

KG

11365

999



KG 11365.999

This book examined from page 47-192 for underlining, all  
regions, and corrections entered in copy.

E. E. W. Aug 4, 1917







5 3 25

25 2 6

~~m~~

c 3 m

m 2 d





2

Kd 11365.999







4

September 2, 1915

Sc M

11	10	A K 451	J'	Polar deg	D <sub>2</sub> (Marked on A K 426)
		Sc 1 43	Sc 2 45		
	a				
	b		55	53	
	c		56		
	d		59		
	e		60		
	f		65		
	g		71		
	h		72		
	k		75	71	
	l		77		
	m		79		
	n		83		
	o		85		
	p		87		
	q		87		
	r		90	89	
very close to	s		92	92	
	t		92	93	
	u		95	97	

After measuring the brightest images - found that the fainter ones appeared to be double.



September 2, 1915

Sc M

	AK 451 J1	Da 3-15 (Marked on A M 1761)
	Sc 1	Sc 2
1	5.8	
2	6.2	
3	6.1	
4	6.7	
5	6.7	
6	7.1	
7	7.3	
8	7.3 7.5	
9	7.5	
10	7.7	
11	7.9	
12	8.0	
13	8.2	
14	8.3 8.5	
15	9.1 9.3	
16	9.8?	

Images better than those of Pole Exp.

10-50

6

September 2, 1915

ScM

"	30	AS 428 J1	Bole Exp (marked on AS 457)
		502	
a	49.51		
b	55		
c	57		
d	61 69		
e	60		
f	63		
g	69		
h	73		
k	75 77		
l	79		
m	80 82		
n	83		
v	87		
p	88 90		
q	93		
r	Two near P		
s	" " r		
t	98		
u			
w			



September 2, 1915

Sc M

	AS 428 S'	D <sub>2</sub> 3-15	Marked on AS 489
1	Sc 2 6.2		
2	6.7 7.1		
3	6.5 6.7		
4	7.1		
5	7.1		
6	7.3		
7	7.5		
8	7.5 7.7		
9	7.9		
10	7.9		
11	8.2		
12	8.4		
13	8.5 8.7		
14	8.7 8.9		
15	9.1		
16	9.5		
17	9.8		
18	7		

12.05

8

September 3, 1915

Sc M

3 30 AS 242 S' Pole

a	Sc 1 2.8	Sc 2 3.9
b		4.7
c		4.9
d		5.1
e		5.3
f		5.8
g		6.3
h		6.7
i		7.3
j		7.7
k		7.9
l		8.3
m		8.5
n		9.0
o		9.0
p		
q	too near 2	
r	" " "	
s		
t		

Poor plate - no good plate of this region. Faint stars hazy and not comp with scale.

September 3, 1915

Sc M

A.S. 242 J'		D 3-5-15	Marked on A.S. 504
Sc 2			
1	4.7		
2	+h		
3	+h		
4	5.3		
5	+h		
6	+h		
7	+h		
8	6.5 6.7		
9	+h		
10	+h		
11	"		
12	"		
13	"		

Region not in center of pl. Images too badly elongated to meas.

3 - 55



September 8, 1915

Som

4 00 AK 247 J' Pole

a 5.2  
 b 6.1  
 c 6.2  
 d 6.4 6.5  
 e 6.5

f 7.1

g 7.5

h 7.8

i 8.1

l 8.3

m 8.5

n 8.7

o 8.9

p 9.2

q 9.2 9.5

r 9.5 9.5

From "N" s 9.7? 9.7

t 9.7 9.7

u 9.9?

September 8, 1915

Sc M

~~4-25~~

AK 247 J'

D4 7-15 (AM 2551)

1 <sup>802</sup>  
62

2 65 67

3 70 68

4 70

5 72 73

6 75 77

7 75 77

8 77

9 79

10 79 77

11 81

12 85

87 13 85 87 ws

14 80, 87?

15 90

16 90 89

17 ~~90~~ 89 Ser.

18 91 93

19 93

20 97

21 99?

4. 25

September 10, 1915

Sc M

12 20 Q.S. 248 J1 Pole

a 5.1

b 5.9

c 6.1

d defective

e 6.3

f 7.1 7.3

g 7.5

h 8.0

k 8.2

l 8.5

m 8.7

n 9.0

o 9.1

p 9.3

q 9.7 9.5

too close  
to meas.

r

s

t

u



September 10, 1915

b.m.

AS 248 J1		D4 7-15 (AS 215)	
1	<sup>5.2</sup> 6.6		
2	6.9		
3	7.0		
4	7.1		
5	7.3		
6	7.7		
7	7.9		
8	8.1		
9	7.9		
10	8.2		
11	8.5 8.3		
12	8.7		
13	8.9		
14	9.0		
15	9.0 9.1		
16	St. sup.		
17	9.5		
18	9.5 9.7		
19	9.9?		
20	9		

1.15

September 17, 1915

bc m

9 50 OS 249 J' Pole

a 6.1  
 b 6.8  
 c 7.1  
 d 7.3  
 e 7.3

f 7.7 7.9

g 8.3

~~h is brighter~~ \*h 8.0 8.7  
~~than g in sep?~~

k 8.7 8.9

l 9.0

m 9.3

n 9.5

o 9.7

p 9.9

q 9.9

r

s

t

u

We plan mess. for h - the first time.

September 17, 1915

ScM

DL 249 J' Ds 9-15

1 80.2  
74

2 79

3 80

4 82

5 85

6 85 87

7 88

8 90 89

9 91 93

Near def.

10 95

11 95

Near def.

12 97 97

13 99?

14

15

16

17

10-25



16

September 17, 1915

Dem

10 AK 295 J' Pole

a	Sc 1 40	Sc 2 41
b		48
c		51
d		53
e		53 51
f		60 58
g		65
h		71
i		73 75
j		78
k		81
l		85
m		88
n		91
o		93
p		95 97
q		
r		
s		
t		98
u		7

Dorman n

September 17, 1915

ScM

AK 295 J<sup>1</sup> D6 11-15 (G-m 4061)

RH?

1

502

2 58

3 61

4 61

5 67 65

6 65

7 65

8 71 72

9 71

all in dup. 10

11 73

12 77

13 81

meas No. 16

14 80

15 83 85

16 85

17 87

Very close to  
another star

18 90

19 93

20 95 97

21 3

Images from not in center of plate.

10:28

18

September 21, 1915

ScM

10 45 AS 259 81 Bole

a 5.2

b 6.1

c 6.4

d 7.1 6.9

e 7.3 7.1

f 7.3

g 7.5

h 8.0

i 8.2

l 8.5

m 8.7

n 9.1

o 9.3

p 9.5

q 9.8

Too close

{  
r  
s



September 21, 1915-

ScM

AS 259 J' D 6 11-15  
Sc 2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

The AS Plate of this region

20

September 23, 1915

Sc M

10

AS 358 Pole

a 52.2  
6.5

b 7.2

c 7.5

d 7.7

e 7.8

f 8.1

g 8.5

h 8.8

i 9.1

l 9.3

m 9.6

n 9.8

o 9.8

p 9.9

q 7

r

s

t

u

Mean def.

September 23, 1915

ScM

AS 358 J'		D7	13-15
WS	1 <sup>502</sup> 6.5 6.7	7.9	
	2	8.1	
	3	8.5	
WS	4 8.1	8.5	
	5	8.3	
	6	8.5	
	7	8.8	
	8	8.9	
	9	8.8	
	10	9.0	
WS	11 8.5 8.7	8.9 9.1	
	12	9m dup	
	13	9.7	

Poor plate. defects all over it.

101 25



22

September 23, 1915

Sc M

12 10 AK 385 J' Pole

a <sup>80.2</sup>  
49.47

b 55

c 57

d 60

e 62

f 67

g 71

h 75

i 78

l 81

Defective m 82

n 86

o 87

p 90

q 92 92

r 95 95

Too close to n

t 99 98

u 7

September 23, 1915

bcm

AK 385 J<sup>1</sup> D8 15-151 6.1<sup>sec 2</sup>

2 6.2

3 6.5

4 6.7

5 6.7

6 6.1

7 6.9

8 6.9

9 7.2

10 7.5

11 7.9

12 8.0

13 8.3

14 8.7

15 8.7

16 9.0

17 9.2 9.3

18 9.7 9.7

19 Ser.?

20 7

12 : 40

24

September 25, 1915

Serm

9

50

Add 401 9' Pole

502

a 55

b 61 63

c 67

d 71

e 72

f 77

g 80

h 83

i 87

l 90

m 93 95

Near br. in

n

o 9

p

q



September 25, 1915

Se M

AS 401 31 DS 15-15

1 6.9

2 7.2

3 7.5

4 7.5 7.7

5 7.3

6 8.0 7.8

7 7.8

8 7.7

9 8.0

10 8.3

11 8.7

Close to another  
image.

12 8.7?

14 9.5 9.7

15 9.9?

Images elongated. poor.

10 | 20

26

September 25, 1915

D.M.

10	30	AK 469 S' Pole
	<del>50.2</del>	<del>50.2</del>
a	42	
b	5.1	
c	5.5	
d	5.8	
e	6.0	
f	6.5 6.3	
g	6.7	
h	7.1	
k	7.5	
l	7.7	
m	8.0	
n	8.3	
o	8.7 8.5	
p	8.9	
q	9.0 elong.	
r	elong	
s	elong	
t	"	
u		

Saint also very much elongated - not comp. with scale

September 25, 1915

Sc M

AK 469 J' Dg 17-15

- Sc 2
- 1 5.9
  - 2 6.2
  - 3 6.2
  - 4 6.4
  - 5 6.5
  - 6 7.0
  - 7 7.1
  - 8 7.2
  - 9 7.3
  - 10 7.7
  - 11 7.5
  - 12 7.7
  - 13 8.1
  - 14 8.3
  - 15 8.3
  - 16 8.3
  - 17 8.5
  - 18 8.7
  - 19 8.7
  - 20 8.5
  - 21 8.8
  - 22 9.1
  - 23 9.5
  - 24 9.7
  - 25 def-

Images elongated in different direction - but better than Polar images.



September 25, 1915

Sc M

12 10 Ak 472 9' Boh

a 50.2  
49

b 57

c 60

d 62

e 63

f 69

g 73

h 75

i 77

j 81

m 83

n 85

o 85

p 89 87

q 87

r 91

Sonne n. p

t 95

u 98

Images slightly elongated.

September 25, 1915.

S.M.

	AK 472 J <sup>1</sup>		D 11 21-15	
	1	5.2 6.1		
	2	6.5		
	3	6.3		
	4	6.5		
WS	5	<del>6.5</del> 7.0		
ser.	6	6.7		
	7	6.7		
	8	7.0		
	9	7.2		
	10	7.5		
	11	7.5		
	12	7.7		
	13	8.0		
	14	8.3		
	15	8.5		
	16	8.5		
	17	8.7		
	18	9.0 8.8		
	19	8.8		
	20	9.0 8.9		
	21	8.7 8.9		
WS	22	<del>9.2</del> 9.0 <del>9.5</del> 9.7		
	23	9.5 9.3		
	24	9.7 9.5		
	25	9.9 9.8		

12:45

30

September 27, 1915

Sc M

4. 20 AS 432 J' Bhe

5.2

a 5.2

b 5.5

c 6.2

Near defect. d

e 6.8

f 7.2

g 7.5

h 7.9

i 8.5

j 8.7

m 9.0

n 9.3

o 9.5 9.7

p 9.8

Poor Plate



September 27, 1915

ScM

Al S 432 B' Dg 17-15

1 502  
71

2 69

3 70

4 70

5 72

6 79

7 81

8 80

Near defect 9

10 th

11 88

12 89

13 th

14

15

Images from clong.

4: 40

32

September 28, 1915

DeM

3

35

AK 319 Pi Pole

a 5.2  
5.1

b 5.9

c 6.1

d 6.4

e 6.5

f 7.1

g 7.3

h 7.7

k 8.1

l 8.3

m 8.6

n 8.5

o 8.9

p 9.2

q 9.3

r 9.5

From main D

t 9.8

u 7

September 28, 1915

ScM

1 <sup>502</sup> 70 69  
 2 64  
 3 72  
 4 74  
 5 75  
 6 77  
 7 78  
 8 77  
 9 81  
 10 83  
 11 85  
 12 85  
 13 87  
 14 87  
 15 90  
 16 92  
 17 97  
 18 7  
 19

4: 10



September 29, 1915

S.M.

4 ~ AS 385 J' Bole

a	Sc1 44	Sc2 47
b		53
c		55
d		57
e		60
f		65
g		69
h		73
k		78
l		81
m		85 87
n		89
o		92
p		93
q		97

Too close { r  
p

Ft. image from large &amp; large

September 29, 1915

ScM

A 2 385 B' D11 21-15

Does not cover region.

September 29, 1915

Scm

A 2 203 J' Obs.

a 5.2

b 6.1

c 6.3

d 6.5

e 6.7

f 7.2

g 7.5

h 8.0

i 8.3

l 8.5

m 8.8

n 8.9

o 9.1

p 9.3

q 9.5

Too close { n  
p

t 9.9?



September 29, 1915

ScM

AS 303 J' D 12 23-15

50.1

1 7.1

2 69

3 75

4 75

Closest another  
image.

5 75

6 77

7 79

8 79

9 8.1

10 83

11 85

12 85

13 85

14 87

15 90

16 91

16a 9.5

17 98

18 98

19 7

20

4:45

September 30, 1915 Sheet no 25  
 Copied 1327:205

ScM

12 -	AK 281 J'	Pole	
a	5.2 4.3 <sup>4.20<sup>11</sup></sup> 4.1	Diff 1.58	Cur Magn 1.94 6.04
b	4.7	1.96	1.83 6.53 5.79
c	5.1	1.78	1.76 6.86 3.54
d	5.5	1.66	1.67 7.17
e	5.7	1.63	1.64 7.34
f	6.1	1.64	1.60 7.70
g	6.5	1.60	1.59 8.09
h	7.1	1.32	1.59 8.69
k	7.3	1.63	1.60 8.90
l	7.7	1.49	1.63 9.33
m	8.1	1.53	1.66 9.78
n	8.3	1.46	1.72 10.02
o	8.40 <sup>11</sup> 8.5 <sup>83</sup>	1.79	1.73 10.13
p	8.7	1.93	1.78 10.48
q	8.9	1.85	1.84 10.74
r	9.1	1.96	1.89 10.99
ScM	9.3		
ScM	9.7	1.68	2.10 11.80
u	5		



September 30, 1915

Copied B 27:122

Plot no. 70.

Sc M

	AK 281 P1	E 3	b	40-45	Diff. 23.	curv	magn.
1	502 6.1	1.60	7.70		+1.22	1.20	7.30
2	6.1	1.60	7.70		1.05	1.20	7.30
3	6.2	1.60	7.80		1.22	1.22	7.42
4	6.3	1.59	7.89		1.29	1.24	7.54
5	6.3	1.59	7.89		1.57	1.24	7.54
6	6.7	1.59	8.29		+1.25	1.32	8.02
7	6.9	1.59	8.49		$\frac{1.36}{+25}$	1.35	8.25
8	7.3	1.60	8.90		1.39	1.40	8.70
9	7.7	1.63	9.33		1.48	1.43	9.13
10	7.9	1.66	9.56		1.45	1.44	9.34
11	7.9	1.66	9.56		1.52	1.44	9.34
12	$\frac{8.00 \pm 1}{7.9 \ 8.1}$	1.67	9.67		1.52	1.45	9.45
13	$\frac{8.60 \pm 1}{8.5 \ 8.7}$	1.76	10.36		1.19?	1.47	10.07
14	8.5	1.74	10.24		1.24	1.47	9.97
15	8.7	1.78	10.48		1.14	1.47	10.17
16	8.5	1.74	10.24		1.28	1.46	9.96
17	8.9	1.84	10.74		1.75	1.48	10.38
18	$\frac{9.00 \pm 0}{9.0 \ 9.0}$	1.86	10.86		1.65	1.48	10.48
19	9.7	2.10	<u>11.80</u>		<u>1.60</u>	1.48	<u>11.18</u>
20	7						

Seq. not in center of plate. Images fairly good

12:30



September 30, 1915

bcm

2 40 AK 301 P' Pole

a 50.2  
41.39

b 47

c 51

d 55

e 57

f 61

g 63

h 69 71

i 73

j 77

m 81

n 84

o 87

p 90

q 93

r 97

human p

Images from. Plate scratched thro' center.

21 50

September 30, 1915

-bcm

AK 301  $\beta^1$  E 4 9 20-45

Region comes on edge of  
plate.

42

October 1, 1915

Se M

9 40 AK 728 B' Bde.

a 50.2  
48

b 54

c 57

d 61

e 65 67

f 71

g 75 77

h 77

k 82

l

m

Too poor to measure - images elongated + hazy - repeat?



Oct 1, 1915

Sheet no 37

be M

Cupid B27:265

	AK 267	$\delta^1$	Pole.	
	5.2	Diff	Eu	magn
a	52.54	0.58	0.67	5.87
b	59.61	0.76	0.76	6.68
c	61.63	0.78	0.71	6.81
d	63.65 <sup>6.40</sup> <sub>5.5</sub>	0.86	0.73	7.03
e	67.69	0.63	0.75	7.45
f	70	0.74	0.77	7.77
g	73	0.80	0.79	8.09
h	75.76 <sup>7.60</sup> <sub>7.7</sub>	0.82	0.84	8.44
k	78.79 <sup>7.90</sup> <sub>8.0</sub>	1.03	0.93	8.83
l	83	0.89	1.04	9.34
m	85	1.13	1.10	9.60
n	88	0.96	1.20	10.00
o	89	1.29	1.24	10.14
p	91	1.53	1.32	10.42
q	93	1.45	1.40	10.76
r	95?	1.56	1.48	10.98
s	99	1.45	1.63	11.53

near defect

near bi. im.

" " "

near bi. im. P

For E6 see page 44

Scm

October 1, 1915

Copied 1327:148  
Plotting sheet 69.

AK 267 J		E b 14 40-45				
	Sec 2	Cu	Magn	Diff.	Cu.	Rel. Magn.
1	53	0.67	5.97		0.77	6.67 E
2	60	0.70	6.70	0.68	0.81	6.41
3	59	0.70	6.60	0.71	0.80	6.70
4	62	0.72	6.92	0.87	0.82	7.02
5	63	0.73	7.03	1.05	0.83	7.13
6	69	0.76	7.66	0.68	0.86	7.76
7	71	0.77	7.87	0.68	0.87	7.97
8	74	0.80	8.20	0.92	0.89	8.29
9	75	0.82	8.32	0.83	0.90	8.40
10	75	0.82	8.32	0.92	0.90	8.40
11	78	0.89	8.69	1.04	0.93	8.73
12	81	0.97	9.07	0.80	0.97	9.07
13	80	0.95	8.95	0.98	0.96	8.96
14	85 <sup>840</sup> 83	1.07	9.47	1.04	1.01	9.41
15	83	1.05	9.35	1.03	1.00	9.30
16	83	1.05	9.35	1.02	1.00	9.30
17	86	1.13	9.73	1.06	1.05	9.65
18	87	1.16	9.86	1.07	1.07	9.77
19	87	1.16	9.86	1.10	1.07	9.07
20	90 <sup>9.00</sup> 90	1.27	10.27	1.10	1.13	10.13
21	95 <sup>9.60</sup> 97	1.52	11.12	0.91	1.17	10.77
22	97 <sup>9.60</sup> 95	1.52	11.12	0.83	1.17	10.77
23	93	1.40	10.70	1.24	1.16	10.46
24	97 <sup>9.60</sup> 95	1.52	11.12	1.04	1.18	10.78
25	95	1.47	10.97	1.24	1.18	10.68
26	98	1.59	11.39	1.30	1.19	10.99

10.40









Series 672

Sheet no 327

Sc Y

Aug 11 1916

11	40	MC 10954	Pole	PC	C	mc 10959	mc 10965	Mean	Diff
5		5.8		6.1		5.9	5.8	5.93	2 0 1
6				6.4		6.4	6.3	6.38	0 7 3 0.73
8				7.8		7.5	7.4	7.57	3 1 2 0.66
9						8.3	8.3	8.37	1 1 1 0.46
10	4.0	3.9	3.9	3.93	1 00	5.09			
11	4.4	4.3	4.3	4.33	1 00	5.22			
12	4.8	4.8	4.8	4.80	0 00	5.06			
13	5.1	5.2	5.2	5.17	1 00	5.13			
14	5.4	5.6	5.7	5.57	2 01	5.08			
15	6.0	6.1	6.1	6.07	1 00	5.61			
16	6.3	6.4	6.5	6.40	1 01	5.06			
17	6.6	6.6	6.6	6.60	0 00	5.03			
18	7.2	7.20	7.2	7.15	7.15	7.16	0.30	0.02	4.89
19			7.5	7.5	7.5	7.50	0 0 0		4.92
20			7.9	8.0	7.9	7.95	00 05 05		4.78
23			8.5	8.7	8.5	8.60	00 10 10		4.74
25			9.1	9.0	9.10	9.2	9.12	07 02 08	4.75
26			9.8	9.80	.	9.80	0 00 0		4.53



Series 672

Copied B 10:106

Se U

Aug 11, 1916

Card.

Me 10955 brite 17 00 + 10.0				Act. corr +.13	
	e	cu	magn	cu	magn
1	2.5 1.9		5.9	0.73	6.73
2	1.8 1.7		5.6 5.7 5.8	0.74	6.44
3	2.2 2.1		6.2	0.72	6.92
4	2.4 2.3 2.2 2.1		6.1 6.4 6.5	0.70	7.20
5	2.9 2.8		7.8 7.9 8.0	0.56	8.46
6	3.1 3.0		8.0	0.54	8.54
7	3.8 3.7	5.16	8.96	0.47	9.17
8	4.3 4.2	5.15	9.45		
9	5.1 5.0 4.9 5.0	5.14	10.14		
10	6.1 6.0 5.9 6.0	5.04	11.04		
11	6.9 6.8	4.93	11.83		
12	7.3 7.2	7.40 ±	7.5 4.89		12.29
13		8.1	4.81		12.91
14		9.0	4.70		13.70
15		9.3	4.66		13.96
16		9.7	4.63		<u>14.33</u>
17		3			
18					
19					
20					



Series 672

Dev

Aug 11, 1916

Card

mc 10956		17 00 + 20 0		Alt. corr. +1.8	
	B <sub>n</sub>	cu	magn	PC	cu magn
1	1.3			3.34	
2	1.2			5.57 <sup>±1</sup>	0.74 6.44
3	2.1			5.6 5.8	0.70 7.30
4	3.3			6.6	0.48 9.08
5	3.2			8.3	0.43 9.63
6	5.1	5.16	8.96	9.2	
7	5.0	5.12	10.22	8	
8	5.4	5.11	10.51		
9	6.2	5.01	11.21		
10	6.7	6.85 <sup>01</sup> 6.9	4.93 11.78		
11		7.1	4.92 12.02		
12		7.3	4.90 12.20		
13		7.8	4.84 12.64		
14		8.1	4.81 12.91		
15		8.60 <sup>±1</sup>			
16		8.5 8.7	4.75 13.35		
17		8.9	4.72 13.62		
18		9.20 <sup>±1</sup>			
19		9.1 9.3	4.67 13.87		
20		8			

Series 672

Copied B 10:2<sup>3</sup>

Se V

Aug 11, 1916

Cand.

mc 10957 barte 18 00 + 65.0

	cu	magn	pc	cu	magn	Alt. corr +.19
1	2.3		4.1	0.64	7.84	
2	2.0			7.4	0.62	8.02
3	3.3 3.45 3.6			8.3	0.51	8.81
4	3.8 3.70 3.6			9.1	0.44	9.54
5	4.3	5.16	9.46	9.8	0.39	10.19
6	4.4	5.15	9.55	8		
7	5.1	5.13	10.23			
8	5.2	5.13	10.33			
9	5.8	5.07	10.87			
10	6.6	4.96	11.56			
11	7.1 7.10 <sup>00</sup>	7.1	4.92	12.02		
12		7.3	4.90	12.30		
13		7.5	4.88	12.38		
14		7.5	4.88	12.38		
15		7.9	4.84	12.74		
16		8.3	4.79	13.09		
17		8.9 8.95 <sup>10</sup>	4.71	13.66		
18		9.97	4.60	14.50 <sup>2</sup>		
19		3				
20						



Series 672

Copied B 9:186

SeV

Aug 11, 1916

2 00

MC 10957

W Draconis

alt. corr +.19

	alt	magr	alt	magr
a	2.3		0.72	7.02
b	2.0			
c	2.1		0.74	6.54
d	2.0		0.68	7.48
e	1.9		0.67	7.72
f	2.3			
g	2.2			
h	3.0		0.56	8.46
i	2.9		0.43	9.58
j	3.9		0.42	9.82
k	3.8	5.16	9.00	
l	4.0 4.10 <sup>1</sup>	5.16	9.26	
m	4.0 4.2	5.13	10.33	
n	4.1	5.16	9.06	
o	5.1	5.05	10.95	
p	5.9	5.07	10.87	
q	5.8	5.05	10.95	
r	5.7	5.04	11.04	
s	5.9	5.00	11.20	
t	6.0	4.95	11.65	
u	6.2	7.2	4.92	12.02
v	6.1	7.2	4.91	12.11
w	6.7 7.0 <sup>1</sup>	7.3	4.90	12.20
x	6.6 6.8	7.8	4.85	12.65
y	6.5 6.7	8.2	4.80	13.00
z	7.0	8.5	4.77	13.27
aa	6.9 7.10 <sup>1</sup>	9.2	4.68	13.88
ab		f		



52

Series 672

Copied 1310:47

SeV

Aug 11, 1916

Card.

mc 10958 Contd.

act. corr +.23

	cu	magn	pc	cu	magn
1	3.8		7.35 ± 1		
2	3.3		7.275	0.63	7.98
3	3.8	5.16	9.06	0.48	9.08
4	4.3	5.16	9.46	0.40	10.00
5	4.8	5.14	9.94	0.38	10.28
6	5.2	5.13	10.33		
7	6.2	5.00	11.20		
8	6.1	5.02	11.12		
9	6.4	4.99	11.39		
10	6.6	4.97	11.57		
11	7.4	7.40	7.40	9.0	12.30
12	7.5	4.89	12.29		
13	7.6	4.87	12.47		
14	7.8	4.84	12.64		
15	8.3	4.78	13.08		
16	8.5	4.76	13.36		
17	8.9	4.71	13.66		
18	9.2	4.68	13.88		
19	9.9	4.60	14.50		
20	7				

Report See next page.

