KG
11365
605

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KG11365.605

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1911phae.proj..606W

Apr. 25. 1911. (Tuesday).

Double Star =
Ber. Cat. 6134.

P.A. 245° Dist 9". mags 7.1 & 7.2

12 1V +27.2

9 47

-12 20

+9 32

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1911phae.proj...606W

Apr 25 1911

Index ~~Left + Above~~

346.9 [w. fol. dis.
77.2 90.3°
173.9 83.5 ✓
257.4 173.4 ✓ −0.12 ✓

7.30.0

352.4 80.6 ✓ −0.13 ✓
73.0 92.1 ✓
168.4 172.7 ✓ −0.14 ✓
~~262.0~~ 260.5

Index ~~Right~~ Below

254.0
348.9 94.9 ✓
77.0 89.5 ✓
166.5 184.4 ✓ +0.02 ✓
175.6 ✓

261.5
349.0 87.5 ✓ +0.04 ✓
76.4 96.9 ✓
173.3 184.4 ✓ +0.02 ✓
175.6 ✓

7.37.10

−0.02 ✓

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1911phae.proj..606W

Apr. 25. 1911.

Double Star =
Ber. Cat. 5400.

P.A. 77° Dist 9 Mags 5.5 7.5
11 2V −23.9
10 1V
−1 10
+10 V0

Abandoned.
Not easily found.

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1911phae.proj...606M

Apr. 25. 1911.

Double Star. =
Ben. Cat. 4 V V D.

P. A. 226° Dist 93 Mags 6.6 7.5
α 13 +35.4
10 30
+2 17

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1911phae.proj..606W

Apr 25 1911

Index Right + Below

187.8 [n. fol. + bttr dis
239.5 1.7
357.0 21.0
68.0 127 1.13

8.7.50

179.4 69.0 1.09
248.4 7
3.4 126 1.05
60.9

Index ~~Left + Above~~

95.2 6.4
152.0
268.5 73
342.0 130.3 0.97

84.6 77.2 0.9
161.8
296.2 132.3 0.93
331.5

8.13.30

1.02

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1911phae.proj..606W

Apr. 27. 1911.

Double Star =
Bu. Cat. 4552.

P.A. 98° Dist 78" Mags 7.0 7.4

2	14	+47.7
10	47	
12	33	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj..606W

Apr. 25 1911

Index left + Below

8.27.10

354.0
71.0 [prec. dis.
166.0 77.0
255.2 89.2
166.2 0.26

349.5
80.6 91.1 0.26
174.8 83.2
166.3 0.26
250.0

Index Right + Above

268.0
339.5 71.5
73.5 95.5
167.0 0.25
169.0

8.32.45

258.4 92.0 0.29
350.4
86.2 70.4
156.6 162.4 0.33

0.24

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1911phae.proj...606W

Apr. 25. 1911.

Double Star =
Bu. Cat. 4159.

P. A. 178° Shot 65^{H} Mags 7.0 7.0

7 32 +42.7
11 7
+3 3V

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj..606W

Apr 25 1911.

Index ~~Left + Below~~

8.44.5

269.0 } n. dis.
353.8 } 84.8 ✓
74.7 106.6 ✓
183.3 ~~193.4~~ ✓ +0.25 ✓
~~166.6~~ ✓

255.9
0 0.0 104.1 ✓ +0.24 ✓
85.0 84.4 ✓
173.4 ~~192.5~~ ✓ +0.24 ✓
~~167~~ ✓

Index Right + Below

183.4 72.6 ✓
256.0
344.0 107.8 ✓
91.3 179.9 ✓ #0.00 ✓

8.48.50

164.5 107.7 ✓ +0.02 ✓
272.2
0.6 74.9 ✓
75.5 ~~182.6~~ ✓ +0.05 ✓
177.4 ✓

+0.13 ✓

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1911phae.proj...606W

Apr. 25. 1911.

Double Star =
Ben. Cat, 5418.

R A. 64 Dist 2.12" Mags 7. 7.
10 19 +2.9
11 24
+1 √

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1911phae.proj..606W

Apr. 25 1911

Index Right + Above

	80.9		
9.0.50	168.6	(S. prec. dis.	
	260.4	+7.7	
	345.0	+4.6	
		172.3	0.14

	80.2		0.16
	172.0	91.8	
	265.0	79.0	
	344.0	170.8	0.17

Index Left + Below

	350.0	+2.6	
	72.6		
	172.2	+5.4	
	257.6	168.0	0.23

	350.2	+2.7	0.24
9.5.20	72.9	+4.4	
	171.9	167.1	0.24
	256.3		

Ws watch used for times
Watch 2m 31s fast 0.20

L. A. P.

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1911phae.proj..606W

Apr. 26. 1911. (Wednesday).

Double Star =
Bu. Cat. 6134.

P. A. 245° Dist 9 Mags 7.1 7.2
12 1N +27.2

9	49
−2	26
+9	3K

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1911phae.proj..600W

Apr. 26 1911

Index Left + Above

345.1 n. sol. dis.
78.5 93.5
167.5 93.5
261.0 186.9 +0.13
173.1

345.6 91.1 +0.11
76.7 93.6
166.3 184.7 +0.09
259.9 175.3

Index Right + Below

255.7 91.5
347.2 93.5
77.4 185.0 +0.09
170.9 175.0

255.5 95.5 +0.08
351.0
77.0 89.0
166.0 184.5 +0.08
175.5

+0.10

7.17.50

7.24.45
42 3.5

7 21 18.
+5 +13.
12 21 31.

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1911phae.proj..606W

Apr. 26. 1911.

Double Star =
Ber. Cat. 4V√0

P. A. 226° Dist 93" Mags 6'6 7'5
α 13 +3√.4
10 9
+1 √6

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1911phae.proj..600W

Apr. 26. 1911

Index left + Above

7.42.30

88.0 } n. fol. + brtr dis.
158.0 } 70.0 ✓
276.0 ✓4✓ ✓
330.5 124✓ ✓ 1.10 ✓

94.8 ✓7.2✓ 1.08 ✓
152.0 69.3 ✓
266.8 126.✓ ✓ 1.09 ✓
336.1

Index Right + Below

356.5 } 70.2 ✓
66.7 } ✓3.4 ✓
185.0 123.6✓ 1.11 ✓
238.4

5.8 ✓3.9 ✓ 1.08 ✓

7.48.10
10 40. ✓
7 ✓ 20. ✓
+✓ +13. ✓
12 ✓ 33. ✓

59.7
176.5 73.4 ✓
249.9 127.3 ✓ 1.04 ✓

1.08 ✓

33

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1911phae.proj..606W

Apr. 26. 1911.

Double Star =
Bu. Cat. 4vvv 2.

P.A. 98° Dist 78" Mags 7.0 7.4.
Δ 14 +47.7
10 29
+2 1v.

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1911phae.proj..606W

Apr. 26 1911

Index Right + Above

7.56.50

266.0 < prec. dis
337.1 71.1 ✓
77.3 Ad. ✓
165.8 159.6 ✓ 0.39 ✓

256.6 92.0 ✓ 0.32 ✓
348.6 71.1 ✓
83.9 167.1 ✓ 0.24 ✓
159.0

Index Left + Below

174.2] 3.8 ✓
248.0 Ad. 1 ✓
346.0 161.9 ✓ 0.34 ✓
74.1

0.34 ✓

166.6 91.4 ✓
258.0
356.4 70.1 ✓
66.5 161.5 ✓ 0.35 ✓

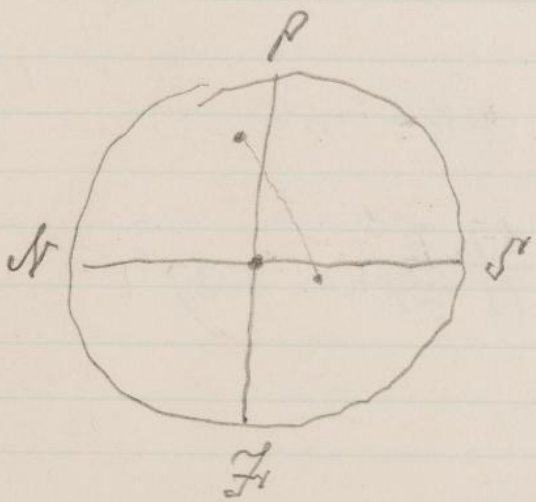
8.2.30
119 20. ✓
7 59 40. ✓
+5 +13. ✓
12 59 53. ✓

0.33 ✓

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1911phae.proj..606W

Apr. 26. 1911.



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1911phae.proj..606W

Apr. 26 1911

Index Left + Below

8.5.10

359.3 < U. prec. + bitridis
65.3 66.0 ✓
192.6 45.0 ✓
237.6 111.0 ✓ 1.39 ✓

10.6 41.0 ✓ 1.44 ✓
51.6 6 5.5 ✓
178.5 106.5 ✓ 1.50 ✓
244.0

Index Right + Born

273.0 61.7 ✓
334.7 46.6 ✓
100.2 102.3 ✓ 1.46 ✓
146.8

1.42 ✓

281.6 44.4 ✓
326.0
89.0 67.7 ✓
156.7 111.1 ✓ 1.37 ✓

8.10.35
15 45 ✓
7 52.
+13.
13 ✓

1.43 ✓

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1911phae.proj...606w

Apr. 26, 1911.

Double Star =
Bu. Cat. 66 V V.
P. A. 73°; Dist. 10," Mags. 6,0, 6,5

13	+0	−1.0
11	9	
~~+2~~	~~+0,~~	
~~+9~~	~~10~~	
2	41	
+9	19	

Abandoned – Not found.

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1911phae.proj..606W

Apr. 26. 1911

Double Star =
Ber. Cat. 7167
P. A. 283°. Dist. 31.″4 Mags. 7.0, 7.2

1	2	+39.0
11	19	
−3	49	
+2	11	

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1911phae.proj...606W

Apr 26 1911

Index Right

8·50·35

170·0
257·3 (prec. dis.
339·4 87.3 ✓
89·0 107.6 ✓
194.9 ✓ +0.28 ✓
16 ✓.1 ✓
158·6 110.2 ✓
268·8 +0.3 ✓ ✓
346·2 91.4 ✓ ✓
202.0
78·0 1 ✓ 2.0 ✓ +0.42 ✓

Index Left

77·8 89.4 ✓
167·2 10 ✓.4 ✓
~~250~~
250·5 194.4
16 ✓.2 ✓ +0.28 ✓
355·9

+0.3 ✓ ✓

68·8 110.2 ✓
179·0 91.7 ✓
257·3 201.9 ✓
349·0 1 ✓ 4.1 ✓ +0.42 ✓

8·56·25
7 0 ✓
4 ✓ 3 30. ✓
+✓ +13. ✓
13 ✓ 3 43. ✓

+0.3 ✓ ✓

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1911phae.proj..606W

Apr. 26. 1911.

Double Star =
Ber. Cat. 7A30.
A. A. 263. Dist. 114" Mags. 7.0, 7.1

16	√ √	+47,√
11	3 4	
√	2 1	
+6	3 9	

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1911phae.proj...606w

Apr. 26 1911

Index left + Above

9.9.35

77.0		
170.0	[prec. dis. 93.0 ✓	
247.9	100.1 ✓	
348.0	193.1 ✓	
	166.9 ✓	+0.2 ✓
71.1	105.9 ✓	+0.2 ✓
177.0	90.5 ✓	
254.5	196.4 ✓	
345.0	168.6 ✓	+0.3 ✓

Index Right + Below

350.2	83.3 ✓	
73.5		
159.0	110.0 ✓	
269.0	193.3 ✓	
	166.7 ✓	+0.2 ✓
337.6	106.9 ✓	+0.2 ✓
84.5	88.4 ✓	
171.2	195.3 ✓	
	164.7 ✓	+0.2 ✓
26		
259.6		+0.2 ✓

9.13.35

23 10.	✓
9 11 35.	✓
tr +13.	✓
14 11 48	✓

W's watch used for Times
watch 13s slow

L. A. R.

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1911phae.proj..606M

Apr. 28. 1911 (Friday)

Double Star =
Bu. Cat. ~~3235~~ 3229.
P.A. 178° Dist 116" Mags 7.0 7.5

~~6 9 +14.5~~

6 2 +24.0
10 10
+4 2

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1911phee.proj...600N

Apr. 28 1911

~~Left~~ Upper Arcs

257.6 } M. dia
345.6 } 44.0 ✓
85.2 74.4 ✓
159.6 162.4 ✓ 0.33 ✓

7.36.40

0.34 ✓

266.3 73.4 ✓
339.7 } 77.7 ✓
79.3 161.1 ✓ 0.36 ✓
~~166.~~
167.0

Lower Right + Below

171.0 } 44.2 ✓
255.8 }
356.0 70.2 ✓ 0.42 ✓
66.2

0.44 ✓

175.5 73.2 ✓
248.7 } 64 ✓
349.4 159.6 ✓ 0.39 ✓
75.8

7.41.20
Δ 0.

0.39 ✓

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1911phae.proj..606M

Apr. 28. 1911.

Double Star =
Bu. Cat. V 303

9	V 9	-17.6
10	26	
+0	27	

Abandoned. Done check.

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1911phae.proj...600W

Apr. 20. 1911.

Double Star =
Ber. Cat. 3311.
P. A. 322° Dist 134" Mags 7.0 7.5

6	16	+V 9.A
10	40	
+4	24	

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1911phae.proj..600W

Apr. 28 1911

Index left + Below

8.4.30

261.5 (S. pol. dis
339.4 77.9 ✓
70.9 100.1 ✓
171.0 172.0 ✓ −0.04 ✓

253.0 97.0 ✓ −0.06 ✓
350.0
82.5 78.0 ✓
160.5 175.0 ✓ −0.09 ✓

Index Right + Above

352.6 Δ 2.1 ✓
74.7
162.0 101.8 ✓
263.8 176.1 ✓ +0.07 ✓

8.10.35

343.6
83.5 99.9 ✓ +0.06 ✓
172.0 Δ 2.3 ✓
254.3 Δ 2.2 ✓
177.8 ✓ +0.04 ✓

0.00 ✓

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1911phae.proj..606W

Apr. 20, 1911.

