KG
11365
581

1906phae.proj..582W

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1906phaO..proj..582W

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1906phae.proj..582V

KG/1365.58/

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1906phae.proj..582w

Sept. 27, 1906 (Thursday)

Iris

19	58	-13.1
19	53	
	-0 5	
11	5 5	

7 26 Iris follows comp. Star of Sept. 25 (= -13° 5573 (9.3) by 1 m. 2 sec. and is 9.'8 south of it.

α Ophiuchi Phot 3 Ht. Obs Bowie Rec

17	9	+1.3
20	17	
+ 3	8	

7" Crap used

Measurements on fol. page

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1906phae.proj..582W

Sept. 27, 1906

Index R & B

			228.0	var. dis	I
			←		
7	45	34	317.3	89.3	A
			58.6	68.4	
			127.0	157.7	-0.43
			235.8		-0.36
7	48	18	304.4	68.6	
			44.0	96.0	
			140.0 ~~+395~~	164.6	-0.29

Index L & A

			138.3		B
7	53	21	225.6	87.3	
			331.8	61.5	
			33.3	148.8	-0.60
			151.3		-0.60
7	56	53	213.6	62.3	
			318.7	86.2	
			44.9	148.5	-0.60
	202	126			
7	50	62			
5		-13			
12	50	49			

Mean -0.48

7481.5353

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1906phae.proj..582W

Sept. 27, 1906

Index Left

II

		136.1		
8	2	36	228.0	91.9 ^
			331.8	62.2 ^
			34.0	154.1 ^ −0.50 ^
			150.3	−0.54 ^
8	5	34	212.0	61.7 ^
			318.5	88.6 ^
			47.1	150.3 ^ −0.57 ^

B

Index R & B

		44.4		
8	9	44	139.8	95.4 ^
			235.8	73.6 ^
			309.4	169.0 ^ −0.21 ^
			57.4	−0.20 ^
8	13	35	128.4	71.0 ^
			222.6	98.9 ^
			321.5	169.9 ^ −0.19 ^

A

	29	149	^
8	7	52	^
5		−13	^
13	7	39	^

Mean −0.37 ^

7481.5469

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1906phae.proj..582W

Sept. 27, 1906

~~Index R & B~~

43.8 III

8 22 38	139.9	96.1°	
	236.1	73.0°	A
	309.1	169.1°	−0.20°
	56.5		−0.18
8 25 7	128.6	72.1°	
	222.8	98.6°	
	321.4	170.7°	−0.17°

~~Index L & A~~

	315.6		
8 30 ~~28~~	45.6	90.0°	B
	150.0	65.7°	
	215.7	155.7°	−0.46°
	329.7		
~~8 33. 18.~~	324.9	~~159~~	
	136.2	~~91.5~~	−0.50°
	~~227.7~~		
	318.5	86.0°	
8 44 0	44.5	66.1°	
121 73°	149.5	152.1°	−0.53°
8 30 33°	215.6		
5 −13°			
13 30 20°			

Mean −0.34°

7481.5627

As some error occurred in reading circle in ~~in~~ fourth set above, this set retaken.

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1906phae.proj..582W

Sept. 27, 1906

Index L & A

		327.6		IV
8	47	40	36.0	68.4'
			137.2	88.2'
			225.4	156.6' −0.45'
			317.4	−0.48'
8	50	44	43.6	86.2'
			149.3	66.7'
			216.0	152.9' −0.52'

Index R & B

		221.3		
8	54	2	321.4	100.1'
			59.1	66.3'
			125.4	166.4' −0.26'
			233.5	−0.23'
8	57	0	310.0	76.2'
			45.0	93.0'
			138.0	169.2' −0.20'

	208	86	'
8	52	22	'
5		−13	'
13	52	9	'

Mean −0.36'

7481.5779

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1906phae.proj..582W

Sept 27, 1906

Index R & B

		47.8		V
9	16	8	137.6	89.8^
			235.0	72.4^
			307.4	162.2^ -0.34^ A
			58.8	-0.36^
9	19	35	126.5	67.7^
			225.4	92.6^
			318.0	160.3^ -0.38^

Index L & A

			320.0	
9	24	15	43.8	83.8^
			150.4	63.6^
			214.0	147.4^ -0.63^ B
			329.7	-0.58^
9	27	25	35.3	65.6^
	86	83^	140.0	86.0^
9	21	52^	226.0	151.6^ -0.54^
5		-13^		
14	21	39^		

Mean -0.47^

7481.5983

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1906phae.proj..582w

Sept 27, 1906

Index L & A

		319.6			
9	34	25	43.0	83.4^	VII
			151.9	62.8^	
			214.7	146.2^	−0.65^
			329.8		−0.64^
9	39	0	33.6	63.8^	
			142.0	83.3^	
			225.3	147.1^	−0.63^

Index R & B

		227.6			
9	42	57	316.0	88.4^	
			60.7	61.8^	A
			122.5	150.2^	−0.57^
			238.0		−0.52^
9	46	31	305.6	70.6^	
			49.2	85.4^	
			134.6	156.0^	−0.46^

Mean −0.58^

	161	113	^	
9	40	43	^	
5		−13	^	
14	40	30	^	

D.J. 22 29
R.A +5 15
Dec +2.0
C.A 215.1 for B
Sprocket −8.5 A
−7.5 B
−7.0 b

Region getting rather low at end of series; object glass at top of lowest small shutter. Hour angle +5h 15m

7481.6114

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1906phae.proj..582W

Sept. 27, 1906

ε Aurigae Phot. 3 ✻ Obs. Bowie Rec.

28
4 53
23 5
5 48
6 12

+43.7

7" brass used

Index R & A

261.9 — vern. dist. A

10 40 24

282.9 21.0'
84.4 13.0'
97.4 34.0' −4.13'

265.7 −4.12'
278.7 13.0'
80.7 21.3'
102.40 34.3' −4.11'

Index L & B B

172.0
192.0 20.0'
354.9 12.9'
7.8 32.9' −4.20'

176.0 −4.25'
188.8 12.8'
351.8 18.6'
10.4 31.4' −4.30'

Mean −4.18'

10 50 23
90 47'
10 45 24'
5 −13'
15 45 11'

7481.6564

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1906phae.proj..582w

Sept. 27, 1906

S. T. 23h 40m
R. A. -5 15
Dec. +43.3
P. A. 176.7 Ver ⊗
Sprocket -8.5 A
" -7.5 ⊗
" -7.0 b

H's watch used for times tonight
Watch 13 sec. fast

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1906phae.proj..582w

Sept. 28, 1906 (Friday)

Iris

19	58	-13.1
19	55	
	3	
11	57	

7 26 0 Iris follows comp. Star of Sept. 25 = (-13° 55'3 (9.3)) by 1 m. 27 sec and is 10.'0 past of it

R X Hercules Phot J K Obs. Bowie Rec

18	16	+12.0
20	16	
2	0	

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1906phae.proj..582W

Sept. 28, 1906

Index R & B

61.0 ← var. dis

7	46	8	121.3	60.3
			247.3	46.8
			294.1	107.1 — 1.49
			68.8	— 1.52
7	49	54	114.7	45.9
			242.8	58.6
			301.4	104.5 — 1.55

Index Lat

334.6

7	53	24	29.5	54.9
			161.2	41.3
			202.5	96.2 — 1.75
			342.1	— 1.75
7	56	16	22.8	40.7
			154.4	55.5
			209.9	96.2 — 1.75

	204	102	
7	51	26	
5		-41	
12	50	45	

Mean — 1.64

7482.5353

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1906phae.proj..582W

Sept. 28, 1906

II

Index L & A

335.0

8	1	12	30.7	55.7^
			161.0	42.0^
			203.0	97.7^ −1.71^

342.4 −1.74^

8	4	24	21.2	38.8^
			153.3	56.7^
			210.0	95.5^ −1.77^

Index Q & B

240.8

8	8	42	299.6	58.8^
			71.2	41.3^
			112.5	100.1^ −1.65^

250.7 −1.60^

8	12	5	294.1	43.4^
			60.5	61.6^
			122.1	105.0^ −1.54^

	25	83	^
8	6	36	^
5		−41	^
13	5	55	^

Mean −1.67^

7482.5457

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1906phae.proj..582w

Sept. 28, 1906

Index R & B III

244.0

8 24 55 299.8 55.8'
42.5'
71.2 98.3' -1.70' A
113.7

251.5 -1.70'

8 28 24 293.6 42.1'
64.1 55.9'
120.0 98.0' -1.71'

Index L & A

153.3

8 32 43 209.4 56.1'
342.8 39.1' B
21.9 95.2' -1.78'

162.1 -1.80'

8 35 12 201.6 39.5'
335.5 54.0'
29.5 93.5' -1.82'

119 134'
8 29 78'
5 -41'
13 29 37'

Mean -1.75'

7482.5622

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1906phae.proj..582w

Sept. 28, 1906

Index L & A

		156.7		~~IV~~
8	55	54	207.3	50.6
			342.6	38.4
			21.0	89.0 -1.94
			~~163.3~~	
	~~58~~	~~17~~	~~2020~~	-1.96
			~~3368~~	
			156.2	
9	1	8	207.1	50.9
			343.6	36.6
			20.2	87.5 -1.98

Index R & B

			71.8	
9	4	0	112.0	40.2
			243.4	55.6
			299.0	95.8 -1.76
			63.2	-1.74
9	6	10	119.5	56.3
			251.5	40.8
			292.3	97.1 -1.73
35	66	72		
8	61	48		
5		-41		
14	1	7		Mean -1.55

7482.5841

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1906phae.proj..582

Sept. 28, 1906

9 10 0 Clouds.

Index R+B V

252.0

9 19 45 292.8 40.8' A
64.7 54.4'
119.1 95.2' -1.78'

244.0 -1.80'

9 22 2 298.9 54.9'
73.0 39.0'
112.0 93.9' -1.81'

Index Left

157.0

9 25 48 207.6 50.6'
344.2 35.9' B
20.1 86.5' -2.01'

162.8 -2.01'

9 28 30 200.9 38.1'
338.5 48.5'
27.0 86.6' -2.01'

Mean -1.90'

9 94 125'
9 23 61'
5 -41'
14 23 20'

7482.5995

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1906phae.proj..582W

Sept. 28, 1906

Index L & A VI

			159.0		
9	45	40	207.0	48.0'	
			342.7	38.1'	
			20.8	86.1'	-2.02'
			163.0		-2.03'
9	47	53	200.7	37.7'	
			338.0	47.6'	
			25.6	85.3'	-2.04'

Index R & S

			65.1		
9	51	15	119.6	54.5'	
			253.6	37.4'	
			291.0	91.9'	-1.86'
			72.5		-1.88'
9	54	10	111.0	38.5'	
	197	118'	245.9	51.7'	
9	49	44'	297.6	90.2'	-1.91'
5		-41'			
14	49	3			Mean -1.96'

S. 3. 22h 52m

H.A +4 25

Dec +13.0

P.A 149.5 Vor S

Sprocket -4.5 S

" -3.5 b

7482.6174

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1906phae.proj..582w

Sept. 25, 1906

Fourth Hyperstar 35° 1539

30 6	27	+38.6
23	7	
7	20	
4	40	

Abandoned.

Fourth Hyperstar +25 205 Phot Jr. Obs. Barnard Rec.

25	8	+25.0
23	36	
1	32	
10	28	

For measurements see fols. page.

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1906phae.proj..582w

Sept 25. 1906

Index R & A

255.0 ~~4th type~~ obs

11 1 0

289.4 34.4'
67.0 47.5'
114.5 81.9' -2.14"

A

247.4 -2.13"
297.0 49.6'
75.2 32.8'
108.0 82.4' -2.12"

Index L & B

167.6
199.8 32.2'
338.6 44.5'
23.1 76.7' -2.29"

B

159.3 -2.34"
203.7 44.4'
347.6 28.9'
16.5 73.3' -2.40"

Mean -2.24"

11 8 16
9 16 '
11 4 38 "
5 -41 "
16 3 57 "

7482.6694

S.T. 23h 58m
H.A. -1 15
Dec. +24.9
P.A. 213.9 on B
Sprocket -3.5 A
" -2.5 B
" -2.0 b

Use watch used for times tonight
Watch 41 sec. fast

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1906phae.proj..582

Oct. 1, 1906 (Monday)

Iris

19	58	-13.1
20	10	
0	12	

7 33 0 Iris prec. -13° 5593 (8.0) by 50 sec. and is 0.'6 north of it.

Fourth Type Star +59°2810 Phot. I St. Obs. Bonn Rec.

23	54	+60.4
20	44	
3	10	
8	50	

9.5 b ap used

For measurements see fol. pages

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1906phae.proj..582W

Oct. 1, 1906

Index Right

45.6 ← 4th type dis

8 3 30	135.0	92.4'	A
	235.8	72.8'	
	308.6	165.2'	−0.25'

57.4		−0.24'
128.5	71.1'	
222.4	97.6'	
320.0	168.7'	−0.21'

Index Left

314.5		
53.5	99.0'	B
143.0	79.0'	
222.0	178.0'	−0.04'

323.1		−0.08'
40.2	77.1'	
133.0	95.8'	
228.78	172.9'	−0.13'

Mean −0.16'

8	11	8	
	14	38	'
8	7	19	'
5		−9	'
13	7	10	'

7485.5466

Above measurements made through some rather thin clouds. Brightness of images, however, was quite constant and great care was exercised so that observations are considered good.

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1906phae.proj..582

Oct. 1, 1906

S.T. 21h 14m
H.A. -2 43
Dec. 59.1
P.A. 79.0 Dec S
Sprocket -0.5 S
" +0.5 b

H's watch used for times.
Watch 9 sec. fast

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1906phae.proj..582W

Oct. 2. 1906 (Tuesday)

Iris

19	58	-13.1
20	8	
0	10	

7 18 0 Iris prec. -13° 5593(8.0) by 16.5 sec. and is 0.5 north of it

Fourth Type Star 34° 56 Phot. J H. Obs. Bowie Rec

24	29	+32.9
20	29	
4	0	
8	0	

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1906phae.proj..582

Oct. 2, 1906.

Index R.A.

	323.9 ← 4th ~~type~~ dia	A
8 0 8	43.7	79.8 ^
	150.8	60.1 ^
	210.9	139.9 ^ −0.78 ^
	331.8	−0.72 ^
	34.1	62.3 ^
	139.2	83.3 ^
	222.5	145.6 ^ −0.66 ^

Index Dec.

	227.0	
	317.4	90.4 ^ B
	59.2	67.2 ^
	126.4	157.6 ^ −0.43 ^
	238.8	−0.44 ^
	305.8	67.0 ^
	48.3	88.7 ^
	137.0	155.7 ^ −0.46 ^

Rec 8 10 25

	10	33	^
8	5	16	^
5	1	5	^
13	4	11	^

Mean −0.58 ^

S.J. 21h 16m

R.A. −3 8

7486.5445 Dec. +34.2

P.A. 156.5 Ver. B

Sprocket −3.5 A

" −2.5 B

" −2.0 C

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1906phae.proj..582W

Oct. 2, 1906

Fourth ~~Type~~ Star +9°4369 Phot. 3 H. Obs. Bowie Rec.

19 44 +8.5 Color 3 in photometer

21 48

2 4

Index Rod

146.9 ← 4th ~~type~~ dia. A

9 7 40

216.6 69.7 ^

334.7 52.9 ^

122.6 ^ -1.14 ^

27.6

153.9 -1.13 ^

207.4 53.5 ^

327.0 69.9 ^

123.4 ^ -1.12 ^

36.9

Index Rod B

50.0

132.4 82.4 ^

240.1 64.9 ^

305.0 147.3 ^ -0.63 ^

59.7 -0.66 ^

9 17 20

123.8 64.1 ^

24 60 ^

230.6 80.4 ^

9 12 30 ^

5 1 5 ^

311.0 144.5 ^ -0.68 ^

14 11 25 ^

Mean -0.90 ^

7486.5913

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1906phae.proj..582W

Oct. 2, 1906

S.J. 22^h 26^m
R.A. + 2 28^s
Dec. + 9.5
P.A. 104.9 Ver B
Sprocket − 0.5 B
" +0.5 b

Fourth Type Star +36° 3243 Phot. J St. Obs. Bowie Rec.

15	40	+37.4
22	30	
3	50	

Measurements on fol. page

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1906phae.proj..582W

Oct. 2, 1906

Index Ld A

	235.0 ← 4th type dis		
9 45 38	310.0	75.0 ^	B
	61.8	58.0 ^	
	119.8	133.0 ^	−0.92 ^
	243.2		−0.86 ^
	304.0	60.8 ^	
	53.4	77.3 ^	
	130.7	138.1 ^	−0.81 ^

Index Ld B

	141.7		
	223.4	81.7 ^	
	329.5	63.5 ^	
	33.0	145.2 ^	−0.67 ^ A
	152.3		−0.70 ^
	213.5	61.2 ^	
	322.1	80.3 ^	
	42.4	141.5 ^	−0.74 ^
		Mean	−0.78 ^

9	54	8	
	99	46	^
9	49	53	^
5	1	5	^
14	48	48	^

S. 3. 23 2
H. A. +4 21
Dec. +37.0
P. A. 235.2 Ver. B
Sprockets +0.5 B
" +1.5 b

7486.6173

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1906phae.proj..582W

Oct. 2, 1906

Fourth Type Star +38° 1539

30h	27	+38.6
23	12	
7	15	
4	45	

Abandoned.

Fourth Type Star +2° 4709 Phot. 3 H. Obs Bowie Rec

23	39	+2.7
23	23	
	16	
11	44	

9.5 blue used
Color 5 in photometer

For measurements see fol. page

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1906phae.proj..582W

Oct. 2, 1906.

Index Left

77.0 ← 4th typo dis

10 40 8

106.5	29.5 ^	B
260.5	24.3 ^	
254.8	53.8 ^	−3.11 ^

78.5 −3.04 ^

105.0	26.5 ^	
257.1	30.5 ^	
287.6	57.0 ^	−2.98 ^

Index Right

348.0		
15.5	27.5 ^	A
170.6	22.5 ^	
193.1	50.0 ^	−3.27 ^

350.3 −3.26 ^

10 48 56

	88 64	^
10	44 32	^
5	1 5	^
15	43 27	

14.7	24.4 ^	
168.8	26.2 ^	
195.0	50.6 ^	−3.24 ^

Mean −3.15 ^

S.T. 23h 56m

H.A. +0 13

7486.6552 Dec. +3.0

P.A. 166.0 Var B

Sprocket −9.5 A

" −8.5 B

" −8.0 b

It's watch used for times tonight

Watch 1 m. 5 sec. fast

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1906phkd.proj.:Sep

Oct. 2, 1906.

