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Observing Book 23

M.E. O'Reilly.

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Observing Book 23.

M. E. O'Reilly.

Mostly Southern Regions.

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Although the measures in this book and in all my books, were recorded in order of brightness, the stars were measured in as irregular order as possible, to obtain independent observations.

Sept. 11, 1918.

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Thursday August 3, 1916.

Scale α ~~12.~~ 1:05 Measures of a plate for H. S. Region a 11440 E 3 6 45 – 45°.

P.C.

	sc.1	sc.2		sc.1	sc.2
1	dbl.			dbl. sup. on another star.	
2				5.1	5.1
3				5.1	5.1
4				5.1	5.1
5				5.5	5.5
6					6.2
7					6.6
8	B.				7.5
9					7.9
10					8.6
11					8.6
12					8.7
13					10.2
14	1.2				9.3
15	1.9				10.3
16	t.p.				9.5
17	1.9				11.0
18	2.3				10.8
19	~~2.~~ 3.1				m.s.
20	2.8				10.8
21	2.4				11.0
22	3.3	B.			m.s.
23	3.8	~~4.1~~ Rij.			
24	4.8	4.8	4.80 00		
25	~~4.1~~ 4.6	4.1	4.65 01		
26	4.1	4.8	4.75 10		

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Thursday August 3, 1916.

Scale ∝ Measures of a plate for H.B. Region.
A 11470. D

	sc. A	sc. B ×	sc. C.	
27	5.5			
28	5.9			
29	6.6?			
30	sc. C. 7.1			
31	7.3			
32	7.6			
33	8.6	8.6	8.60	00
34	8.75	8.5	8.50	00
35	9.5	9.6	9.55	10
36	9.0	9.1	9.05	01
37	10.21	10.2	10.20	00
38	10.6	10.7	10.65	01
39	10.8	10.8	10.80	00
40	11.1 ft.	10.9	11.00	12
41	f.	f.		

Images rug poor. See also next page.

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Thursday, August 3, 1916 -

Scale 2

Scale measures of a plate for U.S. Region.
α 11440 - E 3 Diffr. Inn.
9 R

		sc A	sc B	sc C	sc A	sc B	sc C	Mean
	1	dbl.			dbl.			.
Edge	2	3.4			3.4			3.40 00
"	3	4.0?			t.p.			4.0? a.
	4	4.2			4.2			4.20 00
	5	4.5	~~4.2~~ Rej.		4.2			4.35 1±
	6	~~5.1~~ 4.1	~~4.7~~ 5.1	4.90 ±2	~~4.3~~ Rej.			4.90 00
	7	4.6	4.1	4.65 01	~~4.1~~ Rej.			4.65 01
	8		5.4		5.3			5.35 0±
	9		5.8		5.6			5.70 1±
	10		t.p.		t.p.			.
	11		5.6		5.6			5.60 00
	12		6.4		6.2			6.30 1±
	13		sup.	sup.	sup.			.
	14		7.1	7.0 7.05 0' 7.1	6.7			6.88 17 18
	15		8.1	7.8 7.70 1± 7.6	7.6 7.4			7.55 15 15
	16		7.1	7.0 7.20 ±2 7.4	7.4 7.3			7.25 05 05
	17			8.1		8.3		8.20 ±1
	18			8.4		8.5		8.45 01
	19			10.2		10.5		10.35 ±1
	20			9.5		9.1		9.30 22
	21			9.2		9.1 ~~8.7~~		9.15 01
	22			9.9		10.2		10.05 12
	23			10.2		10.2		10.20 00
	24			f		11.1?		11.1? a
	25			11.1?		f		11.1? a.
	26			f		f		.
	27			m s		m s		.

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Friday August 4, 1916.

Scale m. 10:21 — B 46638 — B Series 144. — C8 (15+15) see also next page — P.C.

	sc.1	sc.2	Diff		sc.1 sc.2
1	4.3 4.1		2.90		8.1 — 1.50
3	5.0 4.8	5 4.1	5.05 0 1 3.04		9.3 — 1.21
4 near edge.	b.f.	B.			8.8 — 1.08
6a	5.7 5.5	5.6	5.55 1 0 3.24		9.1? — 0.91
8	5.7 5.5	5.6	5.65 1 0 3.32		9.7 — 0.73
9	6.1 5.9	6.3	6.20 1 1 3.02		10.0 — 0.78
11	6.5 6.3	6.1	6.60 1 1 2.91		m.s.
12	6.8 6.6	6.8	6.80 0 0 2.95		
14	7.0 6.8	6.8	6.90 1 1 3.07		
15		7.3	3.06		
16		7.5	3.02		
18		7.8	2.88		
20a		7.9	3.32		
21		8.4	3.02		
22		8.6	3.22		
25		8.8	3.46		
25a		9.3	9.25 0 1 3.37		
26		9.2	9.3 3.48		
27		9.6	9.55 0 1 9.5 3.76		
28		10.0	10.00 0 0 10.0 3.86		
29					

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Friday August 4. 1916.

Scale m. B Series 144.

	B 46638 g		C8 h		Diffr. Inn.
	sc.1	sc.2	sc.1	sc.2	
1	7.3	7.2510	7.21	− 0.05	
3	8.1	8.1000	8.1	− 0.01	
4	t.f.		t.f.	,	
8	8.8	8.7501	8.3	0.22	
9	8.8	8.8000	8.8	0.42	
11	9.25	9.2501	9.3	0.26	
12	9.8	9.7501	9.7	0.00	
14	9.8	9.7501	9.7	0.22	
15	10.0	10.0000	10.0	0.36	
16	10.1		n.s.	042	
18	n.s.			,	
6a			t.f.	,	

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Scalem. B Series 144. Alt Corr +.01

B 46639 {Nova Normae 15 27-498

		sc.1	sc.2		Cu.	Magn	Diff. Im. g	h			P.C sc.2	
Seq for R Norm.	a	3.2 3.0	B.		3.23	6.43	th. 7.2 8.45 10				8.2	. .
	b	4.9 4.1	5.2	5.05 1 2	3.09	8.14	8.5 8.4	0.15	8.60		9.6	— 1.17 8.43
	c	5.3 5.1	5.3	5.30 0 0	3.06	8.36	8.60 0 0 8.6 8.6	0.16	8.76		9.9	— 1.05 8.85
	d	5.6 5.4	5.6	5.60 0 0	3.04	8.64	8.70 0 0 8.7 8.7	0.16	8.86		8.7	. .
	e	6.3 5.1	6.1	6.20 1 1	3.03	9.23	9.40 0 0 9.4 9.4	0.20	9.60			
	f	.	7.1		3.09	10.19	nearly sup. 10.0	0.26	10.26			
	g		7.7		3.19	10.89	n.s. n.s.	.	.			
	h		7.8		3.20	11.00						
	h'		8.1		3.25	11.35						
	k		8.5		3.35	11.85						
	l'		8.8		3.44	12.24						
	m		8.9		3.48	12.38						
	n		9.1		3.52	12.62						
	o		9.40 1 1 9.3	9.5	3.63	13.03						
	p		9.55 1 0 9.5	9.6	3.69	13.24						
	q		9.80 0 0 9.8	9.8	3.76	13.56						
	r		10.1 10.10 0 0 9.7 w.s.	10.1	3.86	13.96						
Var.		5.1			3.08	8.18	8.90 2 2 9.1 8.1	0.17	9.07		8.4	.

See also next page.

l not measured - nearly superposed -

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Scale m

B Series 144.

Alt Corr +01

~~To~~ B 46639 Nova Normae (15 27-498)

key for Nova	sc.1	sc.2		Cu.	Magn	Diffr. Im. g	h			P.C. sc.2		
a	4.0 3.8			3.14	7.14	7.2	t.f.	0.18	7.38	sup.		
b	4.4 4.2	4.5	4.45 0 1	3.11	7.56	7.8 8.10 0 0	t.f.	0.15	7.95	9.1	-1.30 ~~-0.19~~	7.80
c	4.9 4.1	4.8	4.85 1 0	3.09	7.94	8.1	8.1	0.15	8.25	9.1²	-0.28	7.92
d	5.6 5.4	5.6	5.60 0 0	3.04	8.64	8.65 0 1 8.6	8.7	0.16	8.81	9.8	-1.09	8.71
e	6.0 5.8	5.9	5.95 0 1	3.03	8.98	8.75 0 1 8.8	8.7	0.17	8.92	f	.	.
e'	6.4 6.2	~~5.7~~ 6.3	w.s. 6.35 0 1	3.03	9.38	9.10 0 0 9.1	9.1	0.19	9.29			
f	6.7 6.5	6.9	6.80 1 1	3.04	9.84	9.45 0 1 9.4	9.5	0.20	9.65			
h		7.2		3.09	10.29	f	f.	.	.			
k		7.7		3.19	10.89							
k'		8.0		3.23	11.23							
l		8.3		3.30	11.60							
m		8.1 9.10 0 0		3.41	12.11							
n		9.1	9.1 9.15 1 0	3.53	12.63							
o		9.1	9.2 9.75 0 1	3.55	12.70							
q		9.8	9.1 9.80 1 1	~~3.74~~ 3.44	13.49							
p		9.7	9.9	3.76	13.56							
r		f	f.	.	.							

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Scale m. B series 144- Alt Corr −.93

B 46640 South Pole −90°

	sc 1	sc 2	Cu.	Magn	Diffr. Im.		Cu.	Magn	sc 2	Cu.	Magn
	2.8										
a	3.6		3.28?	6.08?		6.4	0.21	6.61	7.6	.	.
	3.8										
b	3.6		3.17	6.97	t.p.	t.p.	.	.	8.5	.	.
	4.0										
c	3.8		3.14	7.14	t.p.	7.3	0.17	7.47	8.6	−1.39	7.21
	4.3										
d	4.1		3.12	7.42		t.p.	.	.	8.8	−1.36	7.44
	4.7										
e	4.5	4.8	4.75	1.0 3.10	7.85	t.p.	7.5	0.16	7.66	8.9	−1.34	7.56
	5.1										
e'	4.9	5.1	5.10	0.0 3.08	8.18		8.2	0.15	8.35	9.3	−1.26	8.04
	5.1	5									
f	4.9	4.2	5.15	1.0 3.08	8.23	t.p.	8.1	0.15	8.25	9.2	−1.28	7.92
	5.7										
g	5.5	5.6	5.65	1.0 3.04	8.69		8.3	0.15	8.45	9.1	−1.13	8.57
	5.8										
h	5.6	5.6	5.70	1.1 3.04	8.74		8.1	0.16	8.86	10.0	−1.00	9.00
	6.1										
k	5.9	6.4	6.25	1.2 3.03	9.28	t.p.	9.1	0.19	9.29	† (only trace)		
	6.6										
l	6.4	6.5	6.55	0.1 3.03	9.58		9.2	0.19	9.39			
	6.6										
l'	6.4	6.7	6.65	0.1 3.03	9.68		t.p.	.	.			
	7.0										
m	6.8	6.8	6.90	1.1 3.06	9.96	t.p.	9.6	0.22	9.82			
	7.0										
n	6.8	7.1	7.05	0.1 3.07	10.12		9.9	0.24	10.14			
n'		7.3	3.10		10.40		9.9	0.24	10.14			
206K = o		7.3	3.10		10.40		9.9	0.24	10.14			
p		7.7	3.19		10.89		n s.	.	.			
q		7.8	3.20		11.00							
r		8.1	3.25		11.35							
s		8.4	3.32		11.72							
s'		8.1	3.25		11.35							
t		8.3	3.30		11.60							
u		8.6	3.39		11.99							
w		8.7	3.41		12.11							
x		9.2	3.56		12.76							
y		9.4	3.62		13.02							
z		9.6	9.55	0.1 9.5	3.68							

q h images are elongated, not comp. check scale ∴ not measured

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Scale m.

B Series 144.

B 46640 South Pole cont.

	Rc.1	sc.2	sc.2	Cu.	Magn
		9.65	01		
α		9.6	9.7	3.70	13.35
β		9.8		3.76	13.56
γ		9.8		3.76	13.56
		9.85	01		
δ		9.8	9.9	3.78	13.63
		9.90	00		
δ'		9.9	9.9	3.79	13.69
		10.00	00		
ε		10.0	10.0	3.83	13.83
ζ		m.s.	m.s.	.	.
η		m.s.		.	.

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Scale m

B Series 144.

Alt Corr +.05

B 4664 2 — 1 56 K — 16 24 - 30

	sc 1	sc 2		Cw.	Magn	Diffr. Im. sc 2	h	Cw.	Magn	PC. sc 2	
	5.4					8.60 0 0					
1	5.2	5.6	5.50 1 1	3.05	8.55	8.6	8.6	0.16	8.76	9.9 – 10.5	8.85
	6.5					9.50 1 1					
2	6.3	6.3	6.40 1 1	3.03	9.43	9.4	9.6	0.21	9.71	n.s.	.
	6.5					9.75 1 0					
3	6.3	6.6	6.55 1 0	3.03	9.58	9.7	9.8	0.22	9.97		
	6.9					9.85 0 1					
4	6.7	6.9	6.90 0 0	3.05	9.95	9.8	9.9	0.24	10.09		
5		7.4		3.12	10.52	10.1?	±	0.28	10.38?		
6		7.6		3.17	10.77	n.s.	n.s.	.	.		
7		8.1		3.25	11.35						
8		8.4		3.32	11.72						
9		8.7		3.41	12.11						
		8.80 0 0									
10		8.8	8.8	3.45	12.25						
		9.10 0 0									
11		9.1	9.1	3.53	12.63						
		9.35 0 1									
12		9.4	9.3	3.61	12.96						
		9.70 0 0									
13		9.7	9.7	3.72	13.42						
		9.95 1 0									
14		9.9	10.0	3.81	13.76						
15											

Im. seems too sharp to be clear image.

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Scale m.

B Series 144

Alt Corr + .06

Q 46643 36 KS 16 29 – 24.1

Diffr. Im.

P.C.

	sc.1	sc.2		Qu.	Magn	g h			pc.2
	5.5					8.90 0 0			
1	5.3	5.5	5.50 0 0	3.05	8.55	8.9 8.9	0.18	9.08	4.
	6.9					10.15 0.1			
2	6.7	7.0	6.95 ±0	3.06	10.01	10.2 10.1	0.28	10.43	
3		7.7		3.19	10.89	ns. m.s.	.	.	
4		7.7		3.19	10.89				
5		8.6		3.39	11.99				
6		8.5		3.35	11.85				
7		8.5		3.35	11.85				
8		9.2		3.57	12.77				
		9.30 0 0							
9		9.3	9.3	3.60	12.90				
		9.30 0 0							
10		9.3	9.3	3.60	12.90				
		9.90 0 0							
10a		9.9	9.9	3.79	13.69				
		9.95 ±0							
11		9.9	10.0	3.81	13.76				
		10.00 0 0							
12		10.0	10.0	3.83	13.83				
13									
14									
15									

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Friday August 4. 1916.

Scalem. B Series 144-

B 46644 C9 14 +15°

Diffr Dm. P.C.

	sc 1	sc 2				sc 2	sc 2		sc 2
	3.8					6.55 0 1			
3	3.6				3.24	6.6	6.5	0.49	8.1 – 1.66
3a	0.46					+.+	7.60 1 1		8.8 – 1.45
4	4.4				2.75	1.5	7.7	0.22	9.2 – 1.38
	4.8				3.42	7.85 0 1			
5	4.6	4.9	485	0 1	3.21	1.8	7.9	0.21	9.4 – 1.34
	5.1								
6	4.9	5.2	5.15	1 0	3.32	+.+.	+.+.	.	9.8 – 1.33
	5.8						8.6		
6a	5.6	5.6	5.70	1 1	2.94	+.+	9.00 1 1	0.04	+. .
7	5.8	5.9	5.95	0 1	3.09	8.9	9.1	0.04	
	6.3					9.50 1 1			
8	6.1	6.2	6.25	1 0	3.28	9.6	9.4		
8a	6.4	6.5	6.60	1 1	3.08	9.45 0 1		0.03	
9	6.8	6.9	6.95	0 1	3.14	9.4	9.5	0.23	
	7.9					10.85	9.61	0.04	
12		1.3			3.27	n.s	n.s.	.	
14		1.6			3.19				
15		8.1			3.03				
16		8.21			3.40				
17		8.4			3.43				
18		8.1			3.41				
		9.35 0 1							
20		9.4	9.3		3.41				
		9.45 1 0							
21		9.5	9.4		3.61				
		9.75 0 1							
22		9.8	9.1		3.65				
23		+.	+.		.				
24		n.s.			.				
27	26								
28									

12:30.

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1916phae.proj.10770

Monday August 7, 1916.

Scale m 1:35 B 46578 C8 B Series 139.

P.C.

	sc.1	sc.2			sc.2
1	3.9 3.7			3.30	8.1 – 1.50
3	4.4 4.2			3.69	9.5 – 1.41
edge. 4	t.p.	t.p.		.	9.1 – 1.38
8	5.1 4.9	5.4	5.25 ∠ 2	3.72	f. .
9	5.8 5.6	5.7	5.75 0 ∠	3.47	m.s. .
11	6.0 5.8	5.9	5.95 0 ∠	3.56	* .
12	6.5 6.3	6.4	6.45 1 0	3.30	
14	6.7 6.5	6.9	6.70 0 0	3.27	
15	6.9 6.7	7.1	7.00 ∠ 1	3.36	
16	7.1 6.9	7.1	7.10 0 0	3.42	
18		7.5		3.18	
20a		7.6		3.62	
21		7.9		3.52	
		8.35 ∠ 0			
22		8.3	8.4	3.47	
		8.80 0 0			
25		8.8	8.8	3.46	
25a		9.40 0 0	9.4	3.27	
26		9.55 ∠ 0	9.6	3.18	
		9.65 2 1			
27		9.7	9.1	3.76	
28		f.	f.	.	
29					

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Monday August 7, 1916.

Salem. B series 139.

	B 46578 g		B 46578 h		C 8	Diffr. Inv.
	sc. 1	sc. 2	sc. 1	sc. 2		
1	t.p.				6.8	0.40
3	7.8	7.80	00		7.8	0.29
Out of focus 4	t.p.				t.p.	.
8	8.6	8.60	00		8.6	0.37
9	9.1	9.15	10		9.21	0.07
11	9.6	9.60	00		9.6	− 0.09
12	10.1	10.05	10		10.0	− 0.30
14	7				7	.
15						
16						
18						
20a						
21						
22						
25						

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Scale m

B Series 139.

Alt Corr +.08

B46579 D8 15 - 15°

D.C.

	pc.1	sc.1		Cu.	Magn	pc.2	sc.2	Cu.	Magn
1	.			.	.	8.6	–	1.49	7.51
2	.			.	.	8.8	–	1.48	7.32
3	4.0 3.8			3.96	7.96	8.1	–	1.49	7.21
4	.			.	.	8.8	–	1.48	7.32
5	3.8 3.6			4.00	7.80	8.9	–	1.48	7.42
6	4.0 3.8			3.96	7.96	9.3	–	1.45	7.85
7	4.1 3.9			3.94	8.04	9.3	–	1.45	7.85
8	3.8 3.6	B.		4.00	7.80	9.2	–	1.46	7.74
9	4.3 4.1	4.2	425 1 0	3.91	8.16	9.6	–	1.40	8.20
10	4.9 4.7	4.8	485 1 0	3.80	8.65	10.1	–	1.36	8.74
11	5.4 5.2	5.5	545 0 1	3.66	9.11				
12	5.4 5.2	5.5	545 0 1	3.66	9.11				
13	5.7 5.5	5.8	575 1 0	3.59	9.34				
14	6.8 6.6	6.7	675 0 1	3.40	10.15				
15	6.8 6.6	6.6	670 1 1	3.41	10.11				
16	6.8 6.6	6.8	680 0 0	3.40	10.20				
17		7.3		3.33	10.63				
18		7.5		3.31	10.81				
19		7.8		3.30	11.10				
20		8.1		3.29	11.39				
21		8.3		3.28	11.58				
22		8.5		3.29	11.79				
23		8.4		3.29	11.69				
24		8.6		3.29	11.89				
25		9.1		3.31	12.41				

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Monday August 7, 1916.

Scale M. B Series 139.

B 46579 D8 cont.

	sc 2	sc 2	Cu.	Magn
26	9.21		3.32	12.52
	9.30 00			
27	93	93	3.33	12.63
	9.65 01			
28	96	97	3.37	13.02
	10.00 00			
29	10.0	10.0	3.41	13.41
	10.05 01			
30	10.0	10.1	3.41	13.46
31	M.S.?		,	,

d	9.6	3.36	12.96
c	9.3	3.33	12.63

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Scale m -

B series 139.

B 46579 D8 Diffr Inv.

	g sc.1	g sc.2	h sc.1	h sc.2	Cu.	Magn
1	t.p.		6.1		.	.
2	t.p.		t.p.		.	.
3		t.p.		7.5	0.11	7.61
4		t.p.		t.	.	.
5	7.4	7.45	0.1	7.5	0.12	7.57
6		t.p.		7.8	0.10	7.90
7	7.6	7.55	0.1	7.5	0.11	7.66
8	7.7	7.65	1.0	7.6	0.10	7.75
9	7.8	7.80	0.0	7.8	0.10	7.90
10	8.5	8.45	1.0	8.4	0.05	8.50
11	8.7	poor 8.75	1.0	8.8	0.02	8.77
12	8.9	8.90	0.0	8.9	0.00	8.90
13	9.6	9.55	0.1	9.5	-0.07	9.48
14	10.0	10.00	0.0	10.0	-0.11	9.89
15	t.		t.		.	.
16						
17						
18						

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Monday August 7, 1916.

Cf Publ Brdg 27 p. 198

Scale m. B series 139. alt. sr. - .92

B 4657980 South Pole.

		sc.1	sc.2			Diffr. Inm. sc.1	h sc.2			Q.C. sc.2		
a	B.			.	.	5.35 1.0 5.3 5.4		.	.	7.5	.	.
b	B.			.	.	6.40 1.1 6.5 6.3		.	.	8.1	.	.
c	B.			.	.	tp. 7.1		.	.	8.1	- 1.49	7.21
d	3.3 3.1			4.09	7.39	tp. 7.5		0.11	7.61	9.1	- 1.46	7.64
e	3.6 3.4			4.03	7.63	. 7.5		0.11	7.61	9.3	- 1.45	7.85
e'	4.0 3.8			3.96	7.96	tp. 8.1		0.09	8.19	10.0?	- 1.36	8.64?
f	3.8 3.6	B.		4.00	7.80	8.10 00 8.1 8.1		0.09	8.19	9.9	- 1.48	8.42
g	4.1 3.9	4.1	4.10 0 0	3.94	8.04	8.45 0 1 8.4 8.5		0.05	8.50	10.0	- 1.36	8.64
h	4.7 4.5	4.9	4.80 1 1	3.80	8.60	9.25 1.0 9.3 9.2		- 0.04	9.21	n.s.	.	.
k	5.4 5.2	5.5	5.45 0 1	3.66	9.11	9.70 0 0 9.7 9.7		- 0.09	9.61			
l	5.9 5.7	5.9	5.90 0 0	3.55	9.45	f f-		.	.			
l'	6.3 6.1	6.2	6.25 1 0	3.49	9.74							
m	6.4 6.2	6.6	6.50 1 1	3.44	9.94							
n	6.8 6.6	6.9	6.85 0 1	3.40	10.25							
n'	7.1 6.9	6.9	7.00 1 1	3.36	10.36							
206K = o	7.0 6.8	7.1	7.05 0 1	3.35	10.40							
p		7.6		3.30	10.90							
q		7.7		3.30	11.00							
r		8.1		3.29	11.39							
s		8.4		3.28	11.68							
s'		8.10 00 8.1 8.1		3.29	11.39							
t		8.60 00 8.6 8.6		3.29	11.89							
u		8.75 1.0 8.7 8.8		3.30	12.05							
v		9.20 00 9.2 9.2		3.32	12.52							
x		10.00 00 10.0? 10.0		3.41	13.41?							
y		10.0? n.s.		3.41	13.41?							
z												

Pc on this plate - faint

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Scale m. B Series 139. Alt Corr + .00

B 47581 Nova Normae 15 27 = 49 8

R

Seq for R Normae

						g	h			BC.
						scz	scz			scz
a	B.	B.	.	.		6.40 1 1 6.3	6.5	.	.	8.2 .
b	4.4 4.2	4.5	445	0	1 3.88	8.33	8.55 1 0 8.5	8.6	0.05	8.60 7 .
c	4.8 4.6	4.9	485	0	1 3.80	8.65	8.60 00 8.6	8.6	0.04	8.64 m.s. .
d	5.2 5.0	6.5	535	2	1 3.69	9.04	8.95 12 9.1	8.8	0.00	8.95
e	5.9 5.7	6.1	600	1	1 3.53	9.53	9.60 00 9.6	9.6	−0.07	9.53
f	6.8 6.6	6.8	680	0	0 3.40	10.20	exp. f		.	.
g		1.5			3.31	10.81				
h		7.4			3.32	10.72				
h'		7.1			3.30	11.00				
k		8.2			3.29	11.49				
l'		8.6			3.29	11.89				
m		8.8			3.30	12.10				
n		9.10 00 9.1	9.1		3.32	12.42				
o		9.40 00 9.4	9.4		3.34	12.74				
p		9.85 01 9.8	9.9		3.39	13.24				
q		9.80 1 1 9.7	9.9		3.39	13.19				
r		7.			.	.				
Var.	4.5				3.87	8.37				

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Monday August 7, 1916.

Cofried 45, 52

Scale M. B Series 139.

B 47 581 Nova Normae. 15 27 − 498

	sc 1	sc 2		Qu.	Magn	Diffr. Inn. q	h	Qu.	Magn	P.C. sc 2		
a	B			.	.	6.1 tip.		.	.	8.1	.	.
b	3.7 9.5			4.01	7.71	765 1.0 11	7.6	0.11	7.76	8.9	−1.48	7.42
c	4.9 3.8	4.1	4.05 0 1	3.94	7.99	8.1	800 1.1 7.9	0.09	8.09	9.5	−1.41	8.09
d	5.0 4.8	5.1	5.05 0 1	3.73	8.78	8.4	850 1.1 8.6	0.05	8.55			
e	5.3 5.1	5.3	5.30 0 0	3.70	9.00	sup. 8.9		0.00	8.90			
e'	5.7 5.5	5.8	5.75 1.0	3.59	9.34	9.30 1.1 9.2	9.4	−0.04	9.26			
f	6.1 5.9	6.4	6.25 1.2	3.49	9.74	980 0.0 9.8	9.8	−0.09	9.71			
h	6.7 6.5	6.8	6.75 1.0	3.40	10.15	?	?	.	.			
k		7.4		3.32	10.72							
k'		7.8		3.30	11.10							
l		8.1		3.29	11.39							
m		8.50 0 0 8.5	8.5	3.29	11.79							
n		9.20 0 0 9.2	9.2	3.32	12.52							
o		9.35 0 1 9.4	9.3	3.33	12.68							
q		?	.	.	.							
p		10.05 0 1 10.0	10.1	3.41	13.46							
r		?	.	.	.							

Very hot during measures.

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Scale m. B Series 139. alt Conc + 07

B 46582 U Librae. 15 34-209

Diffr. Inm.

		sc.1	sc.2		Cu.	Magn.	k			P.C.
U Librae	a	5.1 4.9			373	8.83	8.60 00 8.6 8.6	0.04	8.64	1.
	b	5.8 5.6	5.1	5.75 0 1	359	9.34	9.20 00 9.2 9.2	−0.03	9.17	m.s.
ao' =	b'	6.0 5.8	6.3	6.15 2 1	350	9.65	9.40 1 1 9.3 9.5	−0.05	9.35	
	c	6.7 6.5	6.6	6.65 1 0	342	10.07	m.s. m.s.	.	.	
	d	6.7 6.5	6.6 ~~6.5~~	6.65 1 0	342	10.07				
	d'	6.9 6.7	6.5	6.70 2 2	341	10.11				
	d^2		7.6		330	10.90				
	g		7.8		330	11.10				
	f		8.00 1 1 7.9 8.1		329	11.29				
	e		8.15 0 1 8.2 8.1		329	11.44				
	l		8.65 1 9 8.7 8.6		329	11.94				
	h		9.50 0 0 9.5 9.5		334	12.84				
Fainter than 10th image.	k		±		.	.				
	m		±		.	.				
	Var.		7.6		330	10.90				

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Scale M

B 46582

B Series 139.

α Librae (cont. from prec. page)

		sc.1	sc.2		Cw	Magn	sc.2	sc.?		sc.2
	c°	4.5					9 h			B.C.
	α	4.3			3.86	8.36	t.h.	t.h.	. .	q.3 − 1.45 7.85
	a°	5.0 4.8	5.1	5.05	0 1 3.73	8.78	8.40 8.3	1 1 8.5	0.07 8.47	t. . .
b.	a°1	6.1 5.9	6.2	6.15	1 0 3.50	9.65	9.35 9.3	1 9 9.4	−.05 9.30	
	b°	6.8 6.6	6.9	6.85	0 1 3.40	10.25	m.s.	m.s.	. .	
	d°	6.8 6.6	6.1	6.75	0 1 3.40	10.15				
	d°1		7.6		3.30	10.90				
	e°		7.6		3.30	10.90				
	f°		7.6		3.30	10.90				
	g°		7.9		3.30	11.20				
	h°		8.4		3.29	11.69				
	k°		8.5	8.55	1 0 8.6 3.29	11.84				
	k°1		8.9	8.90	0 0 8.9 3.30	12.20				
	l°		9.6	9.65	0 1 9.7 3.38	13.03				
	m°		9.3	9.40	1 1 9.5 3.34	12.74				
	n°		10.0	10.00	0 0 10.0 3.41	13.41				
	Var.?		8.7		3.29	11.99				

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Monday August 7, 1916.

Scale M.

B Series 139.

B 46589 c9.

	sc.1	sc.2	Diff.	sc.1 sc.2
3	3.4		.	8.6 – 1.56
3a	3.4		.	8.8 – 1.45
4	3.2		4.42	9.2 – 1.38
	3.8			
5	3.6		4.26	9.5 – 1.44
	4.4			
6	4.2		4.07	9.9 – 1.43
6a	4.8	5.0 5.00 0 0	3.64	9.9 – 1.44
	4.8	5.3 5.15 2	1.389	m.s.? .
	5.9			
8	5.7	5.9 5.90 0 0	3.63	
8a	5.7	6.1 6.00 1	1.368	
9	6.5	6.6 6.65 1 0	3.44	
12		7.3	3.27	
14		7.6	3.19	
15		8.1	3.03	
16		8.6	3.00	
17		8.1	3.13	
18		9.20 1 1 9.1 9.3	3.21	
20		9.56 1 0 9.5 9.6	3.21	
21		9.70 0 0 9.7 9.7	3.36	
22		10.00 0 0 10.0 10.0	3.40	
23		Scr.	.	
24		m.s.	.	
25				
26				
27				

B 46583 (c8) fwor, so B 46589 measured.
In order
H.S.L.

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Monday August 7, 1916.

Scale m

B Series 139.

	B 46589		C 9	Diff. Dm.
	g		h	
	sc. 1	sc. 2	sc. 1	sc. 2	
3	7.2	7.20 00	7.21	− 0.16
3a	7.6		4 fr.	− 0.25
4	7.8	7.85 0.1	7.9	− 0.03
5	8.1	8.10 0.0	8.1	− 0.04
6	8.4	8.40 0.0	8.4	− 0.07
6a	fr.		8.6	+ 0.04
7	9.4	9.40 0.0	9.4	− 0.36
8	9.8	9.75 0.1	9.7	− 0.17
8a	9.8	9.75 0.1	9.7	− 0.07
9	10.0	10.05 0.1	10.1	+ 0.04
12	n.s.		n.s.	

3.42

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Wednesday August 8. 1916.

Scale m. Series 162.

1/ B46835. C10. 19 00+15.0

P.C.

	pr1	pr2		Diff.	pr2
1	2.6?	2.8		4.04	8.2 — 1.36
2	2.8?	3.0		4.41	8.8 — 1.39
3	B.			.	8.7 — 1.36
4	B			.	9.2 — 1.36
6	B.			.	10.1 — 1.60
7	3.6	3.8	B .	4.49	± .
8	4.6	4.8	4.9 4.85 0	1.425	
9	5.1	5.3	5.21 5.25 1 0	4.15	∓
10	5.3	5.5	5.6 5.55 1 0	4.14	
11	6.2	6.4	6.4 6.40 0 0	3.64	
12	6.5	6.7	6.7 6.70 0 0	3.79	
13			7.3	3.43	
15			7.6	3.57	
16			8.15 1 0 8.1 8.2	3.37	
17			8.65 0 1 8.6 8.7	3.25	
18			nearly .	,	
19			9.55 1 0 9.5 9.6	3.19	
20			10.00 0 0 10.0 10.0	2.87	
21			n.s. n.s.	,	
22					
24					
25					
b			9.1	3.41	

Images on this plate are elongated, and difficult to compare into scale.

