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1921phae.proj..648C

12-inch

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Tuesday June 7, 1921

L.C. Obs 12" Tele HSK Rec.
R. Coron. 15-4428
PA = B

13.37	190.7	Comp with 72	
	288.7	98.0	Comp standard
	9.8	92.5	
	102.3	190.5	
		360.0	
		169.5	−0.20
	193.6		
	282.8	89.2	−0.05
	14.4	85.4	
	99.8	174.6	+0.10
			7.20
	PA = A		Mean = +0.06
			7.26
	285.5		
	10.8	85.3	
	106.6	86.5	
	193.1	171.8	+0.16
	289.8		
	→ 13.2	83.4	+0.18
	106.3	85.5	
13.41	191.8	168.9	+0.21

13.39 Since last used Phot. T has been overhauled and the double image prisms recemented. This is a great improvement — images more clearly defined and better seen.
Get extra Reduction Tables. Eros.

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2

June 7–1921

	Ball 103	H 3451
G M.T.	14 57 00.0	14 57 57.0

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1921phae.proj...648C

Wed June 8 - 1921

2849

Ecl 12" Polar

B R Coronae 15h 42m 2d

13 55.5 17.4 (Comp * dim Phot T.
97.2 198
190.0 194
280.2 169.2 + 0.20

19.3 + 0.20
97.2 179
196.3 225
278.2 160.4 + 0.37

A

107.4 Mean = +0.18
193.2 164 Range = 0.38
281.3 91.0
(100.0) 12.3 clds 177.4 + 0.05

105.2 + 0.09
193.2 88.0
285.8 25.0
14 3.0 10.2 173.0 + 0.13

Bothered by clds but
got one observation.

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1921phae.proj..648C

4

$\tau^2 849.6$

June 8 – 1921

14 35 Z Scorpii 16002 est <13.0

X Scorpii 16022 est <13.1

W Scorpii 16059 est <12.8

R X Scorp 16052 est
Too low in Heat

W Oph 16160 est 11.0

Y Oph 16211 2 est 10.6

S S Herc 16280 est 12.8

T Oph 16281 5 est <13.0

15 00 S Oph 16286 Est (0)
if correctly identified.

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1921phae.proj...648C

Tuesday June 14, 1921

285°

L.C. 660 12" Polar HSK, Rec,
R Coronae 154428
PA = B

13.36

comp star dec.

193.1		
281.3	88.2	
15.0	81.4	
96.4	169.6	+0.20
194.4		
274.4	80.0	+0.40
20.9	68.9	
89.8	148.9	+0.60

PA = A

297.2		
360.8	63.6	
110.2	73.1	
183.3	136.7	+0.84
292.6	69.2	+0.87
361.8	64.5	
116.1	133.7	+0.90
180.6		

7.2
Mean = +0.64
7.84

13.40

13.38
7 5
13.33

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1921phae.proj..648C

June 14, 1921

R Coronae

2.

PA = A

13.47

292.6		
362.2	69.6	
116.4	66.0	
182.4	135.6	+0.86
291.6		
363.6	72.0	+0.81
115.0	68.2	
183.2	140.2	+0.77

PA = B

24.0		
97.2	73.2	
198.8	82.5	
281.3	155.7	+0.46
23.0		
93.3	70.3	+0.58
204.2	73.0	
277.2	143.3	+0.71

7.2

Mean = +0.70

7.90

13.51

13.49

- 5

13.44

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1921phae.proj...648C

June 14, 1921

δ Librae

PA = B

14.4	33.3	PHOT Van dis.		1.
	82.8	49.5		
	214.8	44.6		
	259.4	94.1	-1.81	
	34.2			
	83.8	49.6	-1.76	
	214.4	48.8		
	263.2	98.4	-1.70	

6.8 s-

PA = A

Mean = -1.80

5.0 s-

	125.5		
	172.1	46.6	
	301.6	47.2	
	348.8	93.8	-1.81
	122.8		
	172.4	49.6	-1.84
	305.9	42.5	
14.8	348.4	92.1	-1.86

14.06

- s

14.01

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1921phae.proj..648C

8

June 14, 1921

δ Librae 2.

14.6

PA = A

126.2		
170.8	44.6	
303.2	48.2	
351.4	92.8	-1.84
123.0		
172.8	49.8	-1.75
299.8	50.0	
349.8	99.8	-1.66

6.85⁻

mean = -1.70

5.15

PA = B

214.2		
261.6	47.4	
31.6	57.7	
83.3	99.1	-1.68
214.2		
265.0	50.8	-1.66
33.3	50.0	
83.3	100.8	-1.64

14.10

14.08

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1921phae.proj...648C

June 14, 1921

△ Librae

	PA = B			3.
14.20	212.3			
	263.0	50.7		
	30.4	50.7		
	81.1	101.4	-1.62	
	210.2			
	262.2	52.0	-1.58	
	30.6	53.4		
	84.0	105.4	-1.53	
				6.8 s-
	PA = A		mean =	-1.52
	300.0			5.33
	353.2	53.2		
	118.4	53.7		
	172.1	106.9	-1.49	
	298.8			
	350.8	52.0	-1.47	
	118.3	56 s-		
14.24	174.8	108.5	-1.45	
14.22				

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1921phae.proj..648C

10

Jan 14, 1921

Δ ~~Spec~~ Librae

PA = A

4.

14.32	304.0		
	352.4	48.4	
	123.8	50.0	
	173.8	98.4	-1.70
	303.0		
	352.4	49.4	-1.71
	122.4	48.0	
	170.4	97.4	-1.72

6.85

mean = -1.62

5.23

PA = B

	32.6		
	84.4	51.8	
	213.6	47.2	
	260.8	99.0	1.68
	28.9		
	85.8	56.9	-1.54
	210.6	53.8	
14.36	264.4	110.7	-1.40

14.34

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1921phae.proj...648C

Jan 14, 1921

△ Librae

	PA = B			5.
14.38	32.6			
	82.4	49.8		
	212.4	49.0		
	261.4	98.8	-1.69	
	33.3			
	81.6	48.3	-1.74	
	214.2	46.2		
	260.4	94.5	-1.80	
				6.83 —
	PA = A		mean =	-1.68
				5.17
	126.0			
	173.8	47.8		
	306.8	47.2		
	354.0	95.0	-1.78	
	125.2			
	176.0	50.8	-1.63	
	299.8	56.6		
14.42	356.4	107.4	-1.48	
14.40				

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1921phae.proj..648C

June 14, 1921

△ Librae

	PA = A			6.
14.50	123.2			
	172.2	49.0		
	301.6	48.8		
	350.4	97.8	-1.71	
	121.4			
	177.4	56.0	-1,62	
	302.3	49.3		
	351.6	105.3	-1.53	
				6 & r
	PA = B		mean =	-1.61
	214.0			5.24
	261.4	47.4		
	29.8	54.2		
	84.0	101.6	-1.62	
	212.0			
	264.2	52.2	-1,60	
	30.6	51.0		
14.54	81.6	103.2	-1.58	
14.52				
		S/m. 3.8		

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1921phae.proj...648C

Wednesday June 15, 1921

2856

L.C. Obs. 12" Polar H.S.K. Rec.

R Coronae 154428

PA = B

13.54	13.6	Comp star dis	
	102.6	89.0	
	197.2	77.4	
	274.6	166.4	+0.26
	13.6		
	95.9	82.3	+0.34
	200.8	75.4	
	276.2	157.7	+0.43

PA = A

	101.8		
	194.2	92.4	
	284.3	89.9	
	14.2	182.3	
		360.0	
		177.7	−0.04
	105.8		
	191.2	85.4	−0.01
	282.6	93.3	
13.58	15.9	178.7	+0.02

7.2
Mean = +0.17
7.37

13.56

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1921phae.proj..648C

June 5, 1920

R Coronae

PA = A

13.59	103.2			2.
	195.5	92.3		
	285.5	89.3		
	14.8	181.6		
		360.0		
		178.4	-0.03	
	102.6			
	195.6	93.0		
	284.0	90.8	-0.05	
	14.8	183.8		
		360.0		
		176.2	-0.07	12
	PA = B			mean = +0.08
	194.2			7.28
	279.8	85.6		
	15.4	85.0		
	100.4	170.6	+0.16	
	194.8			
	278.4	83.6	+0.20	
	15.6	83.8		
14.04	99.4	167.4	+0.24	
14.02				

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1921phae.proj..648C

June 15, 1921

δ Librae

	PA = B			1.
14.8.30	29.8	Var dis.		
	82.8	53.0		
	210.0	48.2		
	258.2	101.2	−1.63	
	31.3			
	82.6	51.3	−1.61	
	210.4	51.4		
	261.8	102.7	−1.59	
				685
	PA = A		mean =	−1.48
				5.37
	121.4			
	179.8	58.4		
	296.4	59.1		
	355.5	117.5	−1.25	
	122.3			
	175.8	53.5	−1.35	
	297.2	55.1		
14.12	352.3	108.6	−1.45	
14.10.15				

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1921phae.proj..648C

June 15, 1921

δ Librae

PA = A

				2
14.17	122.6			
	175.8	53.2		
	301.8	51.4		
	353.2	104.6	-1.54	
	121.4			
	175.8	54.4	-1.47	
	298.4	56.3		
	354.7	110.7	-1.40	
				6.85
	PA = B		mean = -1.60	
				5.25
	214.8			
	261.4	46.6		
	32.2	50.6		
	82.8	97.2	-1.73	
	213.8			
	262.6	48.8	-1.72	
	32.2	49.0		
14.21	81.2	97.8	-1.71	
14.19				

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1921phae.proj..648C

June 15, 1921

δ Librae

PA = B

14.25	216.8	Reject see below.		3.
	256.1	39.3		
	33.8	39.5		
	73.3	78.8	~~-2.23~~	
	212.8			
	252.6	49.8	~~-1.95~~	
	32.6	49.6		
	82.2	99.4	-1.67	

PA = A

	300.6			6.85
	353.3	52.7		mean = -1.54
	117.8	58.6		5.31
	176.4	111.3	-1.39	
	298.2			
	349.9	51.7	-1.42	
	118.8	57.0		
14.29	175.8	108.7	-1.45	

14.27 PA = B

	35.5		
	81.2	45.7	-1.65
	210.8	55.4	
	266.2	101.1	-1.63

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June 15, 1921

δ Librae

	PA = B			4
14 .39	35.8			
	81.0	45.2		
	215.8	46.0		
	261.8	91.2	-1.88	
	32.7			
	84.7	52.0	-1.82	
	213.6	43.4		
	257.0	95.4	-1.77	
				6 obs.
	PA = A		mean =	-1.70
	120.8			5.15
	172.4	51.6		
	303.3	49.5		
	352.8	101.1	-1.63	
	121.0			
	173.8	52.8	-1.58	
	302.0	52.0		
14.43	354.0	104.8	-1.54	

14.41

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1921phae.proj..648C

June 15, 1921

δ Librae

PA = A

14.45	155.8			
	203.2	47.4		
	330.0	50.8		
	20.8	98.2	-1.70	
	147.7			
	207.7	60.0	-1.50	
	328.4	55.6		
	24.0	115.6	-1.29	

PA = B

	241.2			
	291.8	50.6		
	60.8	51.4		
	112.2	102.0	-1.61	
	240.4			
	295.2	54.8	-1.54	
	57.3	53.0		
14.50	110.3	107.8	-1.47	

	6.85	
mean =	-1.52	
	5.33	

14.47.30

Region very near bright moon.

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1921phae.proj..648C

Thurs June 16-921

12" Polar

~~RC~~ Clh

17 50 RCor. 15442d ext 7.1

17.4 5-3 SS Cygni 21384s ext 11.7

Wrinche Comet

19 8 23 RY Sagitt 19033 ext 8.0

bothered by clouds

Obs. in 15" 2 29

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1921phae.proj..648C

Friday June 17, 1921

12" Polar

L. C. Obs. Ind. B. R Cor. Mon 154428 L.C. Jr. Rec.

13-44-10

222.0	Comp. Star dis Plot T.		
300.4	78.4		
47.8	77.2		
125.0	155.6	+ 0.47	
225.4	77.6		+0.56
303.0	68.4		
54.6	146.0	+ 0.65	
123.0			
Ind. A.			+ 0.49
320.7	~~75.8~~	Comp* = 2.2	
36.6	78.4	Irregular = 7.69	
139.8	154.2	+ 0.49	
218.2			
318.0	81.2		+ 0.42
39.2	80.2		
138.0	161.4	+ 0.35	
218.2			

13-47-41

" 51

13 45 56

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1921phae.proj..648C

June 17 - 1921

δ Librae # Plate I

13-58-16

	241.1	Ind. B.	
	291.8	Var. dis.	I
	57.4	50.7	
	111.3	53.9	
		104.6	− 1.54
	242.2	42.9	−1.78
	285.1	43.3	
	65.4	86.2	− 3.02
	108.7		
Ind. A			Mean = −1.76
	333.2	45.6	G.A. −
	18.8	50.7	Var = 5.09
	152.6	96.3	−1.75
	203.3		
			−1.76
	338.3	45.3	
	23.6	51.8	
	151.0	97.1	1.73
14-3-25	202.8		

1 41
11 00 52

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1921phae.proj..648C

June 17-1921

δ Librae

14-12-30	324.8	Ind. A		II
	26.0	61.2		
	147.2	68.0		
	205.2	129.2	−1.00	
			−1.14	
	~~226.6~~	~~69.0~~		
	25.6	~~57.7~~		
	149.7	~~+46.7~~	−1.27	
	207.4	116.7		
	Ind. B.			Mean = −1.64
	65.4	43.8		6 As
	109.2	40.5		Mopra 5.21
	246.6	84.3	−2.07	
	287.1			
			−2.14	
	64.2	44.0		
	108.2	35.3		
	245.3	79.3	−2.22	
14-16-40	290.6			

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1921phae.proj..648C

June 17, 1921.

δ Librae III

14-21-10

236.8	Ind. B.	
291.8	55.0	
58.8	52.6	
111.4	107.6	— 1.47
		1.44
238.4	53.2	
291.6	53.6	
59.2	109.8	— 1.42
102.8		

Ind. A		Mean	1.58
331.7	49.5		6.85
20.2	52.0		5.27
153.6	101.5	— 1.62	
205.6			
		1.72	
331.3	47.5		
18.8	46.6		
153.8	94.1	— 1.81	
200.4			

14-24-39

5 49
14 22 54

Results readjusted at end of group III

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1921phae.proj..648C

June 17 – 1921

δ Libræ Ind. A

14–29–45⁻ 210.4 53.6
214.0 50.0
29.4 103.6 — ~~0.90~~
79.4 — 1.54

— 1.56

207.8 52.0
254.8 52.2
27.8 104.2 — 1.55⁻
80.0

Ind. B. Mean — 1.54
6 45⁻
Magnitude 5.27

300.4 49.0
349.4 50.5⁻
177.3 99.5⁻ — 1.67
167.8

— 1.60

296.7 52.5⁻
349.2 52.5⁻
115.5 105.0 — 1.54
14–33–20 168.0

Ice 31 32

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1921phae.proj..648C

D-866

Sat. June 25 1921

L.C. Obs.		F.T.C. Rec.
(15 44 28)	R Coronae	est 6.4
14 40	G.M.T.	
	R Herculis 160118	Est 9.1
	R. S. Herc. 162807	Est. 10.4
	U. Serpentis 160210	Est 10.0
	Fairy Light	
	W. Herc. 163137	Est. 9.2
	RV Herc. 165631	Est 12.0
	At 14:52:50 3rd magnitude meteor	
15.04	S S Cygni 213843	Est 11.8

Watched 10 minutes—
only 1 meteor seen towards East.

