KG
11365
553

KG 11365.553

R 130

January 28, 1902
to

1902

KG-11365.553

HARVARD
UNIVERSITY
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MAY 8 1956

January 28, 1902

Continued from R 129.

X Persei ~~[illegible]~~

Phot T. 9.5 cap. W.C.B.

L.O.A.

72.5 ∠ var. dis.

10 18.0 106.2 33.7

254.0 28.6

282.6 62.3 – 2.77

75.2 – 2.76

104.8 29.6

251.1 33.1

284.2 62.7 – 2.76

R.V.B. Mean – 2.82

~~344.5~~

14.2 29.7

165.8 27.7

193.5 57.4 – 2.96

344.5 – 2.88

10 24.2 12.4 27.9

10 21.1 163.6 33.7

5 – 08 197.3 61.6 – 2.80

15 20.3 G.M.T.

5778.

January 28, 1902.

Same Again.

RDB.
343.1
10 26.0 14.5 31.4
167.4 25.8
~~A~~ 193.2 57.2 - 2.97

2.90
345.2
11.5 26.3
163.3 34.1
197.4 60.4 — 2.84

LDA. Mean = - 2.77
250.7
287.~~2~~0 36.~~5~~3
74.6 28.8
103.4 65.1 — 2.67

— 2.64
254.3
10 34.0 284.3 30.0
10 30.0 70.7 36.7
5 - 8 107.4 66.7 - 2.62
15 29.2
5778.

P.A. = 9.8 Vert B Final mean = ~~-2.80~~ 2.80
~~H.A. = +3.40 West~~
S.T. = 7.26
Dec. = +30.6
Spirals - 1.5 B & 2.5 C L.P.P.

January 2~~8~~9 1902

Frods. 1327	Ball 103
17 54 01.6	21 04 00
B&C 1182	Ball 103
21 05 59.2	21. 05 00

Jan. ~~2~~30, 1902 (Thursday)

B&C 1182. Ball. 103.
7 05 13.0 7 04 08

R Pegasi w Ob.
23 3 +9.0
28 √
√T 2
7 30 x 2 var 3 y

R Piscium W Ob.
1 19 +2.7
4 23
3 04
7 47 u 2 var, 3 w

Phot w o Ceti w Ob.
2 12 −8.6
4 38
2 26

See next page

Jan 30, 1902.

o Ceti

above

336.2 < var. obs

8 01.0 65.4 89.2

155.6 84.6

240.2 173.8 — 0.12

336.8 -0.14

59.0 82.2

153.2 89.4

242.6 171.6 — 0.16

Below Mean = -0.21

~~333.5~~ 64.7

~~65.3~~ 150.5 85.8

1 248.2 78.4

2 326.6 164.2 — 0.30

67.1 -0.28

8 11.0 3 148.6 81.5

8 06.0 244.5 85.5

5 -1.2 1 330.0 167.0 — 0.25

1304.8 G.M.T.

5780.545

Jan. 30, 1902

Same Again

Below
648
8 14.0 152.9 88.1
245.6 81.9
327.5 170.0 − 0.19

66.7 −0.22
148.4 81.7
244.6 85.4
330.0 167.1 −0.24

mean = −0.16

Above
332.1
63.9 91.8
154.7 82.5
237.2 174.3 − 0.11

−0.10
336.1
7 22.0 57.7 81.6
8 18.0 149.3 93.8
5 −1.2 243.1 175.4 − 0.09
13 16.8 G.M. Time Final Mean = −0.18
5780.553 R.A. = 350 v Ver B + 170.2 Ver. A. 9.19
S.T. = 5.19 9.01
H.A. = +3.07 West
Dec. = −3.6

Jan. 30, 1902

o Ceti ~~perceptibl~~ perceptibly brighter by 1½ grades than comp star and brighter than previous night of obs.

X Cancri W. Ob

Phot. T. 8 48 +17.8
5 48
3 00 9.8 cap
Above 9 00

65.3 < var dis
9 07.0 111.0 45.7
244.0 54.2
298.2 99.9 — 1.66
359.4
116.9 57.5 — 1.66
248.9 42.6
291.5 100.1 — 1.65

Below
337.1 mean = — 1.75
19.6 42.5
152.9 50.9
203.8 93.4 — 1.82

333.8 — 1.84
9 15.0 26.1 52.3
9 11.0 159.7 40.0
5 — 1.2 199.7 92.3 — 1.85
14 09.8 G.M.T.
5780-590

Jan 30, 1902.

Same Again

Below

338.4

9 18.0 19.6 41.2

154.4 49.4

203.8 90.6 — 1.89

335.0 50.0 — 1.90

25.0

159.4 40.0

199.4 90.0 — 1.91

above — mean = — 1.76

248.6

292.1 43.5

60.0 56.4

116.4 99.9 — 1.66

239.6 — 1.61

9 26.8 296.5 56.9

448 65.3 47.1

9 22.4 112.4 104.0 — 1.56

5 -1.2 Final mean = -1.76

14 21.2 R. m.T.

Pa = 18.5 Var B

5780.598

S.T. = 6:23

Dec. = +17.8

Ha = — 2:26 East

Splwh = N a 25 B & 3.1 C

Jan. 30, 1901

X Persei.

Phot 3 45 +31.5 WClb

6 40 9.5 cap

2 55

LOa.

75.1 < vard[illegible]

9 58.6 105.8 30.7 ✓

252.8 30.5 ✓

283.3 61.2 ✓ − 2.81 ✓

74.8

105.3 30.5 ✓ − 2.74 ✓

250.0 35.0 ✓

285.0 65.5 ✓ − 2.66 ✓

R. & B. mean = − 2.85 ✓

345.1

14.5 29.4 ✓

166.1 27.2 ✓

193.3 56.6 ✓ − 2.99 ✓

346.6 − 2.96 ✓

10 08.0 12.5 25.9

10 03.3 x 163.0 32.2

5 − 1.2 195.2 58.1 − 2.93 ✓

15 02.1 + G.M.T.

5780.627x

Jan. 30, 1902

Same Again

RAB

343.9
10 10.0   15.1   31.2
166.4   26.6
#193.0   57.8 – 2.94

346.6   –2.94
12.2   25.6
163.0   32.0
#195.0   57.6 – 2.95

LAA.   Mean = –2.79

250.4
286.0   35.6
73.8   39.2 – 2.65
104.0   65.8

2.64
254.4
10 18.8   283.9   29.5
71.8   36.15
10 14.4   108.3   66.8 – 2.64
5 1.2   0
15 13.2   PA = 58.2 Va B
5780.634   Ha = +3 30 West
S.T. = 7.16
Dec = +30.6
Sp Wh = 1.5B & 25C

Jan 30, 1902

R Ursae Minoris

Phot T. 16 34 +72 9 w Obs

7 20
9 14
2 46

L & a. comp + dis –

149.7
1044.0 207.0 57.3 ✓
325.2 63.4 ✓
28.6 120.7 ✓ + 1.18

145.9 +1.17 ✓
208.8 62.9 ✓
329.2 58.6 ✓
27.8 121.5 ✓ + 1.16
R + B mean = +1.09 ✓
58.0
119.6 61.6 ✓
236.1 67.0 ✓
203.1 128.6 ✓ + 1.01

52.6 +1.01
10 52.0 122.6 70.0
10 48.0 241.2 58.4
~~5 –1.2~~ 1
~~5780.~~ 299.6 128.4 +1.01
15 46.5
5780.658x

Jan 30, 1902

Same Again.

R & B
57.1
10 54.0 120.2 63.1
235.8 66.3
302.1 129.4 +0.99

54.6 +1.08
123.4 68.8
240.4 58.2
298.6 127.0 +1.04

L & A. Mean = +1.09
331.2
25.7 54.5
146.4 65.2
211.6 119.7 + 1.20

326.4 +1.16
11 01.0 32.9 66.5
95.0 151.2 56.9
11
10 57.5 208.1 123.4 +1.12
5 −1.2

15 56.34 mt P.a ≠ 140.0 Ver B.
5780.66+ H.a = −3.23 East
11 05 S.T. 7.53
Sp wh ≠ 2.5 B & 3.6 C
Dec +72.7

2d Plate

Feb. 3, 1902. (Monday)

~~Ball~~ BD CII 82 Ball 103
7 06 28.2 7 04 00
o Ceti w Ob.
Phot w 2 12 −3.6
4 18
2 06

above
346.2 <vardis
7 22.4 64.2 78.0
160.1 88.8
248.9 166.8 — 0.23✓
338.8 −0.24✓
68.7 89.9✓
165.3 77.3✓
242.6 167.2 — 0.24✓
Below mean = −0.24✓
255.6
332.5 76.9
67.6 93.0
160.6 169.9 − 0.19✓

251.4 −0.24✓
7 30.0 336.7 85.3
7 26.2 73.0 79.5
−2.8 2.5 164.8✓ −0.29✓
12 23.7 G.M. Time
5784.517

Feb 3, 1902

Same Again

Below

254.2

7 32.0 334.2 80.0 ✓

70.0 89.0 ✓

159.0 169.0 ✓ −0.21 ✓

−0.18 ✓

2498 clds passing ✓

340.6 90.8 ✓

73.9 80.7 ✓

154.6 171.5 ✓ −0.16 ✓

Above mean = −0.21 ✓

165.5

244.3 78.8 ✓

338.3 91.0 ✓

69.3 169.8 ✓ − 0.19 ✓

−0.24 ✓

160.8

7 40.0 247.8 87.0 ✓

7 36.0 344.2 78.3 ✓

5 −2.5 62.5 165.3 ✓ − 0.28 ✓

12 33.5 G.M.T. Final mean = −0.22

5784.524 P.A. ~~HA~~ / Ver B 9.19

ST = 4:54 Magn = 8.97

HA = 3:42 West

Dec = −3.6

Feb. 3, 1902.

X Cancri w Ob.

Phot T. 8 48 +17.8

5 13

3 35 9.5 cap used.

Above

8 247.5

22.0 293.6 46.1

57.5 57.0

114.5 103.1 - 1.58

242.8 - 1.58

297.6 54.8

63.3 47.9

111.2 102.7 - 1.59

Below Mean = - 1.76

160.1

199.2 39.1

333.0 51.0

24.0 90.1 - 1.91

153.7 - 1.93

8 28.8 203.6 49.9

50.8 339.9 38.9

8 ~~25.4~~ 18.8 88.8 - 1.95

~~5 - 25~~

13 22 9 9 M.T.

5784 55^{x}

Feb. 3, 1902

Same Again

Below

159.3
8 31.0 19~~9~~8.7 B Q. 39.4
333.8 51.0
24.8 90.4 — 1.90

154.6
204.1 49.5 -1.92
339.0 39.4
18.4 88.9 — 1.95

Above Mean = -1.80
66.3
112.9 46.6
242.9 52.3
295.2 98.9 1.68

60.8 -1.6~~8~~7
8 39.0 115.0 54.2
8 35.0 247.3 45.5
5 -2.5 292.58 99.7 = 1.6~~8~~6
13 32.5 G.M.T Final Mean = -1.78
5784.564

R.A. = 18.0 Ver B
H.A. = -3.00 East
Dec. = +17.8
S.T. = 5.48
Symbol = 1.0 a, 2.0 B & 3.1 C

Feb. 3 1902

S' Boötis w Ob.

14 17 +54.1
6 03
8 14
3 46

9 15 . k 2 var, var 4 q 15 in tel.

π Androm. W Ob.

Phot. W 0 32 +33.2
6 28
5 56

P.A. 175° Dist 0.6± Magns 4.5 - 9.0

above A.

105.2 < br. dis

9 30.0 120.7 15.5
284.0 16.3
300.3 31.8 - ~~4~~4.27
103.4 17.4 - 4.27
120.8 14.4
285.2
299.6 31.8 - 4.27
below B. mean = - 4.32 ×
15.4
28.7 13.3
192.3 17.2
209.5 30.5 - 4.37 ×

12.8
9 37.0 29.5 16.7 - 4.36
9 33.5 193.4 14.0
6-25 207.4 30.7 - 4.35
14 31.0
5784.61

Feb. 3, 1902

R Comae w Ob.
11 53 +20.1
7 03
4 50
7 10

Var thought to be certainly seen but extremely faint in this seeing. It is perceptibly fainter than star u and another comp star (fainter) will have to be added when seeing is better. As near as can be estimated comp tonight =
10 10 u 4 var.

seeing poor. barometer rising & considerable wind after the storm.

X Persei w Ob.
Phot T 9.5 cap used

3 4~~8~~7 +31.5
7 20
3 33

see next page

Feb 3, 1902

X Persei w—Obs

~~R&~~
L&a
71.8 < var dis
10 26.0 108.3 36.5
254.4 28.1
282.5 64.6 — 2.69

74.3
104.5 #302 — 2.64
249.0 37.5
286.5 67.7 — 2.59

R&B Mean = — 2.76
344.1
14.6 30.5
164.8 29.1
193.9 59.6 — 2.87

3~~45~~5.6 — 2.88
10 35.0 12.2 266
61.0 162.6 32.7
10 30.5 195.3 59.3 — 2.89
5 — 25
05 28.0
5784.644

Feb. 3, 1902.

Same Again

RMB

343.7

10 37.4 15.5 31.8

167.1 26.1

193.2 57.9 — 2.94

346.1 — 2.90

12.6 26.5

163.0 33.7

196.7 60.2 — 2.85

L&a Mean = —2.78

249.3

285.0 35.7

74.9 29.2

104.1 64.9 — 2.68

— 2.66

253.0

10 47.0 283.1 30.1

10 42.2 72.1 36.1

5 - 25 108.2 66.2 — 2.64

15 39.7 G.M.T. Final Mean = —2.77

5784.653

R.A. = 59.9 Ver B

Ha = +4:13 West

S.T. = 7:57 Red: Plotted. Posted.

Dec = +30.6

11 00 S phl = 15 B 6 25 C

Feb. 5, 1902 (Wednesday)

BDC 1182 Ball 103
7 04 04.8 7 0 1 00

δ Cygni W. Ob.
20 8 +57.2
28 24
8 16

Var. susp. & thought to be seen at intervals although extremely diff. and a little uncertain. ~~[illegible]~~
Star r, s seen & t thought to be seen; if var is certainly ~~seen~~ ~~est~~ would
7 45 be s 2, 2 t
14.08
14.11
14.10
Region a little low, seeing somewhat poor
In above est. power 270 used & adj. 9th put [illegible] wax on eyepiece.

o Ceti W. Ob.
Phot W 2 12 −3.6
5 02
2 50

Over

Feb 5, 1902

o Ceti

Below
255.5
7 58.0 333.4 77.9
70.8 85.7
156.5 163.6 − 0.31

249.5 − 0.30
335.1 85.6
72.3 78.8
151.1 164.4 − 0.30

above Mean − 0.32
165.1
239.1 74.0
338.1 87.3
65.4 161.3 − 0.35

158.5 − 0.34
8 07.0 244.3 85.8
125.0 343.2 76.1
8 02.5 59.3 161.9 − 0.34
5 − 3.1
12 59.4 G.M.T.
5786.541

Feb 5, 1902

Same Again

Above

162.9

8 09.0 239.3 76.4

336.0 84.4

60.4 160.8 − 0.37

155.2 − 0.42

241.7 86.5

341.5 69.2

50.7 155.7 − 0.46

Below Mean = −0.35

71.9

148.8 76.9

245.9 86.8

332.7 163.7 − 0.31

64.9 − 0.28

8 15.0 150.8 85.9

8 12.0 248.4 81.1

5 − 3.1 329.5 167.0 − 0.25

13 08.9 G.M. Time.

5786.548 P.A. = 45.5 Tar B Final Mean = −0.34

HA = +3:23 West 9.19

S.T. = 5:36 Magn = 8.85

Dec = −3.6

Feb. 5, 1902

X Camera 20 Obs

Phot T

No cap used

8 48 +17.8
5 48
3 00
9 00

Above
246.4
8 47.0 292.0 45.6
61.1 52.7
113.8 98.3 - 170

244.2 -169
296.8 52.6
64.3 46.3
110.6 98.9 -168

Below mean = -174
159.0
199.5 40.5
332.5 52.8
25.3 93.3 - 183

1~~7~~52.1 -180
8 55.0 206.5 54.4
8 51.0 337.7 41.1
5 - 3.1 18.8 95.5 -1.77
13 47.9 G.M.T.
5786.575

Feb. 5, 1902

Same Again

Below
159.5
~~9~~8 58.0 200.8 41.3
332.8 53.6
26.4 94.9 – 1.79

150.8 – 1.80
205.3 54.5
339.3 39.0
18.3 93.5 – 1.82

Above mean = – 1.74
65.5
112.0 46.5
241.4 52.3
293.7 98.8 – 1.69

61.8 – 1.68
9 06.0 146.4 54.6
9 02.0 246.9 45.0
s = 3.1 29~~2.7~~9 99.~~2~~6 – 1.67
13 08.9 G.M.T. Final mean = 1.74
5786.583 t.a. = – 2:27 East
P.A. = 18.5 Vert B
S.T. = 6:22
Dec. = +17.8
Sp. Wh. = 1.5 a + 2.5 B ⊕ 3.1 C

Feb. 5, 1902

Nova Persei W.Obs

Phot T. 9.5 cap. used

3 24 +43.6
L & A 6 48
327.5 < comp * dis 3. 24
9 49.0 29.8
137.7 62.3
221.7 84.0
146.3 + 0.65

317.1
40.2 83.1 + 0.66
148.0 6~~6.7~~8.2
21~~7.4~~0.2 ~~149.5~~ + 0.67
R & B 145.3
mean = +0.54
233.9
306.3 72.4
43.4 89.2
132.6 161.6 + 0.35

226.2 +0.41
9 59.8 313.1 86.9
9 54.4 54.5 68.5
5 -3.1 123.0 155.4 + 0.47
14 51.3 G.M.T.
5786.619

Feb. 5, 1902.

R.W.B.

