

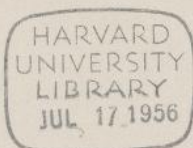
KG
11366
057

Observing Book IV
M. J. Reilly

KG 11366.057

This book has been examined through page 217
by F. C. and ^{magnitudes of} faint stars undulined according to
system.

KG 11366.057



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BK IV. M.E.O.R.

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~~4-5~~

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4-5

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Friday June 13, 1913

Scale m.

Circumpolar Variables. R Aurigae

2:25

Scale measures, on 1' Plates, of Comparison stars. alt. -0.24

I 36131

pc.1 pc.2

Circ. Magn.

P.C.

Circ. Magn.

wr. unit

a 1.4 1.6

1.6 a.

1.50 1.1

7.8 8.0 1.8 7.80 0.0

b 3.3 3.5

3.5 a.

9.5 9.7 9.6 9.55 1.0 -1.58 7.97

*c 3 4.5 3.7

3.7 a.

9.7 9.9 9.6 9.65 1.0 -1.57 8.08

c² 3.9 4.1 4.4

4.25 1.2

9.9 10.1 9.9 9.90 0.0 -1.54 8.36

d 4.6 4.8 4.9

4.77 2.01

9.8 9.9 9.85 0.1 -1.54 8.31

e 4.8 5.0 5.3

5.15 2.1 3.60

8.75 11.5

f 6.2 6.4 6.3

6.35 0.2 3.23

9.58 11.1

g 6.4 6.6 6.6

6.60 0.0 3.17

9.77 11.0

g² 7.0 7.2 7.1

7.3 7.20 0.1 3.03

10.23 10.36

g³ 7.6

7.6 7.60 0.0 2.97

10.57 10.70

h 7.7

7.6 7.65 1.0 2.97

10.62 10.75

k 7.7

7.7 7.70 0.0 2.96

10.66 10.79

l 8.2

8.2 8.20 0.0 2.98

11.18 11.31

m 8.9

8.9 8.90 0.0 3.04

11.94 12.08

n 8.4

8.5 8.45 0.1 3.00

11.45 11.59

o 8.7

8.6 8.65 1.0 3.01

11.66 11.80

o' 9.2

9.2 9.20 0.0 3.09

12.29 12.43

p

R

13.18

p' q

9.8 9.9 9.85 0.1 3.19

13.04 13.18

q

10.0 10.0 10.00 0.0 3.20

13.20 13.34

*c

d

9.4 9.4 9.40 0.0 -1.60 7.80

*g

6.2 6.4 6.4

6.40 0.0 3.22 9.62

Friday June 13, 1913.

Scale m.

Bicircular Variables.

Scale measures on 5" Plates.

R. Aurigae.

 ± 361.31

cont.

pc.1 sc.2

Diff.
H.C.B. 170

P.C.

Diff.
H.C.B. 170

Polar Seq.

5
6
8
9
10
11
12
13
14
15
16
17
18
19
20
23
25

8.1	8.2	8.15	10	-1.76
8.6	8.7	8.65	01	-1.67
9.8	9.7	9.75	01	-1.65
10.1?	10.1?	10.1?	01	-1.40

4.9	5.1	5.4	5.25	12	3.64
6.0	6.2	6.3	6.25	01	3.17
6.4	6.6	6.5	6.55	01	3.18
6.9	7.1	7.3	7.20	11	2.97
7.5	7.5	7.5	7.50	00	3.02
7.7	8.2	7.95	32	2.99	
8.3	8.3	8.30	00	2.96	
8.4	8.5	8.45	01	3.04	
8.7	8.8	8.75	10	3.17	
9.5	9.2	9.35	12	2.93	
9.6	9.4	9.50	12	3.09	
10.0	9.8	9.90	12	3.30	

w. unit

3:10

6

Saturday June 14, 1913

Scale M

= 1.58

Bicircular Variables

S Cassiope

Scale measures of Comp stars alt +0.11

I 36129.

sc.1 sc.2 sc.3

Circ. Magn.

P.C.

Circ. Magn.

too far from center

a

8.3

8.4

8.35 ± 0.167 6.68

b

3.4 3.6 B.

3.62

def.

c

3.4 3.7 3.9 4.1

3.87 ± 0.02

9.5

9.5

9.50 ± 0.140 8.10

d

9.9

9.9

9.90 ± 0.131 8.59

e

4.4 4.6 4.8 4.9

4.77 ± 0.01

f

3.7 3.9 4.2

4.05 ± 0.02

g

3.7 3.9 4.0

3.95 ± 0.01

h

h'

5.4 5.6 5.7

5.65 ± 0.01 3.37

9.02

k

6.6 6.8 6.6

6.70 ± 0.02 3.29

10.12

l

6.6 6.8 6.9

6.85 ± 0.01 3.27

10.12

m

6.5 6.7 6.6

6.65 ± 0.01 3.29

10.07

n

8.4

8.4

8.40 ± 0.00 3.22

11.62

o

7.6

7.7

7.65 ± 0.01 3.23

11.02

o'

8.1

8.1

8.10 ± 0.00 3.21

11.31

p

8.4

8.4

8.40 ± 0.00 3.22

11.62

q

8.6

8.6

8.60 ± 0.00 3.23

11.83

r

8.7

8.7

8.70 ± 0.00 3.23

12.07

s

9.3

9.2

9.25 ± 0.01 3.30

12.55

s' t

9.7

9.7

9.70 ± 0.00 3.40

13.10

t

u

not seen.

α

3.3 3.4 3.6

3.55 ± 0.01

8.6

8.6

8.60 ± 0.00 -1.61

7.12

var.

not seen.

Saturday June 14, 1913.

Scale η

I 36 129

Circumpolar Variables

cont.

8 basisp.

	ac.1	ac.2		Diff. H.C. 1170	RC.	Diff. H.C. 1170
Polar						
5					8.1 8.2 8.15 10	-1.76
6					8.6 8.6 8.60 00	-1.62
8					9.65 9.5 9.50 00	-1.40
9					10.0? 10.0 10.00 00	-1.30
10	5.3 5.5 5.5		5.50 00	3.39	n.s.	
11	5.8 6.0 6.2		6.10 10	3.32		
12	6.3 6.5 6.5		6.50 00	3.23		
13	6.6 6.8 6.8		6.80 00	3.37		
14		7.3 7.4	7.35 10	3.17		
15		7.6 7.7	7.65 00	3.29		
16		8.1 8.0	8.05 10	3.21		
17		8.4 8.3	8.35 01	3.14		
18		8.7 8.6	8.65 10	3.27		
19		9.0 8.9	8.95 01	3.33		
21		9.4 9.5	9.45 01	3.14		
23		9.8 9.7	9.75 01	3.45		
25		10.0 10.0	10.00 00	3.73		

Monday June 16, 1913.

Scale m.	I	Eccentric Polar Variables.		Pulse Maj.	
3:10	I 35391	act. corr. to 0		10 ^h 38 +69.3	
	pc.1	pc.2	Curve Magn.	P.C. - pc.2	Curve Magn.
a	2.426	B.	2.62	8.3	8.3 8.30 00 -1.30 7.00
b	3.739	4.3	4.10 ± 2	9.6	9.5 9.55 01 -1.02 8.53
too far from centre c				7.6	18 7.70 ± 1 -1.41 6.29
too far from centre d				8.7	8.6 8.65 10 -1.24 7.41
too far from centre e (elongated)				9.3	9.4 9.35 10 -1.07 8.28
" " " "				9.4	9.5 9.45 01 -1.05 8.40
f	3.840	4.2	4.10 ± 1	9.6	9.7 9.65 01 -1.00 8.65
h	3.638	B.	3.82	9.4	9.4 9.40 10 -1.06 8.34
k	6.264	6.4	6.40 00 3.48	n.s.	n.s.
l	4.850	4.9	4.95 01 3.89	8.84	
l'	4.748	5.353	5.17 ± 1.22 3.83	8.95	
no unit m	6.567	6.6	6.65 10 3.44	10.09	
m'	6.466	6.7	6.65 01 3.44	10.09	
n	6.569	6.9	6.90 00 3.40	10.30	
o	6.971	7.2	7.15 10 3.39	10.54	
p	7	7.7	7.8 7.75 10 3.39	11.14	
q	8.1		8.2 8.15 10 3.41	11.56	
r	8.4		8.5 8.45 01 3.44	11.89	
s	9.1		9.3 9.20 11 3.55	12.75	
t	9.4		9.4 9.40 00 3.60	13.00	
u	±				
v	n.s.				

Monday June 16, 1913.

Scale m.

bircum polar Variables.

R Ursae Maj

I 35391

cont.

P.C.

		pc.1	pc.2	sc.2	Diff. H.C. 170		Diff. H.C. 170
Polar	5					7.6 7.8 7.70 \pm 1	-1.31
	6					8.4 8.6 8.50 \pm 1	-1.52
	8					9.1 9.3 9.20 \pm 1	-1.10
	9					9.6 9.4 9.50 \pm 1	-0.80
Im along.	10	4.7 4.9 5.2		5.05 \pm 2	3.84	9.8 9.8 9.80 \pm 0	-0.91
	11	5.6 5.8 5.7		5.75 \pm 1	3.67		
	12	6.2 6.4 6.2		6.30 \pm 1	3.43		
	13	6.6 6.8 6.6		6.70 \pm 1	3.47		
	14	6.9 7.1 7.3		7.20 \pm 1	3.32		
	15		7.5	7.6 7.55 \pm 0	3.39		
	16		7.8	7.8 7.80 \pm 0	3.46		
	17		8.2	8.4 8.30 \pm 1	3.19		
	18		8.4	8.4 8.40 \pm 0	3.52		
	19		8.7	8.7 8.73 \pm 0	3.55		
	20		9.1	9.2 9.15 \pm 0	3.44		
	23		9.6	9.6 9.60 \pm 0	3.60		
	25		9.9	9.9 9.90 \pm 0	3.83		
	26						

3.50

Tuesday June 17, 1913.

Scale V

Circumpolar Variables

I 34576

alt ~~corr~~ -0.02 1 bassiof.

	sc.1	sc.2	sc.1	Cum. Magn.	Grav. Comp.	Cum. Magn.
near edge.	a.				6.3	6.4 6.35 ± 0.
	b.	B.			7.4	7.4 7.40 00 -0.96 6.44
	c.	B.	B.		8.2	8.4 8.30 11 -0.76 7.54
	c'	3.0 3.2	3.1 2. 3.2 2. .		8.5	8.4 8.45 10 -0.73 7.72
	d.	3.4 3.5	3.55 3.3 3.65 3. .		9.1	9.1 9.10 00 -0.61 8.49
	d'	3.9 4.1 4.3	4.15 2.1 4.20 4.52	8.67	9.5	9.4 9.45 10 -0.57 8.88
	d ²	4.5 4.7 4.9	4.83 2.03 4.90 4.29	9.12	9.9	9.9 9.90 00 -0.52 9.38
	e.	3.4 3.5	B. 3.5 2. 3.6 2. .		9.0 sup?	9.0 2. -0.63 8.37
	f.	3.4 3.5	B. 3.5 2. 3.6 2. .		9.2	9.2 9.20 00 -0.60 8.60
	g.	5.3 5.5	5.3 5.35 5.40 5.41 11	9.46		
	g'	6.2 6.4	6.2 6.25 10 6.30 12 3.91	10.16		
	g ²	5.9 6.1	6.3 6.15 2.1 6.20 11 3.93	10.08		
	h.	4.9 5.1	5.2 5.10 1.1 5.15 10 4.19	9.29	10.0?	10.0? 2. -0.51 9.49?
	k.	6.3 6.5	6.5 6.45 0.1 6.50 00 3.89	10.34		
	l.	6.4 6.6	6.5 6.50 00 6.55 00 3.88	10.38		
	l'	6.7 6.9	7.2 7.00 2.2 7.05 2.2 3.82	10.82		
	m.	6.4 6.6	6.6 6.55 1.0 6.60 00 3.87	10.42		
	n.	6.8 7.0	7.3 7.15 3.2 7.20 2.2 3.81	10.96		
	n'	7.0 7.2	7.3 7.20 1.1 7.25 01 3.81	11.01		
	o.		7.4 7.40 00 3.80	11.20		
	o'		7.9 7.9 7.90 00 3.81	11.71		
	p.		7.6 7.6 7.60 00 3.80	11.40		
	p'		7.6 7.6 7.60 00 3.80	11.40		
we unit-	q.	8.1	8.2 8.15 1.0 3.85	12.00		
	r.	8.3	8.3 8.30 00 3.87	12.17		
	r'	9.6	9.5 9.55 0.5 4.17	13.72		
	s.	8.9	8.8 8.85 1.0 3.97	12.82		
	t.	9.8	9.8 9.80 00 4.24	14.04		

Tuesday June 17, 1913.

Scale V

Circumpolar Variables

I Cassio.

	I 345 26		T'		J		Diff.		
	ac.1	ac.2					H.C. 170		
5					7.4	7.4	7.40 00	-1.01	
6					7.8	7.8	7.80 00	-0.82	
8					8.8	8.8	8.75 01	-0.65	
9					9.3	9.3	9.30 00	-0.60	
10	4.2 ³ 4.4	4.7	4.50 22	4.55 21	4.39	9.5	9.4	9.45 10	-0.56
11	5.3 ⁴ 5.4	5.4	5.40 00	5.45 10	4.02	10.0	9.9	9.95 01	-0.53
12	5.7 ⁸ 5.8	5.6	5.70 12	5.75 12	4.03				
13	6.2 ³ 6.3	6.4	6.35 10	6.40 00	3.82				
14									
15	6.8 ^{6.9} 7.0	7.2	7.05 12	7.10 11	3.89				
16		7.4	7.4	7.40 00	3.86				
17		7.8	7.8	7.80 00	3.69				
18		8.1	8.2	8.15 10	3.77				
19		8.4	8.4	8.40 00	3.88				
20		8.6	8.6	8.60 00	3.99				
23		9.2	8.8	9.00 22	4.20				
25		9.6	9.6	9.60 00	4.13				
26		10.0?	10.0	10.00 00	4.19				

Thursday June 19, 1913.

Scale m.

Bicampholar Variables

S b assifs.

+-

I 35 116

Act. +0.01

Ac.1 ac.2

Curv. Magn.

P.C.

Curv. Magn.

Wofar from centre a

 α 3.3 3.5

3.5 a.

1.8

7.5

7.65

21

-0.80

6.85

b 3.4 3.6

3.6 a.

8.2

7.8

8.00

22

-0.74

7.26

c 3.5 3.7 B.

3.7 a.

8.5

8.3

8.40

11

-0.67

7.73

d 3.9 4.1 4.2

4.15 10

8.6

8.6

8.60

10

-0.63

7.97

e 4.3 4.5 4.7

4.60 11 3.99

9.7

9.6

9.65

10

-0.31

9.34

f 3.8 4.0 4.1

4.05 01

9.7

9.6

9.65

10

-0.31

9.34

g 4.2 4.4 4.1

4.25 21

9.2

9.1

9.15

01

-0.46

8.69

h 5.6 5.8 5.7

5.75 01

9.4

9.2

9.30

11

-0.41

8.89

h' 4.8 5.0 5.2

5.10 11

9.62

9.89

9.89

10.02

9.89

9.89

k 5.6 5.8 5.6

5.70 12

9.05

9.83

9.83

9.83

9.83

9.83

l 5.7 5.9 5.8

5.85 10

9.67

9.83

9.83

9.83

9.83

9.83

m 5.7 5.9 5.7

5.80 12

9.70

9.83

9.83

9.83

9.83

9.83

n 5.7 5.9 5.5

5.70 21

9.66

9.83

9.83

9.83

9.83

9.83

o 6.6 6.8 6.5

6.65 21

9.54

9.83

9.83

9.83

9.83

9.83

o' 6.6 6.6

6.6 12

9.74

9.83

9.83

9.83

9.83

9.83

h 7.7 14

7.55 12

11.93

11.93

11.93

11.93

11.93

11.93

g 7.9 7.8

7.85 10

11.45

11.45

11.45

11.45

11.45

11.45

n 8.0 8.1

7.85 21

12.25

12.25

12.25

12.25

12.25

12.25

p 8.4 8.2

8.30 12

11.45

11.45

11.45

11.45

11.45

11.45

p'

def.

12.75

12.75

12.75

12.75

12.75

12.75

t

n.s.

11.85

11.85

11.85

11.85

11.85

11.85

var.

* Remeasured Feb. 6, 1915 Wrong star marked
and measured, evidently, for n Reject.

Thursday June 19, 1913.

Scale m.

bircumpolar Variables

S Cassiope.

I 35116

cont

					Diff. H.C. 170	P.C.		Diff. H.C. 170
5						7.3	7.3 7.30 00	-0.91
6						7.8	7.6 7.70 12	-0.72
8						8.8	8.6 8.70 12	-0.60
9						9.3	9.3 9.30 00	-0.60
10	4.5 4.7 5.0	4.85 12	4.04			9.3	9.4 9.35 10	-0.46
11	5.2 5.4 5.3	5.35 01	4.07			9.6	9.5 9.55 01	-0.13
12	5.4 5.6 5.6	5.60 00	4.13			10.0	9.8 9.90 12	-0.17
13	5.7 5.9 6.2	6.05 12	4.12					
14	6.2 6.4 6.4	6.40 00	4.12					
15	6.4 6.6 6.6	6.60 00	4.34					
16	6.6 6.8 6.9	6.85 01	4.41					
17	7.0 7.2 7.3	7.3 7.27 100	4.22					
18	7.5	7.6 7.55 10	4.37					
19	7.8	7.8 7.80 00	4.48					
20	8.3	8.3 8.30 00	4.29					
23	8.6	8.6 8.60 00	4.60					
25								
26	9.6	9.6 9.60 00	4.59					

5:10

Friday June 20, 1913.

Scale V

Circumpolar Triangles.

I 34357

alt -0.2

J 6 ephai

sc.1

sc.2

sc.3

Circ Magn.

Circ Magn.

P.C.

too far from center, a

" " " b

" " " c

d 3.6 3.7 13. 3.7 a. 3.8 a.

Imm. very hazy

(shd. have been "g")

f 4.4 4.5 4.4 4.45 10 4.50 ±

g 4.4 4.5 4.4 4.45 10 4.50 ±

g' 3.1 3.8 4.0 3.90 ± 3.95 ±

h 3.8 3.9 4.2 4.05 ± 4.10 ±

h' 4.5 4.6 4.8 4.70 ± 4.75 ± 3.80

k 5.2 5.3 5.4 5.35 ± 5.40 ± 3.87

k' 4.5 4.6 4.4 4.50 ± 4.55 ± 3.79

k² 5.4 5.5 5.6 5.55 ± 5.60 ± 3.89

l 5.9 6.0 5.9 5.95 ± 6.00 ± 3.92

m 5.7 5.8 6.1 5.95 ± 6.00 ± 3.92

n 6.6 6.8 6.8 6.75 ± 6.80 ± 4.03

o 6.6 6.8 6.5 6.60 ± 6.65 ± 4.01

o' 6.8 7.0 6.9 6.90 ± 6.95 ± 4.06

p 7.6 7.6 7.6 7.60 ± 7.65 ± 4.17

q 7.5 7.7 7.60 ± 7.65 ± 4.17

q' 7.6 7.7 7.65 ± 7.70 ± 4.17

r 8.1 8.4 8.25 ± 8.30 ± 4.25

r' 7.4 7.3 7.35 ± 7.40 ± 4.13

t 8.7 8.8 8.75 ± 8.80 ± 4.31

Var. 6.4 6.5 6.5 6.50 ± 6.55 ± 3.99

u 8.9 8.9 8.90 ± 8.95 ± 4.32

← P.C. elongated (w)

Friday June 20, 1913.

Scale \sqrt{r}

bicum polar variables

J Cepheus

Polar

sc.1 sc.2 sc.3

Diff.
H.C. 170

P.C.

Diff.
H.C. 170

5					1.5	1.4 7.45 10	-1.06
6					1.9	1.9 7.90 00	-0.92
8					8.9	8.8 8.85 10	-0.75
9					8.9	8.9 8.8	
10	4.8 4.9 5.2		5.05 \pm 2	3.84	sup.		
11	5.4 5.5 5.6		5.55 \pm 0	3.87	10.0	10.0 2.	-0.58
12	5.7 5.8 5.8		5.80 00	3.93			
13	6.3 6.4 6.2		6.30 \pm 1	3.87			
14	6.4 6.5 6.5		6.50 00	4.02			
15	6.6 6.7 6.9		6.80 \pm 1	4.14			
16	7.0 7.1 7.4		7.25 \pm 2	4.01			
17		7.5	7.4 7.45 10	4.04			
18		7.8	7.6 7.70 12	4.22			
19		7.9	7.9 7.90 00	4.38			
20		8.4	8.4 8.40 00	4.19			
23		8.8	8.8 8.80 00	4.40			
25		9.4	9.5 9.45 01	4.28			
26		9.8	9.7 9.75 02	4.44			

No trace of any stars
sup. on P.C.* Plate superposed on plate of Var. region and
found stars sup. on P.C. stars also sup. on P.C. of 10.

Saturday June 21, 1913.

Scale m.

bircumpolar Variables.

Starsiop.

I 36 160

DC1 PC2 PC3

PC.

too far from center a

8.5

x 3.4

9.5

b 3.7 3.7 4.3 4.0

10.0

c 3.6 4.0

10.0

" " " d . .

e 5.6 5.8

f 4.9 5.3

g 4.7 4.8 5.2

" " "

h 4.4 ?

h' 6.3 6.4

k 7.2 7.4

l 7.6 7.4

m 7.0 7.4

n 9.2 9.3

o 8.3 8.4

o' 8.2 8.5 8.6

p 8.8 8.9

q 8.4 9.4

r 9.4 9.4

s 10.0

s' n.s.

Saturday June 21, 1913.

Scale m.

bicumpolar Variables
cont.

Scalars.

I 36160

Polar

5

6

8

9

10

11

12 6.7

13

14

15

8.2

16

17

8.6

18

19

20

23

8.9

See next page.

Called away. Unable to finish.

Monday June 23, 1913.

Scale V

bircumpolar Variables. S Cassiope.

I 36160

det +0.01

Curve Magn.

too far from center?

Curve Magn.

 α 2.7 2.8

2.8 a.

8.5

8.5

8.50 10.197

6.53

 β 3.4 3.5

3.5 a.

9.4

9.5

9.45 10.192

7.53

 γ 3.6 3.7

3.7 a.

9.9

9.9

9.90 10.190

8.00

9.5

10.0

10.00 10.189

8.11

sim. elongated)

 δ 5.4 5.5 5.5

5.50 10

3.48 8.78

 ϵ 4.5 4.6 4.7

4.88

3.22 3.74 8.62

 ζ 4.5 4.6 4.7

4.65

0.1

 η 7.0 7.1 7.4

7.25

1.2 3.00 10.25

 θ 5.9 6.0 6.3

6.15

2.1 3.25 9.40

 ι 6.9 7.0 7.3

7.15

2.1 3.01 10.16

 κ 7.4

7.4

7.40 10 2.99 10.39

 λ 6.7 6.8

7.1

6.95 2.1 3.04 9.99

 μ 8.9

9.3

9.10 2.2 2.89 11.99

 ν 1.9

7.9

2.2 2.95 10.85

 ξ 8.3

8.2

8.25 10 2.94 11.19

 π 8.6

8.9

8.75 2.1 2.91 11.66

 ρ 9.4

9.3

9.35 10 2.88 12.23

 σ 9.1

9.2

9.15 10 2.89 12.04

 τ 9.9

9.9

9.90 10 2.84 12.74

 υ n.s. ϕ χ ψ

Monday June 23, 1913.

Scale V

Bicircular Variables.

S Cassiope.

I 36 160

cont.

	sc. 1	sc. 2		Diff. H.C. 170	Diff. H.C. 170	
5				8.4	8.4 8.40 00	-2.01
6				8.9	8.9 8.90 00	-1.92
8				10.0?	10.0 10.00 00	-1.90
9						only ft. trace
10	5.253	5.2	5.2510	3.64		
11	6.162	6.3	6.2501	3.17		
12	6.566	6.6	6.60 00	3.13		
13		7.3	7.25 10	2.92		
14		7.6	7.60 00	2.92		
(12) 15	6.5	7.9	7.90 00	3.04		
16		8.4	8.35 01	2.91		
17		8.7	8.55 12	2.94		
18		8.9	9.05 12	2.87		
19		9.3	9.35 10	2.93		
20		9.7	9.80 11	2.79		
23						

Plate does not show ft. stars!

Tuesday June 24, 1913.

Scale m.

circumpolar variables.

S. Cephei.

I 35341

(See note on cover of plate.)

sc.1 sc.2

P.C. sc.2

too far from center a

d

sc.1

6.6 6.8 6.8 6.80 00

b

d

sc.2

6.4 6.6 6.3 6.45 21

c

d

7.4

7.4 7.40 00

d

d

7.8

7.7 7.75 01

(inv. from)

e

83.

q

8.6

8.7 8.65 01

f

8.9

9.2 9.05 12

(" ")

g

q

9.5

9.4 9.45 10

g'

3.3 3.5

3.5 a.

8.8

8.8 8.80 00

h

3.4 3.6

3.6 a.

8.8

8.9 8.85 01

h'

3.8 4.0 4.0

4.00 00

9.5

9.5 9.50 00

k

4.5 4.7 4.7

4.70 00

n.s.

k'

4.2 4.4 4.4

4.40 00

9.4

9.6 9.50 11

we. unit.

k²

5.2 5.4 5.4

5.40 00

l

5.4 5.6 5.6

5.60 00

m

5.4 5.6 5.8

5.70 11

Sc.2

n

6.6 6.8 7.1

6.95 21

n 7.1

o

6.4 6.6 6.4

6.50 11

o 6.5

o'

6.4 6.6 6.4

* ~~6.50 11~~

o' 6.8

p

8.2

8.2 8.20 00

p 8.1

q

8.3

8.3 8.30 00

q'

7.6

7.8 7.70 11

r

8.4

8.2 8.30 11

r'

8.1

8.6 8.65 10

s

9.6

9.3 9.45 21

t

9.3

9.4 9.35 10

* Recorded measure of o in o' place? Reject, as image is certainly fainter than b.4. Could not possibly be b.4.

O. Mar. 20, 1916.

Var. B.

86

Tuesday June 24, 1913.

No Polar Seg. (see cover of file.)

Wednesday June 25, 1913.

Scale M.

bircumplan Variables

I b a s s i o f.

310

I 36159

alt. +0.00

sc1 sc2 sc3

Curve Magn.

P.C. sc2

Curve Magn.

too far from centre a

d

6.4 6.6 6.6 6.6 00 +0.58

h B.

B

7.9 8.1 8.00 11-1.52 6.43

c 2.5 2.7

2.7 a.

8.8 8.8 8.80 00-1.52 7.28

c' 2.8 3.0

3.0 a.

9.2 9.4 9.30 11-1.49 7.81

d 3.4 3.6 B.

3.6 a.

B

9.6 9.7 9.65 01-1.48 8.17

d' 4.2 4.4 4.1

4.55 2.1

9.6* 9.7 9.65 01-1.48 8.17

d'' 4.8 5.0 5.2

5.10 1.1

3.94

9.03

10.0

e 3.4 3.6 B.

3.6 a.

B

9.5 9.4 9.45 10-1.49 7.86

f 3.6 3.8 B.

3.8 a.

B

9.5 9.4 9.45 10-1.49 7.86

g 4.8 5.0 5.3

5.15 2.1

3.89

9.04

g' 6.7 6.9 6.7

6.80 1.2

3.24

10.04

g'' 6.3 6.5 6.2

6.35 1.2

3.34

9.69

h 5.4 5.6 5.4

5.50 1.2

3.66

9.16

k 6.9 7.1 7.0

7.05 1.0

3.20

10.25

l 7.0 7.2 7.2

7.20 0.0

3.19

10.39

l' 1.5

7.7

7.60 1.1

3.16

10.76

m 7.2

7.2

7.20 0.0

3.19

10.39

n 7.2

7.3

7.27 1.0

3.19

10.46

n' 7.8

7.8

7.80 0.0

3.15

10.95

o 8.3

8.3

8.30 0.0

3.13

11.43

o' 8.8

8.9

8.85 0.1

3.15

12.00

p 8.4

8.5

8.45 0.1

3.13

11.58

p' 8.4

8.3

8.35 0.2

3.13

11.48

q 8.8

8.9

8.85 0.1

3.15

12.00

r 9.2

9.2

9.20 0.0

3.18

12.38

s 7.5

7.5

7.50 0.0

3.24

12.94

s' 9.7

9.7

9.70 0.0

3.24

12.94

Remeasured
May 11, 1915 Rec 977

9.8

9.8

9.5

* There are two
close together
images, one of which
is companion, not
certain which.

The brighter image
measured above is
superposed, and the
fainter image is
too faint for scale
measure. Reject.

Wednesday June 25, 1913 -

Scale m.

to circum polar Variables.

I Cassio.

I 36159

			Diff.	
			H.C. 170	H.C. 170
5			1.9	7.9 7.90 00 -1.51
6			8.6	8.5 8.55 01 -1.57
8			9.1	9.1 9.70 00 -1.60
9			10.0	10.0 10.00 00 -1.30
10	4.1 4.9 5.1	5.00 01	3.89	
11	5.6 5.8 5.1	5.75 01	3.67	
12	6.4 6.6 6.6	6.60 00	3.13	
13	6.7 6.9 6.8	6.85 10	3.32	
14	7.4	7.4 7.40 00	3.12	
15	7.9	7.8 7.85 10	3.09	
16	8.2	8.2 8.20 00	3.06	
17	8.3	8.4 8.35 10	3.14	
18	8.7	8.7 8.70 00	3.22	
19	8.8	8.9 8.85 01	3.43	
20	9.2	9.1 9.30 01	3.29	
23	9.9	9.9 9.90 00	3.30	

In of Polar Sep. do not compare with scale.

Thursday July 3, 1913.

Copied on sheets.

Scale m.

bircumpolar variables.

I 34373

R Lyncis

det. +0.04

a 2.6 2.8

b .

c .

d 5.9 4.1 4.3

e 4.4 4.6 4.8

f

f¹ 4.6 4.7 4.9 5.3 5.2f² 5.2 5.4 5.3

g 5.6 5.8 5.7

h 5.8 6.0 6.2

h² 6.4 6.6 6.5

k 6.9 7.1 7.3

l 7.2 6.8

m 6.8 7.0 6.6

n 7.5 7.4

o¹ 7.6 7.5o² 8.2 8.2

p 8.1 8.6

q 8.1 8.6

r 9.4 9.2

r² 9.5 9.5

(88 n.s.) s 8.6 9.7

+

Curve Magn. 1.6

8.4

def.

4.20 1.1 4.84 9.64 8.1

4.70 1.1 4.58 9.28 9.3

5.05 1.1 3.2 4.39 9.44 9.5

5.35 0.1 4.22 9.67 9.8

5.75 0.1 4.03 9.78 n.s.

6.10 1.1 3.85 9.95

6.55 0.1 3.63 10.18

7.20 1.1 3.45 10.65

7.00 2.2 3.48 10.48

6.80 2.2 3.53 10.33

7.45 1.0 3.42 10.87

7.55 0.1 3.41 10.96

8.20 0.0 3.46 11.66

8.65 1.0 3.58 12.23

8.65 1.0 3.58 12.23

9.30 1.2 3.87 13.17

9.50 0.0 3.98 13.48

9.70 0.0 4.10 13.80

Curve Magn.

1.6 7.60 0.0 -1.14 6.46 6.53

8.4 8.40 0.0 -0.97 7.43 7.60

def. def.

8.9 8.80 1.1 -0.89 7.91 8.1

9.3 9.30 6.0 -0.67 8.49 8.63

9.4 9.45 1.0 -0.64 8.86 9.01

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

9.7 9.75 0.1 -0.57 9.18 9.31

Thursday July 3, 1913-

Scale m

Circumpolar Variables

I 34373

cont.

R Lyncis

Diff.
H.C. 170Diff.
H.C. 170

5				1.5	1.4 7.45 10	-1.66
6				8.2	8.2 8.20 00	-1.22
8				8.8	8.1 8.75 01	-0.65
9	0.			9.4	9.4 9.40 00	-0.70
10	4.7 4.9 5.2	5.05 12	3.84	9.5	9.5 9.50 00	-0.61
11	5.4 5.6 5.6	5.60 00	3.82	10.0	9.9 9.95 01	-0.53
12	5.6 5.8 5.1	5.75 01	3.98			
13						
14	6.5 6.7 6.1	6.70 00	3.82			
15	6.7 6.9 6.9	6.90 00	4.04			
16	7.3 7.2	7.25 10	4.01			
17	7.4 7.6	7.50 11	3.99			
18	7.8 7.8	7.80 00	4.12			
19	8.4 8.3	8.35 01	3.93			
20	8.5 8.5	8.50 00	4.09			
23	8.7 8.8	8.75 10	4.45			
25	9.5 9.4	9.45 10	4.28			
26	9.9 9.9	9.90 00	4.29			

in film
(scratch thru 13)

5 5 5
6 8 6 8.6
8 9 7
9 8
9
12 6.6
22
32
+88 2
+87 12
+87 15

Saturday July 5, 1913

Scale W.

Scale measures of L' Plates for Mr. King -
Ac 14134 Isochromatic, screen O

	sc.1	sc.2	sc.2	Diff.	Curve	magn.	Pty. white stars	Pty. Red stars
5	7.7	7.8	8.2	8.00 22	-1.52	-1.62	6.38	10
6		8.6	8.6	8.60 00	-1.52	-1.73	6.87	21
seems defective 7		9.4?	9.3?	9.35 01	-1.96	-1.86	7.49	10
not used for color mids. 8		9.7	9.8	9.75 10				
9		±.						
12	6.6	6.7	6.7	6.70 00				
22	7.8	7.9	8.4	8.15 32	-1.65	-1.50	6.50	05
32		9.4	9.4	9.40 00	-1.87	-1.53	7.53	11
+87 12		9.6	9.6	9.60 00	-1.90	-1.70	7.70	48
+87 15		9.9	9.8	9.85 10	-2.01	-1.92	7.93	09
+88 2		9.7	9.8	9.75 10	-1.91	-1.84	7.84	26
								<div style="text-align: right;"> +19 -31 4)-12 -03 </div>
								<div style="text-align: right;"> 4)-90 -22 </div>

Plate does not show ft. stars.

