KG
11365
580

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57

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KG 11365.58

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1906phae.proj..581W

June 27, 1906.

For previous observations on this date, see R. 156.

Index Right II

		238.7		
9	47 2	310.1	71.4'	A
		67.5	55.0'	
		122.5	126.4'	+1.05'
		247.5		+1.01'
9	50 33	302.8	55.3'	
		55.6	74.9'	
		130.5	130.2'	+0.97'

Index Left

		149.3		
9	55 2	221.0	71.7'	B
		339.0	51.3'	
		30.3	123.0'	+1.13'
		158.0		+1.16'
9	58 40	210.4	52.4'	
	210 77	331.6	68.4'	
9	52 49	40.0	120.8'	+1.18'
5	+3			
14	52 52			

Mean +1.08'

7389.6200

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1906phae.proj..581w

June 27 1906

Index Left

	147.5		III
10 9 15	220.8	73.3'	
	340.0	69.0'	
	29.0	122.3'	+1.14'
	160.2	68.2'	+1.17'
10 12 48	210.4		
	330.4	69.8'	
	39.9	119.7'	+1.20'

Index Right

	59.8	70.0'	
10 17 18	129.8		
	249.0	71.0'	
	300.0	121.0'	+1.17'
	70.3	70.0'	+1.17'
	120.3		
	238.2	71.1'	
	309.3	121.1'	+1.17'

Mean +1.17'

10	20	20
	58	101'
10	14	55'
5		+3'
15	14	58'

7389.6354

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1906phae.proj..581W

June 27, 1906

Index Right

	59.7	69.3'	IV
10 28 36	129.0		
	251.0	49.0'	A
	300.0	118.3' +1.2 3'	
	70.5	49.3'	+1.26'
10 31 35	119.8		
	241.8	66.2'	
	308.6	116.1' +1.24'	

Index Left

	333.5	65.5'	
10 35 23	39.0		
	159.5	49.0'	
	208.5	114.5' +1.31'	
	340.8	49.2'	+1.24'
10 38 5	30.0		
	149.7	68.7'	
	218.4	117.9' +1.24'	

	132	99
10	33	25
5		+3
15	33	28

Mean +1.27'

7389.6482

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1906phae.proj.:581w

June 27, 1906

Index Left V

10 49 57	332.1	
	38.0	65.9
	160.5	67.5
	207.9	113.3 · +1.3
	342.5	66.3 · +1.3
10 53 4	28.8	
	150.9	66.2
	217.1	112.8 · +1.3

Index Right

	242.0	
10 57 30	306.9	64.9
	72.0	46.0
	118.0	110.9 · +1.4
	250.0	
	299.5	49.5 · +1.3
	61.0	66.6
	127.6	116.1 · +1.2

Mean +1.3

11	1	18
41	160	109
10	55	27
5		+3
15	55	30

7389.6636

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1906phae.proj..581W

June 27, 1906

Index Right VI

		240.9		
11	11	24	306.0	65.1'
			72.2	
			118.0	45.8'
				110.9' +1.40'
			252.3	
11	14	14	299.4	47.1' +1.39'
			62.8	
			127.4	64.6'
				111.7' +1.34'

Index Left

			154.5	
11	18	0	216.4	61.9'
			343.4	43.3'
			26.7	
				105.2' +1.53'
			162.0	+1.44'
11	21	18	208.8	46.8'
			333.9	62.1'
			36.0	
				108.9' +1.44'
	64	56		
11	16	14		
5		+3		
16	16	17		Mean +1.44'

6389.6780

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1906phae.proj..501w

June 27 1906

Index Left VII

151.6

11	28	0	216.84	64.8'		B
			343.0	43.5'		
			26.5	108.3'	+1.46'	
			161.5		+1.44'	
11	30	48	207.2	45.7'		
			333.1	63.8'		
			36.9	109.5'	+1.43'	

Index Right

62.5

11	33	36	126.8	64.3'		A
			251.5	46.8'		
			298.6	111.1'	+1.39'	
			73.0		+1.39'	
11	36	10	117.8	44.8'		
			240.0	66.3'		
			306.83	111.1'	+1.39'	

	127	94		
11	31	68		
5		+3		
16	32	11	S.S. 18h 15m	Mean +1.42'

H.A +0 4

7389.6890 Dec −16.0

P.A 339.6 B

Sprocket -1.5 A

" -0.5 B

" 0.0 b

It's watch for times tonight

Watch 3 sec. slow

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1906phae.proj..581W

June 28 1906 (Thursday)

5 0 0 All cloudy at present time, heavy banks in the west coming. Apparently no chance for any work

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1906phae.proj..501w

June 29, 1906 (Friday)

α Ophiuchi, Phot J. H. Obs Bowie Ref

17	9	+1.4
14	34	
2	35	
9	25	

7" Cap used

Index R & A

δ 23 0

233.4 ← var. dia		
317.0	83.6'	
67.6	53.5'	A
121.1	137.1'	-0.83'
244.1		-0.80'
303.7	59.6'	
53.87	80.0'	
133.7	139.6'	-0.78'

Index L & B

162.0		
211.3	49.3'	
330.6	66.9'	B
37.5	116.2'	-1.28'
151.0		-1.26'
219.4	68.4'	
339.0	50.0'	
29.0 ~~50.3~~	118.4'	-1.23'

δ 32 24

	55	24'
8	27	42'
5		+6'
13	27	48'

Mean -1.03'

7391.5610

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1906phae.proj..581W

June 29, 1906

S. J. 15^h 27^m
H. A. −1 47
Dec. +0.9
C. A. 214.0 Ver 8
Sprocket −8.5 8
" −7.5 6

α Sagittae Phot J K. Obs Bowie Rec

19	19	+19.5
15	49	
3	30	
8	30	

9."5 Scale used

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1906phae.proj...581w

June 29, 1906

Index Right

9	39 18	340.4	~~+62.3~~	var. dis
9	~~20 55~~	28.3	~~208.8~~	47.9'
		167.4	~~346.6~~	34.3'
		201.7	~~20.8~~	82.2' −2.13' A
		347.1	~~+65.0~~	−2.08'
		21.9	~~204.4~~	34.8'
		185.4	~~339.7~~	50.9'
		209.3	~~25.4~~	85.7'' −2.03'

Index Left

		68.8	
		119.3	50.5' B
		255.3	40.3'
		295.6	90.8' −1.89'
		75.2	−1.86'
9	28 26	112.6	37.4'
	67 44'	247.0	56.3'
9	33 52'	303.3	93.7' −1.82'
5	+6'		
14	33 58	S.T. 16h 35m	Mean −1.97'
		S.A. −2 40	

7391.6069

Dec. +18.8
P.A. 314.0 ber B
Sprocket −3.5 B
−2.5 b

I use first ~~two~~ ~~sets~~ emergent pencils gave trouble These ~~two~~ ~~sets~~ are ~~taken~~ Region thoroughly identified ~~with~~ phot. off.

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1906phae.proj..581W

June 29, 1906

L Librae Phot. 3 H. Oba Bowie Rec

15 4
16 44
+1 40

-19.2

7" Cap used

Index Red

	243.6 ← var. dis	
10 15 26	305.3	61.7'
	71.4	47.4'
	118.8	109.1' -1.44'
	252.3	-1.48'
	298.0	45.7'
	64.1	59.9'
	124.0	105.6' -1.52'

Index L+B

	159.0	
	213.0	54.0'
	346.0	41.1'
	27.1	95.1' -1.78'
	163.8	-1.72'
10 21 50	205.7	44.9'
36 76	336.7	55.3'
10 18 38	32.0	100.2' -1.65'
5 +6		
15 18 44		Mean -1.60'

7391.6380

1906phae.proj...581w

June 29, 1906

S.J. 17 15
R.A +2 5
Dec. 1—19.0
P. A 65.0 Ser ⊗
Sprocket -2.5 ⊗
" -1.5 b

Fourth Type Star +38° 2389 Phot J. H. Obs Bowie Rec

12	49	+39.1
17	29	
4	40	

Measurements on fol. page.

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1906phae.proj..581W

June 29, 1906

Index L & A

	56.1 ← 4th type dis	
11 1 42	134.8	78.7'
	244.0	64.2'
	308.2	142.9' −0.72'
	64.0	−0.73'
	125.6	61.6'
	233.3	80.3'
	313.6	141.9 −0.74'

Index R & B

	329.0	
	41.2	72.2'
	155.5	59.2'
	214.7	131.4' −0.95'
	335.7	−0.90'
11 9 58	33.6	57.9'
10 100	145.1	78.9'
11 5 50	224.0	136.8' −0.84'
5 +6		
16 5 56		Mean −0.82'

R. A. 18 4
Dec. +5 8
Dec. +38.4
R. A. 203.8 for B
Sprocket −3.5 B
" −2.5 b

It's a ~~mistake~~ need for time
~~Mistake~~ 6 sec slow

7391.6708

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1906phae.proj..581W

July 2, 1906 (Monday)

ν Ophiuchi Phot. J Fr. Obs. Bowie Rec.

17	9	+1.4
14	46	
2	23	
9	37	

7" Graf

Abandoned, clouds coming into this region

Fourth Type Star +34° 4500 (6.2) Phot J Fr. Obs Bowie Rec

21	36	+34.9
15	18	
6	18	
5	42	

9.5 Graf

8 35 o clouds

Measurements on page 17

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1906phae.proj..581W

July 2, 1906

Index

250.3 ←

302.0 51.7

74.1 40.5

114.6 92.2 1.86

254.0 1.75

293.3 39.3

67.0 61.5

125.5 100.8 1.64

Index

158.4

208.9 50.5

347.0 35.5

22.5 86.0 2.02

167.9

Clouds

Reject above, continually ~~troubled~~ by clouds and stopped by clouds before observations could be finished.

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1906phae..proj...581W

July 2, 1906

Clear. Same star again.

Index L & A 9.5 bap

	159.7 ← 4th type dis	
9 59 36	211.4	51.7'
	347.6	32.2'
	19.8	83.9' -2.08' B
	167.7	-2.06'
	202.9	35.2'
	340.1	49.9'
	30.0	85.1' -2.05

Index A & B

	69.8	
	121.5	51.7'
	256.8	36.2' A
	293.0	87.9' -1.97'
	76.1	-1.95'
9 10 20	112.2	36.1'
69 56	249.2	53.4'
9 34 58	302.6	89.5' -1.93'
5 +4		
14 35 2		

S.T. 16h 19m Mean -2.00'

H.A -5 19

Dec. +34.5 Region identified.

7394.6076 R.A 251.3 Ver B Clouds now all about and growing worse.

Sprocket +0.5 B

" +1.5 L Use watch only for times

Watch 4 sec. slow.

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1906phae.proj..581W

July 5, 1906 (Thursday)

U Ophiuchi Phot. 3 St. Obs. Bowie Rec. 7" brap used

17 9 +1.4
14 54
2 15
9 45

Index R & A

8 13 0

235.6 ← var. dis
314.8 79.2'
67.0 56.5'
123.5 135.7' -0.56'

245.5 -0.84
305.9 60.4'
55.8 77.4'
133.2 137.8' -0.32'

Index L & B

148.2
220.3 72.1'
339.1 50.1'
29 122.2' -1.14'

158.8 -1.14'
8 23 50 210.8 52.0'
36 50 328.5 70.5'
8 18 25 39.0 122.5' -1.14'
5 -30
13 17 55

Mean -0.99

7397.5541

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1906phae.proj..581W

July 5, 1906

S. J. 15^h 46^m
H. A. -1 25
Dec. +1.0
P. A. 213.5 Vers B
Sprocket -8.5 B
" -7.5 b

Fourth Type Star 68° 617 Phot. J H. Obs. Bowie Rec

10	35	+68.2
16	15	
5	4.0	

Measurements on fol. page

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1906phae.proj..581W

July 5, 1906

Index Left

9 32 55	348.5	167.2	4th type dia.	
16 7	22.0	202.1	33.5'	
	169.9	302.0	28.1'	B
	198.0	171.7	61.6'	-2.80'
	171.3			-2.81'
	198.8		27.5'	
	348.6		33.6'	
	22.2		61.1'	-2.52'

Index Right

	74.5		
	113.5	39.0'	A
	261.0	26.6'	
	287.6	65.6'	-2.66'
	81.7		-2.64'
	108.8	27.1'	
	254.4	39.5'	
	293.9	66.6'	-2.62'

9 24 25			
56 80			
9 28 40			
5 +30			
14 28 10	S.J. 16	.46	Mean -2.72'
	H.A +6	5	Something wrong in first original sett above probably third reading read erroneously, this sett retaken
7397.6029	Dec +65.4		
	P.A 59.8	Vern B	
	Sprocket -2.5	B	
	" -1.5	b	

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1906phae.proj..581W

July 5, 1906

Fourth Type Star +59 2510 Phot J H. Obs Bowie Rec

24	1	+58.3	9.5 cap
17	1		
75	0		
	0		

Index R & B

	226.0 ← 4th type dis.	
10 11 30	324.0	98.0' A
	57.5	75.3'
	132.5	173.3' -0.13'
	236.9	-0.07'
	314.1	77.2'
	42.5	102.2'
	145.0	179.4' -0.01'

Index L & A

	137.0	
	233.0	96.0'
	328.5	73.3' B
	41.5	169.3' -0.20'
	148.3	-0.20'
10 18 50	223.5	75.2'
	318.6	93.5'
	52.1	168.7' -0.21'
29 80		
10 14 70		
5 -30		
15 14 40		Mean -0.14'

7397.6352

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1906phae.proj..581W

July 5, 1906

S. J. 17 37
H. A. −6 20
Dec. +59.2
P. A. 79.3 for B
Sprocket −0.5 B
" +0.5 b

Fourth Type Star +42° 4827 Phot 3 h. 0 b. Bonn Rec

23	53	+44.4
17	48	
6	5	
5	55	

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1906phae..proj..581W

July 5, 1906

Index R & A

61.6 ← 4th type dia

10 53 12	126.9	65.3'	A
	229.0	92.4'	
	321.4	157.7'	-0.43'
	49.6		-0.44'
	137.2	87.6'	
	242.4	68.6'	
	311.0	156.2'	-0.45'

~~Index~~ L & B

	336.3		
	32.0	55.7'	B
	145.0	81.8'	
	226.8	137.5'	-0.82'
	324.4		-0.81'
11 2 45	44.3	79.9'	
	156.3	58.7'	
	215.0	138.6'	-0.80'

21 55 60			
10 57 60			
5 -30			
15 57 30	S. J.	18h	18m
	L. A.	-5	42
	Dec.	+42.6	
7397.6650	P. A.	171.5 by B	
	Sprocket	-1.5 B	
	"	-0.5 b	

Mean -0.62'

~~His watch used for times~~
~~Watch 30 sec fast~~

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1906phae.proj..581W

July 6, 1906 (Friday)

α Ophiuchi Photo. J. H. Obs. Bowie Rec

17 9 +1.4 7" cap used

15 4

2 5

9 55 Index

Abandoned ~~too~~ cloudy in ~~this~~ region

Fourth Type Star +70° 644 Photo. J. H. Obs. Bowie Rec.

11 31 +70.1

16 6

4 35

Measurements on fol. page

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1906phae..proj..581W

July 6, 1906

Index R & A

	227.9 ←	Comp. Star dis.
9 10 25	321.0	93.1'
	58.2	70.1'
	128.3	163.2' +0.32' A
	239.1	+0.34'
	308.2	69.1'
	48.1	91.7'
	139.8	160.8' +0.37'

Index L & B

	141.9	
	225.7	83.8'
	332.3	61.6'
	33.9	145.4' +0.67' B
	153.6	+0.67'
9 18 55	215.8	62.2'
28 83	322.8	83.0'
9 14 42	45.8 ~~46.6~~	145.2' +0.67'
5 -26		
14 14 16		

S.T. 16h 42m Mean +0.50'

H.A. +5 42 Somewhat troubled by clouds but obs. considered good.

Dec. +70.2

7398.5933 P.A. 156.1 Ver B

Sprocket -4.5 B

" -3.5 b

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1906phae.proj..581W

July 6, 1906

Fourth Type Star +46° 1817 Phot. J. H. Obs. Bowie Rec.

12 38 +46.2

16 53

4 15

Index Left

B

173.7 ~~4th type~~ dis

195.6 21.9'

358.0 14.5'

12.5 36.4' -3.98'

9 50 38

177.3 -3.97'

192.3 15.0'

353.9 21.7'

15.6 36.7' -3.96'

Index Right

A

83.1

107.3 24.2'

266.8 16.7'

283.5 40.9' -3.72'

86.2 -3.68'

103.3 17.1'

262.4 25.2'

287.6 42.3' -3.64'

Mean -3.82'

9 57 58

107 96'

9 53 78'

5 -26'

14 53 52'

7398.6207

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1906phae.proj..581W

July 6, 1906

S.J. 17h 19m
H.A. +4 35
Dec. +46.3
P.A 258.3 Ver. S
Sprocket -2.5 S
" -1.5 b

Fourth Type Star +53° 66 Phot. J. K. Ott Sonne Rec

24	28	+53.1
17	33	
6	55	
5	5	

Abandoned, too cloudy

H's watch used for times tonight
Hatch, 26 sec. fast

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1906phae.proj..581W

July 9, 1906 (Monday)

α Ophiuchi Phot. J. H. Obs Bowie Rec

17	9	+1.4
15	9	
2	0	
10	0	

8 o o Sky pretty cloudy, delayed for present

Abandoned.

