KG
11365
603

KG 11365.6 b3

KG 11365.603

HARVARD
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JUL 2 1956

Dec. 2. 1910. (Friday)

RZ Draconis. W. sh. Tebbutt's rec. Phot. I.

18 22 +58.7
24 30
+6 8

I

Index left. + before. B. C. S. dis.

~~#~~83.7 62.7 ✓
7.49.40 146.4
274.8 44.0 ✓
318.8 106.7 ✓ +1,49 ✓

93.0 44.3 ✓ +1.57 ✓
137.3
268.2 56.1 ✓
324.3 100.4 ✓ +1.65 ✓

Index in left taken out.

359.0 52.8 ✓
51.8
190.6 39.9 ✓
230.5 92.7 ✓ +1.84 ✓

6.0 53.8 ✓
7.55.55 59.8 +1.64 ✓
10 5. 35. ✓ 180.2 55.0 ✓
7 52 48. ✓ 235.2 108.8 ✓ +1.45 ✓
+5 -1 45. ✓
12 51 3. ✓ Mean +1.60 ✓
9008.5354 ✓

Dec. 2, 1910.

Index right & above A.

II

~~35~~ 1.0

7.39.5 55.8 54.8 ✓

187.7 41.0 ✓

228.7 95.8 ✓ +1.76 ✓

7.0 37.0 ✓ +1.84 ✓

44.0

182.6 53.0 ✓

235.6 90.0 ✓ +1.91 ✓

Index left & below. B.

270.8 49.9 ✓

320.7

97.8 36.0 ✓

133.8 85.9 ✓ +2.03 ✓

279.6 37.6 ✓ +1.93 ✓

8.6.5

317.2

86.9 55.6 ✓

142.5 93.2 ✓ +1.83 ✓

Mean +1.88 ✓

5 10. ✓
8 2 5. ✓
+5 −1 45. ✓
13 0 20. ✓
9008.5419 ✓

Dec. 2, 1910.

Index Left + Below B. III

8.10.10

271.2
321.1 49.9 ✓
99.0
136.0 37.0 ✓
86.9 ✓ +2.00 ✓

279.0 +2.01 ✓
316.8 37.8 ✓
93.6 48.4 ✓
142.0 86.2 ✓ +2.02 ✓

Index Right + above. A.

184.5 47.8 ✓
232.3
10.5 35.5 ✓
46.0 83.3 ✓ +2.10 ✓

189.0 +2.06 ✓
226.0 37.0 ✓
2.6 48.6 ✓
51.2 85.6 ✓ +2.03 ✓

mean +2.04 ✓

8.16.25
26 35 ✓
8 13 18 ✓
+5 −1 45 ✓
13 11 33 ✓
9008,5497 ✓

Dec. 2, 1910.

Index Right and above. A. IV

181.9 52.4
8.21.30 234.3
12.3 34.8
47.1 87.2 +1.99

190.0 33.6 +2.08
223.6
3.1 47.4
50.5 81.0 +2.17

Index left + below. B.

92.7 47.7
140.4
281.5 30.3
311.8 78.0 +2.25

101.2 33.3 +2.24
8.27.50 134.5
49 20 275.0 46.0
8 24 40 321.0 79.3 +2.22
+5 -1 45
13 22 55 mean +2.16
9008.5575+

Dec. 2. 1910.

Index Left + below. B.

8·32·0 ↘

271·0
322·1 51,1
103·4 30,7
134·1 81,8 +2,14

281·2 32,9 +2,12
314·1
93·0 45,9
~~14~~138·9 78,8 +2,23

Index Right + above. A.

184·0 47,0
231·0
9·5 34,0
43·5 81,0 +2,17

190·0 33,5 +2,16
223·5
4·3 47,7
52·0 81,2 +2,16

8·38·5
70 15,
8 35 8,
+5 -1 45,
13 33 23
good, 5649

P. A. 261°·3 mean +2,17

Seeing on prec. series a little blurry and ob. somewhat difficult.

L. P. P.

Dec. 2, 1910.

δ Orionis, H. obs. Tebbutts rec.

Phot. R. One prism removed.

5 25 −0.5

1 50 Index Right and above A.

−3 35

287.1

8.57.45 +8 25 300.6 13.5

107.2 14.3

121.5 27.8 −4.57

287.0 14.3 −4.56

301.3

107.1 13.9

1 121.0 28.2 −4.54

Index left + below. B.

197.8 13.8

211.2

17.3 13.7

31.0 27.1 −4.63

198.1 13.1 −4.58

9.3.45 211.2

1 30. 18.4 12.9

9 0 45. 31.3 26.0 −4.72

+5 −1 45. mean −4.582

13 5 9 0

900d. 5826

Dec. 2. 1910.

Index Left & below.

9.5.50

198.0
211.8 13.8 ✓
17.4 14.1 ✓
31.5 27.9 ✓ −4.56 ✓

197.6 14.4 ✓ −4.55 ✓
212.0
18.2 13.8 ✓
32.0 28.2 ✓ −4.54 ✓

Index Right & above.

108.0 14.2 ✓
122.2
288.0 13.9 ✓
301.9 28.1 ✓ −4.55 ✓

107.8 14.8 ✓ −4.56 ✓
122.6
288.9 12.9 ✓
301.8 27.7 ✓ −4.58 ✓

mean −4.56 ✓

9.11.30
17 20. ✓
9 8 40. ✓
+5 −1 45. ✓
14 6 55. ✓
9008.5881 ✓

Seeing on & very blurry much of the time.
No watch used for times.
Watch 1m 45s fast.

L. P. A.

Dec. 3. 1910. (Saturday).

R R Vulpec. W. obs. Julian K. Abbotts sec.
Phot. J.

I

20 48 +27.5
24 48
+4 0

Index left + above β.

190.6	35.8 C. S. Disc	
226.4		
16.1	22.8	
38.9	58.6	+2.91

7.59.15

195.1	24.4	+2.94
219.5		
11.8	32.9	
44.7	57.3	+2.96

Index right + below st.

95.6	40.6	
136.2		
286.1	24.0	+2.69
310.1	64.6	~~+2.84~~

104.0	24.5.	2.9~~8~~0
128.5		
276.5	29.4	
305.9	53.9	+3.11

mean +2.9~~8~~2

8.6.10
5 25.
8 2 42.
+5 -1 28.
13 1 14.
9009.5425+

Dec. 3. 1910.

Index Right + Below A. II

100.0
8.8.5 134.5 34.5 ✓

284.8 23.6 ✓
308.4 58.1 ✓ +2.93 ✓

104.4 24.7 ✓ +2.89 ✓
129.1
279.0 35.5 ✓
314.5 60.2 ✓ +2.85 ✓

Index left and above. B.

9.0 34.6 ✓
43.6
193.2 26.8 ✓
220.0 61.4 ✓ +2.81 ✓

14.6 26.5 ✓ +2.78 ✓
8.15.45 41.1
23 50. ✓ 189.2 36.8 ✓
8 11 55. ✓ 226.0 63.3 ✓ +2.74 ✓
+5 -1 28. ✓
13 10 27. ✓ mean +2.84 ✓
9009.5489 ✓

Dec. 3. 1910

Index ~~Right~~ Left + above B.

III

8.18.18

9.3
46.0 36.7
106.0 14.5
220.5 51.2 +3.22

13.0 28.1 +3.03
41.1
192.9 32.4
225~~8~~3 60.5 +2.84

Index right and below. A.

280.8 36.2
317.0
~~104.0~~ 103.7 26.3
130.0 62.5 +2.77

285.6 26.2 +2.81
311.8
99.9 34.1
13~~3.8~~ 4.0 60.3 +2.65

8.25.40
43 58.
8 21 59.
+5 −1 28.
13 20 31.
9009.5560

mean +2.92

Dec. 3, 1910.

Index Right + Below A.

IV

8.28.0

280.0 34.4 ✓
316.4
104.0 26.6 ✓ +2.82 ✓
130.6 61.0 ✓ ~~3.23~~

+2.82 ✓
~~3.02~~

285.0 27.0 ✓
312.0
99.5 34.1 ✓
133.~~3~~6 61.1 ✓ +2.82 ✓

Index left and above. B.

189.5 33.2 ✓
222.7
13.1 26.9 ✓
40.0 60.1 ✓ +2.86 ✓

194.0 26.0 ✓ +2.82 ✓
220.0
~~10.4~~ 9.0 36.4 ✓
~~44.9~~ 45.4 62.4 ✓ +2.77 ✓

8.34.10
62 10. ✓
4 31 5. ✓
+5 -1 28. ✓
13 29 37. ✓
9009.5622 ✓

P.A 21°-2 mean +2.82 ✓ ~~+2.92~~

L. P. P.

Dec. 3. 1910.

~~Inlet Bright + above~~
~~left.~~

~~3~~

δ Orionis. W. st. Abbotts sec. I
Phot. R. One prism removed.

5 25 −0.5
1 55
−3 30 Inlet left + below B.
+8 30

9.3.10

27.9 13.4
41.3
208.0 13.3
221.3 26.7 −4.66

27.8 13.3
41.1 −4.70
208.2 12.6
220.8 25.9 −4.73

Inlet right & above. A.

298.0 13.9
311.9
118.0 13.8
131.8 27.7 −4.58

117.2 ~~297.4~~ 14.7 −4.55
131.9 ~~311.3~~
298.2 13.7
311.9 28.4 −4.52

Mean −4.62

~~9.9.0~~
9.10.40
13 50.
9 6 55.
+5 −1 28.
14 5 27.
9009.5871

Dec. 3, 1910.

Index Right + above A, II

9.12.50

117.5
131.6 14.1
298.0
312.0 14.0
28.1 -4.55

117.3 14.4 -4.57
131.7
297.6 13.1
310.7 27.5 -4.59

Index left + below B.

28.0 13.2
41.2
207.6 13.8
221.4 27.0 -4.63

29.3 14.0 -4.62
41.3
208.0 13.2
221.2 27.2 -4.62

mean -4.60
Gen. " -4.61

9.18.10
31 0.
9 15 30.
+5 -1 28.
14 14 2
9009.5931

W's watch used for times.
Watch 1m. 28s. fast.

L. P. P.

Dec. 8, 1910. (Thursday).

ψ Cygni. H. obs. Julian K. Abbotts res. I
Phot. I.

20 40 +33,4
25 5 Index above and left B.
+4 25

7.56.30 102.3 Var. dis.
133.4 31.1
273.3 45.7
319.0 76.8 −2.29

94.9 46.4 −2.28
var. dis 141.3
281.2 30.7
311.9 77.1 −2.28

Index right + below. A.
12.9 28.5
41.2
184.6 54.0
228.6 72.3 −2.43

3.5 46.7 −2.36
8.3.0 50.2
15 59 30 10.9 30.5
7 59 45 41.4 77.2 −2.28
+5 −12
12 59 33 mean −2.32
9014.5414

Dec. 8. 1910.

Index Below and Right A.

II

8.10.40

193.3 28.4 ✓
221.7
6.8 41.4 ✓
48.2 69.8 ✓ −2.51 ✓

185.1 43.2 ✓ −2.45 ✓
228.3
11.5 30.5 ✓
42.0 73.7 ✓ −2.39 ✓

Index left and above. B.

95.2 ~~102.1~~ 45.4 ✓
140.6 ~~133.7~~
273.0 ~~275.1~~ 48.0 ✓
321.0 93.4 ✓ −1.82 ✓

99.0 35.7 ✓ −1.98 ✓
134.7
274.8 46.1 ✓
320.9 81.8 ✓ −2.14 ✓

mean −2.22 ✓

8.19.45
30 25 ✓
8 15 12 ✓
45 −12 ✓
13 15 0 ✓
9014.55 21 ✓

Dec. 8. 1910.
Index left + above B.

III

8.27.45
94.9 43.6 ✓
138.5
280.0 34.2 ✓
314.2 77.8 ✓ −2.26 ✓

101.0 32.8 ✓ −2.24 ✓
133.8
274.6 46.2 ✓
320.8 79.0 ✓ −2.22 ✓

Index right + below. A.
4.7 44.3 ✓
49.0
191.0 32.4 ✓
223.4 76.7 ✓ −2.29 ✓

9.4 34.6 ✓ −2.23 ✓
44.0
184.1 46.4 ✓
230.5 81.0 ✓ −2.17 ✓

8.35.40
63 25. ✓
8 31 42. ✓
+5 −12. ✓
13 31 30 ✓
9014.5636 ✓

Mean −2.24 ✓

Dec 8, 1910.
Index Right and Below A.

IV

1.8
8:41:30 50.5 48.7
192.1 31.9
224.0 80.6 -2,18
~~224.0~~
10.4 34.6 -2,15
45.0
184.4 48.0
232.4 82.6 -2,12
~~232.4~~ Index left + above. B.
273.2 45.9
319.1
100.5 35.5
136.0 81.4 -2,15

280.2 36.6 -2,10
8.49.20 316.8
93.~~6~~7 48.3
142.0 84.9 -2,05

8.49.20
90 50.
8 45 25.
+5 -12.
13 45 13
9014.5730

mean -2,12

Dec. 8. 1910.
Index left + above. B.

273.6 49.4
8.57.~~10~~10 323.0 V
100.7 35.5
136.2 84.9 −2.05

278.7 36.3 −2.07
315.0
95.4
~~143.0~~ 47.4
142.8 83.7 −2.09

184.7 Index right + below, A.
~~230~~ 44.9
229.0 9.5 $3\overset{3}{\cancel{4}}.4$
43.0 $7\overset{8}{\cancel{9}}.3$ −2.21

−2.30
190.2 34.8 ~~−2.28~~
9.5.10 225.0
2 20.
9.0 40.4
9 1 10. 47.54 75.2 −2.34
+5 −12.
14 0 58

mean −2.18

9 0 14.58 40

Dec. 8. 1910.

Index Right + Below A.

185.5 42.7 ✓ VI

9.10.10 228.2

9.7 34.7 ✓

44.4 77.4 ✓ −2.27 ✓

~~140.2~~

−2.24 ✓

140.2 34.8 ✓

225.0

4.0 44.9 ✓

48.9 79.7 ✓ −2.20 ✓

Index Left + Above B.

95.0 48.0 ✓

143.0

278.0 35.0 ✓

313.0 83.0 ✓ −2.11 ✓

99.7 37.3 ✓ −2.15 ✓

137.0

279.0 assumed 27.9 42.9 ✓

321.9 80.2 ✓ −2.19 ✓

P. A 15°-0 mean −2.20 ✓

9.17.0

27 10. ✓

9 13 35. ✓

+5 −12. ✓

14 13 23 ✓

9014.5927 ✓

No watch used for times.
Watch 12 secs. fast.

L. P. P.

Dec. 9. 1910 (Friday).

δ Orionis.

5	25	0.5
1	10	
− 4	15	
+ 7	45	

7 4.43.50

Index Right and Above A.

297.1
311.5 14.4
117.4
131.7 14.3
28.7 −4.50

297.9 13.0 −4.56
310.9
117.0 14.0
27.0 −4.63
131.0

Index Left and Below B.

208.~~7~~4
221.3 12.9
28.0 13.2
41.2 26.1 −4.71

208.7 13.2 −4.63
221.9
27.0 14.9
28.1 −4.55
41.9

Mean −4.60

7.53.20
97 10.
7 48 35.
+5 +4.
12 48 39.
9015.5337

Dec. 9. 1910.

Index Left + Below B.

7.5650

208.6
222.7 14.1 ✓

28.6
41.1 12.5 ✓
26.6 ✓ −4.67 ✓

207.8 13.3 ✓ −4.61 ✓
221.1
27.5 14.7 ✓
42.2 28.0 ✓ −4.55 ✓

Index Right + Above A.

117.5
132.4 14.9 ✓

298.1 13.2 ✓
311.3 28.1 ✓ −4.55 ✓

117.5 13.7 ✓ −4.57 ✓
131.2
298.0 13.8 ✓
311.8 27.5 ✓ −4.59 ✓

mean −4.59 ✓

8.4.30

1 20. ✓
8 0 40. ✓
+5 +4. ✓
13 0 44. ✓
9015.5422 ✓

Dec. 9. 1910.
Index Right and above A.

8.7.50

118.1 14.5
132.6
117.6 13.6
131.2 28.1 -4.55

-4.60

298.3 ~~29~~ ~~298.3~~ 13.2
311.5 ~~132.1~~
118.1 ~~117.2~~ 13.7
131.8 ~~132.0~~ 26.9 -4.64

Index left and Below B.

