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Observing Book VI

M. E. O'Reilly

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This book has been examined through page 207
by F.C. and Magnitudes of faint stars redetermined.

O'R VI. p. 113.

15 stars selected for centre –
Not copied. Where enter?
No book

p. 125 –
15 stars – Enter where? "

p. 128 " "
p. 130 " "

Sheet 88 C'R. 6, pp. 132–139.
Re-measures of ft. stars, K region.
Not reduced.

Sheet 111 pp. 145–159. Remeasures of ft. stars
K. region, not reduced.

p. 182 Sel Leg. Enter with star images?
No. only on card catalogue

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	pp.
Measures of Mc Series Plates. Series 219	6–18
" 200	23–32, 36–44
" 163	45–51
" " " " " 156	61–68
" " " " " 175 (Pleiades)	79–94
" 175 Measures of Distances	95–100
" " " " " 252	105–115
" " " " " 242	116–130
Remeasures of stars in K Regions.	132–159
Measures of stars in N.S. " I plates.	19–22, 33–35, 69–78, 101–103
Mc Plates measured for Color Index	53–60.
Measures of Mc Series Plates Series 65	160–171.
" 159 " " H " " " 3	172–

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Beginning here, all reductions made using Revised magns

Friday, April 9, 1914.

Scale U

1:45

Series 219.

Mc 5064

96 K.

Oct. 14

		Curve.	Magn.	O.C.	Curve	Magn.
1	4.4	4.66	9.06	8.5 8.5 (8.50 00)	1.15	9.65
2	4.3	4.62	8.92	8.6 8.4 (8.50 11)	1.15	9.65
3	4.6	4.71	9.31	8.9 8.9 (8.90 00)	1.14	10.04
4	4.8	4.77	9.57	9.6 9.6 (9.60 00)	1.22	10.82
5	5.4	4.88	10.28	9.9 9.9 (9.90 00) large	1.32	11.22
6	5.6	4.90	10.50	10.1 ?	1.45	11.55
7	6.3	4.95	11.25			
8	7.4	4.91	12.31			
9	7.4	4.91	12.31			
10	7.8	4.92	12.72			
11	8.4 8.4 (8.40 00)	4.99	1339			
12	8.6 8.6 (8.60 00)	5.02	13.62			
W.S. 13	~~8.4~~ 8.6 8.6 (8.65 10)	5.03	13.68			
14	9.9 9.8 (9.85 10)	5.60	15.45			
15	10.1 9.9 (10.00 11)	5.70	15.70			

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Scale 1.51

Series 219.

MC 5065 Dole

		MC5069	5076			Diff.
5						
6						
8						
9		MC5069	5076			Diff.
10	4.6	4.4	44	4.47	1 1	4.55
11	4.8	4.6	4.6	4.67	1 1	4.88
12	5.1	4.7	4.7	4.83	1 1	5.04
13	5.6	5.4	5.5	5.50	1 0	4.80
14	5.6	5.6	5.7	5.63	0 0 1	5.02
15	6.3	5.8	5.8	5.97	3 2	5.11
16	6.6	6.4	6.4	6.47	1 1	4.93
17	6.7	6.6	6.6	6.63	1 0 0	5.00
18	7.4	7.2	7.2	7.27	1 0 1	4.79
19	7.6	7.5	7.6	7.57	0 1 0	4.85
20	7.9	7.7	7.7	7.77	1 1	4.96
23	8.5	8.4	8.3	8.40	1 0 1	4.94
25	8.7	8.70	8.65	8.67	0 2 0 3 0 2	5.20
26	9.2	9.35	9.15	9.23	0 3 1 2 0 8	5.86
29	9.4	9.40	9.40	9.40	0 0 0	5.29
28	9.7	9.60	9.55	9.62	0 8 0 2 0 7	5.49
29	F	10.00	9.90	9.95	0 5 0 5	5.71

		MC5069	5076			Diff.
5.5	5.4	5.30	5.40	5.38	0 7 0 8 0 2	1.11
5.7	5.8	5.65	5.70	5.70	0 5 0 5 0 0	1.41
7.4	7.4	6.85	7.15	7.13	2 7 2 8 0 2	1.10
7.7	7.7	7.65	7.60	7.65	0 5 0 0 0 5	1.18
7.7	7.8	7.70	7.70	7.72	0 3 0 2 0 2	1.30
defective		8.6	8.4	8.50	1 1 .	1.05
8.7 ~~defective~~		8.6	8.6	8.63	1 0 0	1.23
9.3		9.4	8.8	9.17	1 2 1	1.23
9.5		9.5	9.5	9.50	0 0 0	1.15
9.9		9.6	9.6	9.70	2 1 1	1.38
MS		10.1	9.9	10.00	1 1	1.40

200

W

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MC 5066 16 KS } - Alt. -22
Nova Persei No. 2

			Curve	Magn.	16 KS.	P.C.	Curve	Magn.
16 KS.	1	4.4	4.66	9.06	7.8 7.80 00 7.8	1.18	8.98	
	2	4.21	4.59	8.79	7.9 8.00 1 1 8.1	1.16	9.16	
	3	4.7	4.74	9.44	8.1 8.65 1 0 8.6	1.14	9.79	
	4	4.8	4.77	9.57	8.9 8.85 1 0 8.8	1.13	9.98	
	5	5.6	4.90	10.50	9.5 9.55 1 0 9.6	1.21	10.76	
	6	5.8	4.91	10.71	n.s.			
	7	6.9 6.80 1 1 6.1	4.94	11.74				
	8	6.6 6.65 0 1 6.7	4.95	11.60				
	9	7.3	4.91	12.21				
	10	7.8	4.92	12.72				
	11	8.2 8.05 2 1 7.9	4.95	13.00				
	12	~~8.5~~ 8.45 8.4	4.99	13.44				
	13	8.9 8.90 0 0 8.9	5.09	13.99				
	14	9.4 9.40 0 0 9.4	5.30	14.70				
	15	~~9.8~~ 9.75 0 1 9.7	~~5.53~~	~~15.28~~	Reject, image is p.c. see remark on cover of MC 5174			
Nova Persei No. 2	1	⊙.			6.1 6.05 1 0 6.0	1.26	7.31	
	2	1.21	.		6.3 6.25 1 0 6.2	1.25	7.50	
	3	4.3	4.63	8.93	7.7 7.65 1 0 7.6	1.19	8.84	
	4	5.5	4.89	10.39	9.5 9.55 1 0 9.6	1.21	10.76	
	5	6.4	4.95	11.35	9.6 9.65 0 1 9.7	1.24	~~10.89~~	
	6	7.3	4.92	12.22	~~10.1~~ ?			
	7	7.5	4.91	12.41				
	8	8.3	4.98	13.28				
	9	8.5	5.00	13.50				
	10	8.7	5.04	13.74				
	11	9.3 9.35 1 0 9.4	5.28	14.63				
	12	9.5 9.50 0 0 9.5	5.35	14.86				

			Curve	Magn.
	13	9.7 9.65 1 0 9.6	5.45	15.10
	14	9.6 9.60 0 0 9.6	5.43	15.03
	15	10.1 10.10 0 0 10.1	.	