Dis. Jups. III Phot. & V. O bs. Bowie Rec.
Comp. with more remote of two Sats. (before eclipse)
on prec. side = Sat. II

S. a b. 1182			S. 394		
11	18	58.2	11	19	0.0
11	19	58.1	11	20	0.0

11	44	50 ^	11	44	19
		+4 ^		"	36
11	44	54 ^		"	55
				45	31
11	46	38 ^		46	2
		+4 ^		"	20
11	46	42 ^		"	55
				47	14
11	49	10 ^		48	50
		+4 ^		49	0
11	49	14 ^		"	19
				"	32

104.0 ^	222.0	
106.7 ^	326.0	
210.7 ^		
-0.6 ^ 105.4 ^	220.1	1
	326.8	
104.0 ^	221.5	
107.6 ^	325.5	2
211.6 ^		
-0.6 ^ 105.8 ^	220.0	
	327.6	
	Fog thicker	
107.9 ^	219.9	
106.4 ^	327.8	3
214.3 ^		
-0.7 ^ 107.2 ^	220.3	
	326.7	

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1906phae.proj..582W

Oct. 2, 1906

			11	50	9	109.5^ 218.5	
11	50	33^		"	23	108.1^ 328.0	4
		+5^				217.6^	
11	50	38^		"	40	-0.7^108.8^ 218.0	
				"	59	326.1	
				51	28		
						104.7^ 220.8	
11	51	48^		"	40	104.1^ 325.5	
		+5^				208.8^	
11	51	53^		"	53	221.0	5
						-0.6^104.4^	
				52	12	325.1	
					30		220.9
						106.2^	
11	53	0^			49	108.9^ 327.1	
		+5^				215.1^	
11	53	5^		53	6	220.0	6
						-0.7^107.6^	
					37	328.9	
					54		221.4
						106.7^	
11	54	22^		54	14	105.7^ 328.1	
		+5^				212.4^	
11	54	27^			29	222.0	7
						-0.6^106.2^	
					49	327.7	
				55	12		220.1
						108.4^	
11	55	40^			29	103.5^ 328.5	8
		+5^				211.9^	
11	55	45^			47	222.5	
						-0.6^106.0	
				56	14	326.0	
					30		225.1
						99.0^	
11	56	50^			40	99.2^ 324.1	
		+5^				198.2^	
M	56	55^			53	225.0	9
				57	15	-0.3^99.1^ 324.2	

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1906phae..proj...582

Oct. 2, 1906

			11	57	33	99.0^	225.0	
11	57	54^		"	43	99.3^	324.0	
		+5^				198.3^		
11	57	59^		58	2	−0.4^ 99.2^	224.8	
				"	18		324.1	
				59	1	98.2^	224.8	
11	59	47^		"	26	99.0^	323.0	
		+5^				197.2^		
11	59	52^	12	0	6	−0.3^ 98.6^	225.0	
				"	34		324.0	
				1	3		225.8	
12	1	40^		"	27	97.4^ 86.0^	323.2	
		+6^				183.4^		
12	1	46		"	50	−0.1^ 91.7^	228.8	
				2	20		314.8	
					35		233.9	
12	3	8^			57	82.1^ 76.1^	316.0	
		+6^		3	22	158.2^	235.9	
12	3	14			39	+0.4^ 79.1^	312.0	
	4	3^			57	+0.8^ 69.2^	235.8	
	4	20^		4	14	+0.8^ 69.5^	306.0	
	4	44^			38	+0.9^ 67.5^	238.5	
	4	58^			52	+0.9^ 66.3^	306.0	
	5	27^		5	21	+1.0^ 65.2^	239.7	
	5	41^			35	+1.3^ 57.6^	304.9	
					55		2	
	6	13^		6	7	+1.4^ 54.6^	247.3	
	6	36^			30	+1.7^ 49.9^	301.9	

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1906phae.proj..582W

Oct. 2, 1906

12	6	57^12	6	51	+2.1^41.8^	252.0	
	7	26^	7	20		293.8	
			"	31		not seen later	
				Limits of Vis.			
			7	56	48.3^	251.7	
12	8	25^	8	20	45.0^	300.0	
		+6^			93.3^		
			"	35	+1.8^46.6^	251.0	
12	8	31^	"	50		296.0	

Jup. rather low. Very much fog. Some of the time during eclipse Jup. visible to the naked eye and some of the time Jup. entirely invisible. Sats in telescope faint throughout and even then, of varying brightness. Observations dif. throughout eclipse; settings made slowly and as carefully as possible but all the settings except perhaps the very first were very labored.

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1906phae..proj..582W

Oct. 2 1906

B + b 1152			B 394		
12	23	52,5	12	24	0.0
12	24	52,4	12	25	0.0

∴ In preceding eclipse

From $11^h\ 32^m\ 14^s$ to $11^h\ 49^m\ 32^s$ add 4 secs.
" 11 49 32 " 12 1 32 " 4 "
" 12 1 32 " 12 12 22 " 6 "
" 12 12 22 " 12 23 52 " 9 "

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1906phae.proj..582w

Oct. 4, 1906 (Thursday)

Iris

19	58	−13.1
20	18	
0	20	

7 20 0 Iris follows −13° 5593 (8.0) by 53 sec and 0.6 north of it.

Fourth Type Star −16° 5272 Phot. J. H. Oberlin Berl

19	13	−16.2
20	43	
1	30	

Full aperture used

Solar 5 in large tel
" 6 " phot.

7
7
5
12
74

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1906phae.proj..582W

Oct. 4, 1906.

Index Above

	333.9 ←	~~4th type~~ dis	
7 52 11	31.1	57.2'	
	160.0	43.6'	A
	203.6	100.8'	-1.64'
	343.0		-1.72'
	22.9	39.9'	
	153.9	54.8'	
	208.7	94.7'	-1.79'

Index Below

	240.8		
	302.4	61.6'	
	68.2	47.5'	B
	115.7	109.1'	-1.44'
	248.0		-1.42'
7 59 56	296.0	48.0'	
111 6.7'	60.7	62.8'	
7 55 64'	123.5	110.8'	-1.40'
5 -6'			
12 55 58'			Mean -1.57'

S. J. 21 15

L. A. +2 0

7488.5389 Dec. -15.6

P. A. 115.2

Sprocket -1.5 A

" -0.5 B

" 0.0 b

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1906phae.proj..582w

Oct. 4. 1906.

Fourth Type Star +68° 617 Phot 3 ft. Obs Bowie Rec
10 35 Color 5 in large tel.
21 25 " 6 " phot.
10 50

Index R & A

8 58 30 253.8 ~~250.4~~ ← with type dis.
~~8 35 32~~ 292.7 ~~294.5~~ 38.9" A
77.8 ~~77.6~~ 27.7"
105.5 ~~106.5~~ 66.6" -2.62"

258.1 -2.61"
287.3 29.2"
73.0 38.0"
111.0 67.2" -2.60"

Index L & B

167.4
199.0 31.6" B
350.0 24.3"
14.3 55.9" -3.02"

170.5 -2.94"
8 46 0 195.2 24.7"
10 4 30" 344.8 35.1"
8 5 2 15" 19.9 59.8" -2.87"
5 -6"
13 52 9

Mean -2.78"

7488,5779

Sky rather foggy especially low down much trouble experienced in ~~taking~~ first sett and

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1906phae.proj..582w

Oct. 4; 1906.

this sett consequently retaken.

L J. 22 15
H. A +11 30
Dec +68.6
P. A. 240.1 Ser B
Sprocket -2.5 B
" -1.5 b.

Fourth Type Star 61° 667 Phot J H. Obs Bowie Res

27 33 +62.9
22 33
5
7 0

Solar 2 in large telescope

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1906phae.proj..582W

Oct. 4, 1906.

Index R & A

52.0 ← 4th type dis

9	46	30	129.9	77.9″
			242.9	56.1″
			299.0	134.0″ −0.90″

A

66.8 −0.82″

115.6 48.8″

225.4 92.6″

318.0 141.4″ −0.75″

Index L & B

~~324.0~~

~~47.38~~

~~163.7~~

~~10 46 10~~ ~~203.0 6.9~~

340.0

28.5 48.5″

148.2 67.2″

215.4 ~~217.67.0~~ 115.7″ −1.29″

B

10	50	10	
19	96	40	″
9	78	20	″
5		6	″
15	8	14	″

Means −1.06″

7488,6307

Measurements of above partial group extremely difficult throughout. Fog very dense and stars only seen at times and by casual glimpses, observer waiting for fog to grow thin a little. Third set retaken as

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1906phae.proj..582W

Oct. 4, 1906.

S. J. 0^h 1^m
S. A. -3 55
Dec. +61.2
P. A. 184.5 Sec B
Sprocket -4.5 A
" -3.5 B
" -3.0 b

stars were seen better, they being almost invisible in previous third sett; they being rejected. Not considered advisable to try a fourth sett. Obs. $\frac{1}{3}$ wt.

H's watch used for times
Hratch 6 sec. fast

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1906phae.proj..582W

Oct. 5 1906 (Friday)

Iris

19	58	-13.1
20	25	
	27	

7 23 0 Iris follows -13° 5593 (8.0) by 1 m. 33 sec and is 0.'8 north of it

Fourth Type Star +49° 41 Phot J K. Obs. Bonn Rev

249	10	+49.5
20	45	
3 8	25 35	

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1906phae.proj..582W

Oct. 5, 1906.

Index R & S

135.5 bromp Star dis

7 56 28	229.4	93.9°
	327.4	69.3°
	36.7	163.2° +0.32°

146.3 +0.32°

	217.56.0	69.7°
	316.9	93.5°
	50.4	163.2° +0.32°

Index L & A

43.2

	143.0	99.8°
	236.0	72.5°
	308.5	172.3° +0.14°

53.0 +0.11°

8 7 38	131.5	78.5°
15 63 66	223.0	97.4°
7 61 63	320.4	175.9° +0.08°
5 +4		
13 2 7		Mean +0.22°

S.J. 21 29

H.A. −2 45

7489.5432 Dec. +49.0

P.A. 78.0 Dec. S

Sprocket −0.5 S

" +0.5 b

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1906phae.proj..582w

Oct. 5, 1906

Fog ~~thos~~ becoming thick and ~~steadily~~ growing thicker ~~No~~ chance for anything further

It's watch used for times
Watch 4 sec ~~fast~~ slow

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1906phae.proj..582W

Oct. 8 1906 (Monday)

Iris Phot. 3 ft. Obs. Bowie Rec.

19	58	-13.1
20	38	
	40	

I

Iris follows -13° 6' 11 (9.1) by 47. sec
and is 0.7 north of it. Comp. Star = -13° 6' 18 (9.3)

Index Cat

			126.0	comp star dis	B
7	43	28	237.5	111.5 ^	
			317.9	89.5 ^	
			47.4	201.0 ^	
				159.0 ^	-0.40 ^
			135.8		
7.	46	5	227.5	91.7 ^	-0.40 ^
			307.0	109.9 ^	
			56.9	201.6 ^	
			Index R+B	158.4 ^	-0.41 ^
			224.2		
7	51	0	321.7	97.5 ^	
			32.8	119.2 ^	A
			152.0	216.7 ^	
				143.3 ^	-0.71 ^
7	59	57	224.8	215.5	-0.66 ^
	~~53~~	~~55~~	321.2	326.9	
	199	90 ^	35.6	45.9	96.4 ^
7	49	68 ^	150.9	142.2	115.3 ^
5		-23 ^			211.7 ^
12	49	45 ^			148.3 ^ -0.61

Means -0.53 ^

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1906phae.proj..582W

Oct. 5, 1906

Index R+B

140.8 ← Iris dis.

8	6	54	222.0	81.2'
			329.4	65.6'
			35.0	146.8' −0.64'

150.2 −0.60'

8	10	16	215.3	65.1'
			319.7	85.9'
			45.6	151.0' −0.56'

Index L+A

47.6

8	15	8	134.9	87.3'
			237.2	72.0'
			309.2	159.3' −0.39'

56.0 −0.35'

8	15	36	126.8	70.8'
	49	114'	224.9	92.8'
8	12	44'	317.7	163.6' −0.31'
5		−23'		
13	12	21'		

Mean −0.48'

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1906phae.proj..582W

Oct. 8, 1906

Index L+A

49.5

8 24 50 . 134.8 85.3'
235.4 74.7'
310.1 160.0' -0.38' B

55,8 -0.36'

8 27 37 127,0 71.2'
228,8 90.6'
319.4 161.8' -0.35'

Index R+B

319,0

8 32 24 45.0 86.0'
149,8 67.6'
217,4 153.6 -0.50' A

325.7 -0.49'

8 36 0 36.0 67.3'
139.1 87.4'
226.5 154.7' -0.48'

119 111'
8 29 73'
5 -23'
13 29 50'

Mean -0.42'

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1906phae.proj..582W

Oct. 8, 1906

Index R & B IV

318.0

8	45	18	46.5	88.5 ^ A
			148.1	68.3 ^
			216.4	156.8 ^ -0.44 ^

327.5 -0.44 ^

8	49	24	38.8	71.3 ^
			137.8	86.0 ^
			223.8	157.3 ^ -0.43 ^

Index L & A

226.3

8	55	32	318.5	92.2 ^ B
			56.3	72.6 ^
			128.9	164.8 ^ -0.29 ^

236.2 -0.28 ^

8	59	20	308.6	72.4 ^
			44.7	93.3 ^
			198.0	165.7 ^ -0.27 ^

	208	94	^
6	52	24	^
5		-23	^
13	52	1	^

Mean -0.36 ^

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1906phae.proj..582W

Oct 8 1906

Index L & R

V

9	8	56	227.1	
			318.4	91.3'
			57.6	69.0'
			126.6	160.3' −0.38'
			235.8	−0.35'
9	13	5	307.9	72.1'
			45.7	90.8'
			136.5	162.9' −0.32'

Index R & B

			139.4	
9	19	32	226.0	86.6'
			327.4	68.8'
			36.2	155.4' −0.47'
			149.5	−0.46'
9	23	30	216.4	66.9'
			317.0	89.2'
			46.2	156.1' −0.46'

	63	123	'
9	15	76	'
5		−23	'
14	15	53	'

Mean − 0.40'

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1906phae.proj..582W

Oct. 8, 1906

Index R+B VI

			138.9		
9	32	0	224.0	85.1°	A
			328.8	66.2°	
			35.0	151.3°	−0.55°
			149.0		−0.53°
9	35	55	215.0	66.0°	
			319.4	87.5°	
			46.9	153.5°	−0.51°

Index L+A

			48.9		
9	40	48	136.5	87.6°	B
			238.7	69.7°	
			308.4	157.3°	−0.43°
			56.2		−0.38°
9	44	6	128.5	72.3°	
			226.5	90.5°	
			317.0	162.8°	−0.33°

	151	109°
9	37	72°
5		−23°
14	37	49°

Mean −0.46°

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1906phae.proj..582W

Oct. 8, 1906

Index L & A

VII

47.0

9 51 52	138.5	91.5'		B
	237.0	70.4'		
	307.4	161.9'	-0.34'	
	56.8		-0.33'	
9 55 33	128.2	71.4'		
	226.4	91.6'		
	318.0	163.0'	-0.32'	

Index R & B

	319.8			
10 1 28	42.2	82.4'		A
	151.9	63.0'		
	214.9	145.4'	-0.67'	
	328.7			
10 5 53	37.5	68.8'	-0.58'	
	139.3	85.5'		
	224.8	154.3'	-0.49'	

38	112	166'
9	58	42'
5		-23'
14	58	19'

Mean -0.46'

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1906phae.proj..582W

Oct. 8, 1906

VIII

321.0
10 21 48 43.2
151.5
215.2

S. J. 23 48
H. A. +3 38
Dec -13.0
C.A 128.5 Ser B

Sprocket not read as Yr. wished to put on ordinary eye piece in same position of telescope and check Iris.

10 35 0 Iris now follows -13° V 611 (9.1) by 53. sec. and is 0.7 north of it; hence, the objects observed for Iris this evening were Iris. Atmosphere rather cold after the clearing up of the storm seeing rather poor; observations rather difficult, emergent pencils gave some trouble; moon (at the last quarter) rose during observations; region rather low at end of observations. Eighth and last attempted group could not be completed on account of low altitude and glare from rising moonlight, all possible care exercised during observations, setting made slowly and with as much care as possible.

It's watch used for times tonight to watch 23 sec fast.

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1906phae.proj...582W

Oct. 10 1906 (Wednesday)

Iris Phot 3 ft. Obs Bovie Rec

19	58	-13.1
20	44	
+0	46	

7 26 0 Iris follows -13° v611 (9.1) by 2m 19 sec and is 2.'1 north of it

7 28 0 Iris follows Comp. Star by 24 sec and is about 12' north of it

Same Comp. Star used as on Oct. 8
Comp. Star = -13° v612 (9.3).

Measurements on fol. page

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1906phae.proj..582W

Oct 10, 1906

Index R.A. I

320.9 ← Iris dis

7 40 18	43.1	82.2	
	148.2	66.2	
	214.4	148.4	−0.61
	328.5		−0.57
7 43 30	36.1	67.6	
	140.0	84.6	
	224.6	152.2	−0.53

Index L & B

	227.8		
7 48 10	313.7	85.9	
	57.4	71.1	
	128.5	157.0	−0.44
	235.8		−0.34
7 50 52	308.5	72.7	
	45.5	94.0	
	139.5	166.7	−0.25

Mean −0.46

	181	110	
7	45	42	
5	−1	−27	
12	44	15	

7494.5307

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1906phae.proj..5829

Oct. 10, 1906.

Index L & B II

		226.2		
7	56	28	314.3	88.1°
			54.0	73.4°
			127.4	161.5° −0.35°
			236.7	−0.36°
8	1	6	308.3	71.6°
			47.5	88.4°
			135.9	160.0° −0.38°

Index R & A

			141.0	
8	4	55	224.1	83.1°
			329.4	67.0°
			36.4	150.1° −0.57°
			151.0	−0.54°
			218.0	67.0°
			318.5	86.9°
			45.4	153.9° −0.50°

8	8	2	
31	69	91	°
7	62	38	°
5	−1	−27	°
13	1	11	°

Mean −0.45°

7494.5425

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1906phae.proj..582W

Oct. 10, 1906

Index A & A III

139.5

8 15 10 226.0 86.5' A

328.6 70.0'

38.6 156.5' −0.45'

147.3 −0.44'

8 18 2 216.0 68.7'

317.6 88.0'

45.76 156.7' −0.44'

Index A & B

49.7

8 23 52 135.5 85.8' B

237.6 67.4'

blonde 305.0 153.2' −0.51'

Stars gone

56.8 −0.43'

8 30 54 129.5 72.7'

226.7 88.8'

315.5 161.5' −0.35'

Mean −0.44'

	86	118	'
8	21	60	'
5	−1	−27	'
13	20	33	'

7494.5560

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1906phac.proj.:592

Oct. 10, 1906

8 59 0 A little clearer.

Index L + S IV

9 2 0 blinds, stars gone

48.5

9 7 20	134.8	86.3		
	236.6	68.4		
	305.0	154.7	−0.48	
	55.0		−0.46	
9 13 10	126.9	71.9		
	229.7	85.5		
	315.2	157.4	−0.43	

Index R + A

	318.0			
9 20 48	43.4	85.4		A
	149.2	66.8		
	216.0	152.2	−0.53	
	326.2		−0.50	
9 25 18	38.8	72.6		
	139.9	83.0		
	222.9	155.6	−0.47	

	65	96	
9	16	39	
5	−1	−27	
14	15	12	

Means −0.48

7494.5938

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1906phae.proj..582w

Oct. 10, 1906

Index R & A V

			319.3		
9	48	44	42.8	83.5′	
			149.4	69.0′	A
			218.4	152.5′ −0.53′	
			327.0		−0.51′
9	52	35	37.7	70.7′	
			141.0	83.8′	
			224.8	154.5′ −0.49′	

Index L & B

			229.6		
9	59	24	314.1	84.5′	
			56.0	69.6′	B
			125.6	154.1′ −0.50′	
			238.3		−0.50′
			307.8	69.5′	
			48.1	84.9′	
			135.9	154.4′ −0.49′	

10	2	44	
37	161	147	′
9	55	52	′
5	−1	−27	′
14	54	25	′

Mean −0.50′

7494.6211

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1906phae.proj..582W

Oct. 10, 1906

Index L + S

VI

50.3

10	20. 2	134.0	83.7^		
		240.0	65.5^		
		305.5	149.2^	−0.59^	
		56.0		−0.54^	
10	24 2	126.9	70.9^		
		231.0	82.7^		
		313.7	153.6^	−0.50^	

Index R + A

		319.8			
10	29 8	46.3	86.5^		
		147.9	66.9^		
		214.8	153.4^	−0.51^	
		326.4		−0.52^	
10	33 24	37.2	70.8^		
	106 36 ^	141.8	81.2^		
10	26 39 ^	223.0	152.0^	−0.54^	
5	−1 −27 ^			Mean −0.53^	
15	25 12 ^				

R. A. 0^h 13^m

Dec. +4 3

7494.6425 Dec. −13.0

P. A. 217.8 for S

Synchrist −1.5 A

" −0.5 S

" 0.0 6

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1906phae.proj..582W

Oct. 10, 1906

10 56 0 Iris now follows Comp. ~~Star~~ by 30 sec. ~~and~~ It has also moved very perceptibly ~~with~~ reference ~~to~~ a faint ~~star~~ near it, hence object observed for Iris, was Iris 7

Observations throughout evening were rather labored and difficult, troubled also at times by clouds. In third group observations in last half of said group were made through more or less cloud observer waiting for images ~~to~~ steady as much as possible. This group 1/3 weight. In the remaining groups ~~the~~ sky was more or less murky, especially at times, rendering observations rather difficult, region also getting low at ~~the~~ last. The greatest possible care however exercised and settings made very slowly. 7

It's watch used for times tonight
Watch 1 m. 27 sec. fast 7

7
7
5
12
74

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1906phae.proj..582W

Oct. 11, 1906 (Thursday)

Iris Phot 3 W. Obs. Bowie Rec.

