KG
11365
602

KG 11365.602

KG 11365.602

HARVARD
UNIVERSITY
LIBRARY
JUL 2 1956

July 9, 1910.
Reap. Jup. III Phot. R. (1 prism removed)
W. obs. T. S. Corcoran Rec.

10 25 0	Jupiter faintly visible in telescope, but no satellites seen.
10 29 0	Same remark as above.
10 31 0	Jupiter dim, no sats. seen.
10 35 0	Jupiter dim, no sats. seen.

Photometer was put on and an attempt was made to take the eclipse, photometrically. Jupiter was, however so low and there was so much fog that photometer was taken off and ordinary eye piece substituted. With this however nothing could be accomplished. L. P. P.

W's watch used 30 seconds slow

July 11. 1910. (Monday).

U Ophiuchi. W. obs. Corcoran rec.
Phot. T. 7 in. cap.

For measts, see fol. pages.

July 11, 1910.

Index Right & above

I

107.8
8 24 45 202.8 95.0
298.7
11.9 73.2
168.2 -0.22

120.0 69.7 -0.24
189.7
286.0 97.2
23.2 166.9 -0.25

Index Left & Below

19.8
107.5 87.7
215.0 60.5
275.5 148.2 -0.61

23.0 -0.50
8 30 50 98.4 75.4
55 35. 203.1
8 27 48. 286-9 83.8
+5 -8. 159.2 -0.40
13 27 40.
88 64.5609

mean -0.37
6.71
mean 6.34

July 11, 1910.

Index Left & Below

II

8 36 25

21.2
106.9 85.7
214.0
274.8 60.8
146.5 −0.64

34.0
95.5 61.5 −0.62
201.0 87.5
288.5 149.0 −0.59

Index Right & Above

299.0
10.0 71.0
107.0 91.0
198.0 162.0 −0.34

288.6 −0.38
17.2 88.6
117.1
186.1 69.0
157.6 −0.43

8 43 0
~~8~~ 79 25.
~~5 −8.~~
~~17~~

8 39 42.
5 −8.
13 39 34.
8864.5692

Mean −0.50
6.71
Mag. 6.21

July 11, 1910

III Index Right & Above

8 51 21

297.4
9.0 71.6 ✓
107.0 ✓
196.1 89.1 ✓ / 160.7 ✓ −0.37 ✓

289.0 85.1 ✓
14.1 −0.42 ✓
116.4 70.2 ✓
186.6 155.3 ✓ −0.47 ✓

Index Left & Below

201.4
281.1 79.7 ✓
33.7 57.5 ✓
91.2 137.2 ✓ −0.83 ✓

214.9 −0.74 ✓
274.0 59.1 ✓
18.5 86.5 ✓
105.0 145.6 ✓ −0.66 ✓

8 58 20
109 41. ✓
8 54 50. ✓
+5 −8. ✓
13 54 42. ✓
88 64.5797 ✓

Mean −0.58 ✓
6.71 ✓
Mean, 6.13 ✓

July 11, 1910

Index Left + Below IV

9 4 25

201.6	81.4		
283.0			
33.5	59.3		
92.8	140.7	−0.76	
214.0			−0.78
272.0	58.0		
18.6	80.5		
99.1	138.5	−0.80	

Index Right + Above

110.1	80.9		
191.0			
299.0			
12.9	73.9		
	154.8	−0.48	
121.5			−0.52
179.0	57.5		
283.0	93.5		
16.5	151.0	−0.56	

9 10 40
15 5.
9 7 35.
+5 −8.
14 7 27.
8864.5885

mean −0.65
6.71
mag. 6.06

V

July 11, 1910

Index Right & Above

9 23 45

110.9 82.2
193.1
299.0 63.1
2.1 145.3 −0.67

121.5 63.4 −0.65
184.9
286.9 83.6
10.5 147.0 −0.63

Index Left & Below

18.5 84.0
102.5
211.5 59.2
270.7 143.2 −0.71

33.0 57.1 −0.78
90.1
199.9 78.8
278.7 135.9 −0.86

9 29 15
53 0
9 26 30
+5 −8.
14 26 22.
8864.6017

mean −0.72
6.71
mag. 5.99

July 11, 1910

Index Left + Below VI

20.1
9 37 30 97.9 77.8
211.5 54.8
266.3 132.6 -0.92

30.8 -0.90
88.9 58.1
200.5 76.6
277.1 134.7 -0.88

Index Right & Above

286.3
9.4 83.1
119.0 59.9
178.9 143.0 -0.71

299.6 58.4 -0.69
9 44 15 358.0
81 45 105.8 87.0
9 40 52. 192.8 145.4 -0.67
+5 -8.
14 40 44. mean -0.80
8864.6116 6.71
mag. 5.91

VII

July 11, 1910

Index Right + above

9 54 0

277.0
3.4 86.4

120.0
178.3 58.3 / 144.7 −0.68

297.1
358.0 60.9 −0.78
111.2
188.8 77.6 / 138.5 −0.80

Index Left + Below

201.0
275.5 74.5
32.9
89.0 56.1 / 130.6 −0.97

212.4 −0.96
267.1 54.7
21.0
97.0 76.0 / 130.7 −0.96

10 0 48

114 48.
9 57 24.
5 −8.
14 57 16.

8864.6231

mean −0.85
6.71
temp. 5.86

July 11, 1910

Index Left + Below VIII

10 11 0

198.0
274.9 76.9 ✓
30.0
88.0 58.0 ✓
134.9 ✓ −0.88 ✓

208.8
263.4 54.6 ✓ −0.88 ✓
20.8
100.5 79.7 ✓
134.3 ✓ −0.89 ✓

Index Right + Above

115.9
190.9 75.0 ✓
298.0
355.8 57.8 ✓
132.8 ✓ −0.92 ✓

115.7
179.0 63.3 ✓ −0.94 ✓
296.4 67.1 ✓
4.0
130.4 ✓ −0.97 ✓

mean −0.91 ✓
6.71 ✓
Image 5.80 ✓

10 18 2
29 2 ✓
10 14 31. ✓
+5 −8. ✓
15 14 23.
8864.6350 ✓

IX

July 11, 1910

Index Right + Above

10 31 45 107.5
185.2 77.7
297.3
355.5 58.2 / 135.9 −0.86

115.6
177.8 62.2 −0.90
295.0 69.0
4.0 131.2 −0.95

Index Left + Below

16.9
95.8 78.9
211.0
260.2 49.2 / 128.1 −1.02

30.2
10 37 38 84.8 54.6 −0.99
69 23.
10 34 42. 198.3
+5 −8. 274.8 76.5 / 131.1 −0.96
15 34 34 P. A. 215.2 Vernier B. mean −0.94
6.71
mag. 5.77

8864.6490 W's watch used for time 8 secs. fast

L. P. P.

July 12. 1910. (Tuesday).

W Delphini:

20 31 +17.8
15 47
−4 44
+7 16

After long trying it is impossible to make any observations of W Delphini on account of clouds and moonlight.

July 13, 1910 (Wednesday).

S W Ophiuchi: W. obs. T. S. Corcoran rec.

16 11 − 4.3
15 41
−0 30
+11 30

For measts, see fol. pages.

July 13. 1910.

Index Left

I

188.2
8 36 45 284.0 95.8 ✓
18.0 72.8 ✓
90.8 168.6 ✓ −0.22 ✓

201.6
273.4 71.8 ✓ −0.24 ✓
8.2 94.3 ✓
102.5 166.1 ✓ −0.26 ✓

Index Right

100.7
193.8 93.1 ✓
290.6 74.8 ✓
5.4 167.9 ✓ −0.23 ✓

110.3
8 43 40 181.9 71.6 ✓ −0.29 ✓
80 25. 280.8 90.2 ✓
8 40 12. 11.0 161.8 ✓ −0.35 ✓
45 72,

13 40 14.

mean −0.26 ✓

8866.56957

July 13, 1910

II

Index Right

8 47 37

104.0
193.0 89.0
287.0 70.3
357.3 159.3 −0.39

189.3 −0.34
178.7 69.4
276.8 95.1
11.9 164.5 −0.29

Index Left

182.6
280.9 98.3
19.8 71.9
91.7 170.2 −0.19

199.3 −0.20
269.5 70.2
4.0 98.7
102.7 168.9 −0.21

mean −0.27

9 8 15

11 5 52.
8 57 56.
+5 +2.

13 57 58.
8866.5819.

July 13, 1910
Index Left   III

9 11 10

188.3
276.8   88.5 ✓
17.3   79.2 ✓
96.5   167.7 ✓   −0.23 ✓

198.1   70.7 ✓   −0.24 ✓
268.8   96.6 ✓
4.4   167.3 ✓   −0.24 ✓
101.0

Index Right
100.0   96.3 ✓
196.3   67.4 ✓
290.0   163.7 ✓   −0.31 ✓
357.4

110.0   66.5 ✓   −0.38 ✓
176.5   90.6 ✓
278.0   157.1 ✓   −0.44 ✓
8.6

9 17 30
28 40.
9 14 20.
+5   +2,
14 14 22.
8866.5933

mean −0.31 ✓

July 13, 1910
Index Right
95.0
9 20 5 188.8 93.8 ✓
289.1 67.3 ✓
356.4 161.1 ✓ −0.36 ✓

108.0 68.5 ✓ −0.36 ✓
176.5
275.8 92.7 ✓
8.5 161.2 ✓ −0.36 ✓
Index Left
5.0
100.1 95.1 ✓
203.0 67.8 ✓
270.8 162.9 ✓ −0.32 ✓

14.0 −0.26 ✓
9 26 30 88.7 74.7 ✓
46 35.
9 23 18. 185.4 94.1 ✓
279.5 168.8 ✓ −0.21 ✓
+5 +2. mean −0.31 ✓
14 23 20. P. A. 172 Vernier B
8866.59957
W's watch used for times 2 secs. slow

L. P. P.

July 14. 1910. (Thursday).

R Z Draconis.

18 22 +58.9
15 52
— 2 3.0
+ 9 30

For meas'ts, see fol. pages.

I

July 14, 1910

Index Left B.

Comp. Star dis

8 33 20

301.5
352.2 50.7
127.5
166.5 39.0
89.7 +1.92

308.6 38.2 +1.88
346.8
116.0 54.8
170.8 93.0 +1.83

Index Right A.

211.0 54.6
265.6
41.5 34.5
76.0 89.1 +1.94

216.2 35.7 +1.92
251.9
29.7 54.9
84.6 90.6 +1.90

mean +1.90

8 39 10
12 30
8 36 15
+5 +6
13 36 21
8867.5670

July 14, 1910

Index Right A. II

8 41 0

208.8 49.1^r

257.9

36.6 38.9

75.5 88.0^r $+1.97^r$

215.0 38.2^r $+1.84^r$

253.2

26.9 59.4^r

86.3 97.6^r $+1.72^r$

Index Left B.

117.2 58.4^r

175.6

305.4 38.5^r

343.9 96.9^r $+1.73^r$

123.2 38.7^r $+1.76^r$

161.9

297.2 56.3^r

353.5 95.0^r $+1.78^r$

8 46 50

7 50^r

8 43 55^r

+5 $+6^r$

13 44 1^r

8867.5722^r

mean $+1.80^r$

III

July 14, 1910
Index Left B.

177.0 62.3 ✓
8 57 20 239.3
6.3 43.4 ✓
49.7 105.7 ✓ +1.52 ✓

185.2 43.0 ✓ +1.54 ✓
228.2
357.9 60.9 ✓
58.8 103.9 ✓ +1.56 ✓

Index Right A.

91.4 58.4 ✓
149.8
279.5 37.2 ✓
316.7 95.6 ✓ +1.77 ✓

100.2 39.4 ✓ +1.74 ✓
9 2 45 139.6
0 5. ✓ 267.5 58.5 ✓
9 0 2. ✓ 326.0 97.9 ✓ +1.71 ✓
45 +6. ✓
14 0 8. ✓ mean +1.64 ✓
8867.5834 ✓

July 14, 1910

Index Right A. IV

85.9 63.4✓

9 6 0 149.3

276.4 40.9✓

317.3 104.3✓ +1.55✓

100.0 39.3✓ +1.61✓

139.3 60.2✓

266.2 99.5 +1.67✓

326.4

Index Left B.

352.6 67.3✓

59.9

187.0 41.6✓

228.6 108.9✓ +1.44✓.

6.0 45.8✓ +1.46✓

9 13 15 51.8

19 15✓

175.6

9 9 30.✓ 237.5 61.9✓

5 56.✓ 107.7✓ +1.47✓

14 9 44.✓

8867. 5901✓

mean +1.54✓

V

July 14, 1910

Index Left B

9 16 0

354.4 64.0
58.4
185.5 44.2
229.7 108.2 +1.46

5.0 46.0 +1.45
51.0
172.0 62.9
234.9 108.9 +1.44

Index Right A.

264.5 62.1
326.6
97.9 41.3
139.2 103.4 +1.57

275.5 43.5 +1.58
319.0
86.9 65.1
152.0 108.6 +1.45

9 24 10
40 10.
9 20 5.
+5 +6.
14 20 11. P. A. 260.7 Vernier B
8867.5973

mean +1.48

July 14. 1910.

S Lr Ophiuchi, W. obs. W. Corcoran rec.
Phot. T. Full Ap.
16 11 −4.3
17 41
+1 30

For meass. see fol. pages.

July 14, 1910

Index Left & Above B.

I

10 2 30

75.2 → Van dis.
162.6 87.4
261.8 68.2
330.0 155.6 −0.47

80.0 72.5 −0.3~~8~~7
152.5
250.2 93.5
343.7 166.0 −0.2~~8~~7

Index Right & Below A.

338.0 95.5
73.5
170.6 73.4
244.0 168.9 −0.21

350.0 76.5 −0.18
66.5
160.7 96.3
257.0 172.8 −0.14

10 9 30
12 0
10 6 0
+5 +6
15 6 6

Mean −0.28

8867.6293

July 14, 1910

Index Right & Below A. II

338.8

10 11 50 74.0 95.2^{r}

175.0 69.0

244.0 164.2^{r} -0.30^{r}

354.0 -0.25^{r}

65.0 71.0^{r}

157.4 98.1^{r}

255.5 169.1^{r} -0.20^{r}

Index Left & Above B.

261.5

337.5 76.0^{r}

72.7 91.5^{r}

164.2 167.5^{r} -0.24^{r}

254.0 -0.28^{r}

10 18 15 345.0 91.0^{r}

30 5.

10 15 2.^{s} 82.3 72.7^{r}

155.0 163.7^{r} -0.31^{r}

+5 +6.^{s} P. A. 350.5 Vernier B

15 15 8.^{s}

mean -0.26^{r}

W's watch used for time 6 secs. slow

8867.6355+

L. A. P.

July 15. 1910. (Friday).

R V Ophiuchi. W. obs. T. S. Corcoran vsc.

17 19 +7.8
16 6
—————
−1 19
+10 41

Too much twilight, moonlight and cloud.

Abandoned.

July 15. 1910.

