KG
11365
621

1917

KG 11365.621

KG 11365.621

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August 5 — 1917
Cont from Book 196
Juno

VII

	Pa 150°		
10.07.10	72.2		
	127.4	55.2 ✓	
	250.6	59.8 ✓	
	310.4	115.0 ✓	— 1.30 ✓
	~~7~~		
	75.0	✓	
	129.5	54.5 ✓	— 1.30 ✓ —
	251.2	60.8	
	312.0	115.3 ✓	— 1.30 ✓
	Pa 330°		Mean = — 1.18 ✓
	163.1	✓	
	223.3	60.2 ✓	
	338.2	67.6 ✓	
	45.8	127.8 ✓	— 1.03 ✓
	160.0	✓	
	221.8	61.8	— 1.06 ✓ —
	342.8	62.4 ✓	
10.11.50	45.2	124.2 ✓	— 1.10 ✓

10 09 30
10 08 15

21446.630

August 5-1917

Juno

VIII

Pa 330

10.22.50 161.6
217.8 56.2
336.0 70.6
46.6 126.8 — 1.05

163.3 —1.02
226.6 63.3
338.0 66.1
44.1 129.4 —0.99

Pa 150 Mean = -1.13

252.2
307.7 55.5
72.0 62.6
134.6 118.1 — 1.23

254.4
312.8 58.4 —1.24
73.6 58.8
1.027.35 132.4 117.2 —1.25

25
10 25 12
10 23 57
21446 642

August 5, 1917

Juno

IX

	P.a 150		
10.34.10	256.8		
	310.6	53.8	
	72.2	59.9	
	132.1	113.7	— 1.33
	247.2		
	312.8	65.6	— 1.30
	75.0	51.2	
	226.2	116.8	— 1.26
	P.a 330		Mean = —1.22
	* 341.5		
	41.0	59.5	
	159.2	64.6	
	223.8	124.1	— 1.10
	341.2		
	46.8	65.6	— 1.14
	166.5	54.4	
10.39.00	219.9	120.0	— 1.19

10 36 35

10 35 20

21446.649

P.a. = 317A

Sp. = 3.2

Tues. Aug 7, 1917

L C Olivier 15" Equat.

Juno (3)

20 20 – 3.5 Phot I

17 45

2 35 E

I

Pa. 260

8 41.0 ~~348.0~~ < comp ✱ dis

31.6 43.6

170.7 43.5

214.2 87.1 + 1.99

346.6

36.4 49.8 + 1.97

172.6 37.9

210.5 87.7 + 1.95

Pa. 80

84.4 mean = + 2.08

121.7 37.3

259.4 42.0

301.4 79.3 + 2.22

81.8 + 2.18

121.4 39.6

258.9 42.5

8 46.6 301.4 82.1 + 2.13

8 43.8 Comp ✱ = – 5°.5196 (7.0) Focus = 5 – 85

8 44.0

2144 8.572 (855) 20ʰ 7ᵐ.9 – 5° 58'

August 7, 1917

Juno:

II

	P.a. 80		
8 52.0	83.3		
~~8~~	125.4	421	
	258.8	478	
	302.6	89.9	+1.92
	79.4		+2.03
	124.7	45.3	
	260.6	.364	
	297.0	81.7	+2.14
	P.a 260		Mean = +2.06
	171.8		
	210.4	38.6	
	350.4	448	
	35.2	83.4	+2.10
	172.3		+2.10
	215.2	42.9	
	352.4	400	
8 57.4	32.4	82.9	+2.11
8 54.7			
8 54.9			

21448.580

9 00 Cs watch = 12^s slow by bell

August 7, 1917
Juno

	P.A. 260		III
9 04.7	174.8		
	212.6	37.8	
	350.0	44.4	
	34.4	82.2	+ 2.13
	170.0		+ 2.06
	214.4	44.4	
	350.0	42.4	
	32.4	86.8	+ 2.00
	P.A. 80		Mean = + 2.10
	262.3		
	299.8	37.5	
	80.4	43.4	
	123.8	80.9	+ 2.17
	258.8		+ 2.15
	300.3	41.5	
	80.0	40.6	
9 10.5	120.6	82.1	+ 2.13
9 07.6			
9 07.8			
21448.589			

Aug. 7, 1917

Juno

IV

	Pa 80		
9 15.8	263.3		
	297.3	34.0	
	80.6	41.2	
	121.8	75.2	+2.34
			+2.12
	254.7		
	302.7	48.0	
	79.9	42.3	
	122.2	90.3	+1.91
	Pa 260		Mean = +2.07
	352.2		
	31.4	39.2	
	168.8	47.6	
	216.4	86.8	+2.00
	350.4		+2.02
	37.7	47.3	
	172.7	37.7	
9 21.2	210.4	85.0	+2.05
9 18.5			
9 18.7			
21448.597			

August 7, 1917

Juno

V

Pa. 260

9 25.8 350.2

31.6 41.4

170.4 42.2

212.6 83.6 + 2.09

350.2 + 2.13

33.3 43.1

171.4 37.9

209.3 81.0 + 2.17

Pa. 80 mean = + 2.04

78.4

120.4 42.0

257.5 45.2

302.7 87.2 + 1.99

+ 1.96

80.3

126.6 46.3

259.2 43.6

9 31.0 302.8 89.9 + 1.92

9 28.4

9 28.6

2144f.603

Sfr = 6.1

Pa 75.4

August 7, 1917

Juno

P.a. 80 VI

9 37.7 81.0
121.8 40.8
258.6 46.9
305.5 87.7 + 1.98

+ 2.1~~8~~3

80.0
119.4 39.4
261.0 37.9
298.9 77.3 + 2.28

P.a. 260 mean = + 2.1~~6~~4

174.4
212.0 37.6
351.6 40.2
31.8 77.8 + 2.26

173.6 + 2.14
211.4 37.8
343.8 48.8
9 42.5 32.6 86.6 + 2.01

9 40.1
9 40.3
21448.611

August 7, 1917

Juno

VII

	P.a. 260		
9 47.5	169.4		
	211.0	41.6	
	350.0	42.2	
	32.2	83.8	+ 208
	171.7		+2.09
	209.8	38.1	
	347.6	45.0	
	32.6	83.1	+ 2.10
	P.a. 80		Mean = +2.05
	257.1		
	302.4	45.3	
	78.8	43.4	
	122.2	88.7	+ 1.95
	261.3		+ 2.01
	299.2	37.9	
	78.4	46.3	
~~9 52.7~~	124.7	84.2	+ 2.07
9 50.1			
9 50.3			
21448.618			

August 7, 1917

Juno

	P.a. 80		VIII
9 58.2	257.8		
	301.3	435	
	81.8	438	
	125.6	873	+ 1.99
	260.4		+ 2.08
	300.6	402	
	81.6	410	
	122.6	812	+ 2.16
	P.a. 260		mean = + 2.08
	343.8		
	32.8	490	
	175.2	346	
	209.8	836	+ 2.09
	349.8		+ 2.07
	30.8	410	
	169.6	440	
10 03.0	213.6	850	+ 2.05
1.2			
10 00.6			
10 00.8			
21448.626			

August 7, 1917

Juno

	P.a. 260		IX
1010.4	352.4		
	32.4	40.0	
	168.4	47.8	
	216.2	87.8	+ 1.97
			+ 2.00
	347.6		
	32.0	44.4	
	172.6	41.0	
	213.6	85.4	+ 2.04
	P.a. 80		mean = + 2.12
	80.4		
	117.7	37.3	
	263.7	38.3	
	302.0	75.6	+ 2.33
			+ 2.24
	77.8		
	123.2	45.4	
	263.6	36.1	
1016.7	299.7	81.5	+ 2.15
1013.6			
1013.8			
21448,635			

August 7, 1917

Juno

	P.A. 80		X
10 23.8	82.2		
	122.2	400	
	260.8	432	
	304.0	832	+ 2.10
			+ 2.14
	77.4		
	121.4	440	
	263.2	367	
	299.9	807	+ 2.17
	P.A. 260		Mean = + 2.07
	173.3		
	212.4	391	
	34 247.8	476	
	35.4	867	+ 200
	168.3		+ 200
	215.6	473	
	351.0	394	
10 29.8	30.4	867	+ 200
10 26.8			
10 27.0			
21448.644			

August 7, 1917

Juno

	Pa 260			XI
10 39.5	172.2			
	212.6	40.4		
	349.8	41.6		
	31.4	82.0	+ 2.14	
			+ 2.09	
	170.7			
	214.6	43.9		
	350.7	41.6		
	32.3	85.5	+ 2.04	
	Pa 80		Mean = + 2.07	
	261.6			
	304.0	42.4		
	80.2	45.2		
	125.4	87.6	+ 1.98	
			+ 2.05	
	260.0			
	298.6	38.6		
	77.7	43.9		
10 44.7	121.6	82.5	+ 2.12	

10 42.1

10 42.3

21448.654

August 7, 1917
Juno

P.A. 80 XII

10 53.2 257.2
305.6 48.4
83.0 35.8
118.8 84.2 +2.07

266.4 +2.09
300.6 34.2
74.8 48.6
123.4 82.8 +2.11

P.A. 260 Mean = +2.08

350.0
34.6 44.6
170.8 42.4
213.2 87.0 +2.00

354.8 +2.08
32.2 37.4
171.6 43.8
10 58.4 215.4 81.2 +2.16

10 55.8
10 56.0
2144.8. 664 Sure of Juno, but no apparent change in its light from these obs.

Juno all ledgered

Sfr 5.8
P.A. 215.0 A
0.12 w
Dec -5.8

Wed. Aug. 8. 1917

L.C. Obs. 15^{in} E. Eq.   L.C. Jr. Rec

Iris.   Plat T

17 40   −14.0
17 40
2 00   E −14.0

9 00   C's Watch = 10^{s} slow by bell
Comp * = −14° 5559 (f. 2)

P.A. 250   I

8 53 00   132.4 < comp * dis.
213.6   81.2
322.2   62.2
24.4   143.4   +0.71

~~P.A. 70~~

142.4
~~211.7~~   +0.69
208.3   65.9
313.2   79.2
32.4   145.1   +0.67

P.A. 70   mean = +0.40

36.0
129.6   93.6
222.4   78.8
301.2   172.4   +0.14

+0.12
8 56 25   41.8   80.6
8 56 35   122.4   94.5
214.7   175.1   +0.09
8-59-50   309.2   21449.581

Wednesday August, 8/1917

~~L.C. Ob.~~ Iris ~~L.C. J Rec.~~

II

	P.a. 70		
9 5-20	42.2 < comp * dis		
	122.6	80.4	
	224.8	79.9	
	304.7	160.3	+ 0.38
	48.2		+ 0.34
	2122.9	74.7	
	219.2	89.2	
	308.4	163.9	+ 0.30
	P.a 250		mean = + 0.35
	219.3 < Iris dis		
	308.2	88.9	
	34.3	107.9	
	142.2	196.8	
		163.2	+ 0.32
	212.0		+ 0.36
	317.8	105.8	
	37.7	95.3	
	133.0	201.1	
9-9-40		158.9	+ 0.40

9 07 30
9 07 40

21449.589

Aug. 8, 1917

Iris.

III

P.a. 250

9 15 30 130.4 < Comp * dis.

218.8 88.4

317.0 72.2

29.2 160.6 + 0.37

+ 0.46

142.0

205.8 63.8

309.0 86.8

36.8 150.6 + 0.56

P.a. 70 Mean = + 0.39

217.6

310.6 93.0

49.0 69.7

118.7 162.7 + 0.33

+ 0.32

2217.7

302.0 74.3

39.2 89.6

9 - 20 - 0

9 ~~14 0~~ 128.8 163.9 + 0.30

9 17 45

9 17 55

21449.596

Aug 8, 1917

Iris

IV

P.A. 70

9-25-30 220.6

306.8 86.2

44.4 81.4

125.8 167.6 + 0.24

+ 0.32

227.8

301.4 73.6

44.7 85.1

129.8 158.7 + 0.41

P.A. 250 mean = + 0.33

308.8

34.7 85.9

132.4 79.9

212.3 165.8 + 0.27

+ 0.34

320.0

33.1 73.1

132.2 85.2

9-29-20 217.4 158..3 + 0.41

9 27 25

9 27 35

21449.603

Aug. 8. 1917

Iris V

	Pa 250		
9-34-30	314.8		
	38.2	83.4	
	133.7	83.0	
	216.7	166.4	+ 0.26
			+ 0.28
	316.6		
	28.4	71.8	
	129.9	91.9	
	221.8	163.7	+ 0.31
	Pa 70		mean = + 0.31
	36.7		
	131.4	94.7	
	227.3	69.1	
	296.4	163.8	+ 0.31
	49.9		+ 0.34
	121.0	71.1	
	218.7	89.9	
9400	308.6	161.0	+ 0.36

9 37 15

9 37 25

21449.609

Aug. 8 - 1917

Iris VI

	P.a. 70		
9 44-40	43.1		
	126.8	83.7	
	228.0	75.4	
	303.4	159.1	+ 0.40
	45.5		+0.36
	18.4	72.9	
	218.9	90.3	
	309.2	163.2	+0.32
	P.a. 250		mean = +0,28
	123.2		
	217.8	94.6	
	316.6	76.8	
	33.4	171.4	+0.16
	136.7		+0.20
	214.2	77.5	
	310.0	89.2	
9 48-40	39.2.	166.7	+0.25

9 46 40
9 46 50
21449.616

Aug 8, 1917

Iris VII

	Pa 250		
9-59-40-	129.6		
	224.2	94.6	
	312.2	82.5	
	34.7	177.1	+ 0.05
			+0.12
	132.0		
	218.2	86.2	
	316.9	729	
	29.8	169.1	+ 0.20
	Pa 70		mean = +0.14
	223.3		
	304.2	80.9	
	31.1	98.3	2
	129.4	179.2	+0.03
			+0.16
	218.3		
	312.2	93.9	
	48.4	700	
9-58-50	118.4	163.9	+ 031

9 56 45

9 56 55

21449.623

Aug 8 - 1917

Iris VIII

	P.a 70		
10-3-40	225.6		
	301.4	75.8	
	35.0	95.0	
	130.0	170.8	+ 0.17
	213.4		+ 0.14
	313.2	99.8	
	46.2	74.2	
	120.4	174.0	+ 0.11
	P.a. 250		mean = + 017
	317.6		
	29.4	71.8	
	126.0	94.5	
	220.5	166.3	+ 0 26
	306.4		+ 0 20
	43.8	97.4	
	135.3	75.5	
10-8-40.	210.8	1729	+ 0 13
10 6 10			
10 6 20			

21449.629 Rope for clock broke!

Aug 8. 1917

Iris. IX

	P.a. 250		
10-14-10	316.2	82.0	
	38.2	93.6	
	126.6	175.6	+0.08
	220.2		
			+0.04
	307.3		
	X41.4	104.1	
	132.7	76.5	
	209.2	180.6	
		179.4	-0.01
	Pa 70		mean = +0.07
	45.3		
	119.2	73.9	
	213.3	93.9	
	307.2	177.8	+0.04
	33.7		+0.10
	131.4	97.7	
	226.4	74.3	
10-18-50	300.7	172.0	+0.10
10 16 30			
10 16 40			
21449.637			

Aug. 8–1917

Iris

X

	P.a. 70		
10-25-10	43.3		
	128.3	75.0	
	218.2	92.1	
	310.3	167.1	+0.24
	36.4		+0.20 -
	127.7	91.3	
	224.4	79.8	
	304.2	171.1	+0.17
	P.a. 250		mean = +0.18
	133.1		
	212.2	79.1	
	305.5	95.3	
	40.8	174.4	+0.11
	132.0		+0.17
	219.4	87.4	
	308.2	80.6	
10-29-45	28.8	168.0	+0.23

10 27 28
10 27 38
21449.644

Obs. diff. as telescope has to be moved by hand since group VIII

Aug. 8 - 1917

Iris XI

	P.a. 250		
10-35-0	132.2		
	216.4	84.2	
	310.2	88.2	
	38.4	172.4	+ 0.14
	129.6		+ 0.19
	218.6	89.0	
	314.4	78.5	
	32.9	167.5	+ 0.24
	P.a. 70		mean = +0.22
	223.8		
	306.4	82.6	
	38.2	89.6	
	127.8	172.2	+ 0.15
	224.4		+ 0.25
	312.8	88.4	
	45.7	73.2	
10-39-30	118.9	161.6	+ 0.35

10 3} 15
10 3} 25

Too diff. to obs. any further with the need to push telescope by hand.

21449.651

p.a. 75° A
Str 4.2

1+a 0.27 w
S.T. 20 03
Dec = −14.7

Friday. August 10th, 1917

15" E. Eq.

L.C. Obs. L.C. Er. Rec.

Iris (7) Phot T.

19 36 −14.7

17 40

1 56 E

HA54

Comp ✱ = − 14°.5525 (8.7) = 9.06

P. A. 100 (855 Pos) = 19h 36.0m − 14 52

8-24-40 33.6 ∠ ~~comp ✱~~ Iris dis

132.2 98.6

219.8 83.2

303.0 181.8

178.2 + 0.03

I

44.4

129.8 85.4 + 0.04

216.6 96.6

313.2 182.0

178.0 +. 0.04

P. A. 280

Mean = ∓ 0.15

9.06

mag = 8.91

128.4

217.2 88.8

316.6 74.8

31.4 163.6 ∓ 0.31

∓ 0.34

138.4

209.8 71.4

307.8 89.6

161.0 ∓ 0.36

at 8:30 { PA 275 A / 8 pr 9.0 }

8-29-0.