Double Star =
Bu. Cat. 4001.
P.A. 326° Dist 1.14" Mags 7.0 7.3

$\frac{7}{11}$ $\frac{17}{6}$ +5 6.7

+3 49

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1911phae.proj..606M

Apr. 28 . 1911

Index, Right + Above

8.45.50

174.2	S. for dia		
252.3	78.1 ✓		
345.0	93.9 ✓		
78 9	172.0 ✓	0.1 ✓	✓

164.0			
259.0	95.0 ✓		0.12 ✓
353.0	79.5 ✓		
72.5	174.5 ✓	0.10 ✓	

Index left + Below

82.0			
160.0	78.0 ✓		
254.4	94.6 ✓		
349.0	172.6 ✓	0.14 ✓	

8.52.15

72.0			0.04 ✓
171.4	99.4 ✓		
263.0	79.5 ✓		
342.5	178.9 ✓	0.02 ✓	

0.10 ✓

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

L. P. P.

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1911phae.proj...606W

Nov. 29. 1911. (Saturday).

Double Star =
Bu. Cat. 3229.
P.A. 178° Dist. 116" Mag's 7.0 7.5

6 A +24.0
10 0
+3 - V2

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1911phae.proj..600W

1911.

Apr. 29, (~~Saturday~~)

Index Right 259.0
+ Balcony ~~347.2~~

7:38-10

357.6 (a.m. + bitter dis.
66.2 62.6 ✓
168.8 90.2 ✓
259.6 ~~92.4~~ ✓ 0.39 ✓

0.42 ✓

348.3 87.6 ✓
75.9 62.2 ✓
179.0 ~~150.4~~ ✓ 0.46 ✓
247.2

Index ~~Left~~ + ~~Arbor~~ Arbour

264.2
343.1 78.9 ✓
76.1 94.9 ✓
171.0 173.8 ✓ 0.12 ✓

0.20 ✓

7.43.30

258.0 82.5 ✓
346.5
84.0 77.0 ✓
161.0 ~~165.5~~ ✓ 0.27 ✓

0.31 ✓

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1911phae.proj..606W

Apr. 29. 1911.

Double Star =
Ben. Cat. 5303.
P.A. 273° Dist 21" Mags 6.5 7.5

9 √9 −17.6
10 √√
+0 √6

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1911phae.proj..60CW

Apr. 29 1911

Index Blow

8.14.35

263.0 } Pol. + birth dis.
344.0 } 81.0 ✓
~~87~~
87.6 70.4 ✓
158.0 151.4 0.55 ✓

273.8 60.7 ✓ 0.64 ✓
334.5
82.5 81.6 ✓
~~162.~~ 142.3 ✓ 0.73 ✓
164.1

Index Bow

~~+7.3~~
173.9 81.8 ✓
255.7
3.0 64.9 ✓
67.9 146.7 ✓ 0.64 ✓

8.20.0

181.0 65.0 ✓ 0.66 ✓
246.0
351.0 79.9 ✓
70.9 144.9 ✓ 0.62 ✓

0.65 ✓

W's watch used for Time
Watch 46s fast.

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1911phae.proj..606M

Apr. 29. 1911.

B. + C. 1182.

δ		
	√1	√.√
	√2	√.6
	√3	6.0
	√4	6.2

B 394.

δ		
	49	0.0
	√0	0.0
	√1	0.0
	√2	0.0

Dis. fusp. I. Fr. sh. Cobletto sec.

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1911phae.proj..600W

Apr. 29. 1911.

14			9	9	24	95.0	170.0	
9	10	20.		9	56	87.5	265.0	1
	−2	3.		~~9~~	~~18~~	91.2	0.0 ~~1778~~	
14	8	17.		10	39		176.0	
				11	19		263.5	
				11	45	89.8	174.2	
14								
9	12	17.		12	3	90.2	264.0	2
	−2	3.		12	26	90.0	0.0 177.6	
14	10	14.		12	53		267.8	
				13	19	93.0	174.0	
				13	39	94.7	267.0	
14								
9	14	4.		14	4	93.8	−0.1 172.9	3
	−2	3.		~~14~~	~~32~~		~~270.0~~	
14	12	1		15	12		267.5	
				18	52	87.0	176.0	
14								
9	19	14.		19	22	84.0	263.0	4
	−2	2.		20	01	87.5	+0.2 179.0	
14	17	12.		20	23		263.0	
				~~21~~	~~55~~		~~182.5~~	
				22	18	99.8	167.2	
14								
9	23	10.		22	56	89.5	267.0	
	−2	2.		~~24~~	26	94.6	−0.2 170.5	
14	21	8.		23	58		260.0	
				23				
14	22	20	24	22	98.7	−0.3	171.3	
14	22	48	24	50	97.8	−0.3	270.0	
14	23	24	25	26	94.8	−0.2	172.2	
14	23	53	25	55	95.9	−0.2	267.0	
14	24	28	26	30	96.1	−0.2	171.1	

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1911phae.proj..606M

Apr. 29. 1911.

14 24 53.	9	26	54	96.1	91.0 0.0	267.2
14 25 23		27	24	109.2	90.2 0.0	176.2
14 25 48		27	49	97.0	97.0 −0.3	267.0
14 26 15		27	16	90.2	90.2 +0.1	170.0
14 26 41		28	42			258.2

Limit of visibility.

14	29	16	91.6		173.0
14 29 44	29	28	90.0		264.6
−12 1	29	55	89.2	0.0	176.0
14 27 43.	30	17			264.0

B. + C. 1142.

9	40	0.0
	41	0.0

B. 394.

9	38	0.0
	39	0.0

No variation in light took place in the sat. as the computed time of occultation by the planet was possibly the same as for the eclipse. This remark to be used in connection with Eclipse.

L. A. P.

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1911phae.proj..606W

May 6. 1911. (Saturday).

Double Star =
Ber. Cat. 4 V V 0.
P.A 226° Dist. 9.3" Mags 6.6 7.5

α 13 +35°.4
10 23
+2 10

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1911phae.proj...606M

May 6 (1911)

Index Right + Below

7.35.45

11.7	[M. Jol. + Gold dia	
70.6	√6.9	
183.5	71.√	
255.0	130.4	0.97
4.2		0.92
77.0	72.8	
188.0	62.0	
	134.8	0.88
250.0		

~~Index Left + Below~~

282.1		
339.0	√6.9	
94.0	68.8	
162.8	125.7	1.07

7.39.40

274.4	69.0	1.06
343.4		
100.6	√7.9	
158.5	126.9	1.04

0.99

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1911phae.proj..60(W

May 6. 1911.

Double Star =
Bu. Cat. 4552.
P. A 98° Dist 78" Mags 7.0 7.4

α 14 +47.7
10 52
+2 44

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj...606

May 6 1911

Index Left + Below

7.48.40

183.0
254.5 [Free. dis
350.6 71.5
86.0 95.4
166.9 0.25

172.4 94.6 0.26
267.0
29 71.7
74.6 166.3 0.26

Index Right + Above

97.2 66.8
164.0
262.4 94.1
356.5 160.9 0.36

0.32

7.52.35

82.2 95.8
178.0
274.4 69.1
343.5 164.9 0.29

0.29

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1911phae.proj..606N

May 6. 1911.

B + C. 1182.			A. 394.		
d.	1	13.0	d	1.	00
8	2	13.0	8	2.	00

Re. Jup. III. Phot. R. Y. obs. Albany rec. Compared with single Sat. on prec. side = Sat. I.

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1911phae.proj...606

May 6. 1911.

		Limit of Visibility					
13		8	33	40			113.2
	34	15	34	5	33.1		146.3
		8	34	26	32.1		112.4
13	34	7	34	48	32.6	+2.7	144.5
13	50	49	50	54			seen
	51	7	51	12	60.8	+1.2	101.2
	51	32	51	37	64.5	+1.0	162.0
			51	56			
	52	9	52	14	66.5	+0.9	97.5
	52	23	52	28	68.2	+0.8	164.0
	52	38	52	43	68.2	+0.8	95.8
	53	5	53	10	75.2	+0.6	164.0
	53	23	53	28	75.5	+0.6	88.8
13	53	43	53	48			164.3
			54	6			86.3
13			54	21	76.0		91.0
	54	44	54	43	72.5		167.0
		5	54	59	77.2	+0.5	89.9
13	54	43	55	8			168.4
			55	30	80.3		89.7
13	55	50	55	41	82.2		170.0
		4	55	58	81.2	+0.3	86.8
13	55	46	56	13			168.0
			56	37			169.0
							88.6
13	57	1			80.6		
		4	56	52	82.9		169.2
13	56	57			83.2	+0.3	
			57	11			88.1 87.1
			57	24			173.0

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1911phae.proj..606W

January 6. 1911.

		57	36			84.2	
13	V7	V4 57	47	89.2		174.0	
		-4 57	59	87.7 / 88.8	0.0	84.8	
13	V7	V0 58	12			172.5	
		58	26	88.0		84.2	
13	VA	40 58	36	90.7		172.2	
		-4 58	47	89.4	0.0	83.8	
13	VA	36 58	57			174.5	
		59	9	90.4		83.8	
13	V9	26 59	21	94.1		174.2	
		-4 59	33	92.2	-0.1	82.8	
13	V9	22 59	43			~~177.9~~	176.9
		59	37	94.1		83.2	
		9 00	6	92.3		177.3	
14	0	9 00	18	93.2	-0.1	84.6	
		-4 00	28			176.9	
14	0	8 00	44			83.3	
		00	55	93.7		177.0	
14	1	4 00	6	94.8 / 94.2	-0.2	84.0	
		-4 1	19			180	
14	1	0 1	30			178.8	
		1	~~44~~			~~86.7~~	
		1	52	89.2		84.2	
14	2	10 2	5	94.6		174.0	
		-3 2	16	92.2	-0.1	83.7	1
14	2	7 2	27			178.3	
		2	42	94.9		82.2	
14	3	2 2	54	94.9		177.1	
		-3 3	9	94.9	-0.2	82.0	
14	3	59					

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1911phae.proj...606M

May 6. 1911.

	9	3	21		176.9	2
		3	42	97.9	80.3	
14 4 2		3	54	101.1	178.2	
-3		4	10	99.5	-0.4	~~79.9~~ 80.9	3
14 3 59.		4	24		182.0	
		4	35		78.1	
14 4 52.		4	45	99.7	177.8	
-3		4	57	98.9	78.9	4
14 4 49.		5	10	99.3	-0.4	177.8	
		5	22	100.2	78.8	
14 5 46.		5	39	98.1	179.0	
-3		5	53	99.2	-0.4	81.1	✓
14 5 41.		6	2		179.2	
		6	15		79.5	
14 6 40.		6	29	97.5	177.0	
-3		6	51	96.4	81.9	6
14 6 37.		7	3	97.0	-0.3	178.3	
		7	23	98.8	80.0	
14 7 46.		7	38	98.8	178.8	
-3		7	54	98.8	-0.3	80.0	7
14 7 43.		8	8		178.8	
		10	49	99.3	80.0	
14 11 9.		10	59	99.2	179.3	8
-2		11	18	99.2	-0.4	78.9	
14 11 7.		11	31		178.1	

Compared with single sat. on
prec. side = sat. I.

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1911phae.proj..606W

May 6, 1911.

	B + C. 11h 2.		B. 394.		
9	36	58.0	9	37	0.0
	37	58.0		38	0.0

Eclipse not considered as of first class value. Sat. rings. Nearly close to Jupiter so that there was delay in getting early observations.

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1911phae.proj..606

May 6. 1911

Double Star =
Ben Cat. 7048.

Pct. 210°	Dist. 90.″	mags. 6.5, 7.2
14	49	0.0
12	28	
−2	21	
+9	39	

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1911phae.proj..600W

May 6 1911

Index left + Below

	262.0		
9.21.15	355.4	n. fol. + Extr. dis.	
	98.0	93.4	
	162.9	64.9	
		1 ± 8.3	0.41
	277.5	63.5	0.44
	341.0	± 8.5	
	85.5	1 ± 2.0	0.54
	174.0		

Index Right + ~~Above~~

178.0	± 3.2	
261.2		
11.5	± 8.6	
70.1	141.4	0.74
189.5	± 9.1	0.74
9.26.5 248.6		
357.9	± 3.1	
81.0	1 ± 2.2	0.73

W's Watch used for times 0.61

Watch 20^s slow.

L. P. P.

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1911phae.proj...606

May 2. 1911. (Tuesday).

B. + C. 1142.			B. 394.		
7.	4	24.v	7.	4	0.5
	v	24.v		v	0.0

Reap. Jap. I. Phot. R. H. obs. Tebbutt rec

7.52

Sky trickly cloudy and rapidly, becoming worse. Tried for half an hour before eclipse, to find Jupiter, but Jupiter not once seen, on account of clouds. Clouds now somewhat rapidly becoming thicker. Eclipse abandoned.

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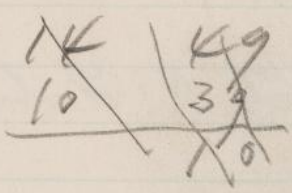
1911phae.proj..600W

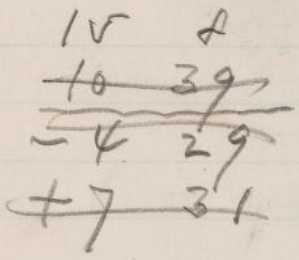
May 10. 1911. (Wednesday).

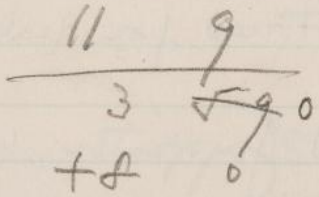
Double Star =

Bu. Cat. ~~7048.~~ 7167.

P.A 284.° Dist 31." Mags. 7.0 7.2







1911phae.proj...606W

May 10 1911

Index Right

7.44.20

89.7
168.5 (tot. dis
263.5 78.8 ✓
354.5 91.0 ✓
169.8 ✓ 0.19 ✓

82.3
171.0 94.7 ✓ 0.16 ✓
269.8 78.2 ✓
348.0 172.9 ✓ 0.13 ✓

Index Left

5.1
75.5 70.4 ✓
172.5 94.1 ✓
266.6 164.5 ✓ 0.29 ✓

349.9 96.5 ✓ 0.21 ✓
86.4
179.5 76.9 ✓
256.4 173.4 ✓ 0.13 ✓

7.49.45
94 ✓ ✓
47 2. ✓
+✓ 0. ✓
12 47 2. ✓

0.18 ✓

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1911phae.proj..600W

May 10. 1911.