R X Herculis Phot ~~J~~ H. Obs. Bowie Rec

18	16	+12.0
15	56	
2	20	
9	40	

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1906phae.proj...381w

July 9 1906

Index Right

	61.4	var. dist.	I
8 49 40	127.3	65.9'	
	249.0	50.7'	
	299.7	116.6' -1.27'	A
	69.0		-1.28'
8 52 38	120.2	51.2'	
	242.6	64.3'	
	306.9	115.5' -1.29'	

Index Left

	334.0		
8 56 41	34.0	60.0'	
	161.2	45.2'	
	206.4	105.2' -1.53'	B
	343.0		-1.56'
8 59 34	26.6	43.6'	
	154.0	59.1'	
	213.1	102.7' -1.59'	

	216	153'
8	54	38'
5		-37'
13	54	1'

Mean -1.42'

7401.5792

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1906phae.proj..581W

July 9, 1906

Index Left

II

	335.5		
9 4 17	32.9	57.4'	
	163.0	42.1'	
	205.1	99.5'	-1.67'
	343.0		-1.62'
9 6 36	27.0	44.0'	
	153.3	59.9'	
	213.02	103.9'	-1.56'

Index Right

	242.0		
9 10 26	307.2	65.2'	
	72.6	44.5'	
	117.1	109.7'	-1.42'
	252.4		-1.42'
9 13 11	298.2	45.8'	
	63.2	64.1'	
	127.3	109.9'	-1.42'

Mean -1.52'

	33	90
9	8	38
5		-37
14	8	1

7401.5889

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1906phae.proj...594w

July 9, 1906

~~Index Right~~ III

		243.0	
9	22	305.58	62.8'
		73.0	44.3'
		117.3	107.1' -1.49'
		252.4	-1.48'
9	25	297.5	45.1'
		63.9	62.1'
		126.0	107.2' -1.48'

~~Index Left~~

		153.5	
9	30	213.5	60.0'
		344.4	40.7'
		25.1	100.7' -1.64'
		163.4	-1.62'
9	32	204.6	41.2'
		334.6	60.8'
		35.4	102.0' -1.61'

	109	83'
9	27	36'
5		-37'
14	26	59'

Mean -1.55'

7401.6021

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1906phae.proj..581W

July 9, 1906

Index Left

		155.4		
9	39.43	213.5	58.1'	
		345.1	40.2'	
		25.3	98.3'	-1.70'
		164.2		-1.71'
9	42 40	205.3	41.1'	
		336.3	56.3'	
		32.6	97.4'	-1.72'

Index Right

		66.4		
9	46.15	124.2	57.8'	
		253.2	41.6'	
		294.8	99.4'	-1.67'
		73.9		-1.66'
9	49 40	115.5 ~~+44.9~~	41.6'	
		245.4	58.6'	
		304.60	100.2'	-1.65'

	176	141
9	44	35
5		-37
14	43	58

Mean -1.68'

7401.6139

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1906phae.proj..581w

July 9, 1906

V

Index Right
66.2
clouds in this region
" thicker, stars gone
247.6
10 17 19 301.9
~~Stars gone~~

~~Stopped~~ by clouds

S.J. 17h 49
H.A.
Dec +12.0
P.A. 330.0 Dec
Sprocket -4.5 B
" -3.5 b

Region thoroughly identified Dec. Sp. & P.A practically all right, H.A. not read as clouds came and ~~stars~~ could not be centered on field

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

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1906phae.proj..581W

July 11, 1906 (Wednesday)

α Ophiuchi Phot. J H. Obs. Lowell Rec

17	9	+1.4
15	19	
1	50	
10	10	

7" Scope used

I

Index Ra A

48.4 ← var. dis

6 22 46	140.9	92.5'	A
	238.9	72.6	
	311.5	165.1'	-0.28'

58.2 -0.26'

6 25 37	128.5	70.3'	
	226.8	97.6'	
	324.4	167.9'	-0.23'

Index Ra B

320.6

6 30 24	47.9	87.3'	B
	154.7	63.6'	
	218.3	150.9'	-0.56'

333.5 -0.58'

6 33 23	36.9	63.4'	
	142.3	85.9'	
	228.2	149.3'	-0.59'

	110	130
8	27	62
5		-41
13	27	21

Mean -0.42'

7403.5607

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1906phae.proj..501w

July 11, 1906

Index L & B

		321.9		II
8	38 57	46.5	84.6'	
		155.0	60.8'	
		215.8	145.4' -0.67'	B
		332.6		-0.64'
8	42 22	35.8	63.2'	
		143.0	85.2'	
		228.2	148.4' -0.61'	

Index R & A

		225.9		
8	46 23	321.3	95.4'	
		61.2	67.0'	A
		128.2	162.4' -0.33'	
		241.6		-0.34'
8	49 10	309.0	67.4'	
		47.2	94.2'	
		141.84	161.6' -0.35'	

	175	112
8	43	73
5		-41
13	43	32

Mean -0.49'

7403.5718

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1906phae.proj..581W

July 11 1906

Index Rod III

			229.0		
8	56	40	320.6	91.6'	A 9
			60.3	69.5'	
			129.8	161.1'	-0.36'
			242.5		-0.38'
8	59	40	309.8	67.3'	9
			49.1	91.5'	
			140.6	158.8'	-0.40'

Index Lib

			140.7		
9	4	20	227.9	87.2'	9
			332.0	63.6'	B
			35.6	150.8'	-0.56'
			155.0		-0.57'
9	7	49	216.9	61.9'	9
			320.0	58.0'	
			48.0	149.9'	-0.58'

34	126	149	9
8	61	67	5
5		-41	
14	1	26	14

Mean -0.48'

7403.5843 7

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1906phae.proj..504w

July 11, 1906

~~Index~~ 2 & 8 IV

		141.2		
9	18	43	227.2	86.0'
			335.0	57.9'
			32.9	143.9' -0.70' 8
			156.2	-0.70'
9	21	55	214.0	57.8'
			321.8	85.4'
			47.2	143.2' -0.71'

~~Index~~ 2 & A

		50.0		
9	26	13	139.3	89.3'
			241.9	65.7'
			307.6	155.0' -0.48' A
			62.0	-0.48'
9	29	8	~~126.9~~ 7.0	65.0'
			229.0	90.4'
			319.4	155.4' -0.47'

	94	119	
9	23	60	
5		-41	through
14	23	19	

Last setting in above group taken ~~through~~ rather dense fog, ~~but thought to be good~~ Mean -0.59'

As fog became dense and stars dis, somewhat suddenly, the fol. setting readings (on next page) are not rigorously exact necessarily, but pretty close; region identified.

7403.5995

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1906phae.proj..581W

July 11, 1906

S. T. 17h 5m
H. A. −0 9
Dec. +0.9
P. A. 35.5
Sprocket −8.5 B
" −7.5 b

Use watch used for times tonight
Watch 41 sec fast

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1906phae.proj..581w

July 12, 1906 (Thursday)

ζ Ophiuchi Phot. 3 St. Obs. Bowie Rec.

17 9 +1.4
15 24
1 45
10 15

7" brass used

Index R & A

54.1 ← var. dis.

δ 18 50

134.5 80.4'
246.4 56.7'
303.1 137.1' -0.83'

66.2 -0.80'

δ 21 48

122.3 56.1'
232.2 84.1'
316.3 140.2' -0.77'

Index L & B

325.7

δ 26 0

38.4 ~~39.0~~ 72.7'
160.0 50.2'
210.2 122.9' -1.13'

339.5 -1.16'

δ 25 45

29.5 50.0'
~~145.5~~ 149.8 70.4'
220.82 120.4' -1.18'

9 3 143
δ 2 3 51
5 -41
13 23 10

Mean -0.98'

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1906phae.proj..581W

July 12, 1906

S. U. 16^h 17^m
H. A. − 0 56
Dec. +1.0
P. A. 213.0 Ver. B
Sprocket −8.5 B
" −7.5 b

H Delphini Phot. J H. Obs Bruce Rec

20	31	+17.5
16	41	
3	50	
8	10	

Abandoned; too much fog

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1906phae..proj..581W

July 12, 1906

Fourth Type Star +59 2810 Phot. Ht. Obs. Bowie Sec.

24	1	+58.3
17	1	
7	0	
5	0	

Thick fog everywhere and growing thicker and more abundant, evidently no chance for anything further.

H's watch used for times tonight
Watch 41 sec. fast

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1906phae.proj..581W

July 13, 1906 (Friday)

ν Ophiuchi Phot 3 ft. Obs Bowie Rec

24	50	+81.1	9.5 Cap used
15	20		
9	30		
2	30		

Abandoned.

ν¹ Ophiuchi Phot 3 ft. Obs Bowie Rec

17	9	+1.4	
15	24		7" Cap used
1	45		
10	15		
	20		
10	35		

Measurements on fol. page

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1906phae.proj..581w

July 13, 1906.

Index R & A

	234.8	var. dis
8 12 42	313.83	78.5'
	65.8	56.1'
	121.9	134.6' -0.88'

A

	245.6	-0.86'
	304.8	59.2'
	55.9	76.9'
	132.8	136.1' -0.85'

Index L & B

	145.6	
	221.3	72.7'
	339.6	50.4'
	30.0	123.1' -1.13'

B

	160.4	-1.16'
8 22 8	210.4	50.0'
	328.5	70.6'
34 50'	39.1	120.6 -1.15'
8 17 25'		
5 -41'		
13 16 44	S. J. 16h	10m
	L. A -1	5
7405.5533	Dec +1.0	
	P. A 213.7	
	Sprocket -8.5 B	
	" -7.5 b	

Mean -1.01'

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1906phae.proj..581W

July 13, 1906

γ Lyrae Phot. 3 ft. Obs. Bowie Rec.

	20	40	+33.4		
	16	40			I
	4	00			
	8	00			

Index Red

75.2 var. dis.

9	13	8	112.2	37.0'	B
			245.5		
			302.4	+6.9'	
				93.9'	-1.21'
			65.7	+5.6'	-1.20'
9	16	28	121.3		
			254.8	39.4'	
			294.2	95.0'	-1.72'

Index R+B

			347.1	36.6'	A
9	20	8	23.7		
			159.3	+1.8'	
			211.1	68.4'	-1.96'
			338.7	+1.2'	-2.00'
9	24	8	29.9		
			167.4	34.6'	
			202.0	65.8'	-2.03'

	73	52	'
9	18	28	'
5		-41	'
14	17	47	'

Mean -1.90'

7405.5957

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1906phae..proj..581W

July 13, 1906

Index R & S II

347.3
22.3 35.0'
157.5 55.0'
212.8 90.0' -1.91' A

337.4
31.7 55.3' -1.92'
167.5 35.7'
203.0 89.4' -1.92'

Index L & A

256.7
295.7 39.0'
65.2
121.8 96.6' -1.77' B

247.7
303.9 56.2' -1.80'
75.0
112.4 37.4' 93.6' -1.82'

Mean -1.86'

9 31 11

9 33 43

9 37 48

9 41 18

142 120'
9 35 60'
5 -41'
14 35.19'

7405.6078

1906phae.proj..581W

July 13, 1906

Index L & A III

		256.3		
			32.3'	
9	45	37	294.6	
			64.0	ν 2.ν'
			122.5	96.2' -1.7'
			246.0	ν 7.8' -1.7ν'
9	50	1	303.5	
			74.5	32.2'
			112.97	96.0' -1.7'

Index R & B

		165.4		
			38.6'	
9	54	28	204.0	
			338.0	ν 4.0'
			32.0	92.6' -1.8'
			159.0	ν 1.7' -1.9'
9.	58	14	210.7	
			347.0	36.6'
			23.56	88.3' -1.9'

	207	80	
9	51	65	
5		-41	
14	51	24	

Mean -1.82'

7405.6190

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1906phae..proj...581W

July 13, 1906

IV

Index R & B

	165.0		
10 5 25	203.5	37.5'	A
	336.9	55.7'	
	32.4	91.2'	-1.44'
	155.9	56.1'	-1.24'
10 8 32	212.0		
	346.0	34.4'	
	24.8	94.9'	-1.79'

Index L & A

	74.6	39.9'	
10 12 12	114.5		
	246.5	57.7'	
	304.2	97.6'	-1.72'
	63.9	57.9'	-1.70'
10 14 50	121.8		
	254.8	41.3'	
	296.1	99.2'	-1.62'

Mean -1.77'

	39	119'
10	9	75'
5		-41'
15	9	34'

7405.6316

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1906phae.proj..581W

July 13, 1906

Index L & A

	73.7	34.5'	
10 20 0	112.2		
	246.1	52.7'	B
	304.8	97.2'	-1.73'
	63.5	59.4'	
10 23 30	123.3		-1.64
	254.7	61.5'	
	296.2	101.3'	-1.62'

Index R & B

	345.6	60.7'	
10 27 48	26.3		
	156.4	57.3'	
	213.7	94.0'	-1.71' A
	336.2	52.4'	-1.71'
10 31 2	35.30		
	164.9	39.2'	
	204.1	92.0'	-1.71'

101 80'

10 25 35'

5 -41'

15 24 54'

Mean -1.70'

7405.6423

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1906phae.proj..581W

July 13, 1906

Index R & B

346.2

10 38 48. 23.9 4.0 37.2'

155.2 5 8.6'

213.8 96.4' -1.75'

334.3 60.0'

10 43 3 34.3 -1.72

165.5 3 8.5'

204.0 94.5' -1.69'

Index L & A

255.0 40.0'

10 48 16 295.0

63.4 60.4'

123.8 100.4' -1.65'

245.8 5 8.6' -1.69'

10 51 28 304.4

74.9 3 8.5'

114 3.4 97.1' -1.73'

180 95'

10 45 24'

5 -41'

15 44 43'

Mean -1.70'

7405.6561

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1906phae.proj..581W

July 13, 1906

Index L & A VII

			253.0			
11	6	32	297.4	K K.4		
			64.5			
			120.2	V V.7		
				100.1	−1.65	
			246.0			
11	8	45	303.8	V7.2	−1.66	
			73.9	K2.0		
			115.9	99.2	−1.66	

Index Q & B

			165.0	K0.3		
11	12	0	205.3			
			335.8	V9.2		
			35.0	99.5	−1.67	
			155.8	V7.7		
11	15	0	213.5		−1.67	
			344.8	K1.4		
			26.86	99.5	−1.67	

	41	80	
11	10	35	
5		−41	
16	9	54	

Mean −1.66

7405.6735

1906phae..proj...581W

July 13, 1906

Index R α β VIII

	164.7		
11 25 50	205.8 5	40.2'	
	336.4		A
	35.2	ν 2.2'	
		99.6'	-1.67'
	157.1		
		ν 3.9'	
11 29 0	211.0		-1.72'
	344.3	41.5'	
	25.8	95.4'	-1.77'

Index L α A

	72.3	40.9'	
11 33 0	113.2		B
	245.0	ν 2.7'	
	303.7	99.6'	-1.67'
	65.3		
		ν 7.6'	
11 35 14	122.9		-1.68'
	254.8	41.3'	
122 64'	296.1	94.9'	-1.68'
11 30 46'			
5 -41'			
16 30 5	S.T. 19h 1m 8s		Mean -1.70'
	Ha. -1 30		
	Dec. +33.7		Watch used for times
7405.6876	P.A. 45.5 Var β		Watch 41 sec. fast
	Sprocket -0.5 A		
	" +0.5 B		
	" +1.0 C		

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1906phae.proj..581W

July 14, 1906 (Saturday)

α Ophiuchi Phot 3 Ft. Obs Bowie Rec.
17 9 +1.4 7" bath used
15 29
1 40
10 20

Index R & A

8 4 48

235.3 ← var. dis			
312.6	77.3'		A
65.2	59.8'		
125.0	137.1'	-0.83'	
245.0		-0.84'	
303.8	58.8'		
55.7	76.9'		
132.6	135.7'	-0.86'	

Index 2 & B

150.9			
218.8	67.9'		B
337.6	51.9'		
29.5	119.8'	-1.20'	
160.0		-1.18'	
210.3	50.3'		
328.0	71.1"		
39.1	121.4'	-1.16'	

Mean -1.01'

8 16 12
20 60
8 10 30
5 +43'
13 11 13'

7406.5494

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1906phae.proj...581W

July 14, 1906

S.T. 16^h 5^m
H.A. -1 7
Dec. +1.0
P.A. 213.5 Ver. S
Sprocket -8.5 S
" -7.5 b

γ Cygni Phot. J H. Obs. Bowie Rec.
+33.4

20	4.0
16	10
4	30
7	30

For measurements see fol. page

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1906phae.proj..581W

July 14, 1906

Index 2 & A

	249.0	Var. dis	
8 43 25	303.0	54.0'	B
	76.4	34.4'	
	110.8	88.4'	-1.96'
	257.0		-1.94'
	293.1	36.1'	
	66.7	53.3'	
	120.0	89.4'	-1.93'

Index R & B

	159.4		
	208.0	48.6'	A
	348.2	32.5'	
	20.7	81.1'	-2.16'
	167.5		-2.12'
	201.3	33.8'	
	339.5	50.1'	
	29.6	83.9'	-2.05'

8	53	35	
	96	60	
8	48	30	
5		+43	
13	49	13	

S.J. 16h 44
H.A. -4 5
Dec. +33.8
P.A. 225.8 Ser. B
Sprocket -0.5 A
" +0.5 B
" +1.0 b

Mean -2.03'

7406.5758

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1906phae.proj...594w

July 14, 1906

U Cygni Phot. T A. Obs. Cowie Rec.

21 7 +29.6
17 32
3 35
8 25

Comp. Star = +29° 4241 (9.3)

Index R & A

64.9 ← Comp. Star dis

10 26 2

121.34	56.5'	A
235.8	77.8'	
313.6	134.3' +0.89'	V

56.8 +0.92'

133.1	76.3'	
246.2	55.4'	
301.6	131.7' +0.94'	

Index L & S

339.0		
31.3	52.3'	
148.5	68.0'	S
216.5	120.3' +1.19	

327.4 +1.14'

10 34 30

40.X3	72.9'	
158.2	51.5'	
209.7	124.4' +1.10'	

60 32
10 30 16
5 +43
15 30 59

Mean +1.03'

7406.6465

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1906phae.proj..581W

July 14, 1906

S.T. 18^h 25^m
H.A. -2 28
Dec. +29.2
P.A. 181.4 Ser. B
Sprocket -1.5 A
" -0.5 B
" +0.4 b

H's watch used for times tonight
H watch 43 sec. fast

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1906phae.proj...594w

July 16, 1906 (Monday)

α Ophiuchi Phot 3 H. Obs Bowie Rec.