Saturday July 5, 1913 -

Scale W

Scale measures of L' plates for Mr. King (cont)
Ac 14139 Isochromatic, Screen D

	sc.1	sc.2	sc.2	Mean	Diff.	Curve	Magn.	Pty. - Ptn. White stars Red stars
5	7.7	7.8	7.7	7.75 0.5	-1.27	-1.20	6.55	07
6		8.4	8.3	8.35 0.5	-1.27	-1.12	7.23	15
7		8.6	8.5	8.55 0.1	-1.16	-1.10	7.45	08 ⁶
not used for color indep. 8		8.8	8.9	8.85 0.1				
9		9.1	9.1	9.70 0.0	-1.09	-1.03	8.67	06
12	6.7	6.8	7.3	7.05 2.3	(-1.30)	(5.75) ^{extrapolated}		(49)
22	7.5	7.6	7.8	7.70 1.1	-1.20	6.50		05
32		8.6	8.4	8.50 1.2	-1.10	7.40		24
42		9.2	9.4	9.30 1.1	-1.05	8.25		04
52		9.5	9.5	9.50 0.0	-1.04	8.46		21
+88 80		9.9?		9.9? 2.	-0.98	-1.02	8.88?	04
+88 86		9.9		9.9 2.	-1.12	-1.02	8.88	10
+88 105		9.3	9.4	9.35 1.0	-1.05	8.30		10
+88 115		9.8	9.8	9.80 0.0	-0.92	-1.03	8.77	11
+88 2.		8.9	9.1	9.00 1.1	-1.07	7.93		17
+87 15		8.6	8.7	8.65 0.1	-0.81	-1.09	7.56	28
+87 12		8.7	8.7	8.70 0.0	-1.09	7.61		57
								$ \begin{array}{r} +484 \\ -43 \\ 87+31 \\ +00 \end{array} \begin{array}{r} +14 \\ -124 \\ 77-110 \\ -16 \end{array} $

Images on this plate are elongated and are difficult to compare with scale.
Uncertain about measures of +88° 80 and 86.

Monday July 7, 1913.

Scale M. • Scale Measures of C.S. for Circumpolar Variables -

I 3 4 5 3 2

T' alt. +0.01

S ~~U~~ Uro. Majors.

Puis. Comp.

	SC.1	SC.2	SC.2	Curve Magn.	8 th	Curve Magn.
a	2.3 2.5		2.5 a.	8.4	8.4 8.40 00	-0.97 7.43
b	2.5 2.7		2.7 a.	8.6	8.4 8.50 12	-0.95 7.55
c	3.1 3.3		3.3 a.	9.2	9.1 9.15 01	-0.84 8.31
d	3.3 3.5	40	3.75 3.2	9.5	9.5 9.50 00	-0.78 8.72
nr. unit e	4.4 2.6		2.6 a.	8.6	8.6 8.60 00	-0.93 7.67
f	3.8 4.0 4.2		4.10 2.1 4.90 9.00	9.5	9.4 9.45 10	-0.80 8.65
g	4.5 4.7	4.9	4.80 2.1 4.52 9.32	9.7	9.7 9.70 00	-0.75 8.95
Im. too poor. g ²				10.0?	10.0? 10.00? 00	-0.71 9.29 ²
g ³	5.4 5.6 5.6		5.60 00 4.09 9.69	2.5.		
h	5.6 5.8	-5.8	5.80 00 4.00 9.80			
k		1.3	1.2 7.25 10 3.45 10.70			
Im diff. to measure l	6.4 6.6 6	6.9	6.75 2.1 3.55 10.30			
m		1.4	1.4 7.40 00 3.42 10.82			
n		1.5	1.7 7.60 2.1 3.41 11.01			
o		8.3	8.2 8.25 10 3.46 11.71			
p		8.3	8.4 8.35 10 3.49 11.84			
q		8.9	9.1 9.00 2.1 3.61 12.61			
r		9.4	9.4 9.40 00 3.92 13.32			
s		9.5	9.6 9.55 10 4.02 13.57			
t		9.9	9.8 9.85 10 4.15 14.00			
Var.		8.8	9.1 8.95 2.1 3.69 12.64			

Seq. for S Uro. Maj. does not near centre of plate, ∴ images elong.

Monday July 7, 1913.

Scale M.

Circumpolar Variables.

I 34532

cont.

I+8 Ursa. majoris.

Polar Seq.

sc.1 sc.2

Diff.
H.C. 170Polar Seq.
sc.1 sc.2 sc.2H.C. 170
Diff.

5						7.4	7.6	7.57 21	-1.11
6						8.2	8.2	8.20 00	-1.22
8						8.8	8.1	8.75 02	-0.65
9						9.6	9.5	9.55 01	-0.85
10	3.7	3.9	4.0	3.95 10	4.94	9.7	9.7	9.70 00	-0.81
11	4.7	4.6	5.2	5.00 12 21	4.42	10.0?	10.0?	10.0? 00	-0.58
12	5.3	5.5	5.7	5.60 11	4.13				
13	6.4	6.6	6.7	6.65 01	3.52				
14	6.8	7.0	7.3	7.15 21	3.37				
15		7.5	7.6	7.55 10	3.39				
16		7.7	7.7	7.70 00	3.56				
17		8.2	8.2	8.20 00	3.29				
18		8.4	8.5	8.45 01	3.47				
19		8.7	8.6	8.65 10	3.63				
20		8.8	8.8	8.80 00	3.79				
23		9.2	9.4	9.30 21	3.90				
25		9.6	9.7	9.65 01	4.08				
26		10.0	10.0?	10.00 00	4.19				

Monday July 7, 1913.

Scale m.

bircumpolar Variables.

I 34532. cont.

act. too

I use. Majoris.

	sc.1	sc.2		Cum Magn.		Orig. Comp.		Cum Magn.
a	1.8	2.0		2.0 a.		1.7	1.7 7.70 00	-1.11 6.59
b	2.6 2.8			2.8 a.		8.6	8.5 8.55 01	-0.94 7.61
c	3.0	3.2		3.2 a.		9.2	9.4 9.30 11	-0.81 8.49
d	3.6	3.8 B.		3.8 a.		9.5	9.4 9.45 10	-0.80 8.65
e	2.6	2.8		2.8 a.		8.6	8.6 8.60 00	-0.94 7.66
f	3.6	3.8 B.		3.8 a.		9.6	9.6 9.60 00	0.77 8.83
g	3.9	4.1 4.1		4.10 00 4.90	9.00 9.7	9.5	9.60 12	-0.77 8.83
g ¹	4.1	4.9 5.2		5.05 12 4.40	9.45 9.8	9.8	9.80 00	-0.74 <u>9.06</u>
Don't along. g ²								
g ³	5.35	5.5 5.4		5.45 10 4.18	9.63			
h	5.6	5.8 5.8		5.80 00 4.00	9.80			
k	6.4	6.6 ^{unseen} 6.4	6.8	6.70 11 3.57	10.27			
l	7.0	7.2	7.4	7.30 11 3.43	10.73			
m		1.6	7.6	7.60 00 3.42	11.02			
n		8.3	7.9	8.10 22 3.44	11.54			
o		8.4	8.5	8.45 01 3.51	11.96			
p		8.6	8.5	8.55 02 3.55	12.10			
q		8.6	8.8	8.70 11 3.59	12.29			
r		8.8	8.7	8.75 02 3.61	12.36			
s		9.3	9.3	9.30 00 3.87	13.17			
t		9.6	9.7	9.65 01 4.07	14.72			
u		9.4	9.5	9.45 01 3.94	13.39			
w		9.9	9.9	9.90 00 4.18	<u>14.08</u>			
Var		8.6						

Wednesday July 9, 1913.

Scale m.

Circumpolar Variables.

I 34962

T' alt +0.01 R Draconis.

I 34962

I 34962

2.26:29 Mean	sc.1	sc.2	sc.3	Curr Magn.	P.C.	Curr Magn.	2.26:30 Mean
a 3.3 3.5 B.	3.5 a.	B	8.5	8.5	8.50 00 -0.59	7.91	7.89 7.90 01 01
b 3.6 3.8 B.	3.8 a.	B	8.7	8.7	8.70 00 -0.53	8.17	8.40 8.26 11 12
c 3.5 3.7 B.	3.7 a.	B	8.7	8.6	8.65 10 -0.55	8.10	8.27 8.18 08 09
d 3.3 3.5 B.	3.5 a.	B	8.5	8.5	8.50 00 -0.59	7.91	8.21 8.06 15 15
8.55. \bar{a} 4.3 4.5 4.7	4.60 \pm 3.95	8.55	9.4	9.3	9.35 01 -0.45	8.90	8.93 8.96 04 03
8.80. \bar{a} 4.4 4.6 5.1	4.85 \pm 3.95	8.80	9.6	9.5?	9.55 01 -0.30	9.25?	9.45 9.35? 10 10
8.55. \bar{a} 4.4 4.6 4.6	4.60 00 3.95	8.55	9.4	9.4	9.40 00 -0.34	9.06	9.25 9.16 10 09
9.37 9.32 05 00 * h' 5.1 5.3 5.3	5.30 00 3.97	9.27	9.8?	9.7	9.75 01 -0.28	9.47?	9.65 9.56? 09 09
9.98 9.88 10 10 * h ² 5.6 5.8 5.8	5.80 00 3.98	9.78					
10.38 10.26 11 12 k 5.9 6.1 6.2	6.15 \pm 4.00	10.15					
10.83 10.70 14 13 l 6.3 6.5 6.6	6.55 \pm 4.01	10.56					
10.96 10.81 15 15 m 6.4 6.6 6.7	6.65 01 4.01	10.66					
11.05 10.91 14 14 * n' 6.6 6.8 6.9	6.75 01 4.02	10.77					
11.24 11.06 19 18 * n ² 6.6 6.8 6.9	6.85 01 4.02	10.87					
11.89 11.71 18 18 * o' 1.4 1.5	7.45 01 4.08	11.53					
12.21 12.06 19 15 * o ² 1.8 1.8	7.80 10 4.11	11.91					
12.59 12.43 16 16 f 8.2 8.0	8.15 02 4.17	12.27					
12.92 12.80 11 12 g 8.5 8.4	8.45 10 4.24	12.69					
13.30 13.12 18 18 r 8.6 8.7	8.65 01 4.29	12.94					
13.46 13.44 03 02 s 8.9 9.2	9.05 12 4.36	13.41					
14.08 13.96 13 12 t 9.4 9.4	9.40 00 4.43	13.83					
14.02 13.95 07 07 u 9.4 9.5	9.45 01 4.43	13.88					
14.33 14.33. \bar{a} w 5. 5.							

* See note page 34.

Wednesday July 9-1913-

Scale m.

Circumpolar Variables.

I 34962

cont.

R. H. racinis.

Polar Seq.

Diff.
H.C. 170

sec.1

P.C.

Diff.
H.C. 170

5				6.7	7.4	7.05 24	-0.66
6				8.1	8.2	8.15 20	-1.17
8				8.6	8.8	8.70 21	-0.60
9				8.9	9.1	9.00 21	-0.30
10	4.6 4.8 4.7	4.75 01	4.14	9.2	9.3	9.25 01	-0.36
11	5.4 5.6 5.6	5.60 00	3.82	9.7	9.7	9.70 00	-0.28
12	5.6 5.8 5.7	5.75 01	3.98	n.s.			
13	5.9 6.1 6.3	6.20 21	3.97				
14	6.3 6.5 6.4	6.45 10	4.07				
15	6.7 6.9 6.8	6.85 10	4.09				
16	6.9 7.1 7.2	7.15 10	4.11				
17	7.5 7.5	7.50 00	3.99				
18	7.8 7.8	7.80 00	4.12				
19	8.0 8.2	8.10 21	4.18				
20	8.4 8.4	8.40 00	4.19				
23	8.8 8.8	8.80 00	4.40				
25	9.4 9.4	9.40 00	4.33				
26	9.7 9.6	9.65 10	4.54				

Tuesday July 15, 1913-

Scale m.

Bicumpolar Triangles.

I 34605

T'

alt 0.01 R W. parsonis.

I 34605

I 34605 - Mean

R. 26:10 Mean

SC.1

SC.1

SC.2

Mean Curve Magn.

P.C.

SC.2

Mean Curve Magn.

R. 26:11

a	B.	p	.	B	8.4	8.4	8.40 00	-0.55	7.85	7.83	7.84	01 01
b	B.	.	.	B	8.7	8.7	8.70 00	-0.51	8.19	8.30	8.24	05 06
c	2.32.5	.	2.5 a.	8.6	8.6	8.60 00	-0.53	8.07	8.13	8.10	03 03	
d	B.	.	.	B	8.5	8.4	8.45 10	-0.55	7.90	7.94	7.92	02 02
e	3.53.7 3.53.7	.	3.60 12	5.03	8.73	9.4	9.30 11	-0.45	8.85	8.79	8.82	03 03
f	3.63.8 4.0	.	3.90 11	4.97	8.87	9.7	9.70 00	-0.43	9.27	9.30	9.28	01 02
g	3.33.5 B.	.	3.5 a.	.	9.4	9.5	9.45 01	-0.44	9.01	8.97	8.99	02 02
* h	4.24.4 4.7	.	4.55 21	4.76	9.31	10.0	10.0 01	-0.42	9.58	9.55	9.56	02 02
* h'	4.85.0 5.3	.	5.15 21	4.60	9.75	.	.	.	.	.	.	.
k	5.25.4 5.2	.	5.30 12	4.55	9.85	.	.	.	.	.	.	.
l	4.86.0 6.4	.	6.20 22	4.33	10.53	.	.	.	.	.	.	.
m	4.86.0 6.2	.	6.10 11	4.35	10.45	.	.	.	.	.	.	.
* n	5.96.1 6.2	.	6.15 10	4.34	10.49	.	.	.	.	.	.	.
* n'	5.86.0 5.8	.	6.10 11	4.35	10.45	.	.	.	.	.	.	.
* o	6.87.0 7.4	.	7.20 22	4.15	11.35	.	.	.	.	.	.	.
* o'	7.7 7.9	.	7.80 11	4.08	11.88	.	.	.	.	.	.	.
p	8.3 8.2	.	8.25 10	4.09	12.34	.	.	.	.	.	.	.
q	8.4 8.3	.	8.35 01	4.10	12.45	.	.	.	.	.	.	.
r	8.7 8.7	.	8.70 00	4.18	12.88	.	.	.	.	.	.	.
s	9.4 9.3	.	9.35 01	4.35	13.70	.	.	.	.	.	.	.
t	9.5 9.6	.	9.55 10	4.40	13.95	.	.	.	.	.	.	.
u	9.6 9.5	.	9.55 01	4.40	13.95	.	.	.	.	.	.	.

* $h' = h$ $h'' = h'$
 $n' = n$ $n'' = n'$
 $o' = o$ $o'' = o'$

} according to latest notation. See note on cover of ref. plate, I 23349

Tuesday July 15, 1913 -

Scale m.

Bicumpolar Variables
R Draconis.

I 34605

T

			mean	Diff.			mean	Diff.
5					1.3	7.4	7.35 ± 0	-0.96
6					1.7	7.7	7.70 ± 0	-0.72
8					8.6	8.6	8.60 ± 0	-0.50
9					9.1	9.2	9.15 ± 0	-0.45
10	3.638	4.1	3.95 ± 1	+4.94	9.3	9.4	9.35 ± 0	-0.46
11	4.345	4.8	4.65 ± 2	+4.77	9.9	9.8	9.85 ± 0	-0.43
12	4.850	5.2	5.10 ± 1	+4.63				
13	5.456	5.8	5.70 ± 1	+4.47				
14	6.163	6.3	6.30 ± 0	+4.22				
15	6.466	6.8	6.70 ± 1	+4.24				
16	6.870	7.1	7.05 ± 1	+4.21				
17	6.971	7.4	7.3	7.27 ± 10	+4.22			
18	7.8	7.7	7.75 ± 1	+4.17				
19	8.3	8.2	8.25 ± 0	+4.03				
20	8.5	8.5	8.50 ± 0	+4.09				
23	8.7	8.6	8.65 ± 0	+4.55				
25	9.3	9.5	9.40 ± 1	+4.33				
26	9.7	9.8	9.75 ± 0	+4.44				

36

Friday
Tuesday, July 25, 1913.

2 -

Circumpolar Variables

I 34768

T'

I Mrs. Majoris.
 Pis. Gomp

pc.1 pc.2

a 2.4

Image to p. times.

b 4.3

c .

d .

e 3.3

f 4.3 5.2

g 4.3

g⁻ 4.4 5.1g³ 5.6 5.7

h 5.7

k 6.3 6.6

l 6.9 7.2

m 7.4

n 7.8

o 8.6

p 8.7

q 8.8

r 8.9

s 9.2

u 9.9?

t n.s.

pc.2

8.2

4.6

4.6

4.6

8.8

9.6

Tuesday July 29, 1913

Scale m.

Bicircular Variables.

2:40

I 34768

T' alt. +0.00

J. Mrs. Majoris.

	sc.1	sc.2	Mean	Curve	Magn.	P.C.	Mean	Curve	Magn.
Images of	a	2.325	2.5 ± .1	.	8.2	8.2	8.20 00	-1.34	6.86
3, b, c, d are	b	.	.	.	9.4	9.5	9.45 01	-1.28	8.17
poor, could	c	.	.	.	9.6	9.6	9.60 00	-1.25	8.35
not make	d	.	.	.	9.9	9.8	9.85 10	-1.23	8.62
good measures.	e	3.385 B.	3.5 ± .1	.	8.8	8.8	8.80 00	-1.32	7.48
	f	4.446 5.2	4.90 ± .3	3.82	8.72	n.s.	.	.	.
	g	4.446 4.9	4.75 ± .1	3.83	8.58	.	.	.	.
Imm. poor	g ²	4.547 5.1	4.90 ± .2	3.82	8.72?	.	.	.	.
	g ³	5.456 5.7	5.65 01	3.77	9.42	.	.	.	.
	h	5.759 6.2	6.05 ± .2	3.75	9.80	.	.	.	.
	k	6.466 6.3	6.75 ± .2	3.73	10.18	.	.	.	.
	l	7.2	7.1	7.15 01	3.75	10.90	.	.	.
	m	7.4	7.6	7.50 ± .1	3.76	11.26	.	.	.
	n	7.8	7.8	7.80 00	3.78	11.58	.	.	.
	o	8.1	8.4	8.55 ± .1	3.82	12.37	.	.	.
	p	8.6	8.6	8.60 00	3.83	12.43	.	.	.
	q	8.8	8.9	8.85 01	3.85	12.70	.	.	.
	r	8.9	8.8	8.85 10	3.85	12.70	.	.	.
	s	9.3	9.5	9.40 ± .1	3.90	13.30	.	.	.
	t	n.s.	.	.	.	.	.	.	.
	u	9.9?	9.9? ± .1	.	.	.	.	.	.

Tuesday July 29, 1913.

Scale m.

Bicumpolar Variables

I 34768 cont. Polar Exp.

	pc.1	pc.2	mean	Diff.		mean	Diff.
5					7.1	7.7	7.70 ± 0 -1.31
6					8.3	8.4	8.35 ± 0 -1.37
8					9.5	9.4	9.45 ± 0 -1.35
9					9.8	9.8	9.80 ± 0 -1.10
10	4.7	4.9	5.2	5.05 ± 2	+3.84	n.s.	
11	5.5	5.9	5.6	5.65 ± 0	+3.77		
12	5.7	5.9	6.1	6.00 ± 1	+3.73		
13	6.3	6.5	6.5	6.50 ± 0	+3.67		
14	6.6	6.8	6.7	6.75 ± 0	+3.77		
15	7.0	7.2	7.2	7.20 ± 0	+3.74		
16		7.5	7.4	7.45 ± 0	+3.81		
17		7.8	7.8	7.80 ± 0	+3.69		
18		8.2	7.9	8.05 ± 1	+3.87		
19		8.4	8.5	8.45 ± 0	+3.83		
20		8.7	8.8	8.75 ± 0	+3.84		
23		9.4	9.4	9.40 ± 0	+3.80		
25		9.7	9.7	9.70 ± 0	+4.03		
26							

P.C. on Polar Seg. are elongated ∴ difficult to measure.

Monday August 11, 1913.

Scale W

Scale measures of Plates for Color Index.

1—

Ac 13931

		sc.1		mean	Ptm - Scale Red	Curve Magn.	AC - Ptm. White Red		
5 =	1	7.6 7.7	7.6	7.65 10	-1.17	-1.19	6.46	02	
	2	8.7	8.7	8.70 00		-0.84	7.86	24	11
+88° 15	3	9.4	9.6	9.50 11	-0.62	-0.58	8.92	04	
	4	8.8	8.9	8.85 01		-0.79	8.06	15	02
	5	7.6 7.7	7.7	7.70 00		-1.16	6.54	01	12
	6	8.7	8.8	8.75 10		-0.82	7.93	27	14
	7	9.5	9.4	9.45 10		-0.60	8.85	12	01
+88° 86 =	8	9.4	9.3	9.35 01	-0.57	-0.63	8.72	06	
+88° 80 =	9	9.3	9.5	9.40 11	-0.48	-0.61	8.79	13	
	10	8.5	8.6	8.55 10		-0.90	7.65	01	14
	11	9.3	9.4	9.35 10		-0.63	8.72	05	18
7 =	12	8.4	8.3	8.35 01	-0.96	-0.96	7.39	00	
6 =	13	8.0 8.1	8.1	8.10 00	-1.02	-1.03	7.07	01	
for unit.	14	6.6 6.7	6.9	6.80 11					
9 =	15	9.3	9.4	9.35 10	-0.74	-0.63	8.72	11	
+87° 15 =	16	8.7	8.7	8.70 00	-0.86	-0.84	7.86	02	
	17	8.7	8.7	8.70 00		-0.84	7.86	32	19
	18								

$$\begin{array}{r}
 +17. \\
 -22. \\
 \hline
 8) -05. \\
 -01. \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 +56. \\
 -111. \\
 \hline
 8) -1065. \\
 -13. \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 45 \\
 -46 \\
 \hline
 8) 91 \\
 \pm 11
 \end{array}$$

Thursday August 21, 1913.

Scale m.

Bipolar Variables

1:30

I 34718

T'

S Mrs. Mayrus.

alt. cov. 0.00

we. mid.

	pc.2	pc.2	pc.2	Curr Magn.	pc.2	pc.2	Curr Magn.
a	3.335	B.	3.5	8.9	8.9	8.90 0 0	-1.78 7.12
b	3.739	B.	3.9	9.3	9.5	9.40 1 1	-1.57 7.83
c	4.244	4.4	4.40 0 0	9.9	9.9	9.90 0 0	-1.34 8.56
d	4.648	4.8	4.80 0 0				
e	4.143	4.0	4.15 1 2	9.6	9.6	9.60 0 0	-1.48 8.12
f	4.850	5.3	5.15 2 1				
g ¹	5.254	5.4	5.40 0 0	3.06 8.46			
g ²	5.840	5.8	5.90 1 1	3.02 8.92			
g ³	6.440	6.4	6.50 1 1	2.99 9.49			
h	6.668	6.6	6.70 1 1	2.98 9.68			
k		7.6	7.7	7.65 0 1	3.01 10.66		
l	6.810		7.1	7.05 0 1	2.98 10.03		
m		8.1	7.9	8.00 1 1	3.04 11.04		
n		8.4	8.4	8.40 0 0	3.08 11.48		
o		8.8	8.8	8.80 0 0	3.10 11.90		
p ¹		9.2	8.9	9.05 2 1	3.11 12.16		
p ²		9.5	9.6	9.55 1 0	3.15 12.70		
q		9.8	9.8	9.80 0 0	3.17 12.97		
r		9.8	9.8	9.80 0 0	3.17 12.97		
s							
t							
S Mrs. Maj.	5.8		3.03	8.83			

Thursday August 21, 1913.

41

Scale m

Bicircumpolar Variables

I 34718

cont.

Polar Seq.

pc.1 pc.2 sc.2

sc.2

5				8.3	8.4	8.35	10-196
6				8.8	8.8	8.80	00-182
8				9.6	9.7	9.65	01-155
9				9.9	9.9	9.90	00-120
10	5.436	5.6					n.s.
11	6.466	6.4					
12	6.668	6.7					
13	6.941	7.3					
14		7.4	7.4				
15	7.	7.8	7.8				
16		8.3	8.2				
17		8.4	8.4				
18		8.7	8.8				
19		9.4	9.3				
20		9.5	9.5				
23		9.8	9.8				
25		n.s.					

Image of B.C.'s on Polar Seq. are elongated.

21/

Thursday August 21, 1913.

Scale m

Circumpolar Variables.

I 34718

cont Oct +2.00

S Ursa Majoris.

	sc.1	sc.2	sc.2	Curve Magn.	sc.2	sc.2	Curve Magn.	from	Mean	
Im. 100 foot.	a				8.6	8.6	8.60 00 -1.89	6.71	8.40	
	b	3.6 38		3.8 2:	9.5	9.4	9.45 10 -1.56	8.02	7.96	7.99 03 03
	c	4.3 45		4.5 2:	n.s.			8.69	8.69	. 2
	d	4.6 48		4.8 2:						
	e	3.8 40	4.0	4.00 00	9.5	9.5	9.50 00 -1.53	8.10	8.25	8.18 08 07
	f	5.3 55	5.3	5.40 11 3.06	8.46			from	Mean	
	g	5.3 55	5.3	5.40 11 3.06	8.46			P. 40		
	g ¹	6.1 63	5.9	6.10 22 3.01	9.11	9.05	9.14 10 09			
	* h	6.7 69	6.8	6.85 10 2.98	9.83					
	k		7.4	7.40 00 2.99	10.39					
	l		7.6	7.60 00 3.01	10.61					
	m		8.2	8.05 01 3.04	11.09					
	n		8.6	8.55 01 3.09	11.64					
	o		8.8	8.95 21 3.11	12.06					
	p		9.1	9.10 00 3.12	12.22					
	q		9.4	9.45 01 3.15	12.60					
	r		9.6	9.60 00 3.16	12.76					
	s		9.9	9.9 0 3.17	13.07					
	J Ursa M.	6.6 68	l	6.8 2.98	9.78					
	* g ²	6.3 65	6.5	6.50 00 2.99	9.49					
	g ¹					8.59	8.59	. 2		

* Stars b, c, d, e, g¹, g² are common to the sequences for S and Ursa Majoris. Hence means are taken of the two measures for the same stars. H.S.L. Oct. 31, 1914

2:45:

Monday, November 3, 1913.

Scale M

10:35

T' Plates

MD 2027

Circumpolar Variables

Cassiope. Alt. -0.04 Preceding Images.

alt.

not checked.

	sc.1	sc.2	sc.3	mean	Curve mag.	Curve Magn.
near edge.	a B.				B.	
b	4.2 4.4		4.2	4.30 12		
c	5.6 5.8		5.6	5.70 12	3.19	8.89 1.68 7.38
c'	6.4 6.6		6.3	6.45 21	3.34	9.19 1.44 7.89
d	6.6 6.8		6.6	6.70 12	3.41	10.11 1.36 8.06
d'		7.6	7.6	7.60 00	3.64	11.24 1.17 8.17
d''		8.2	8.1	8.15 02	3.83	11.98 1.13 9.28
e	6.6 6.8		6.6	6.70 12	3.41	10.11 1.37 8.07
f	6.8 7.0		7.2	7.10 11	3.51	10.61 1.26 8.36
g		8.3	8.2	8.25 10	3.89	12.14 1.14 9.39
g'		8.9	8.9	8.90 00	4.21	13.11 1.29 10.19
g''		8.1	8.1	8.70 00	4.10	12.80 1.23 9.93
h		8.3	8.3	8.30 00	3.92	12.22 1.15 9.45
k		8.9	9.0	8.95 10	4.22	13.17 1.31 10.26
l		8.8	8.8	8.90 00	4.48	13.88 1.25 10.05
l'		8.7	8.7	8.80 12	4.16	12.96 1.25 10.05
m		9.3	9.2	9.25 10	4.40	13.65 1.45 10.70
n		9.4	9.2	9.30 12	4.44	13.74 1.48 10.78
n'		9.3	9.4	9.35 10	4.46	13.81 1.51 10.86
o		9.4	9.1	9.55 21	4.56	14.11 1.62 11.17
o'			10.1	10.1 2	4.87	14.97
p		9.7	9.8	9.87 12 9.75 10	4.77	14.42 1.73 11.48
p'		10.0?		10.0? 2	4.80	14.80 1.84 11.84?

not star mean
 changes made
 Jan. 19, 1915.
 See note p. 45.

k. 9.0

l. 8.9

Wrong star l' 9.1

m. 9.3

* Remeasured Jan. 19, 1915

Wrong star measured here for l'. The correct star was measured
 and recorded for l' by mistake. See next page.

Ch. F. B.

Faint images do not compare well with
 scale - images are very sharp.

Monday, November 3, 1913.

Scale M

T' Plates

Circumpolar Variables

10:35

MD 2027

Cassiope. Oct. -0.04 Preceding Images.

	ac.1	ac.2	ac.3	Mean	Curv mag.	Curv. Magn.	
near edge.	a B.				B.		
b	4.2 4.4		4.2	4.30 12			
c	5.6 5.8		5.6	5.70 12	3.19	8.89	1.68 7.38
c'	6.4 6.6		6.3	6.45 21	3.34	9.19	1.44 7.89
d	6.6 6.8		6.6	6.70 12	3.41	10.11	1.36 8.06
d'		1.6	1.6	7.60 00	3.64	11.24	1.17 8.77
d ²		8.2	8.1	8.15 01	3.83	11.98	1.13 9.28
e	6.6 6.8		6.6	6.70 12	3.41	10.11	1.37 8.07
f	6.8 7.0		7.2	7.10 11	3.51	10.61	1.26 8.36
g		8.3	8.2	8.25 10	3.89	12.14	1.14 9.39
g'		8.9	8.9	8.90 00	4.21	13.11	1.29 10.19
g ²		8.1	8.1	8.70 00	4.10	12.80	1.23 9.93
h		8.3	8.3	8.30 00	3.92	12.22	1.15 9.45
k		8.9	9.0	8.95 10	4.22	13.17	1.31 10.26
l		8.8	8.8	9.40 00	4.48	13.88	1.25 10.05
l'		8.7	8.7	9.49.4	4.48	13.88	1.53 10.93
m		9.3	9.2	9.25 10	4.16	12.96	1.25 10.05
n		9.4	9.2	9.30 12	4.40	13.65	1.45 10.70
n'		9.3	9.4	9.35 10	4.44	13.74	1.48 10.78
o		9.4	9.1	9.55 21	4.56	14.11	1.62 11.17
o'			10.1	10.1 9	4.87	14.97	
p		9.7	9.8	9.87 12 9.75 10	4.67	14.42	1.73 11.48
p'		10.0?		10.0? 5	4.80	14.80	1.84 11.84?

no star measured
 changes made
 Jan. 19, 1915.
 See note p. 45.

* Sc. 2

k. 9.0

l. 8.9

Wrong star l' - 9.1

m. 9.3

* Remeasured Jan. 19, 1915

Wrong star measured here for l'. The correct star was measured
 and recorded for l' by mistake. See next page.

Ch. F. B.

Faint images do not compare well with
 scale - images are very sharp.

Monday November 3, 1913.

Scale m.

Circumpolar Variables.
cont.

M 20 27

A Cassiope

	sc. 2	sc. 2	mean	Diff.
5 B.				B.
6	5.15.3	5.1	5.20.1	+1.78
7				
8	6.46.6	6.7	6.65.0	+1.45
9	7.1	7.6	7.50.1	+1.20
10	7.7	7.8	7.75.0	+1.14
11	8.5	8.3	8.40.1	+1.02
12	8.9	8.9	8.70.0	+1.03
13	8.9	8.8	8.85.0	+1.32
14	8.9	9.1	9.00.1	+1.52
15	9.4	9.4	9.40.0	+1.54
16	9.6	9.6	9.60.0	+1.66
17	9.8	9.9	9.85.0	+1.64
18		9.7		

Mon.
~~Friday~~ November 3, 1915.

Scale M.

Circumpolar Variables.

MD 2021

J. Cassiope. det -0.04 Following Images.

	pc.1	pc.2	pc.3	Mean	Curve	Magn.	Preceding Images P.43	Mean	
near edge.	a B.								
	b	4.143	4.2	4.25	1.0				
	c	5.658	5.1	5.75	0.1	1.67	7.42	7.38	7.40 0.2 0.2
	c'	6.2164	6.2	6.30	1.2	1.49	7.79	7.89	7.84 0.5 0.5
	d	6.169	6.6	6.75	1.2	1.35	8.10	8.06	8.08 0.2 0.2
	d'	1.4	7.4	7.40	0.0	1.31	8.61	8.77	8.69 0.8 0.8
	d''	1.8	7.8	7.80	0.0	1.15	8.95	9.28	9.12 1.7 1.6
	e	6.668	6.6	6.70	1.1	1.37	8.07	8.07	8.07 0.0 0.0
	f	6.870	6.8	6.90	1.1	1.31	8.21	8.36	8.28 0.7 0.8
	g	8.0	7.8	7.90	1.1	1.14	9.04	9.39	9.22 1.2 1.7
	g'	8.8	8.7	8.75	0.1	1.24	9.99	10.19	10.09 1.0 1.0
	g''	8.1	8.4	8.55	1.2	1.20	9.75	9.93	9.84 0.9 0.9
	h	8.4	8.4	8.40	0.0	1.16	9.56	9.45	9.50 0.6 0.5
nr. unit.	k	8.8	8.1	8.75	0.1	1.24	9.99	10.26	10.12 1.3 1.4
	l	8.8	8.8	8.80	0.0	1.25	10.05	10.92	10.05 0.0 0.0
	l'	9.4	9.4	9.40	0.0	1.53	10.93	10.93	11.07 0.0 0.0
	m	9.2	8.8	9.00	2.3	1.32	10.32	10.70	10.51 1.9 1.9
	n	9.1	9.2	9.15	1.0	1.40	10.55	10.78	10.66 1.1 1.2
	n'	9.2	9.5	9.35	2.1	1.50	10.85	10.86	10.86 0.1 0.0
	o	9.1	9.1	9.70	0.0	1.70	11.40	11.17	11.28 1.2 1.1
	o'	9.8	9.8	9.80	0.0	1.75	11.55		11.55 0.0
	p	9.6	9.6	9.60	0.0	1.65	11.25	11.48	11.36 1.1 1.2
	p'							11.84?	11.84? 0.0
									mean of meas. ch. by O.

Owing to a confusion in the marking, the wrong star was measured for l' on the preceding exposure. l' was remeasured, but the observation was recorded for star l by mistake as shown by examination of plate on Jan. 19, 1915. See corrections in red ink on John G. Wobach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday November 6, 1913.

Scale m.

Circumpolar Variables.