Double Star =
Bu. Cat. 7042.
P.A. 210° Dist. 8.8" Mags 6.5 7.2

14	49	0.0
11	24	
−3	2√	
+8	3√	

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1911phae.proj...606

May 10 1911

Index Right + Above

8.3.20

2.7 < n. fol. + both dis
77.4 74.7
189.5 61.8
251.3 136.5 0.84

9.0 63.8 0.79
72.8 74.0
182.4 141.8 0.74
260.4

Index Left + Below

268.1 84.1
352.2
97.0 68.4 / 152 0.53
165.4

275.0 70.9 0.50
345.9
87.4 84.1 / 150.0 0.44
171.5

8.18.10
11 30.5
4 5 45.
+5 0.
13 5 45.

0.64

1911phae.proj..600W

May 10. 1911.

Double Star =
Bu. Cat. 3311
P.A. 322° Dist 1.34" Mags 7.0 7.5

6 16 +V 9.0
11 44
+V 28

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1911phae.proj...606W

May 10 1911

Index Right + Above

8.19.30

182.0
257.8 } S. fol. dis.
351.4 75.8 ✓
87.0 96.6 ✓
171.4 ✓ -0.16 ✓

173.7 96.4 ✓ -0.14 ✓
270.1
1.6 77.4 ✓
79.0 173.8 ✓ -0.12 ✓

Index Left + Below

88.1 90 ✓
168.6 ✓
260.2 92.2
357.4 177.7 ✓ -0.04 ✓

81.5 98.1 ✓ -0.02 ✓
179.6
268.9 90 21 ✓
351.0 180 02 ✓
179.8 ✓ 0.00 ✓

-0.02 ✓

8.23.55
43 25 ✓
21 42. ✓
+ 0 ✓
13 21 42. ✓

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1911phae.proj..606W

May 10. 1911.

Double Star =
Bu. Cat. 4001
P. A. 326° Dist 114" Mags 7.0 7.3

7 17 +V 6.7
12 0
4 43

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1911phae.proj...606W

May 10 1911

Index Left + Below

8.39.50

90.4 < S. for. dis.
172.0 Δ1.6 ✓
264.4 92.6 ✓
357.0 174.2 ✓ −0.11 ✓

79.3 99. ✓ ✓ −0.06 ✓
178.8 Δ0.3 ✓
271.6 179.4 ✓ −0.00 ✓
351.9

Index Right + Above

358.0 Δ0.0 ✓
83.0
172.5 90.0 ✓
Δ0.0 ✓
268.0 179.0 ✓ +0.01 ✓

8.44.35
Δ4 20. ✓
Δ 42 12. ✓
+0 0. ✓
13 42 12. ✓

350.6 97.4 ✓ −0.01 ✓
88.0
180.0 Δ1.2 ✓
261.2 178.6 ✓ −0.03 ✓

−0.04 ✓

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1911phae.proj..600W

May 10. 1911.

Double Star =
Bu. Cat. ~~3692.~~ 3962
P.A. 81° Dist 31'' Mags 6.5 6.7

7 14 +73.3
12 19
+5 5

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1911phae.proj...606

May 10 1911

Index Right + ~~Below~~

8.55.25

266.0 < Prec dis
350.4 Δ 4.4 ✓
91.6 7 2.6 ✓
164.2 1 7.0 ✓ 0.44 ✓

273.5 7 1.5 ✓ 0.43 ✓
345.0 Δ 6.6 ✓
86.6 1 5 8.1 ✓ 0.42 ✓
173.2

Index ~~Left + Below~~

177.6 Δ 3.4 ✓
261.0
2.1 7 2.9 ✓
75.0 1 6.3 ✓ 0.45 ✓

183.4 7 9.9 ✓ 0.44 ✓
254.3
355.3 Δ 7.0 ✓
82.3 1 7.9 ✓ 0.42 ✓

9.05
11 ✓ - 2 ✓. ✓
Δ ✓ 7 42. ✓
+ ✓ 0. ✓
13 ✓ 7 42. ✓

0.44 ✓

W's watch used for mine
Watch 0° fast.

L. P. P.

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1911phae.proj..600

May 11. 1911. (Thursday).

Double Star =
Bu. Cat. ~~+4 18.~~ 4705, A.D
P.A. 24 1° Dist 93". Mags 6.5 8.0

A	34	+19.9
11	5.	
+2	3.1	
11	33	

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1911phae.proj..606W

May 11 1911

Index Left + Below

8.5.15

185.4
250.7 (Spec. dis
5.7 65.3"
77.2 71.7" / 136.4" 0.44"

183.5 64.8" 0.90"
248.3
6.7 65.8 / 130.6 0.97"
72.5

Index Right + Above

90.5
169.1 78.6"
275.0 70.8" / 149.6" 0.60"
345.0

96.0 0.62"

8.11.5

166.0 70.0"
271.0 77.2" / 147.2" 0.63"
348.2

0.76"

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1911phae.proj..600

May 11. 1911.

Double Star =
Bru. Cat. 4705 A. C.

P. A. 157°, Dist. 4.5" mags. 6.5, 7.0

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1911phae.proj..606

May 11 1911

Under Right + Below

8/16/30

35.5			
~~86~~	< N. proc + 6th dis.		
85.8	94.3		
181.9	76.5		
258.4	170.8	0.17	
1.5			0.20
76.2	74.7		
173.0	93.3	0.23	
266.3	168.0		

Under Left + Above

8/20/45

264.3			
358.2	93.9		
88.6	78.4		
167.0	172.3	0.14	
268.2			0.12
346.2	78.0		
80.1	96.9		
177.0	174.9	0.09	
			0.16

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1911phae.proj..60W

May 11. 1911.

Double Star =
Bu. Cat. 4715 A C.
P.A. 342°, Dist. 63", Mags. 6.5, 7.0

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1911phae.proj...606

May 11 1911

8.23.40

Index Left + Above

188.2
250.6 } S. dis.
11.9 62.4
67.5 √5.6 / 118.0 1.24

195.0 √1.4 1.33
246.4
9.5 √8.√ / 109.9 1.42
68.0

Index Right + Below

99.0 63.0
162.0 √9.4 / 122.4 1.14
280.0
339.4

8.33.20
√7 0

1018 √8.√ 1.18
160.3 60.8
278.4 / 119.3 1.21
339.2

1.26

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1911phae.proj..606W

May 11. 1911.

Double Star =
Bu. Cat. 4710 A D.

A. A. 44° Dist. 2".2 Mags. 6.5, 8.0

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1911phae.proj...606

May 11 1911

Cudex Right + ~~Above~~

8.36.25

294.9
323.4
109.8
150.0

S.P rec. + bitr dis.
26.✓
40.2✓
66.7✓
2.✓✓✓

291.2
327.2
113.8
144.8

36.0✓
31.0✓
67.0✓
2.61✓
2.✓✓✓

Index Left + Below

204.8
234.5
240
57.8

29.7✓
33.8✓
63.5✓
2.73✓

8.42.10

201.0
235.6
25.0
53.4

34.6✓
28.4✓
63.0✓
2.7✓✓✓
2.7✓
2.66✓

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1911phae.proj..606M

May 11. 1911.

Double Star =
Bu. Cat. 3962.
P.A. 81° Dist 31" Mags 6.5 6.7

7 14 +73.3
12 v3
+v 39

Clouds in This region.
Clouds steadily rising and
overspreading the sky.

W's watch used for times
Watch 4s fast.

L. P. R.

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1911phae.proj...606

May 13. 1911. (Saturday.)

Double Star =
Bu. Cat. 3311.
P.A. 322° Dist 134" Mags 7.0 7.5

6 16 +√9.8
11 √0
+√ 3 4

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1911phae.proj..600M

May 13 1911

Index Right + Above

348.6
86.1 (S. to R. dia
177.8 97.5
263.0 Δ V. 2
Δ 2.7
177.3 +0.05

357.7
81.0 Δ V. 3 +0.04
172.4 96.1
268.5 Δ 1.5 +0.03
Δ 6.6

Index Left + Below

~~260.0~~ 262.5
~~357.5~~ 0.5 98.0
~~87.0~~ 91.0 Δ 7.5
~~168.0~~ 169.5 166.5 −0.25

~~271.9~~ 272.9
~~348.9~~ 349.5 96.6 −0.20
~~81.5~~ 81.0
~~174.0~~ 175.8 Δ 9.4 171.4 −0.16

−0.08

~~8.17.30~~ 8.22.25

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1911phae.proj..606W

May 13. 1911.

Double Star =
Ben Cat. 4901.
P. A. 326° Dist 1.14" mags 7.0 7.3

$\frac{7}{12}$ $\frac{17}{6}$ +6.7

+4 49

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1911phae.proj..600W

May 13 1911

Index Left + Below

8.30.15

84.8 } S. fol. dia
173.9 } 89.1
275.0
345.7 70.7
159.2 −0.32

89.2 89.1 −0.32
168.3
265.0 47.4
352.4 136.5 −0.25

Index Right + Above

355.2
86.3 91.1
176.0
261.5 45.5
136.6 −0.06

357.5 45.5 −0.02
8.36.20 83.0
181.0 95.0
266.0 140.5
179.5 +0.01

−0.17

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1911phae.proj...600W

May 13. 1911.

Double Star =
Ber. Cat. 3962.
P. A. 81° Dist. 31" Mags 6.5 6.7

7 14 +73.3
12 31
+V 17

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj..600W

May 13 1911

Index Right

8.53.50

265.9 < prac. dis.
351.9 Δ 6.0
93.8 64.9
162.7 154.9 0.48

273.0 73.5 0.43
346.5 Δ 6.5
84.5 160.0 0.32
171.0

Index Left

177.6 Δ 4.9
262.5
2.2 73.2
76.0 154.7 0.41

8.59.10

181.8 73.2 0.45
255.0
357.5 Δ 1.4
78.9 154.6 0.49

0.44

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1911phae.proj...600W

May 13. 1911.

Double Star =
= Bu. Cat. 4949.

P. A. 26°, Dist. 2v." mags. 7.0, 7.2

9	v	+62.0
2	v6	
+3	v1	

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1911phae.proj..600W

May, 13, 1911.

Under Left + Above

9.19.5

180.4 } S. prae. dis.
257.6 } 77.2
355.0
80.6 ~~77.6~~ 162.4 0.33

177.4 ~~86.1~~
263.5 ~~77.0~~ 163.1 0.32
0.0
77.0

Under Right + Below

92.4
167.6 75.2
267.0 ~~80.9~~
347.9 ~~156.1~~ 0.46

9.26.45

86.8
174.5 87.7 0.32
262.9 ~~83.3~~ 171.0 0.17
346.52

0.32

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1911phae.proj...606

May 13. 1911.

Double Star =
Bu. Cat. 4286.
P. A. 43°. Dist. 77." Mags. 6.3, 7.0

7 4v +31.9
13 16
+v 31

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1911phae.proj..60CM

May 13 1911

Judy Right + Above

9.46.0

277.0 \
341.6 / prec. dis
64.6
91.8
165.4 73.6
137.2 0.81

272.4 72.6 0.82
345.0
99.7 \/ 8.1
157.8 130.7 0.96

Judy Left + Below

190.2 \/ 9.2
249.4
359.0 +1 \/
78.5 140.7 0.76

179.2
258.0 78.8 0.79

9.52.0
98 0

9.1 \/ 8.9
68.0 137.7 0.82

0.84

W's watch used for times
Watch 10s fast.

L. P. P.

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1911phae.proj...600W

May 13. 1911

		B. fC. 1182.		B. 394.
10	38	4.5	10 39	0.0
	39	4.5	40	0.0

(This was Set II – Not Ed. Sat. – See note at end)

Dis. Sat. III K (see remark at end of obs.)

H. obs. Lebbatts rec. Compared with Set. I.

10	54	46	99.3	80.8
	55	3	104.4	180.1
	55	20	104.4	75.7
	56	14	97.5	180.5
	56	31	96.3	83.0
	56	43	100.4	179.3
	56	59	99.3	78.5
	57	15	96.4	177.8
	57	31	94.4	81.0
	57	46	90.4	175.8
	58	00	92.1	85.0
	58	18	94.9	177.1
	58	48	97.6	82.7
	59	2	100.5	179.8
	59	19	97.4	79.3
	59	34	93.4	177.1
	59	59	94.9	83.3
11	00	16	102.4	178.2
	00	37	101.2	75.8
	00	51	94.0	177.0
	1	4	95.1	83.0
	1	16		178.1

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1911phae.proj..60GW

May 13. 1911.

Omitted by mistake

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1911phae.proj...600W

May 13. 1911.

11	1	46	80.2
	2	6	176.0
	2	42	77.5
	2	56	179.9
	3	17	80.1
	3	34	178.0
	3	50	81.1
	3	59	180.0
	4	17	80.2
	4	41	179.3
	4	58	78.8
	5	12	179.0
	5	32	80.2
	5	45	178.9
	7	6	83.5
	7	20	176.8
	7	41	79.9
	8	5	178.1
	12	2	82.0
	12	16	181.5
	12	32	79.0
	12	45	178.5
	13	25	80.9
	13	42	181.5
	14	2	78.7
	14	17	180.0
	14	51	80.3
	15	33	182.5

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1911phae.proj..606W

May 13. 1911.

Omitted by mistake.

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1911phae.proj..606

May 13. 1911.

11	15	57	81.0
	16	23	179.8
	17	00	78.1
	17	23	181.0
	17	45	77.9
	18	16	178.0
	18	50	78.5
	19	17	178.0
	19	48	78.6
	20	21	180.0
	20	59	82.8
	21	25	179.0
	21	47	84.2
	22	10	178.2
	22	37	79.9
	~~23~~	~~4~~	~~185.0~~
	23	12	180.8
	23	37	80.2
	23	57	177.2
	24	16	78.7
	24	32	177.0
	24	50	81.7
	25	23	179.0
	25		

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1911phae.proj..606W

May 13. 1911.

B. + C. 1182.			B. 394.		
11	35	4.9	11	36	0.0

The preceding eclipse observations are of no value. ~~Sat.~~ Sat. III was not seen even with power 270, — being so very close to the planet probably.

The observations were those of Sat. II as compared with Sat. I, as was suspected at the time. The readings show no change up to the theoret. time of Dis. of Sat III, but sat II was taken merely as a matter of precaution last it might be Sat. III.