235.6

10 02,0 302.6 67.0

45.7 87.3

133.0 154.3 + 0.49

225.3 + 0.47

313.2 87.9

55.5 68.7

124.2 156.6 + 0.45

L.D.A. Mean = + 0.54

148.4

210.9 62.5

313.6 88.0

41.6 150.5 + 0.57

136.4 +0.61

10 10.0 221.3 84.9

10 06.0 328.5 61.4

5 - 31 29.9 146.3 + 0.65

15 02.9 G.M.T. Final Mean = + 0.54

6786.627 PA = 77 3 Kw B 7.25

Ha = 4.07 West Magn = 7.79

S.T. 7:27

Dec = + 43.4

S'p.W. = 0.5a 1.5 β 2.0 C

Feb. 5, 1902

X Persei Wells

Phot T. 8 47 +31.5
9.5 cap 7 47
4 00

L & A.
72.0 (vardis)
10 37.6 106.1 ~~34.1~~ 34.1
253.6 ~~47.5~~ 30.4
284.0 ~~81.6~~ - 64.5 - 2.69

73.9 - 2.71
105.3 31.4
252.1 32.1
284.2 63.5 - 2.73
R & B mean = - 2.80
343.2
14.5 31.3
165.6 27.0
192.6 58.3 - 2.93

345.6
10 45.0 12.8 27.2 - 2.90
10 41.3 162.8 32.4
5 - 3.1 195.2 59.6 - 2.87
15 38.2 G.M.T.
5786.651

Feb 5, 1902

RgB
3426
10 47.8 140 31.4
166.0 27.4
193.4 58.8 - 2.91

-2.88
345.8
122 26.4
162.7 34.3
197.0 60.7 -2.84

Loa Mean = 2.76
251.1
287.0 35.1
74.7 28.7
103.4 63.8 - 2.72

254.8 -2.64
10 55.0 283.5 28.7
10 51.4 68.2 39.5
5-3.1 107.7 68.2 -2.57
15 48.3 G.M.T. PA = 59.5 Ver B Final Mean = 2.78
5786.658 Ha = +4 23 West
S.T. = 8:10
d 00 Dec = +30 4
Sl wh = 15B + 2.5C

Feb. 5, 1902.

F 3451	Ball 1 03
& 18 27 32.8	21 10 0.0

Feb. 6, 1902 (Thursday)

B & C 1182 Ball 103
7 06 17.5 7 03 00

Phot W o Ceti wells.
212 −3.6
435
223

Below
*76.1 crandis
7 27.6 154.5 78.4
254.6 83.4
338.0 161.8 — 0.35

74.5
156.1 81.6 — 0.40
256.9 74.7
331.6 156.3 — 0.40
Above Mean = −0.34
346.7
63.1 76.4
158.2 89.1
247.3 165.5 — 0.27

343.1
7 36.4 69.7 86.6 — 0.28
640 165.9 77.6
7 32.0 243.5
5 −33 164.2 — 0.30
12 28.7 Gr.M. Time.
5787.520

Feb. 6, 1902

Same Again

Above

3432

7 39.0 ~~64.7~~65.2 ~~81.5~~

162.1 82.0

247.6 85.5

167.5 − 0.24

33~~8.4~~ 9.2 − 0.24

67.1 87.9

163.3 78.8

242.1 166.7 − 0.25

Mean = −0.28

Below

250.8

331.1 80.3

68.6 82.6

151.2 162.9 −0.32

251.3 −0.32

7 57.0 335.4 84.1

930 75.2 78.8

7 46.5 154.0 162.9 −0.32

5 − 33

Weighted Mean = −0.32

12 43.2 G.M.T.

5787.530

Sky little hazy in first group and much more hazy & difficult in second group. Second group called 1/3 weight

9.19

8.87

Feb. 6, 1902

o Ceti

P.A. = 47.5 Var B
~~H~~A. = 3.08 West
Dec = −3.6
S.T. = 5.20

X Cancri. w Obs

Phot T. 8 48 +17.8
5 38
9.5 Cap used 3 10
8 50

Above
659 < radius

8 34.0 | 114.6 | 48.7
243.7 | 48.7
292.4 | 97.4 − 1.72
63.6 | − 1.70
115.3 | 51.7
246.1 | 47.2
293.3 | 98.9 − 1.68

Below | mean = − 1.76
336.2
20.2 | 44.0
153.8 | 49.7
203.5 | 93.7 − 1.82

336.1 | − 1.82
8 43.8 | 23.5 | 47.4
7.8 | 156.7 | 46.3
8 38.9 | 203.0 | 93.7 − 1.82
5 − 3.3
13 35.6 G.M.T.

Feb 6 1902

Same Again

Below

3354
8 48.0 23.2 47.8
154.2 47.9
202.1 95.7 −1.76

336.3 −1.75
23.7 .47.4
154.2 .49.2
203.4 .96.6 −1.74
Above mean = −1.70

244.7
293.7 49.0
634 51.6
115.0 100.6 − 1.64

903.0 243.3 −1.66
~~8 5~~ 294.6 51.3
111.0 637 47.7
8 55.5 111.4 99.0 −1.68
5 − 3.3 Final mean = −1.73
13 52.2 RA = 17.5 Var B
5787.578 HA = 2:24 East
S.T. = 6:26
Dec = +17.8
Spkl = 1.5a 2.5B & 3.1C

Feb. 6, 1902.

Phot   γ Leporis?   w Ok

3 40 − 22.5
7 10
1 30

P.A. 350° Dist 1.8 Magns. 3.7 & 6.4

Below ∠ br. dis
97.6
10 05 132.8   35.2
276.6   36.5
313.1   71.7   − 24.5

97.2
135.2   38.0   − 24.0
275.8   36.9
312.7   74.9   23.5
Above   Mean = − 24.8

8.7
41.4   32.7
187.0   34.5
221.5   67.2   − 26.0

6.2
10 10 41.6   35.4   − 25.6
10 07.5 186.9   33.8
5 − 33 220.7   69.2   − 25.3
15 04.2
5787.

The star as indicated in the working double star book ~~cam~~ with a dist. of 9.3 sec. cannot be found. The star is provisionally meas. tonight subject to confirmation. OZ

Feb 6, 1902

disproval tomorrow

Although the seeing is not the very best yet the image of the bright component seems to be moderately round and it does not seem as though it could have a bright companion away 9 secs without being seen.

X Persei WCK

Phot T. 9¾ cap used

3 45 + 31.5

7 3 0

3 45

Left

250.2

10 24.0 284.7 34.5 Krandis

74.9 30.7

105.6 65.2 − 2.67

254.4 − 2.68

282.3 27.9

71.9 37.0

108.9 64.9 − 2.68 mean = − 2.80

Right

162.1

195.4 33.3

347.5 25.2

12.7 58.5 − 2.92

166.6

10 34.0 193.2 26.6 7 6 − 2.92

31.9

10 29.0 343.3 58.5 − 2.92

5 − 3.3 15.2 57 8.7 6.3

15 25.7 1 m.

Feb 6 1902
Same Again

Right
163.3
10 38.0 196.8 33.5
346.3 25.6
11.9 59.1 - 289

167.1 - 289
193.3 26.2
342.4 32.9
15.3 59.1 - 289

Mean = - 2.74

~~Left~~
70.6
108.0 37.4
252.4 29.6
282.0 67.0 - 261

74.7 - 2.58
10 50.0 104.1 29.4
10 44.0 248.1 39.5
5 - 33 287.6 68.9 - 254
15 40.7 G.M.T.
5787.655 PA = 59.0 Var B.
HA = 4h 22 West
S.T. = 8:10
Dec = +30°
Sl/Wh = 15 β & 20 C

Final Mean = - 277

Fel. 6, 1902

R Comae   Wells

11 53 + 20.2
8 15
3 38

8 22

11 05 Abandoned for tonight.

BQC 11A2.   Ball 603
18 28 27.5   21 06 00

Ledgered, Plotted, Posted,

Feb 7, 1902 (Friday)

BD0 1182 Bal [illegible]
7 05 23.0 7 08 00.0

Phot w o Ceti w cld
2 1 2 − 3 6
4 3 2
2 2 0

Below
253.9
7 47.0 331.7 77.8
67.3 91.0
158.3 168.8 − 0.21

247.6 − 0.22
337.0 89.4
78.3 79.2
150.5 168.6 − 0.22
mean = − 0.31

Above
163.9
238.3 74.4
338.4 83.8
62.2 158.2 − 0.42

156.9 − 0.40
7 56.0 242.0 85.1
103.0 343.4 75.6
7 51.5 59.0 160.7 − 0.37
5 − 3.4
12 48.1 G.M.T.
5788 = 533

Feb 7, 1902

Same Again

above
162.7
7 58.0 239.04
336.9 76.7 ✓
64.0 87.1 ✓
163.8 ✓ − 0.31

154.9
244.0 89.1 ✓ − 0.30
343.5 75.1
58.6 164.2 − 0.30
Mean = −0.31

Below
69.0
145.9 76.9 ✓
245.4 87.6 ✓
333.0 164.5 − 0.29

65.5 −0.32
8 04.0 152.4 86.9 ✓
8 01.0 250.6 75.4
5 −3.4 326.0 162.3 − 0.34
13 57.6 G.M.T.
5788.540 P.A. =
H.A. = 3.16
Dec = −3.6
S.T. = 5.28.

Mean − 0.31
9.19
Magn. 8.88

Tail piece accidently not put in slot before meas. so P.A. can not be read.

Feb 7, 1902

X Cancri 20 Obs

Phot T. 9.5 cap

8 48 +17.8

Above

647
8 36.0 112.2 <rarchi
242.0 47.5
54.2
296.2 101.7 — 1.61

59.3 1.62
115.0 55.7 —
246.5 45.3
291.8 101.0 — 1.63

Below Mean = —1.81
339.0
19.8 40.8
155.7 44.4
200.1 85.2 —2.05

336.9 —2.00
8 44.0 23.3 46.4
158.~~7~~0 42.0
8 40 0
5 - 34 200.0 88.4 —~~2~~1.96
13 36.6 G.M.T.
5788.567

Feb 7, 1902

Same Again

Below

339.4
8 46.6 20.0 40.6 ✓
155.0 47.1
202.1 87.7 ✓ — 1.98

~~339.7~~ 336.5 —1.98
21.7 45.2
157.9 42.1
200.0 87.3 —1.99

Above Mean = —1.82

246.5
290.5 44.0
61.1 54.1
115.2 98.1

— 1.70 ✓

240.8 1.66 ✓
8 57.0 295.4 54.6
103.6 65.1 46.7
8 51.8 111.8 ~~91.3~~
5 —3.4 101.3 — 1.62 ✓
13 48.4 P.a. = 190 Ver B Final Mean = —1.82
5788.575 Ha. = —2:27 East
Dec = +19.8
ST = ~~8.0~~ 6 6:22
ST Wh = 1.5a + 2.5β + 3.1C

Feb. 7, 1902

30 Tauri w Obs

Phot w 3 41 +10.8

7 13

3 32

P.A. 70° Dist 9" Magns. 4.5 – 9.4

Above

12.9 for dist

10 07 32.7 19.8"

195.2 15.6"

210.8 35.4 – 4.04"

14.3 – 4.01"

30.6 16.3"

192.5 20.1

212.6 36.4" – 3.98"

Below Mean = – 4.00

283.5

302.1 18.6"

103.2 17.4

120.6 36.0" – 4.00

282.6

10 19 300.6 18.0" – 4.00

102.7 17.9

10 13.0 120.6 35.9 – 4.01

5 – 3.4

15 09.6 g.m.t.

Off.

Feb 7, 1902

n Puppis w Obs
7 35 -26 6

Phot w 7 52
0 17

PA 325° Dist 10" Magns 5.5-5.1

S F comp. slightly less brighter

Right A

10 38.6 157.8 ~~S F & tr. dir~~

~~245.5~~

340.2

60.7

159.1

239.7

333.7

~~3~~ 65.1

87.7
80.5
168.2 - 0.22

80.6 - 0.18
91.4
172.0 - 0.15

Mean = -0.20

Left B

~~153.9~~ 70.8

~~244.0~~ 148.3

245.2

333.7

65.5

10 48.4 152.9
10 43.5 246.9
5 - 3.4 330.7
10 40.1
5788.

77.5
88.5
166.0 - 0.27

87.4 - 0.22
83.8
171.2 - 0.17

Feb. 7, 1902.

Phot Dv γ Leporis 20-C Ob

5 40 - 22 5

8 1 5

2 3 5

P.a. 350° Dist. 1.8± Mags 3.7-6.4

Below

89.6 Lbr. dis

10 55 124.0 34.4

270.0 35.3

305.3 69.7 - 2.52

90.6 - 2.50

127.4 36.8

271.1 33.8

304.9 70.6 - 2.49

Above Mean = 2.49

2.4

35.7 33.3

180.2 36.6

216.8 69.9 - 2.51

1.0 - 2.48

11 03 3~~8~~8.1 37.1

10 59 180.8 34.6

5 -3.4 215.4 71.7 - 2.45

10 55.6

5788. F 3451 Ball 103

18 31 23.0 21 06 00

Ledgered, Plotted, Posted.

February 9, 1902 (Sunday)

FR34NT	Ball 103
18 42 N.T	21 09 00
B&C 1182	Ball 103
21 13 34.0	21 10 00

Feb. 10, 1902 (Monday)

B & C 1182 — Ball 103
7 03 30.8 — 7 00 00
7 04 30.7 — 7 01 00

a Ceti no Obs.

Phot W 2 12 − 3.6
5 12
3 00

Above
158.3 < radius
7 47.0 235.2 76.9
332.1 88.8
60.9 165.7 −0.27

153.0 −0.26
240.6 87.6
337.9 78.5
56.4 166.1 −0.26
Below mean = −0.28
69.3
146.4 77.1
244.4 86.7
331.1 163.8 −0.31

Reject

63.2 −0.30
7 53.0 150.3 87.1
7 50.0 249.3 76.8
5 − 35 326.1 163.9 − 0.30
15 46.5 Reject above images not in good focus

Feb. 10, 1902.

Same Again

I

Below

68.8

7 55.0 | 145.3 | 76.5 ✓

244.5 | 86.1 ✓

330.6 | 162.6 | − 0.33 ✓

66.4

150.0 | 83.6 | − 0.35 ✓

248.5 | 77.2

325.7 | 160.8 | − 0.37 ✓

Above | Mean = − 0.34 ✓

3 37.6

3 55.6 | 79.0

153.9 | 85.9 ✓

239.8 | 164.9 | − 0.29

− 0.34 ✓

2 333.3

8 02.0 | 3 58.6 | 85.3

117.0 | 159.8 | 74.3

7 58.5 | 1 23.41 | 159.6 | − 039

5 − 3.5 | ~~Final mean − 0.51~~

~~919~~

12 55.0* G.M.T. | ~~Magn = 8.80~~

5791.538

~~H.A.~~

~~S.T.~~

~~Dec.~~

Feb 10, 1902

~~III~~

II

Above
3418
8 13.0 54.8 73.0
154.8 81.0
235.8 154.0 − 0.50

334.8 − 0.43
57.5 82.7
156.9 78.5
235.4 161.2 − 0.36

Below Mean = − 0.42
249.2
325.4 76.2
67.3 81.3
148.6 157.5 − 0.43

244.2 − 0.40
8 19.0 327.8 83.6
8 16.0 68.9 76.5
5 -35 145.4 160.1 − 0.38
13 12.5 G.M. time -
5791.500 ~~Last three quarters~~

Feb. 10, 1902.

VI

III

Below

245.8

8 23.0 325.2 79.4

644 85.6

150.0 165.0 − 029

245.6

328.9 83.3 − 0.33

67.1 77.3

144.4 160.6 − 037

Above

Mean = − 0.38

158.6

234.7 76.1

335.4 82.9

58.3 159.0 − 0.40

− 0.42

155.0

8 29.4 236.1 81.1

8 26.2 338.5 75.4

5 3.5 53.9 156.5 − 045

13 22.7 9. M.T.

5791.558

Last 3 groups only retained

Final mean = − 0.38

C.S. = 9.19

magn = 8.81

PA = 226.0 [illegible]

HA = + 3.32 West

S.T. 6:04

Dec. − 3.6

Feb. 10, 1902

X Cancri   W Obs

Phot T.   95 caf

8 48 +17.8
6 25
2 23
9 37

Above
65.9
9 04.0   1[illegible]9.1   44.2
243.6   52.5
296.1   96.7   − 1.74

61.8   − 1.74
113.0   51.2
248.9   45.1
294.0   96.3   − 1.75

Below   Mean = − 1.84
338.7
19.7   42.0
156.2   46.0
202.2   88.0   − 1.97

334.3   − 1.94
9 11.6   24.6   50.3
15.6   1~~6~~59.1   39.8
9 07.8   ~~#~~198.9   90.1   − 1.91
5 − 3.5
14 04.3 G.M.T.
5791.585

Feb 10.1902

Same Again

Below—

339.2

9 14.0 18.9

153.4 39.7

202.7 49.3

89.0 — 1.94

339.9 — 1.90

26.0 52.1

160.0 39.6

~~201~~ 91.7 — 1.87

199.6

Above Mean = -1.80

248.4

292.1 43.7

60.4 54.9

115.3 98.6 — 1.69

243.6 — 1.69

9 22.0 298.0 54.4

9 18.0 65.6 44.4

5 — 3.5 110.0 98.8 — 1.69

14 14.5 G.M.T. Mean — 1.82

5791.594 P.A. 195

S.T. 7.02

HA = -1.47 East

Dec + 17.8

Split 15 A 25 B & 31 C

Feb 10, 1902

~~η Ruffin~~
~~7 35 −26.6~~
~~0 10 −26.6~~

Plot W — γ Leporis W Ob.
5 40 −22.5
~~9 50~~
2 10

PA 350 Dist 1.8″± Magns 3.7 − 6.4

Left
87.5 ∠ bi dis
10 25 126.8
271.6 39.3
303.1 31.5
70.8 −2.48′
89.4
122.1 32.7 −2.50′
268.7 36.7
305.4 69.4 −2.53′
Right mean = −2.50′
358.2
35.7 37.5
180.6 32.0
212.6 69.5 −2.49′

359.6 −2.50′
10 29.8 322.8 33.2
10 27.4 178.1 36.8
5 −3.5 214.9 70.0 −2.51′
15 23.9 G.M.T.
5791.

