

KG
11366
068

Observing Book. 15

M.E. O'Reilly.

KG11366.068

Observing Book.

M. E. Oriley

June 19 15 —

N.B. Although measured in this book, and in all of my books
have been recorded in order of brightness, they were measured
as irregularly as possible, to obtain independent measures.

M.O.R. Feb. 1916-

KG 11366.068



Monday June 28, 1915

Scale R

Series 418

mc 1421				mc 1426			
g		h		g		h	
sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2
7.6	7.55	7.5		7.7	7.6	7.6	
5 7.3	7.55	7.2		7.4	7.5	7.5	7.65 10 10 - 1.16
6 8.3	8.50	8.4		8.7	8.6	8.3	8.58 08 07 - 1.47
8 9.5	9.50	9.5		9.6	9.60	9.6	9.55 05 05 - 1.32
9 10.3	10.40	10.5		10.2	10.25	10.3	10.32 08 07 - 1.49
10 10.5	10.60	10.7		10.5	10.50	10.5	10.55 05 05 - 1.53
11 11.5	11.45	11.4		11.4	11.45	11.5	11.45 00 00 - 1.90
12 11.6	11.65	11.7		11.8	11.75	11.7	11.70 05 05 - 1.84
13 12.4	12.30	12.2		12.2	12.20	12.2	12.25 05 05 - 1.95
14 12.5	12.55	12.6		12.6	12.55	12.5	12.55 00 00 - 1.90
15 13.3	13.05	12.8		12.6	12.70	12.8	12.85 17 18 - 1.80
16 13.4	13.35	13.3		13.1	13.20	13.3	13.25 07 08 - 1.88
17 13.6	13.55	13.5		13.4	13.45	13.5	13.50 05 05 - 1.87
18 14.0	13.95	13.9		+		+	13.95 05 05 - 1.89
19 n.s.		n.s.		n.s.		n.s.	
20							
23							
25							

bl. P.B.

Monday June 28, 1915

Cand.

Scale R

Series 418

looped.

Mc 7422

J Aurigae 5 20 + 30°

P.C.

Cm. Magn *alt +21*

sc.1 sc.2 sc.3

sc.1 sc.2

off pl.

a

b

" "

c

d

e

not to be meas.

f

" " "

f'

g

g'

" "

h

k

k'

l

l'

Error in marking

Cause: confusion.

m

n

o

p

q

r

s

t

u

v

w

x

y

z

aa

ab

ac

ad

ae

af

ag

Cm.

Magn

9.8
10.6
9.6 w.c.
11.2
9.7
9.5

11.4

10.5

11.6

t.p.

12.1

t.p.

t.p.

t.p.

14.0

n-s

n-s

n-s

n-s

n-s

n-s

8.40 0 0

1.56 996 - 1.44 6.96

8.5 8.50 0 0

1.55 1005 - 1.45 7.05

8.6 8.9 8.90 0 0

1.44 1034 - 1.56 7.34

9.8

2.33 1203 - 1.77 8.03

10.6

2.10 1270 - 1.90 8.70

9.6 w.c.

2.35 1195 - 1.74 7.96

11.2

2.04 1344 - 1.96 9.44

9.7

2.12 1262 - 1.88 8.62

9.5

2.03 1363 - 1.97 9.63

10.5

2.12 1262 - 1.88 8.62

11.6

2.03 1363 - 1.97 9.63

t.p.

2.12 1262 - 1.88 8.62

12.1

2.03 1363 - 1.97 9.63

t.p.

2.12 1262 - 1.88 8.62

t.p.

2.12 1262 - 1.88 8.62

14.0

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

n-s

2.12 1262 - 1.88 8.62

beh. F.C.

Monday June 28, 1915.

Scale R

Series 418

mc 1422

Saurique

		Cm Magn	
W	11.3	1.90	13.20
V	11.5 +2.5	1.87	13.37
Y	11.8	1.82	13.62
Z	12.3	1.83	14.13
X	13.1	1.90	15.00
B	n.s.	.	.
γ	def.	.	.
δ	13.9	2.31	16.21
ε	n.s.	.	.

Ch. F.C.

10

Monday June 28, 1915

Scale R

Series 418

kopied.

mc 1422

3 images. Diff. Images.

alt. 21

g		h			
sc.1	sc.2	sc.1	sc.2		
ab	3	3		.	
d	3	3		.	
e	3	3		.	
not to be meas				.	
f				.	
g				.	
g'	7.7			.	
g'h	7.4			.	
g'h	7.6	7.5	1.0	8.0	-1.26 6.44
h				1.1	-1.26 6.69
h					
h	t.h.	t.h.			
h'	8.5	8.5	0.0	8.8	-1.34 7.46
l elong.					
l'	10.3	10.2	5.10		-1.57 8.68
m	8.9	8.9	2.0	9.0	-1.36 7.59
m	10.8	10.7	1.5		-1.68 9.05
o	10.1	def.			-1.65 9.05
p	11.3	11.3	2.0		-1.74 6
q	11.9	12.0	1.1		-1.84 9.51
r	12.4	12.4	5.01		-1.82 10.18
s	12.1	12.5			-1.85 10.60
t	12.1	t.h.			-1.86 10.84
u	13.1	13.1	10.00		-1.86 11.24
v	t.h.	13.2			1.87 11.33
w	±	±			

Monday June 28, 1915

Cand.

Scale R

Series 418

Mo 7422 cont. J Aurigae -

					Differ. Inm.				O.C. alt. 421	
sc.1	sc.2	sc.3	Cm.	Magn	sc.1	sc.2	Cm.	Magn	sc.2	Cm. Magn
1 B.					9.05	9.1			8.8	-1.52 7.28
					9.0	9.1	-1.37	7.68		-1.34 7.46
2 B.					10.10	10.1			10.2	-1.88 8.37
					10.1	10.1	-1.53	8.57		-1.56 8.64
3 5.6					10.65	10.5			11.1	-1.94 9.16
5.3			3.40	9.00	10.8	10.5	-1.64	9.01		-1.71 9.39
6.5					11.95				11.8	-1.99 9.81
4 6.2 B.			3.18	9.68	11.8	12.1	-1.81	10.14		-1.81 9.99
8.5					13.10					
5 8.2	8.4	8.45	1.0	2.66	11.11	13.1	-1.86	11.84	13.8	-1.89 11.91
8.8					13.45	13.4				
6 8.5	9.1	8.95	2.1	2.51	11.46	13.5	-1.88	11.57		
					13.90	13.9				
7 9.5			2.34	11.84	13.9		-1.89	12.01		
8 10.3			2.13	12.43						
9 11.1			1.94	13.04						
10 11.4			1.89	13.29						
11 11.7	11.8	11.75	1.0	1.83						
12 11.9	11.8	11.85	1.0	1.81						
13 12.5	12.4	12.45	1.0	1.84						
14 13.2	13.1	13.15	0.1	1.91						
15 13.4	13.1	13.25	2.1	1.94						

Monday June 28, 1915

Cand.

Scale R

Series 418

hospital.

mc 7423			Cable		6 + 645		Diff.		alt. +19		P.C.		
sc. 1	sc. 2	sc. 3					g	h			sc. 2	Cu.	Magn
1	Q						9.2	t.p.	-139	7.81	9.2	-1.64	7.56
2	Q						10.6	10.1	-164	9.01	10.1	-1.90	8.80
3	6.5		309		9.89		11.5	11.5	-178	9.72	12.1	-2.01	10.09
4	1.1		2.74		10.34		11.8	12.1	-181	10.14	12.3	-2.01	10.29
5	1.4		2.88		10.58		12.1	12.2	-182	10.33	12.5	-2.02	10.48
6	1.6	1.1	7.80	1.1	10.64		12.4	12.5	-184	10.61	12.6	-2.02	10.58
7	8.3	8.5	8.55	0.1	11.18		13.1	12.8	-186	11.09	13.3	-2.03	11.27
8	8.4	8.5	8.60	1.1	11.21		13.1	13.1	-186	11.84	13.4	-2.03	11.37
9	9.5		2.34		11.84		13.5	13.6	-188	11.67	3.		
10	10.8		2.20		12.20		t.p.	t.p.					
11	10.2		2.15		12.35		12.9	13.8	-189	11.96			
12	10.2		2.15		12.35		13.9		-189	12.01			
13	10.3		2.13		12.43								
14	10.5		2.08		12.58								
15	10.6		2.06		12.66								
16	11.2	10.8	11.00	1.97	13.97								
17	11.5	11.6	11.55	1.86	13.41								
18	12.2	12.2	12.20	1.82	14.02								
19	12.6	12.5	12.55	1.84	14.39								
20	13.5	13.5	13.50	2.05	15.55								

Bl. P.C.

Rememo. by O. May 4, 16.

19 12.3

20 13.3

Monday June 28, 1915

Cand.

Scale R

Series 418

Copied.

me 1424

Cante

6 + 46.5

Diff. In. att. +22 PC.

SC.1	SC.2	SC.2	Cu.	Magn	SC.2	SC.2	Cu.	SC.1	SC.2	Cu.	Magn
1 B.								80			
								77			
2 B.											
3 B.											
4 5.5			3.43	893	106	106	164	896	10.8	192	888
5 7.2			3.00	10.20	11.7	11.7	180	990	11.8	199	981
6 6.9			3.08	993	11.6	11.7	180	985	11.8	199	981
7 7.4	B.		2.95	10.35	12.2	12.2	183	1037	12.4	201	1039
8 8.1	8.1	8.25	2.71	10.96	12.6	12.8	185	1085	13.1	203	1107
9 8.2	8.4	8.45	2.66	11.81	12.6	12.8	185	1085	13.1	203	1107
10 9.5			2.34	11.84	13.5	13.5	188	1162	13.8		
11 10.1			2.18	12.28	13.9	13.9	189	1201	ms.		
12 10.4			2.10	12.50	1	1					
13 10.4			2.10	12.50							
14 10.9			2.00	12.90							
15 11.1			1.95	13.05							
16 11.2	11.2	11.20	1.92	13.12							
17 12.2	12.1	12.15	1.82	13.97							
18 12.6	12.6	12.60	1.85	14.45							
19 12.9	13.1	13.00	1.89	14.89							
20 13.5	13.5	13.50	2.05	15.55							

Ch. P.C.

14

Monday June 28, 1915

Cards.

Scale R

Series 418

Copied.

mc 7425			Carte	L + 31.5		Differ. In. att. + 21		3c.			
sc.1	sc.2	sc.3	Cu.	Magn	g	h	Cu.	Magn	sc.2	Cu.	Magn
1	B		.	8.7	8.4	8.6	1.34	7.46	8.6	1.49	7.11
2	B		.	10.15	10.2	10.1	1.54	8.61	10.1	1.82	8.28
3	5.5		3.43	89.3	10.5	10.6	1.62	8.93	11.1	1.94	9.16
4	6.5		3.09	98.9	11.85	11.9	1.81	10.04	t.p.	.	.
5	7.5		2.85	106.5	12.6	12.6	1.85	10.75	sup?	.	.
6	7.5		2.85	106.5	12.6	12.7	1.85	10.80	12.9	2.03	10.87
7	8.1	8.1	8.25 2	109.6	12.7	t.p. (sup)	1.86	10.84	13.1	2.03	11.07
8	8.5	8.7	8.75 0	113.2	13.1	13.2	1.86	11.29	12.4	2.03	11.37
9	9.4		2.37	117.7	13.4	13.5	1.88	11.57	1.	.	.
10	10.1		2.18	122.8	1.	t.p.	.	.	.	.	.
11	10.1		2.18	122.8	.	.	.	.	.	.	.
12	10.1		2.18	122.8	.	.	.	.	.	.	.
13	10.4		2.10	12.50	.	.	.	.	.	.	.
14	10.5		2.07	12.57	.	.	.	.	.	.	.
15	10.7		2.04	12.74	.	.	.	.	.	.	.
16	10.8	11.1	10.95	12.94	.	.	.	.	.	.	.
17	11.6	11.6	11.60	13.45	.	.	.	.	.	.	.
18	12.4	12.4	12.40	14.24	.	.	.	.	.	.	.
19	12.5	12.5	12.50	14.34	.	.	.	.	.	.	.
20	13.4	13.4	13.40	15.42	.	.	.	.	.	.	.

Ch. F.C.

Tuesday June 29, 1915

Scale R

Series 418

9:15

mc 7426

Pole -

curve, Sheet No. 195.

mc 7432

P.C.

P.C.

	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3	
5													
6													
8													
9													
10	55			58									
11	64			65									
12	66			69									
13	74			77									
14	79			80									
15	84	B.		84									
16	85	8.5	8.45 0.1	8.5	8.8	8.80 0.0	8.65	15 15 2.75	13.4				nearly sup. -2.00
17	89	9.1	9.00 1.1	9.2	9.20 0.0	9.10	10 10 2.53	n.s.					
18		9.6		10.1									
19		10.3		10.6									
20		10.6		10.9									
23		11.5		11.6									
25		12.1		12.2									
26		12.6	12.5 12.55	12.6									
27		12.5	12.6 12.65	13.4									
28		13.1	13.0 13.05	13.4									
29		13.4	13.5 13.45	13.5									
30		14.0	14.0 14.00	13.6									

bl. p. b.

P.C.'s and Differ. In. are from (for this series)

Tuesday June 29, 1915

Scale R

Series 418.

Diff. Images.

mc 7426		Pole	Diff. Images.		
	g	h	g	h	
	ac.1	ac.2	ac.1	ac.2	Diff.
5	93 75 84	93 75 84	93 75 84	93 75 84	77.2 03 02 - 1.23
6	81 84	81 84	81 84	81 84	83.5 05 05 - 1.24
8	96 95	95 95	96 95	96 95	96.8 13 12 - 1.45
9	10.4 10.4	10.5 10.5	10.4 10.4	10.4 10.4	10.5 05 05 - 1.67
10	10.6 11.5	10.6 11.5	10.5 11.2	10.6 11.3	10.5 02 03 - 1.56
11	11.5 11.6	11.2 11.7	11.2 11.5	11.3 11.6	11.3 05 05 - 1.75
12	11.6 12.2	11.7 12.2	11.5 12.4	11.6 12.4	11.6 05 05 - 1.74
13	12.2 12.5	12.2 12.5	12.4 12.4	12.4 12.5	12.3 10 10 - 2.00
14	12.5 12.6	12.5 12.9	12.4 12.8	12.5 12.9	12.4 02 03 - 1.83
15	12.6 13.1	12.9 13.2	12.8 13.1	12.9 13.1	12.8 03 02 - 1.70
16	13.1 13.6	13.2 t.p.	13.1 13.4	13.1 13.5	13.1 03 02 - 1.72
17	13.6 t.p.	t.p. t.p.	13.5 13.7	13.5 13.8	13.5 08 07 - 1.89
18	t.p.	t.p.	t.p.	t.p.	13.7 02 02 - 1.69
19					
20					
23					

Feb. 9. 6.

12:2,4

Tuesday, June 29, 1915

Card.

Scale R

Series 418

loguid.

mc 7427

D4

PC

att -18

sc.1 sc.2

sc.1 sc.2 sc.3

Cu. Magn.

1 B.

8.5

-15.6 7.24

2 B.

def.

3 B.

sup. or dbl?

+ B.

9.5

-17.1 7.79

5 B.

10.1

-18.4 8.26

6 B.

10.5

-19.0 8.60

7 B.

10.4

-18.9 8.51

haze around image

8 B.

10.6

-19.1 8.69

9 B.

10.4

-18.9 8.51

10 B.

10.6

-19.1 8.69

11 B.

3.18

9.68

11.1

-19.5 9.15

12 B.

3.18

9.68

11.6

-19.7 9.63

13 B.

3.28

9.68

t.p.

14 B.

2.90

10.43

12.3

-19.9 10.31

15 B.

2.78

10.58

12.4

-19.9 10.41

16 B.

2.95

10.35

12.5

-20.0 10.50

dbl?

17 B.

2.77

10.58

12.4

-19.9 10.41

18 B.

2.88

10.58

12.4

-19.9 10.41

19 B.

1.6

7.75

1.2

2.88

10.82

13.4

-20.0 11.40

20 B.

8.1

8.3

8.35

0.1

2.68

11.04

13.4

-20.0 11.40

21 B.

8.4

8.9

8.80

1.1

2.55

11.35

13.4

-20.0 11.40

22 B.

9.4

2.37

11.79

t.p.

23 B.

9.3

2.42

11.79

24 B.

9.1

2.29

11.79

25 B.

10.1

2.18

12.28

26 B.

10.2

2.15

12.35

ch. F.C.

18

Tuesday June 29, 1915.

Scale R

Series 418

Lesped.

Mc 1427

D4 cont.

alt. 18

	ac.2	ac.2		Cur.	Magn.
27	10.6			2.00	12.60
28	10.9			1.94	12.84
29	11.1			1.89	12.99
30	11.6			1.78	13.38
31	12.1			1.73	13.83
32	12.2	12.2	12.20 0 0	1.73	13.93
33	12.6	12.4	12.50 1 1	1.75	14.25
34	12.15	12.4	12.45 1 0	1.74	14.19
35	13.2	13.1	13.15 0 1	1.87	15.02
36	t.f.				
37	13.6			2.13	15.73
38	f.				

Lch. F.C.

Tuesday June 29, 1915

Scale R

Series 418

copied.

mc 7427

D4

Diff. Imm.

g h

alt. -18

	sc.1	sc.2	sc.1	sc.2	Cu. Magn.
1	8.1		t.p.		-1.27 7.13
2	8.6	8.85 10	8.8	8.5	-1.34 7.51
3	8.9				
4	8.9		t.p.		-1.40 7.80
5	10.2	10.15 0 1	10.1		-1.57 8.58
6	10.4	10.25 2 1	10.1		-1.59 8.66
7	10.2	10.20 0 0	10.2		-1.59 8.61
8	10.5	10.45 1 0	10.4		-1.62 8.83
9	t.p.		t.p.		
10	10.6		fractly sup.		-1.65 8.95
11	10.8		sup?		-1.68 9.12
12	11.5		t.p.		-1.77 9.73
13	11.4	11.40 0 0	11.4		-1.76 9.64
14	11.6	11.60 0 0	11.6		-1.78 9.82
15	12.1	12.10 0 0	12.1		-1.81 10.29
16	12.1		t.p.		-1.81 10.29
17	12.5	12.45 1 0	12.4		-1.81 10.64
18	12.2	12.20 0 0	12.2		-1.81 10.39
19	12.5	12.40 1 1	12.3		-1.81 10.59
20	12.6	12.55 0 1	12.5		-1.81 10.74
21	t.p.		13.2		-1.80 11.40
22	13.4		4.		-1.78 11.62
23	t.p.				
24	t.p.				
25					

beh. F.C.

20

Tuesday June 29, 1915

Card.

Scale R

Series 418

Copied.

mc 7428		Carte		7 ^h -16.5		alt. -23 P.C.	
ac.1	ac.2	Cu.	ac.1	ac.2	Cu.	Magn	Cu. Magn.
1			8.5	9.5	-1.32	7.48	9.3 -1.67 7.63
2			10.2	9.9	-1.54	8.41	10.1 -1.84 8.26
3				t.h.			10.5 -1.90 8.60
4		3.13	9.73	11.3	-1.77	9.63?	t.h.
5		3.10	9.80	11.8	-1.80	10.00	t.h.
6		3.00	10.10	12.1	-1.81	10.29	t.h.
7	8.1 8.1	8.25 2.1	10.94	12.8	-1.81	10.94	13.1 -2.00 11.10
8	8.5 8.4	8.75 0.1	11.31	13.5	-1.78	11.72	t.h.
9	9.2	2.44	11.64	t.h.	-1.78	11.72?	
9a	10.1	2.16	12.26				
10	10.2	2.12	12.32				
11	10.4	2.05	12.45				
12	10.6	2.00	12.60				
13	11.1	1.89	12.99				
14	11.6	1.88	13.38				
15	11.7	1.76	13.46				
16	11.5 12.1	1.80 3.3	13.55				
17	12.2 12.1	1.50 1.73	13.88				
18	12.2 12.3	1.25 0.1	13.98				
19	13.1 12.9	1.00 1.1	14.83				
20	13.5 13.5	1.50 0.0	15.55				
18a	12.6	1.76	14.36				

Ch. F. b.

Tuesday June 29, 1915

Card.

Sealer

Series 418

Copied.

mc7429

Carte

1^h - 2.5

Differ. In.

Att. 403

Bc.

	sc.1	sc.2	sc.3	Cu.	Magn.	sc.1	sc.2	Cu.	Magn.	sc.1	sc.2	Cu.	Magn.
1 B.						8.5	elng.	-1.28	7.22	8.6		-1.51	7.09
2 B.						8.9	elng.	-1.30	7.40	8.8		-1.55	7.25
3 B.						9.40	0.0			8.5			
4 B.						9.4	9.4	-1.44	7.96		9.5	-1.71	7.79
5						10.7	th.	-1.66	9.04		10.1	-1.93	8.77
6				3.13	9.73	11.2	th.	-1.73	9.47		11.4	-1.96	9.44
7				2.81	10.61	12.3	12.3	-1.81	10.49		12.2	-1.99	10.21
8				2.79	10.69	12.5	12.3	-1.81	10.59		12.6	-2.00	10.60
9				2.53	11.43	13.3	12.6	-1.80	11.40		th.		
10				2.42	11.72	13.5	13.4	-1.78	11.67				
11				2.12	12.32	13.6	±	-1.78	11.82				
12				2.04	12.54								
13				1.89	12.99								
14				1.86	13.06								
15				1.82	13.22								
16				1.76	13.41								
17				1.74	14.14								
18				1.76	14.31								
19				1.80	14.70								
20				1.99	15.39								

bh. f.c.

Tuesday June 29, 1915

Card

Scale R

Series 418

Copied.

mc 1430		Carle-		8h - 10°		Att. - 07		P.C.	
ac.1	ac.2			Diff. In.				ac.2	Cu. Magn.
1 B.				9.8	10.1	1.54	8.41	10.5	1.90 8.60
2 B.				10.6	t.f.	1.66	8.94	10.6	1.91 8.69
3 B.				10.6	10.6	1.66	8.94	11.2	1.96 9.24
4 6.8		3.00		10.10	11.9 t.f.	1.80	10.10		not comp.
5 7.6 B.		2.79		10.69	12.6 12.5	1.81	10.74	12.6	2.00 10.60
6 8.5 8.9	8.85 0.1	2.53		11.38	13.4 13.4	1.79	11.61	13.3	2.00 11.30
7 8.8 9.1	9.10 0.0	2.47		11.57	t.f. t.f.			4.	
8 9.5		2.36		11.86				n.s.	
9 9.8		2.25		12.05					
10 9.8		2.25		12.05					
11 10.4		2.05		12.45					
12 10.6		2.00		12.60					
13 10.1		1.98		12.68					
14 11.1		1.89		12.99					
15 11.6 11.5	11.55 0.1	1.79		13.34					
16 11.5 11.6	11.55 0.1	1.79		13.34					
17 12.1 12.2	12.15 0.0	1.73		13.88					
18 12.5 12.5	12.50 0.0	1.75		14.25					
19 13.1 13.2	13.15 0.1	1.87		15.02					
20 13.6 13.5	13.55 0.1	2.09		15.64					

ch. F.L.

Tuesday June 29, 1915

Card.

Scale R.

Series 418

copied.

Mc 7431			Carte		98 + 17.5		Diff. Imm.		att. + 18		Oc.	
sc.1	sc.2	sc.2										
1 B.							9.50	9.5			9.9	
2 B.							10.40	10.4	-1.46	8.04	10.6	1.80 8.10
3 B.							10.45	10.4	-1.61	8.79	10.6	1.91 8.69
4 B.							10.4	10.5	-1.62	8.83	10.1	1.93 8.77
5 del							11.50	11.5	-1.78	9.72	11.1	1.95 9.15
6 7.2 B.		2.90		10.40	12.20	12.2	12.2	12.2	-1.81	10.39	12.4	1.99 10.41
7 8.1	8.1	8.25 2.1	2.69	10.94	12.20	12.1	12.3	12.3	-1.81	10.39	12.6	2.00 10.60
8 8.4	8.6	8.65 1.0	2.59	11.24	13.45	13.4	13.5	13.5	-1.81	10.99	13.1	2.00 11.10
9	10.1		2.16	12.26	4	4			-1.78	11.67	13.4	2.00 11.40
10	10.3		2.10	12.40								
11	10.1	10.6	10.65 1.0	12.64								
12	10.1	10.6	10.65 1.0	12.64								
13	11.4		1.81	13.21								
14	11.4		1.81	13.21								
15	11.6	11.1	11.65 0.1	13.41								
16	12.2	12.2	12.20 0.0	13.93								
17	12.2	12.2	12.20 0.0	13.93								
18	12.2	12.2	12.20 0.0	13.93								
19	12.4	12.6	12.50 1.1	14.24								
20	13.4	13.5	13.45 0.1	15.45								

Ch. F.C.

24

Thursday July 1, 1915

Scale R

Series 455

9:34

mc7899

Pole -

Curve Sheet 194.

mc7904

P.C.

mc
7904

	pc.1	pc.2	pc.3	sc.1	sc.2	sc.3	pc.1	pc.2	pc.3	sc.1	sc.2	sc.3
5							8.0			8.1		
6							7.7	8.05	0.1	7.8		1.56
8							8.7	8.75	1.0	8.8		1.64
9							8.4			8.5		
10	5.9			6.3								
11	5.6			6.0								
12	6.5			6.8								
13	6.5			6.5								
14	7.4			7.4								
15	7.1			7.1								
16	8.0			7.8								
17	7.7	B.		7.5								
18	8.5			8.6								
19	8.2	8.4	8.45	8.3	8.3	8.45	2.1	8.45	0.0	0.0	2.20	13.4
20	9.1			8.8	8.1	8.75	0.1	8.85	10.10	2.23	14.0	14.00
21	8.8	8.8	8.95	8.5	8.1	8.75	0.1	8.85	10.10	2.23	14.0	14.00
22	9.2			9.5								
23	8.9	9.4	9.30	9.5				9.40	10.10	2.00	14.0	14.00
24				9.9				9.85	0.1	1.78		
25		9.8		10.6				10.55	1.0	1.51		
26		10.5		10.7				10.75	0.1	1.67		
27		10.8		11.4				11.30	1.1	1.43		
28		11.2		11.7				11.75	0.1	1.59		
29		11.8		12.5	12.5	12.50	12.48	0.3	0.2	1.39		
30		12.5	12.4	12.45	12.9	13.1	13.00	12.88	1.3	1.2	1.45	
31		12.9	12.6	12.75	13.4	13.4	13.40	13.38	0.3	0.2	1.31	
32		13.3	13.4	13.35	13.4	13.5	13.45	13.50	0.5	0.5	1.61	
33		13.6	13.5	13.55	14.0	14.0	14.00	13.95	0.5	0.5	1.71	
34		13.9	13.9	13.90								
35		14.0	14.0	14.00								
36		14.0	14.0	14.00								
37		14.0	14.0	14.00								
38		14.0	14.0	14.00								
39		14.0	14.0	14.00								
40		14.0	14.0	14.00								
41		14.0	14.0	14.00								
42		14.0	14.0	14.00								
43		14.0	14.0	14.00								
44		14.0	14.0	14.00								
45		14.0	14.0	14.00								
46		14.0	14.0	14.00								
47		14.0	14.0	14.00								
48		14.0	14.0	14.00								
49		14.0	14.0	14.00								
50		14.0	14.0	14.00								
51		14.0	14.0	14.00								
52		14.0	14.0	14.00								
53		14.0	14.0	14.00								
54		14.0	14.0	14.00								
55		14.0	14.0	14.00								
56		14.0	14.0	14.00								
57		14.0	14.0	14.00								
58		14.0	14.0	14.00								
59		14.0	14.0	14.00								
60		14.0	14.0	14.00								
61		14.0	14.0	14.00								
62		14.0	14.0	14.00								
63		14.0	14.0	14.00								
64		14.0	14.0	14.00								
65		14.0	14.0	14.00								
66		14.0	14.0	14.00								
67		14.0	14.0	14.00								
68		14.0	14.0	14.00								
69		14.0	14.0	14.00								
70		14.0	14.0	14.00								
71		14.0	14.0	14.00								
72		14.0	14.0	14.00								
73		14.0	14.0	14.00								
74		14.0	14.0	14.00								
75		14.0	14.0	14.00								
76		14.0	14.0	14.00								
77		14.0	14.0	14.00								
78		14.0	14.0	14.00								
79		14.0	14.0	14.00								
80		14.0	14.0	14.00								
81		14.0	14.0	14.00								
82		14.0	14.0	14.00								
83		14.0	14.0	14.00								
84		14.0	14.0	14.00								
85		14.0	14.0	14.00								
86		14.0	14.0	14.00								
87		14.0	14.0	14.00								
88		14.0	14.0	14.00								
89		14.0	14.0	14.00								
90		14.0	14.0	14.00								
91		14.0	14.0	14.00								
92		14.0	14.0	14.00								
93		14.0	14.0	14.00								
94		14.0	14.0	14.00								
95		14.0	14.0	14.00								
96		14.0	14.0	14.00								
97		14.0	14.0	14.00								
98		14.0	14.0	14.00								
99		14.0	14.0	14.00								
100		14.0	14.0	14.00								

12:05

bl. P.C.

Thursday July 1, 1915

Scale R

Series 455

mc7899		mc7904		D. diff. Jan.	
g	h	g	h		
sc.1 sc.2	sc.1 sc.2	sc.1 sc.2	sc.1 sc.2		
5 7.5 7.80 0.0	7.8 1.5	7.7 7.90 0.0	7.7 1.4	7.75 05 05	-1.26
6 8.4 8.55 2.1	8.7 8.4	8.4 8.40 0.0	8.1 8.1	8.48 07 08	-1.37
8 9.8 9.95 2.1	10.1	9.7 9.75 2.0	9.8	9.85 10 10	-1.62
9 10.6 10.55 0.1	10.5	10.4 10.45 0.1	10.5	10.50 05 05	-1.67
10 10.9 11.05 1.2	11.2	10.8 10.75 0.1	10.7	10.90 15 15	-1.88
11 11.4 11.45 0.1	11.5	11.3 11.45 1.2	11.6	11.45 00 00	-1.90
12 11.8 11.80 0.0	11.8	12.2 12.15 0.1	12.1	11.98 18 17	-2.12
13 12.5 12.50 0.0	12.5	12.4 12.50 1.1	12.6	12.50 00 00	-2.20
14 12.8 12.85 0.1	12.9	12.6 12.85 2.3	13.1	12.85 00 00	-2.20
15 13.4 13.40 0.0	13.4	13.4 13.40 0.0	13.4	13.40 00 00	-2.32
16 13.5 13.55 1.0	13.6	13.4 13.50 1.1	13.6	13.52 03 02	-2.12
17 13.6 13.75 2.1	13.9	+	+	13.75 2 1	-2.12
18 n.s.	n.s.	n.s.	n.s.		
19					
20					
23					
25					
26					

B.H.C.

Raining heavily during observations.

26

Thursday July 1, 1915

Cand.

Scale R

Series 455

herpich.

mc 7900		B5		12 + 45°		38. Att. +23	
SC-1	SC-2			SC-1	SC-2	Cu.	Magn
1 B.				8.5		1.72	7.08
2 B.				8.9		1.79	7.21
3 B.					10.3	2.24	8.06
4 B.					10.6	2.33	8.27
5 B.					10.6	2.33	8.27
6 B.					11.1	2.46	8.64
7 B.					11.6	2.59	9.01
8 B.					11.5	2.56	8.94
9 B.					12.1	2.70	9.40
10 ^{6.7} 6.4		2.74	9.44	12.4	2.77	9.63	
10a ^{7.5} 7.2		2.52	10.02	sup.			
11 ^{6.5} 6.2		2.80	9.30	12.3	2.74	9.56	
12 ^{7.5} 7.5		2.42	10.22	13.4	2.86	10.54	
13 ^{7.9} 7.6		2.40	10.30	13.5	2.86	10.64	
14 ^{8.4} 8.1		2.24	10.64	13.8	2.85	10.95	
15 ^{8.1} 7.8 B.		2.34	10.44	13.8	2.85	10.95	
16 ^{8.2} 7.9	9.8	2.00 2.2	2.37	10.37	13.8	2.85	10.95
17a ^{8.2} 7.9	8.4	8.30 1.1	2.27	10.57	4.		
18 ^{9.2} 8.9	9.2	9.20 0 0	2.01	11.21			
19	9.1	1.79	1.85	11.49			
20	10.4	1.63	12.03				
21	10.6	1.59	12.19				
22	10.7	1.56	12.26				
23	10.7	1.56	12.26				
24	11.2	1.50	12.70				
25	11.4	1.49	12.89				

del. P.C.

Thursday July 11, 1915

Scale R

Series 455 *hopid.*

mc 1900

cont.

B5

att. 123

	sc. 2	sc. 2	Cu.	Magn.
26	11.6 ⁵		148	12.98
27	11.5 ⁶		148 ⁸	13.06 ⁸
27a	11.6		148 ⁸	13.08 ⁸
28	12.5	12.4	12.45 10 143	13.88
29	12.9	12.9	12.90 00 146	14.36
29a	13.5	13.6	13.55 10 156	15.11
29b	13.4	13.4	13.40 00 153	14.93
30	13.5	13.5	13.50 00 155	15.05
31	13.7	13.7	13.70 00 161	<u>15.31</u>
32	m.s.	m.s.	.	.
33	m.s.	.	.	.

Thursday July 11, 1915

Scale R

Series 455 copied.
Differ. Inn.

mc 7900		B5	
g		h	
pc.1	pc.2	pc.1	pc.2
81	82	84	
1.8	8.25 1.2	8.1	
8.7	8.90 0.0	8.7	
2	8.4	8.4	
3	9.5	def.	
4	10.4 10.40 0.0	10.4	
5	10.4 10.40 0.0	10.4	
6	10.2 10.20 0.0	10.2	
7	11.1 11.15 1.0	11.2	
8	10.9 11.15 3.2	11.4	
9	11.3 11.20 1.2	11.1	
10	12.1 12.10 0.0	12.1	
10a	12.2 12.30 1.1	12.4	
11	11.2 11.20 0.0	11.2	
12	12.1 12.65 1.0	12.6	
13	12.9 13.05 1.2	13.2	
14	12.9 13.05 1.2	13.2	
15	13.1 13.10 0.0	13.1	
16	13.2 13.20 0.0	13.2	
17a	13.1 13.25 1.2	13.4	
18	14.0 14.00 0.0	14.0	
19	f.	f.	
20			

Alt. +23

Cm. Magn

-136 6.89

-143 7.27

-158 7.92

-176 8.64

-176 8.64

-171 8.49

-192 9.23

-192 9.23

-194 9.26

-211 9.99

-215 10.15

-194 9.26

-218 10.47

-221 10.84

-221 10.84

-221 10.89

-222 10.98

-222 11.03

-224 11.76

Thursday July 1, 1915

Card.