17 9 +1.4 7" Crap used

15 39

1 30

10 30

Index Rad I

52.9 ← var. dis

8 10 18 136.2 83.3'

239.2 68.8'

308.0 152.1' -0.53'

62.3 -0.49'

8 13 36 127.0 64.7'

228.3 91.5'

319.8 156.2' -0.45'

Index Lad B

325.1

8 17 2 45.0 79.9'

157.5 56.3'

213.8 136.2' -0.85'

335.0 -0.84'

8 19 20 32.7 57.7'

59 76 146.5 79.0'

8 14 64 225.5 136.7' -0.84'

5 -49

13 14 15

Mean -0.66'

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1906phae.proj..581W

July 16, 1906

Index L & B II

	322.5			
8 25 58	44.9	82.4'		B
	156.4	58.3'		
	214.7	140.7'	-0.76'	
	335.2		-0.76'	
8 28 13	351.3	60.1'		
	144.2	81.1'		
	225.3	141.2'	-0.75'	

Index R & A

	229.5			
8 32 32	320.8	91.3'		A
	61.6	66.2'		
	127.8	157.5'	-0.43'	
	240.6	Evidently should be 240.6		
8 35 0	309.7	69.1'	-0.42	
	50.6	88.8'		
	138.6 9.4	157.9	-0.42'	

Mean -0.59'

First reading in last set evidently read 210.6 for 240.6. 240.6 assumed. This latter is evidently the correct reading from comparison with other readings in last 2 sets.

	120	103
4	30	26
5		-49
13	29	37

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1906phae.proj..584w

July 16, 1906.

Index R & A

III

227.2

8	46	6	322.0 1.6	94.4'	A
			61.0	67.8'	
			128.8	162.2'	-0.34'
			235.0		-0.36'
8	49	27	309.8	71.8'	
			50.8	88.3'	
			139.1	160.1'	-0.38'

Index L & B

141.4

8	53	32	231.2	89.8'	B
			333.0	63.2'	
			36.2	153.0'	-0.52'
			152.4		-0.56'
6	56	28	218.9	66.5'	
			320.3	82.7'	
			43.0	149.2'	-0.59'

	204	93	
8	51	23	
5		-49	
13	50	34	

Mean -0.46'

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1906phae.proj..581W

July 16, 1906

Index L & S

142.0

9	6	0.	229.9	87.9'
			332.1	64.1'
			36.2	152.0' -0.54'

153.6 -0.51"

9	7	31	219.2	65.6'
			317.8	89.2'
			47.0	154.8' -0.48'

Index R & A

49.6

9	13	10	138.6	89.0'
			238.5	71.8'
			310.3	160.8' -0.37'

60.5 -0.34'

9.	16	10	128.9	68.1'
	44	51	225.5	96.3'
9	11	13	321.8	164.4' -0.30'
5		-49		
14	10	24		

Mean -0.42

IV

B

A

9

9

9

9

5

14

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1906phae.proj...504w

July 16, 1906

Index R & A

		48.5		V
9	25 46	142.4	93.9'	
		238.7	72.1'	A
		310.5	166.0'	-0.27'
		59.0		-0.28'
	28 27	129.9	70.9'	
		228.4	93.9'	
		322.3	164.8'	-0.29'

Index L & B

		320.6		
9	33 32	46.5	85.9'	
		152.2	63.8'	B
		216.0	149.7'	-0.58'
		331.1		-0.58'
9	37 20	37.2	66.1'	
	123 125'	144.0	83.8'	
9	30 76'	227.8	149.9'	-0.58'
5	-49'			
14	30 27'		Mean	-0.43'

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1906phae.proj..581W

July 16 1906

Index L & B VII

321.1

9	45	12	46.8	85.7'
			153.3	62.7'
			216.0	148.4' -0.61'
			333.6	-0.62'
9	51	11	37.0	63.4'
			142.5	84.5'
			227.0	147.9' -0.62'

Index R & A

229.0

9	55	11	318.5	89.5'
			60.8	65.2'
			126.0	154.7' -0.48'
			242.1	-0.49'
9	58	8	306.9	64.8'
			50.1	89.0'
			139.1	153.8' -0.50'

	212	42
9	53	10
5		-49
14	52	21

Mean -0.56'

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1906phae.proj..581w

July 16, 1906

Index Rod VII

230.0

10	6	40	318.8	88.8' A
			64.4	64.0'
			128.4	152.8' -0.52'
			243.4	-0.52'
10	9	11	306.6	63.2'
			50.9	88.9'
			139.8	152.1' -0.53'

Index Rod

140.8

10	13	23	227.8	87.0'
			332.9	62.3'
			35.2	149.3' -0.59' B
			154.4	
10	16	38	215.5	61.1' -0.62'
			321.5	85.0'
			46.5	146.1' -0.65'

	44	112
10	11	28
5		-49
15	10	39

Mean -0.57'

Reversed ~~the~~ tel

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1906phae.proj..581W

July 16, 1906

Index L & R

			145.0	
10	31	10	226.4	78.4
			332.7	61.7
			34.4	140.1
			157.0	
10	37	12	214.1	57.1
			321.9	82.1
			44.0	139.2

Index R & A

		58.7	
10	42	50	136.2
			242.0
			306.3

~~Constantly~~ troubled in this group by varying cloud which also varied in density images ~~constantly~~ varying in brightness relatively and images also die before group could be finished Reject above partial group

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1906phae.proj..581W

July 16, 1906

S. J 18 52
H. A +1 38
Dec +1.8
P. A 214.6
Sprocket -8.5 S
" -7.5 L

H's watch used for times tonight
Hartich 49 sec. fast

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1906phae.proj..581W

July 17, 1906 (Tuesday)

α Cygni Phot. J. H. Obs. Bowie Rec.

21	7	+29.6
17	47	
3	20	
8	40	Index

Clouds now thick everywhere, impossible to do any work tonight

8

8

8
5
13
74

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1906phae.proj..581W

July 18, 1906 (Wednesday)

α Ophiuchi Phot. 5 H. Obs. Lowell Rec.

.17 9 +1.4 7" trap used

15 59

1 10

10 50

Index R & D

56.0 ← var. dis

A

8 18 40

13 ~~2.1~~ 1.8 75.8'

246.1 58.3'

304.4 134.1' -0.89'

66.7 -0.84'

122.0 55.3'

233.1 83.7'

316.8 139.0' -0.79'

Index L & B

327.0

B

39.5 72.5'

160.0 50.6'

210.6 123.1' -1.13

337.2 -1.14'

8 28 52 29.3 52.1'

46 92 150.6 70.5'

8 23 46 221.81 122.6' -1.14'

5 -51

13 22 55'

Mean -0.99'

7410.5575

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1906phae.proj..581W

July 18, 1906

S. J. 16 37
H. A. −0 37
Dec. +1.0
P. A. 214.5 Ser. B
Sprocket −8.5 B.
" −7.5 b

R X Hercules Phot. J H. Obs. Bowie Rec

18	16	+12.0
16	46	
1	30	
10	30	

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1906phae..proj..581W

July 18, 1906

Index Right

246.4 var. dis.

8 53 58

299.6	53.2	A
74.4	39.6	
114.0	92.8	-1.84
254.3		-1.83
292.5	38.5	
67.8	54.9	
122.7	93.4	-1.82

Index Left

157.8		
210.9	53.1	B
345.2	38.2	
23.4	91.3	-1.88
165.9		-1.94
202.0	36.1	
339.9	50.6	
30.5	86.7	-2.00

Mean -1.88

9 1 27

17 54 85

8 57 42

5 -51

13 56 51

7410.5811

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1906phae.proj..581W

July 18, 1906

Index Left

159.7

9 11 48 207.6

~~Stopped~~ by clouds

H's watch used for times tonight

H watch 51 sec. fast

9

9

5

14

74

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1906phae.proj..581W

July 19, 1906 (Thursday)

Q X Herculis Phot. 3 Ft. Obs. Bowie Rec

18 16 +12.0
15 51.
2 25
9 35

Index Right

Delayed by clouds

247.3 var. dis.

9 5 6

301.2 53.9'
75.4 37.8'
113.2 91.7' -1.87'

255.8 -1.90'
293.3 37.5'
69.2 51.4'
120.6 88.9' -1.94'

Index Left

157.2
207.3 50.1'
346.7 36.4'
23.1 86.5' -2.01'

165.7 -2.04'
9 13 6 201.5 35.8'
339.7 48.9'
29.2 8.6 84.7' -2.06'

18 12
9 9 6
5 -48'
14 8 18'

Mean -1.97'

7411.5891

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1906phae.proj..581W

July 19, 1906

S. J. 17 30
R. A -0 57
Dec +12.0
C. A 150.1 Ser. 8
Sprocket -4.5 8
" -3.5 6

W Y Cygni Phot. 3 H. Obs. Bowie Rec

21	7	+29.6
17	37	
3	30	
8	30	

9
7
9
5
14
74

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1906phae.proj..581W

July 19, 1906.

Index R & A

64.6 ← Comp. Star Dis.

9 47 36

122.4	57.8'	A
234.0	82.6'	
316.6	140.4'	+0.77'

53.2		+0.76'
134.2	81.0'	
245.9	60.1'	
306.0	141.1'	+0.75'

Index L & B

337.0		
32.6	55.6'	B
145.6	74.3'	
219.9	129.7'	+0.98'

325.0		+1.00'
40.0	75.0'	
157.9	53.6'	
211.5	128.6'	+1.01'

9 58 25

105 64'

9 52 62'

5 -48'

14 52 14 S.T. 18h 9m Mean +0.58'

H.A. -2 45

7411.6195 Dec. +29.3

P.A. 150. sbm B

Sprocket -1.5 A

" -0.5 B

" +0.4 6

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1906phae.proj..581W

July 19, 1906

Fourth Type Star +9°4369 Phot. 3 St. Obs. Bowie Rec
19 44 +8.5 Solar 3
18 32

1 12
10 48

Index R & B

	234.8	4th typo lis.
10 49 48	314.5	79.7' A
	63.5	65.7'
	129.2	145.4' -0.67'
	244.1	-0.63'
	306.9	62.8'
	51.0	86.4'
	137.4	149.2' -0.59'

Index L & A

	143.8	
	225.6	81.8' B
	334.9	59.6'
	34.5	141.4' -0.75'
	154.0	-0.73'
10 55 21	215.0	61.0'
104 69	324.7	82.0'
10 52 34	46.7	143.0' -0.71'
5 -48		
15 51 46		Mean -0.68'

74 11.6610

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1906phae.proj..581W

July 19, 1906

S. J. 19 6
L. A. -0 50
Dec. +8.7
P. A. 10 5.6 & 8
Sprockets -0.5 8
" +0.5 6

3 with Type Star +59° 2810 Phot. 3 H. Obs Lowell Bu

24	1	+56.3
19	16	
4	45	
7	15	

9".5 base used

For measurements see fol. page

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1906phae.proj..581W

July 19, 1906.

Index Left

42.3

11 36 40 145.5 ← Comp Star dec.

232.7 10 3.2'

316.0 α 3.3'

146.5 173.5' −0.12"

52.5

132.0 79.5' −0.10"

222.2 104.1'

326.3 α 3.6' 176.4' −0.07"

Index R & B

313.6 101.4'

55.4

145.0 79.6'

224.6 α 1.4' 178.6' −0.03"

324.6 79.5'

44.1 −0.04"

132.7 103.5'

236.2 α 3.0' 177.0' −0.06"

Mean −0.05"

11 41 56

77 96

11 38 78

5 −48

16 38 30

S.T. 19h 46m

H.A −4 10

74 11.6934 Dec +59.1

P.A 259.0 Ker B

Sprocket −0.5 B

" +0.5 b

~~It's watch~~ need for time:

~~Watch~~ 48 sec. fast

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1906phxe.proj...scan

July 20 1906 (Friday)

As sky became a little clearer opened dome but it immediately became all cloudy again, no chance for anything tonight

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1906phae.proj..581W

July 25, 1906 (Wednesday)

(7) Iris H. Obs. Bowie Rec.

20	33	−11.3
16	13	
4	20	
7	40	

20	40	−10.0
16	30	
4	10	
7	50	

8 6 0 Some light cloud in this region: region also rather low.

Star a with Iris

20.4
20.4
9 0 0 20.5
20.6
20.5
20.7
6 | 123.1
20.5

Star b with Iris

20.8
21.0
9 5 40 21.0
21.0
21.1
20.8
6 | 125.7
21.0

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1906phae.proj..594W

July 25, 1906

9 10 Clouds in this region.

Object assumed to be Iris, is Iris.

9 29 Iris now precedes star a by 21.6 sec. and fols. star b by 20.0 sec.

Observations of Iris.

Index R & B

		160,5	Iris dis.	A
10	3	39	207,1	46.6'	I
			334.4	59.8'	
			34.2	106.4'	-1.50'
			154.6		-1,52'
10	6	13	214.0	59.4'	
			341.9	45.9'	
			27.8	105.3'	-1.53'

Index L & A

		69.6		
10	10	43	118.0	48.4'	
			243.8	62.2'	B
			306.0	110.6'	-1,40'
			61.0		-1.40'
10	13	20	125.4	64.4'	
			251.3	46.2'	
			297.5	110.6'	-1.40'

	32	115	
10	8	29	
5	-1	-4	
15	7	25	

Mean -1.46'

7417.6302

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1906phae.proj..581W

July 25, 1906.

Index Σ A

	69.8		B
10 19 22	116.9	47.1'	II
	242.3	64.6'	
	306.9	111.7'	−1.34'
	62.0		−1.40'
10 22 37	126.2	64.2'	
	251.3	45.2'	
	296.5	109.4'	−1.43'

Index Σ B

	342.0		
10 26 24	26.1	44.1'	
	152.7	61.7'	A
	214.4	105.8'	−1.52'
	333.8		
10 29 2	34.8	61.0'	−1.52'
96 85	161.0		
10 24 21	206.2	45.2'	
5 −1 −4		106.2'	−1.51'
15 23 17		Mean	−1.46'

7417.6412

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1906phae.proj..591W

July 25 1906

Index R+B

	343.1	43.6'		III
10 37 22	26.7			
	154.1	60.1'		
	214.2	103.7'	-1.57'	A
	333.0	62.5'		-1.52'
10 41 17	35.5			
	161.2	45.3'		
	206.5	107.8'	-1.47'	

Index L+A

	252.2	44.8'		
10 47 0	297.0			
	62.9	61.2'		
	124.1	106.0'	-1.51'	B
	243.0	63.0'		-1.48'
10 51 18	306.0			
	71.2	45.0'		
	116.2	108.0'	-1.46'	
	176 57			
10	44 14			
5	-1 -4			
15	43 10		Mean	-1.50'

7417.6530

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1906phae.proj..581W

July .25, 1906

Index Lab

	252.0	47.4'	IV
11 0 3	299.4		
	62.8	60.6'	B
	123.4	106.0'	-1.41'
	242.3	64.3'	-1.42'
11 4 2	306.6		
	71.5	44.3'	
	115.8	102.6'	-1.47'

Index Lab

	162.8	42.7'	
11 8 59	205.5		
	335.0	60.9'	A
	35.9	103.6'	-1.57'
	152.3	61.1'	-1.56'
11 13 27	213.4		
	342.5	43.0'	
	25.5	104.1'	-1.56'

	25	91'
11	6	38'
5	-1	-4'
16	5	34'

Mean -1.52'

7417.6705

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1906phae.proj..581w

July 25, 1906

Index R & B

		163.6		V
11	21	33	204.9 5.0	41.4' A
			332.3	61.5'
			33.8	102.9' -1.59'
			154.0	
11	24	47	214.0	60.0' -1.54'
			342.0	44.0'
			26.0	104.0' -1.56'

Index L & A

		72.7		44.0'
11	28	37	117.7	
			244.0	61.6'
			305.6	106.6' -1.50' B
			65.8	
11	32	50	122.7	56.9' -1.56'
			252.5	44.7'
			297.2	101.6' -1.62'

	105	167
11	26	57
5	-1	-4
16	25	53

7417.6846

Mean -1.57'

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1906phae.proj..581W

July 25, 1906

Index I & A

	72.8			VI
11 42 15	115.5	42.7'		
	242.5	63.2'		B
	305.7	105.9'	-1.51'	
	62.9			
11 45 3	125045	61.6'	-1.54'	
	253.6	41.7'		
	295.3	103.3'	-1.52'	

Index A & B

	343.3	41.2'		
11 50 3	24.5			
	154.2	60.4'		A
	214.6	101.6'	-1.62'	
	332.9			
11 54 2	33.0	60.1'	-1.62'	
	163.8			
	204.8	41.0'		
		101.1'	-1.63'	

	191	23'	
11	47	51'	
5	-)	-4'	
16	46	47'	

Mean -1.52'

74 17.6992

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1906phae.proj..581w

July 25, 1906

Index R & B

VII

	342.4		
12 0 56	24.6	42.2'	A
	154.6	59.2'	
	213.8	101.4'	-1.6"
	332.5	62.1'	
12 4 28	34.6		-1.60'
	164.5	41.0'	
	205.5	103.1'	-1.5R'

Index L & A

	242.8	62.3'	
12 10 14	305.1		
	74.0	41.0'	B
	115.0	103.3'	-1.5R'
	252.3	43.9'	
12 14 4	296.2		-1.5'
	65.2	44.5'	
	123.7	102.4'	-1.60'

	28	102'
12	7	26'
5	-1	-4'
17	6	22'

Mean -1.60'

7417.7128

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1906phae.proj..581W

July 25, 1906

Index Left

	242.0		VIII
12 23 45	305.8	63.8	
	72.3	43.2	
	115.5	107.0	-1.49
	252.0		
12 25 30	295.5	43.5	-1.5
	64.0	60.6	
	124.6	104.1	-1.56

Index Right

	154.6	59.8	
12 32 27	214.4		
	343.6	43.4	A
	27.0	103.2	-1.58
	162.2	43.7	-1.58
12 35 55	205.9		
118 160	334.8	59.5	
12 29 70	34.3	103.2	-1.58
5 -1 -4			
17 29 6			Mean -1.57

Reversed telescope

7417.7286

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1906phae.proj...581w

July 25, 1906

Index L & A

62.4 62.6'
125.0
252.6 43.7'
296.3 106.3' −1.50'

71.8 K5.1' −1.K2'
12 49 54
116.9 63.6'
242.0 (0K.7)' −1.K5'
306.35.6

Index Q & S

333.0 61.0'
12 55 30
34.0
16K.10 3.5 KK.5'
208.0 105.5' −1.52'

342.8 K3.0' −1.5K'
12 58 56
25.8
154.2 60.9'
215.21 103.9' −1.56'

209 152'
12 52 53'
5 −1 −4'
17 51 49'

Mean −1.51'

7417.7443

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1906phae.proj..581W

July 25 1906

Index R + S

334.1

13 6 52 34.0 59.9' A

162.3 43.0'

205.3 102.9' -1.59'

342.0 -1.54'

13 10 5 27.6 45.6'

153.4 61.7'

216 5.1 107.3' -1.45'

Index La A

242.3

13 14 32 305.7 63.4' B

72.2 45.1'

117.3 105.5' -1.45'

251.6 -1.46'

13 15 34 296.6 45.0'

62.5 62.7'

125.2 107.7' -1.47'

48 123'

13 12 31'

5 -1 -4'

18 11 27'

Mean -1.50'

7417.7579

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1906phae.proj..581W

July 25, 1906

Index Lo A

		242.7		XI
13	27	8	306.1	63.4'
			71.0	46.2'
			117.2	109.6' -1.43'
			252.0	-1.44'
13	30	38	297.5	45.5'
			63.0	63.5'
			126.5	109.0' -1.44'

Index R+B

			154.6	A
13	33	8	213.9	59.3'
			341.9	44.5'
			26.4	103.8' -1.56'
			162.6	-1.55'
13	35	20	205.8	43.2'
			333.8	61.4'
			35.2	104.6' -1.54'

	125	74'
13	31	34'
5	-1	-4'
18	30	30'

Mean -1.50'

S.J. 22h 8m
H.A. +1 31
Dec. -11.0
R.A. 147.0 Ver B
Sprocket -2.5 A
" -1.5 B
" -1.0 b

7417.7712

It's watch needs for times
~~Watch~~ 1 mn. 4 sec. fast

over.