Feb. 10, 1902

κ Puppis w Ob.

Phot W

7 35 – 26.6

8 20

0 45 49 – 51

P.a. 325 Dist 10" ~~50 – 52~~

Above A.

161.3 < Sl. F. & br. dis.

10 51.0 242.1 80.8

337.2 88.1

65.3 168.9 –0.21'

156.9 –0.22'

241.4 84.5

338.2 82.8

~~1~~61.0 167.3 –0.24'

Below B. Mean = –0.22'

70.8

151.6 80.8

247.4 84.8

332.2 165.6 – 0.27'

66.7 –0.22'

10 56.0 152.7 86.0

7.0 246.1 85.1

10 58.5 331.2 171.1 – 0.17'

5 – 8.5

15 50.0 ~~B~~ F 3451 Ballies

5 21. 18 44 01.0 21 07 55

L.P.P.

Feb. 11, 1902 (Tuesday)

Ball 103 B+C 1182
6 59 00 5 0244.55
Phot W — ° Octo W Ob
2 12 −3.5
5 12
3 00

Below
69.5 < var. dis.
7 40.0 145.4 75.9
246.3 80.0
326.3 155.9 − 0.46

66.6 − 0.50
146.6 80.0
249.9 72.1
322.0 152.1 − 0.53
Above mean = −0.47
340.1
52.5 72.4
154.9 83.2
238.1 155.6 −0.47

334.1 − 0.44
7 48.6 58.2 84.1
158.0 73.7
7 44.3 + 231.7 157.8 −0.42
5 −3.8
12 40.5 G.M.T.
5792.528

Feb. 11, 1902

Same Again

~~Bel~~
Above

340.9
7 51.0 51.8 70.9
154.0 83.4
2~~4~~37.4 154.3 — 0.49

— 0.44
333.6
59.1 85.5
159.2 74.1
233.3 159.6 — 0.39

Below Mean — 0.48
2~~54~~9.2
324.2 75.0
66.1 80.0
146.1 155.0 — 0.48

247.8 — 0.52
7 58.4 324.3 76.5
7 54.7 69.6 73.8
5 -3.8 ~~142.6~~ ~~149.5~~ 0.57
12 50.9 143.3 Final Mean 0.48
~~5 -3.8~~ 150.2
1 P.A. 48.0 Vent B C.S 9.19
H.A. = +3:28 West magn = 8.71
5792.535 S.T. 5:38
Dec. -36

Feb 11, 1902

IX Comci wlle

8 ~~48~~ +17s

Phot. T. 6 24 qv cap

224

9 36

Above

248.3 } vardia

9 02.0 293.7 45.4

59.2 54.6

113.8 100.0 − 1.66

242.5

296.5 54.0 − 1.68

~~1~~ 66.7 ~~44~~.4

111.1 98.4 − 1.70

Below mean = −1.79

158.2

198.8 40.6

335.0 50.3

25.3 90.9 − 1.89

154.3 − 1.90

9 10.0 203.4 49.1

338.5 41.5

9 06.0 20.0 90.6 − 1.90

5 − 3.8

14 02.2 G.M.T.

585

5792 ~~[illegible]~~

Feb 11, 1902

Same Again

Below
158.0
9 12.6 ~~14~~ 200.4 — 42.4
334.8 — 49.6
244 — 92.0 — 1.86

155.3
204.3 — 49.0 — 188
382.2 — 41.8
20.0 — 90.8 — 189

Above — Mean = — 180
66.1
112.1 — 46.0
243.2 — 52.8
296.0 — 98.8 — 169

62.6
9 20.0 115.5 — 52.9 — 172
9 16.3 248.4 — 43.5
5 -38 291.9 — 96.4 — 175
14 1 25 G.M.T.
5792. 592
P.A. 195 Reit B
H.a — 1.47 East
S.T. = 7.68
Dec. + 1.78
Split = 1.5 a, 2.5 B & 3.1 C

Feb 11, 1902.
R Ursae minoris
16 34 +72.9
7 47
8 47
1 13

Phot T.
w-Obs

Left
1523 < comp + dis
10 24.0 206.4 54.1
327.9 63.7
31.6 117.8 + 1.24

146.7 +1.18
211.7 65.0
328.8 58.7
27.5 123.7 +1.11

Right mean = +1.16.
58.7
118.9 60.2 3
62.
237.2
299.5 122.5 +1.14

56.6
10 31.0 131.2 64.6 +1.14
55.0 239.8 57.8
10 27.5 297.6 122.4 +1.14
5 - 3.8
15 23.7 G. M. Time -
5792.642

Feb. 11, 1902

Same Again

Right

59.9
10 33.0 118.7 58.8
235.8 65.6
301.4 124.4 +1.10

+1.06
54.8
124.2 69.4
241.1 58.1
299.2 127.5 +1.03

~~Left~~

Mean = +106

331.9
26.4 64.5
147.1 64.2
211.3 128.7 +1.00

+1.06
326.0
10 38.4 30.9 64.9
11.4 150.4 58.6
10 35.7 209.0 123.5 +1.12
5 -3.5
15 32.2 G.M.T.
5792.647

Feb. 11, 1902

~~III~~

~~Left~~

330.4
10 43.2 27.5 67.1
146.2 65.0
211.2 132.1 + 0.93

326.4
30.0 63.6 + 1.08
151.8 54.5
206.3 118.1
+ 1.23

Right Mean = + 1.10
242.4
299.5 57.1
53.9 67.2
121.1 124.3 + 1.10

236.7
10 51.0 302.40 65.7 + 1.12
94.2 59.2 57.7
47.1 116.9 123.0 + 1.13
v = 3.5 Final Mean = + 1.11
43.6 Mgt. H.A. = −8.0 East
792.6 S.T. = 8 29
P.A. = = 322. V.E.B
Dec = +72.7
S'pwh = 20 β 435 c

Feb 11, 1902

F3451 Ball 103
18 41 05.1 21 00 0.0

L PP

Feb 12 1902 (Wednesday)

B & C 1 & 2 Ball 1 & 3
7.08 V 0.6 7 05 00 W Obs

o Ceti
2 12 -3.6
Phot. # W 5 30
-3 1 8

Below
246.9 < var. dis.
7 58.0 322.8 75.9
67.7 7 31
140.8 149.0 - 0.59

2 50.1 - 0.62
321.7 71.6
68.0 clds. stars faint. 7 4.0
142.0 images faint 145.6 - 0.66
Above mean - - 0.54
154.2
235.5 clds. stars dim. 81.3
336.3 74.9
51.2 156.2 - 0.46

15~~3.7~~ 6 2 - 0.45
8 08.0 231.9 75.7
8 03.0 333.7 81.3
5 -3.8 5~~6~~.0 157.0 - 0.44
12 59.2 G M Time -
5793.541

Feb. 12, 1902.

Same Again.

Above

154.7

8 11.0 236.2 81.5

336.8 74.4

51.2 155.9 − 0.46 ✓

✓

157.1 −0.47

231.9 74.8 ✓

334.0 80.0

54.0 154.8 − 0.48 ✓

mean = −0.52 ✓

Below

65.5

145.7 80.2

250.8 69.4

320.2 149.6 − 0.58 ✓

68.8

8 17.6 140.8 72.0 ✓ − 0.58 ✓

8 14.3 246.9 77.6 ✓

5 −3.8 324.5 149.6 − 0.58

13 10.5 G. M. Time Final mean = −0.53

5793.549 P.A. = 48.5 Var β 9.19

H.A. = +3.52 West Magn = 8.66

S.T. 6.07

Dec = −3.6

Feb. 17 1902

Σ 1245

ρ VIII 108 no Obs.

Phot.

8 29 +7.1
7 29
1 00

Σ 645

ρ Orionis no Obs.

5 7 +2.8
7 29
2 22

~~too cloudy~~

Σ 12' no Obs

323 Tauri

4 54 +26 5
7 34
2 40

~~too cloudy~~

Σ 518 no Obs

4 9 -7.8
7 35
3 26

too cloudy

Σ 1138 = Navis

7 40 -14.5
7 44
0 04

Feb 12, 1902

Phot. W. Σ 1138 A = 2 Navis w Obs.
PA 340° Dist 16" Magns 6.3—7.0

10 30 Cleaner

162.8 < br. dis
10 36.0 231.5 68.7
340.2 73.7
53.9 142.4 − 0.73

159.0 − 0.73
233.9 74.9
342.2 67.5 − 0.73
49.7 142.4
mean = − 0.74

73.0
140.8 67.8
248.2 74.0
327.2 141.8 − 0.74

70.2 − 0.74
10 42.0 143.9 73.7
10 39.0 251.9 68.3
5 − 3.8 320.2 142.0 − 0.75 L.P.
15 35.2 G.M.T.
5793.

Seeing extremely bad, images very blurry & running together most of the time a little more distinct at intervals

Feb. 13, 1902 ~~Th~~ (Thursday)

F 3451	Ball 103
16 58 57.0	21 10 0.0

Feb. 14, 1902. (Friday)

~~Reset~~ B&C 1182

B&C 1182 Ball 103
7 05 08.0 7 05 05

R Piscium W Obs.
1 19 +2.8
5 04
3 45

7 42 u 3 var 2w
power 270 used.

12.60
12.54
12.57

R Ceti W Obs
2 21 -0.9
5 01
3 30

o Ceti W Obs.
2 12 -3.6
5 05
3 43

see next page

Feb. 14, 1902

Phot W   o Ceti   W Abz.

Below

250.5 Grandis

8 09.0   326.1   75.6

68.2   79.6

147.8   155.2   -0.47 ✓

247.9   -0.48 ✓

327.6   79.7

70.7   75.4 ✓

146.1   155.1   -0.48

Above   Mean = -0.55 ✓

161.7

233.3   71.6

338.6   76.3

54.9   147.9   -0.62 ✓

159.1   -0.62 ✓

8 16.0   236.6   77.5

25.0   341.3   69.7

8 12.5   51.0   147.2   -0.63 ✓

5 -0.1

13 12.4 G.M.T.

5795.650

Feb. 14, 1902
Same Again.

Above

161.2

+6
8 18.0 231.0 69.8
336.6 78.6
55.2 148.4 − 0.61

−0.62

157.0
235.0 78.0
342.8 69.3
52.1 147.3 − 0.63
Below

Mean = − 0.60

72.5
143.6 71.1
247.2 78.1
325.3 149.2 − 0.59

69.3 − 0.58
8 26.0 146.1 76.8
8 22.0 252.1 7~~4~~3.9
5 − 0.1 326.~~75~~ 0 150.7 − 0.56
13 21.9 G.M.T.
5795.557

Final Mean = − 0.58
P.A. − 147.5 West
S.T. = 6.17
Ha. = + 4.6 West
Dec = − 3.6

Magn 9.19
8.61

Feb. 14 1902

X Cancri. Wells

Phot T. 9.5 cap

8 48 +17.4
6 33
2 15
9 45

Above

246.8 < radius

8 56.0 292.0 45.2
62.4 52.3
114.7 97.5 −1.72

244.7 −1.72
298.2 53.5
66.6 44.5
111.1 98.0 −1.71

Below Mean = −1.86

340.~~5~~8
18.1 37.3
154.3 50.0
204.3 87.3 −1.99

335.8 −2.00
9 05.0 24.5 48.7
9 00.5 160.5 38.1
5−0.1' 198.6 86.8 −2.00
14 00.4 G.M.T.
5795.583×

Feb. 14, 1902

Same Again

Below
338.6
9 07.4 19.4 40.8
155.6 46.0
201.6 86.8 - 2.00

-2.04

338.2
23.6 45.4
159.8 38.7
198.5 84.1 -2.08
Above Mean = - -1.88
247.2
292.2 45.0
63.3 52.8
116.1 97.8 - 171

242.6 -171
~~10~~ 9 15.4 296.2 53.6
66.4 44.2
9 12.4 110.~~64~~ 97.8 - 171
5 -0.1 Final Mean = -1.87
14 12.3 G.M.T.
5795. 592
P.A. = 195 Ew B
H.A. = -1:36 East
S.T. = 7:09
Dec = + 17.8
Sp Wh = 15 a, 25 B 3.1 C

Feb. 14, 1902

R Tauri w Obs.

4 16 + 9 1
7 26
3 10

~~9 48~~ 10:00 u 2 var 3 w

13.26
13.12
13.19

δ' Bootis w Obs

14 8 + 52 5
7 58
6 10
5 58

1025 k 2 var 4 q

13.49
13.19
.68
13.34

T Ursae Maj.

~~12 22 + 59.5~~

12 34 + 60.5
8 14
4 20
7 40

10 3 8 r 2 var 2 s

12.58
12.41
12.52

Feb 14, 1902

R Comae

11 52 +20 ?
8 34
---
3 18
8 43

R Comae is very faint, but thought to be certainly seen at intervals.

Sky quite clear but some moon-light. As near as can estimate
11 01 est = in 6 var 13.55

L. P. P.

Feb-14, 1902 (Saturday)

BOC 1182 Ball 103
7 02 08.6 7 02 00

~~R~~

R Pegasi. Wells
23 0 +8.6
29 20
6 20
Too low

R Ceti.
2 14 -0.2
5 24
3 10

Abandoned moon too bright at this alt. to see faint stars

Plot w o Ceti Wells
2 12 -3.6
5 38
3 26

Feb. 15, 1902

o Ceti

Below

249.4 < vardis

7 53.0 327.0 77.6 ✓

72.2 73.9 ✓

146.1 151.5 ✓ − 0.55 ✓

250.0 ✓

326.1 76.1 ✓ − 0.53

~~6~~70.3 77.2 ✓

147.5 153.3 ✓ − 0.51 ✓

Above Mean = 0.58 ✓

158.4 ✓

234.8 76.4

343.2 69.4 ✓

52.6 145.8 ✓ − 0.66 ✓

160.1 − 0.62 ✓

8 01.0 232.4 72.3 ✓

337.3 76.9 ✓ ✓

7 57.0 ~~[illegible]~~ 149.2 ✓ − 0.59

5 − 0.1 ~~54.2~~

12 56.9 54.2

5796.540

Feb. 15, 1902

Same Again.

Above
158.6
803.0 235.4 76.8
340.1 72.3
52.4 149.1 -0.59 ✓

-0.58 ✓
160.7
231.2 70.5
336.1 79.1 ✓
55.2 149.6 - 058

Mean = -0.53 ✓

Below
66.8
146.6 79.8
248.1 76.2
324.3 156.0 -0.46 ✓

-048 ✓

69.5
8 10.0 143.2 73.7
~~8 06.5~~ 247.6 79.9
5 - 0.1 327.5 153.6 -050
13 06.4 G.M.T. Final Mean = -0.56
5796.045 R.A. = 4 6.0 Ver B 9.19
H.A. = 4:00 West magn = 8.63
S.T. = 6:12
Dec = -3.6

Feb. 15, 1902

β Persei w Ob.

Phot T. 3 00 40.4
6 45
3 45 I

L O A. < var dis

81.4
9 03 07 97.4 16.0✓
258.9 19.5✓
278.4 35.5 — 4.03✓

80.3 ✓ — 3.98✓
05 12 99.2 18.9✓
2~~8~~5 9.3 18.5✓
277.8 37.4 — 3.92✓

R.P.B. mean = − 4.00

349.0
09 00 8.8 19.8✓
171.5 15.7✓
~~2~~187.2 35.5✓ — 4.03✓

351.2 ✓ — 4.02✓
9 11 00 6.5 15.3
28 19 170.~~2~~2 20.4✓
9 07 05 190.6 35.7✓ — 4.02✓
5 −0 9
14 06 56 G.M.T.
5796.5881

Feb. 15, 1902

II

RWB

349.3

9 13 50 8.3 19.0

172.5 14.6

187.1 33.6 — 4.15

352.6 — 4.12

16 20 6.2 13.6

169.5 21.0

190.5 34.6 — 4.09

L.D.A. mean = -4.03

258.3

19 40 277.4 19.1

80.0 18.0

98.0 37.1 — 3.93

260.8 — 3.94

9 22 30 278.3 17.5

-7 2 20 80.3 19.1

9 18 05 99.4 36.6 — 3.96

5 - 0 9

14 17 56 G.M.T.

5796.5957

Feb. 15, 1902

~~III~~

L&a.

260.1

9 36 40 276.4 16.3

80.8 16.6

97.4 32.9 −4.20 ✓

✓

261.2 −4.18

38 00 278.0 16.8 ✓

~~180.4~~ 16.9

97.3 33.7 − 4.15 ✓

R&B mean = −4.22 ✓

171.6

42 10 186.3 14.7 ✓

350.2 16.4

9.6 31.1 − 4.32 ✓

170.1 −4.28 ✓

9 44 20 188.1 18.0 ✓

1 10 352.2 15.3 4.17 ✓

9 40 18 ~~64~~ 33.3 − ~~4.25~~

5 − 0 9 7.5

14 40 09 G.M.T. ~~Aba~~ ~~Further~~ observations

5796.6110 abandoned as evidently β Persei is at maximum

R.A. = 2 39 S Var B | S.T. = 7:40 | Sp. Wh. = −1.023 +

Ha 4:44 West | Dec = +40.5 | −0.8 C

Feb. 15, 1902.