8 26 50

37.4

2 1451. 560

August 10, 1917

Iris

	Pa. 280			II
8-36-10	131.6			
	217.4	85.8		
	320.4	68.4		
	28.8	1542	$\bar{\ast}$ 0.49	
	137.6		$\bar{\ast}$ 0.42	
	209.8	72.2		
	307.6	89.8		
	37.4	162.0	$\bar{\ast}$ 0.34	
	PA. 100		Mean = $\bar{\ast}$ 0.26	
	217.2		9.06	
	307.8	90.6	8.80	
	40.8	79.9		
	120.7	170.5	$\bar{\ast}$ 0.18	
	222.8		$\bar{\ast}$ 0.10	
	303.6	80.8		
	32.7	977		
8-40-40	130.4	178.5	$\bar{\ast}$ 0.03	
8 3A 25				
2145 1.568				

August 10, 1917

III

P.a. 100

8-46-50 213.0
311.4 98.4
36.6 84.1
120.7 182.5
177.5 + 0.05

224.7 ∓ 0.09
303.6 78.9
37.7 89.1
126.8 168.0 ∓ 0.23

P.a. 280

Mean ∓ 0.20
9.06
8.86

306.4
34.4 88.0
134.6 78.8
213.4 166.8 ∓ 0.25

314.7 ∓ 0.32
24.8 70.1
130.7 88.9
8-51-0 219.6 159.0 ∓ 0.40
9 7 50
8 48 55

Clouds over region at 8:55

2145/.5775

aug. 10, 1917

	P.a. 280			IV
8 ⊥ 9-7 20	310.8			
	35.5	847		
	133.3	749		
	208.2	159.6	$\bar{*}$ 0.39	
	317.4		$\bar{*}$ 0.43 3	
	28.7	71.3		
	134.3	840		
	218.3	155 3	$\bar{\#}$ 047	
	P.a. 100		mean = $\bar{\#}$ 0.28	
	30.4			9.06
	129.8	99.4		8.78
	223.8	76.0		
	299.8	175.4	$\bar{\#}$ 0.09	
	47.2		$\bar{\#}$ 0.12	
	124.0	76.8		
	214.3	951		
9-12-0.	309.4	1719	$\bar{\#}$ 0.13	
9 09 40				
21,451.590				

August 10, 1917.

V

P.a. 100

9-17-20 31.8
131.0 99.2
224.0 79.0
303.0 178.2 ∓0.03

37.7
125.5 87.8 + 0.01
217.6 95.0
312.6 182.8
177.2 + 0.05

P.a. 280 Mean = ∓0.14
9.06
8.92

129.3
219.2 89.9
317.8 72.9
30.7 162.8 ∓0.33

∓0.30

137.2
213.3 76.1
309.6 89.0
9-22-0 38.6 165.1 ∓0.28

39 20

9. 19 40

21451.597

August 10, 1917

Iris

VI

P.a. 280

9 27-38 130.3 < Iris obs

219.3 89.0

313.4 73.4

26.8 162.4 $\bar{*}$ 0.33

$\bar{*}$ 0.28

133.8

215.6 81.8

309.8 86.8

36.6 168.6 $*_{-}$ 0.22

P.a. 100

Mean = $\bar{*}$ 0.21

215.0 9.06

312.2 97.2 8.85

42.2 76.6

118.8 173.8 $\bar{*}$ 0.12

$\bar{*}$ 0.14

227.8

307.2 79.4

37.2 92.6

9-32-05 129.8 172.0 $\bar{*}$ 0.15

9 35

9 29 48

21451.603

August 10, 1917

Iris

	PA 100		VII
9-42-15	217.8	< Iris dir	
	308.6	90.8	
	43.1	86.9	
	130.0	177.7	± 0.04
			− 0.10
	221.2		
	300.4	7.92	
	37.4	926	
	130.0	171.8	± 0.16
	Pa 280		Mean = −0.26
	308.4		9.06
	34.2	85.8	8.80
	140.4	69.9	
	210.3	155.7	− 0.46
			− 0.42
	315.3		
	27.2	71.9	
	130.2	881	
9-47-0	218.3	1600	− 0.38

$9\ 1^{5}$

$9\ 4H^{38}$

21 45 16 14

aug *10, 1917

Iris

P.a. 280 VIII

9–50–15 306.8 <* Iris dis
34.6 87.8
134.0 80.6
214.6 168.4 — 0.22

309.6 — 0.25
30.4 80.8
131.6 84.6
216.2 165.4 — 0.28

P.a. 100 Mean = −0.20
32.2 9.06
130.8 98.6 8.86
226.8 72.2
299.0 170.8 — 0.17

44.2 — 0.15
119.8 75.6
216.0 97.6
9–58–40 313.6 173.2 — 0.13

11 55
9 55 58
9 55 06
214 51.621
10 00

C's watch = 52 sec fast by lell

Aug. 10, 1917

P.a. 100 IX

10-810 38.4 94.2
132.6 79.5
222.2 173.7 — 0.12
302.7

— 0.16

40.2
121.6 81.4
221.2 88.1
309.3 169.5 — 0.20

P.a. 280 mean = – 0.22
135.6 906
218.2 92.6 884
316.4 70.4
26.8 163.0 — 0.32

— 0.28
137.8
216.4 78.6
307.0 88.8
10-13-0 35.8 1674 — 0.24
21 10

10 10 35
10 09 43
21 45 L631

Aug. 10 – 1917

Iris

X

	P.A. 280		
10 21-40	128.6		
	218.6	90.0	
	317.9	70.0	
	27.9	160.0	— 0.38
	190.3		— 0.42
	207.3	67.0	
	306.7	89.5	
	36.2	156.5	— 0.45
	P.a. 100		Mean = − 0.25
	217.2		906
	311.7	94.5	881
	46.2	77.6	
	123.8	172.1	— 0.15
	226.6		— 0.08
	304.4	77.8	
	29.6	101.1	
10—26 75	130.7	178.9	— 0.02

7 55
10 23 58
10 22 06
21451.640

Aug. 10 – 1917

Iris.

	P.a. 100			XI
10-34-50	219.7	96.1		
	313.8	90.0		
	39.7	186.1	+ 0.11	
	129.7	1739		
			+0.12	
	224.0			
	305.3	81.3		
	28.7	105.5		
	134.2	186.8	+0.13	
		1732		
	P.a. 280		mean =	+0.01
	304.0			906
	36.8	92.8		907
	134.2	77.1		
	211.3	169.9	− 0.19	
			− 0.10	
	310.9			
	29.2	78.3		
	122.1	101.6		
10-40-0	2$\overset{2}{\cancel{3}}$3.7	179.9	−000	
10 37 $\frac{25}{52}$				
10 36 39				
21451.650				

Aug. 10, 1917
Iris

	P.a. 280		XII
10-46-20	307.6		
	39.4	91.8	
	133.8	80.8	
	214.6	172.6	− 0.14
	312.4		− 0.18
	26.9	74.5	
	126.2	94.2	
	220.4	168.7	− 0.21
	P.a. 100		Mean = −0.0~~8~~4
	30.6		9.06
	135.2	104.6	9.02
	2~~1~~^{2}5.4	81.8	
	307.2	186.4	+ 0.12
		173.6	
	42.7		+ 0.10
	123.2	80.5	
	211.7	103.3	
10-51-0	315.0	183.8	+ 0.07
9 7 20		176.2	
10 48 40			
10 46 48			
21457.658			

Aug. 16 – 1917

Iris

XIII

P.A. 100

10-57-30- 30.0

133.2 103.2

221.4 85.2

306.6 188.4 + 0.16

171.6

+0.24

37.7

130.2 92.5

207.2 104.1

311.3 196.5

163.5 + 0.31

P.A. 280 Mean = +0.03

.206

9.09

123.2

222.2 99.0

317.0 78.8

25.8 177.8 − 0.04

−0.18

134.8

212.4 77.6

309.2 85.4

11-2-0 324.6 163.0 − 0.32

9 30

10 59 45

10 58 53

21 45 1.665

Telescope reversed at end of group XIII

Aug 10, 1917

Iris

P.a = 280 XIV

11-11-30 212.2 < Iris dis
313.6 101.4
30.6 96.0
126.6 197.4
162.6 + 0.33

217.8 + 0.18
309.3 91.5
34.2 90.2
124.4 181.7 + 0.03
178.3

P.a 100 Mean = −0.13
9.06
8.93
311.2
33.6 82.4
138.2 71.6
209.8 154.0 * −0.50

* −0.44

315.6
30.2 74.6
1176-0 155.4 74.7
27 30 220.1 159.3 * −0.39
11 13 45
11 11 53
21451.674

Aug. 10, 1917

Iris.

XV

Pa100

11-21 50 307.2

34.2 870

130.0 850

215.0 1720 * - 0.15

314.7 ** - 0.20

27.6 729

126.0 932

219.2 166.1 — 026.

Pa280 mean = -0.19

34.4 906

127.4 930 8.87

223.2 796

302.8 1726 — 0.14

39.1 — 0.18

122.6 835

221.8 848

11-26.50 306.6 168.3 — 022

840

11 24 20

11 22 28

2.1451.682

Aug. 10, 1917

Iris

P.a 280 XVI

11-33-20 36.9
132.2 95.3
223.7 85.9
309.6 181.2
178.8 +0.02

36.8 +0.04
129.2 87.4
217.7 96.5
314.2 183.9
176.1 +0.07

P.a 100 mean −0.08
127.4 9.06
216.8 89.4 8.98
313.8 76.6
30.4 166.0 — 0.27

133.3 — 0.30
211.2 77.9
309.2 85.2
11-37-50 34.4 163.1 — 0.32
11 35 35
11 34 43
21451.690

Aug 10, 1917

Drus

~~XVII~~

Pa. 100

11-43-20 127.6

220.2 92.6

314.6 74.6

29.2 167.2 — 0.24

— 0.34

137.6

207.6 90.0

307.4 67.3

34.7 157.3 — 0.43

Pa. 280

Mean = — 0.16

9.06

8.90

215.5

309.8 94.3

39.8 78.9

118.7 173.2 — 0.13

221.2 — 0.03

306.8 85.6

32.6 98.2

11-48-20 130.8 183.8

176.2 + 0.07

11 40

11 45 50

214 51.698

Photo ledgered

HA 1 43 W

Dec — 14.7

ST — 21:16 ST.

Pa. = 273A

Sper = 8.3

Sun. Aug 12, 1917

H.C. Obs 15" E. Eq.

Iris   Phot T.

19 40 - 14.0
17 30
2 10 s

8 00   Cs watch = 55s slow by bell

P.A. 310   Same comparison on Aug. 10th

8 6.5   126.8 < Iris dia.   I
220.8   94.0
311.2   83.6
34.8   177.6 — 0.05

137.4
212.2   74.8   -0.09
302.6   98.6
41.2   173.4 — 0.13

P.A. 130

219.8   Mean = -0.40
303.0   83.2
50.4   63.3
113.7   146.5   ~~-.72~~
-0.64

227.2
295.2   68.0   — 0.70
51.4   72.8
8 13.5   124.2   140.8 — 0.76

8 10.0
8 10.9
2145 3.549

Aug. 12, 1917

Iris

II

Pa, 130

δ 20.5 224.6

303.4 78.8

50.2 65.6

115.8 144.4 − 0.69

231.8

291.2 59.4 − 0.76

42.6 77.2

119.8 136.6 − 0.84

Pa 310 Mean = − 0.42

306.2

40.0 93.8

135.3 76.5

211.8 170.3 − 0.18

311.3 − 0.09

34.6 83.3

126.9 96.8

δ. 27.5 223.7 180.1 + 0.00

δ 26.0 179.9

δ 26.9

21453.559 Iris too close to this comp ★ to measure well, will try a new comp star.

see next page.

Aug. 12, 1917

Iris
with another comp ☆.
Comp ☆ = −14° 5527 (9.1)

P.A. 0 III

8 29.3 125.5 < Iris dis.
215.8 90.3
317.2 71.2
28.4 161.5 − 0.35

136.8
212.4 75.6 − 0.38
312.2 83.0
35.2 157.6 − 0.41

P.A. 180 Mean = − 0.37
220.6
302.6 82.0
45.2 78.0
123.2 160.0 − 0.38

226.6
300.6 74.0 − 0.36
38.3 88.3
8 34.7 126.6 162.3 − 0.34
8 32.0
8 32.9
2145 3 565

Aug 12, 1917
Iris

	P.A. 180			IV
Af 46.4	218.8			
	305.2	86.4		
	45.8	71.9		
	117.7	158.3	− 0.41	
	224.2		− 0.38	
	298.3	74.1		
	39.6	87.0		
	126.6	161.1	− 0.36	
	P.A. 0		Mean = − 0.37	
	316.6			
	27.6	71.0		
	126.8	89.9		
	216.7	160.9	− 0.36	
	310.6		− 0.36	
	40.4	89.8		
	138.6	70.8		
f 52.2	209.4	160.6	− 0.37	
f 49.3				
f 50.2				

21453.576

August 12, 1917

Iris.

	P.a. 0		V
9 04.7	318.2		
	30.4	722	
	131.6	877	
	219.3	159.9	— 0.38
	309.2		— 0.39
	38.4	89.2	
	136.3	700	
	206.3	159.2	— 0.40
	P.a. 180		Mean = −0.41
	48.2		
	123.8	75.6	
	221.3	862	
	305.5	159.8	— 0.38
	40.4		— 0.43
	121.8	81.4	
	223.2	873.6	
9 10.9	296.8	155.0	— 0.48

9 06.8
9 07.7
21453.589

August 12, 1917

Iris

VI

	Pa 180		
9 22.2	46.2		
	119.8	73.6	
	221.8	82.4	
	304.2	156.0	−0.46
	44.7		−0.46
	123.4	78.7	
	223.8	76.6	
	300.4	155.3	−0.47
	Pa 0		mean = −0.47
	133.2		
	210.3	77.1	
	315.2	78.1	
	33.3	155.2	−0.47
	128.2		
	213.3	85.1	−0.48
	319.6	68.8	
9 28.2	28.4	153.9	−0.50
9 25.2			
9 26.1			
21453.601			

August 12, 1917

Iris.

	P.a. 0		VII
9 35.3	134.4		
	208.8	74.4	
	310.6	88.2	
	38.8	162.6	− 0.33
	125.6		− 0.32
	216.4	90.8	
	316.6	72.6	
	29.2	163.4	− 0.32
	P.a. 180		mean = − 0.33
	225.6		
	304.1	78.5	
	40.4	83.8	
	124.2	162.3	− 0.34
	221.6		− 0.34
	304.6	83.0	
	41.2	78.6	
9 41.3	119.8	161.6	− 0.35
9 38.3			
9 39.2			
2145 3.610			

August 12, 1917
Iris.

P.a.-180 VIII

9 46.0 224.8
298.6 73.8
42.8 85.4
128.2 159.2 — 0.40

— 0.34
217.6
304.3 86.7
44.4 78.3
122.7 165.0 — 0.29

P.a. 0 mean = — 0.31
317.6
~~25.6~~
32.8 75.2
126.3 91.3
217.6 166.5 — 0.25

311.3 — 0.28
37.7 86.4
134.8 77.6
9 52.2 212.4 164.0 — 0.30

9 49.1
9 50.0
21453.618

August 12, 1917

Iris

	P.A. 0			IX
9 57.5	310.4			
	31.6	81.2		
	128.8	85.8		
	214.6	167.0	− 0.25	
	308.8		− 0.20	
	38.3	89.5		
	132.6	82.2		
	~~208.6~~	171.7	− 0.16	
	214.8			
	P.A. 180		mean = − 0.30	
	44.7			
	119.3	74.6		
	222.2	81.4		
	303.6	156.0	− 0.46	
	41.3		− 0.39	
	126.2	84.9		
	225.3	78.0		
10 05.0	303.3	162.9	− 0.32	

10 01.2
10 02.1
21453.626

August 12, 1917

	Pa 180		X
10 11.3	42.2		
	124.4	82.2	
	218.6	85.0	
	303.6	167.2	− 0.24
			− 0.31
	43.2		
	126.3	83.1	
	225.4	76.8	
	302.2	159.9	− 0.38
	Pa 0		mean = − 0.38
	134.6		
	208.4	73.8	
	314.4	79.2	
	33.6	153.0	
			− 0.52
	126.7		− 0.45
	210.8	84.1	
	317.3	76.0	
10 18.3	33.3	160.1	− 0.38
29.6			
10 14.8			
10 15.7			
21453.636			

August 12, 1917
Iris

XI

P.a. 0
10 24.0 133.6
210.6 77.0
313.6 78.7
32.3 155.7 — 0.46

128.8
211.6 82.8 — 0.45
314.7 74.1
28.8 156.9 — 0.44

P.a. 180 Mean = — 0.48
230.8
300.2 69.4
43.2 81.6
124.8 151.0 — 0.55

222.6 — 0.51
302.6 80.0
42.7 75.2
10 32.0 117.9 155.2 — 0.47

10 28.0
10 28.9
2145 3.645

August 12, 1917

P.a. 180 XII

10 40.0 225.8

299.2 73.4

42.4 76.6

119.0 150.0 −0.58

219.2 − 0.54

302.3 83.1

47.7 71.1

118.8 154.2 −0.49

P.a. 0 mean = − 0.49

319.6

27.8 69.2

127.2 86.1

213.3 155.3 − 0.47

304.6 − 0.45

30.0 85.4

135.6 72.2

10 47.8 207.8 157.6 − 0.43

10 43.9

10 44.8

21453.656

P.a. = 5.9

Sp = 3.0 A

Ha 0.53 W

S.T. = 20.26

Dec = −14.7

2145/9

Sat. Aug. 18. 1917

P.C.Ob. 15" E. Eq.

R Coronae 154428

8 45 est 13.4 P.C.Ob.

Obs'd thru gap in clouds.

9 25 est 13.3 P.C.

est 13.1 S.A. Mitchell

Iris

Sat August 18, 1917

Iris

Phot T. I

9 54.7 306.2 < Iris dis.
37.2
133.8
211.8

91.0
78.0
169.0

313.3
9 56.0 30.7 Clouds 7 > c

Comp ★ = −14.0 steps (9.0) = 9.01

1917phae.proj..622G

Aug. 18, 1917

Iris.

Pa. I

10.3-40 127.0

Clouds.

10 20 Too cloudy for Iris or anything else with this telescope

Pa.

St Um Aug. 19, 1917.