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1921phae.proj..648C

Wed. July 13 - 1921

LCObs 12" Polar L.Cyl. Rec.

13-30 RCor. Bor 15^4428 est 6.0 :
S.S. Cygni 21 38 43 est Var. susp. 11.0 ±
observation very difficult in foggy sky.
var. not at max.

Victoria Corbett for but not found. Sky too poor.

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1921phae.proj..648C

Sat. July, 16, 1921.

L. C. Obs. 12" Polar. "L.C.J. Rec.

Lights

13-18-0 R. Coronae 15-4428 Est. 6.0

13- -0 S.S. Cygni 21 38 43 Est. < 10.0

Moon very bright and considerable haze

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1921phae.proj...0486

Thurs. July 21-1921

LC-Obs. 12" Polar H.T.C Rec.

13.0 R. Coronae 154428 Est. 6.2

Victoria (12) Pos (1853) ~~17h 33m 5 −11° 34'~~

13 50 asteroid not found in predicted place unless it is in juxtaposition with −11.°4456 (A.5), but this seems somewhat improbable.
Wrong position

(1853) 17 26 − 11.°1

Asteroid found near the 6.0
at 17 26 − 11.1 // the 6.0 = the comp ★
B

I

14 20 45.6 (Comp ★ dia.
62.2 16.6
224.6 18.6
263.2 35.2 +4.05

45.8 18.8 +4.06
64.6 16.0
225.6 34.8 +4.08 Mean = +3.96
241.6

A
314.8 21.6 315.8 19.4
336.4 23.6 335.2 19.5
14 14.0 131.6 15.2 + 134.4 38.9 + 3.89
156.2 3.50 153.9 3.66

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1921phae.proj..648C

July 21-1921

Victoria. 2

		A		
14	18.0	314.3		
		334.8	20.5	
		133.1	19.7	
		152.8	40.2	+ 3.76
				× 3.74
		315.9		
		335.3	19.4	
		133.8	21.6	
		155.4	41.0	+ 3.71
		B		Mean: + 4.02
		45.1		
		61.6	16.5	
		226.4	14.0	
		240.4	30.5	+ 4.31
				+ 4.30
		47.0		
		62.2	15.2	
		226.2	17.4	
14	25.0	243.6	32.6	+ 4.22

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1921phae.proj..648C

July 21 - 1921.

Victoria. 3

IC 32?

	B		
	468		
	64.1	17.9	
	220.4	23.2	
	243.6	40.5	+3.74
			+3.82
	45.0		
	63.4	18.4	
	225.7	19.1	
	244.8	37.5	+3.91

Mean = +3.74

	A		
	134.8		
	153.9	19.1	
	315.6	21.0	
	336.6	40.1	+3.76
			+3.66
	131.8		
	154.0	22.2	
	312.8	22.0	
IC 40.6	334.8	44.2	+3.55

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1921phae.proj..648C

July 21–1921

	A		
1446.4	310.9		
	335.2	24.3	
	133.2	22.6	
	155.8	46.9	± 3.41
	314.7		± 3.46
	336.2	21.5	
	132.2	23.2	
	157.4	44.7	± 3.52
	B		Mean = ± 3.69
	45.0		
	63.0	18.0	
	226.2	16.8	
	243.0	34.8	± 4.04
	45.2		
	66.0	20.8	± 3.92
	224.6	19.4	
1452.6	244.0	40.2	± 3.76

Moon too bright & too much fog to continue

Obd Dec 11.4

stars badly visible

H.E. = 0.31 W at 18.0 st.

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1921phae.proj..648C

July 26 - 1921

55 Cygni 21 3 43

15-02 est 11.8 barely seen in tel.
est difficult & only small wt.

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1921phae.proj..648C

Tues. July 26-1921

L.C. Clb. 12" Polar

13 50 R Coronae 15444 est 6.2

13 52 SS Cygni 21343 est 11.0

Victoria Clear RX

Index B Same Comp * as on the 21st

14 5.0 241.8 < Comp * = 6.1 and also I

25 7.4 15.6

61.2 160

77.2 31.6 + 4.29

242.2 31.2 + 4.32

261.0 18.8

63.2 12.0

75.2 30.8 + 43.5

Index A

15 2.0 30.1

166.7 14.1 Mean = + 4.40

332.0 13.0

345.0 27.7 + 45.0

29.0

149.9 + 4.40

166.0 16.9

333.3 13.3

14 12.9 346.6 30.2 + 4.39

17.3

14 8.6

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1921phae.proj..648C

July 26 - 1921

Victoria. II

	A			
14 14.8	149.2			
	166.8	12.6		
	332.8	16.0		
	346.8	33.6	+4.13	
	150.2		33.1	+4.18
	166.4	16.2		
	330.3	16.6		
	346.7	32.6	+4.22	
	B		32.4 mean	= +4.23
	58.6			
	79.2	20.6		
	341.6	15.1		
	256.7	35.7	+4.02	
			31.8	+4.28
	61.8			
	77.2	15.4		
	243.2	12.6		
14 21.2	255.8	28.0	+4.55	
36.0				
14 (8.0				

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1921phae.proj..648C

July 21 - 1921

B Victoria II

14 25.5 60.8
77.2
244.2
256.2

16.6
1 20
28.4 + 452

29.0 + 448

61.0
77.3
243.1
256.4

16.2
13.3
29.5 + 446

28.6 Mean + 451

A
333.2
346.3
151.8
166.6

13.1
14.8
27.9 + 456

28.1

3324
345.3
151.4
166.8

+ 454

12.9
15.4
28.3 + 453

14 31.9
14 28.7

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1921phae.proj...648C

July 21–1921

IV

A

14 36.4 332.6
344.8 12.2
150.4 15.4
165.8 27.6 + 45.9

28.0 + 4.56

333.0
345.9 12.9
15.16 15.6
16.72 28.5 + 4.52

B 29.4 Mean = 4.45

242.8
257.1 14.3
61.6 16.8
78.4 31.1 + 4.32

30.8 + 4.34

243.1
257.2 14.1
60.0 16.4
14 42.8 76.4 30.5 + 4.37
14 39.6

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1921phae.proj..648C

July 26 - 1921

Victoria

	B			V
14 50.2	242.0			
	254.4	12.4		
	62.2	15.2		
	77.4	27.6	+ 4.59	
	242.0		+ 4.57	
	256.8	14.8		
	62.4	13.3		
	75.7	28.1	+ 4.55	

Mean = + 4.42

	A		
	151.8		
	167.0	15.2	
	329.8	16.6	
	346.4	31.8	+ 4.27
	150.2		+ 4.28
	166.6	16.4	
	331.6	15.2	
14 56.8	346.8	31.6	+ 4.29
14 53.5			

Victoria has normal number close to the 6 1 therefore observ is pointed of the identification of 21st of Comet. Too close for Plot T

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1921phae.proj..648C

Wednesday July 27 - 1921

L.C. Obs. F.C.C. Rec.

13
14 1340 Victoria

a		
152.2		
167.4	15.2	
333.4	13.4	
346.8	28.6	+4.51
151.8		+4.63
165.5	13.7	
333.6	11.9	
345.5	25.6	+4.75
B.		Mean = +4.72
63.6		
72.4	8.8	
243.2	15.6	
258.4	24.4	+4.86
61.9		
74.4	12.5	+4.91
243.0	13.2	
13 14, 18, 50 256.2	25.7	+4.72

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1921phae.proj..648C

July 26 - 1921

Victoria B. II

13.22.30	~~64.2~~		
	74.9	(0.)	
	243.1	128	
	253.9	253.5	+ 494
	64.1		488
	75 1	110	
	242.2	139	
	256.1	249	+481
	a.		
	331.6		468
	344.1	125	
	152.1	148	
	166.9	273	+ 461
	331.8		
	346.4	146	+ 448
	150.4	162	
13.27.20	166.6	308	+435

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1921phae.proj..648C

July 27 - 1921

Victoria

A-

13 32.50	332.9			
	345 2	12.3		
	150 4	15.5		
	165 9	27.8	+ 4.57	
	331 8		+ 4.54	
	345 9	14.1		
	149 9	14.3		
	164.2	28.4	+ 4.52	

B.

	240 2			
	256 6	16.4		
	62 1	15.1		
	77 2	31.5	+ 4.30	
	241.6		+ 4.26	
	256.8	15.2		
	57.8	17.2		
13 37.20	77.0	32.4	+ 4.23	

LL. 4.40

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1921phae.proj..648C

July 27 1921

Victoria

B

13:39:15 241.2
256.3 15.1
62.2 15.6
77.8 30.7 + 4.35

242.2 X.26
256.9 14.7
60.1 18.7
78.8 33.4 + 4.17

A + 4.35
151.9
167.2 15.3
330.1 15.8
345.9 31.1 + 4.32

151.4 Y.44
166.6 15.2
334.0 12.8
13:44:5 346.8 28.0 + 4.55

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July 27 - 1921

Victoria

	a		
13.49.45	151.2		
	166.8	15.6	
	330.2	15.0	
	345.2	306	+ 4.36
	149.8		+ 4.29
	168.0	18.2	
	330.9	14.3	
	345.2	325	+ 4.22
	78.		
	62.1		+ 4.22
	78.0	15.9	
	240.8	17.2	
	258.0	33.1	+ 4.19
	59.7		+ 4.18
	77.8	18.1	
	240.7	16.5	
13.54.40	257.1	346	+ 4.09

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July 27–1921

Victoria

	73.			VI.
14:7:10	60 0			
	76.6	16.6		
	242.6	15.2		
	257.8	31.8	+427	
	60 6			+43X
	76.8	16.2		
	243.3	13.9		
	257.2	30.1	+440	
	a.			
	333.2			+438
	345.2	12.0		
	158 8	16.2		
	167.0	28.2	+45.4	
	332 1			438
	346 8	14.7		
	149 7	18.1		
14:12:40	167 8	32.8	+421	

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July 27 - 1921

Victoria

A. VII

14:16:30	330.0		
	346.8	168	
	150.6	158	
	166.4	326	+ 422
	330 2		
	345-5	15.3	42X
	150 5-	16.9	
	167 4	32.2	+ 426
	B.		
	242 2		+4.39
	231.8	9.6	
	62.0	168	
	78.8	26 4	+ 468
	242.2		454
	256.1	139	
	61.1	160	
14 21 20	77.1	29.9	+ 441

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July 27 – 1921.

Victoria

VIII

B.

14.25.30	2422	133 ✓	
	2555	163 ✓	
	607	29.6 ✓	+4.43
	770		
			+4.42
	2420	152 ✓	
	2572	148 ✓	
	632	30.0 ✓	+4.60
	780		
	a		+4.47
	1505	163 ✓	
	1668	132 ✓	
	3320	29.5 ✓	+4.44
	3452		
	1506	138 ✓	-4.52
	1644	13.5 ✓	
	3309	27.3 ✓	+4.61
14 30 15	3444		

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July 27 - 1921

Victoria

a

14:37:40	150.8	~~+66~~	
	1674	~~+96~~	16.6
	3324		14.8
	~~+520~~	347.2	31.4 + 430
	15.20		
	168.0		16.0
	3312		16.2
	3474		32.2 + 425

β.

60	0	
77	8	
241	2	
256	1	
60.8		
76.1		
2401		
14.43.0	2564	

IX

	420
Mean	+ 421
17.4	
14.9	
32.3	+ 421
	4.25
15.3	
16.3	
31.6	+ 4.29

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July 27 - 1921

Victoria



	B.		
14:45:40	61 2	1.65	
	77 7	15.0	
	242 0	31.5	
	237 0		+ 4 30
	61.4		+ 4 36
	78.0	16.6	
	243 4	13 0	
	236.4	29.6	+ 443
	a.		Mean 4.36
	332 2		
	345 2	13.0	
	130 4	15.6	
	166 .0	28.6	+ 45 1
	330 4		
	347 0	16.6	+ 4 35
	150 2	16.4	
14 49 40	166.6	33.0	+ 419

Mt Victoria

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1921phae.proj..648C

Mon Aug 8 - 1921

L.C. Obs. 12" Polar

Victoria. 17 29 - 11.1

13 10 R Cor Bor 15 42 20 ext 6.2

13 12 S S Cyg 21 38 43 ext 11.7

Victoria: Phot R

Too faint with Observer blurred eye - looked for bright comet near Sun tonight - to obs. Victoria

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1921phae.proj..648C

Tues Aug 9 - 1921

LC Obs 12" Polar

12 57 Recon. Bor 13442 f 6.2 = est

SS Cyg 2138+43 Est 11.7

R Can Ven 134440 est 6.5

RR Vir 13598 est 11.7

Z Vir 14052 est too low

S Boot 14095 est 10.1

RS Vir 14220 5 est 11.8

Z Boot 14011 3 est 12.8

R Boot 14322 7 est 10.9

V Libra 14341 est too low

U Boot 14478 est 10.8

13 40 Nova Cyg III 19555 3 est Nova 9.7

.4 (8.4)4(8.7)0 (9.1) 6 (9.6)

reestimated

(8.4) 3 (9.1) 1 (8.7) 7 (9.1)

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1921phae.proj...648C

Aug 9 – 1921.

Nova Cyg. Comp A2. Plate I.

P.a. B the 8.7 with 8.4

13 44.0 18.9 < comp A – 8.4 & 4 others.

	88.8	> 0.9	
	199.6	68.2	
	267.4	139.1	+ 0.79
	18)		
	93.3		+ 0.74
	200.2	746	
	265.2	650	
		139.6	+ 0.78
	Pa=a		+ 0.64
	107.8		8.6
	186.6	> 88.8	9.04
	285.0	> 61	
	361.6	154.9	+ 0.44
	107.8		
	182.8	> 50	+ 0.50
	287.4	778	
13 50.4	364.2	152.0	+ 0.53

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1921phae.proj..648C

Aug. 9, 1921.

A 9.1 with 8.6

13 54.4
102.2
193.8 91.6
276.2 92.2
370.4 184.8
176.2 −0.07

104.3
193.8 89.5
276.6 89.2
365.8 178.7 +0.02

Mean = +0.24
8.4
864

B

99.8
191.4 91.6
278.2 88.8
367.0 180.4
179.6 −0.01

B

196.6
232.4 35.8
136 100
93.6 157.8 +0.46

1978
274.0 76.2 +0.52
15.2 73.6
14 29 88.8 149.8 +0.58

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1921phae.proj..648C

Wed Aug 10-1921.

