KG
11365
606

KG 11365.606

KG 11365.606

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1911phae.proj..607O

June 29. 1911. (Thursday)

Double Star =
Bu. Cat. 7044. Ho. ho. rec. Gellach rec.
P.A. 210° Dist. 90'' Mags. 6.5, 7.2

(Phot. R.
one for seven.

14 49 0.0
14 33
-0 16
+11 44

14 49
14 53
+0 4

June 29. 1911.

Index night & above

180.9 < N. fol. dis.
8 10 30 258.0 77.1
~~360~~.0 78.8
74.8 155.9 0.54

177.0 81.8 0.43
258.8
357.0 81.2
78.2 163.0 0.32

92.5
167.3 74.8
275.0 68.0
343.0 142.8 0.72

88.2 74.8 0.68
8 16 0 163.0
271.4 72.6 0.63
344.0 147.4

0.56

June 29. 1911.

Double Star =
Bee. Cat. 12038 Phot. R. (compr. rams)
Sp. obs. vrc. Cullock rec.
P. A. 281°, Dist. 69″ mag. 6.5, 7.2

22 49 +67.4
~~15 49~~
~~-7 0~~
~~+5 0~~

22 49
15 18
-7 31
+14 29

June 29. 1911.

Under left & above

0.5 ⌊ fol & better lies

8 32 20	76.0	75.5 ✓	

8 32 20	0.5		
	76.0	75.5 ✓	
	179.9	78.3 ✓	
	258.2	153.8 ✓	0.50 ✓
	358.0	80.0 ✓	0.52 ✓
	78.0		
	182.5	72.5 ✓	
	254.9	152.5 ✓	0.5~~2~~3 ✓
	269.0	78.2 ✓	
	347.2		
	91.0	74.9 ✓	
	165.9	153.1 ✓	0.51 ✓
	270.1	76.7 ✓	0.52 ✓
— 8 38 0	346.8		
	90.9	75.9 ✓	
	166.8	152.6 ✓	0.52 ✓

0.52 ✓

June 29. 1911

Double Star =

Bu. Cat. 10577 Phot. R. (one pr. sec.)

W. obs. inc. Callisch sec.

P.A. 262° Dist. 11.5" mags. 6.5, 7.2

20	47	+58.4
15	33	
−5	14	
+6	46	

June 29. 1911.

Index right & below

276.1 < Pol Obs

8 47 30 341.0 64.9

101.0 58.8

159.8 123.7 1.11

278.0 62.3 1.06

340.3

97.0 66.9

163.9 129.2 1.00

183.6 71.3

254.9 54.1

9.0 125.4 1.08

63.1

191.2 66.9 0.90

8 53 15 258.1

0.2 75.4

75.6 142.3 0.73

—

0.98

W's watch used for times
Watch 13 secs. fast.

L. P. P.

June 30. 1911. (Friday).

Double Star =
Bur. Cat. 12038; 1st obs. Mc. Culloch rec. —
P. A. 280; Dist. 69.'' mags. 6.5, 7.2 (Phot. R.
[illegible]

22 49 +67.4
14 35
−8 14
+3 46

June 30. 1911.

Index left + above

181.0 fol. dis

8 9 20 256.9

359.0 75.9

76.6 77.6

153.5 0.51

179.8 79.2 0.48

259.0

1.0 77.0

78.0 156.2 0.45

~~91.0~~ ~~15~~

92.4

164.0 71.6

269.9 76.3

147.9 0.62

~~346.2~~

~~91.0~~

~~166.1~~

0.62

271.5 73.5

8 17 40 345.0

91.0 74.5

165.5 148.0 0.61

0.55

June 30, 1911.

Double Star =
Bu. Cat. 1269/2
P. A. 353°. Dist. 100.″ Mag. 6.7, 7.3

Phot. R.
1 pr visu, [illegible]

23	56	+69.8
15	10	
−8	46	
+3	14	

June 30, 1911.
right & above

273.0 < So. fol. dës.
8 26 10 344.0 71.0
90.2 76.8
167.0 147.8 0.62

273.5 73.0 0.72
346.5
99.6 65.4
165.0 138.4 0.81

183.0 73.0
256.0
2.5 74.5
77.0 147.5 0.62

179.4 78.6 0.62
8 32 30 258.0
3.0 69.0
72.0 147.6 0.62

0.67

June 30. 1911.

Double Star =
Berr. Cat. 11862. Phot. R. (1 position same.)
P. A. 137°. Dist. 42", mag. 7.2, 7.5

22 33 +72.2
15 25

-7 8
+14 52

June 30. 1911.

Nucleus left & below

97.0 < No. prec. & bitr. dis,

8 39 40 160.4 63.4 ✓

272.0

346.0 74.0 ✓

137.4 ✓ 0.83

87.8 78.2 ✓

166.0 0.72

278.5 69.9 ✓

348.4 148.1 ✓ 0.61

10.1 57.7 ✓

67.8

179.8 80.8 ✓

260.6 138.5 0.80

358.3 79.9 ✓ 0.80

8 44 50 78.2 77.7 ✓

189.4 59.5

248.9 139.4 ✓ 0.79

0.76

June 30. 1911.

B+C. 1182.			B. 394.		
9	46^5	38.0	9.	46	0.0
	46	37.8		47	0.0
	47	37.7		48	0.0

Resp. Jup. I. Phot. R. W. Sta. McCulloch rec. Compared with mean of two sets on prec. side = Sat. III.

Limit of Visibility.

10	6	52	291.5	23.7	
	7	22	315.2	26.4	
	7	40	290.0	25.0	+3.3
	7	56	316.4		

~~6~~ 15 7 28
+25.0
15 7. 53.0

2

June 30. 1911.

15	15	4.	10	14	39	Seen		
	15	18.		14	53	104.9	39.1	+2.2
	15	32.		15	7	144.0	45.1	+1.9
	15	43.		15	18	98.9	49.1	+1.7
	15	54.		15	29	148.0	52.0	+1.6
	16	3.		15	38	96.0	52.3	+1.5
	16	14		15	49	148.3	60.1	+1.2
	16	29.		16	4	88.2	64.9	+1.0
	16	42.		16	17	153.1	66.1	+0.9
	17	1.		16	36	87.0	69.2	+0.8
	17	14.		16	49	156.2	69.5	+0.8
	17	23		16	58	86.7	81.3	+0.3
	17	36		17	11	168.0	93.1	−0.1
	17	52.		17	27	74.9	96.1	−0.2
	18	6.		17	41	171.0		
15	18	16.		17	52	77.2	96.8	
		+25.		18	2	174.0	84.0	1
15	18	41.		18	24	81.0	90.4	0.0
				18	46	165.0		
				18	57	81.2		
15	19	11.					83.2	
		+25.		19	5	164.4	85.8	
15	19	36.		19	11	80.9	84.5 2	+0.2
				19	30	166.7		
				19	46	78.2	90.8	
15	20	8.		20	0	169.0	88.9	3
		+25.		20	17	77.1	89.8	0.0
15	20	33.		20	27	166.0		
15	20	53		20	37	78.2	88.8	
		+25						4
15	21	18		20	47	167.0		

June 30. 1911.

	20	59	79.7	87.2 4
	21	9	166.9	88.0 +0.1
15 21 58	21	23	79.0	90.1
+25	21	34	169.2	86.0
15 22 23	21	47	169.1 { 169.0	88.0 +0.1
	21	56	169.2	
	2			
	22	28	77.0	
	22	38	163.0	
15 23 ~~22~~ 14.	22	56	81.2	
+25.	23	8	169.1	87.9
15 23 39.	23	19	78.0	93.0 6 90.4 0.0
	23	32	171.0	
15 24 0	23	45	77.0	87.8
+26	23	54	164.8	88.4 7
15 24 26.	24	5	78.8	88.1 +0.1
	24	17	167.2	
15 27 24	27	2	77.1	93.7
+26.	27	14	170.8	90.7(8)
15 27 50.	27	27	78.1	92.2 −0.1
	27	53	168.8	

WS watch used for timing
" 13 secs fast

Seeing pretty good. Sky clear.

June 30. 1911.

B+C. 1182.

10	34	34.0
	35	33.7

B. 394.

10	35	0.0
	36	0.0

L. P. P.

July 1. 1911. (Saturday).

Double Star =
Bu. Cat. 12038. W. obs. vis. Cellosh vis.
Phot. R. (1 pr. removed).
P. A. 280°. Dist. 69". mags. 6.5, 7.2

22 49 +67.4
15 4
-7 45
+14 15

July 1, 1911

Index right & before

271.0 fol. bis.

8 14 50 346.7 75.7

92.3 74.3

166.8 150.0 0.54

271.2 72.6 0.54

343.8

88.9 77.3

166.2 149.9 0.54

180.6 77.8

258.4

0.5 77.5

78.0 155.3 0.47

~~178.7~~

~~8 22 18~~ ~~256.9~~ 0.49

0.9 75.4

8 23 30 76.3

179.5 78.1

257.6 153.5 0.51

0.54

July 1. 1911

Double Star =
Bur. Cat. 12691. W. br. vic. Cellock rec.
P.A. 353° Dist. 106." mag. 6.7, 7.3

23 56 +69.0
15 22
—8 34
+3 26

July 1, 1911

Index right & strong.

269.0 ∠ So. fol. dis

8 30 45 346.7 77.7✓

94.0

163.4 69.4✓

147.1✓ 0.63✓

274.0

346.3 72.3✓ 0.63✓

91.3 74.7✓

166.0 147.0✓ 0.63✓

182.1 74.3✓

256.4

2.0 72.0✓

74.0 146.3✓ 0.65✓

185.0 70.7✓ 0.66✓

8 36 20 255.7

0.3 73.8✓

74.1 144.5✓ 0.68✓

0.64✓

July 1, 1911.

Double Star =
Br. Cat. 11862, H. obs. uu. Cilloch rec.,
P.A. 137°; Dist. 42"; mags. 7.2, 7.5

22 33 +72.2
15 34

-6 59
+5 1

July 1, 1911

Index left & below

280. δ∠ No. proc. bts dis

8 43 10 337. 0 57.0 ✓
89. 0 74.2 ✓
163. 2 131.2 ✓ 0.95 ✓

271. 6 72.8 ✓ 0.94 ✓
344. 4
99. 3 60.1 ✓
159. 4 132.9 ✓ 0.92 ✓

189. 7 60.7 ✓
250. 4
358. 4 80.6 ✓
79. 0 141.3 ✓ 0.75 ✓

178. 3 79.7 ✓ 0.70 ✓
258. 0 79.7
5. 0 66.1 ✓
71. 1 145.8 ✓ 0.66 ✓

0.82 ✓

8 4 9 5

12 15
8 46 8.
+5 −14.
13 45 54.

July 1, 1911

Double Star =
Bu. Cat. 9116. Lt. bo. ve. Collock sec.
P.A. 288° Dist. 115" Mags. 6.7, 7.5

```
 19   8   +16.7
 15  54
 -3  14
 +8  46
```

July 1. 1911.

right & below
fol. Dis

98.5 ∠
9 5 40 161.0 62.5
287.0 47.2 1.42
334.2 109.7 ~~1.20~~

104.0 144
153.0 49.0 ~~1.32~~
279.7 59.8
339.5 108.8 1.45

3.5
74.9 71.4
192.2 52.0
244.2 123.4 1.12

1.58

13.7 51.4
9 11 30 65.1 66.7
17 10 185.4 118.1 1.23
9 4 35. 252.1 1.31
~~1.25~~

A's watch used for times
" 14 secs. fast

L. P. P.

July 7. 1911. (Friday).

Double Star =
Bac. Cat. ~~11862,~~ ~~12691~~ 12038

12038 = P.A. 251° Dist. 69" mag. 6.5, 7.2

~~22 33 +72.2~~
~~15 13~~
~~−7 20~~
~~+4 40~~

~~23 56 +69.0~~
~~15 13~~
~~−8 43~~
~~+3 17~~

22 49 +67.4
15 13
−7 36
+4 24

4

July 7. 1911.

Index Left & above

0.0< Pol Dis

8 3 55 77.5 ✓
181.0 77.5 ✓
256.0 75.0 ✓
152.5 ✓ 0.53 ✓

1.0 75.9 ✓ 0.52 ✓
76.9 ✓
180.0 78.2 ✓
154.1 ✓ 0.50 ✓
258.2

269.5
348.4 78.9 ✓
90.0 76.0 ✓
166.0 154.9 ✓ 0.48 ✓

270.4 0.52 ✓
8 9 0 344.2 73.8 ✓
90.2 76.9 ✓
167.1 150.7 ✓ 0.56 ✓

0.52 ✓

July 7. 1911.

Double Star =
Bru. Cat. 11862
P.A. 137° Dist. 42", mags. 7.5, 7.2

22	33	+72.2
15	33	
~7	0	
+7 5	0	

July 7. 1911.

Index right & above

179.2 ∠ 70, prec. betw. dis.

8 19 30 255.6 76.5

6.5 61.5

68.0 137.9 0.85

188.0 62.5 0.75

250.5

358.3 83.7

82.0 146.2 0.65

90.8 75.2

166.0

279.2 56.3

335.5 131.5 0.95

100.0 60.0 0.96

8 25 45 160.0

274.0 71.0

345.0 131.0 0.96

0.85

July 7. 1911.

Double Star =
Bu. Cat. 9116
P.A. 288° Dist. 1.21." mags. 6.7, 7.5

19 8   +16.7
15 48
−3 20
+8 40

July 7. 1911

Ruler left & above

7.8 Sa. fol. dis

8 38 20 70.6 62.8 ✓

188.5 60.5 ✓

249.0 123.3 ✓ 1.12 ✓

8.0 62.5 ✓ 1.11 ✓

70.5

187.1 61.9 ✓

249.0 124.4 ✓ 1.10 ✓

279.0 60.0 ✓

339.0

100.1 58.5 ✓

158.6 118.5 ✓ 1.23 ✓

278.~~3~~1 1.22 ✓

8 43 10 338.2 59.9 ✓

99.7

159.0 59.3 ✓

119.2 ✓ 1.21 ✓

1.16 ✓

July 7. 1911.