Series 672

Sc V

Aug 11, 1916

mc 10959

~~Card 18~~  $0.8 \pm 46.5$  Pole

1 B

C

B

c

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

23

25

26

27

29

5.9

5.8

6.4

6.0

7.5

8.3

8.5

9.1

9.5

3

3.9

3.8

4.3

4.2

4.8

4.7

5.2

5.1

5.6

5.5

6.1

6.0

6.4

6.3

6.6

6.5

7.1

7.0

7.15<sup>10</sup>

7.2

7.5

8.0

8.7

9.10<sup>00</sup>

9.1

9.1

9.80<sup>19</sup>

9.7

9.9

See page 47



Copied B 10:131

Series 672

Dev

Aug 11, 1916

Card

mc 10960 c

Cont 18 59-25

Att. corr +.03

	cu	magn	cpc	cu	magn
1	3.3		8.4	0.50	8.90
2	3.4	5.16	8.9	0.46	9.36
3	4.3	5.16	8		
4	4.4	5.16			
5	4.9	5.14			
6	5.1	5.13			
7	5.7	5.07			
8	5.7	5.07			
9	6.0	5.03			
10	6.5	4.97			
10	6.8	4.93			
11	6.9	4.92			
12	7.5	4.88			
13	7.9	4.84			
14	8.0	4.83			
15	8.5	4.75			
16	8.9	4.72			
17	9.2	4.68			
18	9.5	4.64			
19	9.7				
20					



Series 672

Opaid BT:144

ScV

Aug 11, 1916

Cord

Mc 10961		19		2 Ks		act. corr +.05	
		cu	magn	pc	cu	magn	
1	3.2 3.2 4.1 4.2			9.60 <sup>±1</sup> 9.5 9.7			
2	4.0	5.16	9.36		0.40	10.00	
3	4.8	5.15	9.95	7			
4	5.2	5.13	10.33				
5	6.1 6.6 6.7	5.02	11.12				
6	6.5	4.96	11.66				
7	7.1 7.0 7.15 <sup>±1</sup>	4.91	12.06				
8		8.1	4.80				
9		8.5 8.7	4.75	13.35			
10		8.9	4.72	13.62			
11		9.1	4.70	13.80			
11a		9.5 9.7	4.64	14.24			
12		9.5	4.65	14.15			
13		9.5	4.65	14.15			
14		9.8	4.62	14.42			
15		9.5					

Series 672

Scv

Aug 11, 1916

Card

MC 10962 RR Synch 19 28 + 42.5  
B13 C AT T Synch PC  
1.2 mag 6.4

Alt. corr +.23

~~J S Synner?~~

a	2.3
b	1.2
c	2.1
d	0.0
e	2.9
f	2.4
g	2.3
h	3.1
i	3.0
j	3.3
k	3.2
l	4.0
m	3.9

5,16                      9,16

4.3  
4.2  
4.2  
4.1  
4.4  
4.3

5.16 9.46

5,16                      9,36

5,16                      9,56

55.1

5,13      10,23

$\frac{5.2}{6.0} = 0.8667$   
 $\frac{5.9}{6.0} = 0.9833$

5,12      10,42

W 5.9 6.0

5.02 11.07

3 56.0

5103 11.03

6.2

5.00 11.20

6.2

5.00 11.20

6.1  
6.4

11 20

9.67

6.85<sup>01</sup> 69 4.94 11.79

21

4.93      11.93

2

601  
1187 1247

+

4.80 1290

Added by J.M.  
Aug 11, 1916

$$\left\{ \begin{array}{l} w \\ x \\ z \end{array} \right.$$

601  
54 4.75 133.5

4.70 13.70

4.6<sup>3</sup> 14.3

PC	$\leftarrow C_u$	$\rightarrow C_{mg}$
6.4	0.71 <del>5.00</del>	7.11 <del>11.40</del>
7.0	0.67 <del>4.93</del>	7.67 <del>11.93</del>
7.8	0.57 <del>4.54</del>	8.37 <del>12.64</del>
7.0	0.67 <del>4.93</del>	7.67 <del>11.93</del>
8.20	0.53	
83	8.1 <del>4.50</del>	8.73 <del>13.00</del>
89	0.45 <del>4.75</del>	9.35 <del>13.62</del>



Series 672

Cepheid 13 7:149

ScV

Aug 11, 1916

Card.

mc 10963 7 Ks 19 34 + 29.4 alt. corr. +.21

	cu	magn	8.95	cu	magn
1	1.6		6.0	0.72	6.72
2	3.0		8.7	0.47	9.17
3	3.1		8.5	0.49	8.99
4	5.3	5.12			10.42
5	6.3	5.00			11.30
6	7.2	7.25 <sup>01</sup>	7.3	4.90	12.1 <sup>5</sup>
7		7.60 <sup>01</sup>	7.5	4.87	12.47
8			7.9	4.84	12.74
9			8.1	4.81	12.91
10			8.1	4.81	12.91
11		8.95 <sup>01</sup>	8.9	4.71	13.66
12		9.60 <sup>01</sup>	9.5	4.64	14.24
13			9.7	4.63	<u>14.33</u>
14			8		
15					



Series 672

Copied B7:139

Dev

Aug 11, 1916

Cand.

	mc 10964	136 K	20	10-15.1	Ext. corr -19
1	3.1 3.0	Cu	magn	cpc	Cu
2	3.2		83.7	0.50	magn 8.80
3	4.4 4.3		8.2	0.51	8.71
4	4.8 4.6, 0.501	5.16	9.56		
5	6.0 6.1 5.9 6.0 6.6 6.7 6.8	5.14	10.04		
6	6.5 6.7	5.03	11.08		
7	7.4 7.45 <sup>01</sup> 7.3	4.96	11.66		
8		7.5 8.0 8.1	4.89 4.82	12.34 12.87	
9		8.7	4.74	13.44	
10		8.9	4.71	13.61	
11		9.3	4.67	13.97	
12		9.3	4.67	13.97	
13		9.7 9.9 9.80 <sup>01</sup>	4.62	14.42	
14		f			
15					

PCs not comp with scale

Series 672

ScV

Aug 11, 1916

MC 10965<sub>c</sub> Pole

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

23

25

26

3.9

3.8

4.3

4.2

4.8

4.1

5.2

5.1

5.7

5.6

6.1

6.0

6.5

6.4

6.6

6.5

7.1

7.0

7.15<sup>10</sup>

7.2

7.5

7.9

8.5

9.2

7

10 pc

5.8

5.7

6.3

6.2

7.4

8.3

8.5

8.5

9.2

9.2

8

8

5

wo

See page 47

Series 669

Sheet no 326

Se V

August 16, 1916

1	40	mc 10908	Pole	P.C.			
		B	mc 10913	5.3	5.3	5.35 <sup>0.1</sup>	1.14
5			P 67	5.4			
6				6.2	6.3	6.25 <sup>0.1</sup>	0.86
8				6.1			
9				7.5	7.65	7.58 <sup>0.07</sup>	0.65
10				8.3	8.5	8.40 <sup>0.1</sup>	0.43
11	3.4	3.4	3.40 <sup>0.0</sup>	8.60 <sup>0.1</sup>	8.7	8.65 <sup>0.05</sup>	0.37
12	4.1	4.2	4.15 <sup>0.1</sup>	5.40	9.2		0.25
13	4.5	4.8	4.65 <sup>0.12</sup>	5.21	9.7		0.16
14	5.2	5.2	5.20 <sup>0.0</sup>	5.10	9.8		
15	5.6	5.8	5.70 <sup>0.1</sup>	4.95			
16	6.2	6.2	6.20 <sup>0.0</sup>	4.88			
17	6.5	6.6	6.55 <sup>0.10</sup>	4.85			
18	6.8	6.85	6.82 <sup>0.03</sup>	4.81			
19	7.3	7.4	7.40 <sup>0.00</sup>	4.66			
20	7.7	7.7	7.75 <sup>0.1</sup>	4.67			
21	8.0	8.1	8.05 <sup>0.01</sup>	4.68			
22	8.85 <sup>0.1</sup>	9.0	8.98 <sup>0.02</sup>	4.36			
23	9.0	9.0	9.05 <sup>0.05</sup>	4.22			
24	9.60 <sup>0.1</sup>	9.7	9.75 <sup>0.05</sup>	4.22			
25	9.8						
26							
27							



Series 669

Copied B 10:23

SeV

August 10, 1916

Card.

mc10909 e		Barte 18 00 + 65		act. err +.18	
		cu	magn	PC B	
1	2.0				7.60 ± 1
2	3.3	5.64	8.94		7.77
3	3.4	5.62	9.02		8.10
4	3.7	5.50	9.30		8.1
5	4.4	5.32	9.72		8.65 ± 1
6	4.7	5.21	10.01		8.8
7	5.0	5.16	10.16		9.3
8	5.3	5.10	10.40		9.40 ± 1
9	5.8	4.98	10.88		9.5
10	6.4	4.88	11.28		9.60 ± 1
11	6.8	4.80	11.60		9.7
12	7.1	7.20 ± 1	4.67	11.87	9.9
13		7.5	4.66	12.16	8
14		7.8	4.58	12.38	
15		8.0	4.54	12.54	
16		8.5	4.44	13.04	
17		9.0	4.34	13.44	
18		9.7	4.25	13.95	
19		4.			
20					

Copied B 9:186

Series 669

Dev

August-16, 1916

Card.

MC 10909 (cont)			W. Dracenis		alt. corr +.18	
	Cu	magn	B	C	cu	magn
a	2.8		6.3		0.88	7.18
b	1.3		5.5		1.10	6.60
c	2.1		6.8		0.76	7.56
d	2.3		7.1		0.69	7.79
d'	3.0		7.0			
e	4.0	4.05		80	0.50	8.50
f	4.2	4.1	5.42	93	0.25	9.35
f'	5.2		5.33	95	0.21	9.71
g	5.1		5.11	8		
h	4.0		5.03	91	0.28	9.38
h'	5.9		4.97			
i	5.7		5.01			
j	5.6		5.00			
k	5.7					
m	6.1		4.95			
n	6.2		4.93			
o	6.6		4.86			
p	6.5		4.72	72		
q			4.70	73		
r	7.40		4.67	75		
r'	7.7		4.61	77		
s	8.60		4.43	85		
t	8.80		4.40	87		
u	9.40		4.30	93		
v	9.5			95		
w						



Series 669

Copied B10:47

Dev

August 16, 1916

Card.

mc 10910  $\log 18.00 + 46.5$   $\log 18.00 + 46.5$   $\log 18.00 + 46.5$

		alt.	mag	mag
1	2.8	75	0.61	8.11
2	3.4	88	1.33	9.13
3	4.1	95	0.19	9.79
4	4.3	98	0.16	9.96
5	5.2	8		
6	5.9			
7	6.2			
8	6.4			
9	6.6			
10	6.7			
11		75	4.65	12.15
12		78	4.58	12.38
13		79	4.56	12.46
14		81	4.50	12.62
15		83	4.47	12.77
16		85	4.43	13.03
17		92	4.33	13.53
18		93	4.27	13.67
19		98	4.22	14.02
20		8		



64

Dev

Copied 38:32

Series 669

August 16, 1916

Mc 10911

Ref

alt. corr +.21

		cu	magn	pc	c	cu	magn
1	2.2					6.74	7.64
2	3.1	5.73	8.83		7.8	0.53	8.33
3	3.2	5.66	8.96		8.1	0.47	8.57
4	3.8	5.50	9.30		8.60 <sup>±1</sup>		
5	4.3	5.36	9.66		8.5	0.36	8.96
6	5.2				9.60 <sup>±1</sup>		
7	5.1	5.12	10.32		9.5	0.19	9.79
8	6.2				8		
9	6.1	4.93	11.13				
10	6.4	4.88	11.28				
11	6.8	6.85 <sup>01</sup>	4.80	11.65			
12	7.2	4.72	11.92				
13	7.5	4.66	12.16				
14	7.8	4.58	12.38				
15	8.0	4.54	12.54				
16	8.1	4.52	12.62				
17	8.8	4.40	13.20				
18	9.0	4.36	13.36				
19	9.75 <sup>±0</sup>						
20	9.7	4.22	13.94				
21	+						

Series 669

Epoch 13 9a: 172

Card.

Sel

August 16, 1916

R Z Draco

	mag	10914	C	cu	magn	13	pc	C	Oct. cov +.21	magn
a	3.4			5.63	9.03			8.3	0.43	8.73
a'	4.3			5.36	9.66			9.5	0.21	9.71
b	2.9							7.4	0.64	8.04
c	5.3			5.10	10.40			9.8	0.16	9.96
d	5.2									
d'	5.4			5.07	10.47					
e	5.3									
e'	6.4			4.88	11.28					
f	5.2			5.12	10.32					
f'	5.1									
g	6.1			4.94	11.04					
g'	6.0									
h	6.8			4.80	11.60					
h'	6.7									
i	7.1	7.20 <sup>11</sup>	7.3	4.73	11.93					
i'	7.0									
j			7.8	4.58	12.38					
j'			8.60 <sup>21</sup>							
k			8.5	8.7	4.44	13.04				
k'										
l			8.8	4.40	13.20					
l'										
m			9.0	4.36	13.36					
m'										
n			9.2	4.33	13.53					
n'			9.80 <sup>21</sup>							
o			9.7	9.9	4.21	14.01				
o'										
p										
p'										
q										
q'										
r	4.7			5.24	9.94					
r'	4.6									



66

Series 669

Copied B9a:171

Cand.

Se V

August 16, 1916

mc 10912 R X Hercules			pc			alt. over +.15		
	pc	magn					pc	magn
a	1.78						0.96	6.96
b	2.2						0.80	7.40
c	2.4							
d	3.2							
e	3.4		5.70	8.90				
f	3.4		5.63	9.03				
g	4.4							
h	4.4							
i	4.4							
j	4.4							
k	4.4		5.33	9.73				
l	4.4		5.33	9.73				
m	4.4		5.10	10.40				
n	4.4		5.07	10.47				
o	4.4							
p	4.4							
q	4.4							
r	4.4							
s	4.4							
t	4.4							
u	4.4							
v	4.4							
w	4.4							
x	4.4							
y	4.4							
z	4.4							



Series 669

SeV

August 16, 1916

Mc 10913

Bole.

5

5.3  
5.2

r

6

6.3  
6.2

8

7.6  
7.57.65<sup>-0.8</sup>

7.7

9

8.5

10

3.4  
3.3

8.7

11

4.2  
4.1

8.7

12

4.8  
4.7

7

13

5.2  
5.1

14

5.8  
5.7

15

6.2  
6.1

16

6.6  
6.5

17

6.8  
6.76.85<sup>0.1</sup>

6.9

18

7.4

19

7.8

20

8.1

23

9.9

25

9.7

26

7

H

vo

See page 61

68

Series 669

Sheet no 326

Dev

August 17, 1916

1	55	mc 10913	Pole	pc	c	
5		3.4		5.6		0.89
6		3.3		5.5		0.71
8		4.2		6.4	7.60 ± 1	0.63
9		4.1		6.3	7.5	0.33
10		4.60 ± 1	5.62		8.5	0.32
11		4.5	5.35		8.7	0.05
12		4.7	5.26		9.5	
13		5.2	5.10		7.	
14		5.9	4.75			
15		6.2	4.88			
16		6.6	4.80			
17		6.8	4.73			
18		6.7	4.56			
19		6.90 ± 1	4.72			
20		7.0	4.73			
23		7.5	4.34			
25		7.7	4.07			
26		7.80				







70

Series 669

Copied B9a:170

Cand.

Dev

August 17, 1916

mc 10915 WY Cygni				alt. corr +.23		
	e	lu	magn	B	Pe	
a	2.7					8.2
b	3.4	5.64	9.04			8.3
c	4.0					7.9
d	3.9	5.44	9.44			9.3
e	4.8	5.22	10.02			
f	4.1	5.40	9.50			
g	4.9	5.18	10.08			
h	4.3	5.28	9.78			
i	5.8	4.94	10.74			
j	6.2	4.84	11.04			
k	6.4	4.80	11.20			
l	6.3	4.82	11.12			
m	6.6	4.74	11.44			
n	6.5	7.1	4.66	11.76		
o	6.1	7.2	4.63	11.83		
p	6.15	7.9	4.51	12.41		
q	6.2	4.85	11.00			
r	6.0	8.0	4.49	12.49		
s	6.1	8.5	4.38	12.88		
t	6.2	8.7	4.34	13.04		
u	6.0	9.5	4.14	13.74		

Star image  
p.c. not  
seen

Riff-shape

Series 406  
521?

Sheet no 327

Per

August 19, 1916

10

mc 7286 Sole

pe

e

5	4.0	4.10 <sup>12</sup>	2.39
6	4.8	4.90 <sup>11</sup>	2.31
8	5.8	5.85 <sup>10</sup>	2.38
9	6.8	6.85 <sup>01</sup>	1.98
10	7.1	7.15 <sup>01</sup>	1.87
11	7.7	7.70 <sup>00</sup>	1.85
12	8.1	8.10 <sup>00</sup>	1.76
13	8.4	8.45 <sup>05</sup>	1.85
14	8.9	8.95 <sup>10</sup>	1.70
15	9.3	9.30 <sup>00</sup>	1.78
16	9.7	9.75 <sup>11</sup>	1.60
17	10.0		
18			
19			
20			
23			
25			
26			
27			
28			
29			
30			



72

Series 406  
524

Card.

Sel

August 19, 1916

Me 7287 c			4 10 + 22.5 pc		alt. corr +.19		magm	
					C	a		
1	2.0	6.49	9.19	6.7	6.9	1.98	8.83	
2	2.7	6.49	9.29		7.5	1.88	9.38	
3	2.8	6.49	9.29		7.7	1.87	9.57	
4	3.4	6.50	9.90		8.1	1.82	9.92	
5	3.9	6.47	10.37		8.8	1.75	10.55	
6	4.4	6.43	10.83		9.5	1.68	11.28	
7	5.0	6.36	11.36					
8	5.3	6.31	11.61		9.1			
9	6.1	6.19	12.29					
10	6.3	6.16	12.46					
11	6.6	6.10	12.70					
12	6.8	6.03	12.93					
13	7.4	7.3	13.35					
14	7.9	7.3	13.28					
15	8.6	7.5	13.53					
16	9.0	7.8	13.70					
17	9.8	8.5	14.32					
18	10.0	8.9	14.70					
19	10.5	9.1	14.85					
20	10.6	9.5	15.45					



Series 406  
521

Cand.

Scv

August-19, 1916

mc 7288 Eros			alt. corr. +.15				
	c	magn	c	cu	magn		
1	2.7 2.6	6.49	9.19	7.3	1.92	9.22	
2	3.3 3.2	6.50	9.80	8.0	1.84	9.84	
3	3.5 3.4	6.50	10.00	8.3	1.80	10.10	
4	4.1 4.0	6.45	10.55	9.0 <sup>8.95</sup>	8.9 <sup>0.1</sup>	1.74	10.69
5	4.3 4.2	6.44	10.74	9.1 <sup>9.10</sup>	9.1 <sup>0.0</sup>	1.73	10.83
6	5.0 4.9	6.36	11.36	9.5 <sup>9.60</sup>	9.7 <sup>0.1</sup>	1.68	11.28
7	5.4 5.3	6.30	11.70	7			
8	6.0 5.9	6.21	12.21	9.7			
9	6.0 5.9	6.20	12.25				
10	6.2 6.1	6.17	12.37				
11	6.2 6.1	6.17	12.37				
12	6.5 6.4	6.12	12.62				
13	6.5 6.4	6.12	12.62				
14	7.3 7.2	7.45 <sup>1.2</sup> 7.5 <sup>1.1</sup>	7.5 7.595	13.40			
15		7.7	5.91	13.61			
16		7.9	5.87	13.77			
17		8.5	5.82	14.32			
18		8.9 <sup>8.95</sup>	5.80	14.75			
19		9.5 <sup>9.60</sup>	5.85	15.45			
20		9.9	5.95	15.85			

74

Series 406  
521

Copied B7:161

Card.

Det

August-19, 1916

mc 7289		19 kb		pc	det. corr +.21	C		lu	magn
1	2.05			6.32				2.07	8.27
2	2.8			6.1					
2	5.1			7.2	7.25"	7.3		1.92	9.19
2	5.0					9.7		1.65	11.38
4	5.4			6.30		9.8		1.67	11.47
5	6.2			6.17		7			
6	6.6	6.65"	6.7	6.08					
7	6.5	6.65"	6.7	6.08					
8	6.5	6.65"	6.7	5.94					
9			7.3	5.97					
10			8.1	5.86					
11			8.1	5.86					
12			8.40"	5.82					
13			8.9	5.80					
14			9.0	5.80					
15			9.50"	5.84					



Series 406  
521

Cand.

Sel

August-19, 1916

Me 7290			DM 521			5 10 + 32.5			Ret. corr + .22.		
1	3.0 <sup>3</sup> 2.9 <sup>28</sup> 2.7	2.90 <sup>11</sup>	6.49	9.39	6.9	7.0 <sup>13</sup> 7.00 <sup>00</sup>	7.0	1.95	8.95		
2	3.3 3.2		6.50	9.80			7.5 <sup>2.60<sup>11</sup></sup> 7.7	1.87	9.47		
3	4.3 4.2		6.44	10.74			8.8	1.84	10.64		
4	4.4 4.3		6.43	10.83			9.0	1.74	10.74		
5	4.4 4.3		6.43	10.83			9.0	1.74	10.74		
6	5.3 5.2		6.31	11.61			9.7	1.68	<u>11.38</u>		
7	5.2 5.1		6.33	11.53			St. sup.				
8	5.4 5.3		6.30	11.70			7				
9	6.2 6.1 <sup>6.30<sup>11</sup></sup>		6.17	12.37							
10	6.2 6.1 <sup>6.4</sup> 6.3		6.07	12.37							
11	6.4 6.3		6.14	12.54							
12	6.6 6.5		6.10	12.70							
13	6.8 6.7 <sup>6.85<sup>01</sup></sup>	6.9	6.05	12.90							
14		6.60 <sup>11</sup> 6.5 <sup>6.7</sup> 6.10		12.70							
15		7.3 <sup>5.98</sup>		13.28							
16		7.60 <sup>11</sup> 7.5 <sup>7.7</sup> 5.93		13.53							
17		7.9 <sup>5.88</sup>		13.78							
18		8.5 <sup>5.82</sup>		14.32							
19		8.7 <sup>5.80</sup>		14.50							
20		9.40 <sup>11</sup> 9.3 <sup>9.5</sup> 5.83		15.23							

76

Series <sup>406</sup> 521

Dev

August 19, 1916

me 729, 800.

5	B	4.83	c
6		3.9	
8		4.8	
9		5.8	
		5.7	
		6.8	
		6.7	6.85-01
			6.9
10	2.4		7.1
	2.3		
11	3.1		7.7
	3.0		
	3.4		8.1
12	3.3		8.40-1
	3.6		8.3 8.5
13	4.1		
	4.2		9.0
14	4.7		
	4.6		9.3
15	5.1		
	5.0		9.9?
16	5.3		
	5.2		7
17	5.8		
	5.7		
18	6.3		
	6.2		
19	6.6		
	6.5		
20			
23		7.5	
25		8.0	
26		8.5	
27		8.9	
28		9.3	
29		9.7	
30		10.0?	

2 45

See page 71



Series 527

Sheet no 325

Set

August 21, 1916

11	20	McQ25	Bolt	PC	C				
		B	C	mc9030 P82	5.2 5.1 5.8 5.7 7.0 6.9				
5						5.2	5.20 <sup>00</sup>	1.29	
6						5.9	5.85 <sup>01</sup>	1.26	
8						7.1	7.10 <sup>02 02</sup>	1.15	
9						7.7	7.8 <sup>10</sup>	1.08	
10	3.4 3.3			3.3 3.35 <sup>01</sup>	5.67	8.1	7.9 <sup>11</sup>	1.02	
11	3.9 3.6			4.0 3.95 <sup>10</sup>	5.60	8.9	9.0 <sup>10</sup>	0.60	
12	4.3 4.2			4.4 4.35 <sup>10</sup>	5.51	9.2	9.60 <sup>20 20</sup>	0.46	
13	4.7 4.6			4.9 4.80 <sup>11</sup>	5.50	9.7	9.7 <sup>11</sup>	0.70	
14	5.2 5.1			5.2 5.20 <sup>00</sup>	5.45				
15	5.8 5.7			5.6 5.70 <sup>11</sup>	5.48				
16	6.2 6.1			6.3 6.25 <sup>01</sup>	5.15				
17	6.4 6.3			6.6 6.50 <sup>11</sup>	5.13				
18	6.8 6.7	6.90 <sup>11</sup>	7.0	7.00 6.95 <sup>05 05</sup>	5.11				
19			7.3	7.3 7.30 <sup>00</sup>	5.12				
20			7.60 <sup>11</sup>	7.6 7.65 <sup>05 05</sup>	5.08				
23			8.1	8.3 8.20 <sup>11</sup>	5.14				
25			9.1	9.1 9.10 <sup>00</sup>	4.77				
26			9.7	9.7 9.70 <sup>00 4</sup>	4.63				
27			9.9		4.79				
28			7						

78

Series 527

Copied B 10:169

Set

August 21, 1916

Mc 9026,  $\mu = 18$   $\mu - 23.5$  (Plate broken)  $\mu = 43$

	C	en	magn	B	C	en	magn
1	2.3				7.00 $\pm$ 1	1.17	8.17
2	2.4				7.3	1.13	8.43
3	2.8				7.7	1.06	8.76
4	3.2				8.2	0.98	9.18
5	3.7	5.61	9.41		8.7	0.83	9.53
6	3.8	5.61	9.41		8.7	0.83	9.53
7	4.2	5.55	9.75		9.60 $\pm$ 1	0.48	10.08
8	4.2	5.55	9.75		9.5	0.52	10.02
9	5.0	5.43	10.43				
10	4.9	5.44	10.34				
11	5.8	5.30	11.10				
12	6.2	5.26	11.46				
13	6.3	5.25	11.55				
14	5.6 5.9 6.75	5.32	11.07	11.94			
15	6.2 7.2	5.26	11.46	12.33			
16	6.6 7.6	5.20 5.10	11.80	12.70			
17		7.9 5.05	12.95				
18		8.00 $\pm$ 1 7.9 8.1 5.03	13.03				
19		8.60 $\pm$ 1 8.7 8.5 4.93	13.53				
20		8.60 $\pm$ 1 8.5 8.7 4.93	13.53				

On edge of  
break

WS

Stars 14, 15, 16, appear to be measured 0.5 magn. too bright. If a mistake of a unit is assumed, they are much too faint. Reject these 3 stars.

Images poor.