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Wednesday August 8. 1916.

Scale m. Series 162.

B 46835 C10 cont. Diffr. Inv.

	9		h		
	sc.1	sc.2	sc.1	sc.2	
1	5.7 5.5	5.70 00	5.7 5.5		1.14
2	6.3 6.1	6.50 22	6.7 6.5		0.91
3	6.4 6.2	6.35 0 1	6.3 6.1		0.99
4	.			t.f.	.
6	.			t.f.	.
7		8.1 from	8.10 00	8.1	0.19
8		9.1	9.00 1 1	8.9	0.10
9		9.5	9.65 1 2	9.8	−0.25
10		sup.		10.0	−0.31
11		f.		f.	.
12					
13					
14					
15					

Images large. Do not compare well with scale.

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Wednesday August 8, 1916.

Copied B 34: 123

Salem. B Series 162. Alt Corr +.07

B 46 836 45 KS 18 46-79

	sc.1	sc.2		Cu	Magn	Diff Im. sc.2				P.C. sc.2		
1				.	.	t.p.	t.p. (Elong)			8.4	~~4.52~~	.
± 2	B.			.	.	6.3	6.2	0.88	7.13	8.1	−1.32	6.78
3	B.			.	.	7.5	7.5	0.50	8.00	9.1	−1.36	7.74
4	4.1			4.37	8.64	8.2	8.1	0.31	8.46	9.9	−1.48	8.42
5	4.5	t.p.		4.26	8.96	8.6	8.6	0.16	8.76	m.s.	.	.
6	5.1	5.3	5.30	0 0 4.09	9.39	9.3	t.p.	−0.03	9.27			
* 7	5.4	5.1	5.65	0 1 4.02	9.67	9.5	9.6	−0.09	9.46			
8	5.8	6.2	6.10	1 3.90	10.00	.	.	(occulted?).				
9	6.1	6.5 hour	6.40	1 3.80	10.20	t.p.	t.p.	.	.			
10		7.4		3.54	10.94							
11		7.4		3.54	10.94							
12		7.6		3.50	11.10							
13		7.8		3.44	11.24							
14		8.1		3.39	11.49							
15		8.4		3.35	11.75							
± 2a	B.			.	.					9.1	−1.44	8.26
* 7a	6.3	6.5	6.50	0 0 3.76	10.26							
16	6.8	7.3	7.15	2 1 3.59	10.74							
16		8.6		3.32	11.92							
17		9.1		3.26	12.36							

45 KS Seq. = seq for Rich Region Sect Sok.
Images very poor. Bright stars have trails and faint stars are not round.

18	9.2	3.24	12.44	
19	9.8	3.19	12.99	
20	9.9	,	.	

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Wednesday August 8, 1916 -

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Scale M -

B series 162.

Alt Corr +.06

B 46837 ~~Nova + 19 Sagittarii 18 18 - 3.8.~~ 46 K: 18 48-38

Diffr Im. PC.

		Sc.1	Sc.2		Cw.	Magn	Sc.2	Sc.2			Rez
		43					845	10			
a	1	4.1			434	8.64	8.5	8.4	0.21	8.66	10.0? very ft -1.50 8.50?
		44					900	1.1			
f	2	4.2	4.3	435 0 1	4.33	8.68	8.9	9.1	0.04	9.04	f. .
		63									
c	3	6.1	6.4	6.35 1 0	3.81	10.16	f	f.	.	.	
		7.1									
	4	6.9	7.1	7.10 0 0	360	10.70					
	5		7.8		345	11.25					
	6		7.9		342	11.32					
	7		8.4		335	11.75					
	8		8.6	8.90 0 0	332	11.92					
	9		8.9	8.9	329	12.19					
				9.25 0 1							
	10		9.2	9.3	324	12.49					
				9.95 1 0							
	11		9.9	10.0	.	~~10.~~ .					
				9.95 1 0							
	12		9.9	10.0	.	.					
	13										
	14										

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Wednesday August 8. 1916.

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Scale M-

B Series 162.

Alt Corr +.08

B 46833 18 Nova + 51 Sagitarii 18 57-13.3

Seq for Nova:

		pc1	pc2		Diff Im.			pc		
a	offpl.									
b	+p.									
c	B.				4.8 50	4.8 50		6.6		
d	offpl.									
e	3.1 2.9		4.23	7.33	+p.	6.1	0.92	7.02	8.1	−1.32	6.78
f	3.8 3.6		4.38	8.18	7.10 00 7.1	7.1	0.61 ~~0.98~~	7.71	8.1	−1.33	7.37
g	4.0 3.8	B.	4.39	8.39	7.15 01 7.2	7.1	0.60 0.90	7.75	9.0	−1.36	7.64
h	5.2 5.0	5.5	5.352	14.11	8.65 10 8.7	8.6	0.13	8.78	f.	.	.
k	6.0 5.8	6.0	6.00 00	3.92	9.92	+p.	9.4	−0.06	9.34		
l	6.4 6.2	6.5	6.45 01	3.78	10.23	10.00 00 10.0	10.0	−0.19	9.81		
m	6.6 6.4	6.6	6.60 00	3.73	10.33						
n		7.5		3.51	11.01						
o		8.0		3.40	11.40						
p		8.4	8.5	3.34	11.79	8.45 01					
q		8.6	8.6	3.32	11.92	8.60 00					
r		9.4	9.3	3.24	12.59	9.35 01					
s		9.8	9.8	3.19	12.99	9.80 00					
t		f.	f.	.	.						
u		f.		,	,						

Nova n.s.

Images on this plate much better than those on C. Region.

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Wednesday August 9, 1916.

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Scale m. B Series 162 Alt Cor +08

B 46838 SY Sagittarii 18 57 -13.3

P.C.

Seq for SY	sc 1	sc 2	sc 2	Cu.	Magn	q	h			sc 2
		5.8				9.25	10			
a°	5.6			3.98	9.78	9.3	9.2	- 0.01	9.24	m.s.
		5.8				9.35	10			
b°	5.6	5.8	580 0 0	3.98	9.78	9.3	9.4	- 0.05	9.30	
		5.9				9.40	0 0			
c°	5.7	5.8	585 1 0	3.97	9.77	9.4	9.4	- 0.06	9.34	
		6.3				9.55	1 0			
c°1	6.1	6.1	620 1 1	3.85	10.05	9.5	9.6	- 0.09	9.46	
		6.5				f	f.	,	,	
d°	6.3	6.6	655 1 0	3.74	10.29					
e°	7.0	7.4	~~720 2 2~~							
f°	6.8	7.21	710 1 1	3.61	10.71					
g°		7.6		3.50	11.10					
h°		7.7		3.47	11.17					
h°1		8.0		3.40	11.40					
k°		8.4		3.34	11.74					
l°		8.21		3.38	11.58					
		8.45	1 0							
m°		8.5	8.4	3.34	11.79					
		8.65	1 0							
n°		8.7	8.6	3.31	11.96					
		9.05	1 0							
o°		9.1	9.0	3.27	12.32					
		9.30	0 0							
p°		9.3	9.3	3.24	12.54					
		9.90	1 1							
r°		9.8	10p	.	.					

q dbl?

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Scale m. B Series 162 Alt Corr +.01

B 46839 88 20 −45°

	pc.1	pc.2		Cu.		q	h			pc.2		
						pc.2	pc.2					
						7.00 1 1						
1	.			.	.	6.9	7.1	0.64	7.64	8.9	−1.36	7.54
						7.00 1 1						
2	.			.	.	7.1	6.9	0.64	7.64	8.6	−1.34	7.26
						7.00 1 1						
3	.			.	.	6.9	7.1	0.64	7.64	~~9.2~~ 8.6	−1.34	7.26
						6.60 3 3				8 2		6.88
4	Q			.	.	6.3	6.9	0.77	7.37	~~8.2~~	−1.38	~~7.82~~
	3.7					7.45 1 0						
5	3.5			4.36	8.06	7.5	7.4	0.51	7.96	sup.	.	.
6	B.			.	.	8.1	+f.	0.32	8.42	10.0	−1.50	8.50
	3.3					7.10 0 0		61				
7	3.1			4.30	7.60	7.1	7.1	0.~~42~~	7.71	8.9	−1.36	7.54
						7.85 0 1						
8	B.			.	.	7.8	7.9	0.40	8.25	9.5	−1.41	8.09
	3.7					7.75 1 2						
9	3.5			4.36	8.06	7.9	7.6	0.42	8.17	9.4	−1.40	8.00
	4.7			4.39}	8.59					10.0		
dbl.	5.1 4.0 3.5			4.00}	9.70	f.	.	.	.	f.	−1.50	8.50
	4.1					8.40 0 0						
11	3.9			4.37	8.47	8.4	8.4	0.22	8.62	9.8	−1.47	8.33
	4.3					8.60 0 0						
12	4.1			4.34	8.64	8.6	8.6	0.15	8.75	f.	.	.
	4.1					8.70 0 0						
13	3.9	B.		4.37	8.47	8.1	8.1	0.14	8.84	~~9.8~~ 10.0	−1.50	8.50
	5.0					9.25 1 2						
14	4.8	5.1	5.05 0 1	4.19	9.24	9.1	9.4	−0.02	9.23			
	5.3					9.55 1 0						
15	5.1	5.4	5.35 1 0	4.11	9.46	9.5	9.6	−0.09	9.46			
	4.9					9.30 0 0						
16	4.1	5.1	5.00 1 1	4.19	9.19	9.3	9.3	−0.04	9.26			
	5.5					10.00 0 0						
17	5.3	5.3	5.40 1 1	4.10	9.50	10.0	10.0	−0.19	9.81			
	5.7						f.	.	.			
18	5.5	5.7	5.70 0 0	4.01	9.71							
	6.6											
19	6.4	6.4	6.50 1 1	3.75	10.25							
	6.7											
20	6.5	6.4	6.55 1 2	3.74	10.29							
	6.8											
21	6.6	6.9	6.85 0 1	3.66	10.51							
22		7.1		3.60	10.70							
23		sup.		.	.							
24		7.9		3.43	11.33							
25		8.3		3.37	11.67							
26		8.5		3.34	11.84							

Examination of plate shows that a mistake of a unit was made in record for star 4 p.c.

W. C. L. October 7, 1916

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Wednesday August 8, 1916.

Scale m. B Series 162.

B 46839 E 8 cont.

	pc.	secs	Cu.	
27		8.8	3.30 3.47	12.10
28		88	3.30 3.47	12.10
29		9.2	3.25	12.45
30		9.25 01 9.2 9.3	3.24	12.49
31		9.30 00 9.3 9.3	3.24	12.54
32		9.50 00 9.5 9.5	3.22	12.72
33		9.80 00 9.8 9.8	3.20	13.00
34		f. f.	,	,
35		m.s.	,	,
36		m.s.	,	,

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Wednesday August 8, 1916

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Scalem. B Series 162. Alt Corr −.14

B 46840 Orbit 20h −64.5

	SC.1	SC.2				SC.2			B.C. SC.2	
			Qu.	Magn.	q h	Qu.	Magn.			
1	B.				6.40 1 L 6.5 6.3	0.82	7.22		8.5 − 1.33	7.17
2	4.0 3.8		439	8.39	19 + f. 8.25 0 1	0.39	8.29		9.1 − 1.45	8.35
3	4.3 4.1	4.3 4.30 0 0	4.34	8.64	8.2 8.3	0.27	8.52		9.9 − 1.48	8.42
4	4.7 4.5	5.1 4.90 2 2	4.21	9.11	8.70 0 0 8.1 8.1	0.13	8.83		m.s. .	,
5	5.1 4.9	5.3 5.20 L 1	4.15	9.35	9.25 1 0 9.3 9.2	−0.02	9.23			
6	5.6 5.4	5.6 5.60 0 0	4.03	9.63	9.55 1 0 9.5 9.6	−0.09	9.46			
7	6.3 6.1	6.3 6.30 0 0	3.82	10.12	f f	,	.			
8	6.3 6.1	6.5 6.40 L 1	3.79	10.19						
9	6.5 6.3	6.6 6.55 L 0	3.74	10.29						
10		7.3		3.55	10.85					
11		7.6		3.50	11.10					
12		7.8		3.44	11.24					
13		8.1		3.39	11.49					
14		8.4		3.35	11.75					
15		8.60 0 0 8.6 8.6		3.32	11.92					
16		9.25 0 1 9.2 9.3		3.24	12.49					
17		9.45 0 1 9.4 9.5		3.22	12.67					
18		9.80 0 0 9.8 9.8		3.19	12.99					
19		f. f.	,	,						
20		f	,	,						

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Wednesday August 8. 1916.

Salem. B Series 162

B 46841 C 10 19 +15°

	sc 1	sc 2	sc 2	Diff	Diff Im. sc 2	sc 2		P.C. sc 2
	2.7				6.25 01			
1	2.5			4.14	6.2	6.3	0.59	8.21 – 1.36
2	3.2				7.00 1 1			
	3.0			4.21	6.9	7.1	0.41	8.1 – 1.29
3	B.			,	6.70 00			
					6.7	6.7	0.64	8.6 – 1.26
4	B.			,	7.35 1 0			
					1.3	1.4	0.49	9.1 – 1.26
	3.9							
dbl?	3.1			4.60	8.2	+f.	0.30	*9.9 – 1.40
	3.9				8.00 1 1			
7	3.1	B		4.39	1.9	8.1	0.29	9.5 – 1.21
	4.9				9.10 00			
8	4.1	4.9	4.90 0 0	4.20	9.1	9.1	0.00	f. ,
	5.2				9.40 00			
9	5.0	5.4	5.30 1 1	4.10	9.4	9.4	0.00	f ,
	5.6				9.60 00			
10	5.4	5.1	5.65 0 1	4.04	9.6	9.6	0.09	
	6.3							
11	6.1	6.3	6.30 00	3.74	f	f.	,	
	6.8							
12	6.6	6.8	6.80 00	3.69				
13		7.2		3.53				
15		7.1		3.47				
16		8.1		3.42				
17		8.5		3.40				
18		nearly sup.		,				
19		9.6		3.14				
20		9.1		3.17				
21		f.		,				
22								
24								

3:12

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Friday August 11, 1916.

Scale M-

B series 139. (2nd half.)

9:00 B 46578 . C8. 15 +15°.

~~Diffn Lens~~. P.C.

	sc.1	sc.2			sc.2
	3.9				
1	3.7			3.30	8.6 − 1.40
	4.8				
3	4.6			3.29	9.3 − 1.21
Edge. 4	.		.	.	8.8 − 1.08
6a	4.8 4.6	5.1	4.95	2 1 3.84	9.1 − 0.91
8	5.3 5.1	5.5	5.40	1 1 3.57	m.s. ,
	5.7				
9	5.5	5.6	5.65	1 0 3.57	
	6.1				
11	5.9	6.0	6.05	1 0 3.46	
	6.4				
12	6.2	6.5	6.45	0 1 3.30	
	6.6				
14	6.4	6.7	6.65	0 1 3.32	
	7.1				
15	6.9	7.1	7.10	0 0 3.26	
16		7.2		3.32	
18		7.5		3.18	
21		8.1		3.32	
22		8.4		3.42	
		8.70	0 0		
25		8.7	8.7	3.56	
		9.45	0 1		
26		9.4	9.5	3.28	
		9.55	1 0		
27		9.5	9.56	3.46	
Only Hδ γ seen. 28		?	?	,	
29					
		9.30	0 0		
25a		9.3	9.3	3.34	
		9.90	0 0		
27a		9.9	9.9	3.48	

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Friday August 11. 1916.

Lasle M. B Series 139.

B 4651/8 C8 15+15 Diffr'lm.

	g		h	
	sc.1 sc.2		sc.1 sc.2	
1	t.p.	6.1		0.50
3	t.p.		1.9	0.19
4	t.p.		t.p.	.
8	8.1	8.65 ± 0	8.6	0.32
9	8.1		poor	0.52
11	9.3	9.35 ± 0	9.4	0.16
12	9.8	9.75 ± 0	9.1	0.00
14	?		10.0	−0.03
15				
16				
18				
21				
22				
25				
26				
6a	t.p.		t.p.	

"g" images large + not comparable with scale.

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Scale m. B Series 139. Alt Corr +.07

B 46584 z } Scorpii 16 2-21.4

Seq. for Z Scorp.	Sc.1	Sc.2	Sc.3	Cu.	Magn.	g h	Cu.		Sc.2		
						Diff. Im					
a	3.2 3.0			4.50	7.70	7.55 1 0 7.5 7.6	0.21	7.76	8.9	−1.32	7.58
b	3.7 3.1	B.		4.24	8.14	8.40 0 0 8.4 8.4	0.15	8.55	9.9	−0.98	8.92
c	5.7 5.5	5.6	5.65 1 0	3.60	9.25	9.20 0 0 9.2 9.2	0.11	9.31	m.s.	.	.
d	5.8 5.6	5.9	5.85 0 1	3.53	9.38	nearly sup. 9.6	0.09	9.69			
e	5.9 5.7	6.21	6.05 1 2	3.49	9.54	9.65 0 1 9.6 9.7	0.09	9.74			
f	6.7 6.5	6.3	6.50 2 2	3.38	9.88	f f.	.	.			
f'	6.9 6.7	7.1	7.00 1 1	3.30	10.30						
f''		7.8		3.26	11.06						
h		7.6		3.26	10.86						
g		8.3		3.29	11.59						
k		8.6		3.32	11.92						
l		8.35 0 1 8.4 8.3		3.30	11.65						
l'		8.80 0 0 8.8 8.8		3.34	12.14						
m		9.35 1 0 9.3 9.4		3.42	12.77						
n		9.80 1 1 9.1 9.9		3.51	13.31						
p		9.95 0 1 10.0 9.9		3.54	13.49						
o											
z Scorp.		8.30 0 0 8.3 8.3		3.30	11.60						

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Friday August 11, 1916.

Cofried 45:65

Scale m. B Series 139.

B 46584 X Scop. 16 02 -21.4

Seq. for X Scop.	sc.1	sc.2		Cu.		Diffr. Inn. q	h		P.C. sc.2	
a°	4.1 3.9			4.16	8.26	8.55 8.5	1.0 8.6	0.14	69 8.41	9.8 – 10.1 8.79
a°1	4.9 4.1	5.1	5.00	1.3	8.84	negligible surf.	9.1	0.11	9.21 8.99	m.s.
b°	5.8 5.6	5.8	5.80	0.0	3.54	9.34	surf. 9.7	0.09	9.79	
c°	6.5 6.3	6.4	6.45	1.0	3.39	9.84	f 10.0	0.06	10.06	
e°		7.5			3.26	10.76				
d°		8.1			3.29	11.39				
d°1		8.4			3.30	11.70				
f°		8.6			3.32	11.92				
g°		8.60 8.6		0.0	3.32	11.92				
k°		9.20 9.3		0.0	3.42	12.72				
h°		9.60 9.6		0.0	3.49	13.09				
m°		9.75 9.8		1.0	3.51	13.26				
l°		9.95 10.0		1.0	3.54	13.49				
n°		4			.	.				

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Indem

B Series 139 - Alt Corr +07

B 46585 ρ Oph. 16 10-223

	sc.1	sc.2			Cir.	Magn	q	h	Diffr Im.		P.C.
							8.25	1.0			sc.2
1	3.9 3.81	1			424	8.14	8.3	8.2	0.16	8.41	9.3 −1.21 8.09
							8.70	0.0			
2	4.2 4.0	4.4	4.30	1	4.10	8.30	8.1	8.1	0.14	8.84	f. , .
							9.10	0.0			
3	4.8 4.6	5.1	4.952	1	3.84	8.79	9.1	9.1	0.11	9.21	m. , .
4	6.3 6.1	6.3	6.30	0 0	341	9.71	10.1	7.	0.05	10.15	
5	6.7 6.5	6.5	6.60	1 1	3.33	9.93	m.s.	m.s.	,	.	
6	7.1 6.9	7.1	7.10	0 0	329	10.39					
7		7.5			3.26	10.76					
8		7.6			3.25	10.85					
9		7.9			3.26	11.16					
10		8.2			3.29	11.49					
11		8.6			3.32	11.92					
12		8.8	8.75	0 1	334	12.09					
			8.90	0 0							
13		8.9	8.9		3.36	12.26					
			9.20	0 0							
14		9.2	9.2		341	12.61					
			9.40	0 0							
15		9.4	9.4		344	12.74					
			9.80	1 1							
16		9.9	9.9		3.51	13.31					
SOph.		9.6			349	13.09					

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Scale M B series 139. Alt Cor +08

B 46 58 6 1 + 2 Ophiuchi 16 29-16.5

Diffr'lm. PC.

	sc.1	sc.7		Cu.	Magn	q	h.			sc.7		
S Ophi							sc.2					
a	3.9 3.7			424	8.14	+f.	8.9 +f.	.	.	9.2	− 1.23	7.97
b	5.0 4.8	5.1	5.05 0 1	381	8.86	+f.	8.1	0.18	8.28	9.9?	− 0.98	8.92?
						9.25	0 1					
b'	5.8 5.6	5.7	5.75 0 1	356	9.31	9.2	9.3	0.11	9.36			
b²	6.7 6.5	6.7	6.70 0 0	331	10.01	+	+	'	'			
c		1.5		326	10.76							
d		8.1		328	11.38							
e		1.9		326	11.16							
f		8.3		330	11.60							
g		8.6		332	11.92							
h		8.9		336	12.26							
		9.40	0 0									
k		9.4	9.4	344	12.84							
		9.25	1 0									
m		9.3	9.21	341	12.66							
		9.25	1 0									
l		9.3	9.21	341	12.66							
		9.85	1 0									
p		9.9	9.8	352	13.37							
		10.00	0 0									
n		10.0	10.0	356	13.56							

S Oph. Var. 1.5 326 10.76

See also following page.

"b' common to both sequences.

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Scale m. B Series 139. Alt Cor +08

B 46586 cont 1 Ophiuchi 16 29 -16.5

		sc.1	sc.2			Cw.		Diff. Im. sc.2			P.C. sc.2	
Seq for 1 Oph.								g	t			
	a	3.6 3.4				4.35	7.95	tf.	7.1	0.25	7.35	8.6 −1.40 7.20
	b	5.1 4.9	5.3	5.20	⊥ 1	3.75	8.95	th.	8.4	0.15	8.55	100? ft
	b'	5.7 5.5	5.6	5.65	1 0	3.60	9.25	9.25	9.3 1.0	9.2	0.11	9.36
	b²	6.9 6.7	6.9	6.90	0 0	3.30	10.20	m.s.	m.s.	,	.	
	c		7.4			3.26	10.66					
	d		7.5			3.26	10.76					
	e		8.1			3.28	11.38					
	g		8.60 8.6		0 0	3.32	11.92					
	f		8.75 8.8		0 1	3.34	12.09					
	k		9.25 9.3		1 0	3.41	12.66					
	h		9.85 9.9		1 0	3.52	13.37					
	l		9.95 9.9		⊥ 0	3.54	13.49					
1 Oph.			8.1			3.28	11.38					

See also preceding page.

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Salem B Series 139. Alt. 452. +.02

B 4650 87 E 7 17 20-45°

	sc.1	sc.2			P.C. sc.	
1	B.		.		8.1 .	.
2	B.		.		8.4 −1.43	6.97
3	B.		.		8.5 −1.41	7.09
4	B.		.		8.5 −1.41	7.09
5	3.8 3.6		4.27	8.07	t.f. .	.
6	4.0 3.8		4.20	8.20	9.2 −1.23	7.97
7	t.f.		.	.	9.2 −1.23	7.97
8	t.f.		.	.	9.5 −1.14	8.36
9	4.0 3.8	B	4.20	8.20	9.4 −1.17	8.23
10	5.0 4.8	4.9	4.95 0 1.385	8.80	f.? .	.
11	4.8 4.6	4.6	4.70 1 1.394	8.64	9.9 −0.98	8.92
12	4.8 4.6	4.9	4.85 0 1.390	8.75	10.0? very faint.	
13	5.1 4.9	5.2	5.15 1 1.379	8.94	m.s. .	.
14	5.3 5.1	5.5	5.40 1 1 3.68	9.08		
15	5.3 5.1	5.4	5.35 1 0 3.70	9.05		
16	5.1 4.9	5.3	5.20 1 1 3.75	8.95		
17	5.5 5.3	5.6	5.55 1 0 3.63	9.18		
18	6.1 5.9	6.1	6.10 0 0 3.46	9.56		
19	6.1 5.9	6.1	6.10 0 0 3.46	9.56		
20	6.3 6.1	6.3	6.30 0 0 3.41	9.71		
21	6.8 6.6	6.8	6.80 0 0 3.31	10.11		
22	6.9 6.7	6.9	6.90 0 0 3.30	10.20		
23		7.1		3.29	10.39	
24		7.2		3.28	10.48	
25		7.4		3.26	10.66	
26		7.7		3.25	10.95	

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Scale m-

B Series 139- Alt. +.02

B 46587 E1 cont.

1	Dez		
24	7.9	3.26	11.16
28	7.9	3.26	11.16
29	7.9	3.26	11.16
30	8.4	3.30	11.70
31	8.4	3.30	11.70
32	8.6	3.32	11.92
33	8.7	3.33	12.03
34	9.05 2 1 / 9.2 8.9	3.39	12.44
35	9.35 0 1 / 9.4 9.3	3.43	12.78
36	9.90 1 1 / 10.0 9.8	3.53	13.43
37	10.05 # 1 0 / 10.1? 10.0	3.56	13.61
38	m.s.	"	"
39			

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Scale M. B series 139 - Alt. cor. +.02

B 46587 E 7 Diff. Images 17 20 - 45

	g sec 1	g sec 2	h sec 1	h sec 2	Cu.	Magn
1	6.3	6.3000	6.3		0.34	6.64
2	·		6.1		0.30	7.00
3	·		t.p.		·	·
4	·			1.1	0.25	7.35
5	7.3	7.45	1.2	7.6	0.21	7.66
6	7.1	7.65	1.0	7.6	0.20	7.85
7	7.5			t.p.	0.21	7.71
8	t.p.			8+7.9	0.19	8.09
9	nearly out			7.6	0.20	8.00
10	8.5	8.55	1.0	8.6	0.14	8.69
11	t.p.			8.5	0.15	8.65
12	8.6	8.50	1.1	8.4	0.15	8.65
13	8.5	8.55	1.0	8.6	0.14	8.69
14	8.9	9.00	1.1	9.1	0.12	9.12
15	t.p.			8.9	0.12	9.02
16	8.9	8.90	0.0	8.9	0.12	9.02
17	9.1	9.15	1.0	9.2	0.11	9.26
18	9.6			t.p.	0.09	9.69
19	9.8	9.8000		9.8	0.09	9.89
20	10.0	9.8022		9.6	0.09	9.89
21	f			7	·	·
22				n.s.	·	·
23						
24						
25						

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Salem.

B Series 139.

Att Corr +.08

B 46588 Dy. 17 -15°

P.C.

	Rc.1	Rc2			Rc2		
1	B.		.		8.1	-1.38	7.32
2	B		.		9.0	-1.30	7.70
3	3.5 3.3		4.39	7.89	9.1	-1.28	7.82
4	B.		.	.	9.1	-1.28	7.82
5	B.		.	.	9.4	-1.17	8.23
6	B.		.	.	9.1	-1.14	8.56
7	4.8 4.6	4.75 0.1 4.1	3.92	8.67	10.0	.	.
8	t.p.	.	.	.	9.1	-0.98	8.72
9	edge.	.	.	.	9.8	-1.00	8.80
10	5.9 5.1	5.1	5.80 1 1	3.54	9.34	n.s.	.
11	5.8 5.6	5.6	5.70 1 1	3.58	9.28		
12	6.1 5.9	5.9	6.00 1 1	3.50	9.50		
13	6.1 5.9	5.9	6.00 1 1	3.50	9.50		
14	6.8 6.6	6.8	6.80 0 0	3.31	10.11		
15	6.7 6.5	6.1	6.70 0 0	3.32	10.02		
16	6.9 6.7	7.1	7.00 1 1	3.30	10.30		
17	6.9 6.8	7.0	6.98 1 0	3.30	10.25		
18		7.5		3.26	10.76		
19		7.5		3.26	10.76		
20		7.1		3.25	10.95		
21		7.9		3.26	11.16		
22		7.9		3.26	11.16		
23		8.4		3.30	11.70		
24		8.3		3.30	11.60		
25		8.6		3.32	11.92		
26		8.1		3.33	12.03		

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Salem. B Series 139.

B 46588 D9 17 - 15 cont.

27	9.5 (9.45 10)	9.4	3.45	12.90
28	9.4 (9.40 00)	9.4	3.44	12.84
29	9.1 (9.70 00)	9.1	3.50	13.20
30	9.9 (9.85 10)	9.8	3.52	13.37
31	m.s.	m.s.	,	,
32	m.s.		,	,

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Declens.

B Series 139.

B 46588 Dq Diffr. Im.

	q sec.1	q sec.2	h sec.1	h sec.2	Cu.	
1		t.p.	1.4?	0.21 ~~3.27~~	7.61?	
2		1.3	t.p.	0.22 ~~3.28~~	7.52	
3		t.p.	1.5	0.21	7.71	
4		1.6	7.60 00	1.6	0.20	7.80
5		1.7	7.70 00	1.7	0.20	7.90
6		8.1	8.20 1	8.3	0.16	8.36
7		8.5	8.45 1 0	8.4	0.14	8.59
8		8.2		t.p.	0.16	8.36
9		t.p.		t.p.	.	.
10		9.2	9.25 0 1	9.3	0.11	9.36
11		9.2	9.25 0 1	9.3	0.11	9.36
12		9.3	9.30 00	9.3	0.10	9.40
13		t.		10.0	0.06	10.06
14		t		9.9	0.08	9.98
15		t.		t.	.	
16						
17						
18						
19						
20						

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Friday August 11, 1916.

Scale M

B Series 139.

B 46589 c9 17 +15°

	sc.1	sc.2	Diff	Diff Im. q	Diff Im. h		P.C. sc.2	
3	B.		.	6.9	6.9	0.14	8.5	−1.46
4	2.9		4.72	t.f.	1.9	−0.08	9.1	−1.28
5	3.4	B.	4.46	1.2	1.3	0.81	9.5	−1.44
6	4.4	4.5	4.55 01 3.92	8.4	8.4	0.07	9.7	−1.23
7	4.9	5.1	5.10 00 3.94	9.1	9.2	−0.36	n.s.	.
8	5.1	5.8	5.85 10 3.68	9.4	9.4	0.13		
9	6.4	6.8	6.70 −1 3.39	100?	t.	0.09		
12		1.4	3.17					
14		1.6	3.19					
15		8.1	3.03					
16		8.4	3.20					
17		8.4	3.43					
18		9.1	8.9 3.41					
20		9.6	9.6 3.16					
21		9.4	9.6 3.41					
22		9.9	9.8 3.55					
23		t.	t. .					
24		n.s.	n.s. .					
25								
27								
6a	4.8	4.9	5.0 01 4.9 3.69	8.6	8.5	0.09		
8a	5.8	5.9	5.9 01 5.9 3.73	9.4	9.5	0.08		
3a	B.			t.f.	t.f.	.	8.7	−1.35

12 −

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Scale M Series 14.