~~Phot~~ T Hydrae wCb

8 48 * -7.5
8 03
45
11 15

10 20 t 1.5 var 3 u 12.32 / 12.32 / 12.32

Nova Persei wCb

Phot T. 9.5 cap.
3 24 +43.6
8 27
5 03

Left
147.8
10 42.0 213.2
319.9 < comp * dis
65.4
40.5 80.6
146.0 + 0.65

140.7
219.1 78.4 + 0.66
325.1 67.3
32.4 145.7 + 0.66
Mean = +0.60

Right
53.8
125.4 71.6
226.8 82.2
310.0 153.8 + 0.50

50.3
10 51.0 129.2 78.9 + 0.53
10 46.5 231.6 72.0
5 - 0.1 303.6 150.9 + 0.56
10 46.4 G.M.T.
5796.657*

Feb 15, 1902

Same Again

Right
51.8
10 53.0 123.6 71.8
225.6 86.2
311.8 158.0 + 0.42

47.3 +0.45
129.0 81.7
232.0 73.1
305.1 154.8 +0.48

~~Below~~
Left mean = + 0.57
326.1
30.2 64.1
139.5 77.6
217.1 141.7 + 0.74

319.1 +0.71
11 00.0 38.9 79.8
10 56.5 147.2 65.0
5 −0.1 212.2 144.8 +0.68
15 57.4 P.A. = 77.5 Var B Final mean = +0.59
5796.665 H.A. = +5:35 West
7.25
Dec. +43.4 magn = 7.84
S.T. = 8:57
S' phot 0.5 a + ~~1.5~~ B + 2.1 C L. P.

Feb. 17, 1902 (Monday)

Ff 3451	Ball, 103
19 09 39.2	21 05 05

Feb. 18 1902 (Tuesday)

8.45 clearer but some cloudy

BD Cl 182   Ball 103

8 48 50.6   8 48 00

U Camelop   W Ob.

~~3 28 + 62~~

Phot R   3 30 + 62.5

cloudy   7 00

3 30

R 073

174.3 < vardis

9 18.0   228.8   54.5 :

~~8~~1.2   45.4

46.6   99.9 − 1.66 ✓

− 1.60 ✓

1~~6~~78.4

224.5   46.1 ✓

352.8   58.3 ✓

51.1   104.4 − 1.55

L.O.A.   mean = − 1.59

82.2

140.8   58.6 ✓

268.3 Clds.   46.8 ✓

315.1   105.4 − 1.53 ✓

89.2   − 1.58 ✓

9 30.0   134.2   45.0 ✓

9 24.0   263.3   56.2 ✓

5 − 0.8   319.5   101.2 − 1.63

14 23.2 G.M.T.

0 799. 599

♄ Feb. 18, 1902

Same again

L.O.A.

~~84.0~~

~~9 32.0 142.3~~

82.3

9 344 141.7 59.4

268.8 45.5

314.3 104.9 — 1.54

86.7 — 1.56

133.5 46.8

263.3 56.5

319.8 103.3 — 1.58

ROB Mean = — 1.54

353.6 178.0

~~49.4~~ 224.6 466

~~176.2~~ 351.6 56.9

225.0 48.5 103.5 - 1.57

Clds

B 173.5 clok. - 1.52

~~9 4~~ 231.5 58.0

9 520 356.0 49.5 - 1.47

9 432 45.5 107.5

L.B.

5- 0.8 P.A. = 133.0 Ver B Final Mean = - 1.56

14 424 Dec. = +62.4 = 9.18

5799.612 S.T. = 8:08 magn = 7.62

Ha. = +4 37 West

1010 Clock crazy when o growing worse, impossible to continue.

Feb 19, 1902 (Wednesday)

B&C 1182 Ball 103
7 05 02.0 7 04 00

o Ceti w Ob.

Phot W
~~BB~~ Below
260.6 < var dis.
7 33.0 331.4 70.8 ✓
78.0 76.2 ✓
154.2 147.0 ✓ −0.63 ✓

257.8 −0.64 ✓
334.6 76.8 ✓
80.3 69.3 ✓
149.6 146.1 −0.65 ✓
Above mean = −0.58 ✓
169.2
241.2 72.0
343.8 82.5
66.3 154.5 −0.49 ✓

166.0
7 43.0 245.8 79.8 ✓ −0.52 ✓
7 38.0 348.9 71.1
5 −1.0 60.0 150.9 ✓ −0.56
12 37.0 G.M.T.
5800.526

Feb. 19, 1902.

Same Again

Above

166.2

7 45.0 237.3 71.1

343.0 82.1

65.1 153.2 — 0.51 ✓

162.3 − 0.54 ✓

241.5 79.2 ✓

347.1 71.1

58.2 150.3 − 0.57 ✓

mean = − 0.62 ✓

Below

79.4

146.9 67.5 ✓

253.6 73.4

329.7 140.9 − 0.76 ✓

− 0.70 ✓

72.9

7 53.0 148.7 75.8

7 49.0 256.5 70.6

5 −1.0 ~~326.7~~ 146.4 − 0.65 ✓

12 48.0 327.1

5 800. 533

~~PA = 47.6 Ven~~

~~HA~~

~~S.T.~~

Dec.

~~Final mean = − 0.60~~

~~C.S. = 9.19~~

~~Magn = 8.59~~

Feb. 19, 1902

Same Again

Below

73.9

8 02.0 146.1 72.2

255.8 70.4

326.2 142.6 — 0.72

74.7

148.5 73.8 — 0.73

256.5 68.1

324.6 141.9 — 0.74

Above Mean = -0.65

345.2

55.0 69.8

160.7 77.9

238.6 147.7 — 0.62

340.6 — 0.57

8 08.0 58.4 77.8

8 05.0 161.3 75.0

5 7.0 236.3 152.8 — 0.52

13 04.0 G.M.T.

5800. 5144

P.A. - 47.8 Ver B

S.T. = 6:19

Ha = 4:08 West

Dec = -3.6

Barometer a little low, considerable wind & seeing a ~~little~~ ~~poor~~, but care exercised & obs. considered good.

Feb. 19 1902

X Cancri

Phot T.   9c5 cap   w.Clk

Above

246.5 < var. dis.

8 45.4 290.9   44.4

63.2   50.9

114.1   95.3 — 1.77 ✓

244.4

293.3   48.9   — 1.79 ✓

67.3   44.9

112.2   93.8 — 181 ✓

Below   Mean = — 1.98 ✓

159.6

198.8   39.2

337.6   42.1

19.7   81.3   — 2.16 ✓

~~8~~   15~~8~~7.3

~~848~~   201.4   44.1   — 2.18 ✓

853.0   341.4   36.1

849.2   17.5   80.2 — 2.19 ✓

5-40

13 48.2 G.M.T.

1800.574

Feb. 19 1902.

Same Again

Below

161.2

8 35.0 197.8 36.6

337.5 43.3

20.8 79.9 — 2 20

157.5 — 2.16

200.9 43.4

340.1 39.5

19.6 82.9 — 2.11

Right Mean = — 2 00

67.9

110.7 42.8

244.9 48.3

~~Right~~ 91.1 — 1.88

293.2

— 1.84

63.9

9 04.0 114.8 50.9

119.0 247.9 43.7

8 59.5 291.6 94.6 — 1.79

5 — 10

13 585 G.M.T. Final mean = — 1.99

5800.582 P.a. = 198 Vert B

S.T. = 7:19

H.A. = ~~*~~ — 1 27 East

Dec. = + 17.8

SpWh = 1592, 583.1 C

Feb. 19, 1902

Phot 39 Eridani Wells

P.A. = 155° 4 8 – 10.6
Dist = 6" 7 45
Magns = 5.9 – 9.0 3 37
Abandoned Region too low & images too blurry

Σ 655 Lepor
Phot W 5 6 – 12.0 Wells
7 56
2 50
P.A. 340° Dist 13" Magns 4.5 – 9.2

Comp too faint in moonlight abandoned.

Σ 668 β Orionis
Phot 5 8 – 8 4 Wells
8 03
2 55

Feb. 19, 1902

Σ 668

Phot W — wclb.

~~Right~~

~~287.4~~

~~9 57.0~~ ~~291.2~~ 3.8"

~~104.6~~

~~1~~

105.1

10 01 112.2

. Abandoned seeing too poor.

Phot Σ 750 wclb

5 29 -4.4

8 15

2 46

Abandoned

Σ 919

Phot ~~W~~ 11 monoc. WClb

4 23 -6.9

8 18

1 55

P.A 320 Dist 7" Magns 5.0 & 5.~~4~~3

S.f. slightly the brighter (over)

Feb. 19, 1902

Σ 919

Phot R Wllb.

see prec. page

Above A. Fix light

150.6 < [illegible] Oil dome

10 14 241.4 90.8

329.1 92.0

62.1 182.8

176.2 + 0.07

151.2

242.8 91.6 + 0.04

332.1 88.8

680.9 180.4

179.6 + 0.01

Below B. mean = + 0.02

60.4

149.1

239.1 88.7

331.5 92.4

181.1

178.9 + 0.02

59.8

1020 148.7 89.4 + 0.01

238.9 90.5

10 19.5 329.4 179.9 − 0.00

5 − 1.0

15 18.5

Feb 19, 1902

Σ 982

Phot R   w Ob

6 48 +13.4
8 42
1 54

P.A. 170° Dist 6" Magns 7.4–7.7

Below

358.6 < bi dis.
10 35 380.6   32.0
186.7   24.0
210.7   56.0 – 3.02

357.8   – 2.86
32.9   35.1
180.4   29.2
209.6   64.3 – 270

Above   Mean = – 271

271.7
301.7   30.0
88.4   34.1
122.5   64.1 – 271

268.8
10 48 301.9   33.1 – 270
8 3
10 41.5 90.2   31.2
5 – 10 120.4   64.3 – 270
15 40.5 G.M.T.
5800.

Feb. 19. 1902
Σ 815
P.A. 130 Dist 29" Magns. 5.8–6.8
Phot R
~~Left~~
~~166~~
161.7 Lt. di
11 08 221.2 59.5
343.1 59.8
42.9 119.3 −1.21

164.0 −1.18
223.6 59.6
343.0 62.6
45.6 122.2 −1.14
Right Mean = −1.17
73.9
134.8 60.9
254.4 62.8
317.2 123.7 −1.11
75.3
134.2 58.9 −1.16
11 06 254.5 60.3
314.8 119.2 −1.21
11 03
5 − 1
16 02

L. P. P.

Feb. 20, 1902 (Thursday)

BOCl 182 Ball 103
7 05 10.0 7 04 0.5

o Ceti wClk
Phot W 2 12 -3.6
5 42
3 30
Too cloudy.

~~X~~ Cancri wClk
Phot T 8 48 +17.8
Full aperture 05 55
2 53
9 07
Above
248.6
8 004 291.3 42.7
65.1 46.6
111.7 89.3 - 1.93
245.0
291.6 46.6 - 1.92
67.8 43.4
111.2 90.0 - 1.91
Below Mean = -2.13
163.0
196.9 33.9
337.7 40.6
18.3 74.5 - 2.36
158.6
8 10.0 199.7 41.1 - 2.34
8 5.2 341.3 35.1
5 - 1.2 16.4 76.2 - 2.31
13 04.0 5801.544

Feb. 20, 1902

Same Again

Below

161.9 ✓

8 12.8 195.9 34.0

340.8 37.7

18.5 71.7 − 2.45 ✓

159.4 − 2.38 ✓

200.0 40.6 ✓

341.3 35.1 ✓

16.4 75.7 − 2.32 ✓

Above

Mean = −2.14 ✓

67.3

111.4 44.1

246.3 46.1

292.4 90.8 − 1.91 ✓

65.6 − 1.90 ✓

8 20.4 110.9 45.3

8 16.6 246.9 45.7

5 − 1.5 292.6 91.0 − 1.89 ✓

73 15.1 G M T.

5801.552* P.A-195 Ve B

Mean = −2.14

H.a. = −2′.12 East

Dec. +17.8

Sprol. 1.5 a 2.5 B & 3.1 C

S.T. = 6.38

Feb 20, 1902

β Persei w-Obs

Phot. T. Om cap.

R ~~E~~

350.0 (nardis

8 38 00 9.2 19.2

172.0 15.3

187.3 34.5 −410

351.6 −408

41 13 6.1 14.5

169.5 19.4

188.9 3~~4~~.9 −407

~~L~~

~~Left~~

~~187.~~

Mean = −398

258.8

44 42 280.3 21.5

81.4 17.0

98.4 38.5 385

260.0 −388

8 47 05 276.3 16.3

171 00 79.9 21.3

8 42 45 101.2 37.6 −391

5 − 1 10

13 41 35 G.M.T.

5801.5705

5801.3555

+0.2150

Feb. 20, 1902

~~II~~

Left

258.7
8 50 00 279.0 203
81.2 158
97.0 361 — 400 ✓

— 394 ✓
258.8
52 20 277.0 18.2 ✓
78.9 20.0 ✓
98.9 38.2 ✓ — 387 ✓

Right — Mean = — 401 ✓

170.5
55 20 189.1 18.6
351.6 15.1
6.7 33.7 — 415 ✓

171.4 — 408 ✓
8 57 20 188.6 17.2 ✓
15 00 350.6 18.6 ✓
8 53 45 9.2 35.8 ✓ — 402 ✓
5 -1 10
13 52 35 G.M.T.
5801.5782
5801.3555
+0.2227

Feb. 20, 1902.

III

Right
169.7
8 59 05 187.7 20.0
351.6 15.1
6.7 35.1 −4.06

−4.13

171.8
9 01 00 185.8 14.0
349.7 18.9
8.6 32.9 − 4.20

Mean = −4.12

Left
79.6
9 03 40 98.6 19.0
261.2 14.7
275.9 33.7 − 4.15

81.6 −4.12
9 06 25 98.2 16.6
10 10 259.4 18.2
9 02 32 277.6 34.8 − 4.08
5 − 1 10
14 01 22 G.M.T.
5801. 5843
5801. 35.5.5
+0.2288

Feb 29, 1902

IV

Left
80.2
9 11 55 98.9 18.7
266.6 16.6
277.2 35.3 − 4.04

90.7 − 3.98
14 00 98.7 18.0
258.8 19.2
278.0 37.2 − 3.93

Right Mean = − 4.07
351.7
16 45 8.9 17.8
171.6 15.3
186.9 33.1 − 4.19

− 4.16
351.0
9 18 40 6.9 15.9
21 20 171.1 18.2
9 15 20 189.3 34.1 − 4.12
5 − 1 10
14 14 10 G.M.T.
5801.5932
5801.3555
+ 0.2377

Feb. 20, 1902

V

Right
348.6
9 21 10 8.6 20.0
172.0 15.4
187.4 35.4 − 4.04

351.1 7
23 40 7.2 16.1 − 4.06
170.4 18.4
188.8 345 − 4.10

Left Mean = − 4.08
258.9
26 10 278.2 19.3
81.1 17.0
98.1 36.3 − 3.98

260.1 − 4.10
9 28 30 277.1 17.0
19 30 81.4 15.8
9 24 52 97.~~4~~2 32.8 − 4.21
5 − 1 10
14 23 42 P.a = 59.0 Vert B
5801.5998ᵈ H.a = +4.47 West
5801.3555 Da = +40.3
+0.2443 ST = 7.48
Spwh = −2.4a − 1.5B − 0.9C

Feb. 20, 1902

Σ_3^{II} w-Obs

Phot R

5 10 +40
8 20
3 10

PA 15° Dist 2'3 Magns 5.2-9.1

This star does not seem to agree in distance with catalogue in working book. It's companion is also fainter will however measure it & look it up by day

Left
98.6 <bi dis
10 18 110.9 Clds rather thick 12.3
281.4 9.2
~~290.6~~ 21.5 - 5.13
100.4
109.2 8.8 - 5.05
276.8 14.4
291.2 23.2 - 4.97
Right mean = - 4.84
7.7
23.7 16.0
190.3 11.0
201.3 27.0 - 4.63
9.8
10 25 20.8 11.0 - 4.64
10 21.5 186.2 16.1
5 -1.2
15 20.3 202.3 27.1 - 4.64 OVER

Feb. 20, 1902

Meas. of this star extremely diff. on account of clds. moonlight & faintness of companion

~~Phot Σ 131 WOb~~

~~1 25 +60~~

Phot R Σ 471 ε Persei

3 50 +39.6 WOb

8 56

5 00

P.A 20° Dist 8" Magns 31 - 8.3

above

188.5 Zero dis

10 40 199.6 11.1

8.2 12.3

20.5 23.4 — 4.95

188.4

201.2 12.8 — 4.84

8.2 12.9

21.1 25.7 — 4.74

Below Mean = - 4.76

98.0

110.2 12.2

278.8 11.8

290.6 24.0 — 4.89

98.1 4.69

10 50 112.0 13.9

10 45 277.4 14.9

5 -1 292.3 28.8 — 4.49

15 44

Feb. 20, 1902

Last settings especially diff & a little uncertain, owing to increasing cloudiness & bright moonlight.

10 55 Too cloudy to continue

F 3451 Ball 103
17 25 24.9 +Z 21 09 0.0

Feb. 23, 1902 (Sunday)

Reset B&C & F 3451

B&C 1182	Ball 103
21 01 00.8	21 01 00.5
F 3451	F 1327
19 36 00.8	19 36 01.0
F 3451	Ball 103
19 37 18.0	21 08 00.5

Feb. 24, 1902 (Monday)

B&C 1182 Ball 603
7 05 04.5 7 05 00
Phot W o Ceti w 06.
2 12 − 3.6
5 5 2
3 40

Below
79.1 < var dis. ✓
7 26.4 146.4 67.3 ✓
256.4 73.6 ✓
330.0 140.9 ✓ − 0.76 ✓

77.2 − 0.82 ✓
146.7 clds. 69.5 ✓
261.1 star oft. 64.8 ✓ ✓
325.9 134.3 ✓ − 0.89
Above mean = − 0.72 ✓
346.4
55.1 68.7 ✓
160.8 79.7 ✓
240.5 148.4 ✓ − 0.61 ✓

342.0 − 0.63 ✓
7 33.0 57.2 75.2 ✓
5 9.4 163.7 71.1 ✓
7 29.7 234.8 146.3 − 0.65 ✓
5 − 0.1
12 28.6 G.M.T.
5805.520

Feb 24, 1902.

Same Again.

Clds thicker

Above stars about gone

344.3 " gone

7 43.5 54.3 70.0

163.6 73.4

237.0 143.4 − 0.71

340.1 − 0.67

57.8 77.7

165.0 moreclds. 69.7

234.7 147.4 − 0.63

Below Mean = − 0.74

258.9 cldsthick. stars gone

324.3 cld 63.4

73.3 72.7

146.0 138.1 − 0.81

Clds.