10:10

M 10 2044

R Aurigae

T'

Alt. +0.01

Preceding Images.

	pc.1	pc.2	pc.2	Mean	Cum. Magn.
a B.		B.			B.
b	4.9 5.1		5.3	5.20 ± 2.36	7.56
c	4.6 4.8		4.9	4.85 ± 2.50	7.35
c'	5.4 5.6		5.5	5.55 ± 2.21	7.76
c ²	5.9 6.1		6.2	6.15 ± 2.03	8.18
d	6.3 6.5		6.4	6.45 ± 1.97	8.42
e	6.7 6.9		6.8	6.85 ± 1.88	8.73
f		7.6	7.7	7.65 ± 1.77	9.42
g		7.7	7.8	7.75 ± 1.75	9.50
g'		7.7	7.7	7.70 ± 1.76	9.46
g ²		8.4	8.6	8.50 ± 1.81	10.31
g ³		8.7	8.8	8.75 ± 1.87	10.62
h		8.7	8.7	8.70 ± 1.85	10.55
k		8.8	8.8	8.80 ± 1.88	10.68
l		8.9	8.8	8.85 ± 1.89	10.74
m		9.7	9.8	9.75 ± 2.05	11.90
n		9.3	9.4	9.35 ± 2.04	11.39
o		9.7	9.7	9.70 ± 2.14	11.84
o'		9.9	10.0	9.95 ± 2.21	12.16
p		n.s.	±		F

11:25

Thursday November 6, 1913.

Scale M.

Circumpolar Variables.

M.D. 20.44 cont. T' R Aurigae

Polar

	20.1	20.2	20.2	Mean	Diff.
5 B.					
6	4.24		4.1	4.2521	+2.73
8	5.860		6.2	6.1011	+2.00
9	6.668		6.1	6.7501	+1.95
10	6.769		7.2	7.0512	+1.84
11		7.7	7.6	7.6510	+1.77
12		7.8	8.2	8.0012	+1.73
13		8.4	8.4	8.4000	+1.77
14		8.7	8.7	8.7000	+1.82
15		8.8	8.8	8.8000	+2.14
16		9.3	9.1	9.2012	+2.06
17		9.4	9.5	9.4501	+2.04
18		9.8	9.8	9.8000	+2.12
19		n.s.			
20					

Thursday November 6, 1913.

Scale m -

Circumpolar Variables - T

M D 2044

cont.

R Aurigae

alt. +001

Following Images.

	pc. 1	pc. 2	pc. 3	Mean	Curve	Magn.	Pre. Images	Mean
a B.								
b	4.9 5.1		5.3	5.20 ± 1	2.35	7.55	7.56	7.56 ± 0.00
c	4.6 4.8		4.8	4.80 ± 0	2.52	7.32	7.35	7.34 ± 0.01
(w. star. 5.8)			5.3					
c'	5.3 5.5		5.8	5.40 ± 1	2.28	7.68	7.76	7.72 ± 0.04
c ²	5.7 5.9		5.8	5.85 ± 0	2.12	7.97	8.18	8.078 ± 0.10
d	6.4 6.6		6.4	6.50 ± 1	1.95	8.45	8.42	8.44 ± 0.02
e	6.6 6.8		6.7	6.75 ± 0	1.90	8.65	8.73	8.69 ± 0.04
f		7.6	7.6	7.60 ± 0	1.77	9.37	9.42	9.40 ± 0.02
g		7.8	7.8	7.80 ± 0	1.75	9.55	9.50	9.52 ± 0.02
g'		7.8	7.7	7.75 ± 0	1.75	9.50	9.46	9.48 ± 0.02
g ²		8.4	8.4	8.40 ± 0	1.79	10.19	10.31	10.25 ± 0.06
g ³		8.7	8.6	8.65 ± 0	1.83	10.48	10.62	10.55 ± 0.07
h		8.7	8.7	8.70 ± 0	1.85	10.55	10.55	10.55 ± 0.00
k		8.7	8.7	8.70 ± 0	1.85	10.55	10.68	10.62 ± 0.06
l		9.2	8.9	9.05 ± 1	1.94	10.99	10.74	10.86 ± 0.12
m		9.7	9.6	9.65 ± 0	2.12	11.77	11.90	11.84 ± 0.06
n		9.3	9.4	9.35 ± 0	2.04	11.39	11.39	11.39 ± 0.00
o		9.7	9.7	9.70 ± 0	2.14	11.84	11.84	11.84 ± 0.00
o'		10.0	10.0	10.00 ± 0	2.24	12.24	12.16	12.16 ± 0.08
p		3.						

Wed.

Tuesday November 18, 1913.

Sc. C 14147

9:53

Measures of C 14146 for Mr. King.

C 14146

	1	1	2	3	4
i	ns.	tp	tp	tp	7.1
e	6.1		B.	B.	4.4
a	2.3		B.	B.	B.
b	2.6		B.	B.	B.
j'	2.8		4.7	5.7	4.7 ns.
a'	4.2		B.	B.	B.
b'	4.7		B.	B.	2.6
h	ns.		tp.	2.3	6.4
l	ns.		7.4	1.9	ns.
g	7.8		B.	1.4	5.6
k	ns.		5.6	6.4	ns.
j	2.9 ns.		2.9	4.2	7.8

10:06

Thursday January 1, 1914:

Scutum

Circumpolar Variables

10:30

m.d. 2022

Rannigae

act +0.01

Light cl'ds.

sc.1 sc.2 sc.3 Curv Magn.

no. P.C.

a	3.7 ³⁹ 34 ³⁶ B.1 ^{37.5} i ^{1.2}	2.54	6.29
b	5.1 ^{5.9} 6.1 ^{6.0} i ¹	1.34	7.34
c	5.6 ^{5.8} 5.8 ^{5.8} 0.0	1.38	7.18
c'	6.4 ^{6.6} 6.7 ^{6.65} 0.1	1.19	7.84
c''	7.0 ^{7.10} 7.2 ^{7.10} 1.1	1.10	8.20
d	7.3 ^{7.35} 7.4 ^{7.4} 1.0	1.05	8.40
e	7.8 ^{7.80} 7.8 ^{7.8} 0.0	0.97	8.77
f	8.4 ^{8.40} 8.4 ^{8.4} 0.0	0.89	9.29
g	8.4 ^{8.50} 8.6 ^{8.6} 1.1	0.90	9.40
g'	8.7 ^{8.70} 8.7 ^{8.7} 0.0	0.92	9.62
g ²	9.2 ^{9.25} 9.3 ^{9.3} 0.1	1.05	10.30
g ³	9.3 ^{9.30} 9.3 ^{9.3} 0.0	1.06	10.36
h	9.5 ^{9.50} 9.5 ^{9.5} 0.0	1.14	10.64
k	9.4 ^{9.45} 9.5 ^{9.5} 0.1	1.12	10.57
l	9.7 ^{9.70} 9.7 ^{9.7} 0.0	1.25	10.95
m	n.s.	n.s.	.
n	9.9 ^{9.85} 9.8 ^{9.8} 1.0	1.32	11.17
o	1.	1.	7
o'			
p			

ur unit.

Var.

8.7 0.93 76 9.63

Line of faint stars very sharp and slightly elongated. Not quite comparable with scale.

10:55

Thursday January 1, 1914.

Scale m

Luminous Variables

10:55

m 20 22

R Aurigae cont.

pc. 2

Polar Seq.

pc. 1 pc. 2

Diff.

no P.C.

5	3.9	3.90	2	3.9	2.49
6	5.8	5.55	2	5.3	1.43
8	6.9	6.90	0.0	6.9	1.20
9	7.7	7.75	1.0	6.9	0.95
10	7.9	7.90	0.0	7.9	0.99
11	8.6	8.60	0.0	8.6	0.82
12	8.1	8.70	0.0	8.1	1.03
13	9.2	9.20	0.0	9.2	0.97
14	9.4	9.40	0.0	9.4	1.12
15	9.6	9.60	0.0	9.6	1.34
16	9.7	9.70	0.0	9.7	1.56
17	10.1	10.10	0.0	10.1	1.39
18					
19					
20					

11:10

52

Thursday January 1, 1914

Scale m.

Circumpolar Variables

11:15 - 11:

m 20 22

cont. ~~alt +0.1~~ R. Aurigae. alt. +0.01
following line.

	pc.1	pc.2	pc.2	Curve Magn.	Preceding images (corr.) Mean	
a	3.2 3.6 3.65 1.0 3.534	5.85 1.0	B.		6.38	6.38 .2
b	5.9 5.85 1.0 5.8			1.38 7.23	7.47	7.42 .05
c	5.8 5.75 0.1 5.6	5.1		1.40 7.15	7.31	7.30 .01
c'	6.5 6.45 1.0 6.3	6.4		1.24 7.69	7.97	7.90 .07
c''	6.8 7.00 2.2 6.6	7.2		1.12 8.12	8.33	8.29 .04
d	7.4 7.40 0.0 7.4	7.4		1.05 8.45	8.53	8.56 .02
e	7.6 7.60 0.0 7.6	7.6		1.00 8.60	8.90	8.82 .08
f	8.4 8.45 0.1 8.4	8.5		0.90 9.35	9.42	9.45 .03
g	8.6 8.60 0.0 8.6	8.6		0.92 9.52	9.75	9.70 .05
g'	9.2 9.05 2.1 9.2	8.9		0.99 10.04	10.43	10.30 .13
g''	9.4 9.35 0.1 9.4	9.3		1.09 10.44	10.49	10.53 .04
h	9.4 9.35 0.1 9.4	9.3		1.09 10.44	10.77	10.67 .10
h'	9.2 9.25 0.1 9.2	9.3		1.05 10.30	10.70	10.56 .13
h''	9.5 9.50 0.0 9.5	9.5		1.14 10.64	11.09	10.93 .16
i	n.s.?	n.s.				
n	9.8 9.80 0.0 9.8	9.8		1.30 11.10	11.31	11.28 .04
o	9.8			F		
o'	8.6 8.60 0.0 8.6	8.6		0.92 9.52	9.76	9.70 .05
Var						

not too close to star
to measureVery faint in scan
which may be a defect

11:40

Friday January 2, 1914.

Copied on sheets.

Scale m.

q: 45

Circumflex Variables

M 2025

alt. + 0.04

A. Lyncis.

Preceding Images.

	pc. 1	pc. 2	a	Curve	Magn.
a	36 ³⁸	38 ⁰	2.72	6.52	
b	4.8 ^{5.0}	5.4 ^{5.20}	2.18	7.38	
double. P	5.6 ^{6.0}	6.05 ^{0.1}	1.83	7.88	
c	6.8 ^{6.1}	6.1 ^{6.15}	1.75	7.90	
d	5.9 ^{7.1}	7.15 ^{1.0}	1.50	8.65	
e	6.9 ^{7.2}	7.45 ^{1.0}	1.47	8.92	
f	7.5 ^{7.80}	7.8 ^{1.0}	1.45	9.25	
g	8.2 ^{8.25}	8.3 ^{0.1}	1.49	9.74	
h	8.6 ^{8.60}	8.6 ^{0.0}	1.53	10.13	
i	8.9 ^{8.70}	8.9 ^{0.0}	1.55	10.25	
j	9.2 ^{9.20}	9.2 ^{0.0}	1.68	10.88	
k	9.4 ^{9.40}	9.4 ^{0.0}	1.74	11.14	
l	9.4 ^{9.35}	9.3 ^{0.1}	1.72	11.07	
m	9.7 ^{9.75}	9.8 ^{1.0}	1.84	11.59	
n	9.7 ^{9.70}	9.7 ^{0.0}	1.82	11.52	
o	9.7	9.7			
o ²	±				
p					
Var.	n.s.				

Friday, January 2, 1914.

Scale m

10:05

Circumferential Variables.

m 20 20

R Lyræis cont.

Polar Seq.

	sc. 1	sc. 2	sc. 2	Diff.
5	3.34	3.33	3.35	0.1
6	4.3	4.5	4.40	0.1
8	6.3	6.5	6.45	0.1
9	7.3	7.30	7.3	0.0
10	7.4	7.40	7.4	0.0
11	7.8	7.80	7.8	0.0
12	8.4	8.40	8.4	0.0
13	8.6	8.65	8.6	0.0
14	8.8	8.80	8.8	0.0
15	9.2	9.20	9.2	0.0
16	9.5	9.45	9.4	0.1
17	9.7	9.75	9.7	0.0
18	±	±	±	±
19				
20				

Friday, January 2, 1914-

Copied on sheets.

Scale m.

Circumpolar Variables

R Lyncis cont.

10:12

mΔ 2025-

alt +0.04

Following Images.

	sc.1	sc.2	sc.2	Curve	Magn.
a	3.6	3.9	3.85	2.80	6.65
no unit.	4.8	5.0	5.15	2.20	7.35
double	5.4	5.6	5.65	2.00	7.65
d	6.1	6.3	6.30	1.70	8.00
e	6.7	6.9	6.90	1.53	8.43
f ¹	7.0	7.40	7.3	1.47	8.87
f ²	7.7	7.80	7.9	1.45	9.25
g	8.3	8.30	8.3	1.49	9.79
h ¹	8.5	8.55	8.6	1.52	10.07
h ²	8.7	8.80	8.9	1.58	10.38
k	9.2	9.30	9.4	1.71	11.01
l	9.6	9.60	9.6	1.79	11.39
m	9.4	9.40	9.4	1.73	11.13
n	9.8	9.75	9.7	1.82	11.57
o ¹	9.8	9.75	9.7	1.82	11.57
o ²	±	±		F	
p					

Monday January 5, 1914.

Scale U

10:05

Circumpolar Variables

MC # 2025

act +0.04

Copied on sheets

R Lyncis.

Preceding Images.

sc.1 sc.2

Curve Magn.

P.C.

Curve

Magn.

a B.

6.2³⁰ 6.4¹¹

-0.08

6.22

b B.

13⁴⁵ 16¹²

-0.20

7.25

c .

double.

.

.

d 4.4 B.

8.6⁵⁰ 8.4¹¹

-0.32

8.18

e 4.8 B.

8.8⁰⁰ 9.2²²

-0.37

8.63

f 5.2⁵²⁰ 5.2⁰⁰

3.65

8.85

9.6⁵⁰ 9.4¹¹

-0.42

9.08

g 5.5⁵⁴⁵ 5.4⁰⁰

3.64

9.09

9.5⁵⁰ 9.5⁰⁰

-0.42

9.08

h 5.9⁵⁷⁵ 5.6¹²

3.62

9.37

9.8⁷⁵ 9.1⁰¹

-0.45

9.30

h' 6.3⁶³⁰ 6.3⁰⁰

3.62

9.92

n.s.

h² 6.5⁶³⁵ 6.2¹²

3.62

9.97

9.5 w.s.

k 7.1⁷⁰⁰ 5.9¹⁶¹

3.67

10.67

l 7.4⁷⁴⁰ 7.4⁰⁰

3.70

11.10

m 7.2⁷²⁰ 7.2⁰⁰

3.68

10.88

n 7.8⁷⁷⁵ 7.7⁰¹

3.74

11.49

o' 7.6⁷⁶⁵ 7.6⁰¹

3.72

11.32

o² 8.4⁸⁴⁰ 8.4⁰⁰

3.81

12.21

p 8.6⁸⁶⁰ 8.6⁰⁰

3.84

12.44

q 8.8⁸⁸⁰ 8.8⁰⁰

3.86

12.66

r' 9.6⁹⁶⁰ 9.6⁰⁰

.

.

r² 9.7⁹⁷⁰ 9.7⁰⁰

.

.

s .

.

.

t .

.

.

{double +
p.c. double

w. w.s.

(88 w.s.)

Monday January 5, 1914.

Scale 22

Circumpolar Variables
MC 2025Polar
→

	sc.1	sc.2	Diff.
5			
6			
8			
9			
10	5.4	5.25 2 1 5.1	3.64
11	5.7	5.65 1 0 5.6	3.77
12	6.3	6.35 1 0 6.4	3.38
13	6.4	6.45 0 1 6.5	3.72
14	6.6	6.65 0 1 6.7	3.87
15	7.3	7.25 1 0 7.2	3.69
16	7.4	7.40 0 0 7.4	3.86
17	7.6	7.65 0 0 7.7	3.82
18		8.2 8.20 0 0 8.2	3.72
19		8.6 8.55 0 1 8.5	3.73
20		8.7 8.70 0 0 8.7	3.89
23		9.2 9.25 0 1 9.3	3.95
25	def.	.	.
26	n.s.	.	.

R Lyncis

P.C.	sc.2	Diff.
	6.40 0 0 6.4 6.4	-0.01
	1.27 1.20 0 0 1.2 1.2	-0.22
	8.4 8.40 0 0 8.4 8.4	-0.30
	9.1 9.10 0 0 9.1 9.1	-0.40
	9.3 9.35 0 0 9.3 9.4	-0.46
	9.1 9.70 0 0 9.1 9.1	-0.28
	± .	.

Monday January 5, 1914

Copied on sheets.

Scale II

Circumpolar Variables

MC 2025

act. +0.04

R Lyncis

Following.

(Film up, Number top) R.H. Lyncis

	sc.1	sc.2	Curve Magn.			Curve Magn.	
aB.					6.3 ^{6.30 0.0}	-0.08	6.22
b					7.3 ^{7.35 0.0}	-0.20	7.15
c					double.	-0.30	.
d 4.5					8.4 ^{8.35 0.1}	-0.30	8.05
e 4.7 B.					8.6 ^{8.65 0.1}	-0.34	8.31
f 5.2 B.			3.65	8.8 ⁵	9.3 ^{9.25 0.0}	-0.40	8.85
g 5.6 ^{5.50 0.1}		5.4	3.63	9.13	9.6 ^{9.60 0.0}	-0.43	9.17
h 5.9 ^{5.75 0.1}		5.6	3.62	9.37	tp tp.	.	9
i 6.3 ^{6.25 0.0}		6.2	3.62	9.87			
j 6.7 ^{6.55 0.1}		6.4	3.63	10.18			
k 6.8 ^{6.85 0.1}		6.9	3.66	10.51			
l 7.4 ^{7.40 0.0}		7.4	3.70	11.10			
m 7.2 ^{7.20 0.0}		7.2	3.69	10.89			
n 7.7 ^{7.65 0.1}		7.6	3.72	11.37			
o' 7.7 ^{7.65 0.1}		7.6	3.72	11.37			
ov		8.4	3.81	12.21			
p		8.6	3.84	12.44			
q		8.8	3.86	12.66			
r' 9.6 ^{9.60 0.0}		9.6	.	.			
r''		9.6	.	.			
s		f					
t							

Var.

11:50

20^{mm} out - interrupted
Turn to look for plates

Beginning here, reductions made ~~reusing~~
Revised Magns.

59

Monday January 12, 1914-

Scale U

Circumpolar Variables

10:30

MC 2030

Get. corr. 0.00

R Urs. Maj.

Upper Images.

1st. exp.

P.C.

sc. 1 sc. 2

sc. 2 Curv magn.

a 3.0

Curve Magn.

5.8

+0.93 6.73

b t.p.

1.1

-0.123

7.47 0.59 8.29

off plate

c

d t.p.

6.8

-0.14

6.66 0.73 7.53

off plate

e

f t.p.

1.1

-0.23

7.47 0.59 8.29

g 4.4

4.23 8.63

8.3

-0.30

8.00 0.56 8.86

h 4.1

1.4

-0.20

7.20 0.63 8.03

k 4.8

4.28 9.08

9.3

-0.41

8.89

l 4.6

4.25 8.85

8.1

-0.34

8.36 0.54 9.24

m 4.7

4.26 8.96

8.6

-0.33

8.27 0.54 9.14

n 5.5

3.64 9.14

9.8

-

o 5.9

3.62 9.52

9

-

p 5.9

3.62 9.52

9

-

q 5.9

3.62 9.52

9

-

r 6.6

3.63 9.13

10.93

-

s 6.7

3.65 10.35

4.45

11.15

Re-measured Jan. 13, 1915

t 6.6

3.64 10.24

4.43

11.03

9.7 m. Evidently no error in previous measures.

u 7.4

3.70 11.05

4.48

11.83

9.4

v 7.6

3.72 11.32

4.49

12.09

8.7

w 8.2

3.78 11.98

4.54

12.74

8.5

x 8.6

3.83 12.43

4.60

13.20

8.6

y 9.4

3.98 13.38

4.82

14.22

8.6

z 8.6

3.98 13.38

4.82

14.22

8.6

aa 8.6

3.98 13.38

4.82

14.22

8.6

ab 8.6

3.98 13.38

4.82

14.22

8.6

ac 8.6

3.98 13.38

4.82

14.22

8.6

ad 8.6

3.98 13.38

4.82

14.22

8.6

ae 8.6

3.98 13.38

4.82

14.22

8.6

af 8.6

3.98 13.38

4.82

14.22

8.6

ag 8.6

3.98 13.38

4.82

14.22

8.6

ah 8.6

3.98 13.38

4.82

14.22

8.6

ai 8.6

3.98 13.38

4.82

14.22

8.6

aj 8.6

3.98 13.38

4.82

14.22

8.6

* Ink ^{blue} on plate probably interfered with measure. Upon 2nd examination, I think 9.4 is incorrect and should be rejected. ^{Reject: N.S.L.} 2nd measure more nearly correct. O. Jan. 13, 1915
Images are elongated and prismatic companions are poor.

60

Monday January 12, 1914.

Scum

Circumpolar Variables

mc 2030		Cont		R Urs. Maj.	
polar		mean.	Diff.	P.C.	pcz
5				pcz	5.4
6				5.5	5.4
8				6.3	6.3
9				7.1	7.6
10	4.1 B.	4.70	2.0	8.3	8.4
11	5.4 15.2	5.30	1.1	8.4	8.6
12	5.6 5.4	5.50	1.1	8.8	8.8
13	5.9 5.8	5.85	1.0	sup.	sup.
14	6.4 6.3	6.35	0.1	8.6 def sup.?	
15	6.7 6.6	6.65	1.0		
16	6.8 6.6	6.70	1.1		
17	7.2 7.3	7.25	0.1		
18	7.6 7.6	7.60	0.0		
19	7.9 7.9	7.90	0.0		
20	8.4 8.3	8.35	0.1		
23	8.6 8.7	8.65	0.1		
25	9.2 9.2	9.20	0.0		
26	9.4 9.4	9.40	0.0		
27	9.8 9.8	9.80	0.0		
28	n.s.				

P.C. poor.

Monday January 12, 1914

Scale 11

Bicircular Variables

mc 2030

Get corr. to 0.00

cont

R Urs. maj.

Lower

Images.

2nd exp.

P.C.

sc.1 sc.2

sc.2 Curve magn.

a B

Curve magn.

59 0.91 6.81

b t.p.

1.7 0.59 8.29

c

d t.p.

* 1.8 0.13 1.53
~~0.58 8.38~~

e

two fair from c.
edge

f t.p.

1.6 0.60 8.20

g 4.4

4.24 8.64

1.7 0.59 8.29

h 4.2

* 1.6 0.60 8.20

k 4.1

4.26 8.96

* 1.6 0.60 8.20
~~0.54 9.14~~ E.

l 4.6

4.25 8.85

8.1 0.54 9.24

l' 4.1

4.27 8.97

8.1 0.54 9.24

m 5.4

4.35 9.75

4. 7

m' 5.8

4.38 10.18

m 5.8

4.38 10.18

P.C. Remeasured Jan. 13, 1915

o 5.1

5.70 5.1

4.37 10.07

Sc.1

Sc.2

S.F.M. Co.

o' 6.4

6.40 6.4

4.42 10.82

h 4.2

7.5

o'' 6.1

6.65 6.6

4.45 11.10

k 4.1

9.5

p 6.6

6.60 6.6

4.44 11.04

l 4.6

8.6

q 6.8

6.95 7.1

4.47 11.42

r 7.4

7.45 7.5

4.49 11.94

s 8.2

8.2 4.54

4.50 12.74

t 8.6

8.6 4.60

4.60 13.10

t 8.5

u 8.9

8.9 4.67

4.60 13.57

u 8.6

Var. 4.6

4.25 8.85

* Remeasured independently 6.8 Jan. 11, 1915

10.29

Tuesday
Monday January 20, 1914.

Scale m.

Series 113

9:15

Continued from Bk III, P. 219

Mc 3716

Pole.

pc.1 pc.2 pc.3

P.C.

sc.2 sc.3

Mc 3722

mean

Diff.

5

sc.2

5.5 5.55 1.0

570

5.62 07 08

0.87

6

5.8 6.1

6.60

6.28 33 32

0.83

8

7.50 1.1

7.65

7.58 08 07

0.65

9

mean.

Diff.

7.80 0.0

8.20

8.00 20 20

0.83

10

3.0

3.8 3.40 4 4

5.58

7.80 0.0

8.35

8.08 28 27

0.94

11

3.9

4.0 3.95 1 0

5.60

8.4 8.4

8.70

8.55 15 15

1.00

12

4.0

4.5 4.25 2 3

5.61

8.7 8.6

8.85

8.75 10 10

1.11

13

4.8

5.0 4.90 1 1

5.40

9.05 1.2

9.35

9.20 15 15

1.10

14

5.5

5.8 5.65

5.00

9.4 9.5

9.65

9.55 10 10

1.10

15

5.8

5.9 5.85 0 1

5.23

9.75 0.1

9.85

9.80 05 05

1.28

16

6.1

6.6 6.35 3 2

5.05

7.5

7.5

7.5

7.5

Im. peculiar shape.

17

6.5 6.45 0.1

6.60 6.55 1 0

5.08

6.8

6.7

18

7.0 7.05 0.1

7.10 7.08 03 02

4.98

-1.7

+1.7

19

7.4

7.6 7.50 1 1

4.92

6.8

6.7

20

7.7

7.7 7.70 0 0

5.03

-1.7

+1.7

23

8.3

8.2 8.25 1 0

5.09

1.5

1.5

25

8.6

8.50 8.55 0 1

5.32

-0.8

+0.8

26

8.8 8.85 0.1

8.75 8.80 05 05

5.53

1.51

1.49

27

9.2 9.20 0.0

8.90 9.05 15 15

5.64

-1.5

+1.5

28

9.4 9.40 0.0

9.40 9.40 00 00

5.71

29

9.6 9.65 0.1

9.70 9.68 03 02

5.98

30

9.9 9.90 0.0

10.00 9.95 05 05

6.09

copied.

9 10
5 5
10-14 -18 -20

15-20 53 52
-0.9 +0.9

23-27 30 30
+0.8 -0.8

0.8 0.1
3 3
-0.3 +0.2

1.29 1.0

Tuesday January 20, 1914.

Copied. *Card.*

Series 113.

Scale m.

mc 3719

C 12

23 + 15.

alt. + 16

P.C.*

sc.1 sc.2 sc.3

sc.2 sc.3 Curv Magn.

1 B.

5.1 ^{5.20} ^{1.1} 5.3

too far from

2

Curv Magn.

6.4 ^{6.35} ^{0.1} 6.3 0.82 7.17

3

1.3

6.4 ^{6.40} 0.82 7.22

4

1.8

6.4 ^{6.50} ^{1.1} 6.6 0.81 7.31

5

1.6

6.8 ^{6.80} ^{0.0} 6.8 0.81 7.61

6

2.2

7.4 ^{7.50} ^{1.1} 7.6 0.83 8.33

too far from

7

7.4 ^{7.40} ^{0.0} 7.4 0.83 8.23

near edge.

8

7.6 ^{7.60} ^{0.0} 7.6 0.85 8.45

9

2.5

7.9 ^{8.05} ^{1.2} 8.2 0.90 8.95

10

2.5

8.1 ^{8.15} ^{1.0} 8.2 0.91 9.06

11

3.1

5.83 8.93

8.3 ^{8.35} ^{1.0} 8.4 0.93 9.28

12

3.3

5.77 9.07

8.5 ^{8.50} ^{0.0} 8.5 0.96 9.46

13

3.7

5.67 9.37

8.7 ^{8.70} ^{0.0} 8.7 0.99 9.69

14

3.7

5.67 9.37

8.7 ^{8.75} ^{1.0} 8.8 1.00 9.75

15

3.3

5.80 8.95

8.7 ^{8.75} ^{1.0} 8.8 1.00 9.75

16

3.5

5.71 9.21

9.2 ^{9.35} ^{2.1} 9.5 1.11 10.46

17

4.1

5.55 9.65

9.5 ^{9.55} ^{1.0} 9.6 1.16 10.71

18

5.1

5.30 10.40

10.0 ^{10.00} 1.26 11.26

Imm. too elong

19

n.s.

20

5.8

6.00 ± 2

5.10 11.10

n.s.

(5.8 end. wr. mass)

21

6.3

6.35 ± 0

5.06 11.41

n.s.

22

7.3

5.01 12.31

n.s.

23

7.4

5.02 12.42

n.s.

24

7.6

5.05 12.65

n.s.

25

7.7

5.07 12.77

n.s.

* P.C. from - elongated: - not comp. with scale.

(over)

64

Tuesday January 20, 1914.

Scale M.

Series 113

mc 3719

C 12

cont.

alt. +. 16

	ac. 2	ac. 2	Curve	Magn.
26	7.8		5.10	12.90
27	8.3 ^{8.35}	8.4 ^{1.0}	5.27	13.62
28	8.2 ^{8.20}	8.2 ^{0.0}	5.21	13.41
29	8.9 ^{9.00}	9.1 ^{1.1}	5.56	14.56
30	9.2 ^{9.25}	9.3 ^{0.1}	5.70	14.95
31	9.6 ^{9.65}	9.7 ^{0.1}	5.91	15.56
32	f.			F
33	h.s.			

Scale m

Leopold Tuesday January 20, 1914
Card. Series 113

mc3720

67 K.

Alt. +1.20

P.C.

sc.1	sc.2	sc.2	Curve	magn.	sc.2	sc.2	Curve	magn.
1	1.1 ^{1.9}				6.8	6.8 ^{0.00}	0.81	7.61
2	2.6 ^{2.8}				7.8	7.70 ^{1.1}	0.86	8.56
3	3.6 ^{3.8}		5.63	9.43	9.2	9.05 ^{2.1}	1.05	10.10
4	4.2 ^{4.4}		5.47	9.87	9.1	9.00 ^{1.1}	1.04	10.04
5	5.2 ^{5.4}		5.23	10.63	9.8	9.75 ^{0.1}	1.20	10.95
6	5.2 ^{5.4}		5.23	10.63	10.0	10.00 ^{0.00}	1.26	11.26
7	6.3 ^{6.5}		5.04	11.54				
8	6.6 ^{6.80 0.0}	6.6	5.01	11.81				
9	6.7 ^{6.75 1.0}	6.8	5.01	11.76				
10	7.2		5.00	12.20				
11	7.8 ^{7.70 1.1}	7.6	5.07	12.77				
12	8.1 ^{8.00 1.1}	7.9	5.15	13.15				
13	8.6 ^{8.50 1.1}	8.4	5.32	13.82				
14	9.1 ^{9.00 1.1}	8.9	5.56	14.56				
15	9.2 ^{9.25 0.1}	9.3	5.70	14.95				

P.C. from - very much elongated, and difficult to measure.

66

Tuesday January 20, 1914.

Scalem.

Series 113.

mc 3722

Pole

	sc.1	sc.2	sc.2	P.C. sc.2
5				5.7 ^{5.70 00}
6				6.6 ^{6.60 00}
8				7.1 ^{7.65 10}
9				8.2 ^{8.20 00}
10	3.6 ^{3.8}			8.3 ^{8.35 10}
11	3.8 ^{4.0}			8.4 ^{8.70 00}
12	4.3 ^{4.5}			8.8 ^{8.85 01}
13	4.8 ^{5.0}			9.3 ^{9.35 10}
14	5.6 ^{5.8}			9.6 ^{9.65 01}
15	5.7 ^{5.9}			9.9 ^{9.85 10}
16	6.4 ^{6.6}			n.s.
17	6.4 ^{6.6 6.60 00}			
18	6.9 ^{7.1 7.10 00}	7.1		
19		7.6		
20		7.7		
23		8.2		
25		8.6 ^{8.50 11}	8.4	
26		8.8 ^{8.75 01}	8.7	
27		8.9 ^{8.90 00}	8.9	
28		9.4 ^{9.40 00}	9.4	
29		9.7 ^{9.70 00}	9.7	
30		10.0 ^{10.00 00}	10.0	

See page 62

Tuesday January 20, 1912.

Re-measures of faint stars in Kapteyn Regions.
Kapteyn Series 113.

Scale m.

11-

Series 23.

mc 2445

Pole.

Pole

	sc 2	sc 2	Diff.	mc 2450	Mean	Diff.
	9.30	9.30				
23	9.3	9.3	4.07	8.80	9.05 20 25	4.29
	9.75	9.75				
25	9.8	9.7	4.12	9.40	9.58 17 18	4.29
	9.90	9.90				
26	9.9	9.9	4.43	9.70	9.80 10 10	4.63
only trace seen. 21	4	4		10.00	10.00 a a	4.69

Images rather larger & hazy.

mc 2447 52 K. copied

H. stars

	sc 2	sc 2	Curve Magn.	Magn.
	9.15	9.15		
13	9.1	9.2	4.29	13.44
	9.45	9.45		
14	9.4	9.5	4.37	13.82
	9.75	9.75		
15	9.7	9.8	4.49	14.24

See note for mc 2258. p. 91 for corr. for 'act.

Tuesday January 20, 1914.

Scale m

Re-measures of faint stars in Kapteyn Regions.
Mc 2449 12K. Series 23 cont.

	sc 2	sc 2	Curve	Copied Magn.	Corr. for alt. +.20 added to means in Kapteyn Book.
213	9.65	1.0			
	9.7	9.6	4.45	14.10	
14	9.75	1.0			
	9.7	9.8	4.49	<u>14.24</u>	
	9.90	1.00			
15	9.9	9.9	4.55	<u>14.45</u>	

Mc 2450

Pole.

	sc 2	sc 2	diff.
	8.80	0.00	
23	8.8	8.8	
	9.40	0.00	
25	9.4	9.4	
	9.70	0.00	
26	9.7	9.7	
	10.00	0.00	
27	10.0	10.0	

Tuesday January 20, 1914⁴

Scale M

Re-measures of ft. plates in Kapteyn Regions.

MC 2675 Pole

Series 35-

11:17

	sc 2	sc 2	MC 2686	Mean.	Diff.
20	7.6 ^{7.60 00}	7.6	7.50	7.55 05 05	5.18
23	8.3 ^{8.30 00}	8.3	8.50	8.40 10 10	4.94
25	8.8 ^{8.80 00}	8.8	9.15	8.98 18 17	4.89
26	9.2 ^{9.20 00}	9.2	9.40	9.30 10 10	5.03
27	9.6 ^{9.65 01}	9.7	9.80	9.72 07 08	4.97
28	9.8 ^{9.85 01}	9.9	n.s.	9.85 a .	5.26

See page 70

MC 2678

74K copied

corr. for alt. +0.17

	sc 2	sc 2	Curve	Magn.
12	7.7 ^{7.70 00}	7.7	4.95	12.65
13	8.2 ^{8.20 00}	8.2	4.94	13.14
14	8.3 ^{8.25 10}	8.2	4.94	13.29
15	8.6 ^{8.50 11}	8.4	4.95	13.45
16	8.7 ^{8.70 00}	8.7	4.95	13.65
17	9.3 ^{9.40 11}	9.5	5.04	14.44
			4.54	13.94
18	9.7 ^{9.75 10}	9.8	5.11	14.86
			4.61	14.36

Im. not very comp. with scale.