Double Star (new list) = Burnham's Cat. 10643, W. obs. T. S. Corcoran rec., Phot. R. (one prism removed)

P.A. 78°. Dist. 11." mags. 5.8, 7.4

20 53 +3.8

16 48

−4 5

+7 55

For measts. see fol. page.

July 15. 1910.

Under Left and Above

287.2 45.4

9 3 17 332.6

103.1 54.3

157.4 99.7 1.66

282.4 51.7 1.62

334.1

101.1 51.0

152.1 102.7 1.59

Under Right and Below

196.1 43.7

239.8

12.1 52.2

64.3 95.9 1.76

193.1 51.7 1.68

9 10 35 244.8

11.0 50.5

61.5 102.2 1.60

1.65

We watch used 18 seconds slow

July 15. 1910.

Sky pretty cloudy and region somewhat low in East. but all possible care exercised and obs. considered pretty good.

July 17. 1910. (Sunday).

Reap. Jup. II. Phot. R (one prism removed)
W. obs. & W. rec.
Compared with nearer of two sats. (before eclipse) on same fol. side = Sat. I.

```
12   29     -1.8
15   38
---------
+3    9
+3   14
```

July 17. 1910.

8	10 ~~8~~	0	85.8 ✓	+0.2 ✓	175.0	
	10	38	83.6 ✓	+0.2 ✓	260.8	
	11	24	79.8 ✓	+0.4 ✓	177.2	
	11	59	79.5 ✓	+0.4 ✓	257.0	
	12	45	80.6 ✓	+0.4 ✓	177.5	
	13	21			258.1	
	14	5	87.8 ✓		178.2	
8 15 16. ✓	14	50	84.9 ✓	✓	261.0	1
	15	45	83.8 ✓	+0.2	176.0	
	16	22			260.9	
	17	2	84.5 ✓		178.0	
8 18 18. ✓	17	48	84.8 ✓		262.5	2
	18	50	84.6 ✓	+0.2 ✓	177.2	
	19	30			262.0	
	20	17	85.3 ✓		177.2	
8 21 59. ✓	21	8	81.7 ✓		262.5	3
	22	47	83.5 ✓	+0.2 ✓	177.8	
	23	45			259.5	
	24	38	81.5 ✓		178.5	
8 25 36. ✓	25	12	86.1 ✓		260.0	4
	25	54	83.8 ✓	+0.2	175.2	
	26	39			261.3	
	27	21	83.1 ✓		176.8	
8 29 4. ✓	28	56	82.9 ✓		259.9	5
	29	45	83.0 ✓	+0.3	177.2	
	30	15			260.1	

July 17. 1910.

July 19. 1910 (Tuesday).

Double Star (new list) = Burnham's Cat. 7268.

15 22 −8.9
16 36
+1 14

For measts. see fol. page.

July 19 1910
Index Left & Above

273.8 74.6
8 34 15 348.4
96.8 67.8
164.6 142.4 0.73

275.2 67.5
342.7 0.73
90.6 74.9
165.5 142.4 0.73

Index Right & Below

181.6 73.9
255.5
0.2 78.0
78.2 151.9 0.54

184.5 73.1 0.56
8. 39 30 257.6
7 3 45. 2.5 76.8
a 36 52. 79.3 149.9 0.58
+5 +53.
13 37 45. PA 135° Dist. 0.9″

mean 0.64

W's watch used for times 53. secs. slow

L. P. P.

July 20, 1910 (Wednesday).

Halley's Comet.

11 2 -4.4
16 38
+5 36

Too low to be taken.

Abandoned.

July 20, 1910.

R X Herculis. L. obs. T. S. Corcoran rec.
Phot. T. 9.5 in cap.

18 16 +12.0
16 3

−2 13
9 47

For meas'ts. see fol. pages.

July 20, 1910.

I

Index Left A.

8 15 15

272.8 ← Var. dis.
324.1 51.3
99.4
137.5 38.1 / 89.4 −1.93

278.3 38.1 −1.88
316.4
89.5 55.3
144.8 93.4 −1.82

Index Right A.

182.4 50.6
233.0
9.4 34.0
43.4 84.6 −2.06

191.4 34.3 −2.02
225.7
1.9 53.3
55.2 87.6 −1.98

mean −1.95

8.25.30

40 45
8 20 22
+5 1 7
13 21 29.
8873.5566

July 20. 1910.
Index Right

8 28 10
183.0
236.0
10.7
46.5
Clouds

Delayed so long by clouds that the above set was abandoned and a new group started on ~~fol~~ following page.

July 20. 1910.

Index Right A.

II

8.44.25

10.3 38.5
48.8
185.0 51.5
236.5 90.0 -1.91

359.7 56.1 -1.90
55.8
190.4 35.1
225.5 91.2 -1.88

Index Left B.

271.8 51.0
322.8
100.0 35.7
135.7 86.7 -2.00

280.9 35.8 -1.98
316.7
90.0 52.6
142.6 88.4 -1.96

Mean -1.94

8 51 35
9 6 0
8 48 0.
+5 1 7.
13 49 7.
0873.5758

July 20. 1910.

Index Left B.

III

8 54 45

270.2 56.5

326.7

101.0

135.6 34.6

91.1 -1.88

280.9 35.4 -1.91

316.3

91.5

145.2 53.7

89.1 -1.94

Index Right A.

182.8 51.6

234.4

10.9

47.0 36.1

87.7 -1.98

191.0 35.0 -1.97

226.0

1.8

54.9 53.1

88.1 -1.96

mean -1.94

9 0 45

11 5 36.

8 57 45.

+5 1 7.

13 58 52.

8873. 5825+

July 20. 1910.

Index Right A. IV

9 9 30

181.0 54.0
235.0
13.0 35.0
48.0 89.0 -1.94

191.0 35.3 -1.88
226.8
358.6 58.7
57.3 94.0 -1.81

Index Left B.

92.9 52.1
145.0
281.2 34.6
315.8 86.7 -2.00

100.0 36.9 -1.89
136.9
267.5 58.2
325.7 95.1 -1.78

9 15 25
24 55.
9 12 28.
+5 1 7.
14 13 35.
8873.5928

mean -1.88

July 20. 1910.

Index Left B. V

89.9 55.3 ✓
9 20 20 145.2
281.0 34.0 ✓
315.0 89.3 ✓ -1.93 ✓

100.~~5~~3 38.7 ✓ -1.86 ✓
189.0
270.0 56.2 ✓
326.2 94.9 ✓ -1.79 ✓

Index Right A.

1.8 53.2 ✓
55.0
190.0 ✓
224.5 34.5
87.7 ✓ -1.98 ✓

10.2 37.6 ✓ ✓
47.8 -1.88
179.3 57.1 ✓
236.4 94.7 ✓ -1.79 ✓

9 27 35
47 55.
9 23 58.
+5 1 7.
14 25 5.
8873.6008

mean -1.87 ✓

P.A 332.0 Ver. B.

July 20. 1910.

As the ephemeris in the V. J. was wrong in its time of minimum for tonight, by some 6 hours, the preceding observations of RX Herculis are observations of full brightness.

July 20. 1910.

R Coronae. W. obs. T. S. Corcoran rec.
Phot. T.

15 43 +26.5
18 3
+2 20

For meas'ts, see pp. 47 and 48.

July 20, 1910.

Index Above. A.

249.7 ← Var. dis.
10.1.35 344.8 95.1 ✓
82.4 76.2 ✓
158.6 171.3 ✓ −0.16 ✓

258.9 78.1 ✓ −0.14 ✓
337.0
71.4 96.0 ✓
167.4 174.1 ✓ −0.11 ✓

Index Below B.

155.8 107.9 ✓
263.7
349.4 78.2 ✓
67.6 186.1 ✓
173.9 ✓ +0.11 ✓

165.6 85.2 ✓ +0.08 ✓
250.8
338.9 98.1 ✓
77.0 183.3 ✓ +0.06 ✓
176.7 ✓

mean −0.03 ✓
7.32 ✓
Inequ. = 7.29 ✓

10.8.0
9 35, ✓
10 4 48. ✓
+5 1 7
15 5 55,
8893.6291

July 20. 1910.

Index Below. B.

157.8 101.1
10 12 30 258.9
346.1 83.7
69.8 184.8 +0.09
175.2

168.0 81.5 +0.07
249.5 101.1
337.1 182.6
78.2 177.4 +0.05

Index above A.

69.9
164.1 94.2
260.1 74.8
334.9 169.0 −0.21

83.4 74.6 −0.23
10 17 0 158.0
29 30. 251.1 92.3
10 14 45. 343.4 166.9 −0.25
+5 1 7. mean −0.08
15 15 52. P. A. 334.7 Vir. B. 7.32
8873.6360 magn. = 7.24

W's watch used for times ~~[illegible] seconds~~ 1 minute, 7 seconds slow

L. P. P.

July 21. 1910. (Thursday).

U Ophiuchi. W. obs. M. Corcoran rec.
Phot. T. 7" cap.

17 9 ~~+0.8~~ −0.2
16 7
−1 2
+10 58

For meas'ts. see fol. pages.

July 21. 1910.

Index Right and Above I

346.9 Var. dev.

8 15 20 75.0 88.1

175.2 63.8

289.0 151.9 − 0.54

356.0 65.6 −0.52

61.6

163.9 88.1

252.0 153.7 −0.50

Index Left and Below

257.0 81.3

338.3

92.6 54.8

147.4 136.1 −0.85

269.8 57.4 −0.86

8 21 20 327.2

36 40. 78.5 78.6

8 18 20. 157.1 136.0 −0.86

+5 +10.

13 18 30. mean −0.69

8874.5546 6.71

Image, 6.02

July 21, 1910.

Index Left and Below. II

258.0 80.4
8 24 40 338.4
90.5 62.6
152.1 143.0 −0.71

269.1 59.9 −0.74
329.0
78.3
159.1 80.8
140.7 −0.76

Index ~~Left~~ Right and Above.

163.3
251.6 88.3
354.5 68.5
63.0 156.8 −0.44

175.0 68.9 −0.43
8 30 40 243.9
55 20.
344.2 88.9
8 27 40. 73.1 157.8 −0.42
+5 +10.
13 27 50.
88 74.5610

Mean −0.58
6.71
Mag. 6.13

July 21. 1910.

Index Right and Above III

161.8
8 32 55 254.2 92.4
352.6 72.4
65.0 164.8 -0.29

175.3 66.2 -0.30
241.5
339.1 97.1 -0.32
76.2 163.3

Index Left and Below

76.9
161.2 84.3
267.2 61.8
329.0 146.1 -0.65

86.7 64.3 -0.62
8 38 32 151.0
11 27 256.5 85.2
8 35 44 341.7 149.5 -0.58
+5 +10
13 35 54 W's watch used for times 10 secs.
8874.5666 slow.

Mean -0.46
6.71
Mag. 6.25

L. P. P.

July 22. 1910. (Friday).

Double Star (new list) = Burnham's Cat, 5990. H. obs. J. S. Corcoran rec.

11 54 +71.3
16 36
+4 42

~~P. A 150° Dis. 33"~~

P. A. 330° Dist. 33."

Upon more critical examination of components of double, the south. fol. component seems certainly a little the bgtr. - so the P. A. above was changed by 180°.

For measts. see fol. page.

July 22, 1910.

Index Right and Above

8 31 25

185.1 ← 69.8 South fol. + bott. dir.
254.9
351.3 97.7
89.0 167.5 0.24

172.9 96.1 0.26
269.0
5.1 69.7
74.8 165.8 0.27

Index Left and Below

98.3 65.2
163.5
259.3 100.5
359.8 165.7 0.27

79.5 99.7 0.24
179.2
277.8 69.3
347.1 169.0 0.21

8 40 15
7 1 40.
8 35 50.
+5 +10.
13 36 0.

mean 0.25

Above settings — especially the last ones — made through some cloud.
Wm's watch used for times 10 seconds slow.

L. P. P.

July 26. 1910. (Tuesday).

U Ophiuchi: H. obs. Michael Corcoran rec.
Phot. I.

17 9 −0.2
16 42

−0 27
+11 33

For measts. see fol. pages.

I

July 26, 1910

Index Right + above A.

I

8 29 0

345.4 → Var. dia.
67.8 82.4
178.5
241.4 $\frac{62.9}{145.3}$ −0.67

354.7 67.3
62.0 −0.61
166.7
250.6 $\frac{83.9}{151.2}$ −0.55

Index Left + Below B.

260.5 74.5
335.0
90.7
147.3 $\frac{56.6}{131.1}$ −0.96

268.0 61.2 −0.96
329.2
78.7
147.7 $\frac{69.0}{130.2}$ −0.97

8 35 30

	64	30.
8	32	15.
+5	0	46.
13	33	1.

8879.5646

Mean −0.78
6.71
Magn. 5.93

July 26, 1910

Index Left & Below B.

II

8 45 5

256.5 77.7″
334.2
90.0 58.0″
148.0 135.7″ −0.86″

271.5 54.7″
326.2 −0.89″
79.4 78.1″
157.5 132.8″ −0.92″

Index Right & above A.

162.7 86.3″
249.0
354.7 65.8″
60.5 152.1″ −0.53″

174.2 69.0
243.2 −0.47″
343.6 89.4
73.0 158.4 −0.41″

8 50 25
9 5 30
8 47 45
+5 0 46
13 48 31
8879.5754

Mean −0.68″
6.71″
[illegible] 6.03″

~~IX~~

July 26, 1910

Index Right & Above A.

III

8 59 10

160.8
250.3 89.5 ✓
352.4 70.2 ✓
62.6 $\frac{70.2}{159.7}$ ✓ −0.39 ✓

172.9 67.9 ✓ −0.40 ✓
240.8
342.6 90.4 ✓
73.0 $\frac{90.4}{158.3}$ ✓ −0.41 ✓

Index Left & Below B.

76.2
157.0 80.8 ✓
268.5 60.5 ✓
329.0 $\frac{60.5}{141.3}$ ✓ −0.75 ✓

87.0 62.5 ✓ −0.70 ✓
149.5
258.0 83.0 ✓
341.0 $\frac{83.0}{145.5}$ ✓ −0.66 ✓

mean −0.55 ✓
6.71 ✓
Mag. 6.16 ✓

9	5	30
	4	40
9	2	20
+5	0	46 ✓
14	3	6

8879.5855

July 26, 1910

Index Left + Below B. IV

76.2

9 15 20 159.0 82.8

267.6 63.4

331.0 146.2 −0.65

85.0 −0.60

150.2 65.2

255.3 85.7 −0.56

341.0 150.9

Index Right + Above A.

340.5

71.0 90.5

173.2 71.6

244.8 162.1 −0.34

352.0 −0.29

9 21 45 64.0 72.0

37 5.

