gr. M. Time

51140.644

~~5 17.15~~

~~527~~

Posted

April 30, 1900.

Same again

L & Below

240.7

10 36.8 344.1 103.4

59.9 106.3

166.2 209.7

150.3 + 0.57

241.2

342.3 101.1 + 0.60

56.7 111.5

168.2 212.6 + 0.63

147.4

R & Above

mean + 0.56

150.9

255.8 104.9

329.9 104.0

73.9 208.9

151.1 + 0.55

154.2

10 48.8 252.8 98.6 + 0.52

.85.6 328.3 107.1

10 42.8 ~~[illegible]~~ 205.7

5 -1.3 75.4 154.3 0.49

15 41.5 Gr. M.T.

5140.659

Final mean = + 0.58

Pos angle Var a = 133.8

Sprocket wheel B = -5.5

C = -4.8

Fairly bright auroral arch at alt. of 5 to 7

81 00 degrees above horizon in north

Apr. 30. 1900.

B. 236			B 394.	
16	14	~~59.0~~ 58.9	13 2~~2~~3	0.0
	15	59.0	24	0.0

Dis. of Jup. I Phot. R.
W. Obsr.
Colson Recorder

Compaired with next nearest sat. on same western side = sat. II

			~~01~~			
16 25 34*	16	25	15		30.2	
-2 ~~57 58~~ 0-2 00			31	89.9*	120.1	
13 33 3~~6~~4* Con. E. M. T.			41	92.8*	30.0	1
			49	91.4*	122.8	
16 26 12*			56		30.0	
-2 5~~7~~2 ~~58~~ 00		26	08	90.3*	120.3	
13 34 1~~4~~2*			17	93.3*	29.1	2
			24	91.8*	122.4	
16 26 56*			38		30.0	
-2 5~~7~~2 ~~58~~ 00			50	90.2*	120.2	
13 34 5~~8~~6*		27	02	88.7*	31.3	3
			13	89.4*	120.0	
16 27 46*			28		31.0	
-2 5~~7~~2 ~~58~~ 00			36	89.0*	120.0	
13 35 4~~8~~6*			47	93.0	29.2	4
			55	91.0*	122.2	
		28	04		31.1	
			13		120.0	

Apr. 30. 1900

16 28 18 x
-2 5~~1~~2 ~~08~~00
13 36 ~~20~~18x

16 29 02 x
2 5~~1~~2 ~~08~~00
13 37 0~~4~~2x

16 29 52
2 5~~1~~2 ~~58~~00
13 37 5~~4~~2x

16 30 45 x
-2 -5~~1~~2 ~~58~~00
13 38 ~~47~~45x

16 31 26 x
2 5~~1~~2 ~~58~~00
13 39 2~~8~~6x

16 32 04 x
2 5~~1~~2 ~~58~~00
13 40 0~~6~~4

16 32 54 x
2 5~~1~~2 ~~58~~00
13 40 5~~6~~4

16 33 30 x
-2 5~~1~~2 ~~57~~00
13 41 3~~3~~0 x

	23	88.9x	29.8	
	31	90.3x	120.1	r
	45	89.6x	32.0	
	54	87.0x	119.0	
29	07	91.8x	30.1	6
	24	89.4x	121.9	
	34		30.1	
	45	90.9x	121.0	
	51	91.0x	30.9	7
30	16	~~91.0~~	121.9	
	33		30.3	
	41	88.9x	119.2	
	49	87.1x	31.9	8
	57	88.0x	119.0	
31	10		29.0	
	21	91.1x	120.1	
	32	90.3x	29.8	9
	40	90.7x	120.1	
	51		31.0	
	59	88.8x	119.8	10
32	07	89.5x	29.8	
	18	89.2x	119.3	
	38		30.1	
	49	89.7x	119.8	
	59	88.1x	32.0	11
33	07	88.9x	120.1	
	13		31.2	
	24	89.6x	120.8	
	36	88.5x	30.3	12
	47	89.0x	118.8	