19 58 -13.1
20 44
0 46 = -13° 56' 18" (9.3)

Same b. & used as on last night

7 17 0 Iris follows comp. star by 1 m. 13 sec. and is 12'.4 north of it

			Index R.A		
			138.2		I
7	33	30	225.3	87.1'	A
			329.0	67.5'	
			36.5	154.6'	-0.49'
			147.7		-0.52'
7	36	49	214.6	66.9'	
			319.8	85.1'	
			44.89	152.0'	-0.54'
			Index L+B		
			458.6		
7	45	37	136.8	88.2'	B
			236.8	71.6'	
			308.4	159.8'	-0.38'
			53.8		-0.35'
7	49	14	128.6	74.8'	
			227.0	88.4'	
			315.4	163.2'	-0.32'

	163	130	'
7	40	78	'
5	-1	-17	'
12	40	1	'

Mean -0.44'

7495.5278

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1906phae.proj..582W

Oct. 11, 1906.

Index L & B II

47.0

7 58 25 136.3 89.3^ B
237.0 73.1^
310.1 162.4^ -0.33^

54.7 -0.32^

8 2 32 130.4 75.7^
227.4 87.2^
314.6 162.9^ -0.32^

Index R & A

321.0

8 7 14 43.5 82.5^ A
146.1 65.9^
215.0 151.4^ -0.55^

327.9 -0.50^

8 11 27 37.9 70.0^
31 78 101 ^ 138.8 86.0^
7 64 55 ^ 224.8 156.0^ -0.46^
+5 -1 -17 ^
13 3. 38 ^

Means -0.41^

7495.5442

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1906phae.proj..582w

Oct. 11, 1906

Index R × A

III

317.5

8	18	33	45.2	87.7 ^
			145.64	70.9 ^
			216.3	158.6 ^ −0.41 ^

A

328.4 −0.40 ^

8	22	52	38.3	69.9 ^
			136.5	89.2 ^
			225.7	159.1 ^ −0.40 ^

Index L × B

227.0

8	29	14	315.6	88.6 ^
			56.5	72.7 ^
			129.2	161.3 ^ −0.36 ^

B

236.0 −0.36 ^

8	34	2	310.0	74.0 ^
			49.8	86.7 ^
			136.5	160.7 ^ −0.37 ^

	103	101	^
8	25	70	^
5	−1	−17	^
13	24	53	^

Mean −0.38 ^

7495.5589

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1906phae.proj..582W

Oct. 11, 1906

Index L & B

IV

229.6

8 46 48 — 313.0 — 83.4°

54.8 — 74.7°

129.5 — 158.1 — -0.42°

B

238.0 — -0.37°

8 53 0 — 310.6 — 72.6°

47.0 — 90.5°

137.5 — 163.1° — -0.32°

Index R & A

138.5

8 59 9 — 225.8 — 87.3°

327.6 — 70.4°

38.0 — 157.7° — -0.43°

A

147.0 — -0.44°

9 3 48 — 216.2 — 69.2°

33 161 105° — 318.8 — 87.6°

8 55 41° — 46.4 — 156.8 — -0.44°

5 -1 -17°

13 54 24°

Mean -0.40°

7495.5795

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1906phae..proj..582W

Oct 11 1906

Index Q & A V

		141.5		
9	11	11	226.6	85.1^ A
			328.1	67.9^
			36.0	153.0^ −0.52^
			147.0	−0.48^
9	14	46	216.6	69.6^
			319.5	86.8^
			46.3	156.4^ −0.45^

Index L & B

			48.0	
9	20	55	135.41	87.1^ B
			237.5	70.5^
			305.0	157.6^ −0.43^
			57.8	−0.42^
9	24	52	129.5	71.7^
			227.8	87.4^
			315.2	159.1^ −0.40^

	69	164	^
9	17	56	^
5	−1	−17	^
14	16	39	^

Mean −0.45^

7495.5948

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1906phae.proj..582W

Oct. 11, 1906

Index L & B VI

47.4

9 31 22 — 134.0 — 86.6' — B

237.8 — 69.7'

307.5 — 156.3' — −0.45'

55.0 — −0.46'

9 35 2 — 126.0 — 71.0'

229.6 — 84.6'

314.2 — 155.6' — −0.47'

Index R & A

319.4 — A

9 41 0 — 45.5 — 86.1'

150.0 — 65.6'

215.6 — 151.7' — −0.54'

330.9 — −0.54'

9 45 0 — 38.0 — 67.1'

139.6 — 84.2'

223.8 — 151.3' — −0.55'

152 24 '

9 38 6 '

5 −1 −17 ''

14 36 49

Mean −0.50'

7495.6089

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1906phae.proj..582W

Oct. 11. 1906

Index R & A

VII

	321.5		
9 56 21	41.9	80.4°	A
	147.0	69.9°	
	216.9	150.3°	-0.57°
	326.7		-0.55°
9 59 36	37.5	70.8°	
	141.4	81.6°	
	223.0	152.4°	-0.53°

Index L & B

	225.4		
10 5 2	313.9	85.5°	B
	57.9	66.9°	
	124.8	152.4°	-0.53°
	235.0		-0.48°
10 8 32	305.9	70.9°	
	48.8	86.0°	
	134.8	156.9°	-0.44°

38	128	91	°
9	62	23	'
5	-1	-17	"
15	1	6	°

Mean -0.52°

7495.6258

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1906phae.proj..582W

Oct. 11, 1906

Index L & B VIII

		228.8		
10	18	57	313.4	84.6
			56.9	70.9
			127.8	155.5 -0.47
			236.5	-0.48
10	24	8	307.5	71.0
			53.0	83.0
			13~~4~~16.0	154.0 -0.50

Index R & A

			140.0	
10	31	55	223.5	83.5
			333.0	60.5
			33.5	144.0 -0.69
			146.2	-0.56
10	36	8	215.0	71.8
			318.0	85.9
			43.9	157.7 -0.43

	109	128		
10	27	47		
5	-1	-17		
15	26	30	S.T.	0^h 14^m
			L.A	4 3
74956434			Sec.	-13.0
			R.A	343.7 L & B
			Sperchet	-4.5 A
			"	-3.5 B
			"	-3.0 L

Means -0.52

It's ~~watch~~ needs for times
~~Watch~~ 1 m 17 sec fast

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1906phae.proj..582W

Oct. 12, 1906 (Friday)

Iris Phot. I H. Obs. Bowie Rec.

19 58 -13.1 Comp. Star = -13° 6' 26 (9.4)

20 53

0 55

(= -13° 6' 12 (9.3))

7 19 0 Iris follows comp. Star of last night by 2 ms. 3 sec. and 12.'9 north of it.

Index Le A I

144.5 Iris dis.

7 49 8 219.1 74.6^

334.9 54.9^

29.8 129.5^ -0.99^

153.4 -1.00^

209.0 55.6^

7 51 49 325.4 73.6^

39.0. 129.2 -1.00^

Index A+B

56.3

7 55 25 127.7 71.4^

242.7 58.2^

300.9 129.6^ -0.99^

63.8 -0.96^

7 58 38 121.5 57.7^

213 120^ 235.2 74.8^

7 53 45^ 3 ~~9 2~~ 10.0 132.5^ -0.93^

5 -27^

12 53 18^

Mean -0.98^

7496.5370

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1906phae.proj..582W

Oct. 12, 1906

Index R & B

II

56.2

8	7	35	130.3	74.1°
			243.8	57.0°
			300.8	131.1° −0.96°

62.4 −0.88°

8	10	54	122.5	60.1°
			233.2	78.1°
			311.3	138.2° −0.81°

Index L & A

324.8

8	15	48	38.0	73.2°
			153.5	58.4°
			211.9	131.6° −0.95°

332.5 −0.91°

8	19	21	31.0	58.5°
			144.4	76.6°
			221.0	135.1° −0.87°

Mean −0.90°

	51	158	°
8	12	84	°
5		−27	°
13	12	57	°

7496.5507

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1906phae.proj..582W

Oct. 12, 1906

Index L & A

III

		324.0		
8	25 45	40.0	76.0'	B
		153.1	58.0'	
		211.1	134.0'	-0.90'
		333.8		-0.86'
8	29 38	32.9	59.1'	
		143.0	78.7'	
		221.7	137.8'	-0.82'

Index R & B

		232.0		A
8	34 40	311.5	79.5'	
		61.3	59.2'	
		120.5	138.7'	-0.80'
		241.5		-0.82'
8	40 30	302.3	60.8'	
	128 156 '	53.5	76.3'	
8	32 39 '	129.8	137.1'	-0.83'
5	-27 '			
13	32 19 '			

Mean -0.84'

7496.5641

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1906phae.proj..582W

Oct. 12, 1906

Index R & B IV.

233.3

8 50 44

307.5	74.2	A
62.0	59.4	
121.4	133.6	-0.90

240.9 -0.86

8 55 40

302.8	61.9	
54.2	75.5	
129.7	137.4	-0.83

Index L & A

142.9

9 1 7

221.0	78.1	B
334.1	56.7	
30.8	134.8	-0.88

152.0 -0.87

9 4 53

212.1	60.1	
324.5	75.9	
40.4	136.0	-0.86

34	110	144	
8	57.	66	
5		-27	
13	57	39	

Mean -0.86

7496.5816

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1906phae.proj..582V

Oct. 12, 1906

V

Index I + A

145.7

9	13	54	219.8	74.1^
			334.0	58.7^
			32.7	132.8^ − 0.92^

151.6 −0.92^

9	20	10	211.5	59.9^
			325.4	73.1^
			38.5	133.0^ − 0.92^

Index R + B

52.8

9	26	2	131.6	78.8^
			242.0	62.6^
			304.6	141.4^ − 0.75^

60.4 −0.73^

9	30	0	124.3	63.9^
	89	66^	232.8	79.3^
9	22	32^	312.1	143.2^ − 0.71^
5		−27^		
14	22	5^		

Mean −0.82^

7496.5987

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1906phae.proj..582W

Oct. 12, 1906

Index R & B VI

53.3

9 40 14

	130.7	77.4^
	240.4	61.4^
	301.8	138.8^ -0.80^

A

61.5 -0.76^

9 44 0.

	124.8	63.3^
	233.0	79.0^
	312.0	142.3^ -0.73^

Index L & A

324.9

9 49 34

	37.7	72.8^
	151.9	62.4^
	214.3	135.2^ -0.87^

B

333.4 -0.90^

	30.9	57.5^
	145.2	75.3^
	220.5	132.8^ -0.92^

9 52 38

185 86 ^

9 46 36 ^

5 -27

14 46 9 ^

Mean -0.83^

7496.6154

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1906phae.proj..582W

Oct. 12, 1906.

Index L + A

VII

			324.2			
9	58	33	41.0	76.8^		
			152.5	60.4^		B
			212.9	137.2^	-0.83^	
			332.0			-0.78^
10	1	56	32.8	60.8^		
			142.0	80.7^		
			222.7	141.5^	-0.74^	

Index R + B

			233.0			
10	6	0	310.7	77.7^		A
			63.2	59.8^		
			123.0	137.5^	-0.82^	
			242.0			-0.80^
10	8	38	303.0	61.0^		
			53.0	79.0^		
			132.0	140.0^	-0.77^	

39	73	127	^
9	63	47	^
5		-27	^
15	3	20	^

Mean -0.79^

7496.6273

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1906phae.proj..582w

Oct 12, 1906

Index R & S VIII

232.5

10	17	15	312.2	79.7^ A
			62.0	61.5^
			123.5	141.2^ −0.75^
			241.4	−0.74^
10	21	21	304.9	63.5^
			52.4	79.4^
			131.8	142.9^ −0.72^

Index Left

144.6

10	27	40	223.1	78.5^
			332.4	60.9^ B
			33.3	139.4^ −0.79^
			150.9	−0.80^
10	31	36	212.0	61.1^
			323.5	76.5^
			40.0	137.6^ −0.82^

	96	112	^
10	24	28	^
5.		−27	^
15	24	1	^

S.J. 0h 22m Mean −0.77^

7496.6417 R.A. 4 8

Dec −13.0 It's watch used for times tonight

R.A. 347.5 Inv & Stratch 27 sec. fast

Sprockets −1.4 A
" −0.5 B
" +0.1 b

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1906phae.proj..582w

Oct. 13, 1906 (Saturday)

Iris Phot J H. Obs Bowie Rec.

20 10 −13.0 Same Comp. Star used as on Oct. 12 = −13° 5626 (9.8)
20 55
+ 0 45

7 23 0 Iris follows −13° 5618 (9.3) by 2 m. 54 sec. and is 14.1 north of it
Iris follows (8.4) magn = −13° 5630 (A.K) by 8 sec. and is 5.'8 south of it.

Index L & A I

325.1 ≪ Iris dis
7 37 55 41.9 76.8″
151.6 58.8″
210.4 135.6″ −0.86″

335.6 −0.86″
7 41 27 33.0 57.4″
143.0 78.1″
221.1 135.5″ −0.87″

Index R & A

232.0
7 45 39 310.8 78.8″ A
61.9 61.1″
123.0 139.9″ −0.78″

240.5 −0.73″
7 48 44 304.4 63.9″
52.7 80.8″
133.5 144.7″ −0.68″

7 1 171 165″
7 5 42 86″
−29″
12 42 57″ Mean −0.80″

7497.5299

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1906phae.proj..582w

Oct. 13, 1906

Index R & B

~~125.0~~

50.5

7	56	3	132.6	82.1′	
			241.0	60.0′	
			301.0	142.1′	−0.73′
			61.3		−0.70′
7	59	44	123.9	62.6′	
			229.6	81.9′	
			311.5	144.5′	−0.68′

Index L & A

324.7

8	4	10	50.7	86.0′	
			153.6	58.1′	
			211.7	144.1′	−0.69′
			334.6		−0.78
8	7	12	31.9	57.3′	
30	126	69	144.0	77.4′	
7	61	47	221.4	134.7′	−0.88′
5		−29			
13	1	18			

Mean −0.74′

7497.5426

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1906phae.proj..582w

Oct. 13, 1906

Index L & A

III

323.7

8	17	0	41.3	77.6		B
			152.2	57.8		
			210.0	135.4	-0.87	

334.7 -0.89

8	20	28	30.5	55.8		
			144.0	77.5		
			221.5	133.3	-0.91	

Index R & B

231.5

8	24	33	311.0	79.5		A
			64.2	54.8		
			119.0	134.3	-0.89	

243.4 -0.86

8	28	54	302.1	58.7		
			52.0	79.0		
			131.0	137.7	-0.82	

Means -0.88

	89	115	
8	22	44	
5		-29	
13	22	15	

Sky hazy, some light cloud and fog below this region and involving these stars more or somewhat. Observations very difficult

7497.5570

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1906phae.proj..582W

Oct. 13, 1906

Index R & B

232.3

8 38 54 — 313 = 2.8 — 80.5^ — A

63.2 — 58.1^

121.3 — 138.6^ — −0.80^

241.6 — −0.76^

8 42 28 — 302.4 — 60.8^

51.3 — 81.3^

132.6 — 142.1^ — −0.73^

Index L & A

144.8

8 48 30 — 218.4 — 73.6^ — B

335.6 — 54.9^

30.85 — 128.5^ — −1.01^

154.6 — −1.00^

8 53 5 — 209.7 — 55.1^

325.9 — 73.8^

39.7 — 128.9^ — −1.00^

181 117^

8 45 44^

5 −29^

13 45 15^

Means −0.88^

7497.5730

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1906phae.proj..582W

Oct. 13, 1906

Index L & A

V

141.4

9 3 50	219.6	78.2 ^	B
	334.5	54.7 ^	
	29.2	132.9 ^	-0.92 ^

154.5 -0.92 ^

9 7 44	209.0	54.5 ^	
	323.6	78.6 ^	
	42.2	133.1 ^	-0.91 ^

Index R & B

53.8

9 13 8	132.8	79.0 ^	A
	241.4	60.2 ^	
	301.6	139.2 ^	-0.79 ^

62.5 -0.75 ^

9 16 40	124.4	61.9 ^	
	231.6	81.2 ^	
	31 ~~5.8~~ 2.8	143.1 ^	-0.71 ^

	39	142 ^
9	9	80 ^
5		-29 ^
14	9	51 ^

Mean -0.84 ^

7497.5902

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1906phae.proj..582W

Oct 13, 1906

Index R & B

VI

51.4

9	27	31	133.25	82.1°
			241.6	63.0°
			304.6	145.1° −0.67°

A

61.0 −0.68°

9	31	7	123.5	62.8°
			231.5	80.7°
			312.2	143.5° −0.70°

Index L & A

323.5

9	36	30	40.1	76.3°
			153.9	57.3°
			211.2	133.6° −0.90°

B

332.8 −0.56°

9	41	2	32.4	59.6°
	135	70 °	142.9	77.6°
9	33	62 °	220.5	137.2° −0.83°
5		−29 °		
14	33	33		

Mean −0.77°

7497.6066

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1906phad.proj..582W

Oct. 13, 1906.

Index L & A VII

		319.9		
9	50 45	40.7	80.8	B
		153.0	58.8	
		211.8	139.6	-0.78
		333.1		-0.80
9	55 40	34.1	61.0	
		143.7	77.1	
		220.8	138.1	-0.81

Index R & B

		230.6		
10	3 5	313.0	82.4	A
		61.0	62.3	
		123.3	144.7	-0.68
		242.0		-0.66
10	7 47	304.9	62.9	
		50.6	83.7	
		134.3	146.6	-0.64

38	115	137	
9	58	79	
5		-29	
14	58	50	

Mean -0.73

7497.6242

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1906phae.proj..582w

Oct 13, 1906

Index R & S

49.0 VIII

10 18 15 133.4

Region ~~too~~ low, and ~~too~~ much fog to ~~take~~ another group

S. T. 0h 3m

H. A. +3 49

Dec. -13.0

P. A. 130.0 Ver. S

Sprocket -3.5 A

" -2.5 S

" -2.0 b

H's watch used for times tonight

Hatch 29 sec. fast.

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1906phae.proj..582W

Oct. 15, 1906 (Monday)

Iris

20	10	−13.0
21	5	
	55	

7 25 0 Iris follows −13° 5630 (8.4) by 1 m. 56 sec and is 3.'6 ~~south of~~ it.

7 30 0 Iris follows −13° 5635 (8.0) by 5 sec. and is 5.'3 south of it.

Star a follows −13° 5635 (8.0) by 2 m. 56 sec
7 42 0 and is about 7.'2 south of it. Magn. 9.3

o beta

26	12	−3.6
21	57	
4	15	
7	45	

No stars visible in this region, even in large telescope

Sky very hazy and cloudy impossible to make any headway clouds continually coming

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1906phae.proj..582W

Oct. 15, 1906.

over and all over ~~the~~ sky Abandoned for tonight

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1906phae.proj..582W

Oct. 23, 1906 (Tuesday)

			Iris.	Phot. J. H. Obs.	Bowie Rec.
			20	10	-13.0
			22	25	
			2	15	

8 28 0 Iris prec. -13° 5676 (9.5) by 17.5 sec. and is 5.0 south of it

Index R.A.

50.0 ← Iris dis.

8 51 34 133.8

241.0

302.0

Haze in this region.

60.9

121.5

Abandoned. ~~Sky too~~ hazy; moon ~~too~~ near and denser clouds ~~steadily~~ rising in this region. ~~Impossible to~~ even finish this group successfully.