~~ACC~~ Obs Rec 15" Eq. Plot I.

	P. a. 160	Iris	I
8 6.8	197.7 < Iris dis.		
	285.3	87.6	Comp ★ = −14° 5489 (9.0)
	18.8	75.5	H.P. Mag = 9.01
	74.3	163.1	− 0 32
	204.6		− 0.22
	286.4	81.8	
	13.6	91.2	
	104.8	173.0	− 0.13
	P.a. 340		mean = − 0.34
	291.4		
	374.6	83.2	
	112.6	69.6	
	182.2	152.8	− 0.52
	295.4		− 0.46
	368.8	73.4	
	~~+2~~		
	108.2	85.1	
8 12.0	193.3	158.5	− 0.41
8 09.4			
8 08.2	21460.5247		

8 00 C_s watch = $1^m\ 10^s$ fast by bell

Aug. 19, 1917
Iris

P.a. 340 II

δ 17.5 289.6
372.6 830
112.4 734
185.8 156.4 — 0.45

296.3
374.4 781 − 0.29
101.2 951
196.3 173.2 − 0.13

P.a. 160 Mean = −0.27
21.2
100.3 79.1
196.8 88.4
285.2 167.5 − 0.24

12.8
102.4 89.6 − 0.25
205.0 768
δ 23.6 281.8 166.4 — 0.26
δ 20.6
δ 19.4
21460.555

Comp * = −14°.

δ 2 f Old own region

Aug. 19. 1917

Iris

	Pa 160			III
8 39.4	25.0			
Watch 8 a.m.	96.8	71.8		
	195.6	88.0		
	283.6	159.8	− 0.38	
	21.2		− 0.35	
	107.7	86.5		
	201.6	76.8		
	278.4	163.3	− 0.32	
	Pa 340		Mean =	−0.25
	106.2			
	190.4	84.2		
	289.7	83.1		
	12.8	167.3	− 0.24	
	102.6		− 0.15	
	196.8	94.2		
	288.3	82.6		
~~8~~ 8 43.2	10.9	176.8	− 0.06	

8 2.6
8 41.3
8 41.5
21460.570

Aug. 19, 1917

Iris

	P.A. 360		IV
8 54.9 Watch Same	101.6		
	195.7	94.1	
	290.4	82.3	
	12.7	176.4	— 007
			— 0.17
	109.2		
	189.4	80.2	
	292.2	85.6	
	17.8	165.8	— 0.27
	P.A. 160		mean = — 0.26
	200.4		
	278.3	77.9	
	13.9	91.3	
	105.2	169.2	— 0.28
	196.4		— 0.34
	281.4	85.0	
	25.2	70.4	
8 59.0	95.6	155.4	— 0.47

139
8 57.0
8 57.2
21 460.581
9 00

Prof Mitchell watch = 13^s slow by bell

Output (E 417)
Iris

V

	Pa, 160		
9 10.7 (S.m.)	201.4		
	283.3	81.9	
	18.8	87.5	
	106.3	169.4	−0.20
			−0.14
	197.4		
	286.0	88.6	
	17.2	87.2	
	104.4	175.8	−0.08
	Pa 340		mean = −0.11
	286.2		
	13.6	87.4	
	102.8	95.4	
	198.2	182.8 177.2	+0.05
	290.9		−0.08
	12.8	81.9	
	106.3	86.4	−0 22
9 15.2	192.7	168.3	−

5.9

9 ~~180~~
130

9 13.2

592
21460.~~585~~

Aug. 19. 1917

Iris

VI

PA 340 S. a. Mitchell obs.

9 16.4 28.28
15.8 93.0
98.4 98.8
~~27~~ 197.2 191.8
168.2 + 0.22

284.2
14.2 90.0 + 0.12
102.7 91.9
194.6 181.9
178.1 + 0.03

PA 160 mean - 0.02
~~102~~ 16.8
104.8 88.0
198.8 83.4
282.2 171.4 - 0.16

19.8 - 0.16
105.4 85.6
198.2 86.0
9 31.1 284.2 171.6 - 0.16

7.5

9 23.8
9 24.0

21460600

Experimental only.

Aug, 19, 1917

Iris

VII

PA 160

9 32.0 21.8
100.2 78.4
194.7 95.5
290.2 173.9 — 0.11

— 0.14

16.3
105.2 88.9
201.8 81.6
283.4 170.5 — 0.18

PA 340 mean = — 0.22

109.2
189.6 80.4
289.4 82.0 — 0.33
11.4 162.4

106.2 — 0.30
197.6 91.4
296.3 74.6
9 35.6 10.9 166.0 — 0.27

7.6
9 33.8
9 34.0
21460.607

Aug. 19, 1917.

VII

PA 340

947.7 277.2 < comp * found to be disappearing.

23.3 106.1

102.8 95.2

198.0 201.3

158.7 $\bar{*}$ 0.41

280.3

20.7 80.4 $\bar{*}$ 0.31

96.0 109.8

205.8 190.2

168.8 $\bar{*}$ 0.21

PA 160

11.4 mean = $\bar{*}$ 0.22

105.2 93.8

186.3 93.5

279.8 187.3 $\bar{*}$ 0.14

172.7

13.4

105.3 91.9 $\bar{*}$ 0.14

192.6 95.0

9 52.0 287.6 186.9

173.1 $\bar{*}$ 0.13

997

9 498

9 500

21460.618

Aug. 19. 1917.

VIII

	P.A 160			
10 7.0	291.4			
	12.3	80.9		
	105.6	89.0		
	194.6	169.9	− 0.19	
	289.5			
	11.3	81.8	− 0.22	
	106.2	85.4		
	191.6	167.2	− 0.24	
	PA 340		Mean	− 0.22
	26.0			
	98.9	72.9		
	200.7	89.6		
	290.3	162.5	− 0.33	
	16.8			
	103.2	86.4	− 0.22	
	209.2	87.1		
10 11.0	288.3	173.5	− 0.12	
10 9.0				
10 9.2				
21460.631				

Aug 19. 1917

	pa 360	Sam Ob.	
10 144	176		
	104.2	86.6	
	203.8	74.0	
	277.8	160.6	− 0.37
	22.0		− 0.42
	95.3	73.3	
	198.3	82.5	
	280.8	155.8	− 0.46
	pa 160		~~0~~ − 0.12
	97.7		
	197.3	99.6	
	285.8	86.4	
	12.2	~~186.0~~	
		186.0	+ 0.11
		174.0	
	101.8		
	195.4	93.6	+ 0.18
	280.4	99.4	
10 27.4	198	193.0	
41.8		167.0	+ 0.25
10 $\overset{2}{\cancel{4}}$0.9			
10 $\overset{2}{\cancel{4}}$1.1			
21 460.6$\overset{40}{\cancel{53}}$			

Aug. 19, 1917

IX

	PA 160			
10 31.9	104.3			
	191.2	86.9		
	288.8	85.5		
	13.3	172.4	− 0.14	
	101.7		− 0.24	
	195.2	83.5		
	290.8	78.1		
	8.9	161.6	− 0.35	
	PA 340		Mean	− 0.24
	198.2			
	281.0	82.8		
	16.2	87.1		
	103.3	169.9	− 0.19	
	202.4		− 0.23	
	283.4	81.0		
	22.1	84.5		
10 35.5 ±	96.6	165.5	− 0.27	

10 33.7
10 33.9
21460.649

PA = 345 A
Spr = 3.2

Mon, Aug 20 1917

15" E. Eq. Iris. phot T.

Scarce comp ★ as last night.

Iris < in

	PA 20			
8 24.0	112.0			I
	Iris disc 184.4	72.4		
	288.4	85.9		L.C.Ob
	14.3	158.3	−0.41	
	106.4		−0.4~~3~~ 2	
	197.3	90.9		
	298.7	66.6	−0.43	
	5.3	157.5		
	PA 200		Mean = −0.~~3~~0 29	
	207.8			
	287.4	79.6		
	12.3	95.1		
	107.4	174.7	−0.10	
	203.3		−0.16	
	291.7	88.4		
	20.1	80.6		
8 275 ±	100.7	169.0	−0.21	

1/5

8 25.8

21461.560

Aug 20, 1917

Iris

S.a.m. Obs.

	P.a. 200			
δ 306	~~281.6~~			~~H~~
	14.4			
	104.2	89.8		
	198.4	90.0		
	288.4	179.8	− 0.01	
	12.8			
	108.2	95.4	+0.06	
	198.2	92.2		
	290.4	187.6		
		172.4	+ 0.14	
	P.a 20		Mean −0.18	
	294.4			
	14.6	80.2		
	108.8	79.8		
	188.6	160.0	− 0.38	
			−0.41	
	297.2			
	6.6	69.4		
	102.8	87.5		
δ 468	190.3	156.9	− 0.44	
δ 387				
21461.569				

Aug 20 - 1917

Iris.

	P.A. 20			~~JH~~
8 51.3	294.2			
	2.2	68.0		L.C. obs
	114.4	71.3		
	185.7	139.3	− 0.79	
	296.4			
	9.9	73.5	− 0.65	
	111.6	80.0		
	191.6	153.5	− 0.51	
	P.A. 200		Mean − 0.40	
	16.5			
	99.6	81.1		
	196.8	90.9		
	282.7	172.0	− 0.15	
	16.8			
	107.5	90.7	−0.14	
	197.7	82.5		
8 54.6	280.2	173.2	− 0.13	

5.9

8 53.0

2 ([illegible] .578

Aug 20 - 1917 -

Iris

IV

L.C. Obs.

	P.a. 200			
8 58.7	14.4			
	101.8	87.4		
	195.9	91.0		
	286.9	178.4	− 0.03	
	15.2		− 0.11	
	107.4	92.2		
	200.0	77.9		
	277.9	170.1	− 0.19	
	P.a 20			
	116.8		− 0.30	Mean
	190.2	73.4		
	286.8	85.6		
	12.4	159.0	− 0.40	
	103.6		− 0.48	
	195.5	91.9		
	295.2	58.6	− 0.57	
9:03.0	3.8	150.5		

1217

9 00.8

21461.584

Aug. 20 - 1917.

Iris.

P.a. 20 Sam. Obs. $\overline{V}$

9 56 109.6
190.4 80.8
291.2 77.0
8.2 157.8 — 0.42

104.7
186.8 82.1 — 0.44
294.2 73.6
7.8 155.7 — 0.46

P.a. 200 Mean = -0.24

16.2
104.7 88.5
193.7 91.1
284.8 179.6 — 0.01

15.3
106.6 — 0.05
200.7 91.3
284.8 84.1
175.4 — 0.09

9 15.8

9 10.7

pure61. 591

Aug 20 1917.

	P.a. 200			V
9 32.1	21.0			
	95.8	74.8		
	193.6	96.0		
	289.6	170.8	−0.17	L.C.obs
	11.4		−0.02	
	112.1	100.7		
	198.9	85.5		
	284.4	186.2		
		−173.8	+0.12	
	P.a. 20		Mean	−0.15
	188.4	Comp * disc		
	290.2	101.8		
	16.8	90.1		
	106.9	191.9		
		168.1	+ 0.22	
	196.6			
	285.8	89.2	−0.28	
	1.9	109.0		
9 36.0t	110.9	198.2		
		161.8	−0.35	

9 34.0
21461.607

Aug. 20 - 1917

Iris

	P.E. 20		S. Cam. Ob
9 35.5	107.2		VI
	188.8	81.6	
	289.6	79.2	
	8.8	160.8	— 0.37
	105.4		
	188.2	82.8	— 0.32
	288.2	83.0	
	11.2	165.8	— 0.27
	P.E. 200		mean = -0.20
	11.7		
	103.3	91.6	
	198.3	82.1	
		173.7	— 0.12
	280.4		
	16.3		— 0.08
	103.0	86.7	
	193.2	91.2	
9 50.0	284.4	177.9	— 0.04
9 42.8			

2421461.613

Aug. 20—1917.

	PA 200			VII
9 54.2	17.0			L.C. obs
	100.3	83.3		
	194.4	87.6		
	282.0	170.9	− 0.17	
	17.2		− 0.12	
	104.7	87.5		
	199.7	89.5		
	289.2	177.0	− 0.06	
	PA 20		− 0.21	
	110.8			
	185.5	74.7		
	286.5	88 3		
	14.8	163.0	− 0.32	
	105.3			
	197.8	92.5	− 0.30	
	296.0	72.8		
9 58 3	8.8	165.3	− 0.28	
9 56. 2				
21 461. 622				

10:0 Watch used 5.5 slow
by bell.

Aug. 20—1917

C's watch used from Iris here & on.

P.a. 20 β Cep. VIII

10 8.5 111.0
188.4 77.4
286.0 87.4
13.4 164.8 — 0.29

109.2 — 0.31
196.2 87.0
290.6 75.6
366.2 162.6 — 0.33

P.a. 200 mean = — 0.18

205.8
283.8 78.0
11.4 95.9
107.3 173.9 — 0.11

195.5 — 0.04
293.8 98.3
17.7 82.9
1013.7 100.6 181.2
222 178.8 + 0.02

10 11.1

2 1446 1.633

Aug. 20 1917
Iris
Telescope Reversed

A.C. Obs

	P.a. 200		
10 19.0	282.8		
	20.8	98.0	
	110.6	74.4	
	185.0	172.4	− 0.14
	295.2		− 0.19
	368.8	73.6	
	106.2	83.8	
	190.0	167.4	− 0.24
	P.a. 20		mean − 0.08
	190.6		
	287.8	97.2	
	17.2	84.1	
	101.3	181.3	
		178.7	+ 0.02
	199.8		
	282.3	82.5	+ 0.02
	11.4	98.9	
10 25.5	110.3	181.4	
		178.6	+ 0.03
10 22.2			
21461.640			

Aug. 20 – 1917

Iris

L Colby

X

Pa. 20

10 34.0 197.2

287.2 900

14.7 85.3

100.0 175.3 — 0.09

— 0.02

197.2

286.2 890

8.0 932

101.2 1822

1778 + 0.04

Pa 200

282.8 mean = − 0.21

369.8 870

111.4 770

188.4 1640 — 0.30

— 0.40

298.6

368.8 70.2

106.2 84.0

10 39.0 190.2 154.2 — 0.369

10 36.5

21461.650

Aug. 20 - 1917

Iris

P.C.Obs.

XI

	P.a 200		
10 48.8	290.6		
	10.0	79.4	
	113.6	76.4	
	190.0	155.8	− 0.46
	290.4		− 0.33
	14.7	86.3	
	107.8	85.4	
	193.2	169.7	− 0.20
	P.a 20		mean − 0.16
	12.2		
	105.8	93.6	
	194.4	90.2	
	284.6	183.8	
		126.2	+ 0.07
	9.4		+ 0.02
	102.8	93.4	
	191.3	85.0	
10 54.0	286.3	178.4	− 0.03

10 51.4
21461.660

Obs. diff throuout evening
image very faint most
of the time.

c's watch = 44s fast by bell

11 00

P.a = 208 A
Sep = 3.6
Dec = −14.7
Ha = 1:36 w
S.T. = 21:09

Fri. Aug. 24, 1917

15" E. Eq. Phot I.

~~Obj~~ Rec Iris 19 30 −14 8
18 10
1 20 E

I

P.a.-110

7 5:44 16.8 < Iris dis.
94.8 78.0
195.2 92.5
287.7 170.5 − 0.18

10.9 − 0.05
112.4 101.5
198.8 83.0
281.8 184.5 + 0.08
175.5

P.a. 290
109.8 mean = − 0.08
7 5:74 → Clds
191.8 820
282.8 91.9
374.7 173.9 − 0.11

102.2 − 0.10
198.4 96.2
286.8 78.4
8 01.0 365.2 174.6 − 0.10
115 4
7 57.7
7 58.2 21465 520 Troubled by clds & clock
8 00 C's watch = 30s slow by bell
Comp* = Dm star just prec. Iris, about same
dec = − 15°. 5407 (9.0)

Aug. 24, 1917

Iris.

II

	P.A. 290		
p 07.7	107.6		
	192.2	84.6	
	281.0	94.0	
	375.0	178.6	− 0.03
			+ 0.01
	97.2		
	202.0	104.8	
	299.2	78.0	
	377.2	182.8	+ 0.05
		177.2	
	P.A. 110		Mean = −0.06
	201.1		
	280.2	79.1	
	10.8	93.6	
	104.4	172.7	− 0.14
			− 0.12
	194.4		
	286.4	92.0	
	17.2	82.2	
p 13.5	99.4	174.2	− 0.11
p 10.6			
p 11.1			

21465.549

Aug. 24. 1917

Iris III

P.a. 110

ρ 17.5

201.6
280.4 78.8
16.3 91.0
107.3 169.8 - 0.19
~~149.7~~

- 0.14

189.2
286.0 96.8
20.0 78.3
98.3 175.1 - 0.09

P.a. 290 mean = - 0.17

295.5
371.2 75.7
101.3 98.5
199.8 174.2 — 0.11

284.4
371.7 87.3 — 0.20
112.6 77.2
189.8 164.5 - 0.29

ρ 22.7

ρ 20.1
ρ 20.6
21 H 65.556

ρ 25 all cloudy

Aug. 24. 1917.

IV

	PA. 290		
9 17.7	290.8		
	368.6	77.8	
	103.6	92.1	
	195.7	169.9	- 0.19
	285.3		-0.12
	374.2	88.9	
	105.2	88.6	
	193.8	177.5	-005
	PA 110		mean = -0.12
	15.6		
	103.6	88.0	
	196.2	90.0	
	286.2	178.0	-0.04
	18.6		
	106.8	88.2	-0.11
	199.2	82.4	
9 22.9	281.6	170.6	-0.18
06			
9 20.3			
9 20.8			
21465.598			

Aug. 24, 1917

Iris. V

Pa. 110

9 26.7 19.0

102.2 83.2

196.4 clds 87.8

284.2 171.0 − 0.17

16.6 − 0.22

9 28.8 104.8 88.2

202.8 clouds

280.8 78.0

166.2 − 0.26

Pa 290 Mean = − 0.14

106.2

199.6 93.4

275.6 88.0

9 32.0 363.6 181.4

clds 178.6 + 0.03

108.8 − 0.06

192.2 83.4

290.0 88.0

9 33.6 378.8 171.6 − 0.16

" "

9 30.3

9 30.8

21465.605

Pa. = 284 A

Sp = 2.0

Obs. in last group especially difficult on account of clouds.