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1906phae.proj..581W

July 25. 1906.

Much moisture in air throughout evening. Observations, consequently, a little labored. " , however, made slowly and with much care. Hence, although the night was rather poor, observations generally considered good. Last group were difficult and less satisfactory. Thin ½ wty.

Object observed was ~~1 cis.~~ It ~~passed~~ considerably during the ~~evening~~ observations; ~~was~~ was rather bright, and not on S.D. chart.

Comp. Star in prec. obs. of 1 cis, was

S.D. − 11° 5397 (9.5)

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1906phae.proj..581w

July 27, 1906 (Friday)

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

18	40	+37.4
16	25	
2	15	
9	45	

Region identified, although somewhat cloudy. Clouds now coming in from the east in a much more pronounced way. Zeta Lyrae (near which this star is) nearly gone to naked eye, stars also gone in telescope.

Sky all covered with clouds. Practically no stars visible, apparently no chance for anything tonight.

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1906phae.proj..581W

July 30, 1906 Monday

Fourth Type Star +34° 4500 Phot J K Obs Bowie Rec

21	36	+34.8
18	50	
2	46	
9	14	

No cap used

Index L & A

161.0 ← 4th type dis

207.7	46.7'	
343.8	40.0'	
23.8	86.7'	-2.00'

10 20 5

164.4 -1.96

204.0	39.6'	
341.3	50.7'	
32.0	90.3'	-1.91'

Index R & B

68.4

120.5	52.1'	
253.7	38.3'	
292.80	90.4'	-1.90'

77.4 -1.89'

112.6 3.0	35.6'	
245.4	55.6'	
301.0	91.2'	-1.88'

Mean -1.92'

10 29 0

49 5

10 24 32

5 -5

15 24 27

7422.6420

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1906phae.proj..581w

July 30, 1906

S.T. 19^h 23^m
H.A -2 15
Dec $+34.3$
P.A 251.9 Ser. 8
Sprocket accidently moved before being read; region however identified

Fourth Type Star $+59°$ 2.8 10 Phot. J Ks. Obs. Goode Room

24	1	+58.3
19	31	
4	30	
4	30	

Stopped by clouds

H's watch used for times tonight
H watch 5 sec. fast

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1906phae.proj..581W

July 31, 1906 (Tuesday)

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

18	40	+37.4
16	32	
2	8	
9	52	Index R+B
		226.7.

Opened dome and tried for above star, but clouds came immediately, and nothing could be accomplished; apparently no chance for anything tonight.

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1906phae.proj..581W

Aug. 8. 1906. (Wednesday).

Fourth Light +70° 6KK Phot. I. Y. obs. H. rec.

Index L + B.		Comp. Star Dec.
142.0	4K.0	
226.0		
332.8	61.3	+0.67
3K.1	165.3	

9 4 3V

+0.64

1V K.0	61.7	
21V.7		
322.9	43.2	+0.64
46.1	166.9	

Index R. + A.		Clouds.
22K.3	93.7	
322.0		
V4.V	69.9	+0.31
12A.K	163.6	

239.0	64.V	+0.3V
307.V		
K4.V	91.2	+0.39
139.7	1V9.7	

9 V4

	89	
9	44	
5	+1	+35
14	45	35

Troubled by clouds.

Dec. +70.2 Mean +0.V2

P. A. 156.1 Vor. B.

7431.6150 Sprocket. - KV B. Watch 1m 3V.5 slow.

" - 3.5 C.

Light went out as K. A. not read.

Region identified.

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1906phae.proj..581W

Aug. 9. 1906. (Thursday).

Fourth Type +64° 617 Yr. obs. H. rec.
Phot. S.
Index right + above.

9 32 1

2V2.2		
29V.V	43.3'	A
40.4		
109.V	29.1' / 72.4'	−2.43'
2V4.4		
290.V	32.1'	−2.46'
7V.0		
113.7	39.7' / 70.4'	−2.44'

Index left + below.

171.7	26.V'	
198.2		
343.4	39.9' / 66.4'	−2.63' B
23.7		
164.6	39.6'	−2.V4'
204.2		
349.7	29.3' / 64.9'	−2.V4'
19.0		

Mean −2.V2'

9	5	20
	96	21
9	48	10
5	+1	+37
14	49	47

7432.6180

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1906phae.proj..581w

Aug. 9. 1906.

R. T.	$19^h\ 32^m$
H. A.	2 V6
Dec.	+64.1
R. A.	59.6 Var. B.
Sprocket	−2.V B
"	−1.5 C

Region identified.

Full Aperture used.

Sky pretty clear during observations.

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1906phae.proj..581W

Aug. 9. 1906.

Fourth Type +59° 2421 (7.4)
Plate F. Exp. 60m. Exp. rec.

24	1	+V4.3
19	K4	
-4	13	
7	K7	

Index right and below.

	47.V		
10 46 VV	14K.V	97.0	
	232.2		
	31K.2	42.6 / 179.6	-0.01 A
	V7.1		
	136.1	79.0	-0.0V
	22V.7		
	322.0	96.3 / 175.3	-0.09

For other half of groups, see next page.

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1906phae.proj..581w

Aug. 9. 1906.

Index left + above.

316.7 95.7'
r 2.4
14 K.4
225.0 20.6'
176.3. −0.07'

326.0
4K.1 74.1' −0.10'
137.0
232.5 95.5'
173.6. −0.12'

Mean −0.08'

11 5 20

21 51 75.
10 55 68.
5 +1 +37.
15 57 45.

7432.6652

S. T. 20h r 3m
H. A. 2 r 7
Dec. +59°.1
P. A. 70°.2 Ver. B.
Sprocket −0.5 B
" +0.5 C

Hi watch used. Watch 1m 37s slow.

Sky pretty clear during observations.

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1906phae.proj..581W

Aug. 13. 1906. (Monday).

Iris. H. obs. Bassc. roc.
Phot. I.

$20^h\ 10^m \quad -13.0$
$17 \quad 35$
$-2 \quad 35$
$9 \quad 25$

$2^h\ 15^m$ Iris prec. Comp. Star by 46 secs. and is 4' north of it.

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1906phae.proj..581w

Aug. 13. 1906.

Index L. 46. Iris. measts.

	246.2		Iris. Lus.	I
8.35 21	304.4	+2.2		
	59.0			B
	127.5	6	+1.0	
		126.7		
	240.2	70.2		-1.0
8.39.50	311.9			
	66.0	+6.1		
	122.1	126.9	-1.0	
Index R. 43.				
	158.5	+3.2		
8.43.59	212.0			
	328.5	74.5		A
	40.1	124.7	-1.0	
	148.9	69.1		-1.1
8.48.15	217.0			
	338.5	+0.1		
	28.6	119.2	-1.21	

	163	144	
8	40	81	
5	+1	+11	
13	42	32	

Mean -1.10

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1906phae.proj..581W

Aug. 13. 1906.

Index R. & B.

	158.4			
8.55.50	209.4	r 1.0		A
	329.0	66.4		II
	35.4	117.4	-1.2r	
	150.2	67.4	-1.23	
8.59.50	217.6			
	338.5	r 1.9		
	30.4	119.3	-1.21	

Index L. & A.

	69.1	r 3.4		
	120.5			
9.5.0	237.0	73.4		
	310.4	126.2	-1.0r	B
	57.6	71.4	-1.0A	
	129.0			
	249.1	r 2.9		
	302.0	124.3	-1.10	

Mean -1.16

h	m	r
9	9	
34	126	109
8	61	57
5	+1	+11
14	3	8

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1906phae.proj...584w

Aug. 13. 1906.

Index L. & A.

	69.3			
9.13.0	119.3	50.0		
	238.4	71.0		III
	309.4	123.0	-1.13	B
	60.0			
9.16.25	130.2	70.2	-1.11	
	249.3	47		
	302.0	124.9	-1.09	

Index K & B

	337.4			
9.23.0	31.0	53.6		
	150.0	69.0		
	219.0	122.6	-1.14	A
	328.7			
926.10	38.5	69.8	-1.17	
	159.0	49.8		
	208.8	119.6	-1.20	

9	78	35	
9	19	39	
5	+1	+11	
14	20	50	

Mean -1.14

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1906phae.proj..581W

Aug. 13. 1906.

Index R. & B.

	337.5			
9.34.30	29.9	+2.4		IV
	150.2	62.2		
	215.4	120.6	-1.12	A
	329.0	69.3	-1.20	
9.39.30	37.3			
	160.0	48.2		
	~~209.2~~	117.1	-1.23	
	208.8			

Index L. & A.

	247.7	+4.2		
9.45.20	301.9			
	58.5	72.5		
	131.0	126.7	-1.05	B
	239.2	69.2	-1.09	
9.50.10	309.0			
	68.2	+3.0		
	121.2	122.2	-1.13	

	168	90	
9	42	22	
5	+1	+11	
14	43	33	

Mean -1.14

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1906phae.proj...58tw

Aug. 13. 1906.

Index L-A

	246.6			
9.05-9.59	301.3	ν 4.7'		V
	58.0	71.ν'		
	129.5	126.2'	-1.06'	B
	236.4	73.1'	-1.04'	
10.3 15	309.5			
	67.4			
	122.2	ν 4.2'	-1.02'	
Index B+B.		127.9'		
	157.6			
10.9.50	211.5	ν 3.9'		
	328.0			
	70.1	72.1'	-1.06'	
	148.5	72.9'	-1.07'	A
10.14.30	221.4			
	338.3	ν 2.3'	-1.08'	
	30.6	125.2'		
		5		

39	85	154
9	66	54
5	+1	+11
15	8	5

155.5

Mean -1.06'

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1906phae.proj..581w

Aug. 13. 1906.

Index R & B.

158.5
211.4 +2.9'
330.0 70.0'
40.0 122.9

338.5
30.9 +2.2'
149.7 73.2'
220.9 125.4' -1.04'

VI

-1.10'

~~10.25.0~~
~~10.32.05~~

~~148.1~~
~~220.4~~

~~10.29.45~~

A

Index L & A.

238.2
309.0 70.8'
66.9 +4.1'
121.0 124.9' -1.09'

B

246.5 +6.0' -1.04'
302.5
57.2 73.3'
130.5 129.3' -0.99'

Mean -1.07'

10.41.55

10.49.20

	147	75'
10	36	64'
5	+1	+11'
15	38	15'

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1906phae.proj..581w

Aug. 13. 1906.

Index L. & C.
236.0
11.9.20 311.3
66.2

Stopped by bad atmospheric conditions. Heard mutterings in air and progressively worse & more. Obs. gather'd but considered pretty good.

Iris looked up in sky and identified last night. Place to night checked with last night. Object of last night has moved to region of tonight and is not on P.S. charts here.

Iris seem to change its position during observations. Motion obtained both last night and to night.

Comp. Star = − 12° 5706 (9.3)

S.T.	21h − 12m	
H.A.	+ 0.5	
Dec.	− 12.8	
R.A.	109.2	
Sprocket	− 1.5	A
"	− 0.5	B
"	0.0	C

W's watch used for time. W. 1.11 slow

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1906phae.proj..581W

Aug. 14. 1906. (Tuesday)

Fourth Type + K2 · K27 Chol. V.
H. obs. Sr. rec.

Index L + B.

324.0	7V.A	Fourth Type Lis.
K3.A		
1VV.V	V9.3	B
21K.A	13V.1	−*0.A7
336.0	VV.V	−*0.A6
31.V		
1KK.A	A1.3	
226.1	136.A	−*0.AK

Index R + A.

6K.1	62.0	
126.1		
22A.V	92.7	A
321.2	1VK.7	−*0.KA
K9.0	AA.0	−*0.K6
137.0		
2K1.0	69.2	
310.2	1V7.2	−*0.K3

Mean −*0.66

.10	17
19	72
9	66
5	+1 +12
15	7 12

9h VV

H's watch used. Watch 1m 12s slow.
Region identified.

7437.6300

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1906phae.proj...581W

Sept 3, 1906 (Monday).

Delayed early part of evening by trying to find misplaced charts.

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

21 36 +34.8. 9.5 bap

19 26

2 10

9 50

Index Lock

157.7 ← 4th type dis. (B)

δ 33 50 207.4 49.7'

346.0 36.2'

22.2 85.9 −2.03'

165.3 −1.98

203.8 38.5'

338.8 50.9'

29.7 30.3 89.4' −1.93'

Index R & B

66.7

120.3 53.6' (A)

255.2 39.3'

294.6 92.9' −1.84'

74.7 −1.90'

δ 42 53 113.4 38.7'

248.4 49.1'

297.5 87.8' −1.97'

Mean −1.94'

75 103

8 37 82

5 −1 −29

13 36 53

7457.5673

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1906phae.proj..581W

Sept. 3, 1906

S. T. 19^h 48^m
Ho. A. −1 50
Dec. +34.3
P. A. 252.3 Ser. 8
Sprocket +0.5 8
" +1.5 6

Fourth Type Star +68°617 Phot Jk. Obs Bonn Ser

10	35	+68.2
20	4	
9	29	

Clouds

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1906phae.proj..581W

Sept. 3, 1906

Index LaB

351.3	345.7	4th type dia.	
16.8	21.2	25.5'	
167.4	180.5	32.9'	
200.3	196.3	58.4'	-2.92'
346.5	350.2		-2.88'
22.6	17.8	36.1'	
171.5	167.5	24.3'	
195.8	201.2	60.4'	-2.84'

Index RcA

254.8			
294.0		39.2'	
77.2		30.3'	
107.5		69.5'	-2.52'
260.0			-2.54'
290.7		30.7'	
74.3		37.7'	
112.0		68.4'	-2.56'

Mean -2.71'

11 9 46
9 22 30

10 47 35
21 56 81
10 58 40
5 -1 -29
15 57 11

S.J. 21 55
H.A +11 15
Dec +68.4
P.A 240.0
Sprocket -2.5
-1.5

7457.6647

Somewhat troubled by clouds in last half of above group

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1906phae.proj..581W

Sept 3, 1906

Evidently something wrong in first half of group, probably due to clouds which were continually troublesome throughout, so that first half of group was retaken, after it became much clearer.

H' a watch used for times
Hatch 1 min. 29 sec. fast

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1906phae.proj..581W

Sept. 4, 1906 (Tuesday)

Fourth Type Star +9° 3576 Phot 3 H. Obs Bowie

18	1	+9.5
18	26	
0	25	

Index Lab

8 13 30	323.0	141.1	lamp	Star dis.
7 52 35	42.4	227.2	79.4	79.4
	152.9	331.0	62.9	62.9
	215.8	36.2	142.3	142.3
				+0.73
				+0.55
				+0.67
				+0.71
	330.0	153.0		
	34.7	216.8	64.7	63.8
	142.3	323.4	83.4	78.6
	225.7	42.0	148.1	142.4
				+0.61
				+0.73

Index Lab B

	62.9	
	124.4	61.5
	232.0	85.0
	317.0	146.5 +0.64
	53.7	+0.64
8 2 53	136.1	82.4
15 83	242.0	64.7
8 7 72	306.7	147.1 +0.63
5 -1 -27		
13 6 45		Mean +0.66

74 58.5464

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1906phae.proj..581W

Sept. 4, 1906

S.T. 19^h 30^m
H.A +1 24
Dec +9.5
P.A 3.0 Ser. S
Sprocket -4.5 A
" -3.5 S
" -3.0 b

Region of prec
4th type Star thoroughly
identified

Fourth Type Star -16° 5272 Phot. J Hr. Obs Bowie Rec
19 11 -16.2
19 49
0 38

Full aperture used

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1906phae..proj..581W

Sept. 4, 1906.

Index Below

	62.3 ← 4th type dis	(B)
8 55 53	128.8	66.5'
	250.6	46.3'
	296.9	112.8' -1.35'
	71.3	-1.38'
	117.9	46.6'
	241.8	63.4'
	305.2	110.0' -1.42'

Index Above

	333.4	
	34.7	61.3' (A)
	160.3	45.5'
	205.8	106.8' -1.49'
	341.8	-1.49'
	26.8	45.0'
	153.0	61.9'
	214.9	106.9' -1.49'

9	5	8	
17	60	61	
8	60	30	
5	-1	-27	
13	59	3	

Mean -1.44'

S.T. 20h 22m
H.A. +1 7
Sec. -15.7
P.A. 294.8 V. B
Sprocket -1.5 A
" -0.5 B
" 0.06

Region thoroughly identified

1458.5826

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1906phae.proj..581w

Sept. 4, 1906

Fourth Type Star +34° 56 Phot. 3 St. Obs Bowie Rec

24 29 +32.9 Full aperture used

20 34

3 55

8 5

Index R & A

A

325.1 4th type dis

45.1 80.0'

152.4 61.6'

214.0 141.6' -0.74'

9 50 12

335.0 -0.76'

34.8 59.8'

143.8 79.2'

223.0 139.0' -0.79'

Index L & B

B

233.3

314.5 81.2'

60.0 67.0'

127.0 148.2' -0.61'

241.2 -0.57'

307.0 65.8'

50.7 86.7'

137.4 152.5' -0.53'

Means -0.66'

9 59 35

109 47'

9 54 54'

5 -1 -27'

14 53 27'

7458.6204

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1906phae.proj..581w

Sept. 4, 1906.