Series 527

Copied 1310:143

SeV

August 21, 1916

Mc 9027 Carte 100 - 10.0 (broken)

		cu	magn	c	cu	magn
17	1	2.4 2.3 2.6	6.8 6.7	6.85 <sup>01</sup>	6.9	1.19
43	2	2.5 3.0			7.8	1.06
76	3	2.9 3.3			8.1	1.00
18	4	3.2 4.4			8.5	0.90
53	5	4.3 5.0 <sup>10</sup>	5.52		8.9	0.39
53	6	5.1 5.0 <sup>10</sup>	5.41			10.19
08	7	4.8 4.7	5.46			
02	8	6.2 6.1	5.26			
	9	6.3 6.2	5.24			
	10	7.0 6.9	7.05 <sup>01</sup>	5.15		
	11		7.3	5.12		
	12		7.6 <sup>01</sup>	5.09		
	13		7.8	5.06		
	14		7.9	5.05		
	15		8.1	5.03		
	16		8.1	5.03		
	17		8.6 <sup>01</sup>	4.93		
	18		8.7	4.90		
	19		8.9	4.87		
	20		9.8	4.70		

Series 527

Dev

August 21, 1916

MC 9028

DM 90 18 00-5

alt. corr. -01

	cu	magn	e	cu	magn
1	2.05 1.9			1.26	7.36
2	2.4 2.3		7.2	1.14	8.34
3	3.3 3.2		8.2	0.98	9.18
4	3.4 3.3	5.68		8.7	8.60 <sup>12</sup> 8.50.87
5	4.2 4.1	5.54		9.7	0.94
6	5.1 5.0	5.41			10.14
7	5.5 5.4	5.34			
8	6.2 6.1	5.26			
9	6.4 6.3	5.24			
10	7.0 6.9	5.17			
11	7.1 7.0	7.15 <sup>10</sup> 7.2			
12		7.5			
13		8.2			
14		8.9			
15		9.60 <sup>11</sup> 9.59.7			



Series 527

Epoch 138:90

bcV

August 21, 1916

me 9029 b 10 19 00 + 15 pc

cor + .14

		cu	magn	pc	e	cu	magn
36	1	1.13	5.13			1.28	6.58
34	2	1.9	5.2			1.24	7.54
8	3	1.8	6.2			1.25	7.45
47	4	1.9	6.1			1.23	7.63
14	5	2.4	6.4			1.10	8.50
	6		7.4	7.40 <sup>00</sup>	7.4		
	7	2.4	7.3		7.30 <sup>11</sup>		
	8	3.2	7.4		7.4 7.2 1.12		8.42
	9	3.8	7.8		1.06		8.86
	10	4.1	8.7	5.61	0.84		9.54
	11	4.4	9.1	5.56	0.67		9.77
	12	5.1	9.6	5.52	0.48		10.68
	13	5.4	9.9	5.41			
	14	6.0	10.5	5.36			
	15	6.1	11.2	5.28			
	16	6.3	11.3	5.27			
	17	7.0	11.5	5.25			
	18	7.00 <sup>00</sup>	12.1	5.16			
	19	7.5	12.6	5.10			
	20	7.8	12.9	5.04			
	21	8.3	13.2	4.98			
	22	8.7	13.6	4.91			
	23	9.5	14.3	4.74			
	24	9.7	14.4	4.73			
	25	9.9	14.5	4.69			
	26						
	27						
	28						
	29						
	30						
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						
	51						
	52						
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	60						
	61						
	62						
	63						
	64						
	65						
	66						
	67						
	68						
	69						
	70						
	71						
	72						
	73						
	74						
	75						
	76						
	77						
	78						
	79						
	80						
	81						
	82						
	83						
	84						
	85						
	86						
	87						
	88						
	89						
	90						
	91						
	92						
	93						
	94						
	95						
	96						
	97						
	98						
	99						
	100						

82

Series 527

dev

August 21, 1916

MC 9030

Bolt

BC

C

5	B			5.7		
6				5.9		
8				5.8		
9				7.6	7.10 <sup>00</sup>	7.1
10	3.3					7.8
11	3.2					7.9
12	4.0					9.0
13	3.9					9.60 <sup>01</sup>
14	4.4					9.597
15	4.3					
16	4.9					
17	5.2					
18	5.1					
19	5.6					
20	5.5					
21	6.3					
22	6.2					
23	6.6					
24	6.5					
25	7.0	7.00 <sup>00</sup>	7.0			
26	6.9					
27			7.3			
28			7.7			
29			8.3			
30			9.1			
31			9.7			
32			8			

See page 77



Series 527

Copied 137:1149

SeV

August 21, 1916

me qv31 c			7 Ks 19 34 + 29.4		alt corr + .21		
			at	magn	e	cu	magn
1	1.7					12.5	7.45
2	3.1				78	1.06	8.86
3	2.2				80	1.02	9.02
4	5.7		5.30	11.10	8		
5	6.3		5.25	11.55			
6	6.9	7.00 <sup>11</sup>	5.16	12.16			
7			5.13	12.43			
8			5.06	12.96			
9			5.02	13.12			
10			4.99	13.29			
11			4.87	13.77			
12		9.20 <sup>11</sup>	4.82	14.02			
13		9.40 <sup>11</sup>	4.77	14.17			
14		9.80 <sup>11</sup>	4.70	14.50			
15							

84

Series 527

Copied 137:67

Sel

August 21, 1916

alt corr + 2.1

	Mc 9032	64 K	19	58 + 29.9	C	Cu	magn
1	2.84				72	1.14	8.34
2	3.3				82	0.35 ± 1	9.29
3	4.0				93	0.60	9.90
4	4.4	5.57	9.57		97	0.75 ± 0	10.16
5	5.9	5.51	9.91				
6	6.2	5.30	11.20				
7	7.1	5.25	11.45				
8	7.15 ± 0	5.14	12.29				
9	7.60 ± 1	5.10	12.70				
10	8.3	4.99	13.29				
11	8.9	4.86	13.76				
12	9.40 ± 1	4.77	14.17				
13	9.7	4.73	14.43				
14	9.8	4.70	14.50				
15	?						

Over Plate.



Series 527 Copied 139a:33

SeV

August 21, 1916

Me 9033 NYC 8940 20 30 + 27.5

act corr + .21

	c	cu	magn	c	cu	magn
1	2.7 <sup>2.55</sup> 2.6 <sup>2.4</sup> 2.3			7.7	1.07	8.77
2	2.4 2.3			7.5 <sup>7.60</sup> 7.7	1.09	8.69
3	3.3 3.2			8.5	0.90	9.40
4	4.0 3.9	5.57	9.57	9.2 <sup>9.10</sup> 9.0	0.68	9.78
5	4.4 4.3	5.51	9.91			
6	5.0 4.9	5.43	10.43			
7	5.4 5.3 <sup>5.30</sup>	5.35	10.95			
8	6.2 6.1 6.0	5.24	11.54			
9	6.8 6.95 <sup>7.0</sup>	5.16	12.11			
10		7.9 5.06	12.96			
11		8.7 4.91	13.61			
12		8.8 4.88	13.68			
13		8.7 4.91	13.61			
14		9.5 4.76	14.26			
15		9.80 <sup>9.7</sup> 9.9 4.71	14.51			

2. ~

Remaining plates in this series too poor to measure

Series 666

Sheet no 329.

Sc 7

September 12, 1916

1	10	MC 10880	Pole	PC		
	5	13	MC 10886 P94	4.9		4.59
	8			7.2	7.1 7.15 <sup>0.1</sup>	1.08
	9			7.9	7.9 7.90 <sup>0.0</sup>	0.93
	10	3.2	3.2 3.25 <sup>10</sup>	5.77	8.1 8.1 8.10 <sup>0.0</sup>	0.92
	11	3.8	3.85 3.82 <sup>0.03</sup>	5.73	8.9 9.1 8.9 8.95 <sup>0.1</sup>	0.60
	12	4.0	4.05 <sup>0.1</sup> 4.1 4.10 4.08 <sup>0.02</sup>	5.78	9.5 9.3 9.40 <sup>0.12</sup>	0.46
	13		4.7 4.7 4.70 <sup>0.0</sup>	5.60	F 9.8	0.50
	14		5.1 5.1 5.10 <sup>0.0</sup>	5.55		
	15		5.7 5.7 5.75 <sup>0.0</sup>	5.33		
	16		6.05 <sup>0.1</sup> 6.0 6.1 6.08 <sup>0.02</sup>	5.32		
	17		6.3 6.3 6.30 <sup>0.0</sup>	5.33		
	18		6.8 6.9 6.85 <sup>0.1</sup>	5.21		
	19		7.2 7.3 7.25 <sup>0.1</sup>	5.17		
	20		7.5 7.60 7.55 <sup>0.05</sup>	5.18		
	23		8.2 8.2 8.20 <sup>0.0</sup>	5.14		
	25		9.0 8.9 8.95 <sup>0.1</sup>	4.92		
	26		9.60 <sup>0.1</sup> 9.5 9.7 9.65 <sup>0.05</sup>	4.68		
	27		F			
	28					



Series 666

Copied 1310:106

De V

September 12, 1916

Cand.

me 10881		Cand. 17		+ 10, 0		alt. cand. + 14	
		Eu	Magn	pc		Eu	magn
1	<sup>1.4</sup> 1.3	.	.	<sup>5.40<sup>±1</sup></sup> 5.3 5.5		1.50	6.90
2	<sup>1.2</sup> 1.1	.	.	5.2		1.54	6.74
3	<sup>1.8</sup> 1.7	.	.	5.8		1.42	7.22
4	<sup>2.0</sup> 1.9	.	.	6.1		1.33	7.43
5	<sup>2.4</sup> <sup>2.50<sup>±1</sup></sup> 2.3 2.6	.	.	7.1		1.11	8.21
6	<sup>2.4</sup> 2.3	.	.	7.1		1.11	8.21
7	<sup>3.4</sup> 3.3	5.78	9.18	<sup>8.40<sup>±1</sup></sup> 8.3 8.5		0.78	9.18
8	<sup>3.8</sup> 3.7	<sup>3.85<sup>01</sup></sup> 3.9	5.74	9.59	<sup>9.15<sup>±1</sup></sup> 9.0 9.3	0.60	9.75
9	<sup>4.2</sup> 4.1	<sup>4.25<sup>01</sup></sup> 4.3	5.67	9.92	7		
10		5.2	5.51	10.71			
11		<sup>6.60<sup>±1</sup></sup> 6.5	6.75.83	11.93			
12		7.1	5.26	12.36			
13		8.0	5.14	13.14			
14		<sup>8.40<sup>±1</sup></sup> 8.3	8.5 5.05	13.45			
15		9.0	4.89	13.89			
16		<sup>9.40<sup>±1</sup></sup> 9.3	9.5 4.78	14.18			

Darius 666

Sev

September 12, 1916

alt. corr. +.23

mc 10882		SX Herculis		17 24 + 42.5 (Ref. Sep)	
1	<sup>3.0</sup> 29			<sup>7.60 ± 1</sup> 7.57.7	1.00 8.60
2	<sup>3.5</sup> 34	5.77	9.27	<sup>4.40 ± 1</sup> 8.3 8.5	0.78 9.18
3	<sup>3.9</sup> 38	5.73	9.63	9.1	0.62 9.72
4	<sup>4.1</sup> 40 4.10°	4.1 5.70	9.80	9.5	0.51 10.01
5		4.3 5.66	9.96	9.8	0.44 10.24
6		<sup>5.00 ± 1</sup> 5.1 49.55	10.55		
7		<sup>5.80 ± 1</sup> 5.9 57.5.42	11.22		
8		<sup>5.80 ± 1</sup> 5.7 59.5.42	11.22		
9		6.0 5.39	11.39		
10		6.2 5.34	11.54		
11		<sup>6.60 ± 1</sup> 6.5 67.5.32	11.92		
12		6.9 5.28	12.18		
13		7.2 5.25	12.45		
14		7.1 5.27	12.37		
15		<sup>7.25 ± 1</sup> 7.2 7.3 5.26	12.49		
16		7.7 5.17	12.87		
17		8.3 5.07	13.37		
18		8.8 4.95	13.75		
19		9.0 4.88	13.88		
20		9.8? 4.67	<u>14.47</u>		



Series 666

Copied 13 9a: 173

Cand.

Sev

September 12, 1916

alt. corr. +.23

me 10882		Sep 12 1916		Sep 12 1916		Sep 12 1916	
		cu	magn	pc	cu	magn	
a	<sup>2.1</sup> 2.0			6.6	1.22	7.82	
b	<sup>2.6</sup> 2.5			7.2	1.09	9.29	
c	<sup>3.0</sup> 2.9			7.8	0.95	8.75	
d	<sup>3.4</sup> 3.3	5.78	9.18	8.1	0.87	8.97	
e		3.8	5.75	9.55	<sup>8.85</sup> 8.8	0.68	9.53
f	<sup>4.60</sup> 4.5	5.62	10.22	9.39	<sup>9.50</sup> 9.7	0.51	10.01
g		4.7	5.60	10.30			
h		5.2	5.50	10.70			
k		5.4	5.47	10.87			
l		6.0	5.39	11.39			
m		6.3	5.36	11.66			
n		6.9	5.28	12.18			
o	<sup>7.40</sup> 7.5	7.35	12.3	12.63			
p		7.5	5.20	12.70			
q		8.3	5.09	13.37			
r		8.9	4.92	13.82			
s		9.1	4.87	13.97			
t	<sup>7.60</sup> 9.5	9.7	4.73	14.33			
u		9.7	4.70	14.40			
w		9.9	4.65	14.55			

Series 666 Copied 139:180

Card

Sc4

September 12, 1916

MC 10883 negc 6494 17.47 - 19.8  
 c in magn pc in magn

Q.A. covc - .29

1	1.59 1.8			6.1	1.34	7.44
2	3.1 3.0			7.8	0.95	8.75
3	3.7 3.6	3.75 <sup>-10</sup>	3.8	5.76	9.51	8.80 <sup>12</sup> 8.7
4			4.3	5.66	9.96	9.26 <sup>12</sup> 9.3
5			5.0	5.54	10.54	9.9 ? 0.44
6			5.4	5.47	10.87	10.34
7			6.1	5.38	11.48	
8			6.4	5.34	11.74	
9			6.9	6.75, 29	12.09	
10			7.0	5.27	12.27	
11			7.3	5.24	12.54	
12			7.5	7.7 5.20	12.80	
13			7.7	5.18	12.88	
14			8.1	5.12	13.22	
15			8.9	4.91	13.81	
16			9.5	4.77	14.27	



Darius 666

Dev

September 12, 1916

mc 10884 UY Herculis (DM Ref)

alt. rev. + 18

	pc	cu	magn	pc	cu	magn
1	<sup>1.5</sup> 1.4	.	.	6.0	1.36	7.36
2	<sup>2.1</sup> 2.0	.	.	<sup>6.80±1</sup> 6.7 6.9	1.17	7.97
3	<sup>2.5</sup> 2.4	.	.	7.9 ?	0.93	8.83
4	<sup>2.7</sup> 2.6	.	.	7.5	1.02	8.52
5	<sup>3.5</sup> 3.4	5.77	9.27	8.0	0.90	8.90
6	<sup>4.0</sup> 3.9 4.00	4.0 5.72	9.72	<sup>8.60±1</sup> 8.5 8.7	0.74	9.34
7	<sup>4.70±1</sup> 4.6	4.8 5.60	10.30	9.8	0.95	<u>10.75</u>
8	5.3	5.49	10.79			
9	6.3	5.36	11.66			
10	7.2	5.25	12.45			
11	7.7	5.18	12.88			
12	<sup>8.20±1</sup> 8.3	8.1 5.10	13.30			
13	8.9	4.91	13.81			
14	9.5	4.77	14.37			
15	9.8	4.67	<u>14.47</u>			
16	7					

Series 666

Copied B9a: 174

ScV

September 12, 1916

MC 10884

U. X. Here - Seq

Det. corr. +.18

	cu	magn	pc	cu	magn
a	1.3 <sup>1.4</sup>		5.8	1.41	7.31
b	2.4 <sup>2.8</sup>		7.2	1.08	8.28
c	4.1 <sup>4.2</sup>	5.67	9.87	8.0 WS? 3m sup.	8.90 <sup>2. w.s.? sup.</sup>
d	3.2 <sup>3.3</sup>	5.80	9.10	7.9	8.83
e	3.2 <sup>3.3</sup>	5.80	9.10	8.1	8.97
f		5.1	5.53	10.63	
g		5.3	5.48	10.78	
h		6.0	5.40	11.40	
i		6.3	5.35	11.65	
j		6.9	5.28	12.18	
k		7.3	5.24	12.54	
l		7.7	5.17	12.87	
m		8.1	5.11	13.22	
n		8.5 <sup>8.6</sup>	8.7 <sup>8.8</sup>	13.60	
o		8.9	4.91	13.81	
p		9.3	4.82	14.12	
q		9.8	4.67	14.47	
r		9.9	4.64	14.54	



Series 666

Copied 1310! 143

SeV

September 12, 1916

Card

mc 10885 Carb 18 00-10

20% corr - 0.8

		Cu	magn	pc 6.40 ± 1	Cu	magn
1	<sup>2.1</sup> 2.0	.	.	6.3 6.5	1.26	7.66
2	<sup>2.4</sup> 2.3	.	.	<sup>7.25</sup> 7.3 7.1	1.08	8.28
3	<sup>2.8</sup> 2.7	.	.	7.7	0.97	8.67
4	<sup>3.1</sup> 3.0	<del>3.45</del> <del>3.2</del>	.	7.9	0.93	8.83
5		4.2	5.68	9.88 9.8	0.44	10.24
6		<sup>4.80</sup> 4.9 4.75	5.58	10.38 7		
7		4.3	5.67	9.97 9.7	0.47	<u>10.17</u>
8		5.5	5.46	10.96		
9		5.9	5.40	11.30		
10		6.7	5.30	12.00		
11		6.8	5.29	12.09		
12		7.0	5.27	12.27		
13		7.3	5.24	12.54		
14		7.3	5.24	12.54		
15		7.9	5.15	13.05		
16		7.9	5.15	13.05		
17		<sup>7.95</sup> 7.9 8.0	5.14	13.09		
18		8.0	5.13	13.13		
19		8.9	4.91	13.81		
20		9.5	5.17	14.27		

Series 666

Det

September 12, 1916

Mc 10886 Pole

5	B	C	PC
			4.9
8			7.1
9			7.9
10	<sup>3.2</sup> 3.1		8.1
11	<sup>3.8</sup> 3.7	<sup>0.1</sup> 3.85 3.9	8.9
12	<sup>4.0</sup> 3.9	<sup>1.1</sup> 4.10 4.2	9.3
13		4.7	9.8
14		5.1	
15		5.8	
16		6.1	
17		6.3	
18		6.9	
19		7.3	
20		<sup>7.60<sup>±1</sup></sup> 7.5 7.7	
23		8.2	
25		8.9	
26		9.7	
27		7	

3 30

See page 86



Series 26

8.7m

October 18, 1916

12	0.5	B44864	b8	15 + 15	pc		
		3.1	3.2				
1		2.9		4.10	8.3	-1.10	28 9.5 4.36
2		t.f.		.	8.7	-1.46	29 9.8 9.7 4.23
3		3.4		4.69	9.5	-1.41	30 7
		3.2					
4		3.00 <sup>11</sup>		4.72	8.7	-0.98	
		3.1 2.9					
5		3.3		4.62	9.2	-1.26	
		3.1					
6		3.4		4.71	9.5	-1.39	
6a		4.2	4.35 <sup>01</sup>	4.3 4.44	7		
7		t.f.		.			
8		4.9	4.90 <sup>00</sup>	4.9 4.07			
		4.7					
9		5.1	5.10 <sup>00</sup>	5.1 4.12			
		4.9					
10				5.2 4.32			
11				5.1 4.41			
12				5.3 4.45			
13				5.7 4.49			
14				6.1 3.87			
15				6.1 4.26			
16				6.3 4.22			
17				6.5 4.14			
18				6.3 4.38			
19				6.5 6.7 4.28			
20				6.5 4.07			
21				7.2 4.22			
22				7.7 4.12			
23				8.0 3.99			
24				8.1 3.99			
25				8.2 4.06			
25a				8.3 4.37			
26				8.7 4.03			
27				8.9 4.41			
27a				9.3 4.68			

96

Series 26

Copied B34:71

Bern

October 18, 1916

	B 44865	179 K	15 49-45	alt. corr + 0.2
✓ 1	<sup>5.1</sup> <sub>3.9</sub> 4.05 <sup>10</sup>	5.2 Cu	magn 4.94 8.99	
2		<sup>5.60<sup>11</sup></sup> <sub>5.5</sub> 5.7 4.59	10.19	
3		5.7 4.57	10.27	
4		6.1 4.50	10.60	
5		<sup>6.20<sup>11</sup></sup> <sub>6.1</sub> 6.3 4.49	10.69	
6		7.0 4.36	11.36	
7		7.8 4.27	12.07	
8		7.9 4.26	12.16	
9		8.0 4.25	12.25	
10		8.3 4.22	12.62	
11		8.7 4.20	12.90	
12		<sup>8.95<sup>02</sup></sup> <sub>9.0</sub> 8.9 4.18	13.13	
13		<sup>9.20<sup>12</sup></sup> <sub>9.3</sub> 9.1 4.17	13.37	
14		<sup>9.60<sup>11</sup></sup> <sub>9.5</sub> 9.7 4.13	13.73	
15		<sup>9.80<sup>00</sup></sup> <sub>9.8</sub> 9.8 4.13	<u>13.93</u>	



Series 26

Copied 1334:96

Scm

October 18, 1916

	B 44866	204K	16 - 76	alt. corr -29		
	Sc 1	Sc 2			pc	pc
	B	En	Magn		En	Magn
1	3.5				9.0	-1.08
2	3.3 ?	5.08	8.98		9.1	-1.09
3		4.3 4.88	9.18			
4		<sup>5.60<sup>L1</sup></sup> 5.5 5.7 4.60	10.20			
5		6.5 4.44	10.94			
6		7.1 4.35	11.45			
7		7.3 4.33	11.63			
8		<sup>7.60<sup>L1</sup></sup> 7.5 7.7 4.28	11.88			
9		8.1 4.24	12.34			
10		8.3 4.22	12.52			
11		8.5 4.21	12.71			
12		8.7 4.20	12.90			
13		9.0 4.18	13.18			
14		<sup>9.40<sup>L1</sup></sup> 9.5 9.3 4.15	13.55			
15		<sup>9.75<sup>L0</sup></sup> 9.7 9.8 4.13	13.88			

98

Series 26

Copied B45:82

Scm

October 18, 1916

B 44867 P Ophiuchi 16 9-22 alt. corr +.07							
	Sc 1'	Sc 2	Sc 2	Sc 2	Sc 2	Sc 2	Sc 2
1	3.9	4.05	4.0	4.95	9.66	9.8	-1.13 8.67
2			4.2	4.91	9.11		
3			4.9	4.75	9.65		
4			5.8	4.57	10.37		
5			6.0	4.54	10.54		
6			6.3	4.48	10.78		
7			6.5	4.44	10.94		
8			6.7	4.41	11.11		
9			7.1	4.34	11.46		
10			7.3	4.33	11.63		
11			7.5	4.30	11.80		
12			7.9	4.24	12.16		
13			8.1	4.25	12.35		
14		WS	8.5 8.7	4.22	12.72		
15			8.5	4.22	12.72		
16			8.7	4.20	12.90		

1 15

Images elongated.



Series 26

Copied B 34:116

Sem

October 18, 1916

2	uo	B 44868	38 Ks	17	US-27.6	Alt. corr + .08
1		<sup>3.5</sup> 3.3	<sup>5.2</sup> 5.08	<sup>8.5</sup> 8.58	8.8 -1.07	7.73
2			4.6 4.82	9.42		
3			5.3 4.67	9.97		
4			5.8 4.56	10.36		
5			6.0 4.53	10.53		
6			6.8 4.40	11.20		
7			7.3 4.33	11.63		
8			7.5 4.30	11.80		
9			7.8 4.27	12.07		
10			8.0 4.24	12.24		
11			8.3 4.23	12.53		
12			8.5 4.22	12.72		
13			8.7 4.20	12.90		
14			8.7 4.20	12.90		
15			<sup>9.6021</sup> 9.5 9.7 4.14	13.74		

100

Series 26

Sc m

October 18, 1916

B 44869 Sc 2. 17 + 10 <sup>-</sup>			PC
1	B		8.1 -0.92
2	B		8.20 <sup>11</sup> 8.3 8.1 -0.97
3	B		8.1 -1.86
3a	B		8.5 -1.15
4	tf		8.8 -0.98
5	tf		8.9 -0.84
6	<sup>3.3</sup> 8.1	5.17	9.2 -0.73
6a	<sup>3.8</sup> 3.6	4.84	9.75 <sup>01</sup> 9.8 9.7 -1.11
7	<sup>3.9</sup> 3.7	3.90 <sup>00</sup> 3.9 5.14	
8		4.3 5.23	
8a		4.3 5.38	
9		5.3 4.79	
10		6.0 4.66	
11		5.9 4.60	
12		5.9 4.67	
13		6.1 4.62	
14		6.2 4.59	
15		6.7 4.43	
16		7.1 4.50	
17		7.3 4.53	
18		7.8 4.61	
19		8.1 4.38	
20		<sup>8.40<sup>11</sup></sup> 8.5 8.3 4.26	
21		8.5 4.56	
22		8.7 4.70	
23		9.1 4.64	
24		<sup>9.60<sup>11</sup></sup> 9.5 9.7 4.33	
25		9.8 4.33	
26		<sup>9.85<sup>01</sup></sup> 9.6 9.9 4.31	



Series 26

Copied B3473

S.M.

October 18, 1916

	B 44872	181 K	17 49-44.9	alt. corr + 0.3
	Sec 2	Sec 2	magn	pc
1	<sup>8.50</sup> <sub>8.2</sub>	5.12	8.52	
2		3.9 4.98	8.88	
3		6.7 4.41	11.11	
4		6.8 4.40	11.20	
5		6.7 4.41	11.11	
6		7.1 4.36	11.46	
7		7.4 4.30	11.70	
8		7.7 4.28	11.98	
9		8.0 4.24	12.24	
10		8.2 4.23	12.43	
11		8.5 4.22	12.72	
12		<sup>8.60</sup> <sub>8.5</sub> 8.7 4.20	12.80	
13		9.1 4.17	13.27	
14		<sup>9.40</sup> <sub>9.3</sub> 9.5 4.15	13.55	
15		<sup>9.70</sup> <sub>9.8</sub> 9.7 4.13	<u>13.88</u>	

Series 26

Ser M

October 18, 1916

B 44875 10 10 19 + 15

	Se1	Se2	pc
1	B		8.1 -1.26
2	B		8.7 -1.29
3	B		8.3 -0.96
4	B		8.60 <sup>11</sup> 8.7 8.5 -0.76
5	B		9.3 -0.87
6	2.9 <sup>3.1</sup>	5.40	9.5 <sup>9</sup> -1.00 near br. obj
7	2.9 <sup>3.1</sup>	5.19	9.75 <sup>10</sup> 9.7 9.8 -1.46
8	3.3 <sup>3.5</sup>	5.60	
9	4.0		
10	4.0 <sup>4.2</sup>	4.20 <sup>4.2</sup> 4.1 4.3 5.49	
11		4.9 5.14	
12		5.7 4.79	
13		6.1 4.63	
14		6.3 4.71	
15		6.5 <sup>6.60<sup>11</sup></sup> 6.7 4.57	
16		7.3 4.22	
17		8.0 3.90	
18		8.5 3.85	
19		9.0 3.74	
20		9.3 <sup>9.40<sup>11</sup></sup> 9.5 3.47	
21		9.7 <sup>9.75<sup>10</sup></sup> 9.7 3.73	
22		7	
23			
24			
25			
26			
27			
28			



B Series 114

Copied B27:13<sup>H</sup>

Scm

October 24, 1916

11	50	B46352	E	5	12	0	-	45	Get cov. + 0.1
				502	cu	magn	pc	cu	magn
	1	4.8 <sup>1</sup> 4.0	4.15 <sup>01</sup>	4.1	3.36	7.51	8.2	.	.
	2	4.0 <sup>1</sup> 3.8	3.95 <sup>01</sup>	3.9	3.35	7.30	8.2	.	.
	3	4.3 <sup>1</sup> 4.1	4.30 <sup>00</sup>	4.3	3.36	7.66	8.7	-1.40	7.30
Remeas. by O. Oct 26, 16.	4			4.3	3.36	7.66	8.7	-1.40	7.30
5 4.5	5			4.7	3.36	8.06	9.0	-1.38	7.60
6 4.4	6			4.7	3.36	8.06	9.1	-1.38	7.72
7 4.1	7			5.0	3.36	8.36	9.3	-1.36	7.94
8 5.2	8			5.3	3.36	8.66	Too near br. obj.		
	9			5.3	3.36	8.66	9.8	-1.32	8.48
	10			5.5	3.36	8.86	7		
	11			5.5 <sup>1</sup> 5.7	3.36	8.96			
	12			6.1	3.36	9.46			
	13			6.1	3.36	9.46			
Remeas. by O. Nov 9, 16.	14			6.3	3.36	9.66			
Nov 2 7.2	15			7.1 <sup>1</sup> 7.1	6.9 3.36	10.36			
7.5 7.4	16			7.5	3.38	10.88	Reject		
7.5	17			7.2	3.37	10.57			
7.7	18			7.7	3.38	11.08			
Orig. measure of	19			7.7	3.38	11.08			
17-7.2, accidental error.	20			7.9 <sup>01</sup> 8.0	7.9 3.39	11.34			
	21			8.0	3.39	11.39			
	22			8.7	3.44	12.14			
	23			8.9 <sup>1</sup> 8.9	8.7 3.45	12.25			
	24			8.7	3.44	12.14			
	25			9.2	3.52	12.72			
	26			9.8	3.63	13.43			
	27			9.8	3.63	13.43			
	28			7					

Star 16 is found by inspection  
of the plate to be actually  
brighter than Star 17. Magnitude  
rejected for discrepancy.