9 40 Useless to continue further

Sat. Aug 25 - 1917

S.C.Mb. Rec 15" E.Eq. Phot T.

Iris
19 30 -1248
18 10
1 20s

Same comp ✱ as last night.

I

P.A. 280

> 43.2 110.6 < Iris dis.
185.6 75.0
280.8 91.4
372.2 166.4 - 0 26

108.8 - 0.27
197.0 88.2
291.8 77.0
368.8 165.2 - 0 28

P.A. 160 mean = - 0.10
200.2
281.6 81.4
7.3 101 3
108.6 182.7 + 0.05
07 3

> 45.8 ¹¹6 190.6 + 006
> 46.0 288.8 98.2
2466.532 186.0
17.4 84.2
> 48.4 103.4 175.8 + 008

Aug. 25 – 1917

Iris II

	P.a. 100		
7 50.2	200.8		
	280.4	79.6	
	~~3~~6.3	100.5	
	107.2	180.1	0.00
		179.9	
	195.5		−0.06
	287.7	92.2	
	18.8	82.0	
	100.8	174.2	−0.11
	P.a 280		Mean = −0.21
	292.6		
	365.0	72.4	
	106.3	86.7	
	193.0	159.1	−0.40
	287.2		−0.36
	374.6	87.4	
	112.4	75.2	
7 55.0	187.6	162.6	−0.33
7 52.6			
7 52.8			
21466.527			

800 Ci watch = 14^s slow by bell

Aug. 25 — 1917

Iris. III

	P.a. 280		
8 01.0	293.6		
	364.4	70.8	
	108.4	86.8	
	195.2	157.6	– 0.43
	288.4		– 0.60
	374.0	85.6	
	109.2	74.6	
	183.8	160.2	– 0.38
	P.a. 100		mean = – 0.20
	14.8		
	102.2	87.4	
	193.3	96.5	
	289.8	183.9	
		176.1	+ 0.07
	8.8		+ 0.01
	104.2	95.4	
	203.0	81.8	
8 05.6	284.8	177.2	– 0.05
8 03.3			
8 03.5			
21466.544			

Fr.

Aug. 25 – 1917

Dis IV

	P.a. 180			
δ 9.0	20.8			
	102.2	81.4		
	188.6	98.8		
	286.8	180.2		
		179.8	+ 0.00	
	11.2			
	107.6	96.4	+ 0.02	
	197.6	85.4		
	283.0	181.8		
		178.2	+ 0.03	
	P.a. 280		Mean = − 0.17	
	114.2			
	189.6	75.4		
	284.4	87.0		
	371.4	162.4	− 0.33	
	108.5		− 0.36	
	195.4	86.9		
	294.4	72.5		
δ 13.8	366.9	159.4	− 0.39	
δ 11.4				
δ 11.6				
21466.^{530}				

Aug. 25 – 1917

Iris V

P.a. 280

8 19.0 109.4
189.2 79.8
284.6 89.6
374.2 169.4 – 0.20

+
– 0.30
107.4
192.2 84.8
288.2 73.8
362.0 158.6 – 0.41

P.a. 100 mean = – 0.11

196.2
282.2 86.0
45.8 99.7
105.5 185.7
174.3 + 0.11

194.4
289.4 95.0 + 0.08
14.8 88.5
A 24.8 103.3 183.5
438
176.5 + 0.06
f 21.9
8 22.1

21466.557

Aug. 25 – 1917

Iris VI

Pa 100
f 26.7 195.5
280.4 84.9
10.2 97.4
107.6 182.3
177.7 + 0.04

194.4 + 0.02
287.8 93.4
16.6 86.9
103.3 180.3 + 0.01
179.7

Pa 280 Mean = − 0.14
294.4
364.6 70.2
107.2 84.0
191.2 154.2 − 0.49

286.0 − 0.31
375.4 89.4
108.4 84.0
f 30.9 192.4 173.4 − 0.13

f 28.8
f 29.0
21466.562

Aug 25 – 1917

Iris. VIII

P.A. 280

A 37.5 290.8
372.8 82.0
103.8 89.5
193.3 171.5 – 0.16

287.2 – 0.28
370.8 83.6
113.3 76.1
189.4 159.7 – 0.39

P.A. 100 Mean = – 0.12

12.7
99.8 87.1
193.0 94.8
287.8 181.9
178.1 + 0.03

8.8
105.2 96.4 + 0.04
198.4 85.6
A 42.5 284.0 182.0
B 40.0 178.0 + 0.04
B 40.2

21466.569

Aug 25–1917

Iris VIII

	Pa 100			
8·45.0	15.2			
	100.7	85.5		
	194.4	90.4		
8 46.0	284.8	175.9		
	clds			
	P.a.100			
8 53.4	11.6			
	107.8	96.2		
	202.6	79.2		
	281.8	175.4	−0.09	
	~~Pa 280~~			
	17.2		−0.10	
	98.4	81.2		
	194.2	92.4		
8 55.8	286.6	173.6	−0.12	
	clds			
	P.a 280		Mean = −0.25	
	105.8			
	190.2	89.4		
	292.6	74.4		
	367.0	163.8	−0.31	
	114.4		−0.40	
	192.4	78.0		
21466.58	291.4	77.0		R.
8 59.0	368.4	155.0	−0.48	

8 56.2 Troubled by clouds only ½ wt.

8 56.8

Aug 25 – 1917

Iris. ~~IX~~

	Pa 280		
9 5.0	~~195~~		
	103.2		
	195.8	92.6	
	293.3	71.3	
	364.6	1639	− 0.30
	113.3		
	191.8	78.5	− 0.30
	293.6	85.2	
	378.8	163.7	− 0.31
	Pa 100		mean = − 0.14
	197.0		
	285.6	88.6	
	15.6	87.7	
	103.3	176.3	− 0.07
	197.6		+ 0.02
	287.2	88.6	
	11.4	97.8	
9 10.2	109.2	186.4	
9 7.6		173.6	+ 012
9 7.8			

21466.589

Aug. 25 — 1917

Iris X

		P.a. 100		
9	13 2	197.0		
		282.4	85.4	
		11.4	89.8	
		101.2	175.2	— 0.09
		197.3		— 0.06
		282.8	85.5	
		12.8	92.5	
		105.3	178.0	— 0.04
		P.a. 280		Mean = — 0.22
		286.6		
		367.4	80.8	
		111.8	75.6	
		187.4	156.4	— 0.45
		294.4		— 0.37
		364.6	70.2	
		103.6	94.4	
9	18.4	198.0	164.6	— 0.29
	11.6			
9	15.8			
9	16.0			

21466.594

Aug. 25 – 1917

Iris XI

P.A. 280

9 26.5 286.8

371.2 84.4

110.4 81.8

192.2 166.2 −0.26

294.6 − 0.32

371.8 77.2

106.8 83.0

189.8 160.2 − 0.38

P.A. 100 Mean = − 0.16

14.4

102.6 88.2

197.2 87.2

284.4 175.4 − 0.09

11.6 0.00

101.6 90.0

193.2 94.1

9 31.5 287.3 184.1

9 29.0 175.9 + 0.08

9 29.2

21466 603

Aug. 25—1917

Iris. XII

	P.a. 100		
9 35.5	10.6		
	104.0	93.4	
	198.0	86.2	
	284.2	179.6	−0.01
	11.8		−0.08
	102.8	91.0	
	200.8	81.6	
	282.4	172.6	−0.14
	Pa 280		Mean = −0.25
	106.2		
	193.2	87.0	
	294.4	70.2	
	364.6	157.2	−0.43
	116.3		−0.42
	197.2	80.9	
	288.3	78.1	
9 40.4	366.6	159.0	−0.40
9 38.0			
9 38.2			
21466.60			

Aug. 25 – 1917

Iris

XIII

	P.A. 280		
9 48.4	104.8		
	187.6	828	
	292.8	724	
	365.2	155.2	− 0.47
	114.8		− 0.50
	187.0	72.2	
	290.6	79.7	
	370.3	157.9	− 0.54
	P.A. 100		Mean = − 0.29
	193.2		
	288.3	951	
	18.0	842	
	102.2	179.3	− 001
	199.2		− 0.08
	283.8	846	
	17.6	882	
9 54.6	105.8	1728	− 0.14
9 51.5			
9 51.7			
21466.619			

Aug 25 – 1917

Iris: XIV

	P.a. 100		
9 57.5	~~28~~ 195.0		
	282.2	87.2	
	13.3	86.5	
	99.8	173.7	— 0.12
	197.4		−0.07
	283.2	85.8	
	14.0	93.2	
	107.2	179.0	— 0.02
	P.a. 280		Mean = — 0.30
	~~288.8~~		
	368.2	79.4	
	116.0	70.6	
	186.6	150.0	— 0.58
	292.8		—0.54
	365.0	722	
	110.0	822	
10 02.7	192.2	154.4	—0.49
10 00.1			
10 00.3			
21466.625			

Aug. 25 - 1917

Iris - XV

	PA 280		
10 f.4	287.7		
	365.6	77.9	
	111.2	80.8	
	192.0	158.7	− 0.41
	292.8		− 0.36
	368.0	75.2	
	103.6	88.4	
	192.0	163.6	− 0.31
	PA. 150		Mean = − 0.17
	10.0		
	107.6	97.6	
	199.3	82.9	
	282.2	180.5	
		179.5	+ 0.01
	19.0		+ 0.02
	106.2	87.2	
	192.6	94.0	
10 13.4	286.6	181.2	+ 0.02
10 10.9		178.8	
10 11.1			
21466.633			

Aug 25, 1917

Iris XVI

P.a. 100

10 18.0 16.6

109.8 93.2

196.3 87.0

283.3 180.2

179.8 0.00

15.6 −0.04

100.0 84.4

194.4 92.0

286.4 176.4 −0.07

P.a. 280 Mean = −0.25

105.8

188.2 82.4

297.8 74.8

372.6 157.2 −0.43

113.4

189.6 76.2 −0.46

288.2 78.6

10 22.8 366.8 154.8 −0.48

10 20.4

10 20.6

21666.640

022

Aug. 25 - 1917

Iris XVII

P.a 280

10 27.0 107.8
194.2 86.4
292.2 70.8
363.0 157.2 - 0.43

112.8 - 0.60
185.4 72.6
285.5 88.1
373.6 160.7 - 0.37

P.a. 100 Mean = - 0.22

192.8
287.2 94.4
19.6 80.6
100.2 175.0 - 0.09

202.2 - 0.04
285.3 83.1
10.6 98.0
10 32.4 108.6 181.1
59.4 178.9 + 0.02
10 29.7
10 29.9
21466.646

Aug. 25 – 1917

Iris. XVIII

	P.a. 100		
10 36.4	194.0		
	285.0	91.0	
	15.3	85.0	
	100.3	176.0	− 0.08
	198.4		− 0.12
	277.8	79.4	
	15.5	91.7	
	107.2	171.1	− 0.17
	P.a. 280		mean = − 0.25
	284.4		
	368.8	84.4	
	105.5	84.9	
	190.4	169.3	− 0.20
	296.2		
	367.4	71.2	− 0.38
	109.8	80.2	
10 42.6	190.0	151.4	− 0.55
79.0			
10 39.5			
10 39.7			
21466.653			

Clock racing so fast, it is difficult to keep stars in field.

Aug 25 - 1917

XIX

P.A. 280

10 48 clouds

Too cloudy to continue.

Repair clock

P.A. 150 Mean = –

P.A. = 274 A

Sep = 4.2

Sunday Aug. 26, 1917. Pl. 1

Iris Phot T. 15"

L.C. Obs. P. A. L.C. Sr Rec.

I

Same comp ☆ as last night

P. A. 200

8-4-09 111.2 {Iris
187.7 >65
285.8 85.9
11.7 162.4 −0.33

P. A.

106.8 −0.30
196.2 89.4
293.1 76.7
9.8 166.1 −0.26

P. A. 80 Mean = +0.02 ~~+0.32~~
193.1
288.7 95.6
7.8 102.6
110.4 198.2
161.8 +0.35

185.3
~~8 06 32~~ 290.2 104.9 +0.35
8 04 22
2146 7.544 9.6 93.5
8-8-55 103.1 198.4
161.6 +0.35

August 26, 1917.

P. 9.80

Sam. α

[illegible]

~~8 - 13 - 00~~ ~~284.2~~

8 - 18 - 55. 189.2 Z Duis Olis:

294.8 1056

7.1 975

203.1

156.9 + 0.44

104.6

184.3 + 0.48

291.2 1069

6.7 1001

106.8 2070

P. 9. 2.60 1530 + 0.52

mean = + 0.24

106.6

190.2 836

284.4 892

13.6 1)28 - 014

- 008

103.8

192.2 884

283.3 913

8 - 29 - 58 14 6 1797 - 0.01

48 ~~56~~ 53

f 24 26

f 22 16

21467 557

August 26, 1917.

L.C. Obs. P.A. 260 L.C. Sr Rec

III

8-30-47 111.2 < Inis dis
185.8) 4.6
280.4 90.8
11.2 165.4 − 0.28

104.2 −0.27
191.4 87.2
290.2 79.0
9.2 166.2 − 0.26

P.A. 80 Mean = +0.06
191.6 < Inis ~~dis~~ * dis
290.4 98.8
4.4 106.2
110.6 205.0
155.0 + 0.68

182.4
289.2 106.8 + 0.40
11.4 89.6
8-34-53 101.0 196.4
163.6 + 0.31

8 32 50
8 30 50
21467.563

o

Aug 26 1917

P. 9.80 Obs. S.A.M.

~~8-22-52~~ 113.4 < comp ✱ dis.

8-~~38~~-52 190.4 77.0 IV

291.8 70.8

2.6 147.8 + 0.60

109.2 + 0.58

184.0 74.8

293.3 75.9

9.2 150.7 + 0.56

D. A. 260 mean = + 0.27

~~288.6~~

7.2

100.4 93.2

188.0 98.3

286.3 191.5

168.5 − ~~+~~ 0.22

14.4

101.4 87.0 − 0.04

190.6 95.0

8-47-50 285.6 172.0 + 0.15

26 42

8 43 21

8 41 11

21467.570

Ed.

Aug 26 1917

L.C. Obs P.g. 260

V

8-50-20 292.2 Iris. Dis.

366.8) 4.8

106.3 853

191.6 160.1 − 0.38

282.6 $\overset{-}{\cancel{+}}$ 0.32

12.0 89.4

112.6 76.8

189.4 166.2 − 0.26

P.g. 80 Mean = +0.15

~~12.0~~

7.6

108.8 101.2

183.1 106.1

289.2 207.3

152.7 + 0.52

2.1

119.1 117.0 +0.62

189.4 100.2

8-54-14 289.6 217.2

5-4

142.8 + 0.72

8 52 27

8 50 17

2146 7.5 7.6

9 00 Watch = 2m 10s fast by bell

Aug 26, 1917.

L.C. obs.

VI

	PA 80			
9 9.4	6.1			
	112.2	106.1		
	185.8	115.4		
	301.2	221.5		
		138.5	+ 0.80	
	0.0			
	117.2	117.2	+ 0.80	
	189.6	103.6		
	298.2	220.8		
		139.2	+ 0.79	
	PA 260		Mean	+ 0.18
	110.0			
	185.0	75.0		
	286.2	81.5		
	7.7	156.5	− 0.45	
	102.8		− 0.45	
	187.2	84.4		
	294.6	72.2		
9 14.2	6.8	156.6	− 0.45	
23.6				
9 11.8				
9 09.6				
21467.590				

Aug 26, 1917

Iris

	Pa 260			Same Obs.
9 21.8	105.3			VII
	188.0	82.7		
	281.8	96.6		
	18.4	179.3	−0.01	
	0			
	98.2			
	191.2	93.0	+.0.00	
	284.2	87.2		
	11.4	180.2		
		179.8	+.0.00	
	Pa 80			mean +0.32
	179.2			
	295.2	116.0		
	9.8	100.0		
	109.8	216.0		
		144.0	+.0.69	
	184.4			
	291.3	106.9		
	7.4	102.8	+.0.63	
9 29.4	110.2	209.7		
		150.3	+.0.57	

9 25.6
9 23.4
21467.599

Aug. 26 1917

	PA 80			L. Obs.
				VIII
9 30.5	192.2			
	291.8	99.6		
	0.2	110.9		
	111.1	210.5		
		149.5	+ 0.58	
	188.2			
	291.0	102.8	+ 0.61	
	3.7	110.5		
	114.2	213.3		
		146.7	+ 0.64	
	PA 260		Mean	+ 0.20
	288.6			
	11.4	82.8		
	102.2	95.1		
	197.3	177.9	− 0.04	
	294.8			
	13.2	88.4	− 0.20	
	112.4			
	~~100.2~~	73.4		
9 34.4	185.8	161.8	− 0.35	
9 32.4				
9 30.2				
21467 604				

Aug. 26, 1917

	PA 260			Sam. Obs
9 41.0	281.6			# LX
	11.2	89.6		
	98.2	92.8		
	191.0	182.4		
		177.6	+ 0.05	
	277.2			
	17.2	100.0		
	103.0	90.8	+.0.12	
	193.8	190.8		
		169.2	+ 0.20	
	PA 80		Mean	+ 0.32
	6.4			
	106.1	99.7		
	181.8	106.0		
	287.8	205.7		
		154.3	+ 0.49	
	9.4			
	112.8	103.4	+ 0.52	
	188.4	105.4		
9 47.5	293.8	208.8		
		151.2	+ 0.55	
9 44.2				
9 42.0				
21467.612				