Apr. 30. 1900

16 34 17		56		30.2	
-2 5~~1~~2 ~~57~~ 00	34	08	90.0	120.2	
13 42 ~~20~~ 17		26	87.7	32.0	13
		37	88.8	119.7	
		52		30.2	
16 35 07					
-2 5~~1~~2 ~~57~~ 00	35	02	87.1	117.3	
13 43 ~~10~~ 07		12	87.0	32.2	14
		23	87.0	119.2	
16 35 47		34		30.0	
-2 5~~1~~2 ~~57~~ 00		43	91.0	121.0	
13 43 ~~50~~ 47		52	88.7	32.1	15
	36	00	89.8	120.8	
16 36 27		10		31.1	
2 5~~1~~2 ~~57~~ 00		19	90.9	122.0	
13 44 ~~30~~ 27		30	84.7	32.1	16
		41	87.8	116.8	→
13 44 ~~52~~ 49		49	83.4	32.5	
5~~9~~6		56	80.9	115.9	
45 0~~7~~4	37	04	80.0	35.0	
1~~7~~4		14	76.0	115.0	
2~~3~~0		20	73.0	39.0	
~~30~~ 27		27	73.2	112.0	
3~~9~~6		36	70.0	38.8	
4~~8~~5		45	64.8	108.8	
5~~7~~4		54	65.0	44.0	
46 0~~4~~1	38	01	64.5	109.0	
~~12~~ 09		09	61.0	44.5	
~~20~~ 17		17	60.7	105.5	
2~~9~~6		26	58.0	44.8	
3~~8~~5		35	53.4	102.8	

Apr. 30. 1900.

~3 46 4~~7~~ 4		44	49.7x	49.4
5~~1~~ 5		55	43.8+	99.1
47 0~~6~~ 2	39	02	38.1+	55.3
1~~5~~ 1		11	33.5+	93.4
2~~4~~ 0		20	31.6+	59.9
~~35~~ 29		29	28.0+	91.5
~~45~~ 39		39	27.3+	63.5
~~51~~ 47		47	25.6+	90.8
47 ~~48~~ ~~01~~ 57		57	24.0+	65.2
48 ~~09~~ 05	40	05		89.2

Not seen later
Limit of visibility

16 40 32x	40	20		63.8
-2 5~~1~~2 ~~56~~00		27	25.6x	89.4
13 48 3~~6~~2		36	24.0x	65.0
	40	43	25.0x	89.0

Seeing fairly good.

B. 236			B 394.		
16	56	1.5	14	4	0.0
	57	1.6		5	0.0

May 1, 1900 (Tuesday)

Bond 396 B&C-1182
7 05 0.0 7 06 220
7 06 0.0 7 07 220
Phot T. T. Monocerotis W Obr
9 5 cap used 6 17 +7.2
10 13
3 56

R & Above
6.4
7 38.0 40.6 34.2+ Plotted
186.6 33.3+ Ledgered.
219.9 67.5+ −2.59+

6.1 −2.57+
39.4 33.3+
184.6 35.5+
220.1 68.8+ −2.55+
L & Below Mean = −2.52+
276.9
308.5 31.6+
94.1 37.2+
131.3 68.8+ −2.55+

275.4 2.48+
7 47.0 310.2 34.8+
85.0 93.3 38.4+
7 42.5 131.7 732+ −2.40+
.5 −1.4
1241.1
51415.28 +24.421
5117.107

May 1, 1900

Same Again

L & Below

276.1
7 50.0 309.1 33.0
94.2 38.2
132.4 71.2 −2.47

275.5 −2.49
309.4 33.9
93.2 36.0
139.2 69.9 −2.51

R & Above

Mean = −2.52

185.0
218.3 33.3
5.3 33.6
38.9 66.9 −2.61

−2.56
~~2.61~~

185.3
7 59.0 220.2 34.9
6.2 35.0
7 54.5 40.2 69.9 −2.51
~~2.61~~

5 −1.4

Final Mean = −2.52

12 53.1 Gr M Time Position angle ver. a = 83.6

5 41.537 Sprocket wheel. a = −2.5

5 117.107 " " B = −1.5

+ 94

+ 24.630

May 1, 1900

Meas. of Standards for
Phot. T. V Cancri   W Obs

8 18 + 17.5
11 08
2 50

(above) Hagen No. 39 measured with No 8
Ledgered

280.1
8 31.0 307.1   27.0
99.4   26.7
126.1   53.7 + 3.11

+ 31.2
279.2
305.2   26.0
98.5   27.5
1260   53.5 + 3.12

Below
mean + 3.08
190.1
217.6   27.5
9.7   26.9
36.6   54.4 + 3.08

+ 3.05
188.2
8 38.6 216.4   28.2
9.6 9.0   27.8
8 34.8 31.08   56.0 + 3.02
5 - 1.4
13 33.4 Gr. M. Time
5141.365

May 1, 1900

Hagen No 38 comp with No. 8.