Double Star =
Burn. Cat. 9771.
P. A. 137° Dist. 93." mags. 7½, 6.3

19 54 +27.0
16 3

−3 51
+8 9

July 7 - 1911.
night

357.0 No. proc. dis.
8 49 50 83.0 86.0 ✓
179.5 73.0 ✓
252.5 159.0 ✓ 0.40 ✓

1.0 77.0 ✓ 0.34 ✓
78.0 89.0 ✓
175.0
264.0 166.0 ✓ 0.27 ✓

266.0 82.5 ✓
348.5
92.0 75.5 ✓
167.5 158.0 ✓ 0.42 ✓

0.44 ✓
273.0 72.1 ✓
8 54 45 ~~345.1~~ 84.4 ✓
86.1 156.5 ✓ 0.45 ✓
170.5 ~~169.6~~

0.39 ✓

July 7. 1911.

Double Star =
Bur. Cat. 8894
P. A. 116° Dist. 9.7" mags. 7.0, 7.1

18 50 +1.8
16 18
-2 32
+9 28

July 7. 1911
left + above
83.0 no free dis

9 4 40 174.0 91.0 ✓
266.8 " ✓
354.2 88.2
179.2 ✓ − 0.02 ✓

83.9 88.1 ✓ − 0.04 ✓
172.0 " ✓
266.2 88.6
354.8 176.7 ✓ − 0.06 ✓

352.2 92.0 ✓
84.2 " ✓
173.2 92.8
266.0 184.8 ✓ +0.09 ✓
175.2

353.0
9 9 40 83.5 90.5 ✓ +0.10 ✓
172.0 96.0 ✓
268.0 186.5 ✓ +0.12 ✓
173.5 ✓

+0.03 ✓

H.s Watch used for time
" 18 secs fast.

L. A. P.

July 8, 1911. (Saturday).

Double Star =
Bu. Cat. 9116.
P.A. 288°, Dist. 121." Mags. 6.7, 7.5

19 8   +16.7
15 8
—————
− 4 0
+ 8 0

July 8, 1911

Index right & below

281.1 ∠ So. fol dis.

8 44 0 337.0 55.9 ✓

160.0

158.1 58.1 ✓

114.0 ✓ 1.33 ✓

279.0 59.9 ✓ 1.24 ✓

338.9

98.0 62.0 ✓

160.0 121.9 ✓ 1.15 ✓

186.0 64.5 ✓

250.5

8.2 61.3 ✓

69.5 125.8 ✓ 1.07 ✓

190.0 57.1 ✓ 1.14 ✓

8 11 30 247.1

8.0 61.8 ✓

69.8 118.9 ✓ 1.22 ✓

1.19 ✓

July 8. 1911.

Double Star =
Bee. Cat. ~~10689~~ 9771.
P. A. 137° Dist. 93" mags. 7½, 6.3

~~20 58 +21.4~~
~~15 37~~
~~−5 21~~
~~+6 39~~

19 54 +27.0
15 38
−4 16
+7 44

July 8, 1911

Index left & below

270.9∠ no. prec dis

8 22 15 — 347.0

91.5 — 76.1 ✓

165.6 74.1 ✓

150.2 ✓ 0.57 ✓

273.0 0.54 ✓

344.5 — 71.5 ✓

87.8 81.2 ✓

169.0 152.7 ✓ 0.52 ✓

176.0 85.0 ✓

261.0 —

358.5 80.1 ✓

78.6 165.1 ✓ 0.28 ✓

8 28 45 180.0 75.1 ✓ 0.31 ✓

255.1

356.0 87.0 ✓

83.0 162.1 ✓ 0.34 ✓

0.42 ✓

July ~~7~~ 8. 1911.

Double Star =
Bu. Cat. 8894
P.A. 116°, Dist. 97.″ mags. 7.0; 7.1

18 50 +1.8
16 2
−2 48
+9 12

July 8, 1911

Index-neglect & below

354, d< no. prec. dis

8 42 50 87.0 93.0

172.0 95.3

267.3 188.3 +0.16

171.7

349.9

87.0 97.1 +0.16

174.1 91.9

266.0 189.0 +0.17

171.0

267.2

351.9 84.7

267.0 ~~83.3~~ 86.4

353.4 ~~175.6~~ 171.1 −0.17

83.8 −0.16

8 49 35 173.1 89.3

263.0 89.0

352.0 178.3 −0.03

+0.03

July 8. 1911.

Double Star =
Bur. Cat. 10837
P.A. 47°, Dist. 101", mags, 6.7, 7.2

21 10 +33.9
16 18
-4 52
+7 8

July 8. 1911

Index left & above

95.0∠ to prec. dis

9 1 50 168.0 73.0✓
272.7 71.8✓
344.5 144.8✓ 0.68✓

90.3 74.9✓ 0.71✓
165.2
274.0 67.0✓
341.0 141.9✓ 0.74✓

0.5– 75.0✓
75.5–
181.4 79.6✓
261.0 154.6✓ 0.49✓

0.2 80.0✓ 0.53✓
9 7 40 80.2
184.0 70.1✓
254.1 150.1✓ 0.57✓
0.62–

Ws Watch used for times.
" 18 secs. fast.

L. P. P.

July 13. 1911. (Thursday).

Double Star =
Br. Cat. 11h39.
P.A. 186° Dist. 22 mags. 5.8 6.6

22 31 +39.1
15 37
-6 54
+5 6

July 13, 1911

Index left & below

274.0 ~~no. prec~~ northern dis.

8 7 20 342.6 68.6
91.2 71.0
162.2 139.6 0.78

273.5 72.0 0.76
345.5
93.4 69.2
162.6 141.2 0.75

184.5 69.3
253.8
3.0 71.0
74.0 140.3 0.77

182.5 72.0 0.74
8 12 10 254.5
3.8 71.1
74.9 143.1 0.71

0.75

July 13. 1911.

Double Star =
Br. Cat. 11772 (δ Cephei)
P. A. 192°. Dist. 41". mag. Var., 5.3

```
22   25   +57.9
16    2
---------
-6   23
+5   37
```

July 13, 1911

Index right & above

201.6 < N. (var.) dis.

8 24 0   234.6   33.0

22.1   33.6

55.7   66.6   2.62

201.0   34.2   2.62

235.2

22.0   32.4

54.4   66.6   2.62

113.1

145.1   32.0

290.9   34.9

325.8   66.9   2.61

111.0   35.6   2.58

8 29 0   146.6

292.0   33.3

325.3   68.9   2.54

8	26	30
+5		− 38
13	25	52

2.60

July 13. 1911.

RS Sagittarii.

18 9 -34.2
16 22

-1 47
+10 13

July 13. 1911

Index left & below

203.2 ← Var. dis. 29.8

8 53 30 233.0

18.8 39.7

58.5 69.5 −2.52

199.7 36.7 −2.63

236.4

26.6 26.4

53.0 63.1 −2.74

Index right & above.

116.0 27.4

143.4

287.6 43.4

331.0 70.8 −2.48

108.5 43.5 −2.48

8 59 30 150.0

13 0. 294.6 27.3

8 56 30. 321.9 70.8 −2.48

+5 −38.

13 55 52 −2.56

9231.5805

July 13. 1911.

Same again
Index right + above.

113.6 var. dis.
9 1 30 142.5 28.9
288.4 40.4
328.8 69.3 -2.53

109.8 40.2 -2.52
150.0
294.0 30.0
324.0 70.2 -2.50
Index left + below.
17.8 36.6
54.4
200.2 38.8
239.0 75.4 -2.33

19.8 35.7 -2.57
9 8 15 55.5
9 35. 205.8 25.7
9 4 48. 231.5 61.4 -2.81
+5 — -38.
14 4 10 -2.54
9231.5862

H.S. Watch used for time
" 38. secs. fast

July 13. 1911.

At the time of beginning observations on preceding variable, the inner long shutter could not be properly raised sufficiently to clear object glass so that observer was forced at the time to make the observations with the lower shutters way down. Consequently, at beginnings of observations the object glass was about two thirds covered and at end of observations it was about one third covered. Observer was also somewhat troubled by clouds and faintness of image at equalization.

On account of the before mentioned circumstance the two groups (although they agree well together) are not necessarily considered of the first order.

L. P. P.

July 16. 1911. (Sunday)

B + C. 1182.			B. 394		
7	54	11.5	7	53	0.0
	55	11.5		54	0.0

Reap. Jup. I. Phot. R (1 prism) Tr. obs.
Mc. Culloch rec.
Compared with nearer of two sats on prec. side = Sat. III.

Limit of Visibility

	~~8~~	~~25~~	~~38~~	~~111.8~~	
		~~26~~	~~0~~	~~139.1~~	
	8	26	32	119.1	
13h 26m 56.		26	46	140.0	20.9
−1 4.		27	2	121.5	17.5
13 25 52.		27	22	139.0	19.2 +3.9

July 16. 1911.

$13^h\ 32^m$ 58.8	34	5	seen		
33 10.	34	17	118.0	26.0	+3.2
33 25.	34	32	144.0	33.0	+2.6
33 34.	34	41	111.0	41.0	+2.1
33 44.	34	51	152.0	44.4	+1.9
33 53.	35	0	107.6	46.3	+1.8
34 3.	35	10	153.9	47.9	+1.8
34 12	35	19	106.0	50.1	+1.7
34 20	35	27	156.1	54.1	+1.5
34 28	35	35	102.0	56.2	+1.4
34 38	35	45	158.2	58.1	+1.3
34 47	35	54	100.1	62.1	+1.1
34 57	36	4	162.2	65.4	+1.0
35 8.	36	15	96.8	65.7	+0.9
35 19.	36	26	162.5	67.2	+0.9
35 27.	36	34	95.3	69.7	+0.8
35 36.	36	43	165.0	73.4	+0.6
35 44	36	51	91.6	71.4	+0.7
35 53.	37	0	163.0	71.7	+0.7
36 2.	37	9	91.3	74.6	+0.6
36 10.	37	17	165.9		
	37	25	91.0	75.5	
37 39.	37	33	166.5	78.6	
−1 7.	37	44	96.1	77.0	+0.5
13 36 32.	37	54	168.7		
	38	8	89.0	79.5	
13 38 22.	38	17	168.5	81.7	
−1 7.	38	26	87.3	80.6	+0.4
13 37 15.					

July 16. 1911.

			38	34		169.2	2
			38	51	82.3	89.2	
13	39	4.	38	59	79.8	171.5	
	-1	7.	39	9	81.0 +0.3	89.1	3
13	37	57	39	18		168.9	
			39	28	78.8	88.0	
	39	52.	39	48	77.8	166.8	
	-1	7.	40	0	78.3 +0.4	88.8	4
13	38	45.	40	10		166.6	
			40	26	81.2	88.0	
	40	44.	40	40	81.3	169.2	
	-1	7.	40	48	81.2 +0.3	86.5	5
13	39	37.	41	4		167.8	
			41	22	81.5	88.4	
	41	40.	41	32	80.5	169.9	
	-1	7.	41	43	81.0 +0.3	88.5	6
13	40	33.	42	2		169.0	
			42	12	81.6	87.1	
	42	30.	42	20	78.8	168.7	
	-1	6.	42	31	80.2 +0.4	87.2	7
13	41	24.	42	56		166.0	
			45	10	77.0	90.0	
13	45	32.	45	18	78.8	167.0	
	-1	6.	45	40	77.9 +0.5	90.0	8
13	44	26.	45	59		168.8	

July 16, 1911.

B & C. 1182.			B. 394.		
ℒ	5 3	√.3	ℒ	√2	0.0
	√4	5.3		√3	0.0

Seeing pretty good.

L. P. P.

July 18. 1911. (Tuesday).

Double Star =
Ber. Cat. 10 A 37.
P.A. 47° Dist. 10.2" mags. 6.7, 7.2

21 10 +33.9
16 18
~~-5 1.0~~
~~+6 5.0~~
-4 5.4
+7 6

Abandoned.

July 18. 1911.

B. & C. 1162.		
~~8~~		
8	26	28.4
	27	28.5

B. 394.		
~~8~~	~~24~~	~~0.0~~
8	25	0.0
	26	0.0

Reap. Jup. II. Phot. R. (1 prism).
W. obs. T. Rec. Coll. ch. see.
Compared with nearer of 2 sats (before eclipse] on fol. side = Sat. I.

Limit of Vis.

	A 51	56	194.0	51.0	
$13^h\ 52^m\ 30.^s$	52	19	245.0	47.0	
$-1\ \ 27.$	52	31	197.0	49.0	+1.7
$13\ \ 51\ \ \ 3.^s$	53	12	244.0		

July 18. 1911.