RCOb 12" Polar

1304 SS Cygni 21 38 43 est 11.9

R T Librae 15 00 1 est 12.0 low
in haze

Y Librae 15 06 0 est 11.7

S Serp 15 17 4 est 8.6

X Coron 15 45 36 est 11.9

V Coron 15 45 39 est 10.1

R Herc 16 01 1 est 10.5-

R Serp 15 46 15- < 12.4
Very hazy here

T Coronae 15 55 56 d 3.6 f

Z Cor 15 52 9 est 10.9

S S Herc 16 20 7 est 10.9

W Oph 16 16 07 est 11.4 - of seen
Cmb not seen

S S Oph 16 52 03 est 9.0

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1921phae.proj..648C

Aug 10-1921

E Sep. 160210 ext 11.2

W Con. 161138 ext 11.6

W Here (16313) ext ?

14 10 R ? Here 170627 <11.5

Sky very cloudy & Hazy.

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1921phae.proj..648C

2 2 9 1 7.5

Mon Aug. 15 - 1921

L.C. Obs 12" Polar

Moon bright.

13 07 R Cor. 154428 est 6.3

13 09 SS Cyg. 213843 est 11.8

S Standard Region No. Bf

S Cor #3 with R 20h + 45.3

Index B

13 21 20

1270	<	*3 dis.	I
1722		45.2	
3023		49.0	
3512		94.2	+ 180
1258			
1718		46.0	+ 182
3059		46 3	
3522		92.3	+ 185

Index A Mean = + 1.69

2130		
2619	49.9	
3220	53.8	
8558	103.7	+ 1.45
2127		+ 156
2642	51.5	
3553	48.0	
8333	99.5	+ 167

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Aug 15 – 1921

B 8

A 3 with 8

13 28 50

2140		
2668	52.8	
344	49.4	
83.8	102.2	+ 1.60

II

2148		+ 1.56
2638	49.0	
31.2	56.6	
87.8	105.6	+ 1.52

B Mean = 1.56

3032		
3546	51.4	
1242	53.0	
177.2	104.4	+ 1.55

3029		+ 1.56
3528	49.9	
123.2	54.0	
177.2	103.9	+ 1.56

13 33 40

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Rup 15 = 1921

B 3 curtains II

13 35 20	304.7		
	352.1	47.4	
	123.4	52.4	
	175.8	99.8	+1.66
	302.9		+1.62
	352.3	49.4	
	123.4	53.4	
	176.8	102.8	+1.59

A Mean = +1.54

	31.2		
	84.8	53.6	
	213.3	53.0	
	266.6	106.6	+1.50
	29.8		+1.47
	84.3	54.5	
	211.4	54.7	
13 40 20	266.1	109.2	+1.44

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58

Ref 15-19-21

A 3 with 8 IV

13 41 30

29.9		
85.8	45.9	
207.2	59.0	
266.2	114.9	± 1.31
31.0		
88.4	57.4	± 1.36
211.4	53.0	
264.4	110.4	± 1.42

B

$\sigma_{mean} = \pm 1.55$

123.2		
174.2	51.0	
304.8	66.6	
351.4	97.6	± 1.12
125.4		± 1.74
172.7	47.3	
303.3	78.3	
351.6	95.6	± 1.77

13 46 50

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1921phae.proj..648C

Aug 15-1921

	B	3 with δ	V
13 50 00	126.2		
	172.2	46.0	
	305.8	44.4	
	351.2	90.6	+1.90
			+1.82
	125.0		
	175.2	50.2	
	304.4	46.4	
	350.8	96.6	+1.74
	A		Mean = +1.66
	211.8		
	266.1	54.3	
	27.7	48.1	
	85.8	102.4	+1.60
	209.8		+1.50
	265.5	55.7	
	320	54.6	
13 55 20	86.6	110.3	+1.41

above 5 groups taken without any attempt to reduction between groups.

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1921phae.proj..648C

~~April~~
August 15–19 21

A

14 07 30	207.6		
	267.2	59.6	
	27.4	60.6	
	88.0	120.2	+1.19
	212.2		+1.21
	269.7	57.5	
	26.4	60.8	
	87.2	118.3	+1.23

B

Mean = +1.48

	306.9		
	350.7	43.8	
	186.2	45.8	
	172.0	89.6	+1.92
	363.8		+1.93
	353.8	50.0	
	122.3	55.0	
14 13 00	177.2	105.0	+1.54

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1921phae.proj...648C

Aug 15 – 1921

B

14 13 30	30 5.7		
	35 2.8	457	
	122.8	540	
	176.8	1014	+ 1.63
	30 1.6		+ 1.66
	35 2.4	508	
	124.8	482	
	173.0	990	+ 1.68

VII

Mean = + 1.44

A

	32.7		
	87.6	547	
	205.8	645	
	260.3	1192	+ 1.21
	29.8		+ 1.22
	88.8	590	
	209.8	594	
14 18 40	269.2	1184	+ 1.23

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1921phae.proj..648C

Aug 15 – 1921

VIII

	a			
14 1920	28.0			
	88.4	60.4		
	210.8	57.4		
	266.2	115.8	+1.29	
			+1.24	
	29.2			
	88.0	58.8		
	209.8	60.9		
	270.7	119.7	+1.20	
	B		Mean = +1.43	
	1236			
	1738	50.2		
	3020	50.7		
	3527	100.9	+1.63	
			+1.62	
	1229			
	1770	54.1		
	3040	68.0		
14 24.10	3520	102.1	+1.61	

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1921phae.proj...648C

Aug 15–1921

B

IX

14 25-30 127.1

176.8 49.7

301.3 50.5

351.8 100.2 + 1.65

124.8 + 1.62

177.4 52.6

303.3 69.7

353.0 102.3 + 1.60

Mean = +1.47

a

215.2

266.6 51.4

29.8 52.8

88.6 110.2 + 1.41

209.8 + 1.32

268.9 59.1

29.8 59.0

14 30 40 88.8 118.1 + 1.23

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1921phae.proj..648C

Aug 15–1921

a

X

14 31 40	211.0		
	271.4	60.4	
	31.4	53.4	
	84.8	113.8	+ 1.33
	209.8		7 1.27
	269.8	60.0	
	27.4	59.4	
	86.8	119.4	+ 1.21

B

Mean = + 1.44

304.5		
35 26	48 1	
120.6	52 0	
~~+27~~	100.1	+ 1.65
172.6		
304.0		+ 1.60
35-68	50 8	
120.0	53 6	
14 36 40 173.6	104.4	+ 1.55

The last 5 groups reduced at end of 10th group.

Above groups experimental - to test out Plate T.

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1921phae.proj..648C

α 18.5

Tues. Aug 16-1921

GMT LCObs. 12" Polar

13 07 R Cor 15442 est 6.5

13 09 SS Cyg. 21343 est 11.7

Standard Region No. 8A

20h +45.0

Star 3 with A Phot T.

		B		
13	16 00	116.2	(*3 dis = ~~brighter~~ 1	
		165.3	491	
		295.9	474	
		343.3	96.5	+1.74
		1180		
		166.3	483	+1.76
		294.9	470	
		341.9	95.3	+1.77
		A		
		208.3		Mean = +1.70
		256.3	480	
		248	522	
		77.0	1002	+1.65
		206.4		+1.64
		257.8	514	
		244	500	
13	21 00	74.4	1014	+1.62

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1921phae.proj..648C

Aug. 16-17, 21

3 with 8 II

		A		
13	22 10	206.9		
		25 ~~8.8~~	51.9	
		24.4	52.8	
		77.2	104.7	+1.54
		205.4		+1.62
		254.2	49.8	
		26.6	69.0	
		75.6	97.8	+1.71
		B		Mean = +1.70
		297.2		
		342.2	45.0	
		113.8	50.2	
		164.0	95.2	+1.74
		297.2		
		342.4	45.2	+1.79
		117.8	49.1	
13	26 40	166.9	94.3	+1.80

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1921phae.proj...648C

Aug. 16–1921

B 3 with 8 III

13 27 30 269.2
342.2 450
115.2 495
164.7 945 +1.80

297.0 +1.74
343.8 468
118.0 488
166.8 956 +1.77

A Mean = +1.69

27.8
37.7 50.9
206.8 49.8
256.6 1007 +1.64

25.8 +1.60
39.8 540
203.9 502
13 32 30 254.1 1042 +1.55

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1921phae.proj..648C

Aug 16-1921

		A	3 with B	IV
12	33 20	24.4		
		77.8	53.4	
		202.2	57.8	
		260.0	111.2	+1.39
		23.7		+1.46
		79.4	54.7	
		205.1	50.1	
		255.2	104.8	+1.56
		B		Mean +1.61
		120.2		
		167.8	47.6	
		294.8	48.5	
		343.3	96.1	+1.75
		116.3		+1.76
		164.9	48.6	
		293.3	46.5	
13	38 20	343.8	95.1	+1.78

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1921phae.proj..648C

Aug 16-1921

	B	3 with δ	V
13 39 10	117.0		
	165.6	49.6	
	294.8	49.2	
	344.0	98.8	+ 1.69
			+ 1.74
	117.4		
	165.6	48.2	
	293.8	47.0	
	341.4	95.2	+ 1.78
			Mean = + 1.63
	A		
	203.2		
	256.9	53.7	
	26.2	51.6	
	77.8	105.3	+ 1.53
			+ 1.52
	203.2		
	257.8	54.6	
	24.9	51.8	
13 44 20	76.7	106.4	+ 1.50

Reduced groups 1-5 here

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1921phae.proj..648c

70

Aug 16 – 1921

	A			W
13 5 2 30	205.0			
	25 8.6	53.6		
	28.0	49.8		
	77.8	103.4	+1.57	
				+1.46
	202.2			
	260.2	58.0		
	22.4	55.6		
	78.0	113.6	+1.34	
	B			Mean = +1.54
	298.4			
	341.4	43.0		
	115.4	50.8		
	166.2	93.8	+1.81	
				+1.70
	296.2			
	346.3	50.1		
	115.8	52.6		
13 57 50	164.4	102.7	+1.59	

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1921phae.proj...648C

Aug 16-1921

B

03 58 20 297.0
346.4 49.4
117.2 49.2
166.4 98.6 + 1.69

295.4 + 1.74
343.8 48.4
119.0 46.4
165.4 94.8 + 1.79

Mean = + 1.74

R

23.3
27.7 55.4
203.2 59.0
262.2 114.6 + 1.32

23.9 + 1.34
81.0 57.1
203.4 55.3
14 03 50 258.7 112.6 + 1.36

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1921phae.proj..648c

72

Aug 16–1924

VII

A

14 04 20

222			
77.4	55.2		
202.4	55.0		
257.4	110.2		+1.41
20.0			+1.30
81.0	61.0		
202.4	60.0		
262.4	121.0		+1.19

B

Mean = +1.55

118.7			
165.7	47.0		
297.2	65.0		
342.2	92.0		+1.96
119.8			+1.80
168.4	48.6		
295.8	48.4		
344.2	97.0		+1.73

14 09 30

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1921phae.proj...648C

August 16-1921

IX

	B		
14 00 00	119.7		
	167.0	473	
	297.2	474	
	344.6	947	+ 1.79
	117.8		+ 1.76
	167.8	500	
	297.3	467	
	344.0	967	+ 1.74
			Mean = + 1.75

	a		
	206.2		
	257.6	514	
	222	594	
	816	1108	+ 1.40
			+ 1.33
	202.4		
	260.2	578	
	224	590	
14 14 40	814	1168	+ 1.26

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1921phae.proj..648C

74

Aug 16–18 21

A

X

14 15 30 205.1

259.8 56

25.4 56.2

81.6 110.9 + 1.40

2044 + 1.34

263.8 59.4

73.0 56.8

79.8 116.2 + 1.28

B Mean = +1.54

3022

343.2 41.0

117.0 46.6

163.6 95.6 + 1.72

2980 + 1.74

345.2 47.2

115.9 48.5

14 20 20 1644 95.7 + 1.76

Reduced groups 6–10 here

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1921phae.proj...648C

Aug 16-1921

	B			XI
14 3200	299.4			
	344.4	45.0		
	167.8	44.6		
	186.4	90.6	+1.82	
	299.8		+1.91	
	341.4	41.6		
	119.0	45.2		
	164.2	86.8	+2.0	
	a			Mean = +1.6 z
	26.0			
	79.4	53.4		
	204.9	58.3		
	262.2	111.7	+1.34	
	21.2			
	81.4	60.2	+1.32	
	203.0	58.8		
14 37.00	259.8	117.0	+1.26	

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1921phae.proj..648C

Aug 16–1924

A

XII

143730	218		
	80.2	584	
	2026	606	
	2626	1190	+1.23
	232		
	292	560	+1.31
	2624	552	
	2580	1112	+1.37

Mean = +1.56

B

	1179		
	1666	487	
	2966	485	
	3452.1	962	+1.71
	1172		
	1668	496	+1.82
	2992	412	
144200	3604	908	+1.89

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Aug 16-1921

XIV

B

14 42 30 | 11 8.8
16 2.4 — 43.6
29 4.4 — 49.8
34 4.6 — 93.4 + 1.82

120.2
167.7 — 47.5 + 1.82
297.7 — 46.4
344.1 — 93.9 + 1.81

Mean = + 1.57

A

203.2
259.8 — 56.6
25 4.6 — 59.0
84.4 — 115.6 + 1.29

+ 1.32

205.2
260.2 — 55.0
22.0 — 57.0
14 47 20 80.0 — 113.0 + 1.35

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1921phae.proj..6486

78

Aug. 16–1921

XIV

A

14 48 00	203.0		
	262.2	592	
	21.8	632	
	84.0	1224	+1.14
	204.0		+1.24
	259.2	552	
	23.8	58.2	
	82.0	113.4	+1.34

B

Mean +1.44

	298.8		
	345.4	46.6	
	117.4	48.9	
	166.3	95.5	+1.71
	297.8		+1.72
	345.8	48.0	
	115.6	57.8	
14 52 10	167.4	99.8	+1.66

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1921phae.proj..648C

Rep 16–1921

B XV

14 5 2 40	29 7 6		
	34 3 4	45 8	
	116.6	493	
	165 9	951	+ 1.74
	29 7 4		+ 1.74
	34 4 4	470	
	114 8	518	
	166.6	988	+ 1.69

A Mean = + 1.56

	23 6		
	79 8	562	
	205.0	548	
	259 8	1110	+ 1.39
	25 5 5		+ 1.38
	78.9	534	
	203.0	588	
14 5 7 50	261.8	1122	+ 1.37

Reduced groups XI & XV at end of XV

15 07 Region of Meridian

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1921phae.proj..648C

Aug 19 - 1921

22 g21

R Cr. Bor. 12" Polar Phot T

G M T

R Cor. Bor. 15h42s

est 6.0

13 & 20 292.5 (Van dis

343.6	51.5	
116.3	48.5	
165.8	100.0	− 1.66

291.2		− 1.54
345.2	54.0	
114.2	55.6	
169.8	109.6	− 1.42

> 20

Mean = 1.45

Magn = 5.75

A

226		
80.8	54.2	
205.2	51.9	
257.1	110.1	− 1.42

22.8		
77.8	55.0	− 1.36
203.8	59.6	
263.4	114.6	− 1.31

13 12 10

13 10 15

1902 SS Cygni 21h43 est 11.8

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1921phae.proj...648C

Aug -19-1921

B R Scutti 1F4205 Phot T

(3 20 30 19).7 <Var dis. comp with h(27) 7.1)
26.8]11 on 62
13.6]92
82.8 140.3 * − 0.77

19.8
266.4 68.6 − 0.78
15.2]03
85.5 138.9 − 0.80

A 7.10
Mean − 0.77
Range = 6.3
286.4
359.8]3.4
107.3]19
179.2 145.3 − 0.67

289.0 − 0.76
~~346.8~~ Interrupted by Cannon telephone
352.8 63.8
102.2]2.2
(3 35 20 174.4 136.0 − 0.86

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1921phae.proj..648C

Aug 19 - 1921

Nova Aquilae 1918 380

B

13 44 20	218.4	< Comp ~~*~~ dis 6.3)	Plot T.
	243.3	249	
	36.4	260	
	62.4	509	+ 3.24
	218.8		
	244.4	256	+ 3.24
	38.2	254	
	63.6	510	+ 3.23

Mean = + 6.3 / 3.08 / 9.38

A

	305.3		
	335.3	300	
	126.4	284	
	154.8	584	+ 2.92
	308.2		+ 2.93
	335.6	274	
	126.8	306	
13 49 30	154	580	+ 2.94

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1921phae.proj...648C

Aug 19-1921

Standard Region B & Plot T.