9 18 32. 161.3

+5 +46. 253.5 95.2 −0.24

14 19 18. 167.2

8879.5967

mean −0.44

6.71

Mag. 6.27

V

July 26, 1910
Index Right + Above A.
V

9 31 10

342.0
72.8 90.8
173.0
245.2 $\frac{72.2}{163.0}$ −0.32

352.5
63.6 71.1 −0.29
160.7
256.0 $\frac{95.3}{166.4}$ −0.26

Index Left & Below B.
257.4
342.6 85.2
81.0
151.6 $\frac{70.6}{155.8}$ −0.46
8
267.2 −0.58 25
332.0 64.8
74.7
160.2 $\frac{85.5}{150.3}$ −0.57

9 38 10
9 20.
9 34 40.
55 +46.
14 35 26.
8879.6079

Mean −0.40
6.71
[illegible], 6.31

July 26, 1910
Index Left + Below B. VI

255.6
9 45 30 341.5 85.9
81.9 69.7
151.6 155.6 −0.47

265.0 70.0 −0.42
335.0
74.9 90.3
165.2 160.3 −0.38

Index Right & Above A.
165.2
252.0 86.8
342.5
56.0 73.5
160.3 −0.38

176.0 66.5 −0.34
9 58 45 242.5
10 4 15 336.0
9 52 8 74.2 98.2
164.7 −0.29
+5 +46 P. a. 214.5 Vernier B
14 52 54 Mean −0.38
8879.6200 W's watch used for times 46 secs. slow

6.71
Suppl. 6.33

L. P. P.

July 27. 1910. (Wednesday).

NW Ophiuchi.

16 11 − 4.3
16 16
+0 5

July 27, 1910.

Index Left and Above B.

I.

170.1 77.9
8 44 30 248.0
353.5 66.3
59.8 144.2 +0.64

177.3 61.5 +0.62
238.8
344.6 89.2
73.8 150.7 +0.56

Index Right and Below A.

250.1 89.7
339.8
89.9 63.3
153.2 153.0 +0.52

263.6 67.4 +0.51
8 49 50 331.0
94 20. 73.8 86.2
8 47 10. 160.0 153.6 +0.50
+5 +52.
13 48 2.
8880.5750

Mean +0.56

July 27. 1910.

Index Right and Below A. II

8 52 5

256.0 80.3✓
336.3

83.0 66.3✓
149.3 146.6✓ +0.64✓

263.6 63.2✓ +0.64✓
326.8

73.8 84.0✓
157.8 147.2✓ +0.63✓

Index Left and Above B.

177.2 62.8✓
240.0

342.8 96.3✓ +0.40✓
79.1 ~~160.1~~ ~~0.38~~
159.1✓

162.8 90.8✓ +0.43✓
253.6

355.0 64.7✓
59.7 155.5✓ +0.47✓

8 56 48
8 53.✓
8 54 26.✓
+5 +52.✓
13 55 18.✓
8880.5801✓

P. A 349.8 Ver. B.

mean +0.53✓

July 27. 1910.

Index Left and Above B. III

349.9
9 43 15 65.1 75.2
160.0 91.1
251.1 166.3 +0.26

343.2 89.3 +0.32
72.5
171.5 71.5
243.0 160.8 +0.37

Index Right and Below A.

257.8 81.2
339.0
89.3 81.1
170.4 162.3 +0.34

249.5 96.9 +0.26
9.48 10 346.4
11 25. 81.9 74.1
9 45 42. 156.0 171.0 +0.17
+5 +52.
14 46 34. mean +0.29
8880.6157

July 27. 1910.

Index Right and Below A. IV

9. 51. 0

266.9 63.1
330.0
72.1 96.8
168.9 159.9 +0.38

248.8 100.2 +0.22
349.0
75.8 76.2
152.0 176.4 +0.07

Index Left and Above B.

167.8 73.2
241.0
336.0 100.8
76.8 174.0 +0.11

159.0 92.5 +0.24
251.5
351.8 71.4
63.2 163.9 +0.30

mean +0,22

9 56 20
7 20.
9 53 40.
+5 +52.
14 54 32.
8880.6212

July 27. 1910.

Index Left and Above B. V

172,1 69.7″
9 58 10 241,8
341.0 94.0″
75.0 163.7″ +0,31″

~~169.9~~ 169.9 +0,22″
245.0 75.1″
335.2
73.0 97.8″
172.9″ +0.13″

Index Right and Below A.

67.8
165.9 98.1″
263.7
340.0 76.3″
174.4″ +0,11″

83.9 64.2″ +0.15
10.5.40 168.1
3 50.″ 241.3
10 1 55.″ 346.9 105.6″
+5 +52.″ 169.8″ +0.19″
15 2 47.″ mean +0.18″
8880.6270″ V's watch used for times.
Watch 52 secs. slow.

L. P. P.

July 28, 1910. (Thursday).

U Sagittae. H. obs. w. Corcoran, vec.
Phot. I.

19 20 +19,6
16 55
-2 25
+9 35

For measts. see fol. pages.

July 28, 1910

Index Right A.

356.0 66.2 Comp. Star dis.

8 39 0   62.2   I

164.0 86.0

250.0 152.2 +0.53

346.4 81.1 +0.68

67.5

178.9 56.4

235.3 137.5 +0.82

Index Left B.

271.3 53.7

325.0

77.5 76.4

153.9 130.1 +0.98

259.0 75.0 +1.01

8 44 40   334.0

3 40.   90.7

8 1 50.   142.7 52.0 +1.04

+5 +56.   127.0

13 2 46.

8881.5437

mean +0.84

July 28. 1910.
Index Left B.

II

8 46 40

269.0 54.3
323.3
79.5
158.0 78.5 / 132.8 +0.92

255.7 79.2 +0.94
334.9
92.3
143.5 51.2 / 130.4 +0.97

Index Right A.

179.9 53.6
233.5
340.7 92.8
73.5 146.4 +0.65

160.5 90.3 +0.63
250.8
358.6
56.3 57.7 / 148.0 +0.61

mean +0.78

8 52 15
9 8 55.
8 49 28.
+5 +56.
13 50 24
8881.5767

July 28, 1910,

Index Left B.

9 2 0

79.0 → Comp Star dis III
160.4 81.4
271.5
323.5 52.0
133.~~9~~4 +0.90

91.0
146.9 55.9 +0.89
257.0 79.0
336.0 134.9 +0.88

Index Right A.

359.1 58.4
57.5
167.2 91.8
259.0 150.2 +0.57

337.7
71.1 93.4 +0.57
179.0 57.0
236.0 150.4 +0.57

mean +0.73

9 7 5
9 5
9 4 32.
+5 +56.
14 5 28.
8881.5871

July 28, 1910.

In previous observations of U Sagittae, troubled by clouds and bad atmospheric conditions.

July 28. 1910.
R Coronae.

15 43 +26.5
18 10
+2 27

For results see two fol. pages.

July 28, 1910

Index Above A.

I

9 44 30

338.5 → Comp Stan dev

75.0 96.5

153.0

262.0 109.0

205.5 −0.49

154.5

325.5

85.2 119.7 −0.48

166.0 85.6

251.6 205.3

Index Below 154.7 B −0.48

257.7

81.3

339.0

61.8 106.1

167.9 187.4 −0.14

172.6

243.3 106.5

349.8 −0.15

75.6 82.2

157.8 188.7

171.3 −0.16

9 49 35

14 5.

9 47 2.

+5 +56.

14 47 58.

8881.6167

mean −0.32

7.32

Magn., 7.00

July 28 1910

Index Below B. II

9 51 0

255.2
336.0 80.8 ✓
60.0
169.9 109.9 ✓
190.7 ✓
169.3 ✓ −0.20 ✓

243.5
345.6 102.1 ✓ −0.12 ✓
78.0 80.0 ✓
182.1 ✓
158.0 177.9 ✓ −0.04 ✓

Index above A.

167.0 86.2 ✓
253.2
333.5 111.9 ✓
85.4 298.1 ✓ −0.34 ✓
161.9 ✓

152.2 111.1 ✓ −0.40 ✓
263.3
342.8 92.7 ✓
75.5 208.8
156.2 −0.45 ✓

95610
7 10. ✓
9 53 35. ✓
+5 +56. ✓
14 54 31. ✓
8881.6212 ✓

P. A. 333.4 Vernier B

mean −0.26 ✓
7.32 ✓
[illegible]. 7.06 ✓

W's watch used for times 56 secs. slow

L. P. P.

July 29. 1910. (Friday).

S W. Ophiuchi: Fr. obs. J. S. Corcoran rec., Phot. J.

16 11 −4.3

~~16 v 4~~

~~+0 4 3~~

17 24

+1 1 3

For measts. see fol. pages.

July 29, 1910.

Index Left and Above B I

~~345.5~~
~~74.4~~

~~8 49 10~~

81.9 ↙ 76.7 var. dis.
8.50.45 158.6
249.5 97.5 ✓
347.0 174.2 −0.11 ✓

67.0 101.0 −0.13 ✓
168.0
261.5 70.9
332.4 171.9 −0.15 ✓

Index Right and Below A.

346.1 62.8 ✓
48.9
160.4 98.0 ✓
258.4 160.8 ✓ −0.37 ✓

339.2 97.6 −0.37 ✓
76.8
173.8 63.2
247.0 160.8 −0.37 ✓

9 0 25
111 10. ✓
8 55 35. ✓
+5 1 1. ✓
13 56 36. ✓
8 8 42. 5 8 10 ✓

Mean −0.25 ✓

July 29. 1910.

Index Right and Below A II

346.9 61.1✓

9 4 0 48.0

158.5 100.5✓

259.0 161.6✓ −0.35

338.1 97.6✓

75.7 −0.31✓

175.0 68.0✓

243.0 165.6✓ −0.27✓

Index Left and Above B.

248.0

347.0 99.0✓

84.5 70.5✓

155.0 169.5✓ −0.20✓

263.2 72.0✓ −0.22✓

335.2

71.1 94.7✓

165.8 166.7✓ −0.25✓

9 10 25

14 25.✓

9 7 12.✓

+5 1 1.✓

14 8 13.5

8882.5890✓

mean −0.26✓

July 29. 1910.

Index left and Above β III

9 16 0

267.2
348.0 80.8 ✓
64.5
153.5 89.0 ✓
169.8 ✓ −0.19 ✓

268.7 69.3 ✓ −0.20 ✓
338.0
70.1 98.9 ✓
169.0 168.2 ✓ −0.22 ✓

Index Right and Below α.

162.5
256.5 94.0 ✓
351.7
67.5 75.8 ✓
169.8 ✓ −0.19 ✓

174.0
244.6 70.6 ✓ −0.27 ✓
347.1 91.1 ✓
78.2 161.7 ✓ −0.35.

mean −0.24 ✓

9 21 50
37 50. ✓
9 18 55. ✓
+5 1 1.
14 19 56. ✓
8882. 5971 ✓

July 29. 1910.

Index Right and Below + IV

161.6 93.4 ✓
9 30 45 255.0
351.5 72.1 ✓
63.6 165.5 ✓ −0.27 ✓

171.5 74.1 ✓ −0.26 ✓
245.6
341.5 92.7 ✓
74.2 166.8 ✓ −0.25 ✓

Index Left and Above B.

72.9
164.5 91.6 ✓
258.0
336.8 78.8 ✓
170.4 ✓ −0.18 ✓

87.4 69.4 ✓ −0.22 ✓
9 36 55 156.8
67 40. ✓ 248.5
9 33 50. ✓ 345.7 97.2 ✓
166.6 ✓ −0.25 ✓
+5 1 1. ✓
14 34 51. ✓ mean −0.24 ✓
8882.6075+ ✓

July 29. 1910.

Index left and above B   V

9 51 0

71.9
163.8 91.9✓
258.9 72.6✓
331.5 164.5✓ −0.29✓

84.0
155.5 71.5✓ −0.24✓
245.5 98.7✓
344.2 170.2✓ −0.19✓

Index Right and Below A.
342.0
76.2 94.2✓
176.6 67.4✓
244.0 161.6✓ −0.35✓
~~3~~

~~35.30~~ 174.5
~~62.1~~ 246.5 72.0✓ −0.28✓
338.4
75.5 97.1✓
169.1✓ −0.20✓

~~9.59.10~~ 10 2 22
113 22.✓
9 56 41.✓
+5 1 1.
14 57 42. P.A. 171.0 Ver. B.
~~222~~2.6234✓

mean −0.26✓

July 29. 1910.

R Coronae.

15 43 +26.5
18 58
+3 15

For measts. see fol. page.

July 29, 1910.

Index Above A. I

251.0 ← Var. dec.

10 20 0

342.2 91.2

90.4

152.8 62.4 / 153.6 −0.50

267.8 61.2 −0.44

329.0

468.3

167.5 99.2 / 160.4 −0.37

Index Below B.

337.4

77.0 99.6

172.0

243.0 71.0 / 170.6 −0.12

354.8 68.1 −0.21

62.9

10 27 18

47 14.

159.0

258.5 99.5 / 167.6 −0.24

10 23 39.

+5 1 1

15 24 40.

8882.6422

mean −0.33

7.32

Magn. 6.99

7.43

7.10

July 29. 1910.

Index Below B. II

337.5
10 29 20. (Assumed) 75.9 98.4 ✓
172.3 65.9 ✓
238.2 164.3 ✓ −0.30 ✓

353.0
60.2 67.2 ✓ −0.34 ✓
161.9 92.6 ✓
254.5 159.8 ✓ −0.38 ✓

Index above A.

249.0
342.2 93.2 ✓
89.4 59.7 ✓
149.1 152.9 ✓ −0.52 ✓

264.2
10. 34. 10 382.8 68.6 ✓ −0.47 ✓
63 30. ✓ 75.2 89.3 ✓
10 31. 45. ✓ 164.5 157.9 ✓ −0.42
+5 1 1. ✓ Mean −0.40 ✓
15 32 46. ✓ P.A. 333.2 Ver. B. 7.32 ✓
8882.6478 ✓ Mean, 6.92 ✓

We watch used for times, 1 minute, 1 second slow.

L. A. P.

July ~~29~~ 30, 1910. (Saturday)

U Scuti, Phot. J. W. S., Michael Corcoran rec.

18 v1 -13,0
17 0
-1 v-1
10 9

For meas'ts see fol. pages.

July 30. 1910.