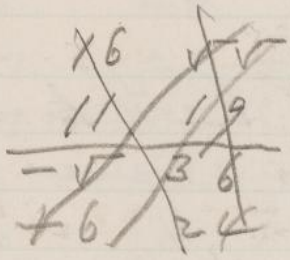
L. P. P.

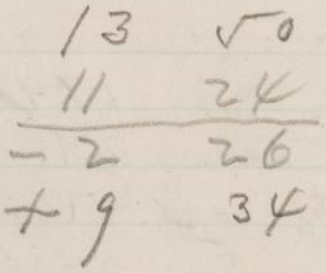
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1911phae.proj...606

May 15. 1911. (Monday).

Double Star =
Bu. Cat. ~~7h30m~~ 66 V V.





Cloudy. Abandoned.

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1911phae.proj..606W

May 15. 1911.

B. + C. 1182. B. 394.

£	51	48.v	£	52	0.0
	52	48.v		53	0.0

Re. Jups. II. Phot. R. W. obs. Tebbutt rec. Compared with sat. on same fol. side = = Sat. III.

Limit of Visibility

9	22	27	69.1 v		174.9
14 23 3. v	22	49			244.0
+15. v	23	19	69.0 v		172.1
14 23 18.	23	36	69.0 v	+0.8 v	241.1

14 31 15. v 9	30	59	~~60.1~~ 59.1 v	+1.2 v	178.9
31 35. v	31	19	60.5 v	+1.2 v	238.0
32 15. v	31	59	68.4 v	+0.8 v	177.5
32 50. v	32	34	76.9 v	+0.7 v	245.9
33 7 v	32	51	75.2 v	+0.6 v	174.0
33 23. v	33	7	76.2 v	+0.5 v	249.2
33 41. v	33	25	77.2 v	+0.5 v	173.0
33 57. v	33	41			250.2
~~33~~	~~59~~				
35 0 v	34	12	79.4 v		172.6
+16. v			72.4 v		
35 16. v	34	28	75.9 v	+0.5 v	252.0

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1911phae.proj..600N

May 15. 1911.

9	~~34~~	~~53~~			~~17~~	
	35	27			175.1	
	35	53			~~247.5~~	
	~~36~~	8			~~17~~	
	36	26			178.2	
14 36 2.✓	36	48	69.7✓		247.9	2
+16.	37	21	72.8 / 72.8✓	+0.7✓	176.2	
14 36 18.✓	37	35			252.0	
	37	52			177.0	
14 38 24.✓	38	6	72.2✓		249.2	3
+17.	38	40	69.3 / 70.8✓	+0.7✓	177.0	
14 38 41✓	38	59			246.3	
	39	19	66.6✓		178.9	
14 39 47.✓	39	43	67.8✓		245.5	4
+17.	39	55	67.2✓	+0.9✓	177.2	
14 40 4.✓	40	10			245.0	
	40	29	69.3✓		178.7	
14 41 15.✓	41	6	69.2✓		248.0	
+17.	~~41~~	~~19~~	69.2✓	+0.8✓	~~176~~	
14 41 32.✓	41	36			177.9	✓
	41	49			~~246.1~~ 247.1	
	42	20	68.9✓		178.0	
14 42 50.✓	42	34	68.2✓		246.9	
+17.✓	43	6	68.6✓	+0.8✓	178.8	6
14 43 7.✓	43	22			~~245.5~~ 247.0	
	43	39	64.0✓		178.3	
14 44 33.✓	44	17	66.3✓		242.3	
+17.✓	~~44~~	~~38~~	66.6✓	+0.9✓		7
14 44 50.✓	44	51			178.0	
	45	24			244.3	

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1911phae.proj..606W

May 15 1911

Reaf. Jupe. I. Phot. R. G. obs. Tabletto rec.

Compared with Sat. III probably.

For meets. see pp. 91, 92.

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1911phae.proj...606M

May 15. 1911.

14 h 4 m (9	53	47	h 6.9	+1.3	183.9	
h 4 49.	54	30	h h .6	+1.4	240.8	
h h 8.	54	49	62.8	+1.1	185.2	
h h 24.	55	5	68.2	+0.8	248.0	
h h 39.	55	20	71.2	+0.7	179.8	
h h h.6	55	37	73.4	+0.6	251.0	
h6 1h.	55	56	73.4	+0.6	177.6	
h6 44.	56	25	73.h	+0.6	251.0	
h7 1.	56	42	79.0	+0.4	177.5	
h7 14.	56	55			256.5	
	57	14			178.0	
14 57 38.	57	31	72.7		250.7	I
+19.	57	45	77.h		174.0	
14 h7 h7	58	2	7h.1	+0.6	251.5	
	58	28			174.6	
14 hf h2.	58	45	74.9		249.5	
+19.	59	1	73.0	+0.6	175.0	2
14 h9 11.	59	16	74.0		248.0	
9	59	32				
10	00	9			178.0	
1h 1 6.	1	1	73.0		251.0	
+19.	1	24.	73.4	+0.6	173.8	3
1h 1 2h.	1	52	73.2		247.2	
	2	19			175.0	
1h 2 h2.	2	46	76.2		251.2	
+20.	3	6	7h.1	+0.6	173-0	4
1h 3 12.	3	19	7h.6		248.1	
	3	38			174.4	
1h 4 3	3	55	7h.h		249.9	
+20.	4	10	7h.8	+0.h	177.0	
1h 4 23.						

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1911phae.proj..606W

May 15 1911

	10	4.	29			253.0	5
		4	48			176.5	
IV	V	26.	5	26	77.4	253.9	
		+20.	5	38	73.9	174.3	6
IV	V	46	5	51	75.6	+0.6 248.2	
			6	12	77.1	172.0	
IV	6	40.	6	29	76.6	249.1	
		+20.	6	51	77.8	+0.V 173.2	7
IV	7	0.	7	6		251.8	
			7	20	75.1	173.0	
IV	7	40.	7	35	71.1	248.1	
		+20.	7	51	73.1	+0.6 176.1	8
IV	8	8.	8	28		~~255.5~~	
			8.	28		247.2	

B.D.C. 1182.

10	IV	39.0	
	16	39.0	

B. 394.

10	16	00
	17	00

L. P. P.

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1911phae.proj..606M

May 16. 1911. (Tuesday).

7 30 Sky pretty Cloudy

8 N " " "

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1911phae.proj..606W

May 17. 1911. (Wednesday).

Double Star =
= Bu. Cat. 66 vv.
P.A. 73° Dist. 10" mag's 6.0 · 6.5

13 v0 −1.0
11 17
−2 33
+9 27
11 37
−2 13
+9 47

Abandoned. Not found.

Bu. 704A.
P.A. 210° Dist. 88" mag's 6.5 7.2
14 49 0,0
11 v7
−2 v2
+9 4

1911phae.proj...606N

May 17 1911

Index Right + Above

8.10.0

359.0 } w. fp. + brtr dia
82.0 } 23.0 ✓
189.4 60.4 ✓
249.8 143.4 ✓ 0.71 ✓

11.0 62.0 ✓ 0.70 ✓
73.0 } 62.3 ✓
179.6 } 144.3 ✓ 0.69 ✓
261.9

Index ~~Left~~ + Below

269.5 } 60.2 ✓
349.7 } 66.0 ✓
98.0 } 146.2 ✓ 0.65 ✓
164.0

0.60 ✓

278.5 65.4 ✓
343.9
85.3 } 65.7 ✓
171.0 } 131.1 ✓ 0.65 ✓

8.15.5
25 5.1 ✓
+ 12 32.1 ✓

0.65 ✓

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1911phae.proj..600W

May 17. 1916.

Double Star =
Bec. Cat. 66 V V.

13	√0	−1,0
12	21	
−1	29	
+10	31	

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

L. P. A.

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1911phae.proj...606W

May 12. 1911. (Thursday).

Double Star =
Bec. Cat. 7 D 30.
P.A. 263° Dist. .114" Mags 7.0 7.1

16	VV	+47.V
11	3V	
V.	20	
+6	40	

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1911phae.proj..606W

May. 18 1911

Index Right + Below

7.55.20

271.0 [7 fol. dio
346.5 7 v.v
85.6 29.4
175.0 164.9 0.29

265.8 90.2 0.22
356.0 82.0
87.5 172.2 0.15
169.5

Index Left + ~~Above~~ Above

180.6
260.4 79.8
353.6 94.4
88.0 174.2 0.11

~~E~~

172.0 90.0 0.14
267.0
1.8 76.2
78.0 171.2 0.17

7.59.45
11 v v.
7 v 7 32.
+v -34. v
1256 v8.

0.12

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1911phae.proj...606W

May 12. 1911.

Double Star =
Bu. Cat. 7344.
P.A. 86° Dist. 15" Mags 6.8 7.3

15	34	+36.6
12	5	
−3	29	
+4	31	

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1911phae.proj..606M

May 18 1911

Under Left

8.9.10

83.7 (prec. dist
172.0 88.3
263.1 92.0
355.1 180.3 +0.01
179.7

85.0
175.6 90.6 +0.04
262.5 93.0
355.5 183.6
Under Right 176.4 +0.07

352.7
86.9 94.2
173.5 91.3
264.8 185.5
174.5 +0.10

354.8 89.7 +0.12
~~85.0~~ 84.5
171.0 88.4
269.4 182.1 +0.15
171.9

+0.08

8.14.20
2330.
8 11 45.
+5 -34.
13 11 11

1911phae..proj...600N

May 18, 1911.

Double Star =
Bu. Cat. 4115.
PA 111° Dist 113" Mags 6.4 7.3

17	37	+31.4
12	20	
−5	17	
+6	43	

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1911phae.proj..606W

May 18 1911

Index Right + Below

8.25.35

7.5	(Prec. + both dis.		
73.5	66.0		
197.0	47.0		
244.0	113.0	1.3√	
18.3	45.2		1.42
63.5			
190.0	63.3		
253.3	107.5	1.4A	

Index left + Above

276.5	66.√		
343.0			
105.0	49.A		
154.8	116.3	1.27	
286.5	49.1		1.2A
335.6			
94.8	67.1		
161.9	116.2	1.2A	

8.30.45
√6 20. √
A 2A 10. √
+√ −34. √
13 27 36

1.3√

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1911phae.proj..600N

May 18. 1911.

Double Star =
Bu. Cat. A29 V.
P.A. 37° Dist. 58" Mags 7.0 7.1

17	√6	+62.6
12	3√	
−√	21	
+6	39	

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1911phae.proj..60W

May 18 1911

8·46·45

Index Left + Above

855 } S. prec. dis
169·0 } +3.√

262·1 96.4
358·5 179.9 0.00

80·0 102.0 +0.12
182·0
264·0 91.√
355·5 193.√ 166.√ +0.2√

Index Right + Below

357·6 +4.4
82·0
170·2 100.4
270·6 124.8 +0.09
17√.2

347·5 100.√ +0.12
88·0
174·0 94.0
268·0 194.√ 16√.√ +0.27

+0.1√

8·53·35
100 20.√
+√0 10.√
+√ -34.√
13 49 36√

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1911phae.proj...600W

May 18, 1911.

Double Star =
Bu. Cat. #329.
P. A. 285° Dist 21" Mag's 6.8 7.3

17 h 9 +6 K. 2
12 h 7
5 2
+6 4

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1911phae.proj..606W

May 18 1911

Under Right + Above

267.5 S. Jol. dis

9.2.20 351.6 Δ4.1

87.2 Δ6.3

1735 170.4 0.18

267.7 Δ2.3 0.24

349.0

88.5 Δ1.2

169.7 163.5 0.31

Under Left + Below

179.2 78.5

257.7

355.0 Δ7.2

82.2 165.7 0.27

0.31

178.1 Δ1.4

~~2~~59.5

358.0 Δ0.2

78.2 161.6 0.35

0.24

9.8.25

10 45.

9 22.

+ -34.

14 4 48

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1911phae.proj...600M

May 12. 1911.

Double Star =
Ber. Cat. A 3 V F
P.A. 22° Dist. 38". Mags 6.8 7.3

10A	1	+V 6.4 R
12	26	
−V	3V	
+6	2V	

Abandoned - not easily found.

W's watch used for times
Watch 34^s fast.

L. P. P.

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1911phae.proj..60CW

May 20. 1911. (Saturday).

Double Star =
Bu. Cat. #11V.
RA. 111° Dist 113" Mags 6.4 7.3

17	37	+31,4
11	44	
-5	49	
+6	11	

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1911phee.proj...6009

May 20 1911

Index Left + Above

8.5.20

279.2 (prec. dis
339.9 60.7
105.5 48.7
154.2 109.4 1.43

285.2 48.8 1.44
334.0 59.5
100.1 108.3 1.46
159.6

Index Right + Below

195.9 46.6
242.5 62.4
9.1 109.0 1.44
71.5

R.

189.4 60.3 1.46
249.7
17.0 47.0 1.49
64.0 107.0

8.10.50
16 10.
A A V.
+V -34.
13 7 26.

1.45

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1911phae.proj..60CW

May 20, 1911.

Double Star =
Ber. Cat. A3√4. A + B.C.
P.A. 22° Dist. 38". mag's 6.8 7.3

1A	1	+√6.4
12	23	
−√	3A	
+6	2−	

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1911phae.proj...606

May 20 1911

Index Right + Below

8.23.5

334.0 (s. prec. dis.
83.1 Δ 9.1 ✓
179.1 Δ 0.6 ✓
259.7 169.7 ✓ 0.20 ✓

4.1 76.4 ✓ 0.17 ✓
80.5 9 ✓.9 ✓
1725 17 2.3 ✓ 0.14 ✓
268.4

Index left + Above

272.5 72.1 ✓
344.6 97.9 ✓
79.2 17 0.0 ✓ 0.19 ✓
177.1

0.27 ✓

266.6 Δ 8. ✓ ✓
355.1
92.9 73.3 ✓ 0.3 ✓ ✓
166.2 161.8

8.28.35
✓140. ✓
Δ 25 ✓0. ✓
+✓ -34. ✓
13 25 ✓ 11.

0.22 ✓

Compound light of BC used in above reading, although C is fr. than B. – both components seem, however, at equality time.

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1911phae.proj..606W

May 20. 1911.

Double Star =
Bru. Cat. 4646.