253.5 − 0.80

7 57.0 324.3 70.8

7 50.2 73.6 69.0

5 − 0.2 142.6 139.8 − 0.78

12 50.1 × G.M.T. Final Mean = − 0.73

5 805.535 P.A. = 48 Pr D 9.19

Dec. = −36 Magn = 8.46

S.T. = 6:37

H.A. = +4 23 West

Feb. 24, 1902

Phot. T. X Cannon wells
95 caps used

Above
247.7 < rad dis.
8 30.4 291.2 43.5
63.2 52.6
115.8 96.1 − 1.75

244.7 − 1.84
295.9 51.2
70.1 37.7
107.8 88.9 − 1.94

Below mean = − 1.93
158.8
200.4 41.6
334.0 42.0
146.0 83.6 − 2.09

154.1 − 2.02
8 38.4 203.2 49.1
8 34.4 339.8 39.0
v = 0.1 18.8 88.1 − 1.96
13 34.3 G.M.T.
v 805.565

Feb. 24, 1902

Same Again.

Below
160.8
8 40.0 199.1 38.3
330.8 46.7 — 2.05
23.5 85.0

155.1 — 2.02
203.3 48.2
340.0 39.2
19.2 87.4 — 1.98

Above mean = −1.92
67.4
111.5 44.1
245.6 47.8
293.4 ~~91.9~~ — 186
91.9

63.7 −1.82
8 49.0 115.2 51.5
8 44.5 247.20 43.8
5 −0.1 291.~~4~~ 95.3 — 1.77
13 44.4 G.M.Time. Final mean = −1.92
P.a = 196 Ver B
5805.572 Δa = −1.27 East
~~Δd~~, Dec. = +17.7
Sd T. = 7.25
S/p Wh = 1.5 a, 2.5 B 3.1 C

Feb 24, 1902.

Rather cloudy.

Σ 24' wells

Phot 1 3 4 +39.2

7 50

---

5 14

6 46

9 26 Clds thick no stars visible in telescope in this region

Σ 1596 wells

~~Lz~~ 11 58 +22.2

8 03

~~05~~

3 55

8 05

9 37 No stars visible in large tel. or finder

9 40 clds thick everywhere no chance for anything farther.

Ledgered

Plotted

Posted.

Feb. 2~~7~~6, 1902 (Wednesday)

F 34 51	Ball 10 3
19 44 03.3	21 03 00
B & C	Ball 10 3
21 06 10.0	21 05 00

Feb. 27, 1902 (Thursday)

B&C 1182 Ball 103

7 06 19.5 7 05 00

Phot abs 0 cats W clds
2 12 −36
6 18
4 06

Below

~~257.7~~ < var dis
~~7 40.8~~ ~~313.9~~ ~~62.2~~
~~66.5~~ ~~73.8~~
140.3 clds 136.0

248.8
7 47.0 319.7 70.9
69.4 66.9
136.3 137.8 − 0.82
~~Above~~ ~~mean = −0.~~
237.4 64.4 −0.86
315.8 69.5
70.0 133.9 − 0.90
139.5 mean = − 0.91

Above
159.6 67.7
227.3 63.3
339.3 stars ft 131.0 − 0.96
(42.6 clds thicker; stars gone −0.96
162.2
7 56.0 228.4 62.2
100.0 338.4 69.4
7 51.5
5 −1.3 47.8 131.6 − 0.95
12 50.2 G.M.T.

Feb. 27, 1902

Same Again

Above
159.5
8 00.0 227.9 68.4
343.2 60.4
43.6 128.8 − 1.00

163.2
224.6 Haze thicker 61.4 − 0.96
336.9 71.4
48.3 132.8 − 0.92

Below Mean = − 0.92
67.2
139.3 72.1
253.6 60.7
314.3 132.8 − 0.92

69.3 − 0.88
8 06.0 134.1 64.8
8 03.0 247.8 71.3
5 −1.3 339.1 136.1 − 0.85
13 01.7 G.M.T. Final Mean = −0.92
√808.543 S.T. = ~~[illegible]~~ 6.56 9.19
Ha = +44.42 8.27
Pa = 48.6 Ver B
Dec − 3.6

Feb. 27 1902

X Cancri w Olds

Phot I.
8 48
7 18 9.5 cap
1 30
10 30

Above
64.7 {vards
8 45.0 112.3 47.6 ✓
243.6 51.6 ✓
295.2 99.2 − 1.68 ✓

60.0 − 1.69 ✓
113.2 53.2 ✓
248.3 44.9 ✓
293.2 98.1 − 1.70 ✓

Below mean = − 1.88 ✓
339.4
19.7 40.3 ✓
156.4 44.8
201.2 85.1 ✓ − 2.00 ✓

335.8 − 2.06 ✓
8 55.0 22.5 46.7
8 50.0 159.7 38.0 ✓
5 −1.3 197.7 84.7 ✓ − 2.06 ✓
13 48.7x G.M.T.
5808.576x

Feb 27, 1902

Saturn Again

Below
339.9
8 58.0 19.9 40.0 ✓
157.4 45.0 ✓
202.4 85.0 ✓ # − 2.01 ✓

335.7
23.0 47.3 ✓ − 2.04 ✓
159.0 38.5 ✓
197.5 85.8 ✓ − 2.03 ✓
Above
Mean = − 1.87 ✓
247.8
294.0 46.2 ✓
60.9 53.1 ✓
114.0 99.3 ✓ − 1.67 ✓

243.0 ✓ − 1.70 ✓
9 06.6 294.9 51.9 ✓
66.0 45.2
9 02.3 111.2 97.1 ✓ − 1.73 ✓
5 − 1.3
Final Mean = − 1.88
14 01.0 h m
5 08. sA
TPa = 19.5 Ver B
H.A. = − 0.3 East
Dec. = + 17.8
S.T. = 8.08
S'p.wh. = 1.5 a, 2.5 B & 3.1 C

Feb. 27, 1902

R Bootis no obs

14 26 +27.2
8 36
5 50
6 10

12.~~46~~
12.23
12.34

10 10 e 2 var u t

Night very poor - obs diff & a ~~little~~ uncertain

~~#~~

~~R Gem. no obs~~

R Urs Min no obs

Phot T. 16 34 +72 9
9 09
7 25
4 35

Over

Feb. 27, 1902.

Phot T. R Ms Im Wells

Left

332.2 < compt dis

10 28.0 28.3 56.1

146.1 66.7

212.8 122.8 +1.13

326.8 +1.18

31.0 64.2

152.3 54.0

206.3 118.2 +1.23

Right. mean = +1.20

240.6

298.8 58.2

57.0 62.6

179.6 120.8 +1.18

239.3 +1.22

10 34.6 298.8 58.5

62.6 60.4 58.6

10 31.3^{+} 119.0 117.1 + 1.26

5 −1.3

15 30.0^{+} G.M.T.

5808.646^{+}

Feb. 27, 1902

Same Again

Right

239.5
10360 299.9 60.4
54.8 66.4
121.2 126.8 + 1.05

235.3 + 1.11
301.4 66.1
61.1 55.0
116.1 121.1 + 1.17

Left Mean = + 1.18
154.7
207.7 53.0
325.4 65.6
31.0 118.6 + 1.22

146.8 + 1.2~~8~~6
10422 212.2 65.4 ~~65.4~~
78.2 332.7 50.2 ~~49.6~~
1039.1 27.39 115.6 ~~1150~~ + 1.29
5-1.3 ~~m~~ t. Final Mean = + 1.19
1537.8 PA - 1K1 3 Vec KS
5808.651 S.T. 9:35
Ra = -7.03
Dec = +72.5
Shutr = 25 B + 35 C

Feb. 27, 1902

R Gem. Wells

~~Ab~~

6 57 +22.9
9 37
2 40

6 54 +24.5
9 44
2 50

6 54 22.3
9 48
2 54

7 02 +21.5
9 49
2 47

11 05 Abandoned

Ball 108
21 04 00

F 3451
19 48 59.0

Ledgered
Plotted
Posted.

March, 1, 1902 (Saturday)

Reset BOC1182

BOC1182 Ball103
6 59 38.5 7 00 00
R Ceti w Ob.
2 14 −0.5

although sky 6 04 — impossible to get this
is moderately 3 50 with slight fog in air it is
clear; yet on account of electric light reflection combined

Above O Ceti
~~Below~~
2 12 −36
339.0 6 32
7505 39.7 60.7 4 20
154.6 72.8
227.4 133.5 −0.90
3134.8
45.5 70.7 −0.91
158.0 61.9
219.9 132.6 −0.92
Below mean = −1.00
250.8
310.8 60.0
67.7 66.7
134.4 126.7 −1.03

249.2
7680 314.2 65.0 −1.08
7545 71.1 58.0
5+0.4 129.1 123.0 −1.13
12549 G.M.T. 5810.538*

March 1, 1902

Same Again

Below

253.1

8 00.0 311.7 58.6

69.2 63.5

13~~4~~2.7 122.1 −1.14

249.4

314.1 64.7 −1.10

69.4 62.0

121.4 126.7 −1.05

Above mean = 1.04

161.8

219.3 57.5

334.1 69.5

43.6 127.0 − 1.04

157.1 ~~1.00~~ 0.99

8 06.0 226.4 69.3

8 03.0 338.3 62.5

5 +0.4 40.8 131.8 −0.94

13 3.4 G.M.T. Final mean = −1.02

5 810. 5444 P.A. 49.5 Ver B

Dec. = −3.6 magn = 9.19

H.a. +4.52 West 8.17

S.T. 7:04

March 1, 1902

Phot T. X Cancri 20 Obs

8 48 +17.8
7 08
1 40
10 20

9.5 [illegible]

Above
177.1 < variation
8 34.0 221.1 44.0
347.0 59.6
46.6 103.6 − 1.57

−1.63

170.4
225.9 55.5
357.2 43.0
40.2 98.5 − 1.69

Below

Mean = − 1.82

89.0
126.1 37.1
264.1 47.3
311.4 84.4 − 2.07

84.3 − 2.02
8 41.4 133.0 48.7
75.4 268.7 39.6
8 37.7 308.3 88.3 − 1.96
5 +0.4
13 38.1 G.M.T.
5 810.568 ×

(over)

March 1, 1902
Same Again

Below
89.4
8 44.0 126.9 37.5
221.2 49.8
311.0 87.3 − 1.99

85.4
136.3 45.9 − 2.02
269.2 38.6
307.8 84.5
− 2.06

Above Mean = − 1.87
355.3
39.2 43.9
171.0 52.8
223.8 96.7 − 1.74

− 1.72

351.4
8 52.0 43.6 52.2
8 48.0 174.0 45.8
5 +0.4 219.8 98.0 − 1.70
13 48.4 R.A. 19.2 Vir B Final Mean = − 1.84
S.P. 10.575 H.A. − 1.54 East
S.T. ~~17.8~~ 7.53
Dec. +17.8
Sp Wh = 1.5 a, 2.5 B, 3.5 e

March 1, 1902

R Geminorum W Obs.

6 5 # + 24.5 ✓

8 16

1 22

9 50 w 3 var 2 x

13.12
12.99
13.06

T Virginis. W Obs.

12 9 -4.9

8 5 2

~~3 17~~

~~8 48~~

3 09 ✓

8 51

10 20 w 2.5 var 2.5 u

11.31
11.17
11.24

Sky became all cloudy after alore so ~~that~~ nothing could be ackomplished. Focus of telescope adjusted on a few low bright

11 00 stars that were visible

Ledgered, Plotted, Posted.

March 3, 1902 (Monday)

B & C   Ball 10

7 00 47.7   7 01 00

R Ceti   W Obs.

2 14 -0.3
6 04
3 50

12.15
12.36
12.20

7 34   g 1-5 var 2.5 2

Phot W o Ceti   W Obs

2 12 -3.6
6 32
4 20

Below
664
7 40.0 130.2   63.8
247.2   61.0
308.2   124.8 — 1.09
68.3
1269   58.6 ✓ -1.11
246.2   64.1 ✓
~~308.3~~ 310.3   122.7 ✓ — 1.13
Above   mean = -1.11
3353   66.8 ✓
421   58.6 ✓
157.3   125.4 ✓ — 1.08
217.9
337.0   -1.11
7 48.0   36.3   59.3 ✓
7 44.0   155.5   63.5
5 +0.2
12 44.2 GMT   219.0   122.8 — 1.14   5812.531

March 3, 1902

Same Again

Above

333.6

7 50.0 ~~4~~37.9 64.3

159.0 58.8

217.8 123.1 — 1.13

3~~7~~39.0

38.7 59.7 —1.14

156.8 62.5

219.3 122.2 —1.14

Below Mean = —1.12

244.3

310.8 66.5

68.3 60.6

128.9 127.1 — 1.04

— 1.10

7 58.0 248.6

7 54.0 306.6 58.0

5 40.4 67.6 63.2

12 54.4 130.8 121.2 — 1.16

5 812.537

Final Mean —1.12

P.A. = 47.0 V2 B 9.19

H.A. = +4.45 West Magn. 8.07

S.T. = 7.0 0

Dec. = —3.6

Mar. 3, 1902

Phot T X Cancri with

8 48 +17.8

7 28 9 5 cap

1 20

10 40

Above

354.5

8 44.0 39.0 44.5

170.0 53.8

223.8 98.3 − 1.70

353.0 − 1.74

44.0 51.0

174.1 44.1

218.2 95.1 − 1.78

Below mean − 1.88

267.2

308.8 41.6

86.2 46.0

132.2 87.6 − 1.98

264.5 − 2.01

8 57.0 310.0 45.5

87.4 40.0

8 47.5 95.0 127.4 85.5 − 2.04

5 +0.2

13 47.7 G.M.T.

5812.575

Mar. 3, 1902

Same Again

Below

268.5
8 53.4 307.3 38.8
84.9 46.5
131.4 85.3 − 2.04 ✓

263.8 −2.02 ✓
310.9 47.1
88.2 39.5 ✓
127.7 86.6 — 2.01

Above Mean = −1.88 ✓
174.7
217.5 42.8 ✓
353.1 52.7 ✓
45.8 95.5 ✓ — 1.77 ✓

169.4 −1.74 ✓
9 01.2 223.9 54.5
8 57.3 356.7 42.8
5 +0.2 39.5 97.3 −1.72 ✓
13 57.5 R.A. = 19.2 Var B Final Mean = −1.88
5 812.582 ~~Dist~~ Ha = − 0.46 East
S.T. = 8:00
Dec = +17.7
S/Wh = 15, 2.5 3.1 a, B & C.

March 3, 1902

Phot U Cephei Wells

Above
66.5 Grandis
9 17 35 149.2 82.7
255.1 65.9
321.0 148.6 = 0.60 ✓

74.3 -0.58 ✓
19 10 141.2 66.9
245.4 83.6 ✓
329.0 150.5 — 0.57
Below mean = — 0.42 ✓
331.3
21 33 61.0 89.7
161.0 74.9 ✓
235.9 164.6 — 0.29

341.5 — 0.25 ✓
9 23 26 54.2 72.7
81 44 148.6 96.2 ✓
9 20 26 244.8 168.9 — 0.21
5 40 12
14 20 38 G.M.T.
5812.5976*
5812.4384
+ 0.1592

March 31 1902

II

Below

333.8
9 25 12 65.4 91.6
160.7 76.0
236.7 167.6 − 0.24

−0.22
341.0
26 54 55.~~8~~6 74.6
148.8 94.5
243.3 169.1 − 0.20

above Mean = − −0.24
243.3
29 32 332.6 89.3
67.8 77.7
145.5 167.0 −0.25

−0.26
249.5
9 31 10 323.7 74.2
11 2 48 60.8 92.0
9 28 12 152.8 166.2 − 0.26
5 40 12
14 28 24 GMT
58 12.6031
58 12.4384
0.1647

Mar. 3, 1902

Above III

2444
9 32 47 333.6 89.2
70.1 77.6
147.7 166.8 − 0.25

250.0 − 0.24
34 23 326.2 76.2
62.6 91.4
154.0 167.6 − 0.24

Below Mean = − 0.14
150.1
37 00 245.4 95.3
338.0 81.7
60.5 177.0 − 0.06

156.2 − 0.04
9 38 30 238.9 82.7
22 40 330.0 96.7
9 35 40 67.7 179.4 − 0.01
5 40 12
14 35 52 Gr. M.T.
5812.6082
5812.4384
0.1698

Mar. 3, 1902

IV

Below

149.1

9 40 50 247.7 — 98.6

339.1 — 80.1

59.2 — 178.7 — −0.02 ✓

155.6

42 30 239.9 — 84.3 ✓ — +0.03 ✓

328.2 — 100.2

68.4 — 184.5

175.5 — +0.08 ✓

mean = +0.04

Above

57.5

45 15 156.7 — 99.2

245.4 — 83.6

329.0 — 182.8

177.2 — +0.05 ✓

64.2

9 47 00 1$\overset{5}{\cancel{4}}$0.8 — 86.6 — +0.05 ✓

15 35 238.3 — 96.3

9 43 54 334.6 — 182.9

5 00 12 — 177.1 — +0.05 ✓

14 44 06 G.M.T.

5812.6140

5812.4384

+0.1756

Mar. 3, 1902

V

above
57.6
9 48 53 158.2 100.6
245.1 85.4
330.5 186.0
174.0 +0.11 ✓

63.7
151.1 87.4 ✓ +0.10 ✓
10 45 239.3 97.0
336.3 184.4 +008 ✓
Below 175.6 Mean = +0.26 ✓
324.5
53 28 72.4 107.9
150.0 95.4
245.4 203.3 ✓ +0.43 ✓
156.7 ✓

332.3 +0.42
9 ~~56 05~~ 64.8 92.5
209 11 146.8 108.5 ✓
9 52 18 254.3 201.0 +0.40
5 +0 12 159.0
14 52 30 G.M.T.
5812.6198
5812.4384
+0.1814

March 3, 1902

VI

Below

322.4

9 58 26 71.7 109.3

149.0 94.7

243.7 204.0 +0.46

156.0

330.9 +0.58

10 00 55 66.6 95.7

141.0 112.8

253.8 208.5

151.5 +0.55

Above Mean = +0.46

236.1

10 03 08 338.4 103.3

59.3 96.7

156.0 199.0 + 0.36

161.0

240.1 +0.42

15 06 55 335.6 95.5

9 24 53.4 109.1

10 02 21 162.5 204.6 +0.47

5 40 12 P.A. = 16.0 verB 155.4

15 02 33 H.A. = +8:21 West

5812.6268 L.S.T. = 9:11

5812.4384 Dec. = +81.1

+0.1884 Sp. Wh. = 6.5B+72C + 5.8a.