14	2	35 ✓	9	4	1	Seen			
	2	52 ✓		4	18	190.0		52.0 ✓	+1.6 ✓
	3	9 ✓		4	35	242.0		52.9 ✓	+1.5 ✓
	3	22 ✓		4	48	189.1		60.8 ✓	+1.2 ✓
	3	34 ✓		5	0	249.9		63.9 ✓	+1.0 ✓
	3	49 ✓		5	15	186.0		69.4 ✓	+0.8 ✓
	4	1 ✓		5	27	255.4		68.1 ✓	+0.9 ✓
	4	11 ✓		5	37	187.3		70.7 ✓	+0.7 ✓
	4	23 ✓		5	49	258.0		76.8 ✓	+0.5 ✓
	4	34 ✓		6	0	181.2		78.5 ✓	+0.4 ✓
	4	46 ✓		6	12	259.7		83.5 ✓	+0.2 ✓
	4	57 ✓		6	23	176.2		81.6 ✓	+0.3 ✓
	5	14 ✓		6	40	257.8		82.5 ✓	+0.3 ✓
	5	28 ✓		6	54	175.3		84.7 ✓	+0.2 ✓
	5	37 ✓		7	3	260.0		83.8 ✓	+0.2 ✓
	5	47 ✓		7	13	176.2		85.1 ✓	+0.2 ✓
	5	58		7	24	261.3			
				7	33	175.5		86.3 ✓	
14	7	48. ✓		7	41	261.8	1	88.0 ✓	
	-1	26. ✓		7	54	174.0		87.2 ✓	+0.1 ✓
14	6	22. ✓		8	3	262.0			
				8	14	176.1		85.1 ✓	
14	8	29 ✓		8	23	261.2			
	-1	26. ✓		8	33	174.0	2	88.9 ✓	
14	7	3. ✓		8	45	262.9		87.0 ✓	+0.1 ✓
				8	57	174.0		86.8 ✓	
14	9	14. ✓		9	8	260.8	3	84.8	
	-1	26. ✓		9	20	175.2		85.8 ✓	+0.2 ✓
14	7	48. ✓							

July 18. 1911

	9	29	260.0	
	9	40	176.0	84.0
14 10 5.	9	55	260.0	4) 85.9
-1 26.	10	17	177.2	85.0 +0.2
14 8 39.	10	28	263.1	
	10	48	175.2	85.8
14 11 4.	11	0	261.0	5) 85.8
-1 26.	11	10	175.9	85.8 +0.2
14 9 38.	11	20	261.7	
	11	32	176.0	83.0
14 11 47.	11	44	259.0	6) 83.8
-1 26.	11	52	176.2	83.4 +0.3
14 10 21.	12	0	260.0	
	12	10	177.0	81.3
14 12 26.	12	21	258.3	7) 88.0
-1 26.	12	31	176.0	84.6 +0.2
14 11 0.	12	42	264.0	
	12	50	174.8	87.2
14 13 11.	13	2	262.0	8) 87.1
-1 26.	13	21	175.9	~~[illegible]~~ +0.1 −0.1
14 11 45.	13	31	263.0	87.2

Probably recorder misunderstood observer. Probably 175.9 and so assumed.

B + C. 1182			B. 394.		
9	30	25.0	9	29	0.0
	31	25.1		30	5.0

L. A. P.

July 19. 1911. (Wednesday).

Double Star =
Bu. Cat. 11772. = δ Cephei.

P. A. 192°; Dist. 41". mag. Var. 5,3

22	25	+57.9
15	45	
−6	40	
+5	20	

July 19. 1911

Index left & below

108.8 N. (Ver.) Dis.

7 48 20 148.2 39.4

288.6 40.4

329.0 79.8 2.20

107.5 40.5 -2.26

148.0

291.5 35.3

326.8 75.8 2.32

22.0 ~~19.4~~ 36.0

58.0 ~~57.6~~

201.2 35.6

236.8 71.6 -2.45

22.2 34.2 -2.48

7 56 20 56.4

104 40

200.0 36.1

236.1 70.3 -2.50

7 52 20

+5 -44

12 51 36

-2.37

July 19, 1911

Double Star =
Bur. Cat. 8894.
P.A. 116° Dist. 97.″ mags. 7.0, 7.1

18 50 +1.8
16 10
−2 40
+9 20

July 19, 1911

Index right & below

358.5∠ n. prec. dis.

8 18 30 83.2 84.7 ✓

172.4 94.7 ✓

267.1 179.4 ✓ −0.05 ✓

351.0

86.0 95.0 ✓ +0.04 ✓

172.5 90.4 ✓

262.9 185.4 ✓

174.6 ✓ +0.10 ✓

270.5

350.1 79.6 ✓

82.2 92.0 ✓

174.2 171.6 ✓ −0.16 ✓

264.0 −0.10 ✓

8 23 40 355.0 91.0 ✓

86.0 86.6 ✓

172.6 177.6 ✓ −0.05 ✓

−0.03 ✓

July 19. 1911.

Double Star =
Bu. Cat. 9771.
P.A. 137°. Dist. 93", mag. 7½, 6.3

19 r4 +27.0
16 30
—
−3 24
+A 36

July 19. 1911.

Index left & below

264.7 n. prec. dis

8 33 30 351.8 86.3

92.8 72.1

164.9 158.4 0.41

275.0 66.8 0.48

341.8

86.0 84.5

170.5 151.3 -0.55

173.5 91.5

265.0

4.8 70.7

75.5 162.2 0.34

186.0 66.0 -0.44

8 38 30 252.0

358.7 85.3

84.0 151.3 0.55

-0.46

July 19. 1911.

Double Star =
Bur. Cat. 10237
P. A. 47°, Dist. 101." mags. 6.7, 7.2

21 10 +33.9
16 40
-4 30
+7 30

July 19, 1911.
Wider right & below

3.0 So preceding.
8 52 15 77.0
176.8 74.0
263.0 86.2
160.2 0.38

356.4 0.42
83.2 86.8
185.0 69.8
254.8 156.6 0.45

274.0 71.4
345.4
84.6 85.6
170.2 157.0 0.48

269.6 81.6 0.49
8 57 20 351.2
93.0 70.2
163.2 151.8 0.54

0.46

July 19. 1911.

RS Sagittarii.

18 9 −34.2
17 10
−0 59
+11 1

July 19. 1911.

right & above

9 11 10 — 2~~0~~91.8 — Ver. dis.
327.5 — 35.7 ✓
115.8 — 26.6 ✓
142.4 — 62.3 ✓ — 2.77 ✓

294.6 — 28.9 ✓ — 2.66 ✓
323.5
108.2 — 39.4 ✓
147.6 — 68.3 ✓ — 2.56 ✓

left & below.

205.6 — 25.4 ✓
231.0
17.9 — 39.6 ✓
57.5 — 65.0 ✓ — 2.68 ✓

197.5 — 43.4 ✓ — 2.58 ✓
240.9
25.0 — 27.8 ✓
52.8 — 71.2 ✓ — 2.47 ✓

9 18 0
29 10. ✓
9 14 35. ✓
+5 -44.-
14 13 51.
9 23 7.5 9 30 ✓

-2.62 ✓
8.70
6.08 ✓

July 19. 1911.

Same again

Left + below.

204.0 ver. dis

9 19 50 234.2 30.2✓

20.4 36.9✓

59.3 69.1✓ −2.54✓

200.3 39.6✓ −2.60✓

239.9

25.5 ✓

51.8 26.3 / 65.9✓ −2.65✓

Right + above.

115.8 26.1✓

143.9

287.6 40.6✓

328.2 64.7✓ −2.55✓

187.9 41.6✓ −2.56✓

149.3

296.0 26.4✓

322.4 68.0✓ −2.57✓

9	25	10
	45	0.✓
9	22	30.✓
+5		−44.✓
14	22	46✓

870 ✓

−2.58 ✓

6 1 2

W's watch used for time 44 secs fast.

9237.59852 11

Gen. mean −2.60✓

L. P. P.

July 22, 1911. (Saturday),

Double Star =
Bur. Cat. 11-772 = δ Cephei.
P.A. 192°, Dist. 41" mags. 3.0, 5.3

22 25 +57.9
15 50

−6 35
+5 25

July 22, 1911

Indexnight & Olone
198.2 L n. (var.) dis.

7 46 0 237.4 39.2
18.1 40.5
58.6 79.7 2,20

2
199.6 37.1 2,30
236.7 35.0
20.4 72.1 2,44
55.4

111.1 37.7
148.8
289.0 38.8
327.8 76.5 2,30

109.0 40.0 2,28
7 50 20 149.0
290.3 37.6
327.9 77.6 2,27

2,30
2,29

7	96	20
7	48	10
+5		−56
12	47	14

July 22. 1911.

Double Star =
Bur. Cat. 9771
P.A. 137° Dist. 93," mags. 7½, 6.3

19   v−4   +27.0
16   v
−3   ~~4~~9
+δ   1/1

July 22, 1911.

Under left & below

87.0 ∠ N. prec. dis.

8 0 40 169.0 82.0

268.4 79.5

347.9 161.5 0.35

88.2 82.5 0.32

170.7

267.0 81.4

348.4 163.9 0.30

1.2

80.6 79.4

181.0 76.7

257.7 156.1 0.46

0.6 76.3 0.44

8 5 30 76.9

178.7 81.7

260.4 158.0 0.42

~~0.39~~ ,7

0.38

July 22. 1911.

Double Star =
= Bu. Cat. 10689.
P. A. 238°, Dist. 7.8", mags. 8.2, 7.0

20 58 +21.4
16 20
−4 38
+7 22

July 22. 1911.

Index

358.0 ∠ So. prec. dis,
8 17 20 83.5
174.0 85.5
261.6 87.6
173.1 −0.13

354.2 88.6 −0.13
82.8
178.0 84.6
262.6 173.2 −0.13

268.0 80.6
348.6
83.2 94.0
177.2 174.6 −0.10

262.0 94.0
8 22 20 356.0 −0.02
83.6 89.6
173.2 183.6
176.4 +0.07

−0.02

July 22. 1911.

Double Star:

Bu. Cat. 11439.

P.A. 146°; Dist. 22.'' mags. 6.0, 6.5 (AB)

22 31 +39.1

16 35

-5 56

+6 4

July 22. 1911.

Index right & above

4.7 ∠ N. btw dis

8 33 0 70.7 66.5

183.3 − 71.2

254.5 137.7 0.82

$3.\bar{5}$ 69.4 0.84

72.9

186.0 65.9

251.9 135.3 0.87

$273.\bar{5}$ 69.9

343.4

89.5 73.5

163.0 143.4 0.71

$271.\bar{5}$ 72.2 0.74

8 36 30 343.7

94.4 68.6

163.0 140.8 0.76

0.79

July 22. 1911.

R S Sagittarii,

```
 18   9    −34.2
 17   0
---------
 −1   9
+10  √1
```

July 22, 1911.

Index left & below

205.6 Var. dis.

8 52 20 234.0 28.4

18.4 38.6

57.0 67.0 −2.61

196.3 42.1 −2.55

238.4

25.2

53.5 28.3

70.4 −2.49

Index right & above.

114.0

143.5 29.5

289.7 37.3

327.6 66.8 −2.61

189.0 −2.60

148.9 39.9

295.0 27.5

322.5 67.4 −2.59

8 59 0
11 30.5
8 55 45.5
+5 −56.5
13 54 49
9240.57798

−2.58
8.70
6.12

July 22. 1911.

Same again

Index right & above

113.9 var. dis

9 120 143.7 29.8

289.4 39.8

329.2 69.6 -2.52

108.1 40.9 -2.50

149.0

294.3 29.5

323.8 70.4 -2.49

Index left & below.

24.3

53.5 29.2

197.5 44.0

241.5 73.2 -2.40

17.4 44.6 -2.40

9 7 40

62.0

204.6 28.4

233.0 73.0 -2.41

9 0.

9 4 30.

+5 -56.

14 3 34

9240.5858

-2.45

8.70

6.25

July 22. 1911.
Same again
Index left & below

21.8 31.5
9 15 30 53.3
199.8 38.0
237.8 69.5 -2.52

~~7 19~~ 20.5 40.1 -2.54
60.6
204.6 27.9
232.5 68.0 -2.57

Index right & above.
295.0
322.2 27.2
109.5 38.7
148.2 65.9 -2.65

288.3 39.6 -2.61
9 22 0
327.9
37 30.5
114.8 28.4
9 18 45. 143.2 68.0 -2.57
+5 -56.
14 17 49.
9240.5957

8.70
-2.58
6.12

W's watch used for times
" 56 secs. fast.

L. A. P.

July 25. 1911. (Tuesday)

Double Star =
Bu. Cat. 11772 = δ Cephei.
P.A. 192°. Dist. 41", mags. 3.0, 5.3

```
 22   25   +57.9
 16   20
----------
 -6    5
 +5   55.
```

July 25, 1911

Index right & above

200. 0 Δ. [var.] Dis

8 23 0 234. 8 34.8
19. 3 35.7
55. 0 70.5 -2.49

199. 0 37.0 -2.44
236. 0
19. 3 36.7
56. 0 73.7 -2.39

112. 0
151. 8 39.8
291. 6 42.4
334. 0 82.2 -2.13

109. 7 42.5 -2.06
8 27 30 152. 2
288. 4 44.6
50 30 333. 0 87.1 -1.99

8 25 15
+5 -5
13 25 10

-2.25

July 25, 1911

R S Sagittarii.

18 9 −34.2
17 6
−1 3
+10 57

July 25, 1911

Index left & below

8 41 30

23.9
53.3 29.4
199.2 40.5
239.7 69.9 −2.51

19.2
59.5 40.3 −2.53
204.2
232.7 28.5
68.8 −2.55

Index right + above.
293.4 27.0
320.4
105.0 43.8
148.8 70.8 −2.48

288.2 40.8 −2.49
329.0
114.6 29.4
144.0 70.2 −2.50

8 48 0

9 30.
8 44 45.^{s}
+5 −5.^{s}

13 44 40.^{s}
9243.5727^s

−2.51
8.70

6.19^s

July 25. 1911.

~~Same again~~

Index right + above.

Same again.

294.0 ∠ var. dis

8 50 20 323.2 29.2

107.6 41.5

149.1 70.7 2.48

286.1 -2.46

329.0 42.9

114.0 28.7

142.7 71.6 -2.45

Index left + below.

204.0 31.0

235.0

19.5 39.5

59.0 70.5 -2.49

199.5 39.2 -2.50

8 56 30 238.7

6 50.5 23.3 30.3

8 53 25.5 53.6 69.5 -2.52

+5 -5.

13 53 20.5

9243.5787

-2.48

Gen. mean -2.50

-2.48

8.70

6.22

K. P. P.

1911phae.proj..607O

July 25. 1911.

Double Star =
Bu. Cat. 11839

22 31 +39.1
18 16

-4 15
+7 45

abandoned

W's watch used for time
" 5 secs. fast

L. P. P.

July 26. 1911. (Wednesday)

Double Star =
Bur. Cat. 11772 = δ Cephei.
P. A. 192°, Dist. 41". mags. 3.0, v.3

22 25 +57.9
16 25

−6 0
+6 0

July 26, 1911.

Index left & below N. (Vern.) dir.

109.6
8 7 40 147.2 37.6
286.9 42.9
329.8 80.5 − 2.18

107.5 42.0 −2.18
149.5
288.9 38.5
327.4 80.5 − 2.18

18.1 40.0
58.1
197.5 41.5
239.0 81.5 − 2.15

18.8 38.9 −2.16
8 13 40 57.7
198.0 41.5
239.5 80.4 −2.18

20 80
8 10 40
+5 −4
13. 10 36

−2.17

July 26, 1911.