9.20 B46590 eq.

	sc.1		Diff	P.C. sc.1 sc.2
	3.1			
3	3.9		3.94	84 _ 1.36
	3.8			
4	3.6		4.02	9.2 _ 1.38
	4.3			
5	4.1	B	3.76	9.3 _ 1.24
	4.8			
6	4.6	4.8 4.80 0 0	3.67	9.6 _ 1.13
	5.1			
1	4.9	5.3 5.20 _ 1	3.84	4. .
	5.8			
8	5.6	5.9 5.85 0 1	3.68	
	6.6			
9	6.4	6.8 6.70 _ 1	3.39	
	7.0			
12	6.8	6.9 6.95 0 _	3.62	
14		7.2	3.59	
15		7.1	3.43	
16		8.0	3.60	
17		8.2	3.63	
18		8.1	3.71	
		9.25 0 1		
20		9.2 9.3	3.51	
		9.30 0 0		
21		9.3 9.3	3.76	
		9.60 0 0		
22		9.6 9.6	3.80	
		9.90 _ 1		
23		9.8 10.0	3.84	
		10.00 0 0		
24		10.1? 10.1?	3.83	completed
25		m.s.	,	
27		m.s.	,	
	5.1			
6a	4.9		3.54	100? _ 1.36
	6.0			
8a	5.8		3.68	m.s. ,
3a	B.		.	86 _ 1.25

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B 46590 Eq. Diffr. Inns.

	g		h	
	sc.1	sc.2	sc.1 (66)	sc.2	
3		tp.	6.4		0.44
4		.		7.6	0.22
5		.		7.8	0.26
6		.		8.3	0.17
7	9.1	8.95	12	8.8	0.09
8	9.5	9.35	12	9.X2	0.18
9	10.1	9.90	22	9.1	0.19
12		f.		~~m.~~ f.	,
14					
15					
16					
17					
18					
20					
21					
3a		tp.		7.4? Elong.	− 0.05
6a		tp.		8.4	+ 0.24
8a		tp.		9.3	+ 0.38

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Series M. B Series 140. Alt Con +.98

B 46591 D 9 17 — 15°

P.C.

	sc.1	sc.2		Cu.		sc.V pr.2	
1	B.		.	.	8.8 — 1.30		7.50
2	t.h.		.	.	8.9 — 1.30		7.60
3	40 3.8			3.87	7.87	9.1 — 1.30	7.80
4	B.	B.	.	.	9.20 — 1.29		7.91
5	B.	4.3		3.83	8.13	9.3 — 1.29	8.01
6	49 4.1	4.1 ~~5.9~~	4.80	1 1	3.73	8.53	9.4 — 1.29 8.11
7	53 5.1	5.3	5.30	0 0	3.68	8.98	9.9 — 1.24 8.66
8	t.h.	.	.		.	.	9.8 — 1.26 8.54
9	t.h.	.	.		.	.	9.9 — 1.24 8.66
10	61 5.9	6.2	6.15	1 0	3.59	9.74	n.s. . .
11	63 6.1	6.4	6.35	1 0	3.58	9.93	
12	65 6.3	6.6	6.55	1 0	3.56	10.11	
13	66 6.4	6.6	6.60	0 0	3.56	10.16	
14	70 6.8	6.9	6.95	0 1	3.55	10.50	
15	69 6.7	7.0	6.95	1 0	3.55	10.50	
16	71 6.9	7.1	7.10	0 0	3.55	10.65	
17		7.3			3.55	10.85	
18		7.7			3.57	11.27	
19		7.7			3.57	11.27	
20		7.9			3.58	11.48	
21		7.9			3.58	11.48	
22		8.0			3.59	11.59	
23		8.4			3.61	12.01	
24		8.5			3.61	12.11	
25		8.1			3.63	12.33	
26		8.8			3.64	12.44	

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Scale M

B Series 140 –

B 46591 #9. cont

	sq.²	sq.²		
	9.3000			
27	9.3	9.3	3.70	13.00
	9.3000			
28	9.3	9.3	3.70	13.00
	9.55 1/0			
29	9.5	9.6	3.74	13.29
	9.95 1/0			
30	9.9	10.0	3.80	13.75
31	†	†	,	,
32	†	†	,	,
33	m.s.		,	,

fainter than 10th mi. on scale

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Scale m

B Series 140.

B46591 Dg. 17-15° Diffr. Images.

	g sc.1	g sc.2	h sc.1	h sc.2			
1	t.p.		7.2		0.34	7.54	
2	7.5	7.35 1 2	7.2?		0.31	7.66	
3	t.p.		7.6		0.29	7.89	
4	7.6	7.60 0 0	7.6		0.29	7.89	3.71
5	t.p.		7.8		0.25	8.05	
6	8.4	8.30 1 1	8.2		0.22	8.52	3.68
7	8.5	8.50 0 0	8.5		0.20	8.70	
8	8.3 low		t.p.		022	8.52	3.57
9	t.p.		t.p.		,	,	3.69
10	9.4	9.30 1 1	9.2		019	9.49	3.53
11	9.2	9.25 0 1	9.3		020	9.45	3.54
12	9.4	9.35 0 1	9.3		0.19	9.54	3.56
13	9.8	9.80 0 0	9.8		0.20	10.00	3.51
14	9.9	9.85 1 0	9.8		0.20	10.05	3.45
15	9.9	9.95 1 0	10.0		021	10.16	3.43
16	f		f.		,	,	3.47
17							3.42
18							3.29
19							3.28
20							3.17
21							3.12
							3.02
							3.01
							3.07
							3.01
							2.99

Re (abs Curve

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Scale m. B series 140- Alt Corr +.92

B 46592 E7 17 20-45.0° overexp + .06

Rel. (chart 54) Curve	Magn.		pe 1	pe 2			P.C. pe 2		Rel. Curve	Magn.
.	.	1	B.		.	.	8.2	- 1.28	6.92	-1.30	6.90
.	.	2	B.		.	.	8.6	- 1.30	7.30	-1.29	7.31
.	.	3	B		.	.	8.6	- 1.30	7.30	-1.29	7.31
3.71	7.51	4	3.8 3.6		3.92	7.72	8.1	- 1.30	7.40	-1.29	7.41
.	.	5	B.		.	.	9.1	- 1.30	7.80	-1.27	7.83
3.68	7.78	6	4.1 3.9		3.86	7.96	9.3	- 1.29	8.01	-1.26	8.04
.	.	7	B.	B.	.	.	9.1	- 1.30	7.80	-1.27	7.83
3.57	8.37	8	4.8 4.6	4.9	4850 1	3.72	8.57	9.4 nearly sup.	.	.	.
3.69	7.74	9	4.0 3.8	4.1	4050 1	3.87	7.92	9.4 - 1.29	8.11	-1.25	8.15
3.53	8.63	10	5.1 5.9	5.1	5100 0	3.69	8.79	9.9 - 1.24	8.66	-1.25	8.65
3.54	8.54	11	4.9 4.7	5.1	5001	3.71	8.71	10.0 - 1.24	8.76	-1.24	8.76
3.56	8.46	12	4.9 4.1	4.9	4900 0	3.72	8.62	9.9 - 1.24	8.66	-1.25	8.65
3.51	8.76	13	5.2 5.0	5.3	5261	3.69	8.94	m.s.	.	.	
3.45	9.05	14	5.6 5.4	5.6	5600 0	3.63	9.23				
3.43	9.08	15	5.8 5.6	5.5	5652 1	3.62	9.27				
3.47	9.02	16	5.6 5.4	5.5	5550 1	3.64	9.19				
3.42	9.12	17	5.8 5.6	5.6	5701 1	3.62	9.32				
3.29	9.49	18	6.2 6.0	6.2	6200 0	3.59	9.79				
3.28	9.53	19	6.3 6.1	6.2	6251 0	3.58	9.83				
3.17	9.77	20	6.6 6.4	6.6	6600 0	3.56	10.16				
3.12	9.87	21	6.8 6.6	6.7	6751	3.55	10.30				
3.02	10.22	22	7.1 6.9	7.3	7201	3.55	10.75				
3.00	10.30	23		7.3		3.55	10.85				
3.00	10.30	24		7.3		3.55	10.85				
3.00	10.50	25		7.5		3.56	11.06				
2.99	10.79	26		7.8		3.58	11.38				

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Monday August 14, 1916.

Scale m

B Series 140.

B46592 87 cont.

Rel Curve	Magn.		RC 7	RC 7	Cu.	
3.02	11.12	34	8.1		3.60	11.70
3.02	11.12	35	8.1		3.60	11.70
3.02	11.12	36	8.1		3.60	11.70
3.10	11.60	30	8.5		3.61	12.11
3.13	11.73	31	8.60 00 86	86	3.62	12.22
3.15	11.85	32	8.70 00 87	87	3.63	12.33
3.16	11.91	33	8.75 01 88	87	3.64	12.39
3.34	12.64	34	9.30 00 93	93	3.70	13.00
3.36	12.81	35	9.45 01 94	95	3.72	13.17
3.54	13.39	36	9.85 01 98	99	3.79	13.64
3.58	13.48	37	9.90 00 99	99	3.80	13.70
		38	1	1		
		39	n.s.			

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1916phae.proj.10770

Monday August 14, 1916.

Copied B 27:150

Scale M. 8 series 140.

B 46593 E7 17 20-45 + Diffr Inn

	g sc.1	g sc.2	h sc.1	h sc.2			Rel. Curve	Rel. Magn.
1	6.9	6.7	6.9	6.5		0.42	7.12	0.09	6.79
2	7.1?	t.p.	7.2			0.33	7.53	0.15	7.35
3	7.1		t.p.			0.35	7.45	0.14	7.24
4	7.3	7.3	0	0	7.3	0.32	7.62	0.17	7.47
5	7.5	7.6	5	1.2	7.8	0.28	7.93	0.19	7.84
6	7.9	7.9	0	0	7.9	0.25	8.15	0.18	8.08
7	7.6	7.7	0	1.1	7.8	0.27	7.97	0.19	7.89
8	8.1	8.1	0	0	8.1	0.23	8.33	0.17	8.27
9	nearly sup.		t.p.			,	,		.
10	8.6	8.6	0	0	8.6	020	8.80	0.12	8.72
11	sup?		8.6			020	8.80	0.12	8.72
12	8.6	8.6	0	0	8.6	020	8.80	0.12	8.72
13	8.6	8.5	5	0.1	8.5	020	8.75	0.13	8.68
14	9.3	9.2	0	1.1	9.1	0.19	9.39	0.05	9.25
15	9.2 8.9	8.8	5	1.0	8.8	0.20	9.05	0.10	8.95
16	8.9	8.9	0	0	8.9	020	9.10	0.09	8.99
17	9.3	9.2	5	1.0	9.2	0.19	9.44	0.04	9.29
18	9.5	9.4	5	1.0	9.4	0.19	9.64	0.00	9.45
19	9.8	9.8	0	0	9.8	020	10.00	-0.05	9.75
20	9.8	9.8	0	0	9.8	0.20	10.00	-0.05	9.75
21	?				9.9	020	10.10	-0.08	9.82
22	m.s.		m.s.			,	,		.
23									

11:50

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1916phae.proj.10770

Friday August 25, 1916.

Measures of a plates for St. Regions.

8:15	a 11448	E 5.	12 -45°
	21 4 22	4 4	35 1 36
	22 2 23⁴	3 3	36 2 37
(24 red, 23 white star)	24 1 23?	1	38 m.s.
		2	
	23 2 25	3	
	25 4 26	4	
	26 3 27	3	
	27 1 28		
	28 1 29		
	29 2 30		
	30 2 31		
	31 1 32		
	32 1 33		
	33 2 34		
	34 1 35		

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1916phae.proj.10770

Friday August 25. 1916.

Measures of a plates. Comparison of ft stars with Diff. Im. of bit stars.
α 11448 δ 5.

Diff Im.		ft star	
22	1	37	
37	1	23?	
21	3	~~39~~ 36	
36	1	22	
21	3	35	
35	2	22	
21	2	34	
34	2	22	
21	2	33	
33	3	22	
20	=	32	
19	2	31?	
31	2	20	
17	1	30	
30	2	18	
16	2	29?	
29	1	17.	

16	2	~~27~~ 28	? Diff. Im. 17 = v.f.
~~27~~ 28	1	17	
16	1	27	
27	1	17.	
14	1	26	
26	~~2~~ 2	15	

diff. Im. 16 is too ~~the~~ faint for comparison.
" " 12 is too faint, brighter
" Images are at edge, therefore v.f.

The diff Im. h (southern Image) was used, appears slightly better than "g" image.

No comparison with P.C. made, as the images of P.C. and ft stars are not comparable.

9.05

Diff. Images do not compare well with ~~scale~~ ft stars. Ft stars are smaller than diff., and diff. are large and rather hazy.

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1916phae.proj.10770

Monday August 28, 1916.

Measures of f_2, using Argelander's method.

a 11450	f_2	12-75.
26	2	25
25	2	24
24	2	28
28	1	29
29	2	30
30	3	31.
31	1	32
32	3	33
33	3	34
34	3	35
35	2	36
36	1	37
37	1	38
38	2	39
39	2	40.
40	1	41.
41	2	42
42	2	43
43	2	44
44	1	45
45	3	46.
44		45

~~No~~ No scale compares with images on this plate, ∴ Argelander's method used.

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1916phae.proj.10770

Monday August 28. 1916–

Comparison of ff plars with diff. Images of brit stars.
α 1450 cont f_2 12 – 15°.

Diff. ff. stars

~~25~~ 24 | 45

2

Im. 44 ff.

23 2 43

43 2 24

23 | ~~45~~ 42

42 | 24

20 2 41

41 2 21

20 1 40

~~41~~ 40 2 ~~4~~ 21

18 ~~8~~ 4 39

39 1 19.

18 3 38

38 2 19

18 2 37

37 2 19

18 2 36.

36 2 19

18 | 35

35 4 19

15 | 34

34 2 16.

15 | 33

33 | 16

13 3 32

32. 2 ~~15~~ 14

13 3 31

31 3 14

30 1 13

diff. 12 bo from.

11 off pl.

10 bo from. (also bo distant)

Im ff stars are large, and do not compare easily with diff. Images.

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1916phae.proj.10770

Wednesday August 30, 1916.

Scalem

B Series 178.

B 4 6 4 8 5 C6. Use Series for Relative Magnitudes. N.S.L.

			C.C.
	Sc.1	Sc.2	Sc.2
1	B		8.3
2	B		8.4
3	tf		9.1
4	4.0	4.5	9.1
5	4.6	4.1	9.21
6	4.9?	5.21	9.5
9	5.4	5.6	9.8?
10	5.6	5.6	n.s.
10a	5.7	6.1	
12	6.21	6.21	
13	6.6	7.0	
14		7.4	
14a		7.8	
16		7.8	
17		7.8	
19		8.0	
21		8.4	
22		8.45	
23		8.1	
24		8.9	
25		9.21	9.1
26		9.4	9.21
27		9.21	9.4
28		9.8	98
30		10.1?	tf + poor 10.0?

The remaining plates in this Series do not seem to show as faint stars on the separate plates as this plate for C6.

Badly scratched.

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Wednesday August 30, 1916.

Scale m

B Series 128

	B 4648 5		C6		Diffr. Inv.
	g		h		
	sc. 1	sc. 2	sc. 1	sc. 2	
1	6.6		t.p.		
2	t.p.		t.p.		
3	t.p.		7.1		
4	7.8		7.6		
5	7.8		t.p.		
6	8.2		8.1		
9	8.5		8.5		
10	8.6		8.1		
10a	t.p.		8.8		
12	9.1		9.2		
13	9.6		9.1		
14	9.8		9.1		
16	10.0		??		
17	?		10.0		
19					
21					
22					
23					

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1916phae.proj.10770

Wednesday August 30, 1916.

Scale m

B Series 128.

B46486 12½K. 11 14-15.4

	pc.1	pc.2	pc.3	Diffr. Ins. q	Diffr. Ins. h	P.C. pc.2
1	5.9	6.1		t.f.	9.0? v.f.	w.s.
2	6.2	6.4		9.4	9.6	
3		7.6		f	f.	
4		7.9				
5		8.4				
6		8.6				
7		9.1	9.1			
8		9.3	9.2			
9		9.9	10.0			
10		10.0	10.1			
11		w.s.	w.s.			
12						
13						
14						

Plate does not show ft. stars.
Use for Relative Magnitudes. H.S.L.

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1916phae.proj.10770

Wednesday August 30, 1916.

Scale m.

B series 128.

B 46487 175K. 11 38 – 45.2

	sc.1	sc.2	sc.2	sc.2 g	sc.2 h	R.C. sc.2
1	5.9	6.2		8.9	9.1	n.s.
2		7.2		9.1	9.8	
3		8.3		n.s.	n.s.	
4		8.7	8.7			
5		8.8	8.8			
6		9.0	8.9			
7		9.0	9.0			
8		9.5	9.5			
9		9.9	9.9			
10		?	?			
11						
12						

Plate badly scratched at centre.
Does not show ft. stars.
Use for Relative Magnitudes. H. D. L.

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1916phae.proj.10770

Wednesday August 29. 1916.

Shut no 48

Shut no 68

Scale m

B series 128.

B 46488 F 21 12 − 75°

	DC.1	DC.2	Superseded Diff Series	Cu	Magn	DC.2	Diff	Cu	Magn
1	6.0 5.8	5.95 01 5.9	0.79	0.85	6.80	m.s.	0.82	0.88	6.83
2	6.4 6.2	6.40 00 6.4	0.78	0.68	7.08	m.s.	0.81	0.72	7.12
3	7.0 6.8	7.00 00 7.0	0.38	0.53	7.53		0.40	0.52	7.52
4	7.0 6.8	6.95 03 6.9	0.38	0.54	7.49		0.45	0.53	7.48
5		7.5	0.34	0.46	7.96		0.33	0.44	7.94
6		7.5	0.43	0.46	7.96		0.47	0.44	7.94
7	7.1 6.9	7.00 12 6.9	0.74	0.53	7.53		0.66	0.52	7.52
8		7.4	0.37	0.46	7.86		0.40	0.45	7.85
9		7.6		0.45	8.05		0.50	0.44	8.04
10		7.7	0.65	0.46	8.16		0.71	0.45	8.15
11	Diff centre	7.8.							
12		8.5	0.27	0.57	9.07		0.34	0.53	9.03
13		8.7	0.53	0.55	8.95		0.56	0.51	8.91
14		8.6	0.63	0.60	9.20		0.50	0.55	9.15
15		8.1	0.84	0.64	9.24		0.74	0.57	9.27
16		9.1 9.10 00 9.1	0.70	0.76	9.86		0.60	0.66	9.76
17		9.1 9.10 00 9.1	0.74	0.76	9.86		0.68	0.66	9.76
18		9.2 9.25 01 9.3	0.83	0.82	10.07		0.70	0.70	9.95
19		9.8 9.80 00 9.8	1.02	1.03	10.88		0.84	0.87	10.67
20		9.9? 7?	1.12	1.07	10.97		0.94	0.90	10.80
21		7.							
22									

This plate does not show faint stars !!

But is to be measured.

Use for Relative Magnitudes. H.S.L. H. S. L.

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1916phae.proj.10770

Wednesday August 29, 1916.

Scale m. B Series 178

B 46488 d 2.

pa. 2

51 n.s.

28

19

30

31

32

33

This plate does not show ft. stars.

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Wednesday August 29, 1916.

Scale m.

B Series 128

B 4648 8 f 2. Diff 1m.

	g sc.1	g sc.2	h sc.1	h sc.2	Diff	Cu	Magn
1	9.1	9.10	9.1		−2.43	−2.38	6.72
2	9.4	9.40	9.4		−2.19	−2.24	7.16
3	9.5	9.55	9.6		−2.15	−2.20	7.35
4	9.6	9.60	9.6		−2.20	−2.17	7.43
5	9.7	9.65	9.6		−1.82	−2.16	7.49
6	f.	10.1	10.1		−2.13	−1.95	8.15
7	f		f.				
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Use for Relative Magnitudes. H.S.L.

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1916phae..proj..10770

Wednesday August 29, 1916.

Scale m. B series 178.

B46889 152K 12 26 - 30.1

	sc.1	sc.2	sc.2	Diff. Im. sc.2 h.	Diff. Im. sc.2	P.C. sc.2
1		1.1				
2		8.8	8.9			
3		9.4	9.3			
4		10.0	9.8			
5		10.0	10.0			
6		?.	?.			
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

m.s. m.s. m.s.

Plate does not show faint stars !!

Use for Relative Magnitudes. H.S.L.

11 02

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1916phae.proj.10770

Wednesday September 6. 1916.

Scale α 9.45 — Scale measures of ~~t~~ sequence E4 9 20-45°

α 11479. E4 9 20-45°

C.C.

	scA	scB	scC.	scA	scB	scC.	Diff.	Cu.	Magn.
1	B.			3.5	B.	3.5	3.52	3.46	6.96
Extreme Edge. 2	.			4.5	4.1	4.60 1 1	2.91	2.97	7.57
3	.			5.4[2]	5.2	5.20 0 0	2.70	2.75	7.95
edge 4	.			4.9	5.2	5.05 1 2	2.93	2.80	7.85
5	.			5.5	5.3	5.40 1 1	2.64	2.68	8.08
edge 6	.			5.6	5.5	5.55 0 1	2.57	2.63	8.18
7	.				5.4	5.4	2.70	2.68	8.02
8	.				6.3 7.3?	B. 6.3	2.56	2.43	8.73
9	.			7.4	7.4 from 7.4	7.35? 1 0	1.87?	2.08?	9.43?
10	.			7.5	7.4	7.40 0 0	1.87	2.07	9.47
11					7.7	7.7	1.70	1.95	9.65
12					7.8	7.8	1.94	1.91	9.71
13					7.8	7.8	1.97	1.91	9.71
14	.				7.9 from	7.9	1.84	1.87	9.77
15	.				8.0	8.0	1.88	1.83	9.83
dbl. 16	.				8.9 dbl.	8.9	1.30	1.45	10.35
17					8.7	8.7	1.71	1.53	10.23
18	.				8.9	8.9	1.89	1.45	10.35
19	.				9.4	9.4	1.16	1.25	10.65
20	.				9.8	9.8	1.20	1.10	10.90
21	.				10.2	10.2	0.92	0.95	11.15
22	B	Cu			10.7	10.7	0.71	0.77	11.47
23	B				10.9	10.9	0.62	0.70	11.60
24	3.9	.			11.0?	11.0?	0.87?	0.65	11.65
25	3.8	.				m.s.			
26	4.0	.							

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Wednesday September 6, 1916.

Scale- Scale measures of Sequence E4.
a 11449. E4 cont.

	sc. A	sc B	sc C.			Cu.	Abs. Magn.
27	4.3	~~4.4~~ Rej.			4.3	4.67	12.39
28	4.6	4.9			4.75 ± 1	4.51	12.68
29	5.1	5.2			5.15 ± 0	4.39	12.96 ~~13.96~~
30		6.4		B.	6.4	3.93	13.75
31		6.5		6.0	6.75 ± 2	3.77	13.94
32		6.9		7.1	7.00 ± 1	3.65	14.07
33		7.3 7.2		7.2	7.20 00	3.53	14.15
34		~~7.5~~ 7.4		7.8	7.60 ± 2	3.32	14.34
35				8.5	8.5	2.85	14.77
36				8.4	8.4	2.90	14.72
37				8.9	8.9	2.68	15.00
38				9.5	9.5 9.50 0 0	2.51	15.43
39				10.6	10.5 10.550 ±	2.30	16.27
40				m.s	m.s.		

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Wednesday September 6, 1916.

Plotting sheet 82.

Scale α

Scale measures of Sequence E4.

α 11449 - E4 Diffr Inv.

	sc A	sc B	sc C.	sc C.	sc A	sc B	sc C.	Diffs		
1				B.						
2				t.p.						
3				3.2			3.2		Cu.	Magn.
4				t.p.						
5				t.p.		⊗.				
6				t.p.						
7						t.p.				
8	t.p.					t.p.				
9	t.p.			*		t.p.				
10	4.6			4.6?			4.60?.0	0	4.67? 4.56?	9.16?
11		5.1?		t.		t.p.	5.1?.0	0	4.30? 4.42?	9.52?
12	5.1				5.3		5.20 ±	1	4.54 4.38	9.58
13	t.p.				t.p.					
14	t.p.				t.p.					
15		5.6			5.9		5.75 ±	1	4.13 4.17	9.92
16		d.l.			d.l.					
17		6.3			6.5?		6.40? ±	1	4.01? 3.94?	10.34?
18		7.1 7.0			7.1 7.0		7.00 .0	0	3.79 3.65	10.65
19		~~t.l?~~ t.p.			t.p.					
20		t.p.				8.1	8.1		2.90 3.05	11.15
21			8.2			8.2	8.20 .0	0	2.92 3.00	11.20
22			8.4			8.6?	8.50? ±	1	2.91? 2.85?	11.35?
23		~~8.4~~	8.9			8.9	8.90 .0	0	2.62 2.68	11.58
24		~~8.6~~	8.6			8.9	8.75		3.12 2.73	11.48
25			9.8			9.5	9.65 2 ±		2.61 2.48	12.13
26		~~10.2~~	10.3			9.8	10.05 3 ±		2.39 2.39	12.44

scratched

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Wednesday September 6, 1916.

Scale a Scale Measures of Sequence E4

α 11449 E4.
g h

	scC.	scC	Diff. Cu. Magn.
27	10.3	9.7	10.00 3 ± 2.42 2.40 12.40 (no error in measurement)
28	10.5	10.8	10.55 ± 0 w image 2.30 2.32 12.87
29	11.0	10.9	10.95 0 ± 1.84 2.27 13.22
30	n.s.	n.s.	
31			

Diffr Im of bit stars are slightly elongated-

10.45

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Thursday September 7, 1916.

For Harvard Std. Sequence E4 - using Argelander's method

α 11442. E4.

22 1 23

23 1 24

24 3 25

25 2 26

26 2 27

27 2 28

28 1 29

29 4 30

30 2 31

31 2 32

32 1 33?

(Image of 32 is small) (Large) difficult to tell which 33 is brighter.

33 2 34

34 3 36

36 1 35

(Too poor for scale-measures)

35 1 37.

37 1 38.

38 - 39 ? (ft.)

40 m.s.

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Thursday September 7, 1916.

Comparison of ft stars with diffr. Im. of bit stars.
α 1442 cont (9 images)

37, 38 are too faint for Comparison with diffr. Im, which are very large.

11d 1 38 9.50 07 07 12.99
38 1 12d 9.64 9.57

23d 2 36 11.72
36 1 24d 11.77 11.74 02 03 15.16

Diffr. Im. of bit stars are too distant for comparison with ft stars.

23d 2 35 11.72
35 1 24d 11.77 11.74 02 03 15.16

21d 2 34 11.32
34 1 22d 11.31 11.32 00 01 14.74

19d 2 33 10.76
33 1 20d 10.90 10.83 07 07 15.25 4

19d 2 32 10.76 10.78 02 02 14.20
32 2 20d 10.80

19d 1 31? 10.66
31 2 20d 10.80 10.73 07 07 14.15

19d 1 30 10.66
30 2 20d 10.70 10.68 02 02 14.10

11d 2 29? 9.60
29 1 12d 9.64 9.62 02 02 13.04

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1916phae.proj.10770

Thursday September 7. 1916

Salem 11:55

Measures of South Polar Sequence.

B 35363. South Pole.

	Rel. magn.			O.C.				Rel.
	sc.1 sc.2	Curve	magn.	sc.1	sc.2	sc.2	Curve	magn.
a				5 5.9	5.8	5.85 10	−0.10	5.75
b				t.p.	t.p.		.	.
c				7.3	7.3	7.30 00	−0.28	7.02
d				7.5	7.5	7.50 00	−0.30	7.20
e				7.5	7.4	7.45 10	−0.30	7.15
e'				8.2	8.21	8.20 00	−0.37	7.83
f				8.2	8.3	8.25 01	−0.38	7.87
g				8.5			−0.40	8.10
h				8.8			−0.42	8.38
k	B.			9.2			−0.44	8.76
l	3.8 3.9.5		5.68	9.8			−0.48	9.32
l'	3.6 3.8		5.68	9.9			−0.48	9.42
m	3.8 4.0		5.69	10.0			−0.48	9.52
n	3.9 4.1		5.69	9.79				
n'	4.1 4.3		5.70	10.00				
o	4.1 4.3	4.5	4.40 ±1 5.70	10.10				
p	4.5 4.7 4.6 4.8	5.1	5.04 90 ±21 5.68	10.58				
q	4.9 5.1	5.2	5.15 ±0 5.67	10.82				
r	5.1 5.3	5.4	5.35 ±0 5.66	11.01				
s	5.5 5.7	5.7	5.70 00 5.61	11.31				
s'	5.4 5.6	5.6	5.60 00 5.62	11.22				
t	5.6 5.8	5.7	5.75 01 5.60	11.35				
u	5.9 6.1	6.2	6.15 ±0 5.52	11.67				
w	6.3 6.5	6.5	6.50 00 5.44	11.94				
x		7.2	5.30	12.50				
y		7.4	5.27	12.67				

from 306K =

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1916phae.proj.10770

Thursday September 7. 1916.

Scale m. Measures of South Polar Sequence.
B 5363 cont. South Pole.

	sc 2	sc 3	Curve	Rel. Magn.
z	7.4		5.77	12.67
α	7.8		5.72	13.02
β	8.1		5.19	13.29
γ	8.1		5.19	13.29
δ'	8.3		5.17	13.47
δ	~~8.3~~ 8.4		5.16	13.56
ε	8.4		5.16	13.56
ζ	8.5		5.15	13.65
η	8.9		5.15	14.05
θ	9.4		.	.
λ	9.4		.	.
ξ	9.1		.	
μ	9.4 9.45 9.5		.	.
ν	9.8 9.70 9.1		.	.
ρ	10.0 10.000 10.0		.	.
σ	10.0 9.90 9.8		.	.
τ	10.0 10.00 10.0		.	.
φ	f.			
υ	f.			
ν				
χ	m.s.			

12:30

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1916phae.proj.10770

Saturday September 9, 1916.

Scale α

Scale measures of H & K Region 85-

α 11469 85 12 - 45

		scA	scB	scC.		scA	scB	scC.
	1					4.8		
	2					5.4		
off fil.	3					off		
	4					5.3	5.40 ±1	5.5
	5					5.8	5.80 00	5.8
	6	B.				5.8	5.85 01	5.9
	7	B					6.5	B.
	8	B.						6.9
off film	9	.						.
on edge	10	t.f.						t.f.
off film	11	.						.
	12	B.						8.6
off film	13	.						.
	14	2.2?				0		9.1
	15	2.3						9.6
	16	2.5						9.8
	17	3.1						10.5
	18	3.1						10.5
	19	3.5						11.0?
	20	3.9						m.s.
	21	4.4	4.5	Rej.				
	22	5.1	5.15 ±0	5.2				
	23	5.2	5.25 01	5.3				
	24	5.8	5.80 00	5.8				
	25	5.9	5.90 00	5.9				
	26		6.9	6.85 10	6.8			

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Saturday September 9, 1916.

Scale a H. Standard Region E5.

α 11469 E5 12-45°

	scB	scC	scC.	
27	7.9 7.7	7.70 oo	7.7	
28	8.1 7.8	7.80 oo	7.8	
29	8.3 8.0	7.90 ½	7.8	
30	8.4 8.1	8.15 ½ o	8.2	
31	t.f.	8.6		
32		8.9 ~~8.95~~ 9.2	9.05 — 2	
33		9.4	9.4	9.40 oo
34		10.3	10.2	10.25 10
35		10.7	10.6	10.65 10
36		10.6?	?	10.6? a.
37		m.s.	m.s.	

Identif.?

Images poor.

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Saturday September 9, 1916.

Scale 2. Scale measures H. 8. Region E 5.

		a 11469 g			E 5 h			Diffr. Images
		pcA	B	C	pcA	B	C	Mean
	1	4.4			4.4			4.40 00
	2	tf.			tf.			.
off fil.	3	.			.			.
	4	3.4			3.6			3.50 ±1
	5	4.4			4.7			4.55 21
	6	4.1			4.1			4.10 00
	7	tf.			tf.			-
	8	5.3			5.2			5.25 10
off film	9	.			.			.
	10	tf.			tf.			.
off film	11	.			.			.
	12		6.7			6.5		6.60 ±1
" "	13	.	.			.		.
	14		6.7			6.9		6.80 ±1
	15		7.9 7.7	8.2			7.6	7.65 10
	16		7.7 7.5				7.6	7.55 ±0.
	17		~~7.8~~	7.8			7.6	7.70 ±1
	18		~~8.2~~	8.3			8.4	8.35 ±0
	19		~~8.8~~	8.8			8.7	8.75 0±1
	20		~~8.0~~	8.9			8.9	8.90 00
	21			9.4		9.0	9.2	9.30 ±1
	22			10.4			10.4	10.40 00
	23			11.0?			11.0?	11.00? 00
	24			7			7	
	25			7			7	
	26						m.s.	

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Saturday September 9, 1916.

Measures of S.P. Sequence
~~Q~~ B 35365 South Pole. (Argelander's Method)

l 3 m	y 1 z	π 1 ρ
m 1 n	z 2 α	ρ 1 τ ~~ρ 2 ϵ~~
n 2 o	α 1 β	ϵ τ 2 σ
o 1. n'	β 1 γ	σ 1 ~~υ~~ υ
n' 2 p	γ 2 δ'	υ 1 ν ~~υ~~ 1 ϕ
p 1 q	δ' 1 δ	ϕ = ψ
q 2 r	δ 1 ϵ	
r 1 s'	ϵ 1 ζ	
s' 2 s	ζ 2 η	
s 1 t	η 1 θ	
t 2 u	θ 1 λ	
u 3 w	λ 3 ξ	
w 2 x	ξ 1 μ	
x 2 y	μ 2 π	

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1916phae.proj.10770

Saturday Sept. 9, 1916.

Comparison of ft stars with pris. Comp.
B 35365 South Pole.

fr a 3 u
u 3 c fr

fr a 4 w
w 2 c fr

fr a 4 x
x 1 c fr (?) Comparison difficult

fr d 3 y
y 1 e' l = bis fr to use

fr d 2 z
z 1 e' fr

fr e' 1 α
α 1 f fr

β = f fr

fr e' 1 f
f 2 f fr

fr f 1 δ'
δ' 2 g fr

fr f 1 δ
δ 1 g fr

fr f 1 ε pc. g' = foor.
ε 1 g fr.

fr h 1 ζ
ζ 2 K fr.

fr k 2 η
η 1 K fr

fr h 3 θ
θ 1 K fr

λ = K fr
λ 2 l' fr (fr c l nearly sup)

fr k 3 ζ
ζ 1 l' fr

fr k 2 μ
μ 1 l' fr?

fr l' 2 π
/ π 1 n fr (n bis fr or)

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Saturday September 9, 1916

Comparison of ft stars cont.