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Friday April 9, 1917.

Scale 11 Series 819. Copied Card.

Mc 5067 C4 1 +15 Alt +15

		Curve	Magn.
1			
2	B.	.	.
3	1.0	.	.
4	3.4	.	.
4a	3.6	.	.
5	3.1	.	.
6	3.6	.	.
7	3.1	.	.
8	3.1	.	.
9	3.9	4.49	8.39
10	4.1	4.74	9.44
11	4.1	4.74	9.44
12	4.6	4.71	9.31
13	4.8	4.77	9.57
14	5.4	4.38 (8.)	9.78 (10.28)
15	5.1	4.40 (9)	10.60
16	5.6	4.39 (8)	9.99 (10.4)
17	6.3	4.45 (9)	10.75 (1.2)
18	6.4	4.44 (9)	11.64
19	6.1	4.44 (9)	11.64
20	7.4	4.41 (9)	12.81 (.3)
21	7.4	4.41 (9)	12.81 (.3)
22	7.6	4.41 (9)	12.01 (.5)
23	7.6	4.41 (9)	12.01 (.5)
24	8.4	4.48 (9)	12.88 (3.3)
25	8.6	4.52 (5.02)	13.62
25a	8.5	4.50 (5.00)	13.00 (5)

Q.C.	Curve	Magn.
5.2 (5.25 0 1) 5.3	1.26	6.51
5.6 (5.65 0 1) 5.1	1.27	6.92
5.6 (5.60 0 0) 5.6	1.27	6.87
6.3 (6.30 0 0) 6.3	1.25	7.55
6.6 (6.60 0 0) 6.6	1.23	7.83
7.3 (7.30 0 0) 7.3	1.20	8.50
6.8	1.22	8.02
7.4	1.20	8.60
7.5	1.19	8.69
Sup.	.	
8.1	1.14	9.84
8.1	1.14	9.84
8.1	1.14	9.84
9.2	1.16	10.36
9.5	1.20	10.70
9.8	1.29	11.09
9.9	1.32	11.22

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Friday April 9. 1914.

Scale R

Series 19.

Mc 5067 cont C4 Alt. +15

sup. on P.C. 9./25 b	26	sup. 8.65 01		Curve	Magn.
	26	27	8.6 8.7		5.03	13.68
star defective	27 2/a	28	~~9.7~~ 9.00 ± 2 8.8 9.2		5.12	14.12
	27 b	29	9.55 0 ± 9.6 9.5		5.40	14.95
	28	30	9.40 0 0 9.4 9.4		5.30	14.70
	29	31	9.95 0 ± 10.0 9.9		5.68	15.63
					9	12.03
		2	7.1		4.43	~~11.53~~

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MC 5068 75K. Ref. +15

		Curve	Magn.	PC.	Curve	Magn.
1	3.1			6.8 6.75 00 6.7	1.22	7.97
2	3.9	4.49	8.39	7.4 7.40 00 7.4	1.20	8.60
3	4.4	4.66	9.06	8.4 8.40 00 8.4	1.15	9.55
4	4.7	11.74	9.44	8.6 8.60 00 8.6	1.14	9.74
5	5.5	4.89	10.39	9.5 9.50 00 9.5	1.20	10.70
6	6.1	4.93	11.03	9.7	1.25	10.95
7	6.3	4.95	11.25	10.1	1.45	11.55
8	6.6	4.95	11.55			
9	7.3	4.92	12.22			
10	7.3	4.92	12.22			
11	8.3	4.97	13.27			
12	7.4	4.91	12.31			
13	7.9	4.93	12.83			
14	8.6 8.6000 8.6	5.03	13.63			
15	8.6 8.6000 00 8.6	5.03	13.63			
16	8.9 8.8851 0 8.8	5.08	13.93			
17	9.6 9.6000 00 9.6	5.44	15.04			
18	10.0 9.9501 9.9	5.68	15.63			

11. ft. on orig. plate also.

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Scale 2

Series 219.

	Mc5069	Pole.
		Q.C.
5		5.3 5.3
6		5.1 5.6
8		6.8 6.9
9		1.6 7.1
10	4.4	7.1 7.1
11	4.6	8.6
12	4.7	8.6
13	5.4	9.4
14	5.6	9.5
15	5.8	9.6
16	6.4	10.1?
17	6.6	
18	7.2	
19	7.5	
20	7.7	
23	8.4	
25	8.1 8.7	
26	9.4 9.3	
27	9.4 9.4	
28	9.6 9.6	
29	10.0 10.0	
30	7.	

See page 7

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Mc 5071 11 K.

		Curve	Magn.	O.C.	Curve	Magn.
1	B.			4.9 505 1/2 2		
2	3.6			6.5 6.50 00 6.5	1.24	7.74
3	4.5 3	4.62	8.92	7.6 7.65 0 1 7.7	1.18	8.83
4	4.1	4.74	9.44	8.6 8.60 00 8.6	1.14	9.74
5	5.4	4.88	10.28	9.3 9.25 1 0 9.2	1.16	10.41
6	6.1	4.94	11.04	9.6	1.22	10.82
7	6.4	4.95	11.35	10.0	1.40	11.40
8	6.3	4.95	11.25	10.0	1.40	11.40
9	6.6	4.95	11.55	F.		F
10	6.9	4.94	11.54 8			
11	7.6	4.91	12.51			
12	8.2 8.20 00 8.2	4.97	13.17			
13	8.1 8.65 1 0 8.6	5.03	13.68			
14	8.8 8.85 0 1 8.9	5.08	13.93			
15	9.4 9.45 0 1 9.5	5.33	14.78			
16	9.8 9.80 0 0 9.8	5.57	15.37			

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Scale 1" = 1m

Series 219.

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Card.