Scaler

Series 455

hopid.

mc 1901

Carte

12^h - 23.5°

Diff. In. alt. - 45 OC.

sc1	sc2	sc3	Cu.	Magn	sc1	sc2	Cu.	Magn	sc2	Cu.	Magn
1	8		.	8.4	8.5	8.45	1.142	7.18	9.1	1.83	7.27
2	8.		.	11.4	11.2	11.30	1.196	9.34	12.2	2.72	9.48
3	6.5		2.71	9.51	11.4	11.6	1.150	1.200	9.50	t.p.	.
4	7.3		2.49	10.09	t.p.	t.p.	.	.	t.p.	.	.
5	7.4		2.46	10.16	12.5	t.p.	2.17	10.33	13.6	2.86	10.74
6	7.5	8	2.42	10.22	12.5	12.8	1.265	1.2	10.47	t.p.	.
7	8.1	9.1	9.05	11.11	14	14.0	2.24	11.76	f.	.	.
8	9.4		1.94	11.34	f.	f.	.	.	.	.	.
9	9.4		1.94	11.34	.	.	.	.	.	.	.
10	10.4		1.63	12.03	.	.	.	.	.	.	.
11	10.6		1.59	12.19	.	.	.	.	.	.	.
12	11.1		1.51	12.61	.	.	.	.	.	.	.
13	11.1		1.51	12.61	.	.	.	.	.	.	.
14	11.3		1.50	12.80	.	.	.	.	.	.	.
15	11.4		1.49	12.89	.	.	.	.	.	.	.
16	11.8	11.7	11.75	13.20	.	.	.	.	.	.	.
17	12.1	12.1	12.10	13.53	.	.	.	.	.	.	.
18	12.6	12.5	12.55	13.99	.	.	.	.	.	.	.
19	13.1	13.2	13.15	14.64	.	.	.	.	.	.	.
20	t.p.	12.4	1.53	14.93	.	.	.	.	.	.	.

alt. f.c.

30

Thursday July 1, 1915

Cand.

Scale R

Series 455

lepid.

9
mc 7802

Carte

12^h - 10^o

Diff. Im.

att. -07

G.C.

	sc.1	sc.2	sc.3		sc.2	sc.2	Cu.	Magn	sc.2	Cu.	Magn
1 B.					995-2.1	10.1					
					9.8	10.1	-1.66	8.29	10.6	-2.33	8.27
2 B.					10.35-1.0	10.1					
					10.3	10.4	-1.73	8.62	11.1	-2.46	8.64
3 B.					10.70-1.1	10.1					
					10.6	10.8	-1.81	8.89	11.5	-2.56	8.94
4 B.					11.00-1.1	10.1					
					11.1	10.9	-1.89	9.11	11.7	-2.61	9.09
5 6.5				2.71	11.55-1.1	10.1					
					9.51	11.6	-2.01	9.54	12.4	-2.77	9.63
6 7.3				2.58	11.8	11.95-2.1					
					9.88	12.1	-2.08	9.87	13.1	-2.85	10.25
7 7.7				2.46	12.20-0.0	12.2					
					10.16	12.2	-2.13	10.07	13.3	-2.86	10.44
8 7.8				2.42	12.40-0.0	12.4					
					10.22	12.4	-2.16	10.24	13.4	-2.86	10.54
9 8.5	8.5	8.65	2.1	2.18	13.2	13.2					
					10.83	12.5	-2.22	10.98	t.p.		
10 8.9	9.1	9.15	0.1	2.03	13.55-1.0	13.6					
					11.18	13.5	-2.23	11.32			
11 9.5				1.92	11.42	13.6					
					11.35						
12 9.4				1.95	11.97						
					12.19						
13 10.3				1.67	12.80						
					12.70						
14 10.6				1.59	13.03						
					13.73						
15 11.3				1.50	14.92						
					15.37						
16 11.2	11.2	11.20	0.0	1.50							
17 11.5	11.6	11.55	0.0	1.48							
18 12.3	12.3	12.30	0.0	1.43							
19 13.4	13.4	13.40	0.0	1.52							
20 13.7	13.8	13.75	0.0	1.62							

Ch. P. L.

Thursday July 11, 1915

Card.

Scale R

Series 455

copied.

MC 7803

Carte

12^h + 5.0

Differ. Inv. alt +11 G.C.

sc.1	sc.2	sc.2	Cu.	Magn	sc.2	sc.2	Cu	Magn	sc.2	Cu.	Magn	
1 B.			.		8.9	9.0	8.95	1.0	1.48	7.47	9.9	
2 B.			.		10.6	10.6	10.60	0.0	0.179	8.81	11.2	
3 B.			.		10.6?	10.6 ^{hor}	10.60	0.0	0.179	8.81	11.6	
4 B.			.		11.4	11.5	11.45	0.1	0.199	9.46	12.4	
5 ^{8.4} 8.1	8.1	8.25	2.1	2.29	10.54	12.8	12.7	12.75	0.1	2.19	10.56	14.0
6 ^{8.1} 8.1	8.1	8.10	0.0	2.34	10.44	13.2	13.2	13.20	0.0	2.22	10.98	13.5
7 ^{8.4} 8.1	8.5	8.45	0.1	2.20	10.67	t.f.	t.f.	.	.	14.0	2.84	<u>11.16</u>
8	9.4		19.5		11.35	±	±	.	.	.	.	.
9	10.5		16.1		12.11			.	.	.	.	.
10	11.4		14.9		12.89			.	.	.	.	.
11	11.2		15.0		12.70			.	.	.	.	.
12	11.6		14.7		13.07			.	.	.	.	.
13	11.6		14.7		13.07			.	.	.	.	.
14	11.5		14.8		12.98			.	.	.	.	.
15	11.7		14.6		13.16			.	.	.	.	.
16	12.2	12.4	12.30	14.3	13.73			.	.	.	.	.
17	12.5	12.6	12.55	14.5	14.00			.	.	.	.	.
18	12.6	12.6	12.60	14.5	14.05			.	.	.	.	.
19	13.1	13.1	13.10	14.8	14.58			.	.	.	.	.
20	13.8	13.8	13.80	16.5	15.45			.	.	.	.	.

chi f.c.

11:55 12:1

32

Monday August 1, 1915

Scale R

Series 501-

245	mc 8172			Pole.			P.C.			P.C.			Diff.
	sc.1	sc.2	sc.3	sc.1	sc.2		sc.1	sc.2		sc.1	sc.2		
5							8.0			8.4			-1.71
6							8.1	8.20	2.2	8.1			-1.89
8							8.7	9.00	1.1	9.1			-2.72
9							8.6			8.8			-3.27
10	6.5			6.5						11.1	10.95	1.2	-3.13
11	6.2			6.2						12.1	12.10	0.0	-3.55
12	7.1			7.1						12.1	12.15	1.0	-3.49
13	6.8			7.1			6.50	0.0	2.52	12.1	12.15	1.0	-3.55
14	7.7			7.7			7.25	1.2	2.30	13.1	13.10	0.0	-3.55
15	7.4			7.4			7.70	0.0	2.16	13.4	13.35	0.1	-3.55
16	7.7			7.7						13.8	13.85	0.1	-3.30
17	8.1	8.1	8.00	8.1	8.1	8.25	8.1	8.25	2.1	8.12	12.13	2.18	-3.30
18	8.5	8.5	8.65	8.3	8.8	8.70	8.3	8.8	1.1	8.68	0.3	0.2	-3.30
19	8.9	9.2	9.20	9.4			9.30	1.0	1.78	13.9	13.95	1.0	-3.30
20	9.8			9.7			9.75	0.1	1.65				
21	10.4			10.4			10.40	0.0	1.23				
22	10.6			10.6			10.60	0.0	1.46				
23	11.1			11.2			11.15	1.0	1.27				
24	11.6			11.8	11.7	11.75	11.68	0.8	0.7	10.5			
25	12.5	12.5	12.50	12.4	12.4	12.40	12.45	0.5	0.5	0.89			
26	13.2	13.1	13.15	13.4	13.4	13.40	13.38	1.3	1.2	0.59			
27	13.6	13.5	13.55	13.5	13.5	13.50	13.52	0.3	0.2	0.81			
28	13.9	13.9	13.80	14.0	14.0	14.00	13.90	1.0	1.0	0.79			
29	14.1	14.1	14.10	14.0	14.0	14.00	14.10	2.7	1.0				
30	m.s.	m.s.		m.s.									
31													

Monday August 11, 1915

Scale R

Series 507-

mc 8772

Pole.

mc 8777-

g Diff. Images.

Diff. Im.

	ac.1	ac.2	ac.1	ac.2
	78	00	78	
5	7.5	780	7.5	
6	8.5	860	8.7	
	8.2	1	8.4	
8	10.2	1020	10.2	
9	11.1	1110	11.1	
10	11.6	1155	11.5	
11	12.4	1240	12.4	
12	12.6	1260	12.6	
13	13.3	1335	13.4	
14	14.0	1395	13.9	
15	4		4	
16				
17				
18				
19				
20				
23				
25				

	ac.1	ac.2	ac.1	ac.2	Diff.
	76	00	78		
7.9	7.3	770	7.5		7.75 05 05 - 1.26
	8.4	845	8.5		8.52 08 07 - 1.41
	8.1	82			
1	10.4	1035	10.3		10.28 08 07 - 2.05
	11.1	1115	11.2		11.12 02 03 - 2.29
	11.5	1150	11.5		11.52 03 02 - 2.50
	12.4	1245	12.5		12.42 02 03 - 2.87
	12.7	1270	12.7		12.65 05 05 - 2.79
	13.4	1345	13.5		13.40 05 05 - 3.10
	13.9	1390	13.9		13.92 03 02 - 3.27

L.H.F.L.

4:25

34

Monday August 1, 1915

Card.

Scale R

Series 507-

leaped.

Plot 201

Mc8773

Carte

19^h + 10.5

Diff. In.

alt. +15

G.C.

	sec. 1	sec. 2	Cum.	sec. 1	sec. 2	Cum.	sec. 1	sec. 2	Cum.	May
1	5.4			10.4	10.6	10.50 11 - 2.14	8.36	10.1	-2.61	8.0
2	5.1			8.90	11.6	11.60 00 - 2.53	9.07	12.4	12.3 12.35 01 3.28	9.0
3	6.4		2.50	9.07	11.8	11.75 01 - 2.58	9.17	12.1	12.3 12.20 11 3.22	8.9
4	6.6		2.47	9.22	12.9	12.90 00 - 2.96	9.24	13.4	-3.54	9.8
5	6.3		2.22	10.89	13.6	13.70 11 - 3.22	10.48	m.s.		
6	7.4	B.	1.80	11.00	13.9	13.95 10 - 3.29	10.66			
7	9.0		1.73	11.13	14.1	14.05 10				
8	8.1	9.1	1.70	11.20	14.1	14.05 10				
9	9.1	9.05 01	1.51	11.61						
10	9.2		1.60	11.45						
11	9.3	9.5	1.51	11.61						
12	9.4	9.46 11	1.48	11.68						
13	9.5		1.38	11.88						
14	10.1		1.34	11.94						
15	10.1	10.1	1.20	12.38						
16	10.2		1.18	12.71						
17	10.5		1.06	13.09						
18	10.6		0.94	13.36						
19	11.2	11.2	0.86	13.76						
20	11.6	11.7	0.76	14.37						

Ch. F.C.

Monday August 1, 1915

Card.

Scale 12

Series 507-

logarith.

mc8974

C10.

P.C.

act. +17

Magn	sc.1	sc.2	sc.2	sc.1	sc.2		
809	1 B			8.4		-1.74	6.66
807	2 B.			8.1		-2.26	7.38
898	3 B.			8.9	9.5	-2.12	7.13
886	4 B.			8.6	9.2	9.05 12-192	7.13
	5 B.				10.1	-2.36	7.74
dbl.	6 .				10.6	-2.58	8.02
	7 B.				10.6	-2.58	8.02
	8 ^{5.9} 5.6				11.7	-3.03	8.67
	9 ^{6.7} 6.4		2.45	9.15	13.3	-3.53	9.77
	10 ^{7.3} 7.0		2.32	9.62	12.1	-3.40	9.30
	11 ^{7.7} 7.4		2.23	9.93	nearly sup.		
	12 ^{8.1} 8.1	8.1	8.25 2.2 2.08	10.33	13.8	-3.50	10.30
	13 ^{8.7} 8.4	8.5	8.60 1.1 1.98	10.58	t.p.		
	14 ^{9.0} 8.1	8.6	8.80 2.2 1.92	10.72			
	15	9.4	1.73	11.13			
	16	9.6	1.67	11.27			
	17	10.5	1.38	11.88			
	18	11.2	1.18	12.38			
	19	11.7	11.5 11.60 1.06	12.66			
	20	11.8	1.02	12.82			
	21	12.3	0.90	13.20		ch. P.C.	
	22	13.3	13.3 13.30 0.76	14.06			
	23	13.3	13.4 13.35 0.76	14.11			
	24	1.					
	25	1.					
2	12.2		0.91	13.11			
6	11.2		1.18	12.38			

36

Monday August 2, 1915.

Scale R

Series 5 of *h* *h* *h*.

mc 8114		C ₁₀	cont	Diff. <i>h</i> .	alt. +17
<i>g</i>	<i>h</i>				
79	84				
1 7.6 8.15 3 2	8.4			-1.33	6.82
87	88				
2 8.4 8.75 2 0	8.5			-1.50	7.25
86	85				
3 8.3 8.55 0 1	8.5			-1.44	7.11
91	82				
4 8.8 9.25 1 2	9.4			-1.70	7.55
10.3 10.35 1 0	10.4			-2.09	8.26
6 dbl.	dbl.				
10.1 10.10 0 0	10.1			-2.00	8.10
11.3 11.25 1 0	11.2			-2.39	8.86
11.5 11.55 1 0	11.6			-2.52	9.08 ⁵
12.1 12.15 1 0	12.2			-2.74	9.41 ⁴
12.6 12.55 0 1	12.5			-2.84	9.71
13.4 13.40 0 0	13.4			-3.13	10.27
13.5 13.65 1 2	13.8			-3.25 ¹⁹	10.48 ⁶
14.0 14.00 0 0	14.0			-3.30 ⁸	10.70 ⁸
15 5.					
16					
17					
18					
19					

Ch. P.C.

Monday August 2, 1915

Card.

Scale B

Series 507. Lepid

mc 8975

63 K.

Differ. Im. alt. +21 P.C.

	sc.1	sc.2	sc.3	Cu.	Magn	g	h	Cu.	Magn	sc.2	Cu.	Magn
1	6.1			.		10.8	10.8	10.80	00-226	8.54	11.9	3.10 8.80
2	5.8			.		11.4	11.3	11.35	01-243	8.92	*2 13.2	-3.22 8.98
3	7.7			2.22	9.92	12.5	12.1	12.60	11-288	9.72	13.4	-3.54 9.86
4	1.5	1.5	7.65	2.1	2.24	9.89	12.8	12.6	12.70	11-290	9.80	13.4 -3.54 9.86
5	8.5	8.9	8.85	0.1	1.90	10.75	13.8	13.9	13.85	01-326	10.59	f.
6		9.1		1.83	10.93	13.8	14.1					
7		9.4		1.73	11.13	n.s.						
8		10.1		1.51	11.61							
9		10.8		1.29	12.09							
10		10.8		1.29	12.09							
11		11.7	12.1	11.90	1.00	12.90						
12		12.2	12.2	12.20	0.92	13.12						
13		13.1	12.9	13.00	0.78	13.78						
14		13.4	13.3	13.35	0.75	14.10						
15		13.8	14.0	13.90	0.86	14.76						
16		f.		.	.							
17												
18												
19												

* remeasured Aug. 7, 1915.

P.C.

2) 12.2

wrong unit in above meas.

ch. P.C.

Monday August 2, 1915

Card.

Scale R

Series 507

Lepid.

mc 8776			Carte		19 + 55°		Diff. Im.		act. + 1		P.C.	
ac.1	ac.2				g	h			Cur.	pc.2	Cur.	Magn
1	B.				10.3	10.4	10.35	10 - 2.10	8.25	10.6	2.58	8.02
2	6.5		2.43		9.23	12.1	12.1	12.10 00 - 2.69	9.41	12.7	3.39	9.31
3	7.5		2.29		9.79	12.7	12.8	12.75 10 - 2.90	9.85	13.4	3.54	9.86
4	8.1	8.2	8.30	1.1	10.36	13.5	13.5	13.50 00 - 3.16	10.34	14.0	3.41	10.59
5	8.5	8.9	8.85	0.1	10.75	13.9	13.8	13.85 10 - 3.27	10.58	n.s.		
6	8.9	9.3	9.25	0.1	11.04	14.0	14.0	14.00 00				
7	9.6		1.66		11.26	n.s.	n.s.					
8	10.5		1.38		11.88							
9	10.8		1.29		12.09							
10	10.9		1.26		12.16							
11	11.4		1.12		12.52							
12	11.5		1.10		12.60							
13	12.2		0.92		13.12							
14	12.3	12.2	12.25	0.91	13.16							
15	12.4	12.4	12.40	0.88	13.28							
16	12.5	12.5	12.50	0.86	13.36							
17	12.9	12.9	12.90	0.80	13.70							
18	13.3	13.3	13.30	0.76	14.06							
19	13.8	13.5	13.65	0.68	14.33							
20	f.	f.										

40

Tuesday August 3, 1915.

Scale 2.

Series 501.

mc 8177

Pole

mc 8183.

Curve, Sheet No. 202.

g		h		Differ. 1 st m.	
sc. 1	sc. 2	sc. 1	sc. 2	sc. 1	sc. 2
5.77	7.75	7.5	7.5	7.65	10 10 - 116
5.84	8.40	8.4	8.4	8.40	00 00 - 129
6.81	8.1	8.1	8.1	10.12	03 02 - 189
8	10.1 10.15	10.2	10.1	10.8	10.95
9	11.1 11.15	11.2	11.1	11.5	11.50
10	11.3 11.35	11.4	11.5	12.3	12.35
11	12.2 12.25	12.3	12.4	12.5	12.55
12	12.8 12.85	12.7	12.6	13.4	13.40
13	13.2 13.20	13.2	13.4	13.9	13.85
14	13.8 13.85	13.9	13.8	14.0	14.0
15	t.p.	14.0	14.0	14.0	14.0
16	t.	t.	t.	14.0	14.0
17					
18					
19					
20					
23					

Ch. P. L.

3:05

Tuesday August 3, 1915

Card.

Scale B

Series 507

logrid.

mc 8778

Carte

20 +5.0°

Differ. Imm. att. +11 P.C.

pc.1 pc.2 pc.2

g h Cuv. Magn. 202 Cuv.

1 B				94	93	9.35	01	-163	7.72	10.1	-2.27	783	
2 B				10.1	103	10.20	11	-195	8.25	nearly	ref.		
3 5.5			2.99	8.79	116	116	1160	00	-248	9.12	12.21	3.11	9.09
4 7.7			2.40	10.10	13.1	13.3	13.20	11	-299	10.21	13.4	-3.41	9.99
5 7.9	11	780	11	10.16	13.1	13.4	13.25	12	-300	10.25	±		
6 8.2	19	805	21	10.35	13.8	13.8	13.80	00	-305	<u>10.75</u>	<u>10.85</u>		
7	96		1.76	11.36	n.s.	n.s.							
8	96		1.76	11.36									
9	10.1		1.60	11.70									
10	10.6		1.42	12.02									
11	12.1		0.97	13.07									
12	12.3		0.90	13.20									
13	12.7		0.82	13.52									
14	12.8	13.1	12.95	13.71									
15	13.3	13.2	13.25	13.96									
16	13.4	13.5	13.45	14.15									
17	13.4	13.6	13.50	14.20									
18	14.0? ±		0.79	14.79?									
19	±												
20	n.s.												

leg for
1x Aquilae

a B.				9.29	11.2	11.2	11.20	00	-232	8.88	12.3	-3.14	9.16
c 5.6					11.2	11.5	11.35	21	-238	8.97	12.2	-3.11	9.09
b 6.4			2.82	9.22	12.3	12.4	12.35	10	-275	9.60	13.1	-3.37	9.73
a' 6.5			2.79	9.29	12.4	12.5	12.45	01	-278	9.67	13.2	-3.39	9.81

blu P.C.

42

Tuesday August 3, 1915

Scale R

Series 507

exp. ind.

ME 8778				Cont.		Diffn.		Cu.		act. +11		P.C.		Cu		
	sc. 1	sc. 2	sc. 3			g	h					sc. 1	sc. 2			
e	75				2.42 ⁷	9.92 ⁷	12.8	13.1	12.95	2.1	-2.92	10.03	9.93	13.4	3.41	9.99
d	74				2.50	9.90	12.9	13.0	12.95	1.0	-2.91	10.03	9.93	13.4	3.41	9.99
b'	71	71	7.80	1.1	2.36	10.16	13.8	13.8 ⁵	13.65	2.1	-3.05	10.60	13.9	3.48 ³	10.42 ⁵	
c'	81				2.28	10.38	13.3	13.4	13.35	1.0	-3.00	10.35				
e'	86	8.1	8.10	0.0	2.12	10.67	13.3	13.4	13.35	1.0	-3.00	10.35				
f'	83	8.5	8.55	0.1	2.12	10.67	13.3	13.4	13.35	1.0	-3.00	10.35				
f'		9.3			1.86	11.16										
h'		9.8			1.70	11.50										
k'		9.7			1.74	11.44										
l'		10.1			1.60	11.70										
m'		10.3			1.52	11.82										
n'		10.9			1.32	12.22										
o'		11.1			1.25	12.35										
p'		11.4			1.15	12.55										
q'		11.7			1.06	12.76										
r'		12.2			0.94	13.14										
s'		12.6			0.84	13.44										
t		12.7			0.82	13.52										
u'		12.6			0.84	13.44										
w		13.4			0.70	14.10										
x		14.0			0.79	14.79										
y		14.														
Var.	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										
d'	81				2.28	10.38										
d'	79				2.34	10.24										

Tuesday August 3, 1915

Card.

Scale R

Series

log p.d.

mc 8779		B8		no +45-		Pe.		att. +22	
ac.1	ac.2			ac.1	ac.2	Cur.	Magm		
1 Q.		.		8.7 8.4		1.80	6.90		
2 B.		.			9.3	2.01	7.29		
3 B.		.			9.5	2.08	7.42		
4 B.		.			10.3	2.34	7.96		
5 B.		.			10.4	2.40	8.00		
6 B.		.			10.5	2.42	8.08 7.98		
7 B.		.			11.2	2.71	8.49		
8 B.		.			11.86 11.35 11.0	2.88 2.89	8.72 8.61		
9 B.		.			11.3 11.4	2.77	8.58		
10 5.3		.			12.1	3.07	9.03		
11 5.9		2.89	9.09		12.4	3.08	9.32		
12 6.2		2.79	9.29		13.4	3.41	9.99		
13 6.5		2.68	9.48		13.1	3.37	9.73		
14 6.4		2.71	9.41		13.2	3.39	9.81		
15 6.7		2.62	9.62		13.2	3.39	9.81		
16 7.4		2.40	10.10		13.6	3.41	10.19		
17 7.5	7.9	2.35	10.20		n.s.				
18 8.1	8.1	2.02	10.87						
19 8.9	9.0	1.95	11.05						
20	9.5	1.80	11.30						
21	10.2	1.55	11.75					Ch. P.C.	
22	10.6	1.42	12.02						
23	11.2	1.22	12.42						
24	12.1	0.97	13.07						
25	12.3	1.20	13.13						
26	13.3	1.20	13.91						

blu P.C.

44

Tuesday August 3, 1915

Scale R

Series 507

bopied.

mc 8779

B8 cont

alt. +22

Cw.

27 13.21 132 1320 00 071 1391

28 13.5 135 1350 00 070 1420

29 n.s. m.s.

30 n.s.

Ch. P.C.

Tuesday August 3, 1915

Scale R

Series 507-

Copied.

mc 8779

cont.

Diff. Im.

att. +22

	sc.1	sc.2	sc.1	sc.2	Cu	Magn
	79	78	77			
1	76	78	74		-1.18	6.62
	87	86	87			
2	84	86	86		-1.45	7.35
	87	85	88			
3	84	85	85		-1.42	7.33
45	10.2	10.15	10.1		-1.92	8.23
56	9.4	9.40	9.4		-1.65	7.75
67	9.5	9.50	9.5		-1.68	7.82
7	10.8	10.80	10.8		-2.18	8.62
8	10.8	10.95	11.1		-2.22	8.73
9	10.7	10.75	10.8		-2.15	8.60
10	11.3	11.35	11.4		-2.38	8.97
11	12.1	12.15	12.2		-2.67	9.48
12	12.1	12.10	12.1		-2.65	9.45
13	12.4	12.40	12.4		-2.76	9.64
14	12.5	12.45	12.4		-2.75	9.62
15	12.5	12.55	12.6		-2.81	9.74
16	13.1	13.10	13.1		-2.97	10.13
17	13.4	13.40	13.4		-3.00	10.40
18	4.		4.			
19	4.					
20						
21						
22						
23						
24						

Ch. P.C.

46

Tuesday August 3, 1915.

Carte

Scale R

Series 507.

Copied.

mc818Q1

Carte

30 $\pm 16.5 + 6.5^\circ$

Diffn. Inv.

alt. $+18$

P.C.

sc.1	sc.2	Cm.	Magn	g	h	sc.2	Cm.
1 0.							
2 6.3		274	9.34	12.9	12.1	12.00	1.1 - 2.25
3 6.5		268	9.48	12.4	12.4	12.40	0.0 - 2.40
4 7.5	9.1	238	10.13	13.1	13.1	13.10	0.0 - 2.46
5 7.9	8.1	226	10.41	13.4	13.4	13.40	0.0 - 2.77
6 8.2	8.4	216	10.61	13.5	13.5	13.60	1.1 - 2.82
7 8.1	9.2	191	11.11	14.0	f.		- 2.98
8 10.1		160	11.70				
9 10.5		145	11.95				
10 10.6		142	12.02				
11 11.1		125	12.35				
12 11.2		122	12.42				
13 11.8		104	12.84				
14 11.8		104	12.84				
15 12.1	12.1	094	13.04				
16 12.2	12.3	091	13.16				
17 12.8	12.6	080	13.52				
18 13.2	13.1	072	13.87				
19 13.6	13.8	071	14.41				
20 f.	f.						

Ch. F.C.

Tuesday August 3, 1915

Card

Scale R

Series 501.

loped

mc 8182			A3	20 + 15.0°	B.C.	alt. +14
sc.1	sc.2	sc.2		sc.1	sc.2	Magn
1	.	.	.	on edge	.	.
2	.	.	.	" "	.	.
3	B.	.	.	9.8	-2.17	7.63
4	B.	.	.	9.1	-2.14	7.56
5	B.	.	.	9.8	-2.17	7.63
6	5.5 ⁴	.	.	11.2	-2.71	8.49
7	5.9	.	.	11.2	-2.71	8.49
8	5.6	2.96	8.86	11.8	-2.96	8.84
9	5.6	2.96	8.86	11.8	-2.96	8.84
10	5.6	2.96	8.86	11.7	-2.92	8.78
11	5.5 ⁷	2.94	8.94	12.1	-3.07	9.04
12	6.4	2.72	9.42	12.7	-3.26	9.44
13	6.3	2.75	9.35	12.6	-3.24	9.36
14	7.4	2.50	9.90	13.2	-3.39	9.81
15	7.4	B.	10.10	t.f.	.	.
16	8.2	8.20 0 0	10.42	f.	.	.
17	8.1	8.30 1 1	10.51	14.0?	3.32	10.68?
18	8.4	8.6 5 1 0	10.74	.	.	.
19	8.6	8.8 5 1 0	10.87	.	.	.
20	9.3	1.86	11.16	.	.	.
21	9.9	1.66	11.56	.	.	.
22	10.1	1.60	11.70	.	.	.
23	10.6	1.42	12.02	.	.	.
24	10.8	1.84	12.44	.	.	.
25	11.2	1.22	12.42	.	.	.
26	11.7	1.06	12.76	.	.	.
c	11.1	1.25	12.35	.	.	.

beh. F.C.

48

Tuesday August 3, 1915 -

Scale R

Series 507. copied.

mc 87821 a 3.

alt 7.14

	RC.2 RC.2	Cu.	Magn
27	12.2	0.94	13.14
28	12.4 12.4 12.40 0 0	0.89	13.29
29	12.4	0.89	13.29
30	12.8	0.79	13.59
31	13.4 13.4 13.40 0 0	0.70	14.10
32	13.5 13.6 13.55 0 0	0.70	14.25
33	13.6 13.6 13.60 0 0	0.70	14.30
34	13.9 13.9 13.90 0 0	0.75	14.65
35	1.	.	.

d	11.9	1.01	12.91
u	11.3	0.90	12.20

Ch. F.C.

Tuesday August 3, 1915

Scale R

Series 507- copied.

Diff. Images.

alt. 7/14

		mc 81821			
		g h			
		sc.1	sc.2	sc.1	sc.2
edge	1	t.p.			
"	2	"			
	3	8.9 8.6	9.00 L ¹	9.1 8.8	-1.51 7.49
	4	8.7 8.4	8.65 L ⁰	8.6 8.3	-1.40 7.25
	5	8.7 8.4	8.75 L ⁰	8.8 8.5	-1.44 7.31
	6		10.3 10.45 L ²	10.6	-2.03 8.42
	7		10.2 10.25 L ⁰	10.3	-1.96 8.29
	8		11.2 11.15 L ⁰	11.1	-2.30 8.85
	9		11.3 11.35 L ⁰	11.4	-2.39 8.96
	10		11.1 11.15 L ⁰	11.21	-2.30 8.85
	11		11.4 11.35 L ⁰	11.3	-2.39 8.96
	12		12.1 12.15 L ⁰	12.2	-2.68 9.47
	13	t.p.		12.1	-2.66 9.44
	14		12.6 12.55 L ⁰	12.5	-2.79 9.76
	15		12.8 12.95 L ⁰	13.1	-2.96 9.99
	16		13.4 13.45 L ⁰	13.5	-3.02 10.43
	17		13.4 13.45 L ⁰	13.5	-3.02 10.43
	18		13.8 13.85 L ⁰	13.9	-3.04 10.86
	19		14.0	4.	
	20				

Col. S.C.

50

Thursday August 5, 1915.

Scale R
9:10

mc7904

Pole.
mc1910

Series 455

Curve, Sheet No. 202.

	mc7904	Pole. mc1910	P.C.	mc1910	
	pc.1 pc.2 pc.3 pc.4 pc.5		pc.1 pc.2	pc.1 pc.2	
5			8.0 1.1 4.80 2.2	7.6 1.3	1.31
6			8.5 8.60 2.3	8.1	1.49
8			10.6 10.45 2.1	10.3	2.22
9			11.1 11.10 0.0	11.1	2.27
10	5.9 5.6 6.5 7.6 7.3 7.9 7.6 8.6	5.4 5.1 6.5 6.2 6.9 7.4 7.1 8.0	5.65 3.2 3.37 11.6 11.45 2.1	11.3	2.43
11			6.65 2.1 2.90 12.3 12.30 0.0	12.3	2.75
12			7.25 4.3 2.61 12.6 12.50 1.1	12.4	2.64
13	1.6 1.1 7.80 1.2	1.1 1.9 7.95 0.1 8.18 2.2 2.3	7.65 3.2 2.65 13.2 13.15 0.1	13.1	2.85
14	8.3 8.2 8.40 2.2	8.1 8.5 8.50 0.0 8.65 1.5 1.5	8.47 sup?	14.0	2.92
15	8.6 8.1 8.80 1.1	8.2 8.9 8.90 0.0 9.20 3.0 3.0	2.47		
16	9.5	8.6 8.9	2.20		
17	9.6	9.3	9.45 2.1 2.18		
18	10.4	10.1	10.25 2.1 1.81		
19	10.6	10.6	10.60 0.0 1.82		
20	11.3	10.8	11.05 3.2 1.68		
23	11.7	11.8	11.75 1.0 1.59		
25	12.5 12.3 12.40	12.4	12.40 0.0 0.0 1.47		
26	12.9 12.9 12.90	12.6	12.75 1.5 1.5 1.58		
27	13.4 13.4 13.40	13.4	13.40 0.0 0.0 1.29		
28	13.5 13.4 13.45	13.4	13.42 0.3 0.2 1.69		
29	13.8 14.0 13.90	14.0	13.95 0.5 0.5 1.71	beh. P.C.	
30	m.s.	m.s.			

Thursday August 5, 1915

202

Scale R

Series 455

Mc 1904		Pole cont.		Diffraction Images.	
g		h		g	
sc.1	sc.2	sc.1	sc.2	sc.1	sc.2
7.7	7.5	7.8	7.5	7.7	7.5
5 7.4	7.5 1.0	7.5	7.5	7.4	7.5 1.0
6 8.5	8.6 1.1	8.7	8.4	7.9	7.8
				7.6	7.5 1.0
8	9.6 9.9 2.3	10.2		9.4	9.5 1.0
9	10.5 10.5 1.0	10.6		10.4	10.4 1.0
10	10.7 10.9 2.2	11.1		10.6	10.6 1.0
11	11.5 11.5 0.0	11.5		11.5	11.5 0.0
12	11.9 12.0 1.1	12.1		11.7	11.7 1.0
13	12.4 12.4 0.1	12.5		12.4	12.4 0.1
14	12.6 12.8 2.3	13.1		13.1	13.1 0.0
15	13.4 13.4 0.0	13.4		13.4	13.4 0.0
16	13.5 13.5 0.0	13.5		13.9	13.9 0.0
17	14.0 14.0 0.1	14.1		13.9	13.9 1.0
18	+	n.s.		+	+
19					
20					

bh. P.C.

52

Thursday August 5, 1915

Card.

Scales

Series 455 - looped.

mc 1905

D1

13 - 15°

Bc.

Att. - 18

	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	Cu.	Magn.
1 B.					9.2		1.72	7.48
2 B.					8.9		1.72	7.48
3 B.					9.2			
4 B.					10.2		2.08	8.12
5 B.					10.1		2.04	8.06
6 B.					9.1		1.90	7.80
7 B.					9.1		1.90	7.80
8 B.					9.6		2.20	8.40
9 B.					t.f.			
10 B.					10.6		2.20	8.40
11 5.9			3.31		11.1		2.34	8.76
12 6.5			3.01		11.2		2.36	8.84
13 6.2			2.98		t.f.			
14 6.5			3.01		12.1		2.61	9.49
15 6.7			2.98		12.5		2.70	9.80
16 7.4			2.95		12.6		2.72	9.88
17 7.1			2.71		12.6		2.72	9.88
18 7.6			2.87		12.8		2.77	10.03
19 7.3 B.			2.65		t.f.			
20 8.1	8.1	8.10	0 0	2.52	10.62			
21 8.7	8.5	8.60	1 1	2.38	10.98	14.0	2.91	11.09
22 8.8	8.8	8.80	0 0	2.32	11.12			
23 9.5	9.4	9.45	1 0	2.11	11.56			
24 9.3	9.5	9.40	1 1	2.12	11.52			
25 9.8				1.98	11.79			
26 10.4				1.82	12.22			
27 10.6				1.78	12.38			
28 10.6				1.78	12.38			

Ch. F. C.

Thursday August 5, 1915

Scale R

Series 455 looped.

mc 1905

cont

alt. -18

	sc.2	sc.2	Cur.	Magn
27	11.2		168	12.88
28	11.6		161	13.21
29	l.f.		.	.
30	12.2		154	13.74
31	12.4 ^{hor}		151	13.91
32	12.8		150	14.30
33	12.8 12.8	12.80 00	150	14.30
34	13.1 12.8	12.95 12	150	14.45
35	13.2 13.2	13.20 00	151	14.71
36	13.5 13.5	13.50 00	155	15.05
37	13.7 13.5	13.60 11	158	15.18
38	l.f.		.	.
39	f.		.	.

Ch. P.C.

54

Thursday August 5, 1915

Scale R

Series 455

looped.

mc 7905

Dg cont.

Differ. Inv.

alt. -18

g h
sc.1 sc.2 sc.1 sc.2

Cu. Magn

1 t.h.
80
2 8.4 9.0 11 78
15 -1.10 6.80

Edge. Inv. out of focus?

3 t.h.
4 9.6 9.6 00 9.6 -1.47 8.13
5 8.6 9.2 9.05 1.2 t.h. -1.33 7.72
6 8.4 8.5 8.6 1.0 8.3 8.3 -1.22 7.38

7 t.h.

8 t.h.

9 t.h. 9.7 t.h. ^{.49 .21}
-1.53 8.27

10 10.4 10.25 2.1 10.1? -1.63 8.62?