	B	3 with A		20h+45-0
14 00 40	291.6	< * 3 dis. = brighter.		
	346.3	547		
	116.6	528		
	169.4	1075	+ 1.48	
	293.3			
	349.0	557	+ 1.40	
	112.0	592		
	171.2	1149	+ 1.31	
			Mean =	+ 1.23
	A			
	~~202~~			
	199.8	598		
	259.6	636		
	18.6	1234	+ 1.12	
	82.2			
				+ 1.06
	199.7			
	261.2	615		
	16.2	674		
14 06 20	83.6	1289	+ 1.00	

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1921phae.proj..648C

84

Ref 19–1921

A

II

1401 00

199.2		
261.6	62.4	
20.2	64.1	
84.3	1265	+ 1.05

202.6		
265.3	62.7	+ 1.00
16.3	69.0	
85.3	1317	+ 0.96

B

Mean = + 1.00

290.2		
351.4	61.2	
112.2	62.4	
174.1	123.6	+ 1.17

286.2		0.99
? 356.3 *	70.1	
109.1	65.2	
? 174.3	135.3	+ 0.97

1413 30

* disturbed by having to answer door bell.

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1921phae.proj...648C

Aug 19-1921

	B			III
14 C 4 20	291.6			
	350.6	590		
	111.4	590		
	170.4	1180	+ 1.24	
	290.0			
	355.6	656	+ 1.15	
	113.7	607		
	174.4	1263	+ 1.06	
	A		Mean = + 1.20	
	21.8			
	83.6	618		
	204.9	564		
	261.3	1182	+ 1.23	
	22.8			
	83.6	608	+ 1.25	
	204.0	556		
14 19 10	259.6	1164	+ 1.27	

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1921phae.proj..648C

Ref 19-1921

IV

	A		
14. 20 00	23.6		
	77.8	5x2	
	203.0	603	
	263.3	114.5	+1.31
	23.0		+1.28
	82.2	592	
	201.8	580	
	259.8	112.2	+1.25
	B		Mean = +1.26
	113.8		
	173.8	600	
	288.8	596	
	348.4	119.6	+1.20
	112.3		+1.23
	170.4	581	
	291.6	590	
14 24 40	350.6	117.1	+1.26

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1921phae.proj..6486

Aug 19-1921

	B			V
14 25 10	111.1			
	170.4	59.3		
	289.8	61.8		
	351.6	121.1	+1.17	
	113.0		+1.24	
	171.4	58.4		
	229.4	56.6		
	340.0	110.6	+1.30	
	A			
			Mean =	+1.25
	203.0			
	263.4	60.4		
	22.2	60.6		
	82.8	121.0	+1.17	
	205.6		+1.26	
	261.6	56.0		
	23.2	56.8		
14 30 00	85.0	112.8	+1.35	

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1921phae.proj..648C

Thur. Aug 23 - 1921

L.C. Obs 12" Polar

13 : 13 S S Cyg g. 21 38 43 est 11.9

13 14 R Cor. 15 44 28 est 6.0

13 15 R Scuti 18 42 05 Photometer T.

B

168 < Vardis.
738 570
197.0 541
251 4 111.6 — 1.39

12 2
80 8 686 — 1.22
197.2 516
254.8 126.2 — 1.06

A

94 4 Mean — 0.93
174 4 800 6.2
278.2 546
352 8 1546 — 0.49

1033 — 0.64
172.3 690
281 4 704
13 21 19 331 8 139.4 — 0.79

Images very unlike making est difficult

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1921phae.proj..648C

August 23 - 1921 -

Standard Region B. 8 Phot. I.

B. 3 with 8 - 20h + 45,

13. 28 29

	295.8	< 3 obs.	
	336 2		
	110 4	404	J
	159.0	426	
		89.0	+ 1.94
	294 3		
	338 0	437	1.85
	111 0	522	
	163 2	95.9	+ 1.96
	A		
	20 2		+ 1.68
	74 2	540	
	202 0	514	
	230	105.0	+ 1.54
	239		1.52
	684	445	
	201.2	516	
133150	252.8	106.1	+ 1.51

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1921phae.proj..6486

August 23 – 1921

13 32 45 A

II

17 8
76 8 59.0
202 2 x80
250 2 1070 +1.49

16 9
71 0 5x1 +1.46
19 7 0 5x8
25 1 8 108.9 +1.44

B Mean +1.61

11 4 3
15 9 2 44.9
29 3 6 46.6
34 0 2 91.5 +1.87

18 3 4 1.76
16 0 8 47.4 +
28 8 9 52.9
13 35 50 34 1 8 100 3 +1.65

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1921phae.proj...648C

Aug 23. 1921

13 36 05 B

	115 2		III
	163 8	48.6	
	293 6	46 8	
	340 4	95.4	+1.77
	112 8		177
	158 4	45 6	
	289 2	50.0	
	340 2	95.6	+1.77
	A		Mean = 1.70
	202.8		
	256 2.2	50 4	
	20 8	50 0	
	71 8	101.4	+1.62
	202 3		+1.62
	255 2	52 9	
	20 0	48 9	
13 38 00	68 9	101.8	+1.61

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1921phae.proj..648C

August 23 - 1921

IV

13 3 9 20 4

206 4		
259 8	534	
208	511	
71.9	1045	+ 1.55
200 0		
254 2	542	+ 1.48
18 4	563	
74 7	110.5	+ 1.41
B		
294 8		Mean = + 1.60
336 6	418	
111-4	498	
160 8	91.2	+ 1.88
294 8		+ 1.81
338 4	436	
112 2	686	
13 42 25 160 8	92.2	+ 1.86

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1921phae.proj...648C

August 23. -1921

B

V

13 42 45	293.6			
	337.8	4 x 2		
	1090	526		
	1616	96.8	+ 1.74	
	2938			
	3450	512	1.68	
	1163	508		
	1611	102.0	+ 161	
	A			
	196		Mean = + 1.69	
	692	496		
	2038	550		
	2488	94.6	~~+1.8~~ 179	
	198			
	708	520	1.70	
	2027	495		
13 46.55	2522	101.5	+ 1.62	

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1921phae.proj..648C

August 23 1921

VI

A

14 2 20	236	486	
	712	506	
	2012	982	1.70
	2518		
	214	500	1.62
	714	549	
	2003	1049	1.54
	2552		

B

	1188		1.79
	1614	426	
	2948	426	2.05
	3374	852	
	1156		1.96
	1588	432	
	2922	480	1.88
14 6 50	3402	912	

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1921phae.proj...648C

August 23 - 1921

14 7 15 B V II

1122			
1583	461		
2943	435	1.72	
3378	89.6		
1138			
1606	468		1.80
2926	526		
3452	97.4	1.67	
A			
2029	503		1.69
2526	555		
19.7	105.8	1.52	
75 2			
			1.58
2063	451		
251.4	535	1.64	
173			
14 9/10 40 728	100.6		

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1921phae.proj..648C

August 23 1921

14 10 00 A

1992	5-25		VIII
2511	5-49		
193	107.4	1.48	
742			153
1998	5-32		
2530	5-01	1-58	
216	103.3		
717			
			1.70
B			
2948	450		
3398	436	19.5-	
115-2			
1588	88.6		
			186
2934	5-08		
3442	4-50		
1148		1.76	
14 13 10 1598	95.8		

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1921phae.proj...648C

August 23 1921

14 14 30 B

IX

2914	460		
3374	494	1.77	
1124	954		
1618			1.70
2915	497		
3412	514	1.63	
1124			
1638	1011		
A			
			1.63
2650	5-5-2		
2602	498		
241		1.54	
739	1050		
2040			1.56
2344	504		
206	522		
14 16 30 728		1.59	
	1026		

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1921phae.proj..648C

August 23 1921 X

14 17 00 A.

196.8	6 30		
259.8	6 26		
15 8		1.07	
78 4	125.6		
		1.05	
194 4			
260 2	6 5-8		
15 2	6 18		
77 0		1.03	
	127.6		
B			
		1.02	
286 3			
348 8	6 25		
106 4	6 18		
16.8 2		1.10	
	124.3		
		1.00	
287 4			
348 9	6 15		
108 4	7 19		
14 20 10 170 3		0.91	
	133.4		

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1921phae.proj...648C

Wednesday Aug 24 1921

L.C. Obs. 12 Inch Plan.
G.M.T.

12:58 SS Cygni 213843 Est. 11.9

+45° 3584 Photometer T.

		B		
13	10.45	260	Comp. dis.	
		68.6		
		204.6	426	
		242.6	380	
			80.6	+ 218
		27.8		
		673	395	+ 222
		205 1	385	
		243.6	78.0	+ 225
		A		
		110 6		
		160 4	498	
		292 2	510	
		343 2	100.8	+ 164
		110 9		+ 176
		159 3	484	
		296 3	433	
13	14 45	339.6	91.7	+ 187

+ 22
Mean = +1.99
6 21

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1921phae.proj..648C

August 24 1921

Same again

A

13 14 55	113 4		
	157.8	444	
	2942	39.7	
	333.9	841	+ 208
	115.6		+ 1.97
	158 6	430	
	2930	492	
	342.2	922	+ 186

B

	209.2		
	243 2	340	
	236	441	
	67.7	781	+ 2
	207.0		+ 2.30
	246 8	39.8	
	28.8	348	
13 18 40	63.6	76.6	+ 236

II

422

Mean + 2.14

6.36

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1921phae.proj...648C

August 24 - 1921 -

W. Cygni 213244 I

13:21:55

298.2	Comp.	dia.
334.8	366	
120.4	340	
154.4	306	+ 2.49
301.6		+ 2.46
337.3	356	
116 6	367	
153.3	323	+ 243
S A		
29.4		Mean = + 2.62
52.0	328	
212.8	304	+ 274
243.2	632	
28.4		2.77
60.8	324	+
213 8	292	
13 28 30 243.0	616	+ 280

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1921phae.proj...648C

August 24 1921 -
W Aquii again III

13:20 55

A
26.8
62.2
211.3
243.6

354
323
67.7 ± 2.59

26.3
61.2
212.2
244.3

349
321
67.0 ± 2.61

B.
114.8
158 8
297.2
334 3

390
371
761 ± 2.31

116 4
154 4
297 2
335.8

380 ± 2.30
386
766 ± .30

422
Mean = ± 2.45
6.67

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1921phae.proj..648C

August 24 – 1921 –

13 35 20 W Cygni III

B.

114 4		
155 2	408	
298.8	388	
332.6	746	+ 2.36

1184		2.36
155 2	368	
2986	376	
3362	744	+ 2.36

A.

211.2		422
242.8	316	Mean = + 2.42
26.8	358	6.70
62.6	674	+ 2 60 59

211 3		+ 259
243.8	325	
26.0	352	
612	677	+ 259

13 39 20

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1921phae.proj..648C

104

August 24 - 1921

+ 45° · 35·84 - III

13 41 30 A

~~3377~~

117.7	351	
152 8	316	
301 2	667	+ 262
332.8		
		+ 247
119.2	334	
152 6	426	
296 2	760	+ 232
338.8		
98.		
204 6		Mean = + ~~422~~ 2.20
251.2	466	642
238	438	
67.6	904	+ 1.90
205.9		
247.6	417	+ 194
242	456	
13 45 10 698	873	+ 1.99

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1921phae.proj...648C

Aug. 24–1921

– Cygni.

IV

	B.		
13:5–0:30	203.6	462	
	249.8	443	
	228	90.7	+ 190
	663		
			+ 192
	2010		
	2418	408	
	24.6	478	+ 195
	724	88.6	
	A.		2 mean
	2962	400	
	3362	389	
	1174	78.9	+ 223
	1563		
			+ 214
	2938	40.9	
	3347	44.1	
	1146	450	+ 205
13 55 25	1587		

422
+ 203
625

Comp star used for both stars
Equals + h 44 m 0.3465 (4.1) = ~~422~~
at 21 29 + 44:55 (2.5)

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1921phae.proj..648C

August 24, 1921

S Comet. Region B2

G.M.T. 20h 45m-0

* 3 with *A

14: Region covered with clouds

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1921phae.proj...648C

Thursday August 25 1921

L.C. Observer

12:51 S S Cygni 213843 Est. 12.0

12:53 R Coronae 154428 Est. 6.0 Phot. T.

~~B~~ A 682
12 58 03 107.8 693
176.0 Va 129.5 d's. − 0.99
285.3
346.6

− 1.08

105.0
174.0 690
290.9 527
343.6 1217 − 1.16

B. 1.08
200.0
257.2 572 Mean = 6.1
14.6 638
78.4 1210 − 1.17

1970 − 1.08
2594 624
126 674
13 2.30 80.0 1298 − 0.98

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1921phae.proj..648C

Aug 25 1921

R Coronae

Same again

13 2 40	195.2			
	264.2	690		
	128	634		
	76.2	1324	−0.93	
	196 0		−0.98	
	258.8	624		
	132	(x)		
	77.9	1275	−1.03	
	A			72
	283 0			−0.82
	352 8	698		64
	1033	707		
	174.0	1405	−0.76	
	279.6		−0.67	
	350.2	706		
	99.8	792		
13 6 35	179.0	1498	−0.58	

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1921phae.proj...648C

Aug 25 1921

Reverse

Same again

III

	A.		
13 11:50	~~24.0~~	~~2094~~	
	283.4	~~590~~	
	348.8	634	
	1078	620	
	169.8	123.4	−1.04
	287 2	3 74	−1.04
	3446	720	
	101.0	129.4	−099
	1730		7 2
	78	603	1:00
	16.6	674	Mag = 6.2
	76.9	127.7	−1.03
	1968		
	264.2		
			−0.96
	13.4		
	780	64.6	
	193.1	691	
13 16.0	2622	133.7	−0.90

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1921phae.proj..648C

Ref 25-1921

+65.3584 Phot T.