Ponce again

18.0 ∠ pos. dis

8 14 30 59.5 41.5

198.1 41.2

239.3 82.7 −2.12

16.5 41.5 −2.10

58.0

197.8 42.2

240.0 83.7 −2.09

289.6 41.7

331.3

108.0 42.0

150.0 83.7 −2.09

287.9 40.7 −2.16

8 18 20 328.6

110.3 38.3

148.0 79.0 −2.22

−2.13

82 50

8 16 25

+5 · −4

13 16 21

1911phae.proj..607O

July 26. 1911.

Double Star =
Bur. Cat. 10 A 37.
P.A. 47°; Dist. 10.2"; mags. 6.7, 7.2

21	10	+33.9
16	55	
−4	15	
+7	45	

July 26. 1911.

right & below

188.5 ∠ So. prec. bls dis

8 28 30 251.6 63.1

357.3 78.7

76.0 141.8 0.74

177.0 82.0 0.69

259.0

7.0 64.6

71.6 146.6 0.64

95.0 65.4

160.4

266.8 81.2

348.0 146.6 0.64

89.0 78.6 0.62

8 34 30 167.6

272.4

343.0 70.6

149.2 0.59

0.66

July 26. 1911.

RS Sagittarii.

18 9 −34.2
17 15
−10 54
+11 6

July 26. 1911.

Index right & above

108.6
8 50 0 148.8 40.2
293.6 29.1 / 69.3 −2.53
322.7

113.7 29.7 −2.56
143.4
290.6 37.4
328.0 67.1 −2.60

Index left & below,

18.4 41.6
60.0
204.6 28.9
233.5 70.5 −2.49

23.8 −2.51
8 58 15 53.1 29.3
✓ 8 15. ✓ 198.0 40.0
8 54 8. ✓ 238.0 69.3 −2.53
+5 −4. ✓
13 54 4. ✓
9244.5793 ✓

−2.54
8.70
6.16 ✓

July 26. 1911.

Seeing again
Index left & below
18.5 ∠ var. dis
9 0 15 58.8 40.3
203.5
234.5 31.0
71.3 −2.46

22.1 33.3 −2.42
55.4
199.2 40.6
239.8 73.9 −2.38
Index right & above.
287.0 41.5
328.5
112.5 33.2
144.7 74.7 −2.36

−2.46
294.2 29.6
9 6 40 323.8
6 55.5 109.8 39.1 −2.55
9 3 28.5 148.9 68.7
+5 −4.
14 3 24.5
9 2 44.5 8 5 7

8.70
−2.48
6.22

observations of R. S. Sagittarii a little difficult, sky at this low altitude somewhat hazy.

W's watch used for time
" four secs. fast.

L. P. P.

July. 31. 1911. (Monday).

B.&C. 11A2. B. 394.
7 44 11.5 7 44 .0.0
45 11.5 45 0.0

Reap. Jup. III W. obs. Enc. Cellsch. rec,
Phot. R.

Limit of visibility

13 22 36.8
−10.
13 22 26.

21.	50	80.1	74.4
22	12	154.3	66.6
22	32	93.2	70.6
23	52	160.0	+0.7

Above taken through moonlight & haze.

{Comp. with sat. on prec. side = Sat. II.

2

July 31. 1911.

13 ~~8~~

34	35. 8	34	45	Susp.		
34	49.	34	39	secchi		
35	11.	35	21	95.5	46.0	+1.9
35	50.	35	59	141.5	60.3	+1.2
36	49	36	58	81.2	78.0	+0.5
37	12.	37	21	159.2	72.9	+0.7
37	44	37	53	86.3	69.9	+0.8
38	1	38	10	156.2		
38	22	38	31	86.5		
38	38. 13 38 56.	38	47	161.5	75.0	
39	1.	39	10	84.0	81.0 78.0	+0.5
39	22.	39	31	165.0		
40	2.	40	11	82.0	82.2	
40	19. 13 40 26.	40	28	164.2		
40	33	40	42	82.1	88.9 85.6	+0.2
40	49.	40	58	171.0		

moved images & fields

41.	39.	41	48	74.0	97.9	
41	55 13-42-12	42	4	171.9		

moved image bk. again

42	29.	42	38	76.0	101.0	
42	45	42	54	177.0	99.4	−0.4
42	59	43	8	72.0		
			~~22~~		102.1	
43	24. 13 43 28.	43	33	174.1	102.1 102.1	−0.5
43	38	43	47	77.0		
43	50	43	59	179.1		

July 31. 1911.

13 44 4. 8		44	13	72.2	102.6		
44 19.	13 44 31	44	28	174.8	109.1		
44 42.		44	51	67.9	105.8		-0.6
45 0		45	9	177.0			
45 18		45	27	73.1	103.0		
45 30	13 45 40.	45	39	176.1			
45 49.		45	58	69.5	108.3		
46 3.		46	12	177.8	105.6		-0.6
46 25.		46	34	73.0			
46 45.	13 46 56.	46	54	177.8	104.8		
47 5		47	14	71.0	105.9		
47 27		47	36	176.9	105.4		-0.6
48 24		48	33	71.5			
48 38	13 48 46.	48	47	177.1	105.6		
48 54		49	3	65.0	115.1		
49 10		49	19	180.1	110.4	3	-0.8
49 23.		49	32	66.8			
49 37	13 49 44.	49	46	179.9	113.1		
49 48		49	57	68.9	110.2	4	
50 7.		50	16	179.1	111.6		-0.8
50 19		50	28	64.8			
50 31	13 50 38.	50	40	176.5	111.7		
50 44		50	53	67.2	112.0		
51 0		51	9	179.2	111.8		-0.8
51 10		51	19	66.5			
51 22	13 51 32.	51	31	179.0	112.5		
51 41		51	50	66.2	109.8		
					111.2		-0.8

July 31. 1911.

13 51 55✓ 8	52	4	176.0		6
52 59✓	53	8	73.8	105.9✓	
53 14✓ 13 53 20.	✓ 53	23	179.7	110.1✓ 108.0✓	
53 26✓	53	35	71.9		−0.7
53 39✓	53	48	182.0		
53 51✓	54	0	70.2	106.9✓	
54 2✓ 13 54 15.	54	11	177.1	108.0 107.8✓	−0.7
54 24✓	54	33	70.0		
54 42✓	54	51	178.0		

observations very difficult on account of low altitude, bright moonlight, haze, and light cloud

B + C. 1182.

9	1	8.5
	2	8.4

B. 394.

9	1	0.0
	2	0.0

July 31. 1911.

Double Star =
Ber. Cat. 11772. = δ Cephei.
P. A. 192°, Dist. 41", Mags. 3.0, 5.3,

22 25 +57.9
18 5

−4 20
+7 40

July 31. 1911.

left & below

287.3 ±[var] dis

9 194 327.5 40.2

107.9 42.4

150.3 82.6 −2.12

289.2 −2.14

329.2 40.0

108.0 40.7

148.7 80.7 −2.17

199.4 36.8

236.2

19.0 42.4

61.4 79.2 −2.22

~~196.3~~

~~9 24 20~~ ~~240.0~~ −2.17

198.9 43.5

9 25 25 242.4 39.2

9 44 29 19.1 82.7 −2.12

+5 −29 58.3

14 44

−2.16

July 31. 1911.

Double Star =
Boss Cat. 12038.
P. A. 281. Dist. 69.8 Mags. 6.5, 7.2

22 49 +67.4
18 20

−4 29
+7 31

July 31. 1911.

left & below

3.9 fol dis

9 33 45 69.6 65.7
172.2
264.7 92.5
158.2 0.42

359.2 81.6 0.52
80.8
184.0 65.5
249.5 147.1 0.63

277.0 65.3
342.3
84.7 85.8
170.0 151.1 0.55

265.3 88.9 0.50
9 37 55 354.2
94.1 67.9
162.0 156.8 0.44

W^s watch used for ~~times~~ 0.51
watch 29^s ~~fast~~.

L. A. A.

Aug. 1. 1911. (Tuesday).

R S Sagittarii: W. obs. McCulloch
Phot R. (1 prism)

18 9 −34.2
16 12
−1 √7
+10 3

16 √−2
−1 17
~~+10 √3~~
+10 43

Not found with certainty
Clouds, haze + fog.

J.

Sept. 6. 1911. (Wednesday).

Fourth Type Star +34° 4500
Phot. T. H. Obs. D. E. Brand rec.
Full Ap.

21 36 +34.8

~~18 29~~

~~-3 7~~

~~+8 53~~

---

21 36

Sept. 6. 1911.

Index right & below.

- 145.1 ← Var. dis.

7-39-40 - 188.8 43.7

- 331.7 29.2

- 0.9 72.9 -2,41

- 150.8 30.4 -2,34

- 181.2

- 320.5 47.4

- 7.9 77.8 -2,26

Index left & above

- 49.4 50.0

- 99.4 33.2

- 238.0 83.2 -2,10

- 271.2

-2,20

- 60.6 31.3

7-50-0 - 91.9 42.0

39 40. - 233.3 73.3 -2,40

7 44 50. - 275.3

+5 -54. -2,30

12 43 56.

9206, 53057 P. A. 69°.2 Var. B.

Hutt

Sept. 6. 1911.

Fourth Type Star +59° 2810.

Phot. T. W. obs. Brand sec.

24
~~2~~ 1 +58.3
19 14
−14 47
+7 13

Sept. 6. 1911

Index left + above.

200.0
8-23-40 312.2 ← Var. dis.
31.5 112.2
118.6 87.1
199.3
160.7 +0.37

211.0 90.9 +0.38
301.9 109.6
19.5 200.5
129.1 159.5 +0.39

Index right + below.

113.9 104.1
218.0
303.2 84.8
28.0 188.9
171.1 +0.17

124.4 82.6
8-31-30 207.0 +0.11
55 10 295.3 100.0
8 27 35 35.3 182.6
+5 -54 177.4 +0.05
13 26 41.

9286.5602 P. A. 256.5 Var. B.

+0.24

Sept. 6. 1911.

Brooks' Comet.

18 48   +56°.1
20 4
+1 24

At. $9^h 15^m$ Comp. Star (8.0 magn) prec. ☉ by $22^s.4$ and was. 5' north of it.

At $9^h 18^m$ ~~Comet~~ an 8.5 magn. star (star 2) fol. ☉ by 47 secs. and was 5'.5 south of it.

A 7.8 mag. star (star 3) fol. star 2 by 45.5 secs. and is 6' south of it. Star 3 has a faint companion 0'.5 north of it, slightly preceding.

An 8.1 magn star (star 4) fol. star 3, by $1^m 15^s$ and is 6' south of it.

An 8.8 magn. star (star 5) precedes star 3 by 3.5 secs. and is 11'.5 south of it.

Sept. 6. 1911.

Index left & below.

48.5 ← 59.5 — Comp. Star dir.

9-44-55 108.0

215.0 82.0

297.0 141.5 +0.74

~~222.4~~

Index right and above. +0.90

Assumed 310.0

9 52 0 ± 21.1 71.1

96 55 136.1 54.7

9 48 28 190.8 125.8 +1.07

55 54

14 47 34

+0.90

9286.6164 Comp. Star = star 1 = 8.0± magn.

K's watch used for times.
Watch 54 secs. fast.

L. P. P.

Sept. 11. 1911. (Monday).

Brooks' Comet.
W. obs. Brand rec.
Phot. T.
meast. of Nucleus of Comet

17 36 +57.2
16 4
+1 28

7 38 Comet fol. +57° 1791 (7.0) by 34s and is 4'.2 south of it

Comp. Star used in meast. of nucleus = +57° 1791 (7.0) - Phot. magn. 6.84 (Vol. 50.)

Sept. 11. 1911.
Index left + below.

Comp. Star dia.

2390 35.6
7-49-30 274.6
55.5 39.5
95.0 75.1 +2.3~~5~~ 4

+2.5~~[illegible]~~ 1

240.1 34.9
275.0
61.0 30.0
91.0 64.9 +2.62

(Assumed) 152.0 30.5
182.5
303.2 73.1 +(1.5)
16.3 103.6

7 59 0 ±
10 8 30.
7 54 15.
5 -46.
12 53 29.

6.84
45
mean +2.0~~8~~
mag. Nu. 8.8

7

9291.5371 The above measts. of nucleus made through foggy conditions and are approximate. Only. The first two sets above are better than the third. ~~It~~ The comet was almost invisible in the third set. and became invisible before a 4th set could be taken.

Stopped by thick fog + cloud.
W's watch used for times.
Watch 46 secs. fast.

L. A. P.

Sept. 12, 1911. (Tuesday)

B + C. 11f2. B. 394.

6 9 √2.0 6 9 0.0
10 √2.0 10 0.0

~~#~~ Dis. Jup. III. Phot. R (1 prism) W. obs. Brand rec.
Comp. with single sat. on fol. side = Sat. IV.