Mar. 3, 1902

BAC 1182 Ball 103
10 20 ~~##~~ 48.0 10 21 00

Phot Σ 919 w Obs
6 23 − 6.9
9 38
3 16

T Virginis
12 7 −4.9
9 25
2 22
9 48

11.36
11.22
11.29

11 02 m 3 vor 20

~~P~~ F 3451 Ball 103
20 02 37.5 21 02 00

Ledgered Plotted Posted

Mar. 4, 1902 (Tuesday)

BD C 1182 Bull 103

7 03 59.4 7 04 00

o Ceti w Obs.

Phot w. 2 12 − 3.6

6 12

4 00

7 25 Abandoned; no stars visible in this region

Quite hazy everywhere

Phot T. X Cancri w Obs.

~~9.5 Cap used~~

8 48 +1.78

6 28

2 20

Above

175.4 < var. dis.

7 45.0 218.8

351.5

45.3

169.6

221.8

357.2

39.9 clouds

Below

89.7

126.8

261.0 clearer

314.2

82.5 cloudier

7 55.0 133.1 clouds about gone cld thick

12 50.0 267.8 stars gone

58 13.13 30.68

9 40

Full aperture

434

538

97.2 − 1.73

522 − 1.76

427

949 − 1.79

mean = − 1.82

391

532

923 − 1.84

− 1.88

50.6

39.0

89.6 − 1.92

Mar. 4, 1902

Clds thick Same Again

Below
8 27.0 268.5 clds
308.8 40.3
82.0 stars gone 50.3
132.3 " " 90.6 − 1.90

262.6 clds.
314.0 stars gone 51.4 − 1.90
87.2 39.5
126.7 90.9 − 1.89
Above clds. mean = − 1.79
177.8
~~222.7~~ 438
221.6 52.7
350.0 96.5 − 1.74
42.7 clds

− 1.68

~~16~~ 170.1 59.3
9 04.0 ~~226.9~~ 42.8
226.4 clds 102.1 − 1.61
91.0 355.6 clds.
8 45.5 38.4
5
13 45.5 PA = 20.1 VarB. Final mean = −1.80
ST = 8.18
5813.174 Dec = +17.7
HA = − 0.30 East
Sp Wh = # 1.5a 2.5B 3.1C

see next page for remark

Mar, 4, 1902

~~Both the~~ preceding graphs ~~taken through~~
continually varying clouds. ~~Stars~~
~~alternately~~ disappearing & re-appear-
ing and varying somewhat ~~relatively~~
~~in brightness~~ but all possible care ~~&~~
~~exercised~~ and ~~observations thought~~
to be fairly good. ~~Obs~~ Call observa-
~~tions 1/3 wt.~~

Σ 716 118 Tauri 2w Ob.
Phot K

5 21 +25.
8 31
3 10

PA 220° Dist 5" Magns. 5.8–6.6
clouds
Right & Above
~~0~~62.0
9 48 128.3 Lbz. dis 66.3
239.7 69.7
309.4 clds 136.0 −0.86
60.6
133.2 clds thicker 72.6 −0.77
238.0 71.9
309.9 144.5 −0.68
~~Left~~ Below mean = −0.72
330.5 clds thicker
42.7 72.2
148.6 76.7
225.3 148.9 −0.60
over −0.68
−0.76

Mar 4, 1902

Σ716 cont

330.2

10 00 42.2 72.0

9 54 151.5 68.9

14 54 G.M.T. 220.4 140.9 - 0.76

mean = —

Also measured with some difficulty through some clouds

Σ762 wCOb

Phot R ~~5 12 -2.7~~

~~9 12~~

~~14 00~~

5 32 -2.7

9 12

3 40

~~closest comp.~~

PA 90° Dist 13" Magns. = 4.2 - 7.3

Below closer comp.

269.5 < bt. dis

10 18 286.8

abandoned

too cloudy

Mar. 4, 1902

Σ 762 w–O6.

Phot R.

Meas. of 40" companion.

P.A 55° Dist 40" Magn 4.2–7.0

Below Bright & moon distant.

77.6

CO 21 112.4 clds thicker 34.8

260.7 29.1

289.8 63.9 – 2.72

81.5

108.7 27.2 –2.72

256.7 36.6

293.3 63.8 2.72

abov

345.7 Mean = – 2.69

23.7 38.0

171.9 clds 25.5

197.4 63.5 – 2.73

351.6

obs. 1/2 wt continually troubled by clouds

CO 34 17.7 clds 26.1

55 161.1 41.2 – 2.66

10 27.5 202.3 67.3

5

15 27.5 G.M.T. 2.60

Mar. 4, 1902

Experiments to determine value of slow motion screw.

11 00

A 3451	Ball 103
20 07 32.5	21 03 05

L. P.

Mar. 5, 1902 (Wednesday)

F 3451
X 2020 285

Ball 103
211205

Mar. 6, 1902 (Thursday)

BD C1182   Ball 103
7 03 51.1   7 03 00

β Persei   w Obs
Phot T. 3 00 +40.2 6-in cap.
6 20
Left & Above 3 20
188.7 < var
7 22 10 207.2   18.5
9.3   14.2
23.5   32.7 − 4.21 ✓

190.2   − 4.12 ✓
23 54 206.0   15.8 ✓
5.4   19.8 ✓ ✓
25.2   35.6 − 4.03
Right & Below   mean = − 4.08
98.1
26 50 ~~120~~, 119.6   21.5 ✓
280.9   13.9 ✓
294.8   35.4 ✓ − 4.04

100.9   − 4.04
7 28 56 114.6   13.7 ✓
21 50 277.8   21.6
7 25 28 299.4   35.3 − 4.04
5 − 0 51
12 24 37 G.M.T.

5815.5171
5812.8261
+2.6910 → A

March 6, 1902.

II

Right & Below

97.5
7 33 15 | 117.5 | 20.0
281.2 | 15.1
296.3 | 35.1 − 4.06

100.0 | | −4.03
35 48 | 115.3 | 15.3
279.0 | 20.7
299.7 | 36.0 − 4.00

Left & Above | | Mean = −4.01

~~7~~69
39 40 | 27.0 | 20.1
190.5 | 14.8
205.3 | 34.9 − 4.07

9.6 | | −3.99
7 41 47 | 26.2 | 16.6
30 30 | 187.6 | 20.9
208.0 | 37.5 − 3.91

7 37 38
5 0 51
12 36 47 G.M.T.
5815.5256
5812.8261
+2.6995

March 6, 1902.

III

L & a.

	7.1		
7 48 50	26.4	19.3 ✓	
	189.0	18.9 ✓	
	207.9	38.2 ✓	− 3.87 ✓
	7.1		− 3.78 ✓
.53 00	26.7	19.6 ✓	
	187.9	21.8 ✓	
	209.7	41.4 ✓	− 3.69 ✓
	Rt B		Mean = − 3.85 ✓
	278.0		
55 55	298.9	20.9 ✓	
	99.1	16.3 ✓	
	115.4	37.2 ✓	− 3.93 ✓
	280.4	✓	− 3.92 ✓
7 58 15	296.4	16.0	
16 00	96.8	21.6.	
7 54 00	118.4	37.6	− 391
5-0 51			
12 53 09	G.M.T.		

5815.5369

5812.8261

+2.7108

March 6, 1902

~~IIII~~

ROB

278.1

8 0445 297.6 19.5

100.0 15.1

115.1 34.6 − 4.09

280.0 −4.00

0745 296.4 16.7

96.4 20.9

117.3 37.6 − 3.91

Mean = − 3.93

LOA

187.8

0040 209.1 21.3

9.3 16.4

25.7 37.7 − 3.90

190.0 − 386

8 13 16 207.4 17.4

36 20 5.6 21.7

8 09 05 27.3 37.1 − 3.82

5 - 0 51

13 08 14+ G.M.T.

5815.5473

5812.8261

+ 2.7212

March 6, 1902

~~IV~~
V

	Lθa.		
	186.4		
8 21 40	208.0	21.6	
	8.8	16.7	
	25.5	383	– 3.86
	189.9		– 3.78
25 45	207.6	17.7	
	4.9	23.3	
	28.2	41.0	– 3.71
	RθB		Mean = – 3.84
	97.6		
29 05	119.6	22.0	
	2896	15.0	
	295.6	37.0	– 3.94
	100.8		– 3.89
8 31 20	~~115.8~~	15.5	
	116.3	23.3	
27 50	276.4	38.8	– 3.84
8 26 58	299.7		
5 -0 51			
13 26 07	R.M.T.		

5815.5598
5812.8261
+27337

March 6, 1902

~~VI~~

R.O.B.

97.2

8 44 30 129.6 22.4 ✓

278.9 16.9 ✓

295.8 39.3 ✓ — 3.81 ✓

99.5 — 3.76 ✓

48 15 116.4 16.9 ✓

276.3 24.0 ✓

300.3 40.9 ✓ — 3.72 ✓

L.&A. Mean = — 3.71 ✓

4.9

50 30 29.8 24.9 ✓

189.0 17.5 ✓

206.5 42.4 ✓ — 364 ✓

9.3 — 366 ✓

8 52 55 27.0 17.7 ✓

19 6 10 185.3 24.2 ✓

8 49 02 ~~210.2~~ ~~42.9~~ — 367 ✓

5 - 0 51 209.5 41.9

13 48 11 G.M.T.

5815.5751

5412.8261

+2.7490

March 6, 1902

VII

Lqa

~~4.6~~

~~9 00 25~~ ~~30.0~~ ~~25.4~~

189.0

9 03 50 207.4 18.4

5.2 24.0

29.2 42.4 − 3.64

185.3

−3.61

9 06 00 210.7 25.4

8 1 18.2

26.3 43.6 −3.58

RDB Mean = −3.70

96.2

9 08 50 120.3 24.1

279.3 16.5

295.8 40.6 − 3.74

99.8 − 3.80

9 10 45 114.0 14.2

29 25 275.2 24.2

9 07 21 299.4 38.4 − 3 86

5 − 0 51

14 06 30 G.M.T.

5815.5878

5812.8261

27617

Mar. 6, 1902

VIII

RDB

9 21 05 97.9
121.1 23.2 ✓
278.8 16.7 ✓
295.5 39.9 ✓ − 3.77 ✓

100.3 − 3.77 ✓
9 24 00 116.7 16.4 ✓
276.2 23.6 ✓
299.8 40.0 ✓ − 3.77 ✓

Mean = − 3.72 ✓

LDa
4.3
9 27 10 26.9 22.6 ✓
189.6 18.0 ✓
207.6 40.6 ✓ − 3.74

8.2 − 3.66 ✓
9 29 15 26.3 18.1
4 30 186.3 25.3
9 25 22 211.6 43.4 − 3.59 ✓
5 − 0 51
14 44 31 G.M.T.
5815.6004 ×
5742.8261
+ 2.7743

Mar. 6, 1902

IX

Left
~~20~~
185.~~4~~1
9 44 28 210.8   25.7
~~[illegible]~~   19.6
7.1   45.3   −3.49
26.7
188.7   −3.46
9 47 30 208.9   20.2
4.3   26.4
30.7   46.6   −3.43

Right   Mean = −3.53
96.3
9 51 30 119.3   23.0
277.1   19.0
296.1   42.0   −3.61

98.8   −3.60
9 54 00 117.7   18.9   ~~18.9~~
197 28 274.3   24.7   ~~27.4~~
~~301.7~~   43.6   ~~46.3~~   ~~−3.44~~   3.58
9 49 22 299.0
5 −0 51
14 48 31 G.M.T.
5815.6170
5814.8261
+ 2.7909

Mar. 6, 1902

X

Right

96.5

10 02 15 120.1 23.6✓

277.6 19.4

297.0 43.0 −3.61✓

98.9 −3.60✓

05 10 117.5 18.6✓

275.6 25.0✓

300.6 43.6✓ −3. 58✓

Mean = −3.48✓

Left

2.9

08 05 29.3 26.4✓

188.4 18.7

207.1 45.1 −3.36✓

6.7 −3.36✓

10 10 10 26.5 19.8✓

25 40 184.2 28.4

10 06 25 212.6 48.2 −3.35✓

5 −0 57

15 05 34 G.M.T.

5815.62897

5812.8261

2.8028

Mar. 6 1902

XI

Left

2.5

10 26 10 31.0 28.5

188.0 21.2

209.2 49.7 −3.28

~~8~~4.8 −3.28

29 05 28.3 23.5

185.4 26.5

211.9 50.0 −3.27

Right mean = −3.28

274.3

32 30 ~~27~~ 301.4 27.1

92.8 28.2

121.0 55.3 −3.04

273.3 −3.17

10 34 40 301.9 28.6

97.3 20.7

~~117.8~~ 49.3 −3.30

118.0

~~85~~

122 25

10 30 36

5 0 51

15 29 45 G.M.T.

5815.6457

5812.8261

+2.8196

The preceding series on β Persei, one fourth weight.

Mar. 6, 1902

XII

Right

276.5

10 45 00 297.5 21.0

95.3 26.5

121.8 47.5 −3.

272.4 −3.

47 50 301.8 29.4

96.6 21.8

118.4 51.2 −3.

mean = −3

Left

~~187.6~~

171.0

~~52 10 2??.0~~ ~~244~~

188.2

53 25 211.4 232

Reject part of last pair

Ground coned. not be finished

Prisms got of tracks at end of

11 05 last setting

F345 1 Ball 103

20 22 24.2 21 10 55

☞ See next page.

March 9. 1902 (Sunday)

F34 51	Ball 103
20 25 09.6	21 01 00
BD C 1182	Ball 103
21 04 47.5	21 02 00

Note relative to Observations (photometric) of β Persei on March 6, 1902. (on preceding pages).

In the observations of β Persei on March 6, (on preceding pages), the achromatic prisms gave trouble throughout the evening, and, after the last group, got off the track, so that the observations could not be continued. It is probable that the whole series of observations on this date were affected and are in error.

Good images could not be obtained throughout the evening, but they had decided wisps and rays, and the slightest motion of the achromatic prisms, in attempting to run them on the track, caused the images to skew and run abnormally in the field.

Both these last phenomena would seem to indicate that the prisms were askew and not in their normal position before they actually got off the track in the last partial group.

March 19, 1902 (Monday)

Ballcos 6 58 05 — BQCnt 2 7 00 57.0

Phot W — o Ceti 25 Obs.

2 12 −3.6
6 32
4 20

Above
339.6
7 21.0 243 — 44.7
157.0 — 50.1
207.1 — 94.8 — 1.79

337.9 — −1.78
27.5 — 49.6
159.4 — 45.7
205.1 — 95.3 — 1.77

Below — Mean = −1.74
248.6
296.3 — 47.7
66.0 — 53.0
119.0 — 100.7 — 164

247.1 — −1.69
7 27.0 298.1 — 51.0
7 24.0 69.2 — 45.8
5−3.0 115.0 — 96.8 — 1.74

12 21.0 G.M.T.
5819.515

March 10, 1902

Same Again

Below
249.7
7 29.2 293.5 43.8 ✓
66.7 52.9 ✓ ✓
179.6 96.7 ✓ − 1.74

246.0 ✓ −1.66 ✓
299.9 53.9
67.8 48.7 ✓
116.5 102.6 − 1.59 ✓

Above Mean = −1.67 ✓
158.4
206.2 47.8 ✓
336.9 51.3 ✓ ✓
28.2 99.1 ✓ − 1.68

156.1 ✓ −1.68 ✓
7 34.8 208.0 51.9
337.9 46.6
7 32.0 24.5 98.5 − 1.69 ✓
5 −3.0 P.A. = 47.3 Vert B
12 29.07 M.T. A.R. = +10.8 West
5819.520 Dec. = − 3.6
S.T. 7:16

9.19
1.70
7.49

March 10, 1902
Same Again

Below
158.7
7 39.4 205.0 46.3
337.7 48.6
~~206.3~~ 94.9 −1.79
26.3

158.7 −1.80
206.1 47.4
339.4 46.6
26.0 94.0 − 1.81

Below Mean = 1.73
68.5
117 49.2
246.9 51.1
298.0 100.3 − 1.65

68.2 −1.66
7 47.8 118.3 50.1
7 43.6 248.2 49.0
5 − 3.0 297.2 99.1 − 1.68
12 40.6 G.M.T. Final Mean = −1.71
8/9.528 9.19
7.48

see bottom of prev. page for circle readings etc.

Seeing a ~~little~~ poor & region getting rather low.

Mar. 10, 1902

ζ Cancri w Obs

Phot 7. 8 48 +17.8

7 34 95 cup.

1 14

10 46

About Right

175.3 { van dis

8 22.0 219.8 44.5

351.3 51.5

42.8 96.0 − 1.76

170.3 −1.76

222.3 52.0

355.7 43.8

39.5 95.8 − 1.76

Left & Below Mean = −1.89

88.3

127.9 39.6

265.0 46.3

311.3 85.9 − 2.03

84.5 − 2.02

8 30.0 132.3 47.8

8 26.0 268.5 38.6

5 −3.0 307.1 86.4 − 2.01

13 23.0 G.M.T.

5819.557

Mar. 10, 1902

Same Again

L & B.