13 29 30	B		
	205.0		Comp. dis.
	250 8	458 ✓	
	230	502 ✓	
	73.2	960 ✓	+1.76
	2046	✓	+1.84
	2486	440 ✓	
	254	454	
	708	894 ✓	+1.93
			422
	A.		+184
	2916	✓	606
	3433	517 ✓	
	112.8	494	
	162.2	1011 ✓	+1.63
	2892	✓	+1.84
	3358	466 ✓	
	1168	387	
13 34 40	155.5	853 ✓	+2.04

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1921phae.proj...6486

Aug 25-1921

A Same again

13 35 00	299.4			II
	335.8	364		
	114.2	324		
	166.6	88.8	+ 1.95	
	289.8			
	342.6	328	+ 1.93	
	119.0	373		
	156.3	90.1	+ 1.91	
	B.			
	28.0	360		4.22
	64.0	368		2.08
	210.6	728	+ 2.42	6.30
	247.4			
			+ 2.24	
	28.2			
	72.6	444		
	206.2	396		
13 38 50	245.8	840	+ 2.08	

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1921phae.proj..648C

Aug 25/21

W Cygni. 213244

13 44 10	113 0		
	157.8	448	
	293 8	464	
	340.2	912	+1.88
	1148		
	153 6	388	+2.02
	296 2	426	
	338.8	814	+215
	211 6		422
	242 8	312	2.49
	33.3	247	6.71
	58.0	559	+3.02
	214.6		2.96
	240 6	260	
	284	326	
13 49 15	61.0	586	+2.91

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1921phae.proj..648C

Aug 25/21.

W Cygni again

13 49.45 210.2
2433 331 ✓
3.24 260 ✓ +289
58.4 591

2146 ✓ +2.82
2444 298 ✓
298 321 ✓
614 629 ✓ +275

2952 ✓ +22
3358 406 ✓ 2545
1178 342 ✓ 677
1520 748 +231

2979 +228
3364 385
1134 408
13 52.45 154.2 792 +222

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1921phae.proj..648C

Aug 25/21

R Scuti 18420S Phot 7

14 2 15	12.6	Var. dis.	
	80.8	682	
	201.2	543	
	255.5	122.5	— 1.14
	15 8		
	738	580	— 1.12
	1906	658	
	256.4	123.8	— 1.11
			Mean — 1.04
	106.0		
	1712	652	
	2863	623	6.1
	3486	127.5	103
	105 0		— ~~1.02~~
	171 8	668	096
	284 2	666	
14 6.50	350 8	~~123.4~~	— ~~112~~ 091
		133.4	091

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1921phae.proj..648C

~~Friday~~ ~~Frayd~~ / Aug 26/21

6

L.C. Obs.

F.T.C. Rec

S.M.T.

12 3 7.10 S Sagittae 213843 Est 11.8

12 38 53 R Coronae 15 4428 Est 6.2

12 41 50 + 45 35 84

Phot T.

B

24.2	Comp. star dis.	
67.7	4.35	
204.8	418	
2466	~~8~~ 853	+ 204
25.3		+ 2.10
687	434	
2074	373	
2447	807	+ 2.17

A

109.7	7	
1644	547	
2900	482	
3382	1029	+ 1.59
		+ 1.61
1136	502	
1638	510	
2917	1012	+ 1.63
12 45 55 3427		

422

Mean = +1.86

6.08

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1921phae.proj..648C

Aug 26 - 1921

Same again

12 46 40

	~~X 6 6 4~~		
	~~X 6 5 6~~	~~5 9 2~~	
	~~2 8 4 8~~		
	1064	✓	
	1656	592 ✓	
	286.0	528 ✓	
	3388	112.0 ✓	+ 1.37
	112.6	✓	1.32
	1638	512 ✓	
	2838	606 ✓	
	3444	111.8	+1.30
	2132	✓	~~Mean~~ $\frac{\times 2.22}{2.00}$
	2398	266 ✓	6.22
	~~2 4~~ 6	396 ✓	
	642	66.2	26.4
	2066		
	2458	392 ✓	2.62
	306	282	
12 50 40	38.8	67.4 ✓	25.9

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1921phae.proj...648C

Aug 26/21.

B/V. Cygni Again.

12 53 00

~~4-26~~

295.2	~~4 26~~	
340.8	~~7 24~~	456
113.2	115.0	~~-4~~
		452
158.4		90.8 + 1.89
2922	~~4 38~~	
3387	465	+ 1.92
113.2	426	
1578	89.1	+ 1.9
A.		
30 0		Mean 2.35
61 6	31.6	6.57
210 8	320	
242.8	63.6	+ 2.73
307		2.78
617	310	
2127	295	
12 58 10 2422	605	+ 2.8

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1921phae.proj..648C

Aug 26 - 1921

W. Cygni Again

12:58 10	31.2		
	38.6	274	
	215.6	288	
	2444	56.2	+ 3.01
	298		+ 2.94
	394	29.6	
	214.6	303	
	244.9	599	+ 286
	116.2		Mean + 2.74 (k 2 2)
	155 2	39.0	6.96
	3023	309	
	3332	69.9	+ 251
	1223		+ 2.55
	1544	321	
	2994	354	
13 2 50	3348	67.5	+ 259

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1921phae.proj...648C

Aug. 26 - 1921 -

W Cygni

IV

13.9 -	114.6		
	15-84	438	
	2968	374	
	3342	812	+ 2.16
	117.7		
	1527	350	+ 2.24
	2940	412	
	3352	762	+ 2.31
	2106		422
	2448	342	Mean = 2.55
	32.6	25.6	6.77
	582	5-9.8	+ 2.27
	214.4		+ 2.26
	2408	264	
	28.4	340	
13 13 10	.624	604	+ 2.26

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$2^{2^{2^{2^6}}}$

Aug. 26 - 1921 -

13:23:30	R Herc	160118	Est. 10.9
	U. Serp.	160210	Est 13.2
	R U Herc.	160625	Est. 12.6
	W. Coronae	161138	Est 10.3
	V. Oph.	161607	Too low, in treetops —
	U Herc	162119	Est 13.0
	S S Herc.	162807	Est 11.6
	V Herc.	163137	Est. 8.8
	S Herc	164715	Est. 12.7
	R V Herc	165631	Est 13.2 - Sy seen
	R T Herc	170627	Est 13.2
	Z Oph.	171461	Est 12.1
	R S Herc	171723	Est 9.2
	R U Oph	172809	Est 13 0
	R S Oph	174406	Est 11.3

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1921phae.proj...648C

Aug 26 - 1921 -

R J. Oph P	175111	Est 13,2	
R Y Herc	175519	Est 13,0	
T Herc.	180531	Est 12,0	
Nova Oph no. 4	180911	Est 11, 8	
RY Oph	181103	Est 9.2	
U Lyrae	181136	Est. 11,0	
S U. Herc	182224	Est 12,8	
T Ser p.	182366	Est 129	
S V Drac.	183149	Est 13 0	
R Z Herc.	183225	13,3 - Ly seen.	
X Oph	183308	Est 8.4	
R Y Lyrae	184134	Est 13 3	
R U. Lyrae	184243	Est 12.9	
Nova Lyrae	184929	Nova Equals	Star 26 = 13 4/5
R X Lyrae	185832	Est 13.2	

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1921phae.proj..648C

Aug 26 - 1921

	S Sagittarii	18 55 12	Est	13.0
	Z Lyrae	18 56 34	Est	13.3
	R Aquilae	19 01 08	Est	5.7 ±
14.25 —	~~X~~ Cygni	19 46 32	Est	5.3

Vis. est plotted.

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1921phae.proj..648C

5

2" 9.3"

Mon. Aug 29 - 1921

L&C Obs 12" Polar FTC Rec

13.00 SS Cygni 21 30 43 ert 11.7

Miss Wood's var. @ 1736 - 6.

14 00 4 a - 2 - 2 b - Est.

Too Lazy to Continue to advantage —

— H. C. Bancroft visited Observatory —

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1921phae.proj..648C

Wednesday Aug 31 - 1921

L.C. Obs. 9 1/2 Refr

12:28	S Sagitt	213843	Est. 12.0	
	R Coronae	154428	Est. 6:8	Phot T.
	A.	var. dis.		
12:33:0	281.6			
	346.8	652		
	101.0	624		
	163.4	127.6	— 103	
	287.4			
	347.8	604	— 113	
	103.8	381		
	171.9	118.5	— 123	
	B			720
	9.6	727	Mean =	−090
	82.3	664		630
	195.2	139.1	— 079	
	261.6			
	6.4			
	80.6	738	— 067	
	189.3	775		
12 38 40	266.8	151.3	— 055	

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1921phae.proj..648c

Aug. 31 - 1921 -

12. 44 30 Miss Woods Var. 173806 Est 5.0 t.
Too faint to measure with Photometer.

12 45:45 γ2 Sagit 184205 Phot. T.

	132	var. dir.	
	796	664	
	1904	696	
	2600	136.0	−0.86
	142		
	826	684	−0,89
	1960	646	
	2606	133.0	−092
	1118		71
	1674	5-56	Mean = −1.00
	2804	639	6.1
	3463	1215	−116
	1047		
	1777	730	1.10 −
	2914	5-36	
12 49 30	3455.0	126.6	−105

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1921phae.proj...648C

Aug 31 - 1921.

~~31~~

12 5-6:35 + 45.35 84 Phot T.

YB.

24.2 Comp. * Dec.

673

2046 431

246.4 418

849 +2 05

264

664 400 +2.13

2024 394

2418 794 +2 21

q

4.22

114.6 Mean +1.96

1602 456 6.18

2917 507

3424 963 +1.75

1156

+1.98

1628 472

2952 464

13 1-30 2416 936 +1.82

1921phae.proj...648C

Aug 31 - 1921

W. Cygni Plate I.

~~13:3:20~~	a		
	~~2468~~	Comp. & dis.	
	~~268~~		
13:4:0	2108		
	2432	324	
		318	
	272	642	+ 270
	590	~~918~~	
	2183	d	
	2433	250	+ 282
	282	302	
	614	582	+ 293
	88		
	3003		
	3349	846	
	1128	444	
	1572	790	+ 222
	2997		
	3376	379	+ 217
	1136	448	
13 8 20	1584	827	+ 212

Mean = + 422 / 250 / 672

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1921phae.proj..648C

Aug 31 - 1921 ——→

13 Iris. (7)
Comp. mth * @ 23/32 + 8:50 (1855)
asteroid @ 23/33 + 8:33 (1855)

14 00 Too many clouds to measure this object.

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1921phae.proj...648C

9h 4

Thursday September 1st 1921

L.C. Obs

13:27 88 Cygni 213843 Est 1,8

13. 32:55 Iris (7)

Comp with * @ 23:32 +8:50 Phot. T. (8 5 3)

Comp. Star. dis

~~B~~ a

110.2

165.2 3-30

290.0 3-98

349.8 114.8 +13.1

1056

1665 609 +14.2

2942 444

3386 165.3 +15.3

~~7~~ 8.

2058

2484 426

18.2 624

806 1050 +15.4

1922

2578 656

33.9 35.8 +15.9

13 3 6.10 686 100.9 +16.4

13 34 32

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1921phae.proj..648C

Sept 1 - 1921 -

II 43

13 39 45	206.8	3	
	245.2	2.84	
	120	2.4	
	~~344~~	~~80.8~~	+ 2.17
	289.8	450	+ 2.10
	~~255.8~~	~~660~~	
	283	403	
	68.6	~~85.3~~	+ 2.06
	a		
	289.2		Mean = + 1.66
	344.4	55.2	
	109.0	608	
	1728	1190	+ 1.21
	282.4		+ 1.22
	3498	674	
	113.4	508	
13 42.45	164.2	1182	+ 1.23

Reject above group
too much doubt about
readings in first 2 sets.

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1921phae.proj...648C

Sept 1 1921

~~XXI~~ II

a

13:47:25 286.8
3418 550
1067 567
1634 111.7 138

2892
3453 561 144
1128 508
1636 1069 149

B.
244
720 476
1936 600
2536 1076 147

185 148
775 590 mean 146
2005 483
13:52:15 2488 107.3 148

13 49 50

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1921phae.proj..648C

Sept 1 - 1921

13 54 00 43.

244		
752	508	
1998	550	
2548	103.8	
202		+152
801	599	
2034	434	+ ~~455~~
2488	1033	
a		~~+~~ 38
1149		
1598	449	
2842	622	
3464	1071	+149
		Mean +150
1100		
1705	605	+ 149
2932	462	
3394	1067	+ 149

13 58 50

13 56 02

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1921phae.proj...648C

Sept 1-1921

XXIV

14 00;40

	A.		
	1151		
	1630	479	
	2890	585	
	3475	1064	+150
	1130		+16.6
	1656	526	
	2948	458	
	3406	934	+182
	78.		
	2032		Mean +156
	2484	452	
	207	569	
	776	1021	+161
	1993		+146
	2556	563	
	226	588	
14 5-10	714	1151	+130

14 2 55

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1921phae.proj..648C

Sept 1 1921

14 10.00	TB.		V
	201.8		
	2506	488	
	200	5-38	
	738	1026	+15.9
	1987		+15-6
	2514	5-27	
	228	5-20	
	748	1047	+15-4
	a		
	2935		
	3404	45-0	Mean = +16.2
	1115-	5-25	
	1640	975	+17.2
	2892		+16.8
	3436	544	
	1152	460	
14 14 30	1612	1004	+16.5-
16 12 15-			

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1921phae.proj..648C

Sept. 1 - 1921 -

f

14 18 00 A. VI

	2942		
	3372	430	
	1134	498	
	1632	928	+184
	2917		
	3414	497	+177
	1128	486	
	1614	983	+170
	78.		
	233		
	722	489	Mean = +166
	2005	529	
	2534	1018	+161
	202		
	792	590	+ 156
	2034	468	
14 22 10	2502	1058	+152
14 20 01			

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1921phae.proj..648C

Sept 1– 1921

14 27 10	TB.		VII
	22.2		
	738	51.6	
	2028	5-10	
	2538	1026	+15.9
	187		
	718	531	+158
	2030	5-03	
	2533	1034	+15.7
	a		
	115-9		
	1588	435-	mean = +166
	2906	5-14	
	3420	949	+179
	1122		+174
	1632	510	
	2928	472	
14 31 50	340.0	982	+170
14 29 30			

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1921phae.proj..648C

Sept. 1 - 1921 -

14 3640 A. VIII

~~4167~~
1146
1594 448
2940 462
3402 910 +189

1115
1608 493
2874 ~~548~~ 542
3316 ~~73~~ 935 +157

2002
2524 522
2000 608
808 1130 +135

1972
2544 572
189 545
14 4020 134 1117 +138

14 38 30

186
~~+178~~
82
Mean = +1.64
+1.36

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1921phae.proj..648C

Sept 1 - 1921 -

14 4340 TB

IX

2012		
2516	504	
2116	518	
734	1022	+160
1979		
2500	521	
200	516	
716	1037	+157
a		
2936		+158
3376	440	
1134	467	
1601	907	+190
2930		+188
3430	500	
1181	421	
1602	921	+186

Mean 173

14 47.30

Ic 45 3

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1921phae.proj..648C

Sept 1 - 1921

X

14:51:40 A.