			6 –	31	50	163.5	122.7 ✓
11	32	19.		32	12	286.2	1) 120.0 ✓
		−57.		32	30	166.0	121.4 ✓ −1.3 ✓
11	31	22.		32	45	286.0	
				33	13	167.3	118.7 ✓
11	33	40.		33	31	286.0	2 120.2 ✓
		−57.		33	49	167.8	119.4 ✓ −1.2 ✓
11	32	43.		34	8	288.0	
				35	5	164.0	122.0 ✓
11	35	33.		35	27	286.0	3 126.0 ✓
		−57.		35	42	160.0	124.0 ✓ −1.4 ✓
11	34	36.		35	58	286.0	
				37	11	165.0	121.1 ✓
11	37	37.		37	27	286.1	4 120.9 ✓
		−57.		37	43	165.9	121.0 ✓ −1.2 ✓
11	36	40		38	8	286.8	
				38	45	166.3	122.2 ✓
11	39	10.		39	4	288.5	5 121.9 ✓
		−57.		39	19	166.0	122.0 ✓ −1.3 ✓
11	38	13		39	32	287.9	
11	40	50.		40	22	167.2	6 118.9 ✓
		−57		40	41	286.1	119.4 ✓
11	39	53					119.2 ✓ −1.2 ✓

Sept 12, 1911

	6 –	40	59	168.0			
		41	17	287.4			
		42	44	165.0		122.0 ✓	
11 43 9.		42	56	287.0	7	119.1 ✓	
−57.		43	12	167.0		120.6 ✓	−1.2 ✓
11 42 12.		43	45	286.1			
		45	40	168.5		116.7 ✓	
11 46 0.		45	48	285.2		120.0 ✓	
−57.		46	9	167.5	8	118.4 ✓	−1.1 ✓
11 45 3.		46	24	287.5			
		47	27	164.0		124.0 ✓	
11 47 59.		47	44	288.0	9	120.9 ✓	
−57.		48	13	167.1		122.4 ✓	−1.3 ✓
11 47 2.		48	31	288.0			
		48	53	167.0		120.0 ✓	
11 49 19.		49	9	287.0	10	121.6 ✓	
−57.		49	30	164.8		120.8 ✓	−1.2 ✓
11 48 22		49	45	286.4			
		50	39	167.0		117.1 ✓	
11 51 5.		50	57	284.1	11	118.7 ✓	
−57		51	14	168.8		117.9 ✓	−1.1 ✓
11 50 8.		51	31	287.5			
		51	48	169.0		116.0 ✓	
11 52 16		52	6	285.0	12	117.4 ✓	
−57		52	24	167.8		116.7 ✓	−1.1 ✓
11 51 19		52	46	285.2			
		53	11	168.9		113.1 ✓	
11 53 39		53	30	282.0	13	110.5 ✓	
−56		53	48	173.7		111.8 ✓	−0.8 ✓
11 52 43							

Sept. 12. 1911.

	6 —	54	7	284.2		
		54	22	170.0	115.2✓	
11 54 48.		54	40	285.2	14 112.6✓	
−56.		54	57	171.7	113.9✓	−0.9✓
11 53 52.		55	12	284.3		
		55	32	170.1	111.9✓	
11 55 56.		55	47	282.0	15 108.2	
−56.		56	3	174.0	110.0✓	−0.8✓
11 55 0.		56	20	282.2		
		56	35	173.8	107.0✓	
11 57 0.		56	52	280.8	106.2✓	
−56.		57	7	176.8	16 106.6✓	−0.6✓
11 56 4.		57	22	283.0		
		57	38	175.3	105.2✓	
11 58 3		57	55	280.5	103.5✓	
−56.		58	11	175.5	104.4✓	−0.6✓
11 57 7.		58	27	279.0		
		58	45	177.0	102.0✓	
11 59 14		59	5	279.0	103.9✓	
−56		59	24	176.0	103.0✓	−0.5✓
11 58 18		59	41	279.9		
	6	59	57	177.1		
	7	0	12	276.8	99.7✓	
12 0 20.		0	26	179.0	96.0✓	
−56		0	44	275.0	97.8✓	−0.3✓
		0	59	181.7		
12 1 20.		1	13	276.1	94.4✓	
−56		1	28	180.2	90.0✓	
12 0 24.		1	42	270.2	92.2	−0.1✓

Sept. 12. 1911.

		75	1	55	183.5	88.5	
12	2	16	2	10	272.0	88.0	
		-56	2	21	183.0	88.2	+0.1
12	1	20.	2	36	271.0		
			2	49	183.0	85.2	
12	3	12	3	3	268.2	85.6	
		-56	3	19	183.5	85.4	+0.2
12	2	16.	3	37	269.1		
			3	55	187.1	82.1	
12	4	20	4	11	269.2	79.3	
		-56	4	28	182.7	80.7	+0.4
12	3	24.	4	47	262.0		
12	4	6	5	2	192.8	69.2	+0.8
	4	13	5	9	262.0	70.8	+0.7
			~~5~~	~~26~~	~~/~~		
	4	44	5	40	191.2	67.8	+0.9
	5	3	5	59	259.0	64.0	+1.0
	5	21	6	17	195.0	61.0	+1.1
	5	36	6	32	256.0	53.5	+1.5
	5	54	6	50	202.5	53.0	+1.5
	6	12	7	8	255.5	53.5	+1.5
	6	29	7	25	202.0	53.6	+1.5
	6	45	7	41	255.6	50.3	+1.6
	7	3	7	59	205.3	43.9	+2.0
	7	22	8	18	249.2		
12	7	40	8	36	Not seen later		

Sept. 12. 1911.

Limit of Visibility.

12 9 27.
56.
12 8 31

7–	9	3	200.0		
	9	20	248.8	48.8 49.3	
	9	35	203.8	49.0	+1.7
	9	50	253.1		

~~Region, about~~
Object glass, at end of observations, down to upper edge of lowest small shutter, but not interfering with same. Sky clear, seeing pretty good.
Eclipse considered pretty good, although Jup. was rather low and the last of the observations quite difficult.

B. & C. 1182.

7	33	55.8
	34	55.0

B. 39 K.

7	33	0.0
	34	0.0

Sept. 12. 1911.

Brooks' Comet,
Phot. J. H. obs. Brand rec.

17 26 +57.3
19 23
+1 57

7 48 Comet prec. +57° 1769 (7.8) by 38.5 secs. and is 4.'8 south of it.

Comp. Star in phot. meas'ts of nucleus on next page = +57° 1769 (7.8)

Sept. 12, 1911

Index left and below — Comp. Star dis.

7-59-0	137.6	52.2		
	189.8			
	328.0	36.9		
	4.9	89.1	+1.94	
				+1.96
	146.0	37.1		
	183.1			
	321.0	50.1		
	11.1	87.2	+1.99	

Index right and above

	51.0	54.0		
	105.0	45.5		
	232.0			
	277.5	99.5	+1.67	
				+1.57
	51.7	45.3		
8-7-30	97.0	62.5		
6 30	224.5	107.8	+1.47	
8 3 15	287.0			
+5 -49				
13 2 26.				mean. +1.76

9292.5434

Nucleus fairly stellar.
Surrounding coma rather bright, increasing up to a maximum at centre.
W's watch used for times.
Watch 49 secs. fast. L. P. P.

Sept. 13. 1911. (Wednesday).

Brooks' Comet. W. obs. Brand rec.
Phot. S. meast. of Nucleus.

17 13 +57.2
19 17
+2 4

Comp. Star = +56° 1954 (7.5)
Phot. mag. = 7.06

Sept. 13, 1911.

Index left + above

234.9 ← 44.7 Comp. Star dis.

7-35-30 279.6

61.5 27.3

88.8 72.0 +2,44

+2,44

240.2 28.8

269.0

53.9 43.7

97.6 72.5 +2.43

Index right and above

141.5

189.1 47.6

330.1 28.9

359.0 76.5 +2,30

151.4 30.3 +2,48

7-44-10 181.7

79 40. 327.5 35.1

7 39 50. 2.6 65.4 +2,66

+5 -51.

12 38 59.

9293.5271

magn. C.S. = 2.46 / 7.06 / 9.52

Nucleus rather poorly defined.

Sept. 13. 1911.

R S Sagittarii.

18 9 −3.42
20 12
~~+1 √1~~
+2 3

Sept. 13. 1911.

Index right & above I

Var. dis.

8-36-20

300.9 31.0
331.9
117.9 38.8
156.7 69.8 -2.51

296.8 39.8 -2.50
336.6
121.5 31.1
152.6 70.9 - 2.48

Index left & below.

212.0 31.1
243.1
27.8 38.0
65.8 69.1 -2.54

208.1 36.9 -2.58
245.0
30.9 29.9
60.8 66.8 -2.61

-2.54

8-44-30

	8 0	50.0
8	40	25.5
+5		-51.0
13	39	34.

9293.5692

Sept. 13. 1911.

Index left + below. II

212.0 28.5
8-47-50 240.5
26.1 39.6
65.7 68.1 -2.57

-2.57

205.9 39.5
245.4
33.0 28.7
61.7 68.2 -2.57

Index right + above.

121.8 31.0
152.8
298.8 39.0
337.8 70.0 -2.51

117.0 41.0 -2.50
8-56-10 158.0
301.8 29.4
331.2 70.4 -2.49

10 ~~4~~ 0
8 52 0
+5 -51.
13 51 9.
9293.5772

-2.54

Sept 13, 1911

Index right + above. III

8-58-35

121.4
151.2 29.8
297.5 39.4
336.9 69.2 −2,53

−2,52

115.0 40.6
155.6
302.0 29.4
331.4 70.0 −2,51

Index left + below.

32.6
62.5 29.9
207.2 38.8
246.0 68.7 −2,55

−2,54

28.1 3 ~~4~~9.3
6 ~~7~~7.4
212.0 29.9
241.9 69.2

−2,53
Something wrong in second setting. Probably an error of 10° in reading, 67.4 assumed

−2,5~~4~~ 3

9-6-10
4 45
9 2 22.5
+5 −51.5
14 1 31

9293.5844

Sept 13, 1911

Index left + below. IV

32.1 29.7
9-8-30 61.8
207.8 38.1
245.9 67.8 -2.58

27.0 40.2 -2.54
67.2
211.5 30.0
241.5 70.2 -2.50

Index right + above.

302.2 31.0
333.2
117.0 39.5
156.5 70.5 -2.49

296.4 39.9 -2.52
9-16-20 336.3
24 50.^{s} 121.9 28.9
9 12 25.^{s} 150.8 68.8 -2.55
+5 -51.^{s}
14 11 34.^{s} W's watch used for times,
9293.5914 watch 51 secs. fast,

-2.53

L. P. P.

Sept. 14. 1911. (Thursday).

R S Sagittarii: Tr. obs. Brand rac, Phot. Ev. (1 prism)

18 9 −34.2
18 55
+0 46

Sept. 14, 1911.

Index right and above Var. dis. I

7-16-0

122.7 29.6✓
152.3 ✓
296.7 40.3 ✓
337.0 69.9✓ — *2.51 ✓

115.8 40.8✓ — *2.51 ✓
156.6 ✓
302.0 29.1 ✓
331.1 69.9✓ — *2.51 ✓

Index left and below
32.0 29.2✓
61.2
206.5 39.0✓
245.5 68.2✓ — *2.57 ✓

26.0 39.5✓ — *2.58 ✓
65.5 ✓
213.0 28.2 ✓
241.2 67.7✓ — *2.59 ✓

— *2.54 ✓

7-24-10
40 10.✓
7 20 5.✓
+5 -50.✓
1219 1 5.✓
9294.5133✓

Sept. 14, 1911.

Index left and below **II**

7-28-30

33.4
61.9 28.5 ✓
205.9 42.0 ✓
247.9 70.5 ✓ −2.49 ✓

27.6 37.4 ✓ −2.59 ✓
65.0
213.6 27.2 ✓
240.8 64.6 ✓ −2.69 ✓

Index right and above

302.5 29.1 ✓
331.6
117.1 41.5 ✓
158.6 70.6 ✓ −2.49 ✓

−2.54 ✓

296.7 39.7 ✓
336.4
123.6 27.7 ✓
151.3 67.4 ✓ −2.59 ✓

−2.56 ✓

7-36-20
64 50. ✓
7 32 25. ✓
+5 −50. ✓
12 31 35. ✓
9294.5219 ✓

Sept. 14, 1911.

Index right and above III

7-39-0
303.4 28.4 ✓
331.8
115.2 43.4 ✓
158.6 71.8 ✓ -2.45 ✓

-2.39 ✓
~~-2.40~~

294.2 46.2 ✓
340.4 29.3 ✓
122.6 75.5 ✓ -2.3~~8~~3
151.9

Index left and below
212.8 28.9 ✓
241.7
26.8 39.4 ✓
66.2 ~~67~~ 68.3 ✓ -2.56 ✓

2.07.2 38.3 ✓ -2.60 ✓
7-46-10 245.5
85 10. ✓
32.8 27.5 ✓
7 42 35. ✓ 60.3 65.8 ✓ -2.65 ✓
+5 -50. ✓
12 41 45 ✓ -2.50 ✓
9294.5291 ✓

Sept. 14, 1911.

Index left and below IV

213.0 28.8 ✓
7-52-10 241.8 ✓
27.0 38.0 ✓
65.0 66.8 ✓ -2.61 ✓

-2.64 ✓

207.6 37.3 ✓
244.9 ✓
32.9 28.1 ✓
61.0 65.4 ✓ -2.66 ✓

Index right and above

122.0 30.0 ✓
152.0 ✓
296.3 40.7
337.0 70.7 ✓ -2.48 ✓

-2.44 ✓

113.1 44.2 ✓
7-59-0 157.3 ✓
302.9 29.1 ✓
332.0 73.3 ✓ -2.40 ✓

111 10. ✓
7 55 35 ✓
+5 -50. ✓

-2.54 ✓

12 54 45
9294.5381 ✓

Sept. 14, 1911.

V

Index right and above

8-1-20

122.1 ✓
152.2 30.1 ✓
296.6 40.1 ✓ −2.58 ✓
336.7 70.2

−2.54 ✓

118.0 ✓
157.1 39.1 ✓
302.0 29.0 ✓ −2.57 ✓
331.0 68.1

Index left and below

33.5 28.5 ✓
62.0
207.0 41.6 ✓
248.6 70.1 ✓ −2.50 ✓

−2.48 ✓

22.6 44.2 ✓
66.8
212.5 27.5 ✓
240.0 71.7 ✓ −2.45 ✓

−2.51 ✓

8-7-20

8 40. ✓
8 4 20. ✓
+5 −50. ✓
13 3 30. ✓
9294.5441 ✓

Sept. 14, 1911

Index left and below ~~VI~~

33.5 28.0 ✓
8-9-30 61.5
207.5 39.5 ✓
247.0 $\overline{67.5}$ ✓ −2.59 ✓

26.8 39.2 ✓ −2.60 ✓
66.0
213.3 27.9 ✓
241.2 $\overline{67.1}$ ✓ −2.60 ✓

303.3 28.3 ✓
331.6
113.9 44.1 ✓
158.0 $\overline{72.8}$ ✓ −2.43 ✓

296.5 40.5 ✓ −2.47 ✓
8-16-0 337.0 ✓
122.5 29.3
151.8 $\overline{69.8}$ ✓ −2.51 ✓

25 30. ✓
8 12 45. ✓
+5 −50. ✓ −2.54 ✓
13 11 55 ✓
9294.5499 ✓

Sept. 14, 1911.