207.7 14.1
221.8
27.9 14.0
~~42.0~~ 28.1 -4.55
41.9

-4.56

27.8 ~~268.2~~ 13.7
41.5 ~~221.4~~
208.0 ~~222.4~~ 14.0
222.0 27.7 -4.58

8.23.0
30 50.
8 15 25.
+5 +4.
13 15 29.
9 0 15. 55 24

mean -4.58
~~Gen. " 4.60~~
Gen. mean -4.59

W's watch used for times
Watch 4 sec's slow.

Seeing very blurry, but ~~a~~ somewhat better (at times) in last group.

L. P. P.

Dec. 10. 1910. (Saturday).

δ Orionis.
v 2v −0.v
1 vd
−4 2 7
+7 3 3

For meats see pp. 27-8.

Dec. 10. 1910.

Index left and below B.

208.7
7.2630 222.6 13.9 ✓ ← Both. dis,

27.5 13.7 ✓
41.2 27.6 ✓ −4.59 ✓

2

206.9 14.4 ✓ −4.50 ✓
221.3

26.1 15.3 ✓ −4.42
41.4 29.7 ✓

Index Right + above A.

117.3 14.4 ✓
131.7

297.7 14.2 ✓
311.9 28.6 ✓ −4.51 ✓

117.7 13.6 ✓ −4.56 ✓
131.3
298.1 13.6 ✓
311.7 27.2 ✓ −4.62 ✓

mean −4.53 ✓

7.34.20
60 50. ✓
7 30 25. ✓
+5 +19 ✓
12 30 44. ✓
9016.5213 ✓

Dec. 10. 1910.

Index Right + Above. A.

7.43.50

117.3 14.6 ✓
131.9
297.7 13.7 ✓
311.4 28.3 ✓ −4.53 ✓

117.8 13.8 ✓ −4.53 ✓
131.6
297.8 14.5 ✓
312.3 28.3 ✓ −4.53 ✓

Index Left and Below B.

27.9 13.7 ✓
41.6
208.1 13.9 ✓
222.0 27.6 ✓ −4.59 ✓

28.2 13.7 ✓ −4.52 ✓
41.9
208.0 14.2 ✓
222.2 27.9 ✓ −4.56 ✓

7.54.50
9 2 40. ✓
7 49 20. ✓
+5 +19. ✓
12 49 39. ✓
~~9016.5761~~ ✓
9016.5344 ✓

mean −4.56 ✓
Gen. " −4.54 ✓

L. P. P.

Dec. 10. 1910.

Double Star (~~Index~~ new list) = Bos. Cat. = A-33

5   29   −6.1
2   13
—————
−3   1.6
+8   44

For results, see p. 30.

Dec. 10. 1910.

Index Left + Below B

8·46·20

269·0
339·8 70.8 ✓
93·5
155·0 61.5 ✓
132.3 ✓ 0.93 ✓

272·8 64.2 ✓ 0.88 ✓
337·0
87·3 73.1 ✓
160·4 137.3 ✓ 0.83 ✓

Index Right + Above A.

177·3 71.9 ✓
249·2
360·0 65.0 ✓
65·0 136.9 ✓ 0.84 ✓

181·1 64.2 ✓ 0.85 ✓
245·3
358·9 71.5 ✓
70·4 135.7 ✓ 0.86 ✓
mean 0.86 ✓

8.55.0″
181 20. ✓
8 50 40. ✓
+5 +19. ✓
13 50 59. ✓
9016.

Seeing rather blurry.

W's watch used for times.
Watch 19 secs slow.

L. P. P.

Dec. 12, 1910. (Monday)

~~Index right + above~~

δ Orionis. H. obs. J. H. Tebbetts rec.

~~5 25 −0.5~~

Phot. R.-one prism removed.

5 25 −0.5
0 5 }

4 2 2
+7 3 2

For measts., see pp. 32-3-4.

Dec. 12. 1910.

Index Left and Below B.

I

7.17.50

208.8 13.6 ✓

222.~~3~~4

28.0 14.1 ✓

42.1 27.7 -4.58 ✓

208.0 13.9 -4.52 ✓

221.9

28.0 13.9

41.9 27.8 -4.57 ✓

Index Right + Above A.

117.3 14.7 ✓

132.0

297.8 14.7 ✓

312.5 29.4 ✓ -4.45 ✓

117.9 14.1 ✓ -4.52 ✓

132.0

298.1 13.6 ✓

311.7 27.7 ✓ -4.58 ✓

7.23.50

41 40. ✓

7 20 50. ✓

+5 +54. ✓

12 21 44 ✓

90 18.5151 ✓

Mean -4.55 ✓

Dec. 12, 1910.

Index Right and Above A.

II

7.2640

117.8
132.1 14.3
297.9 14.7
312.6 29.0 −4.48

−4.42

117.0 15.7
132.7
297.0 15.0
312.0 30.7 −4.35

Index Left + Below B.

28.3
41.7 13.4
207.6 14.2
221.8 27.6 −4.59

28.2 13.6
41.8

−4.63

208.4 12.9
221.3 26.5 −4.67

Mean 4.52

7.32.0

5 8 40.
7 29 20.
+5 +54.
12 30 14.
9018.5209

Dec. 12. 1910

Index Left + Below B.

III

7.40.20

28.7
41.0 12.9 ✓

208.4 13.0 ✓
221.4 25.9 ✓ −4.73 ✓

28.0 13.5 ✓ −4.69 ✓
41.5 ✓
208.0 13.3
221.3 26.8 ✓ −4.65

Index Right + Above A.

298.4 13.8
312.2
117.7 14.2
131.9 28.0 −4.55 ✓

297.7 14.5 −4.55 ✓
312.2
118.4 13.6
132.0 28.1 −4.55 ✓

7.46.0
86 20. ✓
7 43 10. ✓
+5. +54. ✓
12 44 4. ✓
9018.5307 ✓

Mean −4.62 ✓
Gen. " −4.56 ✓

We watch used for times.
Watch 54 secs. slow.

L. P. P.

Dec. 12, 1910.

U Cephei.

0	50	+81.2
1	57	
+1	7	

For measts, see fol. pages.

Phot. T. W. ob. [illegible] Tabbotts rec.

Full ap. Bt. moonlight.

Dec. 12. 1910.

Indep Left and Below B.

I

255.4
8.43.0 335.9 < Comp. Star Dis.
88.8 80.5
147.8 59.0
139.5 +0.78

271.0 50.0
321.0 +0.90
74.9 77.8
152.7 127.8 +1.03

Indep Right + Above A.

169.5 75.9
245.4
354.7 59.3
54.0 135.2 +0.87

179.0 54.7
8.49.0 233.7 +0.78
92 0 339.3 89.7
8 46 0 69.0 144.4 +0.69
+5 +56.
13.46 56.
9018.5742

Mean +0.84
8.41
9.25

Dec. 12. 1910.

Index Right + Above A.

II

852.45

168.5 80.5 ✓ ~~184.8~~
249.0 ~~75.5~~ ~~249.2~~
356.5 60.8 ✓
57.3 ~~136.3~~
141.3 ✓ +0.75 ✓

178.0 58.2 ✓ +0.69 ✓
236.2 ✓
343.0 89.0
72.0 147.2 ✓ +0.63 ✓

Index left + Below B.

75.0 82.2 ✓
157.2
268.3 59.0 ✓
327.3 141.2 ✓ +0.75 ✓

~~846~~
~~1485~~ 72.5 87.4 ✓ +0.68 ✓
159.9
266.5 60.5 ✓
327.0 147.9 ✓ +0.62 ✓

9.040
1132 5. ✓
8 5 6 42 ✓
+5 +56 ✓
13 57.38. ✓
901.8, 5816 ✓

mean +0.68 ✓
8.41
9.09

Dec. 12. 1910 -

Index left + Below B. III

9.3.40

90.0
145.5 55.5 ✓
254.9 84.0 ✓
338.9 139.5 ✓ +0.78 ✓

72.2 89.8 ✓ +0.66 ✓
162.0
266.5 61.5 ✓
328.0 151.3 ✓ +0.55 ✓

Index Right + above A.

343.6
69.0 85.4 ✓
179.0 56.0 ✓
235.0 141.4 ✓ +0.75 ✓

357.5 60.0 ✓ +0.68
57.5
163.8 87.8 ✓
251.6 147.8 ✓ +0.62 ✓

9.10.20
14 0. ✓
9 7 0 ✓
+5 +56. ✓
14 7 56 ✓
901 8.5888 ✓

Mean +0.67 ✓
8.41 ✓
9.08

Dec. 12, 1910.

Index Right and above A.

~~IV~~

9h40

339.0
75.9 96.7
178.5
238.4 59.9
156.6 +0.45

355.5 64.1 +0.50
59.6
165.8 87.0
252.8 151.1 +0.55

Index Left & Below B.

251.0
343.9 92.9
86.8
148.1 61.3
154.2 +0.49

266.6 60.8 +0.49
327.4
69.0 93.8
162.8 154.6 +0.49

Mean +0.50
8.41
8.91

9.22.0
36 0
9 18 0
+5 +56
14 18 56
9018.5964

Dec. 12. 1910,

Index left and Below — B.

V

9.24.35

249.0
342.2 93.2
86.2 $\overset{6}{\cancel{7}}$2.1
$1\overset{4}{\cancel{5}}$8.3 ~~165.3~~
155.3 +0.47

267.5
328.4 60.9 +0.48
72.0 93.4
165.4 154.3 +0.49

Index Right + above — A.

159.2
255.4 96.2
355.8 61.2
57.0 157.4 +0.43

176.8
242.0 65.2 +0.45
338.8 96.1
74.9 161.3 +0.36

~~8~~ 9.31.50
56 25
9 28 12.
+5 +56.
14 29 8
9018.6036

P. A. 16° 4 Ver. B.

Mean +0.44
8.41
8.85

Fr's watch used for times.
Watch 56 secs. slow.

L. P. P.

Dec. 16. 1910. (Friday)

δ Orionis. W. obs. Julian K. Tebbetts rec.

5 25 −0.5
1 25
−4 0
+8 0

Phot. R. One prism removed.

For measts, see pages. 42, 43. 44.

Dec. 16. 1910.

Index Right + Above A, I

116.0

7.43.50 131.0 15.0✓

295.5 15.0✓

310.5 30.0✓ −4.40✓

115.8 15.0✓ ~~17.0~~✓ −4.36✓

131.6

295.8 15.4✓

311.2 31.2✓ −4.32✓

Index Left + Below B.

26.4 14.5✓

40.9

207.0 13.8✓

220.8 28.3✓ −4.53✓

26.7 14.5✓ −4.52✓

7.50.45 41.2

943 5.✓ 207.0 14.0✓

7 47 12.✓ 221.0 28.5✓ −4.52✓

+5 −5.✓

12 47 13.✓

9022.5327✓

Mean −4.44✓

Dec. 16. 1910.

Index Left + Below B. II

26.0
7.53.0 41.5 15.5
206.9 13.8
220.7 29.3 −4.45

26.0 14.3 −4.46
40.3
205.8 14.7
220.5 29.0 −4.48

Index Right + Above A.

295.7 15.4
311.1
116.9 13.7
130.6 29.1 −4.47

296.4 14.2 −4.46
8.0.30 310.6
113 30. 116.7 15.3
7 56 45. 132.0 29.5 −4.44
+5 −5.
12 56 40. Mean −4.46
9022.5394

Dec. 16, 1910.

Index Right and Above A. III

8.11.15

296.4 14.6
311.0
116.2 13.6
130.8 28.2 -4.54

296.1 14.7 -4.58
310.8 14.7
116.8 29.4 -4.45
131.5

Index Left + Below B.

206.9 13.6
220.5
26.7 14.8
41.5 28.4 -4.52

206.5 13.9 -4.56
220.4
27.3 13.4
40.7 27.3 -4.61

mean -4.53
Gen " -4.48

8.18.0

29 15.
8 14 38.
+5 -5.

13 14 33.
9022.5518

L. P. P.

Dec. 16, 1910.

Double Star (new list) = Burnham's Cat. 2833.
Phot. R. One prism removed.

```
   5   29    -6.1
   2   17
 --------
 -3   12
 +8   48
```

W. obs., Julian K. Tibbetts rec.

For meas'ts. see fol. page.

P.A. 220°   Dist. 36."   Mags. 5.6, 6.5

Dec. 16, 1910.

Index Below

87.5
8.40.0 151.9 64.4 ✓
264.1
335.9 71.8 ✓
136.2 ✓ 0.85 ✓

86.0 69.6 ✓ 0.86 ✓
155.6
268.0 65.0 ✓
333.0 134.6 ✓ 0.88 ✓

Index above

358.5 65.3 ✓
63.8
175.5 69.5 ✓
245.0 134.8 ✓ 0.88 ✓

353.9 71.1 ✓ 0.89 ✓
65.0
179.9 62.5 ✓
242.4 133.6 ✓ 0.90 ✓

Mean 0.88 ✓

8.45.40
85 40. ✓
8 42 50. ✓
+5 −5. ✓
13 42 45. ✓
9022.5 714 ✓

W's watch used for times.
Watch 5 sec's. fast.

L. P. R.

Dec. 17. 1910. (Saturday)

U Cephei. W. obs. f. K. Tebbutts rec.
Phot. T. Full ap.

0 v 0 +81.2
2 v
+1 1 v

For results. ~~Se~~ see p. 48.

Dec. 17. 1910.
Index Left + Below B.

~~88.9.~~

257.9 76.6 Comp. alter dir.
8.41.30 334.5
87.0 58.5
145.5 135.1 +0.87

270.5 53.0 +0.94
323.5
79.0 76.0
155.0 129.0 +1.00

Index Right + above A.

167.6
246.5 78.9
353.8 64.7
58.5 143.6 +0.70

177.9 59.3 +0.66
8.48.20 237.2

89 50. 342.2 88.6
8 44 55. 70.8 147.9 +0.62
+5 +12

13 45 7. P.A. 17° 0 Ver. B.
9023.5730

+0.80
Mean ~~+0.90~~
8.41
Magn. 9.21

W's watch used for times.
Watch 12 secs slow.
Obs. through clouds. Obs. rather difficult.
L. P. P.

Dec. 22. 1910. (Thursday).

U Cephei: H.co. J. K. Tebbetts rec.
Phot. T.

0 50 +81.2
1 46
+0 56

For measts. see fol. pages.

Dec. 22. 1910.

Index Left + Below B. I

77.0

7.50.40 155.0 ← Comp. Star Dis

272.8 78.0

322.5 49.7

127.7 +1.03

91.5 51.0 +1.10

142.5 69.4

268.0 120.4 +1.18

337.4

Index Right + Above A.

341.0

72.6 91.6

177.0 62.0

239.0 153.6 +0.50

355.0 68.5 +0.47

7
8.56.50 63.5

107 30.

163.0 88.4

2 53 45. 251.4 156.9 +0.44

45 +50.

2 54 35.

~~90 28.5796~~

90 28.5379

+0.78

8.41

mean 9.19

Dec. 22. 1910.

Index Right + above A. II

341.0

8.3.0 73.0 92.0 ✓

176.3 63.1 ✓

239.4 155.1 ✓ +0.48 ✓

355.8 63.6 ✓ +0.54 ✓

59.4

165.6 85.4 ✓ +0.59 ✓

251.0 149.0 ✓

Index Left + Below B.

255.2 79.3 ✓

334.5

84.1 59.5 ✓

143.6 138.8 ✓ +0.80 ✓

271.2 56.8 ✓ +0.78 ✓

8.9.30 328.0

12 30. ✓ 74.8 83.6 ✓

8 6 15. ✓ 158.4 140.4 ✓ +0.77 ✓

+5 +50. ✓

13 7 5. ✓ Mean +0.66 ✓

9028.5466 ✓ 8.41

Means 9.07

Dec. 22. 1910.

Index left + below B III

~~258.5~~
~~338.0~~

~~8.12.50~~

271.0

8.13.50 326.5 55.5 ✓

78.4 76.6 ✓

155.0 132.1 ✓ +0.94 ✓

257.0 81.2 ✓ +0.90 ✓

338.2

89.2 55.2 ✓

144.4 136.4 ✓ +0.85 ✓

Index right + above A.

162.5 87.0 ✓

249.5

353.6 68.0 ✓

61.6 155.0 ✓ +0.48 ✓

177.3 61.8 ✓ +0.48 ✓

8.20.50 239.1

·34 40. ✓ 341.0 92.6 ✓

8 17 20. ✓ 73.6 154.4 ✓ +0.49 ✓

+5 +50. ✓

13 18 10. ✓

9028.5543 ✓

mean +0.69 ✓

8.41

mag. 9.10

Dec. 22. 1910.