W.S.L. Jan. 8, 1917.

Diff. images very much elong-  
not comp. with scale

Serm

B Series 114

Copied 27-186

October 24, 1916

B 46353 J<sub>2</sub> 12-75

alt. corr - .31

	$\delta$	$\alpha$	$\mu$	$\rho$	$\sigma$	$\mu$	$\rho$	$\sigma$
1	3.95 <sup>01</sup>	3.36	7.30	8.3	-1.41	6.89	29	8.8 3.45 12.25
2	4.2	3.36	7.56	8.5	-1.40 <sup>8.60<sup>01</sup></sup>	7.20	30	8.9 3.47 12.37
3	4.3	3.36	7.66	8.9	-1.39 <sup>8.75<sup>01</sup></sup>	7.56	31	9.0 8.9 3.49 12.41
4	4.1	3.36	7.46	8.9	-1.40	7.50	32	9.1 3.50 12.60
5	5.1	3.36	9.46	9.5	-1.35	8.15	33	9.5 3.57 13.07
6	5.1	3.36	8.46	9.7	-1.32 <sup>8.60<sup>01</sup></sup>	8.38	34	9.5 9.7 3.58 13.18
7	5.0	3.36	9.36	9.2	-1.38	7.82	35	9.8 3.63 13.43
8	4.9	3.36	8.96	9.2	-1.38	7.82	36	7
9	5.2	3.36	8.56	9.8	-1.31	8.49		
10	5.3	3.36	8.66	F				
11	5.2	3.36	8.56					
12	5.6	3.36	8.96					
13	5.9	3.36	9.26					
14	6.1	3.36	9.46					
15	6.5	6.7 3.36 <sup>6.60<sup>01</sup></sup>	9.96					
16	7.1	6.9 3.36 <sup>7.00<sup>01</sup></sup>	10.36					
17	7.1	3.36	10.46					
18	7.1	3.36	10.46					
19	7.3	7.5 3.37 <sup>7.40<sup>01</sup></sup>	10.77					
20	7.7	3.35	11.08					
21	8.1	3.39	11.49					
22	8.2	8.1 3.40 <sup>8.15<sup>01</sup></sup>	11.55					
23	8.3	3.40	11.70					
24	8.2	3.40	11.60					
25	8.3	3.40	11.70					
26	8.3	3.40	11.70					
27	8.5	3.43	11.93					
28	8.7	3.44	12.14					

Diff images very much elong.



B Series 114 Copied 1334:20

ScM

October 24, 1916

alt. corr. + 07

	B 46354	128 K	12	14-15	
	$S_{21}$	$S_{22}$	$\mu$	magn	PC
1	4.2 4.0	4.15 4.1	3.36	9.51	9.1 9.60 ± 1
2		4.8	3.36	8.16	9.5 9.7 -1.33
3		5.2	3.36	8.56	7
4		5.9	3.36	9.26	
5		6.1	3.36	9.46	
6		7.1 7.00 ± 1	3.36	10.36	
7		6.9 7.00 ± 1	3.36	10.36	
8		7.2	3.37	10.57	
9		7.4	3.37	10.77	
10		7.7	3.38	11.08	
11		9.1 9.85 ± 1	3.50	12.60	
12		8.8	3.46	12.31	
13		9.0	3.48	12.48	
14		9.3	3.53	12.83	
15		9.5	3.57	13.07	
10a		8.1	3.09	11.49	
10b		8.7 8.60 ± 1	3.43	12.03	

Reject. Image defective. Examined with high power eye-piece.

Star 11 is certainly fainter than 12 on this plate -  
On plate Mc 2934 it is as bright as 10a. Var?

106

Scm

B Series 114

October 24, 1916

Sheet no 408

alt. corr. 0.0

B 46355 log 13 + 15			
Sc 1	Sc 2	Diff	pc
1 $t_p$			$t_p$
2 $t_p$			$t_p$
3 $4.9$ $4.7$	$4.90^{\circ}$ 4.9	3.31	$9.5$ $9.3$ -1.29
4	4.3	3.90	9.1 -0.90
5	5.1	3.46	7
6	5.2	3.74	
7	5.6	3.60	
8	6.1	3.50	
9	6.2	3.61	
10	6.3	3.79	
11	$6.60^{\pm 1}$ 6.5	6.751	
12	6.8	3.56	
13	7.1	3.56	
14	7.3	3.52	
15	7.5	3.49	
16	$7.60^{\pm 1}$ 7.5	7.7363	
17	8.0	3.56	
18	8.3	3.39	
19	8.5	3.51	
20	8.7	3.56	
21	9.3	3.51	
22	$9.60^{\pm 1}$ 9.5	9.7366	
23	7		
24			
25			
26			
27			
28			

Diff images very much elong



B Series 114

Copied 1327:56

Scm

October 24, 1916

alt. core +.06

B 46356		Dy - 13-15		alt. corr	
1	So <sup>1</sup> tp	So2	Cu	magn	PC Cu magn
					8.3 -1.41 6.89
2	tp				8.3 -1.41 6.89
3	tp				9.0 -1.38 7.62
4	<sup>4.5</sup> 4.3	4.60 ± 1	4.7	3.36	7.96 9.2 -1.37 7.83
5		4.6	3.36	7.96	9.2 -1.37 7.83
6		4.3	3.36	7.66	8.8 -1.40 7.46
7	tp				9.8? -1.31 8.49
8		4.7	3.36	8.06	9.7 -1.33 8.37
9		<sup>5.00 ± 1</sup> 4.9	5.1	3.36	8.36
10		5.3	3.36	8.66	
11		<sup>6.00 ± 1</sup> 5.1	3.36	8.46	
12		5.9	6.1	3.36	9.36
13		6.1	3.36	9.46	
14		6.1	3.36	9.46	
15		6.3	3.36	9.66	
16		6.5	3.36	9.86	
17		6.5	3.36	9.86	
18		<sup>7.10 ± 0</sup> 7.1	7.1	3.36	10.46
19		7.2	3.37	10.57	
20		7.7	3.39	11.09	
Ref 21		<sup>7.00 ± 1</sup> 8.00	7.1	6.9	3.36 9 11.39 +0.56
22		8.1	3.39	11.49	
23		8.3	3.40	11.70	
24		8.5	3.42	11.92	
25		8.7	3.44	12.14	
26		9.0	3.49	12.49	
27		9.2	3.53	12.73	
28		<sup>9.60 ± 1</sup> 9.5	9.7	3.58	13.18
29		9.8	3.64	13.44	

Diff. images - cloud

Stat  
Plate. M  
Apparatus  
Reprint  
Assume

Star 21 - image normal on plate. Measured very bright. Apparently some multiplier noise. Repeat measure. Feb. 18, 1949. Assume Reading 8.00

Diff. images - double -

108

Copied B 34:45

B Series 114

October 24, 1916

Scm

alt. corr +.05

2 50 B 46257 153 K 13 23-30

		cu	magn	pc	cu	magn
1	5.0	3.36	8.36	9.7	-1.33	8.37
2	6.0	3.36	9.36			
3	6.3	3.36	9.66			
4	6.7	3.36	10.06			
5	7.2	3.39	10.37			
6	7.3	3.38	10.68			
7	7.5	3.38	10.88			
8	7.7	3.38	11.08			
9	7.7	7.5 3.38	10.98			
10	8.0	3.39	11.39			
11	8.3	3.40	11.70			
12	8.7	8.9 3.45	12.25			
13	9.0	3.48	12.48			
14	9.3	3.54	12.84			
15	9.7	3.60	13.20			

Diff images very much along



B Series 114

Copied 1334:69

ScM

October 24, 1916

alt. corr +.01

B 46358 177 K 13 49 - 45					
1	Sc 1	5.2	3.36	magn 8.56	pc 9.8 -1.31
2		6.5 <sup>6.60 ± .1</sup>	3.36	9.96	
3		7.1	3.36	10.46	
4		7.1 <sup>7.20 ± .1</sup>	3.37	10.57	
5		7.5	3.38	10.88	
6		7.5 <sup>7.60 ± .1</sup>	3.38	10.98	
7		8.1	3.39	11.49	
8		8.1	3.39	11.49	
9		7.9	3.39	11.29	
10		8.2	3.40	11.60	
11		8.5	3.43	11.93	
12		8.5 <sup>8.60 ± .1</sup>	3.44	12.04	
13		8.9 <sup>8.70 ± .1</sup>	3.48	12.43	
14		9.5	3.56	13.06	
15		9.5 <sup>9.60 ± .1</sup>	3.58	13.18	

110

B Series 114

Copied B34:22

ScM

October 24, 1916

alt corr +.07

	B 46359	130 K	14	8-15
	Sc1	Sc2	Sc	mag PC
1		50	3.36	8.36
2		53	3.36	8.66
3		6.1	3.36	9.46
4		6.5	6.3 3.36	9.76
5		6.2	6.5 3.36	9.71
6		6.8	6.9 3.36	10.21
7		8.1	8.0 3.39	11.44
8		8.0	7.9 3.39	11.34
9		7.3	7.5 3.37	10.77
10		8.3	3.40	11.70
11		8.9	3.46	12.36
12		9.1	3.50	12.60
13		9.0	3.49	12.49
14		9.5	7.7 3.58	13.18
15		7		



B Series 114

Copied Dec 27: 1942

Sc III

October 24, 1916

B 46360 E 6 14 40-45									
	Sec 1	Sec 2	cu	magn	pc	cu	magn	cu	magn
1	3.2				7.8			29 8.2	3.40 11.60
2	4.1				7.9			30 8.5	3.42 11.92
3	3.2				7.9			31 8.7	3.44 12.14
4	3.3	3.55 <sup>10</sup>	3.6		8.3	8.5 -1.41	6.99	32 8.7	3.44 12.14
5			4.1	3.36	7.46	8.7 -1.40	7.30	33 9.0	3.48 12.48
6			4.3	3.36	7.66	8.9 -1.39	7.51	34 9.1	3.50 12.60
7			4.7	4.3 3.36	7.86	9.0 -1.38	7.62	35 9.3	3.54 12.84
8			5.1	3.36	8.46			36 9.8	3.63 13.43
9			5.2	3.36	8.56				
10			5.1	3.36	8.46				
11			5.7	3.36	9.06				
12			5.7	3.36	9.06				
13			5.8	3.36	9.16				
14			5.9	3.36	9.26				
15			6.1	3.36	9.46				
16			6.1	3.36	9.46				
17			6.2	3.36	9.56				
18			6.3	3.36	9.66				
19			6.3	3.36	9.66				
20			6.5	6.7 3.36	9.96				
21			7.2	3.36	10.56				
22			7.1	3.36	10.46				
23			7.2	3.37	10.57				
24			7.3	3.37	10.67				
25			7.2	3.37	10.57				
26			7.7	7.5 3.38	10.98				
27			7.9	8.0 3.39	11.34				
28			8.3	8.5 3.42	11.82				

112

B Series 114

Sheet no 40

Sc M

October 24, 1916

B 46361 128 15+14		
1	Sc 1 9.10 <sup>00</sup>	Diff 3.10
2	tp	pc 8.7 -1.50
3	5.1 2.99	8.60 <sup>±1</sup>
4	4.3 3.42	8.5 87-1.36
5	4.8 3.12	9.15 <sup>±0</sup>
6	5.2 2.91	9.1 9.2 -1.43
6a	5.3 3.49	9.5 -1.58
7	5.4 3.41	9.8 -1.69
8	6.0 2.97	
9	6.1 3.12	
10	6.20 <sup>±1</sup> 6.3 3.32	
11	6.3 3.21	
12	6.60 <sup>±1</sup> 6.5 6.7 3.15	
13	6.9 3.99	
14	6.95 <sup>±0</sup> 6.9 7.0 3.62	
15	7.2 3.16	
16	7.5 3.02	
17	7.7 2.94	
18	7.60 <sup>±1</sup> 7.5 7.7 3.08	
19	7.5 3.18	
20	7.8 2.77	
21	8.1 3.32	
22	8.40 <sup>±1</sup> 8.3 8.5 3.42	
23	8.8 3.19	
24	8.7 3.39	
25	9.0 3.26	
25a	9.2 3.47	
26	9.3 3.43	
27	9.5 3.81	
27a		

H 15

Hawking dark



B Series 30

Sheet no 4<sup>3</sup>

Dev

Nov. 6, 1916

12 50	B44968	b8	15 + 15	pc	
1	B	c	Diff	8.5 - 1.30	26 8.7 4.03
2	t <sub>fu</sub>			8.7 - 1.46	27 8.9 9.1 4.31
3	3.1		4.89	9.3 - 1.21	27a
4	t <sub>fu</sub>			9.1 9.3 1.48	28 7
5	3.1		4.72	9.5 - 1.58	
6	3.3		4.71	9.8 - 1.69	
6a	3.9	4.00 <sup>20</sup>	4.0 4.79		
7	t <sub>fu</sub>				
8			4.7 4.27		
9			4.9 4.32		
10			5.0 4.52		
11			5.1 4.9 4.51		
12			5.3 4.45		
13			5.3 4.59		
14			6.0 3.97		
15			6.1 4.26		
16			6.3 4.22		
17			6.7 6.5 4.04		
18			6.5 4.18		
19			6.5 4.18		
20			6.5 4.07		
20a			6.8 4.42		
21			7.1 4.33		
22			7.5 4.32		
23			7.7 4.29		
24			7.8 4.29		
25			8.1 4.16		
25a			8.3 4.37		

Images not circular

114

B Series 30

Copied B34:117

Scv

Nov 6, 1916

	B 44969	39 Ks	17 - 268	
1	<sup>8.0</sup> 3.9 4.05 <sup>01</sup>	4.1 4.80	<sup>mag</sup> 8.45	
2		5.1 4.58	9.68	
3		7.5 4.19	11.69	
4		7.7 4.16	11.86	
5		8.0 4.13	12.13	
6		8.1 4.11	12.21	
7		8.1 4.11	12.21	
8		<sup>8.80.1</sup> 8.9 8.7 4.00	12.82	
9		8.8 4.00	12.82	
10		<sup>9.60.1</sup> 9.5 9.7 3.94	13.54	
11		9.7 3.92	13.62	
2a		7.2 4.23	11.43	

alt. corr. 4.19

Images slightly along



B Series 30.

Copied B34:120

Dec

Nov 6, 1916

B 44970		42/25		act. corr + .14		
		c	e	magn	e	magn
1	<sup>3.1</sup> 30		5.03	8.13	9.3 -1.28	8.02
2	<sup>3.4</sup> 33		4.96	8.36	9.5 -1.34	8.16
3	<sup>5.1</sup> 50 5.10 <sup>00</sup>	5.1	4.58	9.68		
4		5.3	4.55	9.85		
5		6.1	4.40	10.50		
6		7.1	4.23	11.33		
7		<sup>7.60<sup>11</sup></sup> 7.5	7.7 4.18	11.78		
8		<sup>8.20<sup>11</sup></sup> 8.1	8.3 4.10	12.30		
9		8.7	4.03	12.93		
10		8.8	4.06	12.56		
11		<sup>8.90<sup>11</sup></sup> 9.1	8.7 4.00	12.90		
12		9.3	3.96	13.26		
13		<sup>9.60<sup>11</sup></sup> 9.7	9.5 3.93	13.53		
14		See				
15		9.7	3.92	13.62		

116

B Series 30

Dec

Nov 6, 1916

B 44973 c b9 17 + 15		
1 B		pc
2 B		8.2 -1.02
3 B		8.2 -0.97
3a B		8.3 -1.26
4 B		8.7 -1.38
5 +h		9.0 -1.18
6 +h		Scv.
6a +h		9.8 -1.33
7 +h		9.9 -1.26
8 +h		7
8a +h		
9 +h		
10	6.0 <sup>11</sup> 6.1 5.9 4.66	
11	6.1 4.40	
12	6.1 4.47	
13	6.1 4.62	
14	6.4 4.39 6.35 <sup>10</sup>	
15	6.9 7.0 4.18	
16	7.5 4.10	
17	7.8 4.03	
18	8.60 <sup>11</sup> 8.5 8.7 3.81	
19	8.5 3.98	
20	9.0 3.76	
21	9.5 3.66	
22	9.60 <sup>11</sup> 9.5 9.7 3.80	
23	7	
24		
25		
26		
27		

Very poor plate. bright images hazy - all images  
condensed.



B Series 30

Copied 133474

ScV

Nov 6, 1916

2 10

B44975

182 K 18 - 45

2.15  $\log t + .07$ 

1 B

Eu magn PC

2 B

3 t p

4 t p

5 t p

6 t p

7 t p

8 t p

9 7.8 4.15 11.95

10 8.1 4.11 12.21

11 8.5 4.07 12.57

12 8.7 4.03 12.73

13 <sup>9.20<sup>21</sup></sup> 9.1 9.3 3.98 13.18

14 9.7 3.92 13.62

15 9.9 3.90 13.80

First 8 images not comparable with scale - edges hazy  
with dark center -

B Series 30

Copied B9: 213

SeV

Nov 6, 1916

B 44977		R 8 Sag - 19 12 - 19		magn		alt. corr + 15
a	B	c	cu	dc	cu	
	B			6.3	.	
b	tp			8.7	-1.10	7.60
c	B			7.2	-0.58	6.62
d	B			7.7	-0.77	6.93
e	tp			F		
f	3.4 3.3	4.96	8.36			
g	3.5 3.4	4.93	8.43			
h	3.0 2.9	5.06	8.06	9.8	-1.42	8.38
k	4.2 4.1	4.20 <sup>00</sup> 4.2	4.77	8.97		
l	4.2 4.1	4.15 <sup>01</sup> 4.1	4.78	8.93		
m		5.3	4.55	9.85		
n		5.2	4.58	9.78		
o		5.0	4.62	9.62		
p		6.1	4.40	10.50		
q		6.5	6.74.30	10.90		
r		6.3	4.36	10.66		
s		7.5	4.19	11.69		
t		7.3	4.22	11.52		
u		8.3	4.08	12.38		
v		9.50 9.7	9.33.94	13.44		
x		8.60 <sup>01</sup> 8.5	8.7 4.04	12.64		
y		9.7	3.92	13.62		

Images slightly elongated -



B Series 30

Copied 1334:51

SeV

Nov 6, 1916

B 44978		159 K	19	299	alt coin +.13		
	B	c	cu	magn	pc	cu	magn
1	3.3				9.2	-1.25	7.95
2	3.2		4.98	8.28	9.5	9.7	8.34
	4.0				9.60 ± 1		
3	3.9	4.00 <sup>00</sup>	4.0	4.82			
4	4.1	4.15 <sup>10</sup>	4.2	4.78			
	4.0						
5		5.2	4.57	9.77			
6		5.2	4.57	9.77			
7		5.7	4.46	10.16			
8		5.7	4.46	10.16			
9		6.1	4.40	10.50			
10		6.3	4.36	10.66			
11		7.0	4.26	11.25			
		7.10 ± 1					
12		7.5	7.7	4.18			
13		7.9	4.14	12.04			
		8.40 ± 1					
14		8.3	8.5	4.06			
		9.60 ± 1					
15		9.5	9.7	3.93			
				13.53			

120

B Series 30

Sel

Nov 6, 1916

B 44979 c b w 19 + 15			pc
1 B			7.3 -0.46
2 B			8.1 <sup>-0.69</sup> <del>-0.86</del>
3 B			8.0 -0.66
4 B			8.5 -0.66
5 <sup>3.25-12</sup> 3.1 3.4 3.0 3.3	5.18		9.5 -1.13
6 <sup>3.5</sup> 3.4	5.00		9.7 ? <sup>-1.20</sup> Near br. im
7 <sup>3.4</sup> 3.3	4.89		9.3 -1.01
8 <sup>3.9</sup> 3.8 <sup>3.95-10</sup>	4.0 5.15		
9 t.p.			
10	<sup>4.95-10</sup> 4.9 5.0 4.74		
11	5.2 4.84		
12	6.0 4.49		
13	6.1 4.63		
14	6.3 4.71		
15	<sup>6.60-11</sup> 6.7 6.5 4.57		
16	<sup>7.05-10</sup> 7.1 7.0 4.47		
17	7.5 4.40		
18	<sup>8.60-11</sup> 8.0 4.35		
19	8.5 8.7 4.14		
20	8.9 3.97		
21	9.3 4.18		
22	9.9 ? 3.94		

3 15  
00



DeV

MC Series 664. Sheet no 354January 30, 1917

11	10	MC 10853	10853 P125	P.C.		
5	B			5.4	<sup>5.45<sup>01</sup></sup> (close to bi mo) 5.5	1.04
6				6.3	<sup>6.35<sup>10</sup></sup> 6.4	0.76
8				7.7	<sup>7.70<sup>00</sup></sup> 7.7	0.53
9				<sup>8.60<sup>11</sup></sup> 8.5 8.7	<sup>8.65<sup>05 05</sup></sup> 8.7	0.18
10		<sup>3.90<sup>11</sup></sup> 4.0	<sup>3.84<sup>00</sup></sup> 3.84	<sup>3.95<sup>05</sup></sup> 5.07	<sup>8.95<sup>10</sup></sup> 8.9	9.0 0.07
11		4.4	<sup>4.60</sup> 4.6	<sup>4.65<sup>11</sup></sup> 5.06	<sup>9.7<sup>00</sup></sup> 9.7	- 0.15
12		4.9	<sup>5.0</sup> 4.9	<sup>4.95<sup>10</sup></sup> 4.91	F	
13		5.5	<sup>5.7</sup> 5.6	<sup>5.65<sup>11</sup></sup> 4.70		
14		6.1	<sup>6.1</sup> 6.1	<sup>6.10<sup>00</sup></sup> 4.55		
15		6.5	<sup>6.4</sup> 6.4	<sup>6.45<sup>10</sup></sup> 4.63		
16		6.7	<sup>6.7</sup> 6.7	<sup>6.70<sup>00</sup></sup> 4.70		
17		7.0	<sup>7.1</sup> 7.0	<sup>7.05<sup>01</sup></sup> 4.58		
18		<sup>7.60<sup>11</sup></sup> 7.7	<sup>7.5</sup> 7.7	<sup>7.65<sup>11</sup></sup> 4.41		
19		7.8	<sup>7.9</sup> 7.8	<sup>7.85<sup>01</sup></sup> 4.57		
20		8.2	<sup>8.3</sup> 8.2	<sup>8.25<sup>01</sup></sup> 4.48		
23		9.0	<sup>9.5</sup> 9.2	<sup>9.25<sup>33</sup></sup> 4.09		
25		9.8	<sup>9.8</sup> 9.8	<sup>9.80<sup>00</sup></sup> 4.07		
26		F				

122

MC Series 664

Copied 1310:1660

Cand.

Scv

January 30, 1917

Ret. corr. - .44

MC 10854 Barte. 16 0 - 23.5						
	B	C	Cu	Magn	PC	magn
1					7.3 0.51	7.81
2					8.80 0.11	8.91
3	1	4.7	4.97	9.67	9.7 -0.14	<u>9.56</u>
4		5.4	4.84	10.24		
5		6.3	4.67	10.97		
6		6.8	4.56	11.36		
7		7.2	4.48	11.68		
8		7.3	4.47	11.77		
9		<sup>7.60</sup> 7.5	7.7 4.42	12.02		
10		8.1	4.33	12.43		
11		8.3	4.30	12.60		
12		8.7	4.24	12.94		
13		9.0	4.17	13.17		
14		9.7	4.04	<u>13.74</u>		
15		9.8	.	.		
16		F				



Mc Series 664.

Copied B9a:216

Card

SeV

January 30, 1917

Mc 10955 S W Ophiuchi 16 10-75

alt. corr. -04

	B	c	c	magn	pc
a		5.2	4.87	10.07	
b		5.0	4.91	9.91	
c		6.1	4.70	10.80	
d		5.7	4.77	10.47	
e		7.2	4.49	11.69	
f		7.3	4.47	11.77	
g		7.5	4.44	11.94	
h		7.9	4.37	12.27	
k		8.1	4.33	12.43	
l		8.7	4.24	12.94	
m		9.0	4.17	13.17	
n		9.5	4.06	13.66	
o		9.7	4.04	13.74	
p		9.8			
q		7			
r		6.5	4.63	11.13	
SW		4.8	4.95	9.75	

Sel

MC Series 664

Copied 9a: 206  
Cand.

January 30, 1917

200.000 + 18

MC 10856 J.J. Her. 16 + 17.5

	c	e	magn	P.C.	e	magn
a	4.2	5.09	9.29	9.5 9.7	-0.10	9.50
b	4.9	4.93	9.83			
c	5.4	4.83	10.23			
d	5.6	4.80	10.40			
e	6.5	4.65	11.05			
f	6.5	4.63	11.13			
g	7.1	4.50	11.60			
h	7.5	4.45	11.85			
k	7.5	4.43	11.93			
l	7.2	4.48	11.73			
m	7.5	4.42	12.02			
n	7.7	4.40	12.10			
o	8.1	4.33	12.43			
p	8.5	4.26	12.76			
q	9.0	4.17	13.17			
r	9.3	4.13	13.43			
s	9.5	4.08	13.58			
t	9.8	.				
JJ	4.3	5.07	9.37	9.7 - 0.14		9.56



Mc Series 664

Sel

January 30, 1917

Mc 10858 Dale

	B	c	pc
5			5.5
6			6.4
8			7.7
9			8.7
10			9.0
11		4.0	
		4.60 <sup>27</sup>	
		4.547	
12		5.0	
13		5.7	
14		6.1	
15		6.4	
16		6.7	
17		7.1	
18		7.7	
19		7.9	
20		8.3	
23		9.5	
25		9.8 <sup>7</sup> H	
26		7	

See page 121

12 10

126

MC Series 664

Dev

January 31, 1917

10	20	MC 10858	Bole 10864				
		5	c	p132	PC		
					5.4	5.2	5.35 <sup>0.1</sup> 1.14
		6			6.3	6.1	6.20 <sup>11</sup> 0.90
		8			7.7	7.60	7.65 <sup>10</sup> 0.58
		9			8.7	8.5	8.60 <sup>12</sup> 0.23
		10					
			4.0	4.0 <sup>2.1</sup>	5.02	8.9	8.9 8.90 <sup>00</sup> 0.12
		11	4.5	3.95 4.22 <sup>2.28</sup>	5.33	9.9?	9.8 9.85 <sup>10</sup> - 0.30
		12	5.1	4.4 4.75 <sup>4.3</sup>	5.11		
		13	5.5	5.1 5.30 <sup>2.2</sup>	5.00		
		14	6.0	5.7 5.85 <sup>2.1</sup>	4.86		
		15	6.5	6.1 6.30 <sup>2.2</sup>	4.78		
		16	6.9	6.5 6.70 <sup>2.2</sup>	4.70		
		17	7.2	6.9 7.05 <sup>2.1</sup>	4.58		
		18	7.7	7.5 7.60 <sup>1.1</sup>	4.46		
		19	7.9	7.7 7.80 <sup>1.1</sup>	4.62		
		20	8.3	8.0 8.15 <sup>1.2</sup>	4.58		
		23	9.3	8.9 9.10 <sup>2.2</sup>	4.24		
		25	7	9.60 9.60 <sup>2.2</sup>	4.27		
		26					



Mc Series 664

Copied B 8:132

Cand.