Aug. 26, 1917

	PA 80			L.C. obs
9 48.8	8.8			
	109.1	100.3		X
	186.6	104.0		
	290.6	204.3		
		155.7	+ 0.46	
	5.2			
	116.8	111.6	+ 0.52	
	191.8	98.6		
	290.4	210.2		
		149.8	+ 0.58	
	PA 260		mean	+ 0.10
	108.6			
	183.2	74.6		
	287.2	86.6		
	13.8	161.2	— 0.36	
	102.7			
	191.4	88.7	− 0.31	
	288.4	77.4		
9 52.4	5.8	166.1	− 0.26	

9 50.6
9 48.4
2(146.).6 $\frac{17}{58}$

Aug. 26 - 1917

Iris

	P.A. 260			SAM Obs
10 00.0	106.2			
	190.4	88.2		~~XI~~
	283.2	80.4		
	7.6	168.6	−0.22	
			~~*~~ −0.20	
	101.2			
	191.2	90.0		
	289.2	80.6		
	9.8	170.6	−0.18	
	P.A. 80		Mean = +0.28^{3}	
	184.6			
	299.2	105.6		
	6.8	104.5		
	111.3	210.1		
		149.9	+ ~~1~~ 0.58	
	185.2			
	292.8	107.6	+ 0.66	
	3.3	110.4		
10 06.0	113.7	218.0		
10 03.0		142.0	+ 0.73	
10 00.8				

21467.626

Aug 26, 1917

Iris

	P.a. 80			L.C.P.
10 11.5	190.8			XII
	287.3	96.5		
	6.4	107.6		
	114.0	204.1		
		155.9	+0.46	
	193.7			
	293.3	99.6	+0.46	
	7.2	105.1		
	112.3	204.7		
		155.3	+0.47	
	P.a 260		mean = +0.06	
	290.6			
	368.2	77.6		
	107.6	81.7		
	189.3	159.3	−0.39	
	287.7		−.33	
	376.2	87.5		
	112.0	78.2		
10 16.0	190.2	165.7	−0.27	
7.5				
10 13.8				
10 ~~0~~11.6				
2(46).633				

Aug. 26, 1917

Iris L.C.Als

XIII

	P.a. 260		
10 27.7	291.3		
	362.6	71.3	
	112.2	72.6	
	184.8	143.9	— 0.70
	290.2		— 0.61
	368.6	78.4	
	114.2	76.6	
	188.8	153.0	— 0.52
	P.a. 80		Mean — 0.60
	1.6		
	114.2	112.6	
	190.2	100.1	
	290.3	212.7	
		147.3	+ 0.63
	9.8		+ 0.62
	109.2	99.4	
	184.8	112.4	
10 34.2	297.2	211.8	
61.9		148.2	+ 0.61
10 31.0			
10 28.8			
21467.645			

Aug 26, 1917

Iris:

~~XIV~~

	P.a. 80		
10 57.4	1.6		
	114.2	112.6	
	185.8	103.6	
	289.4	216.2	
		143.8	+ 0.70
	15.0		+ 0.63
	111.8	96.8	
	~~20~~191.0	102.6	
	293.6	199.4	+ 0.56
		150.6	
	P.a. 260		Mean = + 0.06
	104.6		
	188.6	84.0	
	294.8	66.6	
	361.4	150.6	− 0.56
			− 0.50
	115.2		
	187.8	72.6	
	284.4	84.8	
10 56.8	369.2	157.4	− 0.43

10 54.1
10 57.9

21467.661

P.a. 255 A
Sep = 10.4

Clock did not run well & telescope had to be continually adjusted by hand. ~~In~~ One image also poor, making obs. diff. ~~throughout~~ -ing.

Monday August 27. 1917

		Iris		L.C. obs
	PA 240		Phot T	
$8^h\ 10.2^m$	6.2	Iris dis		
	106.4	100.2	15" Eq.	
	190.7	89.0		V–
	279.7	189.2		J
		170.8	+ 0.17	
	15.5			
	104.8	89.3		
	188.8	102.8	+0.20	
	291.6	192.1		
		167.9	+ 0.23	
	PA 60		Mean	+ 0.04
	104.4			
	193.1	88.7		
	286.4	90.3		
	16.7	1790	− 0.02	
	107.8		− 0.12	
	201.2	93.4		
	287.8	75.4		
8 14.3	3.2	168.8	− 0.21	
P 12.2				
21 46 P.530				

Watch. at 8 PM 1^s slow by bell.

a new Comp ★ = −15.5395 (9.4) for tonight

August 27. 1917

Iris

5 R M. Obs

	PA 60			
h m s				~~H~~
8 23 6	97.8			
	193.2	95.4		
	286.4	87.2		
	13.6	182.6 177.4	+.0.05	
	108.8			
	193.4	84.6	0.00	
	283.8	92.9		
	16.7	177.5	− 0.05	
	PA 240			Mean + 0.20
	187.4			
	286.2	98.8		
	7.8	98.4		
	106.2	197.2		
		162.8	+ 0.33	
	185.6			
	288.2	102.6	+.0.40	
	4.9	101.5		
8 29 39	106.4	204.1		
8 26 24		155.9	+ 0.46	

21K6A560

~~Comp. for Aug 7~~

Aug 27. 1917

		Iris		LC obs
	PA 240			
8 35.8	188.2			II
	289.8	101.6		
	8.2	95.6		
	103.8	197.2		
		162.8	+0.33	
	190.0			
	290.7	100.7	+0.24	
	14.8	86.8		
	101.6	187.5		
		172.5	+0.14	
	PA 60		Mean	+0.03
	285.6			
	10.2	84.6		
	104.1	89.2		
	193.3	173.8	− 0.12	
	287.7		− 0.18	
	15.2	87.5		
	110.2	79.8		
	190.0	167.3	− 0.24	
8 40.2				

8 38.0

21446.568

Aug 27. 1917

	pa. 60			Same Obs
f 45.7	285.8			IV
	13.2	87.4		
	106.6	86.0		
	192.6	173.4	− 0.11	
	282.6			
	11.2	88.6	+.0.02	
	97.4	99.2		
	196.6	187.8		
		172.2	+0.15	
	pa. 240			+0.14
	1.2			
	113.3	101.1		
	193.2	88.2		
	281.4	189.3		
		170.7	+0.17	
	14.6			
	106.2	91.6	+0.26	
	182.2	107.4		
f 55.0	289.6	199.0		
f 50.4		161.0	+0.36	

2146A.576

Aug 27, 1917

		Iris		L Cobs
	PA 240			V
8 58.7	6.6			
	103.4	96.8		
	186.4	100.8		
	287.2	197.6		
		162.4	+0.33	
	5.1			
	115.7	110.6	+0.44	
	188.7	97.7		
	286.4	208.3		
		151.7	+0.54	
	PA 60			+0.19
	110.2			
	194.4	84.2		
	288.2	87.9		
	16.1	172.1	−0.15	
	102.4		−0.06	
	197.2	94.8		
	286.2	86.1		
	12.0	180.9		
9 3.2		179.1	+0.02	
1219				
9 01.0				
21668.584				

Aug 27 1917

Iris

SAM

VI

	PA 60			
9 8.5	102.2			
	187.4	85.2		
	283.7	84.5		
	8.2	169.7	− 0.20	
	105.2			
	189.8	84.6	− 0.14	
	277.6	91.6		
	19.2	176.2	− 0.07	
	PA 240		Mean	+ 0.21
	179.4			
	291.2	111.8		
	8.2	99.8		
	108.0	211.6		
		148.4	+ 0.51	
	189.6			
	287.4	101.8	+ 0.56	
	7.3	104.1		
9 16.0	111.4	205.9		
9 12.2		154.1	+ 0.50	
21468.59 Z				

Aug 27 1917

Iris

L C obs

	PA 240			VII
9 17.0	194.4			
	286.0	101.6		
	3.8	100.4		
	114.2	202.0		
		158.0	+ 0.42	
	189.2			
	289.6	100.4	+ 0.43	
	14.4	92.8		
	107.2	193.2		
		156.8	+ 0.44	
	PA 60			Mean + 0.24
	282.1			
	15.4	93.3		
	104.8	93.1		
	197.9	186.4		
		173.6	+ 0.12	
	280.6			
	17.6	97.0	+ 0.04	
	108.8	81.0		
9 21.6	189.8	178.0	− 0.04	
9 19.3				
21468.597				

Aug. 27, (91)

Ci watch now used. 1m fast LCCB
Iris. VIII

	PA 60		
9 37.0	287.2		
	373.6	86.4	
	104.9	89.5	
	194.4	175.9	— 008
			— 0.02
	283.4		
	376.2	92.8	
	105.5	88.7	~~0~~
	194.2	181.5	
		178.5	+ 0.03
	PA 240		mean = + 0.16
	9.8		
	108.6	98.8	
	171.4	92.8	
	284.2	191.6	
		168.4	+ 0.22
	5.8		
	110.2	104.4	+ 0.34
	189.2	100.0	
9 43.0	289.2	204.4	
		155.6	+ 0.47
9 40.0			

21468.611

Aug. 27, 1917

Iris

PA. 240 IX

10 1.2 11.0
102.4 91.4
187.4 99.6
287.0 191.0
169.0 +0.21

3.3
114.6 111.3 +0.32
193.6 90.6
284.2 201.9
158.1 +0.42

PA 60 mean = +0.08

294.2
18.4 84.2
110.2 84.2
194.4 168.4 −0.22
→

~~279.2~~ −0.16
284.0
12.4 88.4
111.6 86.6
10 7.5 198.2 175.0 −0.09

10 4.4 PA = 58 A

2146868 Obs. too diff. on account Spr = 3.9
of Moon & haze to continue
with advantage Peter Lagard

JD
21475

Mon. Sept 3, 1917 (Labor Day)

LC Obs 15" Equat. LC Rec
Plot T.

Iris.
13 30 – 14 0
18 30
1 0 2

7 45 7	Star 1	7 47	31.5
14.5	" 2		39.0
14.5 22.0	3		39.0
38.0	4		48.5
	2		4.5
40.5	1	7 48	7.0
56.0	3		22.0
46 6.5	4		30.0

* 1, 2, 3 in S part of field
* 4 in N " "

7 49 24.0	Star 1	~~5.8~~	7 51	40.
25.0	" 2	~~7.0~~		41.5
35.0	" 3 Iris	~~17.0~~		52.0
43.5	" 4		7 52	0.5

Star 3 = the asteroid but sky now

8 00 all cloudy

Tues Sept. 4, 1917

L.C. Obs. & Rec. Iris 15" E. Eq.
Plot I.

P.a. = 40

7 25.0 298.8 ≠
< comp ★ dis.
353.6 54.8
126.4 45.0
171.4 99.8 + 1.66

I

308.4 + 1.78
349.4 41.0
127.6 49.0
176.6 90.0 + 1.91

P.a 220 mean = + 1.56

264
85.2 57.8
215.6 49.0
264.6 107.8 + 1.47

31.3 + 1.34
87.2 55.9
207.2 63.4
7 31.0 270.6 119.3 + 1.21

7 7 ~~28.0~~ 26.8
214)6.519

Comp ★ = − 15.°5386 (7.8)

Sept. 4, 1917

Iris

II

P.a. 220

) 36.3 27.8

85.6 57.8

215.4 49.2

264.6

107.0 + 1.49

+1.40

26.2

84.8 58.6

213.8 56.0

269.8 114.6 +1.31

P.a. 140

Mean Z = +1.48

301.3

352.4 51.1

127.2 49.2

176.4 100.3 + 1.65

+1.56

305.2

359.6 54.4

$1\overset{3}{2}2.3$ 53.7

) 42.5 186.0 108.1 + 1.46

) 39.4

) 38.2

21476.526

Sept. 4, 1917

Iris.

	P.a. 60			III
> 47.0	295.8			
	361.0	65.2		
	124.8	50.7		
	175.5	115.9	+ 1.28	
	305.2		+ 1.41	
	352.2	47.0		
	121.2	57.6		
	178.6	104.6	+ 1.54	
	P.a. 220		Mean = + 1.30	
	264			
	~~92.2~~	62.0		
	88.4	54.6		
	210.6	116.6	+ 1.27	
	265.2			
	28.4		+ 1.20	
	87.0	58.6		
	264.4	63.4		
> 53.0	267.8	122.0	+ 1.14	
> 50.0				
> 48.8				
214)6.534				

Sept 4 1917

Iris

IV

P.a 220

7 57.5 27.6
92.8
65.2
207.6
58.8
266.4
124.0 + 1.11

23.8
+ 1.05
86.6
62.8
207.3
66.7
273.0
129.5 + 0.99

P.a 40

mean + 1.24

123.0
177.2
54.2
301.2
53.6
354.8
107.8 + 1.47

123.6
+ 1.42
175.0
51.4
299.2
60.8
8 03.7 360.0
112.2 + 1.37

8 00.6
7 59.4
21476.541
8 00

1^m & 10^s fast by Bell = C's Watch

Sept 4, 1917

Iris V

P.a. 60

8 10.6 118.2
176.5 58.3
302.2 53.6
355.8 111.9 + 1.37

122.6 + 1.38
176.2 53.6
298.6 57.8
355.8 111.4 + 1.39

P.a. 220 Mean = + 1.16
202.6
270.0 67.4
26.2 60.0
86.2 137.4 + 0.83

211.0 + 0.93
270.2 59.2
21.2 68.6
8 16.8 89.8 127.8 + 1.03

8 13.7
8 12.5
21446.550

Sept 4, 1917

Iris VI

	P.a. 220		
8 25.8	207.2		
	273.6	66.4	
	248	66.4	
	91.2	132.8	+ 0.92
	209.6		+ 0.95
	270.4	60.8	
	25.8	69.2	
	95.0	130.0	+ 0.98
	P.a. 40		Mean = + 1.16
	113.0		
	176.6	63.6	
	305.0	50.2	
	355.2	113.8	+ 1.33
	124.0		
	175.5	57.5	+ 1.36
E	298.2	59.6	
8 32.4	357.8	111.1	+ 1.39
58.2			
8 29.1			
8 27.9 ~~.56~~			
21476.561			

Sept. 4, 1917

see ~~next~~ page for group VII

Iris VIII

P.a. 220

8 48.0 25.2

89.2 66.0

209.8 55.0

264.8 119.0 + 1.21

+ 1.20

28.2

88.4 60.2

207.7 60.1

267.8 120.3 +1.19

P.a. ~~220~~ 40 Mean = +1.32

120.8

177.4 56.6

301.6 49.3

350.9 105.9 +1.51

118.8 +1.44

177.2 58.4

301.8 53.4

8 54.0 355.2 111.8 +1.38

8 51.0

8 49.8

2(4)6. 5)6

Sept 4, 1917

Iris ~~VII~~ VII

	P.A. ~~220~~ 40			
f 40.0	119.8			
	177.4	57.6		
	297.2	54.8		
	352.0	113.4	+ 1.34	
	124.8		+ 1.34	
	179.6	54.8		
	296.4	59.2		
	355.6	114.0	+ 1.33	
	P.A. ~~40~~ 220		Mean = + 1.13	
	21.4			
	91.4	70.0		
	203.3	67.5		
	270.8	137.5	+ 0.82	
	27.2		+ 0.92	
	82.8	55.6		
	205.2	72.1		
f 46.0	277.3	127.7	+ 1.03	
f 43.0				
f 44.8				

2(4)6.571

Sept 4, 1917

Iris IX

	Pa. 40		
8 59.0	117.8		
	174.9	57.1	
	301.4	52.2	
	353.6	109.3	+1.43
	121.2		+1.42
	174.6	53.4	
	303.3	56.3	
	359.6	109.7	+1.42
	P.a 220		mean +1.20
	205.8		
	271.8	66.0	
	24.8	56.4	
	81.2	122.4	+1.14
	205.0		+0.97
	270.6	65.6	
	21.8	73.2	
9 05.0	95.0	138.8	+0.80
9 02.0			
9 00.8			
21476.584			

Sept 4, 1917

Pa 220 Iris X

9 16.0 208.2
272.2 64.0
29.8 62.2
92.0 126.2 + 1.06

+ 1.09
212.0
270.2 58.2
27.2 65.0
92.2 123.2 + 1.12

Pa 40 Mean = + 1.22

117.6
182.6 65.0
302.0 51.3
353.3 116.3 + 1.27

+ 1.36
121.6
176.2 54.6
302.4 53.8
9 20.4 356.2 108.4 + 1.45

9 18.2
9 17.0

214) 6.596

Sept 4. 1917

Iris

Pa 60 XI

9 31.6 115.6

173.4 57.8

300.6 56.7

357.3 114.5 +1.31

+1.3~~8~~7

120.6

170.2 49.6

302.4 60.0

362.4 109.6 +1.43

Pa 220 mean = +1.23

30.0

82.2 52.2

211.2 66.5

277.7 118.7 +1.22

24.8 +1.09

96.6 71.8

9 37.8 207.4 59.2

266.6 131.0 +0.96

9 34.7

9 33.5

21476.606

Sept. 4, 1917

Iris XII

Pa 220

9 50.0 ~~273.3~~

232

91.4 68.2

206.4 67.8

274.2 136.0 +0.86

+0.82

23.8

~~88.8~~ 65.0

200.0 73.0

273.0 138.0 + 0.79

Pa 40 Mean = +1.20

119.2

176.0 56.8

301.2 51.2

352.4 108.0 +1.46

126.2 +1.57

176.8 50.6

306.2 48.6

9 57.0 354.8 99.2 +1.68

9 53.5

9 52.3

21476.619

Sept. 4, 1917

Iris XIII

P.a. 40

10 00 Cloudy

Too cloudy to continue
on ~~this~~ -

P.a. = 35.3
Spr. = 1.8

P.a. 220

10

Monday Sept 10, 1917

~~L. C. Obs. 15" E Eq. Phot T.~~

Iris

19 30 — 14.8
18 50
0 x 4 E

Same Comp ★ used as on Sept 4. =
P.A. 30 −15° 5386 (2A)

> 25.6 295.8 < comp ★ dis.
356.8 61.0 I
126.6 47.6
174.2 108.6 + 1.45

305.2 +1.42
354.0 48.8
116.8 61.8
178.6 110.6 +1.40

P.a 210 Mean = +1.22
20.6
94.4 73.8
210.6 57.8
268.4 131.6 + 0.95

27.8 + 1.01
86.8 57.0
207.4 66.5
> 31.6 273.9 125.5 + 1.07
> 28.6 214.82 5.20 > 29.1

Sept 10, 1917

Iris. II

	P.a. 210		
7 37.4	23.6		
	89.6	66.0	
	213.2	53.6	
	266.8	119.6	+1.20
	33.0		+1.20
	81.6	48.6	
	2044	71.1	
	275.5	119.7	+1.20
	P.a. 30	Mean = +1.32	
	117.7		
	175.8	58.1	
	304.4	47.0	
	351.4	105.1	+1.53
			+1.44
	1222		
	173.4	51.2	
	297.4	61.5	
7 428	358.9	112.7	+1.36
7 40.1			
7 40.6			
21482.528			

P.a. = 35° A
Spr. = 3.5

Sept. 10, 1917.