Index Right + Above A. ~~I V~~

163.5 89.7 ✓
8.23.50 253.2
355.2 64.8 ✓
60.0 154.5 ✓ +0.49 ✓

177.0 62.3 ✓ +0.52 ✓
239.3
341.6 89.4 ✓
71.0 151.7 ✓ +0.54 ✓

Index Left + Below B.

79.6 80.4 ✓
160.0
268.5 57.9 ✓
326.4 138.3 ✓ +0.81 ✓

87.9 59.1 ✓ +0.78 ✓
8.30.50 147.0
5440. ✓ 255.5 81.6 ✓
8 27 20. ✓ 337.1 140.7 ✓ +0.76 ✓
+5 +50. ✓
13 28 10. ✓
9028.5612 ✓

Mean +0.65 ✓
8.41 ✓
Magn. 9.06 ✓

Dec. 22. 1910.

Index left + Below B V

78.1
8.33.10 154.8 76.7
268.5 57.1
325.6 133.8 +0.90

88.5 58.0 +0.88
146.5
258.0 78.0
336.0 136.0 +0.86

Index Right + Above A.

342.0
71.2 89.2
176.7 63.7
240.4 152.9 +0.52

354.0 68.0 +0.51
8.38.40 62.0
71 50. 162.8 85.8
8 35 55. 248.6 153.8 +0.50
+5 · +50.
13 36 45.
9028.5673

mean +0.70
8.41
magn. 9.11

Dec. 22. 1910.

Index Right + Above A VI

~~34 10 173~~

~~54.0~~

~~8.41.35~~

8.42.50 173.4 67.6 ✓
241.0
341.0 92.9 ✓
73.9 160.5 ✓ +0.37 ✓

162.8 89.4 ✓ +0.38 ✓
252.2
350.9 70.7 ✓
61.6 160.1 ✓ +0.38

Index Left + Below B.

76.5 81.0 ✓
157.5
266.6 61.9 ✓
328.5 142.9 ✓ +0.72 ✓

84.8 65.3 ✓ +0.58 ✓
8.48.50 150.1
91 40. ✓ 252.2 91.2 ✓
8 45 50. ✓ 343.4 156.5 ✓ +0.45 ✓
+5 +50. ✓
13 46 40. ✓
9028.5741 ✓

mean +0.58 (4 over 5) ✓
8.41
~~8.99~~
Mag. 8.89 ✓

Dec. 22. 1910.

Index Left + Below B. ~~VII~~

8.51.20

71.0 89.6

160.6

262.2 69.3

331.5 158.4 +0.41

84.9 67.6 +0.35

152.5

249.9 94.0

343.9 161.6 +0.35

Index Right + Above A.

337.9

77.0 99.3

168.2 77.5 +0.06

245.7 176.8 ~~+0.25~~

349.1 73.2 +0.10

62.3 ~~+0.19~~

159.0 100.0

259.0 173.2 +0.13

9.58.10

10 9 30

8 54 45

+5 +50

13 55 35

9028. 5803

mean +0.24

PA 16° b Var. B

8.41

Mag. 8.65

W's watch used for times

Watch 50 sec's slow

L. P. P.

Dec. 22, 1910.
Aitken's Double +3° 330 (9.0)
Tr. Ob.

2 36 + 2.6
3 31
+0 v v

Companion to
Double not certainly seen with power
^270 – suspected with power v 40.
Seeing rather poor.

L. P. P.

Dec. 27. 1910. (Tuesday).

U Cephei. H. obs. A. H. Hanson rec.

0 √0 +δ1.2
2 0
+1 10

For measts. see fol. pages.

Dec. 27, 1910
Index left + below B.

C. S. dis. I

- 77.4.0 81.0✓
- 7-56-45 - 155.0
- 267.5 59.2✓
- 326.7 140.2✓ +0.77✓

- 89.1 59.7✓ +0.78✓
- 148.8
- 254.8 78.9✓
- 333.7 138.6✓ +0.80✓

Index right & above. A.

Assumed 3
- ~~2~~46.3 79.6✓
- 65.9
- 174.4 61.6✓
- 236.0 141.2✓ +0.75✓

- 356.0 62.8✓ +0.70✓
- 8-4-20 - 58.8
1 5 .✓ - 164.9 83.6✓
8 0 32✓ - 248.5 146.4✓ +0.65✓
+5 +36✓
13 1 8✓ +0.74✓
9033.5 425+✓ 8.41✓
magn. 9.15✓

Dec. 27, 1910
Index right + above. A.

II

- 343.4 83.7✓
−8−8−15 - 67.1
- 178.6 58.6✓
- 237.2 142.3✓ +0.73✓

- 355.3 62.3✓ +0.69✓
- 57.6
- 167.0 83.9✓
- 250.9 146.2✓ +0.65✓

Index left + below B.

- 255.2 84.0✓
- 339.2
- 88.5 60.3✓
- 148.8 144.3✓ +0.69✓

- 267.0 56.8✓
−8−16−25 323.8 +0.76✓
24 40✓ 76.7 80.7✓
8 12 20✓ 157.4 137.5✓ +0.82✓
+5 +36✓
13 12 56✓
9033.5506✓

+0.72✓
8.41✓
Magn. 9.13✓

Dec. 27, 1910.
Index left + below B.

III

- 255.5
8 24 20 - 340.0 84.5
- 86.5 63.1
- 149.6 147.6 +0.62 ~~8-24-20~~

- 263.8 64.9 +0.58
- 328.7
- 73.6 87.1
- 160.7 152.0 +0.54

Index right + above A.

- 160.4
- 253.1 92.7
- 351.7 88.8
- 60.5 161.5 +0.35

- 172.6
8 34 40 - 244.0 71.4 +0.32 ~~8-34-40~~
59 0. 339.5 92.9
8 29 30. 72.4 164.3 +0.30
+5 +36.
13 30 6.
~~9033.5633~~
9033.5626

+0.45
8.41
Mean 8.86

Dec. 27, 1910
Index right + above A.

IV

– ~~160.8~~ 174.0
8 38 15 – 246.0 72.0✓ ~~8 38 15~~
– 339.2 90.2✓
– 69.4 162.2✓ +0.34✓

– 160.7 97.4✓ +0.30✓
– 258.1
– 353.1 68.5✓
– 61.6 165.9✓ +0.27✓

Index left + below B.

– 70.0 93.5✓
– 163.5
– 259.7 72.8✓
– 332.5 166.3✓ +0.26✓

– 81.0 74.5✓ +0.20✓
8 45 10 – 155.5 ~~8 45 10~~
8 43 25✓ 246.8 97.7✓
8 41 42✓ 344.5 172.2✓ +0.15✓
+5 +36✓
13 42 18✓
9033.5710✓

+0.25✓
8.41✓
8.66✓

Dec 27, 1910
Index left + below B.

V

68.5
8 50 0 — 165.0 96.5 ~~8-50-0~~
262.3 69.7
332.0 166.2 +0.26

78.6 +0.10
156.3 77.7
244.2 104.8
349.0 182.5 −0.05

Index right + above. A.

331.0 109.4
80.4
169.3 76.7
246.0 186.1
173.9 −0.11

345.3
8 57 40 — 68.8 83.5 −0.16 ~~8-57-40~~
107 40 — 153.0 107.7
191.2
8 53 50 — 260.7 168.8 −0.21
+5 +36
13 54 26. P.A. 16.4° ver. B
9033.5795+

−0.03
8.41
Mean, 8.38

L. P. P.

Dec. 27. 1910.
Aitken's Double = +3° 330 (9.0)
Fr. obs. Hanson rec.

2 36 +2.6
3 50
71 1F

For measts. see 2 fol. pages.

The two sets on Aitken's Double on fol. page. were taken as follows. - ~~The one~~ Two settings of Limit of Vis. were taken on one image and then 2 settings on the other, using all 4 quadrants of of the Nicol - the photometer being reversed between the ~~sets~~, 2d and 3d. settings - The images were perhaps 30" apart in the meas't. - Similarly for 2d. set.

In the measts on p. 66, the images were put horizontally and the right hand image used throughout in both sets; - Limits of Vis. being taken of the right hand image in all four quadrants, in each ~~set~~,

L. P. P.

Dec. 27, 1910

	318.7		43.3 ✓
9 28 0	2.0	~~9-28-0~~	
	230.9		38.7 ✓
	269.6		82.0 ✓ 2.14 ✓
	55.4		
9 30 0	84.2	~~9-30-0~~	28.8 ✓
	141.9		39.9 ✓
	181.8		68.7 ✓ 2.55 ✓

mean 2.34 ✓

Dec 27, 1910.

229.1
9 32 0. 268.0 ~~9-32-0~~ 38.9
58.0
88.0

30.0 2.54
~~66.9~~ ~~2.61~~
68.9

226.8
9 34 0. 271.4 ~~9-34-0~~ 44.6
57.9
92.8 9 - 3 34.9
79.5 2.21

2.38
mean ~~2.44~~

W's watch used for times,
Watch 36 secs. slow.

L. P. P.

~~Dec. 31. 1910. (Saturday)~~.

Dec.

~~Nova Lacertae (Espin's Nova)~~

Dec. 30. 1910. (Friday).

Nova Lacertae = Espin's Nova.

Comp. Star = +51° 3420 (8.7)

For measts. see pp. 68, 69.

Dec 27, 1910.

229.1
9 32 0. 268.0 ~~9-32-0~~ 38.9 ✓
58.0
88.0

30.0 ✓ 2.54 ✓
~~66.9~~ ~~2.61~~
68.9 ✓

226.8
9 34 0. 271.4 ~~9-34-0~~ 44.6 ✓
57.9
92.8 9 - 3

34.9 ✓
79.5 ✓ 2.21 ✓

2.38 ✓
mean ~~2.41~~

W's watch used for times.
Watch 36 secs. slow.

L. P. P.

~~Dec. 31. 1910. (Saturday).~~

Dec.

~~Nova Lacertae (Espin's Nova)~~

Dec. 30. 1910. (Friday).

Nova Lacertae = Espin's Nova.

Comp. Star = +51° 3420 (8.7)

For measts. see pp. 68, 69.

Dec. 30, 1910 ~~(Friday)~~

I.

Index below β. Norm. Dis.

284.1 ← 48.8✓

8-40-35 332.9

95.3 67.7✓ −1.27✓

163.0 116.5✓

271.6 70.8✓ −1.22✓

342.4

102.5 50.5✓

153.0 121.3 −1.16✓

Index above A.

194.4 49.6✓

244.0

5.0 65.5✓ −1.30✓

70.5 115.1✓

186.0 65.9✓

251.9 −1.32✓

15.1 47.9✓

63.0 113.8✓ −1.33✓

8-52-25

9 3 0✓

δ 46 30✓

tw +31.✓

13 47 1.✓

9.36.5743✓

1.

mean −1.27✓

II.

Dec. 30, 1910

Index above A.

195.5 47.0✓

8-56-55 242.5

3.7 69.2✓

72.9 116.2✓ −1.28✓

−1.33✓

186.0 64.8✓

250.8

15.0 46.8✓ −1.38✓

61.8 111.6✓

Index below B.

105.4

154.0 48.6✓

276.0 65.0✓ −1.34✓

341.0 113.6✓

−1.34✓

96.2 64.4✓

9-5-10 160.6

2 51.✓ 285.0 48.6✓ −1.35✓

9 1 2.✓ 333.6 113.0✓

+5 +31.✓

14 1 33.✓

9036. 5244✓

Mean −1.34✓

Gen. mean −1.30✓

Comp. Star used in above measts. =
= +51° 3420 (A.G.)

L. A. P.

W's watch used, and was 31 seconds slow.

Dec. 31, 1910. (Saturday).

Novae Lacertae (Espin's Nova.)

W. obs. A. W. Hanson rec.

22 18 +51.5
26 31

+4· 13

Phot. R. – one prism removed.

Same comp. star used as last night.

For measts. see fol. 2 pages.

Dec. 31, 1910
Index left + below B.

Nova Lac. I.

7-40-0

93.0 ← 68.5
161.5
286.0 44.5
330.5 113.0 −1.35

107.0 44.5 −1.40
151.5
276.8 64.0
340.8 108.5 −1.45

Index right + above A.

4.0
71.3 67.3
192.9
241.6 48.7
116.0 −1.28

14.6
62.3 47.7 −1.24
181.3
253.1 71.8
119.5 −1.20

7-47-50
87 50.
7 43 55
+5 +32.
12 44 27.
9037.5309

Mean −1.32

Dec. 31, 1910

Index right + above A.

II

1.5
7-52-0 73.6 72.1 ✓
195.4 45.8 ✓
241.2 117.9 ✓ −1.24 ✓

15.2 47.4 ✓ −1.26 ✓
62.6
183.9 68.8 ✓
252.7 116.2 ✓ −1.28 ✓

Index left and below B.

272.8 70.6 ✓
343.4
105.5 45.7 ✓
151.2 116.3 ✓ −1.27 ✓

287.0 44.6 ✓ −1.36 ✓
331.6
97.6 64.5 ✓
162.1 109.1 ✓ −1.44 ✓

mean −1.31 ✓
Gen. " −1.32 ✓

8 − 1 − 0
11 3 0. ✓
7 56 30. ✓
+5 +32. ✓
12 57 2. ✓
9037.5396 ✓

L. P. P.

Dec. 31, 1910

Double Star (new list) = Burnham's Cat. 11862.
W. obs. J. W. Hanson rec.
Phot. R. - one prism removed.

22 33 +72.2
27 16
+4 43

For measts. see next page.

Dec. 31, 1910
Index left + below

I

178.4 ← N. prec. + brtr. dis.
8-32-26 257.5
8.9 79.1 ✓
66.0 57.1 ✓
136.2 ✓ 0.85

189.4
248.7 59.3 ✓ 0.84
358.0 77.9 ✓
75.9 137.2 ✓ 0.83

Index Right + above

85.5
167.8 82.3 ✓
275.9 61.6 ✓
337.5 143.9 ✓ 0.70

96.6 54.6 ✓ 0.76
8-40-25 151.2
266.3 82.6 ✓
348.9 137.2 ✓ 0.83

7 2 45. ✓
8 36 22. ✓
+5 +32. ✓
13 36 54. ✓
9037.5673 ✓

mean 0.80

L. P. P.

Dec. 31, 1910.

Double Star (Comstock's List)
No. ~~218~~, 221,

~~23 45 +8.1~~

23 11 −9.6
27 53
+4 42

Abandoned.

Comstocks' List. 18 = Σ 125

1 22 −0.7
4 16
+2 54
Abandoned

W's watch used for times, and was 32 seconds slow.

L. P. S.

Jan. 4. 1911. (Wednesday)

Nova Lacertae.

22 18 +51.5
26 26

+4 8

For measts. see pp. 77–78.

Jan. 4. 1911.

Index left + Below B.

101.8 ← 53.4 ✓ Nova dia.

~~8~~7·27·30 155.2

276.4 66.2 ✓

342.6 119.6 ✓ −1,20 ✓

97.5 67.1 ✓ −1,22 ✓

164.6

283.0 50.1 ✓

333.1 117.2 ✓ −1.25 ✓

Index Right + above A.

15.3 47.7 ✓

63.0

179.9 73.7 ✓

253.6 121.4 ✓ −1.16 ✓

3.0 70.3 ✓ −1.14 ✓

7·33·30 73.3

61 0 ✓ 192.4 52.6 ✓

7 30 30 ✓ 245.0 122.9 ✓ −1.13 ✓

+5 +31 ✓

12 31 1 ✓ mean −1.18 ✓

~~9 37 5, 5 2 15 +~~ ✓

9 0 41, 5 2 15 +

Jan. 4. 1911.

Index Left + Below B.

285·0
8·23·50 312·0 ← comp. star Dis. 27.0 ✓
110·0
127·6 17.6 ✓ / 44.6 ✓ +3.53 ✓

I

289·0 14.8 ✓ +3.56 ✓
303·8
106·7 28.4 ✓ / 43.2 ✓ +3.60 ✓
135·1

Index Right + Above A.

198·0 18.0 ✓
216·0
15·5 26.5 ✓
42·0 44.5 ✓ +3.53 ✓

193·4 31.0 ✓ +3.27 ✓
224·4
15·3 25.2 ✓
40·5 56.2 ✓ +3.01 ✓

8·30·40
54 30. ✓
8 27 15. ✓
+5 +31. ✓
13 27 46. ✓
~~9375.5610~~ ✓
9041.5610 ✓

Mean +3.42 ✓

Jan. 4. 1911.

Index Right + above A.