Det

January 31, 1917

Act. corr. - .18

MC 10859 Dg 17-16									
	B	C. Cu	Magn	pc					
1				$7.5^{+0.1}$	7.7	0.58	8.18	29	8.7 4.38 13.08
2				$7.5^{+0.1}$	7.7	0.58	8.18	30	9.0 4.34 13.34
3				7.5		0.62	8.12	31	$9.5^{+0.1}$ 9.7 4.27 13.87
4				7.5		0.62	8.12	32	9.9 4.24 14.14
5				7.6		0.58	8.18	33	7
6				7.7		0.56	8.26		
7		4.0	5.36	9.36	8.8	0.18	8.98		
8	t.p.			$8.6^{+0.1}$	8.4	0.30	8.80		
9		4.1	5.33	9.43	9.0	0.11	9.11		
10		5.0	5.03	10.03					
11		5.1	5.00	10.10					
12		5.3	4.97	10.27					
13		5.3	4.97	10.27					
14		$5.7^{+0.1}$	5.9 4.86	10.66					
15		5.7	4.88	10.58					
16		6.0	4.82	10.82					
17		$5.9^{+0.1}$	5.8 6.0 4.84	10.74					
18		6.5	4.73	11.23					
19		6.4	4.74	11.14					
20		6.9	4.66	11.56					
21		$6.75^{+0.1}$	7.0 6.9 4.64	11.59					
22		6.8	4.67	11.49					
23		7.5	4.56	12.06					
24		7.5	4.56	12.06					
25		7.7	4.53	12.23					
26		7.9	4.50	12.40					
27		$8.6^{+0.1}$	8.7 8.5 4.40	13.00					
28		8.5	4.43	12.93					

mc Series 664

Cand

Scy

January 31, 1917

mc 10860

RS Herdulis 17 + 23

act. corr + .20

	B	C	PC	mag	61	0.97	9.07
a							
b					7.7	0.56	8.26
c					8.0	0.47	8.47
d					8.5	0.30	8.80
e		4.1	5.33	9.43	9.5	<sup>-0.10</sup> <del>0.40</del>	9.40
e'		4.3	5.27	9.57	9.5	<sup>-0.10</sup> <del>0.40</del>	9.40
e''		5.4	4.94	10.34			
f		5.4	4.94	10.34			
g		5.8	4.87	10.67			
h		6.3	4.77	11.87			
k		<sup>6.6021</sup> 6.5	6.7	4.71	11.21		
k'		7.5	4.56	12.06			
l		7.9	4.50	12.40			
m		8.1	4.47	12.57			
n		8.5	4.42	12.92			
o		8.8	4.37	13.17			
p		9.5	4.28	13.78			
var		50	5.03	10.03			



MC Series 664

Bopied Bk. 38, p. 14

Cand

Sel

January 31, 1917

MC 10861

R V Oph

17 + 7.5

alt. corr + 1.2

	$\alpha$	$\delta$	magn	PC		
a	4.0	5.37	9.37	8.9	0.14	9.04
b	4.7	5.17	9.87	9.8	-0.22	9.58
c	<sup>6.90</sup> 7.0	6.8	4.66	11.56		
d	6.0	4.83	10.82			
e	6.1	4.80	10.90			
f	6.1	4.80	10.90			
g	6.3	4.77	11.04			
h	7.5	4.56	12.06			
i	7.6	4.54	12.14			
k	8.0	4.48	12.48			
l	8.5	4.43	12.93			
m	8.5	4.43	12.93			
n	9.0	4.34	13.34			
o			defective (near defect)			
p	9.7	4.26	13.96			
q	9.8	4.24	14.04			
r	9.9	4.23	14.13			

MC Series 664

Copied 38:78

Card

Sci

January 31, 1917

alt. 401 + 22

MC 10862 52 Hercules

	B	C	End	Magn	Ref <sup>11</sup>		
a	4.2	5.30	9.56	9.5	9.7	-0.15	9.45
b	4.3	5.26	9.56	9.8		-0.22	<u>9.58</u>
c	5.2	4.98	10.18				
d	<sup>5.40<sup>11</sup></sup> 5.5	5.34	9.4	10.24			
e	5.8	4.86	10.66				
f	6.2	4.78	10.98				
g	<sup>6.15<sup>10</sup></sup> 6.1	6.24	10.9	10.94			
h	6.7	4.69	11.39				
k	6.7	4.69	11.39				
l	7.5	4.56	12.06				
m	7.7	4.53	12.23				
n	7.8	4.52	12.32				
o	8.0	4.48	12.48				
p	8.2	4.45	12.65				
q	<sup>8.60<sup>11</sup></sup> 8.5	8.74	13.00	13.00			
r	9.0	4.34	13.34				
s	9.7	4.26	13.96				
t	9.9	4.23	14.13				

Images not circular - Segs not in center of fld.



Mc Series 664

Copied B10:143

Cand.

Det

January 31, 1917

mc 10863 Date. Feb 10

Air. corr. - .05

	B	C	pc	ln	magn
1			7.1	0.72	7.82
2			7.9	0.50	8.40
3			8.2	0.40	8.60
4			8.5	0.60 <sup>1</sup>	8.87
5		4.9	5.06	9.96	9.9
6		5.3	4.97	10.27	0.24
7		5.0	5.03	10.03	10.14
8		6.3	4.77	11.07	
9		6.5	6.02 <sup>1</sup>	4.71	11.31
10		7.2	4.61	11.81	
11		7.5	4.56	12.06	
12		7.5	4.56	12.06	
13		7.7	4.53	12.23	
14		7.9	4.50	12.40	
15		8.1	4.47	12.57	
16		8.1	4.47	12.57	
17		8.3	4.45	12.75	
18		8.5	4.42	12.92	
19		9.0	4.34	13.34	
20		9.7	4.26	13.96	

M Series 664

Set

January 31, 1917

MC 10864 Cole

5	B	PC
6		5.3
8		6.1
9		<sup>7.60<sup>L</sup></sup> 7.5 7.7
10		8.5
11	<sup>3.95<sup>OL</sup></sup> 4.0 3.9	8.9
12	4.4	9.8
13	5.1	
14	5.7	
15	6.1	
16	6.5	
17	6.9	
18	7.5	
19	7.7	
20	8.0	
23	8.9	
25	<sup>9.60<sup>L</sup></sup> 9.5 9.7	
26	7	

12

See page 126

I attempted several times -



Mc Series 697

Se V

January 31, 1917

12 45 Mc 11408

Pole

B

C

pc

5.2 1.29

5

6.1 1.01

6

7.2 1.03

8

7.8 1.03

9

8.0 1.02

10

8.60 1.02

11

8.7 8.5 0.95

12

9.1 0.76

13

4.7 5.60

9.60 0.70

14

5.1 5.55

7

15

5.7 5.38

16

6.0 5.40

17

6.2 5.43

18

7.0 5.06

19

7.2 5.22

20

7.40 7.35 33

23

8.0 5.34

25

8.60 8.75 27

26

9.1 5.23

27

9.5 5.19

28

9.7 5.21

Plate fogged. PCs not sharp

Mc Series 697

Copied B7:144

Card.

Set

January 31, 1917

alt. corr - 0.1

MC 11409 2ks 19-0.3

	B	R	Magn	PC	0.81	9.81
1				9.0	0.70	10.40
2	3.9	5.40				
3	4.7	5.60	10.38			
4	5.1	5.73	10.63			
5	6.1	5.80	11.50			
6	7.2	5.93	12.43			
7	7.3	6.00	12.60			
8	7.9	6.27	13.17			
9	8.6	6.55	13.85			
10	8.7	6.58	13.95			
11	9.0	6.85	14.22			
12	9.5	7.26	14.71			
13	9.7	7.46	14.90			
14	9.8	7.54	15.00			
15	9.9	7.62	15.10			
11a	8.9	7.36	13.13			

Plate fogged - images poor. Remaining plates  
in series too poor to measure. H.S.S.



MC Series 727

Sheet no 358

Dev

February 13, 1917

10' 25 MC 11795 Pole

5 B	118.00 P140	PC 5.35 <sup>01</sup> 5.4 5.3 5.3 5.32 <sup>0302</sup>	1.17
6 X		6.3 <sup>6.20<sup>00</sup></sup> 6.3 6.2 6.25 <sup>0505</sup>	0.86
8 X		7.7 <sup>7.70<sup>00</sup></sup> 7.7 7.7 7.70 <sup>00</sup>	0.53
9 X		8.7 <sup>8.60<sup>11</sup></sup> 8.5 8.5 8.55 <sup>0505</sup>	0.28
10 X		9.0 <sup>9.00<sup>00</sup></sup> 9.0 8.90 8.95 <sup>0505</sup>	0.07
11 6	3.90 <sup>00</sup> 0.262 3.9 3.9 3.85 3.88 5.67	9.8 <sup>9.75<sup>01</sup></sup> 9.7 9.60 9.68 <sup>0765</sup>	-0.13
12 7	4.25 <sup>10</sup> 0.312 4.3 4.2 4.3 4.28 5.58	7	
13	4.80 <sup>11</sup> 0.505 4.7 4.7 4.7 4.75 5.55		
14	5.20 <sup>00</sup> 0.505 5.2 5.2 5.1 5.15 5.50		
15	5.60 <sup>11</sup> 0.505 5.5 5.7 5.5 5.55 5.53		
16	6.2 6.2 6.20 <sup>00</sup> 5.20		
17	6.5 6.5 6.50 <sup>00</sup> 5.13		
18	7.2 7.1 7.15 <sup>01</sup> 4.91		
19	7.5 7.5 7.50 <sup>00</sup> 4.92		
20	7.8 7.7 7.75 <sup>01</sup> 4.98		
23	8.5 8.5 8.50 <sup>00</sup> 4.84		
25	9.2 9.2 9.20 <sup>00</sup> 4.67		
26	9.8 9.75 9.75 <sup>0203</sup> 4.58		

Mc Series 727

Copied B9:30

Cand

alt. corr +.20

February 13, 1917

Mc 11796 R Oriens

	B	Pc	magn	Pc	Pc	magn
a		6.4	0.86	7.26		
b		7.5	0.57	8.07		
c		7.5	0.57	8.07		
d		7.7	0.52	8.22		
e	3.7 3.6 3.5 3.4	3.75 <sup>10</sup>	3.8	5.73	9.48 9.85 <sup>01</sup> 9.8 9.8 <sup>00</sup>	
f					9.8 <sup>00</sup>	
g			4.6	5.52	10.12	
h			3.9	5.70	9.60 9.8 <sup>00</sup>	
k			4.7	5.51	10.21	
k <sup>2</sup>			5.2	5.41	10.61	
l			5.4	5.37	10.77	
m			6.3	5.20	11.50	
n			6.5	5.16	11.66	
o			6.3	5.20	11.50	
p			6.8	5.10	11.90	
q			7.1	5.04	12.14	
o' = r			7.5	4.98	12.48	
s			8.7	4.75	13.45	
r' = t			8.0	4.87	12.87	
u			9.3	4.63	13.93	
w			9.8	4.55	14.35	
x			9.8	4.55	14.35	
y			7.0	5.06	12.06	
z			9.7	4.56	14.26	
g'			9.1	4.67	13.77	



Mc Series 427

Copied B 9a:136

Cand.

Bell

February 13, 1917

Mc 11797		Cluster in	Pers.	2	14 + 57.5	5
1	B	C	in magn	5.5 <sup>5.45</sup> 5.4	1.08	6.33
2			6.5 <sup>6.58</sup> 6.5	0.84	7.34	
3			7.5 <sup>7.45</sup> 7.4	0.59	8.04	
4			7.5 <sup>7.50</sup> 7.5	0.57	8.07	
5			8.7 <sup>8.60</sup> 8.5	0.26	8.86	
6		38	5.73	9.53	9.8?	
6a		42	5.63	9.83		
7		42	5.63	9.83		
7a		43	5.60	9.90		
8		50	5.46	10.46		
9		53	5.39	10.69		
9a		53	5.39	10.69		
10		6.1	5.24	11.34	6.1	
11		63	5.80 <sup>2</sup>	11.50	<del>12.00</del>	
12		65	6.7 <sup>6.65</sup> 5.14	11.74		
12a		65	6.5 <sup>6.50</sup> 5.16	11.66		
13		7.1	7.0 <sup>7.05</sup> 5.06	12.11		
14	Rememo. Nov. 2, 1917.	7.7	7.5 <sup>7.60</sup> 4.95	12.55		
15		8.0	7.9 <sup>7.95</sup> 4.88	12.83		
87	16	8.5	8.3 <sup>8.40</sup> 4.80	13.20		
9.0	17	9.8	9.7 <sup>9.60</sup> 4.57	14.17		
18		9.8	9.8 <sup>9.80</sup> 4.55	14.35		

MC Series 727

Copied B8:57

Card.

Set

February 13, 1917

at. corr. 17

mc 11798 b 2 3 + 15							at. corr. 17			
1	B	Cu	magn	<sup>6.05<sup>10</sup></sup> 6.1 6.0	0.94	6.99	26	<sup>7.00<sup>12</sup></sup> 9.1 8.9	4.68	13.68
2				<sup>6.40<sup>00</sup></sup> 6.4 6.4	0.86	7.26	27	<sup>8.95<sup>01</sup></sup> 9.0 8.9	4.70	13.65
3				<sup>6.85<sup>10</sup></sup> 6.9 6.8	0.75	7.60	28	<sup>9.70<sup>00</sup></sup> 9.7 9.7	4.56	14.26
4				<sup>7.60<sup>11</sup></sup> 7.5 7.7	0.53	8.13	29	<sup>9.85<sup>00</sup></sup> 9.8 9.8	4.55	14.35
5				7.5	0.57	8.07	30	<sup>9.85<sup>10</sup></sup> 9.9 9.8	.	.
6				8.1	0.42	8.52				
7				8.8	0.20	9.00				
8				9.0	0.13	9.13				
9				9.2	0.05	9.25				
9a		<sup>3.85<sup>01</sup></sup> 3.8	3.9 5.71	9.56	9.8	.	.			
9b		4.1	5.65	9.76	9.9	.	.			
9c B.		.	.	8.8	0.20	9.00				
10 32		.	.	9.7	-0.13	<u>9.57</u>				
11		3.8	5.72	9.52	9.8	.	.			
12		4.2	5.63	9.83	<sup>9.95<sup>10</sup></sup> 9.9 1.0	.	.			
13		4.9	5.48	10.38						
14		5.3	5.40	10.70						
15		5.5	5.36	10.86						
16		<sup>5.60<sup>21</sup></sup> 5.5	5.75, 34	10.94						
17		6.0	5.26	11.26						
18		6.2	5.22	11.42						
19		<sup>6.60<sup>21</sup></sup> 6.5	6.7 5.14	11.74						
20		7.0	5.06	12.06						
21		7.2	5.03	12.23						
22		7.5	4.98	12.48						
23		7.7	4.94	12.64						
24		7.7	4.94	12.64						
25		8.0	4.87	12.87						



Mc Series 727

ScV

February 13, 1917

Mc 11799			Dr. R. J.	3 + 35	alt. corr. + 0.2
1	B	C	in magn	pc 8.1 0.43 8.53	
2				8.70 <sup>00</sup>	
3				8.7 8.7 0.24 8.94	
4				9.25 <sup>10</sup>	
5				9.7 9.9	
6				4.25 <sup>10</sup>	
7				4.3 4.2 5.63 9.88	
8				4.7 5.52 10.22	
9				5.5 5.35 10.85	
10				5.7 5.32 11.02	
11				5.9 5.27 11.17	
12				6.5 5.16 11.66	
13				6.7 5.13 11.83	
14				7.2 5.03 12.23	
15				7.3 5.01 12.31	
16				7.5 4.98 12.48	
17				7.9 4.90 12.80	
18				8.1 4.86 12.96	
19				8.5 4.78 13.28	
20				9.00 <sup>11</sup>	
21				9.1 8.9 4.68 13.68	
22				9.00 <sup>00</sup>	
23				9.0 9.0 4.68 13.68	
24				9.60 <sup>11</sup>	
25				9.5 9.7 4.58 14.18	
26				9.80 <sup>00</sup>	
27				9.8 9.8 4.55 14.35	

MC Series 727

ScV

February 13, 1917

MC 11800 Sol

5		pc
6		5.3
8		6.2
9		7.1
10		8.5
11	<sup>3.65<sup>10</sup></sup> 3.9 3.8	<sup>8.90<sup>00</sup></sup> 8.9 8.9
12	4.3	<sup>9.60<sup>12</sup></sup> 9.7 9.5
13	4.7	7
14	5.1	
15	5.5	
16	6.2	
17	6.5	
18	7.1	
19	7.5	
20	7.7	
23	8.5	
25	9.2	
26	<sup>9.25<sup>01</sup></sup> 9.8 9.7	
27	7	

12 25

See page 135



mc series 567

ScV

February 26, 1917

10 55 mc 9541 Ofe

5	B	C	9546 P149	PC 5.35-0.1 5.4 5.3 5.10 5.22 1.27
6				6.2 6.2 5.95 6.08 1.03
8				7.3 7.2 7.15 7.20 1.03
9				7.9 7.8 7.80 7.82 1.01
10				7.9 7.9 7.95 7.92 1.10
11				8.7 8.5 8.70 8.65 0.90
12	4.2 4.1	4.20 <sup>00</sup>	4.2 4.10 4.15 <sup>05 05</sup> 5.40	9.1 9.05 <sup>10</sup> 9.0 9.02 <sup>03 02</sup> 0.84
13			4.7 4.5 4.60 <sup>11</sup> 5.26	9.8 9.80 <sup>00</sup> 9.8 9.75 <sup>00 05</sup> 0.55
14			5.2 5.0 5.16 <sup>11</sup> 5.20	
14			5.5 5.5 5.50 <sup>00</sup> 5.15	
15			6.0 5.7 5.85 <sup>21</sup> 5.25	
16			6.3 6.15 6.22 <sup>05 17</sup> 5.18	
17			6.5 6.5 6.50 <sup>00</sup> 5.13	
18			7.0 7.0 7.00 <sup>00</sup> 5.06	
19			7.3 7.3 7.30 <sup>00</sup> 5.12	
20			7.7 7.5 7.65 <sup>11</sup> 5.13	
23			8.2 8.1 8.0 8.05 <sup>01 01</sup> 5.26	
25			8.7 8.5 8.7 8.65 <sup>05 05</sup> 5.22	
26			9.3 9.1 9.20 <sup>11</sup> 5.13	
27			9.8 9.60 9.70 <sup>10 11</sup> 4.99	

Mc Series 567

Scv

February 26, 1917

alt. corr. +.22

Mc 9542 { Mc 1912 } 5 23 + 37.5 (See for Wainwright for Ref)

						Curve magn.	Close to another object	Curve magn.	
a	B								
b						7.9	0.98	8.88	
c						8.7	0.86	9.56	
d	<sup>4.4</sup> 4.3	4.45°	4.5	5.30	9.75	9.5	0.66	10.16	
e			5.2	5.21	10.41				
f			4.7	5.25	10.15	9.7	0.61	10.31	
g			4.9	5.25	10.15	9.7	0.61	10.31	
h			5.3	5.20	10.50				
k			5.5	5.20	10.70				
l			6.0	5.18	11.18				
m			6.2	5.18	11.38				
n			6.9	5.15	12.05				
o <sub>1</sub>			7.5	5.14	12.64				
o <sub>2</sub>			8.0	5.13	13.13				
			8.1	5.13	13.23				
p			<sup>6.9</sup> w. 5.75	5.15	12.05				
p'			7.3	5.14	12.44				
q			7.5	5.14	12.64				
r			8.3	5.13	13.43				
s			<sup>8.60±1</sup> 8.5	8.7	5.12	13.72			
t			9.0	5.12	14.12				
u			<sup>9.60±1</sup> 9.5	9.7	5.09	14.69			



MC Series 567

Dec

February 26, 1917

alt. corr. +.22

MC 9543		May 1960		5 30 + 32.5			
B		C		PC		Curve	
		H. Amigae		Curve Magn.		Magn.	
1				5.1	1.25	6.35	
2				7.1	1.04	8.14	
3				7.7	1.00	8.70	
4				7.9	0.98	8.88	
5	<sup>4.2</sup> 4.1	<sup>4.25</sup> 4.3	5.32	9.57	8.9	0.82	9.72
6		4.7	5.27	9.97	9.3	0.71	10.01
7		5.3	5.20	10.50	9.8	0.59	10.39
8		5.7	5.19	10.89			
9		6.7	5.16	11.86			
10		7.3	5.15	12.45			
11		<sup>7.60 ± 1</sup> 7.57	5.14	12.74			
12		<sup>5.40 ± 1</sup> 7.9	5.14	13.04			
13		8.3	8.5	5.13	13.53		
14		8.7	5.13	13.83			
15		<sup>9.60 ± 1</sup> 9.5	9.7	5.09	14.69		

144

Mc Series 567

February 26, 1917

Scv

Mc 9543 cont.

alt. corr. +2.2

Ref Seq

Ref Seq	B	C	Curve Magn.	PC <sup>6.6011</sup>	Curve	Magn.
1				6.5 6.7	1.07	7.67
2				7.5	1.01	8.51
3				8.1	0.96	9.06
4	<sup>4.2</sup> 4.1	<sup>4.25</sup> 4.3	5.32 9.57	<sup>8.6011</sup> 8.5 8.7	0.88	9.48
5		4.7	5.28 9.98	9.0	0.80	9.80
6		5.5	5.20 10.70			
7		6.1	5.18 11.28			
8		6.2	5.17 11.37			
9		6.8	5.16 11.96			
10		7.1	5.15 12.25			
11		7.5	5.14 12.64			
12		7.7	5.14 12.84			
13		8.0	5.13 13.13			
14		<sup>8.1000</sup> 8.1 8.1	5.13 13.23			
15		<sup>8.6011</sup> 8.5 8.7	5.12 13.72			
16		<sup>8.9000</sup> 8.9 8.9	5.12 14.02			
17		<sup>9.1521</sup> 9.0 9.3	5.11 14.26			
18						
19						



Mc Series 567

ScV

February 26, 1917

Me 9543 Var. Seq. V. Quigley

Alt. corr. +.22

	B	C	PC	Curve	magn.
a			7.4	near 1.0, 2	8.42
b			6.5	1.07	7.57
c			8.0	0.97	8.97
d			7.57.7	1.00	8.60
e			8.3	0.94	9.24
f	4.7	5.28	9.98	9.1	0.78 9.88
g	4.3	5.32	9.62	near br. object	
h	4.7	5.28	9.98	9.2	0.75 9.95
k	6.2	5.18	11.38		
l	4.9	5.25	10.15		
l'	6.1 5.9	5.18	11.18		
m	6.3	5.17	11.47		
n	6.5 6.7	5.17	11.77		
o	6.3 6.5	5.17	11.57		
p	6.5	5.17	11.67		
q	6.5	5.17	11.67		
r	7.5	5.14	11.64		
s	7.0	5.15	12.15		
t	7.5	5.14	12.64		
u	7.9	5.13	13.03		
v	8.2	5.13	13.33		
w	8.2	5.13	13.33		
x	9.0 8.9	5.12	14.07		
	9.3 9.5	5.10	14.50		





Mc Series 567

February 26, 1917

Del

Mc 9544

Var Seq

PSS Tami

alt. corr. +.17

a									
a'									
b									
c = b'									
c									
c'	4.25 4.1	4.25	4.3	5.32	9.57	9.1	0.78	9.88	
d									
d'									
d <sup>2</sup>									
dbl? e									
e'									
f									
f'									
g									
g'									
h									
h'									
k									
k'									
l									
l'									
m									
n									
o									
p									
q									
r									
s									
t									
u									

148

Mc Series 567

Cand.

February 26, 1917

alt. corr. +2.0

MC 9545 (Ref)				5 59 + 25.0		
	B	Curve Magn.	pc	Curve Magn.		
1			6.2	1.10	7.30	
2			8.1	0.96	9.06	
3	4.2	5.34	9.54	9.0	0.80	9.80
4	4.5	5.30	9.80	9.1	0.78	9.88
5	4.7	5.27	9.97	9.3	0.72	10.02
6	4.9	5.25	10.15	9.5	0.66	10.16
7	5.5	5.20	10.70			
8	5.4	5.20	10.60			
9	6.1	5.18	11.28			
10	6.3	5.18	11.48			
11	6.9	5.16	12.06			
12	7.3	5.15	12.45			
13	7.5	5.15	12.65			
14	8.1	5.14	13.24			
15	8.1	5.14	13.24			
16	8.3	5.14	13.44			
17	8.7	5.13	13.83			
18	<sup>8.95</sup> 9.0	8.9	5.12	14.07		
19	9.3	5.10	14.40			
20	<sup>9.60</sup> 9.5	9.7	5.09	14.69		
26	4.0	5.37	9.37	8.9	0.82	9.72
2a	4.9	5.25	10.15			
1a	7.7?	5.14	12.84?			

Plate broken across center - plate fogged? not good



Mc Series 567

Oct

February 26, 1917

Mc 9546 Bde.

5				pc 6.10 <sup>00</sup>
6				5.1 5.1
8				6.0 5.9 <sup>01</sup>
9				7.2 7.1 <sup>01</sup>
10				7.8 7.8 <sup>00</sup>
11	4.1	4.10 <sup>00</sup>	4.1	8.0 7.9 <sup>01</sup>
12		4.5		8.7 8.7 <sup>00</sup>
13		5.0		9.0 9.0 <sup>00</sup>
14		5.5		9.7 9.7 <sup>00</sup>
15		5.7		
16		6.2 6.1 <sup>01</sup>		
17		6.5		
18		7.0		
19		7.3		
20		7.5		
23		8.0		
25		8.7		
26		9.1		
27		9.5 9.7 <sup>01</sup>		

15

See page 141

Raining - light - poor

150

MC Series 567

February 27, 1917

Sel

1	05	MC 9546	Bol				
5	B	C	9.552 10.159		PC	5.2	4.9 5.05 <sup>11</sup> 1.44
6					5.7	5.15 5.60 <sup>11</sup>	1.51
8					7.2	7.25 <sup>10</sup> 7.15 <sup>05-05</sup>	1.08
9					7.9	7.5 7.70 <sup>23</sup>	1.13
10					8.0	7.8 7.90 <sup>12</sup>	1.12
11	4.1 4.0	4.10 <sup>05-05</sup>	4.10 <sup>11</sup> 4.240 <sup>11</sup>	4.10 <sup>6</sup> 4.18	5.45	8.5 8.3 8.40 <sup>11</sup>	1.15
12			4.5 4.1 4.30 <sup>23</sup>	5.56	9.0	9.0 9.00 <sup>00</sup>	0.86
13			5.1 4.5 4.80 <sup>33</sup>	5.50	9.8	9.4 9.60 <sup>00</sup>	0.70
14			5.5 5.2 5.35 <sup>15</sup>	5.30			
15			5.7 5.5 5.60 <sup>11</sup>	5.48			
16			6.3 5.9 6.10 <sup>23</sup>	5.30			
17			6.5 6.2 6.35 <sup>13</sup>	5.28			
18			6.9 6.7 6.90 <sup>00</sup>	5.16			
19			7.3 7.2 7.25 <sup>10</sup>	5.17			
20			7.40 <sup>11</sup> 7.3 7.5 7.45 <sup>05-05</sup>	5.28			
23			7.9 7.95 7.95 <sup>05-05</sup>	5.42			
25			8.5 8.50 8.65 <sup>15-15</sup>	5.22			
26			8.9 9.1 9.00 <sup>11</sup>	5.33			
27			9.40 <sup>11</sup> 9.3 9.5 9.55 <sup>15-15</sup>	5.14			
28			9.9 <sup>9</sup>	5.21			



Mc Series 567

Cards.