S. T. 21h 17m
H. A. -3 7
Dec. +34.1
P. A. 156.7
Sprocket -3.5 A
" -2.5 B
" -2.0 b

Region thoroughly identified

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

18	40	+37.4
21	40	
3	00	

Measurements on fol. page

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1906phae.proj..581W

Sept. 4, 1906

Index L & A

	234.1	~~4th type~~ dia	
10 55 47	313.0 2.6	78.5'	B
	61.2	62.4'	
	123.6	140.9'	-0.76'
	243.0		-0.77'
	307.0	64.0'	
	56.2	75.9'	
	132.1	139.9'	-0.78'

Index R & B

	144.6		
	226.3	81.7'	A
	331.0	64.3'	
	35.3	146.0'	-0.65'
	150.8		-0.66'
	217.4	66.6'	
	324.8	79.3'	
	44.1	145.9'	-0.66'
			Mean -0.72'

11	5	40
21	60	87
10	60	44
5	-1	-27
15	59	17

S.J. 22^h 19^m
H.A. + 3 38
Dec +37.1
P.A. 236.3
Sprocket +0.5 B
" +1.5 b

7458.6662

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1906phae.proj..581w

Sept. 4, 1906.

Very clear throughout evening, moon (~~two~~ days old) rose 7:26 P.M.

~~It's watch need for times tonight~~
~~Watch~~ 1 m. 27 sec fast

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1906phae.proj..581W

Sept. 5, 1906 (Wednesday)

Fourth Type Star +38 2389 Phot 34 Obs Bowie Rec
Full aperture

12	49	+39.1
18	34	
5	45	

Index R & B

322.9	4th type dis	
43.2	80.3'	A
154.0	58.7'	
212.7	139.0'	-0.79'

7 44 53

335.0		-0.78'
35.4	60.4'	
142.4	80.1'	
222.5	140.5'	-0.76'

Index L & A

230.0		
317.7	87.7'	B
60.0	63.4'	
123.4	151.1'	-0.55'

242.4		-0.58'
303.944	62.0'	
51.0	86.5'	
137.5	148.5'	-0.60'

Mean -0.68'

7	55	10
	99	63
7	49	62
5	-1	-24
12	48	38

7459.5337

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1906phae.proj..581W

Sept. 5, 1906.

S.J. 19 15.
Hb. A +6 20
Dec. +38.5
P. A 23.7 for B
Sprocket -4.4 A
" -3.5 B
" -2.7 b

Fourth Type Star +53° 66 Phot 3 Hr. Obs Bowie Rec

24	24	+53.7
19	32	
4	52	
7	8	

For measurements see fol. page

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1906phae.proj..581W

Sept. 5, 1906

Index R & A

	138.3	Comp Star dis
8 43 9	226.9	88.6'
	333.1	63.6'
	36.7	152.2' +0.53'
	151.0	+0.55'
	217.0	66.0'
	323.0	84.1'
	47.1	150.1' +0.57'

Index L & B

	46.6	
	138.4	91.8'
	243.0	63.5'
	306.5	155.3' +0.47'
	60.7	+0.48'
	125.9	65.2'
	229.4	89.5'
	319.2	155.0' +0.48'

Mean +0.52'

8	50	35
	93	44
8	46	52
5	-1	-24
13	45	28

7459.5732

S.J. 20 10
Hb. A. -4 10
Dec. +53.1
P.A. 141.0 Ver ☌
Sprocket -0.5 ☌
" +0.5 ☌

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1906phae..proj..581W

Sept. 5, 1906

Fourth Type Star 49° 41 Phot. J Kr. Obs. Sovie Rec

24 5 +49.1
20 45
13 8 - 20 40

Index R & B

317.2 ← Comp Star dis. (A)

10 2 24

51.0 93.8'
148.9 69.6'
218.5 163.4' +0.32'

329.5 +0.30'
42.9 73.4'
138.6 92.4'
231.0 165.8' +0.27'

Index Lyr A

226.2
319.6 93.4'
56.5 73.3'
129.8 166.7' +0.25' (B)

239.8 +0.32'
307.5 67.7'
47.5 91.4'
138.9 159.1' +0.40'

10 9 12
11 36'
10 5 48'
5 -1 -24'
15 4 24

Altitudes pretty high; observations a little dif. but considered good

Mean +0.31'

7459.6281

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1906phae.proj..581W

Sept. 5, 1906.

S. T. 21h 28m
H. A. -2 45
Dec. +49.0
P. A. 78.0 Ver. S
Sprockets -0.5 S
" +0.5 L

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

23	39	+2°.7
21	50	
1	49	
10	11	

9".5 L apr used
Polar L

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1906phae.proj.:581w

Sept. 5, 1906.

Index R & B

	166.5 ← 4th Type dia		
10 55 38	199.7	33.2'	A
	352.5	25.3'	
	17.8	58.5'	-2.92'
	171.0		-2.96'
	195.6	24.6'	
	349.6	31.5'	
	21.1	56.1'	-3.01'

Index L & A

	73.7		
	111.0	37.3'	
	259.7	27.8'	
	285.5	65.1'	-2.67' B
	79.8		-2.74'
	107.9	28.1'	
	257.8	33.2'	
	291.0	61.3'	-2.81'

11	5	17	
21	60	55	
10	60	28	
5	-1	-24	
15	59	4	S. T. 22h 26m

Mean -2.85'

H. A -1 17

Dec +2.0

7459.6661 P. A 166.5 Ser B

Sprocket -9.5 A

" -0.5 B

" -0.0 b

H's watch used for times.
Watch 1 min. 24 sec. fast

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1906phae.proj..581W

Sept. 6, 1906 (Thursday)

Fourth Type Star +46° 1817 Phot. 3 Hr. Obs. Bowie Rec
12 38 +46.2 Color 5 in large tel.
18 56 " 6 with phot. on
6 18

Index R&A

260.0	← 4th type dis.	
286.1	26.1'	A
85.0	17.9'	
102.9	44.0'	-3.56'

7 57 24

266.0		-3.58'
283.1	17.1'	
81.0	26.1'	
107.1	43.2'	-3.60'

Index L&B

171.4		
197.0	25.6'	B
356.4	15.9'	
12.3	41.5'	-3.69'

174.6		-3.67'
191.82	16.6'	
352.2	25.6'	
17.8	42.2'	-3.65'

Mean -3.62'

8	6	20
15	63	44
7	61	52
5	-1	-24
13	0	28

7460.5420

8 16 0 Moon has not yet risen.

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1906phae.proj..581W

Sept. 6, 1906.

S. S. 19^h 32^m
H. A +6 48
Dec. +46.2
P. A. 78.5 Ser B
Sprocket -2.5 A
" -1.5 B
" -1.0 b

Four the Type Star +61°667 Phot. Pk. Obs. Bowie Rec

$2\frac{7}{3}$	44	+62.7
19	44	
6	00	
4	00	

Solar $\frac{1}{4}$ in large tel.

Measurements on fol. page

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1906phae.proj..581W

Sept. 6, 1906.

Index R & A

57.0 ← 4th type dis

8. 52 0	132.0	75.0'	
	245.9	57.0'	
	302.9	132.0'	-0.94' A
	64.5		-0.85'
	123.7	59.2'	
	232.2	81.3'	
	313.5	140.5'	-0.76'

Index L & B

329.4		
37.9	68.5'	
159.2	51.6'	
210.8	120.1'	-1.19' B
338.8		-1.20'
28.4	49.6'	
150.7	69.4'	
220.1	119.0'	-1.21'

9	0	18
17	52	18
8	56	9
5	-1	-24
13	54	45

S. J. 20 25

H. A. -7 33

7460.5798

Dec. +61.2

R. A. 183.3 Ver B

Sprocket -4.5 A

" -3.5 B

" -3.0 b

Mean -1.02'

Moon 8° above horizon
(9h.13m)

9 5 14 74

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1906phae.proj..581W

Sept. 6, 1906.

Fourth Type Star +25° 205 Phot. I. H. Obs. Bowie Rec.
25 11 +26.5 Solar 5 in large tel.
20 46
4 25
7 35

Index Below

	344.0 ← 4th type dis	
9 49 8	24.4	40.4'
	167.6	30.4'
	198.0	70.8' -2.48'

	350.0	-2.52'
	18.8	28.8'
	164.4	39.6'
	204.0	68.4' -2.56'

Index Above

	251.5	
	297.8	46.3'
	77.2	32.7'
	109.9	79.0' -2.22'

	259.0	-2.24'
	291.0	32.0'
	69.7	46.3'
	116.0	78.3' -2.25'

Mean -2.38'

9	59	0
	108	8
9	54	4
5	-1	-24
14	52	40

7460.6199

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1906phae.proj,.581W

Sept. 6, 1906.

S.T. 21h 25m
H.A. −3 48
Dec. +24.9
P.A. 35.1 Ser. B
Sprocket −3.5 A
" −2.5 B
" −2.0 b

Fourth Type Star +9° 4369 Phot I St. Obs Bonn Rec

19	44	+8.5
21	46	
2	2	

11
21
10
5
15

74

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1906phae.proj..581w

Sept. 6, 1906.

Index R & A

	149.0 ← 4th type dis		
10 51 50	217.5	68.5'	
	338.3	52.6'	A
	30.9	121.1'	-1.17'
	156.4		-1.13'
	209.2	52.8'	
	329.1	72.1'	
	41.2	124.9'	-1.09'

Index L & B.

	55.4		
	134.9	79.5'	
	245.5	58.6'	B
	304.1	138.1'	-0.81'
	65.4		-0.82'
	122.9	57.5'	
	234.0	80.3'	
	314.3	137.8'	-0.82'

11 1 53		
21 52 103'		
10 56 52'		
5 -1 -24'		
15 55 28'		

	☉ J 22	26
	☽ A +2	28
7460.6636	Dec +9.6	
	P. A 106.0 Ber B	
	Sprocket -0.5 B	
	" +0.5 b	

Mean -0.98'

It's watch used for times
Watch 1 min. 24 sec fast

Moon 4 days past full

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1906phae.proj..581W

Sept. 7, 1906. (Friday)

Fourth Type Star 59° 2810 Phot. J K. Obs. Bowie Rec
24 1 + 58.3 Color 7 in large tel
18 36 9.5 bar
5 25
6 35

Index R & B

	44.2 ←	4th type dis A
7 42 26	142.7	98.5'
	235.5	76.5'
	312.0	175.0' −0.09'
	53.9	−0.04'
	133.4	79.5'
	223.4	100.8'
	324.2	180.3'
		179.7' +0.01'

Index L & A

	314.0	
	53.4	99.4' B
	145.5	78.5'
	217.0	167.9' −0.23'
	329.4	−0.25'
7 50 25	37.4	68.0'
92 51	134.3	97.6'
7 46 26	231.9	165.6' −0.27'
5 −1 −24		
12 45 2		Mean −0.15'

7461.5313

Color not particularly apparent in plate even at full brightness of star. Color might perhaps

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1906phae.proj...581w

Sept. 7, 1906

be called 2 in photometer

S. T. 19h 19m
R. A. -4 35
Dec. +59.2
P. A. 78.7 Ser S
Sprocket -0.5 S
" +0.5 b

Fourth Type Star +42° 4827 Phot. J H. Oba, Lowell Obs.

23.	50	+41.9
19	25	
4	25	
7	35	Polar 5

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1906phae.proj..581W

Sept. 7, 1906.

Index R & A

	50.6	4th type dis
8 28 48	136.0	85.4' A
	242.5	63.5'
	306.0	148.9' -0.60'
	62.0	-0.54'
	125.9	63.9'
	228.6	90.4'
	319.0	154.3' -0.49'

Index L & B

	324.3	
	45.3	81.0' B
	155.6	58.4'
	214.0	139.4' -0.79'
	332.9	-0.76'
	3~~34~~.4	61.5'
	142.8	81.2'
	224.0	142.7' -0.72'

Mean -0.65'

8	38	14	
	66	62	
8	33	31	
5	-1	-24	
13	32	7	

7461.5640

S. J. 20 11
S. A. -3 50
Dec. +42.5
P. A. 172.6
Sprocket -2.4
" -1.5
" -0.86

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1906phae.proj..581W

Sept. 7, 1906

Fourth Type Star + 34° 56 Phot. I ✕ Obs. Bowie Rec.

24	29	+32.9
20	39	
3	50	
8	10	

Color 4

Index A & B

142.0 ← 4th type dis

9 39 50	224.4	82.4'
	335.0	58.3'
	33.3	140.7' -0.76'

A

	153.7	-0.75'
	214.7	61.0'
	323.6	80.7'
	44.3	141.7' -0.74'

Index C & B

	49.1	
	139.2	90.1'
	240.3	68.1'
	308.4	158.2' -0.42'

B

	60.6	-0.42'
9 48 6	125.1	67.5'
87 56'	225.1	89.7'
9 43 58'	317.8	157.2' -0.43'
5 -1 -24'		
14 42 34'		

Mean -0.58'

7461.6129

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1906phae.proj..581W

Sept. 7, 1906

S. J. 9 13
Hb. A. -3 10
Dec. +34.2
P. A. 157.0 Ser B
Sprocket -3.5 A
" -2.5 B
" -2.0 b

Fourth Type Star +2° 4709 Phot J Hv. Obs. Bonn Rec

23	39	+2.7
21	35	
2	4	
9	5 6	

9.5 Crap used

Color 5 in large tel.
" " in phot.

10
10
5
15
74

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1906phae.proj..581W

Sept. 7. 1906

Index R & A

167.7 ← 4th type dia

10 39 35	200.4	32.7'	
	352.5	23.5'	A
	16.0	56.2'	-3.01'
	171.0		-2.99'
	195.9	24.9'	
	348.0	32.2'	
	20.2	57.1'	-2.97'

Index L & B

	79.3		
	108.4	29.1'	B
	255.6	36.2'	
	291.8	65.3'	-2.67'
	75.5		-2.72'
10 47 14	111.5	36.0'	
86 52	260.6	26.8'	
10 43 26	287.4	62.8'	-2.76'
5 -1 -24			
15 42 2			Mean -2.86'

S. J 22 15

H. A -1 27

Dec +2.0

P. A 165.6 Use B

Sprocket -9.5 A

" -8.5 B

" -8.0 b

7461.6542

It's watch used for times

Watch 1 min 24 sec fast

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1906phae.proj..581W

Sept. 8, 1906 (Saturday)

Peraski's Var 76. 1905 Ha Obs Bruce Rec

19	27	55.1
18	45	
0	42	
11	1.8	

Variable identified and comp. star selected and probably initial will be used is +56° 2260 (9.2)

Fourth Type Star -16° 5272 Phot 3 Ha Obs Bruce Rec

19	11	-15.8
19	54	
0	43	

Color 5 in large tel.

9 14 0 * Moon not yet risen.

* After group on fol. page

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1906phae_proj..581W

Sept. 8, 1906.

Index L & A

334.5 ← 4th type dis

337.2 6.5	62.0'	
163.0	41.9'	
204.9	103.9'	-1.56'
342.9		-1.56'
25.9	43.0'	
153.2	61.0'	
214.2	104.0'	-1.56'

Index R & B

240.0		
306.8	66.8'	
72.1	44.3'	
116.4	111.1'	-1.39'
250.5		-1.36'
297.5	47.0'	
61.0	66.3'	
127.3	113.3'	-1.34'

Mean -1.46'

8 49 49

8 58 38

107 87

8 53 74

5 -46

13 53 28

S.J. 20 29

H.A. +1 15

7462.5788 Dec. -15.5

P.A. 114.5 Ser B

Sprocket -1.5

" -0.5

" 0.0

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1906phae.proj..581W

Sept. 8, 1906.

Fourth Type Star +25° 205 Phot J St. Obs Bowe Rec
25 8 +25.0 Color 5 in finder
20 55
4 13
7 47

Index Below

	163.0 ← 4th type Star dis	
9 45 50	204.2	41.2'
	349.2	30.6'
	19.8	71.8' -2.45'
	165.3	-2.44'
	199.3	31.0'
	343.6	41.5'
	25.1	72.5' -2.43'

Index Above

	69.5	
	118.2	48.7'
	258.2	33.0'
	291.2	81.7' -2.14'
	76.4	-2.10'
9 53 10	110.9	34.5'
9 49 30	249.2	50.2'
5 -46	299.4	84.7' -2.06'
14 48 44		Mean -2.27'

7462.6172
9 55 0

Moon (half) about 5° above horizon

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1906phae.proj..581W

Sept. 5, 1906

S.J. 21^h 26^m
H.A. −3 .45
Dec. +249
P. A 35.0 Ser B
Sprocket −3.5 A
" −2.5 B
" −2.0 b

Beraski's Var. 76. 1905 Phot J. H. Obs. Bowie Rec

19	27	+55.1
21	37	
2	10	

Comp. Star = +56° 2260 (9.2)

Measurements on fol. page

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1906phae.proj..581W

Sept. 8, 1906

Index Above

317.0	← var. dis		
50.2	93.2'		I
145.0	75.3'		A
220.3	168.5'	−0.22'	
326.0		−0.20'	
40.7	74.7'		
135.1	95.1		
230.2	169.8'	−0.19'	

Index Below

222.6			
324.8	102.2'		
54.8	80.9'		B
135.7	183.1'		
	176.9'	+0.06'	
234.9			
312.9	78.0'	+0.04'	
42.4	103.0'		
145.4	181.0'		
	179.0'	+0.02'	

Means −0.08'

10 31 10

10 41 47

72 57'

10 36 28'

5 −46'

15 35 42'

7462.6498

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1906phae..proj...581W

Sept. 8, 1906

Index Below

II

222.5		
325.0	102.5'	
55.0	77.8'	
132.8	180.3'	
	179.7'	+0.01'

10 48 46

232.1		
314.8	82.7'	+0.05'
42.4	102.2'	
144.6	184.9'	
	175.1'	+0.09'

Index Above

A

137.0		
231.4	94.4'	
325.4	75.6	
41.0	170.0'	-0.19'

144.0		-0.14'
221.5	77.5'	
314.7	97.6'	
52.3	175.1'	-0.09'

Mean -0.04'

11 0 58

21	48	104'
10	54	52'
5		-46'
15	54	6'

7462.6626

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1906phae.proj..581W

Sept 8, 1906

Index Above

III

11 15 48	134.7 ~~54.9~~		
	233.2	98.5'	
	325.5	75.9'	
	41.4	174.4'	−0.11'
	146.9		−0.15'
	220.9	74.0'	
	316.2	96.2'	
	52.4	170.2'	−0.19'

Index Below

	43.7		
	147.5	103.8'	
	232.6	82.3'	
	314.9	186.1'	
		173.9'	+0.11'
	53.7		
11 25 48	134.9 5.4	81.7'	+0.10'
40 96	224.0	102.6'	
11 20 48	326.6	184.3'	
5 −46		175.7'	+0.08'
16 20 2			

S. J. 22h 52m

R.A 3 21

Mean −0.02'

7462.6806 Dec. +56.6

P.A. 220.0 for B

Sprocket −2.5 B

" −1.5 b

Altitude rather high especially at beginning. This combined with moon light and some haze made the obs a little

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1906phae.proj..581W

Sept 8, 1906.

labored and dif. All possible care exercised. Seeing somewhat poor.