MC 50 72 R Lyncis 06 53 55 Alt +18

	B.	Curve	Magn.	P.C.	Curve	Magn.
a				5.5 5.45 5.4	1.26	6.71
b	3.3			6.3 6.35 6.4	1.25	7.60
c	close double almost cup.			1.4? 7.40 7.4?	1.20	8.60?
d	3.1			6.7 6.70 6.7	1.23	7.93
e	4.1	4.56	8.66	7.6 7.55 7.5	1.20	8.75
f'	4.4	4.66	9.06	7.6	1.19	8.79
f²	4.7	4.74	9.44	8.3	1.16	9.46
g	4.8	4.77	9.57	8.6	1.14	9.74
h'	5.2	4.84	10.04	8.1	1.14	9.84
h²	5.6	4.90	10.50	9.6	1.22	10.82
k	6.3	4.95	11.25	10.0	1.38	11.38
l	6.21	4.94	11.14	9.9	1.32	11.22
m	6.4	4.95	11.35			
n'	6.6	4.95	11.55			
o'	6.6	4.95	11.55			
o²	7.3	4.92	12.22			
p	8.2 8.2000 8.2	4.97	13.17			
*q	7.7 7.70 7.7	4.92	12.62			
r'	8.6	5.02	13.62			
r²	8.6	5.02	13.62			
s	9.1	5.15	14.25			
t	9.2 9.150 9.1	5.18	14.33			
‡ u	9.4 9.40 9.4	5.30	14.70			
w	9.5 9.45 9.4	5.32	14.77			
N	9.6 9.70 9.8	5.50	15.20			
y	10.3 10.20 10.1					
Var.	4b	4.72	9.32	8.5	1.15	9.65

Remeas. stars Dec. 8. 1914

q	7.7 (sc.2)
r'	8.6
r²	8.1
s	8.9

‡ Dec. of this star has been changed. See note on Ptg. chart and cover of this plate.

"q." * Made independent measure 7.7.78 on Dec. 5, 1914

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Mc 5073 D5 9-15. Alt -19

	B.	Curve	Magn.		Curve	Magn.
1	3.6	.		5.9 6.00 ± 6.1	1.26	7.26
2	3.6	.		6.4 6.40 ° 6.4	1.25	7.65
3	3.5	.		6.4 6.45 ° 6.5	1.24	7.69
4	3.7	.		6.7 6.70 ° 6.7	1.23	7.93
5	3.8	4.45	8.25	7.4 7.40 ° 7.4	1.20	8.60
6	3.7	.	.	7.4 7.35 ° 7.3	1.20	8.55
7	4.0	4.53	8.53	7.5	1.20	8.70
8	3.8	4.45	8.25	7.6	1.19	8.79
9 double	.	.		double.		
10	4.1	4.75	9.45	8.6	1.15	9.75
11	4.6	4.71	9.31	8.4	1.15	9.55
12	4.7	4.75	9.45	8.6	1.15	9.75
13	4.8	4.77	9.57	8.7	1.14	9.84
14	5.4	4.88	10.28	9.4	1.19	10.59
15	5.6	4.90	10.50	9.4	1.19	10.59
16	5.4	4.88	10.28	9.5	1.20	10.70
17	5.6	4.90	10.50	9.	.	
18	5.8	4.91	10.71	9.1	1.26	10.96
19	5.9	4.92	10.82	F.		F.
20	6.7	4.94	11.64			
21	6.7	4.94	11.64			
22	7.3	4.91	12.21			
23	7.4	4.91	12.31			
24	7.4	4.91	12.31			
25	7.6	4.91	12.51			
26	7.7	4.91	12.61			

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Mc 5073 cont. oct -19

			Cuvv	Magn.
27	8.3		4.98	13.28
28	7.8		4.92	12.72
29	8.1		5.04	13.74
30	8.1		5.04	13.74
31	8.8		5.07	13.87
32	9.1		5.15	14.25
33	9.2	9.20 9.2	5.20	14.40
34	9.4	9.40 9.4	5.30	14.70
35	9.7	9.75 9.8	5.55	15.30
36	9.6	9.60 9.6	5.43	15.03
37	9.8	9.80 9.8	5.58	15.38

far as chart goes!!

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Mc 5075 126 K act -ik

		Curve	Magn.		Curve	Magn.
1	3.6			6.2 6.20 6.2	1.26	7.86
2	4.3	4.62	8.92	7.4 7.50 7.6	1.19	8.69
3	4.6	4.72	9.32	8.6 8.60 8.6	1.14	9.74
4	4.7	4.74	9.44	8.8 8.75 8.7	1.13	9.88
5	5.4	4.88	10.28	9.4 9.30 9.2	1.17	10.47
6	6.1	4.94	11.04	10.0 10.00 10.0	1.38	11.38
7	6.4	4.95	11.35			
8	6.4	4.95	11.35			
9	7.4	4.92	12.32			
10	7.6	4.92	12.52			
11	7.8 7.80 7.8	4.92	12.72			
12	8.1 8.10 8.1	4.95	13.05			
13	8.6 8.60 8.6	5.02	13.62			
14	9.7 9.65 9.6	5.45	15.10			
15	9.7 9.70 9.7	5.50	15.20			
~~16~~						
~~17~~						
~~18~~						

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1914phae.proj.10600

Friday April 9, 1914.

Scale M

Series 219.

	MC 5076	C.C.
5		5.4 5.40 00 5.4
6		5.1 5.70 00 5.7
8		8.1 7.15 1 0 7.2
9		7.6 7.60 00 7.6
10	4.4	7.7 7.70 00 7.7
11	4.6	8.4
12	4.1	8.6
13	5.5	8.8
14	5.1	9.5
15	5.8	9.6
16	6.4	9.9
17	~~6.7~~ 6.6 w.s.	
18	7.2	
19	7.6	
20	7.7	
23	8.3	
25	8.6 8.65 0 1 8.7	
26	9.2 9.15 0 1 9.1	
27	9.7 9.40 00 9.4	
28	9.5 9.55 1 0 9.6	
29	9.9 9.90 00 9.9	
30	1.	

See page 7

4.40

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1914phae.proj.10600

Monday April 13, 1914.

Scale m. N.S. Regions D 3
11- I 28190 5-15 N. up. Direc. Images. Copied.

+ 17

Star	Seq.	sc.				Curve	Magn.
	1	3.2	4	.841		.90 H	6.80
	2	t.p.	4a	873		11	6.29
	3	t.p.	5	9.27		08	6.87
	4	3.5 3.7	6	9.05		01	6.54
	5	t.p.	7	8.62		90	6.80
	6	t.p.	8	9.59		70	6.80
	7	t.p.	9	9.59		50	7.00
	8	4.3 4.5 4.3	10	9.70		53	7.37
	9	4.5 4.7 4.6	11	9.70		19	8.26
	10	4.9 5.1 5.2	12	10.14		97	8.68
	11	4.6 4.8 4.6	13	10.47		70	8.80
	12	5.3 5.5	14	10.47		95	9.05
	13	5.4 5.6	(4a	10.58		41	9.59
	14	5.1 5.9 6.2	15	10.80			
	15	5.9 6.1 6.1	16	10.91			
	16	6.5 6.7 6.6					
	17	6.6 6.8 6.7					
	18	6.8 7.0 7.2					
	19	6.9 7.1 7.2					
	20						
	21						
	22						
	23						
	24	8.4 8.3 50 8.3			3.83	12.18	
	25	9.2 9.25 0 9.3			3.74	12.99	
	26	9.4 9.35 0 9.3			3.73	13.08	

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1914phae.proj.10600

Monday April 13, 1914.