Brooks' Comet

16 v 9 + v 6.8
20 1 0
+3 1 1

For measts. see next page.

Sept. 14. 1911.

Index left + above.

C. S. dis.

8-36-20

244.0 21.0 ✓
265.0
62.2 26.8 ✓
89.0 47.8 ✓ +3.37 ✓

+3.4~~8~~6

242.2 26.4 ✓
268.6 18.0 ✓
67.0 44.4 ✓ +3.54 ✓
85.0

Index right and below
155.9 16.9 ✓
172.8
334.0 23.5 ✓
357.5 40.4 ✓ +3.75 ✓

+3.74 ✓

153.9 23.1 ✓
177.0 17.8 ✓
336.5 40.9 ✓ +3.72 ✓
354.3

8-44-40
81 0. ✓
8 40 30. ✓
+5 -50. ✓
13 39 40.

+3.60 ✓
~~+3.59~~

Comp. Star for above group = +56° 1934 (6.0)
9294.5692 ✓ Phot. magn. = 6.11

W's watch used for time
Watch 50 seconds fast.

3.60
6.11
Magn. [illegible] = 9.71

L. P. P.

Sept. 16, 1911. (Saturday).

Reap. Jup. I, Phot. R. (1 prism)
W. obs. Brand rec.

Compared with more remote of two sats.
on prec. side = Sat. III,

~~B. + C. 1182.~~

Fr. 3451,
10 53 47.2
10 54 47.4

~~B. 394.~~

B. 394.
6. 42 0.0
43 0.0

over.

Sept. 16. 1911.

#
A persistent attempt was made to observe the Reap. of Sat. I, but the region was so low – and there was fog also – that the Reap. could not be observed.

Watched for sat. I for some 6 minutes after theoretical time of Reapp. but H. was not absolutely sure that he saw ~~the~~ sat (I) at any during these 6 minutes.

Sat. II at the last, almost invisible.

Sept. 16. 1911

Brooks' Comet. Meast. of Nucleus.
Phot. ~~L.~~ ~~Up~~ T. W. obs. Brand rec.

16	33	+56,1
19	33	
+ 3	0	

Phot. magn. 5.44
7 44 Comet precedes +56° 1907, (5.4) by
2m 10s and is 3,'0 north of it.

Comp. Star = +56° 1907 (5.4), Phot. magn. 5.44.

Comet rather bright, quite a large patch of coma, in the telescope, running up. to a maximum of light at centre.
Nucleus a little stellar, but not strongly so.

Sept. 16. 1911.

Index left and below C. S. dis.

7-59-10

157.9 ← 14.5
172.4
334.5 20.5
355.0 35.0 +4.06

+4.02

154.3 19.4
173.7 16.8
338.2 36.2 +3.99
355.0

Index right and above

69.4 13.1
82.5
245.0 20.7
265.7 33.8 +4.14

+4.24

68.0 17.4
85.4
249.3 13.5
262.8 30.9 4.34

8-8-0
7 10.
8 3 35.
+5 -52.
13 2 43.

5.44
+4.13
magn. Nucleus = 9.57

9296.5436 Nucleus fairly well defined – coma running rather up to maximum at centre.

Sept. 16. 1911.

R S Sagittarii:

18 9 $-3^{h}.2$
20 9
+2 0

Too foggy.
Abandoned.

W's watch used for times.
Watch 52 secs. fast.

L. P. P.

Sept. 19. 1911. (Tuesday)

R S Sagittarii

18 9 −34.2
19 20
+1 11

5 groups taken — See fol. pages.

Sept. 19, 1917.

Index right

I

7-24-20

302.3
329.8 27.5 ✓
115.3 36.9 ✓
152.2 64.4 ✓ −2.70 ✓

−2.64 ✓

297.0 39.0 ✓
336.0 28.5 ✓
122.5 67.5 ✓ −2.59 ✓
151.0

Index left

209.7 30.8 ✓
240.5 40.8 ✓
25.6 71.6 ✓ −2.45 ✓
66.4

−2.47 ✓

206.7 40.3 ✓
241.0
31.1 30.3 ✓
61.4 70.6 ✓ −2.49 ✓

mean −2.56 ✓

7-30-30 ✓
54 50. ✓
7 27 25. ✓
+5 54. ✓
12 26 31. ✓
9 2 99.5144 ✓

Sept. 19, 1911.

Index left

II

7-33-10

211.2 30.7
241.9
25.6 42.8
68.4 73.5 -2.39

205.7 41.0 -2.44
246.7
33.0 29.7 -2.42
62.7 70.7

Index right

122.2 27.6
149.8
295.4 40.8
336.2 68.4 -2.56

116.5 40.2 -2.56
156.7
302.9 28.1
331.0 68.3 -2.56

mean -2.50

7-40-10
73 20.
7 36 40.
+5 -54.
12 35 46
9299.5249

Sept. 19, 1911.

III

Index right

122.3 28.3 ✓
7-44-40 150.6 36.8 ✓
300.2 65.1 ✓ −2.67 ✓
337.0

−2.69 ✓

118.3 36.6 ✓
154.9 27.5 ✓
302.6 64.1 ✓ −2.71 ✓
330.1

Index left

32.1
61.5 29.4 ✓
206.0 41.9 ✓
247.9 71.3 ✓ −2.46 ✓

−2.50 ✓

26.0 39.8 ✓
7-52-10 ✓ 65.8
96 50. ✓ 212.0 29.2 ✓
7 48 25. ✓ 241.2 69.0 ✓ −2.54 ✓
+5 −54. ✓
12 47 31.

9299.5 330 ✓

mean −2.60 ✓

Sept. 19, 1911.

Index left IV

32.1 29.5 ✓
7-55-15 61.6 ✓
204.8 42.8 ✓
247.6 72.3 ✓ -2.43 ✓

25.5 40.5 ✓ -2.48 ✓
66.0 28.6 ✓
212.0 69.1 ✓ -2.54 ✓
240.6

Index right

302.2 28.8 ✓
331.0 ✓
117.0 39.5 ✓
156.5 68.3 ✓ -2.56 ✓

-2.61 ✓

297.5 37.0 ✓
8-0-50 334.5 28.6 ✓
116 5 ✓ 122.0 65.6 ✓ -2.66 ✓
7 58 2. ✓ 150.6
+5 -54. ✓ mean -2.54 ✓
12 57 8. ✓
9299.5397 ✓

Sept. 19, 1911.

Index right

V

8-3-40

303.1
331.0 27.9 ✓ ✓
115.0 41.2
156.2 69.1 ✓ -2.54 ✓

-2.48 ✓

296.0 45.0 ✓
341.0 27.3 ✓
122.5 72.3 ✓ -2.43 ✓
149.8

Index left

212.9 31.8 ✓
244.7
26.5 39.7 ✓
66.2 71.5 ✓ -2.46 ✓

-2.50 ✓

201.0 39.6 ✓
246.6
32.2 29.3 ✓
61.5 68.9 -2.54 ✓

8-13-30 ✓
17 10.
8 18 35. ✓
45 -54. ✓
13 7 41 ✓
9299.5470 ✓

mean -2.49 ✓

Sept. 19. 1911.

Brooks Comet,
Meast. of Nucleus.
Phot. I. W. obs. Brand rec.,

15 56 +54.6
20 30
+4 34

Comp. Star = +55° 1793 (5.1) Phot. mag. 4.96
(See Vol. 50.)

Some fog, and Nucleus not ~~quite~~ as sharply defined as on the last night.

Sept. 19, 1911.

Index below — C. S. div.

	71.1	10.5		
8-40-0	81.6	20.0		
	245.0	30.5	+4.37	
	265.0			
				+4.48
	67.2	16.8		
	84.0			
	249.1	10.9		
	260.0	27.7	+4.58	

Index above

	340.0	15.4		
	355.4			
	154.4	23.5		
		38.9	+3.83	
	177.9			
				+3.74
	332.9	27.8		
8-48-40	0.3			
8 40.	159.0	15.0		
		42.8	3.64	
8 44 20.	174.0			
+5 -54.				+4.11
13 43 26.				+4.96
9299.5718				[illegible] = 9.07

W's watch used for time.
Watch 54 seconds fast.

L. P. P.

Sept. 20, 1911. (Wednesday).

R S Sagittarii

18	9	−34.2
19	14	
+1	5	

Sept. 20, 1911

I

Index left and below

7-10-55

32.3
60.5 28.2
38.0
207.0 66.2 -2.64
245.0

-2.59

24.5 40.5
65.0
213.0 28.4
241.4 68.9 -2.54

Index right and above

304.3 26.9
331.2
114.4 39.9
154.3 66.8 -2.61

-2.58

295.4 41.7
337.1 29.1
122.2 70.8 -2.48
151.3

-2.56

7-18-40

9 35 ✓
7 14 48. ✓
45 55. ✓

12 13 53. ✓
9300.5096 ✓

Sept. 20, 1911

Index right and above   II.

3~~02~~.9 114.4
~~7-21-10~~ 7-22-45 3~~31~~.1 160.2 45.8
304.0 26.4
330.4 72.2 -2.43

122.5 28.2 -2.44
150.7
293.5 43.8
337.3 72.0 -2.44

Index left and below

27.3
64.7 37.4
211.6 30.4
242.0 67.8 -2.58

32.8 27.9 -2.60
60.7
207.7 38.8
246.5 66.7 -2.62

-2.52

7-30-30
53 15
7 26 38
+5 -55.
12 25 43.
9300.5179

Sept. 20, 1911.

Index left and below

III

27.0 36.9
7-33-50 63.9
213.8 26.8
240.6 63.7 −2.73

33.4 27.5 −2.66
60.9
206.5 39.9
246.4 67.4 −2.59

Index right and above
296.7 39.3
336.0
123.2 28.2
151.4 67.5 −2.59

−2.55

301.7 29.3
331.0
116.1 40.5
156.6 69.8 −2.50

−2.60

7-40-0
7 33 50.5 ✓
7 36 55.5 ✓
+5 −55.5 ✓
12 36 0.5 ✓
9300.5−250 ✓

Sept. 20, 1911

IV

Index right and above

7-46-5

299.5 32.0
331.5
121.9 29.7
151.6 61.7 -2.80

-2.65

301.8 29.5
331.3
116.3 40.8
157.1 70.3 -2.50

Index left and below

207.2 39.8
247.0
33.5 26.5
60.0 66.3 -2.63

-2.64

214.3 26.1
240.4
27.0 39.3
66.3 65.4 -2.66

-2.64

7-53-10
99 15.
7 49 38.
+5 -55.
12 48 43
9300.5338

Sept. 20, 1911

IV

Index left and below

7-55-40

207.6
245.6 38.0
33.3 27.1
60.4 65.1 -2,67

-2,66

213.0 28.1
241.1 38.1
27.5 66.2 -2,64
65.6

Index right and above

114.5
154.9 40.4
302.1 29.4
331.5 69.8 -2,51

-2,57

123.9
151.3 27.4
297.1 38.9
336.0 66.3 -2,63

8-2-35

11 8 15.
7 59 8.
+5 -58.

12 58 13.
9300.5404

-2,62

Sept. 20. 1911.

Brooks' Comet. Phot. I.
W. obs. Brand rec.

15 45   +54.0
20 24
74 39

Comp. Star = +54° 1769 (B.D.)

Sept. 20, 1911.

Index left — C. S. dis.

201.0 110.0

8-44-0 311.0 85.3

31.6 195.3

116.9 164.7 −0.29

206.1 86.9 −0.29

293.0

19.5 108.5

128.0 195.4

164.6 −0.29

Index right

109.4 108.6

218.0

300.5 79.7

188.3

20.2 171.7 −0.16

−0.22

124.0 80.0

8-52-40 204.0

96 40. 287.2 114.0

8 48 20. 194.0

+5 −55. 41.2 166.0 −0.27

13 47 25.

9300.5746

mean −0.26

L. P. P.

W's watch used for time.

Watch 55 seconds fast.

Sept. 22. 1911. (Friday).

R S Sagittarii

18^h 9 −34,2
19 22
+1 13

Sept. 22, 1911

I

Index left and below

7-8-40

32.0 29.4
61.4 42.5
206.0
248.5 71.9 -2.44

-2.40

25.0 44.6
69.6
212.2 30.3
242.5 74.9 -2.35

Index right and above

300.6 31.4
332.0 43.1
115.4 74.5 -2.36
158.5

-2.36

294.5 42.9
337.4
122.1 30.2 -2.41
152.3 73.1

-2.39

7-15-10

23 50.
7 11 55.
+5 -1 0.
12 10 55.

9302.5075+

Sept. 22, 1911.

II

Index right and above

7-17-0

301.5
332.4 30.9
113.4 45.0
158.4 75.9 -2.32

-2.32

294.0 43.4
337.4
121.5 32.4
153.9 75.8 -2.32

Index left and below

211.5
244.4 32.9
26.1 42.4
68.5 75.3 -2.34

-2.25

201.9 48.6 ✓
250.5 32.5 ✓
31.5 81.1 ✓ -2.16
64.0

-2.28

7-23-0

	40	0 ✓
7	20	0. ✓
+5	-1	0. ✓
12	19	0 ✓

9302.5132 ✓

Sept. 22, 1911.

III

Index left and below

7-25-35
211.8
243.9 32.1
24.2 44.3
68.5 76.4 -2.30

-2.29

204.2 45.6
249.8
31.5 31.6
63.1 77.2 -2.28

Index right and above
121.0
151.7 30.7
295.2 42.7
337.9 73.4 -2.40

-2.40

114.1 42.6
156.7
301.6 30.7
332.3 73.3 -2.40

-2.34

7-32-55
58 30
7 29 15.
+5 -1 0.
12 28 15.
9 302.5 1 95+

Sept. 22, 1911.