11 10.3 t.h. -1.64 8.66

12 11.6 11.5 1.1 11.4 -1.95 9.55

13 11.7 11.65 1.0 11.6 -1.99 9.66

14 11.6 11.65 0.1 11.7 -1.99 9.66

15 12.1 12.15 2.0 12.2 -2.10 10.05

16 12.1 12.10 0.0 12.1 -2.08 10.02

17 12.4 12.35 0.1 12.3 -2.14 10.21

18 12.8 12.95 2.1 13.1 -2.30 10.65

19 13.3 13.35 2.0 13.4 -2.32 11.03

20 13.5 13.50 0.0 13.5 -2.33 11.17

21 14.0 14.00 0.0 14.0 -2.32 11.68

22 ±

Ch. F.C.

Thursday August 5, 1915

Cand.

Scale R.

Series 455

helped.

mc 7906			Carte		13 ^h - 21.5		Diff. Im.		alt. + 04 P.C.				
sc.1	sc.2	sc.2	Cu	sc.1	sc.2	sc.2	sc.2	sc.2	Cu	Magn			
1 Q				8.6	t.p.	-1.29	7.61	9.3	-1.75	7.55			
2 B.				10.2	10.2	10.20	0.0	-1.62	8.58	10.4	-2.14	8.26	
3 B.				10.6	10.4	10.50	1.1	-1.70	8.80	11.1	-2.33	8.77	
4 5.9 5.6			3.21	9.11	11.2	11.1	11.15	0.1	-1.87	9.28	11.6	2.48	9.12
5 6.3			2.99	9.59	11.8	11.7	11.75	0.1	-2.00	9.75	12.5	-2.70	9.80
6 6.3			2.99	9.59	11.8	12.2	12.00	2.2	-2.06	9.94	12.2	t.p.	
7 7.4 Q.			2.63	10.33	12.4	12.5	12.45	0.1	-2.16	10.29	13.2	-2.82	10.38
8 8.1	8.1	8.25	2.2	10.72	13.2	13.4	13.30	1.1	-2.32	10.98	14.0	-2.91	11.09
9 8.4	8.4	8.40	0.0	10.83	13.4	13.5	13.45	0.1	-2.33	11.12			
10	9.6		2.05	11.65									
11	10.4		1.81	12.21									
12	10.6		1.76	12.36									
13	10.6		1.76	12.36									
14	11.4		1.63	13.03									
15	11.7		1.60	13.30									
16	11.9	12.1	12.00	1.54	13.54								
17	12.4	12.3	12.35	1.52	13.87								
18	12.4	12.4	12.40	1.51	13.91								
19	13.2	13.2	13.20	1.51	14.71								
20	13.9	13.7	13.80	1.65	15.45								

Ch. P.C.

56

Thursday August 5, 1915

Cand

Scale R

Series 455 *topit*:

mc 7904		Carte		13.0 - 16.5		Diff. Im.		alt. -22		B.C.		
sc.1	sc.2	Cu.	g	h	sc.1	sc.2	Cu	sc.1	sc.2	Cu.	Magn	
1 B.		.	9.3	9.4	9.35	1.0	-1.40	7.95	10.1	2.03	8.07	
2 B.		.	9.5	9.4	9.45	1.0	-1.44	8.01	10.3	2.10	8.20	
3 B.		.	10.4	10.4	10.40	0.0	-1.67	8.73	11.3	2.39	8.91	
4 ⁶⁹ 6.6		2.88	9.78	11.6	11.6	11.60	0.0	-1.98	9.6 ² x	12.4	-2.67	9.73
5 ⁷⁸ 7.5 B.		2.60	10.40	12.5	12.6	12.55	1.0	-2.20	10.35	13.4	-2.87	10.53
6 ⁸⁶ 8.3 8.4	8.50	1.2 2.40	10.90	13.3	13.2	13.25	1.0	-2.32	10.93	v.p.	.	.
7 ⁸⁹ 8.6 8.9	8.90	0.0 2.30	11.20	13.4	13.4	13.40	0.0	-2.33	11.07	14.0	-2.91	<u>11.09</u>
8 9.6		2.05	11.65	±.	t.p.	.	.	.	.	.	.	.
9 10.4		1.81	12.21							m.s.	.	.
10 10.7		1.75	12.45							.	.	.
11 11.1		1.68	12.78							.	.	.
12 11.3		1.66	12.96							.	.	.
13 11.4		1.63	13.03							.	.	.
14 11.3		1.66	12.96							.	.	.
15 11.8		1.59	13.39							.	.	.
16 11.9 11.8	11.85	1.58	13.43							.	.	.
17 12.4 12.5	12.45	1.51	13.96							.	.	.
18 12.6 12.6	12.60	1.50	14.10							.	.	.
19 13.4 13.4	13.40	1.54	14.94							.	.	.
20 13.7 13.6	13.65	1.59	15.24							.	.	.

bl. F.C.

Thursday August 5, 1915

Scale R

Series 455

Lapfield

Band.

Mc 1909			Curtis		13 + 25° diff. in.		Art. + 20		J.C.			
sc.1	sc.2	sc.3			sc.1	sc.2	Cu.	Magn	90	sc.2	Cu	Magn
1 Q.					8.7	8.6						
					8.4	8.5	-1.24	7.41	8.1		-1.65	7.35
2 Q					8.9	8.9	-1.28	7.62				
					8.6	8.6			10.2		-2.08	8.12
3 Q.					9.4	9.2	-1.40	7.90	10.3		-2.10	8.20
4 5.5			3.34		10.6	10.6	-1.72	8.88	11.2 11		-2.36	8.84
5 5.2			3.12		11.2	11.2	-1.88	9.32	12.4 2 hour		-2.62	9.88
6 6.4			3.04		11.4	11.5	-1.93	9.52	12.3 hour		-2.65	9.65
7 6.1			3.02		12.30 11	12.4	-2.13	10.17	13.3 3 hour		-2.84	10.46?
8 7.3			2.75		13.35 10	13.4	-2.33	11.02	J.			
9 8.0	Q.		2.54									
10 8.5	8.8	8.80 0 0	2.32									
11	9.8		2.00									
12	9.5		2.10									
13	10.1		1.90									
14	10.5		1.80									
15	10.7	10.9	1.75									
16	11.2	11.5	1.64									
17	11.6	11.7	1.60									
18	12.2	12.2	1.53									
19	12.8	12.6	1.50									
20	m.s.	m.s.										

58

Tuesday August 10, 1915

Scale R.

Series 159-

Curry, Sheet No. 205

9.32

mc 4258

Pole-

mc 4263

P.C.

P.C.

4263

sc.1 sc.2 sc.2

sc.1 sc.2 sc.2

sc.1 sc.2 sc.2

sc.1 sc.2

Diff.

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79

81

88

92

94

93

10.1

10.4

10.6

11.4

12.2

12.3

12.6

12.6

13.2

13.3

13.6

13.6

13.8

13.8

13.8

13.8

13.8

13.8

13.8

13.8

13.8

5.65

6.65

7.15

7.65

7.95

8.50

8.25

9.25

10.00

10.40

10.60

11.45

12.25

12.60

13.25

13.60

13.80

13.85

13.85

13.85

13.85

13.85

13.85

13.85

13.85

0.1

0.1

3.2

0.1

0.5

10.10

0.8

0.5

1.1

0.0

0.0

1.0

12.12

12.60

13.12

13.60

13.85

13.85

13.85

13.85

13.85

13.85

13.85

13.85

13.85

3.37

2.90

2.71

2.65

2.70

2.58

2.58

2.38

2.06

2.02

2.13

1.89

1.75

1.73

1.57

1.51

1.81

1.81

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11.5

12.1

12.4

13.1

13.4

14.0

14.0

14.0

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Tuesday August 10, 1915

Scale R.

Series 159.

Copied.

mc 4259

RW monoc.

6 29+89

B.C.

alt. +15

Image hazy.

	sc.1	sc.2	sc.3	Cu.	Magn	sc.1	sc.2	sc.3	Cu	Magn
ca B.						10.4	10.3	10.35	2.11	8.24
a ^{5.6}										
d ^{5.3}				3.29	8.89	11.2	11.1	11.15	2.38	8.77
f ^{5.8}				3.14	9.24	11.4	11.4	11.40	2.44	8.96
B.						10.5	10.4	10.45	2.45	8.80
e ^{6.9}						Scratched.				
f ^{6.6}				2.90	9.80	sup. .				
g ^{6.6}				2.90	9.80					
g ^{7.4}				2.76	10.16	12.5			2.72	9.78
h ^{8.1}										
h' ^{8.1}	8.0	8.05	1.0	2.62	10.67	13.4			2.80	10.60
h' ^{8.4}	8.1	8.4	0.0	2.55	10.95	13.6			2.79	10.81
k		9.5		2.30	11.80	m.s.				
l		9.8		2.22	12.02					
l'		10.2		2.11	12.31					
l''		10.6		2.02	12.62					
m		11.1		1.92	13.02					
n		11.6		1.81	13.41					
o		12.2	2.00	1.69	13.89					
p		12.4	2.00	1.66	14.06					
q		12.7	1.1	1.62	14.22					
r		12.7	1.0	1.61	14.36					
s		13.5	0.0	1.55	15.05					

Var. B.

11.1

-2.35 8.75

C.S. for Eros for m.H.	512	9.6		2.27	11.87
	513	10.3		2.09	12.39
	514	10.1		2.14	12.24
	515	8.1	10.6	1.2 2.02	12.62
	516	7.8	7.8	7.95 2.64	10.59

f.

beh. F.C.

60

Tuesday August 10, 1915 -

Scale R.

Series 159 -

Exp. 10.

mc 4.260

Nova Gem. #2.

L 48 + 32.3

Qc.

alt. +22

	sc.1	sc.2	sc.3	Cu	Magn	sc.1	sc.2	sc.3	Cu
k Q.				.		⁷⁶ 13 Q.			.
l Q.				.		⁷⁸ 1.5 1.8 780 00			-1.37 6.43
m Q.				.		⁸⁸ 8.5 8.8 880 00			-1.65 7.15
n Q.				.		9.5 9.6 955 10			-1.88 7.67
o Q.				.		9.6 9.6 960 00			-1.89 7.71
p Q.				.		10.3 10.3 1030 00			-2.10 8.20
q Q.				.		10.4			-2.14 8.26
r Q.				.		10.1			-2.24 8.46
⁵⁶ s 5.3				3.29	8.89	11.4			-2.44 8.96
⁵⁵ s 5.2				3.31	8.81	11.4			-2.44 8.96
t Q.				.		11.1			-2.51 9.19
⁶³ t ² 6.0				3.10	9.40	³ 13.1 13.8			-2.63 9.47
⁶⁶ u 6.3				2.99	9.59	12.2			-2.67 9.53
⁷¹ w 6.8				2.85	9.95	12.8			-2.78 10.02
⁷⁸ ⁷⁵ v 1.5 1.5 780 00				2.68	10.48	13.2			-2.80 10.40
⁷⁶ ⁷⁷ y 1.3 1.6 Q 775 21				2.69	10.44	13.4			-2.80 10.60
⁸⁰ z 1.1 1.1 785 21				2.66	10.51	13.8			-2.78 11.02
⁸⁴ 2 8.1 8.4 840 00				2.55	10.95	13.9			-2.77 11.13
⁸⁷ 3 8.4 8.5 860 11				2.51	11.11	n.s.			.
4	9.3			2.35	11.65				
5	10.2			2.11	12.31				ch. f.c.
6	10.1			2.00	12.70				
7	11.4			1.85	13.25				
8	11.2			1.85	13.25				
9	11.4			1.85	13.25				
10	11.8			1.76	13.56				

Tuesday August 10, 1915

Scale R.

Series 159.

copied.

mc 4260

cont.

alt. +22

rc.1 rc.2 rc.3

η	11.7	179	13.49
too close to Nova η	.	.	.
θ	12.3	168	13.98
K	12.60 0 0 12.6 12.6	162	14.22
λ	12.70 0 0 12.7 12.7	161	14.31
μ	13.35 0 0 13.4 13.3	155	14.90
ν	13.50 0 0 13.5 13.5	156	15.06
ξ	13.80 0 0 13.8 13.8	167	15.47
\circ	m.s.	.	.
π	m.s.?	.	.
Nova	7.5 1.5	268	10.48

Ch. F. C.

62

Tuesday August 10, 1915

Scale R

Series 159. copied.

mc 4261

RR Gemini.

7 15 +31.1

P.C.

act. +22

	sc.1	sc.2	sc.3		sc.1	sc.2	
α B.					11.2	11.2	11.20 0 0 -2.39 8.81
β B.					11.6	11.8	11.70 1 1 -2.51 9.19
γ B.					12.2	12.1	12.15 0 1 -2.65 9.50
a	7.6 9.3			2.71	10.31	13.1	13.1 13.10 0 0 -2.80 10.30
b	7.7 1.4			2.70	10.40	13.1	13.1 13.10 0 0 -2.80 10.30
c	8.5 8.3 8.4	8.60 2.02	2.51	11.11			
d	8.5 8.7 8.2 8.4 8.4	8.53 0.21	2.78	11.01			
d'	9.2		2.39	11.59			
d'	9.7		2.24	11.94			
e	10.4		2.06	12.46			
e'	10.7		2.00	12.70			
f	11.2		1.89	13.09			
g	11.6		1.81	13.41			
h	12.30 1.1 12.4 12.2		1.68	13.98			
k	12.55 0.1 12.6 12.5		1.64	14.19			
l	13.10 0.0 13.1 13.1		1.55	14.65			
m	13.35 1.0 13.3 13.4		1.55	14.90			
n	13.80 1.1 13.7 13.9		1.67	15.47			
Var.	10.1		2.14	12.24			

ch. F.b.

64

Tuesday August 10, 1915
Friday

Scale R.

Series 159. copied.

mc 4262 cont.

B.C.

Att. +20

	ac.1	ac.2	ac.2	Cm.		ac.1	ac.2
k	7.8 1.5 1.8			2.67	10.47	13.2	2.80 10.40
l	8.4	7.9	8.00 1 1	2.62	10.62	m.s.	
m	8.7 8.4	8.5	8.60 1 1	2.51	11.11		
n	8.8 8.5	8.8	8.80 0 0	2.48	11.28		
o		10.1		2.14	12.24		
p		10.6		2.01	12.61		
q		10.8		1.98	12.78		
r		10.8		1.98	12.78		
r & x		11.3		1.88	13.18		
u		11.1		1.91	13.01		
t	11.60 1 L 11.7	11.5		1.81	13.41		
Imm. peculiar.							
w	t.h. t.h. 12.30 1 1						
x	12.2 12.4 12.50 1 1			1.68	13.98		
y	12.6 12.4 12.35 1 0			1.65	14.15		
z	13.3 13.4			1.55	14.90		
z'	m.s. 13.5	m.s.					
Var.	13.4	ws.		1.55	14.95		

Ch. F. C.

Thursday
Wednesday August 12, 1915

Scale R.

Series 442-

Curve, Sheet No. 205

9:03

mc 7755

Pole-

mc 7760

P.C.

mc
7760

sc.1 sc.2 sc.2 sc.1 sc.2 sc.2

sc.1 sc.2 sc.1 sc.2 Diff.

5 B.

84 815 79 166

6

89 885 85 174

8

10.5 1050 105 -227

9

Diff 11.2 1115 111 -232

10

64

62

630 11 272 114 1150 116 -248

11

61

59

680 00 275 121 1210 121 -255

12

68

68

735 23 251 124 1240 124 -254

13

65

65

790 10 10 240 129 1300 131 -270

14

76

71

820 84 845 10 80 83 830 00 838 07 08 227 134 1340 134 -275

15

80

78

888 22 23 220 136 1360 136 -252

16

85

83

945 10 195

17

92

87

960 00 203

18

90

84

1030 11 176

19

91

86

1060 11 182

20

94

86

1110 11 163

21

95

84

1175 01 259

22

96

86

1222 07 08 165

23

104

102

1282 08 07 151

24

101

105

1312 07 08 157

25

112

110

1348 02 03 163

26

118

117

1390 10 10 176

27

1215 10

1230 00

1400 00

28

1201 122

123 123

1400 00

29

1297 129

128 128

1400 00

30

1305 21

1220 00

1400 00

31

1320 129

132 132

1400 00

32

1350 00

1345 10

1400 00

33

135 135

1380 00

1400 00

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138 138

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Thursday
Wednesday, August 12, 1915

Scale R

Series 442-

mc 7755

Diffraction Inv.

	mc 7760		g		h		Diff
	g	h	g	h	g	h	
5	7.9	7.9	7.9	7.9	7.9	7.9	-1.26
6	8.6	8.6	8.6	8.6	8.6	8.6	-1.37
8	10.1	10.1	10.1	10.1	10.1	10.1	-1.59
9	10.6	10.6	10.6	10.6	10.6	10.6	-1.67
10	11.3	11.3	11.3	11.3	11.3	11.3	-2.16
11	11.7	11.7	11.7	11.7	11.7	11.7	-2.03
12	12.2	12.2	12.2	12.2	12.2	12.2	-2.04
13	12.4	12.4	12.4	12.4	12.4	12.4	-2.10
14	13.1	13.1	13.1	13.1	13.1	13.1	-2.73
15	13.4	13.4	13.4	13.4	13.4	13.4	-2.32
16	13.4	13.4	13.4	13.4	13.4	13.4	-2.05
17	13.7	13.7	13.7	13.7	13.7	13.7	-2.22
18	f	f	f	f	f	f	.
19							.
20							.

beh. f.e.

1031

Thursday
Wednesday August 12, 1915

Cand.

Scale R

Series 442-

copied.

mc 7756

124 K-

Differ. Int. Att. -19 B.C.

	sc.1	sc.2	sc.3	Cur.	Magn.	g	h		sc.2	
1	59 56			2.85	8.75	10.9	11.1	11.00	1-194	9.06
2	79 16			2.40	10.30	12.6	12.7	10.65	0.1-220	10.45
3	81 1.8			2.36	10.46	12.6	12.8	12.70	1-220	10.50
4	64 6.1			2.76	9.16	11.3	11.4	11.35	1-200	9.35
5	88 9.2			2.06	11.26	13.4	13.5	13.45	0.1-219	11.26
6	8.5 9.0	8.90	1-1	2.14	11.04	13.3	13.4	13.35	1-220	11.15
7	9.6			1.94	11.54	±	±			
8	10.4			1.78	12.18					
9	10.6			1.73	12.33					
10	11.15 11.2	0.1 11.1		1.64	12.79					
11	11.15 11.1	2.0 11.2		1.64	12.79					
12	11.20 11.2	0.0 11.2		1.63	12.83					
13	12.15 12.2	0.1 12.1		1.56	13.71					
14	12.55 12.6	0.1 12.5		1.56	14.11					
15	12.90 12.9	0.0 13.9		1.58	14.48					
16	13.25 13.3	0.0 13.2		1.61	14.86					

ur. unit.
O. Aug. 27, 1915.

Star 4 brighter than 3 on orig. pl. also.

Ch. F.C.

68

Thursday
Wednesday August 12, 1915

Card.

Scale R -

Series 442 -

Copied.

mc 7759			C 5	9 + 15°	alt. +17	
ac.1	ac.2	ac.2		ac.1 ac.2		
1 B.				8.5	-1.77	.03
					-1.67	7.74
2 B.				10.1	-2.15	7.95
3 B.				9.9	-2.07	7.81
4 5.1				10.1	-2.15	7.95
4a B.				10.6	-2.28	8.32
5 B.				11.1	-2.38	8.72
6 B.				11.2	-2.40	8.80
7 5.9			2.85	8.75	11.1	-2.38
8 6.7			2.71	9.41	11.1? hor	-2.48
9 6.5			2.68	9.48	partly sup.	
10 7.6			2.49	10.09	12.5	-2.61
11 7.3			2.55	9.85	12.3	-2.59
12 7.0			2.42	10.22	12.6	-2.63
13 7.5			2.41	10.26	12.9	-2.64
14 7.9	7.85	1.0	2.38	10.38	tip.	
14a 8.1	8.4	8.55	2.23	10.75	13.3	-2.65
15 8.7	8.5	8.60	2.22	10.82	hor. near.	
16 9.1	9.1	9.10	2.09	11.19	13.9	
17 9.4			2.00	11.40		
18 9.9			1.88	11.78		
19 10.3			1.80	12.10		
20 10.4			1.78	12.18		
20a 10.6			1.73	12.33		
21 10.9			1.69	12.59		
22 11.3			1.61	12.91		
23 11.4			1.60	13.00		

Ch. F.C.

Thursday
Wednesday August 12, 1915-

69

Scale R.

Series 442-

mc 7759

cont.

sc 2

24 ~~24~~ 11.6

1.59

13.19

25 12.4

1.56

13.96

26 12.5

1.56

14.06

27 ~~12.6~~
11.9 w.s.

1.56

14.16

28 13.2 12.8
13.40 0 0

1.59

14.59

28a 13.4 13.4
13.45 1 0

1.62

15.02

29 13.5 13.4
13.80 0 0

1.64

15.09

29a 13.8 13.8

1.71

15.51

Im. faint

30 t.f. t.f.

31 f.

32

ch. f.c.

Thursday
Wednesday August 12, 1915

Scale R -

Series 442.

copied

mc 7759

cont

Differ. Im.

alt. +17

Out of focus.

	g	#	h		
	sc.1	sc.2	sc.3	sc.4	sc.5
1	7.5	7.80	7.8	7.5	-1.21 6.59
2	8.9	9.25	8.2	9.3	-1.52 7.73
3	t.h.		t.h.		
4	8.9		t.h.		-1.50 7.70
4a	9.86	9.60	9.6		-1.60 8.00
5	10.4	10.50	10.6		-1.83 8.67
6	10.5	10.60	10.7		-1.85 8.75
7	10.5	10.60	10.7		-1.85 8.75
8	11.20	11.30	11.4		-2.00 9.30
9	11.20	11.35	11.5		-2.01 9.34
10	11.6	11.70	11.8		-2.08 9.62
11	11.6	11.65	11.7		-2.08 9.57
12	t.h.		12.1		-2.15 9.95
13	12.4	12.40	12.4		-2.18 10.22
14	12.65	12.70	12.9		-2.20 10.50
14a	12.6	12.65	12.7		-2.20 10.45
15	13.1	12.95	12.8		-2.20 10.75
16	13.4		12.9	too close to vibration	-2.19 11.21
17	13.9		t.h.		-2.14 11.76
18	4.		t.h.		
19	4.				
20					
20a	ms.				

ch. F.C.

72

Friday, August 13, 1915

Scure

Series 442 -

mc 4760

mc 4766

	g	h
	sc.1	sc.2
5	7.6 7.3 8.4	7.6 7.0 8.3
6	8.1	8.3
8	9.7	9.5
9	10.5	10.4
10	10.9	10.8
11	11.5	11.6
12	11.9	11.9
13	12.4	12.3
14	12.8	12.5
15	13.3	13.3
16	13.5	14.0
17	14.0	
18	m.s.	
19		
20		
23		
25		
26		
27		

	g	h
	sc.1	sc.2
5	7.7 7.4 8.4	7.5 7.2 8.4
6	8.1	8.4
8	9.8	9.8
9	10.6	10.5
10	11.1	11.1
11	11.4	11.4
12	11.6	11.6
13	12.4	12.4
14	12.7	12.5
15	13.4	13.4
16	13.4	13.4
17	13.5	13.9
18	14.0	14.0
19		
20		
23		
25		
26		
27		

Lch. F.B.

10:50

Friday August 13, 1915

Card.

Scale R

Series 442

copied.

mc 7762

Carte

10ⁿ - 10°

Diff. Im. alt. - 07 Oc.

sc.1 sc.2		g h		sc.2	
1	B.	86.89	8.8	9.00	1.1 - 134 7.66 9.6 - 190 7.70
2	B.	86.2	8.8	10.1	10.1 10.1 10.10 0.0 - 159 8.51 10.5 - 2.19 8.31
3	6.0	3.03	9.33	10.8	10.1 10.75 0.1 - 176 8.99 11.6 - 2.43 9.17
4	6.4	2.91	9.61	11.2	11.4 11.30 1.1 - 188 9.42 not comp. with scale.
5	7.1	2.71	10.11	11.7	12.2 11.95 3.2 - 200 9.95 12.6 - 2.61 9.99
6	8.0	8.0 8.15 1.2 2.50	10.65	12.5	12.1 12.60 1.1 - 210 10.50 13.4 - 2.70 10.70
7	8.6	8.9 8.90 0.0 2.29	11.19	13.4	13.4 13.40 0.0 - 220 11.22 t.p.
8	9.2	2.18	11.48	13.6	t.p. 2.18 11.42 m.s.
9	10.4	1.90	12.30	m.s.	
10	10.7	1.84	12.54		
11	10.9	1.80	12.70		
12	11.5	1.70	13.20		
13	11.7	1.68	13.38		
14	11.7	1.68	13.38		
15	12.1	1.65	13.75		
16	12.25 0.1	1.64	13.89		
17	12.2 12.3	1.64	14.09		
18	12.45 1.0	1.64	14.69		
19	12.5 12.4	1.67	15.07		
20	13.05 2.1	1.79	15.69		

ch. P.C.

74

Friday August 13, 1915

Card.

Scale R

Series 442.

Leptid.

mc 446 \$4			Carte	10 + 46.5	Differ. Im.		att. + 22 C.C.	
sc.1	sc.2	sc.3	Cm	g	h	Cm.	sc.2	Cm.
1	Q.		.	94	96	9.50	1.1	1.44
2	Q.		.	9.5	9.5	9.45	0.1	1.42
3	Q.		.	11.1	11.3	11.20	1.1	1.87
4	6.5		2.87	9.67	11.2	11.4	11.30	1.1
5	14		2.63	10.33	12.3	12.4	12.35	1.0
6	16	Q.	2.58	10.48	12.5	12.5	12.50	0.0
7	8.6	8.1	8.80	1.1	2.31			
8	9.4		2.14	11.54	13.7	14.1	13.90	2.2
9	10.5		1.88	12.38	f.	m.s.	.	.
10	11.2		1.74	12.94				
11	11.4		1.72	13.12				
12	11.5		1.70	13.20				
13	11.7		1.68	13.38				
14	11.9	0.0	1.66	13.56				
15	12.3	0.0	1.64	13.94				
16	12.5	0.0	1.64	14.14				
17	13.4	2.1	1.65	14.90				
18	13.4	0.0	1.67	15.07				
19	13.7	t.p.	1.74	15.44				
20	f.	t.p.	.	.				

Ch. F. C.

Interrupted.
at 9.45 10:00

Friday August 13, 1915

Card.

Scale R

Series 442-

copied.

mc 7765

Carte

8 + 65°

Diff. Im.

act. +14 Sc.

sc1 sc2 sc3

sc2 sc3

sc3

1	Q.			11.3	11.2	11.25	10.187	9.38	11.6	-2.44	9.16
2	Q.			10.9	10.9	11.00	11.181	9.19	11.6	-2.44	9.16
3	^{76 75} 13.12	75.5	0.1	2.69	10.24	12.2	12.2	12.20	0.0	2.04	10.16
4	^{71 73} 6.84	72.0	1.1	2.76	9.96	11.8	12.1	11.95	2.1	2.00	9.95
5	⁷⁴ 7.1	Q.		2.71	10.11	12.3	12.3	12.30	0.0	2.06	10.24
6	⁸³ 8.0	8.1	8.20	1.1	2.49	10.69	12.6	13.0	12.80	2.2	2.13
7	⁸⁷ 8.4	8.1	8.70	0.0	2.34	11.04	13.4	13.4	0.0	2.19	11.21
8		9.1		2.07	11.77	14.0				2.07	11.93
9		9.8		2.04	11.84						
10		10.4		1.90	12.30						
11		10.6		1.85	12.45						
12		10.6		1.85	12.45						
13		10.9		1.80	12.70						
14	^{11.40} 11.4	11.4		1.71	13.11						
15	^{11.90} 11.9	11.9		1.66	13.56						
16	^{12.00} 11.9	12.1		1.65	13.65						
17	^{12.55} 12.6	12.5		1.63	14.18						
18	^{12.45} 12.5	12.4		1.63	14.08						
19	^{12.85} 12.9	12.8		1.63	14.48						
20		1.									

left for safe meas.

Ch. F.C.

76

Saturday August 14, 1915

Scale R.
9.55

mc 8484

Pole.

Series 489-

Curve, Sheet No. 206

mc 8484				mc 8489				P.C.				8489			
Re.1 Re.2 Re.3				Re.1 Re.2 Re.3				Re.1 Re.2 Re.3				P.C.			
5															
6															
8															
9															
10	6.9			6.8											
11	7.9			7.8											
12	8.1	8.0	8.20 2.2	8.5	B.										
13	8.1	9.0	9.00 0.0	8.5	8.5	8.65 2.1	8.82 1.8 1.7	1.48							
14		9.4			9.5										
15		10.1			9.9										
16		10.4			10.4										
17		10.6			10.6										
18		11.3			11.3										
19		11.7			11.6										
20		11.8 11.9	11.85		11.9	12.1 12.00	11.92 0.7 0.8	0.81							
23		12.3 12.5	12.40		12.4 12.4	12.40 12.40	00 00	0.94							
25		12.8 12.9	13.1 13.00		13.3 13.4	13.35 13.18	1.8 1.7	0.69							
26		13.5 13.5	13.50		13.4 13.5	13.45 13.48	0.2 0.3	0.85							
27		13.6 13.6	13.60		14.0? 14.0		13.80 2.0 2.0	0.89							
28		1. 1.			1. 1.										
29															
30															
31															

del. P.C.

Saturday August 14, 1915

Scale.

mc8484

	g	h
	sc.1	sc.2
5	8.1	8.25
6	8.9	9.35
8	10.6	10.60
9	11.5	11.50
10	11.9	11.85
11	12.5	12.45
12	12.8	12.80
13	13.1	13.10
14	13.5	13.55
15	14	14
16		
17		
18		
19		
20		

Series 489.

Diff. In

	g	h
	sc.1	sc.2
8489.		
9	8.1	8.25
10	9.3	9.30
11	10.5	10.55
12	11.5	11.45
13	11.7	11.75
14	12.4	12.45
15	12.8	12.80
16	13.4	13.40
17	13.5	13.50
18	14	14
19		
20		

Ed. F.C.

78

Saturday August 14, 1915

Cand.

Scale R

Series 489

copied.

mc 8485

Carte

14 + 4.5°

Diff. Dm.

Alt. +11

	sc.1	sc.2	sc.3	Cu.	Magn.	sc.2	sc.3	Cu.	P.C. Cu.
* 1									*
2	5.9					10.9		2.56 8.34	11.5 - 3.12 8.88
3	7.8							2.88 9.42	11.5 - 3.12 8.88
4	7.5	Q.						2.89 9.51	13.2 ^{floor} - 3.48 9.82?
5	8.1	8.1	0 0	2.52	1.64 9.74	10.62	12.7	2.90 9.80	13.7 - 3.52 10.18
6	8.5	8.6	8.70 1	2.34	1.46 10.16	11.04	13.4	2.90 10.55	n.s.
7		9.4		2.14	1.24 10.64	11.54	13.4		
8		10.4		1.90	1.03 11.43	12.30	n.s.		
9		10.5		1.88	1.00 11.50	12.38			
10		11.4		1.71	0.86 12.26	13.11			
11		11.6		1.69	0.83 12.43	13.29			
12		11.8		1.66	0.81 12.61	13.46			
13		12.1		1.65	0.80 12.90	13.75			
14		12.2		1.64	0.80 13.00	13.84			
15		12.6 12.6		1.62	0.80 13.40	14.22			
16		13.55							
17		13.6 13.5		1.70	0.86 14.41	15.25			
18		13.6 13.6		1.72	0.87 14.52	15.37			
19		14.0 13.9		1.76	0.89 14.74	15.61			
20		f. f.							

Ch. F. C.

* Plate broken - no. 1 is too near break to meas., P.C. damaged.
Images elongated.

Saturday, August 14, 1915

Card

Scale R

Series # 489-

lopped.

*mc 8486

Carte

14^k - 23.5

alt. -46

Diff. Im.

P.C.

	pc 1	pc 2	pc 2	Cu.	Magn	pc 2	pc 2	Cu.	pc 2
1	7.1 6.8			2.4	9.14	t.p.	t.p.		t.p.
2	7.4 7.1			1.92	9.32	t.p.	12.2	-2.86	9.34
3	7.8 7.5			1.76	9.56	12.4 [?]	t.p.	-2.89	9.51
4	8.3 8.3	8.4	8.50	1.52	10.02	13.2	t.p.	-2.91	10.29
5		9.1		1.17	10.87	t.p.	t.p.		
6		10.4		1.03	11.43				
7		10.5		1.00	11.50				
8		11.1		0.91 1.09	12.49				
9		11.6		0.84	12.44				
10		t.p.							
11		12.2		0.80	13.00				
12		12.3 [?] how		0.80	13.10 [?]				
13		12.3		0.80	13.10				
14		12.5 [?] how		0.80	13.30				
15		13.20 1.1			14.02				
16		13.3 13.1		0.82	13.91				
17		13.5 [?] 13.5		0.85	14.35				
18		t.p. t.p.							
19		t.p. t.p.							
20		13.9 [?] 14.0		0.90	14.85				

Ch. F. C.

* All images elongated, very difficult to compare some with scale.
"Try to measure". H.S.L.

80

Saturday August 14, 1915

Card

Scale R

Series 489-

loopid.

mc 8487

130 K.

Att. 78

P.C.

	sc.1	sc.2	sc.3	Cu		sc.	Cu.
1	^{6.7} 6.4			3.20	8.90	12.1 - 3.28	8.82
2	^{6.5} 6.5			2.16	8.96	12.3 - 3.31	8.99
3	^{7.7} 7.4			1.80	9.50	t.p.	
4	^{8.4} 8.1	8.5	8.45	0.1	9.98	13.5 - 3.50	10.00
5	^{8.8} 8.5	8.8	8.80	0.0	10.22	\$	
6	^{9.2} 8.9	9.1	9.15	0.1	10.47		
7		10.4		1.03	11.43		
8		10.4		1.03	11.43		
9		9.7		1.16	10.86		
10		10.7		0.96	11.66		
11		11.9?		0.81	12.71?		
12		11.9		0.81	12.71		
13		^{11.85} 11.9	11.8	0.81	12.66		
14		^{12.35} 12.5	12.2	0.80	13.15		
15		^{12.65} 12.7	12.6	0.80	13.45		
16		^{13.15} 13.2	13.1	0.82	13.97		
17		^{13.20} 13.3	13.1	0.82	14.02		
18		^{13.65} 13.7	13.6	0.87	14.52		

ch. P.C.

Star 9 is brighter than 807.

Saturday August 14, 1915

Scale 12

Series 489- copied.

mc 8481

130 K

cont.

g

h

alt. -18

	sc.1	sc.2	sc.1	sc.2	Cur.	Magn.
1	11.6	11.55	0.1	11.5	2.71	8.84
2	11.9	12.0	0.1	12.1	2.83	9.17
3	12.4	12.40	0.0	12.4	2.89	9.51
4	13.3	13.35	0.0	13.4	2.91	10.47
5	13.4	13.40	0.0	13.4	2.91	10.49
6	13.5	13.50	0.0	13.5	2.90	10.60
7	±			m.s.		
8						
9						
10						
11						
12						
13						
14						

Ch. F.C.