2937		
3373	436	
1112	450	
1562	886	+19.5
2901		+1.88
3434	533	
1172	412	
1584	945	+18.0
78		
216		
688	47.2	Mean: +1.76
1964	~~1964~~	
2531	487	
180	979	+171
692		
2014	512	+1.65
2528	514	
	1026	+159

14 56 30

8 10

14 54 05

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1921phae.proj..648C

Sept 1 - 1921

	☿		
15:2:50	73.		XI
	268		
	652	384	
	1882	707	
	2589	1091	+144
	164		
	788	624	+146
	2044	430	
	2494	1074	+148
	♁		
	1186		
	1572	386	Mean = +163
	2900	520	
	3420	906	+190
	1098		+180
	1664	566	
	2948	414	
15:6 50	3362	980	+171

Observations becoming increasingly difficult — Moisture on mirror —

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S Wednesday Sept. 7 - 1921

L.C. Obs.

12:17	Sblyyni	213843	Est. 11.9	
12:19	R Coronae	154428	Est 6.4	Phot. V.
	A.			
12 22.0	~~82.2~~			
	276.2	Var. dis.		
	334.7	7.85		
	110.8	740		
	1748	1525	~~+~~ 053	
	280.7			
	348 4	677		-0.50
	91 2	872		
	1784	1549	-0.48	
	B			720
	4.8			-0.48
	83 4	786		672
	194.8	656		
	2604	1442	-0.69	
	~~8.5~~			
				0.47
	8.5			
	886	801		
	1887	867		
12 2630	2754	1668	-0.25	

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1921phae.proj..648C

Sept 7 - 1921

12:29:30 R Coronae again.

B ~~3544~~

0.2

90 1	899	
194.4	722	
2666	162.1	−0.34
55		
864	809	−0.23
1842	928	
2760	173.7	−012
a		
~~8311~~		
2716	~~885~~	
3474	~~592~~	758
1066	1477	618
B		139.6 −0.82
1684	179	
2863		073
3528		66.5
12 34.0 972		800
1772		146.5 −064

~~1772~~

Mean = −0.420

Wrapa = 6.72

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1921phae.proj...648C

Sept 1 1921

	R Lauti	18420S⁻		Phot T.
12:40 5⁻	A.			
	187.9	Var dis		
	236 7	688		
	17.4	5⁻83		
	76.7	127.1	−1.04	
	1985⁻			
	2486	5⁻01		−1.24
	168	5⁻92		
	760	109.3	−1.43	
	B.			
	2906			
	3472	566	~~Mean +1.46~~	Mean = −1.16
	1058	646		6.0
	1704	121,2	−1.17	
	2832			
	3510	678	1.08	
	1082	612		
12 44:10	1694	1290	−1.0.0	

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1921phae.proj..648C

Sept 7 - 1921

+45° 3584 Plate J.

12 5 1.80 73

2098 Comp Star dis

2442 344

27.7

65.5 378

722 +243

20553

2486 433 +2.30

288 380

668 813 +2.16

A. 422

29977 Mean = +2.05

33999 422

11166 506

16222 928 +184

28844 +180

34334 550

11529 414

12 55 55 15666 964 +1.75

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1921phae.proj...648C

- Sept 7 - 1921 -

	56.0			
12	~~55~~	2960	Same Again.	
		3384	424	
		113.2	498	
		1630	922	+186
		2955		
		3446	491	+1.81
		1148	468	
		1616	959	+1.76
		304		
		618	314	
		2055	389	Mean = +2.12
		2444	703	-12.50 634
		284		+2.43
		658	374	
		2055	373	
13	0000	2428	747	+2.36

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1921phae.proj..648C

Sept 7 - 1921

W Cygni 213244 Phot. T.

13:2:30 43

111.6 < comp & dis

161.6	500	
2924	428	
395.2	928	+1.87

1200		+1.96
1533	333	
2908	520	
3428	853	+2.04

a

2098		Mean = +2.24
245.2	344	6.46
29.6	332	
628	676	+2.59

206.6		+2.52
2384	318	
282	401	
6.83	719	+2.44

13 6 40

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1921phae.proj...648C

Sept. 7 – 1921 ——

Under α 2 W Cygni again

13 7:40 = 2068

2437 369
999 281
620 650 +268

~~2418~~ +2.58

2092
2438 846
299 361
660 707 +248

-B-

291.6
3387 471
1180 375
~~13 11 30~~ 1555 846 +2.06

Mean = +2.30
6.52

2992
3378 386 +2.02
1120 491
13 12 20 1611 877 +1.98

1921phae.proj..648C

Sept 7 - 1921

Iris (7) Phot T.

13: 43.40

Iris found at R.A 2327.5 +8°:30
(1855)

B		Comp * = * @ ~~27~~
22.8	Iris dis	at 23:27.0 (1855)
668	440	+ 8:33
2054	410	
2464	850	-2.05
253		-204
686	433	
2048	420	
2468	853	-204
A		
1166		Mean = -1,96
1592	426	
2922	471	
3893	897	-1.92
1168		
~~1608~~		1.88
1608	440	
2880	484	
13 49 35 3364	924	-1,85

No good comp star within range of Phot - Too different to continue

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1921phae.proj...648C

Sept 7 - 1921 -

14:0 T Z Cygni 19 13 50 Est. 11.0

U Lyrae 19 16 37 Est. 10.0
Algol var. close by = 9.9

T Y Cygni 19 29 28 ———

Sky too mucky to continue
to advantage

Some clouds in
North.

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1921phae.proj..648C

Thursday Sept-8-1921

2941

LC Obs.

12 13:50	ff Aqgni	213843	Est- 11:7	
12 15:40	Nova Aquilae No 3	18430	Est 9:5	
12 25.00	R Bootis	143227	Est 12:8	
	U Bootis	144918	Est. 11:2	
	S. Serp.	151714	Est- ~~9:0~~	
	S Coronae	151731	Est. 12:9	
	X Coronae	154536	Est. 9:9	
	V Coronae	154639	Est. 8:2	
	T Serp.	154615	Est. 12:9	
	Z Coronae	155229	Est. 9.7	
	R V. Herc.	165631	Est 13.0	
	T Draconis	175458a	Est. = 10:8	Var closeby 11.5
	V Draconis	175654	Est 12.9	
	R T. Lyrae	185737	Est 11.4	
	V Lyrae	190529	Est. 12:8	
	S Lyrae	190925	Est 18:0	

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1921phae.proj...648C

Sept 8- 1921—

RS Lyrae	190733	Est -13.1	
RU Lyrae	190941	Est. 13.0	
RR Aquilae	193311	Est. 8.5-	
R Cygni	193449	Est. 13.2	
R Aquilae	193509	Est. 9.6	
RT Cygni	194048	Est 8.5-	
TU Cygni	194348	Est 12.8	
RW Aquilae	195202	Est. 13.1	If seen
RS Aquilae	195308	Est 11.6	
Z Cygni	195849	Est 9.5-	
SU Aquilae	200212	Est. 12.7	
S Cygni	200357	Est 13.2	
S Aquilae	200715a	Est 11.1	
RU Aquilae	200812	Est 9.9	
RS Cygni	200938	Est 8.0	

31

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1921phae.proj..648C

Sept. 8 - 1921 -

R Delp.	201008	Est 9.4
S X Cygni	201130	Est 9.2
U X Cygni	201437	Est. 11.5
V Sag.	201520	Est 12.9
Y Cygni	201647	Est. 10.8
Z Delp	202817	Est. 12.0
S T. Cygni	202954	Est. 13.0
S Delp.	203816	Est. 11.2
V Cygni	203847	Est. 8.2
Y Aquar.	203905	Est. 10.9
T Delp.	204016	Est. 13.2
W Aquar	204104	Est. 12.8
V Delp	204318	Est. 10.0
S. Aquar.	204405	Est. 8.6
R Z Cygni	204846	Est. 12.6

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Sept 8- 1921

	χ Draco	205017	Est 11.5
	U χ Cygni	205030	Est 11.0
	R Vulpec	205923	Est 11.4
	T.U. Cygni	210129	Est 13.0
	R S. Aquar.	210504	Est 12.7
	R Equulei	210812	Est 11.1
	R R Aquar.	210903	Est 10.4
	χ Pegasi	211614	Est 9.5
14 7 00	S S Cygni	213843	Est 11.7
	R R Pegasi	214024	Est 12.9
	V Pegasi	215605	Est 13.2
	R T. Pegasi	215934	Est 10.0
	T Pegasi	220412	Est 12.2
	Y Pegasi	220613	Est. 12.8
14 30	R S Pegasi	220713	Est 10.0

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1921phae.proj..648C

Fri. Sept 9 - 1921

Lalla 12" Polar

13 00 SS Cygni 213f 43 ext 11.7

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1921phae.proj..648C

Monday Sept 12 1921

L.C. Obs. 12" Polar

S.M.T.

15.30 S.S. Cygni Est 8.0.

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1921phae.proj..648C

Tuesday, September 13, 1921

12" Polar

G.M.T.

L.C. Obs.

L.C. Jr. Rec

12-18- S. S. Cygni 213843 est 8.2

12-20- R. Coronae 154428 est 6.8

R Coronae Plot T.

Ind. A.

12-24-55 271.2 90.0 Var. dis.

361.2 77.8

100.4 167.8 — 0.23

178.2

— 0.33

278.2 76.6

354.8 82.1

93.8 158.7 - 0.43

175.9

Ind. B

Mean = - 0.30

359.0 89.2

88.2 79.0

187.4 168.2 - 0.22

266.4

- 0.26

6.4 72.9

89.3 92.0

179.4 164.9 - 0.29

12-30-6 271.4

12-37-30

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1921phae.proj...6486

September, 13, 1921.

	Ind. B.	R. Scuti	18 4205	Phot. T
			Var. D is	
12-38-30	15.0	64.4		
	79.4	64.2		
	196.8	128.6	−1.01	
	261.0			
			−1.06	
	11.4	69.0		
	80.4	54.6		
	201.3	123.6	−1.11	
	255.9			
	Ind. A.		Mean	1.02
				7.1
				6.1
	103.6	67.2		
	170.8	60.7		
	285.2	127.9	−1.02	
	345.9			
			−0.98	
	105.5	66.1		
	171.6	65.2		
	284.0	131.3	−0.95	
12-42-15	349.2			

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1921phae.proj..648C

September, 13, 1921.

Ind. B. + 45° α 3584 Phot T

12-48-20 26.6 41.0 Comp. Star dis.
67.6 44.0
203.8 85.0 +2.05
247.8

+2.30

27.6 36.2
63.8 32.7
210.6 68.9 +2.54
243.3

Ind. A Mean = +2.06 4.22
116.6 39.8 6.28
156.4 47.9
295.4 87.7 +1.98
343.3

+1.82

112.1 52.3
164.4 47.4
291.6 99.7 +1.66
12-52-15 339.0

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1921phae.proj...6486

September 13, 1921

Ind. A.

W. Cygni 213244

12-54 35	26.2	40.6	Comp. Star clis.	
	66.8	30.0		
	213.6	70.6	+2.49	
	243.6			
			+2.64	
	32.4	24.8		
	57.2	37.4		
	208.8	62.2	+2.78	
	246.2			

Ind. B.

Mean = +2.30

	110.6	49.4	
	160.0	36.4	
	300.8	85.8	+2.03
	337.2		
			+1.96
	166.8	38.4	
	155.2	52.0	
	291.8	90.4	+1.90
12-58-10	343.8		

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1921phae.proj..648C

160

22946.

September, 13, 1921.

S. X. Cygni 201130 Est 12.5

13- 05 ½ Cast obs. (previous) evidently wrongly
evidently Var. is not bright

13 09 ½ RZ Cygni 204446 Var. 11.7

look up sup var just south
of 100.

13-21-40½ R. S. Cygni 200938 est 7.8

13-25— Too many clouds to continue

Note.—Fix observing chair in 15" dome

13- -

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1921phae.proj...648C

2 2 8 49.

Friday September 16, 1921.

L.C. Obs. Ind. A — L.C. Jr. Rec

11-55-0 S.S. Cygni 213843 est. 8.2

11-59-5 R Corvinae 154428 ~~est~~ Var — Phot. T

~~Comp~~ dec. I

263.2	99.4	
362.6	90.6	+ 0.19
94.2	190.0	~~+ 0.10~~
184.8	170.0	+ 0.04
272.8	86.1	
358.9	88.1	
91.3	174.8	± 0.10
180.0		

Ind. B — Mean = ± 0.23

11.2	75.2	
86.4	77.0	
190.2	152.2	± 0.53
267.2		
		± 0.50
12.4	71.0	
83.4	85.0	
181.2	156.0	± 0.46

12-4 -5 266.2

Var found to be the star which was made to disappear.

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1921phae.proj..648C

Sept. 16, 1921.

	P.A. A	R. Coronae	
12 -9 -55	3.2	86.6	Var. dis.
	89.8	77.0	
	190.0	163.6	− 0.31
	267.0		
			− 0.26
	6.4	84.0	
	90.4	84.1	
	183.6	168.1	− 0.22
	267.7		
			72
			− 021
			70
	P.A. B		
	3183.6	74.7	
	268.3	89.4	
	3.4	164.1	− 0.30
	92.8		
			− 0.16
	187.7	81.0	
	268.7	97.4	
	0.0	178.4	− 0.03
12 -14 -25	97.4		

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Sept. 16, 1921.

	P.C. B/R. Scuti		184205	
12-18-50	198.0	Var.	dis.	Phot. T
	261.2	63.2		
	15.2	57.0		
	72.2	120.2	-1.19	
			-1.16.	
	200.0	53.2		
	253.2	69.0		
	16.2	122.2	-1.14	
	85.2			
	P.C. A		7 1 Mean = -0.99	
	282.3	71.3	6.1	
	353.6	68.8		
	105.6	140.1	-0.77	
	174.4			
			-0.82	
	281.4	71.6		
	353.0	64.2		
	104.4	135.8	-0.86	
12-22-25	168.6			

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1921phae.proj..648C

Sept 16-1921

Ind. B +45° 35 & 4 Plot T

12-29-0	208.8	35.6	comp. * dis
	244.4	42.0	
	29.4	77.6	+2.27
	71.4		
			+2.30
	206.6	40.4	
	247.0	36.6	
	26.6	76.0	+2.32
	65.2		

Ind. A. # Mean = +2.00 (4.22)

	295.8	43.0	6.22
	338.8	53.0	
	110.0	96.0	+1.76
	163.0		
			+1.70
	285.4	60.0	
	345.4	41.6	
	117.2	101.0	1.63
12-34-0	158.2		

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1921phae.proj..648C

Sept. 16, 1921

W. Cygni 213244

Ind. B. ~~213244~~

12-36-45	289.6	50.6		Phot. T
	340.2	Comp. dist. 43.6		
	115.2	94.2	+1.80	
	158.8			
			+1.94	
	298.6	40.2		
	338.8	43.6		
	111.6	83.8	+2.08	
	155.2			

Ind. A.

	28.0	38.2	
	66.2	30.4	
	210.0	68.6	+2.55
	240.4		
			+2.52
	32.2	30.0	
	62.2	40.8	
	204.6	70.8	+2.48
12-40-25	245.4		

Mean = 4.22 / 2.23 / 6.45

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1921phae.proj..648C

Sept. 16, 1921.