Iris. III

	P.A. 30		
7 47.4	120.6		
	175.4	54.8	
	305.8	47.0	
	352.8	101.8	+ 1.61
			+ 1.64
	127.8		
	173.4	45.6	
	302.6	53.6	
	356.2	99.2	+ 168
	P.A. 210		Mean = + 1.42
	23 2		
	92.2	69.0	
	211.4	53 2	
	264.6	1222	+ 114
	33.0		+ 1.20
	85.2	52.2	
	210.0	64.8	
7 53.8	274.8	117.0	+ 126
7 50.6			
7 57.2			

21482, 535

8 00 By bell Cs Watch = 33s slow

Sept. 10, 1917

Iris. IV

	P.a 210		
8 00.5	23.0		
	>90.8	67.8	
	212.8	50.5	
	263.3	118.3	+1.23
	31.6		+1.22
	81.6	50.0	
	>201.8	69.8	
	271.6	119.8	+1.20
	P.a 30		Mean = +1.25
	114.4		
	178.8	64.4	
	>305.8	50.6	
	356.4	115.0	+1.30
	120.4		+1.28
	>173.2	52.8	
	292.2	64.2	
8 05.8	356.4	117.0	+1.26
6.3			
8 03.2			
8 03.7			
21482.544			

Sept. 10, 1917.

Iris. V

F. L. Duchanne
Rec.

	P.a 30		
S 12 50	123.6		
	178.8	55.2	
	>310.6	36.6	
	347.2	91.8	+1.87
	125.6		+1.82
	166.2	40.6	
	>303.1	54.7	
	357.8	95.3	+1.77
	P.a 210.		Mean = +1.56
	204.8		
	275.2	70.4	
	>~~376~~ 34.0	48.0	
	82.0	118.4	+1.23
	217.2		
	>258.8	41.6	+1.30
	26.2	70.6	
	96.8	112.2	+1.37

S 17 03
9 53

S 14 56
33

S 15 29

21482.552

Sept 10, 1917

Iris VI

	P a 210		
8.29 10	205.2		
	>271.4	66.2	
	32.8	51.8	
	84.6	118.0	+1.24
	219.2		+1.18
	271.1	51.9	
	>27.4	71.4	
	98.8	123.3	+1.12
	Pa 30		Mean = +1.40
	298.8		
	>362.6	63.8	
	129.2	33.0	
	162.~~8~~2	96.8	+1.74
	308.6		+1.62
	>349.3	40.7	
	115.8	65.8	
8.32 55	181.6	106.5	+1.50
2 05			
8 31 02			
8 31 35			
214 F2. 56~~3~~4			

Sept. 19, 1917.

Iris. VII

	P.a. 30		
843 40	298.6		
	>356.8	58.2	
	121.2	50.5	
	171.7	1087	+ 1.45
	305.7		+ 1.46
	>350.2	44.5	
	118.3	63.8	
	182.1	108.3	+ 1.46
	P.a. 210		mean = + 1.36
	24.1		
	>94.8	70.7	
	214.6	47.2.	
	261.8	1179	+ 1.24
	32.2		
	>77.7	45.5	+ 1.26
	204.4	70.9	
8.47.25	275.3	1164.	+ 1.27

f 45 32

8 46 05

21482.574

Sept. 10-1917

Iris VIII

P.a. 210

8 56 00 209.2
>270.4 61.2
25.6 59.9
85.5 121.1 +117

212.4 +1.22
>262.6 50.2
21.4 67.0
88.4 117.2 +126

P.a. 30 mean = +1.29
297.3
3~~2~~55.5 58.2
>174.4 126.4 48.0
106.2 +151

303.6
353.9 50.3 +1.36
>115.2 68.4
859 - 48 183.6 118.7 +122

15 48
8 57 54
33

8 58 27
21482.582

Sept 10, 1917.

Iris IX

	Pa. 30		
9 14 11	301.2		
	>355.1	53.9	
	129.8	41.6	
	171.4	95.5	+ 1.77
			+1.70
	304.2		
	>343.8	39.6	
	119.0	61.4	
	180.4	101.0	+ 1.63
	Pa. 210		Mean = +1.46
	24.4		
	>94.6	70.2	
	214.8	47.2	+ 1.25
	262.0	117.4	
			+1.22
	31.9		
	>79.4	47.5	
	203.3	72.7	
9 17 35	276.0	120.2	+ 1.19
11 46			
9 15 53			
33.			
9 16 26			
21482.594			

Sept. 10, 1917
Iris

X

	P.a. 210		
9 20 46	24.6		
	>88.2	63.6	
	213.7	53.5	
	267.2	117.1	+ 1.26
	31.4		+ 1.26
	>82.8	51.4	
	205.3	65.9	
	271.2	117.3	+ 125
	P.a. 30		mean = + 1.44
	118.9		
	>177.5	58.6	
	306.4	41.5	
	347.9	100.1	+ 1.65
	127.4		
	>166.1	38.7	+ 1.62
	297.8	64.0	
9 24 10	361.8	102.7	+ 159

9 22 28
33

9 23 01
2 1468 2.599

Sept 10. 1917

Iris

XI

	P.a. 30			
9 28 13	121.8			
	>175.0	53.2		
	305.8	42.4		
	348.2	95.6	+1.77	
	123.8			
	>169.2	45.4	+1.6~~8~~0	
	295.9	64.5		
	360.4	109.9	+1.42	
	P.a. 210		mean = +1.42	
	202.2			
	>271.8	69.6		
	38.4	43.3		
	81.7	112.9	+1.35	
	213.3			
	>265.2	51.9	+1.25	
	24.4	70.0		
9 31 43	94.4	121.9	+1.15	
39 57				
9 29 58				
9 30 31				
2 1 ed 2-605				

Sept. 10, 1917

XII

	P.a. 210		
9 38 58	208.6		
	>268.9	60.3	
	31.2	54.3	
	85.5	114.6	+ 1.31
	~~+59.12~~		
	~~148.55~~		
	211.4		+ 1.26
	>268.9	57.5	
	26.2	62.2	
	88.4	119.7	+ 1.20
	P.a. 30		mean + 1.46
	298.6		
	>361.0	62.4	
	125.9	43.9	
	169.8	106.3	+ 1.50
	301.8		+ 1.66
	>355.3	53.5	
	127.7	39.7	
9 42 44	167.4	93.2	+ 1.83

9 40 51
9 41 24
2 148 2. 612

Sept. 10, 1917.

XIII

	P.a. 30		
9 50 21	304.4		
	>349.9	45.5	
	123.0	57.8	
	180.8	103.3	+ 1.57
			+ 1.64
	299.2		
	>357.7	58.5	
	129.0	39.6	
	168.6	98.1	+ 1.70
	P.a. 210	mean + 1.52	
	24.4		
	>91.8	67.4	
	215.6	45.0	
	260.6	112.4	+ 1.36
	35.4		
	>78.8	43.4	+ 1.60
	207.0	65.7	
9 54 12	272.7	109.1	+ 1.44
9 52 16			
9 52 49			

.620

Sept. 10, 1917

XIV

	P.a. 210		
10 3 31	22.2		
	>93.3	71.1	
	210.0	56.6	
	266.6	127.7	+ 1.03
	30.9		
	>81.1	50.2	+ 1.20
	206.4	62.4	
	268.8	112.6	+ 1.36
	P.a. 30		mean = + 1.40
	116.2		
	>177.7	61.5	
	304.7	43.9	
	348.6	105.4	+ 1.53
	127.4		+ 1.61
	>168.8	41.4	
	299.4	57.4	
10 7 02	356.8	98.8	+ 1.69
10 5 16			
10 5 49			
21482.628			

Sept 10, 1917

XV

	Pa 30		
10 36 36	114.1		
	>181.4	67.3	
	308.7	46.5	
	355.2	113.8	+ 1.38
	123.6		+ 1.52
	>166.6	43.0	
	299.4	56.9	
	356.3	99.9	+ 1.66
	Pa 210		Mean = + 1.36
	205.3		
	>274.8	69.5	
	32.1	49.3	
	81.4	118.8	+ 1.22
	211.8		+ 1.20
	>266.4	54.6	
	23.2	66.2	
10 40 5	89.4	120.8	+ 1.10
10 38 20			
10 38 53			
21482.65			

Sept. 10, 1917

Ims

XVI

P.a. 210

10 54.7 209.7

271.2 61.5

30.6 51.2

81.8 112.7 + 1.36

214.4 +1.25

269.4 55.0

20.8 67.6

88.4 122.6 + 1.14

P.a. 30 Mean = +1.38

298.2

357.4 59.2

122.2 48.2

170.4 107.4 + 148

305.6 +1.50

351.2 45.6

115.3 59.5

10 59.5 174.8 105.1 + 1.53

10 57.1

10 57.7

21482 665

P.a. 34 A

Spr. 3.7

Photo Ledg.

Tues. Sept. 11, 1917

H.C. Obs. Rec. 5-in E. Eq. Phot T.

Pa 30 Iris.

>19.4 307.6 I

350.2 < Comp ★ dis.

426

121.6 568

178.4 99.4 +1.67

305.3 +1.67

358.6 53.3

129.2 46.0

175.2 99.3 +1.67

Pa 210 Mean = +1.50

33.3

81.8 48.5

209.2 62.8

272.0 111.3 +1.39

25.2 +1.34

87.7 62.5

209.2 53.4

> 24.6 262.6 115.9 +1.28

> 22.0

> 22.3

Same comp ★ as last night =
−15°. 5386 (7.8)

21483.515 P.A. 34A

Asteroid has moved very little, since last night Sfr. 3.8

Sept. 11, 1917.

Iris II

		P.a. 210		
7	29.4	31.4		
		83.1	51.7	
		205.6	62.7	
		268.3	114.4	+1.32
				+1.30
		26.7		
		89.2	62.5	
		210.6	54.0	
		264.6	116.5	+1.27
		P.a. 30		Mean = +1.47
		125.2		
		170.7	45.5	
		301.2	58.4	
		359.6	103.9	+1.56
		118.4		+1.64
		173.7	55.3	
		307.2	42.6	
7	34.0	349.8	97.9	+1.71
	13.4			
7	31.7			
7	32.0			

21483.522

Sept 11, 1917

Iris III

	P.a 30		
7 39.6	125.6		
	175.8	50.2	
	300.3	53.0	
	353.3	103.2	+1.58
	123.6		+1.70
	177.2	53.6	
	308.8	39.9	
	348.7	93.5	+1.82
	P.a. 210		Mean = +1.51
	216.2		
	267.6	51.4	
	25.2	62.2	
	87.4	113.6	+1.34
			+1.32
	208.8		
	271.2	62.4	
	316	53.0	
7 45.0	846	115.4	+1.29
7 42.3			
7 62.6			
21483.530			

Sept. 11, 1917

Iris IV

	Pa 210		
P 50d	212.2		
	262.4	50.2	
	21.6	70.2	
	91.8	120.4	+1.18
	202.0		+1.17
	272.6	70.6	
	31.8	50.8	
	82.6	121.4	+116
	Pa 30		Mean = +142
	303.8		
	350.0	46.2	
	121.8	55.9	
	177.7	102.1	+161
	301.7		+1.66
	355.0	53.3	
	129.2	44.0	
) 55.6	173.2	97.3	+172
) 53.2			
) 53.5			

21483.538

800 by Bell c/watch = 17 sec. slow

Sept. 11, 1917

Iris V

	P.a. 30		
8 02.0	301.6		
	350.2	48.6	
	122.6	52.8	
	175.4	101.4	+ 1.62
			+1.63
	301.2		
	353.6	52.4	
	125.4	48.2	
	173.6	100.6	+1.64
	P.a 210		Mean — +1.32
	32.2		
	87.0	54.8	
	202.2	69.6	
	271.8	124.4	+1.10
			+1.01
	27.2		
	88.4	61.2	
	200.8	71.4	
8 07.2	272.2	132.6	+0.92
8 4.7			
8 5.0			

21483.545

Sept. 11. 1917

Iris - VI

	Pa. 210		
8 14.0	29.2		
	91.7	62.5	
	208.3	61.1	
	269.4	123.6	+ 1.11
	27.8		+ 1.10
	83.2	55.4	
	204.2	69.0	
	273.2	124.4	+ 1.10
	Pa 30		Mean = + 1.38
	123.4		
	170.4	47.0	
	302.4	53.0	
	355.4	100.0	+ 1.66
	121.4		+ 1.65
	180.2	58.8	
	306.2	41.8	
8 19.0	348.0	100.6	+ 1.64
8 16.5			
8 16.8			
21483.553			

Sept. 11, 1917

Iris. VII

P.a 30

δ 24.8 124.2

175.0 50.8

301.6 56.2

357.8 107.0 + 1.49

+ 1.64

125.2

174.8 49.6

307.6 44.4

351.0 94.0 + 1.80

P.a 210 Mean = + 1.42

211.4

267.0 55.6

23.4 63.4

86.8 119.0 + 1.21

208.8 + 1.20

271.4 62.6

30.8 57.2

δ 30.4 ~~88.8~~ 117.8 + 1.20

δ 27.6

δ 27.9

2148 3.561

Sept. 11, 1917

Iris VIII

	P.a. 210		
δ 35.7	209.2		
	266.2	57.0	
	25.3	66.3	
	91.6	123.3	+1.12
			+1.10
	201.4		
	271.7	70.3	
	30.4	54.4	
	84.8	124.7	+109
	P.a. 30	Mean = +1.34	
	300.8		
	351.4	50.6	
	124.8	53.0	
	177.8	103.6	+1.57
	298.8		+1.58
	358.8	60.0	
	127.6	42.8	
δ 40.7	170.4	102.8	+1.59
δ 38.2			
δ 38.5			

21483.568

Sept. 11, 1917

Iris. IX

	Pa 30		
8 49.0	306.8		
	348.2	41.4	
	123.6	58.8	
	182.4	100.2	+1.65
	297.2		+1.58
	356.8	59.6	
	126.6	46.0	
	172.6	105.6	+1.52
	Pa 210		Mean = +1.34
	29.2		
	81.6	52.4	
	204.2	70.2	
	274.4	122.6	+1.14
	21.4		+1.10
	~~88.8~~	67.4	
	209.2	58.2	
8 54.4	267.4	125.6	+1.07
103.4			
8 51.7			
8. 52.0			

21 [illegible] 3.578

Sept. 11, 1917

Iris. X

	Pa. 210		
9 04.7	29.6		
	85.2	55.6	
	210.4	60.0	
	270.4	115.6	+1.29
	26.3		+1.26
	89.8	63.5	
	210.6	54.8	
	265.4	118.3	+1.23
	Pa. 30		Mean = +1.44
	122.6		
	171.2	48.6	
	303.3	53.1	
	356.4	101.7	+1.61
	121.7		+1.62
	178.8	57.1	
	309.8	43.5	
9 09.5	353.3	100.6	+1.64
9 07.2			
9 07.4			

2118 3.588

~~Sept~~ Sept 11, 1917

Iris. XI

P.a. 30
9 15.2 125.5
171.2 45.7
300.8 54.4
355.2 100.1 +1.65

121.7 +1.72
176.7 55.0
306.8 40.0
346.8 95.0 +1.78

P.a 210 Mean = +1.48
210.7
266.2 55.5
22.7 68.6
91.3 124.1 +1.10

207.2 +1.23
270.4 63.2
35.2 49.2
9 20.6 84.4 112.4 +1.36
9 17.9
9 18.2

2148 3.596

Sept. 11, 1917

Iris.

XII

	P.a. 210		
9 28.0	212.7		
	267.3	546	
	21.8	68.0	
	89.8	1226	+1.14
	204.4		+1.12
	271.6	672	
	29.4	56.4	
	85.8	123.6	+1.11
	P.a. 30	Mean = +1.37	
	304.8		
	348.4	43.6	
	120.4	550	
	175.4	98.6	+1.69
	297.8		+1.62
	358.6	60.8	
	124.2	441	
9 33.6	168.3	104.9	+1.54
61.6			
9 30.8			
9 31.1			
21483.605			

Sept. 11, 1917

Iris.