Comp. Star. = -13° 5676 (9.5)

9 21 0 By transits with same star as above Iris now precedes said ~~comp.~~ star by about 15.5 sec. These transits however were taken with an ordinary watch and are not regarded as exact, but this object which is not on D. M. chart is certainly Iris and has gone ~~to~~ following by about the right amount.

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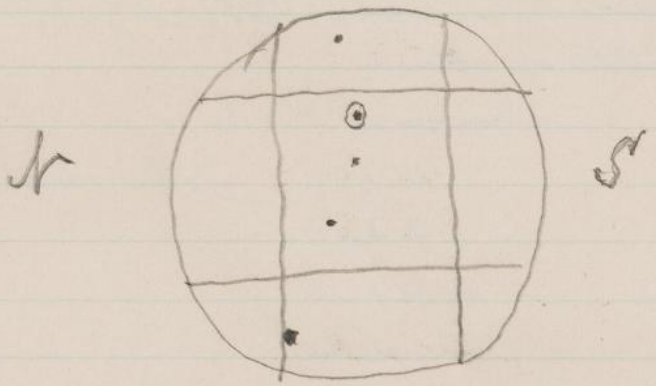
1906phae.proj..582W

Oct. 23, 1906.

Var. 76. 1905 Phot. I St. Obs Bowie Rec

19	27	+55.1
24	12	
4	45	

For measurements see fol. page.



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1906phae.proj..582V

Oct. 23, 1906.

Index L & A

	224.0	Comp. Star dis	I
10 24 54	320.5	96.5	
	55.8	73.2	B
	129.0	169.7 +0.20	
	238.0		+0.20
	313.6	75.6	
	43.4	94.4	
	137.8	170.0 +0.19	

Index R & A

	137.0		
	228.4	91.4	
	325.8	72.0	A
	37.8	163.4 +0.32	
	146.2		+0.25
	218.1	71.9	
	312.0	98.6	
	50.6	170.5 +0.18	

Mean +0.22

10	35	33
	59	87
10	29	74
5		-24
15	29	50

7507.6457

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1906phae.proj..582W

Oct. 23, 1906.

Index R. A. II

136.9
10 53 49 228.7
326.7
39.6

146.3
220.4
313.5
49.8

Index

~~43.1~~
~~137.5~~
234.0

Stopped by clouds
Reject. above partial groups.

Hour angle not read as telescope must have drifted while waiting for sky ~~to~~ clear. Clouds came but P.A. and sprocket are pretty nearly right.

P.A 41.0
Dec +56.6
Sprocket −2.5 B
" −1.5 b

It's watch used for times tonight.
Watch 24. sec fast.

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1906phae.proj..582W

Oct. 24, 1906. (Wednesday)

Iris

20	10	−13 0
21	40	
1	30	

7 19 0 Iris precedes −13° 6R0 (7m) by 38. sec. and is 1.'8 south of it.

Iris has gone from its position of last night and is in the place indicated above, for tonight.

More clouds coming into this region and rising all through the west and southwest. Impossible to make any photometric measurements of Iris tonight; moon also near, sky very bright and consequently Iris rather faint.

R.A. Iauri

27	58	+27.2
22	13	
5	45	
6	15	

Abandoned, too cloudy.

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1906phae.proj..582W

Oct. 24, 1906.

Fourth Type Star +2° 4709. Phot. J. K. Obs. Bowie Rec.

23	39	+2.7
22	23	
1	16	
10	44	

color 6 to 7

9."5 trap used

Index Right.

345.5 4th to type dis.

8 16 54

15.2	29.7 ^	
172.6	21.0 ^	
193.6	50.7 ^	-3.24 ^

348.2		-3.22 ^
12.4	24.2 ^	
168.9	27.5 ^	
196.4	51.7 ^	-3.20 ^

Index Left

255.6		
290.2	34.6 ^	
77.9	27.1 ^	
105.0	61.7 ^	-2.80 ^

258.2		-2.78 ^
286.5	28.3 ^	
73.0	34.5 ^	
107.5	62.8 ^	-2.76 ^

Mean -3.00 ^

8	26	0	
	42	54	^
8	21	27	^
5		-7	^
13	21	20	^

7508.5565

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1906phae.proj..582W

Oct. 24, 1906.

S. T. 23h 3m
H. A. - 0 40
Dec. + 2.0
P. A 166.0 Ker
Sprocket - 9.5 A
" - 8.5 B
" - 8.0 b

Clouds now all thick everywhere. only one ~~or two~~ stars visible. No chance for ~~anything~~ further

It's ~~watch~~ used for ~~times tonight~~
Watch 7 sec. fast.

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1906phae.proj..582w

Oct. 25, 1906 (Thursday)

9 0 0 Some signs of clearing; came to Observatory but still continuously cloudy, apparently no chance for anything tonight.

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1906phae..proj..582W

Oct. 26, 1906 (Friday)

Iris

20	10	−13.0
21	40	
1	30	

An object which is ~~undoubtedly~~ Iris follows −13 5680 (7.5) by 1 m. 43. sec. and is 3.'0 north of it. This object was Iris.

An object which is about ~~the~~ same brightness as ~~the~~ one assumed ~~to~~ be Iris precedes ~~the latter~~ by 7. sec. and is 2.'8 ~~north~~ of it.

7 26 0

∴ Iris = 20ʰ 23ᵐ 12ˢ. −13° 0.9 (1855)

R. A. Dec.

Fourth Type Star +9° 4369 Phot. J. H. Obs. Bowie Ref.

19	44	+8.5
22	34	
2	50	

Color 3

Measurements on fol. page

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1906phae.proj..582w

Oct. 26, 1906

Index R & A

143.3 ← 4th type dia.

8 12 30	219.0	75.7'
	335.8	53.0'
	25.8	128.7' − 1.00'

153.0	−0.96'
208.1	55.1'
322.9	77.5'
40.4	132.6' −0.92'

Index L & B

51.0	
131.6	80.6'
243.0	57.4'
300.4	138.0' −0.81'

64.4	−0.82'
122.5	58.1'
231.4	79.4'
3101.4 − 28	137.5' −0.82'

Mean −0.89'

8	22	56	
	34	86	'
8	17	43	'
5		−5	'
13	17	38	'

S.T. 23h 4m

R.A. +3 5

Dec +9.5

C.A. 105.0

Sprocket −0.5 B

" +0.5 b

7510.5539

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1906phae..proj..582W

Oct. 26, 1906.

Fourth Type Star +11°305 Phot. J. K. Obs. Bowie Rec.

26	11	+12.3
23	11	
3	0	
9	0	

Polar 4

Index R & B A

52.5 ← Comp Star dia

9 1 13	134.3	81.8
	240.6	61.4
	302.0	143.2 +0.71

	62.0	+0.72
	124.6	62.6
	231.5	80.0
	311.5	142.6 +0.72

Index L & A B

	324.5	
	39.5	75.0
	152.2	58.9
	211.1	133.9 +0.90

	331.6	+0.86
9 10 46	33.1	61.5
	144.0	76.5
	220.5	138.0 +0.81

	11	59	
9	5	60	
5		-5	
14	5	55	

+0.79

7510.5874

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1906phae.proj..582W

Oct. 26, 1906.

S.J. 23^h 52^m
H.A. −2 18
Dec. +11.0
C.A. 73.0 Ver
Sprocket −4.5 A
" −3.5 B
" −3.0 b

Fourth Type Star 38° 1539 Phot 3 Hr. Obs Bowie Rec
30
6 27 +38.6
23 57

6 30
5 30

9.5 Cap used

Solar 6 in Phot.

9

9

9
5
14

75

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1906phae.proj..582w

Oct. 26, 1906.

Index R & A

77.7 ← 4th type rdis

9 40 56

105.9	28.2'	A
260.2	23.0'	
283.2	51.2'	-3.22'
80.0		-3.18'
103.4	23.4'	
257.6	29.6'	
287.2	53.0'	-3.14'

Index L & B

348.1		
17.0	28.9'	
171.4	19.8'	B
191.2	48.7'	-3.33'
351.7		-3.28'
13.4	21.7'	
166.8	29.0'	
195.8	50.7'	-3.24'

Dec

9 49 5

89 61 '

9 44 60 '

5 -5 '

14 44 55 '

Means -3.23'

R.J. 0 30

R.A. -6 1

Dec. +38.1

P.A. 190.1 Var. B

Sprocket -3.5 B

" -2.5 b

7510.6145

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1906phae.proj..582W

Oct. 26, 1906

Fourth Type Star +31° 1388 Phot. & Ha. Obs. Bavis Rec.

30	34	+31.5
24	34	
6	0	
6	0	

Abandoned for eclipse

Ha's watch used for times tonight
Watch 5 sec. fast

Dis. of Jupr. I Phot. & Ha. Obs. Bavis Rec.
Comp. with nearer of two Sats. on fol. side = Sat. II

B. & L. 1182			B. 394		
10	36	35.8	10	36	0.0
10	37	35.7	10	37	0.0

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1906phae.proj..582w

Oct. 26, 1906

			~~56~~	+44.5	
10	48		18	80.1^ 143.1	
10	48	38 ^	29	80.2^ 223.2	1
		-34 ^	44	+0.4^ 80.2^ 143.0	
10	48	4 ^	59	223.2	
			24	84.1^ 142.0	
10	49	56 ^	45	83.4^ 226.1	
		-34 ^	~~59~~	167.5^	2
10	49	22 ^	9	+0.2^ 83.8^ 143.1	
			24	226.5	
			37	84.3^ 143.2	
10	51	4 ^	54	83.2^ 227.5	3
		-34 ^	14	167.5^ 143.0	
10	50	30 ^	33	+0.2^ 83.8^ 226.2	
			45	83.3^ 142.6	
10	52	8 ^	59	85.5^ 225.9	4
		-34 ^	16	168.8^ 142.0	
10	51	34 ^	33	+0.2^ 84.4^ 227.5	
			49	84.6^ 143.1	
10	53	14 ^	5	85.4^ 227.7	5
		-34 ^	27	170.0^ 142.0	
10	52	40 ^	36	+0.2^ 85.0^ 227.4	
			59	83.5^ 143.0	
10	54	23 ^	14	86.1^ 226.5	6
		-34 ^		169.6^	
10	53	49 ^		+0.2^ 84.8^	

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1906phae.proj..582W

Oct. 26, 1906

		10	54	34		141.5
			"	45		227.6
			55	4	85.3^	143.2
10	55	35^	"	25	82.8^	228.5
		-33^	"	41	168.1^	142.7
10	55	2^			+0.2^ 84.0^	
			56	10		225.5
			"	29	84.0^	143.0
10	56	31^	"	40	86.0^	227.0
		-33^	"	52	170.0^	142.0
10	55	58^	"	4	+0.2^ 85.0^	228.0
			57	57	82.1^	142.7
10	56	24^	58	20	82.9^	224.8
		-33^	"	35	165.0^	145.0
10	57	51^	"	46	+0.3^ 82.5^	227.9
			59	3	81.8^	144.4
10	59	28^	"	18	83.8^	226.2
		-33^	"	38	165.6^	142.5
10	58	55^	"	54	+0.3^ 82.8^	226.3
		11	0	6	78.0^	144.48
11	0	30^	"	24	78.3^	222.8
		-33^	"	37	156.3^	146.7
10	59	57^	"	51	+0.5^ 78.2^	225.0
			1	1	78.7^	145.8
11	1	23^	"	16	78.8^	224.5
		-33^	"	31	157.5^	144.5
11	0	50^			+0.4^ 78.8^	

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1906phae..proj..582W

Oct. 26, 1906.

			11	1	45		223.3 →
				"	56	+0.5^ 77.5^	146.5
11	1	23^					
	1	46^		2	19	+0.4^ 78.6^	224.0
	2	7^		"	40	+0.6^ 73.1^	145.4
	2	19^		"	52	+0.7^ 70.6^	218.5
	2	36^		3	9	+0.8^ 69.6^	147.9
	2	50^		"	23	+1.1^ 63.1^	217.5
	3	11^		"	43	+1.4^ 56.1^	154.4
	3	20^		"	52	+1.4^ 54.4^	210.5
	3	31^		4	3	+1.5^ 53.4^	156.1
	3	40^		"	12	+1.7^ 49.6^	209.5
	3	50^		"	22	+1.8^ 46.5^	159.9
	3	59^		"	31	+2.2^ 39.2^	206.4
	4	9^		"	41	+2.6^ 33.2^	167.2
	4	20^		"	52	+2.8^ 30.4^	200.4
	4	29^		5	1	+3.0^ 28.7^	170.0
	4	40^		"	12		195.7
					30		Not seen later
				Limit of Vis.			
				6	2	27.5^	170.0
11	6	42^		"	16	27.1^	197.5
		−32^		7	0	54.6^	169.9
11	6	10^		"	31	+3.1^ 27.3^	197.0

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1906phae.proj..582w

Oct. 26, 1906

	8 & b 1182			8. 394	
11	11	31.5	11	11	0.0
11	12	31.5	11	12	0.0

Seeing fairly good, somewhat troubled however at times by moisture on Nicol caused by ~~the~~ breath. This at times caused a little delay with settings and yet a little hurry. Eclipse however considered pretty good. Some fog in ~~the~~ air. Moon ~~two~~ days past quarter

∴ the previous eclipse.

From	10h	39m	13s	to	10h	47m	17s	subtract	3s	sec.
"	10	47	17.	"	10	55	22.	"	34	"
"	10	55	22.	"	11	3	27.	"	33	"
"	11	3	27.	"	11	11	31.	"	32	"

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1906phae.proj..582w

Oct. 27, 1906 (Saturday)

Iris

20	10	−13.0
22	00	
+1	50	

7 36 0 Iris follows −13° 5680 (7.5) by 2m. 56sec and is about 6.'3 north of it.

R. A. Dec.

∴ Iris = 20h 24m 25s −12° 57.'6 (1855)

Fourth Type Star +61° 667 Phot. J.K. Obs. Bowie Rec.

27	33	+62.9
22	33	
5	0	
7	0	

Color 4

Measurements on fol. page.

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1906phae.proj..582W

Oct. 27. 1906

Index R & A

241.5 ← 4th type dis.

8	20	1	302.8	61.3'
			55.5	72.5'
				133.8' −0.90'
			128.0	
			235.2	−0.85'
			311.7	76.5'
			59.5	62.3'
				138.8' −0.80' A
			121.8	

Index L & B

			156.0	
			208.0	52.0'
			329.4	63.2'
				115.2' −1.30' B
			32.6	
			151.0	−1.32'
8	28	30	214.9	63.9'
	48	31 '	337.0	49.3'
8	24	16 '		113.2' −1.34'
5		+10 '	26.3	
13	24	26 '		

S.J. 23^h 13^m Means −1.08'

H.A −4 45

Dec +61.1

P.A 183.0 for B

Sprocket −4.5 A

" −3.5 B

" −3.0 b

7511.5611

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1906phae.proj..582W

Oct. 27, 1906

Fourth Type Star +36° 3243 Phot. J K. Obs. Brovie Rec

18 40 +37.4
23 25
4 45

Color 6-7

Index Right

143.6 ← 4th type dis

9 6 30	221.3	77.7	
	331.8	60.4	
	32.2	138.1	-0.81 A

150.3		-0.78
211.3	61.0	
321.5	80.8	
42.3	141.8	-0.74

Index Left

54.4

	127.6	73.2	
	241.6	63.4	
	305.0	136.6	-0.84

59.8		-0.77
124.0	64.2	
234.0	79.5	
313.5	143.7	-0.70

9	17	10	
	23	40	
9	11	50	
5		+10	
14	12	0	

Much moisture in ~~the~~ air. ~~and same~~ clouds Observations somewhat ~~patchy~~ difficult but considered good.

Mean -0.78

7511.5917

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1906phae.proj..582w

Oct. 27, 1906

S. J.	0^h	10^m
Hd. A	+5	29
Dec.	+37.0	
P. A.	56.2 Ver. S	
Sprocket	+0.5 S	
"	+1.5 b	

H. suspected that there might be dew on object glass after above note. On looking at object glass, H. found it was heavily dewed

It a watch used for times tonight
~~Watch~~ 10 sec. slow

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1906phae.proj..502w

Oct. 29, 1906. (Monday)

Double Star Σ 2735 H. Obs. Barnard Phot. M.

20	22	−19.3
22	22	
2	0	

P. A 240° Dist. 17" Magn ~~7.2 ; 8.3~~ 6.5 ; 7.5

Index R + A

66.4 ← North fol. and brighter dis

8 1 54

131.9	65.5^	
244.6	70.5^	
315.1	136.0^	+0.86^ A
63.4		+0.83^
134.8	71.4^	
245.3	67.5^	
312.8	138.9^	+0.80^

Index I + B

338.2		
42.2	64.0^	
155.0	69.4^	
224.4	133.4^	+0.91^ B
334.5		+0.88^
44.1	69.6^	
156.0	66.0^	
222.0	135.6^	+0.86^

Mean +0.86^

8	10	25	
	11	79	^
8	5	70	^
5		−10	^
13	6	0	

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1906phae.proj..582w

Oct. 29, 1906

Fourth Type Star 34° 4500 Phot 3 H. Obs Bowie Loc

21	36	+34.9
23	31	
1	55	

Solar 8
9.5 Crap used

Index Right

	340.2 ← 4th type dia	
9 1 38	23.8	43.6
	164.0	34.8
	198.8	78.4 -2.24
	343.8	-2.26
	18.3	34.5
	161.2	42.8
	204.0	77.3 -2.28

Index Left

	250.1	
	295.2	45.1
	73.2	35.0
	108.2	80.1 -2.19
	252.8	-2.18
9 10 48	288.9	36.1
11 86	68.6	44.8
9 5 73	113.4	80.9 -2.17
5 -10		
14 6 3		

Means -2.22

7513.5875

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1906phaeo.proj..582w

Oct. 29, 1906.

L. J. 0^h 7^m
H. A. +2 30
Dec. +35.2
P. A. 71.1 Ver 8
Sprocket +0.5 8
" +1.5 b

Noticed ~~pretty~~ early ~~in the evening~~ between 7 & 8 o'clock that there seemed ~~to be~~ auroral light in the north extending a little way above
9 30 0 the horizon. At present time the sky is growing pretty cloudy but shortly before ~~the~~ present time, and before it became ~~too~~ cloudy, the auroral light seemed ~~to~~ still persist. Moon within two days of full, making observation of aurora somewhat difficult but notwithstanding the dif. It is certain of phenomenon.
Stopped by increasing cloudiness

It's watch need for times tonight.
Watch 10 sec. slow

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1906phae.proj..582w

Nov. 3, 1906 (Saturday)

Iris

20	10	-13.0	20	36	-12.1
22	15		22	24	
2	5		1	48	

7 25 0 Iris follows -12° 5803 (8.5) by 31. sec and is 5.1 north of it

Double Star Σ 2735 Phot ✠ H. Obs. Bowen Rec

20	22	-19.3
22	37	
2	15	

P.A 240° Dist. 20" Mags. 6.3 7.2

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1906phaeo.proj.:582W

Nov. 3, 1906.

Index R & S

334.8 North fol. and brighter component dia

7 44 35	45.5	70.7"	
	157.7	65.2"	
	222.9	135.9"	0.86" A
	338.3		0.87"
	44.4	66.1"	
	154.5	68.5"	
	223.0	134.6"	0.88"

Index T & A

	246.8		
	314.0	67.2"	
	66.4	66.8"	
	133.2	134.0"	0.90" B
	246.0		0.84"
7 52 24	314.7	68.7"	
96 59 "	64.7	70.3"	
7 46 30 "	135.0	139.0"	0.79"
5 -37 "			
12 47 53 "			Mean 0.86"

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1906phae.proj..582w

Nov. 3, 1906.