Below Ledgered

192.0
8 44.0 217.2 25.2+
9.6 26.8+
36.4 52.0+ + 3.18+

~~189.6~~ 190.0 + 3.12+
~~216.4~~ 216.8 26.8+
8.8 28.1+
36.9 54.9+ + 3.07+

Above Mean = + 3.06+

97.9
128.0 30.1+
281.2 25.2+
306.4 55.3+ + 3.04+

98.4 + 3.00+
8 52.6 126.4 28.0+
96.6 278.6 29.4+
8 48.3+ 308.0 57.4+ + 2.96+
5 - 1.4
13 46.9+ Di Infinis.
5 144.574+

May 1, 1900

Hagen No. 26 comp with No 2.

Above Ledgered.

275.8

859.0 308.2 32.4$^+$

93.4 38.0$^+$

131.4 70.4$^+$ +2.49$^+$

= +2.50$^+$

276.2

309.1 32.9$^+$

94.5 36.8$^+$

131.3 69.7$^+$ = +2.52$^+$

Below ~~mean = +2.49$^+$~~

185.6

220.6 35.0$^+$

3.5 35.7$^+$

39.2 70.7$^+$ + 2.48$^+$

185.8 +2.48$^+$

905.4 220.7 34.9$^+$

244 5.3 35.8$^+$

9 22 41.1 70.7$^+$ + 2.48

5 - 14

14 0.8 G.M.Time.

5141.084$^+$

May 1, 1900

Pa

Hagen No. 27 comps with No. 8.
R & Below

5.9 Ledgered
9 11.6 40.0 34.1
186.8 30.9
217.7 65.0 + 2.68

5.6 2.58
41.0 35.4
185.3 35.0
220.3 70.4 + 2.49

L & above Mean = + 2.57
276.8
310.3 33.5
94.1 35.9
130.0 69.4 + 2.53

276.7 2.56
9 18.6 308.8 32.1
30.2 94.3 35.2
9 15.1 129.3 67.3 + 2.60
5 -1.4
10 13.7 G. M. Time,
5141.593

May 1, 1900

(above) Hagen No. 24 comp with No 8.

89.0
9 24.4 136.0 47.0 Ledgered.
272.4 40.6
313.0 87.6 +1.98

90.6 +2.00
134.4 43.8
271.3 42.6
313.9 86.4 +2.01

Below means = +1.99
359.8
44.9 45.1
181.3 43.7
225.0 88.8 +1.95

0.6
9 33.2 45.7 45.1 +1.98
181.8 41.2
57.6 223.0 86.3 +2.01
9 28.8
5 -14
14 27.4 Gr M. Time.

5141.602

May 1, 1900

Meas of Standards near

T Virginis.

Phot T. 12 12 - 8.0 W Obs.

12 42

0 30

above Hagen No 22 comp with No. 10

3.5

10 11.0 42.1 38.6+ Ledgered

179.4 46.9+

226.3 85.5+ + 2.04+

357.8 +1.98+

45.2 47.4+

182.4 42.3+

224.7 89.7+ + 1.92+

Below mean = + 1.88+

273.3

~~10~~ 315.0 42.0+

88.4 49.2+

137.6 91.2+ + 1.88+

+1.78+

249.3

10 19.6 317.9 48.6+

30.6 87.7 49.9+

10. 15.3+ 127.6 98.5+ + 1.69+

5 -1.4

15 13.9+ Gr M time.

5141.635+

May 1, 1900

Hagen No 24 comp with No. 10

Below

271.0

10 230 311.3 — 40.3^{+} — Ledgered

89.1 — 46.9^{+}

136.0 — 87.2^{+} — $+1.99^{+}$

270.2 — $+1.95^{+}$

314.5 — 44.3^{+}

91.4 — 46.0^{+}

137.4 — 90.3^{+} — $+1.91^{+}$

Above — Mean = $+1.96^{+}$

181.4

224.3 — 42.9^{+}

1.3 — 42.7^{+}

44.0 — 85.6^{+} — $+2.03^{+}$

181.1 — $+1.98^{+}$

10 33.0 227.4 — 46.3^{+}

56.0 1.0x — 42.6^{+}

10 28.0 x 43.6 — 88.9^{+} — $+1.94^{+}$

5 − 1.4

15 26.6^{+} Gr. M. Time.

$\odot$ 141.644^{+}

May 1, 1900

Hagen no 23 comp with No. 10.