H's watch used for times tonight
H watch 46 sec. fast.

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1906phae.proj..581W

Sept. 11, 1906 (Tuesday)

α Ophiuchi Phot. J H. Obs. Bowie Rec

17 9 +1.3
18 56
+1 47

7" bap used

Index Left

144.0 var. dis I
225.0 81.0'
336.5 54.3' B
30.8 135.3' -0.87'

7 39 52

155.1 -0.90
212.5 57.4'
326.4 74.7'
41.1 132.1' -0.94'

Index Right

52.0
136.8 84.8' A
243.8 57.2'
301.0 142.0' -0.73'

64.4 -0.72
125.3 60.9'
231.2 81.7'
312.9 142.6' -0.72'

Mean -0.81

7 49 38
88 90'
7 44 45'
5 +2 +35'
12 47 20

7465.5328
7464.8268
+0.7060 ✓

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1906phae.proj...581w

Sept. 11, 1906

Index Right. II

53.3

7 59 30	138.8	85.5'		
	242.5	60.5'		
	303.0	146.0'	-0.65'	
	64.8		-0.66	
8 2 24	127.8	63.0'		
	232.3	81.7'		
	314.50	144.7'	-0.68'	

Index Left.

322.5

8 6 47	42.8	80.3'	
	154.3	59.1'	
	213.4	139.4'	-0.79'
	332.9		-0.76
8 10 6	33.0	60.1'	
	142.4	82.4'	
	224.8	142.5'	-0.72'

Mean -0.71

31	77	107'
7	64	42'
5	-2	+35'
13	7	17'

7465.5467
7464.5268
+0.7199

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1906phae.proj..581W

Sept. 11, 1906.

III

Index Left

	322.3		
8 20 18	42.3	80.0'	B
	155.0	58.8'	
	213.8	138.8'	- 0.80'
	332.5		-0.72
8 23 17	35.7	63.2'	
	141.2	83.9'	
	225.1	147.1'	- 0.63'

Index Right

	231.4		
8 27 6	316.6	85.2'	A
	63.5	64.4'	
	127.9	149.6'	- 0.58'
	242.0		-0.59
8 31 0	305.7	63.7'	
	52.7	84.8'	
	137.5	148.5'	- 0.60'

Mean - 0.66

	101	41'
8	25	25'
5	+2	+35'
13	28	0'

7465.5611
7464.8268
+0.7343

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1906phae.proj..584w

Sept. 11, 1906

Index Right

	232.6		
8 42 13	315.8	83.2'	
	60.8	65.3'	
	126.1	148.5'	-0.60'
	240.2		-0.58'
8 45 33	306.4	66.2'	
	51.8	85.2'	
	137.0	151.4	-0.55'

Index Left

	139.9		
8 49 10	226.1	86.2'	
	330.6	64.6'	
	35.2	150.8'	-0.56'
	154.0		-0.59'
8 55 0	214.5	60.5'	
	320.0	87.0'	
	47.0469	147.5'	-0.62'

	191 56'	
8	47 59'	
5	+2 +35'	
13	50 34'	

Mean -0.58

7465.5768
7464.8268
+0.7500 v

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1906phae.proj..581W

Sept. 11, 1906.

V

Index Left

142.6

9	2	35	229.3 8.6	86.0'	B
			331.9	64.0'	
			35.9	150.0'	-0.58'
			152.9		-0.56'
9	5	43	217.4	64.5'	
			320.2	86.8'	
			47.0	151.3'	-0.55'

Index Right

64.1

9	9	55	125.9	61.8'	A
			227.9	91.3'	
			319.2	153.1'	-0.51'
			49.8		-0.49'
9	13	7	138.1	88.3'	
			241.5	67.3'	
			308.8	155.6'	-0.47'

Mean -0.52'

29 140'
9 7 50'
5 +2 +35'
14 10 25'

7465.5906
7464.8268
+0.7638 v

1906phae.proj..581W

Sept. 11, 1906

VI

Index Right
63.5

9 18 40	128.1	64.3'	d
	230.1	88.2'	
	318.3	152.5'	−0.53'
	49.9		−0.52'
9 21 24	138.0	88.1'	
	241.2	65.7'	
	306.9	153.8'	−0.50'

Index Left
318.8

9 26 18	45.9	87.1'	
	153.2	62.8'	
	216.0	149.7'	−0.55'
	333.0		−0.52'
9 29 8	37.4	64.4'	
	139.2	90.8'	
	230.40	155.2'	−0.47'
9 94 90'			
9 23 52'			
5 +2 +35'			
14 26 27'			

Mean −0.52'

7465.6017
7464.8268
+0.7749 r

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1906phae.proj..581W

Sept. 11, 1906

Index Left VII

	317.2			
9 33 48	47.8	90.6'	B	9
	152.8	65.2'		
	218.0	155.8'	-0.46'	
	331.8		-0.48'	
9 36 57	36.6	64.8'		9
	140.5	89.7'		
	230.92	154.5'	-0.49'	

Index Right

	237.2			
9 41 22	311.5	74.3'	A	10 9
	48.7	90.8'		
	139.5	165.1'	-0.28'	
	226.5		-0.26'	
9 45 45	320.2	93.7'		10 9
	58.1	72.9'		
	131.0	166.6'	-0.25'	

Mean -0.37'

155 172'
9 38 88'
5 +2 +35'
14 42 3'

7465.6125
7464.8268
+0.7857

1906phae.proj..581w

Sept 11, 1906

VIII

Index Right

			236.3				
9	55	0	309.3	73.0′			
			46.3	95.0′			
			141.3	168.0′	−0.23′		
			225.9		−0.20′		
9	58	57	322.6	96.7′			
			58.0	73.8′			
			131.8	170.5′	−0.18′		

Index Left

			148.6				
10							
9	3	40	216.3	67.7′			
			316.9	95.1′			
			52.0	162.8′	−0.33′		
			137.2		−0.30′		
10							
9	7	28	231.9	94.7′			
			327.4	71.0′			
			38.4	165.7′	−0.27′		

Mean −0.25′

Not ledgered, or posted.

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1906phae.proj..581W

Sept. 11, 1906

	Index Left
	148.0
10 16 57	221.5
	319.0
	47.2
	137.7
10 22 15	231.9

Stopped by low altitude and clouds.

S.T. 22 12
R.A. +5 0
Dec. +2.0
P.A. 340
Sprocket -8.5 B
" -7.5 b

H's watch used for times
Hatch 2 m. 35 sec. slow

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1906phae.proj...581W

Sept. 12, 1906 (Wednesday).

7 15 Clouds.
ζ Ophiuchi. Phot. S. H. Obs. Bowie Rec.

17	7	+1.3
19	0	
+1	53	

7" bap used

7 30 Clouds in this region. I

Index Right.

48.8 ← var. dis

7 55 48	135.5	89.7'	A
	244.0	59.5'	
	303.5	149.2'	−0.59'

2 18	230.4 ~~62.3~~		−0.62'
8 ~~58 53~~	316.0 ~~26.9~~	85.6'	
	64.4 ~~+39.4~~	60.4'	
	124.8	146.0'	−0.65'

Index Left

	142.3		
8 6 35	223.1	80.8'	B
	337.2	55.3'	
	32.5	136.1'	−0.55'
	154.8		−0.58'
8 9 50	211.1	56.3'	
	325.4	77.6'	
	43.0	133.9'	−0.90'
		Mean	−0.75'

31	72	151	'
7	63	38	'
5	+2	+4	'
13	5	42	' = 7466.5456
			7466.5043
			+0.0413 ✓

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1906phae.proj..581W

Sept. 12, 1906

Index Left. II

143.8

8 16 58

222.2	78.4'	
335.3	57.2'	
32.5	135.6'	-0.86'

156.2 -0.88'

8 19 52

212.6	56.4'	
323.7	77.2'	
40.9	133.6'	-0.90'

Index Right

52.5

8 23 34

135.0	82.5'	
244.6	58.5'	
303.1	141.0'	-0.75'

64.0 -0.74'

8 26 2

124.4	60.4'	
232.0	82.0'	
314.0	142.4'	-0.73'

8 4 146

8 21 36

5 +2 +4

13 23 40

Mean -0.81'

~~7466.5581~~

~~7466.2959~~

~~0.2622~~

7466.5581

7466.5043 = comp.

+0.0438

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1906phae.proj..581W

Sept 12, 1906

~~Index~~ Right. III

51.8

8 33 6 134.0 82.2' A
245.2 55.8'
301.0 138.0' -0.81'

67.0 -0.81'

8 35 32 123.9 56.9'
231.8 81.2'
313.0 138.1' -0.81'

Index Left

335.6

8 39 18 30.0 54.4' B
145.0 78.5'
223.5 132.9' -0.92'

324.4 -0.95'

8 42 10 39.4 ~~40.80~~ 75.0'
149 66' 156.9 55.1'
8 37 32' 212.0 130.1' -0.98'
5 +2 +4'
13 39 36'

Mean -0.88'

~~7466.5692~~ 7466.5692
~~7466.2959~~ 7466.5043 = comp
~~.2733~~ +0.0649 ✓

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1906phae.proj..581W

Sept 12, 1906

Index Left IV

		337.0
8	48 28	30.2
		146.0
		223.0
		325.64
8	51 0	43.9
		158.0
		211.8

Clouds. Stopped by clouds

S. J. 20 54

S. A.

Sec.

P. A. 216.0 Ver 8

Sprocket -8.5 8

" -7.5 6

Reading of Sprocket and P. A pretty close as images were pretty near ~~together~~ when clouds came again. On account of clouds other readings not taken; region however identified before beginning.

Clouds now overspreading ~~the~~ whole sky, so that nothing further can be done

It's watch used for times tonight.
Watch 2 min 4 sec slow.

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1906phae.proj..581w

Sept. 13, 1906 (Thursday)

R X Herculis Phot. 3 ft. Obs. Bowie Rec.

18	16	+12.0
19	46	
1	30	

Index

9 | 0 Cleared somewhat suddenly after sunset but troubled continuously by southern scud which is steadily accumulating, no chance for anything further

1906phae.proj..581W

Sept. 14, 1906 (Friday)

Fourth Type Star +49° 41 Phot. 3 Hr. Obs Bowie Rec

24	34	+49.7
19	44	
4	50	
7	10	

8 0 0 Clouds

8 20 0 Clouds everywhere and continually trouble some cannot seem to make any headway apparently no chance for anything further.

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1906phae..proj..581W

Sept. 15, 1906 (Saturday)

R J Persei Phot. J H. Obs. Bowie Rec.

27	32
20	22
7	10
4	50

I

Index R & A

151.3 ← Comp. Star dis

9 1 40	217.8	66.5'	A
	339.1	48.6'	
	27.7	115.1'	+1.30'
	159.8		+1.30'
9 5 34	207.8	48.0'	
	330.5	66.9'	
	37.4	114.9'	+1.31'

Index L & B

56.6

9 10 10	129.1	72.5'	B
	244.8	55.8'	
	300.6	128.3'	+1.01'
	64.0		+1.04'
9 14 12	120.9	56.9'	
	239.0	69.4'	
	308.4	126.3'	+1.06'

Mean +1.17'

	30	96'
9	7	54'
5	+3	+56'
14	11	50'

7469.5916'

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1906phae.proj..581W

Sept. 15, 1906

Index L & B

57.8 II

9 28 18

129.0 71.2'
246.4 55.4'
301.8 126.6' +1.05'

66.6 +1.07'

9 31 48

119.9 53.3'
236.6 71.4'
308.0 124.7' +1.09'

Index Q & A

331.9

9 36 12

35.9 64.0'
158.6 49.2'
207.8 113.2' +1.34'

340.2 +1.32'

9 39 56

27.7 47.5'
149.2 67.5'
216.7 115.0' +1.30'

Mean +1.20'

134 134
9 33 64
5 +4 +12
14 38 16

7469.6099

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1906phae.proj..581W

Sept. 15, 1906

Index R+A

		331.7		III
9	55	0	35.8	64.1°
			160.0	48.6'
			205.6	112.7' +1.36'
			339.5	+1.34'
9	58	50	28.7	49.2'
			150.6	65.4'
			216.0	114.6' +1.31'

L+B

		239.5		
10	2	40	309.7	70.2'
			65.0	56.5'
			121.5	126.7' +1.05'
			244.5	+1.02'
10	5	56	301.9	57.1'
			58.7	71.9'
			130.6	129.0' +1.00'

38	120	146	
9	60	36	
5	+4	+29	
15	5	5	

Mean +1.18'

7469.6286 Stratch 4 m. 38 sec. slow at 10 : 16 East. Time

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1906phae.proj..581W

Sept. 15, 1906

Index L+B

		236.9		IV
10	18	23	305.3	71.4'
			65.6	54.5'
			120.1	125.9' +1.07' B
			247.1	+1.03'
10	23	0	303.3	56.2'
			57.2	73.3'
			130.X5	129.5' +0.99'

Index R+A

		150.6		
10	26	40	215.9	65.3'
			340.3	47.7'
			28.0	113.0' +1.35' A
			158.4	+1.29'
10	30	8	207.7	49.3'
			325.5	68.8'
			37.3	118.1' +1.23'

	97	71'
10	24	33'
5	+4	+44'
15	29	17'

Mean +1.16'

7469.6453'

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1906phae.proj..581w

Sept 15, 1906

Index R&A

		152.5		V
10	46	50	214.9	62.4'
			338.1	51.5'
			29.6	113.9' +1.33'
			158.0	+1.29'
10	50	15	209.2	51.2'
			329.6	66.1'
			35.7	117.3' +1.25'

Index L&B

		56.5		
10	54	8	130.3	73.8'
			246.5	55.5'
			302.0	129.3' +0.99'
			65.0	+0.98'
10	57	30	122.2	57.2'
			237.0	73.4'
			310.4	130.6' +0.97'
	209	103'		
10	51	71'		
5	+5	+0'		
15	57	21'		Mean +1.14'

7469.6649'

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1906phae.proj..581W

Sept. 15. 1906

Index L & B

56.4 VI

11 12 50 133.0 76.6'
246.0 57.4'
303.4 134.0' +0.90'

64.7 +0.91'

11 15 18 123.3 58.6'
237.2 74.0'
311.2 132.6' +0.92'

Index R & A

330.0

11 20 16 38.7 68.7'
156.5 51.9'
208.4 120.6' +1.18'

337.7 +1.12'

11 23 30 ~~30~~ 10.2 52.5'
146.0 73.5'
219.5 126.0' +1.06'

70 114'
11 17 58'
5 +5 +16'
16 23 14'

Mean +1.02'

7469.6827'

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1906phae.proj..581w

Sept. 15, 1906

S. J.	23h	37m	
H. A.	-3	42	As lantern was very dim sprocket was read with dif. probably sprocket correctly read but independently of this, region was thoroughly identified before beginning; both by charts, and also of taking transits.
Hea.	+45.9		
P. A.	359.7	Ver. B	
Sprocket	-2.5	B	
"	-1.5	b	

H's watch used for times tonight.
Hsatch 5m. 32 sec. slow. at
11h 44m E. st. Time.