IV

Index right and above

7-35-0 120.6
152.0 31.4
295.4 41.7
337.1 73.1 -2.41

-2.40

114.9 43.1
158.0 30.6
302.1 73.7 -2.39
332.7

Index left and below

32.0
61.5 29.5
203.9 45.7
249.6 75.2 -2.34

-2.37

~~25.8~~ 211.9 29.9
~~9-41-15~~ 7-42-55 ~~66.9~~ 241.8
25.0 43.4
68.4 73.3 -2.40

77 55 ✓
7 38 58. ✓
+5 -1 0. ✓
12 37 58. ✓
9302.5264

-2.38

Sept. 22, 1911.

V

Index left and below

7-44-50

204.3 43.5
247.8 30.4
32.0 73.9 -2.38
62.4

-2.38

212.3 30.1
242.4 43.6
24.8 73.7 -2.39
68.4

Index right and above

115.0 41.0
156.0
300.9 31.1
332.0 72.1 -2.44

-2.43

120.8 30.6
151.4 42.1
294.9 72.7 -2.42
337.0

7-51-30
96 20.
7 48 10.
+5 -1 0.
12 47 10.
9302.5327

-2.40

Sept. 22. 1911.

Brooks Comet. meast. of nucleus.
~~Phot. I~~ W. obs. Brand rec.
Phot. Ps. (1 prism).

15 22 +52.4
20 52
---
45 20

Comp. Star = +52° 1876 (7.0)
Phot. magn. C. S. = 7.03 magn.

Sept. 22, 1911

Index right — C. S. dir.

210.4 34.8
8-41-30 245.2
31.7 33.8
65.5 68.6 +2.55

212.5 28.4 +2.53
240.9
26.0 41.4
67.4 69.8 +2.51

Index left

117.0 40.1
157.1
302.0 31.5
333.5 71.6 +2.45

122.5 26.1 +2.55
8-49-45 148.6
91 15 295.8 39.6
8 45 38. 335.4 65.7 +2.65
+5 -1 0.
13 44 38.
9302.5726

+2.54
7.03
Magn. Nucleus 9.57

Sept. 22, 1911.
Phot. I. (Andrews)
Index left

136.2 ← C. S. dis.
9-7-10 193.1 56.9
329.0 40.9
9.9 97.8 +1.71

146.0 43.5 +1.72
189.5
321.3 53.5
14.8 97.0 +1.73

Index right
51.0 50.2
101.2
235.0 40.0
275.0 90.2 +1.91

+1.86
53.7 42.3
9-13-50 96.0
21 0 227.8 51.8
9 10 30 279.6 94.1 +1.81
+5 -1 0 Obs. somewhat difficult. Run of +1.79
14 9 30 prism (Phot. I.) small, C. S. near E. 7.03
9302.5900 Had to keep adjusted objects in centre 8.82
of field, else light varied relatively.

W's watch used for time.
Watch 1' 0" sec fast.
L. P. P.

Sept. 23. 1911. (Saturday).

R S Sagittarii: W. S. Brand rec.
Phot. R. (1 prism)

18 9 −34.2
19 31
+1 22

Sept. 23, 1911

I

Index right and above

121.3 ← Var. dir.

7-14-40 152.0 30.7

294.3 45.1

339.4 75.8 *2.32

– *2.34

115.5 41.9

157.4

301.3 32.3

333.6 74.2 *2.37

Index left and below

32.0 30.0

62.0 44.2

204.2 74.2 –2.37

248.4

–2.38

24.9 43.7

7-21-35 68.6 29.7

212.5 73.4 –2.40

242.2

36 15.

7 18 8.

+5 –1 1.

12 17 7.

9303.5 119

–2.36

8.70

6.34

Sept. 23, 1911.

II

Index left and below

7-24-0
31.7
62.8 31.1
206.4 42.3
248.7 73.4 −2.40

25.1 42.4
67.5
211.3 30.3
241.6 72.7 −2.42

−2.41

Index right and above
300.6 31.8
332.4 44.3
114.5 76.1 −2.31
158.8

−2.24

291.2 48.4
7-30-50
339.6 32.8
54 50. 120.2 81.2 −2.16
7 27 25. 153.0
+5 −1 1.
12 26 24.
9 303.5184

−2.32
8.70
6.38

Sept. 23, 1911

III

Index right and above

7-33-30

302.0 31.2
333.2 45.7
114.0 76.9 −2,29
159.7

−2,28

294.1 45.1
339.2 32.3
121.5 77.4 −2,27
153.8

Index left and below

30.1
62.9 32.8
205.7 43.3
249.0 76.1 −2,31

−2,32

25.1 43.7
68.8
211.0 31.8
242.8 75.5 −2,33

7-41-25
74 55.1
7 37 28.
+5 −1 1.
12 36 27.
9303.5253

~2.30
8.70
6.40

Sept. 23, 1911

IV

Index left and below

30.0
7-45-50 62.5 32.5
207.2 42.5
249.7 75.0 -2.35

-2.32

25.9 43.6
69.5 33.7
210.3 77.3 -2.28
244.0

Index right and above

300.5
335.8 35.3
113.9 46.1
160.0 81.4 -2.15

-2.20

295.0 45.1
7-53-0 340.1
98 50. 120.0 32.8
7 49 25. 152.8
+5 -1 1. 77.9 -2.26
12 48 24.
9 303.5 336

-2.26
8.70
6.44

Sept. 23, 1911.

IV

Index right and above

7-55-40

300.3 33.3
333.6
112.1 47.7
159.8 81.0 -2.17

-2.14

291.1 49.0
340.1
119.8 33.8
153.6 82.8 -2.11

Index left and below

211.5 31.7
243.2
24.4 45.1
69.5 76.8 -2.29

-2.30

204.7 44.3
249.0
31.1 31.7
62.8 76.0 -2.32

8-3-10
11 8 50
7 59 25.
+5 -1 1.
12 58 25.
9303.5406

-2.22
8.70
6.48

Sept. 23. 1911.

Brooks ~~Comet~~ Comet, (Nucleus)

W. obs. Brand rec. Phot. J.

15	13	+51.5
20	36	
+5	23	

Comp. Star for Nucleus. = +51° 1990 (6.3)

Phot. magn. = 6.52

Sept. 23, 1911.

Index left and above — C. B. dis.

8-26-35

60.0
92.2 32.2 ✓
240.8 27.8 ✓
268.6 60.0 ✓ +2.86 ✓

+2.83 ✓

64.4 23.8 ✓
88.2 37.9 ✓
233.9 61.7 ✓ +2.80 ✓
271.8

Index right and below

323.1 43.9 ✓
7.0 ✓
150.9 28.9
179.8 72.8 ✓ +2.42 ✓

+2.34 ✓

330.7 29.3 ✓
0.0 48.6 ✓
140.0 77.9 ✓ +2.26
188.6

8-37-0

	63	35 ✓
8	31	48 ✓
+5	-1	1 ✓
13	30	47 ✓

9303.5631 ✓

+2.58 ✓
6.52
9.10 ✓

Sept. 23, 1911

9-11-0 As scaled in the finder, the comet is about in right ascension of comparison star, and about one quarter of a degree north of it.

W's watch used for time.
Watch 1' 1" fast

L. P. P.

Sept. 26. 1911. (Tuesday)

At δ Sagittarii:

$$\begin{array}{rr} 18 & 9 \\ 19 & 40 \\ \hline +1 & 31 \end{array}$$

−35.2

Sept. 26, 1911

I

Clouds

Index left and below

214.0 ← Var. Lin.
7-12-0 241.0 27.0
22.2 46.1
68.3 73.1 -2.41

-2.48

206.4 41.3
247.7 27.8
Clouds 69.1 -2.54
32.2
60.0

Index right and above

123.9 26.5
150.4 41.9
294.5 68.4 -2.56
336.4

Clouds

-2.58

117.1 40.6
157.7 26.9
303.6 67.5 -2.59
330.5

7-17-55
9 55.
7 14 58.
+5 -53.
12 14 5.
9306.5098

-2.53
8.70
6.17

Sept 26, 1911.

II

Index right and above

7-21-40

123.8
147.9 24.1
296.5 40.7
337.2 64.8 −2.68

−2.65

114.7 40.7
155.4 25.8
304.5 66.5 −2.62
330.3

Index left + below

35.2 25.5
60.7
206.2 42.0
248.2 67.5 −2.59

−2.60

26.2 40.3
66.5
214.0 26.7
240.7 67.0 −2.61

7-26-35

.8 15. ✓
7 24 8. ✓
+5 −53. ✓ ✓
12 23 15. ✓
9306.5162

−2.62
8.70
6.08

Sept. 26, 1911.

III

Index left and below

7-29-35

34.0 26.9
60.9
207.9 37.4
245.3 64.3 -2.70

-2.64

28.7 39.6
68.3
213.0 27.8
240.8 67.4 -2.59

Index right and above

304.6 26.4✓
331.0
117.0 40.8✓
157.8 67.2✓ -2.60

-2.58

296.6 39.4✓
336.0 ✓
122.0 28.6
~~78.0~~
150.6 68.0✓ -2.57

7-35-0
4 35.✓
7 32 18.✓ ✓
+5 -53.
12 31 25.✓
9306.5218✓

-2.61
8.70
6.09

Sept. 26, 1911.

IV

Index right and above

303.0
7-36-50 331.5 28.5
116.1 39.1
155.2 67.6 −2.59

−2.59

296.0 42.0
338.0
124.4 25.6
150.0 67.6 −2.59

Index left and below

213.2
242.0 28.8
25.4 41.6
67.0 70.4 −2.49

206.3 43.7 −2.50
7-43-0 250.0
34.2 25.9
60.1 69.6 −2.52

79 50.
7 39 55.
+5 −53.
12 39 2.
9306.5271

−2.54
8.70
6.16

Sept. 26, 1911.

Index left and below V

7-45-30 214.5 26.3
240.8
24.2 43.8
68.0 70.1 -2.50

-2.52

206.0 41.0
247.0
33.5 27.9
61.4 68.9 -2.54

Index right and above

124.2 26.6
150.8
297.0 39.7
336.7 66.3 -2.63

-2.61

116.6 41.4
7-51-0 158.0
96 30. 304.6 26.0
7 48 15. 330.6 67.4 -2.59
+5 53.
12 47 22.
9306.5329

-2.56
8.70
6.14

Sept. 26. 1911.

Brooks' Comet (1911 c).

1h 41 +46.7
20 38
+5 57

8-21-0 Comet precedes +46° 2243 (9.0) by 46 sec. and is 0.'7 south of it

Nucleus ~~somewhat~~ rather sharp and fairly well defined in large telescope.

Heavy clouds coming in and covering whole sky. Impossible to measure light of comet.

W's watch used for time.
Watch 53 sec. fast.

Sept. 26. 1911.

Index left and above
330.9
359.2
Clouds cover reading

L. A. P.

Sept. 28. 1911. (Thursday).

R S Sagittarii.

18 9 -34.2
19 51
+1 42

For meas'ts., see fol. pages.

Sept. 28, 1911

I

Index right and above

116.9 41.3
7-10-35 158.2 57.8
288.6 99.1 -1.68
346.4

-1.70

108.0 57.4
165.4
291.2 40.2
337.4 97.6 -1.72

Index left and below

28.0
67.0 39.0
197.8 61.0
258.8 100.0 -1.66

19.0 54.4
7-18-50 73.4 -1.80
29 25.0 207.0 35.1
7 14 42.0 242.1 89.5 -1.93
45 -52.0
12 13 50.0
9 302.5096

-1.75
8.70
6.95

1911phae.proj..607O

Sept. 22, 1911.

II

Index left and below

~~25.0~~ 198.6 56.0

7/23/30 ~~66.6~~ 254.6

27.0 39.6

66.6 95.6 -1.77

206.2 43.3 -1.79

249.5

20.6 50.6

71.2 93.9 -1.81

Index right and above

108.3 55.2

163.5

297.5 41.0

338.5 96.2 -1.75

97

115.5 42.4 -1.74

7/30/55 157.9

54 25 289.5 54.9

7 27 12 344.4 97.3 -1.72

45 -52

12 26 20

9308.5183

-1.76

8.70

6.94

Sept 28, 1911.

III

Index right and above

110.0 53.0
7-33-25 163.0
298.3 38.3
336.6 91.3 −1.88

−1.82

118.3 39.7
158.0
288.7 56.7
345.4 96.4 −1.75

Index left and below

21.0 52.2 ✓
73.2 ✓
208.5 32.3
240.8 84.5 ✓ −2.06

27.3 40.3 ✓ −1.94
7-40-0 67.6
199.7 53.7 ✓ −1.81
253.4 94.0 ✓

7 3 25. ✓
7 36 42. ✓
+5 −52. ✓
12 35 50. ✓
9308.5249

−1.88
8.70
6.82

Sept. 28, 1911.

IV

Index left and below

7/42/0

21.0 52.5
73.5
209.0 36.2
245.2 88.7 -1.95

-1.94

28.7 35.8
64.5 53.9
200.3 89.7 -1.92
254.2

Index right and above

288.3 56.7
345.0
116.2 41.3
157.5 98.0 -1.71

-1.72

297.1 41.1
338.2 56.5
109.0 97.6 -1.72
165.5

7-48-50
9 0 50.
7 45 25.
+5 -52.
12 44 33
9308.5310

-1.83
8.70
6.87

Sept. 28, 1911.

V

Index right and above

7-53-30

119.5
157.3 38.0
289.6 54.0
343.6 92.0 -1.86

111.3 53.2 -1.85
164.5
297.9 39.7
337.6 92.9 -1.84

Index left and below

28.0
66.1 38.1
201.3 54.1
255.4 92.2 -1.86

21.0 52.4 -1.88
73.4
207.7 38.0
245.7 90.4 -1.90

8-1-0

114 30.
7 57 15.
+5 -52.
12 56 23
9308.5392

-1.86
8.70
6.84

Sept. 28. 1911.

Brooks' Comet - Phot. I.
Yr. obs. Brand rec.
Comp. Star = +46° 1967 (A.v.)
Meast. of Nucleus.