Tuesday January 20, 1914.

Scale m.

Re-measures of faint stars in K. regions.

mc 2680

Pole -

	sc.2	sc.2	mc2675	mc2686	mean	Diff.
20	8.1 ^{8.15}	8.2 ^{8.20}	7.60	7.50	7.75 40 15 25	4.98
23	8.4 ^{8.40}	8.4 ^{8.40}	8.30	8.50	8.40 00 10 10	4.94
25	8.8 ^{8.85}	8.9 ^{8.90}	8.80	9.15	8.98 08 13 22	4.94
26	9.4 ^{9.35}	9.3 ^{9.30}	9.20	9.40	9.32 03 12 08	5.01
27	9.8 ^{9.75}	9.7 ^{9.70}	9.65	9.80	9.73 02 08 07	4.96
28	n.s.		9.85	9.85	a .	5.26

mc 2685

12 K. copied

	sc.2	sc.2	Curve	Magn.	Corr. for alt. + 20 Added to means in Kapteyn's book
13	8.6 ^{8.70}	8.8 ^{8.80}	4.95	13.65	
14	9.5 ^{9.50}	9.5 ^{9.50}	5.06	14.56	
15	8.8 ^{8.85}	8.9 ^{8.90}	4.96	13.81	

first same
measured down
for 15 + 13

15 brighter than 14 but not on preceding plates.

Tuesday January 20, 1914⁴

Scale M. Remeasures of ft. stars in K. regions.
Mc 2686 Pole.

	sc. 1	sc. 2
hardly comparable	7.4	7.6
23	8.5	8.5
25	9.2	9.1
26	9.4	9.4
27	9.8	9.8
28	n.s.	

Imm. large & hazy.

11:55

Wednesday January 21, 1914.

Scalum.

9.35

Re-measures of ft. stars in Kapteyn Region.
Pole.

Series 50

	sc. 2	sc. 2	MC 2895	Mean.	Diff.
	9.35	1.0	MC 2889	28 07.0 02	0.6
23	9.3	9.4	9.20 9.30	9.32 03.02	4.02
	9.70	0.0		9.68 02 02 02	.9
25	9.7	9.7	9.65 9.70	9.70 02.00	4.17
	9.90	0.0		9.87 03 07 03	.6
26	9.9	9.9	9.80 9.90	9.90 00.00	4.43
27			n.s. 10.00	10.10 .a	4.59

MC 2886

99 K. ^{Capit}
Corr. for alt. +.06

	sc. 2	sc. 2	Curve	Magn.
13	9.8	9.8	4.35	14.15
	10.0	10.0	4.48	14.48
14	10.0	10.0	4.48	14.48
15	10.1	10.1	4.57	14.67

very ft. trace of

Wednesday, January 21, 1914⁴

Scale M

Re-measures of ft. stars cont.

MC 2889

Pole

Series 50

	sc 2	sc 2
23	9.20 00	9.2
25	9.65 00	9.6
26	9.80 00	9.8
27	n.s.	n.s.

MC 2891

12 K. copied

sc 2 sc 2 Curr Magn.

Corr. for alt. +.20

n. seen?

13	9.85 01	9.8	9.9	4.36	<u>14.21</u>
14		9	9		
15	10.20 00	10.2	10.2	4.64	<u>14.84</u>

Added to means in Hapleyn book

MC 2895

Pole

(skid to 25)

	sc 2	sc 2
23	9.39 30 00	9.3
25	9.70 00	9.7
26	9.90 00	9.9
very ft 27	10.10 00	10.1

(including ident. 40.00)

Wednesday January 21, 1914

Scale M. Re-measures of ft. stars in K Regions.

9.22

MC 2626

Series 32

Pole.

	rc.2	rc.2	MC 2637	Mean.	Diff.
20	8.8 ^{8.75 0.1}	8.7 ^{8.65}	8.75	8.75 ^{2 03 07 03}	4.24 ^{0.1}
23	9.5 ^{9.45 1.0}	9.4 ^{9.20}	9.30	9.38 ^{2 13 12 02}	4.02 ^{0.2}
25	9.8 ^{9.75 0.1}	9.7 ^{9.55}	9.75	9.75 ^{68 07 13 07}	4.12 ^{0.9}
26	10.1 ^{10.10 0.0}	10.1 ^{9.95}	10.05	10.08 ^{3 07 08 02}	4.25 ^{0.30}
27	±	±	n.s.		

MC 2628

13 K.

copied

Corr. for alt. +20
added in Napier's book to means.

rc.2 rc.2 Curve Magn.

12	9.5 ^{9.50 0.0}	9.5	4.12	13.62
13	9.6 ^{9.65 0.1}	9.7	4.16	13.81
14	.	.	.	.
15	9.9 ^{9.90 0.0}	9.9	4.23	14.13

only trace.

Wednesday January 21, 1914.

Scale M Re measures of ft plate in K Regions.
Mc 2631 Pole Series 32.

	pc.2	pc.2
20	8.7 ^{8.65 1.0}	8.6
23	9.2 ^{9.20 0.0}	9.2
25	9.6 ^{9.55 0.1}	9.5
26	10.6 ^{9.95 0.1}	9.9
27	n.s.	

Mc 2632 55K. Copied
Corr. for Alt. + 22 added in Kapteyn book

	pc.2	pc.2	Corr.	Magn.
11	8.9 ^{8.90 0.0}	8.9	4.00	12.90
12	9.0 ^{9.50 0.0}	9.5	4.13	13.63
Im. pos 13	9.8 ^{9.85 0.1}	9.9	4.21	14.06
" " 14	9.8 ^{9.85 0.1}	9.9	4.21	14.06
" " 15	9.8 ^{9.95 0.1}	10.1	4.25	14.20

Wednesday, January 21, 1914.

Scale m.

Remeasures of ft. stars in K Regions.

Mc 2634

Series 32.

103 K. ^{copied}
Corr. for alt. +.06

	sc. 2	sc. 2	Curve	Magn.
12	9.9 ^{9.90 0.0}	9.9	4.23	<u>14.13</u>
13	10.1 ^{10.10 0.0}	10.1	4.30	<u>14.40</u>
14	n.s.			

only trace.

15 f.

Mc 2635

80 K. ^{copied}

Corr. for alt. +.17

	sc. 2	sc. 2	Curve	Magn.
12	8.9 ^{8.85 1.0}	8.8	4.00	12.85
13	9.3 ^{9.35 1.6}	9.4	4.10	13.45
14	9.4 ^{9.40 0.6}	9.4	4.11	13.51
15	9.6 ^{9.65 0.1}	9.7	4.16	13.81

Mc 2637

Pole.

	sc. 2	sc. 2
20	8.7 ^{8.75 1.0}	8.8
23	9.3 ^{9.30 0.0}	9.3
25	9.7 ^{9.75 1.0}	9.8
26	10.0 ^{10.05 0.1}	10.1
27	n.s.	

Wednesday, January 21, 1914 A.M.

Scale M Remeasures of ft stars in K regions.

11:05-

MC 2657

Pole

Series 34

	sc 2	sc 2	mc 2662	mc 2668	mean	Diff
20	8.5	8.4	8.60	8.75	8.57 $\frac{1}{2}$ 02.15	4.13
23	9.3	9.2	9.20	9.05	9.17 08 03 12	4.17
25	9.7	9.5	9.70	9.60	9.63 03 07 03	4.24
26	9.8	9.8	10.00	9.80	9.87 07 13 07	4.46
27	9.		10.00	10.00	. . a	4.69
2						

MC 2658

102 K

apud

con. for alt. +06

sc 2 sc 2 Curve Magn.

Low. large & heavy	13	9.5	9.5	4.27	13.77
	14	10.1	10.1	4.70	<u>14.80</u>
	15	n.s.			

Wednesday January 21, 1914.

Scale m.

Remeasures 7 ft. stars cont.

Mc 2659

13K.

Series 34

copied

Corr. for alt. +.21
added in Kapteyn book

	sc.2	sc.2	Curve	Magn.
12	9.4 ^{9.40 0.0}	9.4	4.22	13.62
13	9.7 ^{9.70 0.0}	9.7	4.37	<u>14.07</u>
14	10.0 ^{9.95 0.1}	9.9	4.57	<u>14.52</u>
15	10.0 ^{10.00 0.0}	10.0	4.60	<u>14.60</u>

Mc 2660

55K.

	sc.2	sc.2
11	8.9 ^{8.8}	8.8
12	9.4	9.4
13	n.s.	
14	n.s.	
15	n.s.	

Reject these measures. - Seq. changed by
 W.S.L. January 21, 1914.
 See P. 82

Wednesday, January 21, 1914

Scale m

Remeasures of ft stars cont.

mc 2662 Pole -

Series 34

Copied page 77

	sc 2	sc 2
20	8.6 ^{8.60 0.0}	8.6
23	9.2 ^{9.20 0.0}	9.2
25	9.7 ^{9.70 0.0}	9.7
26	10.0 ^{10.00 0.0}	10.0
27	n.s.	

mc 2664

Copied

80 K

corr. for alt. +.17

	sc 2	sc 2	Curve	Magn.
12	8.9 ^{8.85 1.0}	8.8	4.12	12.97
13	8.9 ^{8.80 1.1}	8.7	4.11	12.91
14	9.6 ^{9.55 0.1}	9.5	4.30	13.85
15	9.7 ^{9.75 1.0}	9.8	4.40	<u>14.15</u>

Wednesday January 21, 1914. AM.

Scale m.

Remeasures of ft. stars cont.

mc 2667

32 K.

Series 34.

sc.2 sc.2

11 9.3 9.3

12 9.1 9.1

13 9.3 9.3

14 .

15 .

Note on cover says
"Prob defects marked
for 14 + 15 - case
see no image"

Reject this plate. measured on next page.
New plates 12, 14 + 15 selected by H.S.L.

Jan. 21, 1914.

mc 2668

copied page 77

sc.2 sc.2

20 8.7^{8.75 1.0} 8.8

23 9.0^{9.05 0.1} 9.1

25 9.6^{9.60 0.0} 9.6

26 9.8^{9.80 0.0} 9.8

27 10.0^{10.00 0.0} 10.0

Pole.

11:40

Wednesday January 21, 1914. P.M.

Scale m.

2:35

Remeasures of ft. stars in K regions.

mc 2662

Pole. on this + following page. (3 pole plates)

Series 34

	sc 2	sc 2	mc 2667	mc 2668	mean	Diff.
20	8.6	8.6	8.6	8.6	8.63	0.3 13 17 4.10
23	9.2	9.2	9.2	9.2	9.18	0.2 02 03 4.16
25	9.8	9.7	9.6	9.5	9.63	12 03 08 4.24
26	10.1	10.1	9.85	10.00	9.98	12 13 12 4.35
27						4.69

mc 2667

32 K.

Copied

	sc 2	sc 2	Curve	Magn.
11	9.5	9.3	4.23	13.63
12	9.3	9.2	4.18	13.43
13	9.4	9.3	4.23	13.63
14	9.7	9.7	4.35	14.05
15	9.9	9.9	4.50	14.40

Core. for set. + 23

added in Kapteyn book

mc 2668

Copied above

Pole.

	sc 2	sc 2
20	8.7	8.9
23	9.2	9.1
25	9.5	9.6
26	9.7	9.9
27	10.0	10.0

only

Wednesday January 21, 1914.

Scale m-

2:58

Remeasures of ft. stars in K Regions

Mc 2660

Pole

55 K. copied

Series 34 cont.

	scz	scz	Curv	Magn.	
	8.75 ^{0.1}	8.7			
11	8.8	8.7	4.10	12.85	
	8.90 ^{0.0}	8.9			
12	8.9	8.9	4.11	13.01	
	9.30 ^{0.0}	9.3			
13	9.3	9.3	4.19	13.49	
	9.60 ^{0.0}	9.6			
14	9.6	9.6	4.30	13.90	
	9.70 ^{0.0}	9.7			
15	9.7	9.7	4.35	<u>14.05</u>	

Corr. for alt. +22-
added in Kaptis' table

Mc 26587

copied page 81

Pole.

	scz	scz
20	8.5 ^{0.5}	8.5
23	9.2 ^{0.0}	9.2
	9.60 ^{0.0}	9.6
25	9.6	9.6
	9.85 ^{0.1}	9.9
26	9.8	9.9

seen but ft.

27

1

Thursday January 22, 1914.

Scale m.

10:22

Remeasures of ft. plate in K Regions.

MC 2614

Pole

Series 31

	sc.2	sc.2	sc.2	mean	Diff
	9.10 0.0	9.10 0.0	8.90	9.00	10.10
very close to defect } 23	9.1	9.1	8.90	9.00	10.10
	9.55 0.1	9.55 0.1	9.50	9.52	03.02
25	9.6	9.5	9.50	9.52	03.02
	9.70 0.0	9.70 0.0	9.65	9.68	02.03
26	9.7	9.7	9.65	9.68	02.03
	10.15 0.1	10.15 0.1	10.1	10.02	13.12
27	10.2	10.1	9.90	10.02	13.12

MC 2615

99K - copied
cor. for alt. +06

sc.2 sc.2 Curve Magn.

	9.60 0.0	9.60 0.0	4.52	14.12
12	9.6	9.6	4.52	14.12
	9.80 0.0	9.80 0.0	4.61	14.41
In large + heavy } 13	9.8	9.8	4.61	14.41
14	±	n.s.		
15	±			

Thursday January 22, 1914.

Scale m-

Remeasures of ft. stars in K Regions

MC 2618

Series 31.

28 K. copied

Corr. for alt. +.23
added in Kapteyn book

		sc. r	sc. r	Cum.	Magn.
14	23	8.8	9.1	4.29	13.24
15	25	9.4	9.4	4.45	13.85
16	26	9.8	9.9	4.62	<u>14.47</u>

MC 2619
copied page 83

Pole.

		sc. r	sc. r
23	8.9	8.9	8.9
25	9.6	9.4	9.4
26	9.7	9.6	9.6
27	9.9	9.9	9.9

Thursday January 22, 1914.

Scale M. Remeasures of ft. plate in R Regions.
mc 2645 Pole Series 33

	sc. 2	sc. 2	mc 2645	mc 2645	Mean	Diff.
20	8.8	8.8	9.05	8.90	8.92 12 13 02	3.81
23	9.6	9.6	9.65	9.45	9.57 03 08 12	3.77
25	9.9	9.9	9.90	9.70	9.83 07 07 13	4.04
submitted to 26	±	±	10.10	10.00	10.05 ± 05 05	4.28
27					n.s.	

	mc 2647	74 K	Copied
		con. for alt. +.17	
sc. 2	sc. 2	Curve	Magn.
12	9.4	9.3	3.85 13.20
13	9.8	9.8	4.01 13.81
14	9.9	9.9	4.10 14.05
15	10.0	10.0	4.12 14.12

Thursday January 22, 1914.

Scale m. Measures of ft. stars in K Regions.
mc 2650

Series 33.

Pole

copied page 85

	rc 2	rc 2
20	9.2 ^{9.05 2.1}	8.9 ^{0.1}
23	9.6 ^{9.65 0.1}	9.7
25	9.9 ^{9.90 0.0}	9.8
26	10.1 ^{10.10 0.0}	10.1
27		

mc 265.3

28 K. copied

Corr. for alt. +.22

added in Kapteyn book

rc 2 rc 2 Curve Magn.

	rc 2	rc 2	Curve	Magn.
14	9.5 ^{9.45 1.0}	9.4	3.87	13.32
15	9.9 ^{9.90 0.0}	9.9	4.06	<u>13.96</u>
16	n.s.	n.s.		

mc 2656
copied page 85

Pole

rc 2 rc 2

	rc 2	rc 2
20	8.9 ^{8.90 0.0}	8.9
23	9.5 ^{9.45 1.0}	9.4
25	9.7 ^{9.70 0.0}	9.7
26	10.0 ^{10.00 0.0}	10.0
27	n.s.	

Thursday January 22, 1914.

Scale m Measures of ft. stars in K Regions

11:05

mc 2717

Pole.

Series 37

	sc.2	sc.2	mc 2722	mc 2728	mean	Diff
(25) 20	8.8 ^{8.10 00}	8.1	7.95	8.15	8.07	03 12 08 4.66
23	8.6 ^{8.50 01}	8.4	8.50	8.60	8.53	03 03 07 4.81
25	8.8 ^{8.75 01}	8.7	8.80	9.00	8.85	10 05 15 5.02
26	9.5 ^{9.50 00}	9.5	9.35	9.55	9.47	03 12 08 4.86
27	9.8 ^{9.75 01}	9.7	9.85	9.80	9.80	05 05 00 4.89
28	9.9 ^{9.90 00}	9.9	n.s.	9.90	a	5.21

mc 2121

32 K.

copied

Cor. for alt. +.22

added in Kapteyn book

	sc.2	sc.2	Curve	Magn.
11	9.2 ^{9.00 22}	8.8	4.87	13.87
12	9.2 ^{9.15 01}	9.1	4.90	14.05
13	9.3 ^{9.30 00}	9.3	4.92	14.22
14	9.4 ^{9.45 01}	9.5	4.95	14.40
15	9.7 ^{9.75 01}	9.8	5.02	<u>14.77</u>

Thursday January 22, 1914.

Scale m. Re measures of ft stars in R Regions.
Series 37.

mc 2722 Pole.
 Copied page 87
 sc.2 sc.2
 20 7.8 7.95 8.1
 23 8.5 8.50 8.5
 25 8.8 8.80 8.8
 26 9.3 9.35 9.4
 27 9.8 9.85 9.9
 28 n.s. n.s.

mc 2726. 58K copied Series 37 cont.
 sc.2 sc.2 Curr Magn. Corr. for alt. +.22
 added in Napier's book
 11 8.6 8.60 0.6 4.81 13.41
 12 8.6 8.60 0.6 4.81 13.41
 13 9.3 9.25 1.0 4.91 14.16
 14 9.6 9.60 0.0 4.98 14.58
 15 9.7 9.70 0.0 5.00 14.70
 defect - see note on plate cover.

Thursday January 22, 1914.

Scale m. Re measures of ft. stars in K Regions.
Series 37.

mc 2721

82 K.

copied

sc.2 sc.2 Curve Magn.

	9.25 ^{0.1}			
13	9.2	9.3	4.91	14.16
	9.55 ^{0.1}			
14	9.6	9.5	4.98	14.53
	9.80 ^{0.0}			
15	9.8	9.8	5.03	14.83

very faint. 16 10.0 10.0 Reject H.S.L. Jan. 23, 1914, defect.

mc 2728

copied p. 87

Pole.

sc.2 sc.2

	8.15 ^{1.0}			
20	8.1	8.2		
	8.60 ^{0.0}			
23	8.6	8.6		
	9.00 ^{2.2}			
25	8.8	9.2		
	9.55 ^{0.1}			
26	9.6	9.5		
	9.80 ^{0.0}			
27	9.8	9.8		

11:35

Thursday January 22, 1914.

Scale m. Remeasures of ft. stars in K Regions.

11:38

mc 2255

Pole

Series 10

	sc 2	sc 2	mc 2260	mean.	Diff.
23	9.5 ^{9.45 10}	9.4	9.50	9.48 03 02	3.86
25	9.8 ^{9.80 00}	9.8	9.80	9.80 00 00	4.07
26	10.0 ^{10.00 00}	10.0	10.10	10.05 05 05	4.28
27					

mc 225.7

76 K. copied

	sc 2	sc 2	Curv	Magn.
14	9.7 ^{9.75 10}	9.8	4.04	<u>13.79</u>
15	9.9 ^{9.90 00}	9.9	4.13	<u>14.03</u>
16				
17				

16 + 17 looked for but n.s.

Thursday January 22, 1914.

Scale m. Remeasures of ft. plate in K Regions.

Mc 2258

52 K.

Series 10.

	sc. 2	sc. 2	Curve	Magn.	Copied
13	9.4 ^{9.40 00}	9.4	3.82	13.22	
14	9.6 ^{9.65 01}	9.7	3.97	13.62	
15	9.9 ^{9.90 00}	9.9	4.13	<u>14.03</u>	

Altitude correction applied in Kapteyn book to mean of mc 2258, 2434 and 2447
Corrections are respectively +.21, +.21 and +.22. Mean corr. +.21 was therefore used.

Mc 2260

Pole.

Copied page 90

sc. 2 sc. 2

23 9.5^{9.50 00} 9.5

25 9.8^{9.80 00} 9.8

(true) ft 26 10.1^{10.10 00} 10.1

27

11:49

92

Thursday January 22, 1914.

Scale m

Re measures of ft. stars in K Regions

12 -

Mc 2430

Pole

Series 22.

	pc.2	pc.2	mc2435	mean	Diff.
23	8.8	8.8	8.50	8.65 15 15	4.69
25	9.3	9.2	9.25	9.25 00 00	4.62
26	9.5	9.4	9.70	9.57 12 13	4.76
27	10.0	9.9	9.95	9.95 00 00	4.74

Mc 2434

52 K.

Copied

	pc.2	pc.2	Curv	Magn.
13	8.6	8.6	4.69	13.29
14	8.7	8.7	4.69	13.39
15	9.2	9.2	4.72	13.92
16	9.7	9.6	4.74	14.39
17	9.9	9.8	4.77	14.62
18	9.9	9.9	4.77	14.67

See note for mc 2258, p. 91 for corr. for alt.

Mc 2435

Pole.

Copied above

pc.2 pc.2

{Dim. large but not bright}	23	8.5	8.5
	25	9.2	9.3
	26	9.7	9.7
	27	10.0	9.9

12:11

Friday January 23, 1914.

Scale M

Remeasures of ft. stars in R Regions

9:50

MC 2602

Pole

Series 30.

	rc.2	rc.2	mc2602	mean.	Diff.
23	8.70 ⁰⁰	8.7	8.70	8.70 00 00	4.64
25	9.45 ¹⁰	9.4	9.25	9.35 10 10	4.52
26	9.60 ⁰⁰	9.6	9.65	9.62 02 03	4.71
27	9.90 ⁰⁰	9.9	9.80	9.85 05 05	4.84

MC 2604

24 K.

Copied

Corr. for set. + .22

	rc.2	rc.2	Curve	Magn.
13	9.20 ⁰⁰	9.2	4.60	13.80
14	9.35 ⁰¹	9.3	4.64	13.99
15	9.60 ⁰⁰	9.6	4.70	14.30
16	9.90 ⁰⁰	9.9	4.80	14.70

added to means in Kapteyn book

MC 2607

Copied above

Pole

	rc.2	rc.2
23	8.70 ⁰⁰	8.7
25	9.25 ¹⁰	9.2
26	9.65 ⁰¹	9.7
27	9.80 ⁰⁰	9.8

10.15

Friday January 23, 1914.

Scale M- Remeasures of ft. plate in R Regions.

10:30

MC 26986

Series 36

Pole

sc 2 sc 2 MC 2701

			Mean	Diff.
23	^{8.40 00} 8.4 8.4	8.40	8.40 00 00	4.94
25	^{8.80 00} 8.8 8.8	8.65	8.72 08 07	5.15
26	^{9.40 00} 9.4 9.4	9.30	9.35 05 05	4.98
27	^{9.70 00} 9.7 9.7	9.85	9.78 08 07	4.91
28	^{10.00 00} 10.0 10.0	.	10.00 a .	5.11

Dim. very large & hazy

very ft.!

MC 2697

24 K. Copied

	sc 2	sc 2	Curve	Magn.
13	^{9.05 21} 9.2 8.9		5.01	14.06
14	^{9.15 10} 9.1 9.2		5.01	14.16
15	^{9.25 10} 9.3 9.2		5.01	14.26
16	^{9.70 11} 9.8 9.6		5.02	<u>14.72</u>

Corr. for alt. +.22

added to means in Kapteyn book.

MC 2701
Copied page above

Pole

23	^{9.40 00} 8.4 8.4
25	^{8.65 01} 8.6 8.7
26	^{9.30 00} 9.3 9.3
27	^{9.85 01} 9.8 9.9

Dim large

Friday January 23, 1914.

Scale m. Remeasures of ft plate in K Regions.
Mc 2744

Series 39.

	pc. 2	pc. 2	Diff.	Pole
23	9.5	9.6	3.79	
24				
25	100	100	3.87	
Rebut ft 26	f.			
27				

	pc. 2	pc. 2	Curve	Magn.
11	9.7		3.83	13.53
12	100	100	3.88	13.88
13	9.8	9.9	3.86	13.71
14	n.s.			
15	n.s.			

58 K. Copied
Corr. for alt. +22
added in Kapteyn book

Mc 2750
pc. 2 pc. 2

Pole

23
25 n.s.
26
27

Reject this plate, qual. B.

Wednesday
Tuesday January 28, 1914

leopied

Scale m.

Series 57.

mc 2962

129 K.

alt. -20

B.C.

diff

0.74

-0.01

-0.19

-0.12

-0.63

-0.45

+4.

4

-11

15

1

-15

59

5

-121

	sc.1	sc.2	sc.2	Curr	Magn.
1	2.7 ^{2.9}				
2	4.3 ^{4.5}			3.78	8.28
3	4.6 ^{4.8}			3.70	8.50
4	6.3 ^{6.5}			3.41	9.91
5		1.5		3.31	10.81
6		7.9		3.30	11.20
7		8.4		3.29	11.69
8		8.7		3.29	11.99
9	8.8 ^{8.75 0.1}	8.1		3.29	12.04
10	9.1 ^{9.15 1.0}	9.2		3.31	12.46
11	9.9 ^{9.90 0.0}	9.9		3.65	13.55
12	10.1 ^{10.10 0.0}	10.1	8.0	3.74	13.84
13	10.1 ^{10.10 0.0}	10.1		3.80	13.90
14	n.s.				
15	n.s.				

sc.2	pc.2	Curr	Magn.
8.4	8.3 ^{8.35 0.1}	-0.21	8.14
10.1	9.9 ^{10.00 1.1}	-0.56	9.44
n.s.	1		7

Bc ft.

Wednesday
~~Tuesday~~ January 28, 1914.

Copied.

Scale m.

Series 57

mc 2963

130 K. alt - 18

P.C.

	sc.1	sc.2	sc.3	curve	magn.
1	4.1 ^{4.3}				
2	4.1 ^{4.9}			3.68	8.58
3	4.1 ^{4.9}			3.68	8.58
4	5.8 ^{6.0}			3.47	9.47
5	6.1 ^{6.3}			3.42	9.72
6	6.6 ^{6.8}			3.37	10.17
7	7.6			3.31	10.91
8	7.8			3.30	11.19
9	7.6			3.31	10.91
10	8.3 ^{8.30}	8.3 ^{8.3}		3.29	11.59
11	9.4 ^{9.35}	9.3 ^{9.3}		3.34	12.69
12	9.4 ^{9.40}	9.4 ^{9.4}		3.35	12.75
13	9.6 ^{9.65}	9.7 ^{9.7}		3.45	13.10
14	9.6 ^{9.65}	9.7 ^{9.7}		3.45	13.10
15	10.0 ^{10.00}	10.0 ^{10.0}		3.74	13.74

sc.2 pc.2 Curve magn.
 9.85^{1.0} 9.8 -0.53 9.32
 7. 7.
 n.s.

Imm. elongated.

Wednesday January 28, 1914.

Scale m.

Leprie

Series 57.

mc 2964

R Camel. alt +.06

P.C.

	sc.1	sc.2	Curve	Magn.
α	1.9 ^{2.1}			
β				
γ				
δ	3.4 ^{3.6}			
ϵ	4.8 ^{5.0}			
ζ	5.3 ^{5.5}			
η	5.7 ^{5.9}			
θ	6.4 ^{6.6}	6.6		
ι	7.2 ^{7.25}	7.01		
κ	7.0	7.3		
λ	8.2	8.2		
μ	8.4 ^{8.45}	8.5		
ν	8.6 ^{8.6}	8.6		
ξ	9.2 ^{9.05}	8.9		
\o	9.4 ^{9.35}	9.3		
π	9.6 ^{9.65}	9.7		
ρ	9.9 ^{9.9}	9.9		
σ	n.s.			

sc.2	sc.2	Curve	Magn.
7.6 ^{7.50}	1.4	-0.02	7.48
6.6 ^{6.50}	6.4	+0.35	6.85
8.2 ^{8.20}	8.2	-0.18	8.02
8.6 ^{8.60}	8.6	-0.27	8.33
9.9 ^{9.95}	10.0	-0.55	9.40
n.s.	n.s.		
n.s.			

Copied Wednesday January 28, 1914.

Scale m-

Series 57.

mc 2965

C 8 = 15 + 15

alt. +.17

P.C.

	pc.1	pc.2	sc.2	Curve magn.	pc.2	pc.2	Curve magn.
too far from center.	1	1.8			6.4	6.4	0.39 6.79
" " "	2				8.1	8.1	-0.15 7.95
too hazy for good	3				8.4	8.4	-0.21 8.19
measuring	4				7.6	7.6	-0.05 7.55
too far from c.	5				8.3	8.3	-0.19 8.11
" " "	6	2.8			8.6	8.6	-0.23 8.27
edge.	7				9.5	9.5	-0.45 9.05
" " "	8	4.1		3.69 8.59	9.8	9.8	-0.53 9.32
" " "	9	4.8		3.66 8.66	9.8	9.8	-0.54 9.36
	10	4.9		3.69 8.59	4.4		
	11	5.5	5.6	3.52 9.12	n.s.		
	12	4.8	5.2	3.63 8.73	n.s.		
	13	4.6	5.1	3.68 8.63	10.0		
	14	5.5	6.1	3.49 9.39			
	15	5.8		3.47 9.47			
	16	6.5		3.38 10.08			
	17	5.9		3.49 9.39			
	18	6.6	6.9	3.46 10.41			
	19	6.9	7.0	3.46 10.41			
	20	6.9	7.1	3.45 10.45			
	21	7.6		3.31 10.91			
	22	8.4		3.29 11.69			
	23	8.4		3.29 11.69			
	24	8.5	8.6	3.29 11.84			
	25	8.8	8.9	3.29 12.04			

Wednesday January 28, 1914

Scale m.

Series 51

Mc 2965

CR = 15 + 15 out.

	pc	pc	Curv	Magn:
26	9.3 ^{9.35}	9.4 ^{9.40}	3.35	12.70 X
27	9.6 ^{9.60}	9.6 ^{9.60}	3.42	13.02 X
28	9.8 ^{9.75}	9.7 ^{9.70}	3.54	<u>13.29</u> X
29	9.			
30				

See also Bk. 10:138.

Wednesday January 28, 1914.

Scale m

Series 57.

mc 2966 Pole.

	pc 1	pc 2	pc 3
5			
6			
8			
9			
10	4.8 ^{5.0}		
11	5.4 ^{5.6}		
12	5.7 ^{5.9}		
13	6.2 ^{6.4 6.5 6.1}	6.6	
14	6.7 ^{6.9 7.0 7.1}	7.1	
15		7.4	
16	7.6 ^{7.5 8.1}	7.7	
17	8.3 ^{8.35 8.0}	8.4	
18	8.7 ^{8.7 8.0}	8.7	
19	defective 9.4		
20	9.4 ^{9.4 9.0}	9.4	
23	9.7 ^{9.7 9.0}	9.7	
25	ns		

PC. pc 2
^{5.6 5.6}
 5.6 5.6
^{7.15 7.1}
 7.2 7.1
^{8.4 8.4}
 8.4 8.4
^{8.8 8.8}
 8.8 8.8
^{9.7 9.6}
 9.8 9.6
 n.s.
 n.s.

See page 96

Wednesday January 28, 1944

Scale m.

Series 57.

copied

mc 2967

59 K.

alt. +.22

P.C.

	sc.1	sc.2	sc.2	Curve	Magn.	sc.2	sc.2	Curve	Magn.
1	l.f.					1.1	-0.08		7.62
Int. t. from	2	5.4				9.6	-0.48		9.12
l.f.	3					9.8	-0.52		9.28
4	5.3	5.5 5.40 1.1				9.8	-0.52		9.28
		5.3		3.57	8.97				9.28
5	4.7	4.9 5.10 2.2				10.0	-0.57		9.43
		5.3		3.63	8.73				
6	5.8	6.0 6.10 1.1							
		6.2		3.45	9.55				
7	6.1	6.3							
		6.6 6.50 1		3.42	9.72				
8	6.4	6.1							
		6.9 6.90 0.0		3.39	10.04				
9	6.7	6.9							
				3.36	10.26				
10		7.8							
				3.30	11.10				
11		7.8							
		8.25 1.0		3.30	11.10				
12		8.3							
		8.2		3.29	11.54				
13		8.5 8.50 0.0							
		8.5		3.29	11.79				
14		8.8 8.80 0.0							
		8.8		3.29	12.09				
15		9.4 9.40 0.0							
		9.4		3.35	12.75				
16		9.7 9.75 1.0							
		9.8		3.52	14.27				

Inv. not comparable with scale. found this plate
 difficult to measure.

Wednesday January 28, 1914.

leopard.

Scale m.

Series 59.

mc 2968

83 K.

alt. +17

J.C.

pc.1 pc.2 pc.3

pc.2
9.6° 9.6°Curve Magn.
-0.48 9.12haze around image
diff to measure

	pc.1	pc.2	pc.3	Curve Magn.	
1					
2	4.7	4.9		3.68	8.58
		6.6		3.9	9.99
3	6.4			3.42	10.82
4	6.7	6.9205 ± 2		3.34	10.39
		7.2			
5	6.9	7.1	7.20 ± 1	3.33	10.53
		7.3			
6		7.7		3.30	11.00
7		7.9		3.30	11.20
8		8.8		3.29	12.09
9	9.1	9.15 ± 0	9.2	3.30	12.45
		9.55 ± 0	9.6		
10	9.5			3.40	12.95
11	9.7	9.65 ± 0	9.6	3.45	13.10
12	9.7	9.70 ± 0	9.7	3.50	13.20
13	9.9	9.90 ± 0	9.9	3.65	13.55
14	n.s.		n.s.		
15	n.s.				

Wednesday January 28, 1914.
Leopold.

Scale m.

Series 57.

mc 2969

131 K.

alt. - 18

QC.

pc.1 pc.2 pc.3

pc.2 - Sc.2

Curve Magn.

9.35 1.0

-0.43

pc very large!

Imm. hazy

			Curve Magn.	
1	.			
2	5.1 ^{5.3}		3.59	8.89
3	5.6 ^{5.8}		3.51	9.31
4	5.9 ^{6.1 6.15 1.0}		3.44	9.59
5	6.6 ^{6.8 6.9 5.2 1}		3.36	10.31
6	7.1		3.32	10.72
7	8.2		3.29	11.49
8	8.2		3.29	11.49
9	8.4		3.29	11.69
10	8.8		3.29	12.09
11	9.2 ^{9.30 1.1}		3.33	12.63
12	9.7 ^{9.70 0.0}		3.50	13.20
13	9.8 ^{9.85 0.1}		3.60	13.45
14	9.9 ^{9.90 0.0}		3.65	13.55
15	n.s., n.s.			