XIII

	P.a. 30		
9 40.8	307.2		
	3$\overset{6}{\cancel{4}}$4.4	57.2	
	126.3	42.3	
	168.6	99.5	+1.67
			+1.62
	302.4		
	351.4	49.0	
	122.0	54.8	
	176.8	103.8	+1.56
	P.a 210		Mean = +1.42
	30.6		
	83.8	53.2	
	207.5	66.7	
	274.2	119.9	+1.19
			+1.22
	26.4		
	89.6	63.2	
	209.8	54.2	
9 46.0	264.0	117.4	+1.25
9 43.4			
9.437			

21483.614

Sept. 11, 1917

Iris XIV

	Pa. 210		
9 53.7	30.8		
	88.0	57.2	
	210.4	57.3	
	267.7	114.5	+1.31
	30.6		+1.22
	89.8	59.2	
	206.0	63.6	
	269.6	122.8	+1.13
	P.a. 30		Mean = +1.43
	126.2		
	164.7	38.5	
	300.0	59.6	
	359.6	98.1	+1.70
	119.4		+1.64
	175.0	55.6	
	305.0	47.6	
9 59.0	352.6	103.2	+1.58
9 56.4			
9 56.7			

21483.623

Sept 11, 1917

Iris XV

P.a. 30

10 07.0 125.6

172.8 47.2

362.3 53.0

355.3 100.2 +1.65

+1.65

120 4

171.4 51.0

302 8 49.4

352.2 100.4 +1.65

P.a. 210 Mean = +1.47

212.3

260.6 48.3

27 2 62.6

89.8 110.9 +1.40

+1.29

203.3

271.3 68.0

31.0 52 6

10 12.2 83 6 120.6 +1.18

10 09.6

10 09.9

2148 3632

Sept. 11, 1917

Iris

XVI

P.a 210

10 19.5 215.0

261.0 46.0

23.3 69.5

92.8 115.5 + 1.29

209.6

268.4 58.8 + 1.38

32.4 48.8

81.2 107.6 + 1.47

P.a. 30 Mean = + 1.52

304.8

349.4 44.6

119.4 51.6

171.0 96.2 + 1.75

299.3

355.4 56.1 + 1.66

122.2 47.2

10 25.2 169.4 103.3 + 1.58

44.7

10 22.4

10 22.7

21483.640

Sept. 11, 1917

Iris XVII

	P.a 30		
10 32.4	308.4		
	350.6	42.2	
	119.4	53.8	
	173.2	96.0	+1.76
	299.7		+1.66
	358.9	59.2	
	127.4	44.3	
	171.7	103.5	+1.57
	P.a 210		Mean = +1.54
	33.3		
	81.4	48.1	
	208.8	58.0	
	266.8	106.1	+1.51
	29.2		+1.42
	93.2	64.0	
	210.4	54.0	
10 38.0	264.4	114.0	+1.33

10 36.2
10 36.5
21483.650

Sept. 16, 1917

Iris.

XVIII

	P.A. 210		
10 41.4	33.2		
	81.4	48.2	
	206.7	63.3	
	271.0	111.5	+1.38
	27.2		+1.33
	88.8	61.6	
	217.4	54.3	
	271.7	115.9	+1.28
	P.A. 30		Mean = +1.52
	127.8		
	168.2	40.4	
	300.4	54.4	
	354.8	94.8	+1.79
	117.7		+1.72
	176.4	56.7	
	306.2	43.7	
10 46.8	349.9	100.4	+1.65
10 44.1			
10 44.8			
21483.656			

Sept. 11, 1917

Iris XIX

P.a. 30

10 50.8	126.6		
	171.2	44.6	
	302.2	53.1	
	355.3	97.7	+ 1.71
			+ 1.38
	116.2		
	175.6	59.4	
	303.6	48.6	
	352.2	108.0	+ 1.46

P.a. 210 Mean = + 1.47

	214.7		
	262.4	47.7	
	25.6	65.8	
	91.4	113.5	+ 1.34
			+ 1.36
	209.2		
	269.2	60.0	
	33.3	52.0	
10 56.4	85.3	112.0	+ 1.37
10 53.6			
10 53.9			

Obs. increasingly difficult towards the end, due to lower altitude. Photos Ledg. P.a. 207.5 A

2188 3.662 Spr. 3.0

1484

Wed. Sept. 12, 1917

L.C. Obs. 15" Eq

RY Sagitt 191033

8 42 est 9.5 R 2

R Sagitt 191019

est 13.0

S Sagitt 191319

est 12.6

– Sagitt (G Var) ~~19149~~

est 13.3

Z Sagitt 191321

est α 5 N < 14th

T Sagitt 191017

9 00 est 12.3

R Coronae 154428

est 13.6

R Herc 160118

est 14.2

RU Herc 160625

t 3 Var (Yates chart) Est 13.6

Sept 12, 1917

W Coronae 161138 est 11.6

RV Herc 165631 est 13.0

X Coronae 154536 est 10.5
21 10
5 25

Z Coronae 155229 est 11.1

SS Oph. 165202 est 8.7
21 19
4 27 w-2.0

R Oph 170215 est Too low

RT Herc 170627 est
(13.0) 5 n

RU Oph 172809 est 12.8
21 38
4 10 +9.9

RT Oph 175111 est 13.3
21 41
3 50 +11.4

1000

RY Herc 175519 est 10.5
21 43
3 48 +19.8

Sept. 12, 1917

T Herc 1805 31 est 12.4
2150
3 41 + 31.0

SV Herc 182224 est 13.1
2154
3 32 + 24.9

T Serp. 182306 est 13.6
2158
3 35 + 6.6

RY Lyrae 184134 est 13.6
2201
3 20 + 34.6

RW Lyrae 184243
2206
3 24 + 43.5
variable rarely seen = 14.2±

est of sequence =
Southern (8.9) 1 North (8.9) 6 (9.5) 2 (9.8)
(9.8) 10 (10.9) 4 (11.5) 3 (11.1) 6 (11.8) 5 (12.3)
(12.3) 5 North (12.8) 2 South ((12.8) 0) 5 (13.4)
(13.4) 3 q 4 r $\overset{2}{5}$ s 5 t

Sept 12, 1917

RX Lyrae 185032 est 11.6

22 20

3 30 + 33.0

Z Lyrae 185634 est 14.2

22 22

3 26 + 34.8

RT Lyrae 185737 est 11.5

22 30

3 33 + 37.7

SS Aurigae ~~06~~ 30 0547 < 13.5

1100

22 35

7 ~~05~~ 30 2 + 47.8

(27) (27)

Thurs Sept 13, 1917

β Cep 15" Eq.

P.a. 190 Iris: Phot T.

7 22.0 27.3 < comp ✶ dis.

90.4 63.1 I

214.2 54.2

268.4 117.3 + 1.25

+ 1.22

337

83.2 49.5

208.3 71.1

279.4 120.6 + 1.18

P.a. 10 Mean = + 1.34

120.6

181.4 60.8

308.8 47.5

356.3 108.3 + 1.46

125.2 + 1.46

171.4 46.2

298.7 62.5

7 28.4 361.2 108.7 + 1.45

7 25.4 Same comp ✶ as on Sept 10 & 11, 1917

7 25.1

21485.517

Ci watch = 20s fast at 7:00

Sept 13, 1917.

Iris

II

	pa 10		
735.5	117.2		
	182.2	65.0	
	307.4	47.3	
	354.7	112.3	+1.36
	132.2		+1.46
	177.7	45.5	
	302.8	58.4	
	361.2	103.9	+1.56
	pa 190	Mean = +1.36	
	206.3		
	276.7	70.4	
	36.6	50.7	
	87.3	121.1	+1.17
	215.4		+1.26
	264.8	49.4	
	28.4	63.8	
741.7	92.2	113.2	+1.36
738.6			
738.3			

21485.526

Sept. 13, 1917

Iris III

	P.a. 190		F.L.D. Red
> 47.4	212.0		
	274.4	62.4	
	35.4	49.0	
	84.4	111.4	+1.39
	216.2		+1.42
	>263.3	47.1	
	30.2	62.1	
	92.3	109.2	+1.44
	P.a. 10		Mean = +1.43
	300.5		
	>362.3	61.8	
	131.7	42.7	
	174.4	104.5	+1.55
			+1.44
	306.7		
	>351.2	44.5	
	114.7	68.9	
752.7	183.6	113.4	+1.34
1001			
> 500			
> 249.7			
2148.5 535			

Sept. 13, 1917

Iris. IV

8 5.5m	PA-10		
	301.4	✓	
	>357.7	56.3 ✓	
	125.2	51.6 ✓	
	176.8	107.9 ✓	+1.47
			+1.46
	305.8	✓	
	>352.4	46.6 ✓	
	125.1	61.7 ✓	
	186.8	108.3	+1.46
	PA-190	Mean = +1.42	
	29.4	✓	
	>92.0	62.6	
	218.2	48.4	
	266.6	111.0	+139
			+1 38
	37.7		
	>87.2	49.5	
	212.9	62.9	
8-9.5m	275.8	112.4	+136

8 7.5

8 7.2

21485.547

Sept. 13, 1917

Iris V

	P.a. 190		
8 21.1	27.3	✓	
	>89.2	61.9 ✓	
	216.8	49.4 ✓	
	266.2	111.3 ✓	+ 1.39
	38.8	✓	+ 1.36
	>82.4	43.6 ✓	
	205.2	70.3 ✓	
	275.5	113.9	+ 1.33
	P.a. 10		Mean = + 1.51
	124.5	✓	
	>180.6	56.1 ✓	
	307.4	43.5 ✓	
	350.9	99.6 ✓	+ 1.67
			+ 1.66
	131.8	✓	
	>172.7	40.9	
	299.7	59.0 ✓	
8 25.5m	358.7	99.9 ✓	+ 1.66

8 23.3

8 23.0

> 1 of 5 ; 5 58

Sept. 13, 1917.

Iris VII

	P.a. 10		
8.33.9	123.3	✓	
	>180.6	57.3 ✓	
	311.2	45.1 ✓	✓
	356.3	102.4 ✓	+1.60
			✓
	127.7		+1.57
	>171.8	44.1 ✓	
	303.2	60.8 ✓	✓
	364.0	104.9 ✓	+1.54
	P.a. 190		Mean = +1.50
	~~303.2~~		
	208.8	✓	
	>274.4	65.6 ✓	
	36.6	47.8 ✓	✓
	84.4	113.4 ✓	+1.34
			+144
	220.3	✓	
	>262.6	42.3 ✓	
	27.6	62.1 ✓	✓
8.~~37.7~~ 38.0 m	89.7	104.4 ✓	+1.55
8.36.0			
8 35.7			
21485.567			

Sept. 13, 1917.

Iris VII

	P.a. 190			
8 46.4	213.2	✓		
	>269.3	56.1 ✓		
	40.0	43.2 ✓	✓	
	83.2	99.3 ✓	+1.67	
			✓	
	215.4	✓	+1.58	
	>262.2	46.8 ✓		
	27.8	60.4 ✓	+ ✓	
	88.2	107.2 ✓	1.48	
			✓	
	P.a. 10		mean = +1.58	
	304.2	✓		
	>358.8	54.6 ✓		
	129.4	47.3 ✓		
50.5	176.7	101.9	+1.61 ✓	
	312.2	✓	+1.58	
	>356.0	43.8 ~~44.8~~ ✓		
~~8 51:~~	119.8	60.9 ✓		
8 51.3 m	180.7	104.7	+1.54 ✓	

8 48.8

8 48.5

21485.576

Sept. 13, 1917

Iris VIII

	P.a. 10			
8 56.1	304.0	✓		
	357.7	53.7 ✓		
	127.7	47.5 ✓		
	175.2	101.2 ✓	+1.63 ✓	
			8	
	305.2		+ 1.4~~4~~	
	355.6	50.4 ✓		
	118.7	63.0 ✓		
	181.7	113.4 ✓	+1.34 ✓	
	P.a. 190		Mean =	+1.52
	31.3			
	91.2	59.9 ✓		
	217.4	42.4 ✓	1.60 ✓	
	259.8	102.3 ✓	+ ~~1.85~~	
			56	
	38.7	✓	+1.~~68~~	
	80.7	42.0 ✓		
	211.4	64.0 ✓		
9 0.5	275.4	106.0 ✓	+ 1.51	
8 58 3				
8. 58.0				
21485.582				

Sept. 13, 1917.

Iris IX

	P.a. 190		
9 6.1	28.4		
	>88.8	60.4 ✓	
	214.8	51.4 ✓	
	266.2	111.8 ✓	+1.38 ✓
	37.7		+1.46 ✓
	>84.7	47.0 ✓	
	213.8	57.8 ✓	
	271.6	104.8 ✓	+1.54 ✓
	P.a. 10		Mean = +1.54
	126.6		
	>181.2	54.6 ✓	
	307.2	45.6 ✓	
	352.8	100.2 ✓	+1.65 ✓
	127.8	✓	+1.62 ✓
	>173.7	45.9 ✓	
	303.1	56.7 ✓	✓
9 10.2	359.8	102.6	+1.59

9 10.2

4.1

~~9 10.2~~

.383

9 8.2 ✓

.3 ✓ 21483,589 ✓

9 7.9 ✓

5 ✓

14 7.9

Sept. 13, 1917

Iris. X

	P.A. 10		
9 22.4	303.3	✓	
	> 358.9	55.6 ✓	
	130.0	48.3 ✓	
	178.3	103.9 ✓	+ 1.56 ✓
	304.1	✓	+ 1.50 ✓
	> 356.8	52.7 ✓	
	124.2	55.7 ✓	
	179.9	108.4	+ 1.45 ✓
			mean = + 1.53 ✓
	P.A. 190		
	216.0		
	> 263.1	47.1 ✓	
	30.6	56.6 ✓	
	87.2	103.7 ✓	+ 1.57 ✓
	– 212.4	✓	+ 1.56 ✓
	> 273.4	61.0 ✓	
	40.8	43.6 ✓	
9 27.0	84.4	104.6 ✓	+ 1.54 ✓
4.6 ✓			
9 24.7 ✓			
9 24.4			
21483.600 ✓			

Sept. 13, 1917.

Iris XI

	P.a. 190		
9 33.4	216.6	✓	
	>263.3	46.7 ✓	
	30.8	59.0 ✓	
	89.8	105.7	+ 1.52 ✓
	209.9	✓	+ 1.49 ✓
	>271.8	61.9 ✓	
	37.7	46.1 ✓	
	83.8	108.0 ✓	+ 1.46 ✓
	P.a. 10	mean =	+ 1.51 ✓
	126.6		
	>173.1	46.5 ✓	
	302.2	57.2 ✓	
	359.4	103.7	+1.57 ✓
	122.8	✓	+1.53 ✓
	>181.6	58.8 ✓	
	307.4	48.1 ✓	
9 37.5	355.5	106.9 ✓	+1.49 ✓
4.1			
9 35.4			
.3			
14 35.1 ✓			
21483.608			

Sept. 13, 1917

Iris ~~XII~~

	P.a. 10			
9 45.1	126.4			
	175.2	48.0		
	303.9	56.2		
	360.1	~~104.8~~	+1.54	
		105.0		
	119.7			~~1.54~~
	178.2	58.5		+1.50
	305.5	49.7		
	355.2	~~10 .2~~	~~1.55~~	
		108.2	~~1.48~~ +1.46	
	P.a. 190		mean = +1.40	
	~~57.~~ 27.7			
	88.9	61.2		
	217.8	47.1		
	264.9	108.3	+1.46	
	33.0		+1.49	
	84.9	51.9		
	206.4	71.3		
9 50.6	277.7	123.2	+1.12	

9 57
9 47.8
9 47.5
21 48 5.61

Sept. 13, '17

Iris XIII

	P.a. 190			
9 ~~56.8~~	~~24.0~~			
59.5	~~104.2~~	~~80.2~~		
	34.0	✓		
	90.7	56.7 ✓		
	> 215.6	55.4 ✓		✓
	271.0	112.1 ✓	+ 1.37	
				✓
	28.8	✓		~~+ 1.42~~
	> 86.6	57.8 ✓		1.41 5
	217.2	50.5 ✓		
	267.7	108.3 ✓	+ 1.46 ✓	
	P.a. 10			~~1.39~~
	307.4	✓	Mean = + ~~1.40~~	
	> 359.8	52.4 ✓	1.39	
	120.0	60.0 ✓	✓	
	180.0	112.4 ✓	+ 1.36	
	308.0		+ 1.3~~8~~7 5 ✓	
	> 356.6	48.6 ✓		
	119.2	62.6 ✓	✓	
10 3.5	181.8	111.2 ✓	+ 1.39	

10 01.5

10 01.3

21485.626

Sept. 13, 1917

Iris

XIV

	P. a. 10			
10 8.5	302.8	✓		
	>361.6	58.8 ✓		
	123.1	54.5 ✓	✓	
	177.6	113.3	+ 1.34	
	304.0	✓	+ 1.355 ✓	
	>360.4	56.4 ✓		
	124.4	55.6 ✓	✓	
	18~~3~~0.0	112.0	+ 1.37	
	P. a. 190		mean = + 1.32 ✓	
	265.4	✓		
	>275.0	69.6 ✓		
	37.2	49.6 ✓	✓	
	86.8	119.2	+ 1.21	
	213.7	✓	+ 1.295 ✓	
	>265.7	52.0 ✓		
	31.4	59.8 ✓	✓	
10 13.2	91.2	111.8	+ 1.38	
21.7				
10 10.8				
10 10.5				
21685.632				

Sept. 13, 1917

Iris XV

	P.a. 190		
10 21.7	208.7	✓	
	>274.2	65.5 ✓	
	34.8	50.0 ✓	
	84.8	115.5	+1.29 ✓
	216.6	✓	+1.33 ✓
	>266.6	50.0 ✓	
	27.6	62.2 ✓	
	89.8	112.2	+1.37 ✓
	P.a. 10		Mean = +1.32
	120.0	✓	
	>181.5	61.5 ✓	
	303.5	50.7 ✓	
	354.2	112.2	+1.37 ✓
	125.6	✓	+1.32 ✓
	>177.4	51.8	
	299.4	64.5 ✓	
10 26.0	363.9	116.3 ✓	+1.27 ✓

7.7

10 23.8

10 23.5

21485.642

Sept. 13, 1917

Iris. XVI

	P.a. 10			
10 32.4	117.7	✓		
	186.0	68.3 ✓		
	303.1	53.3 ✓		
	356.4	121.6 ✓	+1.16 ✓	
	124.8		+ 1.26 ✓	
	177.8	53.0 ✓		
	299.0	59.6 ✓		
	358.6	112.6 ✓	+ 1.36 ✓	
	P.a. 190	Mean =	~~1.24~~ + 1. 30	
	36.4	✓		
	85.6	49.2 ✓		
	209.6	61.1 ✓		
	270.7	110.3 ✓	+ 1.41	
			1.335	
	29.5	✓	+ ~~1.225~~	
	92.0	62.5		
	213.6	54.5 ✓		
10 37.2	268.1	~~127.0~~ ✓	+ 1.~~04~~ 26	
9 6		117.0		
10 34.8				
10 34.5				
21485.649				

P.a. = 189 A

Sfr > 3.7

Sept. 13, 1917

Iris, XVII

	P.a. 190			
10 42.0	215.7			
	›264.6	48.9 ✓		
	25.6	66.6 ✓		
	92.2	115.5 ✓ ✓	+ 1.29 ✓	
	207.8			+1.32 ✓
	›275.2	67.4 ✓		
	38.7	45.6 ✓ ✓		
	84.3	113.0	+ 1.35 ✓	
	P.a. 10			+1.32 ✓
	124.8			
	›174.2	49.4 ✓		
	297.1	64.3 ✓		
	361.4	113.7 ✓	+ 1.33 ✓	
	117.5			+ 1.3~~4~~5 ✓
	›181.1	63.6 ✓		
	306.6	51.5 ✓		
10 47.5	358.1	11~~4~~.1 ✓	+ 1.3~~2~~°	
9.5		5		
10 4~~48~~				
10 44.5				
21485.656				

plates ledgered

Sun. Sept. 16, 1917

L.C. Obs. 15" Eq.