II

11.8 28.1 ✓

8.34.50 39.9

195.0 29.0 ✓

224.0 57.1 ✓ +2.97 ✓

10.6 34.1 ✓ + 3.04 ✓

44.7

196.5 19.5 ✓

216.0 53.6 ✓ +3.11 ✓

Index Left + Below B.

280.2

314.6 34.4 ✓

104.2

130.0 25.8 ✓

60.2 ✓ +2.85 ✓

~~286.7~~

286.7 +2.96 ✓

8.42.20 307.5 20.8 ✓

77 10. ✓ 100.2 33.9 ✓

8 38 35. ✓ 134.1 54.7 ✓ +3.07 ✓

+5 +31. ✓

13 39 6. ✓ mean + 3.00 ✓

~~9370.5689~~ ✓

9041.5689 ✓

III ~~IV~~

Jan. 4. 1911.

Index Left + Below B.

III

279.6 34.5 ✓

8.47.50 314.1

102.4 28.5 ✓

130.9 63.0 ✓ +2.75 ✓

283.5 26.2 ✓ +2.78 ✓

309.7

99.8 35.0 ✓ 61.2 ✓ +2.81 ✓

134.8

Index Right + Above A.

190.2

225.3 35.1 ✓

15.5 26.7 ✓

42.2 61.8 ✓ +2.79 ✓

194.6 24.4 ✓ +2.78 ✓

219.0

7.6 37.8 ✓

45.4 62.2 ✓ +2.78 ✓

mean +2.78 ✓

855.20

103 10. ✓

851 35. ✓

+5 +31. ✓

13 51 6. ✓

~~9375.5772~~ ✓

9041.5772

Jan. 4. 1911.

Index Right + above A.

IV

9.1.10

186.9
39.4 ✓
226.3
14.4
27.7 ✓
42.1 67.1 ✓ +2.60 ✓

193.4
29.1 ✓
222.5
+2.44 ✓
1.3 47.7 ✓
49.0 76.8 ✓

Index Left + Below B. +2.29 ✓

96.4
43.8 ✓
140.2
281.4 30.4 ✓
311.8 74.2 ✓ +2.37 ✓

100.6
31.9 ✓
+2.37 ✓
9.8.30
132.5
9 40. ✓
274.6 42.2 ✓
9 4 50. ✓
316.8 74.1 ✓ +2.37 ✓
+5 +31. ✓
14 5 21. ✓

Mean +2.40 ✓

~~9375.5871~~ ✓
9041.5871 ✓

V

Jan. 4. 1911.

Index Left + Below A.

V

9.15.20 100.6 ~~92.5~~
~~9.12.0~~ → 133.3 ~~138.7~~ 32.7
274.0 ~~283.3~~ 48.0
322.0 ~~312.5~~ 80.7 +2.17

93.5 45.8 +2.25
139.3
282.2 29.8
312.0 75.6 +2.33

Index Right + above A.

0.5
50.5 50.0
189.6 34.5
224.1 84.5 +2.06

8.5 36.6 +2.00
45.1
179.0 52.7 +1.93
231.7 89.3

mean +2.12

9.22.50
3 8 10.
9 19 5.
+5 +31.
14 19 36.
~~9375.5969~~
9041.5969

P.A. 352°.0 Ver. B.

W's watch used for times.
Watch 31 secs slow.

L. P. P.

Jan. 5, 1911. (Thursday).

Region of Nova Lacertae.

W. ob. J. R. Ebbetts rec. Phot. T.

22 12	+51.5
26 35	
+4 17	

Measts. of Nova and several visual comparison stars for Nova Lacertae.

For measts. see fol. pages.

Jan. 5. 1911. 6.60 [= visual C.S. a].

B. Index ~~Left~~ l ~~&~~ · comp'd with ~~6.6/0~~ two mag.
~~+Above~~

7.48.40

275.4 45.1
320.5
101.5 35.8
137.3 80.9 +2.17

279.7 32.7 +2.12
312.4
93.2 51.8
145.0 84.5 +2.06

A. Index Right ~~+Below~~

178.2 56.4
234.6
10.2 34.2
44.4 90.6 +1.90

190.5 37.3 +1.92
227.8
0.0 51.7
51.7 89.0 +1.94

7.56.0
10 4 40
7 5 2 20.
+5 +32.
12 52 52.
9042.5367

P.A. 246° Var. B.

mean + 2.02
6.60
magn l = 8.62

∴ l is 2.02 ftr. than a (Phot. magn. a = 6.60)
" l " 8.62 magn.

Jan. 5. 1911.

Index Right ~~Below~~ A.

y' compared with l.

~~l & comp'd with y'~~

~~673~~ y' dis.

8·22·0

67·5

169·1 101.6 ✓

256·3 79.8 ✓

336·1 181.4 ✓ +0.03 ✓

178.6 ✓

76·1 0.00 ✓

153·3 77.2 ✓

246·8 108.2 ✓

348·0 178.4 ✓ −0.03 ✓

~~179.6~~

Index Left B.

344·3

71·8 87.5 ✓

153·1 108.2 ✓

261·3 195.7 ✓ +0.30 ✓

~~3~~ 164.3 ✓

334·0 110.1 ✓ +0.28 ✓

84·1

164·9 83.7 ✓

248·6 193.8 ✓

166.2 ✓ +0.26 ✓

8·10·0

12 20. ✓

8 6 10. ✓

+5 +32. ✓

13 6 42. ✓

9042.5463 ✓

P.A. 88° 0° Var B. +0.14 ✓

8.69

∴ y' is 0.14 magn. ftr. than l. mag y' 8.83

" y' " 8.76 magn.

Jan. 5. 1911.
Index Left B.

Nova ~~variable~~ with y'

8.17.0

183.5
231.4 var. dis.
352.4 47.9 ✓
63.0 70.6 ✓ / 118.5 ✓ $\overline{*}$1.23 ✓

173.6 $\overline{*}$1.2~~3~~8 ✓
241.5 67.9 ✓
4.4 46.0 ✓
50.4 ~~50~~ 113.9 ✓ $\overline{*}$1.33 ✓

Index Right A.
95.0 45.8 ✓
140.8
262.8 65.6 ✓
328.4 111.4 ✓ $\overline{*}$1.39 ✓

88.6 62.7 ✓ $\overline{*}$1.47 ✓
151.3
276.3 41.6 ✓
317.9 104.3 ✓ $\overline{*}$1.55 ✓

$\overline{*}$1.3~~5~~8 ✓
8.86 ✓
magn. above = ~~10.64~~
Nova 7.48 ✓

8.23.20
40 20. ✓
8 20 10. ✓
+5 +32. ✓
13 20 42. ✓
90 42. 5561 ✓

∴ ~~# Nova is 1.35 magn. fts. than y'~~
~~" Nova is 10.14 magn.~~
∴ Nova is 1.38 ✓ brtr. than y'
∴ " " 7.38 ✓ magn.

1910phae.proj..604M

Jan. 5. 1911.

Comp. star with y'

Index Right A.

86·1
150·7 ← comp. star dis.
230·2 64.6
342·7 92.5 / 157.1 $\overset{-}{\cancel{+}}$0.44

8·28·0

73·3
164·5 91.2 −0.44
261·3 66.2
327·5 157.4 −0.43

Index Left B.

351·0
65·0 74.0
162·4 90.1
252·5 164.1 −0.30

$\overset{3}{\cancel{2}}$41·6 −0.26
~~74·5~~ 93.4
75·0
171·2 74.9
246·1 168.3 −0.22

8·34·20
62 20.
8 31 10.
+5 +32.
13 31 42.
9042.5637

P.A. 74° Var B. Diff. magn. −0.35

magn. C, S = 8.86 / 8.51

∴ Comp. Star for Nova is 0.35 brtr. than ~~[illegible]~~.
∴ Comp. Star is 8.41 magn.

Jan. 5. 1911.

(small) r with y'

Index Left B.

88.8 y' dis

8.44.0 140.0 51.2

277.4 42.3

319.7 93.5 +1.82

+1.82

97.4 41.6

139.0 52.5

271.9 94.1 +1.81

324.4

Index right A.

358.8 57.7

56.5 45.4

188.0 103.1 +1.58

231.4

+1.62

8.3 42.7

8.51.0 51.0

180.4 57.1

237.5 99.8 +1.66

95 0.

8 47 30.

+5 +32.

13 48 2. P.A. 243° var. B.

9042.5750

+1.72

∴ r is 1.72 magn. ftr. than y' (r = 8.86 / 10.58

∴ r is 10.~~4th~~ magn.

Jan. 5. 1911
O comp'd with y'
Index Right A.

187.0 ← y' dis
8.59.30 232.4 45.4 ✓
10.2 33.0 ✓
43.2 78.4 ✓ +2.24 ✓

+2.34 ✓

194.5 32.5 ✓
227.0
8.4 39.8 ✓
48.2 72.3 ✓ +2.43 ✓

Index Left B.

102.1 30.0 ✓
132.1
275.0 41.0 ✓
316.0 71.0 ✓ +2.47 ✓

99.5 36.1 ✓ +2.57 ✓
9.6.40 137.6
6 10. ✓ 282.5 27.0 ✓
9 3 5. ✓ 309.5 65.1 ✓ +2.67 ✓
+5 +32. ✓
14 3 37. ✓
9 0 42.5 Avd ✓

+2.46 ✓

As observer found in last half of groups that he was on ^p R instead of ^o R, and it was ~~possible~~ possible that the same was true in the first half of groups. — the above groups was rejected.

Jan. 5. 1911.

p comp'd with y′

Index Left B, 285.0

9.11.10

312.5 — y′ dis

94.0 27.6 ✓

137.6 43.6 ✓

71.2 ✓ +2.47 ✓

277.6 39.0 ✓ +2.50 ✓

316.6

100.5 30.7 ✓

131.2 69.7 ✓ +2.52 ✓

Index Right A.

186.0 41.5 ✓

227.5

13.2 28.2 ✓

41.4 69.7 ✓ +2.52 ✓

194.0 26.4 ✓ +2.52 ✓

220.4

4.2 43.6 ✓

47.8 70.0 ✓ +2.51 ✓

9.13.50
- 25 0, ✓
9 12 30. ✓
+5 · +32, ✓
14 13 2, ✓
9042.5924 ✓

P/A. 244° Vn.B.

+2.51 ✓
8.86 ✓
p = 11.37

∴ p is 2.51 ftr. than y′
∴ p is 11.27 magn.

Jan. 5. 1911.
ε comp'd with y'

Index right A.
352.4 y' dis.
9.25.10 59.9 67.5
180.3 56.2
236.5 123.7 +1.11

358.4 52.6 +1.06
51.0
168.4 75.5
243.9 128.1 +1.02

Index left B.
263.7 70.3
334.0
91.0 49.7
140.7 120.0 +1.19

270.0 +1.15
322.7 ~~320.0~~ 52.7
81.0 71.0
152.0 123.7 +1.11

9.30.45
55 55.
9 27 58.
+5 +32.
14 28 30.
9042,6032

P. A. 73° var B.

+1.10
8.86
ε = 9.96

W's watch used for times.
Watch 32 sec's slow.

∴ ε is 1.10 magn. ftr. than y'
∴ ε is 9.86 magn.

L. P. P.

Jan. 9. 1911. (Monday).

Region of Nova Lacertae.
Phot. R. One prism removed.
22 18 +51.5
27 0
+4 42
W. obs. J. K. Tabbetts rec.

For measts. see pp. 95 and 96.

Jan. 9. 1911.
Nova compared with C.S. 2.5 north of it.
Index Left + Below B.

279.9 — Nova dis.
8.3.40 336.2
90.5 56.3
168.0 77.5
133.8 −0.90

270.3 75.7 −0.92
346.0
100.6 56.4
157.0 132.1 −0.94

Index Right + Above A.

191.7 53.2
244.9
1.7 74.9
76.6 128.1 −1.02

181.0 76.8 −0.97
8.11.15 257.8
14 55. 11.0 55.9
8 7 28. ~~66~~ 66.9 132.7 −0.92
+5 −1 12.
13 6 16.
9046.5460

mean −0.94
8.56
Magn. Nova = 7.62

L. A. P.

Jan. 9. 1911.
Same again.
Index Right + above

191.5
8.14.50 246.9
359.0 76.1
75.1 ~~101.5~~
131.5 -0.95

180.7
258.4
8.7
Clouds.

A second group (above) was attempted through denser cloud conditions, but it could not well be finished.
The group on preceding page is O. K. although troubled somewhat by clouds. and the first set above agrees with it also.

L. P. P.

W's watch used for times
Watch 1 min. 12 sec's fast.

L. P. P.

Jan. 10. 1911. (Tuesday).

Region of Nova Lacertae. Phot. T.
Lr. obs. J. K. Tebbetts rec.

22 18 +51.5
26 50
+4 32

For measts., see fol. pages.

Jan. 10, 19~~10~~11
Index Left. B.
l £. compared with a (6.60 phot. magn.).

1
~~8~~.52.0

96.1 < a dis.
~~lm~~ 139.8
281.8 43.7
312.0 30.2
73.9 +2.38

101.0 33.6 +2.30
134.6
272.5 45.4
317.9 79.0 +2.22

Index Right A.
355.7 56.3
52.0
192.7 34.9
227.6 91.2 +1.88

9.0 36.6 +1.90
45.6
181.1 53.5 +1.91
~~235.0~~
234.6 90.1

7
~~8~~.57.40
9 40.
7 54.50.
+5 -4
12 54 46.
9047.5381

Mean +2.10
6.60
8.70

∴ l is 2.10 ftr than a
∴ l " 8.70 magn.

Jan. 10. 1911

Index Right A,

l comp'd with γ'

79.2

8.4.30 157.1 ← ← γ' dis.

246.5 77.9 ✓

346.0 99.5 ✓

177.4 ✓ ∓0.05 ✓

63.4 106.6 ✓ −0.02 ✓

1~~7~~80.0

260.4 74.4 ✓

334.8 181.0 ✓ +0.02 ✓

Index Left 179.0 B.

333.2 110.7 ✓

83.9

163.3 88.3 ✓

251.6 199.0 ✓

161.0 ✓ +0.36 ✓

343.0

8.11.50 74.0 91.0 ✓ +0.40 ✓

16 20. ✓ 150.6 111.9 ✓

8 8 10. ✓ ~~260~~ 202.9 ✓

+5 −4. ✓ 262.5 157.1 ✓ +0.44 ✓

13 8 6. ✓

9047.5473 ✓

mean +0.19 ✓

8.69 ✓

magn γ' = 8.88 ✓

Jan. 10. 1911.
Nova comp'd with γ'
Index Left B.

358.4 Nova dis.
8.17.0 58.0 59.6
170.7
246.4 75.7
135.3 −0.87

351.5
~~640~~ 72.0 −0.92
63.5
177.8 58.4
236.2 130.4 −0.97

Index Right A.

90.8 ~~261.7~~
142.2 ~~329.9~~ 51.4
263.7
331.6 67.9
119.3 −1.21

82.9 −1.20
8.24.30 153.0 70.1
41 30. 272.0 49.8
8 20.45. 321.8 119.9 −1.19
+5 −4.
13 20 41.
9047.5561

Mean −1.06
8.86
Mag. Nova = 7.80

Jan. 10, 1911.
Index Right A.
y' with the comparison star for Phot. R.

262.4
8.27.10 329.6 Comp. star dis.
67.2
73.0
93.3
166.3 160.5 −0.37

252.8 88.3 −0.38
341.1
81.1 72.0
153.1 160.3 −0.38

Index left B.

166.6 77.4
244.0
337.4 97.0
74.4 174.4 −0.11

159.6 94.9 −0.18
254.5
350.0 73.6
62.6 167.5 −0.24

8.33.50
61 0
8 30 30.
~~+5~~ −4.
13 30 26.
9047.5628

mean −0.28

Magn. C.S. = 8.86 / 8.58

Jan. 10. 1911

Index Left B.

ε ☿ comp'd with y'

84.4 ← y' dis

8.40.20 148.0 63.6 ✓

272.4 58.6 ✓

~~3~~321.0 122.2 ✓ +1.14 ✓

~~89.8~~ 89.9 51.5 ✓ +1.24 ✓

141.4 61.6 ✓

266.9 113.1 ✓ +1.35 ✓

328.5

Index Right A.

349.5 ~~350.2~~ 72.3 ✓

61.8 ~~61.7~~

179.4 55.0 ✓

127.3 +1.04 ✓

234.4

1.0 54.8 ✓ +0.99 ✓

8.49.50 55.8

9 0 10. 168.7 76.9 ✓

8 45 5. ✓ 245.6 131.7 ✓ +0.94 ✓

+5 -4. ✓

13 45 1.