P. A. 319° Dist. 14½" Mags 6.6 7.4

1h	30	+38A
12	48	
−5	42	
+6	18	

Abandoned,

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1911phae.proj...606

May 20 1911

Double Star =
Ber. Cat. 7430.
P.A. 263° Dist. 114" Mags 7.0 7.1

16	rv	+47.v
13	14	
−3	3.7	
+4	2.3	

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1911phae.proj..606W

May. 20 1911

Index left

9.11.50

84.3	< prec. dia.	
172.0	87.7 ✓	
259.9	104.7	
4.6	192.4 ✓	
	167.6 ✓	+0.2 ✓
75.6	112.9 ✓	+0.26 ✓
188.5	81.2 ✓	
267.5	194.1 ✓	+0.2 ✓
348.7	166.9 ✓	

Index Right

357.5	83. ✓	
81.0		
169.5	104.0 ✓	
273.5	187. ✓	
	172. ✓	+0.1 ✓
347.0	102.6 ✓	+0.16 ✓
89.6		
174.5	87. ✓	
262.0	190.1 ✓	+0.19 ✓
	169.9 ✓	

9.15.50

27 40. ✓

9 13 ✓0. ✓

+✓ -39. ✓

14 13 01. ✓

+0.21 ✓

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1911phae.proj...606

May 20, 1911.

Double Star =
Bu. Cat. 7048.
P.A. 210° Dist. 88" Mags 8.5 7.2

14	44	0,0
13	26	
−1	21	
+10	39	

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1911phae.proj..606W

May 20 1911

9.32.15

Index left + Below

275.7 } n. fol. dis.
349.0 } 3.3
102.0
159.5 57.5 / 134.2 0.96

282.0 56.2 0.42
338.8
85.2 87.2 / 144.6 0.60
173.0

Index Right + Above

174.2
264.1 89.9
5.0 65.5
70.5 N 5.4 0.47

188.0 65.0 0.50
253.0
355.6 86.2 / 51.2 0.54
82.4 N

0.66

9.38.15
70 30.
9 35 15
+5 -39.
14 34 36.

W's watch used for times
Watch 39s fast.

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1911phae.proj...600

May 20. 1911

Double Star =
Bu. Cat. V V 37).

10	38	+46.7
13	V 3	
+3	1 V	

abandoned.
Thick fog coming in.
No Stars Visible.

L. P. P.

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1911phae.proj..606W

May 22. 1911. (Monday)

B. & C. 1182			B. 394.		
11	11	32.7	11	12	0.0
	12	32.6		13	0.0

Ref. Sup. I. Plat. R. A. & Dec. Tablets used, Compared with reseau of two sets on fol. side = Cat. III,

Limit of Visibility

~~11h~~	~~34m~~	~~32s~~			~~193.2~~
	~~35~~	~~2~~			~~225.9~~
(11	35	45			205.9
16 36 14.v	36	6	20.2v		226.1
+30.v	36	23	21.3v	+3.7v	205.8
16 36 44.v	36	43	20.8v		227.1

16h 46m 26.v (11	45	55			seen
46 39.v	46	8	33.0v	+2.6v	198.5
46 53.v	46	22	41.5v	+2.1v	231.5
47 7.v	46	36	56.0v	+1.4v	190.0
47 20.v	46	49	67.3v	+0.9v	246.0
47 37.v	47	6	71.3.v	+0.7v	178.7
16 48 2.v	47	31	68.8v	+0.8v	250.0

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1911phae.proj...606

May 22. 1911.

16h 48m 28.11	47	57	67.9	+0.9	181.2	
48 52.	48	21	69.9	+0.8	249.1	
49 6.	48	35	71.8	+0.7	179.2	
49 18.	48	47	70.2	+0.8	251.0	
49 37.	49	6	72.2	+0.7	180.8	
49 50.	49	19			253.0	
	49	36			176.9	
49 56	49	50	74.6		251.5	
+31	50	2	77.9		174.1	1
50 27			76.2	+0.5		
	50	16			252.0	
	50	32	75.3		176.7	
51 1.	50	49	66.4		252.0	
+31.	51	2	70.8	+0.7	180.8	2
51 32.	51	41			247.2	
	51	58	74.1		178.9	
52 18.	52	11	73.8		253.0	
+32.	52	24	74.0	+0.6	173.8	3
52 50.	52	41			~~244.6~~	247.6
	53	4	69.7		180.2	
53 24.	53	17	76.2		249.9	
+32.	53	31	73.0	+0.7	174.0	4
53 56.	53	45			250.2	
	54	4	70.7		179.3	
54 33.	54	20	73.2		250.0	
+32.	54	41	72.0	+0.7	180.3	5
54 [illegible]	55	6			253.5	
	55	22	72.1		178.4	
55 48.	55	41	74.4		250.5	
+32.			73.2	+0.6		
56 20.						

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1911phae.proj..606W

May 22. 1911.

11	55	55			179.6	6
	56	14			254.0	
	58	42	77.0 ✓		178.0	
16 ✓9 2. ✓	58	54	72.3 ✓		255.0	
+32. ✓	59	5			178.8	7
16 ✓9 34. ✓	5	19	74.6 ✓	+0.6 ✓		
	59	28			251.1	

Seeing in above eclipse pretty good.

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1911phae.proj...600W

May 22. 1911.

For record, attempted eclipses see fol. pages.

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1911phae.proj..606W

May 22. 1911.

~~Sept~~ 12 4 58 Reen.

Reap. Sat. II. Tr. ob. Tebbutt rec.

Sat. II reappeared just above Sat. I and so close to it that nothing of value could be obtained. When Sat. II. reappeared, it was really in contact with Sat. I.

B. + C. 11 & 2.			B. 394.		
12	15	26.0	12	16	0.0
12	16	25.8	12	17	0.0

L. P. P.

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1911phae.proj...600W

May 27. 1911. (Saturday).

Double Star =
Bu. Cat. A329.
P.A. 285° Tlot 2i". Mags 6.8 7.3

17 r9 +64.2
12 7

-r r2
+6 A

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1911phae.proj..606

May 27 1911.

Index Right Above

7.57.5

82.3
165.4 (Hor. dis.
264.2 Δ3.1
344.0 Δ9.8
Δ12.9 0.32

80.0 Δ7.0 0.27
167.0 Δ6.5
263.0 Δ16.5 0.22
344.5

Index Left Below

352.3 Δ1.4
73.7 Δ5.6
175.9 Δ17.0 0.45
251.5

354.9 Δ7.0 0.47
71.9
176.0 Δ7.0
253.0 Δ15.0 0.50

0.37

8.3.20
0 25.
Δ 0 12.
+r -Δ.
13 0 4

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1911phae.proj...600w

May 27 1911

Double Star =
Gen. Cat. #646.

P.A. 319° Dist 142" mags 6.6 7.4

1h	30	+34.f
12	v-7	
-v	33	
+6	27	

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1911phae.proj..606M

May 27 1911

Index Left Below

8.25.50

183.2
245.3 } S. fol. dis.
353.0 62.1
73.6 Δ 0.6
142.7 0.72

174.1
254.0 79.9 0.72
359.5 63.3
62.8 143.2 0.71

Index Right Above

91.9 64.1
156.0 79.5
265.0 143.6 0.70
344.5

0.66

81.5 64.7
166.2
271.9 62.6 0.63
334.5 147.3

8.30.15
√6 √ √
Δ 2Δ 2. √
+√ −Δ.
13 27 √4. √

0.69

1911phae.proj...600

May 27. 1911.

Double Star =
Bu. Cat. #115.
P. A. 111° Dist 1.13" Mags 6.4 7.3

17 37 +31.4
13 12

-4 25
+7 35

1911phae.proj..606M

May 27 1911

8.41.45

Index Right + Below

10.5	N. prec. + bitr dis.	
58.0	47.5	
184.1	8.9	
~~248.0~~ 243.0	106.4	1.50
3.7	4.4	1.36
62.5		
180.7	60.5	
241.2	119.3	1.21

Index ~~left~~ below

279.2	44.4	
328.0		
97.0	1.7	
148.7	100.5	1.64
277.4	2.7	1.56
330.1		
97.0	50	
151.0	106.7	1.49
		1.46

~~8.41.45~~
8.46.45
30.
44 15.
+5 -4.
13 44 7.

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1911phae.proj...600N

May 27, 1911.

Double Star =
= Bu. Cat. ~~6872~~, 7048,
P. A. 210° Dist 88" Mags 6.5. 7.2

~~+4 +9 +11.7~~

14	49	0,0
13	32	
-1	17	
+10	43	

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1911phae.proj..600W

May 27 1911

Index Pyxis + Abor

8.58.30

178.9 } m. fol. + brtr dis
251.5 } 72.6
355.8 } 37.0
72.8 } 109.6 0.58

173.0 41.6 0.54
254.6
355.7 71.9
67.6 113.5 0.51

Index ~~Lyn~~ + Balow

88.0
161.0 73.0
265.7 72.7
341.4 146.7 0.60

83.0 79.0 0.52
162.0
267.0 71.4
338.4 150.4 0.57

9.4.35
3 v.
9 1 32.
+v -8.
14 1 24.

0.56

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1911phae.proj...600

May 27. 1911.

Double Star =
Bu. Cat. VV 37.
P. A 88° Dist 288" Mags 5.2 7.2

10 3A +46.7
13 V 2
+3 1 4

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1911phae.proj..600W

May 27 1911

	Index Right + Above		
	101.1	(prec. dis.	
9.24.5	149.3	46.2 ✓	
	279.7	✓1.3 ✓	
	331.0	97.5 ✓	1.72 ✓
	99.5	✓0.✓ ✓	1.82 ✓
	150.0		
	283.0	39.8 ✓	
	322.8	90.3 ✓	1.91 ✓
	Index Left + Below		
	18.0	33.0 ✓	
	51.0		
	192.0	41.6 ✓	
	233.6	746 ✓	2.36 ✓
	14.9	34.2 ✓	2.31 ✓
9.28.5	53.1		
✓2 10. ✓	194.0	39.6 ✓	2.26 ✓
9 26 ✓. ✓	233.6	77.8 ✓	
t✓ -2, ✓			2.6 ✓
14 25 ✓7. ✓			

The dist. and mags of these stars seem about right, but the position angle W. would call about 65 or 70 degrees.

WS watch used for times.
Watch 8s fast

L. A. P.

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1911phae.proj...606N

May 29. 1911. (Monday).

Double Star =
Bu. Cat. 4646
P.A. 319° Dist. 1.42" mags 6.6 7.4

~~1h 30 +34.4~~
~~12 44~~

1h 32 +34.7
12 44
-4 4h
+6 12

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1911phae.proj..600W

May 29 1911

Index Left + Below

8.8.15

5.4 < Stol. + birtr dis.
60.2 √4.8
177.4 70.3
247.7 12√.1 1.04

357.5 70.√ 1.04
68.0 √4.9
186.1 12√.4 1.04
241.0

Index Right + Above

276.0 √4.8
330.8 68.2
89.√ 123.0 1.13
157.7

1.16

268.4 67.√
335.9
97.0 √2.4
~~149.4~~ 119.9 1.19

8.13.25

21 40. √
4 10 √0. √
+√ -1√. √
13 10 3√. √

1.12

This double was elected by one of the brightest stars in Lyra.

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1911phae.proj...606

May 29. 1911.

Double Star =
Bus. Cat. 2115.
P.A. 111° Dist 113" Mags 6.4 7.3

17 37 +31.4
13 14

-4 23
+7 37

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1911phae.proj..606W

May 29 1911

8.35.30

Index Right + Below

167.6 } m. prec. ~~dis~~ dis
258.4 90.8
340.7 10 V.9
86.6 196.7 +0.32
163.3

161.2 103.8 +0.24
265.0 89.0
346.0 192.8 +0.24
75.0 167.2

Index ~~Left~~ + Above

81.0 89.6
170.6
253.0 104.9
357.9 194.V +0.27
165.V

67.8 107.2 +0.24
175.0 84.0
259.3 191.2 +0.21
343.3 168.2

+0.26

8.51.0
26 30. V
43 1V. V
+V −1V. V
13 43 0

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1911phae.proj...606

May 29. 1911.

Double Star =
Gen. Cat. 2297.
P.A. 37° Dist 58 Mags 7.0 7.1

17	V-V	+62.6
13	44	
-4	11	
+7	49	

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1911phae.proj..600w

May 29 1911

Index left + Above

9.3.45

243.7 (spec. dis
354.4 110.7
77.7 44.3
162.0 19 V. 0
16 V. 0 +0.29

264.0 78.9 +0.24
342.9 111.4
67.9 190.3
179.3 169.7 +0.20

Index Right + Below

164.4 97.1
261.5
337.5 104.V
20 V. 6
86.0 1V 4.4 +0.49

162.7 100.3 +0.44
263.0 100.V
340.0 200.6
805 1V 9.2 +0.40

+0.34

9.9.50
13 3V. V
9 6 40. V
+V -1V. V
14 6 33 V

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1911phae.proj...606

May 29, 1911.

Double Star =
Bu. Cat. A329,
P.A. 285° Dist 21" Mags 6.8 7.3

17 ♈ 9 +64.2
14 ♉
-3 ♈ 9
+4 1

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1911phae.proj..600W

May 29 1911

Index right + Above

9.17.50

80.6
163.5 } foc. dis. 82.9
265.6
341.6 76.0 1 v 8.9 0.40

79.4 8 4.6 0.40
164.0 74.9
266.0 1 v 9. v 0.39
340.9

Index left + Below

350.6
69.0 7 8.4 v
172.0 8 0.9 v / 1 v 9.3 v 0.39
252.9

0. v 0

350.6 79.4 v
70.0
179.0 69.1 v / 1 8 8. v v 0.60
248 1

9.23.50
41 50. v
9 20 v 0. v
+v -1 v. v
1 4 20 3 v. v

0. 4 v

W's watch used for times
Watch 1.5 s fast.

L. P. P.

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1911phae.proj..606W

June 1. 1911. (Thursday).

Doubly Star =
= Bu. Cat. ~~+0°.97~~ 7h 30s.

P. A. 263° Dist. 114" Mags. 7.0, 7.1

20 47 +58.4
12 37
-8 10
+3 50

16 57 +47.5
12 42
-4 13
+7 47

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1911phae.proj..600W

June 1. 1911.