B35365.

fr m 2 f

f' 1 m fr

fr m = σ

fr m 1 τ

τ 1 m fr

faint ? fr m 3 ν

ν 1 m fr

(obt?) fr m 1 φ

φ 1 μ fr

12:10

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1916phae.proj.10770

Monday, September 11, 1916

Scale M 9:50

Scale measures of South Polar Sequence.

B 47658 South Pole.

		sc.1	sc.2		Rel. magn.	sc.1	sc.2	sc.2		curve	Rel. magn.
a						5.2 5.4	5.3	5.35 ∘		0.46	5.81
b							tfr.	gf		·	·
c							6.4	6.4	6.40 ∞	0.43	6.83
d							7.1	6.9	7.00 ∘	0.40	7.40
e	B.						tfr.	tfr.	·	·	·
e'	B.						7.4	7.5	7.45 ∘	0.39	7.84
f	B.						7.1?	7.2 poor	7.15? ∘	0.40	7.55?
g	2.6 2.8			·	·		7.6			0.38	7.98
h	3.0 3.2			·	·		8.1			0.37	8.47
k	3.3 3.5			·	·		8.4			0.38	8.78
l	f' 4.1 4.3			·	·		9.1?			0.40	9.51?
l'	tfr.			·	·		tfr.			·	·
m	4.2 4.4			·	·		9.6			0.40	10.00
n	4.3 4.5			·	·		9.6			0.40	10.00
n'	4.8 5.0	5.0	5.00 ∞	·	·		nearly sup.			·	·
o	4.8 5.0	5.2	5.10 ∘	·	·		9.7			0.40	10.10
p	4.8 5.0	5.1	5.05 ∘	·	·		9.8			0.40	10.20
q	5.1 5.3	5.5	5.40 ∘	5.58	10.98		f.				
r	5.0 5.2	5.4	5.30 ∘	f.	·						
s	5.2 5.4	5.6	5.50 ∘	5.58	11.08						
s'	~~4.5~~ 5.4	5.6	5.60 ∞	5.58	11.18						
t	5.6 5.8	5.8	5.80 ∞	5.58	11.38						
u	5.8 6.0	6.1	6.05 ∘	5.57	11.62						
w	5.9 6.1	6.4	6.25 ∘	5.55	11.80						
x		7.1		5.48	12.58						
y		7.3		5.45	12.75						

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1916phae.proj.10770

Monday September 11, 1916.

Sept. m. Scale measures of South Polar Sequence
B 47658 cont

	sc 2	sc 7		Curve	Rel. Magn.
z	7.21			5.47	12.67
α	7.6			5.43	13.03
β	7.9			5.40	13.30
[illegible]	8.1			5.38	13.48
δ	8.1			5.38	13.48
ε	8.4			5.36	13.76
ζ	8.21	8.3	8.25 01	5.37	13.62
η	8.1	8.1	8.70 00	5.35	14.05
θ	8.8	8.8	8.80 00	5.34	14.14
λ	8.9	9.1	9.00 ± 1	.	.
ξ	9.5	9.1	9.60 ± 1		
μ	9.5	9.5	9.50 00	;	;
π	9.6	9.4	9.50 1 ±	.	.
ρ	9.8	9.4	9.60 2 ±	.	.
σ	9.9	9.9	9.90 00	.	.
τ	9.9	9.9	9.90 00	.	.
υ	10.0	10.0	10.00 00	.	.
ν	10.0?	10.0	10.00? 00	.	.
φ	f.	f			
χ	m.s	f.s.			
ψ	f.	f			

10:45—

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Wednesday
Tuesday, September 12, 1916.

Stars 9—

Measures of B plate - South Polar Sequences.
B 35476 South Pole. Using Anglander's Method -

m 1 m'	α 2 β
m' 1 o	β 1 γ
o 3 p	γ 2 δ
p 2 q	δ 2 δ'
q 2 r	δ' 1 ϵ
r 1 s'	ϵ 2 ζ
s' 2 t	ζ 3 η
t 1 v	η 1 θ
v 1 u	θ 1 λ
u 5 w	λ 3 μ
w 4 x	μ 1 ξ
x 4 y	ξ 2 π
y 1 z	π 1 ρ τ
z 3 α	ρ σ τ 1 ρ

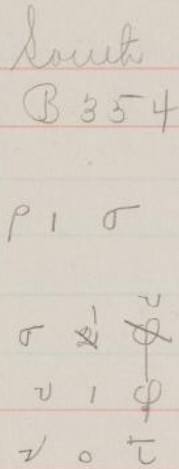
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Wednesday September 13, 1916.

South Polar Sequence cont

B 35476



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Wednesday September 13, 1916.

~~Scale~~ South Polar Sequence. Comparison of ft stars and (P.C. of bt stars
~~9 F~~ B 35476 cont.
Capital letters = pris. companions used.

~~a 2 a'~~ A a 2 a'	F 1 β
a' 5 ~~a~~ B	β 1 G
A 4 a	F 1 γ
a 3 B	γ 2 G
A 2 t	G 1 δ
t 3 B	δ 2 H.
A 3 u	G 2 δ'
u 3 B	δ' 1 H
A η W ?	G 1 ε
W 1 B	ε 1 H.
C 2 x	H 1 ζ
x 1 D	ζ 1 K
E 2 y	K 1 η
y 1 F	η 2 ~~λ~~ L
E 2 z	L ~~λ~~ 1 θ
z 2 F	θ 2 M
E 3 α	L λ 2 λ
α 1 F	λ 2 M

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Wednesday, September 13, 1916.

South Polar Sequence cont.

B 35476 cont.

m | Σ

Σ | h

m | μ

μ 2 n

m | π

π | n

n | ρ

ρ | o

o | σ

= P.C. per 100 ft.

o 2 τ

p.c. per 100 ft.

o | v

p.c. per 100 ft.

10:25

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Thursday, September 14, 1916.

Measures of Harvard Standard Sequence.
Using Argelander's Method.

a 11457	E5
14 2 ~~15~~ 16	28 2 29
~~15~~ 16 1 15	29 2 30
15 2 17	30 1 31
17 2 18	31 1 32
18 2 19	32 1 33
19 3 20	33 2 34
20 2 21	34 1 35
21 4 22	35 2 36
22 ~~3~~ 4 23	37 m.s.
23 2 24	
24 2 25	
25 3 26	
26 2 27	
27 1 28	

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1916phae.proj.10770

Thursday September 14, 1916.

Comparison of ft stars with diffr. Imp of bri stars.

R 11457 E5

(Imp)

14d 1 26
26 1 15d

16d 2 27
27 1 17d

16d 2 28
28 1 17d

17d 1 29
29 2 18d

18d 1 30
30 1 19d

19d 1 31
31 1 20d

19d 2 32
32 1 20d

20d 2 ~~32~~ 33
~~32~~ 33 1 21d

21d 3 34
34 1 22d

21d 2 35
35 ~~1~~ 1 22d

22d 1 36
36 1 23d (?) 23d very ft

37 n.s.

Brighter diffr. Images not used on account of distance from centre.

Pris Comp. not used for Comparison, as they are sharp and do not ~~have~~ [illegible]

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1916phae.proj.10770

Friday September 15, 1916.

Plot sheet 86.

Scale ∝ 10.20 — Scale measures of Harvard Standard Region E6. — A11458 E6 — 14 40-45°

P.C.

	pc A	pc B	pc C.	pc A	pc B	pc C.	Diff.		Curve	magn.
Off film	1			Off film			.		.	
	2			2.4			~~+1.19~~	+4.28	4.13	6.53
	3			2.8			~~3.96~~	3.89	3.97	6.77
	4			3.4			~~3.68~~	3.67	3.70	7.10
	5			Off.			.	.	.	.
	6				tfr.		.	.	.	.
	7				4.4 rej.		.	.	3.28	7.68
	8			5.1	5.1		~~3.16~~ ~~2.12~~	3.22	2.99	8.09
	9			5.6	5.6		~~2.73~~	2.73	2.73	8.33
	10			5.8	5.8		~~2.64~~	2.62	2.62	8.42
	11			6.8	6.8		~~1.99~~	2.04	2.18	8.98
	12			6.7	6.7		~~2.31~~	2.20	2.20	8.90
	13			6.8	6.8		~~2.18~~	2.18	2.18	8.98
	14			8.0	7.8		~~1.61~~	1.64	1.70	9.50
	15			7.6	7.4		~~1.92~~	1.93	1.90	9.30
	16			7.4	7.3		~~2.04~~	2.02	1.95	9.25
	17			tfr.	9			.	.	.
	18			8.3	8.0		~~1.80~~	1.77	1.61	9.61
	19			sec						
	20			8.5			~~1.27~~	1.30	1.37	9.87
	21			8.9			~~1.11~~	1.20	1.20	10.10
	22			9.7			~~0.76~~	0.81	0.81	10.51
	23			9.4			~~1.06~~	1.06[3]	0.97	10.37
	24	B		9.5			~~0.98~~	~~1.04~~ 0.98	0.91	10.41
	25	1.3		10.4			~~0.31~~	0.40	0.40	10.80
	26	1.8		10.6			~~0.20~~	0.24	0.28	10.88
				11.0			~~0.10~~	0.10	0.06	11.06

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Friday September 15, 1916.

Scale d H.S. Region E6 cont

Q 11458 E6 cont.

	scA	scB	scC.		Diff Curve	Magn.	P.C. scC. ∓ +3.42
27	2.1			2.1 a.	4.92	7.02	10.44
28	3.1			3.1 a.	4.74	7.84	11.26
29	2.8			2.8 a.	4.79	7.59	11.01
30	3.8			3.8 a.	4.60	8.40	11.82
31	3.8	B.		3.8 a.	4.60	8.40	11.82
32	4.4	4.2		4.4 a.	4.43	8.83	12.25
33	4.4	4.4		4.4 a.	4.43	8.83	12.25
34	4.3.	4.6		4.3 a.	4.46	8.76	12.18
35	4.4	4.6 sj.		4.4 a.	4.43	8.83	12.25
36		5.6		5.6 a.	3.97	9.51	12.99
37		5.7		5.7 a.	3.93	9.63	13.05
38		6.4	B	6.4 a.	3.66	10.06	13.48
39		6.6	7.1	6.85 23	3.47	10.32	13.74
40		7.2 7.1	7.4	7.25 12	3.28	10.53	13.95
41		8.4 8.1	8.1	8.10 00	2.86	10.96	14.38
42			8.8		2.50	11.30	14.72
43			9.2		2.28	11.48	14.90
44		9.4	9.4		2.18	11.58	15.00
45			10.6		1.61	12.21	15.63
46			m.s.				
47			m.s.				
~~48~~							

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Friday September 15, 1916.

Scale α H. S. Region E6 cont Plot sheet 86

α 11 4 58 E6

		g scA	scB	scC	h scA	B	scC	Meangth.	Diff.	Diff.	curve mags.
off film	1	.			.			.			
	2	1.9			1.8			1.85 10	+4.74	+4.83	+4.98? 6.82
	3				1.8			1.8 · a	4.96	4.89	4.98 6.78
	4	2.8			2.5			2.65 2 1	4.43	4.42	4.82 7.47
" "	5	.			.			.	.		. .
	6	2.3?			2.4?			2.35? 1 0	5.24	5.23?	4.88? 7.23?
	7	3.4			3.6			3.50 1 1	4.36	4.38	4.65 8.15
near edge.	8	hf.			3.6?			2.6? · a	5.66?	5.72?	4.82 7.42?
	9	4.1			3.6			3.85 3 2	4.48	4.48	4.58 8.43
	10	3.1			3.5			3.30 2 2	5.11	5.12	4.70 8.00
	11		4.2 rej.		4.3			4.3 · a	4.49	4.54	4.47 8.77
	12		5.1 ·		5.1			5.10 00	3.91	3.80	4.18 9.28
	13		4.2 rej.		4.3			4.3 · a	4.68	4.68	4.47 8.77
	14		5.1		5.2			5.15 1 0	4.36	4.39	4.17 9.32
	15		5.2		5.1			5.15 0 1	4.17	4.18	4.17 9.32
	16	4.9			4.7			4.80 1 1	4.54	4.52	4.39 9.09
	17	5.2			5.5			5.35 2 1	4.30	4.31	4.08 9.43
	18		6.4			6.3		6.35 0 1	3.45	3.42	3.68 10.03
	19		6.1			6.3		6.20 1 1	3.57	3.60	3.78 9.93
	20		6.3			6.3		6.30 00	3.71	3.80	3.70 10.00
	21		7.1	7.0		7.4	7.3	7.15 2 1	3.31	3.36	3.31 10.46
	22		6.7	6.5		7.1	7.0	6.85 2 1	3.61	3.58	3.48 10.33
	23		7.1	7.0		7.1	7.0	7.00 00	3.48	3.54	3.39 10.39
	24		7.5	7.4		7.5	7.4	7.40 00	3.31	3.24	3.20 10.60
	25		8.1	7.8		7.7	7.5	7.65 2 1	3.15	3.09	3.09 10.74
	26		hf.				8.6?	8.6 · a	2.50?	2.50	2.60 11.20?

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1916phae.proj.10770

Friday September 15, 1916.

N. P. Region cont.

α 11 45 8 E 6-

Diff. Images.

	q	h				Curve mags.
	pC.	sec		Diff.		
27	9.1	8.9	9.00 ±	2.52	+2.40	11.40
28	sup?	10.1	10.1 · ?	1.79	1.82	11.92
29	10.0	10.1	10.05 01	1.87	1.83	11.88
30	10.6	10.4	10.50 ±	1.64	1.64	12.14
31	10.1	10.8	10.75 ± 0	1.60	1.56	12.31
32	n.s.	n.s.	. .			

10:45

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Saturday September 16, 1916.

Measures of Harvard Standard Region E6.

9-	* a11471	E6	14 40-45°
	20 4 21		33 1 34
	21 3 22		34 1 35
	22 1 23		35 2 36
	23 2 24		36 1 37
	24 1 25		37 3 38
	25 3 26		38 2 39
	26 3 27		39 1 40
	27 2 ~~28~~ 29		~~40 3 42~~ 40 2 41
	29 1 28		~~41 42 1 41~~ w.s used 41 2 42
	28 2 30		~~41 1 43~~ 42 1 43
	30 1 31		~~43 2 44~~ 42 3 44
	31 2 32		44 1 45
	32 0 33		46, 47 n.s.

* Images very poor.

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Saturday September 16, 1916.

Measures of Harvard Standard Region E6.

A11471 E6 cont (Comparison of ft stars with P.C of bit stars

fp 25 1 45
45 1 26fp

fp 24 2 44
44 1 ~~26~~ 25fp

fp 24 1 43
43 1 25fp

fp 20 1 42 ?
42 2 21fp ?

fp 19 1 41
41 1 20fp

fp 18 2 40
40 2 19fp.

Prism stir companions of bright stars are small and sharp and do not compare with faint stars.

ft. stars and fp. c. do not compare well.

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Saturday September 16, 1916.

Comparison of ft stars with diffr. rin of bk stars.

α 11 47 1 E6

d 31 1 45
45 1 32d ?
45 very faint.

d 28 1 44
44 1 29d

d 29 1 43
43 2 30d

d 27 2 42
42 1 28d

d 27 2 41
41 2 26d

d 25 1 40
40 2 26d

d 22 2 39
39 1 23d

d 23 1 38
38 2 24d

19d 2 37 ?
37 1 20d

d 17 · 1 36 ? Large distance between 17 & 36.
36 1 18d

13d 2 35
35 1 14d

13d 3 35 ?
35 1 14d ?

~~If~~ h images appear more comparable with faint stars than g images, ∴ h used.

10:18

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1916phae.proj.10770

Tuesday September 19, 1916.

Scale M B Series 43.

9.10 - B 45467 C 10. 19 +15

		ec 1	ec 2	Diff		ec 1 ec 2
1	B			.		8.4 — 1.56
2	B			.		8.8 — 1.39
3	4.1 3.9 hom			3.24		8.8 — 1.46
4	4.4 4.2 hom	4.1	4.25	2 1	3.59	9.1 — 1.26
6	4.8 4.6 4.9 4.7	5.1	5.1498	2 1	3.52	10.0 — 1.50
7	4.7 4.5	4.8 5.1	4.75	1 0	3.54	f .
8	5.8 5.6	5.1	5.75	0 1	3.35	
9	6.0 5.8	5.9	5.95	0 1	3.45	
10	6.3 6.1	6.1	6.20	1 1	3.49	
11	6.8 6.6	6.8	6.80	0 0	3.24	
12		7.1	.		3.39	
13		7.4			3.33	
15		7.7			3.47	
16		8.1			3.42	
17		8.5			3.40	
18		8.9 8.90	8.9	0 0	3.45	
19		9.3 9.30	9.3	0 0	3.44	
20		9.7 9.70	9.7	0 0	3.17	
21		9.9 9.95	10.0	1 1	3.53	
22		m.s.				
24						
25						
26						
2		9.8			3.14	

See also next page.

Images on this plate much elongated.

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Tuesday September 19, 1916.

Scale M

B Series 43

	B4546		C10	Diff. Im.	
	g		pc1 sc2		
	sc.1 sc.2		h	Diff.	Curve
1	t.p.		6.4	0.44	344
2	t.p.		7.2	0.21	
3	t.p.		t.p.	,	
4	t.p.		t.p.	,	
6	t.p.		8.1	0.40	
7	t.p.		7.9	0.39	
8	t.p.		8.1	0.40	
9	9.2	9.15 0	9.1	0.25	
10	9.5	9.40 1	9.3	0.29	
11	10.1	10.05 10	10.0	-0.01	
12	m.s.		m.s.	,	
13					
15					
16					
17					
18					

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Tuesday September 19, 1916.

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Scale M B Series 43. Alt Corr. +08

B 45 469 135 K 19 14 - 14.9

Diffr. Inn Pc.

	sc.1	sc.2	sc.2	Curve.	Magn.	g	h		Cu.	Magn.	sc.2
1	5.6 5.4	5.6	5.60 0 0	339	8.99	9.1	9.1	9.1000	0.23	9.33	m.s.
2	6.7 6.5	6.8	6.75 1 0	344	10.19	9.8	9.1	9.7501	0.06	981	m.s.
3	6.7 6.5	6.9	6.80 1 1	344	10.24	10.0	10.0	10.0000	−0.01	9.99	
4		7.5		341	10.91	m.s.	m.s.		.	.	
5		8.0		340	11.40						
6		8.2		340	11.60						
7		8.5		340	11.90						
8		8.1	9.25 0 1	340 / 341	12.10						
9		~~9.5~~ 9.2 w.s.	9.35 0 1	9.3	12.66						
10		9.4	9.40 0 0	9.3 342	12.77						
11		9.4	9.85 0 1	9.4 342	12.82						
12		9.8		9.9 343	13.28						
13		7.		7 ,	,						
14			m.s.	.	,						
15											

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Tuesday September 19. 1916.

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Scale M. B series 43. Alt Corr +01

B 45470 182 K 18h 51m −44 9

	Sc.1	Sc.2	Sc.?	Curve.	Magn	Diffr 1m. g	h	Cu.	Magn	P.C. Sc.2		
	5.0	5				8.40 0.0						
1	4.8	6.1	505 01	3.50	8.55	8.4	8.4	0.31	8.71	10.0?	−142	8.58?
	6.3					9.20 0.0						
2	6.1	6.2	625 10	3.45	9.70	9.2	9.2	0.21	9.41	n.s.	.	.
	6.6					9.80 0.0						
3	6.4	6.5	655 01	3.44	9.99	9.8	9.8	0.04	9.84			
	6.7					9.80 1.1						
4	6.5	6.8	675 10	3.44	10.19	9.9	9.9	0.04	9.84			
5		6.8		3.43	10.23	+	10.0	−.001	9.99			
6		7.2		3.42	10.62	n.s.	n.s.	.	.			
7		7.4		3.41	10.81							
8		7.7		3.40	11.10							
9		8.2		3.40	11.60							
10		8.4		3.40	11.80							
11		8.8	905 12	3.40	12.20							
12		8.9	9.2	3.41	12.46							
		9.25 1.0										
13		9.3	9.4	3.42	12.77							
		9.70 1.1										
14		9.8	9.6	3.42	13.12							
		10.00 0.0										
15		10.0	10.0	3.44	13.44							

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Tuesday September 19, 1916.

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Scale M

B Series 43.

Alt Corr + 02

B 45471 1831K. 19h 5f -44.9

	sc.1	sc.2	Cu.	Magn	Diffr. Dm. g h			Magn	CC. sc.2	
1	B 4.0		,	.	v.f. sc.2 5.8? poor 7/60 00		,	Magn	7.1	. .
2	~~3.8~~ 6.0	B.	3.61	7.61	7.6 9.15 01	7.6	0.33	7.93	9.1 — 1.41	7.69
3	5.8	5.8 5.90 1	3.46	9.36	9.2	9.1	0.22	9.37	n.s.	. .
4		7.2	3.42	10.62	+ 10.0		− 0.01	9.99		
5		7.6	3.40	11.00	m.s.	m.s.	.	.		
6		7.9	3.40	11.30						
7		8.2	3.40	11.60						
8		8.2	3.40	11.60						
9		8.4	3.40	11.80						
10		8.7 8.90 00	3.40	12.10						
11		8.9 8.9 9.20 00	3.40	12.30						
12		9.2 9.2 9.45 0 1	3.41	12.61						
13		9.4 9.5 9.95 0 1	3.42	12.87						
14		10.0 9.9 10.00 00	3.44	13.39						
15		10.0 10.0	3.44	13.44						

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1916phae.proj.10770

Tuesday September 19. 1916.

Scale m. B Series 43.

B 45472 C 11

	sec. 1	sec 2	Diff	OC.
1			.	8.4 – 1.59
2	3.8		.	8.6 – 1.52
3	3.6		3.87	9.1 – 1.43
4	4.1 3.9		3.81	9.4 – 1.49
5	4.8 4.6	4.9 4.85 0	1.345	9.1 – 1.40
6	4.5 4.4	4.60 1.02 1 4.845	3.86	9.1 – 1.24
7	5.3 5.1	5.3 5.30 0 0	3.53	7. .
8	5.7 5.5	5.6 5.65 1 0	3.38	
10	5.7 5.1	5.8 5.85 1 0	3.60	
12	6.3 6.1	6.1 6.20 1 1	3.65	
14	6.7 6.5	6.5 6.60 1 1	3.37	
15	7.0 6.8	7.1 7.05 0 1	3.35	
16		7.5	3.20	
17		7.8	3.22	
20		8.1	3.29	
23		8.1	3.16	
24		8.90 0 0 8.9	3.50	
25		9.15 1 0 9.1 9.2	3.42	
26		9.80 0 0 9.8 9.8	3.10	
27		9.65 0 1 9.6 9.7	3.49	
28		9.95 0 1 10.0 9.9	3.44	
29		10.00 0 0 10.0 10.0	3.57	
30		7. 7.	.	
31		N.S.	.	

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Tuesday September 19, 1916.

Scale M

B Series 43.

B 4547/2 C 11 Diffr. Im.

	g sc.1	g sc.2		R sc.1	R sc.2	Diff
1		f.p.			6.7	0.11
2		f.p.			6.9	0.18
3		7.4	7.50 L 1		7.6	0.67
4		7.6	7.65 0 1		7.7	0.26
5		8.2	8.15 0 L		8.1	0.15
6		8.1	8.15 L 0		8.2	0.31
7		8.6	8.6000		8.6	0.23
8		8.7	8.65 1 0		8.6	0.38
10		9.4	9.30 1 L		9.2	0.15
12		9.8	9.90 L 1		10.0	−0.05
14		f.			10.0	−0.03
15						
16						
17						
20						
23						

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Tuesday September 19, 1916

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Scale B series 43 Alt Corr — 08

B 45474 198 K. 21 00 – 59.9

	sc 1			Cu.	Magn	Diff. Im. sc 2	sc 2			P.C. sc 7	
1	B.			.	.	t/p. 9.1?		0.32	7.42?	8.1	– 141 7.29
2	4.1	B.		351	8.41	8.6 8.65 01	8.1	0.29	8.94	10.1? St.	– 142 8.68?
3	5.9	5.9	6.10 00	345	9.55	9.8 9.80 00	9.8	0.04	9.84		
4	6.1	6.1	6.20 1 1	345	9.65	10.0 10.00 00	10.0	–0.01	9.99		
5	6.1	6.1	6.20 1 1	345	9.65	10.0 10.00 00	10.0	–0.01	9.99		
6		7.6		340	11.00						
7		7.8		340	11.20						
8		7.9		340	11.30						
9		7.9		340	11.30						
10		8.3		340	11.70						
11		8.7 00 8.1	8.1	340	12.10						
12		8.9 8.90 00	8.9	340	12.30						
13		8.9 8.85 1 2	8.8	340	12.25						
14		9.2 9.20 00	9.2	341	12.61						
15		9.1 9.55 1 0	9.8	343	13.28						
16		7.7 w.s.	f.	.	.						

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Tuesday September 19, 1916.

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Scale M B Series 43. Alt Corr +.02

B45475 184K 20 50-44.8

	sc.1	sc.2		Cw.	Magn	sc.2 g	sc.2 h			P.C. sc.2
	3.5									
1	3.3	B.		,	.	+f.	6.21	.	,	8.21 ,
	4.9					8.35 01				
2	4.1	5.1	500 1 1	350	8.50	8.4	8.3	0.32	8.67	f .
	5.5									
3	5.3	5.5	550 00	348	8.98	+f.	+f.	.	.	
	6.4					10.00 00				
4	6.21	6.5	645 01	344	9.89	10.0	10.0	-.001	9.99	
5		1.4		341	10.81	m.s.	m.s.	,	.	
6		7.8		340	11.20					
7		8.1		340	11.50					
8		8.8		340	12.20					
		8.95 1 2								
9		8.8	9.1	341	12.36					
		9.15 01								
10		9.21	9.1	341	12.56					
		9.80 00								
11		9.8	9.8	343	13.23					
		10.00 00								
12		10.0	10.0	344	13.44					
13		f.	f.	.	.					
14		f.?	m.s.	.	.					
15		m.s.	m.s.	,	.					

11 —

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Wednesday September 20, 1916.

Salem.

B Series 55

10:20 B 45622 C 10 19 + 15°

				Diff.	P.C. Rc 2
1					8.1 — 1.26
2					8.1 — 1.29
3	3.5 3.3			3.84	8.1 — 1.36
4	3.9 3.1			3.94	9.1 — 1.26
6	4.4 4.2	4.1	4.25 2 1	4.25	9.9 — 1.40
7	4.3 4.1	4.2	4.25 1 0	4.04	9.6 — 1.31
8	5.2 5.0	5.3	5.25 0 1	3.85	sup? ,
9	5.5 5.3	5.6	5.55 1 0	3.85	n.s ,
10	5.8 5.6	6.1	5.95 2 1	3.74	
11	6.4 6.2	6.5	6.45 0 1	3.59	
12	6.8 6.6	6.9	6.85 0 1	3.64	
13		7.2		3.53	
15		7.5		3.67	
16		8.0		3.52	
17		8.3		3.60	
18		8.1		3.65	
19		9.2 0 0 9.2	9 2 1	3.54	
20		9.3 0 0 9.3	9 3 1	3.57	
21		9.9	9.8	3.63	
22		n.s.	n.s	,	
24		n.s.		,	
25					
26					
27					
2		9.6		3.34	

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Wednesday September 20, 1916.

Scalum

B Series 55.

B 45622 C 10 - Diffr Im.

	g sc.1	g sc.2	h sc.1	h sc.2	
			6.1		
1	tf.		5.9		0.74
			6.9		
2			6.7		0.51
	6.6		6.9		
3	6.4	6.75 2 1	6.7		0.59
4	tf.			7.3	0.54
6				8.1	0.40
7				7.8	0.49
8				8.5	0.60
9		t.f.		8.8	0.60
10		9.2	9.15 0 1	9.1	0.54
11		9.9	9.80 1 1	9.7	0.24
12		n.s.		n.s.	
13					
15					
16					
17					

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Wednesday September 20, 1916.

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Scale M. B Series 55. Alt Corr. +08

B 4563 73 135 K. 19 14-14.9

Diffr'l Inv.

	pc.1	pc.2	Cw.	Magn	pc.2	pc.2			P.C. pc.2
	5.1 5.1 4.9	5.22 1 1 21			8.6 8.65 0 1				
1	4.9	5.4 5.3	3.90	9.12	8.6 8.7	0.51	9.16		m.s.
	6.0				9.45 1 0				
2	5.8	6.21 6.10 1 1	3.78	9.88	9.5 9.4	0.46	9.91		
	6.6				9.85 1 0				
3	6.4	6.6 6.60 0 0	3.70	10.30	9.9 9.8	0.42	10.27		
	7.1								
4	6.9	7.21 7.15 1 0	3.64	10.79	‡ ‡	.	.		
5		7.9	3.58	11.48					
6		8.0	3.57	11.57					
7		4 m.s. 8.2	3.55	11.75					
8		8.1	3.53	12.23					
9		9.0	3.53	12.53					
		9.00 0 0							
10		9.0 9.0	3.53	12.53					
		9.20 0 0							
11		9.2 9.21	3.52	12.72					
		9.55 0 1							
12		9.6 9.5	3.52	13.07					
		9.85 0 1							
13		9.8 9.9	3.51	13.36					
14		def? def?	.	.					
15		m.s.	.	.					

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Wednesday September 20, 1916.

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Scale m. B Series 55. Alt Corr. +06

B 4562 4 159 K.

	sc.1	sc.2		Cu.	Magn	Diffr. Im. g	h sc.2		Cu.		P.C. sc.2	
1	4.1 3.9			4.08	8.18	7.6	7.6	7.60 0 0	0.53	8.13	9.5 – 1.35	8.15
2	4.8 4.6	B.		3.98	8.78	t.p.	8.2		0.54	8.74	9.9 – 1.34	8.56
3	5.7 5.5	5.4	5.70 0 0	3.83	9.53	8.6	8.7	8.65 0 1	0.50	9.15	m.s. ,	,
4	5.9 5.7	5.7	5.80 1 1	3.81	9.61	8.8	8.8	8.80 0 0	0.50	9.30		
5	6.6 6.4	6.6	6.60 0 0	3.70	10.30	9.7	9.6	9.65 1 0	0.44	10.09		
6	6.6 6.4	6.6	6.60 0 0	3.70	10.30	9.8	9.8	9.80 0 0	0.43	10.23		
7	6.8 6.6	7.0	6.90 1 1	3.67	10.57	10.0	10.0	10.00 0 0	0.41	10.41		
8	6.8 6.6	7.1	6.95 2 1	3.66	10.61	m.s.	m.s.		,			
9		7.2		3.63	10.83							
10		7.7	7.75 1 0	3.59	11.29							
11		7.7	7.8 8.25 1 0	3.59	11.34							
12		8.3	8.2 8.45 1 0	3.54	11.79							
13		8.5	8.4 9.00 1 1	3.54	11.99							
14		8.9	9.1 9.80 0 0	3.53	12.53							
15		9.8	9.8	3.52	13.32							

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Wednesday September 20, 1916.

Copied B 34.75

Salem.

B series # 55

Alt Corr +02

B 45625 183 K. 1954-449

	sc1	sc2		Cw.		Diff. Inn. q h sc2 sc2			P.C. sc2		
1	B.			.	.	tf. 5.4? tow	.	.	1.4	.	
2	3.9 3.7	B.		4.10	8.00	tf. 7.2 860 00	0.53	7.73	8.8	-1.38	7.42
3	5.7 5.5	5.6	5.65 1 0	3.83	9.48	8.6 8.6	0.51	9.11	m.s.	.	.
4	6.7 6.5	6.6	6.65 1 0	3.70	10.35	7 9.1	0.44	10.14			
5	7.1 6.9	7.2	7.15 1 0	3.64	10.79	m.s. m.s	.	.			
6		7.4		3.61	11.01						
7		7.8		3.59	11.39						
8		7.9		3.58	11.48						
9		8.0		3.57	11.57						
10		8.2		3.55	11.75						
11		8.4 845 01	8.5	3.54	11.99						
12		8.8 880 00	8.8	3.53	12.33						
13		9.0 900 00	9.0	3.53	12.53						
14		9.6 960 00	9.6	3.52	13.12						
15		9.8 975 01	9.7	3.52	13.27						
16											

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Wednesday September 20, 1916.