Imm. elongated.

Wednesday January 28, 1914.

Looped.

Scale m

Series 57

mc 2970.

15 K.

alt. +.20

P.C.

Imm. hazy.

	sc.1	sc.2	sc.2	Curve	Magn.
1	4.8	5.0 5.05 0.1	5.1	3.65	8.70
2	t.p.				
3	4.7	5.05 5.1 2	5.2	3.65	8.70
4	5.8	6.0 6.1 1.1	6.2	3.45	9.55
5	6.4	6.6 6.6 0.0	6.6	3.39	9.99
6	6.5	6.7 6.75 1.0	6.8	3.38	10.13
7		7.4		3.32	10.72
8		7.9		3.30	11.20
9		8.4		3.29	11.69
10		8.7		3.29	12.13
11		8.9 8.85 1.6	8.8	3.29	12.44
12		9.3 9.25 1.0	9.2	3.32	12.57
13		9.4 9.40 0.0	9.4	3.35	12.75
14		9.6 9.65 0.1	9.7	3.43	13.08
15		9.9 9.90 0.0	9.9	3.65	13.55

sc.2	sc.2	Curve	Magn.
9.4	9.40 0.0	-0.43	8.97
10.0	9.95 0.0	-0.55	9.40
9.8	9.80 0.0	-0.52	9.78
9.5?	def.		

Wednesday January 28, 1914.

Scale m

Series 57

leaf 1st

MC 2971

35 K.

Alt. +23

P.C.

pc.1 pc.2

larger than

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Curve Magn.

3.73

3.53

3.50

3.40

3.39

3.32

3.29

3.29

3.29

3.35

3.35

3.53

3.50

8.43

9.13

9.30

9.90

10.04

10.72

11.49

11.79

11.99

12.09

12.75

12.75

13.28

13.20

pc.2

Curve Magn.

7.10 7.1

9.4 9.4

10.0 10.0

n.s.

0.10

-0.43

-0.57

n.s.

7.20

8.97

9.43

n.s.

P.C. from

Wednesday January 28, 1914 -

Scale m -

Series 57

mc 2912

Free

P.

pc.1 pc.2 pc.2

pc.2

5
6
8
9
10 ^{hmm} 5.3 5.5
11 6.3 6.5
12 6.4 6.6 6.5 6.1
13 6.8 7.0 7.0 5.0 1
14 7.3
15 7.7
16 8.0
17 8.4 8.40 8.4
18 8.6 8.60 8.6
19 8.8 8.95 9.1
20 9.3 9.35 9.4
23 9.7 9.70 9.7
25 10.0 10.00 10.0

5.75 5.8
6.8 6.95 7.1
8.4 8.40 8.4
8.7 8.70 8.7
9.1 9.50 9.3
10.0 10.00 10.0

See page 96

12:20

T'

Thursday January 29, 1914.

Scale m. meas. of c. s. for Circumpolar Variables.
 m 20 29 cont.

Polar Seq.	pc.1	pc.2	pc.2	Diff.	no P.c.
5	2.8				
6	3.1	3.9400	4.1	3.69	
7	Defective				
8	6.9	7.1715	7.2	3.11	
9				1.68	
10	7.4	7.4000	7.4	1.62	
11	7.9	7.8500	7.8	1.70	
12	8.3	8.3000	8.3	1.56	
13	8.1	8.7000	8.1	1.60	
14	8.8	8.8000	8.8	1.85	
15	9.2	9.2500	9.3	1.83	
16	9.2	9.2500	9.3	2.15	
17	9.6	9.6000	9.6	2.03	
18	9.9	9.9000	9.9	2.16	
19	J.		J.		
20					

T'
Thursday January 29, 1914.

Scale m. Measures of e.s. for Circumpolar Variables,
m2 2029 cont.

(Lower Images, film up, no. down)

	pc.1	pc.2	pc.2	Curve	Magn.	Re. Image P. 109	Mean	
too far from center								
h								
e	2.1 ^{2.9}			3.62	6.52	6.52	6.52	00 00
d	3.1 ^{3.3}	B.		3.42	6.72	6.85	6.78	06 07
e	4.4 ^{4.6 4.85 2.3}	5.1		2.68	7.53	7.67	7.59	07 07
f	5.6 ^{5.8 5.80 0.0}	5.8		2.22	8.02	8.11	8.06	04 05
g	5.6 ^{6.0 5.95 0.1}	5.9		2.16	8.11	8.16	8.14	03 02
g'	5.1 ^{5.3 5.45 1.2}	5.6		2.40	7.85	7.91	7.88	02 03
h	5.6 ^{5.8 5.75 0.1}	5.9		2.23	7.98	7.97	7.98	00 01
h'	6.6 ^{6.8 6.80 0.0}	6.8		1.82	8.62	8.62	8.62	00 00
h	6.6 ^{7.40 0.0}	7.4		1.63	9.03	8.98	9.00	03 02
h'	6.6 ^{6.8 6.80 0.0}	6.8		1.83	8.63	8.67	8.65	02 02
h'	8.2 ^{8.05 2.1}	7.9		1.59	9.64	9.49	9.57	07 08
h	7.9 ^{7.90 0.0}	7.9		1.59	9.49	9.64	9.57	03 07
m	8.3 ^{8.30 0.0}	8.3		1.60	9.90	10.01	9.96	06 05
n	8.9 ^{8.85 1.0}	8.8		1.72	10.57	10.51	10.54	03 03
o	8.1 ^{8.75 1.0}	8.8		1.69	10.44	10.45	10.44	00 01
o'	9.3 ^{9.30 0.0}	9.3		1.90	11.20	11.20	11.20	00 00
h	9.9 ^{9.85 1.0}	9.8		2.15	12.10	11.71	11.86	14 15
g	9.9 ^{9.85 1.0}	9.8		2.15	12.00	12.00	12.00	00 00
g'	9.4 ^{9.35 0.1}	9.3		1.93	11.28	11.35	11.32	04 03
r	10.0			2.21	12.21	12.21	12.21	00 00
Var. 4.1				3.01	7.11	7.16	7.14	02 02

Ch. F.C.

11:55

112

Friday January 30, 1914.

Scale # 2

Series 69.

10:35

mc 3127

Pole

(mc 3127 - mc 3132)

O.C.

sc.1 sc.2

sc.2 sc.2 mc 3132 mean.

Diff.

		mc 3132 mean.	Diff				
5				5.8	^{5.80} 5.8	5.85	5.82 02 03 +0.67
6				6.6	^{6.60} 6.6	6.60	6.60 00 00 +0.51
7				8.4	^{8.35} 8.3	8.30	8.32 03 02 -0.09
9				8.8	^{8.75} 8.7	8.80	8.78 03 02 +0.05
10	4.8	4.7	4.75 0 1	4.27	9.3	^{9.35} 9.4	9.35 00 00 -0.33
11	5.1	4.9	5.00 1 1	4.55	9.7	^{9.70} 9.7	9.75 05 05 -0.20
12	5.4	5.4	5.40 0 0	4.46	±	±	7
13	5.7	6.1	5.90 2 2	4.40			$\frac{02}{4}$ $\frac{03}{4}$ -0.00 +0.01
14	6.5 ^{6.55} 6.6	6.4	6.48 07 08	4.17			$\frac{05}{2}$ $\frac{05}{2}$ -0.02 +0.02
15	6.7 ^{6.80} 6.9	6.7	6.75 05 05	4.33			$\frac{07}{6}$ $\frac{08}{6}$ -0.01 +0.01
16	7.2 ^{7.25} 7.3	7.35	7.30 05 05	4.10			
17	7.6 ^{7.60} 7.6	7.60	7.60 00 00	4.03			
18	8.3 ^{8.25} 8.2	8.20	8.22 03 02	3.84			
19	8.4 ^{8.45} 8.5	8.60	8.52 07 08	3.90			
20	8.7 ^{8.75} 8.8	8.80	8.78 03 02	3.95			
23	9.4 ^{9.40} 9.4	9.40	9.40 00 00	3.94			
25	10.0 ^{10.00} 10.0	9.95	9.98 02 03	3.89			
26		n.s.					
27		10-14	$\frac{03}{5}$ $\frac{08}{5}$ -0.01 -0.02 $\frac{01}{6}$ $\frac{08}{6}$ -0.01 +0.01 $\frac{02}{2}$ $\frac{03}{2}$ +0.01 -0.02 $\frac{08}{13}$ $\frac{03}{13}$ -0.01 +0.00				

copied.

Friday January 30, 1914.

leopard

Scale 22

Series 69

mc 3128

10.7 K.

alt: +0.6

Pc.

	sc.1	sc.2	Curve Magn.		sc.2	sc.2	Curve Magn.	
br. & hazy	1	3.3			6.4	6.40 0.0	0.54	6.94
	2	3.8			7.3	7.35 1.0	0.28	7.63
	3	4.7	4.56	9.20	8.7	8.65 1.0	-0.05	8.60
	4	5.1	4.44	9.54	9.2	9.25 0.1	-0.19	9.06
not meas. } double }	5	.	4.32		9.7	9.75 0.2	-0.30	9.45
	6	5.9	4.32	10.22	n.s.	n.s.		
	7	6.4	4.27	10.67				
	8	6.6	4.23	10.83				
	9	6.9 6.85 1.0	4.19	11.04				
	10	7.2 7.20 0.0	4.14	11.34				
	11	7.4 7.40 0.0	4.11	11.51				
	12	8.3 8.30 0.0	4.00	12.30				
	13	8.4 8.50 1.1	3.98	12.48				
	14	8.6 8.65 0.1	3.96	12.61				
	15	9.3 9.35 1.0	3.91	13.26				
	16	9.7 9.70 0.0	3.88	13.58				

Friday January 30, 1914.

Copied

Scale U.

Series 69.

mc 3129

35 K

alt. +.83

Pc.

	pc.1	pc.2	pc.2	Curve	Magn.	pc.2	pc.2	Curve	Magn.
1	B					6.6 ^{6.65}	6.7 ^{0.1}	+0.49	7.14
2	5.2			4.43	9.63	9.5 ^{9.40}	9.3 ¹	-0.22	9.18
3	5.3			4.41	9.71	9.9 ^{10.00}	10.1 ¹	-0.36	9.64
4	5.6			4.38	9.98	n.s.			
5	5.7 ^{5.75}	5.8 ^{1.0}		4.35	10.10				
6	6.4 ^{6.35}	6.3 ^{0.1}		4.28	10.63				
7	6.8 ^{6.75}	6.7 ^{0.1}		4.20	10.95				
8		8.2		4.01	12.21				
9		8.4		3.99	12.39				
10		8.6		3.97	12.57				
11		8.8 ^{8.80}	8.8 ^{0.0}	3.95	12.75				
12		9.4 ^{9.35}	9.3 ^{0.1}	3.91	13.26				
13		9.6 ^{9.60}	9.6 ^{0.0}	3.89	13.49				
14		9.6 ^{9.60}	9.6 ^{0.0}	3.89	13.49				
15		9.5 ^{9.55}	9.6 ^{1.0}	3.90	13.45				

Friday January 30, 1914.

Scale 22

Series 69.

Scopied

mc 3130

60 K.

alt. +.221

P.C.

	sc.1	sc.2	sc.2	Curve	Magn.	sc.1	sc.2	Curve	Magn.
	3					7	7.50 0.0		
1	3.7					8.5	1.5	0.25	7.75
2	4.3 ³			4.57	8.87	8.6	8.60 8.6	-0.03	8.57
3	4.7			4.50	9.20	9.4	9.40 9.4	-0.21	9.19
4	5.1			4.36	10.06				
5	6.1			4.30	10.40				
6	6.4	6.40 0.0	6.4	4.27	10.67				
7	5.9	6.05 6.2		4.30	10.35				
8	6.8	6.80 0.0	6.8	4.20	11.00				
9	7.4	7.50 1.1	7.6	4.10	11.60				
10	7.9	7.85 1.0	7.8	4.05	11.90				
11		8.15 1.0	8.2	4.01	12.16				
12		8.65 0.1	8.7	3.97	12.62				
13		9.30 0.0	9.3	3.91	13.21				
14		9.35 0.1	9.3	3.90	13.25				
15		9.75 0.2	9.7	3.89	13.64				
16		9.95 1.0	10.0	3.88	13.83				

Imm. are elongated.

116

Friday January 30, 1914.

Scale n.

Series 69.

MC 313 2

(MC 3131 qual. B)

Pole.

P.C.

pc.1 pc.2 pc.3

pc.2 pc.2

5

5.8^{585 0.1} 5.9

6

6.6^{6.60 0.0} 6.6

8

8.2^{8.30 1.1} 8.4

9

8.8^{8.80 0.0} 8.8

10 4.7

9.3^{9.35 1.0} 9.4

11 4.9

10.0^{9.80 1.1} 9.9

12 5.4

4.

13 6.1

14 6.4

15 6.7

16 7.4^{7.35 0.1} 7.317 7.6^{7.60 0.0} 7.618 8.2^{8.20 0.0} 8.219 8.6^{8.60 0.0} 8.620 8.8^{8.80 0.0} 8.823 9.4^{9.40 0.0} 9.425 9.9^{9.95 1.0} 10.0

26 n.s.

27

28

See page 112

10:50

Thursday February 19, 1914 -

Seale M.		Measures of c.s. for Var. near C4. (Miss Cannon's Var.)				Seq. on Mc 698.	
10:25		Mc 4665		curr magn.		P.C. sc.2	
		sc.1	sc.2	sc.2		sc.2	(see P. 120 for diagrams of stars)
a	35.37			5.61	9.31	8.3	8.3 8.30 00
b	39.41			5.49	9.59	8.1	8.1 8.10 00
c	39.41			5.49	9.59	9.1	9.1 9.10 00
d	47.49			5.24	10.14	9.6	9.6 9.60 00
e	49.51			5.19	10.29	9.8	9.8 9.80 00
f	54.56			5.06	10.66	9.9	9.9 9.90 00
g	56.58	57	57.50.1	5.02	10.77	10.0	10.0 10.00 00
h	60.62	6.1	6.15 0.1	4.93	11.08		
i	67.69	6.8	6.85 1.0	4.82	11.67		
j	71.74	7.2	7.25 1.0	4.78	11.98		
k	74.76	7.4	7.45 1.0	4.76	12.36		
l	77.77	7.7	7.75 1.0	4.74	12.74		
m	81.81	8.1	8.15 1.0	4.73	13.13		
n	84.84	8.4	8.45 1.0	4.72	13.52		
o	88.88	8.8	8.85 1.0	4.70	13.90		
p	92.92	9.2	9.25 1.0	4.71	14.29		
q	96.96	9.6	9.65 1.0	4.76	14.68		
r	100.100	10.0	10.05 1.0	4.84	15.07		
s	104.104	10.4	10.45 1.0	4.89	15.46		
t	108.108	10.8	10.85 1.0	4.91	15.85		
u	112.112	11.2	11.25 1.0	4.97	16.24		
v	116.116	11.6	11.65 1.0	5.02	16.63		
w	120.120	12.0	12.05 1.0	5.07	17.02		
x	124.124	12.4	12.45 1.0	5.12	17.41		
y	128.128	12.8	12.85 1.0	5.17	17.80		
z	132.132	13.2	13.25 1.0	5.22	18.19		
Var.	7.3	7.3	7.3 0.1	4.77	12.07		

Seq. C4		Diff.		Diff.	
1	B.			5.3	5.3 5.30 00
2	B.			5.8	6.1 6.15 0.1
3	2.3 2.5	+4.72		6.8	6.7 6.75 0.1
4	1.9 2.1	+5.53		6.7	6.6 6.65 0.1
5	2.6 2.8	5.53		7.0	7.3 7.30 0.1
4a	2.3 2.5			7.4	7.4 7.40 0.1

Thursday February 19, 1914.

Scale m Measures of ^{c.s.} new Variable near C4 cont.

	mc 4665			Diff.	O.C. P.C.			Diff.
	sc.1	sc.2	sc.2		sc.2	sc.2		
6	2.2	2.4		+5.95	7.3	7.3	7.30.00	+1.05
7	2.5	2.1		+6.01	7.8	7.8	7.80.00	0.91
8	2.8	3.0		5.89	7.8	7.8	7.80.00	1.09
9	3.2	3.4		5.80	8.4			0.80
9a	3.7	3.9			8.6			
10	4.3	4.5		5.27	8.8			0.97
11	4.3	4.5		5.28	8.9			1.08
12	4.3	4.5		5.42	9.4			0.52
13	4.4	4.6		5.44	9.6			0.44
14	5.6	5.8		4.77				
15	5.8	6.0		4.90				
16	5.6	5.8	6.2	6.00 ± 2	4.99			
17	6.3	6.5	6.4	6.45 ± 0	4.96			
18	6.6	6.8	6.8	6.80 ± 0	4.98			
19		7.4		4.63				
20		7.6		4.78				
21		7.6		4.79				
22		8.2		4.45				
23		7.8		5.15				
24		8.7	8.7	8.70.00	4.70			
25		8.8	8.9	8.85 ± 0.1	4.85			
25a		8.7	8.7	8.70.00				
26		9.2	9.3	9.25 ± 0.1	4.75			
27		9.6	9.6	9.60.00	4.68			
28		9.8	9.7	9.75 ± 0.1	4.95			
29		10.0	10.0	10.00.00	4.89			
30		7.5						
31a		9.5	9.5	9.50.00				
2		7.5		7.5				
25b		9.4	9.4	9.40.00				
25c		9.4	9.4	9.40.00				

Thursday February 19, 1914.

Scale m. Measures of new^{C.S.} Variable near C4 cont.
 M10 4665 Var. + N.S. Region C4.
 P.C.

	sc.1	sc.2	sc.2	Deur	Magn.	sc.2	Curve	Magn.
a	6.163	6.3	6.30 00	2.38	8.68	100	-0.93	<u>9.01</u>
b	6.668	7.3	7.0523	2.09	9.14	n.s.		
c	7.7	7.6	7.6510	1.86	9.51			
d	8.4	8.3	8.3501	1.71 ⁶⁸	10.06 ³			
e	8.7	8.7	8.70 00	1.65	10.35			
f	8.7	8.7	8.70 00	1.65	10.35			
g	9.3	9.4	9.3510	1.68 ⁷¹	11.03 ⁶			
h	9.4	9.6	9.5021	1.74	11.24			
i	9.8	9.8	9.80 00	1.80	11.60			
not comp. h	10.0	10.0	10.00 00	1.84	<u>11.84</u>			
m	10.0	10.0	10.00 00	1.84	<u>11.84</u>			
n	n.s.?	n.s.?						
Key ft. o	10.2	10.2	10.20 00	1.90	<u>12.10</u>			
Var.		n.s.	Diff.					
Seq. C4	1	3.234	+303			7.6	7.7	7.6501 -1.22
	2	4.244	2.69			8.4	8.4	8.40 00 -1.31
	3	3.941	3.12			8.5	8.5	8.50 00 -1.28
	4	4.547	2.93			8.8	8.7	8.7501 -1.12
	4a	4.850	2.33			8.8	8.8	8.80 00
	5	5.860				9.6	9.6	9.60 00 -1.27
	6	5.456	2.75			9.4	9.5	9.4501 -1.10
	7	6.163	6.3 6.30 00	2.41		9.1		-0.99
	8	6.567	6.7 6.70 00	2.19		9.8		-0.91
	9	6.870	7.2 7.10 01	2.10		10.1		-0.90
	9a	7.6	0.6					
	10	8.1	0.67					
	11	8.2	1.58					

wrong unit.
 looked up.
 Feb. 27, 1914

120

Thursday, February 19, 1914

Scale m. Measures of ^{c.s. for} New Variables near C4 cont.
m 4665

	sc. 1	sc. 2		Diff.
12		8.3		1.62
13		8.2		1.84
14		8.8		1.71
15	9.4	9.3	9.35 0.1	1.55
16	9.2	9.3	9.25 0.1	1.74
17	9.1	9.6	9.65 0.0	1.76
18	10.0	10.0	10.00 0.0	1.78
19	10.0	10.0	10.00 0.0	2.03



Thursday, February 19, 1914.

Scale m. Measures of New Variables near C4. cont

2 -

N	me 4788	sc.1	sc.2	curr magn.	Images a	curr magn.	sc.2	curr magn.
• = a								
• = central in.								
• = a ^v								
a	28 30			5.65 8.65	7.20 7.3 7.25 0.1		7.5 7.4 7.45 0.1	1.05 8.50
b	3.1 3.3			5.58 8.88	7.8 7.8 7.8 0.0		8.2 8.2 8.2 0.0	1.07 9.24
c	3.8 4.0			5.40 9.40	8.2 8.3 8.25 0.1		8.3 8.2 8.25 0.1	1.08 9.33
d	4.7 4.9			5.11 10.01	8.6 8.7 8.65 0.1		8.6 8.6 8.6 0.0	1.11 9.71
e	4.7 4.9			5.11 10.01	9.3 ^{hor.} 9.3 2		9.3 9.4 9.35 0.1	1.24 10.59
f	5.2 5.4			4.97 10.37	9.3 9.3 9.3 0.0		9.5 9.3 9.4 0.1	1.25 10.65
g	5.6 5.8			4.85 10.65	9.6 9.6 9.6 0.0		9.6 9.6 9.6 0.0	1.31 10.91
h	5.8 6.0 6.1			6.05 0.1 4.79 10.84	10.0 9.7 9.85 2.1		9.8 9.7 9.75 0.1	1.35 11.10
k	6.4 6.6 6.7			6.65 0.1 4.66 11.31	10.1 10.1 2		10.1 10.1 2	1.48 11.58
l = k' x	6.1 6.9 6.9			6.9 0.0 4.60 11.50				
m. k' x	6.9			4.60 11.50				
m. l x	1.5			4.52 12.02				
o x	1.4			4.52 11.92				
p x	1.7			4.52 12.22				
q x	1.8			4.52 12.32				
r x	8.4			4.60 13.00				
s x	8.9	8.1	8.80 1.1	4.68 13.48				
t x	9.3	9.2	9.25 0.1	4.78 14.03				
u x	9.4	9.4	9.40 0.0	4.81 14.21				
w x	9.7	9.6	9.65 0.1	4.88 14.53				
var.	6.8 6.7	1.4		7.20 2.2 4.55 11.75				
x x	10.0	10.0	10.00 0.0	4.98 14.98				
y x	10.0	9.9	9.95 0.1	4.96 14.91				

Reductions on these plates
checked by J.C.M. & A.D.W.

Images elongated.

(over)

Thursday February 19, 1914-

Scale M. Measures of c.s. for new variables near C4. cont.
mc 4788 Cont.

N			Images U	Images	Diff.
	a'	sc 2 mean			
	central im.	sc 2 mean	a'	a' sc 2 mean	
	= a'	Images a' + a''			
S	1 B.		5.6	5.6 5.60 00	+0.83
	2 B.		6.2	6.3 6.25 01	0.84
	3 1.7 1.9	+5.32	5.1	5.8 5.75 10	1.47
	4 1.6 1.8	5.83	6.6	6.4 6.50 11	1.13
	4a 2.0 2.2		6.8	6.9 6.85 01	
	5 2.8 3.0	5.33	7.4	7.4 7.40 00	0.93
	6 2.4 2.6	5.75	7.4	7.3 7.35 01	1.00
	7 2.8 3.0	5.71	7.4	7.6 7.50 11	1.21
(6)	8 3.4 3.3	5.59	7.6	7.6 7.60 00	1.19
	9 3.4 3.6	5.60	8.3	8.3 8.30 00	0.90
	9a 3.9 4.1		8.4	8.4 8.40 00	1
	10 4.6 4.8	4.97	8.6	8.7 8.65 01	1.12
	11 4.4 4.6	5.18	8.6	8.7 8.65 01	1.13
	12 4.4 4.6	5.32	8.1	8.7 8.70 00	1.22
	13 4.1 4.9	5.14	8.1	8.8 8.75 10	1.29
63 n.c.	14 5.5 5.7	4.87	9.4	9.5 9.45 01	1.12
	15 5.8 6.0 6.2	4.80	9.7	9.6 9.65 10	1.25
	16 6.3 6.5 6.4	4.54	9.8	9.7 9.75 01	1.24
	17 6.5 6.7 6.7	4.71	9.8	9.9 9.85 11	1.56
	18 6.8 7.0 7.3	4.63	10.0	10.1 10.05 01	1.73
	19 7.6	4.43	n.s.	n.s.	
	20 7.8	4.58			
	21 7.7	4.69			
	22 8.2	4.45			
	23 8.4	4.55			
	24 8.8	4.60			

Thursday February 19, 1914.

Scale M Measures of C.S. for New Var. near C4 cont.
Mc 4788 cont.

	sc.1	sc.2		Diff.
25	8.1			5.00
25a 26	8.1	8.1	8.10.00	
25-b 27	9.5	9.5	9.50.00	
26	9.2	9.2	9.20.00	4.80
def. 27	9.5?	def.		
27a	9.3	9.2	9.25.00	
27b	9.6	9.6	9.60.00	
28	9.8	9.7	9.75.00	4.95
29	10.0	9.9	9.95.00	4.94
30				
e	9.6			

3:10

Saturday February 21, 1914.

Scale m.

Measures of c.s. for new var. near C4 cont.

9.10 -

MD 4788

C.C.

	sc.1	sc.2	Curve Magn.		sc.2	Magn. (corr)
a	6.16 ³ 6.5		6.40 ¹ 1.1	2.35	8.75	-1.15 8.60
b	7.07 ² 7.4		7.30 ¹ 1.1	1.89	9.17	very faint
c	7.8	7.7	7.75 ⁰ 1.1	1.69	9.44	
d	8.4	8.4	8.40 ⁰ 0.0	1.54	9.94	
e	8.6	8.6	8.60 ⁰ 0.0	1.54	10.14	
f	8.6	8.7	8.65 ⁰ 1.1	1.55	10.20	
g	9.3	9.4	9.35 ¹ 0.0	1.63	10.98	
h	9.5	9.5	9.50 ⁰ 0.0	1.66	11.16	
i	9.7	9.7	9.70 ⁰ 0.0	1.69	11.39	
l	10.0	10.0	10.00 ⁰ 0.0	1.77	11.77	
m	10.2	10.2	10.20 ⁰ 0.0			
o						
var.	n.s.					

	sc.2	sc.2		sc.2	sc.2	
1	3.63.8		2.63	7.8	7.8 7.80 ⁰ 0.0	-1.37
2	4.44.6		2.49	8.5	8.5 8.50 ⁰ 0.0	-1.41
3	4.24.4		2.82	8.7	8.6 8.65 ⁰ 1.0	-1.43
4	4.74.9		2.73	8.7	8.8 8.75 ¹ 1.0	-1.12
5a	5.45.6			9.3	9.3 9.30 ⁰ 0.0	
5	6.36.5 6.4		6.45 ⁰ 1.0	9.7	9.6 9.65 ⁰ 1.0	-1.32
6	5.55.7 5.7		5.70 ⁰ 0.0	9.7	9.6 9.65 ⁰ 1.0	-1.30
7	6.26.4 6.4		6.40 ⁰ 0.0	9.7	9.7 9.70 ⁰ 0.0	-0.99
8	6.66.8 6.8 5.7		6.80 ⁰ 0.0	9.7	9.9 9.80 ¹ 1.1	-0.91
9		7.2	2.00	n.s.	n.s.	
9a		7.6				
10		8.3	1.47			
11		8.3	1.48			
12		8.4	1.52			
13		8.4	1.64			

Saturday February 21, 1914.

Scale m. measures of c.s. for new Var cont.
M D 4788 cont.

	sc.1	sc.2		
14	9.2	8.8	9.00 22	1.57
15	9.4	9.3	9.35 01	1.55
16	9.3	9.3	9.30 00	1.69
17	9.8	9.7	9.75 01	1.66
18	10.0	9.9	9.95 01	1.83
19	n.s.			
20				
21				

9:30

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Saturday February 21, 1914.

Scale ⁰ ~~10~~

10130

Measures of c.s. for ~~54~~ var near C4

AC 8145

sc.1 sc.2

a 5.2

b 6.2

c 5.8

d

e

(74.3rd scale)

f

7.4⁶

g

8.4

h

i

j

k

l

var.

1

2 2.1

3

4

5

too close to 8

6

7

too close to no. 6.

8

9

10

11

12

13

Reject pl. too poor.

See next page.

Saturday February 21, 1914.

Scale ^① ~~12~~ - measures of c.s. for Var. near C4.
Ac 8, 145-

sc.1 sc.2

14

15

16

17

Reject.

Saturday February 21, 1914

Scale 0.

Measurements of C.S. for New Var. near C4. cont.

10.45

ac 12789

	sc.1	sc.2	sc.2		curr magn.
a	5.559 B.		5.7		3.19 8.69
b	5.759	6.158	6.00 ± 1	5.75 ± 0	3.20 8.95
c	6.365	6.562	6.50 00	6.25 ± 0	3.19 9.44
d	6.767	6.865	6.85 10	6.60 ± 1	3.17 9.77
e	6.971	7.471	7.25 ± 2	7.00 ± 1	3.14 10.14
f	6.971	7.471	7.25 ± 2	7.00 ± 1	3.14 10.14
g		7.774 77	7.70 00	7.55 ± 1	3.11 10.66
h		8.481 83	8.35 01	8.20 ± 1	3.02 11.22
k		8.683 85	8.55 01	8.40 ± 1	2.97 11.39
l = k		8.784 87	8.70 00	8.55 ± 1	2.94 11.49
m = l		8.885 94	9.10 ± 3	8.95 ± 4	2.84 11.79
n = k		8.784 87	8.70 00	8.55 ± 1	2.94 11.49
o = m		9.289 95	9.35 ± 1	9.20 ± 3	2.75 11.98
p = r		9.471 94	9.40 00	9.25 ± 2	2.77 12.02
q = r		9.692 96	9.60 00	9.45 ± 2	2.71 12.16
r = p		9.895 97	9.75 01	9.60 ± 1	2.68 12.28
s = p		10.097	10.0 ±	9.7 ±	2.64 12.34
Var.		9.491	9.4 ±	9.1 ±	2.80 11.90

1 3.234

+ 3.23

2 4.244

2.89

3 4.345

2.92

4 4.547

3.13

4.2 4.749

3.13

5 5.254 B.

No close b8

6 .

1 5.456 B.

3.31

" " " 6

8 .

9 6.365 6.366

6.40 11 6.15 ± 2 3.05

9a 6.466 6.767

6.65 01 6.40 00

10 6.769 7.269

7.05 12 6.80 ± 1 2.97

Saturday February 21, 1914.

Scale 4.

Measures of c.s. cont.

Ac 12789

	ac.1	ac.2	ac.3	
11	6.668	6.865	6.80 00	6.55 01 3.223
12	6.668	6.966	6.85 01	6.60 00 3.321
13	6.971	7.269	7.15 20	6.90 00 3.14
14	7.678		7.6 0	7.6 0 2.97
15	7.88			3.10
16	7.7	7.7	7.70 00	3.29
17	8.4			3.01
18	9.2			2.58
19	9.6	9.4	9.50 11	2.53
20	9.1	9.8	9.75 10	2.63
21	9.4	9.2	9.30 11	3.09
22	9.8	9.8	9.80 00	2.85
23	7.			

Saturday, February 21, 1914

Scale 0.

11:20

measures of c.s. for new Var. near c4 cont.

Ac 12752

	sc.1	sc.2	sc.3		curr magn.
a	5.860	6.259	6.18 ⁰ 41	5.85 01	2.63 8.48
b	6.668	6.865	6.80 00	6.55 01	2.60 9.15
c	6.769	7.370	7.10 ² 2	6.85 12	2.58 9.43
d		7.774		7.4 2	2.56 9.96
e		8.481		8.1 2	2.54 10.64
f		8.481		8.1 2	2.54 10.64
g		8.784		8.4 2	2.54 10.94
h	8.885	8.6	8.60 00	8.55 10	2.55 11.10
i	9.390	8.8	9.05 32	8.90 11	2.59 11.47
j	9.289	9.2	9.20 00	9.05 12	2.58 11.63
k	9.491	9.2	9.30 11	9.15 10	2.58 11.73
l	9.491	9.4	9.40 00	9.25 12	2.60 11.85
m	9.693	9.6	9.60 00	9.45 12	2.61 12.06
n	9.794	9.8	9.75 10	9.60 22	2.62 12.22
o		n.s.			
p					
q					
r					

Var

9.491

9.1

C4 Seq

	sc.1	sc.3		Diff.
1	3.638		3.6	+2.83
2	4.648		4.6	2.49
3	4.648	8.	4.6	2.62
4	4.850	8.	4.8	2.83
5	5.759	5.4 0	5.55 12	2.78
6	.			
7	6.365	5.8	6.05 32	2.66
8	.			
9	6.769	6.7	6.70 00	2.50

Saturday February 21, 1914.

Scale 6

measures of c.s. cont.

Ac 12752

	sc. 2	sc. 3		
9a	6.7	6.8	6.75 ± 0	
10	7.4	7.4	7.4 ± 0	+2.37
11	6.9	7.2	7.05 ± 0.2	2.73
12	7.8	7.4	7.6 ± 0.2	2.32
13	7.4	7.4	7.4 ± 0	2.64
14		8.2	8.2 ± 0	2.37
15		8.4	8.4 ± 0	2.50
16		8.3 8.4	8.35 ± 0	2.64
17		8.7 8.7	8.7 ± 0.0	2.71
18		9.2 9.0	9.1 ± 0.1	2.68
19		9.5 9.5	9.5 ± 0.0	2.53
20		9.7 9.8	9.75 ± 0.0	2.63
21		7.		

11:55

Monday, February 23, 1914 -

Scale 0.

Measures of c.s. for Var. near C4 cont

9:30

Ac 12764

Ac

sc.1 sc.2² sc.3

Curv Magn.

a	5.6	5.5	5.5	0.1	2.96	8.51
b	6.4	6.2	6.3	0.1	3.03	9.33
c	6.6	6.4	6.5	0.1	3.05	9.55
d	6.8	6.1	6.7	0.1	3.09	9.84
e	7.774	7.5	7.45	0.1	3.16	10.61
f	7.774	7.5	7.45	0.1	3.16	10.61
g	8.380	7.7	7.85	0.1	3.20	11.05
h	8.683	7.7	8.00	0.2	3.20	11.20
i	8.885	8.5	8.50	0.0	3.17	11.67
j	8.885	8.6	8.55	0.0	3.16	11.71
k	9.389	8.7	8.80	0.1	3.12	11.92
l	9.693	8.8	9.05	0.2	3.06	12.11
m		9.4	9.45	0.1	2.98	12.43
n		9.4	9.55	0.2	2.94	12.49
o		9.8	9.75	0.1	2.88	12.63
p		9.7				
q		9.7				
r		9.7				
s		9.7				
t		9.7				
u		9.7				
v		9.7				
w		9.7				
x		9.7				
y		9.7				
z		9.7				
Var		8.4				

Diff.