7 15 Z Bootis 140113 est 11.7

RS ~~Boo~~ Virg 142205 est 12.2

1912

H 53 +5.1

U Bootis 144918 est 9.8

1919

4,30 +18.1

Y Librae 150605 est 9.7

1920

4 14 −5.0

RU Librae 152714 est 13.3

1927

40 −14.9.

region low, est difficult.

R Librae 154715 est <13.5

1931

3 24 w −16.3

Sept. 16, 1917.

Z Scorpii 160021 est 12.8
1937
337 −21.4

X Scorpii 160221 est <13.4

W Scorpii 160519 est 11.7

R Scorpii 161122a est 12.1
S Scorpii 161122b est <13.5

W Oph 161607 est 11.6

T Oph 162815 est m 5 Var = 13th

S Oph 162816 est 10.6

RR Oph 164319 est = 10.8
1957
314 −19.3

800

R Ophiuchi 170215 Est 12.7
2002
30

RS Oph 174406 est 11.2
2004
220 − 6.7

Sept. 16, 1917

ST Sagitt 185512 est 9.6

$\frac{2008}{1\ 13\ W-12\ 9}$

S Serp. 151714 est 9.3

S Coronae 151731 est 12 6

R Serp 154615 est 12 1

$\frac{2023}{4\ 37\ W+15.4}$

U Serp 160210 est 12 7

$\frac{2027}{4\ 25\ +10.2}$

SS Herc 162807 est 9 7

S Herc 164715 est 10.3

$\frac{2033}{3\ 46\ +15\ 1}$

S Urs Maj 123961 est 9.4

T Urs Maj 123160 est 8.6

RS Urs May 123459 est 13. 3
Var susp only.

Sept. 16, 1917.

T Ursa Min (133273 est 11.9

2046

7 14 +73.9

R Can Ven 134440 est 9.1

2048

7 04

R Coronae 154428 est 13.7

20 54

5 10 w +28.5

δ 5-6 (13.1) 6 R Cor, x 1 R Cor

RT Aquilae 193311 est 13.7

2104

~~7~~ 31 w +11.6

RV Aquil 193509 est 12.1

X aquilae 194604 est 13.8

21 12

1 26

R R Aquilae 195202 est 13.5

21 15

1 23 -2.2

Sept. 16, 1917

R S Aquilae 195308 est <13.8
21 19
1 26 −8.2

R Capric 200514 est 11.5
R5
21 23
1 18 −14.6

Z Aquilae 200906 est 9.1
21 26
1 17 −6.5

RT Capric 201121 est 7.8
21 29
1 18 −21.9

9 30 W Capric 200822 est 0 3 n <13.5
see Yerkes chart

RU Capric 202622 est 11.5
21 32
1 6 −22.7

T Aquarii 204405 est 13.0
21 36
0 52 −5.5

(H 3) (7°)

Y Aquarii 203905 est var 29'

9 45 W Aquarii 204104 est w 2 var
see Yerkes chart

Tues. Sept. 18, 1917

L.C. Obs. 15" Eq. Plot T.

Iris
19 30 -14.7
19 05?
0 25 E

F.L. Du. Rec.

Same Comp * as on last occasion.
P.A. 320 — 15.0 5386 (7.8)

> 11.0 300.6 < Comp * dis
346.2 45.6
121.2 51.2
172.4 96.8 +1.74

I

302.2
347.2 45.0 +1.84
124.4 43.9
168.3 88.9 +1.94

Mean = +1.63

P.a. 160
27.4
79.2 51.8
210.0 55.1
265.1 106.9 +1.49

~~7 15.5~~ ~~265.1~~ +1.42
7 13.9 29.2
21490.510 85.8 56.6
206.1 56.3
7-16.8 262.4 112.9 +1.35

Sept. 18, 1917

Iris II.

	P.a. 140		
7 21.7	26.4	✓	
	84.6	58.2 ✓	
	207.0	54.8 ✓	✓
	261.8	113.0 ✓	+1.35
	24.6	✓	+1.43
	87.8	63.2 ✓	
	214.4	43.0 ✓	
	257.4	106.2 ✓	+1.51 ✓
	P.a. 320		Mean = +1.56
	118.2	✓	
	170.4	52.2 ✓	
	301.6	49.3 ✓	
	350.9	101.5 ✓	+1.62
			+1.70
	121.1	✓	
	172.2	51.1 ✓	
	302.6	43.8 ✓	
7 26.4	346.4	94.9	+1.79
8.1			
7 24.0			
21490.317			

Sept. 18, 1917.

	P.A. 320		
> 29.0	121.3		F. L. Du. Ob
	166.2	44.9	Experimental Only
	291.3	66.9	
	358.2	111.8 +	1.38
	P.a. 140		+1.64
	208.2		
	261.4	53.2	
	36.2	37.6	
> 38.6	73.8	90.8 +	189

Sept. 18, 1911

L. Alb.

III

P.a. 140

> ~~29.0 121.3~~ 39.8 — 210.4
~~166.2~~ 7

,259.2 48.8 ✓
25.1 56.1 ✓ ✓
81.2 104.9 ✓ + 1.54

+ 1.52
~~1.52~~

206.8 ✓
,260.4 53.6 ✓
29.1 53.5 ✓
82.6 107.1 + 1.49

P.a. 320 Mean = + 1.53

303.0 ✓
,351.4 48.4 ✓
118.2 59.2 ✓
177.4 107.2 6 + 1.48 7

299.0 ✓ 1.5~~8~~ 4
,353.9 54.9 ✓
119.8 46.6 ✓
7 43.5 166.4 101.5 + 1.62
83.3
7 41.6

21490.529

Sept. 18, 1917.

Iris, IV.

	P.a. 320		
7 54.1	300.6	✓	
	346.9	46.3 ✓	
	118.2	51.4 ✓	
	169.6	97.7	+ 1.71 ✓
	300.2	✓	+ 1.635 ✓
	353.6	53.4 ✓	
	119.4	50.4 ✓	
	169.8	103.8	+ 1.56 ✓
	P.a. 140		mean = + 1.62 ✓
	31.0	✓	
	80.1	49.1 ✓	
	210.1	55.7 ✓	
	265.8	104.8	+ 1.54 ✓
	31.9	✓	+ 1.595
	85.2	53.3 ✓	
	211.6	46.8 ✓	
7 58.3	258.4	100.1	+ 1.65 ✓
7 56.2			

21490.539

8.00 C's watch = 0.1. sec. slow. by Bell.

Sept. 18, 1917

Iris V

P.a. 140
~~808.9~~ 810.1 210.2 ✓
> 256.6 46.4 ✓
29.2 5~~8~~2.1
81.3 98.5 ✓ + 1.69 ✓

211.4 +1.53 ✓
> ~~261~~265.1 53.7 ✓
25.5 58.4 ✓
83.9 112.1 ✓ + 1.37 ✓

P.a. 320 Mean = +1.51
120.8
> 173.2 52.4 ✓
297.4 55.2 ✓
352.6 107.6 ✓ + 1.47 ✓

119.6 + 1.48 ✓
> 176.0 56.4 ✓
301.9 50.4 ✓
8.15.0 352.3 106.8 ✓ + 1.49 ✓
251
8 12.6

21490.551

Sept. 18, 1917.

Iris VI

	P.a. 320		
8 20.0	120.4	✓	
	170.7	50.3 ✓	
	299.2	54.1 ✓	
	353.3	104.4	+1.55 ✓
	116.0	✓	+1.565 ✓
	171.0	55.0 ✓	
	302.0	48.2 ✓	
	350.2	103.2	+1.58 ✓
	P.a. 140		Mean = +1.52 ✓
	30.8	✓	
	75.8	45.0 ✓	
	205.6	58.6 ✓	
	264.2	103.6	+1.57 ✓
	28.4	✓	+1.48 ✓
	83.4	55.0 ✓	
	207.4	56.3 ✓	
8 24.3	263.7	111.3	+1.39 ✓
8 22.2			

21490.558

Sept. 18, 1917

Iris ~~VII~~

	P.a. 140		
8 30.3	31.5	✓	
	,79.2	47.7 ✓	
	208.1	51.7 ✓	
	259.8	99.4	+ 1.67 ✓
	25.2	✓	+ 1.58 ✓
	,78.4	53.2 ✓	
	211.4	53.9 ✓	
	265.3	107.1	+ 1.49 ✓
	P.a. 320		Mean = + 1.55 ✓
	300.0	✓	
	,350.9	50.9 ✓	
	117.8	54.8 ✓	
	172.6	105.7	+ 1.52 ✓
	302.1	✓ +	1.52 ✓
	,357.8	53.7 ✓	
	121.9	49.8	
8 34.8	171.7	105.5 ✓	+ 1.52 ✓
8 32.6			

21490.565

P.a. 315. A
Spr. 6.7

Sept. 18, 1917

Iris VIII.

	P.a. 320		
8 42.2	120.2		✓
	169.6	49.4	
	297.8	54.8 ✓	
	352.6	104.2 ✓	+ 1.55 ✓
	120.0	✓	+ 1.58 ✓
	171.6	51.6 ✓	
	299.2	50.1 ✓	
	349.3	101.7 ✓	+ 1.61 ✓
	P.a. 140		
	28.1		Mean = +1.54 ✓
	76.8	48.7 ✓	
	202.2	64.2 ✓	
	266.4	112.9 ✓	+ 1.35 ✓
	29.1		+ 1.50 ✓
	81.2	52.1 ✓	
8 46.7	211.7	48.7 ✓	
8 444	260.4	100.8 ✓	+ 1.64 ✓

21690.572

Sept. 18, 1917.

Iris IX

	P.a. 140		
8 57.4	28.2		
	>78.4	50.2 ✓	
	205.3	61.6 ✓	
	266.9	111.8 ✓	+1.38 ✓
			✓
	28.8	✓	+ 1.48 ✓
	>84.8	56.0	
	209.0	51.6 ✓	
	260.6	107.6 ✓	+1.47 ✓
	P.a. 320		Mean = ~~1.51~~ + 1.48
	303.6		
	>349.6	46.0 ✓	
	116.0	59.1 ✓	
	175.1	105.1 ✓	+1.53 ✓
	299.6		+ 1.54 ✓
	>353.7	54.1 ✓	
	119.2	50.2 ✓	
9 01.0	169.4	104.3 ✓	+ 1.55 ✓
8 59.2			
21490.583			

Sept. 18, 1917

Transits of Iris –

	Bright star	
~~9 20~~	~~34.4 s.~~	~~(1)~~
~~9 21~~	~~06.4 s.~~	~~(1)~~
~~9 21~~		
~~1~~	~~48.9~~	~~(1)~~
	~~03.0~~	~~(2)~~
	~~14.2~~	~~(1)~~
~~22~~	~~13.8~~	~~(2)~~
~~22~~	~~34.~~	~~(1)~~
~~22~~	~~47.2~~	~~(2)~~
~~23.~~	~~10.1~~	~~(1)~~
	~~15~~	
	~~17~~	
~~23~~	~~47~~	~~(1)~~
	~~56~~	~~(2)~~
	~~58~~	~~(3)~~
~~9 24~~	~~08~~	~~(1)~~
	~~21~~	~~(2)~~
	~~42~~	~~(3)~~
~~24~~	~~1~~	~~(1)~~
	~~5~~	~~(2)~~
	~~7~~	~~(3)~~
	~~11~~	~~(1)~~

21				
9	26	06	1	
	26	10	(2)	
	26	18	(3)	– Iris.
	43		(1)	
	56.5		(2)	
	27	15	(3)	
21 9	27	30	(1)	
		34.3	(2)	
	27	41.5	(3)	Iris ?
	28	05.5	(1)	
		18.2	(2)	
		38.8	(3)	Iris

*1 & 2 in Northern part of field.

(Iris) *3 ✗ in Southern part of field

Sept. 18, 1917

Iris X

	P.a. 320		
926.2	295.8		
	347.4	51.6 ✓	
	121.5	43.7 ✓	
	165.2	95.3 ✓	+1.77 ✓
	302.8		+1.72 ✓
	348.0	45.2 ✓	
	121.3	53.8 ✓	
	175.1	99.0 ✓	+1.68 ✓
	P.a. 140		Mean +1.54 ✓
	23.1		
	79.4	56.3 ✓	
	210.4	55.2 ✓	
	265.6	111.5 ✓	+1.38 ✓
	28.1		+1.375 ✓
	83.8	55.7 ✓	
	206.4	57.2 ✓	
930.2	263.6	112.9 ✓	+1.35
928.2			

21490.603

Sept, 18, 1917.

Iris

XI

9 3	P.a. 140		
9 36.8	206.8	✓	
	›268.8	62.0 ✓	
	28.2	49.5 ✓	✓
	77.7	111.5	+ 1.38
			✓
	206.6	✓	+ 1.43
	›259.4	52.8 ✓	
	28.6	54.7 ✓	✓
	83.3	107.5	+ 1.48
	P.a. 320		Mean ≐ +1.62 ✓
	115.6	✓	
	›174.9	59.3 ✓	
	306.2	39.8	✓
	346.0	99.1 ✓	+ 1.68
			✓
	123.3	✓	+ 1.82
	›165.4	42.1 ✓	
	299.4	46.6 ✓	
9 41.7	346.0	88.7	+ 1.95 ✓
8.5			
9 39.2			

21490.610

Sept. 18, 1917.

Iris. XII

	P.a. 320		
9 48.8	118.9	✓	
	›171.6	52.7 ✓	
	302.0	42.1 ✓	
	344.1	94.8	+ 1.79 ✓
	119.8		+ 1.775 ✓
	›164.6	44.8 ✓	
	298.2	51.0 ✓	
	349.2	95.8 ✓	1.76 ✓
	P.a. 140	Mean = + 1.59 ✓	
	23.0	✓	
	›84.8	61.8 ✓	
	208.6	48.8 ✓	
	257.4	110.6 ✓	+ 1.40 ✓
	31.2	✓	+ 1.41 ✓ 18
	›80.7	49.5 ✓	
	203.8	60.6 ✓	
9 53.1	264.4	110.1 ✓	+ 1.42 ✓
101.9			
9 51.0			

21490.619

Sept. 18, 1917.

Iris. XIII

	P.a. 140		
10 11.6	23.8	✓	
	81.9	58.1 ✓	
	206.7	52.1 ✓	
	258.8	110.2 ✓	+ 1.41 ✓
			✓
	30.4	✓	+ 1.395
	83.0	52.6 ✓	
	203.2	59.0 ✓	
	262.2	111.6 ✓	+ 1.38 ✓
	P.a. 320	Mean = +1.575	
	297.2	✓	
	346.1	48.9 ✓	
	123.6	46.4 ✓	
	170.0	95.3 ✓	+ 1.77 ✓
			+ 1.76
	303.9	✓	~~1.635~~
	345.8	41.9 ✓	
	116.0	54.4 ✓	1.75
10 16.3	170.4	~~14~~6.3 9	~~1.50~~
7.9			
10 14.0			
21490.635			

Sept. 18, 1917.

Iris XIV

	P.a. 320		
10 27.2	300.4	✓	
	,346.2	45.8 ✓	
	121.9	42.7	✓
	164.6	88.5 ✓	+ 1.95
	300.3	✓	+ 1.845 ✓
	,348.7	48.4 ✓	
	121.4	48.2	✓
	169.6	96.6 ✓	+ 1.74
	P.a. 140		Mean = + 1.73 ✓
	208.4		
	,264.6	56.2 ✓	
	29.3	48.5 ✓	
	77.8	104.7 ✓	+ 1.54 ✓
	210.4		1.61 ✓
	,261.1	50.7 ✓	
	33.0	48.4 ✓	
10 32.0	81.4	99.1 ✓	+ 1.68 ✓
59.2			
10 29.6			

Obs. difficult on account of low alt.

21490.646

Sept, 18, 1917.

Iris, XV

	P.a. 140		
10 35.6	203.4		
	263.6	60.2 ✓	
	26.4	48.3 ✓	
	74.7	108.5 ✓	+ 1.45 ✓
	205.2		+ 1.425 ✓ 17
	260.1	54.9 ✓	
	~~3~~24.8	55.9 ✓	
	80.7	110.8 ✓	+ 1.40 ✓
	P.a 320		mean + 1.59 ✓
	113.9		
	165.5	51.6 ✓	
	300.4	43.6 ✓	
	344.0	95.2 ✓	+ 1.78 ✓
	121.4		+ 1.760 ✓
	160.8	39.4 ✓	
	294.8	57.2 ✓	
10 40.3	352.0	96.6 ✓	+ 1.74 ✓
5.9			
10 38.0			

Impossible to continue further P.a. 315. a.

21490.651 Altitude too low Spr. 6.8

Photo ledgered } to here.
✓ is ledgered