February 27, 1917

Dev

	mc 9547	B	c	Gemin	6	20 + 20	Ref Seq	Alt. corr. +.18
1				Curve Magn.	6.7	1.27	7.957	
2					7.5	1.12	8.62	
3					8.0	1.03	9.03	
4					8.2	1.00	9.20	
5	3.8	5.54	9.34	8.6	0.90	9.50		
6	3.9	5.53	9.43	8.6	0.90	9.50		
7	5.1	5.42	10.52					
8	5.2	5.41	10.61					
9	5.5	5.39	10.89					
10	6.0	5.36	11.36					
11	6.4	5.34	11.74					
12	6.5	5.34	11.84					
13	6.7	5.33	12.03					
14	7.1	7.0	5.32	12.37				
15	7.2	5.31	12.51					
16	7.3	7.5	5.30	12.70				
17	7.5	5.30	12.80					
18	8.1	5.29	13.39					
19	8.5	8.7	5.27	13.87				
20	8.9	5.25	14.15					
21	9.3	9.5	5.22	14.62				

MC Series 567

Cand.

Dev

February 27, 1917

Alt. corr. +.13

MC 9548				Eros. 6 20 + 10		
	B	C		PC	Curve Magn.	
1			Curve Magn.	7.1	1.20	8.30
2				7.7	1.09	8.79
3				8.3	0.97	9.27
3a				8.5	0.92	9.42
4		4.3	5.50	9.80	9.8	
5		5.5	5.39	10.89		
6		<sup>6.6011</sup> 6.5 6.7	5.33	11.93		
7		6.3	5.35	11.65		
8		6.3	5.35	11.65		
9		<sup>6.6011</sup> 6.5 6.7	5.33	11.93		
10		7.0	5.32	12.32		
11		7.1	5.32	12.42		
12		7.5	5.30	12.80		
13		7.5	5.30	12.80		
14		7.5	5.30	12.80		
15		7.7	5.30	13.00		
16		<sup>7.9510</sup> 7.9 8.0	5.30	13.25		
17		8.5	5.28	13.78		
18		8.9	5.25	14.15		
19		9.0	5.24	14.24		
20		9.9?	5.19	15.09?		
21				5.4	1.49	6.89
22				8.0	1.03	9.03
B				5.3	1.50	6.80
2a				8.0	1.03	9.03



Mc Series 567

Card.

Dev

February 27, 1917

Mc 9549 N9c 2201

Cl. Seq

a<sup>2</sup>  
a'  
b  
c  
c'  
d  
d'  
e

Curve Magn.

Surf.

Curve Magn.

c'

pc

St. in  
Sec

9.90

91 0.80

5.9<sup>5.85'</sup> 5.8 5.37<sup>11.22</sup>  
5.9 5.36<sup>11.26</sup>

6.7

5.128 7.98

7.7

1.09 8.79

8.5<sup>8.40</sup> 8.3

0.95 9.35

7.5<sup>8.40</sup> 8.5

0.95 9.35

8.3 8.5

0.89 9.49

8.7

0.89 9.49

4.9 5.44 10.34

5.1 5.42 10.52

5.5 5.39 10.89

5.5 5.39 10.89

6.2 5.35 11.55

6.5 5.34 11.84

6.5 5.34 11.84

6.5<sup>7.40</sup> 5.34 11.847.3<sup>7.40</sup> 5.30 12.70

7.9 5.30 13.20

8.3 5.28 13.58

8.7 5.26 13.96

8.7 5.26 13.96

9.8 5.20 15.00

4.7 5.46 11.16

4.2<sup>7.1?</sup> 5.1? 0.80 9.90?

5.3 5.40 10.70

3.9<sup>8.60</sup> 5.53 9.43 8.7 8.5 0.90 9.50

5.3 5.40 10.70

6.3 1.34 7.64

8.1 1.00 9.10

8.5<sup>8.60</sup> 8.7 0.90 9.50

8.7 0.89 9.59

9.1 0.80 9.90

4.3 5.50 9.80

4.7 5.46 10.16

pc's poor - happy =  
Reg. crowded and ink  
lines very much in way

Over

Mc Series 567

Card.

B c

February 27, 1917

Alt. corr. +.05

Mc 9549 - Ref. neg.		Curve Magn.			PC	Curve	Magn.
1	B				7.5	1.12	8.62
2					7.7	1.09	8.79
3					8.3	0.97	9.27
3a					7.9	1.05	8.95
4		4.2	5.51	9.71	9.1	0.80	9.90
4a		4.8	5.45	10.25			
5		4.3	5.50	9.80	9.3?	0.76	10.06?
6		<sup>4.95<sup>01</sup></sup> 5.049	5.44	10.39			
7		4.8	5.44	10.24			
8		5.3	5.40	10.70			
9		<sup>4.00<sup>11</sup></sup> 6.159	5.36	11.36			
10		6.5	5.34	11.84			
11		<sup>6.60<sup>11</sup></sup> 6.567	5.33	11.93			
12		7.0	5.32	12.32			
13		7.1	5.32	12.42			
14		7.5	5.30	12.80			
15		7.5	5.30	12.80			
16		7.8	5.30	13.10			
17		7.7	5.30	13.00			
18		8.7	5.26	13.96			
19		<sup>9.95<sup>10</sup></sup> 8.970	5.25	14.20			
20		9.5	5.22	14.72			



Mc Series 567

Card.

Sel

February 27, 1917

alt. corr. -.05

Mc 9550		Mc 2328		6 50-75		
Cl. Seq		B	C	Curve Magn.	PC	Curve Magn.
a					6.7	1.28 7.98
b					7.1	1.20 8.30
c					7.3	1.16 8.46
d					7.8	1.07 8.87
e					8.3	0.97 9.27
f	4.0	5.52	9.52	8.9	0.85	9.75
g	3.9	5.53	9.43	8.9	0.85	9.75
h	4.3	5.50	9.80	9.3	0.76	10.06
K	4.3	5.50	9.80	9.5?	0.73	10.23?
L	4.7	5.45	10.15			
m	4.7	5.45	10.15			
n	5.2	5.41	10.61			
o	5.5	5.39	10.89			
p	5.9	5.36	11.26			
q	6.0	5.36	11.36			
r	6.1	5.35	11.45			
s	6.5	5.34	11.84			
t	<sup>6.9501</sup> 7.0 6.9	5.32	12.27			
u	7.3	5.30	12.60			
w	<sup>7.6021</sup> 7.5 7.7	5.30	12.90			
x	8.1	5.29	13.39			
y	<sup>8.9520</sup> 8.9 9.0	5.25	14.20			
z	9.5	5.22	14.72			

over

Mc Ser 567

February 27, 1917

Cand.

Scy

alt. corr. -12

	mc 9551	Ref	Curve magn.	pc	Curve magn.	
1	B	C		6.5	1.30	7.80
2				7.5	1.12	8.32
3				7.9	1.05	8.95
4		4.3	5.50	9.80	<sup>9.6011</sup> 9.5 9.7	0.73 10.33
5		5.0	5.44	10.44		
6		5.4	5.40	10.80		
7		6.3	5.35	11.65		
8		6.5	5.34	11.84		
9		6.8	5.33	12.13		
10		7.1	5.32	12.42		
11		7.2	5.31	12.51		
12		<sup>9.6011</sup> 7.5 7.7	5.30	12.90		
13		<sup>9.6011</sup> 7.5 7.7	5.30	12.90		
14		7.9	5.30	13.20		
15		7.9	5.30	13.20		
16		<sup>8.1000</sup> 8.1 8.1	5.29	13.39		
17		<sup>8.14012</sup> 8.5 8.3	5.28	13.68		
18		<sup>9.0000</sup> 9.0 9.0	5.25	14.25		
19		<sup>9.0510</sup> 9.1 9.0	5.24	14.29		
20		<sup>9.6011</sup> 9.5 9.7	5.21	14.81		



Mc Ser 567

February 27, 1917

8c4

Mc 9552 Bole

5	B	C	10C
6			4.9
8			5.5
9			7.2 <sup>1011</sup> 7.0
10			7.5
11			7.8
12		4.1	8.3
13		4.5	9.0
14		5.2	9.4
15		5.5	
16		5.9	
17		6.2	
18		6.9	
19		7.2	
20		7.5	
23		7.9 <sup>1011</sup> 7.9	
25		8.9 <sup>1011</sup> 8.7	
26		9.1	
27		9.7	

3 45 imp page 150

MC Series 659

Dev

March 6, 1917

11	40	MC 10799	Bolt	10804 P165	PC				
5	B				5.1	5.0	5.05 <sup>10</sup>	1.44	
6					5.7	5.6	5.65 <sup>10</sup>	1.46	
8					7.1	6.9	7.00 <sup>12</sup>	1.23	
9					7.7	7.7	7.70 <sup>00</sup>	1.13	
10					8.0	7.9	7.95 <sup>21</sup>	1.07	
11	4.0 3.9	4.00 <sup>00</sup>	4.0	4.00 <sup>22</sup>	5.55	8.7	8.5	8.60 <sup>11</sup>	0.95
12			4.4	3.9 4.15 <sup>22</sup>	5.71	9.0	9.0	9.00 <sup>00</sup>	0.86
13			4.9	4.4 4.65 <sup>32</sup>	5.65	9.5	9.7	9.60 <sup>21</sup>	0.78
14			5.3	5.1 5.20 <sup>11</sup>	5.45				
15			6.0	5.90 <sup>12</sup> 5.85 5.70 <sup>2022</sup>	5.38				
16			6.2	5.8 6.00 <sup>22</sup>	5.40				
17			6.5	6.20 6.35 <sup>1525</sup>	5.28				
18			7.0	6.7 6.85 <sup>21</sup>	5.21				
19			7.3	7.0 7.15 <sup>12</sup>	5.27				
20			7.7	7.5 7.40 7.50 <sup>1012</sup>	5.23				
23			8.1	8.0 8.05 <sup>10</sup>	5.29				
25			8.9	9.0 8.95 <sup>10</sup>	4.92				
26			9.3	9.60 9.45 <sup>515</sup>	4.88				
27			9.8	9.6 <sup>22</sup>	4.89				



MC Series 659 Copied 1310:166

Cand.

Sev

March 6, 1917

me 10800 Barte 16 0-23.5 red. corr. = 48

	B	C	in	magn	PC	Cu	magn
1					6.1	1.39	7.49
2					7.7	1.13	8.83
3					9.0	0.86	9.86
4	<sup>4.4</sup> 4.3	<sup>4.50<sup>21</sup></sup> 4.5	4.6	5.64	10.14	9.8	0.70 <u>10.50</u>
5			5.3	5.48	10.78		
6			<sup>5.60<sup>12</sup></sup> 5.7	5.55.42	11.02		
7			6.1	5.30	11.45		
8			6.2	5.33	11.53		
9			7.0	5.24	12.24		
10			7.3	5.21	12.51		
11			7.5	5.19	12.69		
12			7.7	5.17	12.87		
13			8.0	5.12	13.12		
14			<sup>8.40<sup>21</sup></sup> 8.3	8.55.06	13.46		
15			8.9	5.00	13.96		
16			<sup>9.60<sup>21</sup></sup> 9.5	9.74.92	14.52		

162

Mc Series 659

Copied B9a:216

ScV

March 6, 1917

Cand

alt. com - 0.5

Mc 10801 SW Dph - 16 10-7.5						
	B	C	C	magn	PC	
a		4.4	5.67	10.87	9.3	0.80 10.10
b		4.0	5.77	9.77	9.1	0.83 9.93
c		5.1	5.51	10.61		
d		5.5	5.44	10.94		
e		4.9 <sup>5.10</sup>	5.53	10.48		
f		6.5	5.30	11.80		
g		6.1	5.34	11.44		
h		6.7	5.27	11.97		
i		7.0	5.24	12.24		
j		7.3	5.20	12.50		
k		7.5	5.19	12.69		
l		8.1	5.10	13.20		
m		8.5	5.04	13.54		
n		8.7	5.02	13.72		
o		8.9	5.00	13.90		
p		9.5	4.93	14.43		
q		5.4	5.46	10.86		
SW	<sup>3.9</sup> 3.8	3.90	3.91		8.8	0.90 9.70



Mc Series 659

Set

March 6, 1917

alt. cond - 53

	MC 10802	Eros	16	40-25			
	B	C	Cu	magn	PC	Cu	magn
1					6.7	1.30	8.00
2					7.8	1.12	8.92
3		<sup>3.9021</sup>	38	40	9.5	0.76	10.26
4		4.2	5.70	9.90	F		
5		4.7	5.59	10.29			
6		5.1	5.51	10.61			
7		5.6	5.42	11.02			
8		6.0	5.36	11.36			
9		6.1	5.23	11.43			
10		<sup>6.8021</sup>	6.7	6.9	5.27	12.07	
11		<sup>6.8510</sup>	6.9	6.8	5.27	12.12	
12		7.1	5.23	12.33			
13		7.1	5.23	12.33			
14		7.3	5.21	12.51			
15		7.9	5.13	13.03			
16		8.3	5.08	13.38			
17		<sup>8.6021</sup>	8.8	8.7	5.03	13.63	
18		9.0	4.99	13.99			
19		tp	7				
20		tp	7				

All images poor. large &amp; hazy

MC Series 659

Copied B 8:132

Set

March 6, 1917

Card

alt. corr. -15

MC 10803		Dg 17-15		PC Cu		magn	C		C	
1	B	C	Cu	magn	PC	Cu	magn	29	7.7	7.9
2					60	1.40	7.40	30	8.1	8.3
3					6.1	1.38	7.48	31	8.7	8.7
4					6.1	1.38	7.48	32	9.1	9.0
5					6.4	1.35	7.75	33	8.7	8.9
6					7.3	1.20	8.50	34	9.1	9.0
7					7.7	1.13	8.83	35	9.7	
near edge 8					7.1	1.24	8.24	36	F	
9					7.5	1.17	8.67	37	9.5	
10					8.8	0.90	9.70			
11					8.9	0.87	9.77			
12					8.8	0.90	9.70			
13		3.9			9.0	0.85	9.85			
14		4.2	5.70	9.90	9.5	0.75	10.25			
15		4.0	4.15.76	9.81	9.3	0.80	10.10			
16		4.2	5.70	9.90	9.8	0.70	10.50			
17		4.3	5.69	9.99	9.8	0.70	10.50			
18		5.0	5.53	10.53						
19		5.1	5.51	10.61						
20		5.3	5.48	10.79						
21		5.5	5.44	10.94						
22		5.7	5.40	11.10						
23		6.1	5.34	11.44						
24		6.1	5.34	11.44						
25		6.7	5.27	11.97						
26		6.9	5.26	12.16						
27		7.6	5.17	12.77						
28		7.5	5.19	12.69						



MC Series 659

March 6, 1917

Scy

MC 10804 Pole

94	5	<sup>13</sup>	C	pc
329	6			5.0 close to another im.
1292	8			5.6
1403	9			6.9
1291	10			7.7
1403	11			7.9
1460	12			8.5
	13	3.9		9.0
	14	4.4		
442	15	5.1		
	16	5.5		
	17	5.8		
	18	<sup>6.20±1</sup> 6.1 6.3		
	19	6.7		
	20	<sup>7.40±1</sup> 7.3 7.5		
	23	8.0		
	25	9.0		
	26	<sup>9.60±1</sup> 9.5 9.7		
	27	J		

1 15 see page 160

166

mc Series 746

Dev

March 8, 1917

10 00

mc 12224 Bole

5	B	c	12230 P170	PC 5.35 <sup>01</sup> 5.4	5.3	5.25	5.30	1.19
6				6.0 <sup>6.0000</sup>	6.0	6.10	6.05 <sup>05.05</sup>	1.06
8				7.5 <sup>7.45<sup>10</sup></sup>	7.4	7.60	7.52 <sup>07.05</sup>	0.71
9				8.1 <sup>8.1000</sup>	8.1	8.30	8.20 <sup>10.10</sup>	0.63
10	2.6 2.9		3.0 3.00°	6.02	8.3	8.40	8.35 <sup>05.05</sup>	0.67
11	3.8 3.7	3.85 <sup>01</sup>	3.90 <sup>13.12</sup>	3.72	5.83	8.9	8.75 8.82 <sup>05.07</sup>	0.73
12			4.2 4.00 4.10 <sup>10.10</sup>	5.76	9.5	9.5	9.50 <sup>00</sup>	0.36
13			4.7 4.7 4.70°	5.60	7	9.9	9.9 <sup>00</sup>	0.40
14			5.0 5.0 5.00°	5.65				
15			5.7 5.5 5.60 <sup>11</sup>	5.48				
16			6.0 6.0 6.00°	5.40				
17			6.3 6.3 6.30°	5.33				
18			6.9 6.8 6.85 <sup>10</sup>	5.21				
19			7.2 7.2 7.20°	5.23				
20			7.5 7.5 7.50°	5.23				
23			8.1 8.0 8.05 <sup>10</sup>	5.29				
25			8.7 8.7 8.70°	5.17				
26			9.40 <sup>11</sup> 9.5 9.3 9.40 <sup>9.40°</sup>	4.93				
27			9.80 <sup>00</sup> 9.8 9.8 9.85 <sup>05.05</sup>	4.84				



MC Series 746

Copied B7:123

Card.

Dev

March 8, 1917

MC 12225		120 K	4	12-15	air. corr. - 18	
1	<sup>2.7</sup> 2.8	C	e	magn	<sup>8.602</sup> 8.7	8.5 0.55 9.15
2	<sup>3.4</sup> 3.3		5.90	9.30	9.1	0.48 9.58
3	<sup>4.05</sup> <sup>4.1</sup> 4.0 <sup>0.023</sup> 4.0 3.9 4.08	4.1	5.75	9.83	7	
4		5.35	5.20	10.82		
5		5.8	5.43	11.23		
6		6.1	5.38	11.48		
7		<sup>6.802</sup> 6.9	6.75	12.07		
8		7.5	5.20	12.40		
9		8.5	5.11	13.61		
10		9.0	5.03	14.03		
11		<sup>9.402</sup> 9.3	9.5	14.36		
12		<sup>9.752</sup> 9.7	9.8	14.62		
13		7				
14		7				
15		7				

Plate does not show ft stars.

Mc Series 746

Copied B 10:124

ScV

March 8, 1917

Card

det. out. 0.3

mc 12228 Barte. 5 - 2.5						
$\beta$	$\beta$	$c$	$l_u$	magn	PC	
					$8.8^{+0.15}_{-0.10}$	$8.7^{+0.53}_{-0.77}$
					$8.3^{+0.30}_{-0.30}$	$8.3^{+0.62}_{-0.07}$
1	$3.4$ $3.3$		5.90	9.30	9.0	0.50 9.50
2	$4.2$ $4.3$	$4.30''$	4.3	5.72	10.02	10.0 0.86 <u>10.86</u>
3			5.1	5.55		10.65
4			6.1	5.36		11.48
5			6.5	5.33		11.83
6			7.1	5.22		12.33
7			7.5	5.19		12.69
8			7.7	5.17		12.87
9			8.1	5.15		13.25
10			8.9	5.06		13.96
11			$9.85^{+0.10}_{-0.10}$	9.9	9.8	4.84 <u>14.69</u>
12			tr. ft			
13			tr. ft			
14			7			
15			7			

See Plate. images not circular and poorly defined especially faint ones.



Mc Series 746

Epoch 1310.28

Cand.

March 8, 1917

Set

mc 12229 base 5 +54.5

alt. corr +.21

	B	C	ln	magn	pc		
1					<sup>6.75<sup>0.1</sup></sup> 7.0	<sup>6.9</sup> 6.9	0.85 7.80
2					<sup>7.20<sup>0.0</sup></sup> 7.2	<sup>7.2</sup> 7.2	0.80 8.00
3	<sup>2.8</sup> 2.7				<sup>8.40<sup>1.2</sup></sup> 8.5	<sup>8.3</sup> 8.3	0.58 8.98
4	<sup>2.4</sup> 3.0		5.90	9.30	8.9		0.50 9.40
5	<sup>4.2</sup> 4.1	4.20 <sup>0.0</sup>	4.2	5.73	9.93	9.8	0.39 10.19
6			4.5	5.68			10.18
7			5.0	5.58			10.58
8			5.2	5.55			10.75
9			5.9	5.41			11.31
10			6.1	5.38			11.48
11			6.3	5.35			11.65
12			<sup>6.60<sup>1.2</sup></sup> 6.7	5.30			11.90
13			6.5	5.32			11.82
14			6.9	5.27			12.17
15			7.2	5.22			12.42
16			7.5	5.20			12.70
17			7.9	5.16			13.06
18			8.5	5.11			13.61
19			8.9	5.05			13.95
20			<sup>9.70<sup>1.2</sup></sup> 9.7	4.86			14.61

170

Mc Series 746

ScV

March 8, 1917

Mc 12230 Pole

5 8 c

6

8

9

10 <sup>3.0</sup> 2.911 <sup>3.6</sup> 3.512 <sup>4.0</sup> 3.9 4.00° 4.0

13 4.7

14 5.0

15 5.5

16 6.0

17 6.3

18 6.8

19 7.2

20 7.5

23 8.0

25 8.7

26 <sup>9.40°</sup> 9.5 9.3

27 9.9

PC 5.25°

5.3 5.2

6.1 <sup>6.10°</sup> 6.17.7 <sup>7.60°</sup> 7.58.3 <sup>8.30°</sup> 8.38.5 <sup>8.40°</sup> 8.38.7 <sup>8.75°</sup> 8.8

9.5

9.9

Defective film.

11

10

See page 166



MC Series 660

Sheet no 374

Det

March 17, 1917

1 10 MC 10807 Pole

	B	C	10813 P179	PC			
5				5.0	5.10	5.15 <sup>01</sup>	1.44
6				5.8	5.70	5.75 <sup>01</sup>	1.36
8				7.2	7.05	7.12 <sup>0807</sup>	1.11
9				8.0	7.95	7.98 <sup>0203</sup>	0.85
10	3.4 3.3		3.2 3.30 <sup>11</sup>	5.72	8.1	8.2	8.15 <sup>10</sup> 0.87
11	3.9 3.8	3.95 <sup>20</sup>	4.0 3.90 3.92 <sup>0302</sup>	5.63	8.6	8.7	8.65 <sup>01</sup> 0.90
12			4.3 4.30 4.30 <sup>00</sup>	5.56	9.0	9.0	9.00 <sup>00</sup> 0.86
13			4.9 4.9 4.90 <sup>00</sup>	5.40	9.8		9.8 <sup>02</sup> 0.50
14			5.7 <sup>5.60<sup>11</sup></sup> 5.5 5.25 <sup>1817</sup> 5.92 5.23				
15			6.0 5.9 5.95 <sup>01</sup>	5.13			
16			6.4 6.3 6.35 <sup>01</sup>	5.05			
17			6.6 6.7 6.65 <sup>01</sup>	4.98			
18			7.1 7.2 7.15 <sup>00</sup>	4.91			
19			7.5 7.5 7.50 <sup>00</sup>	4.92			
20			7.9 8.0 7.95 <sup>10</sup>	4.78			
23			8.5 8.5 8.50 <sup>00</sup>	4.84			
25			9.0 9.0 9.00 <sup>00</sup>	4.87			
26			9.5 9.60 9.55 <sup>00</sup>	4.78			
27			9.9 9.9 <sup>00</sup>	4.79			

172

Mc Series 660

April FK 9 a p. 206

Sex

March 17, 1917

Cand

alt. corr +.17

Mc 10808		J S Bone		16.50 + 17.5			
a	B <sub>3.5</sub> 3.4	c	cu	magn	pc	cu	magn
			5.72	9.32	8.3	8.5	9.30
b	3.9	4.00°	4.0	5.60	9.60	9.0	9.2
					9.10	0.80	9.90
c			4.6	5.44	10.04	9.8	0.73
							10.53
d			4.9	5.37	10.27	10.0	0.71
							10.71
e			5.5	5.25	10.75		
f			6.0	5.14	11.14		
g			6.5	5.04	11.54		
h			6.5	5.02	11.62		
k			7.0	4.97	11.97		
l			7.2	4.94	12.14		
m			7.5	4.90	12.40		
n			7.5	4.90	12.40		
o			7.7	4.88	12.58		
p			8.0	4.86	12.86		
q			8.5	4.84	13.34		
r			8.7	4.83	13.53		
s			8.9	4.80	13.75		
t			9.3	4.80	14.20		
J J	3.4 3.3		5.75	9.15	8.8	0.83	9.63



Mc Series 660

Cards

Sel

March 17, 1917

Det. corr +.2

Ref.	mc 10809	S U Hore. 17	10 + 32.5	pe	en	magn	
1	B	C	En Magn	5.9	1.33	7.23	
2				6.7	1.18	7.88	
3				7.3	1.08	8.38	
4				7.7	1.01	8.71	
5	<sup>3.4</sup> 3.3		5.74	9.14	<sup>8.20</sup> 8.183	0.92	9.12
6	<sup>3.4</sup> 3.3		5.74	9.14	8.5	0.88	9.34
7	<sup>4.1</sup> 4.0	4.15 <sup>10</sup>	4.2 5.54	9.69	9.2	0.78	9.98
8			4.9 5.37	10.27			
9			5.5 <sup>5.60</sup> 5.7 5.22	10.82			
10			5.9 6.17	11.07			
11			6.2 5.11	11.31			
12			6.5 5.05	11.55			
13			7.0 4.97	11.97			
14			7.3 4.92	12.22			
15			7.8 4.86	12.66			
16			8.0 4.85	12.85			
17			8.4 4.84	13.24			
18			9.0 4.81	13.81			
19			9.3 4.80	14.10			
20			9.7 4.78	14.48			

Over

174

MC Series 660

Copied B9:175

Cand.

March 17, 1917

alt. work +.21

Var. Seq

	B	C	Cu	Magn	PC	Am	magn
a					7.0 <sup>7.00</sup>	1.13	8.13
b	<sup>3.1</sup> 3.0		5.80	8.90	8.1 <sup>8.05</sup>	0.96	9.01
c	<sup>3.6</sup> 3.7	3.85 <sup>01</sup>	3.9	5.63	9.0	0.80	9.80
d			4.3	5.52	9.5	0.76	10.26
e			4.8	5.39			
f			5.3	5.27			
g			5.1	5.32			
h			5.7 <sup>5.80</sup>	5.95.19			
i			6.4	5.06			
j			7.3	4.92			
k			7.9	4.89			
l			8.3 <sup>8.40</sup>	8.54.83			
m			8.5	4.83			
n			8.8	4.82			
o			9.0	4.80			
p			9.7	4.78			
q			9.8	4.78			
r							
s							

Images not circular.