I

Index above

8 46 35

344.0 → Comp Stern dir

73.6 89.6 ✓

174.7

242.2 67.5 ✓

157.1 ✓ +0.44 ✓

358.2

60.3 62.1 ✓ +0.52 ✓

164.5 86.4 ✓

250.9 148.5 ✓ +0.60 ✓

Index Below

253.5 81.4 ✓

334.9

89.5 55.0 ✓

144.5 136.4 ✓ +0.85 ✓

269.0 55.6 ✓ +0.88 ✓

324.6

81.2 77.3 ✓

158.5 132.9 ✓ +0.92 ✓

mean +0.70 ✓

8 55 10

101 45. ✓

8 50 52. ✓

+5 1 ·10. ✓

13 52 2. ✓

8883.5778 ✓

July 30, 1910 II

Index Below

9 0 25

261.0
334.0 73.0
90.0
146.7 56.7 / 129.7 +0.99

270.2 55.3 +0.94
325.5
77.0 78.5
155.5 133.8 +0.90

Index Above

165.5 82.0
247.5
359.7 58.3 +0.77
58.0 140.3 ~~0.97~~

177.7 59.3 +0.76 ~~0.86~~
237.0
347.5 81.4
68.9 140.7 +0.76

mean +0.85 ~~0.90~~

9 8 30
8 55.
9 4 28.
+5 1 10.
14 5 38.
8883.5872

III

July 30, 1910

9 15 30

Index above

168.0 81.4 ✓
249.4
357.2 61.4 ✓
58.6 142.8 ✓ +0.72 ✓

178.5 60.0 ✓ +0.78 ✓
238.5
347.0 77.1 ✓
64.1 137.1 ✓ +0.83 ✓

Index Below

82.0 68.3 ✓
150.3
272.2 51.5 ✓
323.7 119.8 ✓ +1.20 ✓

92.0 52.5 ✓ +1.18 ✓
144.5
263.0
332.5 69.5 ✓
122.0 ✓ +1.15 ✓

Mean +0.98 ✓

9 23 55
39 25. ✓
9 19 42. ✓
+5 1 . 10. ✓
14 20 52. ✓
8883.5978 ✓

July 30, 1910

IV

Index Below

82.2
9 28 5 153.9 71.7 ✓

271.2 49.3 ✓
320.5 121.0 ✓ +1.17 ✓

92.5 49.0 ✓ +1.21 ✓
141.5
262.2 68.3 ✓
330.5 117.3 ✓ +1.25 ✓

Index Above

349.0
63.5 74.5 ✓

182.0 53.5 ✓
235.5 128.0 ✓ +1.02 ✓

359.0 55.6 ✓ +0.96 ✓
54.6
167.6 77.6 ✓
245.2 133.2 ✓ +0.91 ✓

+1.08 ✓

9 35 40
63 45. ✓
9 31 52. ✓
+5 1 10. ✓
14 33 2. ✓
8883.6062 ✓

V

July 30, 1910
Index Above

~~348.5~~ 349.2
~~65.0~~ 59.0 69.8 ✓
175.0
242.7 67.7 ✓
137.5 ✓ +0.82 ✓

346.9
65.5 78.6 ✓
182.3 53.4 ✓
235.7 132.0 ✓ +0.94 ✓

+0.88 ✓

Index Below
273.5
319.5 46.0 ✓
~~87.2~~ 86.7
147.5 60.8 ✓
106.8 ✓ +1.49 ✓

261.7
331.0 69.3 ✓
94.5
141.0 46.5 ✓
115.8 ✓ +1.29 ✓

+1.39 ✓

mean +1.14 ✓

9 ~~39~~ 40 ~~15~~ 20

9 49 30
9 50. ✓
9 44 55. ✓
+5 1 10. ✓
14 46 5. ✓
8883.6154 ✓

July 30, 1910
Index Below

VI

89.0		
149.0	60.0	
276.2		
319.8	43.6	
	103.6	+1.57

95.2	45.4	+1.51
140.6		
267.8	63.0	
330.8	108.4	+1.45

Index Above

355.3	66.2	
61.5		
183.5	51.9	
235.4	118.1	+1.23

2.0	51.7	+1.22
53.7		
173.5	67.9	
241.4	119.6	+1.20

10 2 25

10 9 10
11 35.
10 5 48.
+5 1 10.
15 6 58.
8883.6299

P. A. 102.5 Vernier B

mean +1.36

July 30, 1910

R Coronae.

15 43 +26.5
19 3
+3 20

For measts. see fol. two pages.

July 30, 1910

I

Index Above

69.6 → Var dis.

10 23 30 164.5 94.9 ✓

268.4 671.8 ✓

330.2 156.7 ✓ −0.44 ✓ ~~0.3~~

88.0 64.8 ✓ −0.48 ✓ ~~0.34~~

152.8

249.9 92.1 ✓

342.0 156.9 ✓ −0.44 ✓

Index Below

336.5 98.2 ✓

74.7

172.0 73.6 ✓

245.6 171.8 ✓ −0.16 ✓

351.7 71.5 ✓ −0.18 ✓

10 29 10 63.2

5 2 40. ✓ 157.5 97.5 ✓

10 26 20. ✓ 255.0 169.0 ✓ −0.21 ✓

+5 1 10. ✓

15 27 30. ✓

883.6442 ✓

mean −0.31 ✓ ~~0.26~~

7.32 ✓ ~~7.32~~

magn. 7.01 ✓ ~~7.06~~

II

July 30, 1910
Index Below

10 30 55

339.5
73.7 94.2 ✓
172.5
246.5 74.0 ✓
168.2 ✓ −0.22 ✓

351.2
65.0 73.8 ✓ −0.24 ✓
158.2
251.2 93.0 ✓
166.8 ✓ −0.25 ✓

Index Above
253.0
337.5 84.5 ✓
83.8
153.0 69.2 ✓
153.7 ✓ −0.50 ✓

263.3
334.0 70.7 ✓ −0.44 ✓
75.0
164.0 89.0 ✓
159.7 ✓ −0.39 ✓

10 35 50
6 45. ✓
10 33 22. ✓
+5 1 10. ✓
15 34 32. ✓
8883.6490 ✓

P. A. 333.5 Vernier B

−0.34 ✓
7.35
mean, 6.98 ✓

W's watch used for times 1m 10 secs. slow

Gen. mean 7.00 ✓

✓

Sept. 7. 1910. (Wednesday).

Comet 1910 b (Metcalf)
Meast. of Nucleus. 2 obs. T. S. Corcoran rec.
Phot. T.

15 34 0 +16 56.2
-2 31. +11.
15 31 29. +17 7 (1855)

Comet 1910 b (Metcalf) compared with
+17° 2887 (7.8)
15 40 +15.9
19 . 21
+3 41

Index Above
110.9 Comp. Star dir.
8 19 45 126.8 15.9✓
290.0 15.0✓
305.0 30.9✓ +4.34✓

111.0 13.2✓ +4.33✓
124.2
288.1 17.9✓
306.0 31.1✓ +4.32✓
Index Left

Above Group finished on next page.

Sept. 7. 1910.

Index Below

16.0
38.0 22.0 ✓
200.6 14.6 ✓
215.2 36.6 ✓ +3.96 ✓

20.1 14.9 ✓
8 34 8 35.0 +4.02 ✓
197.8 20.0 ✓
217.8 34.9 ✓ +4.07 ✓

mean +4.18 ✓

(See p. 100)
Phot magn. nucleus of ☄ = $\frac{7.51}{11.69}$ ✓ ✓

Sept. 7. 1910.

+17° 2887 (7.8) compared with +16° 2807 (6.0).

Index Left and Above
88.5 ← Brtr. star dis'.
8.44. 52 144.2
280.7
817.1

101.5
134.0
266.5
326.0
~~Index Right and Below~~
Clouds

Stopped by clouds over whole sky.
We watch $1^m 2^s$ slow.

Sept. 8, 1910. (Thursday).

Comp. Star for Comet h, 1910. (Metcalf) (Obs. of last night) compared with +16° 2807 (6.0) (Phot. magn. 5.88v).

The Comp. Star for Comet 1910 h, (used in the phot. obs. of nucleus of ~~o~~ on last night) has no phot. magn., so it was joined with +16° 2807 (6.0) to night, — the latter having a phot. magn.

W. obs. J. S. Corcoran rec.
Phot. J.

15 40 +15.9
19 0
+3 20

For measts, see pp. 99 + 100.

Sept. 8. 1910.

Index Left and Above +16° 2807 (6.0) dis, I

88.5 59.9 ✓
7 48 5 148.4
280.8 36.2 ✓
317.0 $\overline{96.1}$ ✓ +1.75 ✓

100.0 39.2 ✓ +1.71 ✓
139.2
265.8 60.4 ✓
326.2 $\overline{99.6}$ ✓ +1.67 ✓

Index Right and Below

356.0
54.5 58.5 ✓
187.5
230.8 43.3 ✓
$\overline{101.8}$ ✓ +1.61 ✓

7.3 43.3 ✓ +1.62 ✓
7 53 45 50.6
179.5
237.8 58.3 ✓
$\overline{101.6}$ ✓ +1.62 ✓

mean +1.66 ✓

Sept. 8, 1910.

- Index Right and Below II

0.5 54.4✓
7.56 45 54.9
188.9 42.1✓
231.0 $\overline{96.5}$✓ +1.74✓

2.5 47.1✓ +1.58✓
49.6
176.6 62.6✓
239.2 $\overline{109.7}$✓ +1.42✓

Index Left and Above

267.0 61.4✓
328.4
98.8 38.3✓
137.1 $\overline{99.7}$✓ +1.66✓

275.0 41.1✓ +1.62✓
8 3 50 316.1
87.5 61.5✓
149.0 $\overline{102.6}$✓ +1.59✓

Mean +1.60✓
Gen. " +1.63✓

P. A 39.5 Ver. B. 5.88✓
∴ magn. of E C.S. = 7.51✓

∴ magn. +17° 2887 (7.8)

Sept. 2. 1910.

Sept. 8. 1910.

R Z Cassiop. W. obs. J. S. Corcoran rec.
Phot. J.

26 2^h 36^m +69.0
20 7

−6 29
+5 31

For measts. see fol. pages.

Sept. 8. 1910.

Index Above

Var. dis. I

	355.2			
9 9 17	58.9	63.7		
	186.0	46.4		
	232.4	110.1	-1.42	
	3.9			-1.42
9 11 15	52.0	48.1		
	177.2	62.2		
	239.4	110.3	-1.41	

Index Below

	267.5	61.5		
9 13 30	329.0			
	96.8	42.1		
	138.9	103.6	-1.57	
	277.0			
9 15 30	320.0	43.0		-1.56
49 32	85.9			
9 12 43	147.1	61.2		
+5 0		104.2	-1.55	
14 12 43.				

8923.5922

mean -1.49

Sept. 8. 1910.

Index Below II

267.5 63.3

9 20 17 330.8

95.4 44.6

140.0 107.9 -1.47

Clouds

276.2 -1.52

9 23 4 319.9 43.7

86.6

146.3 59.7 103.4 -1.57

Index Above

174.5

9 25 52 239.6 65.1

3.5

50.5 47.0 112.1 -1.37

184.0 -1.32

9 28 40 232.6 48.6

97 53 ✓ 353.1

9 24 28. ✓ 61.3 68.2 116.8 -1.26

+5 0 ✓ ✓

14 24 28.

8923.6003 ✓

mean -1.42

1910phae.proj..60SW

Sept. 8. 1910.

III

Index Above

174.7 65.6
9 34 35 240.3
4.4
49.6 $\frac{45.2}{110.8}$ −1.40

186.6 −1.44
9 36 57 229.5 42.9
355.0
60.0 $\frac{65.0}{107.9}$ −1.47

Index Below

88.4
9 39 25 147.3 58.9
277.9
317.2 $\frac{39.3}{98.2}$ −1.70

98.5 −1.75
9 41 30 138.9 40.4
152 27 ✓ 272.2
9 38 7. ✓ 326.0 $\frac{53.8}{94.2}$ −1.80
+5 0. ✓
14 38 7. ✓ mean −1.60
8923.6098 ✓ P.A. 28.6 Ver. B

Sept. 9. 1910. (Friday)

S Tr Ophiuchi: Tr. obs., J. S. Corcoran rec.
Phot. J.

16	15	−6.9
19	18	
+3	3	

For meass. see fol. pages.

Sept. 9. 1910.

Index Left and Above I

349.8 ← Comp. Star dec.

8 28 48 66.2 76.4

178.0

235.7 57.7 / 134.1 +0.89

357.9 61.3 +0.82

59.2

168.0

247.5 79.5 / 140.8 +0.76

Index Right and Below

256.8 81.1

337.9

85.7

149.4 63.7 / 144.8 +0.68

269.0

8 34 30 327.6 58.6 +0.74

63 18 76.6

8 31 39. 156.2 79.6 / 138.2 +0.81

+5 -23.

13 31 16. mean +0.78

8924.5634

Sept. 9. 1910.

Index Right and Below II

258.1 79.6

8 37 25 337.7

89.4 60.6

150.0 140.2 +0.77

266.6 60.6 +0.74

327.2

78.2 82.8

161.0 143.4 +0.71

Index left and above

174.6 63.4

238.0

347.0

66.5 79.5

142.9 +0.72

167.1 77.7 +0.80

8.45.18 244.8

8 2 43. 358.0 57.6

8 41 22. 55.6 135.3 +0.87

+5 -23.

13 40 59 mean +0.77

8924.5701

Sept. 9. 1910.

Index Left and Above III.

~~175.5~~
~~8 48 40~~ ~~237.7~~
167.0
8 51 20 248.0 81.0 ✓
358.4 60.0 ✓
58.4 141.0 ✓ +0.75 ✓

178.0 +0.78 ✓
237.8 59.8 ✓
346.8 78.0 ✓
64.8 137.8 ✓ +0.82 ✓

Index Right and Below
76.4 83.4 ✓
159.8
265.3 63.5 ✓
328.8 146.9 ✓ +0.64 ✓

82.1 67.3 ✓ +0.62 ✓
9 0 40 149.4
112 0. ✓ 255.0 80.8 ✓
8 56 0. ✓ 335.8 148.1 ✓ +0.61 ✓
+5 −23. ✓
13 55 37. ✓ mean +0.70 ✓
8924.5803 ✓

Sept. 9. 1910.

Index Right and Below. IV

75.5 81.1

9 2 55 156.6

268.2

326.1 $\frac{57.9}{139.0}$ +0.79

88.9 60.1 +0.73

149.0

252.8 $\frac{85.1}{145.2}$ +0.67

337.9

Index Left and Above.

345.2

68.0 82.8

175.8

235.2 $\frac{59.4}{142.2}$ +0.73

356.5 60.8 +0.68

57.8

162.5

249.4 $\frac{86.9}{147.7}$ +0.62

P.A. 349.4 Vr. B.

mean +0.70

9 12 18

15 13.

9 7 36.

+5 -23.

14 7 13.

8924.5883

Sept. 9. 1910.

Region not very high at beginning of measurements. Troubled somewhat by clouds during measurements also troubled by clouds before measurements but as observations of this variable were desirable and as considerable time was spent in identifying and getting hold of the region it was concluded to go ahead although the conditions were unfavorable. Moon somewhat bright and right below region, illuminating the field. At end of observations the object glass of telescope was at the upper edge of lowest small shutter. Observations very difficult throughout.

Sept. 9. 1910.

Double Star (new list) = Burnham's Cat, 10216. W. obs. J. S. Corcoran rec.; Phot. R.

20 21 — 2.5
21 33
+1 12

Abandoned.

W's watch used for times,
Watch 23 secs. fast.

Sept. 10. 1910. (Saturday)

Z Persei. Ht. obs. T. S. Corcoran rec.
Phot. T.

26
~~7~~   33   + 42.1
19   17
−7   16
+4   44

For meas'ts, see fol. pages.

Sept. 10. 1910.

Index Right and Above A.

101.2 ← Comp. Star dir. I
9 0 15 133.2 32.0 ✓
283.7 23.1 ✓
3068 55.1 ✓ +3.05 ✓

106.5 23.1 ✓ +3.0~ ✓
9 4 0 129.6
279.6 33.2 ✓
312.8 56.3 ✓ +3.00 ✓

Index Left and Below. B.