Same double again but with Phot. R

Index 2 & A

56.2 North fol. and brighter dis.

8 5 48	131.9	75.7^		
	236.6	76.6^		
	313.2	152.3^	0.53^	B
	56.5		0.54^	
	134.5	78.0^		
	237.1	73.0^		
	310.1	151.0^	0.56^	

Index R & B

	145.8			
	221.8	76.0^		
	332.5	61.9^		
	34.4	137.9^	0.82^	A
	154.4		0.82^	
8 18 30	212.4	58.0^		
	326.5	79.4^		
8 23 78^	45.9	137.4^	0.83^	
8 11 138^				
5 -37^				
13 12 41^				

Mean 0.68^

Region pretty low at time of measurement of last preceding group. All the settings in this group dif. on account of clouds as well as low altitude. Settings in group progressively more dif. the cloudiness steadily increasing. In a number of the settings especially in last half of group

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1906phae.proj..582W

Nov. 3, 1906

images almost invisible and consequently these settings somewhat doubtful. Group 1/3 wt.

Double Star -6° 5664 (6.0) Phot H. Obs Bowie Rec.

20	44	-6.1
24	00.	
3	1.6	

Impossible to separate or measure this double tonight

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1906phae.proj..582W

Nov. 3, 1906
and 6h21.

Double Star −17° 6520 (6.5) Phot. R. St. Obs. Louis

22	19	−17.5
24	19	
2	0	

Components nearly equal in brightness but south fol. component assumed to be slightly ~~the~~ brighter. On this basis P.A. 320° Dist. 5" Mags. 7.0, 7.1

Index R & South fol. and brighter dis.

9 25 36

143.5		
227.7	84.2	
325.4	80.8	A
46.2	165.0	0.29

144.3		0.16
228.2	83.9	
316.1	94.9	
51.0	178.8	0.02

Index L & B

54.1		
140.7	86.6	
233.5	83.9	B
317.4	170.5	0.18

0.20

53.7		
136.4	82.7	
234.4	85.0	
319.4	167.7	0.23

Mean 0.15

9	37	38
	62	74
9	31	37
5		−37
14	31	00

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1906phae.proj..582

Nov. 3, 1906

Observations ~~rather~~ dif. on account of closeness of components, poor seeing, rather low altitude and varying clouds

H. J. 0^h 50^m
H. A. 2 29
Dec. −17.0

Fourth Type Star +2° 4709 Phot. J Hr. Obs. Bowie Sec

23	39	+2.7
25	00	
1	21	

Polar 6
9.5 inch cap needed

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1906phae.proj..582W

Nov. 3, 1906

Index L & A

	255.6 ← 4th type dis	
10 6 52	288.8	33.2 ^
	78.1	26.0 ^
	104.1	59.2 ^ -2.89 ^

B

	258.6	-2.84 ^
	285.8	27.2 ^
	74.4	35.0 ^
	109.4	62.2 ^ -2.78 ^

Index R & B

	164.0	
	199.6	35.6 ^
	349.1	26.7 ^
	15.8	62.3 ^ -2.77 ^

A

	169.0	-2.77 ^
10 14 2	195.65	26.5 ^
20 54 ^	343.8	35.8 ^
10 10 27 ^	19.6	62.3 ^ -2.77 ^
5 -37 ^		
15 9 50 ^		

S. J. 1h 27m

S. A. +1 45

Dec. +3.0

75 18.6 3 18

P. A 185.8 for B

Sprocket -9.5 A (14.5 A
" -8.5 B for 5.5 B
" -8.0 b (16.0 b

Mean -2.80 ^

It's ~~watch~~ used for times
~~Watch~~ 37 sec. fast

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1906phae.proj..582

Nov. 6, 1906 (Tuesday)

Iris

20	36	-12.1
22	26	
1	50	

7 23 0 Iris precedes -12° 5831 (9.4) by 38. sec. and is 1.9 south of it

Double Star Σ 2735 Phot. R H. Obs. Bruce Rec.

20	22	-19.3
22	52	
2	30	

P.A. 240 Dist. 20." Mags. 6.3 ; 7.2

Measurements on fol. page

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1906phae.proj..582W

Nov. 6, 1906

Index R & B

145.3 ← North fol. and brighter dia

7 43 24	224.8	79.5^	
	325.3	75.7^	
	41.0	155.2^	0.47^
	147.2		0.50^
	225.7	78.5^	
	228.6	73.6^	
	42.2	152.1^	0.53^

Index L & A.

	58.1		
	131.0	72.9^	
	240.8	70.2^	
	311.0	143.1^	0.71^
	55.4		0.66^
7 52 35	132.3	76.9^	
95 59 ^	239.5	71.1^	
7 47 60 ^	310.6	148.0^	0.61^
5 -1 -33 ^			
12 46 27 ^			

Mean 0.58^

Seeing a little ~~b~~ blurry

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1906phae.proj..582

Nov. 6, 1906

Same Double again but with Phot. H

Index L & A

58.0 ← North fol. & brighter dis

8 6 32

132.6		
242.0	74.6 ^	
309.0	67.0 ^	
	141.6 ^	0.74 ^

61.4	0.78 ^
128.6	67.2 ^
239.8	71.2 ^
311.0	138.4 ^ 0.81 ^

Index R & B

331.5		
41.0	69.5 ^	
152.8	67.7 ^	
220.5	137.2 ^	0.83 ^

331.4	0.82 ^
39.7	68.3 ^
151.0	70.5 ^
221.5	138.8 ^ 0.80 ^

8 14 50

	20	82	^
8	10	41	^
5	-1	-33	^
13	9	8	^

Mean 0.80 ^

Seeing a little blurry

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1906phae.proj..582W

Nov. 6, 1906

+6521.

Double Star -17° 6520 (6.5) Phot R. H. Obs Bowie Rec

22 19 -17.4

23 49

1 30

P. A. 320° Dist. 7" Mags. 7.0 ; 7.2

Index R & A

141.5 ← South fol & brtr dis

8 43 15

230.3	88.8^	
~~323.0~~	87.4^	
~~47.1~~	176.2^	0.07^
322.1		
49.5		
		0.10^
142.9		
226.6	83.7^	
320.5	89.8^	
50.3	173.5^	0.12^

Index L & B

54.7		
138.8	84.1^	
232.8	85.4^	
318.2	169.5^	0.20^
		0.15^
54.9		
139.2	84.3^	
228.3	90.5^	
318.8	174.8^	0.10^

Mean 0.12^

8	57	48
	100	63 ^
8	50	32 ^
5	-1	-33 ^
13	48	59 ^

Seeing a little hurry

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1906phae.proj..582W

Nov. 6, 1906

Two ~~arrangements~~ stars H. Obs. Phot. R Bowie Rec

P.A. 320° Dist. 5'± Mags. 8.8 8.9

Index L & S

	70.4 ← Brighter dis		
9 36 22	117.3	46.9	
	239.4	74.6	
	314.0	121.5	1.16
	58.3		1.07
	136.3	78.0	
	251.5	51.8	
	303.3	129.8	0.98

Index R & A

	146.9		
	226.0	79.1	
	315.0	104.8	
	59.8	183.9	
		176.1	0.07
	136.0		
9 45 45	236.5	100.5	
	329.3	76.0	
	45.3	176.5	0.06

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1906phae.proj..582W

Nov. 6, 1906

Fourth Type Star +14° 1283 Phot. 3 Mr. Ote Bowie Rec

6 17.2 +14.8

1 30

4 47

7 13

Color 4

9.5 b ap used

Index R & A

60.7 4th type dis

10 29 44 123.8 63.1^ A

231.0 84.1^

315.1 147.2^ -0.63^

49.9 -0.66

131.9 82.0^

241.0 61.5^

302.5 143.5^ -0.70^

Index L & B

332.4 B

32.8 60.4^

140.4 82.1^

222.5 142.5^ -0.72^

323.0 -0.74^

10 37 24 41.4 78.4^

66 68^ 152.9 61.6^

10 33 34^ ~~213.9~~ 140.0^ -0.77^

5 -1 -33^ 214.5

15 32 1^

.5472

Mean -0.70^

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1906phae.proj..582

Nov. 6 1906

S.J. 2^h 5^m
R.A. −4 16
Dec. +14.3
P.A. 202.2
Sprocket −5.5 S
" −4.5 b

o beti Phot. R H. Obs Bowie Rec

2	12	−3.6
2	12	
0	0	

Measurements on fol. frage

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1906phae.proj..582W

Nov. 6, 1906

Index L & A

178.4 ← var. dia

11	22	36	187.3	8.9 ^	B
			357.6	11.2 ^	
			8.8	20.1 ^	−5.25^
			177.5		−5.18^
			188.6	11.1 ^	
			357.8	11.0 ^	
			8.8	22.1 ^	−5.07^

Index R & B

			88.2		
			97.9	9.7 ^	A
			267.6	10.8 ^	
			278.4	20.5 ^	−5.24^
			88.0		−5.30^
11	31	17	98.6	10.6 ^	
	53	53 ^	268.8	8.7 ^	
11	26	56 ^	277.5	19.3 ^	−5.37^
5	−1	−33 ^			
16	25	23 ^			

Means −5.24^

7521.6843 L.S. 2^h 55^m

L.A. +0 40

Dec. −4.0

It's watch used for times
~~Watch~~ 1 mn. 33 sec. fast

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1906phae.proj..582

Nov. 7, 1906 (Wednesday)

Iris

20	36	-12.1
22	36	
2	0	

7 21 0 Iris follows -12° 5831 (9.4) by 48. sec. and is 2.3 north of it.

* Phot. R. Ht. Obs. Bowl Rec.

For results see pp. 126 and 127.

* In order to determine, if possible, the diff. in brightness of two stars, with both Phot R. and T., -12° 5824 (9.5) and -12° 5831 (9.4), 5' apart, were selected. The case is an extreme one and very difficult of results as with Phot R. the photometer is at its extreme max. limit and the images bad, and with Phot. T. the images are of third extreme min. limit and very much in shadow

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1906phae.proj..582W

Nov. 7, 1906.

-12° ♈ ♎ 2♌ (9.5) compared with -12° ♈ ♎ 31 (9.4)

Index Above

50.5 ← Northern a fol. dis

7 36 26	138.2	87.7
	236.6	76.7
	313.3	164.4 −0.30

58.9 −0.30

	132.4	73.5
	228.5	91.5
	320.0	165.0 −0.29

Index Below

	312.3	
	61.9	109.6
	142.1	88.1
	230.2	197.7
		162.3 +0.34
	318.4	
7 49 45	52.0	93.6 +0.40
85 71	129.0	109.9
7 42 66	238.9	203.5
5 −53		156.5 +0.45
12 42 13		+0.05

By above means. -12° ♈ ♎ 2♌ (9.5) is slightly the better.

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1906phad.proj.:5929

Nov. 7, 1906

Same again but with phot. J.

Index L & A.

	219.5	Northern a fol. dis	
8 14 36	323.6	104.1 ^	
	48.9	81.7 ^	
	130.6	185.8 ^	
		174.2 ^	+0.11 ^
	230.4		+0.12 ^
	315.7	85.3 ^	
	40.2	102.1 ^	
	142.3	187.4 ^	
		172.6 ^	+0.14 ^

Index R & B

	125.1		
	241.0	115.9 ^	
	312.8	94.0 ^	
	46.8	209.9 ^	
		156.1 ^	+0.46 ^
	133.0		+0.46 ^
	231.0	98.0 ^	
	305.5	111.9 ^	
	57.4	209.9 ^	
		156.1 ^	+0.46 ^

8	27	37	
	41	73	^
8	20	66	^
5		−53	^
13	20	13	^

Again +0.29 ^

By above means. −12° 52' 22" (9.5) turns out to be slightly the better.

S.S. 0 4

H.A. 3 20

Dec. −12.0

P.A. 202.7

Sprocket +1.5 8

" +2.5 6

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1906phae.proj..582W

Nov. 7, 1906

o Leti Phot. Kr. - K. Obs. Bowie Rec.

2	12	-3.6
0	32	
1	40	
10	20	

Index Right

A

	92.1 ←	var. dis
9 38 40	99.6	7.5"
	271.5	9.0"
	280.5	16.5 -5.71"

	91.8	-5.82"
	99.6	7.8"
	271.8	7.2"
	279.0	15.0" -5.92"

Index Left

B

	1.5	
	9.0	7.5"
	180.7	9.0"
	189.7	16.5" -5.71"

	0.1	-5.67"
	10.0	9.9"
	181.8	7.2"
	189.0	17.1 -5.63"

Mean -5.74"

9	46	40
	84	80"
9	42	40"
5		-53"
14	41	47"

7522.6124

10
19
9
5
15

75

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1906phae.proj..582

Nov. 7, 1906

Same again but with phot. R.
At Obs Bowie Rec

Index Left

	177.7	var. dia	
9 59 15	184.8	7.1^	B
	356.0	9.3^	
	5.3	16.4^	-5.72^
	177.0		-5.72^
	185.6	8.6^	
	356.7	7.9^	
	4.76	16.5^	-5.71^

Index Right

	87.1		
	96.0	8.9^	A
	266.6	9.5^	
	276.1	18.4^	-5.47^
	86.8		-5.54^
	96.4	9.6^	
	267.0	7.6^	
	274.6	17.2	-5.62^

Mean -5.63^

10	9	20	
19	68	35	^
9	64	18	^
5		-53	^
15	3	25	^

It is ~~watch~~ used for times

7522.6274 ~~Watch~~ 53 sec. fast

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1906phae.proj..582W

Nov. 7, 1906

B.A No. 1182.			B. 394.		
10	24	1.2	10	24	0.0
10	25	1.2	10	25	0.0

Reap. Jup. III Phot. R Ha. Obs. Bowie Rec
comp. with nearer of two Sats. (before reap.)
on same prec. side = Sat. I

						false alarm ~~seen~~
10	41	13	10	~~40~~ 41	~~54~~ 12 ±	Susp. ~~Seen~~
	41	33	10	41	32	
	41	43			42	+2.0^ 43.1^ 73.9
	41	55			54	+1.8^ 48.0^ 117.0
	42	9		42	8	+1.5^ 54.2^ 69.0
	42	28			27	+1.3^ 58.7^ 123.2
	42	42			41	+1.1^ 61.7^ 64.5
	42	49			48	+1.0^ 64.7^ 126.2
	43	4		43	3	+0.9^ 66.2^ 61.5
	43	17			16	+0.8^ 69.9^ 127.7
	43	30			29	+0.8^ 69.7^ 57.8
	43	41			40	+0.5^ 76.6^ 127.5
	43	52			51	+0.3^ 82.1^ 50.9
	44	25		44	23	+0.3^ 83.2^ 133.0

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1906phae.proj.:5620

Nov. 7, 1906

10	44	36		44	34	+0.2 84.2	49.8
10	44	46		"	44	+0.1 87.4	34.0
	45	1		"	59	+0.1 86.4	46.6
	45	15		45	13		133.0
				"	25		43.8
10	45	54				91.4	
		+2			35	94.5	
10	45	56		"	49	185.9	135.2
				46	3	−0.1 93.0	43.0
				"	17		137.5
				"	33		41.2
						96.3	
10	46	53		"	50	100.0	139.5
		+2		"	59	198.3	41.0
10	46	55		47	10	−0.4 99.2	141.0
				"	21		40.0
						100.5	
10	47	46		"	37	101.3	140.5
		+2		"	53	201.8	39.5
10	47	48		48	12	−0.4 100.9	140.8
				"	32		38.8
						104.2	
10	48	56		"	47	105.1	143.0
		+2				209.3	
10	48	58		49	4	−0.6 104.6	38.1
				"	20		142.2
				"	44		35.2
						107.8	
10	50	5		"	54	105.5	143.0
		+2				213.3	
10	50	7		50	14	−0.6 106.6	37.0
				"	28		142.5

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1906phae.proj..582W

Nov. 7, 1906

			10					
10	51	9	^	50	40	107.3^	37.0	
		+3	^	51	1	109.8^	144.3	10
10	51	12	^	"	18	217.1^	36.4	10
				"	36	-0.7^108.6	148.2	
				52	25		34.4	
10	52	50	^	"	44	111.6^		
		+3	^	"	44	110.9^	146.0	1 10
10	52	53	^	"	59	222.5^	35.1	10
				53	11	-0.8^111.2^	146.0	
				"	36		36.5	
10	54	3	^	"	56	109.0^		
		+3	^	"	56	109.8^	145.5	2 11
10	54	6		54	10	218.8^	36.2	11
				"	29	-0.7^109.4^	146.0	
				"	46		36.0	
10	55	8	^	55	0	110.5^		
		+3	^	"	0	111.7^	146.5	3
10	55	11	^	"	14	222.2^	35.5	11
				"	32	-0.8^111.1^	147.2	
				"	49		35.5	
10	56	15	^	56	1	110.7^		
		+3	^	"	1	111.0^	146.2	4
10	56	18	^	"	29	221.7^	35.4	
				"	41	-0.8^110.8^	146.4	
				"	58		36.0	
10	57	31	^	57	26	110.5^		
		+3	^	"	26	110.0^	146.5	5
10	57	34	^	"	44	220.5^	36.0	
				"	55	-0.8^110.2^	146.0	

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1906phaeo.proj..5927

Nov. 7, 1906

			10	58	8		36.2	
10	58	26 ^		"	18	110.5 ^ 111.0 ^ 146.7		6
		+4 ^		"	34	221.5 ^		
10	58	30 ^		"	44	−0.8 ^ 110.8 ^ 147.0	36.0	
			10	59	21		36.1	
10	59	48 ^		"	45	110.0 ^ 109.4 ^ 146.1		
		+4 ^		"	54	219.4 ^	36.6	!
10	59	52 ^	11	0	11	−0.8 ^ 109.7 ^	146.0	
				"	24		36.5	
11	0	47 ^		"	38	109.7 ^ 111.0 ^ 146.2		
		+4 ^		"	57	220.7 ^	36.0	
11	0	51 ^		1	10	−0.8 ^ 110.4 ^	147.0/6.8	
				"	Limit of Vis.			
			11	2	15		71.1	
11	3	4 ^		"	30	46.1 ^ 39.0 ^ 117.2		
		+4 ^		3	23	85.1 ^	72.0	
11	3	8 ^		4	9	+2.0 ^ 42.6 ^ 111.0		

Seeing a little blurry but yet fairly good Sat. III resp. moderate about 1/5 to 1/6 the diameter of Jup. from limb of same

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1906phae.proj..582W

Nov. 7, 1906

B & b 1182.			B 394.		
11	11	54.5	11	12	0.0
11	12	54.3	11	13	0.0

∴ In previous Eclipse

From 10h 36m √√ to 10h ∠3m √√ add 1. sec.
10 ∠3 √√ " 10 √0 √√ " 2. 4
10 √0 √√ " 10 √ √√ " 3. "
10 √ √√ " 11 ∠ √√ " 4. "
11 ∠ √√ " 11 11 √√ " √. "

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1906phaa.proj..502

Nov. 8, 1906 (Thursday)

Iris

20	36	−12.1
22	36	
2	0	

7 25 0 Iris follows −12° 5831 (9.4) by 2m. 14sec and is 5.9 north of it.

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1906phae.proj..582W

Nov. 8, 1906

$-12°$ vA 220 (9v) compared with $-12°$ vA 231 (9.4)

Phot. R. A. obs. Bowie rec.

Index Below

		304.0	Northern a fol dis	
7	40	33	49.26	105.6″
			134.1	86.0″
			220.1	191.6″
				168.4″ 0.22″
			310.0	
			46.5	96.5″ +0.38″
			120.2	111.8″
			232.70	208.3″
				151.7″ 0.54″

Index Above

			219.0	
			314.8	95.8″
			48.9	76.6″
			125.5	172.4″ 0.14″
			228.5	+0.16″
7	53	13	304.1	75.6″
	93	46	39.5	95.2″
7	46	53	134.7	170.8″ +0.17″
5		+4		
12	46	57		+0.11″

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1906phae.proj..582

Nov. 8, 1906.

Same again but with Chot. J. Wolb. Bowie Sec.

Index L & A

~~47.5~~ North. & fol. dis.