Scale m. 11— | H.S. Regions I 28190 | 93 5-15 | N. up. Prec. Images. Cspoid.

Alt. Cor. −0.18

Star Seq.	sc. 1	sc. 2	Curve	Magn.	P.C.	Curve	Magn.
1	3.2	3.4			8.7	−1.90 / ~~−2.11~~	6.80
2	t.p.				8.4 8.40 8.4	−2.11	6.29
3	t.p.				8.5 8.45 8.4	−2.08	6.87
4	3.5	3.7			8.6 8.55 8.5	−2.01	6.54
5	t.p.				8.7 8.70 8.7	−1.90	6.80
6	t.p.				8.8 8.70 8.6	−1.90	6.80
7	t.p.				8.8 8.80 8.8	−1.80	7.00
8	4.3	4.5 4.35 4.2			9.2 9.00 8.8	−1.63	7.37
9	4.5	4.7 4.65 4.6			8.5 9.45 9.4	−1.19	8.26
10	4.9	5.1 5.20 5.3	3.75	8.95	9.1 9.65 9.6	−0.97	8.68
11	4.6	4.8 4.65 4.5			9.7 9.70 9.7	−0.90	8.80
12	5.3	5.5 5.50 5.5	3.77	9.27	9.8 9.80 9.8	−0.75	9.05
13	5.4	5.6 5.65 5.1	3.78	9.43	10.0 10.00 10.0	−0.41	9.59
14	5.1	5.9 6.05 6.2	3.80	9.85			
15	5.9	6.1 6.10 6.1	3.80	9.90			
16	6.5	6.7 6.65 6.6	3.82	10.47			
17	6.6	6.8 6.75 6.7	3.82	10.57			
18	6.8	7.0 7.20 7.4	3.83	11.03			
19	6.9	7.1 7.25 7.4	3.83	11.08			
20		7.6 7.55 7.5	3.84	11.39			
21		7.6 7.65 7.7	3.84	11.49			
22		8.0 7.90 7.8	3.84	11.74			
23		7.9 7.90 7.9	3.84	11.74			
24		8.4 8.35 8.3	3.83	12.18			
25		9.2 9.25 9.3	3.74	12.99			
26		9.4 9.35 9.3	3.73	13.08			

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1914phae.proj.10600

Monday April 13, 1914.

Scale m. N.S. Regions

I 28 190 5-15 cont.

	sc 1	sc 2	Curve	Magn.
27	9.7 9.70 0 0	9.7	3.69	13.39
28	9.5 9.50 0 0	9.5	3.71	13.21
29	9.6 9.70 1	9.8	3.69	13.39
30	↓			F
31				

Solar

	sc 1	sc 2	Diff.	Diff.
5				
6				
8				
9	5.55 5.55 1 0			
10	5.3	5.6	0.94	3.47
11	5.6 5.8 5.75 0 1	5.7	1.36	3.80
12	5.6 5.8 5.85 0 1	5.9	2.38	4.01
13	6.4 6.6 6.55 0 1	6.5	2.28	3.75
14	6.6 6.8 6.75 0 1	6.7	2.27	3.90
15	7.5 7.55 1 0	7.6	2.00	3.53
16	7.5 7.55 1 0	7.6	2.31	3.85
17	7.8 7.85 0 1	7.9	2.45	3.78
18	8.2 8.15 0 1	8.1	2.50	3.91
19	8.6 8.60 0 0	8.6		3.82
21	funk, scratched			
23	9.6 9.65 0 1	9.7		3.69
25	ns			

	sc 2	PC	Diff.
	8.6 8.50 1 1	8.7	- 2.01
	tp	tp	
	9.5 9.50 0 0	9.5	- 1.27
	9.6 9.60 0 0	9.6	- 0.77
	9.7 9.70 0 0	9.7	- 0.68
	10.1 10.10 2 1	F	- 0.55

11.38

11.50

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Monday April 13, 1914.

Scale M. N.S. Regions.

I 28190 5-15 Cont. Corr -0.18

		Sc,2		Curve	Magn.
1				8.4 8.50 1 8.6	-2.05	6.45
2				8.3 8.30 0 0 8.3	-2.19	6.11
3			Curve Magn.	8.4 8.40 0 0 8.4	-2.11	6.29
4	3.6 3.4 B.			8.4 8.50 1 8.6	-2.05	6.45
5				8.7 8.65 1 0 8.6	-1.95	6.70
6				8.7 8.65 1 0 8.6	-1.95	6.70
7				8.7 8.80 1 8.9	-1.81	6.99
8	4.6 4.5 0 1 4.4 4.4			9.2 9.20 0 0 9.2	-1.45	7.75
9	4.5 4.6 0 1 4.3 4.7			9.6 9.60 0 0 9.6	-1.02	8.58
10	5.3 5.2 5 10 5.1 5.2	3.76	9.01	9.6 9.65 0 1 9.7	-0.99	8.66
11	4.7 4.6 5 10 4.5 4.6			9.6 9.60 0 0 9.6	-1.02	8.58
12	5.5 5.4 5 10 5.3 5.4	3.77	9.22	9.7 9.70 0 0 9.7	-0.90	8.80
13	5.6 5.6 0 0 5.4 5.6	3.78	9.38	10.1 10.10 0 0 10.1	.	.
14	6.0 6.1 5 2 1 5.8 6.3	3.80	9.95			
15	6.4 6.3 5 0 1 6.2 6.3	3.80	10.15			
16	6.7 6.6 0 1 6.5 6.5	3.81	10.41			
17	6.6 6.6 5 0 1 6.4 6.7	3.82	10.47			
18	7.2 5 0 1 7.2 7.3	3.83	11.08			
19	7.3 7.2 0 1 7.1	3.83	11.03			
20	7.6 7.5 5 0 1 7.5	3.83	11.38			
21	7.8 7.8 0 0 7.8	3.84	11.64			
22	8.1 8.0 0 1 7.9	3.84	11.84			
23	8.1 8.0 0 1 7.9	3.84	11.84			
24	8.4 8.3 5 0 1 8.3	3.83	12.18			
25	8.6 8.7 5 1 0 8.8	3.79	12.54			
26	9.4 9.4 0 0 9.4	3.72	13.12			

All magnitudes from readings 7 9.5 are very uncertain as the curve depends on one point.