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Scale m. B Series 55 Alt Corr +08

B 45626 136 K. 20 11–15°

	sc 1	sc 2		Cw		Diffr. Imm. sc 2	sc 2			P.C. sc 2	
	42 4.0?	B.		4.05	8.25	8.10 00 8.1	8.1	0.54	8.64	9.5 – 1.35	8.15
2	4.7 4.5	4.8	475 1 0	3.98	8.73	tf..	8.21	0.53	8.73	9.1? – 1.34	8.36?
3	5.9 5.1	5.1	580 1 1	3.81	9.61	9.20 00 9.21	9.21	047	9.67	n.s. ,	,
4	6.2 6.0	6.1	620 0 0	3.77	9.97	9.1	nearly sufficient	0.43	10.13		
5		1.5		3.60	11.10	n.s	n.s.	,	,		
6		8.0		3.56	11.56						
7		8.55 0 1 8.6	8.5	3.54	12.09						
8		8.85 1 0 8.9	8.8	3.53	12.38						
9		9.30 0 0 9.3	9.3	3.52	12.82						
10		9.75 0 1 9.8	9.1	3.52	13.27						
11		10.00 0 0 10.00 1 0 ~~11.0~~	~~11.0~~	3.52	13.52						
12		1.		.	.						
13											
14											
15											

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Wednesday September 20, 1916.

Scale M. B Series 55.

*B 45637 C 11

	sc 1	sc 2			B.C. sc 2
1					8.3 – 1.49
2					8.6 – 1.52
3	BB.				9.1 – 1.43
4	36 3.4			4.31	9.3 – 1.39
5	43 4.1			4.00	9.9 – 1.60
6	4.3 4.1			4.16	9.1 – 1.24
7	48 4.6	4.9	4.85	0 1 3.98	10.0? – 1.17
8	50 4.8	5.1	5.05	0 1 3.98	n.s.
10	53 5.1	5.5	5.40	1 1 4.05	
12	63 6.1	6.1	6.20	1 1 3.65	
14	63 6.1	6.1	6.20	1 1 3.77	
15	64 6.21	6.6	6.50	1 1 3.90	
16	tf.	7.21			3.50
17		7.5			3.52
20		7.8			3.59
23		8.4			3.46
24		8.75	1 0		
		8.1	8.8		3.65
25		9.00	0 0		
		9.0	9.0		3.57
26		9.50	0 0		
		9.5	9.5		3.40
27		9.50	0 0		
		9.5	9.5		3.64
28		9.70	0 0		
		9.7	9.7		3.69
29		9.90	0 0		
		9.9	9.9		3.67
30		7	7		
31		n.s.			

*Images very much elongated.

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Wednesday September 20, 1916.

Salem. B Series 55.

B45637 C11

	g sc.1	sc.2	h sc.1	sc.2	
1	tf.		6.3 6.1		0.51
2	.		6.3 6.1		0.78
3	.			1.3	0.37
4	1.5	7.50 00		4.5	0.41
5	.			4.8	0.50
6	..			1.9	0.56
7	.			8.4	0.43
8	8.5	8.50 00		8.5	0.53
10	tf.			9.1	0.35
12	9.6	9.65 01		9.7	0.20
14	10.0	10.00 00		10.0	-.003
15	N.S.			N.S.	
16					
17					

11.28

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Friday September 22, 1916.

Scale m

B Series 55

9:30 B 45627 C 11

					P.C.	
	pc.1	pc.2			pc.1	pc.2
1				,	8.3	— 1.49
2	B			,	8.4	— 1.32
3	3.7 3.5			3.97	9.0	— 1.33
4	3.7 3.5			4.21	9.3	— 1.39
5	4.1 3.9			4.20	9.1	— 1.40
6	4.4 4.2	4.6	4.50 ⊥ 1	3.96	9.1	— 1.24
7	4.9 4.1	5.1	5.00 ⊥ 1	3.83	‡	,
8	4.9 4.7	5.1	5.00 ⊥ 1	4.03		
10	5.5 5.3	5.6	5.55 ⊥ 0	3.90		
12	5.9 5.7	6.1	6.00 ⊥ 1	3.85		
14	6.0 5.8	6.2	6.10 ⊥ 1	3.87		
15	6.7 6.5	6.5	6.60 1 ⊥	3.80		
16		7.2		3.50		
17		7.5		3.52		
20		7.8		3.59		
23		8.4		3.46		
24		8.6		3.80		
25		8.9	8.95 ⊥ 0 9.0	3.62		
26		9.4	9.40 0 0 9.4	3.50		
27		9.6	9.60 0 0 9.6	3.54		
28		9.1	9.70 0 0 9.1	3.69		
29		9.8	9.80 0 0 9.8	3.77		
30		‡	‡	,		
31		‡		,		

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Friday September 20, 1916.

Scale m.

B Series 55.

	B 4562			C 11 -		Diffr Inv.
	g			h		
	oc. 1	oc. 2		oc. 1	oc. 2	
1	t.p.			6.3 ? v.f. 6.1		0.51
2	·			6.3 6.1		0.78
3	·				1.3	0.37
4	·				1.4	0.51
5	·				1.8	0.50
6	·				1.7	0.76
7	·				8.1	0.73
8	·				8.4	0.63
10	t.p.				9.0	0.45
12		9.5	9.60 ∠ 1		9.7	0.25
14		10.0	9.90 1 ∠		9.8	0.07
15		f.			f.	
16						
17						
20						

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Scale M

B series 55.

Alt Cont 16

B 45-6 n 8 160 K

	sc.1	sc.2		Cu.	Magn.	Diffr. Inn. sc.2	sc.2	Cu.	Magn.	P.C. sc.2
	43					7.45 1 0				
1	4.1	4.5	4.40 ∠ 1	3.96	8.36	7.5	7.4	0.54	7.89	9.2 – 1.30 7.90
	5.8					8.60 0 0				
2	5.6	5.6	5.70 1 1	3.74	9.44	8.6	8.6	0.50	9.10	n.s. . .
	5.8					8.75 0 1				
3	5.6	5.8	5.80 0 0	3.72	9.52	8.8	8.7	0.48	9.23	
	6.1					9.57 ∠ 1				
4	5.9	6.1	6.10 0 0	3.69	9.79	9.4	9.86	0.30	9.80	
	6.9									
5	6.7	6.8	6.85 1 0	3.59	10.44	9.8	th.	0.20	10.00	
	7.1									
6	6.9	7.2	7.15 ∠ 0	3.56	10.71	n.s	n.s	.	.	
7		7.4		3.53	10.93					
8		7.8		3.52	11.32					
9		8.2		3.52	11.72					
10		8.1		3.52	11.62					
		8.20 0 0								
11		8.2	8.2	3.52	11.72					
		8.90 1 1								
12		9.0	8.8	3.55	12.45					
		8.80 0 0								
13		8.8	8.8	3.54	12.34					
		9.25 1 0								
14		9.3	9.2	3.59	12.84					
		9.75 ∠ 0								
15		9.7	9.8	3.71	13.46					

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Scale m. B Series 55.

B 45-6389 184K. 20 50 - 448

	sc.1	sc.2	Cu.	Magn	Differences sc.2	sc.2	Cu.		sc.2	Cu.
1	3.2 3.0		4.20	7.40	[illegible]	[illegible] 6.3	0.54	6.84	8.1	− 1.38 6.72
2	4.6 4.4	4.6 460 00	3.93	8.53	825 10 8.3	8.2	0.52	8.77	9.9	− 1.20 8.70
3	5.3 5.1	5.5 540 L1	3.79	9.19	860 00 8.6	8.6	0.50	9.10	f.	. .
4	6.5 6.3	6.4 645 10	3.64	10.09	965 01 9.6	9.7	0.26	9.91		
5	7.0 6.8	7.2 710 L1	3.56	10.66	f	f.	.	.		
6		9.7	3.52	11.22						
7		8.1	3.53	11.63						
8		8.6	3.54	12.14						
9		8.6	3.54	12.14						
10		9.0	3.56	12.56						
11		9.25 01 9.2 9.3	3.60	12.85						
12		9.50 00 9.5 9.5	3.63	13.13						
13		9.70 00 9.7 9.7	3.69	13.39						
14		9.95 L0 9.9 10.0	3.82	13.77						
15		f.	.							

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Scale m. B Series 55. Alt Corr -32

B 45-630 205K. 20 07-75.1

	pc.1	sc.2		Cu.	Magn	Diff. dim. 9 sc.1	h sc.2			P.C. sc.2
	4.9					9.10 00				
1	4.7			3.87	8.77	9.1	9.1	0.42	9.52	4. .
	50					9.25	9			
2	4.8	5.2	5.10	1 3.84	8.94	9.2	9.3	0.39	9.64	
	60					10.00	00			
3	5.8	6.1	6.05	0 1 3.69	9.74	1.00	1.00	.	.	
	64									
4	6.21	6.2	6.30	1 1 3.66	9.96	m.s	m.s	.	.	
5		7.5		3.53	11.03					
6		7.6		3.52	11.12					
7		8.0		3.52	11.52					
8		8.21		3.52	11.72					
9		8.3		3.53	11.83					
10		8.3		3.53	11.83					
11		8.7		3.54	12.24					
12		8.8		3.54	12.34					
13		8.9		3.55	12.45					
		9.20	00							
14		9.21	9.21	3.59	12.79					
		9.40	00							
15		9.4	9.4	3.61	13.01					
		9.70	00							
16		9.1	9.7	3.69	13.39					
		9.95	10.0							
17		9.9		3.82	13.77					

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Scale m. B series 55 Alt Corr -08

B 45631 198 K. 21 00 - 59.9

	pc.1	pc.2	Cu.	Magn	Diffr Inn. pc.2	pc.2	Cu.		P.C. pc.2		
1	8		.	.	6.6	6.5	0.54	7.09	8.5	1.37	7.13
2	7.1		3.98	8.28	8.6	8.5	0.50	9.05	10.1	,	.
3	5.8	5.9	3.70	9.65	9.6	9.1	0.25	9.90	n.c	.	.
4	def.	def.	.	.	def.	def.	.	.			
5	5.8	~~5.8~~	3.69	9.74	9.9	9.8	0.20	10.05			
6		1.3	3.54	10.84	n.s	ms	,	,			
7		1.4	3.53	10.93							
8		1.4	3.53	10.93							
9		8.1	3.52	11.62							
10		8.1	3.52	11.62							
11		8.3	3.53	11.83							
12		8.8 8.1	3.54	12.29							
13		8.9 8.8	3.54	12.34							
14		9.2 9.2	3.59	12.79							
15		9.8 9.9	3.74	13.59							
16		7. 7	.	,							

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Capricd Sept. 29

Salem

B Series 55.

Alt Con + 0

B45632 137K. 21 11-148

	pc.1	pc.2	pc.3	Cu.	Magn	g pc.2	k pc.2			P.C. pc.2
	47									
1	4.5	49	480 1 1	3.89	8.69	fl. 9.15 1 0	7.8?	0.54	8.34?	9.8 — 1.21 8.59
	56									
2	5.4	5.6	560 0 0	3.75	9.35	9.1	9.2	0.39	9.54	ms . .
	5.9 60		6.05 1021			980 0 0				
3	5.1 58	6.2	6.1	3.69	9.74	9.8	9.8	0.20	10.00	
4		6.7		3.61	10.31	ms	ms.	,	,	
5		7.1		3.56	10.66					
6		7.7		3.53	11.23					
7		8.4		3.53	11.93					
		825 1 0								
8		8.3	8.2	3.52	11.77					
		845 0 1								
9		8.4	8.5	3.53	11.98					
		950 0 0								
10		9.5	9.5	3.63	13.13					
		945 0 1								
11		9.4	9.5	3.62	13.07					
		985 poor	0 1							
12		9.8	9.9	3.74	13.59					
13		f.	f.	,	.					
14		m.s.		.	.					
15										

Two sequences selected for 137 K. 1st on an mc plate, and second on this B plate, but only seq selected for mc plate measured on B45632.

Seq in red ink = Orig mc plate.

mc	B
6	= 8
8	= 10

mc	B
3	= 4
1	= 2
2	= 3

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Friday September 22, 1916.

Scale m.

B series 55.

B 45633 C11. 21 + 15

	oc.1	oc.2	Diff.	Diff. m. q		P.C. oc.2
1	B		.			
2	3.2 3.0		3.88	tf. 6.3	0.51	8.3 – 1.49
3	3.7 3.5		3.97	tf. 6.6	0.48	8.5 – 1.42
4	3.6 3.4		4.31	7.30 1.1 1.2 7.4	0.37	9.2 – 1.53
5	4.6 4.4		3.70	7.45 1.0 1.5 7.4	0.46	9.1 9.6 w.s. – 1.19
6	4.4 4.2	4.5	4.01	tf. 7.9	0.40	9.3 9.6 – 1.30
7	5.0 5.1 4.8 4.9	5.3 5.15 5.2	3.68	8.1 tf 6.9 w.s. 8.30 0.0 8.3 8.3	0.36	9.4 – 0.94
8	5.3 5.4 5.1 5.2	5.6 5.45 5.5	3.58	5.45 1.0 8.5 8.4	0.53	9.8 – 0.97
10	5.8 5.6	5.8	3.65	8.85 1.0 8.9 8.8	0.58	f .
12	6.1 5.9	6.4 6.3	3.58	9.60 1.1 9.5 9.7	0.60	
14	6.5 6.3	6.5	3.47	9.60 1.1/5 9.1 9.5	0.25	
15	6.9 6.7	7.0	3.45	f f.	0.37	
16		7.3	3.40		.	
17		7.6	3.42			
20		7.9	3.49			
23		8.4	3.46			
24		8.70 0.0 8.1 8.4	3.70			
25		8.85 1.0 8.9 8.8	3.72			
26		9.50 9.0 9.5 9.5	3.40			
27		9.50 0.0 9.5 9.5	3.64			
28		9.75 1.0 9.1 9.8	3.64			
29		9.85 0.1 9.8 9.9	3.72			
30		10.00 0.0 10.0	3.97			
31		f. ? m.s.?	.			

10:55

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1916phae.proj.10770

Monday September 25, 1916.

Scale m

10:45

B series 56.

B 456 34 C12. η 3 + 15°.

Q.C.

	AC.1	AC.2	Diff.	AC.2
1			.	8.1 — 1.50
2	3.7 3.5		3.29	8.4 — 1.41
3	3.8		..	8.9 — 1.62
4	3.6		3.76	8.9 — 1.34
5	4.1 3.9		3.74	9.5 — 1.66
6	4.3 4.1		3.92	10.0 — 1.78
8	B.	Q.	.	9.8 — 1.20
9	5.1 4.9	5.1	5.10 0 0 3.91	± .
11	5.6 5.4	5.6	5.60 0 0 3.71	
12	5.7 5.5	5.9	5.80 1 1 3.81	
14	6.4 6.2	6.4 W.S. ~~7.20~~	6.40 0 0 3.51	
16	7.0 6.8	1.2	7.10 1 1 3.28	
17		1.2	3.45	
17a		7.6	3.48	
18		7.9	3.40	
20		8.5	3.40	
21		8.55 1 0 8.5 8.6	3.68	
23		9.30 0 0 9.3 9.3	3.71	
24		9.70 0 0 9.7 9.7	3.74	
25		9.75 0 1 9.8 9.7	3.73	
26		9.95 1 0 9.9 10.0	3.71	
27		± .	.	
29				

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1916phae.proj.10770

Monday September 25, 1916.

Scale m. B Series 56.

	B 45634 g			C 12. h		Diff Lon
	rc 1	rc 2		rc 1	rc 2	
1	5.6 5.4	580	22	6.0 5.8		0.80
2	6.3 6.1	630	00	6.3 6.1		0.69
3		t.p.		6.6 6.4		0.68
4		t.p.			7.21	0.36
5		6.1			7.4	
6		t.p.			7.8; poor	0.42
8		t.p.			t.p.	"
9		t.p.			8.1	0.31
11		9.7	9.45	32	9.21	-0.14
12		10.0	9.90	11	9.8	-0.29
14		f.			f.	"
16						
17						
18						
20						
21						

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Monday September 25, 1916.

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Scalum.

D Series 56.

Alt Corr +.05

B 45635 16.7K. 32h 25m

	Pc.1	Pc.2	Pc.2	Cw.		Diff'l mn. g pc.2	t pc.2			Pc. pc.2	
	4.1										
1	3.89			3.84	7.94	th.	1.6	0.47	8.07	9.7	−1.55 8.15
	5.0										
2	4.8	5.1	5.05 0 1	3.81	8.86	th.	8.4	0.29	8.69	10.1?	−1.55 8.55 ?
	6.1					9.85 0 1					
3	5.9	6.3	6.20 1 1	3.65	9.85	9.8	9.9	−0.21	9.64		
	6.0					9.95 1 0					
4	5.8	6.2	6.10 1 1	3.66	9.76	9.9	10.0	−0.29	9.66		
	6.7										
5	6.5	6.8	6.75 1 0	3.60	10.35	f	f.	.	.		
6		7.5		3.56	11.06						
7		7.7		3.56	11.26						
8		7.7		3.56	11.26						
9		8.1		3.55	11.65						
		8.40 0 0									
10		8.4	8.4	3.55	11.95						
		8.50 0 0									
11		8.5	8.5	3.56	12.06						
		9.20 0 0									
12		9.2	9.2	3.59	12.79						
		9.55 0 1									
13		9.6	9.5	3.61	13.16						
		10.05 1 0									
14		10.1	10.0	3.65	13.70						
15		M.S.		.	.						

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1916phae.proj.10770

Monday September 25, 1916.

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Scale m.

B Series 56.

Abt Corr. +01

B 45 636 186 K 22 45-449°

	pc.1	pc.2		Cw.		Diff Inv. pc.2	sc.2	Cw		pc. pc.2		
	3.6					7.30	1.1					
1	9.4			3.79	7.39	1.2	1.4	0.52	7.82	8.9	− 1.53	7.37
	3.8					7.55	1.0					
2	3.6			3.81	7.61	1.5	7.6	0.48	8.03	9.3	− 1.54	7.76
	4.9					8.60	0.0					
3	4.7	4.8	485 1.0	3.82	8.67	8.6	8.6	0.22	8.82	10.0	− 1.55	8.45
	5.7					9.10	0.0					
4	5.1	5.1	580 1.1	3.61	9.41	9.1	9.1	0.09	9.19	n.s.	,	.
	6.0					9.65	1.0					
5	5.8	6.1	6.05 0.1	3.68	9.73	9.7	9.6	− 0.12	9.53			
	7.1											
6	6.9	7.1	7.10 0.0	3.58	10.68	″	″	,	,			
7		7.3		3.57	10.87							
8		7.8		3.55	11.35							
9		8.1		3.55	11.65							
		8.30	0.0									
10		8.3	8.3	3.55	11.85							
		8.85	0.1									
11		8.8	8.9	3.57	12.42							
		9.20	0.0									
12		9.2	9.2	3.59	12.79							
		9.40	0.0									
13		9.4	9.4	3.60	13.00							
		9.90	0.0									
14		9.9	9.9	3.64	13.54							
15		n.s.	m.	,	,							

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Cofried B 34:90

Scale M. B series 56 Alt Cor -.09

B 45637 199K. 22 59-60

	sc.1	sc.2		Cw.		Diff. Im. sc.1	sc.2	Cw.		sc.2	
	4.3										
1	4.1			384	8.14	tf. 1.8		0.43	8.23	9.5	-1.54 7.96
	4.8					8.45 1 0					
2	4.6			383	8.63	8.5	8.4	0.29	8.74	10.0	-1.55 8.45
	4.9 4.1						8.80 0 0				
3	~~3.8~~ w.s.	5.1	5.00 L 1	381	8.81	8.8	8.8	0.19	8.99	tf.	. .
	5.7			4			9.15 0 1				
4	5.5	5.1	5.70 0 0	383	9.43	9.2	9.1	0.04	9.19	w.s.	. .
	6.6										
5	6.4	6.6	6.60 0 0	362	10.22	tf. 1.0		-0.32	9.68		
6		7.4		356	10.96	w.s. w.s.		.	.		
7		7.3		356	10.86						
8		8.6		355	11.15						
9		8.4		355	11.65						
10		8.1		355	11.65						
11		8.2		355	11.75						
		8.55 1 0									
12		8.5 8.6		356	12.21						
		8.70 0 0									
13		8.1 8.1		356	12.26						
		9.20 0 0									
14		9.21 9.21		359	12.79						
		9.45 0 1									
15		9.4 9.5		360	13.05						

Remeas. Apr. 5, 18.

1.8

8.1

8.1

8.3

No error in prev. meas. 9 & 10 appear to be half way between 8 and 10. Disc. prob. due to scale.

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Monday, September 25, 1916.

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Scale M. B series 56. Att Cour +05

B 75 638 163 K. 73 23-30.0

						g	h				O.C.
	sc 1	sc 2	sc 2	Cw.		sc 2	sc 2				sc 2
1	5.2 (5.4)	5.3	5.35 01	3.78	9.13	9.00 11 8.9	9.1	0.02	9.12		m.s.
2	6.1 (6.3)	6.3	6.30 00	3.64	9.94	9.85 01 9.8	9.9	0.22	10.07		
3	6.6 (6.8)	6.9	6.85 01	3.60	10.45	‡	‡	.	.		
4	6.1 (6.9)	6.9	6.90 00	3.60	10.50	‡	‡	.	.		
5		7.5		3.56	11.06						
6		7.1		3.55	11.25						
7		8.0		3.55	11.55						
8		8.1		3.55	11.65						
9		8.3		3.55	11.85						
10		8.1	8.95 10	3.56	12.26						
11		8.9	9.0 9.05 10	3.59	12.54						
12		9.1	9.0 9.20 00	3.59	12.64						
13		9.2	9.2 9.50 00	3.59	12.79						
14		9.5	9.5 10.05 01	3.61	13.11						
15		10.0	10.1	3.65	13.70						

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Monday September 25, 1916.

Scale M. B Series 56.

B 45639 C12. 73 + 15

	Sc 1	Sc 2	Diff	Sc 2 P.C.
	3.3			
1	3.1		3.30	8.2 _ 1.60
	3.7			
2	3.5		3.29	8.4 _ 1.41
3	t f.		.	8.8 _ 1.52
	3.7			
4	3.5		3.86	9.2 _ 1.64
	4.1			
5	3.9		3.74	9.5 _ 1.66
	4.3			
6	4.1		3.92	9.6 _ 1.38
8	t f.		.	9.8 _ 1.20
	5.0			
9	4.8	5.1	5.05 01 3.96	f. .
	5.4			
11	5.2	5.4	5.40 00 3.91	m.s. .
	5.7			
12	5.5	5.7	5.70 00 3.91	
	6.3			
14	6.1	6.3	6.30 00 3.61	
	7.0			
16	6.8	6.9	6.95 01 3.43	
17		7.1		3.55
17a		7.3		3.78
18		7.7		3.60
		8.45 1 0		
20		8.5 8.4		3.445
		8.70 1.1		
21		8.6 8.8		3.53
		9.45 01		
23		9.4 9.5		3.56
		9.90 00		
24		9.9 9.9		3.54
26		f f.		.
27		m.s.		.
29				

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Salem. B series 56.

B 45 639 C 12

g h

	sc.1	sc.2		sc.1	sc.2	
	6.0			6.1		
1	5.8	6.05	01	5.9		0.55
	6.4			6.3		
2	6.2	6.35	01	6.1		0.64
3	tf.			tf.		"
				7.0		
4	tf.			6.8		0.56
5		7.2	7.30 11		7.4	0.54
6		tf.			tf.	"
8		tf.			tf.	"
9		tf.			8.8	0.21
11		9.4	9.35 01		9.3	-0.04
12		9.9	9.80 11		9.1	-0.19
14		f			f.	"
16						
17						
18						
20						
21						

12.10

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Tuesday September 26, 1916.

Scale m

B Series 56.

10:15 B45639 012—

		pc 1	sec 2		sec 2
1	B.		.		81 — 1.50
2	B.		.		8.5 — 1.51
3	3.8 3.6		3.48		8.9 — 1.42
4	tfr.		.		9.2 — 1.64
5	4.0 3.8		3.84		9.5 — 1.66
6	4.8 4.6		3.42		9.6 — 1.38
8	tfr.		.		9.7 — 1.10
9	5.1 4.9	5.3	5.20 1	3.81	t. .
11	5.7 5.5	5.5	5.60 1	3.71	
12	5.8 5.6	5.8	5.80 0	3.81	
14	6.5 6.3	6.2	6.35 1	3.56	
16	6.9 6.1	7.1	7.00 1	3.38	
17		7.1		3.55	
17a		7.5		3.58	
18		7.8		3.50	
20		8.4		3.50	
21		8.55 1 2 8.9 8.4		3.78	
23		9.45 0 1 9.7 9.5		3.56	
24		9.75 1 0 9.9 9.8		3.69	
26		10.05 1 0 10.1 10.0		3.61	
27		m.s		.	
29					

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Tuesday September 26, 1916.

Scale m. B series 56.

B45639 C12 23+15 Diff. Im.

	g sc.1	g sc.2	h sc.1	h sc.2	
1	tf.		60 5.8		0.60
2			6.4 6.2		0.59
3			6.7 6.5		0.58
4				7.3	0.26
5		t.f.		7.5	0.34
6				t.f.	.
8				t.f.	.
9				8.1	0.31
11		t.f.		9.2 9.3 92501	0.06
12				9.8 9.7 97501	-0.14
14		f.		f.	
16					
17					
18					
20					
21					
23					
24					
25					

g images too poor for comparison with prade.

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Scale m. B Series 56. Alt Corr + .06

B 45640 139 K.

	sc 1	sc 2		Cu.		Diff Im. g sc 2	h sc 2			gc sc 2		
1	3.8 3.6			3.73	7.53	7.30 1 1 7.2	7.4	0.28	7.58	9.3	−1.62	7.68
2	5.0 5.0 4.8 4.8	5.3	5.2 5121 121	3.60	8.72	8.60 0 0 8.6	8.6	0.14	8.74	1.	.	.
3	5.7 5.5	5.1	5700 0	3.56	9.26	9.20 0 0 9.2	9.2	0.05	9.25	m.s.	.	.
4	6.9 6.7	7.0	695 10	3.48	10.43	m.s.	m.s.	.	,			
5		7.5		3.44	10.94							
6		7.6		3.43	11.03							
7		7.6		3.43	11.03							
8		8.21		3.43	11.63							
9		8.1 5 m.s.		3.43	11.93							
10		8.8 8 0 0 8.8		3.45	12.25							
11		9.3 9.35 1 0 9.4		3.48	12.83							
12		9.7 9.80 1 1 9.9		3.50	13.30							
13		10.0 10.05 0 1 10.1		3.50	13.55							
14		1. 1.		.	,							
15		m.s.		.	,							

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Scale m. B Series 56. Alt Corr -10

B 4865 41 D 11 -

	sc.1	sc.2	sc.2	Cu.	Magn	P.C. sc.2		
1						8.8	-1.56	7.24
2	B.		.	.		9.21	-1.59	7.61
3	B		.	.		9.4	-1.62	7.78
4	3.8 3.6			373	7.53	9.3	-1.62	7.68
5	3.8 3.6			3.73	7.53	9.5	-1.62	7.88
6	3.7 3.5			375	7.45	9.1	-1.62	8.08
7	4.3 4.1			368	7.98	9.1	-1.62	8.08
8	B.		.	.		9.4	-1.62	7.78
9	4.0 3.8			3.70	7.70	10.0	-1.61	8.39
10	4.5 4.3			365	8.15	10.0	-161	8.39
11	4.5 4.3			365	8.15	〃	〃	〃
12	4.6 4.4	4.4	450	1 1	3.65	8.15	〃	〃
13	5.2 5.0	5.4	530	2 1	3.59	8.89	n.s.	〃
14	5.8 5.6	5.8	580	0 0	3.55	9.35		
15	6.4 6.2	6.3	635	0 1	3.51	9.86		
16	6.6 6.4	6.3	645	2 1	3.51	9.96		
17	6.7 6.5	6.4	655	1 2	3.50	10.05		
18	6.7 6.5	6.7	670	0 0	3.49	10.19		
19	7.1 6.9	6.9	700	1 1	3.56	10.46		
20	7.0 6.8	6.8	690	1 1	3.48	10.38		
21		7.2		346		10.66		
22		7.2		3.46		10.66		
23		7.5		3.44		10.94		
24		7.4		344		10.84		
25		7.9		343		11.33		
26		8.1		343		11.53		

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Scale m.

B Series 56-

B45641 D11 cont. 21-15

	sec?	sec?	Cu.	
27	8.4		3.43	11.83
28	8.6		3.44	12.04
29	8.7		3.45	12.15
30	9.1		3.46	12.56
31	9.50	1/		
	9.6	9.4	3.49	12.99
	9.40	00		
32	9.4	9.4	3.47	12.87
	9.65	01		
33	9.6	9.7	3.49	13.14
	9.75	10		
34	9.7	9.8	3.50	13.25
35	".	".	,	,
36				

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Scale m.

B Series 56.

B 4564 ~~H6K~~ D11 Diff. Im.

	g		h		~~Diff. Im.~~	
	pc.1	pc.2	pc.1	pc.2	Cu	pc.2
1	tf.		6.8 6.6? hom		0.32	7.12
2	.		tf.		.	.
3		.	tf.		.	.
4		.		7.6	0.26	7.86
5		.		7.6	0.26	7.86
6		.		7.7	0.25	7.95
7		.		7.8	0.23	8.03
8		.		7.5	0.27	7.77
9		tf		8.21	0.20	8.40
10		8.4	8.40 00	8.4	0.17	8.57
11		8.6	8.60 00	8.6	0.14	8.74
12		9.1	8.95 12	8.8	0.09	9.04
13		9.4	9.30 11	9.21	0.03	9.33
14		9.7	9.55 12	9.4	0.00	9.55
15		10.0	10.00 00	10.0	-0.07	9.93
16		10.0	9.95 01	9.9	-0.06	9.89
17		m.s.		m.s.	.	.
18						

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Scale m.

B Series 56. Alt Corr +.07

B 4564 2 11612. O 14-148°

	sc 1	sc 2		Cu.		Diff'ln. sc 1	Diff'ln. sc 2			P.C. sc 2	
	4.9						8.10 00				
1	4.7	4.9	4.90 00	3.61	8.51	8.1	8.1	0.20	8.30	10N	-.161 8.39
2	5.6 5.4	5.6	5.60 00	3.57	9.17	8.6	8.60 00 8.6	0.14	8.74	m.s.	, ,
3	6.1 5.9	5.8	5.95 1.2	3.54	9.49	10.0	9.95 0.1 9.9	-.006	9.89		
4	6.4 6.2	6.3	6.35 0.1	3.52	9.87	m.s.	m.s.	,	,		
5		1.5		3.44	10.94						
6		8.20 1.1 8.3	8.1	3.43	11.63						
7		8.90 00 8.9	8.9	3.45	12.35						
8		9.60 00 9.6	9.6	3.49	13.09						
9		10.05 1.0 10.1	10.0	3.50	13.55						
10		m.s.	m.s.	,	,						
11		m.s.		,	,						
12		m.s.		,	,						
13											
14											
15											

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Scale m. B Series 56. Alt Corr + 05

B 45643 140 K 0 02-29.6

	sc.1	sc.2		Cw.		Diff. sc.2	Im. sc.2			P.C. sc.2		
1	B.											
2	3.8 (4.0 3.6)	B.	3.90	1.1	3.72	7.662	th. 1.4	0.27	7.67	8.1	− 1.54	7.16
3	B. (4.1 3.9) 3.4	4.0	4.00	1.1.0	3.70	7.70	1.4 (7.35 0.1) 1.3	0.28	7.63	9.1	− 1.58	7.52
4	(6.1) 5.9	6.1	6.10	0.0	3.54	9.64	9.4 (9.40 0.0) 9.4	0.02	9.42	m.s.	,	,
5	(6.8) 6.6	6.8	6.80	0.0	3.49	10.29	10.1? th.	− 0.08	10.02?			
6	(7.0) 6.8	7.0	7.00	0.0	3.47	10.47	m.s. m.s.	,	,			
7		7.8			3.43	11.23						
8		7.8			3.43	11.23						
9		7.9			3.42	11.32						
10		8.4			3.43	11.83						
11		8.6			3.44	12.04						
12		8.1 (8.65 1.0) 8.6			3.44	12.09						
13		8.8 (8.85 0.1) 8.9			3.45	12.30						
14		9.2 (9.25 0.1) 9.3			3.47	12.72						
15		9.7 (9.75 0.8) 9.8			3.49	13.24						

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Scale m.

B Series 56.

Alt Cou. to 03

B 45644 164K. 0 39-46

	pc.1	pc 2		Cu.		g h pc1 pc2			Oc. pc2
1	3.3 5.1	5.2	5.25	10 3.60	8.85	h. 8.1 9.20 0 0	0.12	8.82	m.s
2	5.6 5.4	5.4	5.50	1 1 3.58	9.08	9.2 9.2	0.04	9.24	m.s.
3	5.6 5.4	5.5	5.55	0 1 3.57	9.12	9.25 0 1 9.2 9.3	0.04	9.25	
4	6.5 6.3	6.6	6.55	1 0 3.50	10.05	10 0 1	−0.06	9.94	
5		7.5		3.44	10.94	m.s m.s.	.	.	
6		7.6		3.43	11.03				
7		7.6		3.43	11.03				
8		8.1		3.43	11.53				
9		8.5		3.44	11.94				
10		8.6		3.44	12.04				
11		9.00 1 1 8.9 9.1		3.46	12.46				
12		9.30 1 1 9.4 9.21		3.47	12.77				
13		9.70 0 0 9.7 9.7		3.49	13.19				
14		9.95 1 0 9.9 10.0		3.50	13.45				
15		m.s. m.s.		.	.				