1	3.21				+3.23
2	4.3				2.79
3	4.2				3.02
4a	4.7				3.03
4	4.6				2.93
4a	5				2.85
5	6.4				3.11
6	5.5				2.94
7	5.1	5.5	5.60	0.1	2.95
8	6.2	5.7	5.95	0.3	3.12
9	6.2	6.3	6.25	0.1	
10a	6.4	6.3	6.35	0.1	
10	6.4	6.6	6.65	0.0	

Monday February 23, 1914.

Scale ①

measures of ^{c.s.} new Var. cont.
 Ac 12764

	no. 1	no. 2	no. 3		Diff.
11	6.1		6.6	6.65 10	3.13
12	6.8		6.7	6.75 01	3.17
13	6.8		7.2	7.05 22	3.04
14			7.5 74	7.45 10	3.12
15			7.1 77	7.70 00	3.20
16			7.8 77	7.75 01	3.04
17			8.3 82	8.25 10	3.16
18			8.3 84	8.50 11	3.28
19			9.1 87	9.05 13	2.98
20			9.4 94	9.40 00	2.98
21			9.4 94	9.40 00	2.99
22			9.7 97	9.70 00	2.95
23			7.		

10.10

Monday February 23, 1914.

Scale 0

Measures of c.s. for new Var. cont.

Ac 12803

Ac

	pc.1	pc.2	pc.3	curr magn.	
a	5.9		5.7	5.80 1.1	2.67 8.47
b	6.5		6.4	6.45 1.0	2.66 9.11
c	6.6		6.6	6.60 1.0	2.65 9.25
d			7.3	7.30 1.0	2.65 9.95
e			7.5	7.50 1.0	2.64 10.14
f			7.8	7.75 1.1	2.62 10.37
g			7.8	7.75 1.1	2.62 10.37
h			8.5	8.45 1.0	2.62 11.07
i			8.8	8.75 1.1	2.62 11.37
j			9.3	9.25 1.0	2.61 11.86
k			9.9	9.85 1.2	2.62 11.67
l			9.6	9.55 1.1	2.60 12.25
m			9.7	9.65 1.0	2.60 12.35
n			9.5	9.55 1.0	2.60 12.15
o			7		7
p			7		7
q			n.s.		
r			9.7		
s					
t					

Var.

C 4 reg.

1	4.1				diff.
2	4.4				+2.73
3	4.5				2.69
4	5.3	5.1	5.20 1.1		2.72
4a	5.3	5.1	5.20 1.1		2.43
5	5.6	5.4	5.50 1.1		2.83
6	5.6	5.4	5.50 1.1		2.85
7	5.7	5.6	5.65 1.0		3.06
8	6.4	6.4	6.40 1.0		2.49
9	6.4	6.6	6.50 1.1		2.70
9a	6.5	6.6	6.55 1.0		
10	7.0	7.3	7.15 1.1		2.62

Monday February 23, 1914.

Scale 0.

Measures of c.s. for new Var. cont.

Ac 12803 cont.

pc.1 pc.2 pc.3

11	7.1	7.2	7.15 01	+2.63
12		7.4 7.4	7.40 00	2.52
to close to defect. 13		7.6 7.6	7.60 00	2.44
14		7.6 7.7	7.65 01	2.92
15		8.4 8.4	8.40 00	2.50
16		8.4 8.3	8.35 01	2.64
to close to a defect. 17		8.6 .	.	.
18		8.6 8.7	8.65 01	3.13
19		9.4 9.6	9.50 11	2.53
20		9.8 9.9	9.85 01	2.53
21		7. 7.	.	.

10:40

136

Wednesday February 25, 1914.

Scale

Circumpolar Variables

R Urs. Maj.

M D 20 30

Film up - no. down. upper images.

a

b

c

d

e

f

Interrupted

Tuesday March 3, 1914.

Scale m.

9:05

Cloudy
Rain

Measures of N.E. Region

I 34911.

1012 23-15°

Alt. Corr. - 0.18

G.C.

Polar Sep.

pc.1

pc.2

Diff

pc.1

pc.2

Diff

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

23

25

26

4.9

4.7

5.5

5.7

5.9

6.1

6.3

6.5

6.7

7

7.1

7.3

7.5

7.7

7.9

8.1

8.3

8.5

8.7

8.9

9.1

9.3

9.5

9.7

9.9

10.1

10.3

10.5

10.7

10.9

11.1

11.3

11.5

11.7

11.9

12.1

12.3

12.5

12.7

12.9

13.1

4.12

3.85

3.86

3.75

3.60

3.58

3.80

3.83

3.66

3.77

3.98

3.99

4.12

4.28

4.12

4.28

4.12

4.28

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4.12

4.28

4.12

4.28

4.12

4.28

7.8

7.8

8.6

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9.4

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10.1

See next page for St. Sep.

Tuesday March 3, 1914.

Scale m.

Measures of N.S. Region

D12

I 34911 cont

Alt. Cor. -0.18

Copied

9c

pc.1 pc.2
3.4 Curve Magn.

pc.2 pc.2 Curve Magn.

Im along!!

1	3.2		
2	2.7		
3	3.4		
4	3.9		
5	3.5		
6	3.8		
7	4.1		
8	4.2	4.14	8.79
9	4.1	4.01	9.16
10	4.8	4.01	9.16
11	5.2	3.95	9.40
12	5.3	3.95	9.40
13	5.3	3.92	9.47
14	5.8	3.88	9.98
15	5.1	3.82	9.87
16	6.3	3.75	10.25
16a	6.1	3.70	10.70
17	7.4	3.69	11.09
18	7.5	3.69	11.19
19	7.3	3.69	10.99
20	7.1	3.70	11.40
21	7.8	3.71	11.51
22	8.1	3.74	11.84
23	8.4	3.78	12.18
24	8.7	3.84	12.54

8.8	8.8	-1.27	7.53
8.8	8.8	-1.27	7.53
9.4	9.3	-1.05	8.30
9.3	9.4	-1.05	8.30
9.6	9.7	-0.89	8.76
9.8	9.9	-0.78	9.07
9.9	9.9	-0.74	9.16
9.9		+0.74	9.16
10.1		-0.58	9.52?

Tuesday March 3, 1914.

Scale m

Measures of N.S. Region D12 23-15°
I 34911 cont.

	pc.1	pc.2	pc.2	Curve	Magn.
25		8.6		3.82	12.42 78
26		8.1		3.85 ⁴	12.55 ⁴
27a		8.1		3.85 ⁴	12.55 ⁴
27		9.1	8.8	3.90	12.85
28		9.3	9.4	4.00	13.35
29		9.4	9.3	4.00	13.45
30		9.6	9.6	4.09	13.69
31		9.8	9.8	4.65	14.45
32		±	±		±

9:45

Wednesday March 4, 1914.

Scale m

9:55

Measures of N.S. Regions.

I 34915

T'Plate.

19^h - 15^m D 10.

Alt. cor. -0.20 Copied

P.C.

sc.1 sc.2

sc.2 sc.2

Diff.

5

7.7 7.8 7.75 1.0 - 1.26

6

8.6 8.5 8.55 0.1 - 1.44

8

9.4 9.2 9.30 1.1 - 1.07

9

9.7 9.7 9.70 0.0 - 0.87

Diff.

10

10.0 10.0 10.00 0.0 - 0.98

11

5.4

5.6

5.60 0.0

3.42

12

5.9

6.4

6.25 1.2

3.30

13

6.4

6.6

6.60 0.0

3.26

14

6.6

7.0

6.90 1.1

3.40

15

7.1

7.3

7.30 0.0

3.35

16

7.6

7.7

7.65 0.1

3.43

17

7.7

7.9

7.80 1.1

3.60

18

7.9

8.2

8.05 1.2

3.58

19

8.5

8.5

8.50 0.0

3.56

20

8.6

8.6

8.60 0.0

3.82

21

8.8

8.9

8.75 0.1

3.98

22

9.4

9.4

9.40 0.0

3.94

23

9.8

9.9

9.85 0.1

4.02

24

1

1

25

1

1

26

1

1

sc.1 sc.2 sc.1

Curr Magn.

Star. Reg.

1

3.3

3.5

3.3

3.5

2

3.7

3.9

3.7

3.9

3

3.7

3.9

3.7

3.9

4

3.7

3.9

3.7

3.9

5

3.7

3.9

3.7

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6

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9

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10

3.7

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3.7

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11

3.7

3.9

3.7

3.9

12

3.7

3.9

3.7

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13

3.7

3.9

3.7

3.9

14

3.7

3.9

3.7

3.9

15

3.7

3.9

3.7

3.9

Wednesday March 4, 1914.

Scale m

Measures of N.S. Regions
I 34915 cont

T Plate

19^h -15

D 10

G.C.

	pc.1.	pc.2	Curve	Magn.
8	4.6	4.8 4.9 5.1	3.24	8.19
9	4.1	4.9 4.8 5.0	3.24	8.09
10	3.1	3.9 3.9 5.0	"	"
11	4.1	4.9 5.0 5.1 5.2	3.25	8.30
12	5.2	5.4 5.4 5.0 5.1	3.26	8.66
13	5.2	5.4 5.4 5.0 5.1	3.27	8.72
14	5.4	5.6 5.6 5.0 5.1	3.28	8.88
15	6.6	6.8 6.7 5.0 5.1	3.24	10.09
16	5.8	6.0 6.1 5.0 5.1	3.29	9.39
17	6.4	6.6 6.6 5.0 5.1	3.32	9.92
18	6.2	6.4 6.4 5.0 5.1	3.31	9.71
19	6.5	6.7 6.7 5.0 5.1	3.33	10.03
20		7.4 7.4 7.4 5.0 5.1	3.45	10.85
21	6.8	7.0 7.1 5.0 5.1	3.39	10.49
22	7.0	7.2 7.3 5.0 5.1	3.41	10.71
23	6.8	7.0 7.1 5.0 5.1	3.39	10.49
24		7.3 7.3 5.0 5.1	3.43	10.78
25		7.8 7.8 5.0 5.1	3.52	11.32
26		7.5 7.5 5.0 5.1	3.48	11.03
27		7.6 7.6 5.0 5.1	3.49	11.14
28		7.8 7.8 5.0 5.1	3.57	11.57
29		8.4 8.4 5.0 5.1	3.65	12.00
30		8.4 8.4 5.0 5.1	3.67	12.17
31		8.6 8.6 5.0 5.1	3.73	12.33
32		8.6 8.6 5.0 5.1	3.73	12.33
33		9.2 9.2 5.0 5.1	3.92	13.22
34		9.2 9.2 5.0 5.1	3.94	13.29
35		9.4 9.4 5.0 5.1	3.95	13.35
36		9.7 9.7 5.0 5.1	4.04	13.74

pc.2	pc.2	Curve	Magn.
9.3	9.4	-1.04	8.31
9.8	9.7	-0.97	8.88
9.4	9.3	-1.04	8.31
t.p.	t.p.	along	
9.8	9.8	-0.96	8.84
9.8	9.8	-0.96	8.84

on ing dat
of square 34 a on
diaphan chart

Monday March 9, 1914.

Scale m

10:05

Measures of N.S. Region

I 34369

D 1 1-15°

Alt. Cor. -0.18

Caput

O.C.

pc. 2

pc. 2 sv. 2 Diff.

5				
6				
8				
9				Diff.
10	4.6 ^{4.8}	4.9	4.85 01	4.17
11	4.8 ^{5.0}	5.3	5.15 21	4.40
12	5.2 ^{5.4}	5.6	5.50 11	4.36
13	5.9 ^{5.9}	6.2	6.05 12	4.25
14	6.4 ^{6.6}	6.6	6.60 00	4.05
15	6.4 ^{6.6}	6.7	6.65 01	4.43
16	6.9 ^{7.1}	7.2	7.15 10	4.25
17		7.3	7.30 00	4.33
18		7.7	7.70 00	4.36
19		8.2	8.20 00	4.22
20		8.6	8.60 00	4.13

7.1	7.1	7.70 00	-1.21
8.4	8.4	8.40 00	-1.29
9.4	9.2	9.30 11	-1.07
9.6	9.6	9.60 00	-0.77
9.8	9.8	9.80 00	-0.78
9.	9.		

(20)

23	9.2	8.6 w.s. 9.2	9.20 00	4.14
----	-----	--------------	---------	------

Star Seq.

25	9.6	9.6	9.60 00	4.27
26	9.8	9.8	9.80 00	4.53

O.C. #

pc. 2 Curve Magn.

Curve Magn.

lower from ante. 2

3	3.1	3.3
---	-----	-----

" " along.

4	3.2	3.4
5	4.4	4.6 4.8 4.4

8.6	8.65 01	8.1	-1.12 ⁴	7.51
8.7	8.70 00	8.1	-1.12	7.58
8.8	8.75 01	8.1	-1.10	7.65
9.4	9.35 01	9.3	-0.95	8.40
9.2	9.20 00	9.2	-1.00	8.20

Monday March 9, 1914.

Scale m Measures of N.S. Region
I 34369 cont.

S1 1-15°

P.C.

sc.1 sc.2

sc.2 sc.2 Curv Magn.

to far from c -

Curv Magn.

from

t.f.

(5.8 wrong measure)

Im. along.

to far from c -	from	sc.1	sc.2	Curv	Magn.	sc.2	sc.2	Curv	Magn.
6						9.7 ^{9.65}	9.6 ⁰	-0.87	8.78
7			t.f.						
8		4.4	4.55 ²			9.5 ^{9.60}	9.1 ¹	-0.88	8.72
9		4.2	4.7			9.7 ^{9.75}	9.8 ⁰	-0.83	8.92
10		3.4	4.2			9.8 ^{9.75}	9.7 ⁰	-0.83	8.92
11		5.1	5.6	4.30	9.7 ⁵	F.	F.		
12		4.8	5.8	4.30	9.40	n.s.			
13		5.4	5.6	4.30	9.90				
14		5.4	5.8	4.30	10.00				
15		5.6	6.1	4.30	10.25				
16		5.7	6.4	4.30	10.45				
16a		6.2	6.4	4.30	10.70				
17		6.6	7.2	4.30	11.30				
18		6.7	7.3	4.29	11.39				
19		6.9	7.3	4.29	11.49				
20		7.3	7.3	4.29	11.59				
21		7.6	7.5	4.28	11.83				
22		7.7	7.7	4.27	11.97				
23		7.9	8.1	4.25	12.25				
24		8.2	8.2	4.24	12.44				
25		8.3	8.4	4.24	12.59				
26		8.4	8.3	4.24	12.59				
27		8.4	8.5	4.23	12.68				
28		8.7	9.2	4.22	13.17				
29		8.9	8.7	4.22	13.02				
30		9.2	9.4	4.23	13.53				
31		9.4	9.6	4.25	13.75				
32		9.5	9.6	4.26	13.81				
33		9.7	9.8	4.28	14.08				

* P.C. on this
exposure are
poor and faint!!

10.46

Wednesday March 11, 1914

Scale m

Series 181

10:45

MC 4621

Pole.

P.C.

	sc.1	sc.2			sc.1	sc.2		Diff.
5					4.1	4.9	4.9000	1.59
6					5.1	5.8	6.0523	1.06
8					6.8	7.0	7.2022	1.03
9						7.8	7.8000	1.03
10	3.2			5.62	8.2	8.2	8.2000	0.82
11	3.7	3.9		5.65				
12	4.4	4.6		5.26				
13	4.8	5.0		5.30				
14	5.4	5.6		5.05				
15	6.1	6.3	6.3000	4.78				
16	6.5	6.6	6.6500	4.75				
17	6.6	6.7	6.7501	4.88				
18	7	7.4		4.66				
19	7.1			4.72				
20	8.1			4.63				
23	8.5	8.6	8.5510	4.79				
25	9.2	8.9	9.0521	4.82				
26	9.4	9.3	9.3501	4.98				
27	9.6	9.6	9.6000	5.09				
28	9.8	9.8	9.8000	5.31				
29	±	±						
30	See page 149							

Wednesday March 11, 1914

Scale m

Lodwick

Card.

Series 181

W. J. P.

mc 4622

B2

4 0 +45° act. +22

O.e.

	sc.1	sc.2			sc.1	sc.2	sc.2	Curr	Magn.
1	1.2 ^{1.4}		Curr.	Magn.	6.2 ^{6.25}	6.3 ^{6.4}	1.20		7.45
2	1.2 ^{1.4}				6.4 ^{6.4}	6.4 ^{6.4}	1.18		7.58
3	1.4 ^{1.6}				6.3 ^{6.35}	6.4 ^{6.4}	1.19		7.54
4	2.5 ^{2.7}				7.3 ^{7.30}	7.3 ^{7.3}	1.03		8.33
5	2.7 ^{2.9}	5.89	8.79		7.3 ^{7.35}	7.2 ^{7.2}	1.03		8.28
6	3.1 ^{3.3}	5.77	9.07		7.6		0.99		8.59
7	2.8 ^{2.8}	5.89	8.79		7.5		1.00		8.50
8	2.6 ^{2.8}	5.91	8.71		7.6		0.99		8.59
9	2.8 ^{3.0}	5.76	8.76		7.1		0.98		8.68
10	3.6 ^{3.8}	5.63	9.43		8.4		0.89		9.29
11	3.3 ^{3.5}	5.71	9.21		8.5		0.88		9.38
12	3.5 ^{3.7}	5.66	9.36		8.6		0.88		9.48
13	3.4 ^{3.6}	5.69	9.29		8.3		0.91		9.21
14	def.				8.1		0.87		9.57
15	4.3 ^{4.5}	5.40	9.90		9.2	9.2	0.90		10.10
16	4.3 ^{4.5}	5.40	9.90		8.9		0.87		9.77
17	5.2 ^{5.4}	5.13	10.53		9.7		0.97		10.67
18	5.6 ^{5.8}	5.03	10.83		9.1		0.97		10.67
19	5.6 ^{5.8}	5.03	10.83		9.1		0.97		10.67
20	5.7 ^{5.9}	5.00	10.90		9.8		1.00		10.80
21	6.3 ^{6.5}	4.89	11.39		10.0		1.04		11.04
22	6.5 ^{6.55}	4.88	11.43		n.s.				
23	6.6 ^{6.60}	4.87	11.47						
24	6.6 ^{6.65}	4.86	11.51						
24a	6.9 ^{7.05}								
25	7.4	4.81	11.86						

over

for continuation

Wednesday March 11, 1914.

Scale m

Series 181

Me 4622 cont.

	pc. 1	pc. 2	pc. 2	Curve	Magn.
26	7.7			4.77	12.47
27	7.8			4.76	12.56
28	8.4			4.79	13.19
29	8.4			4.79	13.19
30	8.8	8.8		4.85	13.65
31	9.4	9.45	0.1	5.13	14.58
31a	9.7	9.65	1.0	5.27	14.92
32	9.8	9.85	0.1	5.40	<u>15.25</u>
33	9.8	9.85	0.1	5.40	<u>15.25</u>
34	10.0	10.05	0.1		
35	±	±		±	
36					

Wednesday March 11, 1914.

Scale m

Series 181

Card.

mc 4624 10m Region $4^h 50^m + 22.5^s$ alt. $+20$

	sc.1	sc.2	sc.3	Curve	Magn.
1	1.7 ^{1.9}				
2	3.5 ^{3.7}			5.65	9.35
3	4.5 ^{4.7}			5.35	10.05
4	6.0 ^{6.2 6.25 6.1}	6.3		4.93	11.18
5	6.3 ^{6.5 6.50 6.0}	6.5		4.89	11.39
6	6.9 ^{7.1 7.30 7.2}	7.5		4.80	12.10
7		8.2		4.76	12.96
8		8.4		4.79	13.19
9		8.4		4.79	13.19
10		8.7		4.84	13.54
11		8.7 ^{8.80 1.1}	8.9	4.87	13.67
12		9.3 ^{9.30 0.0}	9.3	5.05	14.35
13		9.3 ^{9.30 0.0}	9.3	5.05	14.35
14		9.7 ^{9.70 0.0}	9.7	5.21	14.91
15		9.9 ^{9.90 0.0}	9.9		

sc.1	sc.2	Curve	Magn.
6.7 ^{7.1 7.2}	7.2 ^{7.15 1.0}	1.05	8.20
8.4 ^{8.40 0.0}	8.4	0.90	9.30
9.2 ^{9.30 2.1}	9.4	0.90	10.20
t.p.			
n.s.			

Wednesday March 11, 1914

Scale m.

Series 181

Card.

Mc 46 25

DM Region

5^h 10^m +22.5

alt. corr. +.20

P.C.

	pc.1	pc.2	sc.2	Curve	Magn.
1	^{3.1} 2.9			² 5.89	² 8.99
2	^{5.1} 4.9			5.21	10.31
3	^{6.0 6.15 1.2} 5.8	^{6.3}		4.95	11.10
4	^{6.9 6.85 10} 6.7	^{6.8}		4.83	11.68
5	7	7.3		4.80	12.10
6		7.9		4.75	12.65
7		8.6		4.81	13.41
8		8.8		4.87	13.67
9		8.8		4.87	13.67
10		9.2		5.01	14.21
11	^{9.40 0.0} 9.4	^{9.4}		5.11	14.51
12	^{9.50 0.0} 9.5	^{9.5}		5.19	14.69
13	^{9.65 0.1} 9.6	^{9.7}	²	5.76	14.9
14	^{9.80 0.0} 9.8	^{9.8}	³	5.88	15.41
15	^{10.10 0.0} 10.1	^{10.1}			<u>15.68</u>

pc.1	pc.2	Curve	Magn.
^{8.10 0.0} 8.1	^{8.1}	0.92	9.02
^{9.60 0.0} 9.6	^{9.6}	0.95	10.55
^{9.9 10.00 1.1} 9.5	^{10.1}	1.04	<u>11.24</u>
7.5			

Wednesday March 11, 1914.

Scale m.

Series 181.

mc 4625^b

Pole

P. C.

RC.1	RC.2	RC.1	RC.2	MC4621	Diff
5				4.7	5.2
6				5.6	5.7
8				6.6	7.1
9					
10	2.9			7.8	7.7
11	3.8			8.1	7.9
12	4.1			9.2	
13	4.8			9.3	
14	5.3			9.6	
15	5.7			10.0	
16	6.1				
17	6.4				
18	7.3				
19	7.6				
20	7.8				
23	8.5				
25	8.8				
26	9.2				
31	9.4				
28	9.7				
29	4.				

See page 144

10-14

<u>2</u>	4
5	5
- .04	+ .08

15-20

$$\begin{array}{r} 6 \\ 58 \\ \hline 6 \\ -10 \end{array}$$

21-27

$$\begin{array}{r} 41 \\ \underline{4} \\ -10 \end{array}$$

28—

$$\begin{array}{r} 0.5 \\ \hline 1 \\ + 0.5 \end{array}$$

all

146
16

12:00

150

Wednesday March 11, 1914.

Scale B
1:45

Measures of Stars in N.S. Region D5.

I 35182

T'

Cupid

Att. Cor. 0.18

G.C.

Polar

pc.1 pc.2 pc.3

pc.1 pc.2

Diff.

5					10.7	10.6	10.65	1.0	-4.16
6					11.6	11.6	11.60	0.0	-4.49
8					12.6	12.5	12.55	0.1	-4.32
9					13.4	13.4	13.40	0.0	-4.57
10	7.6				13.5	13.4	13.45	1.0	-4.43
11	8.6				7.	7.			
12	8.8								
13		9.7	9.7	9.70	0.0	0.6	0		
14		10.4	10.4	10.40	0.0	0.25	0		
15		10.6	10.6	10.60	0.0	0.48	0		
16		11.3	11.3	11.30	0.0	0.13	0		
17		11.4	11.5	11.45	0.1	0.18	0		
18		12.1	12.2	12.15	1.0	-0.09	0		
19		12.4	12.3	12.35	0.1	0.07	0		
20		12.6	12.4	12.50	1.1	0.23	0		
23		13.4	13.4	13.40	0.0	-0.06	0		
25		13.5	13.5	13.50	0.0	0.37	0		
26		14.0	13.9	13.95	0.1	0.38	0		

Star Seq.

pc.1

pc.1

Curv Magn.

Curv Magn.

1	6.596 6.65 1.0	5.9			11.6	11.7	-4.32	8.34
2	6.7 6.70 0.0	5.6			12.6	12.6	-4.42	8.18
3	6.7 6.70 0.0	5.7			12.4	12.4	-4.41	7.99
4	6.6 6.65 1.0	6.5	1.87	8.72	12.6	12.5	-4.42	8.13
5	6.7 6.75 0.0	6.8	1.69	8.84	13.1	13.1	-4.48	8.62
6	6.4 6.50 1.0	6.6			12.5	12.7	-4.42	8.18
7	6.6 6.65 1.0	6.7	1.80	8.75	13.4	13.5	-4.50	8.95

Images on this plate are very faint and not comb. with any scale.

Wednesday March 11, 1914,

Scale R Measures of Stars in H. S. Region D5.
I 35 18 2 } cont.

	sc.1	sc.2	sc.1	Curv Magn.		sc.2	sc.2	Curv Magn.
8	6.7 ^{7.0}	6.95 ^{0.1}	6.6 ^{6.9}	1.80	8.75	134 ^{13.40}	134 ^{0.0}	-4.49 8.91
9	12 ^{7.5}	7.6 ^{0.1}	11.7 ^{7.7}	1.48	9.08	Scratched.		
10	8.4 ^{8.4}	8.25 ^{2.1}	7.8 ^{8.1}	1.19	9.44	±.		
11	7.6 ^{8.7}	7.95 ^{1.0}	7.7 ^{8.0}	1.31	9.26	14.0	-4.51	<u>9.49</u>
12	8.4 ^{8.7}	8.9 ^{sc.2}	8.80 ^{1.1}	0.9 [#]	9.72 [#]			
13	8.8 ^{9.1}	9.4	9.25 ^{1.2}	0.78	10.03			
covered by defect. 14		def.						
15		10.1 ^{10.20}	10.3 ^{sc.2}	0.45	10.65			
we. unit- 16		9.7 ^{9.65}	10.6 ^{1.09}	0.64	10.29			
17		10.4 ^{10.45}	10.5 ^{0.1}	0.39	10.84			
18		10.6 ^{10.60}	10.6 ^{0.0}	0.33 [#]	10.93 [#]			
19		10.6 ^{10.60}	10.6 ^{0.0}	0.33 [#]	10.93 [#]			
20		11.6 ^{11.60}	11.6 ^{0.0}	0.17	11.77			
21		11.8 ^{11.70}	12.6 ^{1.4}	0.16	11.86			
22		12.5 ^{12.45}	12.4 ^{1.0}	0.12	12.57			
23		12.5 ^{12.40}	12.3 ^{0.1}	0.12	12.52			
24		12.3 ^{12.35}	12.4 ^{1.0}	0.12	12.47			
25		12.6 ^{12.55}	12.5 ^{0.1}	0.12	12.67			
26		12.8 ^{12.85}	12.9 ^{0.1}	0.15	13.00			
27		13.2 ^{13.20}	13.2 ^{0.0}	0.22	13.42			
28		13.4 ^{13.35}	13.3 ^{0.1}	0.25 [#]	13.60 [#]			
29		13.5 ^{13.50}	13.5 ^{0.0}	0.29	13.79			
30		13.7 ^{13.60}	13.5 ^{1.1}	0.31	13.91			
" b?"		12.2 ^{12.05}	11.9 ^{2.1}	0.13	12.18			
31		13.9 ^{13.90}	13.9 ^{0.0}	0.39 [#]	14.29 ³⁰			

Wednesday March 25, 1914
 Thursday

Scale 2

Series 202

Lofield

Card

1:10

Anc 4866

8 K

+06

		Central Inn.		magn.
		ac.1	ac.2	
1	5	3.8		
2	6	5.6	4.51	10.11
3	7	5.6	4.51	10.11
4	9	6.5	4.51	11.01
5	10	6.7	4.51	11.21
6	11	6.8	4.51	11.31
7	12	7.5	4.50	12.00
8	13	7.7	4.50	12.20
9	14	8.4	4.55	12.95
10	15	8.5	4.57	13.07
11	16	8.1	4.60	13.30
12	17	8.8 ^{8.80°}	4.62	13.42
13	18	9.6 ^{9.50°}	4.83	14.33
14	19	9.6 ^{9.60°}	4.88	14.48
15	20	10.2 ^{10.25°}	10.3?	

23

α 25 B.

β 26 B.

γ 33

δ B.

ε B.

		Lofield		a ²
		a ¹	Curve magn.	
7.5	7.45 10	0.86	8.81	7.4
8.1	8.75°	0.96	9.71	8.8
8.8	8.80°	0.97	9.77	8.8
9.1	9.70°	1.03	10.83	9.7
9.9	9.902°	1.18	11.08	9.7
10.1	10.00°	1.20	11.20	10.0

5.7	5.65°	0.83	6.48	5.6
5.6	5.60°	0.83	6.43	5.6
6.6	6.60°	0.82	7.42	6.6
5.7	5.85°	0.83	6.68	5.8
5.6	6.65°	0.82	7.47	6.7

Wednesday March 25, 1914

Scale

Series 202

mc 4866

cont.

log p

	pc.	Pis. Comp.		α'	α''
		Curv magn.		δ	\pm
1	5	7.4	0.67 8.07		
2	6	8.9	0.68 9.58		
3	8	9.1	0.69 9.79		
4	9	10.0	0.79		
5	10	9.8	0.79 <u>10.50</u>		
6	11	10.0	.		
7	12				
8	13				
9	14				
10	15				
11	16				
	17				
	18				

α	5.6	0.81	6.41	9.3 9.35 ¹⁰ -2.95	6.40 9.4
β	5.6	0.81	6.41	9.4 9.30 ¹¹ -2.96	6.44 9.2
γ	96.4	0.75	7.15	10.0 10.00 ⁰⁰ -2.85	<u>7.15</u> 10.0
δ	5.8	0.80	6.60	9.7 9.65 ¹⁰ -2.90	6.75 9.6
ϵ	5.7	0.72	7.42	n.s.	n.s.

Wednesday March 25, 1914.

Scale 11

Series 202

mc4867

Pole

	sc.				¹ mc4867 a ¹ mean ² mc4872 mean	a ²	Diff.
5					5.1 5.60 5.60 5.60 00 00	5.5	0.89
6					* 7.2 6.25 6.30 6.28 03 02	6.3	0.83
8					7.4 7.40 7.35 7.38 02 03	7.4	0.85
9		mc4872 mean	Diff.		7.8 7.80 7.60 7.70 10 10	7.8	1.13
10	4.5	4.6	4.55 10	4.47	8.2 8.30 8.25 8.30 05 05	8.4	0.72
11	4.8	5.2	5.00 2 2	4.55	8.6 8.60 8.60 8.60 00 00	8.6	0.95
12	5.5	5.4	5.45 10	4.41	8.8 8.70 9.00 8.85 15 15	8.6	1.01
13	5.8	5.6	5.70 11	4.60	9.4 9.40 9.40 9.40 00 00	9.4	0.90
14	6.2	6.1	6.15 01	4.50	9.6 9.55 9.70 9.62 07 08	9.5	1.03
15	6.4	6.4	6.40 00	4.68	9.8 9.80 9.85 9.82 02 03	9.8	1.23
16	6.8	6.8	6.80 00	4.60	10.0 10.05 10.1 10.08 03 02	10.1?	1.32
17	7.1	7.4	7.25 1 3	4.38			
18	7.6	7.6	7.60 00	4.46			
19	7.8	8.1	7.95 2 1	4.52			
20	8.3	8.2	8.30 8.28 03 02	4.45			
23	8.7	8.8	8.60 8.68 07 08	4.66			
25	9.3	9.2	9.15 9.20 05 05	4.67			
26	9.4	9.4	9.45 9.42 02 03	4.91			
27	9.7	9.6	9.75 9.70 05 05	4.99			
28	±						

* Wrong unit? J.M. April 3, 1914.

Wednesday, March 25, 1914.

Scale U

Series 202

MC 4867

Pole.

Pis. Comp.

		MC 4872			Diff.
		* mean			
5	5.6	4.7	5.65	0.1	0.84
6	6.3	6.4	6.35	1.0	0.76
8	7.6	7.6	7.60	0.0	0.63
9	8.4	8.3	8.35	0.1	0.48
10	8.3	8.4	8.35	1.0	0.67
11	8.8	8.6	8.70	1.1	0.85
12	9.3	9.4	9.35	1.0	0.51
13	9.6	9.4	9.50	1.1	0.80
14	9.8	9.7	9.75	0.1	0.90
15	9.1	10.0	9.85	1.2	1.23
16	n.s.				

a^1 mean	MC 4867	MC 4872	a^2	Diff.
9.4	9.40 ⁰⁰	9.45	9.42 _{02 03}	9.4 - 2.93
9.9	9.95 ¹⁰	10.00	9.98 _{03 02}	10.0 - 2.87
n.s.			n.s.	

* Wrong unit? 5.7? J.M. April 3, 1914.

Wednesday March 25, 1914.

copied

Scale 11.

Series 202

Card

MC 4868

R Triang. (023133) +05.

	$\frac{1}{2} \times 5.5 \times 5.5$	$\frac{1}{2} \times 5.5 \times 5.5$	Central	
Visual Seq.	a	a	B.	Curv Magn
(black ink on pt.)	b	3.2	.	
	c	3.0	.	
	d	3.1	.	
	e	3.6	.	
	f	3.7	.	
	g	4.0	.	
	h	4.4	.	
	i	4.6	4.51	9.11
	j	5.6	4.51	10.11
	k	5.6	4.51	10.11
	l	5.7	4.51	10.21
	m	6.21	4.50	10.70
	n	6.2	4.50	10.70
	o	6.8	4.50	11.30
	p	6.6	4.50	11.10
	q	6.8	4.50	11.30
	r	7.4	4.50	11.90
	s	7.6	4.50	12.10
	t	7.4	4.50	11.90
	u	8.6	4.58	13.18
	v	8.6	4.58	13.18
	w	7.8	4.50	12.30
	x	8.5	4.56	13.06
	y	8.5	4.56	13.06
	z	4.6	4.51	9.11

Wednesday March 25, 1914.

Scale U.

Series 20a.

mc 4868

P.C.

Curre magn.

a	5.8	0.80	6.60
b	6.3	0.77	7.07
c	5.8	0.80	6.60
d	7.4	0.67	8.07
e	6.6	0.73	7.33
f	7.3	0.68	7.98
g	7.5	0.66	8.16
h	7.6	0.66	8.26
k	8.6	0.67	9.27
l	9.6	0.74	10.34
m	9.6	0.74	10.34
n	9.4	0.72	10.12
o	n.s.		
p	1		
q	n.s.		
r			

a'

f

a''

f

C

P.C. are elongated

Wednesday March 25, 1914

Scale U

Series 202.

+07.

Card

mc 4869

Dm Region 2 40 + 40.