T.T. Drac. 17h57

	Ind. B		Plot T.
13 -10 -15	209.8		Comp. * dia.
	243.4	33.6	
	31.8	28.0	
	59.8	61.6	+2.80
			+2.80
	213.2	29.0	
	242.2	32.6	
	27.8	61.6	+2.80
	60.4		
			>26
	Ind. A		Mean = +2.84
			10.1
	304.4	28.8	
	333.2	27.4	
	122.0	56.2	+3.01
	149.4		
			+2.89
	300.8	28.1	
	328.9	34.0	+2.78
	119.2	62.1	~~2.44~~
13 -15 -0	153.2		

H.A. = 3 03 West ~~of~~

S.T. = 20:11

Decl. = +58.3

Comp * = +58°.170 = 726

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1921phae.proj..648C

Sept. 16, 1921

S. Vulpec. 194427

Phot.

13- -

-Var. too faint to measure in strong moonlight.-

-Too much cloud and moonlight to continue to any advantage.—

13- -

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1921phae.proj..648C

Sunday Sept 18 - 1921

LC Obs.

12-15-	δ Sagni	213843	Est 8.3	
	γ Coronæ	154428	Est. Too Cloudy — in this region	
		73-		
12 28 15	T T. Grac.	171157		Plot 7
	209.5	Comp.		
	243.7	342		
	33.3	271		
	604	613	+2.8.1	
	212.8			
	242.2	294		+2.73
	268	370		
	638	664	+2.63	
		-a-		
	299.6			Mean = 260
	337.3	377		726
	118.7	343		986
	153.0	720	2.44	
	301.4		+2.48	
	333.0	316		
	119.2	384		
12 32 10	157.6	700	2.51	

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1921phae.proj...648C

Sept- 18-1921

12:38:20 R Coronae 154428 Plot 7

-a-

91.2	Var. Dia.		
184.0	928		
2684	982		
276.6	191.0		
	169.0	+ 0.21	
93.2			
1902	970	+ 0.21	
2698	941		
3639	191.1		
	168.9	+ 0.21	
1912		Mean =	72 + 0.08 / 728
2672	760		
3578	954		
93.2	171.4	- 0.16	
1874		- 0.04	
2752	878		
3568	964		
12 42.35 932	1842		
	1758	+ 0.08	

Too Cloudy to continue further-
Sky practically all cloudy
at - 12-48-40 -

12:48 40

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1921phae.proj..648C

22952.5

Monday Sept. 19 - 1921

22952

LC Obs.

11: 53.	R Coronae	154428	Est 7.3	
11 54	δ Cygni	213843	Est. 88	
12 2 10	– Lacertae	224937		Phot V.
		B.		
		267.6	Comp * dist.	
		367.6	100.0	
		97.6	91.8	
		1884	191.8	– 0.22
			176.2	
		2764		– 0.22
		3604	84.0	
		828	1072	
		1900	1968.2	– 0.21
		-A-		– 0.14
		955.5	108.3	Mean = ~~+0.02~~
		103.8	~~8.3~~	
		1882	75.4	
12 5 60 ±		2636	183.7	
7 50			176.3	– 0.07
12 03 55				
		6.2.	8.31	+ 0.25
22952.583		893.	670	
~~52.177~~				
0.132		1032	150.1	+ 0.17
12 640		1102		
0.011				

reject last set, anyway!
confusion in readings.

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1921phae.proj..648C

Sept 19 - 1921 -

12 10 55 22 49 37

II

A

180.0
2780 98.0
3.4 899
933 187.9 - 0.17
172.1

182.4
2662 808 - 0.29
3526 ~~488~~
1014 108.8
192.6

B 167.4 - 0.24

2612 - Mean - 0.28
3718 1106
-180.2 853
185 5 1953 - 0.30
164.1

2752
3624 872 - 0.36
818 1154
12 14 15 1972 2026
157.4 - 0.43

12 12 30

Corr X = +37.4715 (.7)

22952.509
~~12.311~~
~~0.138~~
0.017

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1921phae.proj..648C

Sept 19-1921

12 : 19 — 30 7) 224937

~~B~~

183.6	Var. dis.	Lost Region
2626	79.0	
~~36~~ 0.2	9 46	New Start
948	173.6	

III

12 29:00

-B-

7:2	Var dis.	
85-8	78.6	
184.2	870	
271 2	165.6	-027
6.8		
886	81.8	-0,38
194 2	724	
266.6	154.2	-0.49

-A-

Mean = - 0.59

1040		
1722	682	
2760	803	
3563	1485	-0.60
103.6		
1784	64.8	-0.80
2826	640	
3466	128.8	-1.00

12 33 50

12 31 25

2 [illegible] ~~0.157~~ 0.030

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1921phae.proj...648C

Sept 19 - 1921

	224937		IV
12:36.5	-A-		
	101.6		
	1705	689	
	277.4	758	
	3532	144.7	-0.68
	968		
	1768	800	-0.64
	2833	685	
	3518	148.5	-060
	-B-		Mean = -0.35
	1866		
	2687	821	
	1.6	924	
	940	174.5	-0.18
	1792		-006
	2722	930	
	4.3	857	
1239.40	900	178.7	-0.02

(2 3) 45

2295-2.926

~~0.150~~

0.036

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1921phae.proj..648C

Sept 19 - 1921

12 44 00 B-224937 V

185-5

2678	823	
7.3	741	
814	1564	0.45
1924	687	
2611	794	0.53
6.8	1481	
862		0.61

-A-

2807		Mean = -0.62
3528	721	
986	736	
1742	1457	0.66
2772		0.72
3498	726	
1048	664	
1712	1390	0.79

12 46 40

9 40

12 44 50

2295-2.5-31

+60

0.039

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1921phae.proj...648C

Sept 19 - 1921

224937 VI

12 49:30 A

281.4
3480 66.6
98.0 734
1714 1400 −077

2750 −072
3552 802
1030 654
1684 1456 −0.66
73
~~2814~~
1822 98
~~8888~~
~~2678~~

Mean = −0.61

5.8
89.7 839
190.0 694
~~12 53 40~~ 2594 1533 −0.51

9.2
85.5 783 −0.50
187.7 767
12 57 40 2644 1550 −0.48
12 53 35
22952.537
~~0.166~~
0.045

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1921phae.proj..648C

Sept 19 - 1921 -

13 0.10 224937 VII

73-

0.8

874	866	
1872	801	
2673	1667	-025

7.8

898	820	-027
	830	~~025~~
1842	1650	-029
2672		

Mean = -052

-A-

1020		
1760	740	
2855	687	
3522	1427	-072

1048		-075
1726	678	
2782	720	
13 4 10 3502	1398	-078

13 02 05

22952.543

~~0.172~~

~~620~~

0.051

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1921phae.proj..648C

Sept 19-1921

13 7: 5 224937 VIII

-a-

99.3

1742	74.9		
2830	678		
3508	1427	-0.72	
1034			
1714	680	-0,68	
2777	789		
3566	1469	-0,64	
-73-			
1852		Mean = -0.58	
2688	836		
94	740		
834	1576	-043	
1952			
2628	676	-0.48	
68	840		
13 11.30	90.8	1516	-054

13 09 12

22952.548

0.177

0.056

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1921phae.proj..648C

178

Sept 19 1921

13 15:20 224937 IX

-B-

189.4
2654 760
120 738
858 1498 −0.58

1884
2633 749
63 805 −052
868 1554 −047

-A- Mean = −0,64

2844
3554 710
1028 700
1728 1410 −075

2840
3480 640 −077
1002 750
1752 1390 −079

13 19 40

13 17 30
2252.554
.087
0.062

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1921phae.proj..648C

Sept 19 - 1921

13 21-00 224937 X

-A-

X

2818
3378 700
1044 688
1732 1388 −0,80

2814
3524 710
100.2 746 0.73
1748 1456 −6.66

-73- Mean −0,60

98
877 779
1896 733
2629 1512 −6 55

98
891 793 0,48
1844 790
13 2530 2634 1583 −0,41

13 23 15
2295 2.538
~~0.187~~
0.066

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1921phae.proj..648C

Sept 19 - 1921

13 32 40 224937 XI

B

6.2

842	780	
1858	800	
2658	1580	-042

7.2

87.4	802	-0.47
1908	724	
2632	1526	-052

-A.-

Mean = -0.62

1024		
1742	69.8	
2831	673	
3504	1371	-0.83

1030		
1724	69.0	-078
2798	732	
3530	1422	-0.73

13 36 10

13 34 28

2295-2.565

~~0.196~~

0.073

1921phae.proj..648C

Sept - 19 - 1921

~~B~~ 224937 XII

-A-

13h 42.15	100.8		
	1734	72.6	
	2844	114	
	3538	144.0	-0,69
	1032		
	1680	648	-0,78
	2814	704	
	3518	135.2	-0.87
	-B-		Mean = -0.65
	1912		
	2716	804	
	84	764	
	8488	156.8	-0,44
	1918		-0.52
	2652	734	
	98	754	
13 4650	852	148.8	-0,60

13 44 32

22952.5)3

~~0.202~~

off

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1921phae.proj..648C

Sept. 19 - 1921

	224937		XIII
	73.		
13:53 00	1930		
	2649	71.0	
	71	813	
	884	1523	−053
	191-2		
	2648	736	−0,55
	7,8	766	
	844	1502	−057
	-A-		Mean = −0.63
	2802		
	3524	72.2	
	1030	710	
	1740	1432	−071
			−0.71
	2828		
	3564	736	
	1004	694	−0.71
13 57 30	1698	1430	−092
13 55 15			
2295-2.580			
0.209			
088			

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1921phae.proj..648C

Sept 19 - 1921 -

22437 XIV

-A-

14.2.0 2782

3328 74,6

1002 137

1739 148,3 -0,61

2802

3492 69,0 - 0,69

1030 ~~620~~

1742 712

140.2 - 0,77

73

8.4 Mean = -056

8772 78.8

1842 786

2628 1574 0 43

64

8344 790 0.43

1889 783

14 6.0 2672 1573 043

14 6.0

22952.586

~~0.215~~

.094

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1921phae.proj..648C

Sept 19 - 1921

224937 XV

-B-

14: 12:15 355.2

93 3 98.1

1930 68.3

261.3 166.4 − 0.26

9.8 − 0.31

85 5 75 7

185 2 85 6

2708 161 3 − 0.36

-a- Mean = − 0.46

94 4

1730 78 6

2802 72 0

3322 150.6 − 0.56

101.3 0.62

1732 } 1.9

2802 } 2.1

14.17:30 3328 144.0 − 0.69

9 45

14 14 52

22952.594

~~0.223~~

.102

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1921phae.proj...648C

Sept 19 – 1921

224937 XVI

14,22 50 -A-

100.0		
1692	69.2	
2806	714	
3520	140.6	– 076
1026		
1738	71.2	– 0.76
2792	760	
3550	1472	– 063
B		
1848		Mean = – 050
2698	85.0	
29	865	
894	1715	– 0,16
1906		
2664	75.8	– 030
54	818	
14:2640 872	1576	– 043

14 24 20

2295 – 2.600

~~0229~~

.104

1921phae.proj..648C

Sept 19 - 1921

	224937		XVII
	-B-		
14 31.50	185.2		
	2663	811	
	36	836	
	87.2	1647	-029
	191.6		
	2690	774	-0.28
	0.0	884	
	884	1658	-027
			Mean = -0.30
	-a-		
	2778		
	3574	796	
	974	801	
	1775	1597	-089
			x2
			-0.24
	2790		
	3569	779	
	982	781	
14 35 30	1763	1560	-046

14 33 40
22952.607
~~.226~~
.115

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1921phae.proj...648C

Sept 19 - 1921

	224937		~~XVIII~~ XIX
	-B-		
14 51.35	191.4		
	2752	84.2	
	5.6	866	
	922	1708	-0.17
	1882		
	2723	841	-0.14
	2.0	898	
	918	173,9	6 -11
	-A-		
	279.8		Mean = -0,22
	356 4	76.6	
	93.3	881	
	1814	164.7	-0.29
	2780		
	3555	775	0,29
	912	872	
14 56 40	1784	1647	0 29
35			
14 54 18			
22952.621			
~~0.250~~			
.129			

Group taken out of order -
See next page for group - 18 -

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1921phae.proj..648C

Sept 19-1921

14 41 15⁻ 224937

~~XIX~~ XVIII

a

~~XVIII~~

2782		
354.3	761	
1033	727	
1760	1488	−0.60
2769		
3549	780	−0.52
96.6	786	
1752	1566	−045
−78-		Mean = − 0.36
183.8		
2722	884	
5.9	807	
866	1691	− 020
189.8		− 0.19
2669	771	
2.2	933	
95.5⁻	1704	− 0.18

14-4850
5⁻

1ᵛ 4502
22952.615⁻
~~0.244~~
.123

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1921phae.proj...648C

Sept -19- 1921—

	224937		XX
	-78-1		
1903	2712		
	3398	87.6	
	962	790	
	1752	166.6	- 0.25
	2766		
	3572	80.6	- 021
	948	901	
	1849	170.7	- 017
	A-		mean = - 0.06
	3563	9	
	949	886	
	1875	837	
	271.2	1823	
		1777	+ 0.04
	1.5-		
	961	946	
	1830	922	+ 008
15 4.25	2752	1868	
15 02 ~~60~~		173.2	+ 013
2952.~~63~~			
~~0.756~~			
.135			

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1921phae.proj..648C

Sept 19-1921

224937

XXI

-A-

15 7 30 00

942	942	
1830	882	
2712	1824	+ 0.05
	1776	

26

918	892	
1752	988	+0.10
2740	1880	+ 015
	1720	

-B-

mean = -0.01

970		
1822	850	
2741	881	
3622	1731	- 0.13

978

1780	802	
2696	940	0.12
3636	1742	- 0.11

15 12:05
19 35

15 09 48

2295 2.632

~~0.261~~

0.140

Obsd Dec = + 36.8

Obsd HA = 0:27 East

S. T. = 22:21

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1921phae.proj...648C

Thursday Sept 22 - 1921

RA Obs.

12:50	S Sagitt	213843	Est. 8-5	
11 53	R Coronae	154428	Est. 7.6	
	224937			Phot. T.
	-12-			
11 56:15	188.2	Var. dis.		
	2672	79.0		
	9.8	790		
	888	158.0	-042	
	190.0			
	2732	832		
	9.6	734		-0.44
	830	156.6	-0.45	
	A.		Mean = -0.26	
	2772			
	3633	861		
	91.6	914		
	1830	177.5	-0.05	
	268.8			0.08
	362.6	938		
	96.6	810		
11 59 10	1776	1748	-0.10	
15 25				
11 57 42				
29 55 - 499				
58 - 25				
33	457	0.120		

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1921phae.proj..648C

Sept 22 – 1921.

224937 II

-A-

12 3 00	276.8		
	35-78	810	
	84.9	949	
	189.8	175.9	-0.08
	265.2		
	365.2	1000	
	968	830	- 0,01
	179.8	183.0	
		177.0	+006
	73.		
	28		Mean = -0.02
	864	836	
	178.8	920	
	270.8	1756	-0.08
	4.6		
	908	862	-004
	1916	732	
12 7 45	2648	179.4	-0.01

12 5 22

2955.503

~~5 25~~

~~0.245~~

~~11~~

0.124

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1921phae.proj...648C

Sept 22 1921.