9.3
9 7 28 44.8 35.5 ✓
194.7
222.8 28.1 ✓
63.6 ✓ +2.73 ✓

13.5
9 10 44 40.0 26.5 ✓ +2.74 ✓
22 27 ✓ 189.1 36.2 ✓
9 5 37. ✓ 225.3 62.7 ✓ +2.76 ✓
+5 -7. ✓
14 5 30 ✓

mean +2.88 ✓

8925.5872 ✓

Sept. 10. 1910.

Index Left and Below B.

II

~~9.4~~
~~9 15 4~~ ~~46.2~~
~~2157~~
195.4 26.6
9 18 43 222.0
8.2 36.8
45.0 63.4 +2.73

186.5 +2.64
~~9 25 0~~ 227.4 40.9
12.9
41.0 28.1 / 69.0 +2.54

Index Right and Above A.

106.3
131.8 25.5
277.3 40.7
318.0 66.2 +2.64

98.3 +.2.59
9.26.37 139.3 41.0
45 20 283.1
9 22 40. 311.2 28.1 / 69.1 +2.54
+5 -7.
14 22 33.
8925.5990

mean +2.62

Sept. 10. 1910.

Index Right and Above A
III

101.5
9 30 27 133.4 31.9✓
274.0 46.2✓
320.2 78.1✓ +2.25✓

94.7 44.3✓ +2.34✓
9.32 40 139.0
283.2 28.0✓
311.2 72.3✓ +2.43✓

Index Left and Below B.

~~13.5~~ 10.9
9 36 55 42.0 31.1✓
183.7 47.3✓
231.0 78.4✓ +2.24✓

2.3 +2.28✓
9 39 40 47.2 44.9✓
19 42✓ 192.5 30.5✓
9 34 56.✓ 223.0 75.4✓ +2.33✓
+5 −7.✓
14 34 49.✓
8925.6075 −✓

mean +2.31✓

Sept. 10. 1910.

Index Left and Below B.

IV

13.5
9: 44. 22 44.4 30.9✓
183.9 46.4✓
230.3 77.3✓ +2.28✓

0.7 52.1✓ +2.14✓
9 47 37 52.8
190.6 34.9✓
225.5 87.0✓ +2.00✓

Index Right and Above A.

280.9
9 51 14 314.3 33.4✓
92.9 48.6✓
141.5 82.0✓ +2.14✓

269.5
9 53 20 321.4 51.9✓ +2.06✓
196 33✓ 99.0
9 49 8.✓ 134.3 35.3✓
+5 −7.✓ 87.2✓ +1.99✓
14 49 1.✓
8925.6174✓

Mean +2.10✓

Sept. 10. 1910.

Index Right and Above A. V

280.0 35.8✓
9 58 0 315.8
89.7
144.4 $\frac{54.7✓}{90.5✓}$ +1.90✓

271.0 53.0✓ +1.90✓
10 0 35 324.0
98.9
136.8 $\frac{37.9✓}{90.9✓}$ +1.89✓

Index Left and Below B.

189.7 38.2✓
10 3 55 227.9
359.0
54.2 $\frac{55.2✓}{93.4✓}$ +1.82✓

~~179~~ 180.0
10 6 18 235.6 55.6✓ +1.80✓
7.9
47.3 $\frac{39.4✓}{95.0✓}$ +1.78✓

mean +1.85✓

10	6	18
	248	48✓
39	6 2	12.✓
10	2	12.✓
+5		-7.✓
15	2	5.✓

8925.626 5-✓

Sept. 10. 1910.

VI

Index Left and Below B.

	188.9	39.4 ✓	
10 10 17	228.3		
	358.0	55.4 ✓	
	53.4	94.8 ✓	+1.79 ✓
	178.0	60.1 ✓	+1.70 ✓
10 13 0	238.1		
	7.0	41.3 ✓	
	48.3	101.4 ✓	+1.62 ✓

Index Right and Above A.

	97.8		
10 16 23	139.2	41.4 ✓	
	266.5		
	327.0	60.5 ✓	
		101.9 ✓	+1.61 ✓
	90.0		+1.64 ✓
10 18 44	148.2	58.2 ✓	
58 24 ✓	277.4		
10 14 36. ✓	318.8	41.4 ✓	
+5 −7. ✓		99.6 ✓	+1.67 ✓
15 14 29. ✓			
8925.6350 ✓			

Mean +1.67 ✓

Sept. 10. 1910.

Index Right and Above A

VII

97.0 41.5 ✓
10 25 20 138.5
265.2 59.0 ✓
324.2 100.5 ✓ +1.64 ✓

87.7 61.9 ✓ +1.58 ✓
10 27 40 149.6
276.3 44.2 ✓
320.5 106.1 ✓ +1.51 ✓

Index Left and Below B.

5.5 42.0 ✓
10 30 4 47.5
177.8 62.8 ✓
240.6 104.8 ✓ +1.54 ✓

356.5 61.3 ✓ +1.54 ✓
10 34 56 57.8 44.0 ✓
118 0 ✓ 186.0 105.3 ✓ +1.53 ✓
10 29 30. ✓ ~~231.6~~ 230.0
+5 -7. ✓ mean +1.56 ✓
15 29 23. ✓
8925.6454 ✓

P.A 197.0 Ver. B

W's watch 7s fast.

L. P. P.

Sept. 13. 1910. (Tuesday).

Double Star (new list) = Burnham's Cat. 10643.
Hr. Obs. T. S. Corcoran rec. Phot. R.
(one prism removed.)

20 r 3 +3.d
19 4K

-1 9
+10 r 11

P.A. 78°
Dist. 11"
Mag. 5.7 7.1

For measts. see fol. page.

Sept. 13. 1910.

Index Right and Above

8 3 27 | 99.9
150.0 50.1 ✓
285.6
330.2 44.6 ✓
94.7 ✓ 1.79 ✓

104.5
152.0 47.5 ✓ 1.74 ✓
281.3
332.0 50.7 ✓
98.2 ✓ 1.70 ✓

Index Left and Below

14.8
61.0 46.2 ✓
194.4
240.0 45.6 ✓
91.8 ✓ 1.87 ✓

12.5
61.2 48.7 ✓ 1.84 ✓
193.5
238.9 45.4 ✓
94.1 ✓ 1.81 ✓

8 9 50
13 17 ✓
8 6 38. ✓
+5 −19. ✓
13 6 19 ✓
8928.5460 ✓

mean 1.79 ✓

Continually troubled by clouds, Obs. made through clouds; Obs. difficult. W's watch 19^s fast.

L. P. P.

Sept. 21. 1910. (Wednesday.).

R T Persei. H. obs. T. S. Corcoran rec.
Phot. T

27
~~3~~ 33 +47.3
19 √6
-7 37
+14 23

Too cloudy and low. Abandoned for the present.

Double Star (new list) = Burnham's Cat. No. 10643.

20 √3 +3.8
19 √6
0 √7
+11 3

20 46
-0 7
+11 √3

mags. √7, 7.2 P. A. 75.° Dist. 10."85, mags. √8, 7.2
Photometer R. One prism removed.

Sept. 21, 1910.

Index Right and Above

282.0 ← 52.5✓ South Prec. + botr. dis.

8 59 57 334.5

103.9 46.3✓

150.2 98.8✓ 1.69✓

283.7 48.0✓ 1.63✓

331.7

99.8 55.7✓

155.5 103.7✓ 1.57✓

Index Left and Below

189.4 55.3✓

244.7

12.0 50.4✓

62.4 105.7✓ 1.52✓

194.5 1.60✓

9 8 40 242.0 47.5✓

8 37.✓ 12.3

9 4 18.✓ 63.4 51.1✓

+5 1 42.✓ 98.6✓ 1.69✓

14 6 0.✓

8936.5875✓

mean 1.62✓

Troubled by clouds in above west.

Sept. 21. 1910.

Double Star (new list) = Burnham's Cat. No. 10216. Tr. obs. T. S. Corcoran rec.

20 21 -2,5
21 36
+1 15

P.A. 189. Dist 1.0' mag. 6,5, 7,3

Sept. 21. 1910.

Phot. R. One prism removed.

Index Left

272.2 ← Northern + brtr. dis,

9 27 40 342.2 70.0

93.4

164.8 71.4 / 141.4 0.75

271.6

344.8 73.2 0.72

92.0

163.4 71.4 / 144.6 0.68

Index Right

183.0 68.2

251.2

0.0

74.0 74.0 / 142.2 0.73

183.4 69.1

9 35 18 252.5 0.80

6 2 58. 4.5 66.9

9 31 29. 71.4 136.0 0.86

+5 1 42.

14 33 11

8936.6063

mean 0.76

Sept. 21. 1910.

Double Star (new list) = Burnham's Cat.
1002 Lv. obs. T. S. Corcoran rec.
Phot. A. One prism removed.

20	9	+6.2
22	1	
+1	52	

P. A. 195. Dis. 45"

Sept. 21. 1910.

Index Right and Below

180.0 ← northern and slightly brighter disc.

9 54 48 260.1

80.1 ✓

358.5

80.5 ✓

79.0 160.6 ✓ 0.37 ✓

180.4

76.9 ✓ 0.38 ✓

257.3

357.4 82.6 ✓

80.0 159.5 ✓ 0.39 ✓

Index Left and Above

80.5 88.5 ✓

169.0

265.0

77.3 ✓

342.3 165.8 ✓ 0.27 ✓

82.8 83.2 ✓ 0.28 ✓

10 1 30 166.0

116 18 ✓

263.4 85.4 ✓

9 58 9. ✓ 348.8 168.6 ✓ 0.22 ✓

+5 1 42. ✓

14 59 51 ✓ W's watch. 1m 42s. slow,

8936.6249 ✓

mean 0.31 ✓

L. P. P.

Sept. 22. 1910. (Thursday).

U Ophiuchi. W. obs. M. Corcoran rec.
Phot. S.
7" Cap used

$$\begin{array}{cc} 17 & 9 \\ 20 & 10 \\ \hline +2 & +1 \end{array} \qquad +1.4$$

For meas'ts. see fol. pages.

Sept 22, 1910

Index Left B. I

254.0 → Var dis.

7 49 50 342.0 88.0 ✓

83.6 67.0 ✓

150.6 155.0 ✓ −0.48 ✓

265.0 68.5 ✓ −0.44 ✓

333.5

71.5 91.0 ✓

162.5 159.5 ✓ −0.39 ✓

Index Right A.

157.1 98.4 ✓

255.5

350.7 73.1 ✓

63.8 171.5 ✓ −0.16 ✓

170.3 75.9 ✓ −0.18 ✓

246.2

339.2 93.0 ✓

72.2 168.9 ✓ −0.21 ✓

~~8~~ 7 58 48

10 8 38 ✓

7 54 19. ✓

+5 1 55 ✓

12 56 14. ✓

8937.5390 ✓

mean −0.31 ✓

6.71 ✓

Magn. 6.40 ✓

Sept 22, 1910

Index Right A.

II

161.9 91.4

8 8 40 253.3

352.0

59.5 $\frac{67.5}{158.9}$ −0.40 ~~−0.21~~

−0.43 ~~−0.34~~

173.0 67.7

240.7

342.3

70.7 $\frac{88.4}{156.1}$ −0.46

Index Left B.

71.5 89.0

160.5

268.2

329.3 $\frac{61.1}{150.1}$ −0.57

88.0 61.0 −0.64

149.0

256.5

339.2 $\frac{82.7}{143.7}$ −0.70

8 16 5
24 45.
8 12 22.
+5 1 55.
13 14 17
8937.55 16

Mean = −0.54

6.71

Magn. 6.17

III
8 23 0

Sept. 22, 1910

Index Left B.

74.0   84.7 ✓
158.7
266.1   62.0 ✓
328.1   146.7 ✓   −0.64 ✓

86.0   60.7 ✓   −0.68 ✓
146.7
256.4   81.6 ✓
338.0   142.3 ✓   −0.73 ✓

Index Right A.

343.0   84.2 ✓
67.2
176.0   63.0 ✓
239.0   147.2 ✓   −0.63 ✓

355.0   65.0 ✓   −0.58 ✓
60.0
163.2   87.4 ✓
250.6   152.4 ✓   −0.53 ✓

8 32 55
55 55. ✓
8 27 58. ✓
+5 1 55. ✓
13 29 53 ✓
8937.5624 ✓

mean −0.63 ✓
6.71 ✓
Magn. 6.08 ✓

Sept 22, 1910

Index Right A. IV

343.2
8 38 20 70.2 87.0 ✓
176.5
238.0 61.5 ✓ / 148.5 ✓ −0.60 ✓

354.2
58.0 63.8 ✓ −0.59 ✓
164.5
250.4 85.9 ✓ / 149.7 ✓ −0.58 ✓

Index Left B.

256.5
338.0 81.5 ✓
88.2
144.0 55.8 ✓ / 137.3 ✓ −0.83 ✓

268.0
329.5 61.5 ✓ −0.79 ✓
77.2
157.0 79.8 ✓ / 141.3 ✓ −0.75 ✓

8 46 0
84 20. ✓
8 42 10. ✓
+5 1 55. ✓
13 44 5. ✓
8937.5723 ✓

mean −0.69 ✓
6.71 ✓
Magn. 6.02 ✓

V

Sept 22, 1910

Index Left B.

8 57 0

256.5 81.1✓
337.6
86.4 59.3✓
145.7 140.4✓ −0.77✓

268.6 58.3✓ −0.82✓
326.9
79.2 76.7✓
155.9 135.0✓ −0.88✓

Index Right A.

168.2 80.1✓
248.3
357.2 59.8✓
51.0 139.9✓ −0.78✓

177.0 61.1✓ −0.73✓
238.1
345.2 83.4✓
68.6 144.5✓ −0.68✓

mean −0.78✓
6.71✓
magn. 5.93✓

9 4 35
1 35.✓
9 0 48.✓
+5 1 55.✓
14 2 43✓
8937.5852✓

P. A. 216.5 Vernier B

W's watch used for times 1m 55secs slow

L. P. P.

Sept. 23. 1910. (Friday).

Double Star (new list) = Burnham's Cat. 10216

20 21 −2.5
19 55
−26
11 34

P. A. 190°. Dist 1.0' Mags. 6.5, 7.2

For measts. see fol. pages.

At Phot. R. one prism removed.

Sept 23 1910

Index Right & Above

7 36 0

10.5 58.1
68.6

177.9 80.6
258.5 138.7 0.80

355.4 85.7 0.70
81.1
186.2 62.8
249.0 148.5 0.60

Index Left & Below

276.0 59.5
335.5
87.0 78.0
165.0 137.5 0.82

267.9 79.3 0.78
347.2
96.0 63.0
159.0 142.3 0.73

mean 0.74

7 42 50
78 50.
7 39 25.
+5 +27.
12 39 52.
89 38.5277

Troubled by clouds.

Sept. 23. 1910.

Double Star (new list) = Burnham's Cat. 10643.