12:15

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Monday April 13, 1914

Scale M U.S. Regions

I 7819. D3 5 – 15.

			Curve	Magn.
		9.60 00		
x7	9.6	9.6	3.70	13.30
		9.60 1 1		
x8	9.5	9.7	3.70	13.30
		9.70 00		
x9	9.7	9.7	3.69	13.39
		10.00 00		
30	10.0	10.0	3.66	13.66

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1914phae.proj.10600

Tuesday April 14, 1914.

Sc. U. Series 200

mc4841 Dyke

			mc4840	~~mc4846~~ Mean.	Diff.	ai	ai'	Diff.
5						5.3 5.35 1 0		
6							5.30 5.32 03 02 5.4	1.17
8						5.7 5.70 0 0		
9							5.15 5.48 28 27 5.7	1.69
10	H.3		4.2	4.25 1 0	4.77	6.6 6.65 0 1		
11	H.6		4.5	4.55 0 1	5.00		6.60 6.62 03 02 6.7	1.61
12	H.9		4.7	4.80 1 1	5.06	6.8 7.00 2 2		
13	H.9		5.0	4.95 1 0	5.35		6.95 6.98 02 03 7.2	1.85
14	5.6		5.6	5.60 0 0	5.05	7.5 7.60 1 1		
15	5.9		5.6	5.75 1 2	5.33		7.40 7.50 10 10 7.7	1.52
16	6.3		6.2	6.25 1 0	5.15	7.6 7.85 2 3		
17	6.5		6.4	6.45 1 0	5.18		7.80 7.82 03 02 8.1	1.73
18	6.7		6.7	6.70 0 0	5.36	8.4 8.40 0 0		
19	7.4		7.4	7.40 0 0	5.02		8.25 8.32 08 07 8.4	1.54
20	7.6		7.4	7.50 1 1	5.23	8.5 8.55 1 0		
23	7.8		7.8	7.80 0 0	5.54		8.60 8.58 03 02 8.6	1.72
25	8.5		8.6	8.55 1 0	5.32	8.7 8.65 1 0		
26	8.6	8.60 0 0	8.7	8.6	8.65 0 0 5.68		8.65 8.65 00 00 8.6	2.00
27	8.7	9.00 3 3	9.1	9.3	9.05 0 1 5.44	9.4 9.40 0 0		
28	9.4	9.40 0 0	9.4	9.4	9.40 0 0 5.71		9.30 9.35 05 05 9.4	1.73
29	9.6	9.60 0 0	9.7	9.6	9.65 0 1 6.01	9.4 9.45 0 1		
30	10.0	10.00 0 0	Df.	10.0	10.00 a. 6.04		9.45 9.45 00 00 9.5	1.95
						9.6 9.60 0 0		
							9.6 9.60 00 00 9.6	2.03
						9.7 9.70 0 0		
							9.95 9.82 12 13 9.7	2.24

P.C. (over)

G.S.

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Tuesday April 14. 1914.

Scale 4

Series 200

MC 4841

Pole.

D.C.

		Mean		a₁		Diff.
5	5.6	Sup.	5.60 a.	J.P.		0.89
6	5.8	5.2	5.50 3 3	Imm.	Elong.	1.61
8	7.2	7.2 7.4	7.20 0 0	N.S.		1.03
9	7.6	7.4 7.6	7.50 1 1			1.33
10	7.7	7.6 7.8	7.65 1 0			1.37
11	8.4	7.8 8.2	8.10 3 3			1.45
12	8.5	8.2 8.7	8.35 1 2			1.51
13	8.8	8.7 8.3	8.75 0 1			1.75
14	9.3	9.3 9.2	9.30 0 0			1.35
15	9.4	9.4 9.5	9.40 0 0			1.68
16	9.7	9.7	9.70 0 0			1.70
17		9.7 t.f.	9.70. a			1.93
18		t.f.				
19						
20						
23						
25						
26						
27						
28						

H.S.

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Tuesday April 14. 1914.

Scale U Series 900. Completed Card.

12:5-5 MC 4842 C 5 9 + 15° +17

		Curve Magn.		Copied Curve Magn.		
1	B.			a' a' 5.4 ?		
2				5.4 6.6 ?		
3	B.			5.4 5.50 ± 1 5.6 Edge	1.69	7.19
4	3.5	4.91	8.41	6.4 6.40 0° 6.4	1.65	8.05
4a	3.8	4.93	8.73	6.6 6.65 0' 6.7	1.64	8.29
5	4.3	4.97	9.27	7.4 7.30 ± 1 7.2	1.64	8.94
6	4.1	4.95	9.05	8.4 7.40 0° 7.4	1.64	9.04
7	3.7	4.92	8.62	def. 7.40.a 7.4	1.64	9.04
8	4.6	4.99	9.59	7.7 7.65 1 0 4.6	1.65	9.30
9	4.6	4.99	9.59	8.3 7.67 7.70 ± 1 lies in 7.8	1.65	9.35
10	4.7	5.00	9.70	8.1 8.25 ± 2 8.4	1.70	9.95
11	4.7	5.00	9.70	8.4 8.40 00 8.4	1.71	10.11
12	5.1	5.04	10.14	8.4 8.45 0' 8.5	1.72	10.17
13	5.4	5.07	10.47	8.6 8.55 0 ± 8.5	1.73	10.28
14	5.4	5.07	10.47	8.38.1 8.70 00 8.7	1.76	10.46
14a	5.5	5.08	10.58	8.9 9.00 ± 1 9.1	1.85	10.85
15	5.1	5.10	10.80	9.6 9.55 0 ± 9.5	2.06	11.61
16	5.8	5.11	10.91	9.3 9.35 ± 1 9.4	1.98	11.33
17	6.4	5.18	11.58	9.6 9.70 ± 1 9.8	2.13	11.83
18	6.5	5.20	11.70	9.8 9.60 ab 9.7	2.09	11.69
19	6.7	5.22	11.92	9.8 9.90 1 1 10.0	2.25	12.15
20	6.7	5.22	11.92	10.0 10.00 a ?	2.31	12.31
20a	7.1	5.28	12.38			
21	7.4	5.33	12.73			
22	7.1	5.37	13.07			
23	7.1	5.37	13.07			
24	7.8	5.39	13.19			