87.7

8 33.4 128.3 40.6

264.3 47.0

311.3 87.6 — 1.98

86.0 — 2.03

131.7 44.7

268.2 39.2

307.4 83.9 — 2.08

R & G Mean = — 1.90

358.0

39.3 41.3

169.2 55.5

224.7 96.8 — 1.74

352.4 — 1.78

8 43.2 43.5 51.1

8 38.3 175.8 42.7

5 -3.0 218.5 93.8 — 1.81

13 35.3 G.M.T. Final Mean = — 1.90.

5819.566 Pa = 194 Ver B.

Ha = 0.37 East

S.T. = 8.11

Dec = +17.7

St Wh = 1.5 a: 2.5 B: 3C:

Mar. 10, 1902

T Persei. 2w Ob

Phot 2 2 8 +57.2
8 40
6 32

Above Comp * = old k

170.4 <vardis

9 37.0 2258 554

345.6 58.3

439 113.7 — 1.33

165.4 — 1.31

228.9 63.5

351.7 52.3

440 115.8 — 1.29

Below mean = — 1.44

82.4

1$\overset{3}{\cancel{8}}$0.7 48.0

259.9 55.2

315.1 103.2 — 1.58

80.5 — 1.58

9 45.8 1348 54.3

9 41.4 263.$\overset{8}{\cancel{9}}$ 48.6

5 - 30

14 38.4 G M T. 312.4 102.9 — 1.59

5819.610 x

March 19, 1902

Same Again

Below

83.3

948.3 131.7 48.4

259.2 56.6

315.8 105.0 −1.54

79.4 −1.56

134.3 54.9

264.7 48.0

312.7 102.9 −1.59

Above Mean = −1.46

351.2

43.1 51.9

167.1 60.8

227.9 112.7 −1.36

347.6 −1.36

9 57.0 47.4 59.8

9 19 5.3 172.1 53.1

9 52.6 225.2 112.9 −1.35

5 −3.0 Final Mean = −1.45

14 49.6 G.M.T.

5 19.618 R.A. = ~~9:14~~ 339.8 Ver B.

Spool = 26B803.VC

Dec. = +58.2

HA = +7:13 West

ST = 9:24

Mar. 10, 1902

10 26 40.0
27 09.0 29.0

27 19.0
27 47.5 28.5

28 18.5
28 47.5 29.0

28 57.5
29 26.0 28.5

29 39.5 28.5
30 08.0

R Aurigae
5 3 +53.0 w Ob.
10 18
5 15

11 04 0 3, 2 k 12.2^3
12.16
12.20

Expts. with ½ in. eyepiece on East Equatorial to determine the approx. value of the field in seconds of arc. and also the approx. value of one revolution of slow motion screw.

Mar 10 1902

~~B~~ Fl 3451 Bail 403
2032 05.8 21 04 0.5

L. P. P.

March, 11, 1902 (Tuesday)

Cloudy 7.00

B&C 1182 Ball 103

7 19 16.5 7 16 00

Phot T. X Cancri w Obs.

Full Aperture

8 48 +17 8

6 55

1 53

10 07

7 30 Clouds thick

8 00 All cloudy

8 30 All cloudy No stars visible.

Could not get X Cancri

Ft 3451 Ball 103

20 35 0.5 21 03 0.0

Mar. 12, 1902 (Wednesday)

Phot. β Persei W.C.

3 00 +4.006 in cap

7 15

4 15

Left ~~[illegible]~~

49

7 56 35 29.9 25.0

188.3 18.8

207.4 43.8 − 3.57

7.5 −3.47

7 58 20 28.4 20.9

184.4 27.0

211.4 47.9 − 3.37

Right mean = − 3.58

274.8

8 01 05 298.8 24.0

99.6 18.1

117.7 42.1 −3.65

278.8 −3.70

8 03 12 296.0 17.2

97.5 23.0

120.5 40.2 3.76

239 12

7 59 ~~142~~ 48

= 3 43

12 56 05 G.M.T.

5821.5390d

5821.4286

+0.1104

Mar. 12, 1902

II

Right

275.7
8 05 45 299.3
100.1
117.4

23.6
17.3
40.9 — 3.72

277.5
07 55 295.7
97.6
119.8

— 3.74

18.2
22.2
40.4 — 3.75

Left

Mean = −3.66

185.0
11 30 211.2
6.8
26.0

26.2
19.2
45.4 −3.49

189.0
8 14 35 208.0
39 45 4.5
8 09 56 27.5
5 = 343
1306 13 G.M.T.
5821.5459
5821.4286
+0.1173

−3.58

19.0
23.0
42.0 −3.66

Mar. 12, 1902

III

Left

185.6 ✓
8 21 15 209.0 23.4
6.9 18.6 ✓ ✓
25.5 42.0 ✓ − 3.66

188.9 ✓ −366 ✓
23 25 208.6 stars dimmer 19.7
5.0 22.4 ✓
27.4 42.1 ✓ − 36 ✓ ✓

Right mean = −374 ✓
96.5 ✓
26 05 118.6 22.1
278.4 17.6 ✓
296.0 39.7 ✓ − 379 ✓

99.0 −382 ✓
8 29 00 117.3 18.3 ✓
19 45 277.6 20.3 ✓
8 24 56 297.9 38.6 − 380 ✓
5 − 3 43
13 21 13 G.M.T.

√821.5564 ×
√821.4286
+.1278

Mar 12, 1902

IV

Right
99.2
8 39 20 120.4 21.2
278.7 16.0
294.7 37.2 — 3.93
100.6 −3.89
4 2 15 116.6 16.0
276.1 22.6
298.7 38.6 — 3.85

Left Mean = — 3.77
189.5
4 6 10 206.6 17.1
215.2 24.4
29.6 41.5 — 3.69

185.2 — 3.64
8 48 25 210.4 25.2
17 6 10 7.3 17.7
8 44 02 25.0 42.9 — 3.61
5 − 3 43
13 40 19 G.M.T.
5821.0696×
5821.4286
+0.1410

Mar. 12, 1902

V

Left

	189.5		
8 57 30	207.3	17.8	
	5.2	22.8	
	28.0	40.6	− 3.74
			− 3.71
	185.7		
9 00 05	210.0	24.3	
	7.4	17.4	
	24.8	41.7	− 3.68

Right

Mean = − 3.84

	99.1		
9 03 00	119.6	20.5	
	278.9	16.1	
	295.0	36.6	− 3.96
			− 3.98
	100.8		
9 05 25	116.1	15.3	
6 00	276.4	20.6	
9 01 30	297.0	35.9	− 4.01

5 − 3 43

13 57 47 G.M.T.

5821.5818+

5821.42~~62~~86

+0.1532

Mar. 12, 1902

~~VI~~

Right
100.0
9h 4 30 118.5 18.5
279.4 15.9
295.3 34.4 —

100.5
18 10 115.8 cld thick 15.3 —
2 . —
2 . —

Left
.
.
.
.

Mean = -

Over

Mar, 12, 1902

~~+8~~ 9 40 clouds thick VI

Right

280.1
1 0 07 10 296.4 16,3
101.0 14,0
115.0 30.3 —

280.8
09 25 295.3 14,5
98.3 17,1
115.4 31.6 —

Left Mean = —

187.9
1300 ~~207.2~~ 20.

Reject above partial results impossible to finish on account of clouds

10 1

2 So much variable haze ~~that~~ it is impossible to Continue of [illegible]

P.G. 585 Vn B
ST. 9:55
Ha = +6 56 West
Dec +40.3
Sp Wh — 1.5 B to 0.8 C

Mar 12/1902

Phot R Σ 982 38 Gem [illegible]
6 ~~37~~ 48 +13.4

10 04
3 16

P.A 170° Dist 6" Magns. 5.4 - 7.7
Right & above

71.9
10 41 104.3 < bi-dis 32.4
251.5 34.2
285.7 66.6 - 26~~7~~2

72.8 -2.62
102.8 30.0
250.3 36.5
286.8 66.5 - 262
L o B Mean = - 267
341.3
14.8 33.5
162.7 30.8
193.5 64.3 - 2.70

344.7 -2.72
10 51 114.3 29.6
161.1 33.9
10 46.0 195.0 63.5 - 2.73
5 - 37 F 3451 Ball (O)
15 42.3 G.M.T. 20 39 555 2104000
5821.

Mar. 12, 1902

B&C 1182	Bell 103
21 11 59.0	21 08 0.0

Ledgered, Plotted, Posted

Mar. 13, 1902. (Thursday)

Pl 3451	Ball 103
20 49 52.0	21 09 05
B OC 1182	Ball 103
21 14 02.5	21 10 05

March 14, 1902 — (Friday ~~Thursday~~)

~~Reset~~ BoC 1182

BoC 1182 Ball 103
7 00 06.0 7 00.00
o Ceti no Obs.
Phot w 2 12 − 3.6
6 54
4 42

Above
331.7 < var dis
7 18.4 18.0 46.3
151.9 39.2
191.1 85.5 − 2.04

332.2
11.7 39.5 − 2.14
150.7 39.2
189.9 78.7 − 2.23
Below Mean = − 2.11
241.6
282.8 41.2
59.2 42.6
101.8 83.8 − 2.08

240.1 − 2.08
7 22.8 283.5 43.4
61.8 40.7
7 20.6 102.5 84.1 − 2.08
5 −0.1
12 20.5 G.M.T.
5823.514

March 14, 1902

Same Again

Below

241.2
#7 24.4 281.9 40.7
61.3 41.0
102.3 81.7 — 2.14

−2.14
241.3
281.6 42.3
61.6 39.7
101.3 82.0 — 2.14

Above Mean = −2.16
153.8
190.4 36.6
330.7 41.7
+12.4 78.3 — 2.25

151.0 −2.20
7 30.0 191.2 40.2
331.6 41.3
7 27.2
5 0.1 12.9 ~~79.9~~ — 2.15
12 26.1 P.A. = 47.2 81.5 Final Mean = −2.14
582 3.518 H.A. = 5.12 9.19
S.T. = 7:24 Magn = 7.05
Dec = 3.6

Region ~~rather~~ moon rather bright, seeing somewhat poor but all possible care exercised & observation considered good

Mar. 14, 1902

Phot. X Cancri WGG

8 48 +17 8 95 cap
7 38
1 10
10 50

Oil down

Above + Right
174.6 < var dis.
8 08.0 216.3 41.7
348.7 58.0
~~46.7~~ 99.7 - 1.66
167.4
224.0 56.6 -1.67
357.0 42.6
39.6 99.2 - 1.68
Below + Left Mean = -1.80
88.4
127.8 39.4
262.2 49.1
311.4 88.5 - 1.95

81.6 -1.92
8 16.0 133.6 52.0
8 12.0 267.6 38.7
5 -0.1 306.3 90.7 - 1.90
13 11.9 G.M.T.
5823.550+

Mar. 14, 1902.

Same Again

L & R.

~~89.2~~ 88.7

8 21.0 126.8 38.1

263.4 46.7

310.1 84.8 – 206

AX. 2 –200

132.0 49.8

267.4 39.4

306.8 89.2 – 194

R & A Mean = –1.88

357.8

39.4 42.4

172.6 52.9

223.5 95.3 – 1.77

352.1 –1.74

8 31.0 43.6 51.5

8 26.0 175.5 45.5

5 0.1 ~~219.9~~ 221.0 97.0 –1.78

13 20.9 4h P.A. = 199.0 Ver B.

5823.560 HA = –0!17

Dec = +17.7

S.T. = 8:32

Sp wh = 1.5 a 2.5 B 3.1 C

Mar. 14, 1902

Same Again. IV

	R+B		
	357.8		
8 38.0	38.8	41.0	
	172.7	51.4	
	224.1	92.4	− 1.85
	352.7		− 1.84
	43.1	50.4	
	176.4	42.5	
	218.9	92.9	− 1.84
			Mean = − 1.90
	L+A		
	269.8		
	307.8	38.0	
	81.2	52.4	
	133.6	90.4	− 1.90
	269.0		− 1.95
8 48.0	301.1	49.1	
	89.0	37.7	
8 43.0	126.7	86.8	− 2.00
5 − 0.1		Weighted Mean =	− 1.87
13 42.9	R.M.T.		
5823.572			

see bottom of prev. page for P.A. etc.

Altitude very high in above settings of 3 groups on ζ Cancri seeing rather poor & obs. a little diff. But settings taken with [illegible] care & favorable

Mar 14, 1902 —

Seeing better & images improved in last 2 groups. First group 1/2 wt. last 2 full weight

~~[illegible]~~ R Leporis w O b

6 49 +55.0

9 05

2 16

9 45 r 3, 1 k

13.10

13.03

13.06

R Comae w O b

11 53 +20.2

9 33

2 20

9 40

10 18 x 3 var 14.05

~~10 14~~ Var. ~~the~~ is ~~consider~~ some little fainter than a night is not good enough to explain sequence

Var seen ~~at intervals~~

~~Obs~~ telescope pointing east ~~there~~ ~~to~~ taken a line from b to double above ~~there is a star~~ in about the same R.A. as ~~the~~ var. & a little more ~~to north of this line than var is to the south~~

x Call this additional star provisionally star x. a star slightly brighter than it ✓ precedes a little & a little north.

Latter ~~star~~ w. Est = u 4 w, w 4 x ~~[illegible]~~

a fainter star than x cannot be readily found due to moonlight & seeing.

Mar. 1st, 1902

R Urs. Min. 20 Ob.

Phot T. 16 34 + 72.9
10 04
6 30
√ 30

Right
349.5 < Comp ~~x~~ dis
10 34.4 47.1
164.8 57.6
229.1 64.3
345.8 121.9 + 1.15
49.9 64.1 + 1.17
169.3 56.1
225.4 120.2 + 1.19
Left Mean = + 1.26
262.6
311.2 48.6
75.2 62.5
137.7 111.1 + 1.39

256.2 + 1.36
10 42.8 319.2 63.0
10 38.6 81.6 50.2
5 − 0.1 131.8 113.2 + 1.34
15 38.5 G.M.T.
5823.652

March 14, 1902

Same Again.

Left

262.8 ✓
10 46.0 312.2 49.4
71.6 66.6
138.2 117.0 + 1.26 ✓

258.6 + 1.33 ✓
319.0 60.4 ✓
81.3 50.2 ✓
131.5 110.6 ✓ + 1.48

Right mean = + 1.24 ✓
170.7
227.8 57.1 ✓
34.5 65.2
48.7 122.3 + 1.14 ✓

163.4 + 1.16 ✓
10 54.2 230.0 66.6 ✓
10 50.1 350.0 54.2 ✓
5 - 0.1 44.2 120.8 + 1.18
15 50.0 P.a. = 321.4 V er B Final mean = + 1.25 ✓
5823.660 H.a. = -5:52 East
S.T. = ~~17~~ 10:41
Dec. = +72.8
Sp.Ch. = 2 5 B 3: 5 C

Mar. 15, 1902 (Saturday)

B&C 1182 Ball cos
6 46 17.5 6 46 00

β Persei Wells

L&A. Phot T 6 in cap

187.9
7 00 17 208.3 20.4
9.2 15.2
24.4 35.6 − 403
+

189.6 − 3.98
02 40 206.8 17.2
5.7 20.0
25.7 37.2 − 393

R.D.B. Mean = − 4.02
98.8
05 48 117.8 19.0
280.3 14.9
295.2 33.9 − 4.13

− 406
100.2
7 07 45 115.9 15.7
16 30 277.8 20.4
7 04 08 298.2 36.1 − 400
5 − 0 18
12 03 50 G.M.T.
5824.5027
5824.2961
+0.2066

Mar. 15, 1902

II

ROB
98.5
7 1400 118.0 19.5 ✓
179.5 15.5
295.0 35.0 ✓ – 4.06 ✓

– 4.04 ✓
100.3
16 42 115.7 15.4 ✓
277.9 20.5 ✓ ✓
298.4 35.9 ✓ – 4.01

LOA Mean = – 4.00 ✓
4.9
19 50 25.3 20.4
189.9 16.0
205.9 36.4 ✓ – 3.98 ✓

– 3.96 ✓
8.5
7 24 05 25.5 17.0 ✓
~~22.0~~ ✓
34 37 188.4 20.1
7 18 39 208.~~8~~5 37.1 ✓ – 3.93 ✓
5 – 0 18
12 18 21 G.M.T.