82

Monday August 16, 1915

Scale R

Series 489-

Curve, Sheet No. 207

9.45

mc 8495⁸⁹

Pole.

mc 8495

P.C.

sc.1 sc.2 sc.2

sc.1 sc.2 sc.1 sc.2 Diff.
86
8.3
los nearly up

5

9.75 1.0 9.8 -2.64

6

11.6 11.65 0.1 11.7 -3.42

8

9

Diff. 12.2 12.25 0.1 12.3 -3.42

10

7.10 3.3 1.92 12.3 12.30 0.0 12.3 -3.28

11

7.5 7.9 7.6 13.1 t.h. -3.55

12

8.2 8.0 8.10 1.1 8.3 13.4 13.25 2.1 13.1 -3.39

13

8.6 8.1 8.80 1.1 8.9 8.95 15.15 1.35 f. f.

14

9.86

9.45 1.2 1.20

15

10.1

9.95 2.1 1.13

16

10.6

10.50 1.1 0.90

17

10.1

10.65 0.1 0.98

18

11.4

11.25 1.2 0.81

19

11.9

12.1 12.00 11.78 23.22 0.64

20

12.3

12.3 12.30 12.18 13.12 0.55

23

12.6

12.6 12.60 12.58 03.02 0.76

25

13.5

13.5 13.50 13.30 20.20 0.57

26

13.7

13.7 13.70 13.72 03.02 0.61

27

13.7

13.7 13.70 13.70 1.2 0.99

28

f. f.

f. f.

29

f. f.

f. f.

30

Ch. P.C.

Monday August 16, 1915

Scale R.

Series 489-

mc84⁸⁹₄₈

Pole.

mf849⁵

	g	h	
	sc.1	sc.2	sc.1
	4.9	8.00	8.1
5	7.6	8.00	7.8
6	8.9	9.20	8.9
8		10.6	10.6
9		11.5	11.6
10		11.5	11.7
11		12.5	12.6
12		12.8	12.6
13		13.4	13.4
14		13.4 ⁶	13.5
15		f.	f.
16		f.	
17			
18			
19			
20			
23			
25			
26			
27			
28			

	g	h		Diff
	sc.1	sc.2	sc.1	sc.2
	8.4			
5	8.1		8.20	20 20 - 1.71
6	9.2 ⁵	0.1	9.22	02 03 - 2.11
8	10.6	10.65	10.7	10.62 02 03 - 2.39
9	11.6		11.58	03 02 - 2.75
10	12.1	12.10	12.1	11.55 05 25 - 2.83
11	12.4	12.50	12.6	12.52 03 02 - 2.97
12	12.8	12.75	12.7	12.72 02 03 - 2.86
13	13.5	13.55	13.5	13.48 08 07 - 3.18
14	13.5	13.55	13.6	13.55 00 00 - 2.90
15	f.		f.	

eh F.C.

12:31
many interruptions.

84

Monday August 16, 1915

Cand

Scale R

Series 489.

Isopied.

mc 8490

Bb

14 40 + 45°

P.C.

alt. +22

sc.1 sc.2 sc.3

Cu.

Magn

sc.1 sc.2

Cu. Magn

1 B.

9.0
8.7

-2.44 6.56 -2.32 6.69

2 B.

9.4? edge -2.44 6.56 -2.49 6.91?

3 B.

t.h.

4 B.

9.5 -2.59 6.56 -2.53 6.97

5 B.

10.5 -2.86 7.64 -2.95 7.55

6 B.

10.6 -2.89 7.71 -2.99 7.61

Do not meas. double.
H.S.L. August 16, 1915.

8 B.

11.3 -3.07 8.23 -3.21 8.09

9 B.

12.1 -3.27 8.83 -3.38 8.72

10 B.

12.6 -3.38 9.22 -3.42 9.18

11 B.

13.1 -3.45 9.65 -3.47 9.63

12 B.

13.4 -3.49 9.91 -3.48 9.92

13 B.

13.4 -3.49 9.91 -3.48 9.92

14 B.

t.h.

15 B.

16 B.

17 B.

18 B.

19 B.

20 B.

21 B.

22 B.

23 B.

24 B.

25 B.

26 B.

Monday August 16, 1915

Scale R

Series 489-

liquid.

mc 8490

B6 -

alt. 7.22

RC 2

Cm

27	12.3	12.4	12.35	10	0.80	13.15	0.65	13.00
28	12.7	12.7	12.70	00	0.80	13.50	0.66	13.36
29	12.7	12.7	12.70	00	0.80	13.50	0.66	13.36
30	13.3	13.3	13.30	00	0.83	14.13	0.60	13.90
31	13.4	13.4	13.40	00	0.84	14.24	0.72	14.12
32	13.7	13.6	13.65	10	0.87	14.52	0.77	14.42
33	±							
34	±							

Ident. uncertain

Ch. F. C.

Monday August 16, 1915.

Series 489-

Copied.

Mc 8490

B6

cont

Diff. Im.

Alt. +22

	g		h		Cu Magn		Cu Magn	
	sc.1	sc.2	sc.1	sc.2				
	8.3 ⁸⁶	8.55 ⁰¹	8.2 ⁸⁵		-1.81	974	-1.86	6.69
Out of focus.	2	t.f.	t.f.					
" " "	3	t.f.	t.f.					
" " "	4	8.5	t.f.					
" " "	5	t.f.	t.f.					
6	10.1	10.15 ¹⁰	10.2		-2.38	777	-2.30	7.85
7	dbl.		dbl.					
8	10.7	10.95 ³²	11.2		-2.57	838	-2.55	8.40
9	11.6	11.60 ⁰⁰	11.6		-2.72	888	-2.75	8.85
10	12.1	12.15 ¹⁰	12.2		-2.85	930	-2.88	9.27
11	12.3	12.40 ¹¹	12.5		-2.89	951	-2.91	9.49
12	12.6	12.55 ⁰¹	12.5		-2.90	965	-2.92	9.63
13	12.5	12.65 ¹²	12.8		-2.90	975	-2.94	9.71
14	13.4	13.40 ⁰⁰	13.4		-2.90	1050	-3.01	10.39
15	13.6 ^{? from}		t.f.		2.90	1070?	-3.01	10.59?
16	13.5 ^{? t.f.}		13.6 ^{? from}		2.90	1070?	-3.01	10.59?
17								
18								
19								
20								
21								

Ch. F. C.

Monday August 16, 1915

Card.

Scale R

Series 489-

topical.

mc 8491-

131K.

Differ. In.

alt. -18

P.C.

sc.1 sc.2

Cur. Magn

sc.1 sc.2
g h

sc.2

1 B.

11.5 11.4 11.45 10.28 8.76 t.p.

2 8.1

160 9.70

12.6 t.p. -298 9.76 13.8 -3.53 10.27

3 1.8

4 8.9

136 10.26

t.p. t.p.

5 8.6

10.9 10.99

6 9.9

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332

333

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88

Monday August 16, 1915

Cand.

Scale R -

Series 489 -

lophic

* me 8492

C8

15 + 15°

P.C.

alt. +16.

	sc.1	sc.2	sc.3		sc.1	sc.2	Qu.	Cu.	Magn.	Magn.
1 5 B.					99		368	2.70	7.80	7.82
2 6 B.					t.p.					
3 8 B.					11.1		301	3.14	7.96	8.09
4 9 B.					10.6?		289	2.99	7.61?	7.71?
5 10 B.					10.6		2.89	2.99	7.61	7.71
6 11 B.					11.1		301	3.14	7.96	8.09
6a B.					11.7		318	3.31	8.39	8.52
7 B.					12.3		331	3.40	8.90	8.99
8 B.					12.3		331	3.40	8.90	8.99
9 6.2 5.9					12.6		338	3.43	9.17	9.22
10 6.4 6.1					13.2		347	3.47	9.73	9.73
11 6.4 6.1					13.4		349	3.48	9.92	9.91
12 6.4 6.1					13.8		353			10.27
13 7.1 6.8				Qu Magn	t.p.					
14 t.p.										
15 7.5					m.s.					
16 8.1 t.p.										
17 t.p.										
18 8.1 7.1		9.1								
19 8.6										
20 8.2										
20a t.p.										
20b t.p.										
21 10.1										
22 n.f.										
23 11.1										

Monday August 16, 1915.

Scale R

Series 489-

Lopind.

mc 8492

C8-

alt. +16

	sc.2			Cm. Magn
24	11.2	0.90	13.10	0.78 11.98
25	t.f.	.	.	.
25a	t.f.	.	.	.
26	12.5	0.80	13.30	0.65 13.15
27	12.9	0.80	13.70	0.66 13.70 ⁵⁶
27a	28 13.5	0.85	14.35	0.73 14.35 ²³
28	t.f.	.	.	.
29	t.f.	.	.	.
30
31
32
33
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35

Ch. F. C.

Plate poor. Images not comp. with scale.

* many stars ~~has~~ are hazy on southern side of the image.
 "Leave out doubtful measures." H. S. L. Aug 16, 1915.

Interrupted 5m.

90

Monday August 16, 1915

Scale R

Series 489-

looped.

me 8492		C8 cont.		Differ. Im.		Alt. +16
g	h					
sc.1	sc.2	sc.1	sc.2	Cu. Magn.		
1	8.9 8.6	t.p.		.7 -1.9x 6.96	3	
2	t.p.	t.p.		.	.	
3	10.6	t.p.		.4 -2.49 8.16		
4	t.p.	t.p.		.	.	
5	9.9 10.00 L 1	10.1		.26 .74 -2.34 7.86		
6	10.5 10.50 0 0	10.5		0 0 -2.48 8.04		
7	11.4 11.50 L 1	11.6		1 -2.72 8.89		
8	t.p.	t.p.		.	.	
9	11.7	t.p.		.8 .2 -2.75 8.95		
10	13.1?	t.p.		.11 -2.99 10.28?		
11	v.p.	v.p.		.	.	
12	13.1	t.p.		.11 -2.99 10.28		
13	t.p.	t.p.		.	.	
14	13.4 13.40 0 0	13.4		.3 .1 -2.90 10.59	3	
15	±	±		.	.	
16				.	.	
17	±	±		.	.	
18				.	.	
19				.	.	

"Leave out all doubtful measures" H.E.L. Ch.F.C.

Interrupted by Miss Wilbur

Monday August 16, 1915

Card.

Scale R

Series 489.

Copied.

mc8493			Carte		15 + 39.5°		Diff. In.		alt + 22.0 c.	
sc.1	sc.2	sc.3					g	h		
							sc.1	sc.2	sc.1	sc.2
1 B							46	74	78	
2 B							13	1.1 7.50 1.1	7.5	
3 B							86	8.1 8.65 0.1	188	7.7
4 B							sc.2	sc.2	6.88	9.2
5							9.8	10.1 9.95 2.1	2.4	7.1
6							10.9	10.8 10.85 1.0	7.64	10.8
7									11.1	3.05
8									3.18	7.5
9									3.31	7.86
10									3.48	7.86
11									3.48	7.86
12									3.48	7.86
13									3.48	7.86
14									3.48	7.86
15									3.48	7.86
16									3.48	7.86
17									3.48	7.86
18									3.48	7.86
19									3.48	7.86
20									3.48	7.86

Ch. F. C.

Monday August 16, 1915

Cand.

Series 489

copied

mc 8494

m₁₃.

Ref. Seq. *

Ref. Seq. *	±	sc.1 sc.2 sc.3			Q _u	Diff. In.		alt. +22 J.C.		Mag _u	sc.2		
		sc.1	sc.2	sc.3		sc.1	sc.2	Cu.	Mag _u				
1	B					86			69				
						8.3	8.5	8.55 0.1	18.6	6.74	t.p.		
2	B					sc.2	sc.2		29	81			
						10.1	10.1	10.10 0.0	23.6	7.74	t.p.		
3	B								2	3			
						10.8	10.9	10.85 0.1	25.5	8.32	11.7	31	39
												3.8	8.52
4	B.									79			
						11.4	11.6	11.50 1.1	27.4	8.84	12.3	40	0
												3.84	8.98
5	6.6 B.								6	4			
						29.4	1.96	8.86 8.94	11.6	11.6	11.60 0.0	27.2	8.88
												12.5	42
												3.86	9.14
6	t.p.								90	9.0			
						12.2	12.4	12.30 1.1	28.5	9.42			
7	t.p.												
						t.p.	t.p.						
8	t.p.								4	1			
						12.7	12.6	12.65 1.0	29.8	9.75			
9	7.9 1.6	1.8	7.85	1.0	1.74	16.8	9.53	9.59 t.p.	13.1				
									29.9	10.22	14.0	3.46	10.54
10	9.8?					11.4	11.1	10.91? 10.94?			m.s.		
11	t.p.												
12	11.4					0.87	0.75	12.15 12.27					
13	11.6					0.83	0.71	12.31 12.43					
	12.25 0.1												
14	12.2 12.3					0.80	0.65	12.90 13.05					
15	t.p.												
16	t.p.												
	13.40 0.0												
17	13.4 13.4					0.84	0.71	14.11 14.24					
	13.50 0.0												
18	13.5 13.5					0.85	0.74	14.24 14.35					
	13.90 0.0												
19	13.9 13.9					0.89	0.86	14.76 14.79					
20	f.												

Ch. F.C.

* Images very much elongated

Interrupted.

Monday August 16, 1915 -

copied.

mc 8+94

m13.

	sc.1	sc.2	Cu	Magn		Cu	Magn
a							
b		11.7	0.82	12.52		0.70	12.40
c		12.5	0.80	13.30		0.65	13.25
d		12.6	0.80	13.40		0.65	13.25
e		12.6	0.80	13.40		0.65	13.25
f		13.1	0.81	13.91		0.68	13.78
g		13.2	0.82	14.02		0.69	13.89
h		t.f.	.	.		.	.

Ch. S. C.

94

Wednesday September 8, 1915.

Sheet No 274

Scale R

Remeasures of Orig. Seq. with New Seq. for Region near Scut Sol.

10:05

mc 5694.

Blue Near Scut. Sol.

B.C.

sc.1 sc.2

Diff. Magnitude

sc.1 sc.2 sc.2

Diff.

Diff. Cum Magn

Former Seq.

1 = 01 B

2 = 02 B

3 = 03 B

4 = 04 B

5 = 05 56⁵⁹6 = 06 63⁶⁶07 73⁷⁶ B08 80⁸³ 8.2 8.25 1009 83⁸⁶ 8.5 8.45 21010 89⁹² 9.2 9.20 00

011 94

012 10.3

013 10.4⁶

014 10.8

015 11.1

016 11.3 11.3 11.30 00

017 11.7 11.7 11.70 00

018 11.7 11.7 11.70 00

019 12.5 12.6 12.55 20

020 13.3 13.3 13.30 00

New Seq.

01 = 1

02 = 2

03 = 3

04 = 4

05 = 5

8.2

Wednesday September 8, 1915

Scale R

Remeasures -
mc 5694

near Suet Sph. cont.

P.O.

	sc.1	sc.2	sc.2	Cu	Magn	sc.1	sc.2	sc.2
06 = 6	77							
7	74			230	10.00	12.70 L ¹		
8	85					12.6	12.8	- 3.00 9.70
8	82	84	845 10	211	10.56	13.50 1 L		
9	87					13.6	13.4	- 2.81 10.69
9	84	85	860 1 L	206	10.66	13.6 10		
10	87					13.7	13.6	- 2.71 10.94
10	84	86	865 10	205	10.70	13.7 0 0		
11	89					13.7	13.7	.
11	86	91	90 1 L	195	10.95	f.		.
12		93		188	11.18			
12a		11.2		151	12.71			
13		10.5		168	12.13			
14		11.4		149	12.89			
14a		10.6		161	12.21			
14b		11.5		148	12.98			
15		11.5		148	12.98			
16		12.2		143	13.63			
16a		11.9		144	13.34			
17		12.5		142	13.92			
17a		11.9 00						
17a		11.9 11.9		144	13.34			
17b		12.3 01						
17b		12.4 12.3		142	13.77			
17c		12.5 01						
17c		12.2 12.3		143	13.68			
18		13.15 01						
18		13.2 13.1		142	14.57			
19		13.46 01						
19		13.4 13.5		142	14.87			
20		f.						
21		f.						
22		f.						
23								

* Two stars marked 17c, of which the right star was marked by H.S.L. The other marked by some one else was the star measured. H.S.L. Feb. 23, 1916.

96

Wednesday September 8, 1915-

Scale R.

~~10.25~~

Remeasures of Orig. Bl. Seq.

MC 5722

Blue near Cent Sol.

P.C.

sc.1 sc.2 sc.3

sc.1 sc.2 sc.3

Diff.

1=01 B.

7.6¹⁹7.8^{8.1}8.0^{8.1}

8.1

-1.84

2=02 B.

8.4⁹⁰

9.1

9.05

0.1

-2.45

3=03 B.

10.7

10.7

10.70

0.0

3.03

4=04 B.

11.8

11.9

11.85

0.1

3.23

5=05 6.1⁶⁴

+2.46

12.5

12.4

12.45

0.1

3.59

6=06 7.0⁷³

2.30

13.2

3.60

7=07 7.8⁸⁰

1.90

13.7

3.80

8=08 8.4⁸⁷

1.82

14

9=09 8.5⁸⁸

2.11

wv. unit.

010

9.9

1.36

011

9.9

1.35

012

10.5

1.37

013

11.2

0.83

014

11.3

1.07

015

11.5

1.15

016

11.8

11.8

11.80

0.97

017

12.3

12.3

12.30

0.86

018

12.2

12.3

12.25

1.06

019

12.9

12.9

12.90

1.02

020

Scr. scr.

New Seq. 01 = 1

02 = 2
2a

03 = 3

04 = 4

05 = 5

9.6

Wednesday September 8, 1915.

Scale R

Remeasures of Orig. Seq.

mc 57221

near Cent. Sol.

P.C.

sc.1 sc.2

sc.1 sc.2

066

1 16 81

13.9

8 86 90

4.

9 81 92

10 96

11 95

12 104

13 11.1 10.8

14 11.7

15 12.2

16 12.6

17 12.9

18 13.4

12a 11.7

14a 11.3

16a 12.4 12.4

17a 12.7 12.6

17b 12.7 12.8

17c 12.9 12.8

19 14.0 14.0

20

21

22

14b 11.9

98

Thursday September 9, 1915.

Scale R Remeasures of Seq. for Region near Cent. Sph. cont

9-

mc5117

Blue.

Differ.
fr. mc90.

P.C.

ac.1 ac.2 ac.3

ac.1 ac.2 ac.3

1= 01 B.

76⁷⁹ 82 8.05 ± 2 -1.89

2= 02 B.

89⁹¹ 93 9.20 ± 1 -2.60

3= 03 B.

109 11.1 11.00 ± 1 -3.33

4= 04 6.1⁶⁴

72.22

119 11.8 11.85 ± 0 -3.23

5= 05 7.1⁷⁴ B.

1.46

12.7 12.7 12.70 ± 0 -3.84

6= 06 7.6⁷⁹ 7.8 7.85 ± 0

1.75

13.1

07 8.5⁸⁸ 8.6 8.70 ± 1

1.20

13.7

08 9.5

1.03

09 9.8

0.96

010 10.5

0.76

011 10.6

0.65

012 11.1

0.77

013 11.6

0.43

014 11.7

0.67

015 11.9

0.75

016 12.2 12.3 12.25 ± 0.52

017 12.6 12.5 12.55 ± 0.61

018 12.7 12.6 12.65 ± 0.56

019 13.2 12.9 13.05 ± 0.87

020 13.7 13.6 13.65 ± 1.00

Near Seq.

01= 1

02= 2
2.2 B.

03= 3

04= 4

05= 5

9.7

Thursday September 9, 1915

Scale R

Remeasures of Seq. for Region Near Cent. 80.

mc 5777

Blue -

D.C.

sc.1 sc.2

ob = 6

1 8.5^{8.8} 8.7

8 9.5

9 10.1

10 10.3

11 10.4

12 10.7

12a ~~12~~ 12.213 ~~13~~ 11.614 ~~14~~ 11.714a ~~14~~ 11.7

14b 12.3

15 ~~15~~ 12.516 ~~16~~ 12.7

16a 12.6 12.7

17 k.p. 13.4?

17a 12.7 12.9

17b 12.8 12.7

17c 12.8 13.8

18 ~~18~~

19

20

21

22

23

24

25

13.7? ft.

9:25

Thursday September 9, 1915

Scale R

Remeasures of Region cont

Copied.

No corr. for alt. needed

	sc1	sc2	Diff	Av. Magn	
05 = 5			126		
06 = 6			917		
1	10.21		-124	-0.49	9.71
8	11.1		-101	-1.00	10.10
9	11.5 ⁴		-120	-1.16	10.24
10	11.5		-141	-1.20	10.30
11	10.45 10		0.19	-0.60	9.85
	13.10 00				
12	13.1 13.1		-244	-1.95	11.15
	12.75 01				
12a	12.8 12.7		-244	-1.78	10.97
	12.25 10				
13	12.3 12.2		-068	-1.58	10.67
14	t.p. f.				
	13.55 10				
14a	13.5 13.6			-2.12	11.43
14b	13.4 ² t.p.				
15	f.				
16	n.s.				
16a	n.s.				
17	n.s.				
17a	n.s.				

9:05

102

Friday September 10, 1915 -

Sheet 245

Scale R.

Remeasures cont.

q -

mc 5950

Region near Cent. Sol. ~~yellow~~

	sc.1	sc.2	Diff cu magn	sc.1	sc.2	sc.3	cu magn
1=01	B					Scr. scr.	
						10.60 00	
2=02	B					10.6 10.6	-4.34 6.26
	58					12.30 11	
3=03	55		1.58 1.60 7.40			12.2 12.4	-4.96 -4.93 7.27
	79					13.60 11	
4=04	1.6		0.48 0.54 8.44			13.7 13.5	-4.91 -4.95 8.65
	75					13.50 00	
5=05	1.2		0.76 0.76 8.26			13.5 13.5	-5.00 -4.96 8.54
6=06		9.5	-0.28 -0.26 9.24			n.s. n.s.	
7=07	89		0.06			f.	
	8.6						
8=08		11.3	-1.21				
9=09		11.2	-1.00				
010		11.3	-1.21				
		12.20 11					
011		12.3 12.1	-1.56				
		11.95 21					
012		11.8 12.1	-1.29				
		12.90 00					
013		12.1 12.9	-1.59				
		13.40 00					
014		13.4 13.4	-1.83				
		12.45 10					
015		12.5 12.4	-1.53				
016		t.h.					
017		f.					
018		f.					
019							
020							

New Seq

01 = 1

02 = 2

2a B.

03 = 3

04 = 4

11.3

-4.59 6.71

Friday September 10, 1915

Scale R-

Remeasures

cont-

Copied

me 5950

cont-

pc.1

Cu. Magn

05 = 5

06 = 6

7 10.2

-0.59 9.61

8 11.3

-1.14 10.16

9 11.4

-1.18 10.22

10 11.4

-1.18 10.22

11 10.6

-0.80 9.80

12 12.8^{12.80? 0.0} poor 12.8?

-1.70 11.10?

12a 12.6^{12.60 0.0} 12.6

-1.02 10.94

13 12.20^{1.1} 12.1 12.3

-1.49 10.71

14 13.65^{1.0} 13.7 13.614a 12.65^{0.1} poor 12.6 12.7

-1.64 11.01

15 13.35^{0.1} 13.4 13.3

-1.90 11.45

16 f.

16a

17

17a f.

17b f.

17c t. f.

Plate very poor, badly fogged on one end -

104

Friday, September 10, 1915

Sheet 246

Scale R

Remeasured cont.

Mc 5956 -

Region near Scut. Loh. *Yellow*

B.C.

9a:14

	sc.1	sc.2	sc.3	Diff	cu mag	sc.1	sc.2	sc.3
						11.70	00	
1: 01	B.					11.1	11.1	-5.58 -5.60 6.10
						12.25	10	
2: 02	t.p.					12.3	12.2	-5.96 -5.93 6.32
	87					14.10	00	
3: 03	8.4	8.5	8.60 11	-1.22	-1.22 7.38	14.1?	14.1?	-6.76 -6.77 <u>7.33</u>
4: 04		10.4		-2.02	-2.00 8.40			m.s.
5: 05		10.2		-1.94	-1.92 8.28			m.s.
6: 06		11.6		-2.38	-2.40 9.20			
		11.20 00						
07		11.2	11.2	-2.24				
		12.55 2.3						
08		12.8	12.3	-2.46				
		13.25 01						
09		13.2	13.3	-3.05				
		13.35 10						
010		13.3	13.4	-3.26				
		13.60 11						
011		13.1	13.5	-2.96				
012		m.s.	m.s.					
013		m.s.	m.s.					
014		f.	f.					
015								
016								
017								
018								
019								
020								

New Seq.

01=1

02=2

03=3

04=4

05=5

Friday September 10, 1915 -

Scale R -

Remeasures cont-

Copied

Mc 5956

Region

near Saut St.

No con. for alt needed

P.C.

sc.1 sc.2 sc.3

Qu.

Magn. sc.2

2a

70
6.1

.

13.4 - 6.49 6.91

0.6 = 6.2

1.

12.3

-2.65

9.65

8

def.?

.

.

9

13.3

-2.97

10.33

10

t.p.

.

.

11

12.2

-2.62

9.58

12

n.s.

.

.

12a

n.s.

.

.

13

13.8

-3.11

10.69

14

n.s.

.

14a

n.s.

.

14b

n.s.

.

15

16

16a

17

17a

17b

17c

106

Saturday September 11, 1915 -

Sheet 246

Scale R

Remeasured cont-

8:35

mc 5968

yellow

		92.14		B.C.	
	ac. 1 ac. 2	Diff.		ac. 2 ac. 2	
1 = 01				10.65 01	
2 = 02	B.			10.6 10.7	-4.53 -4.60 6.05
3 = 03	6.3 B.			11.40 00	
4 = 04	8.3			11.4 11.4	-5.11 -5.07 6.33
5 = 05	8.1			13.50 11	
6 = 06	10.5	0.78 0.78 7.38		13.6 13.4	-6.16 -6.14 7.36
7 = 07	8.4				
8 = 08	8.50 1.1	-0.12 -0.20 8.40		n.s.	
9 = 09	8.2				
10 = 10	8.30 1.1	-0.04 -0.09 8.31		n.s. n.s.	
11 = 11	10.5	-1.28 -1.26 9.24			
12 = 12	10.1	-1.14			
13 = 13	11.8	-1.71			
14 = 14	12.4	-2.20			
15 = 15	11.85 2.1				
16 = 16	12.0 11.7	-1.76			
17 = 17	13.15 0.1				
18 = 18	13.2 13.1	-2.51			
19 = 19	12.75 2.0				
20 = 20	12.1 12.8	-2.09			
21 = 21	n.s. n.s.				
22 = 22	n.s. n.s.				
23 = 23	13.50 2.1				
24 = 24	13.4 13.6	-2.58			
25 = 25	n.s. n.s.				
26 = 26					
27 = 27					
28 = 28					
29 = 29					
30 = 30					

New seq.

01 = 1

02 = 2

2a B.

12.4

-5.60 6.80

03 = 3

04 = 4

Saturday September 11-1915

Scale R

Remeasures

cont

Copied

mc 5968

No cor. for alt. needed.

	ac.1	ac.2		Cu.	Magn.
05=5					
06=6					
7	11.1	11.1	11.10 00	-1.58	9.52
8	12.1	12.2	12.15 10	-1.96	10.19
9	12.2	12.4	12.30 11	-2.01	10.29
10	12.3	12.2	12.25 10	-2.00	10.25
11	11.5	11.5	11.50 00	-1.68	9.82
12	13.5 ⁹ ?	13.9 ¹⁰ ?	13.90 00	.	.
12a	14.0 ⁹ ?	13.7 ¹⁰ ?	13.85 21	.	.
13	13.2	13.1	13.15 01	-2.40	10.75
14	f.	f.	.	.	.
14a	f.	.	.	.	.
14b	n.s.	.	.	.	.
15	n.s.	.	.	.	.
16	n.s.	.	.	.	.
16a	.	.	.	.	.
17	.	.	.	.	.
17a	.	.	.	.	.

Saturday September 11, 1915.

Scale R

Sheet 247

Remeasures cont.

mc 6252

Region near Scut sot - yellow

P.C.

ga:14

sc.1 sc.2 sc.3

Diff cu mag

sc.2 sc.3

1= 01 B.

10.65 1.0

10.7 10.6

- 4.53 -4.62 6.03

2= 02 B

11.20 1.1 11.1

11.3 10.9

- 4.91 -4.84 6.36

3= 03

50

4.7

2.38 2.32 7.32

12.65 1.0

12.7 12.6

- 5.31 -5.30 7.35

4= 04

81.8

7.9

8.00 1.1

0.38 0.42 8.52

7.

5= 05

76

7.3

B.

0.66 0.65 8.25

7.

6= 06

10.3

-1.08 -0.92 9.38

07

9.21

-0.24

08

11.55 1.0

11.5 11.6

-1.46

09

11.50 0.0

11.5 11.5

-1.30

010

11.55 1.0

11.5 11.6

-1.46

011

12.30 0.0

12.3 12.3

-1.66

012

12.60 0.0

12.6 12.6

-1.94

013

t.p. t.p.

13.89 1.1

014

13.7 13.9

-2.23

015

12.55 1.0

12.5 12.6

-1.63

016

13.90 0.0

13.9 13.9

-2.36

017

n.s.

018

n.s.

019

020

New Seq.

01= 1

02= 2

2a B.

11.9

-5.10 6.80

03= 3

04= 4

Saturday September 11, 1915

Scale R

Remeasured

cont-

Copied

mc 6252

Near Surt. Lot

No corr. for alt. wind

	Real sec. sec.	Cu.	Magn
05 = 5	.		
06 = 6	.		
1	10.6	-1.07	9.53
8	11.6	-1.47	10.13
9	11.8	-1.54	10.26
10	11.8	-1.54	10.26
11	10.70 00 10.7 10.7	-1.10	9.60
12	13.50 00 13.5 13.5	-2.06	11.44
12a	13.15 00 13.1 13.2	-1.95	11.20
13	12.65 01 12.6 12.7	-1.81	10.84
14	f. f.	.	.
14a	13.75 00 13.7 13.8? ^{per}	-2.08	11.07?
14b	14.0?	-2.14	11.86?
15	f.	.	.
16	n.s.	.	.
16a	n.s.	.	.
17	n.s.	.	.
17a			

9125

110

Tuesday
Wednesday September 14, 1915

Card.

Scale R

Series 491-

lophid.

*mc 8540

Carte -

12.0 - 23.5

	ac.1	ac.2	ac.2	Curve.	Magn. Diff.	Alt. -60	P.C.
1	39 36				8.5 8.1 7.6	890 Li - 137	7.53 9.6 - 1.98 7.62
2	67 64			2.94	9.64 tp tp 10.6		12.6 - 2.95 9.65
3	74 71			2.74	10.14 12.2 12.3 tp	12.25 0.1 - 2.50	9.75 tp.
4	79 76			2.60	10.50 tp tp 10.6		n.s.
5	81 78	8.0	8.05 1.0	2.54	10.59 tp 13.1	- 2.64	10.46
6	84 81	8.4	8.40 0.0	2.43	10.83		
7		9.8		1.89	11.69		
8		10.1		1.76	11.86		
9		10.2		1.72	11.92		
10		10.9		1.50	12.40		
11		11.4		1.34	12.74		
12		11.7		1.27	12.97		
13		tp.		.	.		
14		tp.		.	.		
15		tp. tp.		.	.		
16		12.25 0.1		.	.		
17		12.2 12.3		1.13	13.38		
18		12.50 1.1		.	.		
19		12.4 12.6		1.10	13.60		
20		tp. tp.		.	.		
		13.80 1.1		.	.		
		13.7 13.9		12.9	15.09		
		f. f.		.	.		

Ch. F.C.

*Images of ft class poor - do not compare with scale.

Tuesday September 14, 1915

Scale R-

Series 491-

Plot, Sheet No. 210.

mc 8541 - Pole -

mc 8545

P.C.

8545-
P.C.

	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3		sc.1	sc.2	sc.3		sc.1	sc.2	sc.3	
5															
6															
8															
9															
10	6.2			5.5											
11	5.9			5.2											
12	6.8			6.3											
13	6.5			6.0											
14	7.4			6.7											
15	7.1			6.4											
16	8.0			7.4											
17	7.7	1.5	7.5 2.3	7.1											
18	8.6			7.9											
19	8.3	8.2	8.4 2.2	7.6											
20	8.9			8.4											
21	8.6	9.1	9.0 1.1	8.1	8.5	8.45 0.1									
22				8.9											
23	9.6			9.1	9.15 0.1										
24				9.4											
25	9.9			9.4 ³											
26															
27	10.6			10.1											
28															
29	11.1			10.1	10.6	10.5 1.0	10.88 2.2 2.3	1.54							
30	11.3														
31	12.2			11.1	11.8	11.45 3.4	11.38 0.8 0.7	1.35							
32	12.25 0.1														
33	12.2 12.3			12.1	12.1	12.10 0.0	12.18 0.7 0.8	1.16							
34	12.65 1.0														
35	12.7 12.6			13.1	12.7	12.70 2.2	12.78 1.3 1.2	1.09							
36	13.40 1.1														
37	13.3 13.5			13.2	13.1	13.15 0.1	13.28 1.2 1.3	1.05							
38	13.55 2.1														
39	13.4 13.7			t.p.	t.p.		13.55 2.1	1.14							
40	13.80 1.1														
41	13.7 13.9			t.p.			13.60 2.1	1.31							
42															
43															
44															
45															
46															
47															
48															
49															
50															

Ch. F.C.

112

Tuesday September 14, 1915 -

Scale B

Series 491 -

Mc 8541				Pre- Diff. In-			
g		h		g		h	
ac1	ac2	ac1	ac2	ac1	ac2	ac1	ac2
7.6	180 00	7.8	1.5	7.2	120 00	7.2	
5	7.5	180 00	1.5	6.9	120 00	6.9	7.50 30 30 -1.01
8.4	8.1	8.40 00	8.4	8.1	8.10 00	8.1	8.25 15 15 -1.14
8	9.9	10.05 12	10.2	bp.	9.6	9.82 23 22	-1.59
9	10.7	10.90 22	11.1	10.6	10.65 01	10.7	10.78 12 13 -1.95
10	11.4	11.45 01	11.5	11.1	11.10 00	11.1	11.28 17 18 -2.26
11	11.9	11.90 00	11.9	tp	tp	11.90 2	-2.85
12	12.4	12.40 00	12.4	12.2	12.30 11	12.4	12.35 05 05 -2.49
13	13.1	13.10 00	13.1	13.1	13.15 10	13.2	13.12 02 03 -2.82
14	13.3	13.30 00	13.3	13.1	13.20 11	13.3	13.25 05 05 -2.60
15	13.7	13.65 10	13.6	tp	13.6	13.62 03 02	-2.54
16	f		f	f	f		
17							
18							
19							
20							
23							

Ch.F.C.

Tuesday September 14, 1915.

Card.

Scale R-

Series 491-

Copied.

mc 8543

Carte

13 + 25°

Diff.

Alt. + 19 P.C.

pc.1 pc.2 pc.3

pc.2 pc.3

Cm. Magn. Alt. C. Magn.

1	B	.	8.9	8.9	890 00 - 1.36	754 9.5	1.92	7.58	
2	B	.	9.6	9.7	965 01 - 1.61	804 10.6	2.30	8.30	
3	B	.	9.7	9.6	965 10 - 1.61	804 10.6	2.30	8.30	
4	5.8	3.17	8.97	10.9	10.9	1090 00 - 2.25	885 11.6	2.65	8.95
5	6.3	2.98	9.58	11.6	11.6	1160 00 - 2.30	9.30 12.6	2.95	9.65
6	6.3	2.98	9.58	11.8	12.1	1195 21 - 2.42	9.53 12.7	2.97	9.73
7	6.3	2.98	9.58	th	th	.	th	.	.
8	7.6	2.69	10.29	12.5	12.4	1245 10 - 2.56	9.89 13.4	3.16	10.24
9	8.4	8.3	10.79	13.4	13.4	1340 00 - 2.62	10.78 3.	.	.
10	9.2	2.13	11.33	3	3	.	.	.	.
11	10.1	1.76	11.86	.	.	.	.	.	.
12	10.3	1.70	12.00	.	.	.	.	.	.
13	10.5	1.62	12.12	.	.	.	.	.	.
14	11.1	1.44	12.54	.	.	.	.	.	.
15	11.2	1.41	12.58	.	.	.	.	.	.
16	11.8	1.23	13.08	.	.	.	.	.	.
17	12.2	1.14	13.34	.	.	.	.	.	.
18	12.6	1.09	13.69	.	.	.	.	.	.
19	13.1	1.09	14.29	.	.	.	.	.	.
20	3	3	.	.	.	.	.	.	.