MC Series

Copied Bk 94 p. 207

Set

March 17, 1917

alt. corr. +.21

MC 10810 37 Here. 17 24 + 42.5

Ref	B	C	Alt	Magn	PC	Alt	Magn
1	3.5				7.7	7.8	1.00
2	3.4		5.72	9.22	8.5	8.5	0.88
3	3.9	4.00	4.0	5.60	9.0		0.80
4	4.0	4.15	4.2	5.54	9.3		0.78
5			4.7	5.42	9.8		0.73
6			5.0	5.35			
7			5.8	5.18			
8			5.9	5.17			
9		6.15	6.2	5.11			
10			6.2	5.10			
11			6.5	5.04			
12		6.95	6.9	4.98			
13			7.1	4.95			
14			7.3	4.92			
15			7.5	4.90			
16			8.0	4.86			
17			8.2	4.85			
18			8.7	4.82			
19			9.0	4.80			
20			9.8	4.78			

over

176

MC Series 660

Cupid Bk 9a; <sup>173</sup>207  
Cand.

Del

March 17, 1917

Red. corr +.21

MC 10810 (cont)		BX Here			
Var. Seq	a	B	c	PC	an magn
				6.9 <sup>6.85</sup> 6.8	1.16 8.01
				7.4	1.06 8.46
				7.9	0.98 8.88
	d	<sup>3.8</sup> 3.7	<sup>3.82</sup> 3.8	<sup>3.85</sup> 3.9	5.63 9.45 9.5
					0.76 10.26
	e	<sup>3.5</sup> 3.4		5.72	9.22 8.8
					0.83 9.63
	f	<sup>4.2</sup> 4.1	<sup>4.25</sup> 4.1	4.3	5.53 9.78 9.7
					0.73 10.43
	g	<sup>4.3</sup> 4.2	<sup>4.35</sup> 4.2	<sup>4.40</sup> 4.3	4.5 5.50 9.85 9.8
					0.72 10.52
	h		5.0	5.34	10.34
	k		5.3	5.27	10.59
	l		5.7	5.20	10.90
	m		6.2	5.10	11.30
	n		7.1	4.95	12.05
	o		7.5	4.90	12.40
	p		<sup>7.60</sup> 7.5	7.7	4.89 12.49
	q		8.3	4.84	13.14
	r		9.3	4.80	13.10
	s		9.0	4.80	13.80
	t		9.8	4.78	14.58



Mc Series 660

Copied Bk. 38, p. 14.

Card.

Sev

March 7, 1917

mc 10811		AV Oph-		30 + 7.5		red. corr +.11	
B	C	Cu	magn	8.7	0.84	9.54	
a	4.1	4.2	5.35	9.70	93	0.77	10.07
b	4.0	4.15 <sup>10</sup>					
c		6.3	5.08	11.38			
d		5.3 <sup>2012</sup>	5.1530	10.50			
e		5.3	5.27	10.57			
f		5.6	5.23	10.83			
g		7.0	4.97	11.97			
h		7.5	4.90	12.46			
k		7.7	4.88	12.58			
l		7.9	4.86	12.76			
m		8.0	4.85	12.85			
n		8.6	4.83	13.43			
o		8.9	4.80	13.70			
p		9.3	4.80	14.10			
q		9.7	4.78	14.48			
r		7					
y		5.9	5.17	11.07			

178

Mc Series 660

Copied 38:78

Cands

Set

March 17, 1917

Mc 10812 S. Q. Here - 17 30 + 32.5 alt. 1044 + 21

	$\alpha$	$\delta$	$\mu$	$\sigma$	$\rho$	$\tau$
a	3.7	3.85 <sup>01</sup>	3.9	5.63	9.48	8.5 8.7 0.86 9.46
b			4.1	4.557	9.67	9.0 0.80 9.80
c			4.8	4.75 <sup>01</sup> 5.40	10.15	?
d			5.1	5.32	10.42	
e			5.2	5.30	10.50	
f			5.9	5.17	11.07	
g			5.8	5.19	10.99	
h			6.5	5.04	11.54	
k			6.5	6.60 <sup>01</sup> 6.03	11.63	
l			7.1	4.96	12.06	
m			7.2	4.95	12.15	
n			7.7	4.88	12.58	
o			7.7	4.88	12.58	
p			8.0	4.85	12.85	
q			8.5	4.83	13.33	
r			8.5	8.60 <sup>01</sup> 8.7 4.83	13.43	
s			9.5	4.79	14.29	
t			9.8	4.78	14.58	



Mc Series 660

March 17, 1917

Det

Mc 10813 Pole.

B C

5			PC 5.10 <sup>00</sup>
			5.1 5.1
6			5.7 5.7
8			7.1 7.05 <sup>10</sup>
9			7.9 7.95 <sup>10</sup>
10	3.2		8.2
	3.1		
11	3.9	3.96 <sup>00 00</sup>	8.7
	3.8	3.9 3.9	
		4.36 <sup>11</sup>	
12		4.4 4.2	9.0
13		4.9	
14		5.2 5.3	
15		5.9	
16		6.3	
17		6.7	
18		7.2	
19		7.5	
20		8.0	
23		8.5	
25		9.0	
26		9.5 9.7	
27		7	

See page 171

3

05

180

Mc Series 660

Sheet no 374

8.1

March 19, 1917

12	15	mc 10813	Pole						
		B	C	10813 p185	PC				
5					5.2	5.1	5.15 <sup>0.1</sup>	1.34	
6					5.5	5.8	5.65 <sup>1.2</sup>	1.46	
8					7.2	7.1	7.15 <sup>0.1</sup>	1.08	
9					8.0	7.8	7.90 <sup>1.1</sup>	0.93	
	3.3								
10	3.2			3.4	3.35 <sup>1.0</sup>	5.67	8.3	8.1	8.20 <sup>1.1</sup>
	3.6								
11	3.7	3.85 <sup>0.1</sup>	3.9	3.90	3.88 <sup>0.02</sup>	5.67	8.7	8.7	8.70 <sup>0.0</sup>
12	4.1	4.20 <sup>0.0</sup>	4.2	4.1	4.15 <sup>0.05</sup>	5.71	9.0	9.30	9.15 <sup>1.5 1.5</sup>
	4.2								
13			4.7	4.9	4.80 <sup>1.1</sup>	5.50		9.8	9.8 <sup>2.0</sup>
14			5.2	5.3	5.25 <sup>1.1</sup>	5.40			
15			5.8	5.9	5.85 <sup>0.1</sup>	5.23			
16			6.2	6.2	6.20 <sup>0.0</sup>	5.20			
17			6.5	6.5	6.50 <sup>0.0</sup>	5.13			
18			7.1	7.0	7.05 <sup>1.0</sup>	5.01			
19			7.4	7.3	7.35 <sup>0.1</sup>	5.07			
20			7.9	7.65	7.78 <sup>1.2 1.3</sup>	4.95			
23			8.3	8.3	8.30 <sup>0.0</sup>	5.04			
25			9.0	9.0	9.00 <sup>0.0</sup>	4.89			
26			9.7	9.5	9.60 <sup>1.1</sup>	4.73			
27			9.8	9.85	9.85 <sup>2.0</sup>	4.84			



Mc Series 660

Dev

March 19, 1917

alt. work +.18

Mc 10814 U X Here.		17.50 + 17.5					
Ref.	B	C	Ar	magn	PC	a	magn
1					5.5	1.37	6.87
2					6.3	1.21	7.51
3					7.1	1.06	8.16
4					7.5	1.00	8.50
5					8.3 <sup>8.20"</sup>	8.1	8.97
6	3.9 3.8	3.95 <sup>±0</sup>	4.0	5.67	9.62	9.2	6.71
7			4.3	5.60	9.90	9.5 <sup>9.60"</sup>	9.7
8			5.2	5.41	10.61	0.63	10.33
9			6.1	5.22	11.32		
10			7.1	5.06	12.16		
11			8.0	4.97	12.94		
12			8.4	4.93	13.33		
13			8.9	4.91	13.81		
14			9.8	4.85	14.63		
15			4.8				
16			9.8	4.85	14.63		

Jones

182

MC Series 660

Copied 9a: 174

Card

Det

March 19, 1917

+18

Act. corr. ~~1.07~~

MC 10814 cont U4 Here

Var.	Seq	a	Cu	Magn	57	$\alpha$ 1.33	magn
	b				7.5	0.99	8.49
	c				8.9 ?	0.76	9.66
	d	$\begin{matrix} 3.4 & 3.20^{11} \\ 3.3 & 3.2 \\ 3.20^{11} & 3.1 \\ 3.1 & 3.3 \end{matrix}$	5.80	9.10	8.1	0.90	9.00
	e	$\begin{matrix} 3.0 & 3.2 \\ 3.0 & 3.2 \end{matrix}$	5.82	9.02	8.2	0.87	9.07
	f		5.0	5.46	10.46		
	g		5.3	5.40	10.70		
	h		5.9	5.26	11.16		
	k		6.2	5.20	11.40		
	l		6.8	5.10	11.90		
	m		7.3	5.03	12.33		
	n		$\begin{matrix} 7.60^{11} \\ 7.5 \end{matrix}$	7.75.00	12.60		
	o		8.0	4.97	12.97		
	p		8.5	4.93	13.43		
	q		9.0	4.90	13.90		
	r		9.5	4.87	14.37		
	s		9.7	4.86	14.56		
	t		9.9	4.85	14.75		



Mc Series 660 Copied 8/10/169

8cV

March 19, 1917

Card

mc 10816 base 18 0 - 23.5 alt. wire - 48

	B	c	Ar	magn	PC	Ar	magn		
1					5.2	1.43	6.63		
2					5.6	1.34	6.94		
3					7.7	0.96	8.66		
4	<sup>0.3</sup> 3.2		5.80	9.10	<sup>8.00<sup>21</sup></sup> 7.9	8.1	0.90	8.90	
5	<sup>4.2</sup> 4.1	4.20 <sup>00</sup>	4.2	5.62 <sup>1</sup>	9.82	<sup>9.65<sup>21</sup></sup> 9.8	9.5	0.62	10.27
6			<sup>5.00<sup>21</sup></sup> 4.9	5.46	10.46				
7			5.3	5.39	10.69				
8			6.2	5.20	11.40				
9			<sup>6.60<sup>21</sup></sup> 6.5	6.514	11.74				
10			7.5	5.00	12.50				
11			7.9	4.98	12.88				
12			8.6	4.93	13.53				
13			9.0	4.90	13.90				
14			9.3	4.88	14.18				
15			9.5	4.87	14.37				

Images not circular - faint images elong. &amp; hazy

Copied BK 9a p77

mc Series 660

Card.

Dev

March 19, 1917

mc 10817 J. W. H. 18 00 + 15

all out +.17

	B	C	Ru	Magn	PC <sup>5.2021</sup>	En	Magn
a					5.1	5.3	1.43
b					6.1		1.26
b'					7.2		1.03
f2	2.9		5.86	8.86	7.5	7.3	1.00
c	B				5.7	5.5	1.35
d	3.3		5.78	9.18	8.0		0.90
e			3.8	5.70	9.50	8.4	0.84
f			3.8	5.70	9.50	8.5	0.83
g			5.3	5.40		10.70	
h			5.5	5.36		10.86	
k			6.3	5.19		11.49	
l			7.2	5.04		12.24	
m			7.5	5.01		12.51	
n			8.1	4.96		13.06	
o			8.5	4.92		13.52	
p			8.9	4.91		13.81	
q			9.3	4.88		14.18	
r			9.8	4.85		14.65	



Mc Series 660

Dev

March 19, 1917

Mc 10818 Pole

5	B	C	PC
			5.1
6			5.8
8			7.1
9			7.8
10	<sup>3.4</sup> 3.3		8.1
11	<sup>3.9</sup> 3.8	3.90 <sup>00</sup> 3.9	8.7
12		4.1	<sup>9.20<sup>21</sup></sup> 9.1 9.3
13		4.9	9.8
14		5.3	
15		5.9	
16		6.2	
17		6.5	
18		7.0	
19		7.3	
20		<sup>7.65<sup>26</sup></sup> 7.8 7.5	
23		8.3	
25		9.0	
26		9.5	
27		<sup>9.95<sup>01</sup></sup> 9.8 9.9	

See page 180

1 40

M.D. Series 119

Sheet no 381

18c7

April 13, 1917

10 - 25

M.D. 3790 Pole (1st half of this ser. meas in B 50)

	B	C			PC	IL		
		W.S.	4.7	3796 1912		7.5	7.3	7.40
5								-0.91
6		4.7	4.7	4.70 <sup>00</sup>	2.41	8.1	8.1	8.10 <sup>00</sup> -0.99
8		6.4	6.2	6.30 <sup>11</sup>	1.93	9.7	9.8	9.75 <sup>10</sup> -1.52
9		7.1	6.90	7.00 <sup>11</sup>	1.83	F		
10		7.3	7.3	7.30 <sup>00</sup>	1.72			
11		7.8	7.7	7.75 <sup>01</sup>	1.80			
12		8.0	8.1	8.05 <sup>01</sup>	1.81			
13		8.5	8.7	8.60 <sup>11</sup>	1.70			
14		8.8	9.0	8.90 <sup>11</sup>	1.75			
15		9.3	9.5	9.40 <sup>11</sup>	1.68			
16		9.7	9.8	9.75 <sup>10</sup>	1.65			
17		9.9	9.9	9.90 <sup>00</sup>	1.73			
18		ns						



MA Series 119

Sc Y

April 13, 1917

alt. count = 21

	MA 3791	263 V	28.15 + 25.7	
	B	C	Cu	magn
a	5.5	2.16	7.66	8.8
b	6.3	6.11	9.7	-1.47
c	5.8	2.07	7.87	9.3
d	6.5	6.19	8.60	9.8
e	6.9	1.85	8.95	7
f	8.3	8.5	1.74	10.14
g	8.1	8.0	1.76	9.81
h	9.1	8.9	1.70	10.70
k	9.3	1.70	11.00	
l	9.3	9.0	1.70	10.85
m	9.1	1.70	10.80	
n	9.3	9.5	1.70	11.10
omitted o				
p	9.8	1.69	11.49	

188

MA Series 119

Copied 1392:61

Sel

April 12, 1917

MA 3792 264 V

23 16 + 84

alt. corr. +.14

	c	en	magn	PC	c	magn
a	5.4	2.19	7.59	8.9	-1.77	7.63
b	5.1	2.29	7.39	8.7	-1.18	7.42
c	6.7	1.88	8.58	9.8	-1.50	8.30
d	6.5	1.92	8.42	9.8	-1.50	8.30
e	7.3	1.80	9.10			
f	6.3	1.95	8.25	9.8	-1.50	8.30
g	7.7	1.79	8.39			
h	7.1	1.84	8.84			
k	7.9	1.77	9.67			
l	7.7	1.79	9.49			
m	8.3	1.74	10.14			
n	8.9	1.70	10.60			
o	8.4	1.74	10.14			
p	9.7	1.69	11.19			
q	9.7	1.69	11.39			
r	9.7	1.69	11.39			
s	9.8	1.69	11.49			
t	9.9	1.69	11.59			
u						

marked in red ink	a	6.3	1.96	8.26	<sup>9.60<sup>11</sup></sup> 9.7	<sup>9.4</sup> 9.5	-1.84	8.16
	b	<sup>6.40<sup>11</sup></sup> 6.5	6.3	1.94	8.34	9.8	-1.50	<del>8.34</del> 8.30
	c	<sup>7.10<sup>11</sup></sup> 7.2	7.0	1.82	8.92			
	d	<sup>7.60<sup>11</sup></sup> 7.7	7.5	1.79	9.39			



MA Series 119

Sel

April 13, 1917

Rel. corr. +.13

	MA 3793	266 V	23	29 + 74
a	6.9	1.85	8.75	
b	7.5	7.3	1.80	9.20
c	7.5	1.79		9.29
d	7.8	1.78		9.58
e	8.2	1.74		9.94
f	8.5	8.7	1.73	10.33
g	8.7	8.9	1.70	10.50
h	9.2		1.70	10.90
k	9.7	9.8	1.69	11.44
l	7			

MC 567 Ser.

Cand.

Sc 1

February 27, 1917

alt. corr. = .05

MC 9550 (cont) Ref Seq

			Curve magn.	pc	Curve magn.
1			7.7	1.09	8.79
2			8.4	0.95	9.35
3	<sup>4.0</sup> 3.9	4.00° 4.0	5.52 9.52	8.7	0.89 9.59
4		4.0	5.52 9.52	8.9	0.85 9.75
5		4.3	5.50 9.80	9.5?	<sup>0.73</sup> 10.23? near other stars
6		4.9	5.44	10.34	
7		5.2	5.41	10.61	
8		<sup>5.9012</sup> 6.058	5.37	11.27	
9		6.3	5.35	11.65	
10		6.5	5.34	11.84	
11		6.5	5.34	11.84	
12		6.7	5.33	12.03	
13		6.7	5.33	12.03	
14		7.2	5.31	12.51	
15		7.5	5.30	12.80	
16		7.7	5.30	13.00	
17		8.1	5.29	13.39	
18		8.5	5.28	13.78	
19		8.7	5.27	13.97	
20		<sup>9.4021</sup> 9.3	9.5 5.22	14.62	
$\alpha$			5.1	1.52	6.62
$\beta$			7.9	1.05	8.95



mc Ser. 567

February 27, 1917

copied 9:10<sup>2</sup>

Card.

Cl. Seq. 8

mc 9551 nesc 2422

alt. corr. -.12

	B	C	Curve	magn.	PC	Curve	magn.	P	Curve	magn.
					7.3	1.16	8.46	26	8.3	5.28 13.58
1		5.5	5.39	10.89				27	8.7	5.27 13.97
5		3.8	5.54	9.34	9.0	0.82	9.82	28	n.s.	
1					3.9	.	.	29	n.s.	
2					dbl?	.	.	30	<del>9.3</del> <del>9.0</del>	
3					<sup>5.00<sup>11</sup></sup> 5.1 4.9	1.54	6.54			
4					4.9	.	.			
5					5.3	1.50	6.80			
6					6.2	1.35	7.55			
7					6.1	1.37	7.47			
8					6.7	1.27	7.97			
9					7.9	1.05	8.95			
10					8.7?	0.89	9.79?			
11					<sup>7.60<sup>11</sup></sup> 7.5 7.7	1.10	8.70			
12					9.0	0.82	9.82			
13		4.0	5.52	9.52	8.9	0.85	9.75			
14		4.3	5.50	9.80	9.3	0.77	10.07			
15		B	.	.	?	.	.			
16		3.9?	5.53	9.43?	<sup>5.60<sup>11</sup></sup> 8.5	0.90	9.50			
17		4.2	5.50	9.70	<sup>1</sup> 9.8	0.80	9.90			
18		5.2	5.41	10.61						
19		6.1	5.35	11.45						
20		6.3	5.35	11.65						
21		6.3	5.35	11.65						
22		7.1	5.32	12.42						
23		<sup>7.5</sup> <del>4.3</del>	5.30	12.80						
24		7.7	5.30	13.00						
25		8.1	5.29	13.39						

Reg. crowded  
PC's difficult =

over

M D Series 119

Dev

April 13, 1917

M D 3794 268 V R. U. Cass.

Red. corr. + .21

	<sup>C<sub>6.00</sub></sup> <sup>in</sup>	<sup>magn</sup>	<sup>pc</sup> <sup>8.60<sup>±1</sup></sup> <sup>in</sup>	<sup>magn</sup>
a	6.1	5.9 2.02	8.02	9.5 9.7 -1.44 8.16
B	6.1	5.9 2.02	8.02	9.5 9.7 -1.44 8.16
C	6.2	6.0 2.00	8.10	9.8 -1.50 <u>8.30</u>
D	6.8	1.87	8.67	
a	7.3	1.80	9.10	
b	8.0	1.77	9.76	
c	8.0	1.77	9.67	
d	8.0	1.77	9.67	
e	8.5	1.73	10.23	
f	8.5	1.73	10.23	
g	8.9	1.70	10.60	
h	9.2	1.70	10.90	
k	9.5	1.69	11.19	
h = l	9.7	1.69	<u>11.39</u>	
m	9.9	1.69	<u>11.59</u>	

This sequence superseded by sequence marked on Plate I 27834.

Stars a, b, c, d, and l are in the revised sequence, and the magnitudes for these five stars should be included in taking the final mean.



MA Series 119

Oct

April 13, 1917

MA 3795 U Pegasi 23 53 + 15.4

Alt. corr. + 17

	<sup>B</sup>	<sup>a</sup>	<sup>magn</sup>
a	63	1.96	8.26
a <sup>2</sup>	6.5	1.92	8.42
a <sup>3</sup>	7.5	1.80	9.30
b	7.6	1.79	9.39
c	8.0 <sup>7.90<sup>12</sup></sup>	7.8	1.77
c'	7.9	1.77	9.67
d	8.9	1.70	10.60
e	Scr.		
f	9.8	1.69	11.49
g	9.8	1.69	11.49

Ref.	1	6.8	1.86	8.66
	2	7.3	1.80	9.10
	3	7.7	1.79	9.49
	4	7.8	1.77	9.57
	5	8.9 <sup>8.80<sup>12</sup></sup>	8.7	1.71
	6	9.3 <sup>9.40<sup>12</sup></sup>	9.5	1.70
	7	9.5 <sup>9.60<sup>12</sup></sup>	9.7	1.69
	8	9.8	1.69	11.49

192

M D Series 119

Det

April 13, 1917

M D 3796

Bole

5		pc
		7.3
6	4.7	8.1
8	6.2	9.8
9	6.8 <sup>6.90 ± 1</sup> 7.0	7
10	7.3	
11	7.7	
12	8.1	
13	8.7	
14	9.0	
15	9.5	
16	9.8	
17	9.9	

11 55

See page 186

Light very poor.



MA Series 140

Sheet no 381

Oct

April 21, 1917

11	30	MA 4024	8.4	4029 P198	PC 9.00 <sup>11</sup>				
5					7.1	6.9	6.9	6.95 <sup>01</sup>	-0.46
6			4.1 3.9 4.00 <sup>11</sup>	3.11	7.7	7.8	7.7	7.72 <sup>01</sup>	-0.61
8			5.5 5.3 5.40 <sup>11</sup>	2.83	8.9	9.1	9.2	9.10 <sup>01</sup>	-0.57
9			6.3 6.3 6.30 <sup>00</sup>	2.53	9.8		9.8	9.80 <sup>00</sup>	-0.97
10			6.5 6.5 6.50 <sup>00</sup>	2.52	9.9	9.95 <sup>10</sup>		9.95 <sup>02</sup>	-0.93
11			7.3 7.3 7.30 <sup>00</sup>	2.25					
12			7.7 7.7 7.70 <sup>00</sup>	2.16					
13			8.1 8.0 8.05 <sup>10</sup>	2.25					
14			8.5 8.5 8.50 <sup>00</sup>	2.15					
15			8.7 8.8 8.75 <sup>10</sup>	2.33					
16			9.1 9.0 9.05 <sup>10</sup>	2.35					
17			9.40 <sup>11</sup> 9.5 9.3 9.40 <sup>00</sup>	2.23					
18			9.8 9.9? 9.85 <sup>01</sup>	2.21					
19			9.9 9.9 <sup>02</sup>	2.52					

M<sub>42</sub> Series 140

Scy

April 21, 1917

M <sub>42</sub> 4025		V bygni		20 38 + 47.8		alt low +22	
a	B <sub>2.2</sub> 2.1	c	magn	PC	m	magn	
b		4.9	2.97	7.87	8.5	8.7	-0.79
c		4.1	3.15	7.25	7.9		-0.65
d		4.7	3.03	7.73	9.1		-0.85
e		5.5	2.79	8.29	9.3	9.5	-0.90
f		5.4	2.83	8.23	8.8	9.0	-0.83
g		5.7	2.74	8.44	9.7		-0.94
h		6.5	2.46	9.06			
k		6.8	2.40	9.20			
l		7.3	2.30	9.60			
m		8.5	2.23	10.73			
n		8.7	2.24	10.94			
o		9.0	2.26	11.26			
p		9.5	2.33	11.83			
q		9.8	2.37	12.17			



MD Series 140

bcv

April 21, 1917

MD 4026		X Delphinus		20 50 + 17.3		alt corr. + 0.18	
		C <sub>6</sub> 20" C <sub>6</sub> magn pc		C <sub>6</sub> magn			
a	B	6.3	6.1, 2.57	8.77	9.8	-0.95	<u>8.85</u>
b		5.60	5.7 5.5 2.75	8.35	9.3	-0.88	8.42
c		6.30	6.2 6.4 2.55	8.85	9.8	-0.95	<u>8.85</u>
d		6.50	6.5 6.7 2.50	9.00			
e		7.70	7.7 7.7 2.25	9.95			
f		8.05	8.1 8.0 2.21	10.26			
g			8.9 2.25	11.15			
h		8.40	8.5 8.3 2.22	10.62			
k		9.20	9.1 9.3 2.28	11.48			
l			9.5 2.33	11.83			
m			9.8 2.37	<u>12.17</u>			

196

ScN

MD Series 140

April 21, 1917

MD 4027 RR Aquarii 21 10-3.3 alt. cm. +603						
a	b	c	PC	PC	magn	
		PC	magn	7.7	-0.60	7.10
b	5.4	2.80	8.20	9.1	-0.86	8.24
c	4.7	3.02	7.72	8.3	-0.73	7.57
d	5.7	2.73	8.43	9.3	-0.88	8.42
e	6.5	2.50	9.00			
f	6.3	2.56	8.86			
g	7.7	2.16	9.96			
h	8.2	2.21	10.41			
k	9.1	2.27	11.37			
l	9.7	2.36	12.06			
l'	9.5	2.33	11.83			
m		f				



MD Series 140

Sc V

April 21, 1917

MD 4028	V 2	Bygini	21	48	+ 42.5	alt. Cor. +0.23			
a	<sup>13.6</sup> 5.7	<sup>02.03</sup> 5.82	<sup>6.85</sup> 5.9	<sup>1.10</sup> 5.8	<sup>in Magn</sup> 2.68	8.50	9.3	-0.87	8.43
b			5.7	2.73		8.43	9.1	-0.85	8.25
c			6.8	2.40		9.20			
d			8.1	2.21		10.31			
e			6.9	2.37		9.27			
f			7.7	2.20		9.96			
g			8.3	2.21		10.51			
k	<del>h</del>		<sup>8.60</sup> 8.5	<sup>0.1</sup> 8.7	2.23	10.83			
h	x		<sup>7.95</sup> 8.0	<sup>0.1</sup> 7.9	2.22	10.17			
i			<sup>9.40</sup> 9.3	<sup>0.1</sup> 9.5	2.30	11.70			
m			9.7	2.36		12.06			

198

8cV

M D Series 140.

April 21, 1917

M D 4029 c

Bole

pc

5		6.9
6	3.9	7.7
8	5.3	9.2
9	6.3	9.8
10	6.5	
11	7.3	
12	7.7	
13	8.0	
14	8.5	
15	8.8	
16	9.0	
17	9.3 9.5	
18	9.7? ft.	