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Tuesday April 14, 1914

Scale R. Series 200 copied

T. MC4842 C5 $9^h+15°$

		Curve	Magn.
25	8.5	5.55	14.05
26	8.5 (8.50 00 8.5)	5.55	14.05
27	8.7 (8.70 00 8.7)	5.60	14.30
28	8.9 (8.90 00 8.9)	5.65	14.55
29	~~8.9~~ 9.5 (9.50 00 9.5)	5.85	15.35
30	10.0 (10.00 00 10.0)	6.05	16.05
31	T.		
32	Prio. Comp.		
1	5.5	0.90	6.40
2	6.4	1.07	7.47
3	6.5	1.09	7.59
4	6.6	1.10	7.70
4a	6.9	1.16	8.06
5	7.4	1.27	8.67
6	7.5	1.29	8.79
7	7.6	1.31	8.91
8	8.4*	1.48	9.88
9	8.3	1.45	9.75
10	8.5	1.50	10.00
11	8.4	1.48	9.88
12	8.6	1.52	10.12
13	8.6	1.52	10.12
14	9.2	1.66	10.86
14a	9.4	1.70	11.10
15	9.6	1.75	11.35
16	9.4	1.70	11.10
17	10.0	1.87	11.87
18	Sup.		
19			

Def. Imagn. Prio. Comp.

a	a² Curve	Magn.
8.9	(8.95 10 9.0)	
9.6	(9.60 00 9.6)	
9.7	(9.70 00 9.7)	
n.s.	n.s.	

* Remeasured. see O Bk 2:16

An image near star 8 probably measured instead of P.C. Independent measure - 7.7 - could not possibly be 8.4. Rejct. H.S.L. April 15, 1915

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1914phae.proj.10600

Tuesday April 14, 1914.

Scale U Series 200 Corrected Card.

Ma 4843 D5 9 - 15° -17 +11

		Curve	Magn.		Curve	Magn.		P.C.	Curve	Magn.
1	Q.			1 5.40 00	169	7.69			092	6.52
				5.4 a 5.4	~~1.67~~	~~6.97~~	5.6		~~1.48~~	~~7.08~~
2	3.6	4.91	8.51	5.8 5.80 5.8	167	7.47			1.01	7.11
					~~1.59~~	~~7.39~~	6.1		~~1.43~~	~~7.53~~
3	Q.			5.6 5.70 5.8 1	167	7.37			1.07	7.47
					~~1.58~~	~~7.28~~	6.4		~~1.43~~	~~7.83~~
4	3.5	4.91	8.41	6.4 6.40 00 6.4	165	8.05			1.11	7.71
					~~1.61~~	~~8.00~~	6.6		~~1.43~~	~~8.03~~
5	3.7	4.92	8.62	6.4 6.45 0 6.5 1	165	8.10			1.14	7.94
					~~1.61~~	~~8.06~~	6.8		~~1.44~~	~~8.24~~
6	3.8	4.92	8.72	6.4 6.55 2 6.7 1	164	8.19			1.12	7.82
					~~1.61~~	~~8.16~~	6.7		~~1.43~~	~~8.13~~
7	3.8	4.92	8.72	6.8 6.75 0 6.9 1	164	8.39			1.26	8.66
					~~1.62~~	~~8.37~~	7.4		~~1.48~~	~~8.88~~
8	3.9	4.93	8.83	6.9 6.90 00 6.9	164	8.54			1.26	8.66
					~~1.64~~	~~8.54~~	7.4		~~1.48~~	~~8.88~~
9	4.1	4.95	9.05	7.4 7.40 00 7.4	164	9.04			1.32	9.02
		~~4.86~~	~~8.96~~		~~1.68~~	~~9.08~~	7.7		~~1.53~~	~~9.23~~
10	4.6	4.99	9.59	7.7 7.65 10 7.6	165	9.30			1.45	9.75
		~~5.21~~	~~9.81~~		~~1.70~~	~~9.35~~	8.3		~~1.69~~	~~9.99~~
11	4.3	4.96	9.26	7.7 7.65 10 7.6	1.65	9.30			1.43	9.63
		~~5.02~~	~~9.32~~		~~1.70~~	~~9.35~~	8.2		~~1.65~~	~~9.85~~
12	4.8	5.02	9.82	7.9 8.10 8 2 8.3 2	168	9.78			1.48	9.88
		~~5.29~~	10.09		~~1.72~~	~~9.82~~	8.4		~~1.73~~	~~10.13~~
13	4.7	5.00	9.70	8.4 8.35 0 1 8.3	170	10.05			1.52	10.12
		~~5.26~~	~~9.96~~		~~1.75~~	~~10.10~~	8.6		~~1.82~~	~~10.42~~
14	4.7	5.00	9.70	8.6 8.55 80 1 8.5	173	10.28			1.53	10.23
		~~5.26~~	~~9.96~~		~~1.79~~	~~10.34~~	8.7		~~1.86~~	~~10.56~~
15	5.4	5.07	10.47	8.9 8.75 1 2 8.6	178	10.53			1.56	10.36
		~~5.34~~	~~10.74~~		~~1.80~~	~~10.55~~	8.8		~~1.91~~	~~10.71~~
16	5.3	5.06	10.36	8.6 8.60 00 8.6	173	10.33			1.59	10.49
		~~5.35~~	~~10.65~~		~~1.79~~	~~10.39~~	8.9		~~1.97~~	~~10.87~~
17	5.5	5.08	10.58	8.7 8.80 1 1 8.9	179	10.59				
		~~5.33~~	~~10.83~~		~~1.81~~	~~10.67~~	9.1			
18	5.6	5.10	10.70	9.2 9.25 0 1 9.3	193	11.18				
		~~5.32~~	~~10.92~~		~~1.89~~	~~11.14~~	Sup.			
19	5.6	5.10	10.70	not comp.						
		~~5.32~~	~~10.92~~				9.4			
20	6.4	5.19	11.59	10.0 10.00 00 10.0	231	12.31				
		5.25	11.65		2.06	12.06				
21	6.4	5.19	11.59							
		~~5.25~~	~~11.65~~							
22	6.7	5.22	11.92							
		~~5.23~~	~~11.93~~							
23	7.2	5.29	12.49							
		~~5.21~~	~~12.41~~							
24	7.1	5.28	12.38							
		~~5.21~~	~~12.31~~							
25	7.4	5.34	12.74							
		~~5.21~~	~~12.61~~							
26	7.4	5.34	12.74							
		5.21	12.61							

Images on this plate are not comparable with Scale.

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Tuesday April 14, 1914.