	Central m.	Cum. magn.
1	3.6	
2	4.3	
3	4.6	4.51 9.11
4	5.5	4.51 10.01
5	6.1	4.51 10.61
6	6.4	4.51 10.91
7	7.3	4.50 11.80
8	7.6	4.50 12.10
9	7.7	4.50 12.20
10	8.4	4.55 12.95
11	8.1	4.60 13.30
12	8.9	4.64 13.54
13	9.4	4.80 14.20
14	9.6	4.88 14.48
15	9.9	5.00 14.90

Puls. Comp.

	Cum.
1	6.6 0.73 7.33
2	7.1 0.65 8.35
3	8.4 0.66 9.06
4	9.1 0.69 9.79
5	9.7 0.77 10.47
6	± 8

a'	Cum. magn.	a''
6.6 6.50 1.0 0.82	7.32	6.5
7.5 7.55 1.0 0.87	8.42	7.6
7.9 7.85 1.0 0.89	9.74	7.8
8.1 8.95 3.2 0.99	13.94	9.2
9.5 9.55 1.0 1.10	10.65	9.6
9.9? 9.90? a. 1.18	11.08?	9.7
n.s.		

a'	a''
5.6 n.s.	
7.7	
8.4	

Wednesday March 25, 1914.

Scale 2

Series 202.

+ ob.

Card

mc 48678

19 m.

2 40 + 45.0

	Central			a'	Curv Magn.	a''
		Curv	Magn.			
1	37			6.6	6.70 ± 0.82	7.52 6.8
2	38			7.1	7.20 ± 0.83	8.03 7.3
3	43			7.8	7.70 ± 0.88	8.58 8.6
4	48	4.51	9.31	8.6	8.60 0.0 0.93	9.53 8.6
5	55	4.51	10.01	9.3	9.35 ± 0.105	10.40 9.4
6	59	4.51	10.41	9.6	9.65 0.1 1.12	10.77 9.7
7	63	4.50	10.80	9.9	9.90 0.0 1.18	11.08 9.9
8	68	4.50	11.30			
9	74	4.50	11.90			
10	79	4.50	12.40			
11	84	4.55	12.95			
12	85 ^{8.45 10} 84	4.56	13.01			
13	87 ^{8.65 10} 86	4.60	13.25			
14	94 ^{9.40 00} 94	4.80	14.20			
15	96 ^{9.60 00} 96	4.88	14.48			
16	10.1 ^{10.05 10} 10.0					

Pis. Comp.

		Curv Magn.	
1	8.6	0.66	9.26
2	7.4	0.67	8.07
3	7.9	0.65	8.55

P.C. ft

4 ~~7.7~~ ^{7.7} n.s.5 ~~7.7~~ ^{7.7} n.s.

6

7

8

Wednesday March 25, 1914

copied

Scale 2.

Series 202

Card

mc 4891

26 K.

+22.

cc. 1 p
Curve magn.

1 B.

2 3.4

3 4.1

4 4.1

5 6.1

6 6.5

7 7.2

8 7.6

9 8.1

10 8.5

11 8.6

12 9.6

13 9.4

14 9.4

15 9.1

16 H.

4.51 9.21

4.51 9.21

4.51 10.61

4.51 11.01

4.50 11.72

4.50 12.10

4.50 12.60

4.57 13.07

4.58 13.18

4.88 14.48

4.80 14.20

4.80 14.20

4.93 14.63

Chris. Samp.
Curve magn.

1 5.4

2 6.7

3 8.6

4 9.4

5 9.1

6 7.5

7

8

0.72 7.42

0.66 9.26

0.66 10.06

0.67 10.37

a' Curve magn. a'

5.1 5.20 ± 1 0.85 6.05 5.3

6.4 6.50 ± 1 0.82 7.32 6.6

8.5 8.45 ± 0 0.92 9.37 8.4

8.8 9.10 ± 3 1.01 10.11 9.4

9.6 9.60 ± 0 1.11 10.71 9.6

9.7 9.75 ± 0 1.15 10.90 9.8

H. H.

949.45' - 2.93 6.52 9.5

H. H.

why so ft.?

Wednesday March 25, 1914.

Scale 2

Series 202.

MC 4872 Pole.

	central	a^1_{mean} MC 4872	a^2
5		5.6 5.60 00	5.6
6		6.2 6.30 11	6.4
8		7.3 7.35 10	7.4
9		7.6 7.60 00	7.6
10	4.6	8.3 8.25 10	8.2
11	5.2	8.6 8.60 00	8.6
12	5.4	8.8 9.00 22	9.2
13	5.6	9.4 9.40 00	9.4
14	6.1	9.7 9.70 00	9.7
15	6.4	9.9 9.85 10	9.8
16	6.8	10.1 .a	10.1
17	7.4		
18	7.6		
19	8.1		
20	8.3 ^{8.30 00} 8.3		
23	8.6 ^{8.60 00} 8.6		
25	9.1 ^{9.15 10} 9.2		
26	9.4 ^{9.45 01} 9.5		
27	9.8 ^{9.75 01} 9.7		
28	tp.		

P.C. on next page.

See page 154

Wednesday March 25, 1944.

Scale 11

Series 202

MC 4872 cont.

Puls. Comp.

central ini.

a' mean a' + a''

a' MC 4872

a'

5 4.1

9.5 9.45 '0

9.4

6 6.4

10.1 10.00 '1

9.9

8 4.6

9 8.3

10 8.4

11 8.6

12 9.4

13 9.4

14 9.1

15 10.0

See page 155

50
31.45

Thursday March 26, 1914.

Scale 2

9:30

mc 4892

Series 205

					Diff. images.		Diff.
	sci				a' mc 4896 a''		
5					6.3 6.3000 6.30 6.30 000 6.3		0.19
6					6.4 6.4000 6.40 6.40 000 6.4		0.71
8					1.6 7.60 00 7.60 7.60 000 8.2		0.63
9		mc 4796		Diff.	8.2 8.2000 8.35 8.280207 8.2		0.55
10	4.7	4.7	4.70 00	4.32	8.4 8.4501 8.55 8.50 0505 8.5		0.52
11	5.6	5.4	5.50 11	4.05	8.8 8.8000 8.75 8.780203 8.8		0.77
12	5.9	5.7	5.80 11	4.06	9.3 9.3000 9.40 9.350505 9.3		0.51
13	6.5	6.4	6.45 10	3.85	9.6 9.50 11 9.75 9.62 12 13 9.4		0.68
14	6.6	6.6	6.60 00	4.05	9.6 9.6501 9.95 9.80 15 15 9.1		0.85
15	6.8	6.7	6.75 01	4.33	10.0 9.9501 0 9.9502 9.9		1.13
16	7.4	7.4	7.40 00	4.00	5.		
17	7.5	7.6	7.55 10	4.08			
18	7.8	7.9	7.85 01	4.21			
19	8.4	8.4	8.40 00	4.02			
20	8.6 8.6	8.6	8.60 00	4.13			
23	8.9 8.8	8.8	8.80 03 02 52	4.46			
25	9.4 9.5	9.6	9.52 07 08	4.35			
26	9.7 9.7	9.7	9.70 00	4.63			
27	9.9 9.9	10.1	10.00 10 10	4.69			
28							

Thursday, March 26, 1914 -

Scale -

Series 205

mc 4891 cont.
Quic. Comp.

		mc 4796		Diff.	a ¹ mean. mc 4796	a ²	Diff.				
5	58	5.9	5.85	0.1	0.64	9.5	9.55 1.0	9.8	9.88 1.3 1.2	9.6	-3.19
6	6.5	6.4	6.45	0.0	0.66	9.8	9.85 0.1	7.1	9.85 a.	9.9	-2.74
8	7.7	7.7	7.70	0.0	0.53	n.s.					
9	8.4	8.5	8.45	0.1	0.38						
10	8.6	8.6	8.60	0.0	0.42						
11	8.9	9.4	9.15	$\frac{3}{2}$	0.40						
12	9.4	9.6	9.50	1.1	0.36						
13	9.7	10.0	9.85	1.2	0.45						
14	9.7	10.3	10.00	$\frac{3}{2}$	0.65						
15	10.1		10.10	a.	0.98						
16											
17											
18											

Thursday March 26, 1914.

+ 20.

Scale 22

Series 205

mc4892

12 00 + 25.0

(Egeria)

a cloud defect in
glass.

		Curve	magn.		a'	Curve	magn.	a''
1	4.6	4.34	8.94		7.6	7.6000	0.57	8.17
2	5.6	4.11	9.71		8.6	8.6000	0.65	9.25
3	5.7	4.10	9.81		9.3	9.3000	0.73	10.03
4	6.4	4.03	10.43		9.6	9.5000	0.78	10.28
5	6.7	4.02	10.72		10.3	10.2500		10.2
6	1.3	4.02	11.32					
7	1.4	4.02	11.42					
8	7.7	4.04	11.74					
9	8.4	4.16	12.56					
10	8.7	4.25	12.95					
11	9.2	9.2500	4.42					
12	9.4	9.4000	4.47					
13	9.7	9.7000	4.59					
14	9.9	9.9000	4.67					
15	10.0	10.1000	4.75					

Proc. Comp.

		Curve	magn.
1	1.1	0.50	8.20
2	9.1	0.38	9.48
3	9.6	0.41	10.01
4	10.1	0.66	10.76
5			
6			

a'

a''

Thursday March 26, 1914.

Sealer

Series 205

Copied

+13

Card

mc 4893

a₂

12 + 75° alt. +14

Copied

Curve Magn.

a'

Curve Magn.

a₂

1 ³ 7.2 .
 2 ⁴ 8.6 4.35 8.95
 3 3.6 .

6.4 6.40° 0.52 6.92 6.4
 7.3 7.30° 0.56 7.86 7.3
 5.8 6.00²² 0.51 6.51 6.21

on edge

4 .
 5 3.1 .
 6 .

4.4 .
 6.3 6.35¹° 0.52 6.87 6.4
 4.4 .

7a 4.4 .
 8a 4.1 4.32 9.02

8.3 8.05³² 0.60 8.65 7.8
 8.3 8.35¹° 0.62 8.97 8.4

8b 5.4 4.24 9.54

8.6 8.60° 0.65 9.25 8.6

9 5.2 4.29 9.39

8.6 8.60° 0.65 9.25 8.6

10 4.8 4.29 9.09

8.4 8.40° 0.63 9.03 8.4

11 5.3 4.16 9.46

8.1 8.70° 0.67 9.37 8.4^{almost sup.}

12 5.3 4.16 9.46

9.4 9.40° 0.75 10.15 9.4

13 6.4 4.03 10.43

9.6 9.60° 0.80 10.40 9.6

14 6.5 4.02 10.52

9.6 9.60° 0.80 10.40 9.6

15 6.6 4.02 10.62

10.0 9.80²² 0.88 10.68 9.6

16 6.8 4.02 10.82

10.1 10.10²² 1.05 11.15 9.6

17 6.6 4.02 10.62

17a 7.6 4.03 11.63

18 7.6 4.03 11.63

19 8.2 4.11 12.31

20 7.6 4.03 11.63

21 8.0 4.08 12.08

21a 8.3 4.13 12.43

21b 8.6 4.21 12.81

Thursday March 26, 1914.

Scale 2

Series 305-

mc 4893

av

12 + 15" cont.

Curve Magn.

22	8.6		4.21	12.81
23	8.8	^{8.80} 8.8	4.27	13.07
24	9.4	^{9.40} 9.4	4.47	13.87
25	9.4	^{9.40} 9.4	4.47	13.87
26	9.7	^{9.70} 9.7	4.59	<u>14.29</u>
27	7	+		
28				
"b"	8.8 1.9		4.07	11.97

Thursday March 26, 1914-

Scale 22

Series 205 *Leopine*

Mc 4893 cont

+14

Iris Comp.

Curve Magn.

 a' a''

1 6.4 0.62 7.02

10.0

10.1

2 7.2 0.57 7.77

n.s.

n.s.

3 7.1 0.58 7.68

on extreme edge.

4 6.8 0.61 7.41

5 7.6 0.53 8.13

6 7.6 0.53 8.13

7 8.3 0.43 8.73

8 8.6 0.41 9.01

9 8.6 0.41 9.01

10 8.9 0.40 9.10

11 9.4 0.39 9.79

12 9.6 0.41 10.01

13 10.0 0.58 10.5814 10.0 0.58 10.58

15 7.

Thursday March 26, 1914.

Scale 11

Series 205

+13

Card.

* MC 4894

12 20 +10.0

		Curve Magn.	
1	4.7	4.32	9.02
2	5.8	4.09	9.89
3	6.3	4.04	10.34
4	6.6	4.02	10.62
5	7.6	4.04	11.64
6	7.6	4.04	11.64
7	8.3	4.13	12.43
8	8.6	4.21	12.81
9	9.4	4.47	13.87
10	9.6	4.55	14.15
11	9.6	4.55	14.15
12	10.2	4.80	<u>15.00</u>
13	10.2?	4.80	<u>15.00?</u>

a'	Curve Magn.		a''
8.6 8.65"	0.66	9.31	8.1
9.4 9.40"	0.76	10.16	9.4
10.2 10.20"		\bar{f} ft	def?
seen but ft			

Pis. Comp.

	central	Curve Magn.	
1	9.3	0.38	9.68
2	9.5	0.40	9.90
3	9.4	n.s.	
4	9.8?	0.47	<u>10.27</u>
5	n.s.		
6			
7			
8			

 a' a''

* Plate does not show ft. stars.

Thursday March 26, 1914

Scale 2

Series 205

Copied

Card

mc 4895				C7				13 + 15° +17			
Central				a'				a''			
on edge.	1	Curve	Magn.		Curve	Magn.					
	2	4.6	4.34	8.94	t.p.			t.p.			
	3	4.1	4.32	9.02	14 7.50 ¹	0.57	8.07	1.6			
	4	4.2			14 7.40 ⁰⁰	0.57	7.97	1.4			
	5	4.5			16 7.60 ⁰⁰	0.58	8.18	1.6			
	6	4.6	4.34	8.94	8.4 8.40 ⁰⁰	0.63	9.03	8.4			
	7	4.7	4.32	9.02	8.4 8.35 ⁰¹	0.62	8.97	8.3			
	8	5.5	4.12	9.62	8.1 8.70 ⁰⁰	0.66	9.36	8.1			
	9	5.0	4.24	9.24	8.6 8.65 ⁰¹	0.66	9.31	8.1			
	10	5.4	4.14	9.54	9.2 9.20 ⁰⁰	0.71	9.91	9.2			
	11	5.6	4.11	9.71	9.4 9.40 ⁰⁰	0.75	10.15	9.4			
	12	6.2	4.05	10.25	9.6 9.60 ⁰⁰	0.80	10.40	9.6			
	13	6.4	4.03	10.43	9.8 9.85 ⁰¹	0.90	10.75	9.9			
	14	6.5	4.02	10.52	9.9 9.90 ⁰⁰	0.94	10.84	9.9			
	15	6.7	4.02	10.72	10.1 10.15 ⁰¹			10.2?			
	16	6.6	4.02	10.62	f.		f.	f.			
	17	7.4	4.02	11.42							
	18	7.5	4.03	11.53							
	19	7.6	4.04	11.64							
	20	7.6	4.04	11.64							
	21	8.5	4.19	12.69							
	22	8.7 8.75 ¹⁰	4.25	13.00							
	23	8.8 8.85 ⁰¹	4.28	13.13							
	24	9.3 9.35 ¹⁰	4.45	13.80							
	25	9.6 9.50 ¹¹	4.51	14.41							
	26	9.7 9.70 ⁰⁰	4.59	14.29							
	27	9.9 9.90 ⁰⁰	4.67	14.57							

Thursday March 26, 1914

Scale α

Series 205.

Mc 4895

C7

 $13 + 15^\circ$

Quasi. Comp.

Central

 a' a''

edge.

1		Curve Magn.	
2	7.6	0.52	8.12
3	7.8	0.50	8.30
4	7.6	0.52	8.12
5	8.3	0.44	8.74
6	8.4	0.43	8.83
7	8.6	0.41	9.01
8	9.4	0.39	9.79
9	8.8	0.40	9.20
10	9.5 ^{low}	0.40	9.90
11	9.7	0.43	<u>10.13</u>
12	10.1	0.66	<u>10.76</u>
13	7.		
14			
15	n.s.		
16			
17			

174

Thursday, March 25⁶, 1914.

Scale R

2.55

Ins. plate superposed on plain glass plate.

mc 4609

Pole.

P.C.

Diff.	sc.1	sc.2	mc4609	mc4609	mc4609	mean	sc.2	mc4609	mean	Diff.					
1.59	5	4.5 ^{4.8}	5.0	4.9	4.9	4.90	1.00	12.3	12.3	12.40	12.45	12.45	12.40	10.0505	-59.1
0.29	6	6.5 ^{6.8}	6.9	6.8	6.8	6.82	0.100	14.0	14.0	13.95	14.10	14.10	14.04	0.0606	-6.93
0.88 ⁵	8	6.7 ^{7.0}	7.5	7.4	7.6	7.35	4.102	n.s.							
-0.19 ²¹	9	8.6 ^{8.9}	9.1	8.9	9.0	9.02	1.100								
-1.38	10	1	10.4	10.4	10.4	10.40	0.000								
-2.05	11	11.6	11.6	11.6	11.6	11.60	0.000								
-2.52	12	12.3	12.4	12.4	12.4	12.38	1.000								
-2.69	13	12.6	12.65	13.4	13.40	12.99	4.43								
-2.61 ²	14	12.7 ^{12.9}	13.3	13.40	13.30	13.26	3.3								
-2.57	15	13.6 ^{13.6}	13.65	13.65	13.70	13.65	0.0005								
-2.72	16	14.1 ^{14.10}	14.1	14.06	14.15	14.25	14.12	0.2	12.8	12.6					
	17														

2n	5.3 ^{5.6}	
3n	8.4 ^{8.7}	
4n	8.4 ^{8.7}	
5n	9.6	
6n	11.1	
7n	12.4	
8n	13.2	
9n	13.9	
10n	n.s.	
11n	n.s.	
12n		

12.8^{12.70} 12.6

Thursday March 25⁶, 1914

Scale R.

Iss. plate superposed on plain glass.

mc 4609

Pole.

cont.

	mc 2
4a	12.1 ^{12.20 L 1} 12.3
5a	12.4 ^{12.40 00} 12.4
6a	13.5 ^{13.45 10} 13.4
9a	n.s.
10a	

Thursday March 25, 1914⁶

Scale R Iso. plate superposed on mc 4⁶7.

3:20

mc 4609

cont.

P.C.

rc.1 rc.2

Curv.

rc.2 rc.2 Cor

5 4.6^{4.9} 1.78

6 6.3^{6.6} 2.98

8 12^{7.5} 0.55

9 8.8^{9.1 9.15 1.0} 9.2 -0.42

10 10.4 10.4 -1.23

11 11.6 -2.02

12 12.4^{12.40 0.6} 12.4 -2.43

13 12.6^{12.65 0.1} 12.7 -2.52

14 1 13.4^{13.35 0.1} 13.3 -2.65

15 13.9^{13.80 0.1} 13.7 -2.68

16 1

17

2n 4.9^{5.2}

3n 8.4^{8.7}

4n 8.5^{8.8}

5n 1 10.4

6n 10.6

7n 12.4^{12.40 0.6} 12.4

8n 13.3^{13.35 0.1} 13.4

9n 13.9^{13.90 0.1} 13.9

10n n.s.

11n n.s.

4n 11.6

5n 12.4

6n 13.6

9n n.s.

12.6^{12.80 0.0} 12.8

n.

ur. ant.

Thursday March 25⁶ 1914.

Scale A. Inc plate superposed on mc 4446.
mc 4609 Poles.

	20.1	20.2
5	46 ^{4.9}	
6	6.6 ^{6.9}	
8	7.4 ^{7.7}	
9	8.6 ^{8.9} 9.15 ^{3.2}	9.4
10		10.4
11		11.5
12		12.3 ^{12.3} 12.8
13		12.7 ^{12.6}
14		12.8 ^{13.10}
15		13.7 ^{13.65}
16		4.
17		
20	5.3 ^{5.6}	
30	8.4 ^{8.7}	
40	8.4 ^{8.7} 8.55 ^{8.55}	8.4
50		9.1
60		10.7
70		12.4
80		13.4
Extremely faint 90		14.2 [?]
100		15.
110		
40		12.2
50		12.4
60		13.5
90		14.8.

14.69
9.80
4.89
14.33
9.40
4.93
10.30
5.85
4.45

13.87
9.20
4.67

Thursday March 25⁶ 1914.

Scale A.

Is plate superposed on MC 4446.
MC 4609 Poles.

20.1 20.2

5 46^{4.9}

6 66^{6.9}

8 74^{7.7}

9 86^{8.9 9.153} 9.4

10 10.4

11 11.5

12 12.1

13 12.1

14 12.1

15 12.1

16 12.1

17 12.1

20 5.3^{5.6}

30 84^{8.7}

40 8.7^{8.7 8.66} 8.4

50 9.1

60 10.1

70 12.4

80 13.4

Extremely Lt 90 14.3

100 15.5

110 12.3

40 12.3

50 12.4

60 13.5

90 14.5

New Variable near 104
Seq. on MC 698

Measure the 2 sequences on
4 AC plates (or AM)
MC + MD 4665 (twice)
Any other curved MC plate?

Measure Seq. for var. on
2 I plates (long exp. if possible)

Thursday March 25⁶ 1914.

Scale A.

See plate superposed on mc 4446.
mc 4609 Poles.

O.C.

ac.1 ac.2

5 46^{4.9}

6 66^{6.9}

8 74^{7.7}

9 86^{8.9 9.15 3.2} 94

10 104

11 115

12 123 123 5 124
~~12.8~~

13 127 12.65 12.6

14 128 13.10 13.3
13.4

15 137 13.65 13.6

16 4.

17

22 53^{5.6}

32 84^{8.7}

42 84^{8.7 8.55} 84

52 97

62 107

72 124

82 134

Extremely 92 142⁷

102 78.

112

42 12.2

52 124

62 13.5

92 78.

ac.2 ac.2

12.4 12.4

4t. 4t.

12.7 12.7

78.

Thursday March 26, 1914.

Scale R- Iso plate superposed on clear glass plate.

mc 4609

Cont.

P.C.

	sc. 1	sc. 2
5	4.7 ^{5.0}	
6	6.6 ^{6.9}	
8	7.2 ^{7.5}	
9	8.7 ^{9.0 9.15 ± 1}	9.3
10	1	10.4
11		11.6
12		12.4 ^{12.40 0.0}
13		12.6 ^{12.65 0.1}
14		13.4 ^{13.40 0.0}
15		13.7 ^{13.65 1.0}
16		14.0 ^{14.00 0.0}
17		
2n	4.8 ^{5.1}	
3n	8.4 ^{8.7}	8
4n	8.5 ^{8.8}	
5n		10.3
6n		10.6
7n		12.4
8n		13.3
9n		13.9
10n		n.s.
4n		11.8
5n		13.4
6n		13.6
9n		n.s.

sc. 2	sc. 2
12.4 ^{12.40 0.0}	12.4
13.8 ^{13.95 ± 1}	14.1

12.7^{12.70 0.0}

12.7

n.s.

See page 174.

4.10

Friday March 27, 1914

Scale m.

Series 53

9:30

mc # 2921 Ore.

O'R 4, 109, 110, 111

~~bi-circumpolar variable, T. cephei~~

~~not-reduced.~~

✓ ~~208?~~

O'R 4, 117, 121, 124

No

Is any material here to be
entered in b 4? Red ink & for this

pp. 128, 130, 132, 134, AC plates, not copied.
Copied on sheets

~~p. 142. D 1. 25, 150~~

p. 180. U. leuceri. Not reduced.

Series 58 not reduced.

Why?

~~198 + 199 H. cephei 1st reduction~~

~~215 H. cephei Bk.~~

~~216 ..~~

Thursday March 26, 1914.

Scale R- Iso plate superposed on clear glass plate.

me 4609

Cont.

P.C.

	sc.1	sc.2
5	4.7 ^{5.0}	
6	6.6 ^{6.9}	
8	7.2 ^{7.5}	
9	8.7 ^{9.0 9.15 9.21}	9.3
10	1	10.4
11		11.6
12	12.4 ^{12.40 0.0}	12.4
13	12.6 ^{12.65 0.1}	12.7
14	13.4 ^{13.40 0.0}	13.4
15	13.7 ^{13.65 1.0}	13.6
16	14.0 ^{14.00 0.0}	14.0
17		
2n	4.8 ^{5.1}	
3n	8.4 ^{8.7}	8
4n	8.5 ^{8.8}	
5n		10.3
6n		10.6
7n		12.4
8n		13.3
9n		13.9
10n		n.s.
4n		11.8
5n		13.4
6n		13.6
9n		n.s.

sc.2	sc.2
12.4 ^{12.40 0.0}	12.4
13.8 ^{13.95 2.1}	14.1

12.7 ^{12.70 0.0}	12.7
---------------------------	------

n.s.

See page 174.

4/10

Friday March 27, 1914

Scale m.

Series 53

9:30

mc # 2921

Obs.

Obs. Comp.

	rel	rel	rel
5			
6			
8			
9			mc mc
			2926 2932
10	4.6 ^{4.8}		4.8 3.8
11	5.2 ^{5.4}		5.6 3.8
12	5.6 ^{5.7}		5.7 4.0
13	6.2 ^{6.4}		6.4 4.9
14	6.4 ^{6.6 6.60 0.0}		6.60 5.6
15	6.9 ^{7.00 1.1}		7.10 5.4
16	7.5		7.6 6.65
17	7.6		7.7 6.75
18	7.9		8.2 7.7
19	8.4 ^{8.45 0.1}	8.5	8.5 8.4
20	8.6 ^{8.65 0.1}	8.7	8.70 8.60
23	9.4 ^{9.40 0.0}	9.4	9.25 9.00
25	9.6 ^{9.65 0.1}	9.7	9.65 9.55
26	10.0?	9.8	9.80 9.77
27			10.10 9.95

	rel	rel	rel
	4.8 480 0.0		
4.6 4.8		5.10	5.40
5.1 ^{5.65 1.0}	5.6	5.65	6.50
7.40 0.0			
7.4 7.4		7.65	7.60
8.5 ^{8.45 1.0}	8.4	8.35	8.35
8.6 ^{8.65 0.1}	8.7	8.60	8.55
9.4 ^{9.40 0.0}	9.4	9.3	9.1
9.7 ^{9.75 1.0}	9.8	9.7	9.5
10.00 0.0			
10.0 10.0	10.2		9.7
	10.1		10.1
			7

Friday, March 27, 1914.

Scale m.

Series 53

Mo 29 23

U Cancer (1100) 8 20 + 19.2

P.C.

	sc.1	sc.2
a	Q.	
a ²	Q.	
	5.4	
b	2.6	
c	3.5	
d	3.5	
e	4.4	
f	4.4	
g	4.7	
h	5.3	
k	5.4	
l	5.6	5.6
m	5.5	5.1
n	6.2	6.4
o	6.6	6.1
p		7.3
q		7.6
r		8.3
s		8.4
t		8.7
u		8.6
v		9.3
w		9.3
x		9.6
y		9.1
z		10.0
Var		10.2

sc.1 sc.2

48 53

54 ~~sc.2~~ 5.6

1.8

5.4 7.6

8.1 1.8

8.6 8.6

9.3

9.5

1

10.0

10.0

10.0

10.0

10.0

Friday March 21, 1914.

Scale m

Series 53

mc 2926 Pole.

Pis. Comfr.

	pc.1	pc.2	
5			
6			
8			
9			MC2982
10	^{4.8} 4.6		3.8
11	^{5.6} 5.4		3.8
12	^{5.7} 5.3		4.0
13	^{6.4} 6.2		4.9
14	^{6.6 6.60 0.0} 6.4 6.6		5.6
15	^{7.0 7.10 ± 1} 6.8 7.2		5.9
16	7.6	6.65	
17	7.1	6.75	
18	8.2	7.7	
19	8.5	8.4	
20	^{8.70 0.0} 8.7	8.1 8.60	
23	^{9.25 1.0} 9.3	9.2 9.00	
25	^{9.65 0.1} 9.6	9.1 9.55	
26	^{9.80 0.0} 9.8	9.8 9.77	
27	^{10.10 0.0} 10.1	10.1 9.95	

	pc.1	pc.2	
	^{4.9 5.10 ± 2} 4.7 5.3	5.40	
	^{5.6 5.65 0.1} 5.4 5.1	6.50	
	^{7.65 0.1} 7.6 7.5	7.60	
	^{8.35 0.1} 8.4 8.3	8.35	
	^{8.60 0.0} 8.6 8.6	8.55	
	9.3	9.1	
	9.7	9.5	
	10.2	9.7	
	11.5	10.1	
		7.2	

See MC

See page 179.

Friday March 27, 1914.

Scale m.

Series 53.

mc 2927

a3

26 + 15°

B.C.

sc.1 sc.2

sc.1 sc.2

too far from center 1

6.8 1.3

" " " " 2 2

6.6 6.1

3 2.5

7. 1.4

4 2.3

7.0 1.4

5 2.5

6.8 1.3

6 3.5

5 8.1

7 3.4

8.4

8 4.6

8.9

9 4.5

9.2

10 4.3

8.8

11 4.1

9.5

12 5.2

9.8

13 5.3

9.6

14 5.4

9.9

15 5.8

10.0

16 6.3

6.5

n.s.

17 6.4

6.6

18 6.8

6.9

19

7.3

20

7.3

21

7.6

22

7.1

23

8.2

24

8.5

25

8.6

26

8.7

longated. not comp. with scale.

Friday March 27, 1914.

Scale m

Series 53.

mc 2927

a.3 20+75 cont.

oc.2

27	9.3	9.4
28	9.4	9.3
29	9.3	9.4
30	9.7	9.7
31	9.8	9.9
c	8.6	

Friday March 27, 1914 -

Scale m.

Series 53

mc 2929

126 K. 10 17 - 15.1

	sc.1	sc.2
1	2.5	
2	3.4	2.9
3	3.7	
4	4.6	
5	5.2	5.3
6	6.3	6.6
7		7.2
8	6.8	7.3
9		8.3
10	8.4	8.3
11	9.2	8.9
12	9.1	9.3
13	9.6	9.1
14	±	±
15	n.s.	

	sc.1	sc.2
6.7	7.1	
	8.3	8.3
9	9.6	9.4
	9.8	9.7
	9.9	10.0

Friday March 27, 1914.

Scale m.

Series 53.

mc 2928

measured out garden by mistake

X Leonis

O.C.

Visual	Ph _{vis}	sc.1	sc.2
	a	3.1	
	b	3.6	
	c	4.7	
	d	5.5	
b = →	e	5.8	
a =	f	6.2	
d =	g	6.5	6.7
c =	h	6.7	6.7
e =	k		7.6
f =	l	8.5	8.4
g =	m	8.8	9.3
h =	n	9.6	9.4
k =	o	9.9	9.1
	p	9.6	9.6
	q		n.s.
var.		9.8	

sc.1	sc.2
9.7	9.6
9.4	9.4
1	10.0? very faint

Friday March 27, 1914.

Salem-

mc 2932

Series 53.
Orle.

Puis. Comp.

	pc.1	pc.2
5		
6		
8		
9		
10	3.76	3.8
11	3.6	3.8
12	3.8	4.0
13	4.1	4.9
14	5.4	5.6
15	5.9	
16	6.5	6.7 6.65 1.0
17	6.6	6.8 6.75 0.1
18	7.1	
19	8.4	
20	8.8	8.60 2.2
23	9.1	9.00 1.1
25	9.6	9.55 0.1
26	9.7	9.70 0.0
27	9.9	9.95 1.0
28		

	pc.1	pc.2
5.5	5.40	0.1
5.3	5.3	
6.6	6.50	1.2
6.4	6.4	
7.6	7.60	0.0
7.6	7.6	
8.4	8.35	0.1
8.5	8.55	1.0
8.6	8.6	
9.1		
9.5		
9.7		
10.1?		
±		

See page 181

11375

Monday March 29, 1914.

Scale 2

9.30

mc 2973

Gold

Series 54.

P.C.

ac.	mc 2978	Diff.
5		
6		
8		
9	mc 2978	Diff.
10	5.2 5.2 5.20 00	3.82
11	5.6 5.6 5.60 00	3.95
12	5.7 5.7 5.70 00	4.16
13	6.4 6.3 6.35 01	3.95
14	6.6 6.9 6.95 31 4.05	3.90
15	7.4 6.9 7.15 23	3.93
16	7.6 7.4 7.50 11	3.90
17	7.7 7.6 7.65 10	3.98
18	8.3 7.9 8.2 23 22 3.94	
19	8.6 8.6 8.60 00	3.82
20	8.8 8.65 8.75 10 10	3.98
23	9.4 9.4 9.40 00	3.94
25	10.1 9.70 9.90 20 20	3.97
26		10.00 10.00 . 2 4.33
27		
28		
29		

ac.	mc 2978	mean	Diff.
5.9	6.10 2 2	5.90 6.00 10 10	0.49
7.3	7.30 0 0	7.05 7.18 12 13	-0.07
8.4	8.40 0 0	8.30 8.35 05 05	-0.12
8.8	8.75 0 1	8.65 8.70 05 05	0.13
9.3	9.30 0 0	8.85 9.08 22 23	-0.06
9.6		9.6 9.60 0 0	-0.05
9.7		10.0 9.85 1 2	0.01
9.5			

Monday March 29, 1914.

Copied

Scale 2

Series 54.

Mar 29 16

24 Hrs.

+12

	cc.	Curve	Magn.	cc.	cc.	Curve	Magn.
1	4.5	3.84	8.34 ⁴⁷	7.6	7.6	-0.03	7.57 ⁷⁰
2	4.9	3.89	8.79 ⁷²	8.9	8.9	-0.09	8.81 ⁹⁴
3	5.6	3.97	9.57 ⁷⁰	9.4	9.4	-0.07	9.18 ³¹
4	6.3	4.00	10.30 ⁴³	9.8	9.8	0.00	9.95 ¹⁹⁰⁸
5	6.6	4.00	10.60 ⁷³	+	+		
6	7.3	3.98	11.28 ⁴²				
7	8.2	3.96	12.16 ³⁰				
8	8.1	3.96	12.06 ²⁰				
9	8.4	3.96	12.36 ⁵⁰				
10	8.8 ^{880 00}	3.97	12.77 ⁹¹				
11	9.2 ^{930 1}	3.97	13.27 ⁴¹				
12	9.5 ^{945 10}	3.98	13.43 ⁵⁷				
13	10.0 ^{10.10 1}	4.04	14.14 ²⁸				
14	10.3 ^{10.3000}						
15							

Monday March 29, 1914.

Scale H.