20 53 +3.4
20 14
— 39
11 41

Wa watch used for times.
Watch 27 secs. slow.

L. A. A.

Sept. 26. 1910. (Monday).

RZ Cassiop.

W. obs. T. S. Corcoran rec.
Phot. T.

26 ~~2~~	36	+69.0
20	17	
−6	19	
+r	41	
+6	1	

Sept. 26. 1910.

Index Above A.

183.7 ← Var. des.

8 12 45 234.9 51.2 ✓

8.0 35.8 ✓

43.8 87.0 ✓ −2.00 ✓

189.2 −1.95 ✓

225.1 35.9 ✓

359.8 54.6 ✓

54.4 90.5 ✓ −1.90 ✓

Index Below B.

92.8 50.2 ✓

143.0

280.5 33.1 ✓

318.6 83.3 ✓ −2.10 ✓

101.5 34.0 ✓ −2.10 ✓

135.5

271.7 49.1 ✓

320.8 83.1 ✓ −2.10 ✓

mean −2.02 ✓

P.A. 208.7 Ver. B

8 21 26

34 11. ✓

8 17 6. ✓

+5 +54. ✓

13 18 0. ✓

8941.55 42 ✓

Sept. 26. 1910.

~~Index Below~~

Progressively growing foggy throughout evening. Tried a variarable with 9.5" cap on telescope ~~at~~ first but as fog was steadily accumulating took off cap, so that the group taken was with the full aperture.

The group on previous page was taken with much difficulty through dense fog. Immediately after the group was finished both variable and comparison star dissapeared entirely in telescope. No stars visible to the naked eye at present time.

W's watch used for times. Watch 54 s slow.

L. P. P.

Sept. 28. 1910. (Wednesday).

R X Herculis. W. obs. Ver. Corcoran rec.
Phot. I.
9".5 cap.

18 16 +12.0
20 5
+1 49

20 40
+2 24

For measts. see fol. pages.

Sept 28, 1910

I

Index above A.

268.0 → Var. dia

8 12 35 325.2 57.2 ✓

99.0

138.0 39.0 ✓ / 96.2 ✓ −1.75 ✓

277.5 39.0 ✓ −1.69 ✓

316.5

86.8 62.0 ✓

148.8 101.0 ✓ −1.63 ✓

Index Below B.

174.5 63.4 ✓

237.9

6.5 42.0 ✓

48.5 105.4 ✓ −1.53 ✓

185.5 40.5 ✓ −1.56 ✓

8 20 5 226.0

32 40. ✓ 354.5 62.0 ✓

2 16 20. ✓ 56.5 102.5 ✓ −1.60 ✓

45 1 31. ✓

13 17 51. ✓ mean −1.62 ✓

49 43.5541 ✓

Sept 28, 1910

Index Below B.

II

177.5 62.0 ✓

8 26 45 239.5

5.9 41.6 ✓

47.5 $\frac{41.6}{103.6}$ ✓ −1.57 ✓

187.8

229.5 41.7 ✓ −1.52 ✓

352.5 66.5 ✓

59.0 $\frac{66.5}{108.2}$ ✓ −1.46 ✓

Index Above A.

87.5 61.4 ✓

148.9

277.4 42.1 ✓

319.5 $\frac{42.1}{103.5}$ ✓ −1.57 ✓

96.8 41.2 ✓ −1.59 ✓

138.0

267.0 60.5 ✓

327.5 $\frac{60.5}{101.7}$ ✓ −1.61 ✓

mean −1.56 ✓

8 34 45
61 30. ✓
8 30 45. ✓
45 1 31. ✓
13 32 16. ✓
8943.5641 ✓

III

Sept 28, 1910

Index above A.

8 41 50

86.5 61.4 ✓
147.9
275.5 42.3 ✓
317.8 103.7 ✓ −1.57 ✓

95.0 45.0 ✓ −1.50 ✓
140.0
264.5 65.1 ✓
329.6 110.1 ✓ −1.42 ✓

Index Below A.

353.0 69.0 ✓
62.0
184.2 46.3 ✓
230.5 115.3 ✓ −1.30 ✓

4.3 46.2 ✓ −1.30 ✓
50.5
174.0 68.6 ✓
242.6 114.8 ✓ −1.31 ✓

mean −1.40 ✓

8 49 50
9 1 40. ✓
8 45 50. ✓
+5 1 31. ✓
13 47 21. ✓
8943.5746 ✓

Sept 28, 1910

Index Below B. IV

352.0 68.5✓

8 57 25 60.5

185.2 46.1✓

231.3 114.6✓ -1.31✓

3.8

52.2 48.4✓ -1.31✓

175.5 66.3✓

241.8 114.7✓ -1.31✓

Index above A.

264.7 65.5✓

330.2

92.7 47.8✓

140.5 113.3✓ -1.34✓

274.5 -1.31✓

321.8 47.3✓

83.5 68.6✓

152.1 115.9✓ -1.28✓

Mean -1.31✓

9 7 25

4 50.✓

9 2 25.✓

75 1 31.✓

14 3 56.✓

8943.5860✓

V

Sept 28, 1910

Index Above A.

260.5 69.6 ✓
330.1

96.7 42.8 ✓
139.5 112,4 ✓ −1,36 ✓

275.2 45.8 ✓ −1,34 ✓
321.0

84.2 68.1 ✓
152.3 113.9 ✓ −1,3$\overset{3}{X}$

Index Below B.

173.6 68,3 ✓
241.9

3.0 48.4 ✓
51.4 116.7 ✓ −1,27 ✓

186.6 45.7 ✓ −1,26 ✓
232.3

352.0 71.3 ✓
63.3 117,0 ✓ −1,26 ✓

Mean −1,30 ✓

9 14 10

9 23 20

37 30. ✓
9 18 45. ✓
+5 1 31. ✓

14 20 16. ✓
8943.5974 ✓

Sept 28, 1910
Index Below B.
VI

173.7 68.3✓
9 27 50 242.0
3.0 46.5✓
49.5 114.8✓ −1.31✓

186.0 47.4✓ −1.30✓
233.4
353.0
61.5 68.5✓
115.9✓ −1.28✓
Index Above A.
83.9
151.4 67.5✓
275.5
321.0 45.5✓
113.0✓ −1.35✓

95.0 46.5✓ −1.33✓
141.5
262.5 68.5✓
331.0 115.0✓ −1.31✓

9 34 30
62 20.✓
9 31 10.✓
45 1 31.✓
14 32 41✓
8943.6060✓

mean −1.32✓

Sept 28, 1910

VII

Index Above A.

85.5
9 38 45 — 149.0 63.5
275.5 44.5
320.0 108.0 -1.46

95.5
141.5 46.0 -1.42
264.4 66.1
330.5 112.1 -1.37

Index Below B.

350.5
59.9 69.4
185.0 44.0
229.0 113.4 -1.34

5.0
9 45 30 — 49.9 44.9 -1.37
175.5 66.0
241.5 110.9 -1.40

8 4 15.
9 42 8.
+5 1 31.
14 43 39. P. A. 151.0 Vernier B mean -1.40
8943.6136

W's watch used for Times 1^m 31 secs. slow

L. P. P.

Sept. 29. 1910. (Thursday).

Double Star (new list) = Burnham's Cat. 10643.
W. obs. Mc. Corcoran rec.
Phot. R. one prism removed.

20 √3 +3.2
20 14
— 3 9
+11 21

P. A. 78 Dist. 11" Mags. 5.7 7.3

For meast. see fol. page.

Sept 29, 1910
Index Below

15.2 → S. pr. + bitr. dis.
7 37 40 — 63.7 48.5
189.6
242.9 $\frac{53.3}{101.8}$ 1.61

11.0 51.7 — 1.64
62.7
193.6 $\frac{48.3}{100.0}$ 1.66
241.9

Index Above

286.4 45.8
332.2

101.2 51.6
152.8 $\frac{51.6}{97.4}$ 1.72

281.5 50.4 — 1.73
7 43 30 — 331.9
104.8 46.4
151.2 $\frac{46.4}{96.8}$ 1.74

mean 1.68

7 43 30
21 10.
7 40 35.
5 1 46.
12 42 21
8944.5295–

Sept. 29. 1910.

T T Aurigae. H. obs. Mr. Corcoran vac.
Phot. T.

29
~~5~~ 9 +40.0
20 49

−8 20
+3 40

For measts. see fol. pages.

Sept 29, 1910

I

Index Left B.

258.0 — Var. dir.

8 33 25 335.2 77.2

89.5

146.0 56.5 / 133.7 −0.90

270.1 55.7 −0.86

325.8

78.2 81.6

159.8 137.3 −0.83

Index Right A.

167.6 80.3

247.9

357.5 60.7

58.2 141.0 −0.75

177.4 57.9 −0.74

235.3

344.0 84.6

68.6 142.5 −0.72

mean −0.80

8 40 45

74 10.

8 37 5.

+5 1 46.

13 38 51.

8944.5687

Sept 29, 1910

Index Right A. II

8 44 45

166.6
249.3 82.7
357.3 57.4
54.7 140.1 −0.77

178.0 58.2 −0.72
236.2
346.0 86.3
72.3 144.5 −0.68

Index left B.

77.5
155.5 78.0
265.6 62.8
327.4 140.8 −0.76

88.1 60.1
148.2 −0.80
260.3 77.2
337.5 137.3 −0.83

mean −0.76

8 51 15

96 0.
−8 48 0.
+5 1 46.
13 49 46.
8944.5763

III

Sept 29, 1910

Index Left B

8 54 25

79.4
158.7 79.3 ✓
268.5
333.0 64.5 ✓
143.8 ✓ −0.70 ✓

89.5
144.8 55.3 ✓ −0.78 5 ✓
257.5
340.2 82.7 ✓
138.7 ✓ −0.80 ✓

Index Right A.

344.8
69.5 84.7 ✓
178.0
235.6 57.6 ✓
142.3 ✓ −0.73 ✓

356.3
57.8 61.5 ✓ −0.68 ✓
165.0
250.5 85.5 ✓
147.0 ✓ −0.63 ✓

mean −0.72 ✓

9 1 30

11 5 55. ✓
8 57 58. ✓
+5 1 46. ✓

13 59 44. ✓
8944.5831 ✓

Sept 29, 1910

Index Right A. IV

9 6 5

344.0 84.5 ✓
68.5
172.7 66.3 ✓
239.0 150.8 ✓ −0.56 ✓

354.5 65.2 ✓ −0.52 ✓
59.7
160.8 90.4 ✓
251.2 155.6 ✓ −0.47 ✓

Index Left B.

255.7 84.8 ✓
340.5
87.4 60.8 ✓
148.2 145.6 ✓ −0.66 ✓

266.5 60.4 ✓ −0.66 ✓
326.9
73.5 85.5 ✓
159.0 145.9 ✓ −0.66 ✓

−0.59 ✓

9 13 5

19 10. ✓
9 9 35. ✓
45 1 46. ✓

14 11 21. ✓
8944.5 913 ✓

V

9 19 15

Sept 29, 1910

Index ~~Left~~ B.

257.0 83.0 ✓
340.0
86.0 61.0 ✓
147.0 144.0 ✓ −0.69 ✓

268.0 60.0 ✓ −0.64 ✓
328.0
72.0 89.9 ✓
161.9 149.9 ✓ −0.58 ✓

Index Right A.

161.3 91.9 ✓
253.2
353.5 68.0 ✓
61.5 159.9 ✓ −0.38 ✓

175.5 67.4 ✓ −0.44 ✓
242.9
345.1 86.7 ✓
71.8 154.1 ✓ −0.50 ✓

mean −0.54 ✓

9 25 40

44 55. ✓
9 22 28. ✓
45 1 46. ✓

14 24 14. ✓
8944.6001 ✓

Sept 29, 1910

Index Right A. VI.

165.0
252.7 87.7 ✓
351.5 68.5 ✓
60.0 156.2 ✓ −0.45 ✓

9 30 10

176.9 66.1 ✓ −0.48 ✓
243.0
339.9 94.9 ✓
74.8 161.0 ✓ −0.36 ✓

Index Left B.

72.5 88.5 ✓
161.0
265.8 63.9 ✓
329.7 152.4 ✓ −0.53 ✓

84.0 67.6 ✓ −0.50 ✓
151.6
253.5 87.5 ✓
341.0 155.1 ✓ −0.48 ✓

Mean −0.45 ✓

9 36 30
66 40. ✓
9 33 20. ✓
45 1 46. ✓
14 35 6. ✓
8944.6077 ✓

VII

Sept 29, 1910
Index Left B.

71.0
9 38 20 163.0 92.0
265.7 62.6
328.3 $\frac{62.6}{154.6}$ −0.49 ✓

81.7 71.3 −0.43 ✓
153.0
251.5 89.1
340.6 $\frac{89.1}{160.4}$ −0.37 ✓

Index Right A.

339.2
75.1 95.8
173.2 67.9
341.1 $\frac{67.9}{163.7}$ −0.31 ✓

352.0 69.9 −0.33 ✓
61.9
160.7 91.8
252.5 $\frac{91.8}{161.7}$ −0.35 ✓

Mean = 0.38 ✓

9 44 45
8 3 5. ✓
9 41 32. ✓
5 1 46. ✓
14 43 18. ✓
8944.6134 ✓

Sept 29, 1910
Index Right A. VIII

9 46 20

340.0
72.4 92.4
173.8 66.8
240.6 159.2 -0.40

351.1 -0.28
65.5 74.4
159.0 96.9
255.9 171.3 -0.16

Index Left B.
253.5
341.4 87.9
83.5
153.5 70.0
157.9 -0.42

9 53 0
263.5 67.5 -0.41
99 20.
331.0
71.0 91.3
9 49 40.
162.3 158.8 -0.40
5 1 46.
14 51 26.
Mean -0.34
0944.6190

IV

Sept 29, 1910

Index Left B.

9 55 0

253.4
343.5 90.1 ✓
82.5 68.5 ✓
151.0 158.6 ✓ −0.41 ✓

264.8 68.7 ✓ −0.34 ✓
333.5 96.6 ✓
69.0 165.3 ✓ −0.28 ✓
165.6

Index Right A.

158.0 95.6 ✓
253.6
353.0 73.2 ✓
66.2 168.8 ✓ −0.21 ✓

168.0 78.5 ✓ −0.14 ✓
246.5
337.0 97.7 ✓
74.7 176.2 ✓ −0.07 ✓

10 0 45
11 45. ✓
9 57 52. ✓
45. 1 46. ✓
14 59 38 ✓
8944.6247 ✓

P. A. 337.0 Vernier B mean −0.24 ✓

W's watch used for times 1m 46 secs slow.

L. A. P.

Sept. 30. 1910. (Friday).

S T Persei. V. obs. T. S. Corcoran rec.
Phot. T.

```
  26
  ~~2~~   v 0      + 29.1
  20    23
 -----------
 - 6    27
 + v    33
```

For meas'ts, see fol: pages.

Sept. 30. 1910.

Index Above A.