Scale R Series 200

MC4843 D5 9-15

			Curve	Magn.
27	7.7	7.7	5.38	13.68
			~~5.23~~	~~13.93~~
28	7.4	7.4	5.41	13.31
			~~5.25~~	~~13.15~~
29	8.3	8.1	5.48	13.68
			~~5.31~~	~~13.51~~
30	8.4	8.6	5.55	14.05
			~~5.40~~	~~13.90~~
31	8.3	8.4	5.50	13.85
			~~5.35~~	~~13.70~~
32	8.6	8.7	5.59	14.24
			~~5.45~~	~~14.10~~
33	8.6	8.6	5.57	14.17
			~~5.43~~	~~14.03~~
34	9.2	9.3	5.77	15.02
			~~5.71~~	~~14.96~~
35	9.6	~~8.6~~ 9.5	5.87	15.42
			~~5.85~~	~~15.40~~
36	9.5	9.4	5.82	15.27
			~~5.80~~	~~15.25~~
37	9.5	9.4	5.82	15.27
			~~5.80~~	~~15.25~~

as far as chart is marked.

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1914phae.proj.10600

Tuesday April 14, 1914

Scale 11 Series 200 Cand.

Mc 4944 B4 9 20 +45.0 +23

			Curve	Magn.
	1		Curve	Magn.
edge	2	.		
	3	3.6	4.91	8.51
	4	3.6	4.91	8.51
on edge	5	.		
off plate	6	.		
	7	3.1	4.92	8.62
	8	3.8	4.93	8.73
	9	3.8	4.93	8.73
	10	4.2	4.95	~~9.15~~
	11	4.6	4.99 ~~5.21~~	9.59 ~~9.81~~
	12	4.6	4.99 ~~5.21~~	9.59 ~~9.81~~
	13	4.6	4.99 ~~5.21~~	9.59 ~~9.81~~
	14	4.1	5.00 ~~5.26~~	9.70 ~~9.96~~
	15	4.8	5.02 ~~5.29~~	9.82 ~~10.09~~
	16	5.5	5.08 ~~5.33~~	10.58 ~~10.83~~
	17	5.1	5.10 ~~5.31~~	10.80 ~~11.01~~
	18	5.5	5.08 ~~5.33~~	10.58 ~~10.83~~
	A	5.8	5.11 ~~5.30~~	10.91 ~~11.10~~
	19a	6.3	~~5.28~~	~~11.68~~ 11.48
	20	6.5	5.20 ~~5.24~~	11.70 ~~11.74~~
	21	5.1	5.10 ~~5.31~~	10.80 ~~11.01~~
	22	6.6	5.21 ~~5.23~~	11.81 ~~11.83~~
	23	~~7.2~~ 6.9	5.25 ~~5.21~~	12.15 ~~12.11~~
	24	7.1	5.27 ~~5.21~~	12.38 ~~12.31~~
	25	6.9	5.25 ~~5.21~~	12.15 ~~12.11~~
	26	7.5	5.35 ~~5.22~~	12.85 ~~12.72~~

Copied

a'	a''	Curve	Magn.
	56	1.69 ~~1.58~~	7.29 ~~7.18~~
55	.	1.69 ~~1.58~~	7.19 ~~7.08~~
56	5.60 00 56	1.69 ~~1.58~~	7.29 ~~7.18~~
5.7	5.75 10 5.8	1.67 ~~1.59~~	7.42 ~~7.34~~
t.p.	.		
6.4	6.45 01 6.5	1.64 ~~1.61~~	8.09 ~~8.06~~
6.8	7.10 33 7.4	1.63 ~~1.65~~	8.73 ~~8.75~~
7.1	6.95 12 6.8	1.64 ~~1.64~~	8.59 ~~8.59~~
7.5	7.50 00 7.5	1.64 ~~1.68~~	9.14 ~~9.18~~
7.6	7.65 01 7.7	1.65 ~~1.69~~	9.30 ~~9.34~~
8.2	8.25 01 8.3	1.70 ~~1.74~~	9.95 ~~9.99~~
7.7	7.75 10 7.8	1.65 ~~1.70~~	9.40 ~~9.45~~
8.4	8.40 00 8.4	1.72 ~~1.76~~	10.12 ~~10.16~~
8.5	8.45 10 8.4	1.73 ~~1.77~~	10.18 ~~10.22~~
8.6	8.55 01 8.5	1.73 ~~1.80~~	10.28 ~~10.34~~
9.1	9.10 09 9.1	1.88 ~~1.85~~	10.98 ~~10.95~~
8.6	8.65 01 8.7	1.75 ~~1.80~~	10.40 ~~10.46~~
9.3	9.30 00 9.3	1.94 ~~1.89~~	11.24 ~~11.19~~
9.1	9.70 00 9.7	1.99 ~~1.96~~	~~11.39~~ ~~11.66~~
9.3	9.35 10 9.4	1.98 ~~1.90~~	11.33 ~~11.25~~
9.7	9.65 10 9.6	2.10 ~~1.95~~	11.75 ~~11.60~~
10.0	t	2.31 ~~2.06~~	12.31 ~~12.06~~
10.0		2.31 ~~2.06~~	12.31 ~~12.06~~

P.C.	Curve	Magn.
56	0.92 1.48	6.42 ~~7.08~~
.	.	
6.1	1.01 ~~1.43~~	7.11 ~~7.53~~
6.3	1.05 ~~1.43~~	7.35 ~~7.73~~
.		
.		
6.8	1.14 ~~1.44~~	7.94 ~~8.24~~
7.4	1.27 ~~1.49~~	8.67 ~~8.89~~
7.4	1.27 ~~1.49~~	8.67 ~~8.89~~
7.6	1.31 ~~1.50~~	8.91 ~~9.10~~
7.9	1.37 ~~1.56~~	9.27 ~~9.46~~
8.4	1.48 ~~1.73~~	9.88 ~~10.13~~
8.4	1.48 ~~1.73~~	9.88 ~~10.13~~
8.6	1.52 ~~1.81~~	10.12 ~~10.41~~
8.5	1.50 ~~1.77~~	10.00 ~~10.27~~
8.7	1.54 ~~1.85~~	10.24 ~~10.55~~
8.6	1.52 ~~1.81~~	10.12 * ~~10.41~~
9.4	.	
9.6	.	
9.7	.	
9.8	.	
9.4	? pos	
9.9	.	
f		

n.s.

* Re-examined by D. Wrong image. Measured star near the companion, latter not measured. Nov. 16, 1914.

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Tuesday April 14. 1914.

Scale R Series 200

MC 4844 cont.

			Corr Magn.	
27	7			
28	7.8		5.39	13.19
29	7.6		5.36	12.96
30	8.4		5.52	13.92
31	8.6		5.57	14.17
32	8.8	9.3 (9.00 2 31) 8.9	5.69	14.69
33	9.4	9.40 0 0 9.4	5.81	15.21
34	9.5	9.45 10 9.4	5.83	15.28
35	9.4	9.40 0 0 9.4	5.81	15.21
36	9.5	9.45 10 9.4	5.81	15.26
37	9.9	9.85 10 9.8	5.99	15.84

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Tuesday April 14, 1914.