~~144.0~~

221.1

8	13	7	320.7	99.6 ^		
			48.9	82.7 ^		
			131.6	182.3 ^		
				177.7 ^	0.04 ^	
			231.6			
			310.8	79.2 ^	0.02 ^	
			42.5	101.5 ^		
			144.0	180.7 ^		
				179.3 ^	0.01 ^	

Index R & B

			125.7			
			236.0	110.3 ^		
			316.2	87.7 ^		
			43.9	198.0 ^		
				162.0 ^	0.34 ^	
			135.5			
8	23	15	225.1	92.6 ^	0.36	
			307.9	108.1 ^		
			56.0	200.7 ^		
				159.3 ^	0.39 ^	
	36	22 ^				
8	18	11 ^				
5		+4 ^				
13	18	15 ^				

+0.19 ^

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1906phae.proj..582W

Nov. 8, 1906

S. S. 23 58
Sh. A. + 3 16
Dec. −12.0
P. A. 202.0 for S
Sprocket +1.5 S
" +2.5 b

Fourth Ispfe Star +17° 979 Phot J H. Obs Bowie Rec

5	29	+17.0
0	29	
5	00	
7	00	

9.5 b axis used

9
9
5
14
75

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1906phae.proj..582W

Nov. 8, 1906

Index Q × A

	323.5	4th type dis
9 15 5	39.5	76.0 ^
	152.8	57.4 ^
	210.2	133.4 ^ −0.91 ^
	331.8	−0.90 ^
	33.4	61.6 ^
	146.4	72.8 ^
	219.2	134.4 ^ −0.89 ^

Index L × B

	234.6	
	310.8	76.2 ^
	63.6	58.4 ^
	122.0	134.6 ^ −0.88 ^
	242.2	−0.87 ^
9 22 14	301.0	58.8 ^
37 19 ^	52.1	76.8 ^
Dec 9 18 40 ^	128.9	135.6 ^ −0.86 ^
5 +4 ^		
14 18 44		Mean −0.88 ^

S.T. 0 57
R.A. −4 38
Dec. +16.5
P.A. 217.0 Ver. 8
Sprocket −1.5 8
" −0.5 6

7523.5963

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1906phae.proj..582W

Nov. 8, 1906

Fourth Type Star +31° 1388 Phot J Ir. Obs

6 34 +31.5
1 14
5 20
6 40

9.5 bags used

Index R & A

10 45 30
10 17 22

232.0	~~229.6~~	comp. Star dis	A
315.3	312.0	83.3 ^	
57.8	60.0	67.3 ^	
125.1	121.3	150.6 ^	+0.56 ^

236.2	239.0		
306.3	310.0	70.1 ^	+0.50 ^
49.0	47.9	86.8 ^	
135.8	134.0	156.9 ^	+0.44 ^

Index I & B

321.5
43.1 81.6 ^ B
146.1 69.2 ^
215.3 150.8 ^ +0.56 ^

330.0 +0.52 ^
37.0 67.0 ^
136.4 87.4 ^
~~226~~ 53.8 154.4 ^ 0.49 ^

Mean +0.51

10 34 6
79 36 ^
10 39 48 ^
5 +4 ^
15 39 52 ^

7523.6527

Seeing very bad in first half of above group. Is seeing grow better in last half, first half is taken.

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1906phae.proj..582

Nov. 8, 1906

R.A. 2 21
N.A. -4 15
Dec. + 30.9
P.A. 289.6 Ver S
Sprocket -2.5 S
" -1.5 b

o beti Phot. Hr H. Obs. Bonn Rec.

2	12	-3.6
2	29	
0	17	

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1906phae.proj..582w

Nov, 8, 1906

Index R & D

93.2 ← var. dis

11 11 40	99.6	6.4^	
	272.3	7.8^	A
	250.1	14.2^	-6.04^

92.6		-6.00^
100.0	7.4^	
272.3	7.3^	
279.6	14.7	-5.96^

Index L & B

2.2		
10.0	7.8^	
181.7	9.0^	B
190.7	16.8^	-5.67^

1.3		-5.72^
10.0	8.7^	
182.3	7.3^	
189.6	16.0	-5.78^

11	20	18	
	31	58^	
11	15	59^	
5		+4^	
16	16	3	

S.T. 2h 53m

R.A. + 0 37

Dec. - 3.0

7523.6778

Mean -5.86^

It's watch used for times tonight

Watch 4 sec. slow

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1906phae.proj..582W

Nov. 9, 1906 (Friday)

Iris

20	36	-12.1
22	53	
2	17	

7 27 0 All cloudy, no stars visible

7 30 Sky ~~practically~~ all cloudy

8 00 " " " "

8 15 " " " "

~~Fourth~~ Type Star +34° 4500

21	36	+34.9
24	16	
2	40	

8 45 0 Abandoned, clouds thicker again everywhere

8 50 0 Clouds now coming in in a continuous sheet from ~~south~~ to ~~south~~ west. Practically no stars visible and no chance for anything tonight

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1906phae.proj..582w

Nov. 10, 1906 (Saturday)

Iris

20	36	−12.1
22	46	
2	10	

7 22 0 Sky cloudy in this region.

From a transit ~~taken~~ with much dif. through clouds, having regard to motion of
7 37 0 Iris ~~two~~ and three days ago, an object (probably Iris) follows −12° 5831 (9.4) by 5 m. 8 sec. and is 13.5 to 14.0 north of it.

A second transit through clouds makes the
7 43 0 above object (probably Iris) follow −12° 5331 (9.4) by 5m. 10 sec. and about 14.0 north of it.

7 48 0 Sky very cloudy.

Earth Type Star +34° 4500

21	36	+34.8
23	36	
2	00	

6 30 0 Sky ~~too~~ cloudy

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1906phae.proj..582W

Nov. 10, 1906

Double Star −6° 5664 (6.0) H. Obs Bowie Rec

20 59 −6.2
24 9
3 1.0

P. A 200° Dist 4" Image
Index Below
159.0 Southern and brighter dis.
8 59 2 199.8
346.4
16.4

159.2
202.6
333.4

Region too low, sky too hazy,
measurements too uncertain to finish.
Abandon
Sky also growing more hazy in this region

Fourth Type Star +40° 4210 Phot. 3 H. Obs Bowie Rec

20 17 +39.8
24 50
4 33

9 31 0 More clouds again, abandoned

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1906phae.proj..582W

Nov. 10, 1906

Fourth Type Star 65° 617 Phot I St. Obs Bonn Rca

10	35	+65.2
1	10	
9	25	
2	35	

Index Below

348.3 ~~4th~~ type dia

10 0 45	15.3	27.0"
	165.0	36.3"
	201.3	63.3" -2.74"

B

	342.8	-2.76"
	19.0	36.2"
	170.0	25.9"
	195.9	62.1" -2.78"

Index Above

	257.3	
	286.4	29.1"
	73.1	38.3"
	111.4	67.4" -2.59"

A

	251.6	-2.63"
10 8 20	290.2	38.6"
6 65"	79.5	26.5"
10 4 32"	106.0	65.1" -2.67"
5 -10"		
15 4 22"		Mean -2.70"

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1906phae.proj..5929

Nov 10. 1906

S.J. 1 49
H.A − 8 5.2
Sec + 67.4
P. A 59.3 for B
Sprocket −2.5 B
" −1.5 b

H's watch used for times
~~Hcatch~~ 10 sec. fast

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1906phae.proj..582W

Nov. 12, 1906 (Monday)

8 15 0 Sky suddenly became somewhat clear.

8 25 0 Sky pretty cloudy at present time again

8 45 0 Sky becoming thickly cloudy everywhere

9 15 0 Sky thickly cloudy everywhere, barometer low, no chance for anything tonight

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1906phaeo.proj.:5624

Nov. 13, 1906 (Tuesday).

Iris

20	36	-12.1
22	56	
2	20	

A faintest object precedes by
4 sec. and is 0'.4 north of it

A faint object follows by 3.5 sec
and is 4.5 north of it

7 45 0 A faint object follows by 25 sec
and is 4.5 north of it

A somewhat brighter object follows
by 39 sec and is 4.1 north of it

Double Star -6° 5664 (6.0) Phot R H. Ck Bouvier

20	56	-6.4
23	41	
2	45	

Measurements on fol page

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1906phae.proj..582W

Nov. 13, 1906

P. A 200° Dist 4" components too close to est. mag. ^

Index Below

	327.0	Southern and brighter disc	
8 7 5	33.1	66.1 ^	
	331.0	55.3 ^	
	26.3	121.4 ^	1.16 ^
	153.3		1.26 ^
	204.0	50.7 ^	
	332.5	61.5 ^	
	34.0	112.2 ^	1.37 ^
	56.0		
	124.4	68.4 ^	
	254.0	38.0 ^	
	292.0	106.4 ^	1.50 ^
	71.7 ^		1.58 ^
8 23 45	111.6	39.9 ^	
30 50 ^	242.5	59.6 ^	
8 15 25 ^	302.1	99.5	1.67 ^
5 -5 ^			
13 15 20 ^			

Mean 1.42 ^

On account of poor seeing and closeness of components the observations of this double in above group are not considered critically accurate but only approximate The components ran together a good deal of the time and were only occasionally seperated

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1906phae.proj..582W

Nov. 13, 1906.

R A Taurii

3	55	+27.7
0	55	
3	0 0	
9	0 0	

Looked up above region to identify Comp. Star

Eneb's Star. 76. 1905 Phot J H. Obs. Bowie Sta

19	27	+55.1
25	20	
5	53	

Measurements on fol. page

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1906phae.proj..582W

Nov. 13, 1906.

Index Zeck

311.7 ← var. dia. I

10 9 45	54.3	102.6 ^	
	140.4	81.8 ^	B
	222.2	184.4 ^	
		175.6 ^	+0.08 ^

317.7

10 13 11	45.9	88.2 ^	+0.18 ^
	129.6	105.8 ^	
	235.4	194.0 ^	
		166.0 ^	+0.27 ^

Index R & B

220.0

10 17 33	323.3	103.3 ^	
	50.0	83.8 ^	A
	133.8	187.1 ^	
		172.9 ^	+0.13 ^

228.0

10 20 48	314.0	86.0 ^	+0.18 ^
	39.9	105.7 ^	
	145.6	191.7 ^	
		168.3	+0.22 ^

	59	137	^
10	14	79	^
5		−5	^
15	15	14	^

Mean +0.18 ^

7525.6355

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1906phae.proj..582W

Nov. 13, 1906

Index R & S

	219.0		II
10 25 15	325.3	106.3°	
	51.0	83.6°	A
	134.6	189.9°	
		170.1°	+0.19°
	229.3		
10 29 44	317.4	88.1°	+0.20°
	40.6	102.5°	
	143.1	190.6°	
		169.4°	+0.20°

Index L & A

	308.6		
10 34 44	53.8	105.2°	
	137.2	89.8°	
	227.0	195.0°	B
		165.0°	+0.29°
	319.5		
10 38 18	45.6	86.1°	+0.23°
126 121 °	130.0	102.8°	
10 31 60 °	232.5	188.9°	
5 -5 °		171.1°	+0.17°
15 31 55 °			

Mean +0.22°

7528.6471

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1906phae.proj..582W

Nov. 13, 1906

Index L & A

309,5

10 46 29	55.3	105.8		III
	140.4	81.4		
	221.8	187.2		
		172.8	+0.14	B
	321.0			
10 49 55	46.3	85.3	+0.20	
	127.7	107.8		
	235.5	193.1		
		166.9	+0.25	

Index R & B

218.0

10 54 50	323.8	105.8		
	50.4	83.8		
	134.2	189.6		
		170.4	+0.18	A
	227.7			
10 58 20	316.4	88.7	+0.16	
	42.2	99.2		
	141.4	187.9		
		172.1	+0.15	

	207	154	
10	51	84	
5		-5	
15	52	19	

Mean +0.18

7528.6613

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1906phae.proj.:592

Nov. 13, 1906

Index R&B

219.2 IV

11 2 55 325.0 105.8^
50.5 84.1^ A
134.6 189.9^
190.1 +0.19^

228.0

11 6 3 316.5 88.5^ +0.20^
40.2 103.2^
143.4 191.7^
168.3^ +0.22^

Index L&A

127.0

11 10 40 239.0 112.0^
319.8 83.9^
43.7 195.9^ B
164.1^ +0.30

140.0

11 12 40 227.5 87.5^ +0.30^
308.2 107.8^
56.80 195.3^
164.7^ +0.29

30 138^
.11 7 64^
5 -5^
16 7 59^

Mean +0.25^

7528.6722

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1906phae.proj..582W

Nov. 13, 1906

Index L & A

			129.0		
11	18	2	236.1	107.1 ^	V
			321.0	85.4 ^	B
			46.4	192.5 ^	
				167.5 ^ +0.24 ^	
			139.4		
11	20	28	226.9	87.5 ^ +0.26 ^	
			308.4	107.5 ^	
			55.9	195.0 ^	
				165.0 ^ +0.29 ^	

Index L & B

			37.3		
11	24	40	147.3	110.0 ^	A
			229.3	86.1 ^	
			315.4	196.1 ^	
				163.9 ^ +0.30 ^	
			49.4		
11	27	48	136.2	86.8 ^ +0.26 ^	
			219.0	105.5 ^	
			324.5	192.3 ^	
				167.7 ^ +0.23 ^	

	89	118	^
11	22	44	^
5		-5	^
16	22	39	^

7528.6823

L.S. 3 19
H.A +7 45
Dec +56.5
L.A 219.0 Index L
L pinch – 2.5 B
" – 1.5 b

Mean +0.26 ^

It's ~~watch~~ need for time is
Watch 5 sec. fast

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1906phae.proj..582

Nov. 14, 1906 (Wednesday)

Iris

20	36	-12.1
23	00	
2	24	

An object which may possibly be Iris fol. by about 67 sec. and is about 7' north of it.

Another object (a little brighter) and which may possibly be Iris follows by about 93 sec. and is about 7.2 north of it.

Double Star -6° 5664 (6.0) Phot. R H. Obs Bowie Sec

20	56	-6.4
23	41	
2	45	

P.A. 200° Dist. 4" Mags. 6.5, 8.0

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1906phae.proj..582w

Nov. 14, 1906

Index Below

330.6 ← Northern & brighter dis

8 6 35	26.5	55.9 ^	
	155.7	48.5 ^	(B)
	204.2	104.4 ^	1.55 ^
	339.0		1.58 ^
	21.5	42.5 ^	
	149.0	59.0 ^	
	208.0	101.5 ^	1.62 ^

Index Above

	241.4		
	298.5	57.1 ^	(A)
	68.4	48.6 ^	
	117.0	105.7 ^	1.52 ^
	249.0		1.46 ^
8 22 48	298.0	49.0 ^	
28 83 ^	57.8	61.3 ^	
8 14 42 ^	119.1	110.3 ^	1.41 ^
5 −15 ^			
13 14 27 ^			

Mean 1.52 ^

7529.5517 Observations very dif. but ~~the~~ greatest possible care exercised. Air a little sharp and seeing rather blurry, images running together a good deal. Have however waited for moments of good definition as could be obtained

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1906phae.proj.:582

Nov. 14, 1906

Enebo Year 76. 1905 Phot 3 H. Obs Bowie Rec

19 27 +55.1
24 37
5 10

Index L & A I

44.0 ← Comp. Star dis

9 4 40
139.6 95.6 ^
235.0 74.1 ^ B
309.1 169.7 ^ +0.20 ^

51.9 +0.17 ^

9 7 20
130.0 ~~29.~~ 78.1 ^
225.5 94.3 ^
319.8 172.4 ^ +0.14 ^

Index R & B

322.3

9 11 49
41.1 78.8 ^
135.0 93.8 ^ A
228.8 172.6 ^ +0.14 ^

314.2 +0.14 ^

9 15 15
51.9 97.7 ^
145.0 74.9 ^
219.9 172.6 +0.14 ^

Mean +0.16 ^

37 124 ^
9 9 46 ^
5 -15 ^
14 9 31

75295900

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1906phae.proj..582W

Nov. 14, 1906

Index R & B

II

			321.3		
9	28	36	41.8	80.5 ^	A
			134.2	94.1 ^	
			228.3	174.6 ^	+0.10 ^
			315.0		+0.12 ^
9	31	10	50.8	95.8 ^	
			144.5	76.5 ^	
			220.~~9~~1.0	172.3 ^	+0.14 ^

Index L & A

			235.5		
9	34	44	310.0	74.5 ^	B
			46.0	94.3 ^	
			140.3	168.8 ^	+0.21 ^
			224.7		+0.18 ^
9	37	5	319.9	95.2 ^	
			52.9	76.4 ^	
			129.3	171.6 ^	+0.16 ^

Means +0.15 ^

	130	95	^
9	32	54	^
5		-15	^
14	32	39	^

7529.6060

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1906phae.proj..582W

Nov. 14, 1906

Index L & A

III

233.2

9 45 30 — 308.2 — 75.0 ^

43.4 — 97.1 ^

140.5 — 172.1 ^ +0.15 ^

8

227.0 — +0.20 ^

9 48 54 — 319.2 — 92.2 ^

53.5 — 75.4 ^

128.9 — 167.6 ^ +0.24 ^

Index R & B

147.5

9 53 44 — 219.5 — 72.0 ^

314.1 — 98.4 ^

52.5 — 170.4 ^ +0.18 ^

A

134.9 — +0.22 ^

9 57 23 — 227.6 — 92.7 ^

326.2 — 73.7 ^

~~39.9~~ — 166.4 ^ +0.26 ^

203 151

9 50 83

5 -15

14 51 8

Mean +0.21 ^

7529.6188

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1906phae.proj..582w

Nov. 14, 1906

Index R & B

IV

146.1

10 8 33	218.2	72.1	A
	315.0	94.2	
	49.2	166.3	+0.26
	136.7		+0.29
10 13 14	226.0	89.3	
	326.0	73.9	
	39.9	163.2	+0.32

Index Left

45.7

10 18 24	139.5	93.8	
	234.1	76.7	B
	310.8	170.5	+0.18
	56.0		+0.19
10 21 49	130.8	74.8	
	224.6	94.7	
	319.3	169.5	+0.20

	60	120
10	15	30
5		-15
15	15	15

Mean +0.24

7529.6355

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1906phae.proj..582W

Nov. 14, 1906

Index L & A V

44.8

10 33 22	139.5	94.7	B
	235.1	75.6	
	310.7	170.3 +0.18	
	53.0		+0.16
10. 36 26	130.6	77.6	
	224.4	94.3	
	318.7	171.9 +0.15	

10 Index R & B

316.5

41 56	48.6	92.1	A
	145.3	72.7	
	218.0	164.8 +0.29	

10 54 8	316.5	~~325.0~~		+0.26
~~45 36~~	51.8	~~43.2~~	95.3	
164 112	144.6	~~131.9~~	73.3	
10 41 28	217.9	~~230.1~~	168.6 +0.22	
5 -15				Mean +0.21
15 41 13				

Last set above retaken as something was evidently wrong.

7529.6536

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1906phae.proj..582W

Nov. 14, 1906

Index R&B VII

			326.9		
11	0	25	42.7	75.8	A
			135.5	91.3	
			226.8	167.1	+0.24
			313.5		+0.19
11	4	45	52.6	99.1	
			145.2	73.6	
			218.8	172.7	+0.14

Index L&A

			234.5		
11	10	0	312.9	78.4	B
			43.2	98.7	
			141.9	177.1	+0.05
			222.6		+0.02
11	14	35	321.4	98.8	
	28	105	52.0	81.2	
11	7	26	133.2	180.0	0.00
5		-15			
16	7	11	S.T. 3h	10m	Record +0.10
			R.A. +7	40	
7529.6716			Dec. +56.5		It's watch used for times
			P.A. 39.0 Var B		Watch 15 sec fast
			Sprocket -2.5 B		
			" -1.5 L		

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1906phae.proj..582W

Nov. 14, 1906

B & L 1182			B 394		
11	33	49.0	11	34	0.0
11	34	49.0	11	35	0.0

Dis. Sup III Phot. R & Obs. Bowie Rec.
Comps. with nearest of three Sats. (after eclipse)
on same prec. side = Sat. I

		11	45	17	101.9^ 217.2
11	46	0^		45	103.0^ 319.1
		+12^			204.9^
11	46	12^	46	21	215.0 1
					−0.5^ 102.4^
				37	321.0
				57	218.5
11	47	35^			103.4^
		+13^	47	29	101.9^ 321.9
11	47	48^		48	205.3^ 218.8 2
			48	6	−0.5^ 102.6^ 320.87

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1906phae.proj..582W

Nov. 14, 1906

						11
11	48	53^	48	25	101.9^	218.7
		+13		41	97.5^	320.6
11	49	6^	49	5	199.4^	222.8
				22	-0.4^ 99.7^	319.5
				45		279.2
11	50	17^	50	11	96.0^	316.5
		+13^		23	98.5^	221.1
11	50	30^		48	194.5^	319.6
					-0.3^ 97.2^	
			51	5		220.4
11	51	32^		26	95.7^	316.1
		+13^		40	92.7^	223.0
11	51	45^		59	188.4^	315.7
					-0.2^ 94.2^	
			52	12		223.5
11	52	44^		38	92.0^	315.5
		+13		53	86.1^	225.0
11	52	57^		11	178.1^	311.1
			53		0.0^ 89.0^	
				21		227.8
11	53	55^		39	81.2^	309.0
		+13^		6	83.1^	227.4
11	54	8^	54	33	164.3^	310.5
					+0.3^ 82.2^	
				53		231.0
11	55	16^	55	10	73.5^	304.5
		+13^	"	25	70.3^	233.0
11	55	29^	"	35	143.8^	303.3
					+0.7^ 71.9^	
11	56	2^	55	49	+1.1^ 61.7^	237.1

11

12

12

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1906phae.proj.:582

Nov. 14, 1906.