9047.5729 ✓

Mean +1.12 ✓

W's watch used for times 8.86 ✓

Watch 4 sec's fast. Magn. ε = 9.98 ✓

Measurements made with more or less difficulty, through varying clouds.

L. A. P.

Jan. 12. 1911. (Thursday).

Region of Nova Lacertae

22 18 +51,5
26 57
+4 39

28 22
25 4

For measts. see fol. pages.

Jan 12, 1910
Index Left B
l & comp'd with a

95.5 ← a dis.
7.23.20 140.0 44.5
280.4
311.5 31.1
75.6 +2.33

103.0
133.5 30.5 +2.30
273.3 46.6
319.9 27.1 +2.28

Index Right A
0.0
54.5 54.5
193.5
224.9 31.4
85.9 +2.03

10.8 35.7
7.29.40 46.5 +2.00
53 0. 182.2 52.3
7 26 30. 234.5 88.0 +1.97
+5 -46.
12 25 44
9049.5179

+2.15
6.60
Magn. l = 8.75

Jan. 12. 1910.
Index Right A
l l comp'd to y'

245.5 102.8
7.35.50 348.3 ← y' dis.
78.0 79.4
157.4 182.2
177.8 +0.04

257.5
337.5 80.0 +0.04
66.3 101.7
168.0 181.7
178.3 +0.03

Index left B

153.5 108.1
261.6
345.0 86.1
71.1 194.2
165.8 +0.27

165.7 84.8
7.43.40 250.5 +0.29
79 30. 331.5 111.7
7 39 45 83.2 196.5
+5 −46 163.5 +0.31
12 38 59.
9049.5271

+0.16
8.69
Mean y' = 8.85

Jan. 12, 1911
Index Left B
y' with the comp. star.
170.9
7.52.10 243.7 ← comp. star dis
338.0 72.8
74.0 96.0
168.8 −0.21

156.1 102.7
258.8 −0.11
349.4 76.8
66.2 179.5 −0.01
Index Right A
71.1 95.7
166.8
263.2 67.7
330.9 163.4 −0.32

85.5 64.2 −0.41
7.59.20
111 30. 149.7
7 55 45. 251.1
+5 −46. 341.0 89.9
12 54 59. 154.1 −0.50
9049.5382

−0.26
8.86
Magn. C.S. = 8.60

Jan 12. 1911

Index Right A

nova with γ'

260.4 71.6

8.46.50 332.0 nova dis.

95.9 46.0

141.9 117.6 −1.25

−0.87

273.0

347.8 74.8

76.7 79.7

156.4 154.5 −0.49

Index Left B

179.0

237.0 58.0

345.5 81.0

66.5 139.0 −0.79

−0.72

~~0.82~~

166.8 79.2

8.53.15 246.0

100 5. 350.0 66.5 −0.66

8 50 2. 56.5 145.7 ~~0.86~~

+5 −46.

13 44 16. W's watch used for times. −0.84

9049.5759 Watch 46 secs fast. 0.86

[illegible] = 0.06

L. P. P.

Jan. 16. 1911. (Monday)
~~Jan. 2/1911.~~

~~Index~~
R Z Draconis.

19 4 +58.3
27 20
+8 16.

Abandoned.

Nova Lacertae.

22 18 +51,5
27 23
+5 5

For meas'ts, see fol. pages.

Jan 16.1911
Index Left B
Comp. star with γ'

346.5 = comp. star-dis
7-34.30 65.8
79.3 ✓
156.7
255.7 99.0 ✓
~~148.3~~
178.3 ✓ −0.04

341.0
93.0 ✓
74.0
−0.18

169.9
70.1 ✓
~~24~~ 240.0 163.1 ✓ −0.32

Index Right A
265.3
65.6 ✓
330.9

69.8
91.9 ✓
161.7
157.5 ✓ −0.43

253.8
85.6 ✓
7.42.40 339.4 −0.48
7 7 10. ✓
85.5
66.8 ✓
7 38 35. ✓ 152.3
152.4 ✓ −0.53
45 −8 ✓
12 38 17. ✓
9053.5266 ✓

−0.33
8.86
Magn. C.S. = 8.53

Jan 16, 1911
Index Right A
Nova with y′
267.2
7.46.0 324.5 < Nova dis
79.5 57.3
157.5 78.0
135.3 −0.87

256.6 77.9 −0.88
334.5
89.1 56.8
145.9 134.7 −0.88
Index Left B
161.4 90.4
251.8
357.4 58.3
55.7 148.7 −0.60

176.5 62.3 −0.64
7.53.30 238.8
99 35. 344.3 82.4
7 89 45. 66.7 144.7 −0.68
+5 −8.
12 49 37
9053.5344

−0.76
8.86
Magn. Nova = 8.10

Jan. 16. 1911
Index left B
Same Again

163.0
7.57.15 230.0 ∠ nova dis.
354.8 87.0✓
58.2 63.4✓
~~130.4~~✓ −0.97
150.4
~~176.7~~
175.8 64.2✓ −0.78
240.0
344.5 84.5✓
69.0 148.7✓ −0.60

Index Right A
78.3
157.5 79.2✓
269.5
322.4 52.9✓
132.1✓ −0.94

91.2 50.6✓ −1.00
8.8.30 ~~141.9~~ 141.8
259.5
335.5 76.0✓
126.6✓ −1.05

5 45.✓
8 2 52.✓
+5 −8✓
13 2 44.✓
905 3. 5436✓

−0.89
Gen mean −0.82

−0.89✓
8.86✓
Magn. Nova = 7.97✓
Gen. " " = 8.04✓

Jan. 16. 1911.

Double Star (New List). =
(Burn. Cat.) No. 2833.

5	29	−6.1
4	45	
−0	44	
+11	16	

For meast. see fol. page.

Jan 16. 1911

Index Left + Below B

92.1

8.50.15 164.0 71.9

277.6 64.0

341.6 135.9 0.86

0.82

93.5 68.1

161.6 71.3

271.5 139.4 0.79

34~~2~~3.8

Index Right + Above A

1.5

72.4 70.9

183.4 67.4

250.8 138.3 0.81

0.84

5.5 65.0

8.56.30 70.5 70.8

166 45. 182.1 135.8 0.86

8 53 22. ~~253~~

+5 8 252.9 mean 0.83

13 53 14. ~~U. foll and brit brite~~

905 3.57 86 U. fol. and brite dis.

Seeing somewhat blurry in and about observation of double star.

L. P. P.

W's watch used for times

Watch 2 min's 8 sec's fast

Jan. 17. 1911. (Tuesday).

Nova Lacertae.

22 18 +51.5
27 19
+5 1

Jan. 17. 1911

Index Left B

l * with a

92.4

7.24.45 140.2 ∠ adis.

47.8 ✓

280.6

31.4 ✓

312.0 79.2 ✓ +2.22 ✓

99.4 34.8 ✓ +2.21 ✓

134.2

44.9 ✓

274.6 79.7 ✓ +2.20 ✓

319.5

Index Right A.

355.4 61.5 ✓

56.9

189.8 76.2 ✓

266.0 137.7 ✓ 0.82

9.0 38.0 ✓

7.32.20 47.0

57 5. ✓ 178.5 59.8 ✓

7 28 32. ✓ 238.3 97.8 ✓ 1.71

+5 -2 30 ✓

12 26 2. ✓

9054. 5181 ✓

Something wrong. Reject this group.

Jan 17. 1911

Index Right + Above A

l * with y'

160.0 ← l * dis ✓

7.40.20 259.4

347.5 99.4 ✓

67.0 79.5 ✓

178.9 ✓ +0.02 ✓

168.1 75.5 ✓ +0.02 ✓

243.6

334.1 102.7 ✓

76.8 178.2 ✓ +0.03 ✓

Index Left + Below B

73.1 84.8 ✓

157.9

261.0 71.3 ✓

332.3 156.1 ✓ +0.46 ✓

82.8 68.7 ✓ +0.38 ✓

7.47.0 151.~~4~~5

87 20 ✓ 247.9 95.7 ✓

7 43 50 ✓ 343.6 164.4 ✓ +0.30 ✓

+5 −2 30 ✓

12 41 10 ✓

905 45 5286 ✓

+0.20 ✓

8.69

magn. y' = 8.89

∴ y' is 0.20 magn. fts. than l.

Jan 17.1911

Index left B

r ☆ with γ'

281.7

7.54.45 316.4 ← ~~dis~~ γ' dis

103.5 34.7 ✓

130.5 27.0 ✓

61.7 ✓ 2.80 ✓

2.70 ✓

281.1 29.9 ✓

311.0

99.0 37.1 ✓

136.1 67.0 ✓ 2.61 ✓

Index Right A

187.6 39.4 ✓

227.0

7.6 33.9 ✓

41.5 73.3 ✓ 2.40 ✓

193.2 29.4 ✓ 2.40 ✓

222.6

4.4 43.8 ✓

48.2 73.2 ✓ 2.40 ✓

8.2.0

11 6 45. ✓

7 58 22. ✓

45 -2 30. ✓

12 55 52 ✓

905 4.5388 ✓

+2.55 ✓

8.86

magn. r = 11.41 ✓

Jan. 17. 1911
Index Right A
2 with γ'

352.5
8.9.50 63.1 ← γ' dis
179.3 ~~90.6~~ 70.6
234.0 ~~54.7~~ 54.7
~~145.3~~ 125.3 +1.08

358.5 57.2
55.7 +1.03
170.1 72.9
243.0 130.1 +0.98

Index Left B
262.2
328.1 65.9
96.0 43.9
139.9 109.8 +1.42

+1.38
274.2 47.4
321.6
84.4 66.0
150.4 113.4 +1.34

8 18.0
2) 50.
8 13 55.
+5 -2 30.
13 11 25.
90 54. 5496

+1.20
8.86
Mean. ε = 10.06

Jan 17 1911

Index Left + Below B

nova with 4'

160.0

8.22.30 254.5 ← nova dis

351.5 94.5

60.9 69.4

163.9 −0.30

170.9 68.9 −0.34

239.8

339.9 91.3

71.2 160.2 −0.32

Index Right + Above A

74.6 86.6

161.2

267.4 58.1

325.5 144.7 −0.68

−0.72

89.9 57.6

8.30.10 147.5

52 40.0 255.0 82.4

8 26 20.0 337.4 140.0 −0.77

+5 −2 30.

13 23 50.

9054.5582

−0.53

8.86

Mag. Nova = 8.33

Jan 17 / 1911

Comp. Star with γ′
Index Right A

72.5 Comp Star obs
8.35.0 165.2 92.7 ✓
262.3 69.2 ✓
331.5 161.9 ✓ −0.34 ✓

86.9 64.6 ✓ −0.34 ✓
151.5
250.3 97.2 ✓
347.5 161.8 ✓ −0.35 ✓

Index left B
348.9 73.1 ✓
62.0
158.6 98.2 ✓
256.8 171.3 ✓ −0.16 ✓

337.8 −0.17 ✓
~~77~~76.7 98.9 ✓
170.6 71.6 ✓
242.2 170.5 ✓ −0.18 ✓

8.41.50
.76 50. ✓
8 38 25. ✓
+5 −2 30. ✓
13 35 55 ✓
9054.5666 ✓

−0.26 ✓
8.86 ✓
8.60 = magn. 5.05

W's watch used for times
Watch 2 mins 30 secs fast

L. A. P.

Jan. 12. 1911. (Wednesday).

Region of ~~R~~ Nova Lacertae.

```
 22   12    +5/.5
 27   20
 +5    2
```

For results, see fol. pages.

Jan. 18. 1911
Index Left B
Ω with γ'

98.1
7.21.30 131.4 γ' dis. 33.3
283.5 26.7
310.2 60.0 +2.86

102.1 26.5 +2.72
128.6
276.5 41.4
317.9 67.9 +2.58

Index Right A
358.9 49.1
48.0
193.3 31.7
225.0 80.8 +2.17

12.2 30.8 +2.23
7.34.20 43.0
55 50.
7 27 55. 184.5 46.0
+5 −2 48. 230.5 76.8 +2.29
12 25 7
90 55. 5 17 5

+2.48
8.86
Magn. Ω = 11.34

Jan. 18. 1911
Index Right A
(with phot re)
Comp. star with y'

266.8 comp. star
329.0 ← dis
62.2
71.5
91.2
162.7
153.4 −0.51

7.51.0

247.6 94.8 −0.42
342.4
83.5 68.5
163.3 −0.32
152.0

Index Left B
169.1 74.9
244.0
337.3 99.2
76.5 174.1 −0.11

157.0 97.8 −0.19
254.8
351.0 67.8
58.8 165.6 −0,27

8.0.0
111 0
7 55 30.
+5 −2 48
12 52 42
9055.5366

−0.30
8.86
Magn. C.S. = 8.56

Jan. 18. 1911
Nova with γ'
index ~~left~~ β
161.2 Nova dis

8.4.0.

252.0 90.8
354.8 65.2
60.0 156.0 −0.46

175.1 63.7 −0.50
238.8
340.8 87.8
68.6 151.5 −0.55

index right A
75.0 86.0
161.0
266.5 59.2
325.7 145.2 −0.67

89.1 56.9 −0.73
146.0
256.4 82.4
338.8 139.3 −0.79

8.12.20

16 20.
8 8 10.
45 −2 48.

13 5 22

9055.5454

−0.62
8.86
Magn. Nova = 8.24

Jan 18. 1911
Index Right A
l l. with a

359.4

8.25.30 53.5 — a dis

189.3 54.3 ✓
226.5 37.2 ✓
91.5 ✓ +1.87 ✓

9.0
45.4 36.4 ✓ +1.89 ✓

180.9 53.6 ✓
234.5 90.0 ✓ +1.91 ✓

Index left B

276.5
320.3 43.8 ✓

101.0
133.0 32.0 ✓
75.8 ✓ +2.32 ✓

283.1 29.9 ✓ +2.26 ✓
313.0

8.33.10
58 40. ✓
8 29 20. ✓
+5 −2 48. ✓
13 26 32 ✓

9055.5601 ✓

91.6 49.5 ✓
141.1 79.4 ✓ +2.21 ✓

+2.08 ✓
6.60 ✓
Mean. l = 8.68 ✓

W's watch used for times.
Watch 2 min's 48 sec's fast.

Jan 18, 1911

Double Star (new list) =
Burnham's Cat., 2833

√ 29 −6.1
√ 8
~21
23 39

For measts. see fol. pages.

Jan 18 / 1911

Index Left + Below B

9.1.25

273.3
344.5 71.2
94.0 66.2
160.2 137.4 0.03

2763 62.2 0.05
338.5
91.3 73.2
164.5 135.4 0.07

Index Right + Above A

182.4
253.5 71.1
5.0 65.3
70.3 136.4 0.05

185.4 65.6 0.04
251.0
3.0 71.4 0.03
74.4 137.0

9.7.50

9 N.
9 4 30
45 -2 40.
14 1 50
9055.5046

Mean 0.04

L. P. P.

Jan. 23, 1911. (Monday)

Region of Nova Lacertae.

22 18 +5.1.5
27 51
+5 33

For measts. of Nova see two fol. pages.

Jan 23, 1911

Index Left B.

Nova with γ'

344.5

7.30.50 70.2 ← nova dis

178.8 ~~30.7~~ 85.7 ✓

236.6 ~~57.8~~ 57.8 ✓

~~93.5~~ 143.5 ✓ −0.70 ✓

357.0 61.2 ✓

58.2 −0.66 ✓

162.1 86.7 ✓

248.8 147.9 ✓ −0.62 ✓

Index Right A.

258.0

335.5 77.5 ✓

90.2 55.7 ✓

145.9 133.2 ✓ −0.91 ✓

269.4 54.1 ✓ −0.94 ✓

7.37.25 323.5

68 15. ✓ 79.8 76.7 ✓

7 34 8. ✓ 156.5 130.8 ✓ −0.96 ✓

+5 −17. ✓

12 33 51 ✓

9060.5235 ✓

Mean −0.80 ✓

Magn. γ' = 8.86 ✓

" Nova = 8.06 ✓

Jan 23, 1911
Index Right
Same again

~~5~~ 59.0 ← no radio A.
7.41.5 Assume 1~~8~~34.1 751
89.5
147.0 57.5
132.6 −0.92

268.4
55.8 −0.86
324.2
75.2
82.2
157.4 138.0 −0.81
Index Left B.
164.2
86.7
250.9
355.2
62.9
58.1 149.6 −0.58

177.0 61.5 −0.62
7.47.30 238.5
·8 35. 342.1 84.0
7 44 18. 66.1 145.5 −0.66
+5 −17. P.A. 80°-9′ Var. B.
12 44 1
9060.5306

−0.74
Gen. mean −0.77
magn. y′ = 8.86
Final magn. Nova = 8.09

Jan 23 1911
Index left B.
Comp. Star (with pendt on) with y'

165.3 ← comp. star dis
8.0.10 245.5 80.2
339.0
80.6 101.6 / 181.8 +0.03
178.2
157.0 −0,06
258.0 101.0
352.5
63.8 71.3 / 172.3 −0.14

Index Right A.
84.0 68.0
152.0
250.9 90.3
341.2 158.3 −0.41

69.0 97.5 −0,38
166.5
264.0 64.8
328.8 162.3 −0,34

8.6.30
6 40
8 3 20,
+5 −17,
13 3 3,
9060.5438

Mean −0.22
Magn. y' = 8.86
" C.S. = 8,64

Jan 23 1911

Same Again

Index Right A.