Series 54

mc 2911

Pole

P.C.

sc. 1	pc. sc. 2
5	^{5.90 0.0} 5.9 5.9
6	^{7.05 2.1} 7.2 6.9
8	^{8.30 1.1} 8.4 8.2
9	^{8.65 1.0} 8.7 8.6
10 5.2	^{8.85 0.1} 8.8 8.9
11 5.6	9.6
12 5.1	10.0
13 6.3	
14 6.6	
15 6.9	
16 7.4	
17 7.6	
18 7.9	
19 ^{8.60 0.0} 8.6 8.6	
20 ^{8.65 1.0} 8.7 8.6	
23 ^{9.40 0.0} 9.4 9.4	
25 ^{9.70 0.0} 9.7 9.7	
26 ^{10.00 0.0} 10.0 10.0	
27	

See page 187

Monday March 29, 1914.

Scale II

10:10

mc 3103

Series 67.
Dole.

rc.1					
5	1				
6	2				
8	3				
9	4				
10	5	4.9	4.8	4.85	10 4.17
11	5.6	5.4	5.50	11	4.05
12	5.1	5.6	5.65	10	4.21
13	6.3	6.3	6.30	00	4.00
14	6.1	6.6	6.65	10	4.00
15	7.4	6.7	7.05	43	4.03
16	7.5	7.4	7.45	10	3.95
17	7.8	7.6	7.70	11	3.93
18	8.4	8.4	8.20	8.30	10 10 3.76
19	8.6	8.6	8.60	8.60	00 00 3.82
20	8.9	8.9	8.75	8.82	08 07 3.91
23	9.6	9.6	9.45	9.52	08 07 3.82
25	10.1	10.1	9.85	9.98	12 13 3.89
26					

mc 3108		Diff.	
5.1	5.70 00	5.85	5.78 08 07 0.71
6.6	6.50 11	6.55	6.52 02 03 0.59
8.3	8.35 10	8.00	8.18 17 08 0.05
9.2	9.20 00	8.70	8.95 25 25 -0.12
9.4	9.35 01	9.10	9.22 13 12 -0.20
t.p.		9.7	9.50 a -0.15
		10.0	10.00 a -0.14

P.C. large and difficult to compare with Scale.

Monday March 29, 1914 -

Scale U

Series 67.

Copied

mc 3106

54K

+21

Pis. Comp.

Crown Magn.

Crown Magn.

1	3.6	.	.
2	4.3	4.27	8.57
3	5.5	4.11	9.61
4	5.5 5.2	4.03 4.03	9.35 10.23
5	6.3	4.02	10.32
6	6.4	4.01	10.41
7	6.5	4.00	10.50
8	7.6	3.92	11.52
9	7.8	3.89	11.69
10	8.6	3.83	12.43
11	9.4 ^{9.40 0.0}	3.83	13.23
12	9.5 ^{9.55 1.0}	3.84	13.39
13	9.6 ^{9.56 0.1}	3.84	13.39
14	9.9 ^{9.85 1.0}	3.86	13.71

6.8 ^{6.85 0.1}	6.9	0.40	7.25
7.8 ^{8.00 2.2}	8.2	0.09	8.09
9.8 ^{9.80 0.0}	9.8	-0.16	9.64
9.4	7.5		

close to defect
on film } 15

January 16, 1915

Pr.

3	5.4	9.6
4	5.2	9.4
5	6.4	

W

* Assume a mistake of a unit in recording original measure.

Monday March 29, 1914.

Scale 2

Series 67.

mc 3108

Pole

P.C.

rc.

rc.

5

5.8^{5.85 0 1} 5.9

6

6.4^{6.50 2 1} 6.7

8

7.8^{8.00 2 2} 8.2

9

8.1^{8.70 0 0} 8.9

10 4.8

8.9^{9.10 2 2} 9.3

11 5.4

9.7

12 5.6

10.0

13 6.3

14 6.6

15 6.1

16 7.4

17 7.6

18 8.2^{8.20 0 0} 8.219 8.6^{8.60 0 0} 8.620 8.8^{8.75 0 1} 8.723 9.5^{9.45 1 0} 9.425 9.7^{9.85 1 0 2} 10.0

neg a defect.

26 10.1

27

Supage. 190

Monday, March 29, 1914-

Scale 21

Series 226

mc 5153

Bole.

D.R.

				sc.		Diff.
5				6.4 ^{6.35 0.1} 6.3	5.85 6.10 25 25	+0.39
6				6.6 ^{6.60 0.0} 6.6	6.60 6.60 00 00	0.51
8				7.7 ^{7.75 1.0} 7.8	7.65 7.70 05 05	0.53
9				8.5 ^{8.55 1.0} 8.6	8.40 8.59 07 08	0.35
10	4.7	4.8	4.75 1 0 4.27	8.6 ^{8.60 0.0} 8.6	8.60 8.60 00 00	0.42
11	5.1	5.4	5.25 1 2 4.30	9.2	8.8 9.00 2 2	0.55
12	5.6	5.6	5.60 0 0 4.26	9.9 9.4	9.4 9.40 0 0	0.46
13	6.1	6.2	6.15 1 0 4.15	9.9	9.7 9.75 1 1	0.50
14	6.4	6.4	6.40 0 0 4.25			
15	6.6	6.7	6.65 0 1 4.43			
16	7.3	7.3	7.30 0 0 4.10			
17	7.6	7.4	7.50 1 1 4.13			
18	7.8	7.7	7.75 0 1 4.31			
19	8.3 ^{8.65 3 2} 7.8	8.25	8.15 10 10 4.27			
20	8.6 ^{8.60 0.0} 8.6	8.50	8.55 05 05 4.18			
23	8.8 ^{8.80 0.0} 8.8	8.85	8.82 02 03 4.52			
25	9.6 ^{9.60 0.0} 9.6	9.35	9.48 12 13 4.39			
26	9.9 ^{9.85 1.0} 9.8	9.50	9.62 13 12 4.71			
27		n.s.	9.75 9.75 . 2 4.94			

Monday March 29, 1914.

Scale 22

Series 226

Lesfried.

Mc 5154

23 K.

alt. corr. -03

		Curve	Magn.		Curve	Magn.
1	3.5	.		6.7 ^{6.75^{±0}}	0.44	7.19
2	3.6	.		7.4 ^{7.40^{±0}}	0.46	7.86
3	5.1	4.30	9.40	9.5 ^{9.45^{±0}}	0.49	9.94
4	6.4	4.22	10.62	±	7.5.	
5	4.1	4.20	10.90			
w.s. 6	6.4 ^{1.3}	4.19	11.49			
7	11	4.20	11.90			
8	8.1	4.25	12.35			
9	8.6 ^{8.60^{±0}}	4.34	12.94			
10	8.8 ^{8.80^{±0}}	4.38	13.18			
11	9.5 ^{9.45^{±0}}	4.62	14.07			
12	9.1 ^{9.80^{±0}}	4.82	<u>14.62</u>			
13	10.0 ^{10.00^{±0}}	4.94	<u>14.94</u>			
14	n.s.					
15	n.s.					
16	n.s.					

Monday, March 29, 1914-

Scale II

Series 226

Mc 5,159

Dob.

5		5.8 ^{5.85 0.1}
6		6.6 ^{6.60 0.0}
8		7.7 ^{7.65 1.0}
9		8.4 ^{8.40 0.0}
10	4.8	8.6 ^{8.60 0.0}
11	5.4	8.8
12	5.6	9.4
13	6.2	9.7
14	6.4	
15	6.7	
16	7.3	
17	7.4	
18	7.7	
19	8.3 ^{8.25 1.0}	8.2
20	8.5 ^{8.50 0.0}	8.5
23	8.9 ^{8.85 1.0}	8.8
25	9.3 ^{9.35 1.0}	9.4
26	9.5 ^{9.50 0.0}	9.5
27	9.8 ^{9.75 0.1}	9.7?

See page 193

11:25-

Wednesday, April 1, 1914.

Scale U

Series 184

10.07

* MC 4645

Isle

PC

Diff

[illegible]

Residuals

*11 Badly light truck across centre.

Wednesday April 1, 1914.

197

Scale U

Series 184.

Card.

mc 4646

DM. 9 10 + 22.5.

alt. corr. + 20

OC.

		Curv	Magn			Curv	Magn
1	4 2.2	4.42	8.62	7.4	7.35 ^{0.1} 1.3	0.65	8.00
2	4.6	4.43	9.03	8.4	8.40 ^{0.0} 8.4	0.69	9.09
3	5.3	4.45	9.75	9.3	9.07 ^{2.3} 8.8 9.1	0.77	9.84
4	5.7	4.49	10.19	9.4	9.45 ^{0.1} 9.5	0.87	10.32
5	6.4	4.53	10.93	10.2	10.20 ^{0.0} 10.2	1.19	<u>11.39</u>
6	6.6	4.55	11.15				
7	7.6	4.65	12.25				
8	8.2	4.77	12.97				
9	8.6	4.87	13.47				
10	8.8	4.93	13.73				
11	9.2	5.06	14.31				
12	9.4	5.11	14.51				
13	9.6	5.20	14.80				
14	9.7	5.25	<u>14.95</u>				
15	10.1						

Wednesday April 1, 1914.

Scale 2.

Series 184.

Bojard

Card.

mc 4647.

17 K.

act. com. +16

G.C.

		Cum. magn.	
1	4.5 ²	4.42	8.62
2	4.8	4.44	9.24
3	5.4	4.46	9.86
4	6.4	4.53	10.93
5	1.4	4.61	12.01
6	1.3	4.60	11.90
7	1.6	4.65	12.25
8	8.3	4.79	13.09
9	8.6	4.87	13.47
10	8.6	4.87	13.47
11	8.7	4.89	13.59
12	8.6 ^{8.6000}	4.87	13.47
13	8.8 ^{8.7501}	4.90	13.65
14	9.3 ^{9.2510}	5.06	14.31
15	9.6 ^{9.6501}	5.23	14.88
16	10.1 ^{10.1000}	5.45	<u>15.55</u>

		Cum. magn.	
1.7	7.70 ⁰⁰	0.67	8.37
9.2	8.93 ³¹¹	0.75	9.68
9.2	9.30 ¹¹	0.81	10.11
10.1	9.95 ¹²	1.05	<u>11.00</u>
n.s.	n.s.		

Wednesday April 1, 1914.

Copied

Scales

Series 184

Card.

mc 4648

30 K. alt. 22

P.C.

pc.	Curve	Magn.		Curve	Magn.
1 3.1	4.41	8.11	1.3 ^{7.35 1.0}	0.65	8.00
2 4.3	4.42	8.72	8.1 ^{8.15 1.0}	0.68	8.83
3 4.4	4.42	8.82	8.5 ^{8.50 0.0}	0.70	9.20
4 ^{5.15 0.1} 5.2 5.1	4.45	9.60	9.4 ^{9.35 0.1}	0.82	10.17
5 ^{5.95 1.2} 6.1 5.8	4.50	10.45	9.4 ^{9.45 0.1} 9.5	0.86	10.31
6 ^{6.30 1.1} 6.4 6.2	4.52	10.82	9.6	0.92	10.52
7 ^{6.40 0.0} 6.4 6.4	4.53	10.93	±		
8 6.7	4.56	11.26			
9 7.4	4.61	12.01			
10 7.6	4.65	12.25			
11 8.2	4.76	12.96			
12 8.4	4.81	13.21			
13 8.6	4.87	13.47			
14 ^{9.20 0.0} 9.2 9.2	5.04	14.24			
15 ^{9.35 1.0} 9.3 9.4	5.09	14.44			
16 ^{9.50 0.0} 9.5 9.5	5.15	14.65			
17 ^{9.75 1.0} 9.7 9.8	5.27	15.02			
* 18 ^{10.15 1.0} 10.1 10.2					

* Reject no. 18, upon later examination, thought to be a defect.

O. Jan. 23, 1915.

All Images elongated in one direction

200

Wednesday April 1, 1914-

Leopold-

Scale 22

Series 184-

Cards.

mc 4649			D6	11-15° alt. com. -18	P.C.	
Curve Magn.					Curve Magn.	
1	3.1	4.41	8.11		^{6.60 00} 6.6 6.6	0.65 7.25
2	3.5				^{6.55 10} 6.5 6.6	0.65 7.20
3	3.9	4.41	8.31		^{6.75 01} 6.8 6.7	0.64 7.39
4	4.0	4.41	8.41		^{7.30 00} 7.3 7.3	0.66 7.96
5	4.4	4.42	8.82		^{7.55 10} 7.5 7.6	0.66 8.21
6	4.1	4.41	8.51		7.4	0.66 8.06
7	3.9	4.41	8.31		7.4	0.66 8.06
8	4.1	4.43	9.13		8.2	0.68 8.88
9	4.4	4.42	8.82		8.2	0.68 8.88
10	4.6	4.43	9.03		8.3	0.68 8.98
11	4.6	4.43	9.03		8.3	0.68 8.98
12	4.5	4.42	8.92		8.2	0.68 8.88
13	4.1	4.43	9.13		8.6	0.70 9.30
14	4.8	4.44	9.24		8.9	0.74 9.64
15	4.1	4.43	9.13		8.8	0.73 9.53
16	5.4	4.46	9.86		9.3	0.82 10.12
17	5.1	4.48	10.18		9.7	0.95 10.65
18	5.1	4.48	10.18		9.6	0.92 10.52
19	6.3	4.52	10.82		9.7	0.95 10.65
20	6.3	4.52	10.82		f.	f.
21	6.6	4.55	11.15		f.	f.
22	7.2	4.60	11.80		10.4	
23	7.3	4.61	11.91			
24	7.3	4.61	11.91			
25	7.3	4.61	11.91			

Wednesday April 1, 1914.

Scale U

Series 184-

mc 4649

cont.

		Curve	Magn.
26	1.6	4.65	12.25
27	1.6	4.65	12.25
28	1.1	4.67	12.37
29	8.3	4.78	13.08
30	8.4	4.81	13.21
31	8.4	4.81	13.21
32	8.6	4.87	13.47
33	8.5	4.84	13.34
34	8.6	4.87	13.47
35	9.2 ^{9.1500} 9.1	5.02	14.17
36	9.3 ^{9.3510} 9.4	5.09	14.44
37	9.6 ^{9.6000} 9.6	5.21	14.81
38	9.4 ^{9.4000} 9.4	5.11	14.51
39	9.6 ^{9.6500} 9.7	5.23	14.88
40	10.0 [?] 10.0	5.39	<u>15.39</u> ²

Wednesday April 1, 1914.

Scale 2

Series 184.

11.34

mc 4650

Orle.

P.C.

5

6.20 00
6.2 6.2

6

6.60 00
6.6 6.6

8

7.80 00
7.8 7.8

9

8.60 00
8.6 8.6

10 4.8

8.55 00
8.6 8.5

11 5.4

8.7

12 5.5

9.2

13 5.8

9.4

14 6.4

9.7

15 6.6

10.0

16 6.9

ns

17 7.3

18 7.6

19 7.7

20 8.1

23 8.60 00
8.6 8.625 8.80 00
8.8 8.826 9.40 00
9.4 9.427 9.50 00
9.5 9.528 9.75 00
9.7 9.8

29 def

30 F

See page 196

11.40

Wednesday April 1, 1914.

Scale U

Series 184.

Card.

mc 4654

DM Region 11 50 + 22.5.

alt. corr. +20.

		Curve	magn.	B.C.	Curve	magn.
1	3.8	4.41	8.21	7.3 ^{7.30} 1.3 ^{0.00}	0.65	7.85
2	4.5	4.43	8.93	1.9 ^{7.90} 1.9 ^{0.00}	0.67	8.57
3	4.7	4.44	9.14	8.5 ^{8.50} 8.5 ^{0.00}	0.70	9.20
4	5.6	4.47	10.07	9.5 ^{9.50} 9.5 ^{0.00}	0.88	10.38
5	6.3	4.52	10.82	9.7 ^{9.70} 9.7 ^{0.00}	0.95	10.65
6	7.2	4.60	11.80	9.8.		
7	7.6	4.65	12.25			
8	8.4	4.82	13.22			
9	8.6	4.87	13.47			
10	8.6	4.87	13.47			
11	9.4 ^{9.30} 1.1	9.2 ^{5.08}	14.38			
12	9.3 ^{9.35} 1.0	9.4 ^{5.09}	14.44			
13	9.5 ^{9.55} 1.0	9.6 ^{5.18}	14.73			
14	9.5 ^{9.55} 1.0	9.6 ^{5.18}	14.73			
15	9.8 ^{9.85} 0.1	9.9 ^{5.32}	<u>15.17</u> 14.87			

Wednesday April 1, 1914.

Scale U

Series 184

Cand.

MC 4655

DM Region

11 50 + 27.5

alt. core + .21

Curve Magn.

P.C. Curve Magn.

1	3.0		
2	3.1	4.41	8.11
3	4.1	4.43	9.13
4	5.1	4.48	10.18
5	6.1	4.55	11.25
6	7.4	4.61	12.01
7	8.3	4.79	13.09
8	8.5	4.84	13.34
9	8.6	4.87	13.47
10	8.7	4.90	13.60
11	8.8 ^{8.70}	4.90	13.60
12	9.3 ^{9.35}	5.09	14.44
13	9.6 ^{9.60}	5.21	14.81
14	9.7 ^{9.70}	5.25	14.95
15	9.7 ^{9.80}	5.30	15.10

5.9 ^{5.90}	0.65	6.55
7.2 ^{7.20}	0.65	7.85
8.7 ^{8.65}	0.71	9.36
9.7 ^{9.70}	0.95	10.65
n.s?	10.1	

Wednesday April 1, 1914-

Scale U

12.01

mc 4656

Series 184.
Pole

5
6
8
9
10 4.6
11 4.8
12 5.3
13 5.6
14 6.1
15 6.6
16 6.7
17 6.8
18 7.5
19 7.6
20 8.1
23 8.6
25 9.3
26 9.4
27 9.6
28 9.9
29 F
30

P.C.
5.8 ^{5.75 0.1} 5.7
6.5 ^{6.45 1.0} 6.4
7.6 ^{7.60 0.0} 7.6
8.2 ^{8.20 0.0} 8.2
8.4 ^{8.40 0.0} 8.4
8.8
9.2
9.7
9.7

See page 196

12.07

W

206

Thursday, April 2, 1914.

Scale R.

9.56

Iso. plate superposed on Clear Glass plate.

mc 4609

P.C.

sc. 1 sc. 2

5 4.6^{4.9}6 6.5^{6.8}8 7.1^{7.4}9 8.6^{8.9}

10 10.4

11 11.6

12 12.4

13 13.4

14 13.3^{13.30 0.0} 13.315 13.6^{13.65 0.1} 13.716 14.1^{14.15 1.0} 14.2

17

sc. 2

12.4^{12.45 0.1} 12.514.1^{14.10 0.0} 14.1

ms

2n 4.9^{5.2}3n 8.4^{8.7}4n 8.4^{8.7}

5n 10.1

6n 10.6

7n 12.5

8n 13.2

9n 13.2⁹

10n ms

11n

4a 12.4

5a 12.4

6a 13.5

7a

13.25^{1.0}

13.3 13.2

Sutag 174

Thursday, April 2, 1914

207

Scale R

Iso. plate superposed on Mc 4627
Mc 4609

PC

res. res.

5 4.6^{4.9}6 6.6^{6.9}8 7.4^{7.7}9 8.7^{9.0}

10 10.3

11 11.7

12 12.4

13 13.2

14 13.4^{13.40 00} 13.415 13.7^{13.70 00} 13.716 14.3^{14.25 10} 14.2

17

2N 5.1^{5.4}3N 8.5^{8.7}4N 8.7^{9.0}

5N 10.4

6N 11.3

7N 12.4

8N 13.3

9N 13.8

10N ns

4a 12.4

5a 12.4

6a 13.4

9a

res. 2

12.5^{12.45 10} 12.414.1^{14.10 00} 14.112.8^{13.05 2 3} 13.3

See page 174

Thursday, April 2, 1914.

Scale R.

Iso plate superposed on Mc 4446 -
Mc 4609

P.C.

	cc.1	cc.2
5	4.7 ^{5.0}	
6	6.6 ^{6.9}	
8	7.5 ^{7.8}	
9	8.6 ^{8.9}	
10	11.6	10.4 11.6 _{0.5}
11		11.6
12		12.2
13		13.2 ^{13.20 0.0} 13.2 ₁ 13.2 ₁
14	10.4	13.4 ^{13.40 0.0} 13.4 ₁ 13.4 ₁
15		13.6 ^{13.65} 13.7
16		F
17		
22	4.9 ^{5.2}	4.9
32	8.3 ^{8.6}	
42	8.5 ^{8.8}	
52	7.6	9.6
62		11.2
72		12.4
82		13.3
92		13.9
102		
4a		12.2
5a		12.4
6a		13.6
9a		

cc.2
12.4 12.5
F

13.2 13.2

Thursday, April 2, 1914.

209

Scale R. Iso plate superposed on plain glass.

P.C.

	pc.1	pc.2
5	4.6 ^{4.9}	
6	6.5 ^{6.8}	
8	7.3 ^{7.6}	
9	8.7 ^{9.0}	
10		10.4
11		11.6
12		12.4
13		13.3
14		13.4 ^{13.40 0.0}
15		13.7 ^{13.70 0.0}
16		14.3 ^{14.25 1.0}
17		
2n	5.2 ^{5.5}	
3n	8.4 ^{8.7}	
4n	8.6 ^{8.9}	
5n		9.7
6n		10.7
7n		12.4 12.5
8n		12.5 13.4
9n		14.1
10n		
4s		11.9
5s		12.3
6s		12.4 13.5
9s		

	pc.2
	12.4 ^{12.45 0.1}
	12.5
	14.1 ^{14.10 0.0}
	14.1

	13.30 0.0
	13.3
	13.3

See page 174

10.42

W

Tuesday April ⁷~~14~~, 1914.

Scale m.

Measures of H.S. 2 Regions

Dark - Raining

I 3394.

86

11-15

alt. corr. -0.18

Copied

~~1:25~~

Prec. Exp. Images.

P.C.

St. Seq. →

sc.1 sc.2

Curve Magn.

sc.1 sc.2

Curve Magn.

too far from center

1 t.p.

ldg

8.4⁸⁶ 8.4 8.50 11

Rejet

~~too far from center~~

2

d

8.6⁸⁸ 8.6 8.70 11

3

3.6

3.75

3.1

8.8⁹⁰ 8.9 8.95 01

4

4.1

4.20

4.1

8.8⁹⁰ 8.8 8.90 11

5

4.3

4.50

4.5

9.3⁹⁵ 9.4 9.45 10

6

5.2

5.4

5.40 00

3.24 8.64

def. def. def. R

7

4.1

5.1

5.00 00

9.6⁹⁸ 9.4 9.60 22

8

4.9

5.3

5.20 11

9.7⁹⁹ 9.6 9.75 12

9

5.2

5.6

5.50 11

3.24 8.74

9.4⁹⁶ 9.6 9.60 00

10

5.4

5.6

5.60 00

3.25 8.85

9.7⁹⁹ 9.7 9.80 11

11

5.8

5.8

5.90 11

3.28 9.18

9.9¹⁰¹ 10.1 10.10 00

12

5.9

5.8

5.85 10

3.27 9.12

10.1¹⁰³ 10.1 10.20 11

13

6.1

6.4

6.35 10

3.32 9.67

4. 4. 4.

14

6.3

6.4

6.45 10

3.33 9.78

15

6.3

6.4

6.45 10

3.33 9.78

too near defect

16

6.6

R

17

6.8

6.9

6.95 01

3.40 10.35

18

6.7

7.1

7.00 11

3.40 10.40

19

7.6

7.6

7.6 11

3.52 11.12

20

7.6

7.65

7.7 11

3.53 11.18

21

7.7

7.70

7.7 11

3.55 11.25

22

7.9

7.90

7.9 11

3.60 11.50

23

8.2

8.25

8.3 11

3.69 11.94

24

8.6

8.55

8.5 11

3.79 12.34

dr by light.

25

8.5

8.5

8.4 11

3.74 12.19

26

8.6

8.55

8.5 11

3.79 12.34

Tuesday April 7, 1914.

Scale m.

Measures of N. S. Regions cont.

I 33940

D6

11-15°

P.C.

	pc.1	pc.2		Curve Magn.	pc.1	pc.2		mean Curve Magn.
27	8.1	8.1	8.1	8.7000	3.84	12.54	34	.9.4 9.5 9.45 4.09 13.54
28	8.1	8.1	8.8	8.7510	3.85	12.60	35	9.6 def? Reject. 0.
29	9.1	9.1	8.9	9.0011	3.92	12.92	36	tf.
30	9.4	9.4	9.4	9.4000	4.07	13.47		
31		9.4	9.4	9.4000	4.07	13.47		
32		9.4	9.4	9.4000	4.07	13.47		
33		9.2	9.4	9.3011	4.04	13.34		

only R.H.

Polar 5

6

8

	Diff.	Diff.
8.3 ^{8.3510}	8.4	-1.86
8.5 ^{8.4510}	8.4	-1.34

Scratched

		Diff.	Diff.
9	5.8 5.75 0.1		
10	5.6 5.1	4.59	3.27
11	6.3 6.25 1.0	4.65	3.30
12	6.5 6.55 1.0	4.68	3.31
13	6.9 6.90 0.0	4.72	3.40
14	7.0 7.15 2.1	4.75	3.50
15	7.6 7.60 0.0	4.85	3.48
16	7.8 7.80 0.0	4.91	3.60
17	7.9 7.85 1.0	4.92	3.78
18	8.5 8.45 1.0	5.14	3.61
19	8.6 8.60 0.0	5.19	3.82
20	8.1 8.70 0.0	5.23	4.03
23	9.3 9.30 0.0	5.51	4.04
25	9.8 9.75 0.0	5.74	4.12
26	10.0	5.86	4.33

Tuesday April 7, 1914

Scale m-

Measure of S.S. Region

I 33940 cont.

D6 11-15

Increasing Images.

P.C.

Alt. Cu - 0.18

sc.1 sc.2 sc.3

sc.1

Curve Magn
"Reject"

1	.	.	.	.	8.4	8.4
2	.	.	.	.	8.5	8.4
3	3.7 ^{3.9}	4.1 ^{4.0}	4.0 ^{3.8}	Curve Magn.	8.1	8.1
4	4.1 ^{4.1}	4.1 ^{4.0}	.	.	8.1	8.6
5	4.5 ^{4.7}	4.6 ^{4.65}	1.0	.	9.1	9.3
6	4.7 ^{4.9}	5.3 ^{5.70}	2.2	.	9.4	8.9
7	4.6 ^{4.8}	5.3 ^{5.05}	2.3	.	9.3	9.2
8	4.1 ^{4.9}	5.1 ^{5.00}	2.1	.	9.1	9.5
9	4.9 ^{5.1}	5.3 ^{5.20}	1.1	.	9.6	9.5
10	5.3 ^{5.5}	5.6 ^{5.55}	1.0	8.24	8.79	9.6
11	5.5 ^{5.7}	5.6 ^{5.65}	1.0	8.25	8.90	9.6
12	5.6 ^{5.8}	5.7 ^{5.75}	0.1	8.26	9.01	9.9
13	5.9 ^{6.1}	6.3 ^{6.20}	1.1	8.30	9.50	9.9
14	5.8 ^{6.0}	6.1 ^{6.05}	0.1	8.29	9.34	9.9
15	6.3 ^{6.5}	6.4 ^{6.45}	1.0	8.33	9.78	9.9
16	.	.	.	.	.	.
17	6.4 ^{6.6}	6.7 ^{6.65}	0.1	8.35	10.00	.
18	6.6 ^{6.8}	6.8 ^{6.80}	sc.2	8.38	10.18	.
19	7.4 ^{7.40}	7.4 ^{7.40}	1.4	8.48	10.88	.
20	7.5 ^{7.46}	7.3 ^{7.46}	1.3	8.48	10.88	.
21	7.6 ^{7.65}	7.7 ^{7.65}	1.7	8.53	11.18	.
22	8.1 ^{7.95}	7.8 ^{7.95}	1.8	8.61	11.56	.
23	8.2 ^{8.15}	8.1 ^{8.15}	1.8	8.66	11.81	.
24	8.4 ^{8.30}	8.2 ^{8.30}	1.2	8.71	12.01	.
25	8.3 ^{8.30}	8.3 ^{8.30}	1.2	8.71	12.01	.
26	8.4 ^{8.40}	8.4 ^{8.40}	1.2	8.73	12.13	.

Scratches near

too close to defect in film.

Ch. by H.H.

Tuesday April 7, 1914.

213

Scale M.

N.S. Regions

T' Plate

I 33940

cont.

26 11-15

Curve Magn.

21	8.6 8.65 ^{0.1} 8.1	3.81	12.46
28	8.6 8.60 ^{0.0} 8.6	3.80	12.40
29	8.8 8.85 ^{0.1} 8.9	3.87	12.72
30	9.4 9.35 ^{0.1} 9.3	4.06	13.41
31	9.4 9.40 ^{0.0} 9.4	4.07	13.47
32	9.4 9.40 ^{0.0} 9.4	4.07	13.47
33	9.3 9.35 ^{0.1} 9.4	4.06	13.41
34	9.6 9.60 ^{0.0} 9.6	4.14	13.74
35	sup.	.	.
36	f.	f.	f f

Ch. by R.H.

2:47

Wednesday
Thursday April 9, 1914.

Leopold

Scale U

Series 229 (mc 5204-5207)

Card

8:45

mc 5204

35 K.

alt. +12

P.C.

				Curve Magn.
1	B.			5.75 ^{1.0} 5.8 0.69 6.44
2	3.1			7.50 ^{1.1} 7.6 0.87 8.37
3	4.4	4.51	8.91	8.15 ^{3.2} 8.4 1.06 9.21
4	4.6	4.52	9.12	8.60 ^{0.0} 8.6 1.13 9.73
5	4.7	4.53	9.23	8.60 ^{0.0} 8.6 1.13 9.73
6	4.8	4.53	9.33	9.40 ^{0.0} 9.4 1.21 10.61
7	5.5	4.57	10.07	9.55 ^{1.0} 9.6 1.22 10.77
8	6.7	4.70	11.40	
9	6.9	4.71	11.61	
10	7.1	4.75	11.85	
11	7.4	4.80	12.20	
12	7.5	4.82	12.32	
13	7.7	4.87	12.57	
14	8.2	8.05 ^{2.1} 7.9 4.99	13.04	
15	8.2	8.15 ^{0.1} 8.1 5.02	13.17	
16	8.6	8.60 ^{0.0} 8.6 5.20	13.80	
17	8.6	8.75 ^{1.2} 8.9 5.26	14.01	
18	9.2	9.30 ^{1.1} 9.4 5.51	14.81	
19	9.7	9.65 ^{1.0} 9.6 5.68	15.33	

Adopt mean of early and late measures.

Remeasured June 1, 1914

	Cur. Read.	PC	Curve Magn.	Curve Magn.
5	4.8	8.60	9.2	10.50
6	5.3	5.25 ^{0.0}	9.3	12.0
7	5.6	5.6	9.30	10.50

W. Reed

5.6

Thursday April 9, 1914.

Scale U

Series 229.

Corr. fuel.

Card.

mc 5205

60 K

+21

P.C.

	Curve Magn.		Curve Magn.	
1 3.6	.	.	6.4 ^{6.4501} 6.5 ^{0.68}	7.13
2 3.7	.	.	7.4 ^{7.40} 7.4 ^{0.85}	8.25
3 4.2	4.51	8.72	8.6 ^{8.60} 8.6 ^{1.13}	9.73
4 4.7	4.52	9.22	8.6 ^{8.60} 8.6 ^{1.13}	9.73
5 4.8	4.53	9.33	9.1 ^{8.9022} 8.1 ^{1.16}	10.06
6 5.4	4.56	9.96	9.4 ^{9.35} 9.3 ^{1.20}	10.55
7 5.4	4.56	9.96	9.3 ^{9.30} 9.3 ^{1.20}	10.50
8 5.7	4.59	10.29	9.9 ^{9.90} 9.9 ^{1.26}	<u>11.16</u>
9 5.9	4.60	10.50		
10 6.7	4.70	11.40		
11 6.6	4.69	11.29		
12 7.3	4.79	12.09		
13 7.6	4.85	12.45		
14 7.6	4.85	12.45		
15 8.4 ^{8.2521}	8.1 ^{5.05}	13.30		
16 8.5 ^{8.45}	8.4 ^{5.14}	13.59		
17 8.6 ^{8.60}	8.6 ^{5.20}	13.80		
18 8.6 ^{8.70}	8.8 ^{5.23}	13.93		
19 9.6 ^{9.5011}	9.4 ^{5.61}	15.11		

Thursday April 9, 1914.

Scale II

Series 229.

Copied

Card

mc 5206

6 K-

+14

P.C.

	Curr	Magn.
1	4.7	9.23
2	5.1	9.64
3	5.2	9.75
4	5.6	10.18
5	5.8	10.39
6	6.5	11.18
7	6.6	11.29
8	6.7	11.40
9	7.3	12.09
10	7.4	12.20
11	7.5	12.32
12	8.4	13.53
13	8.4 ^{8.4501}	13.59
14	8.6 ^{8.6501}	13.74
15	8.7 ^{8.6510}	13.86
16	9.3 ^{9.0533}	14.44
17	9.7 ^{9.6510}	15.33

	Curr	Magn.
8.6 ^{8.6000}	8.6	1.13
8.7 ^{8.7000}	8.7	1.14
9.2 ^{9.2501}	9.2	1.20
9.3 ^{9.3510}	9.3	1.20
9.4 ^{9.4000}	9.4	1.21
9.8 ^{9.8000}	9.8	1.25
10.0 ^{10.0000}	10.0	1.26

Thursday, April 9, 1914.

Scale U
9.35

mc 5207

Pole.

Series 229.

		Diff.	PC	Diff.
5			5.8 ^{5.8000} 5.8	0.69
6			6.4 ^{6.4501} 6.5	0.66
8			7.4 ^{7.4000} 7.4	0.83
9	Diff.		7.8 ^{7.8000} 7.8	1.03
10	4.6	4.42	8.1 ^{7.9512} 7.8	1.07
11	4.9	4.65	8.4	1.15
12	5.4	4.46	8.7	1.16
13	5.6	4.70	9.4	0.90
14	6.2	4.45	def.	.
15	6.4	4.68	9.4 defective	1.68 image poor
16	6.7	4.70	10.0	1.40
17	6.8	4.83		
18	7.4	4.66		
19	7.6	4.82		
20	7.8	4.93		
23	^{8.4510} 8.5 8.4	4.89		
25	^{8.6000} 8.6 8.6	5.27		
26	^{8.9000} 8.9 8.9	5.43		
27	^{9.2000} 9.2 9.2	5.49		
28	^{9.5501} 9.6 9.5	5.56		
29	^{9.8510} 9.9 9.8	5.81		
30	^{10.0510} 10.1 10.0	5.99		

Reduce with one Pole Plate. See note in Journal

9.44

1914phae.proj.10580