253.8 86.9 ✓

8 6 48 340.7

83.4 66.8 ✓

150.2 $\overline{153.7}$ ✓ 0.50 ✓

266.3 65.1 ✓ 0.53 ✓

331.4

76.0 85.6 ✓

161.6 $\overline{150.7}$ ✓ 0.56 ✓

Index Below B.

164.5 84.9 ✓

249.4

353.2 67.8 ✓

61.0 $\overline{152.7}$ ✓ 0.52 ✓

169.5 69.5 ✓ 0.48 ✓

8 17 18 239.0

24 6. ✓ 343.4 87.6 ✓

8 12 3 ✓ 71.0 $\overline{157.1}$ 0.44 ✓

+5 1 46. ✓ mean 0.50 ✓

13 13 49. ✓

8945.5513 ✓ Much troubled by clouds in above group.

Sept. 30. 1910.

Index Below B

177.0 74.8 ✓
8 21 48 251.8
357.2
55.6 58.4 ✓
133.2 ✓ 0.91 ✓

179.2 57.6 ✓ 0.80 ✓
236.8
343.7 86.5 ✓
70.2 144.1 ✓ 0.69 ✓

Index Above A.

78.4 83.2 ✓
161.6
266.0 64.0 ✓
330.0 147.2 ✓ 0.63 ✓

87.9 61.9 ✓ 0.64 ✓
149.8
254.8 84.7 ✓
339.50 146.6 ✓ 0.64 ✓
mean 0.72 ✓

8 29 17
51 0. ✓
8 25 30. ✓
+5 1 46. ✓
13 27 16. ✓
894~~4~~5.5606 ✓

Sept. 30. 1910.

Index Above

71.3

8 33 20 159.0

267.0

327.2

84.1

149.2

258.0

338.0

Index Below

Sept. 30. 1910.

Index Below B.

163.4 87.8

8 58 0 251.2

358.5 57.5

56.0 145.3 0.67

181.9 56.4 0.74

238.3

344.8 82.0

66.8 138.4 0.81

Index Above A.

75.1 85.2

160.3

265.8 57.4

323.2 142.6 0.72

85.2 64.5 0.62

9 3 14 149.7

1 14. 251.8 88.2

9 0 37. 340.0 152.7 0.52

45 1 46. mean 0.68

14 2 23 P.A. 68.3 Ver. B.

8945.5850

Troubled whole evening by clouds.
Watch correction not taken but the correction of Sept. 29. assumed.

L. P. P.

Oct. 26. 1910. (Wednesday).

W Delphini: W. obs. Michael
Corcoran rec. Phot. J.

20	31	+17.2
22	0	
+1	29	

For meas'ts see fol. pages.

Oct 26, 1910

Index Left & Above B. I

86.5 → Comp Star dis.

7 44 20	149.0	62.5	
	275.8	39.0	
	314.8	101.5	+1.62
	97.6	42.8	+1.49
7 46 40	140.4		
	260.4	69.6	
	330.0	112.4	1.36

Index Right & Below A.

	354.3	61.9	
7 54 0	56.2		
	186.8	41.0	
	227.8	102.9	+1.59
	5.2	43.6	+1.52
7 56 0	48.8		
201 0	175.2	65.3	
7 50 15	240.5	108.9	+1.44
+5 0 0.			
12 50 15.			
8971.5348			

mean +1.50

9.31

mag. 10.81

II

Oct 26, 1910

Index Right & Below A.

354.7
8 0 30 — 57.3 — 62.6
183.5 — 44.7
228.2 — 107.3 — +1.48

3.5 — 45.5 — +1.40
8 2 40 — 49.0 — 69.3
173.4 — 114.8 — +1.31
~~243.5~~ 242.7

Index Left & Above B.

258.6 — 66.9
8 5 45 — 325.5
93.2 — 50.3
143.5 — 117.2 — +1.25

273.0 — 45.0 — +1.22
8 7 40 — 318.0
81.4 — 75.4
156.8 — 120.4 — +1.18

16 35
2 4 9.
+5 0 0.
13 4 9
2971.5445 –

mean +1.31
9.31
magn 10.62

Oct 26, 1910

Index Left & Above B. III

260.0

8 10 45 332.5 72.5

92.0 49.5

141.5 122.0 +1.15

272.0 46.8 +1.18

8 13 0 318.8

85.0 73.0 +1.20

158.0 119.8

Index Right & Below A.

171.5

8 15 45 242.0 70.5

6.0 45.5

51.5 116.0 +1.20

184.0 46.0 +1.31

8 17 55 230.0

57 25. 355.5 67.5

8 14 21. 63.0 113.5 +1.34

+5 0 0.

13 14 21.

8971.5517

Mean +1.24

9.31

[illegible] 10.55

IV

Oct 26, 1910

Index Right & Below A.

171.0
8 27 25 247.2 76.2
1.7
53.5 51.8 / 128.0 +1.02

182.4 50.4 +1.06
8 30 7 332.8
350.0 74.5 / 124.9 +1.09
64.5

Index Left & Above B.

77.6
8 35 10 157.4 79.8
269.0 55.2
324.2 135.0 +0.88

91.0 54.0 +0.90
8 ~~35~~ 37 55 145.0
130 37 256.8 79.0
8 32 39. 335.8 133.0 +0.92
+5 0 0.
13 32 39.
8971.5643

mean + 0.98
9.31
mean 10.29

Oct 26, 1910
Index Left & above B. V

78.0
8 50 15 159.0 81.0
270.0 54.5
324.5 135.5 +0.87

90.0 59.3 +0.82
8 52 0 149.3
255.0 80.5
335.5 139.8 +0.78

Index Right & Below A.
344.1
8 54 40 68.0 83.9
~~18~~180.0 53.0
233.0 136.9 +0.84

1.7 53.3 +0.89
8 56 50 55.0
165.5 78.7
244.2 132.0 +0.94

13 45
8 53 26.
+5 0 0.
13 53 26.
8971.5788

mean +0.86
9.31
magn. 10.17

Oct 26 1910

VI Index Right + Below A.

350.5
9 1 0 65.0 74.5
178.0 56.0
234.0 130.5 +0.97

358.8 57.2 +0.86
9 2 40 56.0
165.5 84.0
249.5 141.2 +0.75

Index Left + Above B.

254.0 81.2
9 5 35 335.2
85.0 61.1
146.1 142.3 +0.73

268.0 57.5 +0.70
9 7 45 325.5
17 0
74.0 88.0
9 4 15 162.0 145.5 +0.66
+5 0 0 mean +0.78
14 4 15 P.A. 349.8 Vernier B 9.31
8971.5862 Magn. 10.09

W's stwatch used for times 0 secs.

Somewhat troubled by cloud, especially in the last group.

L. P. P.

Oct. 28. 1910. (Friday).

8 3 0 Sky too cloudy for work.

Oct. 29. 1910. (Saturday).

Double Star (new list) = Burnham's Cat. 10943. Plat. R. One prism removed.

21 18 −7.1
22 42
+1 24

21 18
22 52
+1 34

For measts. see next page.

P. A. 87° Dist 40.″ Mags. 7.2, 7.7

Oct. 29. 1910.

L + B

189.1 58.1

8 21 0 ± 247.2

351.0 90.8

81.8 148.9 0.60

173.5 88.5 0.56

262.0

3.8 64.0

67.8 152.5 0.53

R + A

94.2

183.2 69.0

262.9

351.1 88.2

157.2 0.43

79.2

8 40 0 ± 171.3 92.1 0.40

61 0 272.2 67.8

8 30 30 340.0 159.9 0.38

+5

13 30 30. Mean 0.48

8974.5628

W's watch used for times. Watch 47s slow.

L. P. P.

Nov. 7. 1910. (Monday).

U Cephei.

$\overset{23}{\cancel{2}}$ 50 +81.2

Omitted.

Z Persei.

~~$\overset{26}{2}$ 31 +41.6~~

26 33 +42.1
23 2
- 3 31
+ 8 29

Abandoned.

Nov. 7. 1910.

Double Star (new list) = Burnham's Cat. 10943.

21 17 −7.1
23 37
+2 20

For measts. see fol. page.

Nov. 7. 1910.

8 33 5

88.5 69.7✓
158.2
259.2 86.0✓
345.2 155.7✓ +0.46✓

85.2
164.1 78.9✓ +0.56✓
271.0 67.0✓
338.0 145.9✓ +0.66✓

358.9 65.9✓
64.8
169.1 87.9✓
257.0 153.8✓ +0.50✓

346.9 91.0✓ +0.44✓
77.9
181.0 69.7✓
250.7 160.7✓ +0.37✓

mean 0.50✓

8 53 15

86 20.✓
8 43 10.✓
+5

13 43 10.✓
8983.5716✓

L. P. P.

Nov. 11. 1910. (Friday).

R W. Geminorum. W. obs. Julian K. Tebbetts
Phot. T.

29 55 +23.2
23 15

−6 40
+5 20

+

Nov. 12. 1910. (Saturday)

U Cephei. W. obs. J. K. Tebbutts rec.
Phot. T. Full aperture.

24
8 50 +81.2
22 48

2 2

9 58

For measts. see fol. pages.

Nov. 12, 1910.

Index Left. B.

I

Var. dis.

353.0
61.0 68.0
181.0 51.6
232.6 119.6 −1,20

7-16-40

0.1 55.2 −1,12
~~54.7~~ 55.3
170.1 72.4
~~243.1~~ 242.5 127.6 −1,03

Index right. A.

258.7 76.3
335.0
88.0 70.5
158.5 146.8 −0,64

267.5 53.9 ~~−2,12~~
321.4 −1,06
92.2 53.4
145.6 107.3 −1,48

7-24-20
41 0. ✓
7 20 30 ✓
45 0 22. ✓
12 20 52 ✓
8988. 5/45 — ✓

−1,09

~~9~~ Nov. 12. 1910.

Index Right A. II

7 . 32 - 30

265.1 60.3
325.4
78.~~0~~ 4 76.4
154.8 136.7 −0.84

259.6 75.6 −0.80
335.~~0~~ 2
85.5 64.7
150.~~9~~ 2 140.3 −0.77

Index left. B.

182.2 518
~~233.4~~ 234.0
~~349.1~~ 349.1 73.4
62.5 ~~63.0~~ 125.2 −1.08

164.~~0~~ 7 77.6 −1.02
~~245.0~~ 244.3
~~3.4~~ 2.0 54.0
~~55.4~~ 56.0 131.6 −0.95

7 - 38 - 15

7	0	45. ✓
7	35	22. ✓
+5	0	22. ✓
12	35	44. ✓

8988.52.4~~5x~~ 8 ✓

−0.91 ✓
8.41 ✓
Mag. 7.50

Nov. 12. 1910.
Index left B. III

~~180.2~~ 179.6
7-43-10 ~~236.0~~ 237.0 57.4
341.7 85.5
67.2 142.9 −0.72
~~76~~
169.0 −0.77
248.~~8~~0 79.0
~~2.0~~ 1.0 58.5
~~58.9~~ 59.5 137.5 −0.82
Index right. A.
~~71.9~~ 72.8 87.5
~~161.3~~ 160.3
~~266.6~~ 265.3 68.7
334.0 156.2 −0.45

~~83.0~~
83.0 67.6 −0.48
7.48.45 150.6 85.1
91 55. 152.7
7 45 58 257.3 −0.52
+5 0 22. ~~343.0~~ 342.4
12 46 20.
8988.5321

−0.62
8.41
7.79

Nov. 12, 1910.

Index Right 8. IV

7.55.40

71.6 90.8
162.94
263.9 70.6
334.05 160.4 −0.37.

−0.40
85.80 67.5
~~151.0~~ 152.5
252.0 90.1
~~341.5~~ 342.1 157.6 −0.43

Index left.

~~358.0~~ 356.5
~~57.0~~ 59.0 62.5
166.6
~~251.4~~ 250.5 83.9
146.4 −0.65
~~347.4~~ ~~346.9~~
~~68.5~~ ~~68.0~~ 346.9 81.1 −0.70
68.0
~~178.5~~ 177.8 60.6
238.4 141.7 −0.74

8.2.25
11 8 5. ✓
7 59 2. ✓
+5 0 22. ✓
12 59 24. ✓
8988.5413 ✓

−0.55 5 ✓
8.41 ✓
Mean. 7.86 ✓

Nov. 12. 1910

Index left B. V

~~355.5~~ 354.5

8.7.30 ~~56.2~~ 57.6 63.1

~~161.5~~ 162.0

~~252.8~~ 252.3 90.0

153.1 -0.51

342.4

72.8 90.4 -0.50

~~178.5~~ 177.4 64.5

241.9 154.9 -0.48

Index right. A.

252.0

345.0 93.0

~~178.1~~

~~154.7~~ 155.3 77.2

170.2 -0.19

~~263.0~~ 261.5

8.13.40 337.61 75.6 -0.14

21 10.5 67.4

8 10 35 167.8 100.4

+5 0 22 176.0 -0.08

13 10 57 ~~-0.16~~

8988.5493 P. A. 198.0 Ver. B.

-0.32

W's watch used for times. 8.41

Watch 22 secs. slow. Impn. 8.09

L. P. P.

Nov. 15. 1910. (Tuesday).

Cloudy, but practised (with Mr. Ibbotts) taking times preliminary to Sal'fire tomorrow night.

Nov. 16. 1910. (Wednesday).

Fr. 3451

8	46	56.1
	47	56.0
	48	56.0

Bond 394.

5 6	58	0.0
	59	0.0
6 7	0	0.0

Nov. 16. 1910.

No.		Time	Magn.	P.A.
50	9h			
40				
38 →		47 - ~~30~~ 27.0	8.3	274°
44				
48				
54		53 - 28.5	9.5	63
41	10h	8 - 11.0	8.3	254
43		16.30.0 ±	9.5	261
44				
61		23.12.5	9.0	105
47				
50		36.21.0	9.5	233
48		38.42.0	9.5	275

Nov. 16. 1910.

No.	
50	lost in clouds.
40	lost in clouds.
32	emersion.
44	lost in clouds.
42	lost in clouds.
54	through clouds; ~~immersion~~.
41	sky rather clear; emersion.
43	~~Em~~mersion; very difficult, and somewhat uncertain.
44	abandoned, in order to take 61.
61	immersion, sky pretty clear, observation good.
47	missed.
50 ~~48~~	emersion – pretty good
48	pretty good, emersion

Apr. 16, 1910.

No.	Time	Magn.	P. A
	10h -47.49.5	7.9	~~2~~ 140°±

Nov. 16. 1910.

~~tw~~

---

an immersion; observation good,

L. P. P.

Nov. 16. 1910.

Fr. 3451.			Bond 394		
11	19	20.5	8	30	0.0
	20	20.5		31	0.0
				~~32~~	~~0.0~~
11	21	20.6		32	0.0

L. A. P.

Nov. ~~16~~ 17. 1910. (Thursday).

U Cephei.

I

2~~6~~4
0 √0 +81.2

23 7

-1 43
+10 17

Index Left ~~170.0~~ B.

166.0 Var. dis.
7.15.0 246.1 80.1
357.5 √9.3
56.8 139.4 -0.79

-0.80
177.8 ~~108.6~~
236.4 ~~286.4~~ √86
346.7 79.9
66.6 138.5 -0.80

Index right A.