83·0

8·9·10 152·5 ← comp. standard dis.

254·0 69.5 ✓

341·0 87.0 ✓ / 156.5 ✓ −0.45 ✓

67·6

165·7 98.1 ✓ −0.40 ✓

266·0

329·9 63.9 ✓ / 162.0 ✓ −0.34 ✓

Index Left B.

347·6

65·2 77.6 ✓

158·9 99.1 ✓

258·0 176.7 ✓ −0.06 ✓

336·3 101.7 ✓ −0.09 ✓

78·0

171·0 72.0 ✓

243·0 173.7 ✓ −0.62 ✓

8·15·50

25 0 ✓

8 12 30 ✓

+5 −17. ✓

13 12 13. ✓

9060.5501 ✓

P.A. 73° − 6 Var. B.

−0.24 ✓

Gen. mean −0.23 ✓

8.86 ✓

(Compar. C.S. for with Phot R.] = 8.63 ✓

Jan. 23. 1911

Double Star (new list) = Bu. Cat. 2883.
W. obs. J. K. Tebbetts rec.
Phot.: R. One prism removed.

5 33 -2,7
~~4 46~~
5 6
0 27
23 33

Bu. 2883 (AB with C)
P. A. 61° Dist. 42". mags. 4.0, 6.3.
~~P. A. 54° Dist. 13", mags. 4.0, 7.0~~

For measts. see p. 134.

Jan 23. 1911

Index left + below

203.1
8.45.0 233.0 29.9 ✓
23.0 31.8 ✓
54.8 61.7 ✓ 2.80 ✓

202.8 30.8 2.80 ✓
233.6
23.5 30.9
54.4 61.7 2.80 ✓

Index Right + Above

111.6 34.4 ✓
146.0
291.2 32.9 ✓
324.1 67.3 ✓ 2.60 ✓

111.5 32.9 ✓ 2.65 ✓
8.51.25 144.4
293.0 31.5 ✓
324.5 64.4 ✓ 2.70 ✓

96 25. ✓
8 48 12. ✓
+5 -17. ✓
13 47 55. ✓
9060.5749 ✓

2.72 ✓

Jan 23 1911

2883 (AB with D) - P.A. 84°. Dist. 13″ (4.0, 7.5)
Index Right + Above

8.54.15
113.0 30.6 ✓
143.6
292.2 32.4 ✓
324.6 63.0 ✓ 2.75 ✓

2.72 ✓

112.0 31.5 ✓
143.5 33.3 ✓
291.9 64.8 ✓ 2.68 ✓
325.2

Index Left + Below

23.1 20.5 ✓
43.6
203.1 33.3 ✓
236.4 53.8 ✓ 3.11 ✓

~~20.7~~

20.7 34.1 ✓ 2.92
9.1.20 54.8 29.7 ✓
11 5 35. ✓ 203.3 63.8 ✓ 2.72
8 57 48. ✓ 233.0 2.82 ✓
45 -17. ✓
13 57 31. ✓
9060.5816 ✓

W's watch used for times.
Watch 17 sec's fast.

L. P. P.

June 28, 1911. (Saturday).

Region of Nova Lacertae.

22 18 +51.5
28 9
+5 51

For measts., see fol. page.

Jan 28 1911
Index left B.
Nova with χ'

174.4
7.29.30 238.5 ← nova dis
64.1 ✓
338.6
72.1 93.5 ✓
157.6 ✓ −0.43 ✓

156.3 93.9 ✓ −0.40 ✓
250.2
353.0 66.6 ✓
59.6 160.5 ✓ −0.37 ✓

Index right A.

88.9
151.0 62.1 ✓
256.8
337.4 80.6 ✓
142.7 ✓ −0.72 ✓

80.9 77.7 ✓ −0.80 ✓
158.6
269.4 57.4 ✓
326.8 135.1 ✓ −0.87 ✓

7.36.0
6 5 30. ✓
7 32 45. ✓
+5 1 59. ✓
12 34 44 ✓
9065. 5241 ✓

−0.60 ✓
0.86 ✓
0.26 ✓

Jan 28 1911

Index Right + Above A,

t with y′

19.6.3 ~~11.0~~

~~7.39.40~~ 214.9 ~~45.3~~ ← y′ dis

7.41.50 → 8.6 18.6

46.0 37.4

56.0 +3.02

191.2 29.8 +3.10

221.0

14.0 22.0

236.0 51.8 +3.19

Index Left + Below B.

101.5 30.9

132.4

284.5 21.0

305.5 51.9 +3.20

108.4 +3.16

7.51.20 128.1 19.7

9 3 10. 278.8 33.5

7 46 35. 312.3 53.2 +3.13

+5 1 59.

12 48 34

9065.5337

+3.13

8.86

11.99

Jan 28 1911

Index Left + Below ß.

n with y′

95.5

7.55.30 140.0 ← y′ dis

286.2 44.5 ✓

310.7 24.5 ✓

69.0 ✓ +2.54 ✓

105.0 +2.66 ✓

129.3 ~~131.0~~ 24.3 ✓

277.4 37.7 ✓

315.1 62.0 ✓ +2.79 ✓

Index Right + Above A.

3.8 45.3 ✓

49.1

192.6 27.1 ✓

219.7 72.4 ✓ +2.43 ✓

+2.42 ✓

12.5 29.0 ✓

8.4.20 41.5

119 50. ✓ 186.4 43.6 ✓

7 59 55. ✓ 230.0 72.6 ✓ +2.42 ✓

+5 1 59. ✓

13 1 54 ✓

9065.5430 ✓

+2.54 ✓

8.86 ✓

11.40 ✓

Jan 28 1911

Index Right A₁

q ~~a~~ with y'

189.5

8.11.25 229.0 y' < dis

39.5 ✓

13.8

24.0 ✓

37.8 63.5 ✓ +2.73 ✓

194.0 26.5 ✓ +26.5 ✓

220.5

5.7 41.6 ✓

~~4~~47.3 68.1 ✓ +2.57 ✓

Index Left B.

100.0

34.6 ✓

134.6

284.0 24.0 ✓

308.0 58.6 ✓ +2.91 ✓

104.0 +2.88 ✓

27.1 ✓

8.21.10

131.1

32 35. ✓

278.8 33.6 ✓

8 16 18. ✓

312.4 60.7 ✓ +2.84 ✓

+5 1 59. ✓

13 18 17 ✓ P. A. 61° ver. B.

906 5. 55 44 ✓

~~+2.78~~

+2.76 ✓

8.86 ✓

11.62 ✓

Jan 28 1911

Index Left B

p with γ'

96.2

8.25.40 137.2 γ' dis

283.8 41.0 ✓

308.4 24.6 ✓

65.6 ✓ +2.66 ✓

103.5 25.5 ✓ +2.62 ✓

129.0

275.2 42.7 ✓

317.9 68.2 ✓ +2.57 ✓

Index Right A.

3.0

50.7 47.7 ✓

191.8 32.5 ✓

224.3 80.2 ✓ +2.19 ✓

11.4 30.6 ✓ +2.20 ✓

8.34.45 42.0

60 25 ✓ 184.6 48.4 ✓ +2.22 ✓

8 30 12. ✓ 233.0 79.0 ✓

+5 1 59. ✓ +2.41 ✓

13 32 11. ✓ P. A. 243°.5 for B. 8.86 ✓

9065.5640 11.27 ✓

Jan 28 1911
Index Right A.
δ with γ'

175.0 γ' dis
8.42.10 242.6 67.6
3.0 47.0
50.0 114.6 +1.31

182.0 52.4 +1.10
234.4
344.0 81.6
63.6 134.0 +0.98

Index Left B

83.9 65.2
149.1
273.8 47.0
320.8 112.2 +1.37

94.9 47.6 +1.36
8.48.15 142.5 65.3
9 0 25. 263.0 112.9 +1.35
8 45 12. 328.3
+5 1 59. P.A. 60°+2 Var B. +1.23
13 47 11 8.86
9065.5744 W's. watch used for times 10.09
Watch 1 min 59 sec's slow.

L. P. P.

Jan. 30. 1911. (Monday).

Region of Nova Lacertae.

22 18 +51,5
24 8
+5 50

For measts. see fol. pages.

Jan 30 1911

Index Left + Below B

Nova with x'

344.0

7.15.30 70.6 nova ∠ dis. 86.6

175.0 62.6

237.6 149.2 − 0.59

354.6 66.8 −0.54

61.4

161.3 87.7

249.0 154.5 − 0.49

Index Right + Above A.

251.9

341.0 89.1

87.8 63.7

151.5 152.8 − 0.52

267.2 60.1 −0.67

7.21.30 327.3

76.7 77.8

154.5 137.9 − 0.82

7.21.30		
37		0.
7	18	30
+5		−8.
12	18	22.

9067.5128

−0.60

8.86

Nova = 8.26

Jan 30. 1911

Index Right + Above A.

t with y'

193.0

217.5 dis

7.29.50

10.2 24.5

42.4 $\frac{32.2}{56.7}$ +2.99

188.0 32.0 +3.02

220.0

16.1 $\frac{23.5}{55.5}$ +3.04

39.6

Index Left + Below B.

104.8 26.2

131.0

289.6 $\frac{20.3}{46.5}$ +3.43

309.9

~~t~~

+3.34

109.4 16.1

7.42.40

125.5

72 30.

279.6 34.4

7 36 15.2

314.0 $\frac{34.4}{50.5}$ +3.25

+5 -8.

12 36 7.

+3.18

9067.5251

$t = \frac{8.86}{12.04}$

Jan 30 1911
Index Left B.
q with γ
281.8
7.49.30 315.2 ∠ γ's dis
106.0 33.4 ✓
129.6 23.6 ✓
57.0 ✓ +2.98 ✓

286.2 24.4 ✓ +2.94 ✓
310.6
101.4 34.6 ✓
59.0 ✓ +2.90 ✓
136.0.
Index Right A.
192.1 34.1 ✓
226.2
15.6 24.9 ✓
40.5 59.0 ✓ +2.90 ✓

+2.86 ✓
196.2 25.1 ✓
7.57.50 221.3
107 20. ✓
7 53 40. ✓ 7.5 35.7 ✓
+5 -8. ✓ ~~43.2~~ 60.8 ✓ +2.83 ✓
43.2
+2.90 ✓
8.86 ✓
17 53 32. ✓
q = 11.76 ✓
9067.5372 ✓ P. A. 61°-0 from B

Jan 30 1911

Index Right A.

p within γ'

5.2

8.1.10 48.0 — γ' dis

193.3 42.8✓

223.2 29.9✓

72.7✓ +2.42✓

11.5 32.4✓ +2.37✓

43.9

184.2 43.4✓ +2.32✓

227.6 75.8

Index left B.

96.4 40.5✓

136.9

283.4 27.5✓

310.9 68.0✓ +2.57✓

+2.57✓

103.9 27.6✓

8.13.10 1315 40.6✓

14 20.✓ 278.0 68.2✓ +2.57✓

8 7 10.✓ 318.6 +2.47✓

+5 −8.✓ 8.86✓

13 7 2.✓ P.A. 64°.0 Var B. p = 11.33✓

9067.5465✓

Jan 30 1911

Index Left B

δ with y'

265.9 y' dos

8.19.0 331.0 65.1

92.9 50.1

143.0 115.2 +1.30

275.0 45.0 +1.30

320.0

81.3 69.7

151.0 114.7 +1.31

Index Right A

170.7

244.4 73.7

1.7 49.4

51.1 123.1 +1.13

184.6 49.8 +1.17

8.26.20 234.4

4 5 20. 349.6 69.4

8 22 40. 59.0 119.2 +1.21

+5 −8. +1.24

13 22 32. P.A. 241°.0 Var. B 8.86

9067.5573 δ = 10.10

W's watch used for times

Watch 8 secs fast

L. P. P.

Jan. 31. 1911. (Tuesday)

Region of Nova Lacertae.

22 18   +51.5
28 12
+5 54

Clouded up immediately.

Feb. 1. 1911. (Wednesday).

7 11 Rather cloudy.

7 20 Cloudiness increasing.
Storm coming.

Feb. 11. 1911. (Saturday).

~~Reg.~~ Nova Lacertae. Phot. R (1 prism)
W. ob. Tebbutts rec.

22 18 +51.5
28 55
+6 37

22 18
29 26
+7 8

C. S. = +51° 3420 (8.7) Ph. mag. 8.57.
(C. S. is North of and adjacent to Nova).

Feb 11 / 1911

Index Below B.

358.0 ~~172.8~~

8.5.30 72.5 268.0 Comp Star-dia.

168.7 74.5

265.6 96.9

171.4 +0.16

347.8 +0.12

86.5 98.7

178.7 77.3

256.0 176.0 +0.08

Index above. A.

272.9 66.1

339.0

86.4 89.6

176.0 155.7 +0.46

+0.46

265.7 87.1

8.13.0 352.8

18 30. 95.5 69.5

8 9 15. 156.6 +0.45

+5 +18 165.0

13 9 33

9079.5483

+0.29

8.57

Magn. Nova 8.86

Feb. 11. 1911.
Double Star (new list) = Bu., Cat.
No. 2883. AB + E.

5 34 −2.7
6 1
+0 27

P.A. 61° Dist. 40.″ mag. 4.0, 6.3

For measts. see fol. page.

Feb 11 1911

Index Left + Below

8.26.40

23.0
52.6 29.6 ✓
202.6 31.3 ✓
233.9 60.9 ✓ 2.83 ✓

22.6 30.2 ✓ 2.84 ✓
52.8
203.2 30.0 ✓ / 60.2 ✓ 2.85 ✓
233.2

Index Right + Above.

293.6
~~232.~~ 29.2 ✓
322.8
111.6 32.4 ✓
144.0 61.6 ✓ 2.80 ✓

293.5 30.5 ✓ 2.83 ✓
324.0
113.6 29.4 ✓
143.0 59.9 ✓ 2.86 ✓

Mean 2.84 ✓

8.32.50
59 30. ✓
8 29 45. ✓
+5 +18. ✓
13 30 3. ✓
9079.5625 ✓

~~N. pol on~~

S: prec: and bith dis:

W's watch used for times

Watch 18 sec's slow.

L. P. P.

Feb. 15. 1911. (Wednesday):

Nova Lacertae. Phot. R. (1 prism)

W. Obs. Tebbutts rec.

22 18 +51.5

29 12

+6 54

For measts. see fol. page.

Feb. 15. 1911

Index Above A.

81.7
7.19.45 177.2 ← comp star. dis.
95.5 ✓
274.3 68.8 ✓
343.1 164.3 ✓ +0.30 ✓

93.3 70.7 ✓ +0.31 ✓
164.0
261.9 92.4 ✓
354.3 163.1 ✓ +0.32 ✓

Index Below B.

354.0 91.0 ✓
85.0
184.6 67.4 ✓
252.0 158.4 ✓ +0.41 ✓

3.1 71.8 ✓ +0.36 ✓
74.9 ✓
172.5 91.7
264.2 163.5 ✓ +0.31 ✓

mean = +0.34 ✓

8.57 ✓
magn. = 8.91 ✓

7.27.0
46 45. ✓
7 23 22. ✓
+5 -54. ✓
12 22 28 ✓
9083.5156 ✓

Feb. 15. 1911

Double Star (new list) = Bu. Cat.
2AA3, ~~AB, de~~ AB.+E.
P. A. 61°, Dist. 42". mag. 4.0, 6.3.

~~P. A. 12" 85°, Dist. 12". mag. 4.0, 7.5~~

5 33 −2.7
5 45
50 12

Feb 15 1911

Index Right + Above
N. fol. + brtr. dis.