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Tuesday September 26, 1916.

Scale m. B Series 56.

B4564 5 C1. 1+15

	sc.1	sc 2	sc 2		Diffr g h sc 2	sc 2	C.C. sc 2
	3.3				7.25 0		
1	3.1			388	1.4	1.3 −0.07	8.8 − 1.62
2	tf.			.	7.35 1.0		
					1.3	1.4 0.04	8.9 − 1.51
3	tf.			.	7.40 0.0		
					1.4?	1.4 0.10	9.2 − 1.70
4	tf.			.	tf.	tf. .	9.8 − 1.84
	5.0						
5	4.8	5.1	5.05 0 1	328	tf.	8.3 0.03	ℓ. .
from 1a	5.3	5.7	tf.		tf.	8.1 0.16	
9	5.8	5.6	5.70 1 1	358	9.25 1.0		
	6.3				9.3	9.2 0.03	
11	6.1	5.8	6.0 6.03 3 2 0	366	tf.	9.1 −0.01	
12	6.6	6.4	6.6 6.60 0 0	342	tf.	10.0 0.02	
13a		7.3		314			
14		7.5		312	tf.	tf ℓ .	
15		7.8		324	m.s.	m.s. .	
16		8.1		310			
		8.30	0 0				
17		8.3	8.3	320			
		8.65	1 0				
18		8.1	8.6	329			
18a		8.6	8.65 0 0	.			
19		8.8	8.80 8.8	341			
		9.40	1 1				
20		9.5	9.3	322			
		9.60	0 0				
21		9.6	9.6	329			
21a		9.9	9.95 1 0	340			
24		ℓ.	~~m.s.~~	ℓ.			
25		m.s.					

Sequence not in Center of plate.

11:50

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1916phae.proj.10770

Tuesday October 3. 1916.

Sheet 135

Scale m
11 20

B Series 53.

B 45591 C 11.

	RC.1	RC.2		Diff	O.C. RC 2
1	B.			,	8.2 — 1.39
2	3.8 / 3.2			4.08	8.5 — 1.42
3	3.0 / 3.3			4.47	8.8 — 1.13
4	3.1 / 3.8			4.61	9.1 — 1.19
5	3.6 / 3.9			4.50	9.6 — 1.30
6	3.1 / 4.8	B.		4.56	9.87 — 1.24
7	4.6	4.8	480 00	4.03	m.s. ,
8	4.9 / 4.1	4.8	485 10	4.18	m.s. ,
10	5.1 / 4.9	5.2	515 10	4.30	
12	5.7 / 5.5	5.9	580 11	4.05	
14	6.9 / 6.1	6.2	625 10	3.72	
15	6.6 / 6.4	6.6	660 00	3.80	
16	7.0 / 6.8	6.9	695 01	3.75	
17		7.3		3.72	
20		7.7		3.69	
23		8.5 / 850 00	8.5	3.36	
24		8.7 / 870 00	8.7	3.70	
25		8.8 / 895 01	9.1	3.62	
26		9.5 / 950 00	9.5	3.40	
27		9.6 / 955 01	9.5	3.59	
28		9.9 / 985 10	10.0	3.44	
29		1		,	
30		1		,	

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Tuesday October 3, 1916.

Salem.

B Series 53.

	B 45591		C 11 -		Diff. In.
	q		h		
	sc. 1	sc. 2	sc. 1	sc. 2	
1	5.7 5.5	5.80 L1	5.9 5.1 6.3		1.01
2	tfr.		6.1		0.78
3	7.1	7.10 00	7.1		0.57
4	7.3	7.35 L0	7.4		0.56
5	tfr.		7.8		0.50
6	tfr.		7.7		0.76
7	tfr.		8.2		0.63
8	tfr.		8.5		0.53
10	9.3	9.25 10	9.2		0.20
12	9.9	9.90 00	9.9		-0.05
14	f		10.0		-0.03
15	m.s.		m.s.		

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Tuesday October 3, 1916 -

Copied B 34: 54

Iola M.

B Series 53. Alt Corr +06

B
~~M~~ 45592 16 7 K. 22 h 25 - 29.5 +03

	pc.1	pc.2	pc.3	Cw.	Magn	Diff. Inm. pc.2	pc.3	Cw.		Oc. pc.2	
1	tf.	tf.		.	.	tf.	7.7	0.58	8.28	9.4 – 12.1	8.19
2	tf. 6.1	tf.		.	.	tf.	8.2	0.59	8.79	9.8 – 12.2	8.58
3	5.9 6.4	6.1	6.10	00	3.80	9.90	9.55 ± 0 9.6	0.39	9.94	n.s.	.
4	6.2 6.8	6.3	6.35	0 ±	3.78	10.13	tf. 9.6 0	0.38	9.98		
5	6.6	6.9	6.85	01	3.74	10.59	10.00 10.2	0.24	10.24		
6		7.4			3.70	11.10	h.s.	h.s.	.	.	
7		7.7			3.70	11.40					
8		7.7			3.70	11.40					
9		8.0	8.25	01	3.70	11.70					
10		8.2	8.3	8.40 00	3.70	11.95					
11		8.4	8.4	8.95 ± 0	3.70	12.10					
12		8.9	9.0	9.10 00	3.71	12.66					
13		9.1	9.1	9.70 00	3.71	12.81					
14		9.4	9.1		3.74	13.44					
15		tf.	tf.		.	.					

Bright stars show slight trail.

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Tuesday October 3, 1916.

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Scale m. B series 53- Alt Cor +07

B 45593 138 K.

	pc.1	pc.2	pc.3	Cu.	Magn	Diff. Inv. pc.3	Diff. Inv. pc.2			P.C. pc.2
01	B 5.0	B.		.	.	+f. 8.45 1.0	6.8	0.68	7.48	8.5 – 1.18 7.32
02	4.8	5.2	5.10 ± 1	3.90	9.00	8.5	8.4	0.57	9.02	f . .
03	6.4 6.6	6.8	6.70 ± 1	3.74	10.44	f	f	.		m.s. . .
04	6.8 7.0	7.3	7.15 ± 1	3.72	10.87					
05		7.6		3.70	11.30					
06		7.7		3.70	11.40					
07		7.9		3.70	11.60					
08		8.40 ± 1 8.3	8.5	3.70	12.10					
09		8.70 0.0 8.7	8.7	3.71	12.41					
010		8.95 0.1 9.0	8.9	3.71	12.66					
011		9.35 ± 0 9.3	9.4	3.73	13.08					
012		10.05 1.0 10.1 ?	ff	3.76	13.81					
013		m.s. (10.0)		.	.					
014										
015										

Note on plate cover says "Seq. for 138K already selected on MC 3938. Only orig. sequence ~~plate~~ measured on this pl."

~~This is not the original sequence selected on MC plate. For re-measures with Original sequence, see 024: 198~~

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Tuesday October 3, 1916.

Copied B 34:78

Scale m. B Series 53. Alt Corr +02

B 4559 4 186 K.

	Pc.1	Pc.2	Cu.	Magn	Diffr. Inn. J h	Cu.		Pc.2	
1	B		.		tf. 7.2	0.60	7.80	89	-1.30 7.70
2	B.	B.	.		tf. 7.5	0.58	8.08	9.1	-1.20 7.90
3	5.0? from 5.2	5.30 5.4 ! '	3.88	9.18	8.4 8.40 0 0	0.57	8.97	10.1?	-1.22 8.88?
4	5.6 5.8	tf.	3.81	9.61	tf. 8.1	0.54	9.24	n.s.	. .
5	6.0 6.2	6.1 6.15 0 1	3.79	9.94	tf. 9.3 10.10 0 0	0.45	9.75		
6		7.2	3.71	10.91	10.1 10.1?	0.21	10.31		
7		7.4	3.70	11.10	h.s. n.s.	.	.		
8		7.7	3.70	11.40					
9		7.9	3.70	11.60					
10		8.1 8.70 0 0	3.70	11.80					
11		8.1 8.1 8.95 1 0	3.70	1240					
12		8.9 9.0 9.10 1 1	3.71	12.66					
13		9.0 9.2 9.50 1 1	3.71	12.81					
14		9.4 9.6 10.00 0 0	3.73	13.23					
15		10.0 10.0	3.75	13.75					

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Tuesday October 3, 1916.

Scale m. B Series 53.

B 45596 C 12.

	pc.1	pc.2			Diff. Im. g pc.	h pc.		P.C. pc.
1	B.			.	tfr.	6.21	0.40	1.8 – 1.20
2	B.			.	tfr.	tfr.	.	8.2 – 1.21
3	tfr.			.	tfr.	6.3	0.98	8.4 – 1.12
4	tfr.			.	tfr.	6.1	0.86	8.8 – 1.24
5	4.0 3.8			3.84	tfr	1.4	0.44	9.0 – 1.16
6	4.6 4.4			3.62	tfr.	1.6	0.62	9.6 – 1.38
8	tfr.	B.		.	tfr	tfr.	.	9.*6 – 1.00
9	5.2 5.0	5.4	5.30	1 3.71	tfr.	tfr.	.	ms. .
11	5.7 5.5	5.5	5.60	1 1 3.71	tfr.	8.1	0.61	
12	5.8 5.6	5.1	5.75	0 1 3.86	tfr.	9.0	0.61	
14	6.1 5.9	6.1	6.10	0 0 3.81	9.60	1 1 9.5	0.31	
16	6.8 6.6	6.1	6.75	0 1 3.63	f	*10.0?	0.38	
17	7.1 6.9	6.9	7.00	1 1 3.65	ms	ms.	.	
17a		7.3		3.78				
18		7.1		3.60				
20		8.1		3.80				
21		8.4	8.35	0 1 8.3 3.88				
23		9.1	9.05	1 0 9.0 3.96				
24		9.5	9.50	0 0 9.5 3.94				
26		9.5	9.50	0 0 9.5 4.16				
27		10.0	10.00	0 0 10.0 4.01				
29		m.s.		.				

12 20

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Wednesday October 4, 1916.

Sheet 135

Scale m. 9:37

B Series 136

B 46552 C8 15 + 15°

P.C.

	sc.1	sc2	sc?	Diff.	sc2
	3.8				
1	3.6			3.40	8.6 − 1.40
	4.8				
3	4.6			3.29	9.2 − 1.11
If near centre	4 B.	5.7		.	8.8 − 1.08
6a	5.4	5.4	5.40 0 0	3.39	9.1 − 0.91
8	5.3	5.5	5.50 0 0	3.47	10.2? − 1.23
	5.7				
9	5.5	5.7	5.70 0 0	3.52	m.s. .
	6.2				
11	6.0	6.3	6.25 0 1	3.26	
	6.5				
12	6.3	6.6	6.55 1 0	3.20	
	6.8				
14	6.6	6.7	6.75 0 1	3.22	
	7.0 7.1		7.15 2 1 0		
15	6.8 6.9	7.3	7.2	3.21	
	7.1 7.2		7.05 2 1 1		
16	6.9 7.0	7.1	7.1	3.24	
18		7.4		3.28	
20a		7.7		3.52	
21		8.1		3.32	
22		8.3		3.52	
25		8.7	8.85 0 1	3.56	
25a		9.2	9.1	3.52	
26		9.0	9.05 0 1	3.68	
			9.25 0 1		
27		9.2	9.3	4.06	
27a		9.7		3.98	
28		def.	def?	.	
30		f	f.	.	
31		f		.	
33					

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Wednesday October 4. 1916.

Salem. B Series 136 -

B 46552 C8 - Diff. Inn.

	g sc.1	g sc.2		h sc.1	h sc.2	Diff
1		tfr.			1.3	0.10
3		tfr.			19	0.19
4		tfr.			tfr.	
6a	4	8.3	8.30 00		8.3	0.49
8		8.6	8.60 00		8.6	0.37
9		8.6			tfr.	0.62
11		9.21	9.15 01		9.1	0.36
12		9.5	9.45 10		9.4	0.30
14		9.5	9.45 10		9.4	0.52
15		7			15.0	0.36
16		7			10.0?	0.52
18		n.s.			n.s.	.
21						
22						
25						
26						
27						

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Salem.

B Series 136.

Alt Corr −08

B 46553 195 K 14 58-60.

	pc.1	rc.1	pc.2	Cu.	Magn	Diff'd m. 9 pts pc.2	rc.2			P.C. rc.2
1	4.6 4.4	4.9	4.65 0 1	3.34	7.99	8.35 0 1 8.4	8.3	0.31	8.66	9.4 − 1.11 8.29
2	5.4 5.2	5.5	5.45 0 1	3.32	8.77	8.60 0 0 8.6	8.6	0.35	8.95	f. . .
3	5.9 5.1	6.2	6.05 1 2	3.31	9.36	9.15 1 0 9.1	9.2	0.41	9.56	ms. . .
4	6.8 6.6	6.8	6.80 0 0	3.31	10.11	9.80 0 0 9.8	9.8	0.46	10.26	
5	7.1 6.9	7.1	7.10 0 0	3.33	10.43	f	f.	.	.	
6		7.3		3.34	10.64					
7		7.6		3.37	10.97					
8		7.5	7.6	7.55 1 0	3.36	10.91				
9		7.8		3.38	11.18					
10		8.1		3.41	11.51					
11		8.3		3.44	11.74					
12		8.4		3.47	11.87					
13		8.7	8.70 0 0	8.7	3.53	12.23				
14		9.1	8.95 1 2	9.8	3.61	12.56				
15		9.5	9.45 1 0	9.4	3.74	13.19				
16		9.8	9.80 0 0	9.8	3.88	13.68				

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Wednesday October 4. 1916. Copied B 34:47

Pulsum- B series 136. Alt Corr +06

B 4655 f 155 K. 15 27 -

	pc.1	pc.2	pc.2			Diff. Im. pc.2			P.C. pc.2
1	5.56 5.4	5.5	5.55 0 L	3.32	8.87	9.00 1 L 9.1	8.9	0.40	9.40 n.s.
2	6.4 6.2	6.5	6.45 0 1	3.30	9.75	9.70 0 0 9.1	9.1	0.46	10.16
3	6.6 6.4	6.8	6.70 L 1	3.31	10.01	10.0	10.0	0.46	10.46
4		7.4		3.34	10.74	n.s.	n.s.	.	.
5		7.6		3.37	10.97				
6		7.8		3.38	11.18				
7		8.21		3.42	11.62				
8		8.4		3.47	11.87				
9		8.6		3.51	12.11				
10		8.55 L 0 8.5	8.6	3.50	12.05				
11		9.00 L 1 8.9	9.1	3.63	12.63				
12		9.20 L 1 9.1	9.3	3.68	12.88				
13		9.50 0 0 9.5	9.5	3.78	13.28				
14		9.90 0 0 9.9	9.9	3.64	13.54				
15		10.00 0 0 10.0	10.0	.	.				

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Thurs
~~Wednesday~~ October 5, 1916.

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Scale m

B Series 136 Alt Com +06

B 4655 Carte 15h - 31.5°.

	pc 1	pc 2	pc 3	Cu.	Magn				
1	B			.	.				
2	B			.	.				
3	3.6			3.40	7.20				
4	4.5	B.		3.34 (3.64)	8.04	8.34			
5	5.0	5.3	5.25 0 1	3.32 (3.60)	8.57	8.85			
6	5.7	5.9	5.90 0 0	3.31 (3.56)	9.21	9.46			
7	6.5	6.7	6.70 0 0	3.31 (3.51)	10.01	10.21			
8		7.3		3.34 (3.50)	10.64	10.80			
9		7.5		3.36 (3.50)	10.86	11.00			
10		8.0		3.40 (3.51)	11.40	11.51			
11		8.1	8.3 8.20 1 1	3.42 (3.52)	11.62	11.72			
12		8.5	8.4 8.45 1 0	3.48 (3.53)	11.93	11.98			
13		8.8	8.6 8.70 0 1	3.54 (3.54)	12.24	12.24			
14		8.9	8.9 8.90 0 0	3.60 (3.57)	12.50	12.47			
15		9.1	9.8 9.75 1 0	3.85 (3.64)	13.60	13.39			

Red. for Lunar Corona

g h

	pc 1	pc 2		Cu	Magn	pc 2		Cu.	Ma
	t.f.	5.1 (5.3)	33	.	.	6.9	.	.	.
	6.2 (6.4)	t.f.		.	.	8.4	.	.	—1.27
pc 2	pc 3								
1.3	1.3 (1.30 0 0)			0.14	7.44	0.31	7.6, 8.8	— 1.17	7.63 — 1.21
8.3 (8.25 1 0)	8.2			0.30	8.55	0.34	8.59 9.1	— 1.11	8.59 — 1.00
8.8 (8.80 0 0)	8.8			0.38	9.18	0.31	9.1	.	.
9.2 (9.25 0 1)	9.3			0.41	9.66	0.29	9.54		
10.0?	?			0.46	10.46	?	.		
n.s.	n.s.			.	.				

All images slightly elongated.

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Thursday October 5, 1916.
~~Wednesday~~

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Scale M. B Series 136. Alt Corr = 0.

B 46 556 Carte 15h -51.5.

Diffraction. P.C.

	Magn		sc.1	sc.2	sc.7	Cu.	Magn	g h	Cu.	Magn	sc.	Cu.	Magn
		1	B.					540 00 sc.1 54 5.2			4.5		
	7.13	2	3.5 3.3			3.42 .	6.92	tf. tf. sc.2 sc.2			8.4	.127	7.13
	7.59	3	4.7 4.0			3.38 3.69	7.58 7.89	7.1 tf.	0.11 0.29	7.21 7.39	8.8	1.18 1.21	7.03 7.59
	8.70	4	5.7 5.0	5.3	5.25 0	3.32 3.60	8.57 8.85	tf. 8.1	0.28 0.34	8.38 8.44	9.8	1.10 1.08	8.70 8.82
		5	5.4 5.2	5.5	5.45 0	3.32 3.60	8.77 9.05	840 00 8.4 8.4	0.32 0.32	8.72 8.72	10.0	1.09 1.03	8.91 9.07
		6	6.3 6.1	6.2	6.25 1.0	3.31 3.53	9.56 9.78	965 1.0 9.1 9.6	0.46 0.24	10.11 9.89	m.s.		
		7	6.9 6.7	7.1	7.00 L	3.33 3.50	10.33 10.50	ms ms.					
		8		7.3		3.34 3.50	10.64 10.80						
		9		7.4		3.34 3.50	10.74 10.90						
		10		7.6		3.37 3.50	10.97 11.10						
		11		8.1		3.41 3.51	11.51 11.61						
		12		8.2		3.42 3.51	11.62 11.71						
		13		840 00 8.4	8.4	3.47 3.52	11.87 11.92						
		14		865 1.0 8.7	8.6	3.53 3.53	12.18 12.18						
		15		880 L1 8.7	8.9	3.57 3.55	12.37 12.35						
		16		935 0.1 9.4	9.3	3.71 3.60	13.06 12.95						
		17		955 0.1 9.6	9.5	3.79 3.62	13.84 13.17						

Red. for mir. diam.

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Thursday October 5, 1916.

Sheet 136

Scale m.

B Series 136.

B 46557 C8 15 + 15

P.C.

	ec.1	ec.2				po 2
1						8.5 — 1.30
3	4.7 4.5				3.39	9.3 — 1.21
4	B.					8.9 — 1.18
6a	5.0 4.8				3.79	9.1 — 0.91
8	5.3 5.1	5.4	5.35	1.0	3.62	
9	5.7 5.5	5.1	5.70	0 0	3.52	
11	5.9 5.1	5.8	5.85	1.0	3.66	
12	6.3 6.1	6.21	6.25	1.0	3.50	
14	6.3 6.1	6.4	6.35	1.0	3.62	
15	7.0 6.8	6.8	6.90	1.1	3.46	
16	7.1 6.9	7.0	7.05	1.0	3.47	
18		7.4			3.28	
20a		7.6			3.62	
21		7.9			3.52	
24		8.3			3.52	
25		8.7			3.56	
25a		9.20 9.2	9.20	0 0	3.47	
26		9.2 9.3	9.25	0 1	3.48	
27		9.1 9.5	9.60	1.1	3.71	
27a		10.0 10.0	10.00	0 0	3.68	
28		↓ ↓				
30		n.s.				
31						

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Thursday October 5, 1916.

Salem. B Series 136.

	B 46557 g sc 1	sc 2	C 8 h sc 1	sc 2	15 + 15
1	th.		9.1		0.10
3	th		9.8		0.29
4	th		th.		,
6a	8.2		th.		0.59
8	8.6	8.60 00	8.6		0.37
9	8.1		th.		0.52
11	9.4	9.35 01	9.3		0.16
12	9.9	9.65 10	9.6		0.10
14	9.7	9.70 00	9.7		0.27
15	†		†		,
16	†		†		,
18					
20a					

11.15

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1916phae.proj.10770

Saturday, October 14, 1916.

Sheet 136

Scale m 9:55

B Series 178.

B47000 C10 19 + 15.

P.C.

	pc 1	pc 2		pc 2
1	B.		.	8.4 — 1.56
2	B		.	8.9 — 1.49
3	3.7 3.5		3.64	8.8 — 1.46
4	4.3 4.1		3.54	9.4 — 1.56
6	4.9 4.1	tp.	3.60	↓ .
7	4.3 4.1	4.4 4.35 ⊥ 0	3.94	9.9 — 1.61
8	5.6 5.4	5.6 5.60 0 0	3.50	n.s. ,
9	6.0 5.8	5.1 5.85 2 ⊥	3.55	
10	6.4 6.2	6.3 6.35 0 ⊥	3.34	
11	6.7 6.5	6.8 6.75 ⊥ 0	3.29	
12		1.5	2.99	
13		1.5	3.23	
15		1.9 8.55 ⊥ 0	3.27	
16		8.5 8.6	2.97	
17		8.70 ⊥ 1 8.6 8.8	3.20	
18	nearly perp.	9.35 0 1 9.4 9.3	3.00	
19		9.75 ⊥ 0 9.1 9.8	2.99	
20		9.85 0 1 9.8 9.9	3.02	
21		n.s. n.s.	,	
22		n.s.	,	
24				
25				
26				
27				

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Saturday October 14, 1916.

Scalem

B Series 178-

	B 47000		C 10	Diff'l m.
	g		h	
	sc.1 sc.2		sc.1 sc.2	
1	6.3 (6.5)	6.60 1.1	6.7 (6.5)	0.24
2	7.2	7.30 1.1	7.4	0.11
3	7.3	7.25 1.0	7.21	0.09
4	tf.		tf.	,
5	tf.		tf.	,
6	8.4	8.30 1.1	8.2	-0.01
8	9.2	9.05 2.1	8.9	0.05
9	9.6	9.60 0.0	9.6	-0.20
10	9.9	9.85 1.0	9.8	-0.16
11	ns.		ns.	,
12				
13				
15				
16				
17				
18				

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Copied B 34:124

Scale m. — B Series 178 — Alt +06

B 47001 — 46 Ks — 18 48-3 8.

Diffr. Im. — P.C.

	sc 1	sc 2		Cu.	Magn	g h	Cu.		sc 2
1	4.7 4.8 4.546	5.0 4.9	485 ± 021	3.80	8.65	8.6 8.60 00	8.6	0.01 8.61	f.
2	4.9 4.7 7.0	5.1	5.00 ± 1	3.75	8.75	9.1 9.10 00	9.1	−0.06 9.04	
3	6.8	6.8	6.90 ± 1	3.34	10.24	n.s.	n.s.	.	
4		1.5		3.23	10.73	n.s.		.	
5		8.0		3.18	11.18				
6		8.1		3.16	11.26				
7		8.5		3.13	11.63				
8		8.80 00 8.8	8.8	3.13	11.93				
9		9.20 00 9.21	9.21	3.13	12.33				
10		9.65 01 9.6	9.7	3.14	12.79				
11		9.90 11 10.0	9.8	3.15	13.05				
12	Very ft.	10.20 ± 1 10.1	10.3?	3.19	13.39?				
13									
14									
15									

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Scale m. B Series 178. Att Corr +.05

B 47002 S/R } Cor. Aust 18 54-37.1

Diff. Dm. P.C.

	sc 1	sc 2		Cw.	Magn	g	l		Cw.		sc 2	Cw.	
	34					6.7 sc. 6.8	675 L 0		34	09			
A	3.2			4.10	7.50	6.5	6.6		0.40	7.76	8.1	– 1.52	7.18
	38					sc 2							
B	3.6			4.01	7.81	7.3	7.6	7.45 L 2	0.21	7.66	9.3	– 1.56	7.74
	43												
C	4.1	B.		3.91	8.21	tf.	tf.		.	.	9.8	– 1.56	8.24
	54												
h	5.2	5.5	545 0 1	3.68	9.13	tf.	8.9		– .003	8.87	ns.	.	.
	55												
c	5.3	5.6	555 L 0	3.63	9.18	9.3	9.3	9.20 00	– .010	9.20			
	61												
a	5.9	6.1	610 0 0	3.51	9.61	10.0	10.0	10.00 00	.	.			
	63												
d	6.1	6.4	635 L 0	3.45	9.80	ns	ns		.	.			
	7.0												
d'	6.8	6.8	690 1 L	3.33	10.23								
d^2		1.2		3.29	10.49								
e		1.8	from	3.19	10.99								
			820 0 0										
e'		8.2	8.2	3.15	11.35								
			856 0 1										
f		8.6	8.5	3.14	11.69								
			885 1 0										
f'		8.9	8.8	3.13	11.98								
			930 0 0										
f^2		9.3	9.3	3.13	12.43								
g		1.	1.	.	.								
S Cor Aust.		8.6		3.13	11.73								
R " "		9.3		3.13	12.43								
1 " "		1.		.	.								

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Saturday October 14. 1916.

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Scale M-

B series 178.

Alt Cou +06

B 47003 1 KS 18 56-06

	pc.1	pc.2		Cu.	Magn	Diff. Inv. pc.2	pc.2	Cu.		O.C. pc.2	Cu.
	3.8					4.55 0.1					
1	3.6	B.		4.01	7.81	7.6	7.5	0.20	7.75	9.3 – 1.56	7.74
	5.5					9.25 0.1					
2	5.3	5.5	5.50 0.0	3.65	9.15	9.2	9.3	–0.09	9.26	n.s.	,
	7.1										
3	6.9	6.9	7.00 1.1	3.31	10.31	n.s.	n.s.	,	,		
4		7.5		3.23	10.73						
5		8.1		3.16	11.26						
			8.25 0.1								
6		8.2	8.3	3.15	11.40						
			8.60 0.0								
7		8.6	8.6	3.13	11.73						
			8.70 1.1								
8		8.8	8.6	3.13	11.83						
			9.55 0.1								
9		9.6	9.5	3.14	12.69						
			10.20 0.6								
10	Very faint.	10.2	10.2	3.19	13.39						
11		n.s		,	,						
12		n.s		,	,						
13											
14											
15											

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Scale m. B Series 178. Alt Cor +.06

B 47004 R.A. Sagitt. 19 10–33.7.

		sc.1	sc.2		Cu.		Diff. g sc.1	Diff. h sc.2	Cu.		P.C. sc.2	Cu.	
f	B				.	.	7.1	7.1	0.29	7.39 / ~~6.81~~	8.5	– 1.50	7.00
e	B.				.	.	7.1	7.1	0.29	7.39 / ~~6.81~~	8.1	– 1.51	7.19
d	3.4				4.05	7.65	7.3	7.3	0.25	7.80	8.1	– 1.51	7.19
d'	3.8				3.98	7.98	8.1	8.1	0.10	8.20	9.6	– 1.56	8.04
e	4.21	B.			3.89	8.29	8.3	8.3	0.06	8.36	9.1	– 1.56	8.14
f	4.7	4.9	4.90	00	3.80	8.70	8.6	8.6	0.01	8.61	?	.	.
g	5.4	5.5	5.55	01	3.63	9.18	9.4	9.6	– 0.12	9.38			
h	5.6	5.8	5.80	00	3.58	9.38	9.8	10.0	– 0.19	9.71			
h'	6.2	6.5	6.45	01	3.42	9.87	?	10.1?	.	.			
k	6.8	7.1	7.05	01	3.31	10.36							
l		7.6	8.10	00	3.20	10.80							
m		8.1	8.1		3.16	11.26							
n		8.2	8.2	00	3.16	11.36							
o		8.8	9.1	8.95 2/1	3.13	12.08							
p		9.4	9.6	9.50 1/1	3.14	12.64							
q		9.4	9.6	9.50 1/1	3.14	12.64							
r		.	nearly sup.										
s	Var.	n.s.?											
t		n.s.											

"a" is double – not to be used in sequence for var.

a dbl. dbl dbl. {8.4 / 9.3}

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Saturday October 14. 1916.

Sheet 44

Scale m

B series 178.

	B 470 11		C 11	B.C
	pc.1	pc.2	pc.2	pc.2
1	B.			8.4 — 1.59
2	B.			8.1 — 0.62
elong. 3	tl.			9.2 — 1.53
4	tl.			9.6 — 1.69
5	4.2 4.0		4.10	9.9 — 1.60
6	4.4 4.2		4.06	10.0 — 1.54
7	4.9 4.1	B.	3.93	ns. ,
8	5.0 4.8	5.2	5.10 ± 1 3.93	
10	5.7 5.1	5.6	5.75 2 3.70	
12	6.4 6.2	6.3	6.35 0 1 3.50	
14	6.5 6.3	6.5	6.50 0 0 3.47	
15	6.7 6.5	6.8	6.75 1 0 3.65	
16		7.5		3.25
17		7.8		3.22
20	7	8.15 0 1 8.2 8.1		3.24
23		8.80 0 0 8.8 8.8		3.06
24 25		9.35 1 0 9.4 9.5		3.05 3.12
26		9.8 9.85 0 1	9.9	3.05
27		9.9 9.90 0 0	9.9	3.44
28		7 7	,	
29		ns.	,	
30				
31				

All images are elongated.

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Saturday October 14, 1916.

Scale M

B Series 178.

	B 47011 g sc.1	B 47011 g sc.2	C 11 h sc.1	C 11 h sc.2	Diffr. Im.
1	6.0 5.8	6.00 00	6.0 5.8		0.81
2	6.6 6.4	6.60 00	6.6 6.4		0.48
3	th.		th.		,
4		7.8		th.	0.11
5		th.		th.	,
6		8.2		th.	0.26
7		8.5	8.55 L0	8.6	0.28
8		9.1?	9.00 11	8.9?	0.03
10		9.7	9.70 00	9.7	-.025
12		f		f	,
14		ns.		ns.	,
15					
16					
17					
20					

Diffr. Images are from.

11—

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1916phae.proj.10770

Monday, October 23, 1916.

Plotter Sheet 134

Scale M.

B Series 116.

10:25 . B 46366 C5. 9 +15°

Q.C.

	Sec 1	Sec 2		Diff.		Sec 2	
1	B.					8.6	- 1.44
2	4.8 5.0		5.0		3.02	9.5	- 1.48
4	4.6 4.8	4.6	4.8		3.40	9.1	- 1.50
4a	5.2 5.4	5.8	5.35	0.1	3.02	+0.1 10.0	-1.63
5	5.5 5.7	5.6	5.65	1 0	3.29	10.1	- 1.16
6	5.5 5.7	5.8	5.75	1 0	3.41		
8	6.1 6.3	6.4	6.35	1 0	3.20 2.84		
9	6.3 6.5	6.5	6.50	0 0	3.22		
10	6.6 6.8	6.9	6.85	0 1	3.16		
12	6.8 7.0	7.3	7.15	2 1	3.06		
12a	6.8 7.0	7.1	7.05	0.1	"		
13		7.5			2.96		
14a		7.6			3.35		
15		7.8			3.36		
16		8.0			3.36		
18		8.6			3.22 3.15		
19		8.6			3.45		
20		8.6	8.7	8.65	0 1 3.57		
21		9.3	9.3	9.30	0 0 3.39		
22		9.6	9.4	9.50	1 1 3.51		
23		10.0	10.0	10.00	0 0 3.19		
24		10.0	10.0	10.00	0 0 3.48		
25		7.					
27							
28							

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19:10phae.proj:10770

Monday October 23, 1916.

Scale m. B series 116.

	B 46366 g sc.1	sc.2	C 5 h sc.1	sc.2	Diffr. Im.
1	tf.		tf.		
2	tf.		16		0.42
4	tf.		19? faint		0.30? faint.
5	8.5	~~0.44~~	8.5	8.50	0.44
6	tf.		tf.		
8	9.5	~~0.05~~	9.5	9.50	0.05
9	9.9	~~−0.18~~	9.8	9.85	−0.13 −0.08
10	f		f		
12					
13					
15					
16					
18					
19					
20					

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Monday October 23, 1916.