74.1 864
160.5
266.3 60.0
326.3 146.4 -0.65

-0.66
89.5 √6.4
7.22.15 145.9
37 N. 252.6 88.4
7 18 38. 341.0 1448 -0.68
+√ 0 23.
12 19 1
8993, √132

mean -0.73
8.41
magn. 7.68

Nov. 17. 1910.
Index right. A.

II

~~72.65~~
~~159.2~~

7-27-10

87.0   63.2 ✓
150.2
250.4   89.9 ✓
340.3   153.1 ✓   -0.51 ✓

72.2   90.5 ✓   -0.46 ✓
162.7
262.4   68.2 ✓
330.6   158.7 ✓   -0.41 ✓

Index left, B.

344.5   84.2 ✓
68.7
176.5   60.8 ✓
237.3   145.0   -0.67 ✓

356.0   61.2 ✓   -0.67
57.2
165.6   84.0 ✓
249.6   145.2 ✓   -0.67 ✓

7.33.15
60 25. ✓
7 30 12. ✓
+5 0 23. ✓
12 30 35. ✓
8993.5212 ✓

mean -0.56 ✓
8.41 ✓
Mag. 7.85 ✓

Nov. 17. 1910.

Index left B.

III

341.5
7.37.0 71.8 90.3
177.6 61.3
238.9 151.6 −0.54

357.3 63.6 −0.58
60.9
164.4 84.3
248.7 147.9 −0.62

Index right, A.

249.7 92.3
342.0
79.5 72.5
152.0 164.8 −0.29

263.0 66.8 −0.31
7.43.10 329.8
70.0 96.0
166.0 162.8 −0.33

8 0 10.
7 40 5.
+5 0 23.
12 40 28.

8993.5281

mean −0.44
8.41
Mag. 7.97

Nov. 17. 1910.

247.1 Index right. A.

7.50.15 344.5 97.4 IV

82.0 76.2 ✓

158.2 173.6 ✓ −0.12 ✓

261.6 72.8 ✓ −0.13 ✓

334.4

68.5 99.7 ✓

168.2 172.5 ✓ −0.14 ✓

Index left. B.

172.0 69.2 ✓

241.2

340.6 92.1 ✓

72.7 161.3 ✓ −0.36 ✓

162.9 88.7 ✓ −0.40 ✓

7.56.5 251.6

6 20. ✓ 353.0 67.8 ✓

7 53 10 ✓ 60.8 156.5 ✓ −0.45 ✓

+5 0 23. ✓

12 53 33. ✓ Mean −0.26 ✓

8993.5372 ✓ 8.41 ✓

Supp. 8.15 ✓

Nov. 17. 1910.

Index left. B.

V.

171.4 73.5 ✓

8.0.50 244.9

340.7 93.1 ✓

73.8 166.6 ✓ −0.25 ✓

160.1 93.2 ✓ −0.27 ✓

253.3

350.9 71.5 ✓

62.4 164.7 ✓ −0.29 ✓

Index right. A.

76.0

85.7 ✓

161.7

246.1 103.6 ✓

349.7 189.3 ✓ +0.17 ✓

170.7 ✓

63.9 108.1 ✓

172.0 +0.17 ✓

258.0 81.0 ✓

339.0 189.1 ✓

170.9 ✓ +0.17 ✓

8.7-15

8 5. ✓

8 4 2. ✓

+5 0 23. ✓

13 4 25. ✓

8993.5447 ✓

P. A. 196.9°

~~196.9°~~

mean −0.05 ✓

8.41 ✓

mag. 8.36 ✓

L. P. P.

Nov. 17. 1910.

T Orionis.

~~5~~	~~10~~	~~−0.5~~
5	25	−0.5
0	42	
4	43	
7	17	

For me ests. see fol. pages.

Nov. 17. 1910.

Index left and below B.

8.54.0

208.0 13.8 ✓
221.8
27.2 14.4 ✓
41.6 28.2 ✓ −4.54 ✓

207.1 15.4 ✓ −4.50 ✓
222.5
27.2 13.9 ✓
41.1 29.3 ✓ 4.45 ✓

Index right and above, A.

117.2 14.3 ✓
131.5
297.2 14.3 ✓
311.5 28.6 ✓ −4.51 ✓

116.3 15.7 ✓ −4.46 ✓
132.0
297.6 14.2 ✓
311.8 29.9 ✓ −4.41 ✓

mean −4.48 ✓

9.2.15

116 15. ✓
8 58 8. ✓
+5 0 23. ✓
13 58 31. ✓
2993.5823 ✓

Nov. 17. 1910.

~~117.0~~ Index right + above. A.

117.0 14.1 ✓
9.5.0 131.1
297.0 15.0 ✓
312.0 29.1 ✓ −4.47 ✓

117.0 15.4 ✓ −4.46 ✓
132.4
297.9 14.1 ✓
312.0 29.5 ✓ −4.44 ✓

Index left + below. B.

27.9 13.7 ✓
41.6
207.6 14.2 ✓
221.8 27.9 ✓ −4.56 ✓

27.4 14.8 ✓ −4.52 ✓
9-12-5 42.2
17 5. ✓ 207.6 14.0 ✓
9 8 32. ✓ 221.6 28.8 ✓ −4.49 ✓
+5 0 23. ✓ mean −4.49 ✓
14 8 55. ✓ Gen. " −4.48 ✓
2993.5 2995+ ✓ W's watch used for times,
Watch 23 secs. slow.

L. P. P.

Nov. 18, 1910. (Friday).

7 0 Pretty Cloudy.

7 20 Still more cloudy.

Nov. 19. 1910 (Saturday)

R T Persei.

27
~~3~~ 33 +47.3
23 45

−3 48
+8 12

---

24 5

−3 28
+8 32

For measts. see fol. pages.

Nov. 19. 1910.

Index above A. C. S. des. I

8-3-35

82.3
153.1 70.8
274.1 48.0
322.1 118.8 +1.22

+1.10
~~+1.06~~

90.1 49.3
139.4
253.5 81.2
334.7 130.5 +0.97

Index below. B.

353.0 67.6
60.6
181.6 54.1
235.7 121.7 +1.16

0.0 51.4
51.4
171.0 72.9
243.9 124.3 +1.10

+1.13

+1.12

8.9.45

13 20.

8 6 40.

+5

13 6 40.

8995.5463

Nov. 19. 1910.

Index Below B. II

8.12.35

351.8 68.7 ✓
60.5
186.0 44.5 ✓
230.5 113.2 ✓ +1.34 ✓

5.0 43.5 ✓ +1.35 ✓
48.5
173.0 69.0 ✓
242.0 112.5 ✓ +1.36 ✓

Index above. A.

264.2 72.1 ✓
336.3
94.2 46.5 ✓
140.7 118.6 ✓ +1.22 ✓

276.3 46.9 ✓ +1.28 ✓
323.2
83.6 67.1 ✓
150.7 114.0 ✓ +1.33 ✓

mean +1.32 ✓

8.20.30

33 5. ✓
8 16 32. ✓
+5
13 16 32. ✓
8995.5532 ✓

Nov. 19. 1910.

Index above A. III

263.0 74.0 ✓

8.23.0 337.0

92.6 48.9 ✓ +1.13 ✓

141.5 122.9 ✓ ~~+1.35~~

+1.16 ✓

~~+1.26~~

270.7 50.7 ✓

321.4

83.0 69.7 ✓

152.7 120.4 ✓ +1.18 ✓

Index below. B.

171.2 67.2 ✓

238.4

5.0

50.5 45.5 ✓

112.7 ✓ +1.36 ✓

184.0

42.5 ✓ +1.36 ✓

226.5

349.0

69.4 ✓

58.4 111.9 ✓ +1.37 ✓

mean +1.26 ✓

~~+1.31~~

8.29.15

5 2 15. ✓

8 26 8. ✓

+5

13 26 8. ✓

8995.5598 ✓

Nov. 19. 1910.

Index Below B.

IV

8·32·5 ↓

171·0 65.4
236·4
6·0 40.4
46·4 105.8 +1.52

~~189·4~~
~~228·8~~ +1.52

175·4 62.4
237·8
5·3 43.7
49·0 106.1 +1.51

Index above. A.

94·5 43.9
138·4
265·0 61.6
326·6 105.5 +1.52

85·5 64.9 +1.50
150·4
275·2 42.3
317·5 107.2 +1.48

mean +1.51

8:40·50
72 55
8 36 28.
+5
13 36 28.
~~+8~~
~~36 28.~~
8 9 95.5670

Nov. 19. 1910.
Index above A.

97.5 44,6 ✓ V
8.43.0 142.1
264.0 60.9 ✓
324.9 105.5 ✓ +1.52 ✓

85.9 68,1 ✓ +1.53 ✓
154.0
277.1 36.9 ✓
314.0 105.0 ✓ +1.54 ✓

Index below. B.

7.0 ✓
45.3 38.3
180.8 54,6 ✓
235.4 92.9 ✓ +1.84 ✓

356.0
8.49.40 52.6 56.6 ✓ +1.80 ✓
92 40. ✓ 188.2
8 46 20. ✓ 227.5 39.3 ✓
+5 95.9 ✓ +1.76 ✓
13 46 20. ✓ P. A. 180°.5 mean +1.66 ✓
8995.5738 ✓

Obs. rather difficult and progressively so, on account of bright moonlight.

L. P. P.

Nov. 19. 1910.

δ Orionis

5 25 −0.5

1 25 Index left and below A

−4 0

9.21.10 +8 0

208.4

221.6 13.2 ✓

27.2 14.6 ✓

41.8 27.8 ✓ −4.57 ✓

207.3

222.9 15.6 ✓ −4.46 ✓

27.1 15.0 ✓

42.1 30.6 ✓ −4.36 ✓

Index right + above. A.

118.0

131.4 13.4 ✓

~~279~~

297.1 15.6 ✓

312.7 29.0 ✓ −4.48 ✓

116.4

131.6 15.2 ✓ −444 ✓

296.8

311.8 15.0 ✓

30.2 ✓ −4.39

Mean −4.45 ✓

9.27.10

48 20. ✓

9 24 10. ✓

+5

14 24 10 ✓

8995.6001 ✓

Nov. 19. 1910.

Index Right and Above A.

9.29.45 117.6
131.6 14.0
297.7
310.4 12.7
26.7 -4.66 ✓

116.2
131.7 15.5 -4.53 ✓
297.2
311.8 14.6
30.1 -4.40 ✓

Index left + below B.

27.5
41.7 14.2
208.0 13.9
221.9 28.1 -4.55 ✓

27.4 -4.52 ✓
42.4 15.0
9.34.20
64 5. ✓
207.9
221.~~8~~9 14.0
29.0 -4.48 ✓

9 32 2, ✓
+5
14 32 2 ✓
mean -4.52 ✓
Gen. av -4.48 ✓

5995.6056 ✓ Seeing rather poor, on δ Orionis.

L. P. P.

Nov. 25. 1910. (Friday).

Double Star (new list) = Bur. Cat. 12613.

23 47 +11.3
24 0
+0 13

Cloudy in this region. (Abandoned).

Double Star (new list) = Bur. Cat. 10216.

20 21 −2.5
24 8
+3 47

Cloudy everywhere. Abandoned.

Nov. 26. 1910. (Saturday) c

R Z Draconis.

18 22 +58.7
23 52
+5 30 Index left

283.5
7.41.20 308.0
108.2
124.0

288.8
305.0
105.5
128.7

Abandoned.

Nov. 26. 1910.

δ Orionis.

I

5 25 = 0.5
0 47
-4 38
+7 22 Index Right and Above A

8.11.10

276.0 13.1
289.1
96.3 13.4
109.7 26.5 -4.67

276.0 14.1 -4.60
290.1
95.9 14.1
110.0 28.2 -4.54

Index left & below. B.

186.5 13.5
200.0
6.0 15.1
21.1 28.6 -4.51

186.8 15.1 -4.48
201.9
7.0 14.1
21.1 29.2 -4.46

mean 4.54

8.17.50

29. 0
8 14 30
+5 -19.
13 14 11.

9002.5515 -

Nov. 26. 1910.

Index left and Below B.

II

187.8 13,9 ✓

8.20.10 201.7

7.6 14,1 ✓

21.7 28,0 ✓ −4,55 ✓

187.9 14,9 ✓ −4,46 ✓

202.8 15,5 ✓

7.0 30,4 ✓ −4,37 ✓

22.~~4~~5

Index right + above A.

99.9 13,7 ✓

112.8

278.2 15,3 ✓

293.5 29,0 ✓ −4,48 ✓

99.3 14,1 ✓ −4,53 ✓

8.26.40 113.4

46 50. 279.3 13,6 ✓

2 23 25. 292.9 27,7 ✓ −4,58 ✓

+5 −19.

13 23 6.

Mean −4,60 ✓

9002,5577 ✓

Nov. 26. 1910.

Index Right and above A.

99.4 14,5
8·32·35 113.8 III
279.3 14,2
293.5 28,6 -4.51

99.3 15.1 -4,46
114.4
279.4 14.8
294.2 29.9 -4.41

Index left & below. B.

9.7 14.7
24.4
189.6 15.2
204.8 29.9 -4,41

9.6 -4.40
8·39·10 ~~25.0~~ 24.9 15,3
190.4
205.3 14.9
30,2 -4.39

mean -4.43

71 456
d 35 52.
+5 · -19.
13 35 33.
9002,5664

Nov. 26. 1910.

Index left and below B.

11.1 14.0✓

8.42.15 25.1 IV

191.6 14.3✓

205.9 28.3✓ −4.53✓

10.8 15.0✓ −4.44✓

25.8

190.4 15.6✓

206.0 30.6✓ −4.36✓

Index right & above A.

~~281.9~~ 282.1 16.0✓

~~101.5~~ 298.1

~~116.8~~ 102.9 14.2✓

117.1 30.2✓ −4.39✓

282.8 14.6✓

8.51.25 297.4 −4.46✓

9 3 40✓ 103.2 13.8✓

& 46 50✓ 117.0 28.4✓ −4.52✓

+5 −19.✓

13 46 31.✓ mean −4.45✓

9002.5 7 40✓

Nov. 26. 1910.

Index Right + Above A.

282.6 14.9

8.56.5 297.5 V

103.4 15.4

118.8 30.3 −4.38

283.4 15.0 −4.41

298.4

104.1 14.5

118.6 29.5 −4.44

Index ~~left~~ left + below. B.

193.5 15.0

208.5

14.3 14.4

28.7 29.4 −4.45

194.5 14.2 −4.50

9.3.15 208.7

119 20. 14.2 13.9

8. 59 40. 28.1 28.1 −4.55

+5 . −19.

mean −4.46

13 59 21. The watch used for times,

9002.5829 Watch 19 secs. fast.

Seeing somewhat blurry, especially in latter part of series.

L. P. P.

For Nov. 30, 1910, see Accident Book.

Obs. on Nov. 30. 1910 (in Accident Book) ledgered and posted properly.

L. P. P.

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