11	56	18 ^ 11		56	.4	+1.3^58.5^	298.8
	56	34 ^			20	+1.3^58.2^	2 ~~39.5~~ 49.3
	56	51 ^			37	+1.3^56.5^	298.5
	57	10 ^			56	+1.6^51.2^	242.0
	57	21 ^		57	7	+1.9^44.7^	293.2
	57	32 ^			18	+2.1^42.5^	248.5
	57	56 ^			42	+2.1^41.5^	291.0
	58	8 ^			54	+2.4^37.0^	249.5
				58	~~+4~~		~~288.5~~
	58	51 ^		58	37		286.5
	59	15 ^		59	1		seen
	59	26 ^		"	12		susp.
				"	45		not seen later

Limit of Vis.

			12	0	3		254.0
12	0	34 ^			19	31.0^	285.0
		+14 ^				36.5^	
					40	67.5^	250.5
12	0	48 ^		1	12	+2.6^33.8^	287.0

~~No~~ Only two sets could be obtained for contact.

Seeing generally more or less blurry throughout and especially so at times. At times the stars would entirely dis. on account of seeing, giving the impression that there must be clouds in the sky although the sky was clear. This fact made it necessary to take the

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1906phae.proj..582w

Nov. 14, 1906

settings somewhat slowly waiting for intervals of as good seeing as possible.

S. & b. 1182			S. 394		
12	12	44.5	12	13	0.0
12	13	44.5	12	14	0.0

∴ In force. Eclipse.

From 11h 39m 2s. to 11h 49m 2s. add 12 secs,
" 11 49 2. " 11 55 53. " 13 "
" 11 55 53. " 12 4 19. " 14 "
" 12 4 19. " 12 12 45. " 15 "

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1906phae.proj.:582

Nov. 16, 1906 (Friday)

Iris

20	36	−12.1
23	30	
2	54	

Star b precedes −12° 5886 (8.5) by 21.5 sec and is 11.'5 north of it.

Star a follows −12° 5886 (8.5) by 5 sec and is 8.'0 north of it

Star c precedes b by 11 sec. and is 5.'8 north of it.

Star c which is about the brightness of star b (a 9.1 mag. by S. D.) is not in the S. D. and must in all probability ~~must~~ be Iris

Enebo's Var. 76. 1905 Phot. J. K. Obs. Bowie Rec

19	27	+55.1
24	27	
5	00	

For measurements see fol. page

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1906phae.proj..582w

Nov. 16, 1906

Index L & A

212.4 ← comp. star dis.

8 45 15	331.4	119.0 ^		9
	40.9	101.7 ^		
	142.6	220.7 ^		
		139.3 ^ − 0.79 ^		
	220.9			
8 49 9	324.0	103.1 ^	0.84 ^	9
	31.4	122.2 ^		
	153.6	225.3 ^		
		134.7 ^ − 0.88 ^		

Index R & B

~~53 38~~	~~2428~~			
	~~2994~~			9
	309.2			
8 55 23	55.0	105.8 ^		
	122.6	119.6 ^		
	242.2	225.4 ^		
		134.6 ^ − 0.88 ^		
	299.6			9
8 57 54	65.5	125.9 ^	− 0.88 ^	9
206 101 ^	133.7	99.2 ^		5
8 51 55 ^	232.9	225.1 ^		14
5 −53 ^		134.9 ^ − 0.88 ^		
13 51 2 ^				7

7531.5771

Mean − 0.86 ^

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1906phae.proj..5824

Nov. 16, 1906

II

Index R of B

	310.1	Comp Star dis	
9 2 40	54.1	104.0^	A
	117.0	126.9^	
	243.9	230.9^	
		129.1^	-1.00^
	301.3		
9 5 5	64.2	122.9^	-0.95^
	129.0	103.5^	
	232.5	226.4^	
		133.6^	-0.90^

Index L of A

	219.4		
9 9 45	325.0	105.6^	
	31.5	118.8^	
	150.3	224.4^	B
		135.6^	-0.86^
	211.6		
9 12 20	333.6	122.0^	-0.82^
	43.1	98.9^	
	143.4 20	220.9^	
		139.1^	-0.79^

	28	110	^
9	7	28	^
5		-53	^
14	6	35	^

Means -0.88^

7531.5879

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1906phae.proj..582w

Nov. 16, 1906

Index L & A — III

		143.4 ← var. dis		
9	23	20	220.7	77.3^ (B)
			332.7	60.5^
			33.2	137.8^ −0.82^
			152.6	−0.84^
9	26	15	211.1	58.5^
			323.0	77.0^
			40.0	135.5^ −0.87^

Index R & B

			53.2	
9	30	35	131.5	78.3^ (A)
			242.0	59.4^
			301.4	137.7^ −0.82^
			63.1	−0.81^
9	33	10	123.5	60.4^
			231.1	78.2^
			309.3	135.6^ −0.80^
	112	80^		
9	28	20^		
5		−53^		
14	27	27^		

Means −0.82^

7531.6024

1906phae.proj..582W

~~Nov.~~ 16, 1906

Index R & S

54.0 IV

9 37 11 131.0 77.0^ A
242.0 58.4^
300.4 135.4^ -0.87^

64.0 -0.86^
9 40 19 122.41 58.1^
233.0 78.3^
311.3 136.4^ -0.85^

Index L & A

331.5
9 44 49 35.8 64.3^
139.6 82.4^ B
222.0 146.7^ -0.64^

322.0 -0.70^
9 48 2 40.9 78.9^
152.1 61.8^
213.9 140.7^ -0.76^

169 81^
9 42 35^
5 -53^
14 41 42^

Mean -0.78^

7531.6123

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1906phae.proj..582W

Nov. 16, 1906

Index Left

330,5

9	54	42	34.72	63.7^
			135.1	85.1^
			223.2	148.8^ −0.60^

322.1 −0.68^

9	57	14	44.2	82.1^
			153.0	59.0^
			212.0	141.1^ −0.75^

Index Rad

232.6

10	0	52	312.7	80.1^
			60.9	62.7^
			123.6	142.8^ −0.72^

237.5 −0.69^

10	5	25	302.7	65.2^
38	116	133^	52.1	80.5^
9	59	33^	132.6	145.7^ −0.66^
5		−53^		
14	58	40^		Mean −0.68^

7531.6241

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1906phae.proj.582W

Nov. 16, 1906

Index 2 & B

VI

232.3

10 22 40 — 310.5 — 78.2^ — A
56.9 — 69.0^
125.9 — 147.2^ −0.63^

239.0 — −0.62^

10 25 46 — 306.9 — 67.9^
52.1 — 80.7^
132.8 — 148.6^ −0.60^

138.2

10 30 20 — 224.3 — 86.1^ — B
326.6 — 68.8^
35.4 — 154.9^ −0.48^

~~147.8~~

~~33 37~~ — ~~216.4~~ — −0.47^

315.0

10 35 28 — 46.2 — 88.2^
67.7^
112 134^ — 148.0 — 155.9^ −0.46^
10 28 34^ — 215.7
5 −53^
15 27 41^

Mean −0.54^

7531.6442

1906phae.proj..582W

~~Nov.~~ 16, 1906

~~Index~~ Ld A VII

~~3 27.8~~

~~42 52~~ ~~3.6.3~~ B

136.7

10 45 2 225.0 88.3^

327.8 70.1^

37.9 158.4^ − 0.41^

147.5 −0.40^

10 49 0 217.2 69.7^

316.4 90.5^

46.9 160.2^ −0.38^

~~Index~~ R + B

47.6

10 53 17 136.45 88.9^ A

235.6 70.0^

305.6 158.9^ −0.40^

57.6 −0.41^

10 58 8 126.2 68.6^

205 27 ^ 225.9 89.5^

10 51 22 ^ 315.4 158.1^ −0.42^

5 −53 ^

15 50 29 ^

~~Mean~~ −0.40^

7531.6600

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1906phae.proj..582W

Nov. 16, 1906

Index R & B

49.6

11 5 46	134.5 51.4	85.8 ^	VIII	
	236.0	71.6 ^		
	307.6	157.4 ^	− 0.43 ^	A
	56.0		− 0.36 ^	
11 10 18	128.7	72.7 ^		
	224.9	91.9 ^		
	317 x 6.8	164.6 ^	− 0.29 ^	

Index L & A

315.9

11 15 18	47.0	91.1 ^		
	146.1	73.1 ^		
	219.2	164.2 ^	− 0.30 ^	B
	324.2		− 0.28 ^	
11 19 23	39.0	74.8 ^		
	136.0	92.0 ^		
	228.0	166.8 ^	− 0.25 ^	

49 105 ^			
11 12 41 ^			
5 −53 ^			
16 11 48 ^	R.S. 3	20	Mean − 0.32 ^
	R.A 7	48	

7531.6749 Dec +56.5

P.A 39.2 hr B

Sprocket −2.5 B

" −1.5 b

It's a watch used for times

Watch 53 sec. fast

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1906phae.proj..582w

Nov. 17, 1906 (Saturday)

Iris

20	36	−12.1
24	16	
3	40	

8 30 0 Region ~~too~~ low, and ~~too~~ much cloud to see any stars in this vicinity.

α beti Phot. R H. Obs. Bowie Rec

2	12	−3.6
0	32	
1	40	
10	20	

9 8

8

9

9

5

14

7 5

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1906phae.proj..582w

Nov. 17, 1906

Index Left

9 24 54	178.5	357.9	var. dis.	
~~8 44 10~~	183.2	2.7	4.7	
	357.7	178.3	6.2	
	3.9	184.0	10.9	-6.61
	178.0			
	183.8	357.2	5.8	-6.61
	358.0	4.4	5.1	
	3.1		10.9	-6.61
	Clouds thicker			B
8 56 0	Sky much more cloudy everywhere			
	178.4			
	183.6			

Index Right

	268.7		
	273.3	4.6	
	87.5	7.2	
	94.7	11.8	-6.44
			A
	268.1		-6.42
9 13 18	274.3	6.2	
37 72	87.8	5.8	
9 18 66	93.6	12.0	-6.40
5 -1 -11			
14 17 55			
7532.5957			Mean -6.52

The preceding observations were made through more or less clouds The clouds were more

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1906phae.proj..582W

Nov. 17, 1906

pronounced in first half of group although somewhat dif. in both halves. As sky became clearer, first half was retaken

~~Sky~~ blonds growing decidedly ~~more~~ thicker and uniformly so over ~~the~~ whole sky. No chance for anything further.

It's watch used for times.
Watch 1 m. 11 sec. fast.

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1906phae.proj..582w

Nov. 19, 1906 (Monday)

Iris

20	44 -12.0
23	24
2	40

7 40 0 Iris precedes -11° 5515 (8.5) by 11 sec. and is 4.7 north of it.

7 50 0 Much cloudy west of the meridian = ~~too~~ cloudy for 76.1905

8 0 0 Cloudy everywhere at present time.

Grebe Var. 76.1905. Phot J & Obs. Bowie Rec

19	27	+55.1
24	27	
5	00	

For measurements see fol. page

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1906phae.proj..582w

Nov 19, 1906

Index Lock I

313.5 ← var. dis

8 25 42	51.0	97.5^	B
	141.3	80.5^	
	221.8	178.0^	−0.04^

321.8

8 28 48	41.7	79.9^	0.00^
	129.2	102.8^	
	232.0	182.7^	
		177.3^	+0.05^

Index R & B

220.0

8 33 0	322.0	102.0^	
	51.6	80.6^	A
	132.2	182.6^	
		177.4^	+0.05^

229.4

8 35 54	313.2	83.8^	+0.08^
	41.2	101.9^	
	143.1	185.7^	
		174.3^	+0.11^

Mean +0.04^

	121	144	^
8	30	51	^
5	−1	−19	^
13	29	32	^

7534.5622

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1906phae.proj..582W

Nov. 19, 1906

Index Q & B

II

220,3 ← var. dis

8	41	55	321.8	101.5^
			51.7	82.0^
			133.7	183.5^
				176.5^ + 0.06^

231.1

8	45	0	313.8	82.7^ + 0.05^
			41.6	102.1^
			143.7	184.8^
				175.2^ + 0.09^

Index L & A

129.0

8	48	48	234.6	105.6^
			322.2	79.6^
			41.8	185.2^
				174.8^ + 0.10^

141.6

8	51	28	225.0	83.4^ + 0.05^
			312.1	99.7^
			51.8	183.1^
				176.9^ + 0.06

	185	131	^
8	46	48	^
5	-1	-19	^
13	45	29	^

7534.5732

Mean + 0.05^

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1906phae.proj..582W

Nov. 19, 1906

Index L × A

III

51.7 ← comp. Star dis.

8	58	18	
		131.2	79.5 ^
		224.6	99.4 ^
		324.0	178.9 ^ + 0.02 ^
		43.3	+ 0.05 ^
8	59	52	
		141.3	98.0 ^
		234.2	77.8 ^
		312.0	175.8 ^ + 0.08 ^

Index R × B

325.2

9	5	0	
		41.9	76.7 ^
		135.0	93.3 ^
		228.3	170.0 ^ + 0.19 ^
		313.0	+ 0.16 ^
9	7	0	
		52.7	99.7 ^
		144.0	73.4 ^
		217.4	173.1 ^ + 0.13 ^

Mean + 0.10 ^

34	129	70	^
8	62	32	^
5	-1	-19	^
14	1	13	^

7534.5841

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1906phae.proj..582

Nov. 19, 1906

Index R & B

IV

325.0

9 20 0 — 40.8 — 75.8 — A

133.4 — 98.2

231.6 — 174.0 + 0.11

317.5 — + 0.20

9 22 38 — 51.1 — 93.6

147.0 — 71.4

218.4 — 165.0 + 0.29

Index L & A

234.0

9 27 20 — 308.9 — 74.9 — B

42.3 — 97.7

140.0 — 172.6 + 0.14

223.0 — + 0.15

9 30 10 — 322.0 1,5 — 98.5

54.7 — 73.3

128.0 — 171.8 + 0.16

99 68

9 24 62

5 -1 -19

14 23 43

Mean + 0.18

7534.5998

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1906phae.proj..582W

Nov. 19, 1906

Index 2 & 4 V

234.8

9 35 0 308.4 73.6^ 8 10
41.0 101.7^
142.7 175.3^ + 0.09^

223.2 + 0.10^

9 38 2 320.3 97.1^ 10
52.3 77.7^
130.0 174.8^ + 0.10^

Index 2 + 3

145.4

9 44 48 218.9 73.5^ 4 10
314.8 95.7^
50.5 169.2^ + 0.20^

135.5 + 0.21^

9 48 18 229.0 93.5^ 10
165 68 ^ 324.2 74.8^
9 41 32 ^ 379.0 168.3^ + 0.22^ 10
5 -1 -19 ^ 5
14 40 13 ^ 15

Means + 0.16^

7534.6112

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1906phae.proj..582W

Nov. 19, 1906

Index R & B

145.8

VI

10	0	26	218.0	72.2		A
			316.1	93.9		
			50.0	166.1	+0.26	
			137.6		+0.30	
10	3	47	229.1	91.5		
			325.8	70.3		
			36.1	161.8	+0.35	

Index L & A

53.2

10	8	1	132.3	79.1		B
			222.9	94.4		
			317.3	173.5	+0.12	
			44.0		+0.14	
10	11	12	139.9	95.9		
	22	86	234.5	76.2		
10	5	52	310.7	172.1	+0.15	
5	-1	-19				
15	4	33				

Mean +0.22

7534.6252

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1906phae.proj..582W

Nov. 19, 1906.

Index L & A VII

52.8

10 17 50 — 127.0 — 74.2 ^ — B
223.0 — 97.5 ^
320.5 — 171.7 ^ + 0.16 ^

42.9 + 0.18 ^

10 22 8 — 140.5 — 97.6 ^
235.8 — 71.5 ^
307.3 — 169.1 ^ + 0.20 ^

Index R & B

314.5

10 27 30 — 50.3 — 95.8 ^ — A
147.8 — 68.7 ^
216.5 — 164.5 ^ + 0.29 ^

325.3 + 0.27 ^

10 31 8 — 40.0 — 74.7 ^
136.1 — 91.8 ^
228.5 7.9 — 166.5 ^ + 0.25 ^

10 97 96 ^
10 24 39 ^
5 -1 -19 ^
15 23 20 ^

Mean + 0.22 ^

7534.6412

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1906phae.proj..582

Nov. 19, 1906

Index R & B

312.6

10 38 18	49.9	97.3	
	145.5	70.8	A
	216.3	168.1 + 0.22	
	325.8		+0.20
10 42 36	41.5	75.7	
	134.5	94.6	
	229.1	170.3 + 0.18	

Index L & A

223.7

10 49 10	319.7	96.0	
	54.9	75.4	B
	130.3	171.4 + 0.16	
	234.1		+0.14
10 52 38	310.7	76.6	
181 102	43.5	97.3	
10 45 40	140.8	173.9 + 0.11	
5 -1 -19			
15 44 21		Mean	+0.17

7534.6559

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1906phae.proj..582W

Nov. 19. 1906

Index L & A IX

225.0

11	3	20	320.4	95.4 ^	B
			55.1	74.8 ^	
			129.9	170.2 ^	+ 0.19 ^

232.9 + 0.16 ^

11	6	27	311.0	78.1 ^	
			44.0	95.6 ^	
			139.6	173.7 ^	+ 0.12 ^

Index R & B

142.3

11	10	40	219.8	77.5 ^	A
			315.3	96.9 ^	
			52.2	174.4 ^	+ 0.11 ^

135.1 + 0.16 ^

11	14	0	228.8	93.7 ^	
	33	87 ^	325.7	75.2 ^	
11	8	37 ^	40.9	168.9 ^	+ 0.21 ^
5	-1	-19 ^			
16	7	18 ^			

Mean + 0.16 ^

S.S. 3h 28m
R.A. +7 55
Dec. +56.8
R.A. 218.5
Sprocket -2.5 B
" -1.5 b

7534.6717

It's watch used for times
Watch 1 m. 19 sec fast

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1906phae.proj..582

Nov. 22, 1906 (Thursday)

7 10 0 Sky pretty cloudy
7 20 0 " still more cloudy
8 0 0 " all cloudy
8 30 0 " " " Clouds thick and heavy
9 0 0 Sky all cloudy
9 45 0 Sky practically all cloudy
9 52 0 Sky all cloudy; no chance for any work

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1906phae.proj..582W

Nov. 23, 1906 (Friday)

Iris

20	44	− 12.0
23	34	
2	50	

A 9.6 mag follows −11° 5534 (8.5) by 14 sec and is 3.1 north of it

A 9.3 mag. which ought to be in the S. D but
7 30 0 is not, and which may be Iris although it is apparently out of place, follows the above 8.5 by 6 sec is about 5.'8 north of it

7 35 0 A 9.5 mag. follows above 8.5 by 1m 8 sec and is 3.'5 north of it.