5824.5129
5824.2961
+0.2167

Mar. 15, 1902

III

L & A

8.0
7 33 30 24.8 16.8 ✓
189.0 16.4 ✓
205.4 33.2 −4.17 ✓

8.8
35 40 25.1 16.3 ✓ −4.04 ✓
187.6 21.0 ✓
208.6 37.3 ✓ −3.92 ✓

R & B mean = −4.08 ✓
279.5
39 30 297.8 18.3 ✓
100.3 14.7 ✓
115.0 33.0 ✓ −4.19 ✓

280.8 −4.11 ✓
7 41 40 295.6 14.8 ✓
30 20 97.1 20.8
7 37 35 117.9 35.6 −4.03 ✓
5 − 0 18
12 37 17 G.M.T.
5824.5259
5824.2961
+0.2298

Mar. 15, 1902

IV

RVB
279.5
7 52 35 296.6 17.1
100.0 15.5
115.5 32.6 — 4.21

281.0
55 15 296.3 15.3 — 4.14
97.7 19.6
117.3 34.9 — 4.07
RDa.
187.9 Mean = — 4.17
58 35 207.3 ~~2~~19.4
8.7 15.5
24.2 34.9 — 4.07

190.0 — 4.08
8 01 20 205.4 15.4
27 45 6.4 ~~18.7~~
7 56 56 25.4 34.4 — 4.10
5 — 0 18
3 56 38 G.M.T.
5824.5394 ~~P~~
5824.2961
+0.2433

Mar. 15, 1902

V

L P a
188.5
8 17 05 207.5 19.0
9.3 16.0
25.3 35.0 − 4.06

190.0 − 4.08
8 21 00 206.3 16.3
6.8 18.4
25.2 34.7 − 4.09

RPB Mean = − 4.12
97.7
24 45 116.4 18.7
280.6 14.8
295.4 33.5 − 4.16

100.7 − 4.15
8 26 10 115.1 14.4
8 24 19 00 278.8 19.4
45 ~~297.8~~ 33.8 − 4.14
5 − 0 18
298.2
113 24 27
PA 239.5 VwB
08 24. 5586
08 24. 2961
+ 0.2625
Ha + 5.16
S.T. 8.16
Dec. + 4 03
Sp. wh. = − 2.4a − 1.5B − 0.8C

Mar. 15, 1902

Phot T Nova Persei w Ob

9. v cap

3 24 +43.6
8 v 4
v 30

~~[illegible]~~ Left
75.7 ← comp + obs
9 14.0 136.8 61.1✓
258.3 65.3✓
317.6 126.4✓ + 1.05✓

77.1 + 1.10✓
140.9 63.8✓
208.0 57.8✓
315.8 121.6✓ + 1.16✓
Right Mean = + 0.98✓
348.5
47.0 58.5✓
156.2 79.1✓
235.3 137.6✓ + 0.82✓

341.6 + 0.86✓
9 21.0 52.6 71.0✓
35.0 165.6 62.3✓
9 17.5 227.9 133.3 + 0.91✓
5 - 0.3
14 17.2 G.M.T.
5824.59

March 15, 1902

Right
347.2
9 23.4 — 47.8 — 60.6 ✓
158.4 — 76.6 ✓
235.0 — 137.2 ✓ + 0.83 ✓

341.5 — +0.84 ✓
54.4 — 72.9 ✓
164.8 — 62.8 ✓
227.6 — 135.7 ✓ + 0.86 ✓

Left — mean = +0.98 ✓
260.8
314.9 — 54.1 ✓
72.8 — 68.3 ✓
141.1 — 122.4 + 1.14 ✓

252.7 — +1.12 ✓
9 30.8 — 320.2 — 67.5 ✓
77.7 — 56.7 ✓
9 26.9 — 134.4 — 124.2 + 1.10

5 - 0.3 — +0.98
14 23.6 G.M.T. — 7.25
5824.600 — P.A. = 76.2 Vel B — Magn. 8.23
H.A. = +6:02
S.T. = 9:28
Dec = +43.6
Spwh = 0.5a, 1.5B, 2.1C

Mar 15, 1902

γ Virginis w Ob

12 24 -4.2
9 44
2 40
9 20

9 50 Too cloudy

Σ982 38 Gem w Ob

Phot R 6 48 +13.4
9 58
3 10

10 00 Clouds rather thick & over whole sky

abt P.A 160 Dist 6" Magns 5.2 - 7.5

56.8 < bedr

10 16 92.3
238.8
271.3
62.5
89.8
243.6
272.3
Below
328.8
1.6
146.7
179.4
328.6

10 24 359.9 clds thicker
10 20 149.2
58 24 179.8 taken through more or less ~~passing~~ cld

35.5
32.5
68.0 - 2.56"

- 2.79"

27.3
28.7
56.0 - 3.02"

mean = - 2.74"

32.8
32.7
65.5 - 2.66"

- 2.72"

31.3
30.6
61.9 - 2.79"

Clds at times somewhat dense

Mar 15, 1902

Y Virginis : 20 Obs

12 24 −4.2
10 14

2 10
9 50

10 35 04,1 fp 11.47
11.45
11.46 ✓

R Boötis 20 Obs.

14 26 +27.3
10 26

4 00
8 00

10 45 Cldy

11 00 Too cloudy to get R Bootis

Mar. 16, 1902 (Sunday)

A 3451	Ball 103
20 59 40.0	21 08 05

Ledgered, Plotted, Posted,

Mar. 18, 1902 (Tuesday)

B D C 1182 Ball 103

7 04 12.0 7 03 00

7 00 Cloudy Wells

Phot W ϑ Ceti

4 52 ^West^ – 3.6

7 N Cloudy

Below

243.3 < var dis

7 20.4 274.3 31.0

61.6 34.3

95.9 65.3 – 267

242.7 – 268

277.5 34.8

63.8 30.0

93.8 64.8 – 268

Above mean = – 2.70

153.3 clds thicker C.N. = 9.19

183.3 30.0 6.49 magn.

332.6 33.2

365.8 63.2 – 274

clds thicker

151.1 stars dimmer – 2.72

R.A. = 48.2 Var B

H.a. = +5:26

S.T. = 7:38

Dec. = – 3.6

7 31.6 186.3 35.2

7 26.0 335.3 29.0

5 –1.2 364.3 64.2 – 271

12 24.8 G.M. Time.

5827.517

Mar. 18, 1902.

Notes on e Ceti = Region rather low moon bright, ~~and~~ clouds came somewhat suddenly overspreading the whole sky from the east progressively towards the west. Much wind also and seeing a little blurry. Comparison star rather faint in large telescope and somewhat fainter in photometer. The clouds gradually became denser during the above group and the observations progressively more difficult. But extreme care was exercised and observation is thought to be pretty good. A second group could not be taken as comp. * disappeared entirely after taking a first group. Although group taken is thought to be pretty good will call it 2/3 weight.

Σ 762 σ Orionis

5 32 −2.7
7 55
2 23

March 18, 1902

U. Cephei W Ok.

Phot T. 0 50 +81.1
8 05
7 15

8 10 clouds thick no stars visible in finder

8 20 clouds thicker

8 30 clds a little thinner
8 35 Clds thicker again impossible to do anything now with U Cephei

Above
~~8~~ 242.7 < var. dis.
8 41 13 333.8 clds ~~thicker~~. 91.1
63.8 87.8
151.6 clds thicker 178.9 − 0.02
242.0
47 57 330.6 88.6 + 0.05
59.0 95.6
154.6 184.2
Below 175.8 + 0.08 mean = +0.14
145.8
51 15 251.0 105.2
335.4 84.0
59.4 189.2
153.3 170.8 + 0.17
8 53 00 241.3 88.0 + 0.24 9.275742
19 3 25 323.3 107.9 9.3959
8 48 21 195.9 +0.1783
5 − 1 29 71.2 164.1 + 0.30
13 46 52 G.M.T.

Mar. 18, 1902

II

Below
143.6
8 5450 251.1 1075
334.5 875
62.0 195.0
165.0 + 0.29

153.6 + 0.34
3633 243.7 901
323.7 1100
73.7 200.1 + 0.38
159.9

Above mean = + 0.31
55.9
5858 157.6 Clds thicker 1017
243.7 928
336.5 194.5
165.5 + 0.27

60.0
9 0102 155.6 95.6 + 0.28
30 23 237.4 1001
337.5 195.7
58 36 164.3 + 0.30
δ = 1 31
13 57 05 G.M.T.

5827.5813*
5827.3959*
+0.1854

March 18, 1902

III

Above
540
9 04 24 162.0 108.0
241.9 92.3
334.2 200.3 + 0.39
159.7

+0.38

61.3
06 43 152.1 90.8
233.8 Clds thick 108.0
341.8 198.8 + 0.36
161.2

Below mean = + 0.50
322.6
08 53 72.7 110.1
148.2 98.6
246.8 208.7
151.3 + 0.55

329.8 +0.61
9 10 55 67.8 98.0
30 55 38.8 116.8
9 07 44 255.6 214.8 + 0.67
5 - 1 33 145.2
14 06 11 G.M.T.
5827.5876
5827.3959
+0.1917

Mar. 18, 1902

IV

Below
321.6
9 13 00 75.4 113.8
147.0 99.8
246.8 213.6
146.4 +0.65 ✓

327.8
14 45 68.8 101.0 ✓ +0.72 ✓
136.9 119.3 ✓
256.2 220.3 ✓ ✓
139.7 ✓ +0.78

Above
Mean = +0.65 ✓
231.6
17 10 343.6 112.0
59.1 96.7 ✓
155.8 208.7 ✓ +0.55 ✓
151.3 ✓

238.9 ✓
+0.58
9 19 05 337.7 98.8 ✓
24 00 52.2 112.4 ✓
9 16 00 164.6 211.2 ✓
5-1 35 148.8 +0.60 ✓
14 14 25 G.M. Time
5827.5933
5827.3959
+0.1974

Mar, 18, 1902

V

Above

233.2
9 21 40 343.2 110.0
54.4 102.7
157.1 212.7 + 0.63
147.3

238.6
2328 338.0 99.4 +0.53
50.4 1030
153.4 2024 +0.43
1576

Below mean = +0.68

139.3
2600 255.6 1163
325.4 1052
170.6 2215 +0.80
138.5

145.1 +0.83
9 28 17 251.5 106.4
17 25 320.5 118.0
78.5 224.4 +0.86
9 24 51 135.6
5-1 37 Pa. = 195.5 Ver. B
142-3 14 ec. = +81.2
5827.5994 Ha. = 8.37
5827.3959 S.T. = 9:31
+0.2035 Sp.Wh = 5.6 a 6.5 B 7.2 C
B & C 1 1/2 Ball 103
9 39 400 9 38 00

Mar. 18, 1902

R Bootis no Obs

14 26 +27 2
10 12

4 14
7 46

12.03 –
12.06 –
12.64 –

10 25 r 3 var 2 s

X Cancri no Obs

Phot T 9.5 eap

Left above

~~265.7 < var dis~~
~~10 51.0 309.4 43.4~~
~~82.8 48.0~~
~~130.8 91.4 –~~
~~265.1 –~~
~~312.6 47.5~~
~~85.0 44.0~~
129.0 91.5 –

R & B mean = –

Reject above by more

11 00 Cloudy & impossible to finish

(OVER)

Mar. 18, 1902

~~Storm Again~~

Fl 3451	Ball 103
21 02 31.0	21 03 0.0
B&C 182	Ball 103
21 06 44.2	21 05 00

Ledgered, Plotted, Posted.

Mar. 19, 1902 (Wednesday)

Ball 103	A 3451
21 05 0.5	21 08 26.0

Mar. 20, 1902. (Thursday)

A 3451	Ball 103
21 03 19.0	20 56 00
B&C 1182	Ball 103
21 00 39.8	20 59 00
~~21 01~~	~~21 00 05~~

Mar. 21, 1902 (Friday)

H 3451	Ball 103
21 14 15.6	+ 21 03 0.5
B & C 182	Ball 103
21 06 31.5	21 05 0.5

Mar 22, 1902 (Saturday)

B&C 1182 Ball 103

7 0.1 39.5 7 0.0 0.0

o ceti w Ob

7 12 - 3.6

7 18

5 06

7 02 Cloudy

7 12 Cloudy

Utterly impossible to get o ceti

7 30 Telescope pointing practically on the horizon

7 40 Thickly Cloudy everywhere

7 50 " " "

8 00 Broken

Σ 762 w Ob

Phot ~~R~~w 5 32 - 2.7

8 17

2 45

P.a. 70 Dist 0.7 Magn 4.1-7.0

see next page

Mar. 22, 1902.

Phot w Σ 762 wells

Below

58.8 ∠ bn dis

8 .13 91.2 32.4

240.8 29.6

270.4 62.0 − 2.79

60.3

90.6 30.3 − 280

239.8 30.8

270.6 61.1 − 282

Above Mean = − 2.81

329.8

360.0 30.2

149.8 30.0

179.8 60.2 − 2.85

329.4 − 2.82

8 19 360.0 30.6

149.1 31.6

8 16 180.7 62.2 − 2.78

5831.

March 22, 1902

Phot w Σ 762 wells

P.A. 95° Dist 12" Magns. 4.1 – 7.0

	Above		
	3307		
8 21.0	359.7	29.0 ✓	
	150.2	29.3 ✓	
	179.5	58.3 ✓	– 2.93 ✓
	329.5		– 2.92 ✓
	358.7	29.2 ✓	
	150.4	29.4 ✓	
	179.8	58.6 ✓	– 2.91 ✓
	Below		Mean = – 2.92 ✓
	240.8		
	269.3	28.5 ✓	
	60.3	29.0 ✓	
	89.3	57.5 ✓ ✓	– 2.96 ✓
	240.4		
8 26.0	269.3 clds.	28.9 ✓	– 2.93 ✓
8 23.5	59.4 clds.	30.0	
5 – 1.4	89.4	58.9	– 2.90 ✓
	clds.		
13 21.8			
5831.			

Mar. 22, 1902

~~∠ 762~~

Phot T. Nova Persei W-Clds

3 24 +43.6
9 14
5 50

3 24 +43.6
9 42
6 18

clouds

∠ 1833
14 16 − 7 11
10 03
4 13
7 47

→ clds.

10 00 N. Prec. comp. assumed to be slightly the brighter.
P.A. 160° Dist 5" 7.0 − 7.1

~~Clear Left~~

~~206.9~~

10 05 ~~300.6 < N Prec dis~~

10 08 — ~~clds thick~~

10 10 Stopped on double by clds

Mar 22, 1902

Nova Persei WClb

Phot T. 3 24 +43.6
10 24
7 00 9.5 cap used

~~Left~~
~~76.0 < comp * dis~~
~~10 42.0 14~~

Abandoned

Region ~~*~~ too low & stars varying relatively & faint

10 50 Clouds everywhere & too thick to continue

~~Right~~

Mar 23, 1902 (Sunday)

Fd 3451 Ball 103
21 16 05.5 20 57 05

B&C 1182 Ball 103
21 01 16.0 20 59 05

Ledgered Plotted Posted

Mar. 24, 1902 (Monday)

B & C 11 & 2 Ball 103
6 49 27.5 6 47 00

o Ceti W Obs Phot T.

6 55 clouds here now

7 10 clouds thicker here at the present time

7 13 " " " and growing cloudy everywhere

7 27 o Ceti has practically set
Clouds thick no chance for variable.

~~7 32 Nova Persei. 5m. clds. 1/2 wt~~
~~m 1, 3m~~

~~7 37 all thick ago~~

Nova Persei

7 37 Clouds thick everywhere

7 50 " " "

" " " neither moon
8 10 nor stars visible

9 15 clear now

Nova Persei

W Obs.

Phot T. 3 24
9 KA
6 24

~~J. S. Capwell~~

March 24, 1902

Left   Nova Persei

~~7.7 < comp * dia~~

~~9 39.0~~ ~~136.4~~   57.7

~~25.~~

~~3.~~   ~~Reject~~

Stars gone

1.

9 43 2. Clouds thick again.

3.

~~Right~~   mean = –

9 50 Clouds everywhere & pretty thick
no chance for Nova

10 00 Clouds came again in heavy masses
so nothing could be done

F1 34√1   Ball 103
21 26 01.3   21 05 00

Mar 25, 1902 (Tuesday)

BD C 182 Ball 103
6 51 37.0 6 49 0.0

o Ceti w Obs.
Phot W 2 12 -3.6
7 18
5 06

7 12 Region low, twilight still strong. Companion glimpsed once in a while but extremely faint in photometer.
Impossible to obtain any settings as yet.

7 25 Sky clear. impossible to get o Ceti
Pretty certainly gone for this opposition

T Androm. w Obs.
0 17 +26.L
7 57
7 40

7 33 Region low & about on horizon. Impossible to get variable.

7 35 R Persei Region set

R Arietis w Obs.
2 1 +25.2
7 57
5 56

✓ 12.42
12.37
12.160

8 18 R 1 var, 5 R
Region low, est difficult var
thought to be certainly identified

Mar 25, 1902

Nova Persei, Wells

3 24 + 436

Phot T. 8 44 9.5 cap

3 20

Left

80.0 < comp * dis

8 30.0 133.9 53.9

254.0 66.4

320.4 120.3 + 1.19 ✓

746 + 1.16 ✓

149.5 65.9

259.3 56.5 ✓

315.8 122.4 + 1.14

Below mean = + 1.12 ✓

351.2

44.9 53.7 ✓

160.1 72.7

232.8 125.4 + 1.08 ✓

344.6 + 1.08 ✓

8 37.0 52.9 68.3

8 33.5 168.2 57.5

5-2.6 225.7 125.8, + 1.07 ✓

13 30.9 G M Time

5834.563

March 25, 1902 *

Same Again.

Right
350.4
8 39.0 47.9 57.5 ✓
161.8 71.1
232.9 128.6 + 1.00

340.8 + 0.98
52.8 72.0 ✓
168.9 59.2
228.1 131.2 + 0.95 ✓
Left Mean + 1.10 ✓
254.1
321.8 67.7 ✓
82.0 51.4
133.4 119.1 + 1.21 ✓

261.7 ✓ + 1.21 ✓
8 46.4 312.1 50.4 ✓
8 5.4 73.6 68.7
8 42.7+ 142.3 119.1 + 1.21 ✓
5 - 26
~~13 40.6~~ E.M. Time Final mean + 1.11 ✓
8 34.569 PCa = 75 = 8Va VB C.S. = 72 v+
S.T. = 9:19 Magn = 8.36 ✓
Dec = +43.6
Ha = +5.52
S/wl = 0.5a, 1.5B 2√C

Mar. 25, 1902

Phot R U Camelop WCOk
3 30 +62.3
9 37
6 67

~~Left~~

219.2 < vardis

9 21.0 275.1 55.9
45.7 44.8
90.5 100.7 — 1.64

~~224~~.7 — 1.64
270.6 45.9
39.8 55.2
90.0 101.1 — 1.63

Right

mean = —1.64

129.1
185.3 56.2
315.3 45.3
360.6 101.5 —1.62

134.7
9 29.0 180.8 46.1 —1.64
9 25.0 310.9 54.0
0 2.6 364.9 100.1 —1.65
14 22.4 G. M. Time
-5834.

March 25, 1902

Same Again

Right

128.4
9 31.0 184.2 55.8
313.4 47.2
360.6 103.0 + 1.58

134.1 + 1.61
179.9 45.8
309.5 55.0
364.5 100.8 + 1.64
Left mean = − 1.62
38.8
93.5 54.7
222.0 47.5
269.5 102.2 − 1.61

43.4 − 1.64
9 38.0 89.6 46.2
9.0 219.5 53.7
9 34.5 ~~[illegible]~~ 99.9 − 166
5 − 2.6 273.2 Thiel − 163
14 31.9 PA 331.2 VnB G.S. 9.18
of 34. HA +6:29 West Magn − 7.55
Dec +62.3
S.T. 10:03

See next Book

This record book
Reduced, plotted & posted.

Mar. 26, 1902

6 57

7 00 39

19 secs

+19