Ch. P.C.

114

Tuesday September 14, 1915-

Card.

Scale R

Series 491-

Copied.

mc 8544

129 K

Diff B.C.

Alt. -23

	RC.1	RC.2	RC.3	Cu.	Magn	RC.1	RC.2	Cu.	Magn
1	Q.					9.5	19.2	7.58	
2	5.7 5.4			3.19	8.89	t.p.			
3	5.8 5.5			3.17	8.97	t.p.			
4	6.9 6.6			2.90	9.80	t.p.			
5	8.1 8.1	8.21	8.30	2.48	10.78	n.s.			
6	8.4 8.4	8.8	8.75	2.31	11.06				
7		9.6	9.55	2.00	11.55				
8		10.2	10.16	1.74	11.89				
9		10.4	10.5	1.64	12.09				
10		10.5	10.5	1.62	12.12				
11		11.5	11.4	1.33	12.78				
12		12.2	12.12	1.17	13.32				
13	t.p.	t.p.							
14	t.p.								
15	t.p.								
16	t.p.								
17									
18									
19									

Ch. F.C.

Tuesday September 14, 1915

Scale R

Series 491-

- bipolar.

mc8544

129 K

Diff. In

g

h

alt. -23

	sc.1	sc.2	sc.1	sc.2	Cu.	Magn.
1	8.4	8.35'01	8.3	-12.0	7.15	
2	11.4	11.45'01	11.5	-22.4	9.21	
3	t.p.	.	t.p.	.	.	.
4	t.p.	.	t.p.	.	.	.
5	t.	.	t.	.	.	.

Ch. F.C.

Monday September 20, 1915

Scale R

Series 491-

mc85 45

Diff. In.

	g	h
	sc.1 sc.2	sc.1 sc.2
5	6.9 6.95 1.0	7.0
6	7.9 7.90 0.0	7.9
8	9.6 9.55 0.1	9.5
9	10.6 10.60 0.0	10.6
10	11.2 11.15 0.1	11.1
11	11.7 11.65 0.1	11.6
12	12.4 12.30 0.1	12.2
13	12.6 12.70 0.1	12.8
14	13.1 13.15 0.1	13.2
15	t.p.	13.5
16	13.8 13.90 0.1	14.0
17	f.	f.
18		
19		
20		
23		
25		

mc8551

	g	h	Diff
	sc.1 sc.2	sc.1 sc.2	
	7.0 7.00 0.0	7.0	
	6.7 7.00 0.0	6.7	6.98 03 02 - 0.49
	7.9 7.85 0.1	7.8	7.88 02 03 - 0.77
	9.5 9.45 0.1	9.4	9.50 05 05 - 1.27
	10.5 10.45 0.1	10.4	10.52 08 07 - 1.69
	10.8 10.95 0.1	10.1	11.05 10 10 - 2.03
	t.p.	t.p.	11.65 02 02 - 2.10
	12.1 12.10 0.0	12.1	12.20 10 10 - 2.34
	12.7 12.65 0.1	12.6	12.68 02 03 - 2.35
	t.p.	t.p.	13.15 02 02 - 2.50
	13.5 13.50 0.0	13.5	13.50 00 00 - 2.42
	f.	f.	13.90 02 02 - 2.50

Ch. F.C.

118

Monday September 20, 1915 -

Cand.

Scale R

Series 491-

leopard.

mc 8546		Carte		14 ^h + 4.5°		Diff. In.		att. 709 G.C.	
no. 1	no. 2							Cu.	Magn.
1 B.				86	t.p.	56	732.95	92	758
2 B.				104	10.1 10.25 21	214	8.46 106	230	8.30
3 46				116	11.7 11.65 01	268	9.34 126	295	9.65
4 6.6		Cu.	Magn.	83	t.p.	231			
5 6.3		2.98	3.23	9.58	t.p.				
6 6.8				6	12.4? t.p.	291	9.85 134?	317	10.23
7 6.5		2.92	3.16	9.92		255			
8 76		2.69	2.90	10.28	13.1 13.1 13.10 00	308	10.46 f.		
9 8.1	8.2			85	13.5	318	10.90		
10 8.5	9.1			9		260			
11 9.4		2.04	2.28	11.38	f.			Cu.	Magn.
12 10.3		1.70	1.95	68				1.87	7.63
13 10.1		1.55	1.81	25				2.28	8.32
14 11.2		1.40	1.64	51				2.96	9.64
15 11.2		1.40	1.64	84					
16 11.55 01		1.30	1.52	84				3.16	10.24?
17 11.6		1.26	1.49	13.07					
18 11.7? t.p.		1.10	1.29	13.19					
19 12.45 10		1.00	1.22	74					
20 13.30 00		1.00	1.22	52					
21 13.3 133		1.00	1.22	76					
22 13.50 21		1.00	1.22	146					
23 13.4 136		1.00	1.22						
24 t.p. t.p.									
25 f.									

Ch. F.C.

Monday, September 20, 1915

Card.

Scale R.

Series 491-

Copied.

mc 8547

Carte

14 - 23.5

Diffy. Inv.

alt. 53 P.C.

sc 2 sc 2

sc 2

* { 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20

sc 1 sc 2

Cu.

Mag.

sc 2 sc 2

sc 2

3.50

10.17

9.30

11.40 0.0

9.32

t.p.

3.07

10.04

9.16

t.p. t.p.

3.56

10.04

9.16

t.p. t.p.

3.14

10.49

9.63

t.p. t.p.

3.33

10.10

9.63

t.p. t.p.

2.89

10.10

9.63

t.p. t.p.

3.10

10.10

9.63

t.p. t.p.

2.94

10.44

9.63

t.p. t.p.

2.42

11.42

9.63

t.p. t.p.

2.24

11.74

9.63

t.p. t.p.

1.91

12.31

9.63

t.p. t.p.

1.88

12.38

9.63

t.p. t.p.

1.67

12.77

9.63

t.p. t.p.

1.67

12.77

9.63

t.p. t.p.

1.30

13.70

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

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9.63

t.p. t.p.

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t.p. t.p.

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t.p. t.p.

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t.p. t.p.

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t.p. t.p.

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t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

1.39

13.79

9.63

t.p. t.p.

* Remear Jan. 20 1916

sc 1 56

2 56

3 62

4 69

Evidently measures above are about a unit out.

Retain

* 5

89

8.6

2.47

2.56

11.37

Two stars on plate marked 5. both measured. Most northern measured above, southern measured here.

Images very poor, especially P.C. + diffy. Inv.

* Reject. R Only southern and fainter of 2 nos 5 retained.
 Reject meas. 7.2 above
 Ser. W.S.L. Jan. 1916 -

120

Monday September 20, 1915 -

Cand.

Scale R

Series 491-

b. p. d.

mc 8548

130 K -

14 08 - 15.2°

Diff. Im.

Att. -23 P.C.

sc.1	sc.2	Curve.	Magn	sc.2	sc.2	sc.2
55				1060°00		
1 52		3.59	9.09	10.6	10.6	-1.79 8.81
2 66		3.23	9.83	11.1	t.p.	-1.98 9.13
3 63		3.16	9.96	t.p.	t.p.	.
4 74		2.97	10.37	12.8	t.p.	-2.41 10.39
5 77		2.89	10.59	13.1	t.p.	-2.45 10.65°
6 79		2.82	10.72	t.p.	t.p.	.
7 88	9.21	2.37	11.47			
8 85	9.5	2.23	11.73			
9 85	8.5	2.55	11.20			
10 9.8		2.11	11.91			
11 11.00 2.2		1.71	12.71			
12 10.90 2.2		1.75	12.65			
13 10.9 11.1		1.78	12.56			
14 11.70 00		1.49	13.19			
15 12.15 01		1.34	13.49			
16 12.50 11		1.29	13.79			
17 12.70 00		1.24	13.94			
18 13.40 00		1.24	14.64			

Sch. P.C.

Monday September 20, 1915.

Copied on sheets
(circum. var.)

Card.

Scale R

Series 491-

Copied.

mc 8549		J Bootis		Diff. In.		alt. to P.C.	
sc.1	sc.2	Cu.		sc.1	sc.2	Cu.	Magn.
a	B	.	.	7.76	00.		
a'	B	.	.	1.7	7.7	-0.70	7.00
a''	B	.	.	7.85	7.0		
b	B	.	.	1.9	1.8	-0.76	7.09
b'	B	.	.	8.50	00.		
b''	B	.	.	8.5	8.5	-0.98	7.52
c	B	.	.	9.4	9.5	-1.34	8.11
c'	B	3.61	9.01	10.55	01.		
c''	B	3.46	9.36	10.6	10.5	-1.78	8.77
d	B	3.46	9.36	11.15	01.		
d'	B	3.14	10.44	11.2	11.1	-1.99	9.16
d''	B	3.14	10.44	11.55	01.		
e	B	3.06	10.16	11.6	11.5	-2.11	9.44
e'	B	3.06	10.16	12.55	01.		
e''	B	3.10	10.10	12.6	12.5	-2.38	10.17
f	B	3.10	10.10	12.5	t.p.	-2.37	10.13
f'	B	2.84	10.64	12.6	t.p.	-2.38	10.22
f''	B	2.84	10.64	13.75	10.	-2.47	11.35
g	B	2.56	11.16	13.9	13.8	-2.40	11.35
g'	B	2.56	11.16	13.9	13.8	-2.40	11.35
g''	B	2.50	11.25	13.9	13.8	-2.40	11.35
h	B	2.24	11.74	13.9	13.8	-2.40	11.35
h'	B	2.24	11.74	13.9	13.8	-2.40	11.35
h''	B	2.02	12.12	13.9	13.8	-2.40	11.35
i	B	1.86	12.36	13.9	13.8	-2.40	11.35
i'	B	1.67	12.77	13.9	13.8	-2.40	11.35
i''	B	1.53	13.08	13.9	13.8	-2.40	11.35
j	B	1.48	13.23	13.9	13.8	-2.40	11.35
j'	B	1.24	13.89	13.9	13.8	-2.40	11.35
j''	B	1.22	14.07	13.9	13.8	-2.40	11.35
k	B	1.22	14.07	13.9	13.8	-2.40	11.35
k'	B	1.22	14.07	13.9	13.8	-2.40	11.35
k''	B	1.22	14.07	13.9	13.8	-2.40	11.35
l	B	1.22	14.07	13.9	13.8	-2.40	11.35
l'	B	1.22	14.07	13.9	13.8	-2.40	11.35
l''	B	1.22	14.07	13.9	13.8	-2.40	11.35
m	B	1.22	14.07	13.9	13.8	-2.40	11.35
m'	B	1.22	14.07	13.9	13.8	-2.40	11.35
m''	B	1.22	14.07	13.9	13.8	-2.40	11.35
n	B	1.22	14.07	13.9	13.8	-2.40	11.35
n'	B	1.22	14.07	13.9	13.8	-2.40	11.35
n''	B	1.22	14.07	13.9	13.8	-2.40	11.35
o	B	1.22	14.07	13.9	13.8	-2.40	11.35
o'	B	1.22	14.07	13.9	13.8	-2.40	11.35
o''	B	1.22	14.07	13.9	13.8	-2.40	11.35
p	B	1.22	14.07	13.9	13.8	-2.40	11.35
p'	B	1.22	14.07	13.9	13.8	-2.40	11.35
p''	B	1.22	14.07	13.9	13.8	-2.40	11.35
q	B	1.22	14.07	13.9	13.8	-2.40	11.35
q'	B	1.22	14.07	13.9	13.8	-2.40	11.35
q''	B	1.22	14.07	13.9	13.8	-2.40	11.35
r	B	1.22	14.07	13.9	13.8	-2.40	11.35
r'	B	1.22	14.07	13.9	13.8	-2.40	11.35
r''	B	1.22	14.07	13.9	13.8	-2.40	11.35
s	B	1.22	14.07	13.9	13.8	-2.40	11.35
s'	B	1.22	14.07	13.9	13.8	-2.40	11.35
s''	B	1.22	14.07	13.9	13.8	-2.40	11.35
Var.	B	1.22	14.07	13.9	13.8	-2.40	11.35

* Error of unit in above
bh. F.C. measure. O. Jan. 31, 1916.

122

Monday September 20, 1915 -

Card.

Scale r

Series 491-

lospied.

	mc 8550	Bb	14 40 + 450		
			O.C.		Alt. 722
	pc + sc?	Cu.	sc + sc?	Cu.	Magn
1			8.1		
			1.8	-1.38	6.72
2 B			8.7		
			8.4	-1.59	7.11
3 B			8.7		
			8.4	-1.59	7.11
4 B.			8.7		
			8.4	-1.59	7.11
5			9.5	-1.87	7.63
6 B			10.2	-2.11	8.09
dbl. 7 B			dbl.		
8 B			10.6	-2.28	8.32
9 B.			11.7	-2.68	9.02
10	6.64	3.30	12.4	-2.91	9.49
11	6.66	3.16	12.6	-2.96	9.64
12	6.9	3.03	12.8?	-3.00	9.80?
13	6.8	3.06	13.1	-3.08	10.02
14	6.6	2.81	13.4	-3.17	10.23
15	6.1	2.72	13.9		
16	6.2	2.70	14.1		
17	8.1	8.15 0.1	10.85		
18	8.3	8.4 8.50 1.1	11.09		
19	8.5	8.5 8.65 2.1	11.20		
20	9.1	9.1 9.10 0.0	11.59		
21	9.8	9.8 9.85 0.0	11.91		
22	10.6	10.6 10.65 0.0	12.44		
23	10.8	10.8 10.85 0.0	12.58		
24	10.6	10.6 10.65 0.0	12.44		
25	10.9	10.9 10.95 0.0	12.65		
26	t.f.				beh. F.C.

Monday September 20, 1915

Scale R

Series 491-

copied.

mo 8550

B6

Alt. +22

	sc. 2	pc. 2	Cu.	Magn
27	11.6		151	13.11
28	12.3	12.4 12.35 10	131	13.66
29	12.5	12.4 12.45 10	129	13.74
30	12.7	12.7 12.70 00	124	13.94
31	12.7	12.8 12.75 10	123	13.98
32	13.4	13.3 13.35 01	122	14.57
33	t.f.	t.f.		
34				

Ch. F.C.

124

Monday September 20, 1915 -

Scale R

Series 491 -

Cepheid.

mc 8550

Diff. In -

alt. +22

	g	h		
	sc. 1 sc. 2	sc. 1 sc. 2	Cu.	Magn
1	7.7 7.70 0 0	7.7 7.4	-0.70	7.00
2	t.f.	t.f.	.	.
3	7.4 7.1	t.f.	-0.61	6.79
4	7.6 7.5	t.f.	-0.74	7.06
5	t.f.	.	.	.
6	8.7 8.4 8.85 1.2	9.0 8.1	-1.10	7.75
7	dbl.	.	.	.
8	10.2 10.25 0 1	10.3	-1.04	8.61
9	10.5 10.60 1 1	10.7	-1.79	8.81
10	11.1 11.30 2 2	11.5	-2.04	9.26
11	11.6 11.70 1 1	11.8	-2.16	9.54
12	12.1 12.10 0 0	12.1	-2.28	9.82
13	12.3 12.20 1 1	12.1	-2.30	9.90
14	12.9 12.85 1 0	12.8	-2.41	10.44
15	13.3 13.20 1 1	13.1	-2.46	10.74
16	13.1 13.10 0 0	13.1	-2.45	10.65
17	13.4 13.45 0 1	13.5	-2.47	10.98
18	13.5	f.	-2.46	11.04
19	f.	.	.	.
20	.	.	.	.
21	.	.	.	.

Ch. P. C.

Tuesday, September 21, 1915.

Scale 12

Series 441-

Plot. Sheet No. 211.

10 ⁰⁵

mc 7743

Pole.

mc 7748

Q.C.

mc 7748

	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	Diff.
5					79	8.1	79	8.1	79.5 05 05 - 1.46
6					86	9.0 2 2	86	9.0	9.00 10 10 - 18.9
8					104	10.5 10.45 0 1	104	10.4	10.42 03 02 - 2.19
9					113	11.3 11.30 0 0	113	11.3	11.30 00 00 - 2.47
10	6.4		6.4		11.5	11.5 11.50 0 0	11.5	11.5	11.50 00 00 - 2.48
11	6.9		6.9		12.0	12.0 12.0 12.3	12.4	12.35 0 0	12.40 00 00 - 2.80
12	7.1	Q.	7.1		12.5	12.5 12.5 12.5	12.5	12.50 0 0	12.50 00 00 - 2.64
13	8.1	8.00 1 1	8.1		13.1	13.1 13.1 13.1	13.1	13.10 0 0	13.10 00 00 - 2.60
14	8.4	8.5 8.60 1 1	8.4	8.3	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
15	9.4		9.4	8.9	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
16	9.5		9.5	9.5	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
17	10.2		10.2	9.8	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
18	10.4		10.4	10.3	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
19	10.9		10.9	10.6	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
20	11.3		11.3	10.9	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
23	11.9		11.9	11.8	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
25	12.50 00		12.50 00	12.45 0 1	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
26	12.5 12.5		12.5 12.5	12.4 12.5	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
27	12.65 10		12.65 10	12.30 0 0	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
28	12.7 12.6		12.7 12.6	12.2 12.9	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
29	13.35 10		13.35 10	13.20 0 0	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
30	13.3 13.4		13.3 13.4	13.2 13.2	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
31	13.45 10		13.45 10	13.85 0 1	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
32	13.5 13.4		13.5 13.4	13.8 13.9	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
33	13.85 10		13.85 10	14.00 0 0	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
34	13.9 13.8		13.9 13.8	14.0 14.0	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55
35	f. f.		f. f.	f. f.	13.2	13.2 13.2 13.2	13.2	13.20 0 0	13.20 00 00 - 2.55

Ch. P.C.

126

Tuesday September 21, 1915

Scale R -

Series 441-

mc 7743		Pole.	mc 7748		Diff. Inn.	
g	h		g	h		Diff
sc.1 sc.2 sc.1 sc.2	sc.1 sc.2		sc.1 sc.2 sc.1 sc.2			
8.1 8.0 1.1 7.9	8.1 8.0 1.1 7.9		7.8 7.5 1.1 7.4	7.8 12 13		-1.39
5 1.8 8.0 1.1 7.9	8.1 8.0 1.1 7.9		8.6 8.5 1.1 8.1	8.6 10 10		-1.49
6 8.4 8.0 0.0 8.4						
8 10.4 10.3 1.1 10.2			10.1 9.9 2.2 9.7	10.1 20 20		-1.87
9 10.7 10.7 0.0 10.7			10.6 10.5 0.1 10.5	10.6 08 07		-1.79
10 11.5 11.5 1.2 11.2			11.1 tp. 11.2 13 12			-2.21
11 11.7 11.6 1.1 11.5	11.5 w.s.		11.7 11.6 1.1 11.5	11.6 00 00		-2.05
12 12.1 11.8 3.2 11.6	11.6 w.s.		11.7 tp. 11.7 07 08			-1.92
13 12.4 12.5 1.1 12.6			12.1 12.2 1.1 12.3	12.3 15 15		-2.05
14 13.1 12.9 2.2 12.7			12.6 12.6 0.1 12.7	12.7 12 13		-2.13
15 13.4 13.4 0.0 13.4			13.2 13.2 0.1 13.3	13.3 08 07		-2.24
16 13.6 13.5 0.1 13.5			13.5 13.5 1.0 13.6	13.5 00 00		-2.15
17 14.0 tp. 14.0			14.0 14.0 0.0 14.0	14.0 00 00		-2.37
18 14.0 tp. 14.0						
19						
20						
23						

Ch. P. C.

Tuesday September 21, 1915

Gard.

Scale R

Series 441 - kopid

mc 7744

Carte

4^W - 10°

Differ. Imm. alt. 76 P.C.

	sc.1	sc.2	sc.2	Cm.	Magn	sc.1	sc.1	Cm.	Magn	sc.2	Cm.	Magn
1	Q					8.5	8.5	8.80 00 - 1.55	7.25	9.5 - 1.98	7.52	
2	Q					8.5	8.5	9.10 11 - 1.60	7.50	10.4 - 2.26	8.14	
3	6.5			2.53	9.33	11.1	11.1	11.10 00 - 1.92	9.18	tp.		
4	6.5			2.53	9.33	11.1	11.3	11.20 11 - 1.93	9.27	tp.		
5	7.6			2.32	9.92	tp	tp.			tp.		
6	7.6	Q.		2.25	10.15	12.3	12.3	12.30 00 - 2.08	10.22	13.1 - 2.56	10.54	
7	8.1	8.1		2.14	10.54	tp.	tp.			tp.		
8	8.5	8.1	8.75 01	2.04	10.79	tp.	13.1	13.10 02 - 2.19	10.91	13.6		
9	8.1	9.1	9.05 01	1.98	11.03	13.5	13.4	13.45 10 - 2.25	11.20	1.		
10		10.2	10.1	1.75	11.90	h.s.	h.s.					
11		10.1	10.2	1.75	11.90							
12		10.4		1.71	12.11							
13		10.1		1.68	12.38							
14		11.2		1.59	12.79							
15		11.2		1.59	12.79							
16		11.60 00		1.54	13.14							
17		11.65 1.0		1.53	13.18							
18		12.30 00		1.48	13.78							
19		12.90 2.2		1.45	14.35							
20		13.70 2.2		1.51	15.21							

Ch. F.C.

Tuesday September 21, 1915-

Scale R

Series 441-

copied

Cand.

mc 7744^b-Q₁

4 + 75°

act + 13

	AC.1	AC.2	AC.3	Cu.	Magn	AC.1	AC.2	Cu	Magn
1					9.0				
					8.1			1.81	7.19
2					9.1				
					8.8			1.85	7.25
3					9.1				
					8.8			1.85	7.25
4									
						9.5		1.98	7.52
4a									
						9.8		2.08	7.72
4b B									
						10.1		2.16	7.94
5 B									
						10.1		2.34	8.36
6 B									
						10.6		2.31	8.29
7									
						10.7		2.34	8.36
8									
						10.7		2.34	8.36
9									
						11.2		2.49	8.71
9a									
						11.6		2.58	9.02
9b									
						11.7		2.60	9.10
10									
				2.59	9.09	12.2		2.68	9.52
11									
				2.57	9.17	k.p.			
12									
				2.34	9.84	12.4		2.68	9.72
13									
				2.39	9.69	12.6		2.66	9.94
14									
				2.20	10.30	13.2		2.54	10.66
15									
				2.24	10.19	13.1		2.56	10.54
16									
				2.13	10.53	k.p.			
17									
				2.02	10.92	13.7			
18									
				1.98	11.03	f.			
19									
				1.93	11.13				
20									
21									
				1.80	11.70				
22									
				1.69	12.34				

Ch. F. B.

Tuesday, September 21, 1915

Scale R

mo 7746

a₁Series 441-
cont.

Copied

alt. 13

	sc. 2	sc. 2	sc. 2	Cu.	Magn.
23	11.1			1.61	12.71
24	11.3			1.58	12.88
25	11.1			1.52	13.22
26	12.1	11.9	12.00	1.50	13.50
27	12.6	12.6	12.60	1.45	14.05
28	12.6	12.6	12.60	1.45	14.05
29	13.5	13.4	13.45	1.44	14.89
30	±				
31	±				
2	11.4			1.56	12.96
27b		12.6		1.45	14.05

* Very dark during measures on this plate.

Ch. F. G.

130

Tuesday September 21, 1915

Scale 2

Series 441 - *loped.*

Mc 7746

a1 Diff. 2m.

alt 7.13

	g	h			
	sc.1	sc.2	sc.1	sc.2	Cu. Magn
1	8.7 8.4	8.60 1.1	8.5 8.2	-1.51	7.09
2	8.8 8.5	8.80 0.0	8.8 8.5	-1.56	7.24
3	tp.		tp.		
4	8.7 8.4	8.70 0.0 8.40 0.0	8.7 8.4	-1.53 -1.48	7.17 6.92
4a	tp.		tp.		
4b	tp.		tp.		
5	tp.		tp.		
6	10.4	10.40 0.0	10.4	-1.82	8.58
7	10.4	10.50 1.1	10.6	-1.84	8.66
8	10.3	10.35 1.0	10.4	-1.81	8.54
9	10.5	10.55 1.0	10.6	-1.86	8.69
9a	10.6	10.60 0.0	10.6	-1.86	8.74
9b	tp.		11.1	-1.92	9.18
10	tp.		11.3	-1.94	9.36
11	tp.		11.5	-1.97	9.53
12	sup?		12.2	-2.07	10.13
13	12.2	12.15 0.1	12.1	-2.06	10.04 ^{.09}
14	12.5	12.55 1.0	12.6	-2.11	10.49 ⁴
15	12.2	12.35 2.1	12.5	-2.09	10.26
16	12.8	12.95 2.1	13.1	-2.18	10.77
17	13.1	13.25 1.2	13.4	-2.22	11.03
18	13.4	13.40 0.0	13.4	-2.24	11.16
19	tp. 13.4		tp. 13.4		
20	tp.		tp.		
21	14.0		14.0	-2.34	11.66

near edge-

Ch. P.C.

Tuesday September 21, 1915

Card.

Scale R

Series 441-

Copied.

mc 441 47

Carte

5^h + 55°

Diff. Imm. alt +20 PC.

	pc.1	pc.2	pc.2		ac.2	ac.2		Cu.	Magn	ac.2	Cu.	Magn	
1	8.4				9.1	9.1	9.10 00	-1.60	7.50	9.5	-1.98	7.52	
2	8.5				9.4	tp.		-1.66	7.74	10.1	-2.13	7.97 ³	
3	8.6				10.6	10.6	10.60 00	-1.86	8.74	11.21	-2.49	8.71	
4	8.7			2.59	9.09	11.3	11.4	11.35 10	-1.95	9.40	11.7	-2.60	9.10
5	8.8			2.30	10.00	12.1	12.4	12.35 12	-2.08	10.17	12.8	-2.62	10.18
6	8.9	8.0	7.95 10	2.25	10.20	tp.	12.6	-2.12	10.48	13.21	-2.54	10.66	
7	8.3	8.1	8.65 01	2.08	10.73	13.1	12.8	12.95 12	-2.17	10.78	13.6		
8	8.5	8.8	8.80 00	2.03	10.83	13.4	13.4	13.40 00	-2.24	11.16	13.8		
9	8.9	9.1	9.15 01	1.94	11.09	±	±			±			
10	9.1			1.84	11.54								
11	9.9			1.79	11.69								
12	10.3			1.73	12.03								
13	10.5			1.70	12.20								
14	10.5			1.70	12.20								
15	10.6	10.6	10.60 00	1.69	12.29								
16	10.8	10.8	10.80 00	1.66	12.46								
17	11.21	11.4	11.30 01	1.59	12.89								
18	11.8	11.9	11.85 01	1.51	13.36								
19	12.5	12.4	12.45 02	1.46	13.91								
20	13.2	12.8	13.00 00	1.43	14.43								

Ch. F. b.

132

Thursday September 23, 1915

Scale 12

Series 500.

Plot, Sheet No. 211

10:45

Mc 8675

Pole.

Mc 8680

P.C.

P.C.

	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3		sc.1	sc.2	Diff.
5							almost sup.	8.7 8.4		-2.21
6								9.5 9.40 11	9.3	-2.29
8								10.1 10.95 3.2	11.2	-2.72
9							Diff	11.6 11.65 0.1	11.1	-2.82
10	6.5 6.2			6.4 6.1			6.45 1.0	2.57 11.9 11.55 1.0	11.8	-2.83
11	7.2 6.9			7.5 7.2			7.35 2.1	2.20 12.1 12.50 2.2	12.3	-2.95
12	7.7 7.6			8.2 8.1	8.0	8.10 1.1	8.00 10 10	18.6 13.4	sup?	-3.54
13	8.4 8.1	8.3	8.35 0.1	8.7 8.4	8.5	8.60 1.1	8.48 13.12	18.2 13.1	tp.	-3.40
14	8.8 8.5	9.0	8.90 1.1	9.1 8.8	9.4	9.25 1.2	9.08 18.17	15.7 +p.	13.7?	-3.05
15		9.6			9.6		9.60 0.0	1.48		
16		9.8			10.2		10.00 2.2	1.40		
17		10.3			10.4		10.35 1.0	1.28		
18		10.8			10.8		10.80 0.0	1.26		
19		11.4			11.4		11.40 0.0	1.02		
20		11.6			11.75 1.0		11.68 08.07	1.05		
23	12.25 1.0			12.25 0.1			12.25 00.00	1.09		
25	12.80 1.1			12.85 0.1			12.82 02.03	1.05		
26	13.40 0.0			13.20 0.0			13.30 10.10	1.03		
27	13.45 0.1			13.40 0.0			13.42 03.02	1.27		
28	13.7 13.6			tp tp			13.65 0.1	1.46		
29	f. f.			f					bh. f.c.	
30										
31										

Thursday September 23, 1915

Scale R

Series 500-

mc 8675		Pole.	mc 8680		
g h			g h		Diff.
sc.1	sc.2		sc.1	sc.2	
5	89 79		77 78		
6	86 89 00 89		74 75 10 75		782 08 07 - 1.33
8	103 1035 10		83 84 52 86		882 08 07 - 1.71
9	109 109		104 1045 01 10.5		1040 05 05 - 2.17
10	11.5 11.55 10 11.6		11.1 11.15 10 11.2		1102 12 13 - 2.19
11	12.1 12.15 10 12.2		11.4 11.4		1148 07 08 - 2.46
12	12.4 12.45 10 12.5		12.2 12.20 00 12.2		1218 03 02 - 2.63
13	13.2 13.20 00 13.2		12.6 12.45 21 12.3		1245 00 00 - 2.59
14	13.4 13.40 00 13.4		12.9 12.90 00 12.9		1305 15 15 - 2.75
15	13.7 13.70 00 13.7		13.2 13.30 11 13.4		1335 05 05 - 2.70
16	13.9 13.9		13.6 13.55 01 13.5		1362 08 07 - 2.54
17			13.7 13.65 10 13.6		1378 12 13 - 2.38
18			13.8 13.8		
19					
20					
23					
25					

Ch. F. C.

Thursday September 23, 1915.

Cand.

Scale R

Series 500-

bopind.

Mc 86.77

Carte

17^h - 2.5

Diff. Inn.

alt +03 P.C.

	sc.1	sc.2	sc.3	Cur.	Magn	sc.2	sc.3	Cur.	sc.2	Cur.	Magn
1	B.					10.4	10.4	10.40 00	-2.15	8.25	10.1 - 2.60 8.10
2	6.7					9.14	11.1	12.1	11.90 22	-2.55	9.35 12.4 - 3.08 9.32
3	6.4			2.44		9.20	11.9	12.1	12.00 11	-2.58	9.25 t.p.
4	6.8			2.40		10.09	13.1	t.p.	2.73	10.37	t.p.
5	8.2			1.89		9.90	12.5	12.1	12.60 11	-2.70	9.90 t.p.
6	7.9	B.		2.00		10.32	13.4	t.p.	-2.66	10.74	
7	8.5	8.5	8.65 2 i	1.72		10.65	13.5	t.p.	-2.62	10.88?	
8	8.8	9.0	9.05 10	1.60		10.83	13.7	14.0?	13.85 12		
9	9.1	9.3		1.53		11.62					
10	10.3			1.32		12.10					
11	10.5			1.28		12.35					
12	10.9			1.20		12.78					
13	11.2			1.15		13.22					
14	11.7			1.08		13.42					
15	12.2			1.02		13.78					
16	12.4	12.4	12.40 00	1.02							
17	12.7	12.7	12.70 00	1.02							
18	12.7	12.8	12.75 10	1.03							
19	def?	def?									
20	12.8	13.1	12.95 2 i	1.04							
21	14.0	t.									

Ch. P. b.

Thursday September 23, 1915

Card.

Scale R

Series 500 -

Copied.

		mc 8678		Carte		17 ^h - 16.5 -		Differ. Imm.		Alt. -24 30.	
		sc.1	sc.2	sc.2	Cm.	Magn	sc.2	sc.2	Cm.	Magn	sc.2
1	5	B					9.6	9.6	9.60	0.0	19.0
2	6	B					11.5	11.6	11.55	1.0	24.7
3	8	7.2			2.24	9.44	11.8	12.2	12.00	2.2	25.8
4	9	6.9			2.18	9.58	12.1	12.2	12.15	1.0	26.1
5	10	7.4			2.07	9.77	12.4	12.4	12.40	0.0	26.6
6	11	7.7			2.00	9.90	tf	tf			tf
7	12	7.9	B		1.71	10.41	13.1	tf			10.37
8	13	8.5	8.6	8.70	1.71	10.41	tf	tf			
9	14	8.8			1.53	10.83					
10	15	8.8			1.41	11.21					
11		9.3			1.28	11.78					
12		9.8			1.29	11.74					
13					1.28	11.78					
14					1.21	12.01					
15					1.14	12.44					
16					1.04	13.09					
17					1.02	13.27					
18					1.02	13.52					
19					1.02	14.68?					
20					1.34	14.89?					

Ch. F.C.

P.C. from.

136

Thursday September 23, 1915

Card.

Scale R

Series 500- copied.

*mc 8679		133 R	17 ^h	Diff. Jan.	Alt. -22	PC.
sc.1	sc.2	Cu.	Magn	sc.2	sc.2	Cu. Magn sc.1 Cu. Magn
1. B				103	10.1	1020 11 - 2.08 8.12 10.8 - 2.63 8.17
2. 76						
3. 13		2.00	7.00	124	12.4	1240 00 - 2.66 9.74 t.p.
4. 76						
5. 13	B.	2.00	7.00	124	12.6	1250 11 - 2.69 9.81 13.3 - 3.33 9.97?
6. 84						
7. 8.1	8.20	8.30 11	18.4	10.14	13.4	t.p. - 2.66 10.74 t.p.
8.						
9.	9.6	14.6	11.06	4	4	
10.	9.6	14.6	11.06	4	4	
11.	10.4	13.0	11.70			
12.	10.3	13.1	11.61			
13.	10.3	13.1	11.61			
14.	10.5	12.8	11.78			
15.	11.45	11.0	12.60			
16.	11.4	11.2	12.52			
17.	t.p.					
18.	12.4 12.5 12.45	10.2	13.47			
19.	11.6 11.8 11.70	10.8	12.78			
20.	12.3 12.2 12.25	10.2	13.27			
21.	12.4 12.6 12.50	10.3	13.52			
22.	13.1 13.2 13.15	10.9	14.24			
23.	13.4 13.4 13.40	11.9	14.59			
24.	13.5 t.p.	12.8	14.76?			

Ch. F. C.

*All Images on plate are slightly elongated - reject pl.?