III

224937

12 10:28 -B-

5.2		
880	728	
1798	850	
2648	177.8	-0.04
3.0		
94.3	91.0	-0.09
1860	816	
2676	1726	-0.14
-A-		
998		
1793	793	Mean = -.002
2736	928	
366.4	172.1	-0.15
90.0		
1842	942	
2648	974	+004
12:14:30 3.67.2	1916	
	168.4	+0.22

12 12 25-

2955.502

~~2cf~~

~~0.250~~

0129

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1921phae.proj..648C

Sept 22 1921

224937

IV

-a-

12:18:40

886		
1876	990	
2732	846	
3571.8	183.6	+007
	1764	
980		
1820	940	
2676	974	+014
3650	191.4	
	168.6	+022

-78-

1763		
2788	102.5	Mean =+011
3598	90.4	
90.2	1929	+
	1671	+0.24
188.6		
2652	76.6	+008
3589	99.7	
98.6	176.3	-007

12 22 10

12 20 20

2955.514

~~258~~

~~256~~

0.135

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1921phae.proj...648C

Sept 22 1921

224937 V

B-

12 29 00 179.7
2728 991
3532 160.3
955 1934 +16.6 +026
166.4

183.8
2716 87.8 +0.24
3536 1038
97.4 191.6 +168.4 +022
168.4

A-

2732 Mean = +0.16
3588 856
86.8 1028
1896 183.4 +176.6 +0.06
176.6

2692 +0.07
363.2 940
932 901
12 33-10 1839 184.1 +175.9 + 0.08
175.9

(2 31 05

29 55 522
~~258~~
~~266~~
0.143

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1921phae.proj..648C

Sept 22 - 1921

224937

VI

-a-

12. 39. 5 271.6

3632 91.6

898 1018

1916 193.4

166.6 + 0,25

2670

3688 1018

97.4 8576 +0.20

1830 1874

1726 + 014

-B-

3584

912 92.6

1796 +932 Mean = +014

2728 2088

1858

1742 + 0.11

3563

983 1020

1862 808 908

12 43 20 2670 1772 + 0.05

12 47 12

2955 528

~~251~~

~~270~~

0.149

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1921phae.proj...648C

Sept 22. 1921.

224937

B.

VII

125040	1. 1		
	90 6	989.5	
	181.8	809	
	272.7	180.4	~~-0.18~~ +0.01
	03	149.6	
	95.1	948	
	1866	830	-0.02
	2696	177.8	-0.04

-a-

	97.6		Mean = -0.03
	1833	857	
	2686	937	
	3623	1794	-001

	932		
	185.5	923	
	2736	834	-0.04
125400	3560	175.7	-008

125220

2933536

~~.25f~~

~~.27f~~

0.157

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1921phae.proj..648C

Sept 22 - 1921

224937

VIII

a.

12 57.20 96.0

185 6 89.6

265 0 1010

360 0 2006

1579 + 039

893

185.3 960 +0.14

2760 780

35.42 1740 − 0.11

B. Mean = +0.10

1834

2678 844

3528 1010

938 1854

1746 + 0.10

181.7

2728 911 +0.06

1.1 89.7

908 1808

1292 + 002

~~13 1 00~~

12 59 10

2955.541

~~257~~

~~260~~

0.162

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1921phae.proj...648C

Sept 22 – 1921

	224937		IX
	-B-		
13 6:45	1912		
	2698	786	
	1.1	921	
	932	1707	−0.17
	1828		
	2696	868	−0.12
	5.3	897	
	950	1767	−0.06
	-a-		
	271.2		
	3618	906	Mean = −016
	96.6	796	
	1762	1702	−0.19
	277.2		−020
	3371	799	
	922	886	
13 10.15	180.8	1685	−022
130 30			
2955.548			
~~25~~			
~~.290~~			
0.169			

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1921phae.proj..648C

Sept 22 - 1921.

224937 X

13-15-05 a.

2698		
3598	80.0	
987	777	
1764	1671	−0.52 0.23
2754		
3563	809	−0.22
948	872	
1830	1681	−0.22

-73-

96.4	count*	mean −0.28
1874	91.0	
2636	1030	−
3666	1940	±0.26
	1660	
85-5-		−0.35
1874	1019	
2660	1020	
3680	2029	−0.46
	1571	

13 20 15
35 20
13 17 40
2955.554
~~217~~
~~196~~
~~33~~
.175

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1921phae.proj...646C

Sept 22-1921-

224937

73

13:25:5 8.2

888	80.6	
1858	784	
2642	1590	-040

8.2

918	836	-0.44
1898	716	
2614	1552	-0.47

-A-

976

Mean = -0.32

1736	760	
2722	836	
3558	1796	-0,01

973

-021

1778	805	
2764	780	
13 29:45 3344	1585	-041

13 27 25 —

2955 960

~~256~~

~~902~~

0.181

XI

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1921phae.proj..648C

Sept 22. 1921

224937

~~XII~~

a-

13 34:00 1028

1752 72.4

2727 837

3550 1561 -046

973

1804 831 -0.40

2736 797

3533 1628 -033

B.

1952 Mean = -046

2594 642

33 850

883 1492 059

0.52

1930

2689 750

58 818

13 39 10 87.4 1568 -0.44

13 10

13 36 35

2955.567

~~218~~

~~309~~

0.188

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1921phae.proj..648C

Sept 22-1921

224937 — XIII
TB.

13:45 30	1942		
	2592	650	
	77	767	
	844	1417	-074
	1906		
	2624	718	
	98	718	-072
	816	1436	-070
	-a-		
	2772		Mean = -0.66
	3510	738	
	1014	738	
	1752	1476	-062
	2816		
	3559	743	-060
	992	760	
13 49.40	1752	1503	-057

13 4) 35
29 55. 3. 75
~~218~~
~~.317~~
0.196

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1921phae.proj..648C

Sept 22- 1921

	224937		XIV
	-a-		
13 53.45	280.8		
	349.8	690	
	98.2	772	
	1754	1462	0.65
	2822		
	3484	862	-0.54
	1042	716	
	1758	157.8	-042
	-73-		
	7.0		Mean = -058
	884	814	
	1928	670	
	2598	1484	-061
	12.0		
	828	708	
	1894	754	-062
13 57 05	2648	1462	-065

13 55 25

2955.580

~~111~~

~~001~~

.201

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1921phae.proj...648C

Sept 22

224937 XV

73.

14 9:50 7.2

87.2 80.0

191.4 720

2634 1520 -0.57

123

802 679 -070

1936 680

2616 1359 -086

A- Mean = -076

1048

1714 726

2808 650

3458 1376 -0.82

1033 -0.82

1718 683

2812 691.

14 13.50 3503 1374 -083

16 11 50

2955.591

~~579~~

.012

.212

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1921phae.proj..648C

Sept 22 - 1921.

224937

XVI

A

14 17:00	102.0	728	
	1748	~~680~~	
	2874	~~625~~	
	3499	~~708~~	-085
		135.3	
	1052		
	1717	665	087
	2817	690	
	3507	135.5	-0.87
	-78-		
	1894		-0.78
	2676	782	Mean = ~~080~~
	110	694	
	804	1476	-062
	1984		
	2636	652	0.68
	97	765	
14 2130	862	1417	074

16 19 15

2955.597

~~577~~

~~018~~

0.218

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1921phae.proj...648C

Sept 22 1921-

~~22~~ 24937 B-

XVII

14-26-30

1940		
2662	720	
9.0	692	
782	141.2	-0.75
1932		
2636	704	-078
108	676	
784	1380	-081
-V-		
1906		-0.71
2630	724	
1.3	841	
85.4	1565	-045
1914		
2636	722	-06K
130	654	
14 31 50 78.4	1376	-0.82

57.30

14 28 45-

2955.603

~~+75~~

~~.024~~

.224

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1921phae.proj..648C

Sept 22 - 1921

224937 XVII

a

14:36:05 198.4

2592 608

11.4 700

814 730.8 096

1944

2622 698 -092

138 646

784 734.4 089

-73- Mean = -.088

2900

3486 58.6

100.3 78.6

1789 ~~57.2~~ 137.2 -083

2774 0.76

3546 772

1062 660

1 1722 1732 0.71

14 48 30

77 35

14 38 48

2955.610

~~577~~

~~071~~

231

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1921phae.proj...648C

Sept 22 - 1921 -

224937

XIX

- B -

14 4700	2848		
	3488	640	
	978	718	
	1696	1358	-0.86
	2792		
	3473	681	-0.88
	1044	664	
	1708	1345	-0.89

A

	96		Mean = -.078
	804	708	
	1908	747	
	2655	1455	-0.66
	72		
	847	775	-0.69
	1962	654	
14 5230	2616	1429	-.072

9930

14 49 45

29556 1/2

~~579~~

~~039~~

.239

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1921phae.proj..648C

Sept 22 - 1921

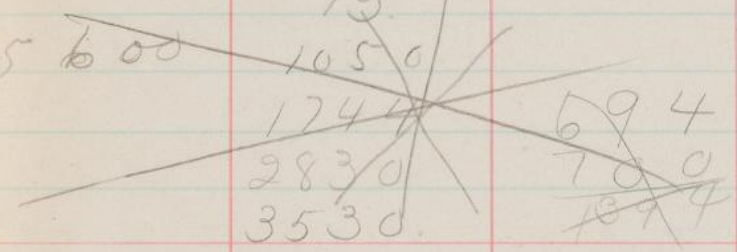
	224937	~~XX~~	
	a -		
14÷58 10	132		
	836	704	
	1962	668	
	2630	137.2	0.83
	68		
	822	754	−0.82
	1970	632	
	2602	1386	0.80
	73		
	~~1104~~	water below	
	1684	580	mean = −0.80
	2827	~~625~~	
	~~3452~~	1205	~~118~~
	1010		
	1690	680	
	2864	710	
~~1 03 00~~	3474	1390	−0.79
	1050		
	1746	696	−0.79
	2830	700	
1 07 50	3530	139.4	−0.79

125 10
15 02 35
2953.62
0248

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1921phae.proj..648C

Sept 22 – 1921



	224937		XXI
	73		
15 600	1050		
	1244	694	
	2830	700	
	3530	~~1374~~	
	-B-		
15 1050	1010		
	1700	690	
	2850	648	
	3498	1338	-0.80
	1040		
	1727	687	-082
	2804	674	
	3478	1361	0.85
	a		Mean = -0.78
	1900		
	2668	768	
	134	668	
	199	1433	071
	1952		074
	2653	701	
	100	700	
15 1530	802	1401	~~0.98~~ 077

15 6 20
15 13 10

Observations increasingly difficult toward the end—

2955 634 ~~4455~~ 3255

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1921phae.proj...648C

Friday Sept 23 1921

LL obs. Plate +, +2"

224937 I Phot T.

B-

11:49:00 89.8 Comp*dis.

1822	9.24	
269.6	937	
363.3	1861	-
	173.9	*0.11

858

1892	1034	
275.8	828	-0.12
3586	186.2	-
	1738	+012

A-

1908		
265.6	748	Mean = +0.07
355.3	963	
91.6	171.1	+017

184.6

2696	850	+0.26
~~13.0~~ 9.8	764	
852	161.4	+3.36

11 53 25

11 51 12

11 57 37

22956496

~~6.220~~

~~0.246~~

0.153

C's watch = 25 sec. slow.

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- Sept 23 - 1921 -

	224937		II
7	(A)		
11 57:20	188.4		
	2700	824	
	2.2	900	
	922	1724	+014
	181.1		
	2722	911	
	6.6	810	+0.14
	876	1721	+015
	(73)		8
	2718		Mean +0.0
	3568	800	
	922	970	
	1892	1770	+006
	2633		
	3613	980	+0.01
	929	840	
201 40	1769	1820	
		1779	+-004
11 59 20			
11 59 55			
22956.500			
~~6.240~~			
~~0290~~			
0.159			

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1921phae.proj..648C

Sept 23-1921

224937

(73)

III

127-10 2702

3602 90.0

91.8 95.0

1868 185.0

1750 − 0.09

2652

3668 101.6

95.2 876 −013

1828 189.2

1708 − 0.17

(a)

~~902~~

3.8 Mean = − 0.10

914 87.4

179.8 946

2744 1820

1780 − 004

356.3

95.0 98.7

1813 875 - 0.08

12:1130 2688 1862

1738 − 0.12

12 09 20

12 09 45

2956.507

~~270~~

~~56.297~~

0.166

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1921phae.proj...648C

Sept 23 - 1921 -

224937 IV

a

~~2~~

12:14:10 38
958 925
1738 1000
2738 1925
1675 −024

0.2
1052 1050
1863 829 −020
2692 1879
1721 −015

(B)
948
1828 880 Mean = −022
2622 1076
3698 1976
1624 −033

882
1918 1036
2714 845 −024
12 18:30 3589 1881
1719 −015
12 16 20
12 16 45
2295.572
~~56.210~~
~~0.302~~
0.171

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1921phae.proj..648C

Sept 23 1921

224937 V

TB

12 21.20 6·2 Van. dec.

921	85·9	
1878	740	
2618	159.9	−038

33

863	830	−031
1876	846	
2722	1676	−0,24

A

940 Mean = 032

1796	856	
2796	756	
3552	161.2	−0.36

993

1749	756	−033
2729	887	
3618	1643	−0.30

12 25·30

12 23 25

12 23 50

22956.5 617

~~316~~

0.307

0.176

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Sept 23 - 1921

	224937		VI
	10 a -		
12 29	962		
	1842	880	
	2774	784	
	3558	1664	-0.26
	100.8		
	1762	754	-026
	2688	910	
	3598	1664	-026
	73.		
	1829		mean = -031
	2694	865	
	116	737	
	853	1602	-038
	1937		036
	2708	771	
	34	850	
12	3345 884	1621	-0.34

12 31 24
12 31 53
22956, 522
345
~~56. 2 [illegible]~~
~~0. 1 1 2~~
0. 181

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1921phae.proj..648C

Sept 23 - 1921

224937
(73)
12 35-30 181.8

2684	866	
7.4	794	
868	166.0	-027
1886		
260.4	718	
2.8	862	-039 4
89.0	~~148.0~~	
	158.0	-042

a

278.2		
3564	782	mean = -041
1014	75-2	
1766	1534	-051

2766		-048
3548	782	
1016	776	
1792	1558	046

2
1 39 40

12 37 35
12 38 00
2295.526
~~210~~
~~0.316~~
0.185

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1921phae.proj,.648C

Sept 23 1921

224937 VIII

(a)

12:43:55 274.2

3562 820

100.3 781

1784 1601 -0.38

2832

3553 721 -0.39

977 870

1847 1591 -0.40

(B)

~~877~~

~~92.2~~ mean = -0.44

188.2

2646 76.4

98 776

874 1540 -0.50

1918 -050

261.8 700

3.4 834

12 49.50 86.8 1534 -051

12 46 52

12 47 17

2956.533

~~56.530~~

~~0.003~~

0.192

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Sept 23 - 1921

	224937		IX
	- B -		
12 54.50	185.8		
	2644	78.6	
	6.2	850	
	912	1636	- 0.31
	190.4		
	2620	716	-034
	1.8	892	
	910	1608	- 037
	- a -		
	275.8		mean = 044
	3536	778	
	1050	682	
	1732	1460	-0.65
	2802		054
	3530	728	
	952	840	
12 59.30	1792	1568	- 044

12 57 20 50

22956.540
6341
0.199

Continued in next Book

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FINIS.

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