2911.1
7.51.0 324.4 33,3 ✓
113.2 30,2 ✓
63,5 ✓ 2.73 ✓
143.4

292.5 30,8 ✓ 2,71 ✓
323.3
110.5 33,9 ✓
64.7 ✓ 2.69 ✓
144.4

Index Left + Below

202.5 32.0 ✓
234.5
22.9 29.6 ✓
61,6 ✓ 2.80 ✓
52.5

203.4 29.0 ✓ 2,84 ✓
7.57.10 232.4
8 10. ✓ 23.0 30,6 ✓
7 54 5. 53.6 59.6 ✓ 2.87 ✓
+5 -54.
12 53 11 ✓ mean 2.78 ✓
9083.5369 ✓

Feb. 15. 1911.

Double Star (new list) = Bu. Cat. 2033.
H. obs. Zebbratto sec. Phot. R. (1 prism).
P.A. 223°. Dist. 36" Mag. 5·6 6·5

5 29 −6.1
6 5
+0 36

Feb 15 1911

Index Left + Below

93.4
8.13.15 160.7 67.3 ✓
272.0 70.4 ✓
342.4 137.7 0.82 ✓

90.5 72.2 ✓ 0.81 ✓
162.7 66.6 ✓
274.8 138.8 ✓ 0.80 ✓
341.4

Index Right + Above

6.8 63.2 ✓
70.0 67.2 ✓
184.8 130.4 ✓ 0.97 ✓
252.0

2.4 70.0 ✓ 0.93 ✓
8.19.15
32 30. ✓
8 16 15. ✓
+5 −54. ✓
13 15 21 ✓
9083.5524 ✓

72.4 64.4 ✓
185.7 134.4 0.89 ✓
250.1

mean 0.87 ✓

M
Feb. ~~#~~ 15. 1911.

Double Star (new list) = Br. Cat. 2662,
Phot. R. (1 prism)
W. obs. Tebbutts tel.

P. A 274° Dist. 10" Mag. 7.0 · 7.5
5 14 −10.9
6 22
+1 8

Feb 15 1911

Index Above Fol. + botr. dis.

354.6

8.31.40 79.5 84.9

175.4 82.5

257.9 167.4 0.24

355.5 0.16

85.0 89.5

175.0 86.2

261.2 175.7 0.08

Index Below

263.7 89.3

353.0

82.5 88.5

171.0 177.8 0.04

265.8 85.8 0.08

8.39.30 351.6

71 10. 84.5 87.5 0.13

8 .35 35. 172.0 173.3

+5 -54 Mean 0.12

13 34 41 The measurements of doubles this evening,

9083.5658 seeing somewhat blurry and observations of last double rather difficult.

W's watch used for times

Watch 54 sec's fast.

L. P. P.

Feb. 16. 1911. (Thursday) c

R Z Draconis.

18 22 +58.7
29 11
10 49

Abandoned. Too low.

Nova Lacertae. W. obs. Tibbitts rec.
Phot. R. (1 prism).

22 18 +515
29 16
+6 58

For measts. see fol. pages

Feb 16 1911

Index Below B.

170.7

7.20.0 265.9 comp. Star. Dis.

4.5 95.2

72.0 67.5

162.7 +0.33

184.5 67.7 +0.36

252.2

350.6 92.4

83.60 160.1 +0.38

Index Above A.

81.4

175.9 94.5

275.2 68.4

343.6 162.9 +0.32

92.0 +0.34

7.26.50 162.9 70.9

46 50.

262.0 90.5

7 23 25. 352.5 161.4 +0.35

+5 -20.

12 23 5.

9084.5/161

+0.35

8.57

Magn. 8.92

Feb. 16. 1911.

Double Star (new list) = Bur. Cat. 2883 AB, S.
W. obs. Tebbutts sec. Phot. R (1 prism)

P. A. 84°. Dist 13.″ mags 4.0, 7.5

5 33 -2.7
5 46
+0 13

For measts. see fol. page.

Feb 16 1911

~~23.0~~
Index Left + Below

23.0 ← Prec. + Brit. dis.
7.49.30 54.4 31.4 ✓
202.7 31.5 ✓
234.2 62.9 ✓ 2.75 ✓

23.1 31.4 ✓ 2.78 ✓
~~55.~~ 54.5
202.7 29.9 ✓
61.3 ✓ 2.81 ✓
232.6

Index Right + Above
294.0 28.3 ✓
322.3 33.5 ✓
110.1 61.8 ✓ 2.79 ✓
143.6

2.76 ✓

291.8 31.7 ✓
323.5 31.6 ✓
112.6 63.3 ✓ 2.74 ✓
144.2

mean 2.77 ✓

7.56.40
.106 10. ✓
7 53 5. ✓
+5 -20. ✓
12 52 45 ✓
9084.5367 ✓

Feb. 16. 1911.

Double Star (new list) = βu. Cat. 2 A 33.
W. obs. Tebbutts rec. Phot. R. (1 prism).
P. A. 223°. Dist. 36." mag. 5.6, 6.5

5 29 −6.1
6 1

+0 32

For measts. see fol. page.

Feb. 16. 1911

Index Right + Above

185.9
8.6.10 253.6 n. fol. * both dis.
5.6 67.7 ✓
73.4 67.8 ✓
13 5.5 ✓ 0.87 ✓

182.9 70.8 ✓ 0.84 ✓
253.7 67.4 ✓
4.8 13 8.2 ✓ 0.81 ✓
72.2

Index Left + Below

93.7 67.4 ✓
161.1
273.4 67.8 ✓
341.2 13 5.2 ✓ 0.87 ✓

94.0 67.3 ✓ 0.88 ✓
8.12.55 161.3
19 5. ✓ 274.8 67.6 ✓
8 9 32. ✓ 342.4 13 4.9 ✓ 0.88 ✓
+5 -20. ✓ mean 0.86 ✓
13 9 12. ✓
9084.5480 ✓

Feb. 16. 1911.

Double Star (new list) = Bur. Cat. 2883 AB + E.
Gr. ob. Tebbutts rec. Phot. R. (1 prism),
P.A. 61° Dist. 42", mags. 4.0, 6.3
r 33 -2.7

For measts. see fol. page.

Feb. 16. 1911

Index Left + Below

8.17.50

203.5 28.8 ✓
232.3
23.0 $\frac{30.0}{58.8}$ ✓ 2.91 ✓
53.0

2.91 ✓

203.1 30.3 ✓
233.4
24.0 $\frac{28.4}{58.7}$ ✓ 2.91 ✓
52.4

Index Right + Above

111.0 33.3 ✓
144.3
292.5 $\frac{31.6}{64.9}$ ✓ 2.68 ✓
324.1

2.70 ✓

111.8 33.2 ✓
145.0
~~293~~ $\frac{30.7}{63.9}$ ✓ 2.72 ✓
292.8
323.5

mean 2.80 ✓

8.23.20
41 10. ✓
8 ·20 35. ✓
+5 -20. ✓
13 20 15. ✓
9084.5557 ✓

Feb. 16. 1911.

Double Star (new list) = Ber. Cat. 2662.

v 14 —10.9

Abandoned.

W's watch used for times
Watch 20 sec's fast.

L. P. P.

Feb. 18. 1911. (Saturday).

Nova Lacertae. Phot. R. (1 prism).
W. obs. Tebbutts rec.

~~18 22 +51.5~~

22 18 +51.5
29 28
+7 10

For meas'ts, see fol. page.

Feb. 18. 1911

Index Below B.

352.1 ← comp. star dis

7.21.45 87.9 95.8 ✓

184.2 69.8 ✓

254.0 165.6 ✓ +0.27 ✓

2.1 +0.28 ✓

749 72.8 ✓

92.5 ✓

172.8 165.3 ✓ +0.28 ✓

26~~4~~5.3

Index above. A.

264.5

355.1 90.6 ✓

94.4 69.8 ✓

164.2 160.4 +0.37 ✓

276.0 66.3 ✓ +0.42 ✓

7.29.35 342.3

5 1 20. ✓ 86.6 88.6 ✓

7 25 40. ✓ 175.2 154.9 ✓ +0.48 ✓

+5 41 12. ✓

12 26 52. ✓

9086.5187 ✓

Mean +0.35 ✓

8.57 ✓

Magn. 8.92 ✓

Feb. 18. 1911.

Double Star (new list) = Bu. Cat. 1731.
Phot. R. (1 prism).
Fr. obs. Tebbutts rec.
P.A. 233°. Dist. 4.5." Mags. 6.9, 7.4.

```
 3   24   +27.3
 5   55
--------
72   31
```

For measts. see fol. page.

Feb. 18 1911

Index Right + Below

184.8 ✓ 65.7 ✓ S., fol. + bistr. dis.

7.55.0 250.5

352.4 88.5 ✓

80.9 154.2 ✓ 0.49 ✓

0.49 ✓

172.9 90.8 ✓

263.7

5.5 63.5 ✓

69.0 154.3 ✓ 0.49 ✓

~~Index Left + Above~~

92.0 67.6 ✓

159.6

260.9 93.1 ✓

354.0 160.7 ✓ 0.37 ✓

0.46 ✓

81.1 90.5 ✓

8.1.15 171.6

116 15. ✓ 279.4 61.4 ✓

7 58 8. ✓ 340.8 151.9 ✓ 0.54 ✓

45 +1 12. ✓

12 59 20. ✓

9086.5412 ✓

mean 0.48 ✓

Feb. 18. 1911.

Double Star (new list) = Bu. Cat. 2294.
Phot. R. (1 prism)
W. obs. Ibbetts rec.
P. A. 170°. Dist. 12", mags. 6.7, 7.2.

4	32	−13.3
6	32	
+2	0	

For measts. see fol. page.

Feb 18 1911

Index Left + Above

87·4 ← N. + bits dis.

8·27·0 167·7 80,3 ✓

268·5 77,1 ✓

345·6 157,4 ✓ 0,43 ✓

88·3

168·7 80,4 ✓ 0.40 ✓

266·6 79,7 ✓

346·3 160,1 ✓ 0,38 ✓

Index Right + Above

357·0 80,6 ✓

77·6

178·3 77,6 ✓

255·9 158,2 ✓ 0,42 ✓

359·0 0.44 ✓

8·35·30

78·6 79,6 ✓

62 30 ✓

179·5 76,8 ✓

8 31 15 ✓

256·3 156,4 0.45 ✓

+5 +1 12 ✓

13 32 27 ✓

9086.5 642 ✓

mean 0,42 ✓

W's watch used for times
Watch 1 min. 12. secs slow.

L. R. R.

Feb. 21. 1911. (Tuesday).

Nova Lacertae,

22 18 +51.5
29 36
+7 18

For measts. see fol. page.

Feb 21 1911

Index Above A.

~~260.0~~ Comp. Slit dis.

260.0

7.21.45 357.7 97.7

93.2 68.1

161.3 165.8 +0.27

276.4 68.6 +0.32

345.0

84.0 92.6

176.6 161.2 +0.36

Index Below B.

173.2 90.6

263.8

7.1 64.7

71.8 155.3 +0.47

185.7 64.7 +0.48

7.28.45 250.4

50 30. 354.2 89.8

7 25 15. 84.0 154.5 +0.49

+5 -28

12 24 47

9089.5173

Mean +0.40

8.57

Magn. 8.97

Feb. 21. 1911.

R W Tauri.

3 v-s +27.2
6 6
+2 s

For measts. see fol. page.

Feb. 21. 1911

Index Right + Above
309.0
7.59.0 29.4 ← comp star dis.
142.6
194.3

318.8 ~~321.0~~
21.5
131.5
208.2
Index Left + Below

Abandoned.

Feb. 21. 1911.

Double Star (new list) = Bu. Cat. 2883. AB + E.
Fr. obs. Tebbutts rec. Phot. R. (prism)

2883 AB. + E.

P. A. 60°, Dist. 42", mags. 4.0, 6.3

5 33 -27
6 46

+1 13

For meas'ts. see fol. page.

Feb. 21, 1911

Index Right + Above

112.7
8.29.10 145.4 32.7
292.1 32.0
324.1 64.7 2.69

110.0 35.3 2.70
145.3 29.0
293.8 64.3 2.70
322.8

Index Left + Below

24.7 28.0
52.7 29.6
203.7 57.6 2.95
233.3

24.4 27.8 2.99
8.34.40 52.2
63 50. 204.7 27.9
8 31 55. 232.6 55.7 3.03
+5 -28.
13 31 27. Mean 2.84
9089.5635

Feb. 21. 1910.

Double Star (new list) = Bu. Cat. 2883, AB + D.
H. obs. Tebbutts rec. Phot. R (1 prism)
P.A. 84° Dist. 13." mag. 4.0, 7.5.

For measts. see fol. page.

Feb. 21. 1911.

Index Left + Below

8.38.20

204.8
232.0 27.2 ✓
22.4 33.4 ✓
55.8 60.6 ✓ 2,84 ✓

2.84

202.5 32.5 ✓
235.0 28.2 ✓
23.9 60.7 ✓ 2,84
52.1

Index Right + Above

114.5 29.0 ✓
143.5 34.4 ✓
290.6 63.4 ✓ 2.73 ✓
325.0

2.72

110.6 35.7 ✓
146.3
~~293.9~~
294.1 28.6 ✓
322.7 64.3^{5} ✓ 2.70

8.44.40
8 3 0. ✓
8 41 30. ✓
+5 -28. ✓
13 41 2. ✓
9089.5701 ✓

Mean 2.78 ✓

W's watch used for times
Watch 28 sec's fast.

L. A. P.

Feb. 23. 1911. (Thursday).

Nova Lacertae.
Phot. R. (1 prism). W. obs. Ibbetts rec.
22 18 +51.5
29 45
+7 27

Index above A. Comp. Star dis,

7-25-20

262.6
354.7 92.1
94.8 68.6
163.4 160.7 +0.37

273.4 68.9 +0.37
342.3
82.9 91.6
174.5 160.5 +0.37

Index below B.
173.2
263.6 90.4
4.9 68.7
73.6 159.1 +0.40

185.2 69.7 +0.35
254.9
351.0 94.3
85.3 164.0 +0.30

7-27-45
13 5
7 26 32.
+5
12 26 32.
9091.5124

mean +0.36
8.57
Mag. 8.93

Feb. 23. 1911.

Double Star (new list) = Ber. Cat. 1731,
H. obs. A. H. Hanson rec.
Phot. R. (1 prism)
P. A. 233, Dist. 44." mag. 6.9, 7.4

3 24 +27.3
6 15
+2 51

Index left + above

94.0 ← N. fol. and both. dis.
7-48-45 164.4 70.4 ✓
263.1 91.1 ✓
354.2 161.5 ✓ 0.35 ✓

81.9 93.1 ✓ 0.34 ✓
175.0 69.3 ✓
272.7 162.4 ✓ 0.33 ✓
342.0

Index right + below

00.0
67.8 67.8 ✓
93.0 ✓
~~169.2~~ 172.0 160.8 ✓ 0.37 ✓
265.0

0.42 ✓

355.7 86.2 ✓
7-57-55 81.9 69.0 ✓ 0.47 ✓
6 40 ✓
7 53 20. ✓ 182.2 155.2 ✓
+5 251.2 0.38 ✓
12 53 20. ✓
9091.5370 ✓

Feb. 23. 1911

Double Star (new list) = Bos. Cat. 2294.
W. obs. A. H. Hanson rec.
Phot. R (1 prism)
P.A. 170°. Dist. 12". mags. 6.7, 7.2

$$\begin{array}{rrr} 4 & 32 & -13.3 \\ 6 & 36 & \\ \hline +2 & 4 & \end{array}$$

For measts. see fol. page.

Feb. 23, 1911
Index left + above

8-11-50

268.3
347.0 } N. + Brte. Dia.
86.0 78.7
170.0 84.0
162.7 0.33

268.2 0.32
347.0 78.8
85.0 85.0
170.0 163.0 0.32

Index right + below
179.0 80.8
259.8
359.0 76.2
75.2 157.0 0.44

0.36

175.4 82.6
258.0
358.0 82.0
80.0 164.6 0.29

8-18-35
10 25.
8 15 12.
+5
13 15 12.
9091.55 22

mean 0.34

Feb. 23, 1911.

Double Star (new list) ± Bos. Cat. 2083 AB + 8",
W. obs. Hanson rec. Phot. R (1 prism)
P.A. 61° Dist. 42", mag. 4.0, 6.3

5 33 −2.7
6 55
+1 22

For measts. see fol. pages.

Feb, 23, 1911.

I

Index right + above

113.4 29.6

8-27-50 143.0

291.4 32.6

324.0 62.2 2.78

2.80

110.5 32.7

143.2

293.8 28.7

322.5 61.4 2.81

Index left + below

22.6

52.4 29.8

202.4 32.6

235.0 62.4 2.77

2.81

22.9 30.6

8-34-50 53.5

2 40. 203.5 29.7 2.85

8 31 20. 233.2 60.3

5

13 31 20.