14 27 +46.7
20 56

+6 29

For measts. see next page.

Sept. 28, 1911.

Index left and above nucleus dis.

294.1
8-34-0 30.6 96.5
129.2 68.8
198.0 165.3 −0.28

306.0 76.6 −0.28
22.6
118.4 88.6
207.0 165.2 −0.28

Index right and below
208.0 88.1
296.1
46.5 56.4
102.9 144.5 −0.68

224.0 64.0 −0.58
8-45-5 288.0
31.6 90.3
121.9 154.3 −0.49
−0.43

	79	5.
8	39	32.
+5		−52.
13	38	40.

9308.5686

W's watch used for times.
Watch 5.2 sec. fast.

L. P. P.

Sept. 30. 1911. (Saturday).

R S Sagittarii.

18 9 −34.2
19 54

1 45

Sept. 20, 1911.

I

Index left and below

7-10-10
34.6
61.5 26.9
207.3 41.0
248.3 68.0 -2.57

24.4 44.6 -2.52
69.0
213.5 26.5
240.0 71.1 -2.47

Index right and above
303.5
330.5 27.0
117.1 39.2
156.3 66.2 -2.64

7-18-45 ~~299.2~~ 304.6 25.2 -2.66
~~7-16-50~~ ~~338.4~~ 329.8
28 55.0 ✓ 126.2 116.8 39.9
7 14 28. ✓ 156.1 65.1 -2.67
+5 -53. ✓
12 13 35. ✓
9310.5094 ✓

-2.59
8.76
6.17

Sept. 30, 1911

II

Index right and above

295.3
7-26-30 337.2 41.9
123.6 28.2
151.8 70.1 -2.50

303.5 -2.52
332.0 28.5
116.4 40.4
156.8 68.9 -2.54

Index left and below

208.8 32.6
241.4
31.9 28.5
60.4 61.1 -2.82

212.2 -2.66
7-26-5 242.4 30.2
46 35.5 26.0 40.4
7 23 18.5 66.4 70.6 -2.49
+5 -53.5
12 22 25.5
9310.5/56

-2.59
8.70
6.11

Sept. 30, 1911.

III

Index ~~left~~ and below

7-27-50

206.8
241.0
33.8
61.6

34.2
27.8
62.0

−2.79

−2.72

213.0
241.2
26.8
64.1

28.2
37.3
65.5

−2.66

Index right and above

~~116.8~~ 302.8
~~157.0~~ 335.0
116.6
155.5

32.2
38.9
71.1

−2.47

296.3
337.6
123.7
151.0

41.3
27.3
68.6

−2.51

−2.55

7-34-0
61 50.
7 30 55.
+5 −53.
12 30 2.
9310.5208

−2.67
8.70
6.08

Sept, 30, 1911.

IV

Index right and above

7-36-5

303.8
332.4 28.6
116.7 40.1
156.8 68.7 −2.55

−2.55

Assume 3
296.6
335.5 38.9
122.5 29.9
152.4 68.8 −2.55

Index left and below

213.0
240.6 27.6
28.6 37.2
65.8 64.8 −2.68

−2.65

207.2✓
245.0 37.8
33.0 28.9
61.9 66.7 −2.62

7-41-35
77 40. ✓
7 38 50. ✓
+5 −53. ✓
12 37 57. ✓
9310.5264✓

−2.60
8.70
6.10

Sept. 30, 1911.

V

7-44-40 Index left and below

212.3
241.8 29.5
28.5 37.4
65.9 66.9 −2.61

−2.70
~~−2.69~~

208.2
241.2 33.0
32.7 29.1
61.8 62.1 −2.78

Index right and above
135.3
152.4 17.1
297.5 39.5 Something wrong, Reject,
337.0

7-50-15
94 55 ✓
7 47 20. ✓
+5 −53. ✓
12 46 35 ✓
9310.5323 ✓

116.4 42.5
158.9
303.3 28.6
331.9 71.1 −2.47

−2.58
8.70
6.12

Sept. 30. 1911.

Brooks' Comet. Meast. of Nucleus.

1 4 12   +44.5
20 54
+6 42

Comp. Star in meast. of light of Nucleus.
= +44° 2342 (8.0)

Sept. 30, 1911.

Index above

8-26-0 124.0 ← nucleus dis.
~~8-23-50~~ 204.0 80.0
298.2 101.8
40.0 181.8 +0.03
178.2

0.00

113.7 101.4
215.1 77.2
309.5 178.6 −0.03
26.7

Index below
42.0 73.5✓
115.5 88.0✓
211.0 161.5✓ −0.35
299.0

−0.34

26.5 95.9✓
8-36-0 122.4
8 31 0.✓ 222.2 66.8
+5 −53.✓ 289.0 162.7 −0.33
13 30 7.✓
9310.5626✓

−0.17

W's Watch used for time L. P. P.

Watch 53 sec fast

Oct. 2. 1911 (Monday)

Brooks' Comet.

$$\begin{array}{l} \left.\begin{array}{ll} 13 & \surd \\ 20 & \surd \end{array}\right\} 2 \qquad +41.3 \\ \hline +6 \quad \surd \ \surd \end{array}$$

Oct. 2, 1911,

Index left and below

298.8

8-9-20 32.9

137.0

193.3

314.6

16.2

121.5

208.0

Index right and above

Stopped by clouds

Reject above observations,

Oct. 3. 1911. (Tuesday).

Brooks' Comet.

14 0 + 52°.0
20 10
76 1 0

$7^{hr}-20^{m}-0^{sec}$ Comet precedes star by 1^{m} 44.5^{sec} and is 16' north of it.

Above mentioned star about 8. magnitude.

Too cloudy to measure ~~F~~.

Oct. 7. 1911. (Saturday.)

Brooks Comet, meast. of Nucleus.
Phot. I. H. to Brand rec.

13 26 +35.7
20 26
+7 0

Comp. Star = +35° 2462 (6.7). Phot. mags. 6.80

Oct. 7, 1911

Index left and below

7-14-15

285.0 ← nucleus dis
46.9 121.9
111.8 106.7
228.6
218.5 131.4 +0.95

+1.02

288.0 110.4
38.4 124.2
102.3 234.6
226.5 125.4 +1.08

Index right and above

196.9 113.4
310.3 70.9
42.1 184.3
113.0 175.7 +0.08

216.0 78.5
294.5 111.3
20.0 189.8
131.3 170.2 +0.19

+0.14

7-21-25
35 40.5
7 17 50.5
+5 -1 11.5
12 16 39.5
9317.5 115+

+0.58
6.80
Magn. dif.= 7.38

See Journ. Oct. 9. about Photometer.

Oct. 7. 1911.

R Z Cassiop. Phot. J.

26
~~2~~ 36 +69.0
20 55

−5 41
+6 19

For measts., see fol. pages.

Oct. 7, 1911.

I

Index above

Var. dis.

145.7
8-4-30 184.6 38.9
334.5 24.8
359.3 63.7 - 2.73

~~152.0~~
~~175.8~~
326.5
5.0 38.5
150.7 25.2
175.9 63.7 -2.73

-2.73

Index below

244.0 22.0
266.0
60.0 31.0
91.0 53.0 -3.14

-3.04

237.3 37.1
274.4 20.6
66.1 57.7 -2.95
86.7

-2.88

8-13-15
17 45.
8 8 52.
+5 -1 11.
13 7 41.
9317.5470

Oct. 7, 1911.

II

Index below

8-16-25

245.0 21.0
266.0
60.0 31.2
91.2 52.2 −3.17

−3.09

238.2 33.9
272.1
64.5 22.3
86.8 56.2 −3.01

Index above

154.0 22.4
176.4
329.9 34.5
4.4 56.9 −2.98

144.0 39.6 −2.84
183.6
334.0 25.0
359.0 64.6 −2.69

8-22-30

38 55. ✓
8 19 28. ✓ ✓
+5 −1 11.
13 18 17. ✓
9317.5544 ✓

−2.96

Oct 7, 1911

III

Index above

152.5
7-24-50 175.9 23.4
328.3 36.8
5.1 60.2 -2.85

143.2 39.5 -2.82
182.7
334.6 22.4
357.0 61.9 -2.79

Index below

65.3 19.8
85.1
239.5 34.5
274.0 54.3 -3.09

57.6 35.5 -3.04
8-31-15 93.1
56 5. ✓ 245.0 20.9
8 28 2. ✓ 265.9 56.4 -3.00
+5 -1 11. ✓
13 26 51. ✓
9317.5603 ✓

-2.93

Oct. 7, 1911

IV

Index below

8-36-10

66.0	21.5	
87.5		
238.0	35.2	
273.2	56.7	-2.99

-2.96

58.0	35.5	
93.5		
244.4	22.5	
266.9	58.0	-2.94

Index above

334.3	25.2	
359.5		
144.9	38.6	
183.5	63.8	-2.72

-2.74

3263	38.0	
4.3		
151.2	24.9	
176.1	62.9	-2.75

-2.85

8-42-15

	78	25.
8	39	12.
+5	-1	11.
13	38	1.

9317.5681

Oct. 7, 1911.

V

8-46-5 Index above

333.9 24.1
357.0
144.7 39.3
184.0 63.4 −2.73

327.5 36.7 −2.77
4.2
151.5 24.7
176.2 61.4 −2.81

Index below

244.4 22.8
267.2
60.0 33.1
93.1 55.9 −3.02

232.0 41.7 −2.88
8-52-50 273.7
9 8 55. 65.0 21.9
8 49 28. 86.9 63.6 −2.73
+5 −1 11.
13 48 17. P. A. 205.5 Var. B. −2.82
9317.5752

See remark on p. 220.

W's watch used for times.

Watch 1^m 11^{sec} fast

L. P. P.

Oct. 9. 1911. (Monday)

Brooks' Comet, west, of [illegible]

13 16 +33.0
20 26
+7 10

Comp. Star = +32° 2346 (7.3). Phot. magn. 7.49^{v}

Oct. 9, 1911.

Index right and above

131.1 nucleus dis

7-11-30 192.5 61.4✓

300.8 89.3✓

30.1 150.7✓ −0.56✓

118.5 88.7✓ −0.47✓

207.2 ✓

310.4 71.1

21.5 159.8✓ −0.38✓

Index left + below

50.0 53.0✓

103.0

211.0 84.7✓

295.7 137.7✓ −0.82✓

33.7 81.6✓ −0.84✓

7-17-55

115.3 ✓

29 25.✓ 228.0 53.9

13 5.5✓ −0.87✓

7 14 42.✓ 281.9

+5 −1 13.✓

12 13 29.✓

9319.5094✓

6✓

−0.6~~7~~

7.49

6.83✓

Oct. 9. 1911.

R Z Cassiop. Phot. I.

26		
~~2~~	36	+69.0
21	14	
	~~38~~	
−5	22	
+6	38	

Oct. 9, 1911

I

Index above

8-3-0	$\overset{3}{\cancel{2}}$29.0	34.3		
	3.3			
	152.7	25.6		
	178.3	59.9	−2.86	
	332.3	25.7		−2.86
	358.0			
	147.5	34.5		
	182.0	60.2	−2.85	

Index below

	238.4	34.1		
	272.5			
	65.5	20.5		
	86.0	54.6	−3.07	
	244.2	22.8		−3.18
8-9-10	267.0			
12 10.5	61.5	26.7		
8 6 5.	88.2	49.5	−3.29	
+5 −1 13				−3.0$\overset{2}{\cancel{4}}$
13 4 52				
9319.5450				

Oct. 9, 1911.

II

Index below

8-12-5
237.0 34.0
271.0
65.9 19.5
85.4 53.5 -3.12

244.0 22.3 -3.20
266.3
61.5 27.5
89.0 49.8 -3.28

Index above
146.7 35.9
182.6
336.0 21.9
357.9 57.8 -2.94

152.1 23.7 -2.85
176.4
326.5 39.0
5.5 62.7 -2.76

-3.02

8-19-15
31 20.
8 15 40.
+5 -1 13.
13 14 27.
9319.557

Oct. 9, 1911.

III

Index above

147.6 34.9
8-22-0 182.5
334.0 24.2
358.2 59.1 -2.89

152.0 23.6 -2.90
175.6
327.8 35.3
3.1 58.9 -2.90

Index below

61.0
88.4 27.4
244.5 23.6
268.1 51.0 -3.23

64.8 21.4 -3.16
8-27-0 86.2
49 0. 240.0 32.9
8 2K 30. 272.9 54.3 -3.09
+5 -1 13.
13 23 17. -3.13
9319.55 78

Oct. 9, 1911.

IV

Index below

58.0 31.5
8-30-15 89.5
244.0 23.0
267.0 54.5 -3.08

65.2 21.9 -3.10
87.1
239.0 32.0
271.0 53.9 -3.11

Index above

329.0 35.0
4.0
152.8 24.2
177.0 59.2 -2.89

335.1 23.9 -2.88
8-36-35 359.0
66 50. 147.1 36.2
δ 33 25. 183.3 60.1 -2.86
+5 -1 13.
13 32 12.
9319.5640

-2.99

Oct. 9, 1911.

V

Index above

329.2 33.2
8-40-20 2.4
152.6 25.4
178.0 58.6 −2.91

~~334.0~~ −2.94
~~358.9~~
147.2 34.8
182.0
334.4 22.5
356.9 57.3 −2.96

Index below

65.8 20.8
86.6
239.5 34.1
273.6 54.9 −3.07

−3.00

57.6 34.3
8-47-55 91.9
8 8 15. 244.0 23.5
8 44 8. 267.5 57.8 −2.94 −2.97
+5 −1 13.
13 42 55 P. A. 205.2 Vernier B
9319.5714

W's watch used for time.
Watch 1^m 13^sec fast.

over

Oct. 9. 1911.

Eye end of Phot. I. loose to-night as well as on Oct. 7. - but it is worse to-night. H. has to hold the observing end of Photometer up against the drum much of the time and as the reading circle turns somewhat hard in parts of its revolution it is quite possible that the twist changes the plane of polarization of the Nicol relative to the plane of polarization of the double image prism a little, thus vitiating the diff. of magn. between variable and comp. star slightly.

L. P. P.