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P.C. copied on 4D

Scale m-

B series 116

Repeat

B 46367 D5. 9 – 15° Alt corr. +.06

Reduced from B46372 bu.		pc.1	pc.2	pc.3	Reduced from B46366 bu.		pc.2	Reduced from B46366 bu.		Repeat Reduced from B46372 bu.	
~~1.58~~	1	tfr.				"	8.6	-1.40	7.10	"	"
1.58 5.88	2	4.1 4.3			3.19	7.49	9.3	-1.51	7.79	-3.00	6.30 ~~4.79~~
" "	3	tfr.				"	9.2	-1.49	7.71	-2.99	6.21 ~~4.78~~
1.52 6.32	4	4.6 4.8			3.19	7.99	9.4	-1.53	7.87	-3.01	6.39 ~~4.86~~
" "	5	tfr.	tfr.			"	9.7	-1.57	8.13	-3.02	6.68 ~~5.11~~
1.45 6.80	6	5.1 5.3	5.4		5.35 ± 0 3.19	8.54	9.7	-1.57	8.13	-3.02	6.68 ~~5.11~~
1.44 6.99	7	5.5 5.5	5.6		5.55 ± 0 3.20	8.75	10.0? ft.	-1.61?	8.39?	-3.03?	6.67? ~~5.36?~~
1.42 7.12	8	5.4 5.6	5.8		5.70 ± 1 3.20	8.90	y.				
1.42 7.12	9	5.4 5.6	5.8		5.70 ± 1 3.20	8.90					
1.39 7.89	10	6.3 6.5	6.5		6.50 0 0 3.20	9.70					
1.39 7.84	11	6.3 6.5	6.4		6.45 1 0 3.20	9.65					
1.39 7.94	12	6.4 6.6	6.5		6.55 0 ! 3.21	9.76					
1.40 8.50	13	6.9 7.1	7.1		7.10 0 0 3.23	10.33					
1.40 8.70	14		7.3		3.25	10.55					
1.42 9.12	15		7.7		3.27	10.97					
1.42 9.12	16		7.7		3.27	10.97					
1.42 9.12	17		7.7		3.27	10.97					
1.43 9.33	18		7.9		3.28	11.18					
1.44 9.44	19		8.0		3.29	11.29					
1.50 10.00	20		8.5		3.32	11.82					
1.52 10.22	21		8.7		3.33	12.03					
1.53 10.33	22		8.8		3.34	12.14					
1.57 10.87	23		9.3		3.37	12.67					
1.56 10.76	24		9.2		3.37	12.57					
1.57 10.87	25		9.3		3.37	12.67					
1.59 10.99	26		9.4		3.39	12.79					

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1910phae..proj..10770

Monday, October 23, 1916.

Scale m

B Series 116 -

B 46 3 64 ☆5 cont. 9 - 15° Alt. corr. +.06

Right

	pc. 2	pc. 2			Reduced from B46366. Cw.		Reduced from B46372 Cw.	
27	9.4	9.5	9.45	0 1	3.39	12.84	1.59	11.04
28	9.6	9.5	9.55	0 1	3.40	12.95	1.60	11.15
29	10.0	10.0	10.00	0 0	3.45	13.45	1.67	11.67
30	↓	↓			.		.	
31	↓							

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Monday October 23, 1916.

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Scale m.

R Series 116.

B46368 D5 Diffr. Inn. Refract Alt. corr. +06

9 h

	sc.1	sc.2	sc.1	sc.2		Reduced from B46366 Cor.		Reduced from B46372 Cor.	
1	tfr.		7.2			+0.52	7.72	"	
2	7.6		tfr.			+0.45	8.15	"	
3	7.6		7.4	7.50	00	+0.47	7.97	"	
4	7.9 from		7.9 from	from 7.90		+0.39 from	8.29 from	"	
5	8.2		tfr.			+0.33	8.53	"	
6	8.4		8.3	8.350	1	+0.30	8.65	"	
7	8.4		8.4	8.40	00	+0.29	8.69	"	
8	8.5		8.6	8.55	10	+0.26	8.81	"	
9	9.1		9.1	9.10	00	+0.18	9.28	-1.60	7.50
10	9.6		9.4	9.50	11	+0.14	9.64	-1.60	7.90
11	9.4		9.4	9.40	00	+0.15	9.55	-1.60	7.80
12	9.7		9.8	9.75	10	+0.11	9.86	-1.59	8.16
13	10.0		10.0	10.00	00	+0.07	10.07	-1.59	8.41
14	n.s.		n.s.				"		
15									
16									
17									
18									
19									
20									
21									

See next page.

* Remeas. by O. Oct. 28, '16.

	sc.2
24	8.4
25	8.7? - upon examination with high power
26	9.1 # 25 there is a defect on 25.
27	9.2 Reject. 25. 27 O.K.
28	9.4

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1010phae.proj.10770

Monday October 23, 1916.

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Scale M. B Series 116.

B 4636 98 E4-

P.C.

Reject

Reject

Alt. corr. +.01

Reduced from B46372 Cu.		sc.1	sc.2	Reduced from B46366 Cu.		sc.2	Reduced from B46366 Cu.		Reduced from B46372 Cu.	
..	1	2.9 3.1		..		8.3	-1.34 +0.32	6.96	..	
..	2	3.7 3.9		3.20	7.10	8.8	-1.44 +0.23	7.36	..	
1.58	5.88	3	4.1 4.3	3.19	7.49	9.4	-1.53 +0.16	7.87	-3.00	6.40
..	.	4	t/r.	..		9.2	-1.50 +0.17	7.70	-2.99	6.21
1.57	5.97	5	4.2 4.4	3.19	7.59	9.4	-1.53 +0.16	7.87	-3.00	6.40
..	.	6	t/r.	..		9.5	-1.55 +0.14	7.95	-3.01	6.49
..	.	7	t/r.	..		9.3	-1.51 +0.16	7.79	-3.00	6.30
1.47?	6.67?	8	d/f. 5.2?	3.20?	8.40?	9.5	-1.55 +0.14	7.95	-3.01	6.49
1.40	7.40	9	5.1 5.9	6.00 ± 1	3.20	9.20	f.			
1.40	7.50	10	5.9 6.1	6.10 0 0	3.20	9.30				
1.39	7.69	11	6.1 6.3	6.30 0 0	3.20	9.50				
1.39	7.84	12	6.2 6.4	6.45 0 1	3.20	9.65				
1.39	7.79	13	6.2 6.4	6.40 0 0	3.20	9.60				
1.39	7.84	14	6.3 6.5	6.45 1 0	3.20	9.65				
1.39	7.99	15	6.5 6.7	6.60 1 ±	3.21	9.81				
1.40	8.50	16	6.9 7.1	7.10 0 0	3.24	10.34				
1.40	8.60	17			3.25	10.45				
1.41	8.91	18			3.26	10.76				
1.41	8.91	19			3.26	10.76				
1.43	9.33	20			3.28	11.18				
1.43	9.33	21			3.28	11.18				
1.46	9.66	22			3.30	11.50				
1.49	9.89	23			3.32	11.72				
1.50	10.00	24			3.32	11.82				
1.51	10.11	* 25			3.33	11.93	Def on 25.			
1.53	10.43	26			3.35	12.25				

Faint stars cont.

Reduced from B46366 Cu		Reduced from B46372 Cu.			sc.2	sc.2	
3.37	12.57	1.56	10.76	27	9.2	9.2	9.20 00
3.38	12.63	1.57	10.82	28	9.5	9.0	9.25 3 2
3.38	12.78	1.59	10.99	29	9.4	9.4	9.40 0 0
3.45	13.50	1.69	11.74	30	10.0	10.1	10.05 0 1
3.44	13.44	1.67	11.67	31	9.9	10.1	10.00 ± 1
..				32	f	f	
..				33	f.	f.	
3.46	13.66?	1.71?	11.91?	34	10.2?	f.	
				35	n.s.		
				36	9.8 defect		

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Monday October 23, 1916.

Copied B 27, 124.

Scale m.

B Series 116.

B 4637 ~~8~~ 68 E4-

Diffr. Inn.

alt. corr: +.01

g h

	sc.1	sc.2	sc.1	sc.2		Reduced from B 4636 6 cu.		Reduced from B 4637 2 cu.	
1	6.4	6.6	6.2	6.4	6.50	1	"	"	
2	7.2		7.4		7.30	1	+0.50	7.80	"
3	7.1		7.8		7.75	1 0	+0.42	8.17	"
4	7.7		t.f.		7.7		+0.43	8.13	"
5	7.8		7.7		7.75	0 1	+0.42	8.17	"
6	7.7	w.c.	7.8		7.75	1 0	+0.42	8.17	"
7	7.8		t.f.		7.8		+0.41	8.21	"
8	8.4		8.4		8.40	0 0	+0.30	8.70	"
9	9.2		9.1		9.15	0 1	+0.18	9.33	-1.60 7.55
10	9.3		9.3		9.30	0 0	+0.16	9.46	-1.61 7.69
11	9.3		9.3		9.30	0 0	+0.16	9.46	-1.61 7.69
12	9.4		~~t.f.~~ 9.4		9.40	0 0	+0.15	9.55	-1.60 7.80
13	9.7		9.6		9.65	1 0	+0.11	9.76	-1.60 8.05
14	9.7		9.7		9.70	0 0	+0.11	9.81	-1.60 8.10
15	9.67		9.6		9.65	1 0	+0.11	9.76	-1.60 8.05
16	"		"					"	
17	"		"						
18									
19									
20									
21									
22									
23									
24									
25									

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Monday, October 23, 1916.

Copied B 27, 116

Scale m B Series 116.

B 46369 E 3.

Alt. corr. + -17

Reduced from B46372 Gu.		sc. 1	sc. 2	Reduced from B46366 Gu.		sc. 2	Reduced from B46366 Gu.		Reduced from B46372 Gu.	
"	1	B.				8.9	-1.46	7.43	-2.98	5.92
1.57	5.97	2	4.2 4.4	3.19	7.59	8.8	-1.44	7.36	"	"
1.60	5.70	3	3.9 4.1	3.19	7.29	8.7	-1.42	7.28	"	"
1.54	6.14	4	4.4 4.6	3.20	7.80	9.1	-1.49	7.61	-2.99	6.11
1.49 ~~1.58~~	6.49	5	4.7 4.9 5.1	5.00 1 1	3.20 8.20	9.2	-1.50	7.70	-3.00	6.20
1.50	6.48	6	4.6 4.7 4.8 4.9 5.1 5.1	4.98 2 1 1	3.20 8.18	9.2	-1.50	7.70	-3.00	6.20
1.46	6.71	7	4.8 5.1 5.0 5.3 5.4 5.3	5.25 2 1 2	3.20 8.45	9.6	-1.56	8.04	-3.01	6.59
1.43	7.03	8	5.4 5.6 5.6	5.60 0 0	3.20 8.80	9.				
1.40	7.50	9	5.8 6.0 6.2	6.10 1 1	3.20 9.30					
1.40	7.70	10	6.0 6.2 6.4	6.30 1 1	3.20 9.50					
1.40	7.70	11	6.1 6.3 6.3	6.30 0 0	3.20 9.50					
1.40	7.70	12	6.1 6.3 6.3	6.30 0 0	3.20 9.50					
1.39? dbl?	8.14?	13	6.5 6.7 6.8? dbl.	6.75? 1 0	3.21? 9.96?					
1.39	8.19	14	6.7 6.9 6.7	6.80 1 1	3.21 10.01					
1.40	8.60	15	7.2		3.24 10.44					
1.39	8.39	16	7.0		3.23 10.23					
1.42	9.02	17	7.6		3.26 10.86					
1.42	9.02	18	7.6		3.26 10.86					
1.46	9.66	19	8.2		3.30 11.50					
1.44	9 ~~10~~.24	20	8.0		3.29 11.29					
1.45	9.55	21	8.1		3.30 11.40					
1.45	9.55	22	8.1		3.30 11.40					
1.50	10.00	23	8.5		3.32 11.82					
1.52	10.32	24	8.8		3.34 12.14					
1.52	10.32	25	8.8		3.34 12.14					
1.53	10.43	26	8.9		3.35 12.25					

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Monday October 23, 1916.

Scale m.

B series 116.

B46369 E3 cont

Reject

alt. corr. -.17

	sc 2			Reduced from B46366 Cu.		Reduced from B46372 Cu.	
27	8.4 R			3.32	11.72	1.49	9.89
28	9.4			3.37	12.77	1.59	10.99
29	~~8.7~~ 9.7	9.6	9.65 10	3.41	13.06	1.61	11.26
30	9.4 9.7		9.55 ± 1	3.40	12.95	1.60	11.15
31	~~10.0~~ w.s.	9.8		3.52	13.32	1.64	11.44
32	9.9 9.9		9.90 00	3.54	13.44	1.66	11.56
33	10.0 10.0		10.00 00	3.55	13.55	1.67	11.67
34	w.s. w.s.				"		"

Examination of plate shows that the reading for No. 27 is certainly a mistake. Wrong star apparently measured. Rejected Oct. 7, 1920

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Monday October 23, 1916.

Boyden B27, 116

Scale m B series 116.

B 46369 c3 Diffr. 1m. Alt. corr. -.17

Reject

		g sc.1	g sc.2	h sc.1	h sc.2		Reduced from B46366 Cu.		Reduced from B46372 Cu.	
dbl.	1	6.3	6.5	6.4	6.6	6.55 1 0	+0.49	"	"	
	2	7.3		7.4		7.35 1 0	+0.49	7.84	"	
	3	tfr.		7.6		7.6	+0.44	8.04	"	
	4	7.4		~~9.0~~	7.6	7.50 1 0	+0.47	8.07	"	
	5	7.8		7.8		7.80 0 0	+0.41	8.21	"	
	6	7.9		8.1		8.00 1 1	+0.38	8.38	"	
	7	8.1		8.2		8.15 1 0	+0.34	8.49	"	
	8	8.5		8.6		8.55 1 0	+0.28	8.83	-1.58	6.97
	9	9.1		9.1		9.10 0 0	+0.19	9.29	-1.60	7.50
	10	9.3		9.4		9.35 1 0	+0.15	9.50	-1.60	7.75
	11	9.4		9.4		9.40 0 0	+0.15	9.55	-1.60	7.80
	12	9.5		9.7		9.60 1 1	+0.13	9.73	-1.60	8.00
	13	tfr.		10.0		10.0	+0.07	10.07	-1.58	8.42
	14	10.0		9.9		9.95 0 1	+0.08	10.03	-1.59	8.36
	15	7		7.						
	16									
	17									
	18									
	19									
	20									

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Monday October 23, 1916.

Copied B34, 66.

Salem.

B Series 16.

B 46370 173 K 9 36-45.1 Alt. corr. 0.00

Reject

Diff. Im.

Reduced from B46372 Cu.		pc.1	pc.2	pc.3	Reduced from B46366 Cu.				9 h pc.2	pc.2	Reduced from B46366 Cu.	(1) (*)	P.C. pc.2	Reduced from B46366 Cu.	Reject Reduced from B46372 Cu.
1.43	7.08	1	5.5 5.7	5.6	-1.56	5	1	3.20	8.85	8.4	8.4	8.40	0 0	+0.29 8.69	9.9	-1.60 9.30	-3.02 6.88
1.40	7.50	2	5.9 6.1	6.1	6.10	0	0	3.20	9.30	8.6	8.6	8.60	0 0	+0.26 8.86	n.s.		
1.39	8.14	3	6.6 6.8	6.7	6.75	0	1	3.21	9.96	9.6	9.5	9.55	0 1	+0.13 9.68			
1.39	8.34	4	6.7 6.9	7.0	6.95	1	0	3.22	10.17	9.8	9.7	9.75	0 1	+0.10 9.85			
1.40	8.60	5		7.2				3.24	10.44	9.8	9.8	9.80	0 0	+0.10 9.90			
1.41	9.01	6		7.6				3.27	10.87	f	f						
1.43	9.33	7		7.9				3.28	11.18								
1.46	9.66	8		8.2				3.31	11.51								
1.48	9.78	9		8.3				3.31	11.61								
1.49	9.89	10		8.35 8.3	8.40	1	1	3.32	11.72								
1.53	10.38	11		8.8 8.9	8.85	0	1	3.35	12.20								
1.53	10.38	12		8.8 8.9	8.85	0	1	3.35	12.20								
1.57	10.87	13		9.2 9.4	9.30	1	1	3.38	12.68								
1.59	10.99	14		9.4 9.4	9.40	0	0	3.39	12.79								
1.62	11.32	15		9.7 9.7				3.41	13.11								
		16															

Reject

Diff. Image.

(1) (*)	Reduced from B46372 Cu
1	"
2	-1.58 +.42 7.02
3	-1.60 7.95
4	-1.59 8.16
5	-1.59 8.21
6	"

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Monday October 23, 1916.

Copied B34, p. 18

Scale M. B Series 116

B 4637 1 B 126 K 10h 17m = 15.1 Alt. corr. +.07

Diff Im. P.C

Report

Reduced from B46372 Bu.		sc.1	sc.2	sc.2	Reduced from B46366 Bu.			
1.57	5.97	1	4.2 4.4	~~4.8~~ w.s.	3.19	7.69		
1.42	7.82	2	5.1 5.9	5.1	5.80	1 1	3.20	9.00
1.40	8.55	3	6.9 7.1	7.2	7.15	1 0	3.24	10.39
1.40	8.60	4		7.2	3.24	10.44		
1.41	9.01	5		7.6	3.27	10.87		
1.46	9.66	6		~~8.2~~ 8	3.31	11.51		
1.50	10.00	7		8.5	3.32	11.82		
1.50	10.00	8		8.5	3.32	11.82		
1.53	10.48	9		9.0 8.9	8.95	0 1	3.35	12.30
1.59	10.99	10		9.4 9.4	9.40	0 0	3.39	12.79
1.65	11.50	11		9.9 9.8	9.85	1 0	3.42	13.27
1.65	11.50	12		9.9 9.8	9.85	1 0	3.42	13.27
1.67	11.67	13		10.0 10.0	10.00	0 0	3.44	13.44
		14		w.s.				
		15						

sc.1	sc.2	Reduced from B46366 Bu	*	sc.2	Reduced from B46366 Bu	Reduced from B46372
1.6	1.6	7.60 0 0 +0.45 8.05		9.2	-1.49 7.71	-2.99 6.21
8.6	8.6	8.60 0 0 +0.27 8.87	~~10.0~~	10.1	-1.62 8.48	-3.03 7.07
7.	10.0	+0.08 10.08 w.s.				
10.0	10.0	10.00 0 0 +0.08 10.08				

Report

Diff Image.
Reduced from B4637 2

*	Bu.
1	"
2	-1.58 7.02
3	-1.58 8.42
4	-1.58 8.42

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Monday October 23, 1916.

Plotted sheet 134

Scale m.

B Series 116.

B 46372 C6. 11 +15

N.B. Underexposed ~~30~~ 40s.

add .06 to Diff.

P.C

	pc.1	pc.2		Diff.	Corr. Diff.	pc.2	Diff.	Corr. Diff.
1	5.2	5.4		1.36	1.42	98	-3.04	-2.98
2	t.p.	t.p.		"	"	100	-3.12	-3.06
3	5.9	6.1	6.1	6.10	0 0 1.41 1.47	ns.		
4	5.9	6.1	6.2	6.15	1 0 1.41 1.47			
5	6.1	6.3	6.2	6.25	1 0 1.52 1.58			
6	6.8	7.0	6.9	6.95	0 1 1.26 1.32			
9			7.4		1.19 1.25			
			7.6		1.30 1.36			
10a		10	7.8		1.26 1.32			
12			7.9		1.44 1.50			
13	6.4	w.s.	8.4		1.29 1.35			
14			8.7	5	1.56 1.62			
14a			9.3		"			
16			9.1		1.42 1.48			
17			9.3		1.48 1.54			
19			9.5		1.43 1.49			
21			9.8	9.1	9.75 0 1 1.51 1.57			
22			9.9	9.8	9.85 1 0 1.69 1.75			
23			1.	1.				
24								
25								
26								
27								
28								
30.								

Does not show faint stars.

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Monday, October 23, 1916.

Scale m.

B series 116.

B 4637 2 C6 Diffr. Im.

9 h

Underexposed 40 Sec.

	sec. 1	sc.	Diff	Cor Diff	sec. 1	sc.	Diff	Cor Diff
1		8.3	~~-1.54~~	~~-1.48~~		8.4	8.35 -1.84	6 3 -1.58
2		tfr.	"			tfr.		"
3		tfr.	"			9.1	-1.59	-1.53
4		9.2	~~-1.64~~	~~-1.58~~		9.3	9.25 -1.74	1.63 ~~-1.68~~
5		9.6	-1.83	7 -1.76		tfr.		"
6	1	10.0	~~-1.79~~	~~-1.73~~		10.0	10.00 -1.79	-1.73
9		10.0	~~-1.41~~	~~-1.35~~		10.0	10.00 -1.41	-1.35
10		n.s.	"			n.s.	"	
12								
13								
14								
16								
17								
19								
21								
22								
23								

Magnitudes differ from those on B4636 (pp. 168, 169) by about 1.8 magn. Repeat this plate and reduce series with B4636 only.

1:45

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Monday October 30, 1916.

Reduction Delayed

Sheet 45

Scale m

B Series 199.

10.— *B 47233 C11-

	sc1	sc2		P.C. sc.2
1	B.		,	8.2 poor — 1.39
2	t.f.		,	8.5 — 1.42
3	t.h.		,	8.8 — 1.13
4	3.8 3.6		4.11	9.2 — 1.29
5	3.8 3.6 poor.		4.50	9.2 — 0.90
6	t.f. 4.8 4.6?	t.h.	3.66	9.1 — 1.24
8	t.f.	t.h.	,	9.8 — 0.77
9	5.5 5.3	5.4 5.45 1 0	3.89	n.s. ,
11	5.8 5.6	5.1 5.75 0 1	4.09	
12	6.4 6.2	6.1 6.25 2 1	3.60	
14	6.6 6.4	6.8 6.70 1 1	3.27	
omit 15			,	
16		7.4 7.65 1 2	3.30	
17		7.5 7.8 0 0 1.8	3.37	
17a		8.1 9.0 4 4 1.8		
20		8.1 8.7 5 0 1 9.5	2.29	
21		8.8 8.7 5 0 1 4.4 8.7	3.11	
23		9.5 9.6 0 1 9.7	2.26	
24		10.0 10.00 00 10.0	2.40	
omit 25			,	
26		4	,	
27			,	

(Plate very poor, much poorer than other plates in Series.)

* B47227 was measured in correct order, that is, the first plate in the Series, but was recorded on the wrong page (190). B47233 was measured after 47232, but recorded here, on account of error in using p. 190 for 47227.

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Monday October 30, 1916.

Salem. B Series 199.

	B 4727 33 g	C 11 - h	Diff. In.
	sc.1 sc 2	sc.1 sc 2	
1	5.9 5.1 5.85 10	5.8 5.6	0.96
2	6.6 6.4 6.50 11	6.4 6.2	0.58
3	th.	th.	.
4	th.	th.	.
5	th.	th.	.
6	th.	th. 8.1	0.36
8	th.	th.	.
9 &	th.	th.	.
omit 10			.
12	9.1 9.75 10	9.8	0.10
14	th.	10.1	-.013
15	m.s.	m.s.	.

11 h 50

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Monday October 30, 1916.

Scale m-

B Series 199.

B 41278. 8 micros. 21 21 - 303

	pc. 1	pc. 2		Diff. In m.		P.C.
				g	h	pc. 2
	4.7			7.85	10	
α	4.5			7.9	7.8	95
	5.3					
a	5.1	5.5	5.40 1 1	8.8	tf.	def. cover P.C.?
	5.6					
b	5.4	5.1	5.65 0 1	8.8?	tf.	n.s.
	7.1					
c	6.9	7.1	7.1000	n.s.	n.s.	
d		7.2				
e		7.4				
f		7.6				
f'		8.3				
g		8.1				
h		8.75	1 0			
		8.1	8.8			
l		9.00	1 1			
		8.9	9.1			
l'		9.20	0 0			
		9.2	9.2			
k		9.20	0 0			
		9.2	9.2			
k'		9.55	1 6			
		9.5	9.6			
m		l.	f.			

Ver. 6.8 6.6

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Monday October 30, 1916.

Salem. B Series 199.

B 47728 ~~B Micron~~. R Gruis 21 42-47.4

	pc.1	pc.2	pc.2	Diffr. Imm. g h	D.C. pc.2
a	4.7 4.5			ff. 8.1	9.1
b	5.4 5.2	5.5	5.45 0 1	8.5 0 0 8.5	n.s.
c	6.3 6.1	6.5	6.40 L 1	9.5 0 1 L 9.6	9.4
d	6.9 6.7	6.8	6.85 1 0	10.0 0 0 10.0	10.0
e		7.2		n.s	n.s.
f		7.6			
g		8.1			
h		8.4			
h'		8.5			
k		9.3	9.40 L 1 9.5		
l		9.7	9.65 1 0 9.6		
l'		9.6	9.60 0 0 9.6		
l2		10.0	10.00 0 6 9.00		
m		n.s.	n.s.		

Var. 6.1

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1916phae.proj.10770

Monday October 30, 1916.

Scale M

B series 199.

Q ~~Louis~~ 41231 Eq. 22 40 -450

O.C.

	sc.1	sc.2			sc.
1	tf				8.75 01 2
2	B.				8.9 hor 8.7
3	B.				8.50 11 8.4 8.6
4	4.7 4.0				9.1
5	tf.				9.1
6	4.3 4.1				9.5
7	4.9 4.1	5.1	5.00	1 1	9.6
8	5.0 4.8	5.1	5.05	0 1	9.8
9	5.7 55 hor	5.6	5.65	1 0	9.9
10	5.6 5.4	5.6	5.60	0 0	ms.
11	5.7 5.5	5.7	5.70	0 0	
12	6.0 5.8	6.1	6.05	0 1	
13	6.1 5.9	6.2	6.15	1 0	
14	6.3 6.1	6.4	6.35	1 0	
15	6.3 6.1	6.2	6.25	1 0	
16	6.8 6.6	6.8	6.80	0 0	
17		7.4			
18		7.4			
19		7.6			
20		7.7			
21		7.9			
22		8.0			
23		8.4			
24		8.6			
25		8.~~7~~6 (W.S. 23)			
26		8.1			

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Monday October 30, 1916.

Scale M. B Series 199-

B 47231 cont.

	pc.1	sc.2	pc.2
		885-01	
27	8.8		8.9
28	9.1	910	9.1
29	9.4	935	9.3
30	9.4	945	9.5
31	9.7	975	9.8
32	9.8	985	9.9
33	ms.		ms

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1916phae.proj.10770

Monday, October 30, 1916.

Scale m.

B Series 199.

B 4732 1 cont Eq Diffr. Inn.

	g pc. 1	sc 2	h pc. 1	sc 2
1	~~tf~~	7.3? v.f.	tf.	
2	tf.		tf.	
3	tf.		tf.	
4	7.6	7.55 01	7.5	
5	tf.		tf.	
6	7.9		tf.	
7	8.3	8.25 10	8.2	
8	tf.		tf.	
9	tf.		tf.	
10	tf.		tf.	
11	8.9	8.80 1	8.1	
12	9.4	9.40 00	9.4	
13	9.4	9.45 01	9.5	
14	9.9	9.85 10	9.8?	streaked
15	9.8	9.70 1	9.6	
16	f.		f.	
17			ns.	
18				
19				
20				
21				
22				

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Monday October 30, 1916.

Scale M. B Series 199.

B 47732 199K

	sc 1	sc 2	Diff'l m. g h sc 2	sc 2	P.C. sc 2
1	4.6 4.4 4.4 4.2	4.2 4.3 438 2021	th.	8.1	9.6
			865 01		
2	5.1 5.3 4.9 5.1	5.5 5.4 582 2021	8.6	8.7	10.0
3	5.8 5.6	5.6 570 11	8.8	th.	nsl.
			930 11		
4	6.1 5.9	6.3 620 11	9.2	9.4	
5	7.1 6.9	7.1 7.0 00	∓	∓	
6		1.8			
7		1.8			
8		1.8			
9		8.15 1 0			
		8.1 8.2			
10		8.15 1 0			
		8.1 8.2			
11		8.6 860 00 8.6			
12		9 9.05 10 9.0			
13		9.2 9.15 01 9.1			
		935 1.0			
14		9.3 9.4			
		9.9 0 0			
15		9.9 9.1			

Image of 9 is peculiar. It is elongated, ~~but not~~ and other stars in sequence are circular.

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1916phae.proj.10770

Monday October 30, 1916.

Sheet 45

Scale m.

B Series 199-

B 4723 C12.

	sc.1	sc.2			D.C. sc.2
1	B.				8.5 — 1.90
2	3.8 3.6		3.19		8.6 — 1.61
3	4.3 4.1		2.98		9.3 — 2.02
4	4.6 4.4		2.96		9.6 — 2.04
5	5.2 5.0	5.21	5.20 0 0	2.64	9.9 — 2.06
6	5.0 4.8	5.1	5.05 0	1 3.17	9.9 — 1.68
8	5.5 5.6	6.0	5.90 ⊥	1 2.70	ws.
9	6.1 5.9	6.21	6.15 ⊥	0 2.86	
12	7.1 6.9	7.0	7.05	1 0 2.56	
14		7.21		2.71	
16		7.1		2.68	
17		8.0		2.65	
18		8.1		3.20	
20		8.3		3.60	
21		8.1	8.70 0 0	8.1 3.53	
23		~~9.3~~ w.s.	9.1 9.10 0 0	9.1 3.91	
24		9.3	9.35 ⊥ 0	9.4 4.09	
26		10.0	10.0 0 0	10.0 3.66	
27		10.0	10.00 00	10.0 4.01	
28		w.s.		w.s.	
29		w.s.			

See note on p. 187

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Monday October 30, 1916.

Salem. B Series 199.

B 47 ~~2#27~~ C12. Diff. Inn.

	g sc.1	g sc.2	h sc.1 (68)	h sc.2	
1	th.		6.6		-0.20
2	7.1	7.15 0	7.2		-0.16
3	7.5		th.		-0.22
4	7.8	7.85 0 1	7.9		-0.29
5	8.5	8.50 0 0	8.5		-0.66
6	8.4		th. def.		-0.18
8	9.1	9.10 0 0	9.1		-0.50
9	9.6	9.60 0 0	9.6		-0.59
12	vf.		def.		
14					
16					
17					

See note on p. 182

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1916phae.proj.10770

~~Series~~ Tuesday, October 31, 1916.

Scale m.

10:10 B 4647984 C7-

B Series 127-

	NC1			NC2
1	B.			8.1 — 1.25
2	B			8.8? poor — 1.09
3	B.			9.3 — 1.19
4	4.3 4.1		3.90	9.4 — 1.20
5	4.9 4.9 4.1	5.15.0	4981.10 3.58	10.1 — 1.54
6	5.1 5.3 4.9 5.1	5.4 5.3	5.28 2.0 10 3.66	10.2? — 1.26
7	5.8 5.6	5.1	5.75 0 1 3.45	n.s.
8	6.0 5.8	6.2	6.10 1 3.50	
9	6.3 6.1	6.4	6.35 1 0 3.46	
11	6.8 6.6	6.9	6.85 0 1 3.26	
12		7.2		3.16
13		7.5		3.16
15		7.1		3.29
16		7.9		3.33
17		8.0		3.56
19		8.6		3.41
20		8.1 0 0 8.1	8.1	3.56
21		9.4 9.4 0 0	9.4	3.41
22		9.4 9.5 0 1	9.6	3.76
23		9.8 9.8 0 0	9.8	3.60
24		4	4	.
25		n.s.		.
26				
27		7. n.s.		

Measured in correct order, but recorded in wrong places. (see also p. 193)

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1916phae.proj.10770

Tuesday October 31, 1916.

Scale m. B Series 127-

B 4647 9 84 cy-

	g sc.1	g sc.2	h sc.1	h sc.2	
1		th.		th.	.
2		th.		7.4?	.
3		th.		th.	.
4		th		7.9	0.30
5		th.		8.3	0.26
6		86	8.60 00	8.6	0.34
7		th.		8.8	0.40
8		9.2	9.25 01	9.3	0.30
9		th.		9.6	0.21
11		t.		t.	.
12					
13					
15					
16					
17					

11:35

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Tuesday October 31, 1916

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Scale M-

B series 127-

Alt Cmn-09

B 46480

31 Ks

12 5i-60

Diffr. Imn.

	sc.1	sc.2	sc.3	Cw.	Magw	g	h			sc.3		
	4.8					7.60 00						
1	4.6	4.8	4.80 0 0	3.60	8.40	7.85 1 0	7.6 7.6	0.40	8.00	9.1	-1.09	8.01
2	5.1 4.9	5.1	5.10 0 0	3.55	8.65		7.9 7.8	0.41	8.06	9.5	-1.21	8.29
3	5.4 5.2	5.5	5.45 0 1	3.47	8.92	8.30 0 0	8.3 8.3	0.40	8.70	9.1	-1.22	8.48
4	5.8 5.6	6.0	5.90 1 1	3.40	9.30	8.70 0 0	8.7 8.7	0.39	9.09			
5	6.3 6.1	6.3	6.30 0 0	3.34	9.64	9.10 0 0	9.1 9.1	0.34	9.44			
6	6.9 6.1	7.0	6.95 1 0	3.29	10.24	9.55 0 1	9.6 9.5	0.26	9.81			
7		7.5		3.30	10.80							
8		7.6		3.32	10.92							
9		7.8		3.35	11.15							
10		8.1		3.41	11.51							
11		8.5 8.4	8.45 1 0	3.48	11.93							
12		8.5 8.4	8.45 1 0	3.48	11.93							
13		9.2 9.1	9.15 0 1	3.62	12.77							
14		9.3 9.4	9.35 1 0	3.67	13.02							
15		9.8 9.8	9.80 0 0	3.78	13.58							

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Tuesday October 31. 1916.