9091.5634

Mean 2.80

Feb 23, 1911 II

"Same again.

Index left + below

23.1 kS. Spec. Bntr. Div..

8-36-5 52.5 29.4

202.7 30.9

233.6 60.3 2,85

23.1 30.9 2,84

53.0

203.0 29.9

232.9 60.8 2,83

Index right + above

294.0 29.9

323.9

112.6 30.0

142.6 59.9 2,86

292.8 30.0 2,86

8-41-45 322.8

113.0 30.2

143.2 60.2 2,85

77 50.

8 38 55.

+5

13 38 55.

9091.5687

mean 2.85

Watch correction accidentally omitted but the objects observed to-night are of such a character that they will not be affected by the omission.

L. P. P.

Feb. 24. 1911. (Friday.)

7 0 Pretty cloudy.

6 41 −16.6
5 44
−0 57
+11 3

Examined Phot. I. - by turning it on Sirius, running the prisms up the track, and taking out eyepiece - to see if any part of the cone of light of the left hand prism, protruded around the edge, vitiated the cone of light. Sky rather cloudy and will make another examination when the sky is clearer.

7.35 Sky still more cloudy.

L. P. P.

Feb. 25. 1911. (Saturday)

Nova Lacertae. K. ob. K. rec.
Phot. R. (1 prism).

22 18 +51.5
30 24
+8 6

Index below. B.

7 53 0.

171.5 92.8
264.3 72.8
2.9 165.6 +0.27
75.7

+0.28

180.9 73.1
254.0
352.0 91.0
164.1 +0.30
83.0

Index above. A.

854 87.4
172.8
272.0 73.9
161.3 +0.36
345.9

+0.30

90.5 74.5
165.0 92.2
166.7 +0.25
264.0
356.2

+0.29
8.57
Magn. 8.86

F 3 0
11 6 0
7 58 0
+5 +2 2.
13 6 2.
9093.5417

Feb. 25. 1911

Double Star (new list) = Bu. Cat. 2043 AB+E.

5 33 −2.7
6 54
+1 21

For measts. see next page.

Feb. 25. 1911.

Index R + A,

112.0 ← S. prec. + bttr. div.

8 20 50. 143.2 31.2

291.5 31.8 / 63.0 2.75

323.3

110.5 33.3 2.74

143.8 30.1

293.0 63.4 2.73

323.1

21.9 31.5

53.4 27.5

204.0 59.0 2.90

231.5

2.86

22.9 29.2

8 31 45 52.1 32.0

. 52 35. 201.2 61.2 2.81

8 26 18. 233.~~4~~.2

+5 +2 2.

13 28 20.

9093.5613

mean 2.80

W's watch used for times.
Watch 2^m 2^s slow.

L. P. A.

Feb. 27. 1911. (Monday) ~~Saturd~~

Nova Lacertae. Phot. J.
W. A. Tebbetts rec.
22 18 +57.5
30 0

+7 42

For measts, see fol. page.

Feb. 27. 1911

Index Below B. C. S. dir.

173.5 94.5 ✓

7.17.10 268.0

2.7 70.0 ✓

184.5 ✓ ~~+0.30~~ +0.29 ✓

72.7

+0.30 ✓

184.4 70.2 ✓

254.6

351.9 92.7 ✓

84.6 162.9 ✓ +0.32 ✓

Index Above A.

262.1 82.8 92.9 ✓

355.0 173.4

93.0 259.7 73.3 ✓

166.3 3 166.2 ✓ +0.26 ✓

+0.30 ✓

273.1 70.4 ✓

343.5

83.4 92.2 ✓

175.6 162.6 ✓ +0.33 ✓

7.26.40

3 50. ✓

7 21 55. ✓

+5 +2 54. ✓

12 24 49. ✓

9095.5173 ✓

+0.30 ✓

8.57 ✓

887

Feb. 27. 1911.

Double Star (new list) = Bar. Cat. 2662.

P.A. 274.° Dist. 10.50 Mags. 7.0 7.4

5 14 −10.9
6 27

+1 13

For meas'ts. see fol. page.

Feb. 27. 1911

Index Below

263.2 ← Fol. + brite dis.

7.47.40 349.5 86.3 ✓

83.0 87.4 ✓

173.7 ✓ 0.12 ✓

170.4

.20

0.~~18~~ ✓

267.2 80.4 ✓

347.6 85.5 ✓

86.7 165.9 ✓ 0.27

172.2

Index Above

174.0 86.0 ✓

260.0

354.9 82.1 ✓

168.1 ✓ 0.22 ✓

77.0

0.20 ✓

176.4 84.6 ✓

261.0

7.54.45

2 25. ✓

355.8 85.6 ✓

7 51 12. ✓ 170.2 0.19 ✓

+5 +2 54. ✓ 81.4

12 54 6. ✓

.20

0.~~19~~

9095.5376 ✓

Feb. 27, 1911.

6 41 −16.6
6 52
+0 11

Abandoned.

W's watch used for times.
Watch 2 min's 5 4 sec's slow.

L. P. P.

Feb. 28. 1911. (Tuesday)

R Can. maj. Phot. T. Y. obs. Tebbutt's rec.
Compared with regular C.S. given in Vol. 69 part 1.
= −15° 1774 (Ph. mg. 8.96).

−16.1

7_6 1^3
v

−1 8
+10 v2

For measts, see fol pages.

Feb 28 1911

I

Index right + Above A. Var. des.

7.39.0

326.0 37.7 ✓
3.7 25.1 ✓
151.2 62.8 ✓ – 2.76 ✓
176.3

$\bar{x}$ 2.82 ✓

333.0 23.4 ✓
356.4 35.7 ✓
147.2 59.1 ✓ $\bar{x}$ 2.89 ✓
182.9

Index Left + Below B.

236.7 33.7 ✓
270.4
63.5 21.0 ✓
84.5 54.7 ✓ $\bar{x}$ 3.07 ✓

$\bar{x}$ 2.96 ✓

242.6 24.3 ✓
266.9
57.0 36.1 ✓
93.1 60.4 ✓ $\bar{x}$ 2.84 ✓

7.46.45
5 45. ✓
7 42 52. ✓
+5 –43. ✓
12 42 9. ✓
9096.5293 ✓

$\bar{x}$ 2.89 ✓
8.96 ✓
[illegible] 6.07 ✓

Feb 28 1911

II

Under Left + Below B.

2368
32.8 ✓
~~7.58.45~~ 269.6
7.51.45 63.5 21.3 ✓
848 54.1 ✓ Ā3.10 ✓

Ā2.98 ✓

242.7 23.9 ✓
2666 36.1 ✓
57.8 60.0 ✓ Ā2.86 ✓
93.9

Under Right + Above A.

146.7 34.2 ✓
180.9
333.3 23.7 ✓
357.0 57.9 ✓ Ā2.94 ✓

Ā2.94 ✓

152.6 24.8 ✓
7.59.45 177.4
11 30. ✓ 328.1 33.0 ✓
7 55 45. ✓ 1.1 57.8 ✓ Ā2.94 ✓
+5 -43. ✓
12 55 2. ✓
9096.5382 ✓

Ā2.96 ✓
8.96 ✓
magn. 6.00

Feb 28 1911

III

Index Right + ~~Above~~ A.

148.2
8.7.40 180.9 32,7 ✓
332.8 22,6 ✓
355.4 √√,3 ✓ $\bar{X}$ 3,04 ✓

154.5
176.9 22,4 ✓ $\bar{X}$ 3,02 ✓
327.0 3&,3 ✓
1.3 √6.7 ✓

B. Index Left + Below $\bar{X}$ 2,99 ✓
60.5 29,1 ✓
89.6
244.3 20.6 ✓
264.9 49.7 ✓ $\bar{X}$ 3,2& ✓

65.0 1&,6 ✓ $\bar{X}$ 3,16 ✓
83.6
236.5 36.7 ✓
273.2 √√,3 ✓ $\bar{X}$ 3,04 ✓

8.17.40
2√ 20, ✓
& 12 40, ✓
+√ -43, ✓
13 11 √7, ✓
9096, √√00 ✓

$\bar{X}$ 3.09 ✓
&.96 ✓
√.&7 ✓

Feb 28 1911

IV

Index Left + Below B.

8.24.15

57.0 33.0 ✓
90.0
244.4 21.5 ✓
265.9 54.5 ✓ ~~+~~3.08 ✓

64.9 17.9 ✓ −3.17 ✓
82.8
238.4 32.3 ✓
270.7 50.2 ✓ −3.26 ✓

Index Right + Above A.

328.5 30.5 ✓
359.0
152.4 24.9 ✓
177.3 55.4 ✓ −3.04 ✓

333.9 19.1 ✓ −3.18 ✓
353.0
150.0 29.8 ✓
179.8 48.9 ✓ −3.32 ✓

8.35.0
5 9 5 ✓
8 29 32. ✓
+5 −43. ✓
13 28 49 ✓
.9096.5617 ✓

−3.18 ✓
8.96 ✓
Magn. 5.78 ✓

Feb 28 1911.

V

Index Right & Above A.

329.9
8·41.30 357.1 27.2
155.0 20.8
175.8 48.0 −3.36

333.5 20.0 −3.35
353.5
151.0 28.4
179.4 48.4 −3.34

Index Left & Below B.

240.6
268.9 28.3
65.1 16.7
81.8 45.0 −3.51

246.6 −3.42
8·50·30 264.5 17.9
9 2 0. 57.6 30.7
8 46 0. 88.3 48.6 −3.33
+5 −43.
13 45 17. P.A 50.5° for B. −3.38
9096.5 731 8.96
Magn. 5.58

W's watch used for times
Watch 43 sec's fast.

L. A. P.

~~Feb~~ March. 1. 1911. (Wednesday)

Nova Lacertae. H. L. Tebbutts rec.,
Phot. R (1 prism)

22 18 ~~+61.5~~ +51.5
30 18
+8 0

For measts. see next page.

Mar. 1. 1911.

Index ~~Right +~~ Above A.

83.4 ← Comp. Star dir.

7.24.20 176.1 92.7

273.4 66.0

339.4 158.7 +0.41

+0.34

93.8 68.2

162.0

256.1 97.4

353.5 165.6 +0.27

Index Below B.

352.8 92.6

85.4

183.0 72.5

255.5 165.1 +0.28

+0.31

4.6 68.4

73.0

172.1 93.9

266.0 162.3 +0.34

7.31.10

55 30.

7 27 45

45 -22.

12 27 23.

9097.5190

+0.32

8.57

Magn. 8.89

[illegible] Mar. 1. 1911.

Double Star (new list) = Bu. Cat. 2662.

P.A. 274.° Dist. 10′ mags 7.0. 7.4.
5 14 −10.9
6 44
+1 30

For measts. see fol. 3 pages.

Mar. 1. 1911

Index Below

85.1 86.7

7.58.40 171.8

264.7 87.7

352.4 174.4 0.11

86.0 85.0 0.16

171.0

266.5 84.5

351.0 169.5 0.20

Index Above

174.7 357.9 86.5

261.2 78.5

354.6 84.4

79.0 170.9 0.17

177.6 82.9 0.19

8.8.20 260.5

7 0. 354.7 86.0

8 3 30. 80.7 168.9 0.21

1.5 -22.

13 3 8.

9097.5439

Mean 0.18

Mar. 1. 1911

Same again

~~[illegible]~~ Index Above

175.5
8.12.45 262.0 86.5
357.9 80.6
78.5 167.1 0.24

178.0 80.0 0.26
258.0 85.3
355.7 165.3 0.28
~~79~~ 81.0

Index Below

87.4 83.7
171.1
267.0 87.7
354.7 171.4 0.16

84.0 88.3 0.14
8.20.25
172.3
33 10
266.0 85.5
8.16 35 351.5 173.8 0.12
+5 -22
13 16 13

mean 0.20

9097.5529

Mar. 1. 1911

Same again Index Below

86.8

8.24.0 172.0 85.2 ✓

265.7 87.1 ✓

352.8 172.3 ✓ 0.14 ✓

85.6 88.5 ✓ 0.12 ✓

174.0 86.1 ✓

266.0 174.5 ✓ 0.10 ✓

352.1

Index Above

356.0 84.1 ✓

80.1

175.3 87.4 ✓

262.7 171.5 ✓ 0.16 ✓

353.2 86.2 ✓ 0.15 ✓

8.29.30 79.4

5 3 30. ✓

175.0 86.4 ✓

A 26 45. ✓ 261.4 172.6 0.14 ✓

5 -22. ✓

B 26 23. ✓

9097.5600 ✓

Mean 0.14 ✓

Mar. 1. 1911.

Examination of Sirius with phot. t.
In order to see ~~if the fractures~~ where the fractures of the left edge of the left-hand acromatic prism begin to cut off the cone of light.

The right hand pair of pencils come from the left hand acromatic prism. This left-hand pair of pencils begin to be knotched when the acromatic prisms are more than half way up the track (perhaps about two thirds the way up the track). As near as can be judged, by proportioning the run without removing the photometer.

W's watch used for times
Watch 22 sec's fast.

L. P. P.

Mar. 2. 1911. (Thursday).

7^h 7^m Sky pretty cloudy.

R U Monocerotis.

7 50 −7.5
6 27
−1 23
10 37

For meast. see next page.

Mar. 2. 1911

Index Left + Above

339.6
8.7.40 11.5 31.9
347.6 16.2
3.8 48.1 3.36

163.0 26.8 3.12
189.8
338.8 32.7
11.5 59.5 2.88

Index Right + Below

252.0 25.9
277.9
70.0 30.2
100.7 56.1 3.01

248.4 32.6 3.03
8.24.20 281.0
32 0. 75.0 22.6
8 .16 0. 97.6 55.2 3.05
+5
13 16 0
3.08

This is ~~probably~~ perhaps not R U Monocerotis.

√

Mar. 2. 1911.

Double Star - Comstocks list No. 76. A. C.
W. obs. Lebbetts rec. Phot. R. (1 prism).
P. A. 245°. Dist. 66." Mags. 6, 9.

8 4 . −2.7
7 37
−1 2 7
11 3 3

For measts. see fol. pages.

Mar. 2. 1911

Index Right & Above I

30.5 16.6 ✓
8.45.5 47.1 13.1 ✓
212.1 29.7 ✓ 4.42 ✓
225.2

4.36 ✓

~~3.0~~
30.9 14.5 ✓
45.4 16.8 ✓
209.8 31.3 ✓ 4.31 ✓
226.6

Index Left & Below

300.7 14.6 ✓
315.3 17.6 ✓
119.0 32.2 ✓ 4.25 ✓
136.6

4.26 ✓

300.1 16.6 ✓
8.51.5 316.7 ✓
.96 10. ✓ 120.8 15.3 31.9 ✓ 4.27 ✓
8 48 5. ✓ 136.1
+5 -12. ✓ 4.31 ✓
13 47 53 ✓

Mar. 2. 1911

Same again, second again

Index Right + Above

III

9.3.45

210.5 15.3 ✓

226.8

31.4 14.1 ✓

45.5 30.4 ✓ 4.37 ✓

4.36 ✓

211.1 15.6 ✓

226.7 15.2 ✓

31.2 30.8 ✓ 4.38 ✓

46.4

Index Left & Below

121.3 15.5 ✓

136.8

301.3 15.9 ✓

31.4 ✓ 4.30 ✓

317.2

4.28 ✓

120.9 15.7 ✓

136.6 16.2 ✓

300.8 31.9 ✓ 4.27 ✓

317.0

9.10.10

13 55. ✓

9 6 58. ✓

+5 -12. ✓

14 6 46 ✓

4.32 ✓

~~Same Again~~ Mar. 2. 1911

Same again.

Index Left + Below

II

301.1 15.0 ✓

8.54.30 316.1 16.4 ✓

120.8 31.4 ✓ 4.30 ✓

137.2

4.30 ✓

300.3 15.8 ✓

316.1 15.8 ✓

120.4 31.6 ✓ 4.29 ✓

136.2

Index Right + Above

212.4 13.5 ✓

225.9 14.5 ✓

31.1 28.0 ✓ 4.55 ✓

45.6

4.45 ✓

8.59.55 211.0 15.7 ✓

~~9.0.0~~ 226.7

14 25. ✓ 30.9 15.1 ✓ 30.8 ✓ 4.35 ✓

8 57 12. ✓ 46.0

+5 -12. ✓ 4.38 ✓

13 57 0. ✓

W's watch used for times

Watch 12 secs fast.

L. P. P.