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1906phae.proj..581W

Sept 17, 1905 (Monday)

α Ophiuchi		Phot. I Hr. Obs.		Bowl Rec.	
17	9	+1.3		7" / trap need.	
19	9				
2	0				

Index Right

		225.2 ~~4.8~~	var. dis.	I
7	26	34	320.5	95.7'
			62.5	66.9'
			129.4	162.6^ -0.33^
			240.1	-0.32^
7	29	11	308.4	68.3^
			47.4	95.1^
			142.5	163.4^ -0.32^

Index Left

			136.3	
7	34	46	230.0	93.7^
			331.5	62.6^
			34.1	156.3^ -0.45^
			152.5	-0.49^
7	38	6	216.1	63.6^
			319.5	88.5^
			48.0	152.1^ -0.53^

	127	97	^
7	31	69	^
5		+9	^
12	32	18	^

Mean -0.40^

7471, 5224 ^

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1906phae.proj..581w

Sept. 17, 1906

Index Left

		135.6 9.7		II
7	51	10	226.6	86.9 ^
			332.8	62.2 ^
			35.0	149.1 ^ −0.59 ^
			152.6	−0.66 ^
7	55	48	213.6	61.0 ^
			322.6	81.4 ^
			44.0	142.4 ^ −0.73 ^

Index Right

			62.1	
7	59	18	127.9	65.8 ^
			226.9	88.3 ^
			315.2	154.1 ^ −0.50 ^
			47.6	−0.48 ^
			140.0 1.7	94.1 ^
			241.9	61.1 ^
			303.0	155.2 ^ −0.47 ^

8	2	22	
29	167	98	^
7	56	70	^
5		+9	^
12	57	19	^

Mean −0.57 ^

7471.5398 ^

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1906phae.proj..581W

Sept. 17, 1906

III

Index Right

62.5

A

A	13	43	127.3	64.8 ^
			228.8	87.5 ^
			316.3	152.3 ^ −0.53 ^
			50.2	−0.54 ^
8	17	28	140.74	90.2 ^
			241.3	61.3 ^
			302.6	151.5 ^ −0.55 ^

Index Left

322.0

B

8	21	20	43.2	81.2 ^
			155.0	57.2 ^
			212.2	138.4 ^ −0.81 ^
			335.3	
8	23	56	33.4	58.1 ^ −0.78 ^
			142.5	83.7 ^
			227.0 6.2	141.8 ^ −0.74 ^

	74	147	^
8	18	67	^
5		+9	^
13	19	16	^

Mean −0.66 ^

7471.5551 ^

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1906phae.proj..581w

Sept. 17, 1906

Index Left

322.6

δ 37 30	39.9 ~~40.5~~	77.3	
	155.0	58.9	B
	213.9	136.2 − 0.85	
	334.9		− 0.85
δ 41 28	31.5	56.6	
	144.4	79.7	
	225.0 4.1	136.3 − 0.85	

Index Right

241.2

δ 47 50	304.2	62.0	A
	54.2	84.8	
	139.0	147.8 − 0.62	
	232.0		− 0.62
δ 50 40	315.5	83.5	
175 148	63.6	63.5	
δ 43 82	127.1	147.0 − 0.63	
5 +9			
13 44 31			

Mean − 0.74

7471.5726

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1906phae.proj..581W

Sept. 17, 1906

Index Right

		243.2		V
9	6	22	301.4	58.2 ^
			52.8	86.6 ^
			139.4	144.8 ^ −0.68 ^
			234.0	−0.76 ^
9	10	23	310.7	76.7 ^
			67.4	60.1 ^
			127.5	136.8 ^ −0.84 ^

Index Left

			155.7	
9	14	8	213.2	57.5 ^
			324.6	77.8 ^
			42.4	135.3 ^ −0.87 ^
			149.0	−0.92 ^
9	17	0	221.7	72.7 ^
			334.9	57.1 ^
			32.0	129.8 ^ −0.98 ^

	47	53 ^	
9	11	58 ^	
5		+9 ^	
14	12	7 ^	Mean −0.84 ^

7471.5918 ^

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1906phae.proj...581W

Sept. 17, 1906

Index Left

		155.8		VI
9	29	39	214.7	58.9^
			325.0	73.8^
			38.8	132.7^ −0.92^
			147.4	−0.90^
9	33	38	222.0 1.8	74.4^
			333.2	60.2^
			33.4	134.6^ −0.88^

Index Right

			55.0	
9	39	20	135.1	80.1^
			245.3	56.3^
			301.6	136.4^ −0.85^
			64.4	−0.88^
9	42	48	123.6	59.2^
			236.2	73.8^
			310.0	133.0^ −0.92^
	143	145^		
9	35	81^		
5		+9^		
14	36	30^		

S.J. 22^h 2^m
H.A. +4 50
Dec. +2.0
P.A. 214.0 Ver B
Sprocket −8.5 B
" −7.5 b

7471.6086^

Mean −0.89^

Impossible to follow var. any longer with advantage. Region getting rather low, sky a little hazy, last group labored and difficult.

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1906phae.proj..581W

Sept. 17, 1906

☉ beti	Phot. Hr; Hr. Obs. Bonn Rec
26 4	−2.5
22 24	
3 40	
8 20	

10 52 0

Index L & S

333.8 ← var. dis	(B)
38.2	64.4″
146.6	79.3″
225.9	143.7″ −0.70″
326.5	−0.70″
45.4	78.9″
153.6	64.9″
218.5	143.8″ −0.70″

Index R & A

245.2	(A)
307.0	61.8″
56.2	79.6″
135.8	141.4″ −0.75″
235.6	−0.72″
315.1	79.5″
64.0	64.0″
128.0	143.5″ −0.70″

Mean −0.71″

11	1	27	
21	53	27	″
10	56	44	″
5		+9	″
15	56	53	″

7471.1645 ″

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1906phae.proj...581W

Sept. 17, 1906

S.J. 23^h 5^m
H.A. −3 7
Dec. −4.0
P.A. 88.2
~~Sprocket~~

H' a watch used for times tonight.
Watch 9 sec. slow.

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1906phae.proj..581W

Sept. 18, 1906. (Tuesday)

ν Serpentis Phot J H. Obs. Bowie Rec.

18 9 -15.6
19 19
1 10

I

Index R & B

57.4 ← Comp Star dis

7 44 0	131.0	73.6^	A
	243.7	57.8^	
	301.5	131.4^	+0.95^
	69.0		+1.00^
7 46 44	123.1	54.1^	
	238.0	72.9^	
	310.9	127.0^	+1.04^

Index L & A

330.0

7 49 57	38.84	68.4^	B
	158.9	49.0^	
	207.9	117.4^	+1.25^
	339.8		+1.24^
7 53 13	28.9	49.1^	
	148.5	69.6^	
	218.1	118.7^	+1.22^

Mean +1.12^

192 114^
7 48 28^
5 +23^
12 48 51^

7472.5337
7469.0999
+3.4338

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1906phae.proj...581w

Sept. 18, 1906.

Index Lx A II

		333.8		
7	59 55	38.0	64.2 ^	B
		159.5	47.5 ^	
		207.0	111.7 ^	+1.38 ^
		341.5		+1.38 ^
8	3 12	26.8	45.3 ^	
		150.5	65.9 ^	
		216.4	111.2 ^	+1.39 ^

Index R x B

		237.0		
8	9 0	306.9	69.9 ^	A
		69.5	50.0 ^	
		119.5	119.9 ^	+1.19 ^
		249.4		+1.16 ^
8	12 28	300.64	51.0 ^	
		57.8	72.2 ^	
		130.40	123.2 ^	+1.12 ^

31	83	95	^
7	65	69	^
5		+23	^
13	6	32	^

Mean +1.27 ^

7472.5462
7469.0999
+3.4463 ✓

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1906phae.proj..581W

Sept. 18, 1906.

Index R & B III

241.5

8 19 37

308.1	66.6	
69.0	49.0	A
118.0	115.6	+1.29

248.8 +1.24

8 23 38

299.9	51.1	
60.0	68.9	
129.78.9	120.0	+1.19

Index L & A

151.5

8 29 58

213.8	62.3	
340.8	46.3	B
27.1	108.6	+1.45

161.5 +1.44

8 34 28

207.86	46.1	
331.4	63.1	
34.5	109.2	+1.44

105 161

8 26 55

5 +23

13 27 18

Mean +1.34

7472.5606

7472.5534

+0.0072

1906phae.proj..581w

Sept. 15, 1906.

Index L+A

IV

152.9

δ 44 6 — 215.9 — 63.0 ^

341.7 — 46.1 ^ — 8

27.8 — 109.1 ^ — +1.44 ^

162.7 — +1.52 ^

δ 48 18 — 206.9 — 44.2 ^

334.5 — 58.6 ^

33.1 — 102.8 ^ — +1.59 ^

Index R+8

62.6

δ 52 54 — 126.0 — 63.4 ^

247.9 — 51.5 ^ — A

299.4 — 114.9 ^ — +1.31 ^

69.5 — +1.34 ^

δ 59 10 — 119.0 — 49.5 ^

242.4 — 63.2 ^

305.6 — 112.7 ^ — +1.36 ^

Mean +1.43 ^

203 88 ^

δ 50 67 ^

5 +23 ^

13 51 30

7472.5774

7472.5534 v

+0.0240 v

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1906phae.proj..581W

Sept. 15, 1906

Index R & S
63.3
Stopped by low altitude and haze.

Sky rather murky especially for some distance above the horizon; stars higher up fairly bright. The last group was rather difficult and all the groups were taken slowly and with the greatest possible care. Observations considered good from the extreme care exercised.

S.J.	21	17
H.A.	+3	3
Dec.	−15.2	
P.A	158.9	
Sprocket	−1.5 A	
"	−0.5 S	
"	0.0 b	

9
9
10
10
38
9
5
15
74

R X Herculis Phot. J H. Obs. Bowie Rec

18.	16	+12.0
21	46	
3	30	

For measurements see fol pages

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1906phae.proj..581w

Sept. 15, 1906

A
I

Index Above

		342.0 ← var. dis		
9	56	14	28.2	46.2″
			166.0	35.0″
			201.0	81.2″ −2.16″
			346.2	−2.10″
9	58	48	23.5	37.3″
			159.3	47.9″
			207.2	85.2″ −2.05″

Index Below

			247.0	
10	2	12	300.7	53.7″
			72.0	42.0″
			114.0	95.7″ −1.76″
			254.0	−1.78″
10	4	47	293.8	39.8″
			66.7	54.9″
			121.6	94.7″ −1.79″

38	120	121	″
9	60	30	″
5		+23	″
15	0	53	″

Means −1.94″

7472.6256

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1906phae.proj..581W

Sept. 18, 1906

Index Below

	246.3		
10 8 53	300.5	54.2'	B
	73.5	39.5'	
	113.0	93.7'	−1.82'
	253.8		−1.76'
10 11 52	293.9	40.1'	
	64.1	58.5'	
	122.6	98.6'	−1.69'

Index Above

	158.6		
10 15 30	207.6	49.0'	A
	345.4	37.6'	
	23.0	86.6'	−2.01'
	165.1		−2.00'
10 18 24	202.3	37.2'	
	339.2	49.8'	
	29.0	87.0'	−2.00'

52 159'

10 13 40'

5 +23'

15 14 3'

Mean −1.85'

7472.6347

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1906phae.proj..581w

Sept. 18, 1906

Index Above III

~~+58.0~~

~~10 23 22~~ ~~205.3~~ A

164.5

10 28 33 201.7 37.2^

338.5 52.1^

30.6 89.3^ -1.93^

156.2 -1.93

10 31 10 208.9 52.7^

345.9 36.7^

22.6 89.4^ -1.93^

Index Below ⊘

74.5

10 35 2 114.1 39.6^

244.6 55.8^

300.4 95.4^ -1.77^

65.0 -1.70^

10 36 56 123.0 58.0^

251.3 43.3^

294.6 101.3^ -1.62^

130 101 ^

10 32 55 ^

5 +23 ^

15 33 18 ^

Mean -1.82^

7472.6481

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1906phae.proj..581W

Sept. 15, 1906

Index Below IV

74.0

10 48 48 114.80

245.9

Clouds Stopped by clouds

S. T. 23 00

H.A +4 33

Dec +130

C.A 151.7 Ver S

Sprocket -4.5 S

" -3.5 b

H's watch used for times

Watch 23 sec slow

Turned on Saturn. Saturn very close to meridian and so, altitude very good; seeing superb on this object. Seeing very steady, sky becoming hazy and air perfectly quiet. The view tonight is the finest H. ever had of the planet. Covers 135, 270, 540, and 1150 used with eminent success; two sats. on the fol. side and two on the preceding side of the planet seen, also the division in the ring at the ansae. Ring easily traced right across the ball, although the ring is not tipped much to the line of sight; belts also on Saturn easily seen. Air and seeing unusually steady.

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1906phae.proj..581W

Sept. 19, 1906. (Wednesday)

R X Herculis Phot. 3 H. Obs. Soirie Res.

18 16 +12.0
19 36
1 20

Index R & B I

66.2 var. dis

7 54 32 123.0 2.5 56.3 A
254.0 39.9
293.9 96.2 -1.75

74.0 -1.76
7 57 9 114.4 40.4
246.5 55.2
302.0 1.7 95.6 -1.77

Index L & A

337.5
8 1 6 31.0 53.5 B
163.0 38.1
201.1 91.6 -1.87

345.4 -1.88
8 3 34 22.7 37.3
155.6 53.6
209.2 90.9 -1.89

30 115 81
7 58 65
5 +45
12 59 50

Mean -1.82

7473.5416

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1906phae.proj..581W

Sept. 19. 1906.

Index L & A

blondes, stars gone

II

8 15 0			
	336.8		8
8 40 16	31.5	54.7	
	162.7	40.5	
	203.2	95.2	-1.78
	342.8		-1.76
8 42 48	25.8	43.0	
	156.5	53.7	
	210.2	96.7	-1.74

Index R & S

	244.0		
8 46 0	304.3	60.3	A
	70.5	46.4	
	116.9	106.7	-1.49
	251.6		-1.50
8 48 30	297.0	45.4	
	63.4	60.4	
	123.8	105.8	-1.52

	176	94
8	44	24
5		+45
13	45	9

Mean -1.63

7473.5730

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1906phae..proj..581W

Sept. 19, 1906

Index R & B

			243.5		
8	55	5	303.2	59.7	S
			71.8	44.7	
			116.5	104.4	
			251.9		
8	58	4	296.4	44.5	
			63.7	61.6	
			125.3	106.1	

Index Lalande

154.6

9 9 18 blonde

Reject above

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1906phae.proj..581W

Sept. 19, 1906.

Index L & A

336.6

9	23	0	33.2	51.6 ^
			162.1	41.6 ^
			203.7	93.2 ^ -1.70 ^

343.2 -1.70 ^

9	25	46	24.6	41.4 ^
			154.3	57.4 ^
			211.7	98.8 ^ -1.69 ^

Index R & B

238.4

9	29	28	305.1	66.7 ^
			71.2	45.2 ^
			116.4	111.9 ^ -1.37 ^

250.2 -1.39 ^

9	32	20	295.5	45.3 ^
			62.6	65.1 ^
			127.7	110.4 ^ -1.41 ^

	109	94	^
9.	27	38	^
5		+45	^
14	28	23	^

Mean -1.54 ^

7473.6031

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1906phae..proj..581W

Sept. 19, 1906.

Index Q & B

IV

241.6

9 38 32 — 304.3 — 62.7 ^ — A

71.5 — 45.4 ^

116.9 — 108.1 ^ — −1.46 ^

250.6 — −1.42 ^

9 41 32 — 296.8 — 46.2 ^

60.2 — 65.7 ^

125.9 — 111.9 ^ — −1.37 ^

Index Lac A

~~152.8~~

~~44 17~~ — ~~214.0~~

blends ↗ 162.5

9 49 38 — 207.0 — 44.5 ^ — B

332.5 — 60.6 ^

33.1 — 105.1 ^ — −1.53 ^

153.6 — −1.58 ^

9 52 54 — 212.3 — 58.7 ^

341.8 — 42.4 ^

24.2 — 101.1 ^ — −1.63 ^

180 156 ^

9 45 39 ^

5 +45 ^

14 46 24 ^

Mean −1.50 ^

7473.6156

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1906phae.proj..581W

Sept. 19, 1906.

		Index L & A		
		163.7		V
10	0	38	204.7	41.0 ^
			335.9	56.7 ^
			32.6	97.7 ^ −1.71^
			154.9	−1.70^
10	3	12	212.2	57.3 ^
			343.4	41.2 ^
			24.6	98.5 ^ −1.69^
		Index R & B		
			73.4	A
10	6	13	115.2	41.8 ^
			243.2	60.7 ^
			303.9	102.5 ^ −1.60^
			64.2	−1.57^
10	9	14	125.1	60.9 ^
	18	77	251.3	43.7 ^
10	4	49	295.0	104.6 ^ −1.54^
5		+45		
15	5	34 ^		Mean −1.64^

7473.6289

S.T. 22h 20m
H.A. +3 54
Dec. +13 0
R.A. 150.7
Sprocket −4.5 B
" −3.5 b

Sky becoming decidedly more cloudy throughout. Impossible to continue further on the variable. Apparently no chance for anything further. Troubled

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1906phae..proj...581W

Sept. 19, 1906

throughout evening by light floating cloud, but all possible care exercised. Troubled especially by clouds and low altitude in last group.
Last group 1/3 wt.
H's watch used for times tonight.
Hatch 45 sec. slow

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1906phae.proj..581W

Sept 21, 1906 (Friday)

Iris	Phot J. H. Obs. Bowie Rec	
19	57.3	-13.21
19	54.	-14.0
19	54	-14.0
19	39	
	15	
11	45	

Star a prec. star b by 7 secs and is 12' south of it

Star c prec. star a by 5 sec. " " 8' south of it

Iris follows star b by 6.5 sec. and is 5.9 south of it

Star d follows star b by 55 sec and is about 1' south of it. Star d is comp. star

$*b = -13° \surd\surd 67$ (9.7)

b comp. Star = $-13° 5573$ (9.3)

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1906phae..proj...581W

Sept. 21, 1906

Iris.

Index R & A

I

52.9 ← Iris dis

7 56 26	134.5	81.6'		A
	242.0	64.3'		
	306.3	145.9'	-0.66'	
	62.1		-0.60'	
8 0 7	126.9	64.8'		
	230.2	87.2'		
	317.4	152.0'	-0.54'	

Index L & B

	326.3			
8 4 44	41.7	75.4'		B
	153.9	57.2'		
	211.1	132.6'	-0.92'	
	334.0		-0.86'	
8 7 30	32.0	58.0'		
	143.1	80.7'		
	223.8	138.7'	-0.80'	

31	67	107	'
7	61	72	'
5	+1	+25	'
13	3	37	'

Mean -0.73'

7475.5442

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1906phae.proj..581W

Sept. 21, 1906

Index L & B

325.6

8 16 48

42.6 77.0'

154.6 58.9'

213.5 135.9' -0.86'

334.5 -0.85'

8 21 26

31.6 57.1'

144.6 79.4'

224.0 136.5' -0.84'

Index R & A

231.0

8 26 20

315.2 84.2'

62.3 61.5'

129.8 145.7' -0.66'

240.2 -0.66'

8 30 7

303.9 63.7'

51.3 82.3'

133.6 146.0' -0.65'

Mean -0.76'

93 101

8 23 40

5 +1 +25

13 25 5

7475.5591

1906phae..proj..581W

Sept. 21, 1906

VII

Index Rect

230.1

δ 38 22 315.9

61.0

123.7

242.8

δ 41 45 306.6

56.1

blonds

9 30 0 Sky still cloudy

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1906phae.proj..581W

Sept. 21, 1906

Index

~~232.5~~ 1.0

S. J. 21 53

H. A +1 51

Dec -12.9

P. A. 251.5

Sprocket -1.5 A

" -0.5 B

" +0.4 b

9

9

9

9/5

14

14

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1906phae.proj..581w

Sept. 21, 1906.