R & above

Ledgered

1.1
10 40.0 43.8 42.7^{+}
180.0 47.6^{+}
227.6 90.3^{+} $+1.91^{+}$

0.2 $+1.96^{+}$
43.7 43.5^{+}
180.9 42.7^{+}
223.6 86.2^{+} $+2.02^{+}$

L & Below

mean = $+1.96^{+}$

274.2
309.9 35.7^{+}
89.4 48.5^{-}
137.9 84.2^{-} $+2.07^{+}$

271.0 $+1.95^{-}$
10 47.0 315.3 44.3^{+}
$10\ 43.5^{+}$ 89.0 48.9^{+}
5 - 1.4 137.9 93.2^{+} $+1.83^{+}$
15 42.1 Gr. M. Time.
$57\ 41.654^{+}$

Posted

May 1, 1900

Hagen No 19 comp with No. 10.

Below

80.8

Ledgered.

10 50.6 143.5 62.7^{x}

266.0 55.9^{x}

321.9 118.6^{x} + 122^{x}

+122^{x}

82.2

146.0 63.8^{x}

266.9 54.4^{x}

321.3 118.2^{x} + 123^{x}

above Mean = +124^{x}

353.8

52.2 58.4^{x}

174.3 59.2^{x}

233.5 117.6^{x} + 125^{x}

+126^{x}

354.2

10 59.8 52.3 58.1^{x}

10.4 174.0 58.0^{x}

10 55.2^{x} 232.0 116.1^{x} + 128^{x}

5 -1.4

~~15 5[illegible]~~ Gr M Time.

15 53.8

5 41.662^{x}

11 05

May 2, 1900 (Wednesday)

Bond 394 B & C 1782
7 00 0.0 7 01 230
7 01 0.0 7 02 2 30

τ Monocerotis
Phot T. 9.5 cap used. W Ob.
6 17 +7.2
10 17
R & above 4 00
1885
7566 2166.

Too much haze and cloud,
810 ~~Too~~ very low and some
moonlight

~~L & Below~~
Phot T. X Herculis W 66.
9.5 cap used

16 00 +47.6
11 00
5 00
7 00

May 2, 1900

X Herculis

Rt Above — Ledgered Plotted.

2.8
8 16.0 444 41.6+
183.7 39.5+
223.2 81.1+ −2.16

183.5 −2.11+
223.7 40.2+
358.8 44.4+
43.2 84.6+ −2.06+

Lt Below — mean = 2:15

91.4
134.7 43.3+
274.8 clouds 37.8+
312.6 81.1+ −2.16+

90.3 −2.19+
8 25.0 134.9 44.6+
41.0 275.2 34.4+
8 20.5 309.6 79.0+ −2.22+
5 − 1.4
13 19.1+ Gr. M. Time.
5142.555+
5068.000
+74555+

May 2, 1900

Same Again

L & Below

90.5

8 28 0. 135.2 44.7 +

274.3 37.4 +

8 34.0 311.7 82.1 + – 2.13 x

clouds

92.7 – 2.22 +

8 40 133.6 Clouds thick. 40.9

275.0 Stars gone. 35.9 +

310.7 " " 76.6 + – 2.30 x

R & Above Mean = 2.20

2.7

9 50.0 44.1 41.4 +

183.7 40.7 +

9 51.5 224.4 82.1 + – 2.13 x

– 2.18 x

4.5

9 53.0 41.6 37.1 x

182.0 41.4

223.4 78.5 + – 2.24 x

9 12.8
5 –1.4
14 11.4 Gr M time
10 10

Position Angle Ver. A = 356.2

Sprocket Wheel B = 7.5
C = 6.5

5142.591
5068.000
+74.591

May 2, 1900

Same Again

R & above

3.6
9 57.6 43.4 39.8+
1838 40.4+
2242 80.2+ − 2.19+

4.2 −2.19+
43.9 39.7+
1835 40.3+
2238 80.0+ − 2.19+

L & Below Mean = 2.22+
276.5
311.9 35.4+
93.3 40.0+
133.3 75.4+ − 2.33+

279.9 +2.24+
10 04.0 312.0 38.1+
121.6 91.5 43.2+
~~15~~ 00.8 134.7 81.3+ + 2.16+
5 −1.4 Final Mean = −2.19

14 59.48 s.m.t. Observations taken through some cloud.

5142.624+
5068.000
+74.624+

Posted

May 2, 1900

χ Cygni

19 45 +32.6

13 05

6 40

6 20

10 15 Too cloudy and low

M. P. 441

3 31 +62.8

13 11

9 40

10 20 Too cloudy

clouds thick all over sky

10 25 no chance for anything farther

1900phae.proj.137OW

This Book all posted.

66
.02
64

860
188
672

860
1.76
6.84

1900phae.proj.137OW