A 9.9 mag. follows 11° 5540 (9.6) by about 4 sec. and 5.'5 south of it

Eneba Var. 76. 1905 Phot. 3 Ft. Obs. Bowie Pa

19	27	+55.1
24	17	
4	50	

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1906phae.proj..582

Nov. 23, 1906

Index Left

			323.5 ← var. dis.		I
8	10	50	41.0	77.5'	
			133.0	95.9'	B
			228.9	173.4'	−0.13'
			313.1		−0.12'
5	13	52	49.0	95.9'	
			141.7	77.8'	
			219.5	173.7'	−0.12'

Index R & B

			225.3		
8	18	43	315.8	90.5'	
			55.4	73.0'	
			128.4	163.5'	−0.31' A
			234.8		−0.33'
8	22	17	307.4	72.6'	
			47.6	89.1'	
			136.7	161.7'	−0.35'

	63	162	'
8	15	86	'
5	−1	−55	'
13	14	31	'

Mean −0.22'

7538.5518

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1906phae.proj..582W

Nov. 23, 1906.

Index R & B

225.2

δ 27 2

319.0	93.8	
57.7	68.3	A
126.0	162.1	−0.34

239.0 −0.47

δ 33 44

305.5	66.5	
52.0	82.2	
134.2	148.7	−0.60

Index L & A

139.9

δ 38 40

222.3	82.4	
331.0	61.5	B
32.5	143.9	−0.70

152.4 −0.76

δ 41 0

210.8	58.4	
32.8	79.3	
42.1	137.7	−0.82

	139	86
8	34	66
5	−1	−55
13	33	11

Mean −0.62

7538,5647 Much troubled by bad seeing and blurry images in above group and especially ins first half of group.

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1906phae.proj..582

Nov. 23, 1906.

Index Lack III

		142.5		
8	52	0	219.7	76.9^
			334.6	54.6^
			29.2	131.5^ −0.95^
			153.6	56.0^ −0.96^
8	54	30	209.6	75.0^
			324.4	131.0^ −0.96^
			39.4	

Index 2×8

		56.1		
8	58	10	130.3	74.2^
			243.0	59.9^
			302.9	134.1^ −0.89^
			64.4	−0.90^
			120.8	56.4^
			234.8	76.2^
			311.0	132.6^ −0.92^

Mean −0.93^

9	1	8	
33	165	48	^
8	56	27	^
5	−1	−55	^
13	54	32	^

7538.5796

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1906phae.proj..582W

Nov. 23, 1906

Index Q+B IV

53.8

9 5 50	130.2	76.4		A
	241.7	61.1		
	302.8	137.5	-0.82	
	63.4		-0.84	
9 9 20	120.4	57.0		
	232.7	78.9		
	3121 1.6	135.9	-0.86	

Index L+A

325.2

9 14 48	35.0	72.8		B
	151.4	59.0		
	210.4	131.8	-0.94	
	332.1		-0.88	
9 18 2	32.9	60.8		
	143.3	76.2		
	219.5	137.0	-0.83	

Mean -0.86

	46	120	
9	11	60	
5	-1	-55	
14	10	5	

7538.5904

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1906phae.proj..5827

Nov. 23, 1906

Index L&A

		325.6		V
9	24	20	36.6	71.0'
			152.1	60.3'
			212.4	131.3' −0.95'
			329.8	−0.88'
9	27	17	31.5	61.7'
			144.3	77.1'
			221.4	138.8' −0.80'

Index R&S

			240.9	
9	32	20	301.9	61.0'
			52.9	77.5'
			130.4	138.5' −0.80'
			229.8	−0.77'
9	35	5	312.3	82.5'
			63.5	59.0'
			122.5	141.5' −0.74'

	118	62	'
9	29	46	'
5	−1	−55	'
14	27	51	'

Mean −0.82'

7538.6027

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1906phae.proj..582W

Nov. 23, 1906.

Index R & B

~~238.5~~

~~305.5~~

~~42 + 2~~

blonde, reject above settings

VI

A

51.8

9 59 36

130.6	78.8	
238.0	66.4	
304.4	145.2	−0.67

59.6 −0.65

10 2 18

123.4	63.8	
230.0	83.6	
313.6	147.4	−0.63

Index L & A

330.9

10 6 48

B

33.5	62.6	
140.0	84.8	
224.8	147.4	−0.63

319.7 −0.66

10 10 7

42.0	82.3		
150.6	61.9		
212.5	144.2	−0.69	
39	77	109	
9	64	42	
5	−1	−55	
15	2	47	

Mean −0.66

7535.6270

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1906phae.proj..582W

Nov. 23, 1906.

Index L+A

		328.6		VII
10	25	34	67.8 ^	
		36.4	82.0 ^	
		140.4	149.8 ^ - 0.58 ^	
		222.4		
		320.5		-0.61 ^
10	29	8	80.3 ^	
		40.8	66.5 ^	
		148.5	146.8 ^ - 0.64 ^	
		215.0		

Index R+B

		236.7		
10	34	20	69.2 ^	
		305.9	88.1 ^	
		47.5	157.3 ^ - 0.43 ^	A
		135.6		
		227.7		-0.46 ^
10	35	25	86.3 ^	
		314.0	68.7 ^	
		57.8	155.0 ^ - 0.48 ^	
		126.5		

Mean -0.54 ^

	126	90	^
10	31	52	^
5	-1	-55	^
15	29	57	^

7538.6458

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1906phae.proj..582W

Nov. 23, 1906

Index R & S

235.0 VIII

11	5	44	307.86	72.6^	A
			45.7	91.8^	
			137.5	164.4^	−0.30^
			223.68		−0.28^
11	9	4	317.5	93.7^	
			55.1	71.9^	
			127.0	165.6^	−0.27^

Index Zach

145.6

11	13	15	219.6	74.0^	
			318.0	87.6^	
			45.6	161.6^	−0.35^
			138.3		−0.36^
11	16	16	226.5	88.2^	
			325.2	72.8^	
			38.0	161.0	−0.36^

Mean −0.32^

	43	79	^
11	10	65	A
5	−1	−55	^
16	9	10	

S. 3. 3 49

H. A +8 15

7538.6730 Hora +56.8

C. A 40.0 Zach S

It's watch used for times

Watch 1 m 55 sec fast

Magnifyer not set to hand sprocket not used at region however thoroughly identified

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1906phae.proj..582W

Nov. 24, 1906 (Saturday)

Iris

21	2	-11.9
23	37	
2	35	

7 19 0 clouds
7 24 0 " thick

Ons examination tonight of region last night, it appears that neither of the objects examined was Iris

7 29 0 Still a good many clouds

Fourth Type Star +36°3243 Phot. 3 Hr. Obs Bonn Obs

18	40	+37.4
24	13	
5	33	

color 5

7 53 0 clouds
8 0 0 "

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1906phae.proj..582W

Nov. 24, 1906

Index Left

60.0 ← 4th type dis

8 37 24	123.5	63.5'
	234.1	77.9'
	312.0	141.4' −0.75'

52.4 −0.80'

	128.3	75.9'
	241.9	60.1'
	302.0	136.0' −0.86'

Index Right

	322.2	
	42.4	80.2'
	149.9	62.2'
	212.1	142.4' −0.73'

331.0 −0.65'

8 47 20	35.40	64.0'
84 44'	140.7	82.7'
8 42 22'	223.4	146.7' −0.64'
5 −1 −50'		
13 40 32'		

Mean −0.74'

S. T. 1h 26m

7539.5698 H. A. +6 46

Dec. +37.0

R. A. 236.5 Ver. 8

Sprocket +0.5 8

" +1.5 b

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1906phae.proj..582

Nov. 24, 1906.

Fourth Type Star +34° 4500 Phot. J. H. Obs. Lowell Pee

21 36 +34.8 Color 6

25 31

3 55

Full aperture used

Index Left

250.1 ← 4th type dia.

9 13 38

296.9 46.8" B

73.5 34.5"

108.0 81.3" -2.16"

2550 -2.18"

290.8 35.8"

69.0 44.1"

113.1 79.9" -2.20"

Index Right

157.4

207.4 50.0"

345.5 33.0" A

18.5 83.0" -2.11"

164.1 -2.08"

200.4 36.3"

337.0 48.6"

25.6 84.9" -2.05"

Mean -2.13"

9 21 27

34 65"

9 17 32"

5 -1 -50"

14 15 42"

7539.5942

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1906phae.proj..582w

Nov. 24, 1906

S.J. 1h 55m
H.A. +4 17
Dec. +35.3
P.A. 251.0 Ver. S
Sprockets +0.5 S
" +1.5 L

Fourth Type Star +38° 1539 Phot. J H. Obs Lowe's Rec

6	27	+38.6
2	02	
4	25	
7	35	

9.5 bar used

b, color 4 in finder and also in phot.

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1906phae.proj..582

Nov. 24, 1906

Index R & A

	75.5 ← 4th type dis.		
9 52 37	106.0	30.5″	A
	261.3	22.3″	
	283.6	52.8″	−3.15″
	80.5		−3.10″
	102.9	22.4″	
	255.7	32.7″	
	288.4	55.1″	−3.05″

Index L & B

	346.2		
	16.3	30.1″	B
	172.0	20.6″	
	192.6	50.7″	−3.24″
	350.5		−3.18″
	13.6	23.1″	
	167.8	30.2″	
	198.0	53.3″	−3.13″

10	1	25	
19	53	62	
9	56	61	
5	−1	−50	
14	55	11	

Mean −3.14″

S.J. 2^{h} 37^{m}

H.A −3 55

7539.6216 Dec. +38.0

P.A. 190.5 Ver. B

Sprocket −3.5 B

" −2.5 b

H's watch used for times

Watch 1 m. 50 sec. fast

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1906phae.proj..582W

Nov. 25. 1906. (Sunday).

B. & C. 11 Az.			B. 394.		
12	32	0.5	12	32	0.0
	33	0.5		33	0.0

13	6	0	seen.
13	6	30	Cloudy
13	7	0	seen.
13	7	46	seen faintly. (clearer).
13	8	30	not seen. Some cloudy.
13	9	5	" " " "
13	9	50	" " " "

B & C. 11 Az.			B. 394.		
13	21	59.4	13	22	0.0
	22	59.5		23	0.0

Troubled somewhat by clouds in above eclipse.

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1906phae.proj...582W

Nov. 29. 1906. (Thursday).

Sr. somewhat belated so eclipses taken visually.

B. & A. C. 11A2.			B. 394.		
14	14	6.2	14	14	0.0
	16	6.3		16	0.0

14	22	30	Seen.
	22	51	"
	23	19	"
	23	38	"
	23	50	"
	24	1	" faintly.
	24	12	" "
	24	21	" "
	24	33	not seen.
	24	59	" "

B. & A. C. 11A2.			B. 394.		
14	33	6.6	14	33	0.0
	34	6.6		34	0.0

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1906phae.proj..582W

For observations on Dec. 1. 1906. (Saturday), see Accident Book. p. 3, f.f.

(This book not at hand at time, so observations recorded in Accident Book as above indicated.).

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1906phae.proj..582W

Dec. 4, 1906 (Tuesday)

Fourth Type Star +2° 4709 Phot 3 & 0h Bowie Rec

23	39	+2.7
24	24	
0	45.	

color 6 in Phot. color 5 in finder
9.5 b cap used

Index Lock

71.4 ← 4th type dis

111.9	40.5^	
256.5	30.4^	
286.9	70.9^	-2.48^

B

76.5		-2.42^
107.5	31.3^	
250.2	43.4^	
293.6	74.7^	-2.36^

Index R & B

340.3		
19.3	39.0^	
169.2	26.5^	
1957	65.5^	-2.66^

A

346.1		-2.69^
15.2	29.1^	
164.8	34.7^	
199.5	63.8^	-2.72^

Mean -2.56^

7 34 20

7 43 33

77 53 ^

7 38 56 ^

5 +23 ^

12 39 19 ^

7549.5273

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1906phae.proj..582W

Dec. 4, 1906

S.J. 1 3
Hb.A. +1 20
Dec. +2.9
P.A. 166.6 Dec B
Sprocket -9.5 A 14.5 A
" -8.5 B or 15.5 B
" -8.0 b 16.0 b

Fourth Type Star +61 667 Chrot. 3 H. Obs Bonn Rec

3	53	+61.5
1	23	
2	30	
9	30	

8
8
5
13
75

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1906phae.proj..582W

Dec. 4, 1906

Index Lad

50.5 ← 4th type dis

8 29 27	130.7	80.2 ^
	244.6	53.9 ^
	298.5	134.1 ^ −0.89^

8

61.4	−0.87^
119.6	58.2 ^
231.8	78.1 ^
309.9	136.3 ^ −0.85^

Index R & S

322.0	
37.9	75.9 ^
155.0	53.1 ^
208.1	129.0 ^ −1.00^

A

333.8	−1.03^
28.3	54.5 ^
145.8	71.6 ^
217.4	126.1 ^ −1.06^

δ	35	54	
	64	81	^
8	32	40	^
5		+23	^
13	33	3	^

Mean −0.95^

J. J. 1ʰ 48ᵐ

H. A. −2 10

Dec. +61.1

R. A. 183.6 Sir S

Sprocket −4.5 A
" −3.5 R
" −3.0 b

7549.5646

It's watch used for times in previous observations

Watch 23 sec. slow

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1906phae.proj..582W

Dec. 4, 1906

B & b 1182			B 394		
8	47	56.0	8	48	0.0
8	48	55.9	8	49	0.0

Dis. Jup. I Phot. R St. Obs. Bowie Rec.
Comp. with nearer of two Sats. on prec. side = Sat. IV

			9	11	53	28.0	
						120.0^	
9	12.	45^		12	26	121.1^	148.0
		+6				241.1^	
9	12	51		"	53	120.6^	29.1
						−1.2^	
				13	48		150.2
				14	15	120.8^	29.0
9	14	55^		"	30	114.7^	149.8
		+6				235.5^	
9	15	1^		15	14	117.8^	33.8
						−1.1^	
				"	41		148.5
				17	45	120.6^	29.9
9	18	40^		18	16	123.0^	150.5
		+7				243.6^	
9	18	47^		19	8	121.8^	28.0
						−1.3^	
				"	31		151.0
				"	44	121.7^	28.8
9	20	18^		20	3	124.0^	150.5
		+7				245.7^	
9	20	25^				−1.3^ 122.8^	

9 9 9 1 2 3 4

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1906phae.proj..582W

Dec. 4, 1906

			9	20	22			28.0	4
				21	3			152.0	
				22	19		122.6^	28.2	
9	22	46^		"	34		125.3^	150.8	
		+7		"	49		247.9^	27.9	
9	22	53^	53	23	20	-1.4^	124.0^	153.2	
9	25	47^	26 2	25	40	-1.2^	121.0^	27.0	
	26	18^	35	26	11	-1.1^	118.0^	148.0	
	26	52^	0	"	45	-1.2^	120.5^	30.0	
	27	7^	14	27	0	-1.2^	120.3^	150.5	
	27	21^	38 26	"	14	-1.2^	120.2^	30.2	
	27	56^	4 28	"	49	-1.1^	117.6^	150.4	
	28	13^	30 54	28	6	-0.9^	114.2^	32.8	
	28	46^	34	"	39	-0.7^	109.2^	147.0	
	29	23^	34	29	16			37.8	
	29	44^			36			Seen	

Put on Ring Haicr. Eyepiece No. 1 as soon as phot. could be removed into Sat. not then seen

Before begining eclipse the seeing was so exceedingly bad that H. had very serious misgivings about attempting it photometrically. However as once in a while the air became a little more steady, it was finally attempted. Scarcely anything could be got during the variation in light and eclipse considered

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1906phae.proj..582W

Dec. 4, 1906

B & b 1182			B 394		
9	37	51.8	9	38	0.0
9	38	51.7	9	39	0.0

(Con. from previous page)
poor and of no particular value. The disk of Sat. for the larger part of the time, would overlap both Sats. on account of the very blurry seeing. When it was found that nothing more could be obtained with Phot. said Phot was removed as soon as could be and Ring Micrometer Eyepiece No. 1 put on but Sats. not then seen.

∴ In previous eclipse

From 9h 16m 38s. to 9h 17m 34s. add 6 secs.
9 17 34. " 9 29 31. " 7 "
9 29 31. " 9 37 12. " 4 "

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1906phae.proj..582W

Dec. 5, 1906 (Wednesday)

Double Star No 221 (Barnard's List) = χ Aquarii

23	11	−9.6
24	37	
1	26	

Sky ~~too~~ cloudy companion only seen at times by glimpses. Impossible to measure Sky now growing more cloudy

Double Star No 22 (Barnard's List) = Σ 142

1	24	+14.6
0	54	
	30	
11	30	

~~Thickly~~ cloudy in this region Impossible to find star on account of clouds

8.0.0 Clouds now becoming heavier

8.8.0 Sky still cloudy, clouds everywhere

8 30 0 Thickly cloudy everywhere no stars visible; storm coming; no chance for anything further

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1906phae.proj..582W

Dec. 6, 1906 (Thursday)

Double Star No. 221 (Comstock's List) ψ Aquarii
23 11 -9.6 Ft. Obs. Bowie Res
24 37
1 26 P. A. 310 Dist. 50

Abandoned

Double Star No. 211 (Comstock's List) -
Abandoned

Double Star No. 12 (Comstock's List) Σ 80
Phot. Ft. Obs. Bowie Res
0 52 0.0
1 4
0 12

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1906phae.proj..582W

Dec. 6, 1906.

Rec

Index Lock
14 5.3 ← Brighter dia
δ 14 10 213.5

Abandoned
Nothing can be done tonight as object glass is heavily dewed, dome reeking with moisture and water running of object glass

o Leti
o 1 ∝ Ursa Min Ft. Obs
o 1 ∝ " " Bowie Ob

Rec

No chance for anything tonight on account of moist conditions
δ 40

1906phae.proj..582W

Dec. 7, 1906. (Friday.).

Lamelop. Phot. 3. Hr. Obs. Lowe Rec.

7	26	+76.3
0	41	
6	45	
5	15	

Index R & A

160.1 Comp. Star dis

7	48	10	204.8 44.7^
			343.8 33.8^
			17.6 78.5^ +2.24^

164.4 +2.20^

7	52	48	198.3 33.9^
			337.8 47.6^
			25.4 81.5^ +2.15^

Index L & B

65.0

7	58	40	119.2 54.2^
			253.6 35.7^
			259.3 89.9^ +1.92^

8	6	56	65.5 ~~74.7~~		+1.98^
	~~5~~	~~15~~	118.3 ~~107.9~~	52.8^	
29	164	154 ^	255.5	32.9^	
7	56	38 ^	288.4	85.7^	+2.03^
5		-8 ^			
12	56	30 ^			Means +2.09^

7552.5392

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1906phae.proj..582W

Dec. 7. 1906.

~~Index 2 8~~

~~68.4 75.0~~

~~176.2 106.9~~

250.9

295.5

~~27 32~~
~~22 40~~

8 42 10

S.J. 2h 4m

Sh.A -5 25

Dec +75.8

P.A 166.2

Sprocket -1.5 A

" -0.5 B

" 0.06

Double Star No. 221 (Comstock's List) χ Aquarii.

23	11	-9.6
26	11	
3	0	

P.A. 310° Dist. 50, Mag. 4.0, 9.0

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1906phae.proj..582W

Dec. 7. 1906.

Index 2 K Q B.

8 57 0	354.5	Brighter dia	
	10.2	15.7"	
	172.4	18.3"	
	190.7	34.0"	4.13".
	352.0		4.02"
	11.5	19.5"	
	172.3	18.0"	
	190.3	37.5"	3.91"

Index R & A 1.

	263.5		
	279.5	16.0"	
	82.3	18.7"	
	101.0	34.7"	4.09"
	261.4		3.93"
	283.0	21.6"	
	82.7	18.3"	
	101.0	39.9"	3.77"

9	6	2	
17	63	2	"
8	61	31	"
5		-8	"
14	1	23	"

Means 3.98"

Seeing poor.

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