Copied B 34. 68

Scale m. B Series 124. Alt Con +02

B 46 481 176 K 12 48 – 45 0

	Sc. 1	Sc. 2	Cu.		Diff. Im. g h	Cu		P.C. Sc. 2
	5.7				880 00			
1	5.5	5.6 5.65 1 0	3.42	9.07	8.8 8.8 poor	0.38	9.18	ns.
	6.5				955 01			
2	6.3	6.5 6.50 00	3.31	9.81	9.6 9.5	0.27	9.82	
	6.7				960 01			
3	6.5	6.7 6.70 00	3.29	9.99	9.7 9.6	0.23	9.83	
4		7.6	3.32	10.92	ns ns			
5		8.1	3.41	11.51				
6		8.4	3.47	11.87				
7		8.4	3.47	11.87				
8		8.4	3.47	11.87				
9		8.1	3.52	12.32				
		9.10 00						
10		9.1 9.1	3.60	12.70				
		9.15 01						
11		9.2 9.1	3.61	12.76				
		9.35 01						
12		9.4 9.3	3.66	13.01				
		9.45 01						
13		9.4 9.5	3.69	13.14				
		9.50 00						
14		9.5 9.5	3.70	13.20				
		10.00 00						
15		10.0 10.0	3.82	13.82				

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1916phae.proj.10770

Tuesday October 31. 1916.

Cofried 45! 20

Scale m. B Series 127- All. Con +01

B 46480^2 w Centauri 13 21 - 46.9.

	pc.1	pc.2	Cu.	Magn	Diff. dm. g sec 2	h		Pc. pc.2	
A	B.		.	.	56 t.p.	.		7.7 .	.
B	C		.	.	6.5 t.p.	.		8.2 _ 1.09	7.11
C	38 3.6		3.91	7.71	7.5 (7.45 10)	7.4	0.40	7.85	8.9 _ 1.17 7.73
D	4.9 4.7	4.9	4.90 00	3.57	8.47	8.1 (8.10 00)	8.1	0.40	8.50	9.8 _ 1.23 8.57
a'	6.1 5.9	6.1	6.10 00	3.36	9.46	9.5 (9.50 00)	9.5	0.27	9.77	n.s. . .
b'	6.3 6.1	6.3	6.30 00	3.34	9.64	9.5 (9.45 10)	9.4	0.29	9.74	
~~b^2~~				.	.					
d'		7.6		3.32	10.92	n.s	n.s.			
e'		7.9		3.37	11.27					
f'		8.4		3.47	11.87					
g'	plats too close.	..		.	.					
h'		9.21		3.63	12.83					
k'		9.3		3.65	12.95					
l'		9.5		3.69	13.19					
l^2		too close.		.	.					
m'		9.9		3.80	13.70					
l^3		9.8		3.78	13.58					
m^3		9.8		3.78	13.58					

Measures of faint plats are uncertain, on account of the large no. of plats, and also they are very close.

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1916phae.proj.10770

Tuesday October 31, 1916.

Copied B 35:114

Scale M. 3° B Series 127 - Alt Corr + 05

B 4648 N Carte 13h - 31.5°

	pc.1	pc.2	cc.2	Cu.		g h pc.2	pc.2			P.C. pc.2	
1	4.3 4.1	4.3	4.30 00	3.374	8.04	7.40 00 1.4	1.4	0.40	7.80	8.8 – 1.17	7.63
2	4.6 4.4	4.5	4.55 01	3.366	8.21	1.5	th.	0.41	7.91	9.1 – 1.19	7.91
3	4.9 4.7	5.1	5.00 1	3.358	8.58	th.	th.	.	.	9.5 – 1.21	8.29
4	5.5 5.3	5.5	5.50 00	3.345	8.95	th.	th.	.	.	10.0 – 1.24	8.76
5	6.1 5.9	6.2	6.15 1.0	3.335	9.50	9.20 00 9.2 9.1	~~9.2~~	9.7	0.33	ms.	.
6	6.7 6.5	6.8	6.75 1.0	3.329	10.04	9.70 00 9.8	9.1		0.22	9.92	
7		7.5		3.331	10.81						
8		7.9		3.337	11.27						
9		7.9		3.337	11.27						
10		8.3		3.345	11.75						
11		8.6	8.55 01 8.5	3.351	12.06						
12		9.0	9.00 00 9.0	3.359	12.59						
13		9.2	9.15 01 9.1	3.361	12.76						
14		9.4	9.40 00 9.4	3.368	13.08						
15		9.4	9.45 01 9.5	3.369	13.14						
16											

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1916phae.proj.10770

Tuesday October 31. 1916.

Salem

~~10.10~~ B Series 127.

B 4648~~4~~ 19 CM -

P.C.

	sc.1	sc 2		sc 2
1	.		.	8.1 – 1.25
2	.		.	8.7 – 0.99
3	B.		.	9.4 from – 1.29
4	48 4.6		3.40	9.2 – 1.00
5	53 5.1		3.26	9.8 – 1.24
6	55 5.3		3.44	10.0 – 1.06
7	54 5.2	5.6 5.50	L 1 3.70	def? .
8	61 5.9	6.3 6.20	L 1 3.40	
9	5.8 5.6 ?	5.8 ? from 5.80 00	4.01	
11	7.0 6.8	7.2 7.10	L 1 3.01	
12	7.1 6.9	7.2 7.15	L 0 3.21	
13		7.5	3.16	
15		7.6	3.39	
16		7.8	3.43	
17		7.9	3.66	
19		8.5	3.51	
20		8.6 9.15	3.66 L 0	
21		9.1 9.2 9.45	0 1 3.66	
22		9.4 9.5 9.70	00 3.81	
23		9.7 9.7	3.70	
24		10.0 10.0 10.00	00 3.90	
25		10.0?	4.07 ~~3.90~~	
26		n.s.	.	
27		n.s.	.	

Measured in correct order, but recorded on wrong page.

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Tuesday October 31, 1916 - -

Salem - B Series 124.

B 4648 79 cy - Diffr. Im.

	g sc 1	sc 2	h sc 1	sc 2	
1		tf.		tf.	.
2		tf.		7.3? faint	0.41
3		tf.		tf.	.
4		7.6	7.65	7.7	0.55
5		8.2	8.200	8.2	0.36
6		8.4	8.450	8.5	0.49
7		tf.		8.7	0.50
8		tf.		8.9	0.70
9		tf.		9.5? faint	0.31
11		tf.		10.1	0.01
12					
13					
15					

measured in correct order, but recorded out of place.

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1916phae.proj.10770

Thursday November 2, 1916.

Scale M.

B Series 196-

10. ~~20~~ 16 B 47192 C 10 - 19 + 15°

	sc.1	sc.2		Diff	P.C. sc.2
	46				
1	44			2.24	9.0 – 2.16
	5.1				
2	4.9			2.31	9.+ – 1.99
	49				
3	4.7	5.1	5.00 ⊥ 1	2.34	9.2 – 1.86
	5.1				
4	4.9	5.2	5.15 ⊥ 0	2.69	9.6 – 1.76
dbl?	5.7				
6	5.5	5.8	5.75 ⊥ 0	268	n.s. .
	5.8				
7	5.6	5.8	5.80 0 0	249	
	6.4				
8	6.21	6.4	6.40 0 0	2.70	
	7.1				
9	6.9	7.0	7.05 1 0	2.35	
10		7.2		249	
11		7.5		2.54	
12		7.9		2.59	
13		8.0		2.73	
15		8.5		2.67	
16		~~8.5~~ 6	8.8	272	
		9.1000			
17		9.1	9.1	280	
		9.6510			
18		9.1	9.6	270	
		9.990 00			
19		9.9	9.9	284	
20		10.0		2.87	
21		n.s.		.	
22		n.s.		.	
24					

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1916phae.proj.10770

Thursday November 2, 1916.

Seelm. B Series 196.

	B 47 192 g sc 1	sc 2	C 10 - h sc 1	sc 2	Diffr. Inv.
1	7.2	7.30 L1	7.4		-0.46
2	th		th.		.
3	7.6	7.60 00	7.6		-0.26
4	th.		th.		.
dbl? 6	th.		th.		.
7	8.1	8.65 10	8.6		-0.36
8	9.6	9.65 01	9.7		-0.55
9	10.1	10.05 10	10.0		-0.65
10	f.		10.1?		-0.41
11	n.s.		n.s.		,
12					
13					
15					

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1916phae.proj.10770

Thursday November 2, 1916.

Scale m -

B Series 1916

Alb Corr +03

B 47193 DM. 18 36-47.5

	sc.1	sc.2	sc.2	Cu.			sc.1	sc.2			sc.2		
							g	h					
1	4.5 (4.7)	4.7	4.70 0 0	2.79	7.49		7.45 0 1	7.5	− 0.44	7.01	9.1	− 2.03	7.07
2	5.4 (5.6)	5.6	5.60 0 0	2.68	8.28		8.30 0 0	8.3	− 0.45	7.85	9.8	− 2.00	7.80
3	5.6 (5.8)	5.7	5.75 0 1	2.66	8.41		8.45 1 0	8.4	− 0.45	8.00	10.1	− 1.99	8.11
4	6.2 (6.4)	6.5	6.45 0 1	2.59	9.04		th.	9.5	− 0.46	9.04			
5	6.7 (6.9)	7.0	6.95 1 0	2.54	9.49		10.0	9.5	− 0.49	9.51			
6		7.3		2.51	9.81		9.5	9.5					
7		8.0		2.53	10.53								
8		8.2		2.53	10.73								
9		8.5		2.56	11.06								
10		8.1	8.70 0 0 8.1	2.59	11.29								
11		9.1	9.15 1 0 9.2	2.65	11.80								
12		9.4	9.35 0 1 9.3	2.67	12.02								
13		9.4	9.50 1 1 9.6	2.70	12.20								
14		9.8	9.80 0 0 9.8	2.75	12.55								
15		10.1	10.10 0 0 10.1	2.83	12.93								

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Thursday November 2, 1916 –

Copied B 34: 124

Scale M. B Series 196 – Alt Cont + 06

B 47194 46 Ks 18 48

	sc 1	sc 2	sc 3	Cu		g	h			P.C. sc 2
	5.9					9.85	10			
1	5.1	5.9	5.90 00	2.64	8.54	9.3	9.2	– 0.46	8.79	n.s.
						9.40	00			
2	5.9 5.1	6.1	6.00 L 1	2.64	8.64	9.4	9.4	– 0.46	8.94	
3		7.3		2.51	9.81	n.s.	n.s.	.	.	
4		8.1		2.52	10.62					
5		8.5		2.55	11.05					
6		8.5	9.00 L 1	2.55	11.05					
7		8.9	9.1	2.63	11.63					
			9.10 00							
8		9.1	9.1	2.64	11.74					
			9.50 1 1							
9		9.6	9.4	2.70	12.20					
			9.95 0 1							
10		10.0	9.9	2.79	12.74					
			10.05 01							
11		10.0	10.1	2.81	12.86					
12		n.s.	n.s.	.	.					
13		n.s.		.	.					

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1916phae.proj.10770

Thursday November 2, 1916.

Copied 45.154

Salem.

B 47 195 SPm. B Series 196- Alt Cor -07

19 47 - 59.4

Diffr. Im

	sc 1	sc 2	Cu.		q	h			P.C. sc 2		
B	4.3 4.1										
c	5.5 5.3	5.4	5.45 1 0	2.85	7.15	7.75 1 0 7.8			8.9	- 2.04	6.86
b	5.9 5.7	5.6	5.75 1 2	2.67	8.42	8.55 1 0 8.6	- 0.44	7.31	9.1	- 2.00	7.10
a	5.6 5.4	5.5	5.55 0 1	2.69	8.24	8.95 1 2 9.1 8.8	- 0.45	8.10	±	.	.
c	6.0 5.8	6.1	6.05 0 1	2.63	8.68	8.80 0 0 8.8 8.8	- 0.46	8.49	10.0	- 1.99	8.01
b	6.3 6.1	6.3	6.30 0 0	2.61	8.91	9.35 0 1 9.4 9.3	- 0.45	8.35			
d	6.5 6.5	6.8	6.65 1 2	2.57	9.22	9.55 1 0 9.5 9.6	- 0.46	8.89			
d'		7.4		2.51	9.91	9.75 1 0 9.7 9.8	- 0.47	9.08			
f		7.6		2.51	10.11	7 7	- 0.48	9.27			
d'		7.6		2.51	10.11						
e		7.6		2.51	10.11						
e'		8.75 1 0 8.7 8.8		2.60	11.35						
g		8.55 1 0 8.5 8.6		2.57	11.12						
h		9.35 1 0 9.3 9.4		2.68	12.03						
k		9.35 1 0 9.3 9.4		2.68	12.03						
l		9.90 0 0 9.9 9.9		2.77	12.67						
Var.	6.3 6.1	6.25 1 0 6.2		2.61	8.86						

Bright images poor.

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1916phae.proj.10770

Thursday November 2, 1916.

Cofried 45! 160

Scale m B Series 196- Alt Corr +.01

B 47 196 R Telescopii 20h 08-47

	pc.1	pc.2	sc.2	Cw.		Diff. Im. 9h sc.2				P.C. sc.2	
A	4.7 4.5	B.		2.79	7.49	8.1 8.10 00	8.1	−0.44	7.66	9.6 − 2.01	7.59
a	5.0 4.8	5.2	5.10 1	2.74	7.84	8.4 8.40 00	8.4	−0.45	7.95	9.1 − 2.00	7.70
a'	6.1 5.9	6.2	6.15 1 0	2.62	8.77	9.3 9.25 1 0	9.2	−0.46	8.79	ns. .	.
a''	6.4 6.2	6.4	6.40 00	2.59	8.99	9.5 9.55 1 0	9.6	−0.47	9.08		
b	6.6 6.4	6.4	6.50 1 1	2.58	9.08	9.6 9.65 0 1	9.1	−0.47	9.18		
a⁴		11.2		2.52	9.72	? ?	.		.		
a³		1.4		2.51	9.91	ns ns.	.		.		
c		1.5		2.51	10.01						
e		1.9		2.51	10.41						
d		11.7		2.51	10.21						
f		8.1		2.52	10.62						
g		8.1		2.59	11.29						
h		9.1		2.64	11.74						
h'		9.1		2.64	11.74						
h''		9.2 9.20 00	9.2	2.65	11.85						
h³		10.0 10.00 00	10.0	2.80	12.80						
k		9.5 9.45 1 0	9.4	2.69	12.14						
l		9.5	9.4	2.69	12.14						
m		10.0 10.00 00	10.0	2.80	12.80						
Var.		8.3 8.35 1 0	8.4	2.54	10.89						

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Thursday November 9, 1916.

Salem. ?

B Series 196.

B 46 197 C11

21 +15°

P.C.

	sc. 1			sc. 7
1	B.		.	9.1 – 2.29
2	3.9 3.7		3.18	9.2 – 2.12
3	5.0 4.8	5.1	5.05 0 1 2.62	9.1 – 2.03
4	5.1 4.9	5.2	5. 6.15 1 0 2. 2.76	10.0 – 2.09
5	5.4 5.2	5.5	5.45 0 1 2.85	½ .
6	5.4 5.2	5.6	5.50 1 1 2.96	~~100~~ w.s.,
7	5.9 5.7	5.9	5.90 0 0 2.93	
8	6.4 6.2	6.5	6.45 0 1 2.58	
10	6.9 6.7	6.9	6.90 0 0 2.55	
12		7.4		2.45
14		7.6		2.37
15		7.9		2.50
16		8.2	8.60 0 0	2.50
17		8.6	8.6	2.42
20		8.9	8.80 1 1 8.7	2.59
23		9.4	9.40 0 0 9.4	2.46
24		9.7	9.75 1 0 9.8	2.65
25		9.9	9.90 0 0 9.9	2.67
26		n.s.	½ .	

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Thursday, November 2, 1916.

Scale m

B series 196-

	B 4 6 197 g pc 1	sec 2	C 11 h pc 1	sec 2	Diff. Im.
1	7.5	7.50 00	7.5		-0.69
2	7.6	7.60 00	7.6		-0.52
3	8.2	8.25 01	8.3		-0.58
4	8.5	8.45 10	8.4		-0.54
5	8.6	8.65 01	8.7		-0.35
6	8.6	8.65 01	8.7		-0.19
7	9.4	9.35 01	9.3		-0.52
8	9.5	9.45 10	9.4		-0.42
10	10.0	10.00 00	10.0		-0.55
12	n.s.		n.s.		
14					
15					

11:45

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Monday November 20, 1916.

Scale

H Series 42.

H 1182 Pole.

12
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Recor

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1916phae.proj.10770

Monday November 20, 1916

Copied 9a:47

Scale P H Series 42. Alt Corr +15

11 — +37.3 H 1180 M 15 21 25 +11.7

Start

Eff. 15m. Eff. 1m.

Diff. from "Grating" magn.		sc 1	sc 2	sc 3	Cu.	Magn	sc 2 corr S	Curve	magn.
7.06	a	6.9 6.6	7.0	6.75 21	5.68	12.43	m.s.	7.08	13.83
6.83	b		7.3		5.68	12.98	m.s.	6.90	14.20
6.86	c		7.5		5.69	13.19		6.84	14.34
6.75	d		7.7		5.69	13.39		6.76	14.46
6.94	e		7.7		5.69	13.39		6.76	14.46
6.71	f		7.9		5.70	13.60		6.68	14.58
6.81	g		7.9		5.70	13.60		6.68	14.58
6.51	h		8.4		5.74	14.14		6.50	14.90
6.50	i		8.5		5.75	14.25		6.45	14.95
6.62	l		8.5		5.75	14.25		6.45	14.95
6.58 50	m		8.1 8.6 5 10	8.6	5.79	14.44		6.40	15.05
6.03 6	n		9.0 9.05 01	9.1	5.88	14.93		6.25	15.30
6.11 20	o		9.5 9.45 10	9.4	6.00	15.45		6.11	15.56
6.15 32	p		9.9 9.80 11	9.7	6.15	15.95		6.01	15.81
	q		10.1 10.05 10	10.0	6.26	16.31			

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Monday, November 20, 1916.

Scale P

H Series 42.

H 1181 M2 21 78-1.3

Eff. 15mm Eff. 1mm

	Pri	pr.	sec.	Cw.		sec.	Cw
a	5.4 5.1	5.21	5.15	5.80	10.95	7.8	3.45 11.25
b	6.3 6.0	6.21	6.10	5.71	11.81	8:1	3.46 12.16
c	6.7 6.4	6.1	6.55	5.69	12.24	9.4	3.49 : 12.89
d	6.8 6.5	7.1	6.80	5.68	12.48	7. Also poor in shapes	
e		7.4		5.69	13.29		
f		8.1		5.71	13.81		
g		8.4		5.74	14.14		
h		8.70 8:1	00 8:1	5.80	14.50		
k		9.00 9.1	11 8.9	5.87	14.87		
l		9.55 9.6	01 9.5	6.05	15.60		
Not certain of identification		7?	7.		.		

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Monday November 20, 1916.

Scale P

It Series 42 –

It 1182

Pole –

15m Exp.

	sc1			Diff	Exp. 1m sc2		
12	tf.				tf.		
13	tf.				tf.		
14	5.3 5.5 5.0		5.25 ±1	+5.35	~~7.1~~		+3.55
15	5.4 5.1 5.3		5.20 ±1	5.88	8.0		3.08
16	tf. 5.1		5.1 ·2	5.70	8.1		3.30
17	6.3 6.0 6.3		6.15 ±1	5.48	8.4		3.23
18	6.5 6.2 6.5		6.35 ±1	5.71	8.5		3.56
19	6.7 6.4 6.7		6.55 ±1	5.81	8.6	8.8 8.70 ±1	3.72
20	7.0 6.7 7.0		6.85 ±2	5.88	9.3	9.2 9.25 10	3.48
21		7.3		5.66	tf.	tf.	
22		7.5		5.69	9.6	9.7 9.65 01	3.54
23		7.6		5.74	9.8	9.9 9.85 01	8.49
24		8.1	8.0	8.05 10	tf.	tf.	
25		8.0	8.2	8.10 ±1	5.77		
26		8.6	8.6	8.60 00	5.73		
27		8.8	8.9	8.85 01	5.84		
28		9.4	9.3	9.35 01	5.76		
29		tf.	tf.	tf.			
30		9.8	9.8	9.80 00	6.24		
31		n.s.	n.s.	n.s.			
32		n.s.					
33							

11:50

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1916phae.proj.10770

Tuesday November 21, 1916.

Scale P.

10.20.

H

B Series 43.

H 1183 Pole.

	Eff. 15 mm. sc 1	sc 2	sc 3	H 1189. P. 215. ↓	Mean	Diff.	Eff. 1 mm. sc 1	sc 2	H 1189 P. 215	Mean.	Diff.
10	3.6 3.3			.	3.3 ± .	+5.72	5.4 5.1	5.2 5.15 ± 0	.	5.15 ± .	3.87
12	tfr.			3.7	3.7 . ±	6.16	tfr.	tfr.	.	.	.
13	tfr			4.7	4.7 . ±	5.60	tfr.	tfr.	.	.	.
14	4.9 4.6			.	4.6 ± .	6.05	6.7 6.4	6.7 6.55 ± 1	6.8	6.68 13 12	3.97
15	5.1 4.8			.	4.8 ± .	6.38	6.9		.	6.9 ± .	4.18
16	5.4 5.0			5.10	5.05 05 05	6.35	7.6		7.4	7.50 1 1	3.90
17	tfr.	tfr.		5.30	5.30 . ±	6.33	7.8		7.9	7.85 01	3.78
18	6.1 5.8	6.1	6.05 ± 1	5.55	5.80 25	25 6.36	8.3		8.2	8.25 10	3.81
19	6.4 6.1	6.4	6.25 12	6.05	6.15 10	10 6.27	8.6		8.8	8.70 1 1	3.62
20	6.6 6.3	6.6	6.45 12	6.25	6.35 10	10 6.38	9.2		8.9	9.05 2 1	3.68
21	6.8 6.5	6.7	6.60 11	6.60	6.60 00	00 6.36	9.4		9.3	9.35 01	3.61
22	6.8 6.5	6.9	6.70 ± 2	6.55	6.62 08	07 6.57	9.5		9.4	9.45 10	3.74
23		6.8		6.75	6.78 02	03 6.56	9.5		9.6	9.55 1 0	3.69
24		7.3		7.3	7.30 00	00 6.34	9.6		9.60	9.60 00	4.04
25		7.4		7.5	7.45 01	6.42	9.8		9.90	9.85 05	05 4.07
26		7.8		7.8	7.80 00	6.53	n.s.				
27		7.9	from	7.9	7.90? 00	6.79?					
28		8.5	8.45 10 8.4	8.4	8.42 03	02 6.69					
29		8.9	8.90 00 8.9	8.90	8.90 00	00 6.76					
30		9.4	9.35 01 9.3	9.50	9.42 07	08 6.62					
31		9.5	9.50 00 9.5	9.60	9.55 05	05 6.67					
32		9.6	9.60 00 9.6	.	9.60 ± .	7.02					
33		9.8	from 9.80 00 9.8	9.90	9.75 05	05 7.21					

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Tuesday November 21, 1916.

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Scale P

H
18 Series 43.

Alt Corr +16

Sheet 373 H 1184 m 15 21 24+116

Eqn. 15m Eqn. 1m

Diff. from "Grating" magn.		pc.1	pc.2	pc.3	Cu.				Curve magn.	pc.2		
6.61	a		7.2		6.25 (43)	6.43	13.45	13.63	6.66	13.86	96°	ident. uncertain 379 13.39?
6.73	b		7.4		6.27	6.47	13.67	13.87	6.75	14.15	ns.	
6.76	c		7.6		6.29	6.51	13.89	14.11	6.79	14.39		
6.85	d		7.6		6.29	6.51	13.89	14.11	6.79	14.39		
6.94	e		7.7		6.30	6.52	14.00	14.22	6.80	14.50		
6.91	f		7.7		6.30	6.52	14.00	14.22	6.80	14.50		
6.81	g		7.9		6.31	6.56	14.21	14.46	6.76	14.66		
6.71	h		8.2	faint	6.33	6.62	14.53	14.82	6.70	14.90		
6.50	k		8.5		6.36	6.70	14.86	15.20	6.60	15.10		
6.62	l		8.5		6.36	6.70	14.86	15.20	6.60	15.10		
6.58 (60)	m	8.55 10	8.5	8.6	6.37	6.72	14.92	15.27	6.58	15.13		
6.08 (11)	n	9.00 11	9.1	8.9	6.40	6.84	15.40	15.84	6.39	15.39		
6.26 (36)	o	9.30 11	9.2	9.4	6.45	6.95	15.75	16.25	6.25	15.55		
6.40 (57)	p	9.55 01	9.6	9.5	6.50	7.03	16.05	16.58	6.12	15.64		
	q	9.80 11	9.7	9.9	6.54	7.16	16.34	16.96	6.00	15.80		

All images elongated.

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Tuesday November 21, 1916.

Scale P

~~H~~
~~B~~ Series 43.

H 1185 m 2. 21 28-13

Eff. 15m

	sc 1	sc 2	sc ½	Cu		
a	6.1 (58)	5.9	5.85 01	6.12 ~~6.01~~	11.97	
b	6.5 (6.2)	6.5	6.35 ±1	6.19 ~~3.99~~	12.54	
c	6.8 (6.5)	6.8	6.65 ±2	6.20 ~~3.97~~	12.85	
d		7.4		6.27	13.67	
e		7.6		6.29	13.89	
f		7.9		6.31	14.21	
g		8.6	8.50 ±1 (8.4)	6.36	14.86	
h		8.8	8.75 0 ±1 (8.7)	6.38	15.13	
k		8.9	8.95 ±0 (9.0)	6.40	15.35	
l		9.5	9.50 00 (9.5)	6.50	16.00	
m		9.5	9.55 ±0 (9.6)	6.50	16.05	
n		n.s.	n.s.			

Eff. 1m

sc 1	sc 2	sc ½	Cu	
7.8	7.9	7.85 01	3.80	11.65
8.6	8.1	8.65 01	3.70	12.35
9.2	9.21	9.20 00	3.71	12.91
9.5	9.7	9.60 ±1	3.79	13.39
n.s.	n.s.?			

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Tuesday, November 21, 1916.

H

Scale P

B Series 43.

H 1189 Pole -

	Eqr. 15m. sc.1	sc.2		Eqr. 1m. sc1	sc2
10	B.			B.	
12	4.0	3.7		fl.	
14	5.0	4.1		6.8	
16	5.4	5.1	5.1 5.10 ∞	7.4	
17	5.6	5.3	5.3 5.30 ∞	7.9	
18	5.1	5.4	5.1 5.55 21	8.2	
19	6.2	5.9	6.2 6.05 12	8.8	
20	6.4	6.1	6.4 6.25 12	8.9	
21	6.8	6.5	6.7 6.60 11	9.3	
22	6.7	6.4	6.6 6.55 21	9.4	
23	6.9	6.5	6.9 6.75 21	9.4	9.6
24	.		7.3	9.60 11	
25			7.5	9.5	9.7
26			7.8	9.90 ∞	
29			7.9	9.8	9.9
28			8.4	ms	ms.
29			8.8 8.90 11 9.0		
30			9.5 9.50 ∞ 9.5		
31			9.6 9.60 ∞ 9.6		
32			fl. fl.		
33			9.7 9.70 ∞ 9.7		
~~34~~					
~~35~~					
3					

11 20

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Tuesday March 6. 1917.

Scale P. H Series

10 – H 1069. Pole.

1st Exp. 15m. 2nd Exp. 1m.

	1st Exp. sc.1	1st Exp. sc.2	H 1073 B 2.18	Mean		Diff	2nd Exp. sc.1	2nd Exp. sc.2		H 1073 B 2.18	Mean		Diff
10	29 3.2?		.	2.9	a	6.10	63						
13	9f	B.	3.4	3.4	.	a 6.90	6.6?	6.5	6.40 1 1	6.2	6.30	10 10	4.00
14	43 4.6	4.5 4.40 1 1	4.30	4.35	05	05 6.30	65 6.8	6.8	6.65 1 2	6.45	6.55	10 10	4.10
16	49 5.2	4.9 4.90 0 0	4.95	4.92	02	03 6.48	7.7			7.4	7.55	12	3.85
17	52 5.5	5.3 5.25 0 1	5.15	5.20	05	05 6.43	7.8			7.8	7.80	00	3.83
18	56 5.9	5.8? 5.70 1 1	5.60	5.65	05	05 6.41	8.3?			8.2	8.25?	10	3.81
19	60 6.3	6.4 6.20 2 2	5.80	6.00	20	20 6.42	8.5			8.5	8.50	00	3.92
20	63 6.6	6.6 6.45 1 2	6.25	6.35	10	10 6.38	8.8			8.85	8.82	12 03	3.91
23	65 6.8?	6.8 6.65 1 2	6.60	6.62	03	02 6.72	9.4			9.30	9.35	05 05	3.99
25		7.5	7.4	7.45	10	6.42	n.s			9.80	9.80	. a	4.07
26		7.8	7.7	7.75	01	6.58				n.s	.	.	
27		8.4	8.1	8.25	21	6.44							
28		8.75 1 0 8.8	8.6	8.68	07	08 6.43							
29		9.35 0 1 9.3	8.9	9.12	23	23 6.54							
30		9.70 0 0 9.1	9.4	9.55	15	15 6.49							
31		9.85 1 0 9.8?	9.5	9.68	17	18 6.54							
32		1? 1	1	.									
33		n.s. n.s.	.	.									

Each plate in this H series has different images. The first one 1069 has circular images 1071 much elongated, and 1073 slightly elongated, but better than 1071. for first plate only.

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1916phae.proj.10770

Tuesday March 6, 1917.

Copied 9a: 47

Scale of Series.

Alt Com +16

Sheet 37[3] 1t 1071 d' m 15. 21 24 + 11.6

1st exp. 15 m. 2nd exp.

Diff. from Grating	Magn.		sc 1	sc 2	Cu.		Curve	Magn.	sc 2
6.41	a	+		7.4	6.39	13.89	6.45	13.85	n.s.
6.53	b	s.		7.6	6.44	14.10	6.47	14.07	n.s.
6.46	c			7.9	6.44	14.40	6.42	14.32	
6.35	d			8.1	6.45	14.60	6.39	14.49	
6.24	e			8.4	6.46	14.90	6.30	14.70	
6.21	f			8.4	6.46	14.90	6.30	14.70	
			8.45 10						
6.26	g		8.5	8.4	6.46	14.95	6.29	14.74	
			8.65 10						
6.26	h		8.1	8.6	6.47	15.16	6.21	14.86	
			9.10, 08 p.						
5.90	i		9.1	9.1	6.52	15.62	6.04	15.14	
			9.35, 0.4 p.						
5.77	k		9.4	9.3	6.52	15.87	5.95	15.30	
			9.40 00						
5.78	m		9.4	9.4	6.52	15.92	5.93	15.33	
.	n		9.		.	.	.	.	
			9.45 10						
6.11	o		9.5	9.4	6.52	15.97	5.90	15.35	
			9.90 00						
6.06	p		9.9	9.9	6.54	16.44	5.78	15.68	
	q		n.s.	n.s.					

This plate is much poorer than the preceding plate 1069 (Pole) All images on this pl. are much elongated.

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Tuesday March 6, 1917.

Scale

Jt
~~S~~ Series

Jt 1073 Pole.

	1st Expr. 15m. sc.1	sc.2	2nd Expr. 1m. sc.1	sc.2
10	B.		B	B.
13	3.4 3.1	B.	9 6.2	
14	4.2 4.5	4.4 430 1 1	6.3 6.6	6.6 645 1 2
16	4.8 5.1	5.1 495 2 1	7.4	
17	5.1 5.4	5.2 515 1 0	7.8	
18	5.6 5.9	5.6 560 0 0	8.2	
19	5.9 6.2	5.1 580 1 1	8.5	
20	6.1 6.4	6.4 625 1 2	885 1 0 8.9	8.8
23	6.4 6.7	6.8 660 2 2	9.30 0 0 9.3	9.3
25		7.4	980 0 0 9.8.	9.8
26		7.7	N.S.	N.S.
27		8.1		
28		8.6		
29		8.9		
30		9.4		
31		9.5		
Only traces 32		9.		

R

11—

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