12:06

Friday September 24, 1915-

Scale re-

Series 500-

mc 8680 cont. Pole

Diff. In.

	p		h		mc 8686.		h		Diff.
	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	
5	77	77	78	78	77	77	77	77	
6	86	89	86	89	87	87	87	87	
8		10.4	10.45	10.5	10.2	10.2	10.2	10.2	
9		11.1	11.10	11.1	10.9	11.0	11.1	11.05	
10		tp.		11.6	11.7	11.65	11.6	11.62	
11		12.4	12.40	12.4	12.1	12.15	12.2	12.28	
12		12.6	12.55	12.5	12.4	12.40	12.4	12.48	
13		12.8	12.80	12.8	12.9	12.90	12.9	12.85	
14		13.2	13.30	13.4	13.1	13.15	13.2	13.22	
15		13.6	13.60	13.6	13.6	13.50	13.4	13.55	
16		13.7	13.70	13.7	13.6	13.70	13.8	13.70	
17		±		±	±		±		
18									
19									
20									
23									
25									
26									

Ch. P. C.

11:54

Friday, September 24, 1915

Card

Scale R

Series 500

bopied.

mc 8681			n.g.c. 6523		18-244									
			Diff. Imm.		Att. -51 G.C.									
			g h											
sc.1	sc.2	sc.3	Cu.	Magn.	sc.2	sc.3	Cu.	Magn.	sc.2	Cu.	Magn.			
1	B		.		9.1	8.9	9.02	11.1	-174	7.21	9.6	-2.47	7.13	
2	B		.		t.p.	9.4			-187	7.53	10.3	-2.62	7.68	
3	⁶² 5.9		2.82		9.02	11.5	11.4	11.45	10.0	-243	9.02	12.1	-2.97	9.13
4	¹⁰ 6.1	B.	2.45		9.45	t.p.	11.1		-250	9.20	t.p.	.	.	
5	⁸⁴ 8.1	8.3	8.35	0.1	10.28	t.p.	13.3		-253	10.77	t.p.	.	.	
6		9.5	1.58		11.08	+	+		.	.				
7		9.8	1.50		11.30				.	.				
8		10.6	1.31		11.91				.	.				
9		10.1	1.29		11.99				.	.				
10		11.6	1.16		12.76				.	.				
11		12.1	11.2	11.45					.	.				
12		12.3	12.3	12.30	11.0				13.40					
13		12.3	12.5	12.40	11.0				13.50					
14		13.1	13.1	13.10	11.3				14.23					
15		13.4	13.5	13.45	11.9				14.64					
16														
17														
18														
19														
20														

Ch. P.C.

Imm. of ft stars very poor.

140

Friday September 24, 1915 -

Card.

Scale R

Series 500 -

lapped.

mc 8682

N.Y.C. 6603

18 10-18.1

Differ. Inm.

Alt. -29.0c.

	ac.1	ac.2	Cu.	Magn	ac.1	ac.2	Cu.	Magn	ac.1	ac.2	Cu.	Magn
1	Q		.		9.1	9.5	9.60	11 - 1.92	7.68	10.2	-2.60	7.60
2	Q		.		10.4	10.2	10.30	11 - 2.13	8.17	def.?	.	.
3	6.4		2.60	9.30	11.5	11.6	11.55	10 - 2.46	9.09	12.4	-3.01	9.39
4	6.9	Q	2.38	9.58	12.1	12.1	12.10	00 - 2.57	9.53	13.1	-3.12	9.98
5	8.5	8.5	8.50	00	189					1.6	.	.
6	8.9	9.3	9.25	00	1.66					1.6	.	.
7	9.4		1.61	11.01								
8	10.1		1.42	11.52								
9	10.2		1.40	11.60								
10	10.9	10.8	10.85	1.26	12.11							
11	11.8	11.7	11.75	1.13	12.88							
12	12.1	12.1	12.10	1.11	13.21							
13	12.6	12.6	12.60	1.10	13.70							
14	13.2	13.3	13.25	1.15	14.40							
15	1.											
16												
17												
18												
19												
20												

ch. 76.

*Inm. too large, not comparable with scale.

Friday September 24, 1915.

Cand.

Scale R

Series 500

Copied.

mc8683

m25

18 23- 19.2

Diff. Imm. Alt. 30

	sc.1	sc.2	Cuv.	Magn	sc.2	sc.2	Cuv.	Magn	sc.2
1	5.1				10.4	10.6	10.50	11-2.18	8.32 11.5 - 2.87 8.63
2	7.3								
3	7.4								
4	8.2								
5	8.4	8.1	8.15	0.1	2.01				
6	8.6	8.4	8.70	0.0	1.82				
7		9.3	9.10	2.2	1.70				
8		9.5							
9		10.6							
10		10.6							
11		11.1							
12		11.4							
13		11.4							
14		11.8							
15		12.2							
16		12.4							
17		12.6							
18		12.8							
19		13.2							
20		13.6							

ch. F. b.

Imm. not circular.

142

Friday September 24, 1915-

Card.

Scale R

Series 500

loped.

mc 8684

N.G.C. 6633

18 22 + 6.5

Differ. In.

Att. + 11 P.C.

P.C. 2				Cu.	Magn	pc ² - pc ²	Cu.	Magn	pc ² - pc ²	Cu.	Magn		
1	B.			.	9.5	9.4	9.45	10	-188	7.57	10.1	-2.57	7.54 ³
2	4.7			.	10.1	9.9	10.0	11	-203	7.97	10.6	-2.69	7.91
3	4.4			.	10.6	sup.			-221	8.39	11.3	-2.83	8.47
4	5.6			.	26.3	9.23	11.6	t.p.	-248	9.12	12.5	-3.03	9.47
5	5.3			.	2.21	9.81	t.p.	12.6	-278	9.60	t.p.		
6	6.6	1.9	7.90	0.0	2.10	10.00	t.p.	t.p.			t.p.		
7	6.3	8.9	8.70	0.0	18.2	10.52							
8	7.6												
9	7.3												
10	7.7												
11	8.7												
12	8.4												
13	t.p.	t.p.											
14	10.4				13.4	11.74							
15	10.6				13.1	11.91							
16		0.0											
17	11.1	11.1	11.10		12.2	12.32							
18		0.0											
19	11.7	11.7	11.70		11.4	12.84							
20		0.1											
21	12.2	12.1	12.15		11.0	13.25							
22		0.0											
23	13.3	13.3	13.30		11.6	14.46							
24		0.0											
25	13.6	13.6	13.60										
26													
27													
28													
29													
30													

beh P.C.

P.C. elongated.

Friday September 24, 1915.

Card.

Scale R.

mc 8685

Series 500
D 10.

Copied.

P.C.

Alt. -18

	sc. 1	sc. 2	Cu.	Magn.	sc. 1	sc. 2	Cu.	Magn.
1 B			.	9.4			-2.41	6.99
2 B			.	9.5			-2.44	7.06
3 B			.	10.5			-2.66	7.84
4 B			.	10.2			-2.60	7.60
5 B			.	10.5			-2.66	7.84
6 B			.	10.5			-2.66	7.84
7 B			.	11.1			-2.79	8.31
8 B			.	t.p.			.	.
9 B			.	t.p.			.	.
10 ^{5.4} 5.1			.	11.4			-2.86	8.54
11 ^{5.7} 5.6			2.96	8.86			-2.96	9.14
12 ^{6.2} 5.9			2.82	9.02			t.p.	.
13 ^{6.1} 5.8			2.87	8.97			t.p.	.
14 ^{6.5} 6.5			2.54	9.34			12.7? ⁶ 12.7	9.55
15 ^{7.1} 7.1			1.82	10.52			sup?	.
16 ^{8.5} 6.8			2.42	9.52			13.3	10.16
17 ^{8.2} 8.2	8.3	8.40	1.1	10.31			4.	.
18 ^{8.6} 1.3	B		2.22	9.82			13.3	10.16
19 8.3	8.4	8.50	1.1	10.39			4.	.
20	9.4		1.61	11.01			.	.
21 ^{8.7} 8.4	8.1	8.70	0.0	10.52			4.	.
22 ^{9.2} 8.9	9.1	9.15	0.1	10.83			.	.
23 ^{9.0} 8.1	9.1	9.05	0.1	10.76			.	.
24	9.3		1.64	10.94			.	.
25	10.5		1.34	11.84			.	.
26	10.1		1.42	11.52			.	.

* Rememo. Nov. 19, 1915

^{sc. 1}
 14 6.4
 15 7.9 8.4
 16 6.5

meas. above = wr. unit.

bh. F. b.

144

Friday September 24, 1915.

Scale R

Series 500

Copied.

Mc 8685

D10

19 - 15°

Alt. - 18

	sc 2	Cu.	Magn
27	99	1.48	11.38
28	10.4	1.35	11.75
29	10.7	1.30	12.00
30	11.1	1.22	12.32
31	11.1	1.22	12.32
32	11.5	1.17	12.67
33	12.2 12.2 12.20 0 0	1.10	13.30
34	12.2 12.1 12.15 0 1	1.10	13.25
35	12.2 12.3 12.25 0 1	1.10	13.35
36	12.7 12.4 w.s. 12.5 12.60 1 1	1.10	13.70
37	13.4 13.4 13.40 12.6 w.s. 0 0	1.19	14.59
38	13.5 13.4 12.4 13.45 1 0	1.19	14.64
39	12.4 13.8?	.	.
40			

Ch. F. b.

Friday, September 24, 1915

Scale R

Series 500 -

Expt. 18

mc 8685

D10

Differ. Jan.

19-15°

g h

Alt. -18

sc.1 sc.2

sc.1 sc.2

Cm.

Magn.

Out of focus

1

8.5

2

8.2

t.p.

-1.56

6.94

3

4

5

6

10.1 10.10 0 0

10.1

-2.07

8.03

7

10.4 10.45 0 1

10.5

-2.18

8.27

8

10.5

t.p.

-2.19

8.31

9

t.p.

t.p.

10

10.4 10.40 0 0

10.4

-2.16

8.24

11

t.p.

t.p.

12

11.5 11.45 1 0

11.4

-2.42

9.03

13

11.6 11.55 0 1

11.5

-2.47

9.08

14

11.6 11.65 0 1

11.7

-2.49

9.16

15

t.p.

t.p.

16

12.2 12.30 1 1

12.4

-2.59

9.71

17

t.p.

t.p.

18

12.6

t.p.

-2.61

9.99

19

13.5

t.p.

-2.62

11.04

20

t.

t.

21

t.p.

t.p.

Ch. F.C.

22

23

24

Monday October 11, 1915-

Scale R

Series 375.

Plot, Sheet No. 24

2:15

mc 6922.

Pole.

mc 6927

P.C.

mc 6927-

	pc.1	sc.1	pc.2	sc.1	sc.2		pc.1	pc.2	sc.2	sc.1	sc.2	
5	45						78 15	79.0 B.	80 11	79.5 45-05	5.5 5.5 6	79.2 02 03 -1.43
6							86 83	86.0 00	86 84	86.5 45-05	5.5 5.5	86.2 02 03 -1.51
8								10.25 01		10.32 07 08	32 07 08	10.28 03 04 -2.05
9								10.21 10.3		10.4		
10	58			62				10.75 12		10.82 07 08	82 07 08	10.78 03 04 -1.95
10	55			59				10.9 10.6		10.9		
11	67			69				11.25 10		11.28 03 04 -1.95		
11	64			66				6.00 2 2	3.02	11.3	11.2	11.28 03 02 -2.26
12	69			74				6.80 1 1	2.75	11.9	11.85 10	11.8 11.82 03 02 -2.27
12	66			71				7.15 3 2	2.71	12.5	12.45 10	12.4 12.42 03 02 -2.56
13	78			79				7.85 0 1	2.45	13.2	13.15 01	13.1 13.12 03 02 -2.82
14	15			16								
14	81	8.1	8.10 00	82	8.1	8.15 01	8.12	02 03	2.53	13.3	13.35 10	13.4 13.38 03 02 -2.73
15	87	8.4	8.6 8.65 10	88	8.5	8.65 21	8.65	00 00	2.43	13.5	13.55 10	13.6 13.58 03 02 -2.50
16	92	8.9	9.1 9.15 01	91	8.8	8.9 9.1	9.10	00 00	2.28			14.0 14.00 03 02 -2.60
17		9.2 ⁴		96								
17								9.50 1 1	2.13			
18	10.1			10.1				10.10 0 0	1.96			
19	10.6			10.6				10.60 0 0	1.82			
20	10.9			10.9				10.80 1 1	1.93			
23												
23	11.4	11.6 11.50		11.5				11.50 00 00	1.84			
25	12.3	12.4 12.35		12.2	12.2 12.20	12.28 07 08	15.9					
26	12.7	12.8 12.75 ¹⁰		12.7	12.7 12.70	12.72 03 02	1.61					
27												
27	13.2	13.4 13.30		12.9	13.1 13.00	13.15 15 15	15.4					
28	13.6	13.6 13.60		13.5	13.4 13.45	13.52 08 07	15.9					
29	13.7	13.7 13.70		14.0	13.9 13.95	13.82 12 13	1.84					
30	±	±		±	±							
31	m.s.			m.s.								leh. S.C.

beh. P.C.

Monday October 11, 1915

No. 27

Scale 10

Series 315

Copied.

mc 6923

* U Cephei

P.C.

Att. +11

	sc.1	sc.2	Cu.	Magn	sc.1	sc.2	sc.2	Cu.	Magn
5	a			8.5					
3-143				8.2	8.3			8.40 1.1	-1.50 6.90
5	b			8.1		8.5	8.30 2.2	-1.48	6.82
3-151				1.8					
8	off fr.								
4-203	b			9.0					
8	c			8.6	9.4	9.20 2.2	-1.67	7.53	
4-195									
-226	c'								
-227	d t.p.				10.5	10.6	10.55 1.0	-2.04	8.51
-256	d' B.				9.9	9.9	9.90 0.0	-1.87	8.03
-282	e B.				9.6			-1.79	7.81
-273	f 54				10.8			-2.10	8.70
-250	g t.p.				11.1			-2.18	8.92
-260	h t.p.				11.1			-2.37	9.33
	h' B.				11.5			-2.30	9.20
	k t.p.				11.5			-2.30	9.20
	l 7.7								
	l 1.4		2.59	10.29	13.4			-2.68	10.72
	m 6.9		2.76	9.66	12.4			-2.56	9.84
	m' 5.9? poor		2.98	9.11	12.54			-2.56	9.84
	n 4.0								
	o 6.1		2.74	9.74	13.1			-2.69	10.41
	p t.p.				13.2			-2.69	10.51
	q 7.8 5.7								
	q 1.8 4.4		2.56	10.36	13.4			-2.68	10.72
	r 7.9								
	r 1.6? 1.9?	1.90? 0.0	2.55	10.45	13.1			-2.61	11.09
	s 8.1? 8.4?	8.40? 0.0	2.43	10.83	±				
	t 8.1	t.p.			±				
	u t.p.								
	w t.p.								
edge	x t.p.								

lev. F.C.

* Seq. not in centre of pl. - Var is 91^{mm} from centre.

Imag. = poor

148

Monday October 11, 1915.

Scale R

Series 475-

mc6923

U Cephei

 y' t.p. y^2 " z' " z^2 " z^3 " z^4 "

off pl.

 α " β "

t.p.

Images of faint stars are very poor, all appear out of focus. due to the distance from the centre.

Monday October 11, 1915.

Scale R

Series ³ X 75

mc 6923				cont.	Ref. seg. centre. O.C.				
sc1	sc2	sc3	Cu.	Magn.	sc1	sc2	sc3	Cu.	Magn.
1. 8					112	113	1125 0 1	2.23	9.02
2. 15			2.56	10.36	126	127	1265 0 1	2.61	10.04
3. 18	19	800 1 1	2.52	10.52	134	132	1330 1 1	2.69	10.61
4. 85	86	870 1 1	2.37	11.07	t.p.	t.p.			
5. 84	85	860 1 1	2.40	11.00	138	139	1380 0 0	2.58	11.22
6	96		2.16	11.76	+	+			
7	97		2.13	11.83					
8	10.2		2.01	12.21					
9	10.6		1.92	12.52					
10	10.8		1.89	12.69					
11	11.4		1.77	13.17					
12	11.6		1.73	13.33					
13	11.1		1.72	13.42					
14	12.50 0 0		1.60	14.10					
15	12.9 12.9		1.56	14.46					
16	13.35 1.0		1.59	14.94					
17	13.20 1.1		1.54	14.74					
18	13.3 13.1		1.62	14.82					
19	+								
20	ms								

Lh. F. b.

150

Tuesday October 12, 1915 -

Scale R

Series 511-

Plot, Sheet No. 219.

10:15

mc8815

Pole.

mc8820

P.C.

8820.
P.C.

	sc.1	sc.2	sc.3	sc.1	sc.2	sc.3	P.C.	P.C.	Diff.
5							91 88	900 11 86	-251 890 20
6							10.1	10.00 11 99	-289
8							11.6	11.50 11 114	-327
9							12.2	12.20 00 122	-337
10	72 69 79 76 85			68 65 78 75 80			7.00	2 2 202	12.5 12.40 11 12.3
11	8.2	8.0	8.30 2 2	1.1	1.9	795 0 1	785 1 0	167	13.2 13.15 01 13.1
12	90 81	9.1	905 0 1	89 86	8.9	890 0 0	898 07 08	132	13.4 13.1
13									
14	9.5			9.5			9.50	0 0 115	
15	10.2			10.1			10.15	0 1 093	
16	10.5			10.4			10.45	1 0 095	
17	10.7			10.7			10.70	0 0 093	
18	11.3			11.4			11.35	1 0 071	
19	11.7	11.6	11.65 0 0	11.7	11.7	11.70	11.68	03 02 074	
20	12.1	12.1	12.10 0 0	12.1	12.1	12.10	12.10	00 00 063	
23	12.6	12.6	12.60 0 0	12.7	13.1	12.90	12.75	15 15 059	
25	13.3	13.3	13.30 0 0	13.3	13.4	13.35	13.32	02 03 055	
26	13.5	13.4	13.45 10	13.6	13.7	13.65	13.55	10 10 078	
27	14. 1	14. 1		13.8			13.80	0 0 089	
28				14.					
29									
30									

Tuesday October 12, 1915-

Scale R

Series 511-

mc8815		Pole -	Diff. Inv.
g	h	mc8820	
80	84	79	
5 1.7 8.20 2.2 8.1		16.1 9.0 0.0 1.0	8.05 15 15 -1.56
6 9.0 9.00 0.0 9.0		9.1 9.10 0.0 9.1	9.05 05 05 -1.94
8 10.6 10.65 0.1 10.7		10.7 10.70 0.0 10.7	10.68 03 02 -2.45
9 11.5 11.55 0.1 11.6		11.4 11.45 0.1 11.5	11.50 05 05 -2.67
10 11.9 12.00 0.1 12.1		12.1 12.10 0.0 12.1	12.05 05 05 -3.03
11 12.5 12.60 0.0 12.6		12.6 12.60 0.0 12.6	12.60 00 00 -3.05
12 12.7 12.80 0.1 12.9		12.6 12.85 2.3 13.1	12.82 02 03 -2.96
13 13.4 13.40 0.0 13.4		13.4 13.45 0.1 13.5	13.42 02 03 -3.12
14 13.9 13.95 0.1 14.0		t.p. t.p.	13.95 02 03 -3.30
15 n.s. n.s.			
16			
17			
18			
19			
20			
23			
25			

Ch. & C.

152

Tuesday October 12, 1915 -

Card.

Scale R -

Series 511 -

Copied.

mc 8816			Carte		21 ^h + 10.5		Diff.		Alt. +15° 90.	
sc.1	sc.2	sc.3	Cu.	Magn	g	h	sc.2	sc.3	Cu.	Magn
1. B			.		10.6	10.7	10.65	0.1	-2.42	8.23
2. 1.7					12.1	12.4	12.25	1.2	-2.89	9.36
3. 1.4	B		1.79	9.49	13.4				-3.19	10.21
* 3. 8.9	9.3	9.25	0.1	1.25	10.50					
4. 8.7	8.5	8.60	1.1	1.45	10.05	13.2	t.p.		-3.14	10.06
5. 8.9	8.8	8.90	1.1	1.36	10.26	t.p.	13.2		-3.14	10.06
6. 9.5			1.17		10.67	t.p.	t.p.			
7. 9.5			1.17		10.67	t.p.	t.p.			
8. 10.1			1.00		11.10					
9. 10.5			0.89		11.39					
10. 11.5			0.70		12.20					
11. 11.2			0.74		11.94					
12. 11.5			0.70		12.20					
13. 11.8	11.9	11.85	0.64		12.49					
14. 12.1	12.2	12.15	0.60		12.75					
15. 12.5	12.5	12.50	0.60		13.10					
16. 12.6	12.6	12.60	0.60		13.20					
17. t.p.	t.p.		0							
18. 13.5	13.4	13.45	0.70		14.15					
19. t.p.	t.p.									
20. t.p.										

* Remains B.C. Feb. 17, 1916

sc.2

1 11.1

2 12.4

3 t.p.

Wrong image measured.
Measured one to left and below star 1. 0.

* 4 is brighter than star 3 on orig. pl. also.

Tuesday October 12, 1915

Cand.

Scale R

Series 511 -

b.p. fid

mc 8817

C 11 -

21 + 15°

P.C.

alt. #17

	sc. 1	sc. 2	sc. 3	Cu.	Magn.	sc. 1	sc. 2	Cu.	Magn.
1	B.			.		95		-270	680
2	B.			.		97		-277	693
3	B.			.		106		-308	756
4	B.			.		107		-306	764
5	5.8			.		114		-322	818
6	5.5			.		114		-322	818
7	5.8			.					
8	6.4			.		along.			
9	6.1			.		12.2		-339	881
10	6.7			.		12.8		-350	930
11	6.4			.		t.p.			
12	7.4			.					
13	7.1			1.88	9.28	12.8		-350	930
14	7.3	Q.		1.82	9.42	t.p.			
15	8.1	1.9		1.66	9.66	13.4		-360	980
16	1.8	8.00	1	1.66	9.66	13.3		-358	972
17	1.9	8.1	2	1.66	9.66	t.p.			
18	8.1	8.8							
19	8.5	8.2	8.4	8.45	10	9.95			
20	9.2	8.9	9.3	9.25	0	10.49			
21									
22									
23									
24									
25									
26									

beh. P.C

154

Tuesday October 12, 1915 -

Scale R

Series 511-

Copied.

mc 8817

C11 cont.

Att. +17

	pc 2	pc 2		Cm.	Magn
27	12.3	124	12.35	10.060	12.95
28	12.5	126	12.55	10.060	13.15
29	12.7	128	12.75	10.061	13.36
30	13.1	131	13.10	00.064	13.74
31	13.3	133	13.30	00.068	13.98
32	13.4	134	13.40	00.070	14.10
33	+	+	,	,	,
34	ms.		,	,	,

Ch. F. G.

Tuesday October 12, 1915

Scale R

Series 511-

Copied.

mc 8817

C11

Differ. Im-

Alt. 717

	g	h		
	pc.1	pc.2	pc.1	pc.2
	90	89		
1	8.1	8.95	86	89
2	8.2	9.05	86	89
3		10.3	10.20	11.1
4		10.4	10.40	10.4
5		11.1		
6	11.1	11.1	11.10	11.1
7	11.6	11.6	11.60	11.6
8	neady		11.7	
9	sup.		12.1	12.10
10	12.4	12.4	12.25	12.3
11		12.7	12.70	12.7
12	12.4	12.4	12.65	12.6
13		12.6	12.65	12.7
14	12.4	12.4	12.95	12.8
15	13.4	13.4	13.40	13.4
16	4	4		
17	4	4		
18				
19				
20				
21				
22				
23				
24				
25				
26				

Magn

7.05

7.11

7.91

8.04

8.54

8.54

8.89

8.96

9.24

9.44

9.70

9.66

9.66

9.74

10.22

Ch. F. B.

Tuesday October 12, 1915

Card

Scale 10

Series 511- Esquid.

mc 8818

65K

Diff. In.

alt +21 30.

sc.1	sc.2	sc.2	Cu.	Magn	sc.2	sc.2	Cu.	Magn	sc.2
68									
1	6.5		2.09	8.89	117	119	11.80	11-2.77	9.03
2	8.4	8.5	8.60	1.45	10.05	134	134	13.40	0.0 -3.19
3		10.4	0.92	11.32	+	+			
4		10.5	0.89	11.39					
5		10.1	0.84	11.54					
6		11.1	0.66	12.36					
7		12.3	0.60	12.90					
8		12.3	0.60	12.90					
9		12.5	12.1	12.60	0.60		13.20		
10		13.1	13.2	13.15	0.64		13.79		
11		13.4	13.4	13.40	0.70		14.10		
12		t.p.	t.p.						
13		13.1	13.9	13.80	0.84		14.64		
14		13.1	13.1		0.79		14.49		
15		f.							
16									
17									
18									

Ch. F. b.

Im. of phalaris poor, difficult to compare
with phalaris.

Tuesday October 12, 1915

Cand.

Scale R

Series 511-

copied.

mc 8819		Carte		21 +55		Diff. Inm.		Alt. +21		PC.	
ac.1	ac.2					g	h			ac.2	
1	B					9.5	9.6	9.55	10	2.10	7.45
2	6.7 6.4					11.6	11.7	11.65	01	2.72	8.93
3	8.1	8.1	8.25	2.1	1.58	9.83	13.2	12.9	13.05	2.1	3.09
4	8.6	8.1	8.80	1.1	1.39	10.19	tp	tp			tp
5	8.8	9.2	9.15	1.0	1.28	10.43	tp	tp			2.
6	10.4				0.92	11.32					
7	10.5				0.89	11.39					
8	10.7				0.84	11.54					
9	11.4				0.70	12.10					
10	11.8				0.64	12.44					
11	12.3	12.3	12.30		0.60	12.90					
12	12.3	12.3	12.30		0.60	12.90					
13	12.5	12.5	12.50		0.60	13.10					
14	12.8	12.6	12.70		0.61	13.31					
15	13.2	13.2	13.20		0.65	13.85					
16	tp	tp									
17	tp	tp									
18	tp										
19	13.5				0.72	14.22					
20	2										

cl. F. b.

Thursday October 14, 1915

Scale R

Series 521-

Plot, Sheet No. 220

8:15

mc 89.41

Pole.

8946.

P.C.

P.C.
8946

sc.1 sc.2

sc.1 sc.2

sc.1 sc.2

sc.1 sc.2

Diff.

5

91
88 910 00 88

-2.61

6

10.1 10.10 00 10.1

-2.99

8

11.4 11.55 21 11.1

-3.32

9

Diff. t.p. 12.2

-3.37

10

6.9 6.6 6.8 6.5 6.85 1 0 2.17 12.3 12.30 00 12.3

-3.28

11

7.8 7.5 7.9 7.6 7.9 0 0 7.85 05 05 1.70 12.8 13.00 22 13.2

-3.45

12

8.1 8.2 8.15 1 0 8.2 8.3 8.40 1 1 8.28 13 13 1.58 13.3 t.p. -3.44

13

8.5 9.0 8.90 1 1 9.3 9.0 20 20 1.20 4. 1

14

9.6 9.6 9.60 0 0 1.05

15

10.1 10.3 10.20 1 1 0.88

16

10.6 10.4 10.50 1 1 0.90

17

10.1 10.8 10.75 1 0 0.88

18

11.6 11.4 11.50 1 1 0.56

19

11.1 11.1 11.70 11.9 12.0 11.82 12 13 0.60

20

12.30 12.20 12.20 12.4 12.5 12.32 12 13 0.41

23

12.5 12.1 12.60 12.6 12.7 12.62 02 03 0.72

25

13.3 13.2 13.25 13.4 13.4 13.32 07 08 0.55

26

13.4 13.5 13.45 13.4 13.5 13.45 00 00 0.88

27

13.8 13.8 13.80 4 13.80 2 1 0.89

28

4 4 ms.

29

ms.

30

ms.

ch. P.C.

Thursday October 14, 1915

Scale R

Series 521-

	mc 8941	Pole -	Diff. Imm.
	g h	mc 8946 g h	
	sc.1 sc.2 sc.1 sc.2	sc.1 sc.2 sc.1 sc.2	
5	8.1 8.45 ⁰ 8.2	8.1 7.8 8.2 7.9	8.30 15 15 - 1.81
6	9.3 9.45 ¹² 9.6	9.4 9.40 ⁰⁰ 9.4	9.42 03 02 - 2.31
8	10.6 10.65 ⁰¹ 10.7	10.8 10.75 ⁰¹ 10.9	10.70 05 05 - 2.47
9	11.4 11.55 ²¹ 11.7	11.7 11.70 ⁰⁰ 11.7	11.62 07 08 - 2.79
10	11.8 11.80 ⁰⁰ 11.8	12.5 12.45 ¹⁰ 12.4	12.12 32 33 - 3.10
11	12.4 12.40 ⁰⁰ 12.4	12.7 12.70 ⁰⁰ 12.7	12.55 15 15 - 3.00
12	12.7 12.65 ¹⁰ 12.6	12.9 12.90 ⁰⁰ 12.9	12.78 13 12 - 2.92
13	13.3 13.30 ⁰⁰ 13.3	t.p. 13.4	13.35 05 05 - 3.05
14	t.p. t.p.	t.p. t.p.	.
15	t. t.	.	.
16			
17			
18			
19			

9.18

160

Thursday October 14, 1915

Card

Scale R.

Series 521-

copied.

mc8944

Carte

22^e - 23.5

Differ. Im.

Att. - #4 P.C.

sc.1	sc.2	Cu.	mag	g	h	sc.2
1. 5.1						
1. 4.8			10.3	10.2	10 ²⁵ 10' - 2.48	7.77 10.1 - 3.11 7.59
2. 7.7		1.77	9.47	12.5	12.4 12 ⁴⁵ 10' - 2.99	9.46 t.p.
3. 7.7		1.63	9.63	12.9	13.1 13 ⁰⁰ 11' - 3.00	10.00
4. 8.4	8.4	8.55 1.2	9.98	t.p.	13.4	2.99 10.41
5. 8.4	8.5	8.60 1.1	10.01	t.p.	t.p.	
6. 9.3		11.4	10.44	m.s.	t.p.	
7. 9.9		0.98	10.88			
8. 10.2		0.90	11.10			
9. 10.5		0.81	11.31			
10. 10.9		0.73	11.63			
11. 11.2		0.67	11.87			
12. 11.7		0.60	12.30			
13. 11.7		0.60	12.30			
14. 11.7	11.7	0.60	12.30			
15. 12.20	12.4	0.59	12.89			
16. 12.35	12.4	0.59	12.94			
17. 13.2	13.2	0.69	13.89			
18. 13.3	13.2	0.70	13.95			
19. t.p.	t.p.					
20. t.	t.					

Ch. P.C.

Thursday October 14, 1915

Cand.

Scale R

Series 521-

copied.

mc 8945

N.G.C. 7243 - Δ b. 4773.

Diff. In.

Alt. +22 P.C.

	sc1	sc2	sc3	Cu.	Magn	g	h		sc2	Cu.	Magn
1	B			.	10.4	10.4	10.40 00 - 2.51	7.89	10.8	-3.14	7.66
2	B			.	10.6	10.7	10.65 01 - 2.58	8.07	10.9	-3.15	7.75
3	7.0 6.7			2.08	9.08	12.3	12.2 12.25 10 - 2.73	9.28 9.52	12.6	-3.40	9.20
4	7.7 7.4 B.			1.76	9.46	12.3	12.4 12.50 11 - 2.80	9.50 9.70	13.2	-3.44	9.76
5	8.2 7.9	8.1	8.15 01	1.58	9.73	12.1	nearby sup.	-3.00	9.70	L	.
6	8.5 8.5	8.9	8.85 01	1.31	10.16	t.p.	t.p.	.	.	.	.
7	9.9			0.98	10.88	m.s.	m.s.	.	.	.	.
8	9.8			1.00	10.80			.	.	.	.
9	9.9			0.98	10.88			.	.	.	.
10	10.4	10.4	10.40 00	0.82	11.22			.	.	.	.
11	11.1	11.1	11.10 00	0.68	11.78			.	.	.	.
12	11.2	11.3	11.25 01	0.66	11.91			.	.	.	.
13	11.7	11.9	11.75 11	0.60	12.35			.	.	.	.
14	12.1	12.5	12.60 11	0.61	13.21			.	.	.	.
15	t.p.	t.p.	.	.	.			.	.	.	.
16								.	.	.	.
17								.	.	.	.
18								.	.	.	.
19								.	.	.	.
20								.	.	.	.

Ch. F. G.

162

Saturday October 16, 1915

Scale P

Scale measures of A plate for H.S. Regions.

8.55

A 10853

4 Expos.

9 20 -45.0°

1st exp. 1^{mm}

1.4

2nd exp. ⁸ by ~ Curve Magn

sc.1 sc.2

sc.1 sc.2

Diff from
mean and
Krating

1

B

too poor

2 t.p.

3

4

5

6

B.

7

4.6 4.7

4.65 0.1

8

5.3 5.4

5.25 0.1

9

5.4 5.4

5.55 ± 1

10

5.5 5.4

5.45 1.0

Remeas. Nov. 10, 16.

sc.2 Sc.P.

11

5.8 6.1

5.95 ± 1

B

12 6.2

12

6.0 6.3

6.15 ± 1

B

13 5.7

13

5.3 5.6

5.3

B

14 6.2

14

5.8 6.1

5.95 ± 1

B

13 is brighter than 12.

15

6.2 6.5

6.35 ± 1

dbl?

16

17

6.6 6.8

6.85 2.3

18

6.8 7.1

7.1

3.2

7.59

7.61
7.14

10.81

assume first quant. 19

19

6.4 6.7

6.65 2.1

B.

20

7.6

21

7.8

22

8.6

t.p.

23

8.6

3.8

7.72

7.62
7.10

11.42

24

8.7

t.p.

25

9.4

t.p.

26

9.6

t.p.

Saturday October 16, 1915

Scale P

Y.S. Regions cont.

A 10853

1st ext. μ

pc.1 pc.2

27 9.1

28 \pm

29 n.s.

30

31

32

33

34

35

36

37

38

39

40

64 μ p. ^{Diff. from} ^{midway and} ^{Grating} Curve Magn.

pc.1 pc.2

4.9 . 7.52 7.69 12.59

t.p. t.p. . .

t.p. 5.1 ~~7.84~~ 7.69 12.796.2 ^{6.15} 6.1 ~~7.67~~ 7.66 13.816.3 ^{6.35} 6.4 ~~7.71~~ 7.63 13.98

5.9 w.s. t.p. . .

t.p. . .

7.3 ~~7.31~~ 7.31 14.617.9 ~~7.00~~ 7.03 14.938.1 ~~6.81~~ 6.98 15.088.4 ~~6.84~~ 6.92 15.328.1 ~~6.90~~ 6.93 15.639.1 ~~7.19~~ 7.02 16.12

J.

164

Saturday October 16, 1915

Plotting sheet 71.

Scale P.

H. I. Regions cont

A 10853

3rd ^{*}
+ 4th. 8^m

sc. 1 sc. 2

4th Exp 1^m 1st exp. 1^m

sc. 1 sc. 2

mean.

2.48 Cu.

Magn.

1

2

3

4

6

6

7

8

9 B

10 B

11 B

12 B

13 B

14 B

15 B

16 .

17 B.

18 39

19 t.p.

20 t.p.

21 t.p.

22 t.p.

23 t.p.

24 t.p.

25 t.p.

26 t.p.

Exp. 1^m Sc P.
meas by O.

5.9

5.2

5.7

13 is brighter than 12)

dbl.

B.

t.p.

4.9^{4.6}4.6.5 4.62^{02 03}

3.48 .

5.2^{4.9} B.