Iris again.

Index R & A

III

53.2

9 46 0	134.0	80.8'	
	241.4	64.6'	
	306.0	145.4'	-0.67'
	60.0		-0.58'
9 48 48	127.6	67.6'	
	229.7	86.5'	
	316.2	154.1'	-0.50'

Index L & B

	321.0		
9 55 15	44.0	83.0'	
149 63 '	152.4	61.6'	
9 49 61 '	214.0	144.6'	-0.68'
5 +1 +25 '			
14 51 26 '			

Blonds again, groups cannot be completed.

(10.0.0) Reject.

1475.6190

Mean -0.63'

It's watch used for times tonight

Watch 1 mn. 25 sec. slow

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1906phae.proj..581W

Sept. 24, 1906 (Monday)

Iris Phot. I St. Obs. Bouvier Rec

19	58	-13.1
19	40	
	18	
11	42	

Same comp. star used as on Sept 21 =
-13° 5573 (9.3)

Iris prec. comp. star by 3.5 sec. and is 7.'6 south of it.

Index Right

48.5 ← Iris dis.

7 30 2	132.7	84.2	
	241.0	62.2	
	303.2	146.4	-0.65

61.4 -0.70

7 33 13	120.8	59.4	
	230.7	82.0	
	312.7	141.4	-0.75

Index Left

320.5

7 37 5	42.0	81.5	
	151.0	64.4	
	215.4	145.9	-0.66

330.2 -0.68

7 39 45	32.3	62.1	
	141.2	82.3	
	223.5	144.4	-0.69
		Mean	-0.69

	139	65	
7	34	61	
5	+2	+38	
12	37	39	

7478.5261

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1906phae.proj..581W

Sept. 24, 1906

Index Left

321.2

7	46	54	42.3	81.1	II
			152.0	59.0	
			211.0	140.1	-0.77 B
			333.5		-0.76
7	49	48	32.0	58.5	
			139.4	83.2	
			222.6	141.7	-0.74

Index Right

233.5

7	53	54	313.0	79.5	
			61.9	60.0	A
			121.9	139.5	-0.78
			243.4		-0.80
7	57	2	302.1	58.7	
	205	158	51.9	78.5	
7	51	54	130.4	137.2	-0.83
5	+2	+38			
12	54	32			

Mean -0.78

7478.5378

Light cloud noticed in this region after completing above groups. Clouds very thin and probably first groups not affected

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1906phae.proj..581W

Sept. 24, 1906

Index Right III

	233.0		
8 9 8	310.9	77.9	
	63.1	58.3	
	121.4	136.2	−0.85
	242.0		−0.80
8 13 8	302.3	60.3	
	52.8	80.3	
	133.1	140.6	−0.76

Index Left

	139.3		
8 19 0	226.5	87.2	
	329.5	64.0	
	33.5	151.2	−0.55
	150.6		−0.59
8 23 0	215.1	64.5	
64 16	320.4	82.8	
8 16 4	43.2	147.3	−0.63
5 +2 +38			
13 18 42		Mean	−0.70

Troubled by light clouds in above group

7478.5547

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1906phae.proj..581w

Sept. 24, 1906

Index Left

		139.5		IV
δ	30 25	228.80	88.5 ^	
		329.4	64.8 ^	8
		34.2	153.3 ^ −0.51 ^	
				−0.52 ^
		148.2		
δ	35 0	215.9	67.7 ^	
		319.34	84.6 ^	
		44.0	152.3 ^ −0.53 ^	

Index Right

		51.0		
δ	40 12	134.41	83.1 ^	A
		240.4	62.4 ^	
		302.8	145.5 ^ −0.66 ^	
				−0.65 ^
		60.3		
δ	43 43	124.7	64.4 ^	
	148 80 ^	231.0	82.3 ^	
δ	37 20 ^	313.3	146.7 ^ −0.64 ^	
5	+2+38			
13	39 58 ^			

Mean −0.58 ^

Light clouds a little thicker and more troublesome in above groups.

7478.5694

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1906phae.proj..581W

Sept. 24, 1906

Index Right

9 0 0 blonds now a little thicker in this region V
stars now too faint to observe

~~50.5~~

~~9 6 12~~ ~~135.5~~ A

blonds thicker

233.0

9 34 53 315.0 82.0^

61.0 61.3^

122.3 143.3^ −0.71^

241.5 −0.70^

9 38 8 203.2 61.7^

50.6 82.9^

133.5 144.6^ −0.68^

Index Left

141.0 B

9 42 16 227.0 86.0^

329.6 66.3^

35.9 152.3^ −0.53^

147.0 −0.55^

9 45 16 215.3 68.3^

82.2^

320.8 150.5^ −0.57^

43.0

159 93^

9 39 68^

5 +2 +38

14 42 46^ Somewhat troubled by thin clouds in above group

Mean −0.62^

7478.6131

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1906phae.proj..581w

Sept. 24, 1906.

Index Left

			139.4		VII
10	0	27	227.5	88.1 ^	
			330.6	64.0 ^	8
			34.6	152.1 ^	-0.53 ^
			150.4		-0.54 ^
10	3	48	215.2	64.8 ^	
			319.1	86.6 ^	
			45.7	151.4 ^	-0.55 ^

Index Right

			50.4		
10	7	50	134.0	83.6 ^	
			242.4	61.0 ^	
			303.4	144.6 ^	-0.65 ^ A
			60.0		-0.64 ^
10	10	47	123.4	63.4 ^	
			229.5	85.0 ^	
			314.5	148.4 ^	-0.61 ^

	20	172	^
10	5	43	^
5	+2	+38	^
2.15	8	21	

Mean -0.59 ^

7478.6308 Sky clearer in above group

1906phae.proj..581W

Sept. 24, 1906

Index Right VII

		54.0		
10	22	32	133.4	79.4'
			239.9	64.3'
			304.2	143.7' −0.70' A
			62.4	−0.68'
10	26	0	123.6	61.2'
			228.0	85.0'
			313.0	146.2' −0.65'

Index Left

		319.0		
10	29	58	44.8	85.8'
			152.5	62.1'
			214.6	147.9' −0.62' B
			330.6	−0.58'
10	33	34	34.7	64.1'
			137.5	87.8'
			225.3	151.9' −0.54'
	110	124'		
10	27	61'		
5	+2	+38'		
15	30	39'		

Mean −0.63'

7478.6462

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1906phae.proj..581w

Sept 24 1906

Index Left

VIII

		319.2		
10	48	2	43.3	84.1 ^
			149.0	67.0 ^
			216.0	151.1 ^ −0.55 ^
			330.0	−0.54 ^
10	50	40	33.9	63.9 ^
			137.4	88.9 ^
			226.3	152.8 ^ −0.52 ^

Index Right

			51.1	
10	55	18	131.5	80.4 ^
			241.6	61.4 ^
			303.0	141.8 ^ −0.74 ^
			61.4	−0.72 ^
10	58	14	123.2	61.8 ^
			230.7	82.3 ^
			313.0	144.1 ^ −0.69 ^

	211	74	^
10	52	64	^
5	+2	+38	^
15	55	42	^

Mean −0.63 ^

7478.6637 Sky pretty clear in above group but region getting a little low.

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1906phae.proj..581W

Sept. 24, 1906

S. T. 23^h 36^m
H. A. +3 34
Dec. -12. 8
P. A. 185. 0 Ver. ☌
Sprocket +0.5 A
" +1.5 B
" +2.0 b

It's watch used for times tonight
~~Watch~~ 2 mn. 38 sec. slow

14
14
14
14

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1906phae.proj..581w

Sept. 24. 1906.

B.+C. 1142.

13 43 14.V
44 14.4

B. 394.

13 44 0.0
44 0.0

Dis. Jup. I Phot. & M. Obs. Bowie Rec
to Jup.
comp. with nearer of two sats. (after eclipse)
on prec. side = Sat. III

			14	14	35	84.5^	233.2
14	15	4^		"	54	82.1^	317.7
		+45^				166.6^	
14	15	49^		15	14	+0.3^ 83.3^	234.0
				"	31		316.1
				18	40	86.8^	231.5
14	19	14^		19	6	84.0^	318.3
		+46^				170.8^	
14	20	0^		"	23	+0.2^ 85.4^	233.0
				"	45		317.0

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1906phae.proj..581W

Sept. 24, 1906

			14	20	6	84.4^ 233.7	
14	20	35^		"	23	86.5^ 318.1	3
		+46^				170.9^	
14	21	21^		"	41	+0.2^ 85.4^ 232.5	
				21	11	319.0	
				"	30	84.1^ 233.4	
14	21	59^		"	51	85.4^ 317.5	
		+46^				169.5^	4
14	22	45^		22	11	+0.2^ 84.8^ 233.2	
				"	24	318.6	
				"	44	232.5	
14	23	10^				86.0^	
		+46^		23	4	83.8^ 318.5	
14	23	56^		"	14	169.8^	5
				"	37	+0.2^ 84.9^ 233.4	
				24	35	317.2	
						231.5	
14	25	17^				87.0^	
		+46^		25	16	87.7^ 318.5	
14	26	3^		"	30	174.7^	6
				"	46	+0.1^ 87.4^ 231.3	
				26	4	319.0	
						231.5	
14	26	46^				86.3^	
		+46^		"	29	85.7^ 317.8	
14	27	32^		27	10	172.0^	7
				"	19	+0.2^ 86.0^ 232.3	
				"	32	318.0	
						233.1	
14	28	7^				84.9^	
		+47^		"	53	87.0^ 318.0	
14	28	54^		28	22	171.9^	8
				"	40	+0.2^ 86.0^ 231.5	
14	29	53^		29	6	+0.1^ 87.1^ 232.0	

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Sept. 24. 1906.

14	30	14^ 14	29	27	+0.1^	87.6^	319.1	
	30	28^	"	41	+0.1^	88.0^	231.5	
	31	23^	30	36	+0.2^	84.7^	319.5	
	31	39^	"	52	+0.3^	82.2^	234.8	
	31	49^	31	2	+0.4^	79.5^	317.0	
	31	58^	"	11	+0.6^	74.4^	237.5	
	32	7^	"	20	+0.7^	72.4^	311.9	
	32	14^	"	27	+0.8^	70.0^	239.5	
	32	25^	"	38	+0.9^	67.4^	309.5	
	32	35^	"	48	+1.8^	46.9^	242.1	
	32	44^	"	57	+1.9^	45.9^	289.0	
	32	57^	32	10	+1.5^	53.4^	243.1	
	33	34^	"	47	+1.9^	45.7^	296.5	
	33	42^	"	55	+2.0^	43.6^	250.8	
	33	52^	33	5	+2.6^	34.2^	294.4	
	34	2^	"	15	+3.3^	25.0^	260.2	
	34	13^	"	26			285.2	
	34	23^	"	36			Susp.	
			"	59			not seen later	

Limits of Vis.

			34	10				259.9
14	35	12^	35	5		23.1^		
		+47^	"	30		21.9^		283.0
						45.0^		266.0
14	35	59^	36	4	+3.5^	22.5^		287.9

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1906phae.proj..581W

Sept. 24, 1906

Owing to the rather sharp cold and rapidly rising barometer the seeing was rather blurry As Sat. approached Jups and began to vary in light, the boiling disc of Jup. came to and at times overlapped ~~the~~ Sats causing a delay in the settings. Settings were made slowly and with all possible care observer waiting for Jup. to cease boiling 7

B. & L. 1182			B. 394		
14	53	10.5	14	54	0.0
14	54	10.5	14	55	0.0

" " preceding eclipse.

From	13h	43m	26s	to	13h	52m	9s	add	42.	mean.
"	13	52	9.	"	14	0	52.	"	43.	"
"	14	0	52.	"	14	9	35.	"	44.	"
"	14	9	35.	"	14	18	18.	"	45.	"
"	14	18	18.	"	14	27	2.	"	46.	"
"	14	27	2	"	14	35	45.	"	47.	"
"	14	35	45.	"	14	44	28.	"	48.	"
"	14	44	28.	"	14	53	11.	"	49.	"

7
7
5
12
74

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1906phae.proj..581W

Sept. 25, 1906 (Tuesday)

Iris Phot. J & Obs Bowie Ser.

19 58 -13.1
19 48
10
11 50 −13° 5573 (9.3)

Same b. Guard as last night =

Iris follows b comp. Star by 17.0 sec and is 7'.8 south of it

Index R & B

228.0 ← Iris dis A

7 44 40 316.0 5.5 87.5"
62.5 61.4"
123.9 148.9" −0.60"

240.6 −0.64"

7 49 48 303.1 62.5"
51.5 82.0"
133.5 144.5" −0.68"

Index L & A

139.8

7 54 22 224.2 84.4"
331.9 61.3" B
33.2 145.7" −0.66"

149.0 −0.62"

7 58 38 213.4 64.4"
205 14.8" 319.0 84.9"
7 51 52" 43.9 149.3" −0.59"
5 +3 +4"
12 54 56"

Mean −0.63"

7479.5381

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1906phae.proj..581W

Sept 25, 1906

Index L+A

		140.3		II
8	7	30	225.7	85.4
			334.4	57.6
			32.0	143.0 -0.71
			151.3	-0.69
8	13	24	212.2	60.9
			319.1	84.4
			43.5	145.3 -0.67

Index Q+B

			53.0	
8	18	38	132.6	79.6
			241.4	62.1
			303.5	141.7 -0.74
			62.2	-0.73
8	22	0	122.0	59.8
	60	92	228.5	83.1
8	15	23	311.6	142.9 -0.72
5	+3	+4		
13	18	27		

Mean -0.71

7479.5545

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1906phae.proj..581W

Sept. 25, 1906.

Index R & B

III

52.0

δ 25 36 — 134.5 3.8 — 81.8^ — A

241.0 — 60.9^

301.9 — 142.7^ — −0.72^

62.5 — −0.77^

δ 33 18 — 122.0 — 59.2^

231.9 — 78.4^

310.3 — 137.6^ — −0.82^

Index L & A

322.0

δ 37 48 — 42.6 — 80.6^

150.6 — 61.0^

211.6 — 141.6^ — −0.74^ — B

332.2 — −0.74^

δ 41 40 — 34.0 — 61.8^

80.5^

142.1 — 142.3^ — −0.73^

222.46

	139	142	^
δ	34	80	^
5	+3	+4	^
13	38	24	^

Mean −0.76^

7479.5684

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1906phae.proj..581W

Sept 25, 1906

Index L & A

IV

			322.5		
8	53	52	42.6	80.1'	8
			152.8	60.1'	
			212.9	140.2'	-0.77'
			333.7		-0.76'
8	58	8	33.2	59.5'	
			140.5	82.2'	
			222.7	141.7'	-0.74'

Index R & B

			231.8		
9	3	41	310.0	78.2'	A
			63.2	58.2'	
			121.4	136.4'	-0.85'
			241.4		-0.81'
9	9	0	300.8	59.4'	
			51.4	80.6'	
			132.0	140.0'	-0.77'

34	123	101
8	60	70
5	+3	+4
14	4	14

Mean -0.78'

747 9.5862

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1906phae.proj..581w

Sept. 25, 1906

Index R & B

231.3

9 -24 50

312.5	81.2'	
63.0	59.0'	
122.0	140.2'	-0.77'

242.8 -0.73'

9 29 22

304.4	61.6'	
51.4	82.4'	
133.8	144.0'	-0.69'

Index I & A

142.3

9 35 7

224.0	81.7'	
331.7	62.8'	
34.5	144.5'	-0.68'

151.8 -0.68'

9 41 18

212.3	60.5'	
321.0	83.5'	
44.5	144.0'	-0.69'

Mean -0.70'

	129	97	'
9	32	39	'
5	+3	+4	'
14	35	43	'

7479.6086

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1906phae.proj..581W

Sept. 25, 1906

Index L & A

VI

		138.4	
10	0	0	225.0 86.6°
			331.0 62.0°
			33.0 148.6° -0.60°
			150.8 -0.60°
10	2	48	215.5 64.7°
			320.9 83.8°
			44.7 148.5° -0.60°

Index R & B

		51.6	
10	7	51	134.2 82.6°
			241.0 61.6°
			302.6 144.2° -0.69°
			62.5 -0.66°
10	12	54	122.2 59.7°
	21	153°	228.9 86.8°
10	5	53°	315.7 146.5° -0.64°
5	+3	+4°	
15	8	57°	

Mean -0.63°

7479.6312

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1906phae.proj..581W

Sept. 25, 1906

Index R & B

~~319.2~~

49.7 VII

10 34 40 135.7 86.0^

240.3 64.5^ A

304.8 150.5^ −0.57^

61.5 −0.58^

10 39 22 125.5 64.0^

229.4 85.1^

314.5 149.1^ −0.59^

Index L & A

321.0

10 46 7 45.1 84.1^ B

150.6 66.0^

216.6 150.1^ −0.57^

330.6 −0.58^

10 49 55 35.0 64.4^

135.8 85.2^

22 ~~5.86~~ 4.0 149.6^ −0.58^

10 168 124^

10 42 31^

5 +3 +4^

15 45 35^

Mean −0.58^

7479.6567

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1906phae.proj..581W

Sept. 25, 1906.

S. T. 23h 38m
Ho. A. +3 36
Dec. -12.9
R. A. 333.2
Sprocket -0.4 A
" +0.5 B
" +1.4 b

H's watch used for times
Watch 3 m, 4 sec. slow

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1906phae.proj..581W

Sept. 26, 1906. (Wednesday)

α X Herculis Phot J H. Obs Bowie Rec

15 16 +12.0
20 . 2
1 46

7 33 0 Clouds in this region
7 58 0 "
8 5 0 Still cloudy

Too many clouds, abandoned.

Fourth Iapetus start 36° 3243 Phot J H. Obs Bowie

15 40 +37.4
21 00
2 20

8 36 0 Clouds ~~practically~~ thick everywhere
8 50 0 Thickly clouded everywhere evidently no chance for anything further

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1906phae.proj..581W

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1906phae..proj..584W

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