Under left & above

354.9	St. proc. dec.	
253.3	101.6	
79.0	91.1	
170.1	192.7	
	167.3	+0.24

255.2		
350.3	95.1	+0.25
75.2	95.8	
174.0	193.9	
	166.1	+0.26

Under right + below.

165.8	100.6	
266.4		
346.8	95.4	
82.2	196.0	
	164.0	+0.30

169.0	90.8	
259.0		
344.0	94.0	
82.0	184.0	
	172.0	+0.15

+0.24

8 13 30
17 35.
4 4 42.
45 44.
139 2.

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1911phae.proj..600W

June 1. 1911.

Double Star =
Lw. Cat. 10 V 77
P. A. 262° Dist 170.″ Comp. 6.5, 7.2

20 49 +V.A.4
13 17

−7 30
+4 30

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1911phae.proj..606W

June 1. 1911.

Ruled right & below

8 32 0

95.5 ✓ ✓ ✓ Fol. 60.

154.0

269.1 69.6

338.7 126.1 1.02

85.2 73.8 0.93

159.8

273.0 63.0

336.0 136.8 0.84

114 64.✓

65.9

180.0 64.0

248.0 132.✓ 0.93

357.1 69.9 0.9✓

67.0

183.0 60.6

243.6 130.✓ 0.97

8 40 30

72 20. ✓

8 36 10. ✓

+✓ +14. ✓

13 36 24. ✓

0.9✓

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1911phae.proj...600w

June 1. 1911.

Doubly Star =
Ben. Cat. 10400A.
P.A. 190.5 Dist. 1.33." Mags. 6.4, 6.9

21 7 +47.3
13 √2

−7 1√
+4 4√

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1911phae.proj..606W

June 1. 1911.

Under right & above

178.0 ← Northern leg.
249.5 71.5
1.0 72.0
73.0 143.5 0.70

177.8 72.8 0.72
250.6 69.3
357.9 142.1 0.73
67.2

Under left & below

87.0 73.1
160.1 71.1
267.0 144.2 0.61
342.1

87.2 72.5 0.65
159.7 71.9
267.3 144.4 0.69
339.2

8 56 40

9 3 30
10
9 0 1
+14.
14 0 19.

0.68

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1911phae.proj..600w

June 1. 1911.

Double Star =
Ber. Cat. 11323.
P.A. 194.° Dist. 20.″ Mags. 6.0, 7.0

21 49. +√√.3
14 7
−7 42
+14 10

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1911phae.proj..606W

June 1. 1911.

Ludes left & below

8616 ← northern dis

9 17 15

156.0 69.4
269.1 77.9
347.0 147.3 0.63

88.9 69.1 0.70
158.0
266.6 71.5
338.1 140.6 0.76

Ludes right tabers.

358.2
68.0 69.8
178.0 76.5
248.5 140.3 0.77

355.0 71.0 0.72
66.0
177.0 73.5
250.5 144.5 0.68

9 24 30
41 41.5
9 20 52.5
+5. +14.
14 21 6.

0.71

No watch used for times.
Watch 14 secs. slow.

L. A. P.

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1911phae.proj...600W

June 2. 1911. (Friday).

Double Star =
Bec. Cat. δ 3ν4.
P. A. 22°. Dist. 30.″ Magn. 6.δ, 7.3

1δ	1	+ν6.4
12	20	
−ν	41	
+6	19	
12	$\nu\nu$	
−ν	6	
+6	ν4	

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1911phae.proj..606M

June 2. 1911.

Index left & above

8 3 40

83.9
163.2 ← S. Prec & Both. dist.
258.2 79.3
342.6 84.4 0.31
163.7

81.6 +1.6 0.34
163.2
263.5 82.7
342.2 160.3 0.32

Index right & below

350.5 +0.1
70.6
171.0 +3.3
254.3 163.4 0.32

354.0 +0.6 0.36
74.6
172.9 +5.5
251.4 159.1 0.40

8 10 58
14 38
+ 19.
+16.
13 7 35

0.35

1911phae.proj...600w

June 2. 1911.

Double Star =
Bec. Cat. 10 v 77.
P. A. 262°. Dist. 110." Exp. 6.v, 7.2

20	47	+v+4
13	20	
-7	27	
+14	33	

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1911phae.proj..606N

June 2. 1911.

Index right & below

8 28 5

272.6 ← N. fol. dis
336.0
86.0 63.4
160.5 74.5
137.9 0.4n

268.6 67.9 0.5q
336.5
91.8 62.9 0.9b
154.7 130.8

Index left & above

179.7 57.9
237.6
5.6 63.9
69.5 121.8 1.1r

185.0 61.8 1.2l
246.8
14.1 64.9
59.0 116.7 1.2

8 36 15
6 4 20. v
4 32 10. v
+5 +16. v
13 32 26 v

Meas. through clouds. 1.0r

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1911phae.proj...600w

June 2, 1911.

Double Star =
Bru. Cat. ~~10200~~ 11323.
P. A. 194.° Dist. 20." Mags. 6.0, 7.5

~~21 7 +47.3~~

21 49 $+\sqrt{\sqrt{3}}$
13 $4\sqrt{}$
$-A$ K
$+3$ $\sqrt{6}$

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1911phae.proj..600W

June 2. 1911.

Index right & above

180.0	← N. fol. dis		
249.5	69.5		
358.7	70.0		
70.7	141.5	0.74	
178.1	67.4		0.78
245.5	70.9		
356.1	134.3	0.81	
67.0			

Index left & below

90.1	70.4		
160.5	70.3		
267.0	140.7	0.76	
337.3			
			0.74
85.2	72.4		
157.6	70.2		
269.4	142.6	0.72	
339.6			
			0.76

F 47 15

8 54 30

101 45. ✓

4 ✓0 ✓2. ✓

+5 +16. ✓

13 ✓1 4. ✓

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1911phae.proj...600w

June. 2, 1911.

Double Star =
= Bu. Cat. 10808
P. A. 190.° Dist. 133." Mags. 6.4, 6.9

21 7 +47.3
14 0

-7 7
+4 +3

Ephemeris. on p. 158.

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1911phae.proj..606W

Omitted by mistake,

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1911phae.proj...600

Omitted by mistake.

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1911phae.proj..600W

June 2, 1911.

Index left & below

9 4 0

91.0	71. dis	
152.8	61.8 ✓	
266.0	74.2 ✓	
340.2	136.0 ✓	0.86
84.5	77.9 ✓	0.7 ✓
162.4		
269.0	71.9 ✓	
340.9	149.8	0.8 ✓
1.0	68.0	
69.0	76.7	
176.8	144.7	0.6 ✓
253.5		

Index right & above

0.6 ✓

358.1	72.1	
70.2		
178.2	72.1	
250.3	144.2	0.6 ✓

0.70

9 9 50

13 50. ✓

9 6 55. ✓

+5 +16. ✓

14 7 11 ✓

Ke's watch used for times.
Watch 16 sec. slow.

L. P. P.

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1911phae.proj...600

June 3. 1911. (Saturday).

Double Star =
Bu. Cat. A3574. Phot. R. H. obs. Stewart rec. Rec. Calloch,
P. A. 22° Dist. 3.4" Mags. 6.8, 7.3,

1h	1	+56.4
13	4	
-4	57	
+7	3	

For wenzel. See fol. page.

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1911phae.proj..606W

June 3, 1911

Index left & above

8 6 40

267.4 < S. Jupiter dis

343.3 76.1

73.2 94.1

167.3 170.2 0.19

260.5 ∠6.0 0.22

346.5 ∠0.6

82.3 166.6 0.25

162.9

Index right & below

174.2 ∠0.0

254.2 ∠7.7

348.3 167.7 0.23

76.0

167.9 ∠9.6 0.20

8 13 30

257.5

353.5 ∠1.9

75.4 171.5 0.16

0.21

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1911phae.proj...600W

June 3. 1911.

Double Star =
Bu. Cat. 10 v 77.
P. A. 262°. Dist. 110." Mags. 6.5, 7.2

20	47	+v2.4
13	24	
-7	23	
+14	37	

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1911phae.proj..606

June 3, 1911
Tube eyepiece & below

F 29 5

	91.7		fol. dbs
	154.4	62.7	
	265.6	72.6	
	338.2	135.3	0.47

	86.2		
	160.0	73.8	0.91
	274.8	57.4	
	332.2	131.2	0.95

Index

	7.0	54.8	
	61.8	72.7	
	178.3	127.5	1.03
	251.0		

F 34 0

	357.7		
	70.2	72.5	
	154.0	92.8	
	246.8	165.3	

0.97

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1911phae.proj..600W

June 3. 1911.

Double Star =
Sec. Cat. 11323.
P. A. 194°. Dist. 20.″ Mags. 6,0, 7.0

21	49	+V V.3
14	4	
−7	4V	
+14	1V	

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1911phae.proj..606M

June 3. 1911.

Index right & above

9 3 30

358.3 ← N. pol. of the dis.
64.0
175.0 67.7
347.9 72.9
134.6 0.80

356.1 70.9 0.84
67.0
182.9 63.9
246.8 134.8 0.88

Index left & below

267.4 74.6 ✓
342.0
84.5 74.5 ✓
159.0 149.1 0.99

9 8 50

274.0 63.2 ✓ 0.78
337.2 ✓
91.2 66.8 ✓
158.0 130.0 0.98

0.81

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1911phae.proj...600W

June 3. 1911.

Double Star =
Byer Cat. 10402.
P. A. 190°. Dist. 133". Mags. 6.4, 6.9.

21 7 +47.3
14 14
−6 √3
+√ 7

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1911phae.proj..600W

June 3, 1911

Under left & below

9 16 50

263.8 — N. dis.
338.9 75.9
91.0 75.6
156.6 141.5 0.94

270.2 66.8 0.71
337.0
84.2 77.9 144.7 0.68
162.1

Under right & above

176.5 74.7
251.2 74.1 148.8 0.72
352.1
70.2

~~179.5~~ ~~4 21 30~~ ~~251.6~~ 0.74

355.4
9 22 30 69.3 73.9 76.2 150.1 0.77
39 20.
9 19 40. 177.0
353.2

0.62

His watch used for times.
Watch 15 secs. slow.

L. P. P.

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1911phae.proj...600w

June 7. 1911. (Wednesday)

Double Star =
= Ber. Cat. 10ν 77.
P. A. 262° Dist. 110." Mags. 6.ν, 7.2

20 47 +5.4
13 27
-7 20
+14 40

For. means, see next page.

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1911phae.proj...600W

June 7. 1911.

Index left ϕ above

8 12 10

3.	← Tab. dis.		
62.1		ν 4.2	
179.6		69.1	
248.7		127.3	1.04
352.3		7 ν.7 ν	0.96
68.0			
184.5		ν 9.ν ν	0.47
244.0		13 ν.2	
275.0		ν 7.0	
332.0		76.2	
85.4		133.2	0.91
161.6			

Index right ϕ below 0.90

8 17 0

29 10. ν

4 14 35. ν

269.5		72.ν	
342.0			
93.0		61.1	
154.1		133.6	0.90

0.93

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1911phae.proj...600w

June 7. 1911.

Double Star =
Bu. Cat. 11323.
P. A. 194.° Dist. 20." Mags. 6.0, 7.0

21	49	+vv.3
13	48	
−2	9	
+3	√1	

For remarks, see next page.

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1911phae.proj...600W

June 7, 1911.

Index left & below

87.8 ← N. pol. dis

f 24 0

158.0 70.2

267.0 69.0

336.0 139.2 0.79

89.5 72.0 0.76

161.5

269.2 69.2

338.0 141.2 0.74

Index right & above

359.3 66.7

66.0

180.0 70.2

250.2 136.9 0.68

0.78

357.2 73.4

f 29 0 70.6

178.7 69.2

247.9 142.6 0.72

f 30 0'

f 26 30.

0.77

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1911phae.proj...606W

June 7. 1911.

Double Star =
Ber. Cat. 9607
P. A. 127.° Dist. 18." Temp. 6.°, 7.°

19	4r	+3V.A
13	rV	
−V	47	
+6	13	

For results, see next page.

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1911phae.proj...600W

June 7, 1911

Index right

	357.3	← N. prec. dls	
8 38 10	68.0	70.7	
	174.8	79.5	
	254.3	150.2	0.59
	354.2	77.8	0.54
	72.0	75.5	
	176.0	153.3	0.51
	251.5		

Index left

	265.6	79.2	
	340.8	80.0	
	81.5	159.2	0.47
	161.3		
	267.0	79.4	0.45
8 8 43 50	342.4	82.2	
82 0	82.8	157.6	0.43
8 41 0	163.0		
			0.50

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1911phae.proj...606W

June 7. 1911.

	B. & C. 1102.		B. 394		
9	18	46.3	9	19	0.0
	19	46.5		20	0.0

Recap. Jup. I. Phot. R. H. obs. Inc. Collod. rec.

Compared with remote pat. on fol. side –
= Sat. IV.

For obs. see fol. pages.

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1911phae.proj..606W

June 7, 1911.

1V	4h	3m	3V.V	10		3	12	187.1	
1V	4		2.V			3	39	V4.0 V 241.0	+1.V V
	4		22.V			3	59	V2.V 1487.0	+1.3 V
	4		38.V			4	15	69.V 243.5	+0.4 V
	4		49.V			4	26	74.2 V 1760	+0.6 V
	5		12.V			4	49	74.2 V 250.2	+0.6 V
	5		29.V			5	4	80.0 V 176.0	+0.4 V
	5		52.V			5	35	82.0 V 256.0	+0.3 V
	6		1V.V			5	52	82.V V 174.0	+0.3 V
	6		28.V			6	5	87.V V 256.5	+0.2 V
	6		44.V			6	21	84.3 V 171.0	+0.2 V
	6		57.V			6	34	255.3	
						6	44	171.1	
	7		3.V			6	57	87.6 V 258.7	+0.1 V
			+23.V			7	9	87.8 V 86.7 V 170.0	1
	7		26.V			7	22	255.8	
						7	33	168.5	
	7		V4.V			7	46	92.V V 261.0	+0.1 V
			+24.V			7	57	83.2 V 87.8 V 171.0	2
	8		18.V			8	18	254.2	
						8	31	81.6 V 171.3	+0.2 V
	8		V6.V			8	44	86.0 V 252.9	3
			+24.V			8	57	83.8 V 172.8	
	9		20.V			9	10	258.0	
						9	23	169.0	
	9		39.V			9	34	92.V V 261.5	−0.1 V
			+24.V			9	45	92.3 V 92.4 V 170.2	4
1V	10		3.V			9	55	262.5	
						10	10	163.0	

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1911phae.proj..600W

June 7. 1911.