5.25 5.08 18 17

3.78 3.74 8.82

t.p. 5.6

5.55 5.58 02 03

3.64 3.74 9.32

t.p. 5.6

5.45 5.52 08 07

3.75 3.74 9.26

5.8

6.1 6.1 5.95 2 1 5.95 5.95 00 00

3.45 3.74 9.69

5.8

6.1 6.1 5.95 2 1 6.15 6.05 10 10

3.69 3.73 9.78

5.3

5.6 5.6 5.45 1 2 5.3 5.38 07 08

4.39 3.74 9.12

5.3³ poor

5.6 5.1 5.50 2 2 5.95 5.72 22 23

4.02 3.74 9.46

6.0

6.3 6.3 6.15 2 1 6.35 6.25 10 10

3.63 3.73 9.98

6.3

6.6 6.6 6.45 1 2 6.85 6.65 20 20

3.76 3.70 10.35

6.6

6.9 7.1 7.1 7.10 0 0

3.69 3.57 10.67

t.p. 6.7

6.65 6.68 02 03

3.88 3.68 10.36

7.0

7.6 7.60 0 0

3.40 3.42 11.02

7.0

7.8 7.70 1 1

3.42 3.38 11.08

8.5

8.6 8.55 1 0

2.86 3.14 11.69

8.5

8.6 8.55 1 0

2.97 3.14 11.69

8.5

8.7 8.60 1 1

3.27 3.12 11.72

9.3

9.4 9.35 1 0

2.91 2.92 12.27

9.4

9.6 9.50 1 1

2.94 2.88 12.38

Images on this exp. are too poor to measure.

Saturday October 16, 1915

Scale P

H. S. Regions cont.

A 10853

3rd Exp.

4th Exp. 1^m.

sc.1

sc.2

1st exp. 1^m.

Diff. Cu Magn.

27 t.p.

9.5

9.7 9.60 \pm 1 2.82 2.84 12.44

28 t.p.

t.p.

29 t.p.

30

31

32

33

34

35

36

37

38

10:27

166

Tuesday October 19, 1915

Scale 7

A Series 9

1 15~~7~~*A 10901

C 6.

sc. 1 sc. 2

diff.

1		
2		
3	B	
4		
5		
6		
7		
8		
9		
10		
11	B	
12	B	
13	B	
14	t.p.	
15	t.p.	
16	t.p.	
17	5.1 ¹⁰⁰ 4.8	5.98
18	5.3 5.0	6.11
19	5.3 5.0	5.93
20	5.5 5.2	5.91
21	t.p.	
22	t.p.	
23	6.25 5.9 6.3	6.10 \pm 2 5.73
24	6.4 6.1 6.4	6.25 \pm 2 5.91
25	6.6 6.3 6.6	6.45 \pm 2 5.88
26	7.1	5.59

* Images very much elongated. Difficult to compare with scale.

Tuesday October 19, 1915

Scale 1

A series 9.

	a 10901		cont.	
	sc. 2 sc. 2		diff.	
27	1.6		5.53	
28	1.8		5.46	
29	1.1		5.56	
30	8.1		5.16	
30a	8.8	8.9	8.85 0.1	5.39
31	9.4	9.3	9.35 0.1	5.15
32	9.2	9.2	9.20 0.0	5.44
33	9.6	9.5	9.55 0.1	5.37
34	10.0	10.0	10.00 0.0	5.34
29a	8.3	8.3	8.30 0.0	5.27

168

Tuesday October 19, 1915.

Scale P

A Series 9.

bopied Bk 34:66

A 10902

174 K.

alt. corr. -03

	sc.1	sc.2	sc.3	Curve	Magn.
1					
2	tip.				
3	5.3 ²¹ 4.9			5.96	10.86
3a	5.4 5.1			5.94	11.04
4	5.6 5.3			5.92	11.22
5	tip. 6.4			5.79	12.19
6	6.7 6.4	6.50 ± 1		5.77	12.27
7	6.8 6.5	tip.		5.77	12.27
8	7.4			5.59	12.99
9	7.7	7.7 7.70 ± 0.0		5.50	13.20
10	7.8	7.8 7.85 ± 0.1		5.48	13.33
11	8.1	8.5 8.60 ± 0.1		5.27	13.87
12	8.8	8.9 8.85 ± 0.1		5.20	14.05
13	9.6	9.5 9.55 ± 0.1		4.97	14.52
14	±	±			
15	ns.				

Images very poor, difficult to compare with scale.

Tuesday October 19, 1915

Scale

A Series 9.

A 10903

 η Carinae

alt. corr. -15

see 1

a .

b .

c .

d .

e .

f B

g 53

g' B

a' B

b' B

a² Ba³ Ba⁴ Ba⁵ B

x B

B B

-59° 2784 B

2772 1

2735 1

2693 1

2367 1

-60 2320 1

2199 1

Var B

Stars here
have around
image.
Impossible
to
measure.

170

Tuesday October 19, 1915-

Scale P

A Series 9-

A 10904

Nova Velorum 10 58 - 53.8 alt. corr. -10

sc.1 sc.2 sc.3

Curve Magn.

a .

b .

c t.p.

d 5.3 5.0

5.95 10.95

e t.p.

f t.p.

g t.p.

h

1.2

5.65

12.85

k

1.3

1.4

7.35

5.60

12.95

l

t.p.

t.p.

m

8.8

8.8

8.8000

5.22

14.02

n

9.3

9.4

9.35

5.02

14.37

o

1

1

p

q

r

Tuesday October 19, 1915.

Scale 9

A Series 9

A 10906

C-7

alt. corr.

sc.1 sc.2 sc.3 Diff.

off fil.

off fil.

1

2

3

4

5

6

7

8 B

9 B

10 B

11

12

13

14

15

16

+f.

17

+f.

18

+f.

19

+f.

20

+f.

21

7.1² ^{noon}

5.71

22

7.1

5.56

23

8.1

5.30

24

9.1

4.80

25

9.3

4.77

26

9.8

4.48

Images appear double - very poor

2 15

172

Thursday October 21, 1915

Scale R

Series 379.

Plot, Sheet No. 220

11:55

mc 6986

Pole.

mc 6991

P.C.

mc 6991

	ac.1	ac.2	ac.1	ac.2	ac.1	ac.2	ac.2	ac.1	ac.2	ac.2
5					8.1	1.8	8.1	79	1.6	7.95
6					9.0	8.95	8.9	8.4	8.65	8.80
8					10.6	10.6	10.6	10.15	10.2	10.38
9					11.0	11.1	10.9	11.1	11.1	11.05
10	6.2		5.7		11.4	11.5	11.3	11.15	11.2	11.28
11	5.9		5.4		11.8	11.8	11.9	11.8	12.1	11.90
12	6.4		5.6		12.2	12.2		12.5	12.35	12.3
13	6.7		6.7		12.7	12.7		12.9	12.80	12.8
14	6.9		6.4		13.0	13.0		13.3	13.05	13.0
15	7.1		7.1		13.3	13.3		13.5	13.40	13.4
16	7.6		7.6		13.8	13.8		13.5	13.65	13.6
17	7.9		7.9		14.0	14.0		14.0	14.0	14.0
18	8.1		8.1		14.5	14.5		14.5	14.5	14.5
19	8.4		8.4		15.0	15.0		15.0	15.0	15.0
20	8.6		8.6		15.5	15.5		15.5	15.5	15.5
21	8.7		8.7		16.0	16.0		16.0	16.0	16.0
22	8.7		8.7		16.5	16.5		16.5	16.5	16.5
23	8.7		8.7		17.0	17.0		17.0	17.0	17.0
24	8.7		8.7		17.5	17.5		17.5	17.5	17.5
25	8.7		8.7		18.0	18.0		18.0	18.0	18.0
26	8.7		8.7		18.5	18.5		18.5	18.5	18.5
27	8.7		8.7		19.0	19.0		19.0	19.0	19.0
28	8.7		8.7		19.5	19.5		19.5	19.5	19.5
29	8.7		8.7		20.0	20.0		20.0	20.0	20.0
30	8.7		8.7		20.5	20.5		20.5	20.5	20.5
31	8.7		8.7		21.0	21.0		21.0	21.0	21.0
32	8.7		8.7		21.5	21.5		21.5	21.5	21.5
33	8.7		8.7		22.0	22.0		22.0	22.0	22.0
34	8.7		8.7		22.5	22.5		22.5	22.5	22.5
35	8.7		8.7		23.0	23.0		23.0	23.0	23.0
36	8.7		8.7		23.5	23.5		23.5	23.5	23.5
37	8.7		8.7		24.0	24.0		24.0	24.0	24.0
38	8.7		8.7		24.5	24.5		24.5	24.5	24.5
39	8.7		8.7		25.0	25.0		25.0	25.0	25.0
40	8.7		8.7		25.5	25.5		25.5	25.5	25.5
41	8.7		8.7		26.0	26.0		26.0	26.0	26.0
42	8.7		8.7		26.5	26.5		26.5	26.5	26.5
43	8.7		8.7		27.0	27.0		27.0	27.0	27.0
44	8.7		8.7		27.5	27.5		27.5	27.5	27.5
45	8.7		8.7		28.0	28.0		28.0	28.0	28.0
46	8.7		8.7		28.5	28.5		28.5	28.5	28.5
47	8.7		8.7		29.0	29.0		29.0	29.0	29.0
48	8.7		8.7		29.5	29.5		29.5	29.5	29.5
49	8.7		8.7		30.0	30.0		30.0	30.0	30.0
50	8.7		8.7		30.5	30.5		30.5	30.5	30.5
51	8.7		8.7		31.0	31.0		31.0	31.0	31.0
52	8.7		8.7		31.5	31.5		31.5	31.5	31.5
53	8.7		8.7		32.0	32.0		32.0	32.0	32.0
54	8.7		8.7		32.5	32.5		32.5	32.5	32.5
55	8.7		8.7		33.0	33.0		33.0	33.0	33.0
56	8.7		8.7		33.5	33.5		33.5	33.5	33.5
57	8.7		8.7		34.0	34.0		34.0	34.0	34.0
58	8.7		8.7		34.5	34.5		34.5	34.5	34.5
59	8.7		8.7		35.0	35.0		35.0	35.0	35.0
60	8.7		8.7		35.5	35.5		35.5	35.5	35.5
61	8.7		8.7		36.0	36.0		36.0	36.0	36.0
62	8.7		8.7		36.5	36.5		36.5	36.5	36.5
63	8.7		8.7		37.0	37.0		37.0	37.0	37.0
64	8.7		8.7		37.5	37.5		37.5	37.5	37.5
65	8.7		8.7		38.0	38.0		38.0	38.0	38.0
66	8.7		8.7		38.5	38.5		38.5	38.5	38.5
67	8.7		8.7		39.0	39.0		39.0	39.0	39.0
68	8.7		8.7		39.5	39.5		39.5	39.5	39.5
69	8.7		8.7		40.0	40.0		40.0	40.0	40.0
70	8.7		8.7		40.5	40.5		40.5	40.5	40.5
71	8.7		8.7		41.0	41.0		41.0	41.0	41.0
72	8.7		8.7		41.5	41.5		41.5	41.5	41.5
73	8.7		8.7		42.0	42.0		42.0	42.0	42.0
74	8.7		8.7		42.5	42.5		42.5	42.5	42.5
75	8.7		8.7		43.0	43.0		43.0	43.0	43.0
76	8.7		8.7		43.5	43.5		43.5	43.5	43.5
77	8.7		8.7		44.0	44.0		44.0	44.0	44.0
78	8.7		8.7		44.5	44.5		44.5	44.5	44.5
79	8.7		8.7		45.0	45.0		45.0	45.0	45.0
80	8.7		8.7		45.5	45.5		45.5	45.5	45.5
81	8.7		8.7		46.0	46.0		46.0	46.0	46.0
82	8.7		8.7		46.5	46.5		46.5	46.5	46.5
83	8.7		8.7		47.0	47.0		47.0	47.0	47.0
84	8.7		8.7		47.5	47.5		47.5	47.5	47.5
85	8.7		8.7		48.0	48.0		48.0	48.0	48.0
86	8.7		8.7		48.5	48.5		48.5	48.5	48.5
87	8.7		8.7		49.0	49.0		49.0	49.0	49.0
88	8.7		8.7		49.5	49.5		49.5	49.5	49.5
89	8.7		8.7		50.0	50.0		50.0	50.0	50.0
90	8.7		8.7		50.5	50.5		50.5	50.5	50.5
91	8.7		8.7		51.0	51.0		51.0	51.0	51.0
92	8.7		8.7		51.5	51.5		51.5	51.5	51.5
93	8.7		8.7		52.0	52.0		52.0	52.0	52.0
94	8.7		8.7		52.5	52.5		52.5	52.5	52.5
95	8.7		8.7		53.0	53.0		53.0	53.0	53.0
96	8.7		8.7		53.5	53.5		53.5	53.5	53.5
97	8.7		8.7		54.0	54.0		54.0	54.0	54.0
98	8.7		8.7		54.5	54.5		54.5	54.5	54.5
99	8.7		8.7		55.0	55.0		55.0	55.0	55.0
100	8.7		8.7		55.5	55.5		55.5	55.5	55.5

Thursday October 21, 1915

Scaler

Series 379-

Copied.

mc6989

Carte

 $6^h 0^m + 17.5$

P.C. Att. + 17

	sc.1		Cu.	Magn	sc.1 sc.2	sc.2	Cu.	Magn
1	B.		.		10.5	10.6	10.55 L 0	-2.18 8.37
2	B		.		10.7	10.8	10.75 L 0	-2.21 8.54
3	B		.		11.1	11.1	11.10 0 0	-2.30 8.80
4	6.1		3.17	9.57	11.6	11.5	11.55 0 1	-2.39 9.16
5	6.6		3.12	10.02	11.8	11.8	11.80 0 0	-2.43 9.37
6	7.3		3.00	10.60	12.8			-2.46 10.34
7	7.5		2.96	10.76	13.1			-2.41 10.69
(very red?) 8	7.7	B	2.99	10.69	13.3			tip. Cannot compare with scale.
9	8.1	8.4	8.40 0 0	11.24	13.4			-2.31 11.09
10	8.2	8.5	8.50 0 0	11.32	13.6			-2.22 11.38
11	8.4	9.4	9.20 2 2	11.86	±.			
12	9.6		2.51	12.11				
13	10.7		2.19	12.89				
14	11.2		2.02	13.22				
15	11.6		1.90	13.50				
16	11.70 0 0							
17	12.40 0 0		1.87	13.57				
18	12.55 L 0		1.68	14.08				
19	13.00 2 2		1.65	14.20				
20	13.20 12.8		1.62	14.62				
21	13.40 0 0							
22	13.4 13.4		1.67	15.09				

Ch. F. b.

Remeasured. June 22, 1916.

P.C. sc.2

4 11.4

No error in above measure of 5. Magnitude retained

5 11.6

6 12.4

7 12.9

12:35

174

Friday October 22, 1915.

Scale R

8 ⁵⁰

Mc 8946

Pole.

Mc 8952.

Series 521-

Plot, Sheet No. 221.

	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2	diff
5					93	92	11	8.8	-2.71
6					10.4	10.10	3	3	-2.99
8					11.7	11.55	1	2	-3.32
9					12.5	12.30	2	2	-3.47
10	7.0		6.6		12.80	12.2	22	12.5	-3.48
11	6.7		6.3		7.80	1	1	17.5	-3.70
12	7.9	8.5	7.7	8.5	8.25	35	35	16.1	-3.64
13	8.4	8.5	8.00	1	8.75	1	0	8.95	
14	8.7	9.1	8.7	9.1	9.25	0	1	9.42	
15	9.2	9.1	8.9	9.3	10.30	1	1	0.78	
16	9.6		10.2		10.50	0	0	0.90	
17	10.4		10.5		10.70	0	0	0.93	
18	10.65		10.7		11.35	1	2	0.71	
19	10.7		11.2		11.70	20	20	0.72	
20	11.5		11.5		12.2	12.7	12.20	12.35	0.38
23	12.4	12.6	12.50	1	12.6	12.6	12.60	12.65	0.69
25	12.7	12.9	12.70	0	13.4	13.4	13.40	13.40	0.47
26	13.4	13.4	13.40	0	13.5	13.4	13.45	13.45	0.88
27	13.5	13.4	13.45	10					
28	13.5	13.4	13.45	10					
29	13.5	13.4	13.45	10					
30	13.5	13.4	13.45	10					

Ch. P.C.

Friday October 22, 1915-

Scale R

Series 521-

	mc 8946	Pole-	Diff. In.
	g h	mc 8952.	
	g h	g h	Diff.
	sc.1 sc.2 sc.1 sc.2	sc.1 sc.2 sc.1 sc.2	
5	84 84.0 0 0 84 81	79 79.0 0 0 79 81	8.15 25 25 -1.66
6	9.5 9.45 1 0 9.4	9.0 9.0 0 0 8.1	9.22 23 22 -2.11
8	10.1 10.15 1 0 10.8	10.6 10.6 0 0 10.6	10.68 07 08 -2.45
9	11.1 11.70 0 0 11.1	11.5 11.55 1 0 11.6	11.62 08 07 -2.79
10	12.4 12.40 0 0 12.4	11.7 11.75 1 0 11.8	12.08 32 33 -3.06
11	12.6 12.60 0 0 12.6	12.4 12.40 0 0 12.4	12.50 10 10 -2.95
12	12.8 12.85 0 1 12.9	12.7 12.70 0 0 12.7	12.78 07 08 -2.92
13	13.4 13.45 0 1 13.5	13.2 13.25 0 1 13.3	13.35 10 10 -3.05
14	13.8 13.80 0 0 13.8	13.5 13.50 0 0 13.6	13.65 15 15 -3.00
15	f f	f f	
16			
17			
18			
19			
20			
23			
25			

Ch. F. C.

12:08
11:53

Friday, October 22, 1915 -

Cand

Scale R

Series 521 -

Copied.

mc 8941

Bq.

P.C.

Alt. 723

sc.1 sc.2

sc.1 sc.2

Cu.

Magn

1 B

89
86

- 2.62

6.28

2 B

94

- 2.79

6.61

3 B

95

- 2.80

6.70

4 B

95

- 2.80

6.70

5 B

10.3

- 3.01

7.29

6 B

10.5

- 3.07

7.43

1 5.1
4.8

10.6

- 3.09

7.51

8 5.4
5.1

11.20

- 3.25

7.95

9 5.2
4.9

11.3

- 3.28

8.02

10 5.3
5.5

11.6

- 3.34

8.34

dbl registered

11 -

-

12 6.1
5.8

12.1

- 3.45

8.65

13 6.9
6.6

2.14

9.04

12.1

- 3.56

9.14

14 7.1
6.8

2.07

9.17

12.1

- 3.56

9.14

15 7.3
7.5

1.78

9.58

13.3

- 3.66

9.64

16 7.7
7.4

1.82

9.52

13.3

- 3.66

9.64

17 8.0
7.1

8.1 8.05 0.1

1.70

9.75

13.4

- 3.67

9.73

18 8.6
8.3

1.53

10.03

f.

19 8.7
8.4

8.5 8.60 1.1

1.49

10.09

ms.

20 8.8
8.5

8.5 8.65 2.1

1.47

10.12

21 9.4

1.22

10.62

Ch. F. G.

22 9.7

1.13

10.83

23 10.20

0.98

11.18

24 10.6

0.86

11.46

25 10.1

0.82

11.52

26 11.20

0.71

11.91

Friday, October 22, 1915

Scale R

Series 521-

Copied.

mc 8941

B9 cont.

alt. 1.23

	sc. 2		Cw.	
27	11.3		0.70	12.00
28	11.1		0.63	12.33
29	11.9	12.1 12.00 1.1	0.59	12.59
30	12.4	12.20 12.30 1.1	0.54	12.84
30a	12.6	12.5 12.55 0.1	0.52	13.07
31	12.6	12.5 12.55 0.1	0.52	13.07
32	t.p.	t.p.	.	.
33	13.4	13.4 13.40 0.0	0.68	14.08
34	f		.	.
35	w.s.		.	.

178

Friday October 22, 1915

Scale R

Series 521-

copied.

mc 89487

Nova Lacertae Diff. Imm. B9

alt. +23

Ref. Log. Columns

	g	h			
	sc.1	sc.2	sc.1	sc.2	Cu.
1	8.4	8.40	0.6	8.4	-180
	8.1	8.40	0.6	8.1	-155
2	8.7	8.75	0.8	8.5	-190
	8.4	8.75	0.8	8.5	-144
3	8.7	8.70	0.0	8.7	-189
	8.4	8.70	0.0	8.4	-146
4	9.0	9.15	2.1	9.3	-238
	8.1	9.15	2.1	9.3	-131
5		9.1		def.	-223
		9.1		def.	-112
6	10.1	10.25	1.2	10.4	-240
	10.1	10.25	1.2	10.4	-97
7	10.1	10.25	1.2	10.4	-240
	10.1	10.25	1.2	10.4	-97
8	10.6	10.60	0.0	10.6	-251
	10.6	10.60	0.0	10.6	-86
9	10.3	10.40	1.1	10.5	-246
	10.3	10.40	1.1	10.5	-97
10	11.4	11.40	0.0	11.4	-274
	11.4	11.40	0.0	11.4	-68
11	-	-	-	-	-
12	11.5	11.55	1.0	11.6	-278
	11.5	11.55	1.0	11.6	-278
13	11.9	12.05	1.2	12.2	-289
	11.9	12.05	1.2	12.2	-289
14	12.2	12.30	1.1	12.4	-294
	12.2	12.30	1.1	12.4	-294
15	12.3	12.40	1.1	12.5	-296
	12.3	12.40	1.1	12.5	-296
16	12.3	12.35	1.0	12.4	-295
	12.3	12.35	1.0	12.4	-295
17	12.8	12.75	0.1	12.7	-300
	12.8	12.75	0.1	12.7	-300
18	13.1	13.30	2.2	13.5	-300
	13.1	13.30	2.2	13.5	-300
19	13.1	13.25	1.2	13.4	-300
	13.1	13.25	1.2	13.4	-300
20	13.1	13.25	1.2	13.4	-300
	13.1	13.25	1.2	13.4	-300
21	13.5		4		-300
	13.5		4		-300
22	~ c.				

rejected. dble.

Ch. P.C.

Friday October 22, 1915

179

Cand.

Scale R

Series 521-

mc 8948

Nova Sacerdotae

P.C. alt 422

g h
sc2 sc2

Diff.

Ref	Seq	Curves	sc1	sc2	Cm.	Magn	sc2	Cm.	Magn	109	108
1		58 55					116	-3.34	8.26	10.9	10.8
2		66 63			2.24	8.84	124	-3.50	8.90	11.1	11.1
3		77 74			18.2	9.52	13.1	-3.62	9.48	12.4	12.4
4		76 73			18.5	9.45	11.5	sup?		12.5	12.4
5		77 74			18.2	9.52	13.2	-3.64	9.56	12.5	12.6
6		82 79	8.1	8.15	0.1	16.5	13.8			12.8	13.1
7		88 85	8.1	8.75	0.1	14.4	m.s.			13.4	13.4
8		90 87	9.2	9.10	1.1	13.3				+	+
9		92 89	9.1	9.15	0.1	13.1					
10			10.1		10.1	11.1					
11			10.1		0.83	11.53					
12			11.3	11.4	11.35	0.69					
13			11.8	11.4	11.40	0.67					
14			11.8	11.8	11.80	0.61					
15			12.4	12.4	12.40	0.53					
16			13.2	13.1	13.15	0.58					
17			13.4	13.4	13.40	0.68					
18			+	+							
19			+								
20											

Ch. F. B.

* Images very poor - much elongated making comparison with scale difficult.

Friday October 22, 1915 -

Card.

Scale R

Series 521-

copied.

* Mc 8949 ⁸		Sta	cont	Seq. for Novas.	Con edge of fl.
g	h			Diff. Lm	Alt. + 2 B.C.
sc. 1 sc. 2	sc. 1 sc. 2			sc. 1 set	sc. 1
off fl.	1 .				
	2 H			B B	6.4 6.1
" "	3 .				
	4 B.			7.6 7.1 7.3 7.4	7.9 7.6
	5 t.p.			t.p. t.p.	7.3
" "	6 .				-2.75 6.55
" "	7 .				
	8 t.p.			t.p. t.p.	
	9 t.p.			t.p. t.p.	
	10 t.p.			10.00 L 1 9.9 10.1	10.4?
	11 t.p.			-2.34 7.66	-3.05 7.35?
	12 5.7			10.25 0.1 10.2 10.3	10.3?
	13 5.6			-2.40 7.85	-3.01 7.29?
	14 t.p.			t.p. t.p.	11.7
	15 t.p.			t.p. t.p.	-3.37 8.33
	16 6.6			t.p. t.p.	11.7
	17 7.1			t.p. t.p.	-3.37 8.33
	18 8.1			t.p. t.p.	
	19 8.3			t.p. t.p.	
	20 8.5			t.p. t.p.	
	21 8.5			t.p. t.p.	
	22 9.4			t.p. t.p.	
	23 9.5			t.p. t.p.	
	24 10.3			t.p. t.p.	
	25 10.1			t.p. t.p.	
	26 t.p.			t.p. t.p.	
	27 t.p.			t.p. t.p.	
	28 t.p.			t.p. t.p.	
	29 t.p.			t.p. t.p.	
	30 t.p.			t.p. t.p.	
	31 t.p.			t.p. t.p.	
	32 12.1?			t.p. t.p.	
	33 12.5			t.p. t.p.	
	34 13.1			t.p. t.p.	
	35 12.9			t.p. t.p.	
	36 13.5			t.p. t.p.	
	37			t.p. t.p.	
	38			t.p. t.p.	

Friday October 22, 1915

Card

Scale R

Series 521-

binned

mc 8949

C12.

Undisposed 1^m. Cor. - 0.10

B.C.

Att. +17 - 0.10 = +0.07

	sc.1	sc.2		sc.1	sc.2	Cu.	Magn.
1	B			8.1			
2	B					9.4	-2.78
3	B					9.7	-2.86
4	B					10.4	-3.05
5	B					10.6	-3.09
6	B					11.3	-3.28
7	B					11.3	-3.28
8	B					11.5	-3.31
9	6.2					12.4	-3.50
10	5.9					12.4	-3.50
11	6.1					12.8	-3.58
12	6.5		2.16	8.96		13.1	-3.62
13	6.8		2.07	9.17			
14	7.7		1.82	9.52			
15	7.7		1.82	9.52			
16	7.7		1.82	9.52			
17	8.4						
18	8.1	8.5	8.45 0.1	1.54	9.99		
19	8.6	6.8	8.85 1.0	1.41	10.26		
20		9.5		1.18	10.68		
21		9.8		1.10	10.90		
22							
23							
24							
25							
26							
27							
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99							
100							

Ch. F. C.

182

Friday October 22-1915-

Scale R

Series 521-

Copied.

mc8949

C12

cont.

Alt. +17 - 10 = +0.07

	scz	scz		Cur.	Magn
54	13.21	13.21	13.2000	0.59	13.79
58	13.4 ^{thor}	13.4		0.67	14.07
59	4			.	.
80	4			.	.

Ch. P. G.

Friday October 22-1915

Scale R

Series 521- loquid

mc 8949

D. effr. lmv.

Att. 117 - 10 = +0.07

	g	h		
	sc.1 sc.2	sc.1 sc.2		
1	7.9 1.6 1.85 1.0	7.8 4.5	-1.60	6.25
2	8.4 8.4 0.0 0.0	8.4 8.1	-1.79	6.61
3	9.2 9.35 2.1	9.5	-2.12	7.23
4	8.9	9.2	-2.06	7.14
5	10.1 10.1 0.0 0.0	10.1	-2.36	7.74
6	10.5 10.55 1.0	10.6	-2.50	8.05
7	10.5 10.55 1.0	10.6	-2.50	8.05
8	t.p.	t.p.		
9	11.7 11.65 1.0	11.6	-2.80	8.85
10	11.6 11.60 1.1	11.4	-2.76	8.74
11	12.1 12.1 0.0 0.0	12.1	-2.90	9.20
12	12.3 12.35 1.0	12.4	-2.96	9.39
13	12.7 12.9 2.2	13.1	-3.00	9.90
14	12.9 12.85 1.0	12.8	-3.00	9.85
15	12.8 12.85 0.1	12.9	-3.00	9.85
16	13.5 13.45 1.0	13.4	-3.00	10.45
17	f.	f.		
18				
19				
20				

Ch. S. C.

184

Friday October 22, 1915.

Cand.

Scale R

Series 521- copied.

mc 8950		D12-		P.C.		alt. -18	
sc.1	sc.2			sc.1	sc.2	Cu	Magn
1 B.				10.7	10.7	10.70 00	-311 7.59
2 B.				10.5	10.6 ^{new edge}	10.55 10	-308 7.47
3 B.				11.2			-326 7.94
4 B.				t.p.			
5 5.7				11.4			-330 8.10
6 5.4				12.2			-348 8.72
7 6.2							
8 6.7		2.29	8.79	12.4			-350 8.90
9 6.4		2.20	8.90	12.4			-350 8.90
10 7.0		2.10	9.10	12.9			-359 9.31
11 6.7		2.01	9.21	13.1			-362 9.48
12 7.0		1.86	9.46	13.2			-364 9.56
13 1.3		1.86	9.46	t.p.			
14 1.3		1.74	9.64	t.p.			
15 8.3	8.4	8.50 11	10.02	1.52			
16 8.4	8.5	8.48 01	9.98	1.53			
17 8.5	8.9	8.85 01	10.26	1.41			
18 9.5		1.19	10.69	1.19			
19 9.9		1.07	10.97	1.07			
20 10.1		1.01	11.11	1.11			
21 10.3		0.94	11.24	1.24			
22 10.5		0.89	11.39	1.39			
23 10.5		0.89	11.39	1.39			
24 10.7		0.82	11.52	1.52			
25 11.5		0.66	12.16	1.16			
26 11.6		0.64	12.24	1.24			
27 11.6		0.64	12.24	1.24			
28 11.7		0.62	12.32	1.32			

beh. P.C.

Friday October 22 - 1915.

Scale R

Series 521-

Lupul.

mc8950

D12

Alt. -18

	sc2	sc2		Cm.	Magn
27	12.1			0.57	12.67
+ 28	12.5	12.6	12.55	0.51	13.06
29	12.5	12.5	12.50	0.53	13.03
30	13.1	13.1	13.10	0.56	13.66
31	13.4	13.4	13.40	0.68	14.08
32	13.4	13.5	13.45	0.69	14.14
33	13.6	13.5	13.55	0.72	14.27
34	4	4			
+ 27a	12.3	12.4	12.35	0.53	12.88

Ch. F. C.

186

Friday October 22-1915.

Scale R.

Series 521- leopard.

	mc8950		Diff. Inn.	D12	
	g	h			Alt. -18
	sc.1 sec	sc.1 sec	Cm.	Magn	
1	10.4 10.50 L	10.6	-2.48	8.02	
2	t.p.	t.p.	.	.	
3	10.9 10.65 L	10.6	-2.53	8.12	
4	11.2 11.30 L	11.4	-2.71	8.59	
5	10.8 10.85 0	10.9	-2.59	8.26	
6	11.6 11.55 0	11.5	-2.78	8.77	
7	11.5 11.55 L	11.6	-2.78	8.77	
8	11.8	t.p.	-2.85	8.95	
9	12.4 12.45 0	12.5	-2.98	9.47	
10	12.4 12.45 0	12.5	-2.98	9.47	
11	12.4 12.50 L	12.6	-2.98	9.52	
12	12.4 12.45 0	12.5	-2.98	9.47	
13	12.6 12.70 L	12.8	-3.00	9.70	
14	13.2 13.30 L	13.4	-3.00	10.30	
15	13.2 13.30 L	13.4	-3.00	10.30	
16	13.4 13.40 0	13.4	-3.00	10.40	
16 a	f.	f.	.	.	
17					
18					
19					
20					

Ch. P.C.

Friday October 22, 1915

Card.

Scale R

Series 521-

b.p. 100.

mc 8951		Carte		23 -16.5		Diff. Dm.		Att. - 22.30	
sc 1 sc 2	Cm.	Magn	sc. sc 2	Cm.	Magn	sc 1	Cm.	Magn	sc 1
1 B.	.	10.5	10.6	10.55	10.250	8.05	10.9	3.18	7.72
2 7.0 B	2.10	9.10	11.8	11.8	11.80	00	2.84	8.96	12.16
3 8.2 8.1	8.15 0 1.10.5	9.80	12.4	12.6	12.50	11	2.98	9.52	13.3
4 8.5 8.4	8.45 1 0.15.3	9.98	12.9	13.1	13.00	11	3.00	10.00	14.
5 8.5 8.5	8.65 2 1.14.8	10.13	13.4	13.4	13.40	00	3.00	10.40	14.8.
6 9.4	12.1	10.61	+	+	.	.	.	.	.
7 10.1	10.1	11.11	.	.	.	.	.	.	.
8 10.1	10.1	11.11	.	.	.	.	.	.	.
9 10.6	0.85	11.45	.	.	.	.	.	.	.
10 10.9	0.79	11.69	.	.	.	.	.	.	.
11 10.9	0.79	11.69	.	.	.	.	.	.	.
12 11.2	0.71	11.91	.	.	.	.	.	.	.
13 11.5	0.65	12.15	.	.	.	.	.	.	.
14 11.7	0.62	12.32	.	.	.	.	.	.	.
15 12.15 12.0	0.57	12.72	.	.	.	.	.	.	.
16 12.20 12.0	0.56	12.76	.	.	.	.	.	.	.
17 12.60 12.1	0.52	13.12	.	.	.	.	.	.	.
18 12.9 12.1	0.51	13.31	.	.	.	.	.	.	.
19 13.15 13.0	0.58	13.73	.	.	.	.	.	.	.
20 13.45 13.4	0.60	14.05	.	.	.	.	.	.	.

Ch. F.C.

Scale R

Series 330²

10 -	mc 6342	Tole.	mc 6371	mc 6384-					
	sc.1 sc.2		sc.1 sc.2		sc.1 sc.2				
5									
6									
8									
9									Diff
10	64 6.1		64 6.1		64 6.1		6.40	0 0 0	2.62
11	73 1.0		73 1.0		72 6.9		7.27	0 0 1	2.28
12	77 1.4		78 1.5		77 1.4 B.		7.73	0 1 0	2.13
13	82 1.9 B.		82 1.9 B.		8.1 1.8 8.1	8.10 0 0	8.17	03 03 07	2.13
14	85 8.20 8.1	8.60 1 1	87 8.4 8.5	8.60 1 1	8.6 8.3 8.4	8.50 1 1	8.57	03 03 07	2.08
15	92 8.9 9.2	9.20 0 0	92 8.9 9.2	9.20 0 0	92 8.9 9.2	9.20 0 0	9.20	00 00 00	1.88
16	94		95		9.5		9.47	07 03 03	1.93
17	9.8		9.9		9.8		9.83	03 07 03	1.80
18	10.1		10.4		10.3		10.47	2 $\frac{1}{4}$ 2	1.59
19	10.8		10.9		10.8		10.83	0 1 0	1.59
20	11.2		11.2		10.9		11.10	1 1 2	1.63
23	11.1		11.1 11.8 11.75	1.0	11.6		11.68	02 07 08	1.66
25	12.4 12.6 12.50	1.1	12.4 12.4 12.40	0	12.20 0 0 12.2 12.2		12.37	13 03 17	1.50
26	12.9 12.9 12.90	0 0	12.7 12.9 12.80	1.1	12.78 0 1 12.8 12.7		12.82	08 02 07	1.51
27	13.2 13.3 13.25	0 1	13.2 13.2 13.20	0	13.00 1 1 12.9 13.1		13.15	10 05 15	1.54
28	13.4 13.4 13.40	0 0	13.5 13.5 13.50	0	13.35 0 1 13.4 13.3		13.42	02 08 07	1.69
29	13.8 13.8 13.80		14. 14. 14.00		13.80 0 0 13.8 13.8		13.80	00 1 00	1.86
30	14. 14. 14.00		14. 14. 14.00		14.0 14.0		14.00	1 1 2	2.04

Friday November 12, 1915

Scale R

Series 330.