12 40

See page 193





200

Measures for position of additional faint  
stars in M5

D 4429

Dec 21, 1915

	x	y	A	B	C	D	A+C	B+D	C-A	B-D	x <sup>2</sup> +y <sup>2</sup>	<sup>Corr</sup> x <sup>2</sup> +y <sup>2</sup>	<sup>Corr</sup> C-A	<sup>Corr</sup> B-D	x+C-a
d'	7.8	23.6	25	130	190	84	215	214+165	+46	296.8	975.2	975.2	+63	+45	313.1
d2	23.9	17.5	15	95	200	119	215	214+185	-24	975.2	720.8	720.8	+183	-24	993.5
e'	7.8	21.5	20	101	195	113	215	214+175	-12	296.8	890.4	890.4	+173	-12	314.1
e'	4.6	15.6	66	150	150	65	216	215+84	+85	169.6	636.0	636.0	+83	+84	178.0
f1	13.8	19.7	29	<sup>0</sup> 168	185	<sup>4</sup> 52	214	214+156	+106	551.2	805.6	805.6	+154	+105	566.6
h1	11.9	17.1	10	<sup>5</sup> 12	205	200	215	215+195	-185	466.4	720.8	720.8	+193	-183	485.7

D4440

d'	7.8	23.6	25	135	190	80	215	215+165	+55	296.8	975.2	975.2	+63	+54	313.1
d2	23.9	17.5	15	110	200	105	215	215+185	+05	975.2	720.8	720.8	+183	+05	993.5
e'	4.6	15.6	65	149	150	65	215	214+85	+84	169.6	636.0	636.0	+84	+83	178.0
e2	7.8	21.5	19	105	195	110	214	215+176	-05	296.8	890.4	890.4	+174	-05	314.2
f1	13.7	19.7	29	170	185	44	214	214+156	+126	551.2	805.6	805.6	+154	+124	566.6
h1	11.9	17.2	09	20	204	199	213	219+195	-179	466.4	720.8	720.8	+192	-177	485.6



$y+(B-D)$	$V-540.2$	$y-536.1$
979.7	- 227.1	+ 443.6
718.4	+ 453.3	+ 182.3
889.2	- 226.1	+ 353.1
644.4	- 362.2	+ 108.3
816.1	+ 26.4	+ 280.0
702.5	- 54.5	+ 166.4

	$X-540.4$	$y-537.1$
980.6	- 227.3	+ 443.5
728.3		
<del>644.2</del>	+ 453.1	+ 184.2
644.3	- 362.4	+ 107.2
889.9	- 226.2	+ 352.8
818.0	+ 26.2	+ 280.9
703.1	- 54.8	+ 166.0

MA Series 140

Sheet no 386

Sc AA V

April 24, 1917

11	05	MA 4029	Bale						
		<sup>4035</sup> P 268							
5									
6		<sup>4.0000</sup> 4.0	<sup>4.05</sup> 4.05	<sup>4.02</sup> 4.02	<sup>3.09</sup> 3.09	<sup>7.5</sup> 7.5	<sup>7.5</sup> 7.5	<sup>7.85</sup> 7.85	<sup>7.68</sup> 7.68
8		5.3	5.60	5.45	2.78	9.3		9.60	9.45
9		6.2	6.60	6.40	2.42	9.9		9.9 <sup>a</sup>	-1.04
10		6.5	6.80	6.65	2.34				
11		7.2	7.40	7.30	2.25				
12		<sup>7.6011</sup> 7.5	7.7	7.7	7.65	2.21			
13		8.1	8.10	8.10	2.20				
14		8.5	8.50	8.50	2.15				
15		8.9	8.60	8.75	2.33				
16		9.1	9.10	9.10	2.30				
17		9.4	9.60	9.50	2.13				
18		<sup>9.9000</sup> 9.9	9.9	10.0	9.95	2.11			



MA Series 140

Sc V

April 24, 1917

MA 4030		B 64755		alt cor + 23	
1	B	6.0	5.9158	8.53	9.8
2		6.5	6.3	2.45	8.85
3		7.1	7.1	2.02	9.42
4		7.5	7.5	2.28	9.78
5		8.1	8.0	2.24	10.29
6		8.5	8.5	2.20	10.70
7		8.8	8.7	2.19	10.94
8		9.2	9.3	2.17	11.42
9		9.3	9.5	2.15	11.55
10		9.8	9.8	2.13	11.93
11		Z			

M<sub>A</sub> Series 140

Sev

April 24, 1917

	M <sub>A</sub> 403	9.12	4.773	PC	C	magn	alt cor +22
1	4.36 4.5	4.70 <sup>10 10</sup>	4.80 <sup>11</sup> 4.9 4.7 2.92	7.72	8.5 <sup>8.60±1</sup> 87	-0.87	7.73
2		5.00 <sup>11</sup>	5.1 4.9 2.87	7.87	8.9 <sup>8.95±0</sup> 90	-0.96	7.99
3		6.50 <sup>11</sup>	6.5 6.5 2.43	8.93			
4		6.85 <sup>12</sup>	6.7 7.0 2.35	9.20			
5		7.35 <sup>21</sup>	7.2 7.5 2.29	7.64			
6		7.60 <sup>11</sup>	7.5 7.7 2.27	9.87			
7		8.60 <sup>11</sup>	8.7 8.5 2.20	10.80			
8		8.60 <sup>11</sup>	8.7 8.5 2.20	10.80			
9		8.95 <sup>01</sup>	9.0 8.9 2.17	11.12			
10		9.30 <sup>00</sup>	9.3 9.3 2.15	11.45			
11		9.85 <sup>01</sup>	9.8 9.9 2.12	11.97			
12			7				



MD Series 140

Dev

April 24, 1917

MD 4032

R. S. Sargent

alt cor +.23

		6.00 <sup>0.11</sup>	6.15	6.57	8.57	9.5	9.5	-1.07	8.43
a	B								
b		6.60 <sup>0.11</sup>	6.7	2.40	9.00				
c		6.7		2.37	9.07				
d		7.05 <sup>0.11</sup>	7.0	7.12	9.36				
e		7.1		2.31	9.41				
f		7.60 <sup>0.11</sup>	7.7	7.5	2.27	9.87			
f'		7.80 <sup>0.11</sup>	7.7	7.9	2.25	10.05			
g		8.25 <sup>0.11</sup>	8.8	8.7	2.19	10.94			
h		8.40 <sup>0.11</sup>	8.5	8.3	2.20	10.60			
k		8.70 <sup>0.11</sup>	8.7	8.7	2.19	10.89			
k'		9.40 <sup>0.11</sup>	9.3	9.5	2.14	11.54			
l		9.70 <sup>0.11</sup>	9.7	9.7	2.13	11.83			
m			9.8		2.12	11.92			
n			7						

Scv

MB Series 140

April 24, 1917

MB 4033 S.W. Cass

alt con + 21

a	<sup>6.35<sup>0.1</sup></sup> 6.4 6.3 2.45 8.80 9.8 <sup>pc 9.8000</sup> 9.8 -1.12 <u>8.68</u>
b	<sup>6.80<sup>1.1</sup></sup> 6.7 6.9 2.36 9.16
c	8.2 2.22 10.42
d	7.5 2.27 9.77
e	8.7 2.19 10.89
f	f

Ref-

1	<sup>6.10<sup>1.1</sup></sup> 6.2 6.0 2.53 8.63
2	<sup>6.85<sup>1.0</sup></sup> 6.9 6.8 2.35 9.20
3	<sup>7.60<sup>1.1</sup></sup> 7.7 7.5 2.27 9.87
4	<sup>7.50<sup>0.0</sup></sup> 7.5 7.5 2.27 9.77
5	<sup>8.10<sup>0.0</sup></sup> 8.1 8.1 2.23 10.33
6	<sup>8.75<sup>0.1</sup></sup> 8.8 8.7 2.19 10.94
7	<sup>9.60<sup>1.1</sup></sup> 9.5 9.7 2.15 11.75
8	f



Dev

M<sub>4</sub> Series 140

April 24, 1917

M<sub>4</sub> 4034

J. B. Gagli

alt. con + 14

	pc	mag	pc	mag	
a	5.1	2.84	7.94	8.7	<sup>-0.89</sup> near def. 7.81
b	4.7	2.96	7.66	8.1	<sup>8.20<sup>±1</sup></sup> 8.3 -0.78 7.42
c	6.3	2.47	8.77	9.8	<sup>9.80<sup>±1</sup></sup> 9.8 -1.12 8.68
d	5.5	2.72	8.22	9.5	-1.06 8.44
e	6.9	2.34	9.24		
f	6.1	2.55	8.65	9.5	<sup>9.60<sup>±1</sup></sup> 9.7 -1.07 8.53
g	7.5	2.27	9.77		
h	6.7	<sup>6.60<sup>±1</sup></sup> 6.5	2.40	9.00	
k	7.5	2.27	9.77		
l	7.5	<sup>7.40<sup>±1</sup></sup> 7.3	2.28	9.68	
m	8.2	2.22	10.42		
n	8.5	2.20	10.70		
o	8.1	2.23	10.33		
p	9.0	2.17	11.17		
q	9.1	<sup>9.05<sup>±1</sup></sup> 9.0	2.17	11.22	
r	9.5	<sup>9.60<sup>±1</sup></sup> 9.7	2.14	11.74	
s	9.8	2.13	11.93		

Marked  
in red  
ink on  
4034

a	<sup>5.30<sup>±1</sup></sup> 5.3	2.77	8.07	<sup>9.30<sup>±1</sup></sup> 9.3	9.3	-1.03	8.27
b	5.5	2.72	8.22	<sup>9.50<sup>±1</sup></sup> 9.5	9.5	-1.06	8.44
c	<sup>6.60<sup>±1</sup></sup> 6.5	6.7	2.40	9.00	<sup>9.75<sup>±1</sup></sup> 9.8	9.7	-1.10 8.65
d	7.3	2.30	9.60				

208

M<sup>100</sup> Series 140

Sev

April 24, 1917

M<sup>100</sup> 4035 Sole.

5		pc 7.05 <sup>01</sup> 7.0 7.1
6	4.05 <sup>10</sup> 4.1 4.0	7.85 <sup>10</sup> 7.7 7.8
8	5.60 <sup>11</sup> 5.5 5.7	9.60 <sup>11</sup> 9.5 9.7
9	6.60 <sup>11</sup> 6.5 6.7	7
10	6.80 <sup>11</sup> 6.7 6.7	
11	7.40 <sup>11</sup> 7.3 7.5	
12	7.7 8.10 <sup>00</sup>	
13	8.1 8.1 8.50 <sup>00</sup>	
14	8.5 8.5 8.60 <sup>11</sup>	
15	8.5 8.7 9.10 <sup>00</sup>	
16	9.1 9.1 9.60 <sup>11</sup>	
17	9.5 9.7	
18	10.0	

12 50 Ser page 202



Mc Series 766 Sheet no 388

ScV

April 25, 1917

11	35	Mc 12510							
5	B	C	12515 p213			PC 4.75 <sup>10</sup>	1312		
6						4.7 4.8 4.50 4.62	1.87		
8						5.4 5.35 <sup>01</sup> 5.3 5.32	1.79		
9						6.9 6.90 <sup>00</sup> 6.7 6.80	1.43		
10	3.0					7.6 7.65 <sup>01</sup> 7.5 7.58	1.25		
11	2.9		2.7 2.85 <sup>21</sup>	6.17	7.9 7.90 <sup>00</sup> 7.9 7.95	7.92	1.10		
12	3.3		3.2 3.25 <sup>10</sup>	6.30	8.6 8.45 <sup>21</sup> 8.3 8.38	8.38	1.17		
13	3.7	3.86 <sup>11</sup>	3.9 3.6 3.70 <sup>1010</sup>	6.16	9.0 9.0 9.00 <sup>00</sup>	0.86			
14			4.1 4.00 4.05 <sup>10</sup>	6.25	9.5 poor in 9.60 9.55	0.75			
15			4.4 4.3 4.35 <sup>01</sup>	6.30	9.9 9.8 9.85 <sup>10</sup>	0.80			
16			5.0 4.9 4.95 <sup>01</sup>	6.13					
17			5.3 5.3 5.30 <sup>00</sup>	6.10					
18			5.5 5.7 5.60 <sup>11</sup>	6.03					
19			6.1 6.2 6.15 <sup>10</sup>	5.91					
20			6.5 6.7 6.60 <sup>11</sup>	5.82					
21			7.0 7.1 7.05 <sup>01</sup>	5.68					
22			7.7 7.6 7.75 <sup>10</sup>	5.59					
23			8.1 8.10 <sup>01</sup>	5.77					
24			8.7 8.8 8.75 <sup>10</sup>	5.58					
25			9.1 9.25 9.18 <sup>007</sup>	5.51					
26			9.5 9.8 9.65 <sup>12</sup>	5.46					
27			9.9 9.9 <sup>00</sup>	5.76					

210

Mc Series 766

ScV

April 25, 1917

Mc 12511 base 10 0 + 5.0 - Quality B  
 Mc 12512 Sm Ref. 10 20 + 2.5 alt con + 6.20

1			pc 6.30 <sup>11</sup> 6.4 6.2
2			6.6 6.5
3			7.30 <sup>11</sup> 7.3 7.3
4	2.8 2.70 <sup>11</sup> 2.6 2.5		8.3 8.5
5	3.4 3.3		9.20 <sup>11</sup> 9.3 9.1
6	3.6 3.7	3.9	9.8
7		4.9	
8		5.2	
9		6.1	
10		6.1	
11		6.3	
12		6.7	
13		7.00 <sup>11</sup> 7.1 6.9	
14		7.3	
15		7.60 <sup>11</sup> 7.5 7.7	
16		7.9	
17		8.1	
18		8.5	
19		8.95 <sup>10</sup> 8.9 9.0	
20		9.65 <sup>12</sup> 9.5 9.8	

Sc's poor



MC Series 766

ScV

April 25, 1917

MC 12513				D7m Rel.		10 20 + 10		alt con + 0.14	
				PC	magn	PC	magn		
7	3.2 3.2 3.1 3.1	3.20%		6.24	9.44	8.7 8.7	0.98	9.68	
2	3.4 3.6 3.3 3.5	3.50		6.23	9.73	8.95 8.9	0.93	9.88	
3	3.6 3.5			6.22	9.82	9.1 9.0	0.90	9.95	
4	4.2 4.1	4.25	4.3	6.20	10.45	10.0 9.7	0.74	<u>10.74</u>	
5			4.7	6.14	10.84				
6			5.1	6.08	11.18				
7			5.7	5.97	11.67				
8			5.9	5.94	11.84				
9			6.3	5.87	12.17				
10			6.3	5.87	12.17				
11			6.7	5.77	12.47				
12			7.3	5.66	12.96				
13			7.5	5.63	13.13				
14			7.6	5.62	13.22				
15			7.8	5.60	13.40				
16			8.1	5.58	13.68				
17			8.5	5.56	14.06				
18			8.7	5.55	14.25				
19			9.0	5.55	14.55				
20			9.3	5.57	14.97				

MC Series 766

Scv

April 25, 1917

MC 12514		DM Ref		pc 40 ± 20		alt cor + 0.19	
	c	pc	magn	pc	magn		
1	13	6.1	6.0	1.59	7.64		
2		8.0	7.9	1.15	9.10		
3	<sup>2.9</sup> 2.8	6.23	9.13	<sup>8.35 ± 1</sup> 8.2	8.5	1.07	9.42
4	<sup>4.0</sup> 3.9 4.00 <sup>00</sup>	4.0 6.20	10.20	<sup>9.60 ± 1</sup> 9.5	9.7	0.81	10.41
5		4.3 6.18	10.48	<del>9.9</del>	0.75		<u>10.65</u>
6		4.7 6.14	10.84				
7		4.9 6.10	11.00				
8		5.3 6.05	11.35				
9		5.7 5.96	11.66				
10		5.9 5.94	11.84				
11		6.1 5.90	12.00				
12		6.5 5.81	12.31				
13		6.9 5.74	12.64				
14		7.1 5.69	12.79				
15		7.3 5.66	12.96				
16		7.3 5.66	12.96				
17		7.8 5.60	13.40				
18		<sup>9.15 ± 1</sup> 8.2 8.15	5.59 13.72				
19		<sup>8.40 ± 1</sup> 8.3 8.5	5.56 13.96				
20		<sup>8.90 ± 1</sup> 8.9 8.9	5.55 14.45				
21		<sup>5.62</sup> 9.8	15.42				



Mc Series 766

Scy

April 25, 1917

Mc 12515 c			Bob	
5	B			PC $4.50 \pm 1$ 4.4 4.6
6				5.3
8				6.7
9				7.5
10	2.7 2.6			$7.95 \pm 0.1$ 8.0 7.9
11	3.2 3.1			8.3
12	3.6 3.5			9.0
13	4.0 3.9	4.00 <sup>00</sup>	4.0	$9.60 \pm 1$ 9.5 9.7 corr.
14			4.3	9.8
15			4.9	
16			5.3	
17			5.7	
18			6.2	
19			6.7	
20			7.1	
23			7.8	
25			7	def film?
26			8.8	
27			$9.25 \pm 0.1$ 9.2 9.3	
28			9.8	
29			7	

12 50 See page 209

Mc Series 766

Sheet no 388

Dev

April 28, 1917

11 10

Mc 12515

Bole

5				12521 40220		PC 4.70 <sup>12</sup> 48	4.6	4.80	4.75 <sup>05 05</sup>	1.74
6						5.3	5.35	5.32 <sup>02 02</sup>		1.79
8						6.8	6.90	6.85 <sup>05 05</sup>		1.88
9						7.5	7.35	7.42 <sup>08 07</sup>		1.41
10	2.6 2.5			2.7	2.65 <sup>01</sup>	6.37	7.9	7.60	7.75 <sup>15 15</sup>	1.87 <sup>21</sup>
11	3.2 3.1			3.3	3.25 <sup>01</sup>	6.30	8.5	8.40	8.45 <sup>05 05</sup>	1.10
12	3.6 3.5			3.7	3.65 <sup>01</sup>	6.21	9.1	8.80	8.95 <sup>15 15</sup>	0.91
13	4.0 3.9	4.05 <sup>01</sup>	4.1	4.00	4.02 <sup>02 02</sup>	6.28	9.7	9.1	9.40 <sup>03</sup>	0.90
14	4.4 4.3	4.40 <sup>00</sup>	4.4	4.3	4.35 <sup>05 05</sup>	6.30	9.9		9.9 <sup>02</sup>	0.75
15				4.9	4.9	4.90 <sup>00</sup>	6.18			
16				5.3	5.5	5.40 <sup>11</sup>	6.00			
17				5.5	5.7	5.60 <sup>11</sup>	6.03			
18				6.1	6.2	6.15 <sup>10</sup>	5.91			
19				6.5	6.5	6.50 <sup>00</sup>	5.91			
20				7.0	6.9	6.95 <sup>01</sup>	5.78			
23				7.7	7.60	7.65 <sup>05 05</sup>	5.69			
25				7.7	8.1	8.1 <sup>09</sup>	5.77			
26				9.0	8.80	8.90 <sup>10 12</sup>	5.43 <sup>12</sup>			
27				9.5	9.3	9.40 <sup>11</sup>	5.29			
28				9.9	9.6	9.85 <sup>10</sup>	5.26			
29				7						



Mc Series 766

8c4

April 28, 1917

Mc 12516

Dm Rif

11 0 + 50

alt corr +0.11

	B	C	Cu	Magn	pc 700L	pc	magn
1	3.3				6.9	7.1	8.38
2	3.2		6.30	9.60	8.9	0.97	9.87
3	3.7	3.80 <sup>10.10</sup>	3.90 <sup>11</sup>	40.38 6.26	10.06	9.2	0.90
3a	3.9	3.90 <sup>00.00</sup>	3.90 <sup>00.00</sup>	39.39 6.25	10.15	9.2	0.90
3b	3.8		5.0 <sup>4.95</sup>	4.9 6.10	11.05		
4			4.5 <sup>4.55</sup>	4.7 6.17	10.72		
4a			5.2	6.05	11.25		
5			5.5	6.00	11.50		
6			5.9	5.94	11.84		
7			6.1	5.92	12.02		
8			6.5	5.86	12.36		
8a			7.0	5.76	12.76		
9			7.5	5.66	13.16		
10			7.8	5.60	13.40		
11			8.3	5.49	13.89		
12			8.7	5.45	14.15		
13			9.0	5.40	14.35		
14			9.3	5.34	14.64		
15			9.8	5.25	15.05		

MC Series 766

Dev

April 28, 1917

MC 12517		Sun Ref. 11 0 + 75		alt cor + 0.14	
		pc	mag	pc	mag
1	13	5.9	5.90	5.9	1.62
2		6.9	6.80	6.7	1.43
3		7.1	7.20	7.3	1.33
4	3.2 3.1	6.30	9.50	8.1	8.10
5	3.7 3.6	3.85	3.9	6.26	10.06
6	4.0 3.9	4.05	4.1	6.23	10.28
7		4.4	6.19	10.59	9.8
8		4.9	6.11	11.01	
9		5.9	5.93	11.83	
10		6.1	5.91	12.01	
11		6.1	5.91	12.01	
12		6.9	5.77	12.67	
13		6.9	5.77	12.67	
14		7.1	5.73	12.83	
15		7.4	5.67	12.07	
16		7.7	5.63	13.33	
17		7.9	5.58	13.48	
18		8.3	8.35	13.81	
19		8.5	8.75	14.06	
20		9.0	8.95	14.35	
21		9.7	9.7	14.97	



MC Series 766

Sc V

April 28, 1917

alt cor +0.17

		MC 12518		b b 11 + 15		pc		Cu		magn		alt cor +0.17		Cu magn	
		B		C		4.9		1.76		6.66		29a		8.00 <sup>11</sup> 5.57 13.57	
near edge	1											29		7.7 5.62 13.32	
off Plate	2											30		8.0 5.57 13.57	
	3					5.7		1.66		7.36		30a		9.0 5.39 14.39	
	4					5.9		1.64		7.54		31		9.1 5.37 14.47	
near edge	5					6.1		1.58		7.68		32		8.80 <sup>11</sup> 5.43 14.23	
	6					6.7		1.45		8.15		26a		6.7 <sup>6.60<sup>11</sup></sup> 5.83 12.43	
	7					7.8		1.30		8.60		26b		7.1 <sup>7.20<sup>11</sup></sup> 5.71 12.91	
	8					6.9		1.40		8.30		26c		7.2 <sup>7.35<sup>21</sup></sup> 5.67 13.02	
	9					7.3		7.5		8.30		33		9.5 <sup>9.60<sup>11</sup></sup> 5.30 14.90	
	10					7.3		7.1		1.34		34		F	
	10a					7.5		7.7		1.24					
	11					7.9		7.5		1.18					
	12					8.1		1.15		9.25					
	13					8.6		1.10		9.63					
	14	3.4		6.29		9.69		9.0		0.95				9.9 5	
	14a	3.3		6.25		10.15		7.8		0.80				10.6 2	
	15	3.2		6.30		9.60		7.0		0.39				9.9 5	
	16	3.9		6.25		10.20		9.8		0.80				10.6 0	
	17	3.8		4.0		6.25		10.20		9.8				10.6 0	
	18	3.95 <sup>10</sup>		4.0		6.25		10.20		9.8				10.6 0	
	19	4.15 <sup>21</sup>		4.0		6.22		10.37		9.8				10.6 7	
	20	4.80 <sup>11</sup>		4.7		6.13		10.93		9.9				10.6 7	
	21	4.75 <sup>01</sup>		4.7		6.14		10.89		9.9				10.6 7	
	22			4.7		6.16		10.86							
	23			5.1		6.07		11.17							
	24			5.4		6.02		11.42							
	25			5.7		5.96		11.66							
	26			6.3		5.88		12.18							
	27			6.5		5.85		12.35							
	28			6.9		5.77		12.67							
	29			7.3		5.68		12.98							
	30			7.8		5.60		13.40							

Images rather poor.

218

MC Series 766

Oct

April 28, 1917

	mc 12519	Ref	11	40 + 10.0	alt cor + 0.14
1	18	Cu	Magn	5.3 1.73	7.03
2	<sup>2.5</sup> 2.4	6.35	8.85	7.5 1.26	8.76
3	<sup>3.2</sup> 3.1	6.30	9.50	8.9 0.96	9.86
4	<sup>4.0</sup> 3.9	<sup>2.62</sup> 3.98	<sup>3.95</sup> 6.25	10.23	9.3 0.90
5		4.8	6.13	10.93	9.8 0.80
6		5.7	5.97	11.67	
7		6.2	5.90	12.10	
8		6.9	5.77	12.67	
9		<sup>7.90</sup> 8.0	7.8	5.58	13.48
10		<sup>8.20</sup> 8.3	8.1	5.52	13.72
11		8.3	5.51	13.81	
12		8.9	5.41	14.31	
13		9.5	5.30	14.80	
14		9.7	5.26	14.96	
15		9.8	5.25	15.05	
16					
17					
18					

Images for large - large

Mar 11, 1921 L.H.



Mc Series 766

April 28, 1917

Mc 18520 Dm Ref 12 0 + 40 alt cor + a2<sup>3</sup>

1	B	C	cu	magn	pc	cu	magn
1					5.9	1.62	7.52
2					6.1	1.57	7.67
3					7.8	1.21	9.01
4	3.4 3.3		6.28	9.68	8.9 9.40 <sup>11</sup>	0.96	9.86
5	4.1 4.0	4.10 <sup>00</sup>	6.23	10.33	9.5 9.3	0.88	10.28
6		4.9	6.11	11.01	9.7? def. near	0.77	<u>10.672</u>
7		5.0	6.08	11.08			
8		5.3	6.03	11.33			
9		5.8	5.95	11.75			
10		6.20 <sup>11</sup> 6.3 6.1	5.89	12.09			
11		6.40 <sup>11</sup> 6.5 6.3	5.86	12.26			
12		6.5	5.84	12.34			
13		6.95 <sup>01</sup> 7.0 6.9	5.76	12.76			
14		7.5	5.65	13.15			
15		7.7	5.62	13.32			
16		7.9	5.57	13.47			
17		8.1	5.54	13.64			
18		9.40 <sup>11</sup> 8.3 8.5	5.49	13.89			
19		9.1	5.36	14.46			
20		9.3? poor in	5.34	14.642			

Red Mar 11-1921 L.H.

220

Mc Series 766

SeV

April 28, 1917

M 12521 Bole

5	B	c	PC 4.80 <sup>11</sup> 4.9 4.7
6			5.4 <sup>5.35<sup>01</sup></sup> 5.3
8			6.9 <sup>6.90<sup>00</sup></sup> 6.9
9			7.4 <sup>7.35<sup>01</sup></sup> 7.3
10	2.7 2.6		7.7 <sup>7.60<sup>11</sup></sup> 7.5
11	3.3 3.2		8.5 <sup>8.40<sup>11</sup></sup> 8.3
12	3.7 3.6		8.9 <sup>8.80<sup>11</sup></sup> 8.7
13	4.6 3.9	4.00° 40	9.1
14		4.3	tp
15		4.9	
16		5.5	
17		5.7	
18		6.2	
19		6.5	
20		6.9	
23		7.60 <sup>11</sup> 7.5 7.7	
25		8.1	
26		8.50 <sup>11</sup> 8.7 8.9	
27		9.3	
28		9.8	
29			

1 10 Sup page 214



















1915phae.proj.1000L