N 10 46. 6	10	35	92.4	261.8		-0.1
+24	10	55	92.7	172.3		5
N 11 10.	11	9	92.2			
	11	24		258.0		
	11	49	91.6	169.4		
12 7.	12	1	89.8	261.0		0.0
+25.	12	14	90.7	169.0		6
12 32.	12	25		258.8		
	12	38		168.2		
13 0.	12	49	91.3	259.5		0.0
+25.	13	5	88.4	168.0		7
13 25.	13	29	89.8	256.4		
	13	44		169.0		
N 18.	13	59	91.5	260.5		0.0
+25.	16	31	88.2	172.1		8
N 43.	16	56	89.8	260.3		

Limit of desirability

	17	32	41.8	187.2	
17 53.	17	41	38.8	229.0	+2.2
+26.	17	58	40.3	191.9	
N 18 19.	18	22		230.7	

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1911phae.proj..606W

June 7. 1911.

B. + C. 1182.			B. 394.		
10	28	32.0	10	29	0.0
	29	32.2		30	0.0

Sw obs. of prec. eclipse, sat IV – (comparison sat) – was several minutes of arc away from image of Satp. I when prisms of Phot. R. were run way up the tube, and Satp. I was compared with IV under this difficulty.

L. P. A.

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1911phae.proj...600W

June 2. 1911. (Thursday).

Double Star =
Ber. Cat. 9607 K. Ob. Rec. Cullach rec.
P. A. 127° Dist. 15" Exp. 6.0, 7.4

19	42	+3 V. A
14	42	
−5	0	
+7	0	

For results, see fol. page.

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1911phae.proj..606W

June 8. 1911.

Index right & about

	359.0	← N. pier. dis	
9 18 40	68.5	69.5	
	179.3	79.0	
	258.3	148.5	0.60
	352.0		
	69.0	77.0	0.56
	174.8	75.8	
	250.6	152.8	0.52
	267.3	70.7	
	338.2		
	81.4	72.6	
	160.0	149.3	0.59
	268.8	68.2	0.66
9 24 50	337.0		
	84.9	73.4	
	158.3	141.6	0.74

0.61

Saw Mars here to-night. Showed them Jupiter, — also gave them general explanations.

The watch ~~correction~~ assumed to be 5 secs slow, from the way it is running.

L. P. P.

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1911phae.proj...606W

June 14. 1911. (Wednesday).

~~Var. +7° 2706. H. obs. Enc. Cullock~~ Too

Var. +60° 1246. H. obs. Enc. Cullock Tac. Phot. I.

10	V	+60°.7
13	47	
+3	4.2	

10	V
14	27
+4	2.2

For remarks, see next page.

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1911phae.proj..606W

June 14, 1911.

Index left & above

341.9 ← 27.7 Var. dia.
9.6
156.2 39.8
196.0 67.5 −2.59

341.0 32.6 −2.87
13.6
161.8 20.2
182.0 52.4 −3.15

Index right & below

258.9 23.7
282.6
67.2 35.8
103.0 59.5 −2.88

247.8 35.7 −2.88
283.5
73.5 24.0
97.5 59.7 −2.89

Mean −2.88

4 52 30

4 58 0

10 30

δ − 5.5 − 15.5
+ 5 −24.

13 54 51.

9202.579δ

Pos Ang. 227.3

Comp. Star = +60° 1244 (8.9)

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1911phae.proj...600W

June 14. 1911.

γ Cygni.

Var. +32° 30′ 22″ B. obs. Inc. Cullock rec
Plt. I.

19 41 +33.3
15 17
−4 24
+7 36

19 √1 +34.4
7 42

~~19 √1 +34.4~~
~~15 √7~~
~~3 4 4~~
~~+4 6~~

19 √1 +34.4
15 27
−4 24
+7 36

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1911phae.proj..606

June 14. 1911.

101320

59.3 ↘ 1.8 ↘ Var. Dis.
111.1
247.8 36.6 ↘
284.4 38.4 ↘ −1.96 ↘

70.8 32.2 ↘ −1.96 ↘
103.0
238.0 ↘ 6.0 ↘
294.0 38.2 −1.96 ↘

328.8 ↘ 4.2 ↘
23.0
151.5 49.0 ↘
200.5 103.2 ↘ −1.84 ↘

−1.62 ↘

156.5 41.7 ↘
198.2 38.4 ↘
320.6 − 327.6 100.1 ↘ −1.62 ↘
26.0 − 26.0

Mean −1.79 ↘

10 19 ↘0 ± (Assumed)
13 10. ↘
10 16 3↘. ↘
+↘ −24. ↘
1↘ 16 11. ↘
9202.6362 ↘

Pos. Aug. 194.8

Comp. Star = +32° 3521 (9.3)

We watch used for times.
Watch 24 secs. fast.

L. P. P.

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1911phae.proj..600W

193732. Class III.

Var. (Flaming Star). = 77 Cygni.

Var. = +32° 3577 22

C. S. = +32° 3577 21 (9.2)

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1911phae.proj..600

June 14. 1911.

	B. + C. 1102.			B. 394.	
11	3	42.4	11	3	0.0
	4	42.3		4	0.0

As there was to be a Reap. of Jup. I. at $11^h\ 08^m$ the above Astron. comp. was taken, but it was cloudy at the critical time so that eclipse could not be observed.

L. P. P.

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1911phae.proj..606W

June 15, 1911. (Thursday).

U Ursae Maj.

Var. +60° 1246, W. obs. Eric Culloch rec.

Phot. I.

~~P. A. 127° Dist. 15" mags. 6.6, 7.4~~

10	v	+60.7
13	v1	
+3	46	

Clouds. Abandoned.

Double Star = Bu. Cat. 9607.

19	42	+3v.A
14	16	
−v	26	
+6	34	

P. A. 127° Dist. 15" mags. 6.6, 7.4

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1911phae.proj..666W

June 15, 1911

Index right & above

173.7 ∠ No. Mer. Dis

δ 31 20

250.2 76.5″
331.0 78.5″
69.5 155.0″ 0.4″

178.0 72.6″ 0.5″4″
250.6 75.4″
354.2 148.4″ 0.61″
70.0

Index left & below

85.0
162.0 77.0″
267.0 76.0″
343.0 153.0″ 0.5″2″

P I S

81.8 79.5″ 0.5″2
161.3 79.5″
265.6 73.5″
339.1 153.0″ 0.5″2″

δ 42 20 0.5″3

73 40.″
∠ 36 50″
+5″ −27.″
13 36 23.
9203.5″ 670″

Iris watch used for times.
Watch 27 sec. fast.

L. P. P.

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1911phae.proj..600

June 16. 1911. (Friday).

Double Star =
= Bu. Cat. 10ν 77 W. obs. Enc. Cullock 12gc.
P.A. 262°. Dist. 118". Comps. 6.5, 7.2 Phot. R.

20	47	+νδ.4
13	45	
-7	2	
+4	νδ	

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June 16. 1911.

Under right & below

269. 3 ← Sol. & both dis.

8 13 50

340. 5 71.2 ✓

94. 5 57.5 ✓

152. 0 128.7 ✓ 1.00 ✓

273. 8 58.2 ✓ 0.94 ✓

332. 0 76.1 ✓

84.4 134.3 ✓ 0.89 ✓

160. 5

Under left.

177. 9 70.1 ✓

248. 0

356. 2 65.6 ✓ 0.86 ✓

61. 8 135.7

158. 0 84.1

8 20 30

242. 1 68.9

359. 8 153.0

68. 7

185. 1 57.9 ✓

243. 0

358. 8 70.2 ✓ 1.02 ✓

69. 0 128.1 ✓

0.94 ✓

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1911phae.proj...600W

June 16. 1911.

B + C. 1182.			B. 394.		
ℓ	45	27.4	ℓ	45	0.0
	46	25.3		46	0.0

Re. Sup. II. Phot. R.-1 prism removed.
Tr. obs. Mrs. Cullgeh rec.
Compared with only sat. on fol. side (before eclipse) = Sat. I.

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1911phae.proj...606N

June 16, 1911.

Limit of Visibility.

14 9 9.	8	21	207.0		
−21	9	9	231.2	24.2 / 24.0	
14 8 48.	9	20	208.0	24.1	+3.4
	9	40	232.0		
14 14 48	15	8	Rain		
14 58	15	18	206.0	34.0	+2.6
15 11.	15	34	240.0	32.6	+2.3
15 24	15	44	201.4	32.6	+2.3
15 37.	15	57	240.0	47.9	+2.0
15 53	16	13	197.1	44.9	+1.7
16 6.	16	26	246.0	43	+1.5
16 16.	16	36	191.7	57.9	+1.3
16 31.	16	55	249.6	60.6	+1.2
16 50.	17	10	189.0	64.2	+1.0
17 5.	17	25	253.2	73.7	+0.6
17 21	17	41	179.5	77.4	+0.5
17 35.	17	55	256.9	77.4	+0.5
17 55.	18	15	179.5	79.2	+0.4
18 6.	18	26	258.7		
	18	47	179.1	±0.5	
14 19 13.	19	3	259.6	±0.0 / ±2.0	+0.3
−20.	19	23	175.9		
14 18 53	19	39	260.9		
	20	2	176.0	±0.0	
14 20 22.	20	14	261.0	±2.0	
−19.	20	29	177.9	±3.5	+0.2
14 20 3.	20	45	259.9		

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1911phae.proj..600W

June 16, 1911.

14	21	11.	20	52	179.8 ±1.6
		-19.	21	5	261.4 ±3.0 ±2.3 +0.3
14	20	52	21	18	178.0
			21	28	261.0
			21	43	180.0 ±1.8
14	22	4.	21	58	258.8
		-19.	22	11	178.0 ±2.1 ±0.4 +0.4
14	21	45	22	22	260.1
			22	34	177.0
14	22	57.	22	47	258.8 ±1.8
		-19.	23	3	179.9 ±0.4 +0.4
14	22	38.	23	24	259.0
			23	43	178.5 ±1.1
14	24	2.	23	55	260.0
		-19.	24	8	178.9 ±0.7 ±1.1 +0.3
14	23	43.	24	22	259.6
			24	37	179.0 ±1.9
14	25	57.	24	46	260.9
		-18.	27	6	179.1 ±0.9 ±1.4 +0.3
14	25	39.	27	19	260.0
			27	30	180.0
14	27	48.	27	41	259.0 ±0.0 +0.4
		-18.	27	53	180.0
14	27	30.	28	6	260.8

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1911phae.proj..606W

June 16. 1911.

Previous eclipse considered good.
Sky quite clear.

	B. + C. 1142.		B. 394.	
9	33	17.2	33	0.0
	34	17.0	34	0.0

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1911phae.proj...606W

June 16. 1911.

U Ursae Maj.

Var. +60° 1246, 1, H. obs. Enc. Cullochs rec,
Phot. S.

10	√	+60.7
1√	40	
+√	3√	

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1911phae.proj...606

June 16. 1911.

Ruder left & down

15.7. 8 ← Var. dis

9 5 3 30

190.5	32.7″	
344.1	24.5″	
8.6	57.2″	−2.97″
164.0	25.9″	−2.86″
189.9		
334.0	373″	−2.74″
11.3	63.2	
66.0	36.2″	
102.2	31.4″	
251.6	67.6	−2.59″
283.0		
		−2.64″
72.3	25.7″	
98.0	36.6″	
247.4	62.3	−2.77″
284.0		
		−2.77″

10 0 15

113 47.5″

9 56 52.5″

+5″ −32″

14 56 20.5″

9204.6224″

Pos. dec 228°.2

We watch used for time,
Watch 32 secs. fast.

L. P. A.

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1911phae.proj..606W

June 17. 1911. (Saturday).

Double Star =
Bu. Cat. 11323.

21	49	+VV.3
14	14	
−7	3V	
+4	2V	

Cloudy. Abandoned.

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1911phae.proj...600W

June 19. 1911. (Monday).

Double Star =
= Ber. Cat. 11477 A2,
H. Ob. Rec. Cullock rec. Phot R.
P.A. 73° Dist. 183". Mags. 7.9, 7.5

2 2 1 +79.3
~~+3 +2~~
~~=8 9.~~
~~+3 +1~~
14 +78
-7 1.9
~~+4~~ +61

~~Possibly this is not the correct double. Some trouble with it. Will examine region again. - but could not seem to find any other easily.~~

The above is the correct double.

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1911phae.proj..606N

June 19, 1911

Index right & below

φ 4310

355.0 ← S. prec. & 6th dis
72.4
185.0 77.4
240.0 77.0
132.4 0.93

357.2
61.0 63.4
175.0 78.4
253.4 142 0.73 0.43

276.2 75.4
332.0
86.2 72.6
198.8 128.2 1.01

263.6 76.4 0.66
340.0
65.0 87.0
152.0 163.4 0.32

0.74

φ 4750
11 0
φ 4v 30

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1911phae.proj..600W

June 19. 1911.

Vas. +32° 3V 22 = 7 Cygni.
W. Sh. Mc. Culloch rec. Phot. S.

19	V1	+34.7
15	7	
−4	14	
+7	16	

For remarks, see next page.

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1911phae.proj..606W

June 19. 1911.

Under Night & Above

9 9 58

60.3 ← 47.4 Var. Lic.
108.1
247.0 97
256.7

166.0 40.0
106.0
240.0 ↓4.0
294.0 9 4.0 1.41

328.0 ↓↓.0
23.0 39.6
157.0 9 ↓.6 1.79
196.6

334.0 1.44
11.3 37.↓
154.0 ↓3.1
204.1 9 0.6 1.90

9 17 10
27 0 ↓
9 13 30. ↓
↓ · −↓0. ↓
14 12 40 ↓
9207. ↓922 ↓

1.42

808 Aug. 193.2
Some interfere a little

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1911phae.proj...666W

June 19. 1911.