	Mc 6372	Pole.	Pris. Comp.	
		Mc 6377	Mc 6384	Diff.
	sc.1 sc.2 sc.3	sc.1 sc.2 sc.3	sc.1 sc.2 sc.3	
5	⁸⁴ 8.1 8.40 0.0 8.4	⁸² 19.8 2.0 0.0 8.2	⁸⁴ 8.1 8.25 2.1 8.1	8.28 12 08 03 - 1.79
6	⁹² 8.9 9.05 2.1 8.9	⁹⁰ 8.1 8.95 0.1 8.9	⁹¹⁵ 9.2 9.1 10.35 0.1	9.05 00 15 10 - 1.94
8	¹⁰⁴⁵ 10.5 10.4	¹⁰⁵⁰ 10.6 10.4	¹⁰⁴ 10.4 10.3	10.43 02 07 08 - 2.20
9	^{11.10} 11.1 11.1	^{11.15} 11.1 11.2	^{11.10} 11.1 11.1	11.12 02 03 02 - 2.29
10	^{11.15} 11.1 11.2	^{11.45} 11.6 11.3	^{11.40} 11.4 11.4	11.33 18 12 07 - 2.31
11	12.2	12.2	12.1	12.17 0 0 1 - 2.62
12	12.5	12.4	12.3	12.40 1 0 1 - 2.54
13	^{12.7} 12.2 w.s.	13.2	12.9	12.93 ³ 2.5 0.8 - 2.63
14	13.1	13.3	13.2	13.20 1 1 0 - 2.55
15	13.5	13.8	13.5	13.60 1 2 1 - 2.52
16	f.	f.	f.	
17				
18				
19				
20				

190

Friday November 12, 1915

Scale R

Series 33⁰-

Copied.

Inc 6373

Carte

19 - 2.5°

Alt +03

P.C.

sc.1 sc.2 sc.3

Cu.

Magn

sc.1 sc.2 sc.3

Cu.

Magn

1	B.					10.8	10.8	10.80 00	-2.26	8.54
2	B.					11.8	11.7	11.75 01	-2.44	9.31
3	1.5		2.22	10.02		12.5	12.6	12.55 10	-2.56	9.99
4	1.5		2.22	10.02		12.5	12.6	12.55 10	-2.55	9.95
5	1.1 B.		2.17	10.17		12.8	12.9	12.85 01	-2.56	10.29
6	8.3 8.3	8.45 2 1	2.09	10.54		13.3			-2.55	10.75
7	8.4 8.6	8.65 1 0	2.04	10.69		13.4			-2.54	10.86
8	8.4 8.6	8.65 1 0	2.04	10.69		13.6			-2.52	11.08
9	8.9 9.1	9.15 0 1	1.94	11.09		def?				
10	10.3		1.70	12.00						
11	10.3		1.70	12.00						
12	10.4		1.68	12.08						
13	10.7		1.64	12.34						
14	11.0		1.60	12.80						
15	11.1		1.60	12.70						
16	11.25 1 0									
17	11.3 11.21		1.59	12.84						
18	11.35 1 0									
19	11.3 11.4		1.59	12.94						
20	11.80 0 0									
21	11.8 11.8		1.57	13.37						
22	12.40 0 0									
23	12.4 12.4		1.56	13.96						
24	13.40 0 0									
25	13.4 13.4		1.66	15.06						

(On Pl. cover)
New No.

10a =

11 = 12

12 = 13

13 = 14

15 = 15

14 = 15

15 = 16

16 = 17

18 = 19

19 = 20

Numbers changed by H.S.L. Jan. 26, 1916. Also changed in Book 10

Friday November 12, 1915

Scale R

Series 33^omc637⁴

Dm.

19 +5.0

PC.

sc1 sc2

sc1 sc2 sc2

Cm. Magn.

1	B					9.8	9.8	9.80	00	-2.08	7.72
2	B					10.5	10.5	10.50	00	-2.21	8.29
3	B					11.4	11.3	11.35	01	-2.36	8.99
4	B.					12.3	12.3	12.30	00	-2.52	9.78
5	13		2.27		9.87	12.5	12.5	12.50	00	-2.55	9.95
6	14	B.	2.25		9.95	12.8				-2.57	10.23
7	8.6	8.8	8.85	1.0	2.00	10.85	13.6			-2.52	11.08
8	8.9	9.4 ³	9.25	0.1	1.91	11.16	13.8				
9	9.4		1.87		11.27	w.s.					
10	10.3		1.70		12.00						
11	10.5	10.4	10.45	1.0	1.67	12.12					
12	10.5	10.4	10.45	1.0	1.67	12.12					
13	10.5	10.6	10.55	1.0	1.66	12.21					
14	10.8		1.62		12.42						
15	11.6		1.58		13.18						
16	12.3	12.3	12.30	1.55	13.85						
17	12.2	12.5	12.35	1.55	13.90						
Imm. very sharp 18	12.8 [?]	+p.	1.56		14.36 [?]						
19	12.9	13.1	13.00	1.58	14.58						
20	13.5	13.7	13.60	1.73	15.33						

Friday November 12, 1915.

Scale R.

Series 338⁸

Copied.

	Ono 6375	Carte	19 ^h + 10.	Alt + 14
			P.C.	
	sc.1 sc.2		sc.2 sc.2 sc.2	Cur.
1	Q.	.	10.5 10.6 10.55	10 - 2.22 8.33
2	Q.	.	11.3 11.4 11.35	10 - 2.37 8.98
3	Q.	.	11.5 11.4 11.45	10 - 2.39 9.06
4	^{4.6} 1.3 B.	2.27	9.87	12.4 12.4 12.40 00 - 2.54 9.86
5	^{8.6} 8.3 8.6	8.60 00 2.06	10.66	13.3 13.4 13.35 10 - 2.55 10.80
6	^{8.8} 8.5 8.5 ¹	8.75 01 2.01	10.76	13.7 - 2.50 11.20
7	^{9.2} 8.9 9.1	9.15 01 1.94	11.09	1.10?
8	^{9.2} 8.9 9.2	9.20 00 1.92	11.12	14.0
9	9.2	1.92	11.12	
10	9.3	1.90	11.20	
11	9.4	1.88	11.28	
12	9.4	1.88	11.28	
13	9.6	1.83	11.43	
14	9.9	1.77	11.67	
15	10.4	1.68	12.08	
16	^{0 0} 10.8 10.8 10.80	1.62	12.42	
17	^{0 0} 11.4 11.4 11.40	1.59	12.99	
18	^{1 0} 11.7 11.6 11.65	1.58	13.23	
19	^{0 0} 12.5 12.5 12.50	1.56	14.06	
20	^{1 2} 12.9 13.2 13.05	1.58	14.63	

Friday November 12, 1915

Scale R.

Series 331°

Copied.

Mc 6376		Corte		19 + 55		Alt + 21	
sc.1 sc.2		Cu.		P.C.			
				sc.1 sc.2 sc.2		Cu. Magn	
1	B	.		10.6	10.6	10.60 00	-2.23 8.37
2	B	.		11.7	11.6	11.65 10	-2.42 9.23
3	B. B	.		12.5	12.4	12.45 10	-2.55 9.90
4	^{8.2} 1.9 8.1	8.15 01	2.14	10.29	13.3	13.1	13.20 11 -2.56 10.64
5	^{8.6} 8.3 8.1	8.65 01	2.04	10.69	13.5	13.4	13.45 10 -2.54 10.91
6	^{9.0} 8.1 9.1	9.05 01	1.96	11.01	13.9		
7	9.2	1.92		11.12	5.		
8	10.1	1.74		11.84			
9	10.20	1.72		11.92			
10	10.6	1.65		12.25			
11	10.8	1.62		12.42			
12	11.1	1.60		12.70			
13	11.5	1.58		13.08			
14	11.5	1.58		13.08			
15	11.6	1.58		13.08			
16	11.6 11.7	11.65 00	1.57	13.22			
17	12.2 12.2	12.20 00	1.56	13.76			
18	12.2 12.2	12.20 01	1.56	13.76			
19	13.2 13.1	13.15 00	1.59	14.74			
20	13.7 13.7	13.70 00	1.79	15.49			

194

Friday November 12, 1915

Scale R

Series 338.

Copied.

me 6378.		Carte		20 + 5.0°		alt + 11	
				P.C.			
sc.1	sc.2	Cu.	Magn	sc.1	sc.2	sc.2	Cu. Magn
1 B.		.	.	10.2	10.1	10.15 0 1 - 2.15	8.00
2 B		.	.	10.6	10.1	10.65 0 1 - 2.24	8.41
3 B.		.	.	11.1	11.6	11.65 1 0 - 2.42	9.23
4 ⁷⁹ 1.6		2.20	10.10	12.6	12.9	12.75 2 1 - 2.57	10.18
5 ⁸⁰ 1.1 B.		2.18	10.18	12.6	13.1	12.85 2 3 - 2.57	10.28
6 ⁸⁶ 8.3	8.4 8.50 1 1	2.08	10.58	13.3		- 2.56	10.74
7	9.1	1.81	11.51	thru		.	.
8	9.9	1.77	11.67	n.s.		.	.
9	10.4	1.68	12.08				
10	film 8 cr.	.	.				
11	11.2	1.59	12.79				
12	11.8	1.57	13.37				
13	11.9	1.56	13.46				
14	12.3	1.56	13.86				
15	12.30 0 0 12.3 12.3	1.56	13.86				
16	12.65 0 1 12.6 12.1	1.55	14.20				
17	12.90 0 0 12.9 12.9	1.56	14.46				
18	film 5 cr. 3 cr.	.	.				
19	13.35 1 0 13.3 13.4	1.64	14.99				
20	13.50 1 1 13.4 13.6	1.69	15.19				

Friday November 12, 1915

Scale R

Series 331.

Copied.

Mc 6378

SX Aquilae

20 + 50

alt + 11

P.C.

sc.1 sc.2

sc.1 sc.2

Cu. Magn

a B.				11.6	-2.41	9.19
c B.				too close to br. star.		
b B.				12.2	-2.51	9.69
a' 10	2.35	9.65	12.2	-2.51	9.69	
e 16	2.20	10.10	12.1	-2.56	10.14	
d 13	2.27	9.87	12.6	-2.57	10.03	
b' 12	2.12	10.32	13.1	-2.56	10.54	
c' 11	8.1	8.15 0.1 2.14	10.29	13.4	-2.54	10.86
d' 10	8.3	8.35 0.1 2.10	10.45	f.		
e' 9	8.5	8.55 0.1 2.07	10.62	f.		
f' 8	9.0	8.95 1.0 1.99	10.94	f.		
g' 7	9.1	9.10 0.0 1.94	11.04	f.		
h' 6	9.6	1.83	11.43			
i' 5	9.3	1.90	11.20			
j' 4	9.5	1.85	11.35			
k' 3	9.8	1.79	11.59			
l' 2	10.4	1.68	12.08			
m' 1	10.3	1.70	12.00			
n' 0	10.6	1.65	12.25			
o' -1	10.8	1.62	12.42			
p' -2	11.3	1.59	12.89			
q' -3	11.55 0.1					
r' -4	11.6 11.5	1.58	13.13			
s' -5	11.60 0.0					
t' -6	11.6 11.6	1.58	13.18			
u' -7	12.10 0.0	1.56	13.66			
v' -8	12.1 12.1					
w' -9	12.60 1.1	1.56	14.16			
x' -10	12.7 12.5					
y' -11	13.30 0.0	1.63	14.93			
z' -12	13.3 13.3					
aa' -13	f.					
Var 1.9	2.20	10.10	13.4	-2.54	10.86	

196

Friday November 12, 1915 -

Scale R

Series 331 -

Copied.

Mc 6381

D 11

21 - 15

alt - 18

P.C.

sc. 1 sc. 2

Cu.

Magn. sc. 1 sc. 2

Cu.

Magn.

1 B

9.5 9.5 9.50 00

- 2.01

7.49

2 B

9.9 10.0 9.98 10

- 2.10

7.85

edge.

3 B.

t.p.

.

.

4 B

9.9 10.1 10.00 11

- 2.11

7.89

5 B

10.1 10.1 10.10 00

- 2.14

7.96

edge.

6 .

t.p.

.

.

7 B

10.4 10.4 10.40 00

- 2.19

8.21

8 B.

10.3 10.4 10.35 10

- 2.18

8.17

9 B.

10.6 10.7 10.65 01

- 2.24

8.41

10 B.

10.5 10.7 10.60 11

- 2.23

8.37

11 B.

11.2

- 2.33

8.87

12 B

11.3

- 2.35

8.95

13 B.

11.6

- 2.41

9.19

14 7.8
7.2

2.30

9.80

12.2

- 2.51

9.69

15 t.p.

12.3

- 2.53

9.77

16 t.p.

12.7

- 2.56

10.14

17 8.0
7.7

2.17

10.17

13.2

- 2.55

10.65

18 8.2
7.9

2.12

10.32

t.p.

.

.

19 t.p. B.

13.1

- 2.56

10.54

20 8.4
8.1

8.30 11 2.10

10.40

13.1

- 2.56

10.54

21 8.7
8.4

8.60 11 2.05

10.65

13.4

- 2.54

10.86

22 8.5
8.2

8.50 00 2.08

10.58

13.4

- 2.54

10.86

23 9.1
8.8

9.15 10 1.94

11.09

13.5

- 2.53

10.97

24 8.8
8.5

8.75 01 2.01

10.76

13.4

- 2.54

10.86

25 8.4
8.1

1.85

11.35

t.p.

7

.

26

1.83

11.43

Friday November 12, 1915.

Scale R

Loree's 331-

mc 6381

D11

sc 2 sc 2

Cm.

Magn

27	99			176	11.66
28	10.2			172	11.92
29	10.5			166	12.16
30	10.9			161	12.51
31	11.3			159	12.89
32	11.3			159	12.89
33	11.4			158	12.98
34	11.8			157	13.37
35	11.9			156	13.46
36	11.8			157	13.37
37	12.4 ⁴	12.5 12.45 0 1	155		14.00
38	12.5 ⁵	12.6 12.55 1 0	155		14.10
39	12.7	12.7 12.70 0 0	155		14.25
40	13.4	13.3 13.35 0 1	164		14.99
41	13.4	13.3 13.35 0 1	164		14.99
42	13.7	13.7 13.70 0 0	179		15.49
43	13.8	13.9 13.85 0 1	187		15.72
44	±	±	.		.
45	n.s.	n.s.	.		.

198

Friday November 12, 1915.

Scale R

Series 331-

~~110~~Mc 6382³~~Jupiter~~ ^{5m.}~~21 03 -17.9 21 20 +10.0~~

P.C.

	sc.1	sc.2	Cu.	Magn	sc.1, sc.2	sc.3	Cu.	Magn
1	B.		.	.	10.6	10.6	10.60	0 0 -2.23 8.37
2	B.		.	.	11.7	11.5	11.60	1 1 -2.41 9.19
3	⁷⁴ 7.1		2.31	9.71	too close to br. star			
4	⁶⁹ 6.6		2.48	9.38	12.1	12.1	12.10	0 0 -2.50 9.60
5	⁷⁴ 7.1	B.	2.31	9.71	12.4	12.3	12.35	0 1 -2.54 9.81
6	⁸⁴ 8.1	8.3	8.35	0 1 2.10	10.45	13.1	13.1	13.10 0 0 -2.56 10.54
7	⁸⁴ 8.1	8.1	8.25	2 1 2.11	10.36	13.1		-2.56 10.54
8	⁹⁰ 8.7	8.9	8.95	0 1 1.98	10.93	13.5		-2.53 10.97
9	9.3		1.90	11.20	t.f.			
10	9.9		1.77	11.67				
11	10.20		1.71	11.91				
12	10.6		1.65	12.25				
13	11.3		1.59	12.89				
14	11.3 ³		1.59	12.89				
15	11.8		1.57	13.37				
16			^{0 1}		12.2	12.1	12.15	1.56 13.71
17			^{0 0}		12.3	12.3	12.30	1.56 13.86
18			^{0 1}		12.6	12.5	12.55	1.56 14.11
19			^{0 0}		12.9	12.9	12.90	1.56 14.46
20			^{1 1}		13.4	13.4	13.40	1.63 14.93

12.55 1.10

Friday November 12, 1915 -

Scale R

Series 331 -

me 63882

~~31 20 + 100~~

Dm. Jupiter.

P.C.

sc.1 sc.2

pc.1 sc.2

1

2

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4

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19

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35°

Out in Dec.

200

Monday November 15, 1915

Scale R.

Series 528.

9:30

mc 9042

Pole.

9048

B.C.

mc.
9048

sc.1 sc.2

sc.1 sc.2

sc.1 sc.2 sc.1 sc.2

Diff.

5

6

8

9

Diff.

6.85 3 2

7.70 0 0

8.00 10 10

8.80 20 20

9.28 12 13

9.85 1 0

10.50 1 1

10.70 0 0

11.40 20 20

11.78 03 02

12.22 13 12

13.00 20 20

13.48 03 02

2.17

1.85

1.86

1.50

1.37

1.23

0.90

0.93

0.66

0.64

0.51

0.34

0.39

7.1

6.8

7.7

7.4

8.1

8.6

8.9

9.1

9.4

9.9

10.6

10.9

11.6

11.7

11.8

12.3

12.8

13.4

13.5

13.45

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6.2

7.7

7.4

7.9

7.6

8.7

8.4

8.9

9.8

10.4

10.9

11.2

11.7

11.8

12.1

12.8

13.4

13.5

13.45

13.5

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13.5

13.5

8.10 0 0

9.00 1 1

9.4

9.9

10.6

10.9

11.6

11.7

12.3

12.8

13.4

13.5

13.45

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13.5

8.10 0 0

9.00 1 1

9.4

9.9

10.6

10.9

11.6

11.7

12.3

12.8

13.4

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13.45

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13.5

8.10 0 0

9.00 1 1

9.4

9.9

10.6

10.9

11.6

11.7

12.3

12.8

13.4

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13.45

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13.5

13.5

13.5

90

8.1

8.95

0.1

8.9

8.6

10.1

9.85

3.2

9.6

11.5

11.50

0.0

11.5

12.5

12.35

1.2

12.2

12.1

12.65

1.0

12.6

13.4

13.40

0.0

13.4

13.6

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

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t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

90

8.1

8.95

0.1

8.9

8.6

10.1

9.85

3.2

9.6

11.5

11.50

0.0

11.5

12.5

12.35

1.2

12.2

12.1

12.65

1.0

12.6

13.4

13.40

0.0

13.4

13.6

t.f.

t.f.

t.f.

t.f.

t.f.

t.f.

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t.f.

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t.f.

t.f.

t.f.

t.f.

90

8.1

8.95

0.1

8.9

8.6

10.1

9.85

3.2

9.6

11.5

11.50

0.0

11.5

12.5

12.35

1.2

Monday November 15, 1915

Scale R

Series 528-

mc9042		Pole.	Differ. Inv.		Diff
g	h		g	h	
sc.1 sc.2 sc.1 sc.2			sc.1 sc.2 sc.1 sc.2		
97 5 8.4 8.60 1 8.5	8.2		8.1 1.8 8.10 00 8.1	8.35 25 2.5	-1.86
6 9.5 9.40 1 9.3			9.1 8.8 9.05 1 9.0	9.22 18 1.2	-2.11
8 10.9 10.85 1 10.8			10.6 10.60 00 10.6	10.72 13 1.2	-2.49
9 11.6 11.60 00 11.6			11.1 11.10 00 11.1	11.65 05 0.5	-2.82
10 12.2 12.25 0 12.3			12.2 12.20 00 12.2	12.22 03 0.2	-3.20
11 12.8 12.80 00 12.8			t.p. t.p. 12.80 0 1		-3.25
12 12.9 12.05 1 13.2			13.2 13.25 0 13.3	13.15 10 1.0	-3.29
13 13.1 13.75 1 13.8			13.5 13.60 1 13.7	13.68 07 0.8	-3.38
14 14.0 14.00 00 14.0			1 1 14.00 0 1		-3.35
15 I I.					
16					
17					
18					
19					
20					

Rain. Very dark during observations.

202

Monday November 15, 1915

Card.

Scale B

Series 528

Copied.

mc 9043

D 11-

Alt - 38

edge.

	Sc. 1	Sc. 2	Cu.	B.C.	Sc. 1	Sc. 2	Cu.	Magn.
1 B				t.p.				
2 B				t.p.				
3 B.				11.4	-3.27		8.13	
4 B				11.5?	-3.30		8.20?	
5 B.				11.6	-3.32		8.28	
6 B				t.p.				
7 B.				t.p.				
8 B.				11.3	-3.22		8.08	
9 B.				t.p.				
10 ⁶⁷ 6.4			2.19	8.89	t.p.			
11 ⁷¹ 6.8			2.07	9.17	13.2	-3.75	9.45	
12 ⁷⁷ 7.4			1.90	9.60	t.p.			
13 ⁷⁷ 7.4 B			1.90	9.60	13.5	-3.77	9.73	
14 ⁸⁴ 8.1 8.4	8.40	0.0	1.65	10.05	t.p.			
15 ⁹¹ 8.8 9.0	9.05	1.0	1.44	10.49	t.p.			
16 ⁹¹ 8.8 9.1	9.10	0.0	1.42	10.52	n.s.			
17 ⁹² 8.9 9.2	9.20	0.0	1.39	10.59				
18 9.5			1.30	10.80				
19 9.9			1.17	11.07				
20 9.9			1.17	11.07				
21 10.2 10.1	10.15	0.1	1.09	11.24				
22 9.9 10.0	9.95	1.0	1.15	11.10				
23 10.5			0.97	11.47				
24 10.4			1.00	11.40				
25 10.9			0.85	11.75				
26 11.2			0.76	11.96				

Monday November 15, 1915

Scale R

Series 528

	mc 9043				D 11	cont.
					Cu.	Magn.
	sc 2 sep					
24	11.6	11.5	11.55	0.1	0.67	12.22
28	11.4	11.5	11.45	0.1	0.70	12.15
29	12.3	12.3	12.30	0.0	0.50	12.80
30	12.5	12.6	12.55	1.0	0.46	13.01
31	13.3	13.4	13.35	1.0	0.37	13.72
32	13.4	13.4	13.40	0.0	0.36	13.76
33	13.4	13.4	13.40	0.0	0.36	13.76
34	13.5	13.5	13.50	0.0	0.36	13.86
35	13.8	13.8	13.80	0.0	.	.
36	t.p.	t.p.	.	.	.	.
37	ms.	ms.	.	.	.	.

Monday November 15, 1915 -

Scale R

Series 528.

	mc 9043		Diff. Inv.	1911 -
	g	h		
	sc.1 sc.2	sc.1 sc.2	Cu.	Magn
1	10.3 10.25	10.2	-2.44	7.81
2	t.p.	t.p.	.	.
3	t.p.	t.p.	.	.
4	t.p.	t.p.	.	.
5	10.7 11.0	11.3	-2.70	8.30
6	t.p.	t.p.	.	.
7	11.6 11.5	11.4	-2.86	8.64
8	t.p.	t.p.	.	.
9	12.2 11.95	11.7	-3.00	8.95
10	12.2 11.95	11.7	-3.00	8.95
11	12.4 12.4	12.4	-3.14	9.26
12	t.p.	12.5	-3.17	9.33
13	13.1 12.9	12.7	-3.27	9.63
14	t.p.	13.3	-3.33	9.97
15	t.p.	f.	.	.
16	f.	.	.	.
17				
18				
19				
20				

Monday November 15, 1915

Cand.

Scale R

Series 528-

Alt +16

mc9044

65 K.

Diff. In.

P.C.

	sc.1	sc.2	sc.3	Cu.	g	h		sc.2
1	^{6.8} 6.5			2.15	8.95	11.9	11.9	11.90 00-2.99 8.91 12.5-3.59 8.91
2	^{8.5} 8.2	8.6	8.55	1.0	1.59	10.4	13.6	-3.36 10.24 m.s.
3		10.4		1.00		11.04	m.s. m.s.	
4		10.4		1.00		11.04		
5		10.4		1.00		11.04		
6		11.8		0.61		12.41		
7		12.4		0.48		12.88		
8		12.8	12.7	^{0.1} 12.75	0.44	13.19		
9		13.1	13.4	^{1.2} 13.45	0.38	13.63		
10		13.1	13.6	^{1.0} 13.65				
11		13.8	13.9	^{0.1} 13.85				
12		14.0	13.9	^{0.1} 13.95				
13		m.s.	m.s.					
14								
15								

206

Monday November 15, 1915.

Cand.

Scale R.

Series 528.

Copied.

mc9045			Carte	21 + 55.	Ret + 17	P.C.		
sc.1	sc.2	sc.3	Cu.	g	h	sc.2	Cu	
1	B. 72		.	103	103	10.30	00	-2.45 7.85 10.4 -2.93 7.47
2	69 B		204	9.24	12.3	12.4	12.35	10 -3.12 9.23 13.2 -3.75 9.45
3	87 84	8.55	12.159	10.14	13.4	13.4	13.40	00 -3.34 10.06 f. . .
4	93 9.0	9.4	9.35	10.70	m.s.	m.s.		
5	99		1.17	11.07				
6	106		0.94	11.54				
7	11.1		0.79	11.89				
8	11.4		0.71	12.11				
9	11.5		0.70	12.20				
10	12.4		0.48	12.88				
11	12.8		0.42	13.22				
12	12.8	12.8	12.80	00	0.42			13.22
13	13.4	13.4	13.40	00	0.37			13.77
14	13.4	13.5	13.45	01	0.36			13.81
15	13.4	13.5	13.60	11	0.35			13.95
16	13.9	13.1	13.80	11				.
17	f. f.		.					.
18	m.s.		.					.

Monday November 15, 1915

Cand.

Scale R

Series 528.

Oct - 44

	me 90 46	Eros. C.S.	21 06 - 13.3	
			Diff. In.	P.C.
	sc.1 sc.2	Cw.	Magn g h	sc.2
1	7.1 B.	.	116 t.p.	-290 8.70 126 - 363 8.97
2	6.8 B.	2.07	9.17 12.5 12.6 12.55 L 0 - 3.18	9.37 13.4 - 3.76 9.64
3	9.21	1.39	10.59 n.s. n.s.	n.s. . .
4	10.1	1.10	11.20	
5	10.8	0.88	11.68	
6	11.1	0.79	11.89	
7	11.6 11.5 11.55 L 0	0.68	12.23	
8	11.7 11.8 11.75 L 0	0.63	12.38	
9	12.1 12.2 12.15 L 0	0.52	12.67	
10	12.7 12.8 12.75 L 0	0.63	13.38	
11	13.4 13.4 13.40 0 0	0.37	13.77	
12	t.p. n.s.	.	.	
13	n.s.	.	.	
14	n.s.	.	.	
15				

Monday November 15, 1915 -

Card.

Scale 12

Copied.

Mc9047		Corte		22 + 17.5		Alt + 14	
sc.1	sc.2	Cu.	g h	sc.1	sc.2	G.C.	
1 B		.	10.2	10.2	10.20	00-243	7.77 10.6 - 3.00 7.60
2 6.7		2.19	8.89	12.3	12.4 ³	12.30 00-311	9.19 t.p. . .
3 7.5	B	2.06	9.56	12.6 ^{hor}	12.7	12.65 01-320	9.45 13.1 - 3.78 9.92
4 8.2	8.1	8.15 01 174	9.89	13.4	13.4	13.40 00-334	10.06 14.0 ^{hor} . .
5 8.2	8.4	8.30 1 1 169	9.99	13.6	13.9	13.75 21 - 337	10.38
6 8.9	9.1	9.00 1 1 145	10.45	n.s.	n.s.	.	.
7	9.4	1.33	10.73				
8	10.5	0.97	11.47				
9	11.1	0.79	11.89				
10	11.8	11.6 11.70 11 064	12.34				
11	12.4	12.4 12.40 00 048	12.88				
12	12.8	12.8 12.80 00 042	13.22				
13	13.3	t.p. 0.38	13.68				
14	13.3	13.4 13.35 1.0 0.37	13.72				
15	13.9	13.7 13.80 1.1	.				
16	n.s.	n.s.	.				
17							
18							
19							
20							

See next page -
omitted by mistake

210

Saturday November 20, 1915

Sheet 66

Scale M

Sc. measures of Am plate for H.C. Regions.

11:11

Am 10273

E 2

4 - 45°

	sc1	sc2	Diff. from series	Cu	Magn	Diff	Cu	Magn
1	5.3 ^{5.5}	5.5	1.60	1.88	7.38	1.52	1.56 7.02	7.06
2	5.5 ^{5.7}	5.70 00	2.08	1.85	7.55	1.83	1.60 7.53	7.30
3	5.6 ^{5.8}	5.70 12	1.79	1.85	7.55	1.78	1.60 7.48	7.30
4	5.6 ^{5.8}	5.80 00	1.76	1.84	7.64	1.58	1.63 7.28	7.43
5	5.8 ^{6.0}	6.05 01	2.20	1.81	7.86	1.73	1.66 7.78	7.71
6	6.3 ^{6.5}	6.45 10	1.73	1.80	8.25	1.47	1.73 7.92	8.18
7	6.3 ^{6.5}	6.45 10	2.14	1.80	8.25	1.77	1.73 8.22	8.18
8	6.3 ^{6.5}	6.40 12	.	1.80	8.28	1.94	1.73 8.34	8.13
9	6.4 ^{6.6}	6.65 01	1.73	1.80	8.45	1.71	1.76 8.38	8.41
10	6.4 ^{6.6}	6.65 01	1.81	1.80	8.45	1.77	1.76 8.42	8.41
11	6.5 ^{6.7}	6.70 00	1.86	1.80	8.50	1.78	1.77 8.48	8.47
12	6.6 ^{6.8}	6.80 00	1.79	1.80	8.60	1.68	1.78 8.48	8.58
13	6.7 ^{6.9}	6.85 10	1.82	1.81	8.66	1.87	1.80 8.72	8.65
14	6.8 ^{7.0}	7.15 21	1.81	1.84	8.99	1.77	1.84 8.92	8.99
15	7.5		1.78	1.89	9.39	1.76	1.89 9.26	9.39
16	7.3 ^{7.5} <i>very poor</i>		1.82?	1.87	9.17?	1.91	1.86 9.21	9.16
17	7.7		.	1.93	9.63	.	1.93	9.63
18	7.6		1.59	1.90	9.50	1.71	1.92	9.52
19	7.6 ^{7.8}		2.12 ⁸	1.90	9.50 ⁸	2.10	1.92	9.52
20	7.9		2.05	1.96	9.86	1.87	1.96	9.86
21	8.2 ^{8.4}		2.98	2.00	10.20	2.11	2.00	10.20
22	8.6		1.97	2.06	10.66	1.88	2.04	10.64
23	8.6		1.97	2.06	10.66	1.88	2.04	10.64
24	8.7		2.08	2.07	10.77	2.01	2.06	10.76
25	8.9		2.30	2.12	11.02	2.24	2.08	10.98
26	9.1		2.32	2.15	11.25	2.21	2.10	11.20

Saturday November 20, 1915.

Scale m.

Sc. measures cont.

Dm 10273

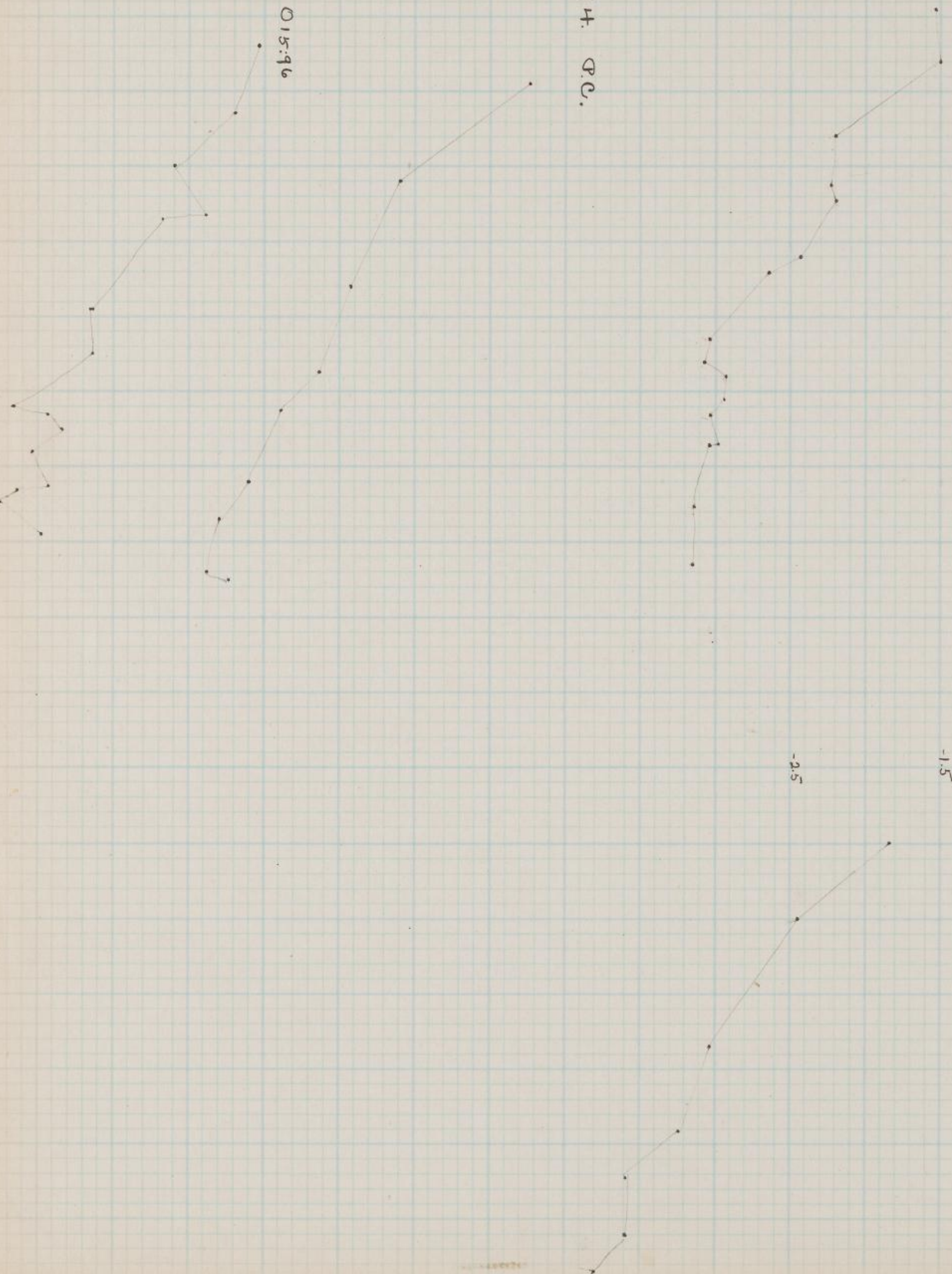
E2

cont.

	ac ₂	ac ₂		Diff from series	Cu	Magn	Diff	Cu	Magn
27	9.5	94	9.4510	.	2.22	11.67	.	2.13	11.56
28	9.6	96	9.6000	2.15	2.25	11.85	2.10	2.14	11.74
29	9.5	96	9.5510	2.07	2.24	11.79	2.04	2.14	11.69
30	t.p. def?		.	.			.		
31	9.8	98	9.8000	2.40	2.28	<u>12.08</u>	2.26	2.15	11.95
32	m.s. m.s.								
33									
34									
35									
36									
37									

Region near peak of δt .
 mc5694. 01594
 Remembrance of Old day with near day. $t = \text{Rd'g for Old day.}$
superficial. Hint for more plots
 mc5722 01596
 mc5694. D.C.
 mc5722 D.C.

5 6 7 8 9 10 11 12 13 14 8 9 10 11 12 13 14



1915phae.proj.10690

Region near peak of it.

Remembrance of Old day with new day.

$x = \text{Rd'g for Old day.}$
 $y = \text{mean of the 9 or 10.}$

1915phae.proj.10690