Double Star =
Phot R,
Bu. Cat. 10 h 0 m. Hobs. rec. Colbloch rec.
A. A. 190° Dist. 133.4 Mags. 6.4, 6.9

21	7	+(-).3
15	37	
-5	30	
+6	30	

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1911phae.proj..600W

June 19, 1911

Index left & below

9250

279.0 ℓ No. dis
326.8 47.8 r
85.7 77.2 v
162.9 125.0 r 1.0 A

265.0
338.8 73.8 r 1.00
93.8 54.9
151.9 133.7 0.92

~~248.0~~ 355.6
~~3.2~~ 68.6 73.0
180.5 6K.r
245.0 137.r 0.82

9 40 30
6r 30. v
9 32 4r. v

1.0 60.r 0.8K
61.5
174.1 74.9 r
249.0 13r.K 0.87

0.92

It's watch used for times
watch 50 secs. fast

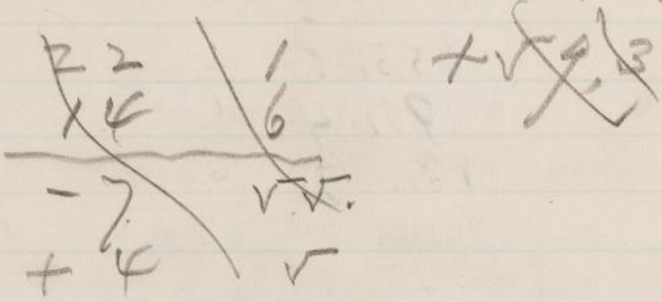
L. P. A.

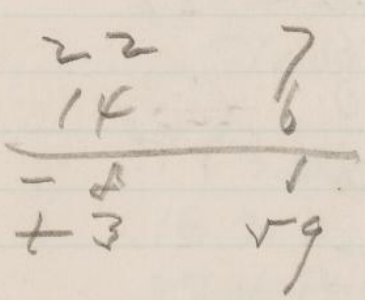
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1911phae.proj...600W

June 20. 1911. (Tuesday)

Double Star =
Ber. Cat. 11477 A.D.
W. obs. Mc. Cullock Sec. Phot. R.
R.A. 73°. Dist. 183". Mags. 7.9, 7.5





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1911phae.proj..600W

June 20. 1911.

No. 1 Compared with No. 2 = A D.
Under night & Thalord

2, 5 No. 1 dis. = A bstr.

61. 6	79.1	
173. 5	76	
250. 0	155.6	0,46
355. 0	75.4	0. 48
70. 4		
181. 3	63.2	
244. 5	138.6	0.40
275. 8	56.8	
332. 6		
85. 0	74.0	
163. 0	139.8	0.48
268. 5	72.5	0.44
341. 0		
91. 4	66.8	
158. 2	139.3	0.79

0. 44

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June 20. 1911.

No. 2 ~~Compared~~ with No. 3 =
= D E.

P. A. 347°: Dist. 136.4" Mag. 6.9, 6.7

~~64.0~~

~~140.0~~

Intermediate & about
175.0 < No 3. Dist. = E better.

8 34 30

254.9	79.9		
3.0	60.1		
63.1	140.0	0.77	
182.0	64.5		0.76
246.5			
354.5	77.0		
71.3	141.5	0.74	
83.2	79.8		
163.0			
274.2	61.4		
335.6	141.2	0.75	
			0.77
92.5	62.0		
154.5			
264.5	77.0		
341.5	139.0	0.79	
			0.76

8 39 40

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1911phae.proj..606W

June 20, 1911.

κ Cygni compared with κ Ursae Majoris

96.0 $\angle$ No 3 dist. = 8 hours.

8 43 10

149.6	√3.6		
271.8	66.2		
337.2	119.8	120	
87.5			1.14
158.6	71.1		
276.0	√3.6		
329.6	124.6	1.09	
6.6	√√.6		
62.0			
176.8	72.2		
249.0	127.4	1.03	
358.0			1.0√
67.3	69.3		
185.7	56.4		
242.1	125.7	1.07	
			1.10

8 48 10

11 20 √

8 44 40 √

P.A. (8 Ursae Majoris) 34°, Dist. 192". Mags. √.9, 7.√

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1911phae.proj...600W

June 20. 1911

Var. +7° 270 = A Virginis.

12	4A	+4.2
15	11	
+2	23	

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1911phae.proj..606W

June 20. 1911.

Index right of bore

319.7 Ver. dis. = Var. both

9 14 38

37.0 77.3
127.0 98.6
225.6 175.9 −0.04

308.8 95.7 −0.09
44.5
134.0 79.0
213.0 174.7 −0.10

230.0
307.0 −77.0
38.0 99.8
137.8 176.8 −0.06

217.9 95.3
313.2
42.9 − 82.6
128.5 120.9 +0.02
179.1

9 21 0
3 30.
9 17
14 16 0.
9208.59

−0.02

−0.06

360 deg. 91.0 Ver. B

W's watch used for Times
watch 55 secs fast.

L. P. A.

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1911phae.proj...600W

June 21. 1911. (Wednesday).

Double Star =
= Bu. Cat. 11477. A D.
P.A. 73°. Dist. 1.83". mag. 5.9, 7.5
Phot. R. F. obs. mer. without rec.

22	7	+60.0
13	√√	
−2	12	
+3	42	
~~+6~~	~~4~~	
~~−7~~	~~3~~	

14	22
−7	4√
+4	1√

Cap. A compared with ~~Cap.~~ ~~B~~ B

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1911phae.proj..606W

June 2, 1911.

Ruder left ♀ above

	268.7	A dis.	
8 18 20	340.5	71.8	
Assume ♂	59.0	70.5	
	159.5	142.3	0.73

0.71

	266.0	72.0	
	338.0	72.4	
	87.1	144.4	0.69
	159.5		

Ruder right ♀ below.

	179.5	63.9	
	243.4	72.8	
	358.0	136.7	0.44
	70.8		

0.43

	176.2	74.8	
8 24 10	251.0	63.1	
2 30.5	11.0	137.9	0.42
♂ 21 15.5 ✓	64.2		

0.77

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1911phae.proj..600W

June 21. 1911.

D Compared with E

Index Errors above

8 2 8 0

	356.0	E Dis	
	67.5	71.5	
	182.3	62.5	
	244.8	134.0	0.90
	2.0	62.0	0.86
	64.0		
	177.6	75.9	
	253.5	137.9	0.82
	264.0		
	341.5	77.5	
	93.3	61.7	
	155.8	139.2	0.79
8 33 30	273.2	60.8	0.74
	334.0		
	82.4	79.6	
	162.0	140.4	0.77

0.82

A.A. (DE) 347°; Dist. 136.11 Range 5.9, 6.7

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1911phae.proj..600

June 24. 1911.
F corresponds with E
tube below

	186.1	E dis.
6 37 0	242.0	55.9
	338.8	54.2
	63.0	140.1 0.77
	179.0	
	250.6	71.6 0.90
	4.0	
	59.3	55.3
		127.1 1.04
	97.0	
	150.0	53.0
	268.0	
	338.9	70.9
		123.9 1.11
	84.5	
8 42 30	159.4	74.9 1.05
	274.8	
	329.6	54.8
		129.7 0.99

0.98

P.A. (E-F) 34° Dist. 192". Magn. 5.9, 7.5

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1911phae.proj..600

June 21. 1911.

Var. +5° 2708 = R. S Virginis.

12	48	+4.2
15	5	
+2	17	

For remarks, see next page.

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1911phae.proj..600W

June 21. 1911.

Index right & above

Ver. dis

130. 6			
215. 2	84.4		
303. 2	99.0		
42. 2	123.8	+0.06	
	176.6		
126. 0	96.0	0.00	
222. 0	81.0		
315. 0	177.0	−0.06	
36. 0			

Index left & below.

233. 0	64.		
297. 5			
38. 5	93.4		
131. 9	157.9	−0.42	

214. 0	96.4	−0.32	
310. 4			
49. 2	72.6		
121. 8	169.0	−0.21	
		−0.16	

9 20

9 10 15

12 15

9 6 8.

+5 −1 3.

14 5 5 5

9209. 5869

Sun. Reg. 91.0 Ver. 73

W's watch used for time
watch 1 min. 3 secs. fast

L. A. F.

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June 23. 1911. (Friday).

	B+C. 118 Az.			B. 394.	
7	20	7.V	7	19	0.0
	21	7.V		20	0.0

Re. Jups. I, Tr. obs. Mic. Cullock rac. Compared with Sat. on psac. side = Sat. III. Phot. R.

For means, see fol. pages.

1911phae.proj...600W

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1911phae.proj..600W

June 23, 1911.

Limit of Visibility.

			δ	12	33	84.4	63.4	
13	13	17.		13	7	147.8	46.7	
	-1	3.		13	34	99.8	55.0	+1.4
13	12	14.		13	53	146.5		
13	21	1.		22	3	rain		
	21	12		22	14	95.0	59.0	+1.2
	21	30		22	32	154.0	63.9	+1.0
	21	47		22	49	90.1	69.9	+0.8
	21	59		23	1	160.0	72.0	+0.7
	22	16		23	18	88.0	77.2	+0.6
	22	28.		23	30	163.2	79.2	+0.4
	22	44.		23	46	84.0	80.1	+0.4
	22	56.		23	58	164.1	84.1	+0.2
	23	13.		24	15	80.0	85.3	+0.2
	23	29.		24	30	165.3	86.4	+0.1
	23	47.		24	47	78.9	92.9	0.0
	24	3		25	5	167.8		
				25	21	79.0	87.8	
	25	46.		25	34	166.8		
	-1	2.		25	50	79.5	87.5 / 87.6	+0.1
	24	44.		26	18	167.0		
				26	34	78.8	89.2	
	26	53.		26	46	167.2	88.8	
	-1	2.		26	59	81.3	87.0	+0.1
	25	51		27	13	166.1		
	26	2.		27	25	76.8	89.2	
	-1	2.		27	55	166.0	86.5 / 87.8	+0.1
	25	0						

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1911phae.proj...600

June 23, 1911.

8	28	14	81. 0		
	28	33	167. 5		
	28	58	78. 4		
	29	12	166. 2	±7.4 ±0.1 ±9.0	4
	29	32	76. 2		
	29	54	166. 3		
	30	8	79. 5	±8.5 ±7.4 ±8.2	
	30	17	168. 0		+0.1
	30	35	78. 7		
	30	49	166. 5		
	31	3	78. 2	91.6 91.0 91.3	6
	31	18	169. 8		
	31	31	77. 2		
	31	46	168. 2		
	32	8	75. 9	92.1 ±9.0 90.6	7
	32	22	168. 0		
	32	37	79. 0		
	33	0	168. 0		
	35	36	79. 0	±8.9 ±9.2 ±9.0	8
	35	52	167. 9		
	36	4	78. 1		
	36	25	167. 3		

13 29 24.
−1 2.
13 28 22.

13 30 27.
−1 1
13 29 26.

13 31 24.
−1 1.
13 30 23.

13 32 32.
−1 1
13 31 31.

13 35 59.
−1 11
13 34 58.

Eclipse observed through more or less varying cloud but eclipse considered pretty good.

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1911phae.proj..600M

June 23. 1911.

	B. + C. 11 Az.			B. 394.	
d	47	0.0	d	46	0.0
	48	0.0		47	0.0

Re. Jup. II. Phot. R. W. Ld. Mc Cullochvec.

	B + C. 11 Az.			B. 394.	
10	57	1.7	10	56	0.0
	58	1.7		57	0.0

Too cloudy. Abandoned.

L. P. P.

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1911phae.proj...600W

June 24. 1911. (Saturday).

Double Star =
Ber. Cat. 11477. (3 pairs measured.)
See fol. pages. Phot. R.
H. obs. Mc. Cullock rec.
Phot. R.

22	07	+60.0
14	16	
−7	√1	
+4	9	

(4D).

P. A. (4D) 73°; Dist. 123.″ Comp. √9, 7.√

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1911phae.proj..606N

June 24. 1911.

A Compared with D
Index left & above

8 24 5

87. 8 ∠ A ds
160. 2 73.2
275. 5 √√.√
331. 0 124.7 1.00

93. 2 √9.0 0.94
152. 2 76.2
265. 5 134.2 0.47
341. 7

356. 0 77.√
73. 5
184. 2 √7.6
241. 8 134.1 0.49

183. 8 ~~8. 7~~ 0.48
9 31 40 242. 2 ~~61. 5~~ √2.4
356. 2 75.2
72. 0 134.2 0.49

0.91

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1911phae.proj..600W

June 24. 1911.

D compared with E

Under right & above

8 35 55

173.2 < E dis.
256.2 Δ3.0
4.6 √6.0
60.6 139.0 0.79

186.0 √6.0 0.43
242.0
353.0 79.1
72.1 13√.1 0.47

82.2 79.0
161.2
275.0 √√.√
330.5 134.√ 0.49

8 42 10

93.4 √7.1 0.42
150.√
261.2 Δ4.0
345.2 141.1 0.7√

0.42

P. A. (DE) 34°, Dist. 136", Mags. √.9, 6.7

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1911phae.proj..606

June 24. 1911.

Index below
F compared with E

186.0 E dis.

8 46 10

240.0 ▽4.0
354.2 77.▽
71.7 131.▽ 0.9▽

177.0 76.0 0.96
253.0
7.2 ▽3.8
61.0 129.8 0.9A

95.0 ▽6.0
151.0
264.3 7▽.0
339.5 131.0 0.96

8

8 51 20

84.6 0.96
162.5 77.9
275.4 ▽3.6
329.0 131.▽ 0.9▽

0.96

Troubled in previous measurements more or less by clouds.

P.A. (87) 34°, Dist. 192". Nebs. ▽.9, 7.▽

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1911phae.proj..606W

~~Feb~~ June 24. 1911.

Double Star =
Bu. Cat. 7048
P.A. 210; Dist. 90." mags. 6.5, 7.2

14	49	0.0
14	26	
+0	37	

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1911phae.proj..60(W

June 24. 1911.

Index left & below

9 11 0

86.8 L N fol. & bts. dis
171.2 L4.4
276.0 6K.V
340.5 1K L.9 0.60

98.0 63.1 0.62
161.1
267.3 L3.7
351.0 1K 6.L 0.64

355.7 2K.L
80.5
190.3 V L.7
249.0 1K3.V 0.70

9 18 40

10.2 VV.L
66.0
175.0 L L.0
263.0 1K3.L 0.70

0.70

Mean 0.66

Troubled by clouds,
W's watch used for time
watch 1 min. 5 secs fast

Z. L. P.

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1911phae.proj..600M

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1911phae.proj..600W

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj..606W

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1911phae.proj..606W

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