Scale U Series 100 Card.

Mc4845- 9 20 +30.0 +22

		Curve	Magn.	a' a²	Curve	Magn.	O.C.
1	3.8	4.93	8.73	6.7 6.7000	1.64	8.34	6.8
2	4.5	4.99	9.49	7.6 7.6000	1.65	9.25	7.6
3	4.7	5.00	9.70	8.4 8.3501	1.61	9.96	8.5
4	5.6	5.10	10.70	9.4 8.1 9.0542	1.86	10.91	9.5
5	6.6	5.21	11.81	10.0 9.6 9.8022	2.18	11.98	1.
6	6.7	5.23	11.93	10.0 10.0000	2.31	12.31	1.
6a	7.4	5.34	12.74				
7	7.6	5.36	12.96				
8	7.8	5.39	13.19				
9	8.4	5.52	13.92				
10	8.5-	5.54	14.04				
11	8.5 8.5000 8.5	5.54	14.04				
12	8.1 8.65 10 8.6	5.58	14.23				
13	9.1 9.25 1/2 9.7	5.76	15.01				
14	9.4 9.45 01 9.5	5.82	15.27				
15-	9.7 9.65 10 9.6	5.91	15.56				

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Tuesday April 14, 1914.

Scale K

Series 200

MC 4846

		a¹	a²	P.C.
5		5.30 1 1		
		5.4	5.2	Sup.
6		5.15 1 0		
		5.1	5.2	5.2
8		6.6000		
		6.6	6.6	7.2
9		6.95 1 2		
		7.1	6.8	7.4
10	4.2	7.40 0 0		
		7.4	7.4	7.6
11	4.5	7.80 1 1		
		7.9	7.7	7.8
12	4.7	8.25 1 2		
		8.1	8.4	8.2
13	5.0	8.6000		
		8.6	8.6	8.7
14	5.6	8.65 1 0		
		8.7	8.6	9.3
15	5.6	9.30 1 1		
		9.2	9.4	9.4
16	6.2	9.45 1 0		
		9.5	9.4	9.7
17	6.4	9.6	9.6	9.7
18	6.7	9.95 0 1		
		10.0	9.9	9.9
19	7.4			
20	7.4			
23	7.8			
25	8.6			
26	8.7			
27	9.1			
28	9.4			
29	9.7			
30	Def.			

See page 34

See page 23

4:05

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1914phae.proj.10600

Wednesday April 15, 1914.

Scale m. H.S. Regions

9:40 I 28186 Preceding Images. D 2 Cpeid.

Alt. Corr. -0.18

		sc 1	sc 2		Curve	Magn.	O.C. sc 2			Curve	Magn.
	1	3.0	8.2	3.2	.	.	8.1	8.6	8.65 10	-1.26	7.39
	2	3.4	8.6	3.6	.	.	8.7	8.1	8.70 00	-1.24	7.46
too far from c.	3	.	.	.	.	.	8.6	8.1	8.65 01	-1.26	7.39
	4	3.7	3.9	3.9	.	.	9.4	9.4	9.40 00	-0.99	8.41
	5	tf.			.	.	clouds def.				
	6	3.8	4.0 sc 2 4.4	4.20 2 2	.	.	9.6	9.6	9.60 00	-0.86	8.74
	7	4.5	4.7 5.3	5.00 3 3	3.84	8.84	9.6	9.6	9.60 00	-0.86	8.74
poor	8	tf.	4.6?	4.6?	3.92	8.52? q	9.8	9.1	9.75 01	-0.77	8.98
	9	5.3	5.5 5.6	5.55 1 0	3.75	9.30	9.1	9.6	9.65 10	-0.84	8.81
	10	4.9	5.1 5.5	5.30 2 2	3.78	9.08	10.1	9.9	10.00 11	.	~~10.00~~
poor	11	5.5	5.7 5.9 poor	5.80 1 1	3.71	9.51 q					
	12	5.6	5.8 6.2	6.00 2 2	3.67	9.67					
	13	6.4	6.6 6.6	6.60 00	3.60	10.20					
	14	6.6	6.8 7.2	7.00 2 2	3.57	10.57					
	15	7.35	1 0 1.3 ~~7.35~~ sc 2	1.4	3.55	10.90					
	16	7.40	00 1.4	1.4	3.55	10.95					
	17	7.60	00 1.6	1.6	3.55	11.15					
near bit star	17a										
	18	8.40	00 8.4	8.4	3.64	12.04 R					
	19	8.25	0 1 8.2	8.3	3.61	11.86					
	20	8.45	1 0 8.5	8.4	3.64	12.09					
	21	8.65	1 0 8.7	8.6	3.68	12.33					
	22	8.90	1 2 8.7	9.1	3.73	12.63					
	23	9.00	1 1 9.1	8.9	3.75	12.75					
	24	9.50	00 9.5	9.5	3.86	13.36					
	25	9.60	00 9.6	9.6	3.88	13.48					
	26	9.80	00 9.8	9.8	3.93	13.73	ch by Rgt.				
	27	F	F	F	F	F					

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Wednesday April 15 1914

Scale M. N.S. Regions.

± 28186 D2 3-15 Cont.

27					
28					
29				P.C.	
30	sc.1	sc.2			Diff.
5				nearly sup.	
6				8.4 8.4000 8.4	- 1.29
8				9.3 9.35±0 9.4	- 1.12
9			Diff.	9.6 9.60 00 9.6	- 0.77
10	5.1 5.3	5.4	5.35±0 3.77	t.p.	t.p.
11	5.6 5.8	5.1	5.75 0± 3.80	n.s.	n.s.
12	5.8 6.0	5.9	5.95 0± 3.91		
13	6.5 6.7	6.1	6.70 00 3.60		
14		7.2	7.30±1 7.4 3.35		
15		7.6	7.60 00 7.6 3.48		
16		7.6	7.70±1 7.8 3.70		
17		8.3	8.10 2± 7.9 3.53		
18		8.6	8.55 0± 8.5 3.51		
19		8.1	8.7000 8.1 3.72		
20		8.9	8.95±0 9.0 3.78		
23		9.4	9.50±0 9.6 3.84		
25		9.9	9.95±0 10.0 3.92		
26		n.s.	n.s.		

P.C. faint on both eye's.

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Wednesday April 15, 1914

Scale m. N.P. Regions

I 28186 cont.

Following Images. Att. low-dis

	pc.1	pc.1		Curve	Magn.	G.C.	pc.2		Curve	Magn.
1	2.9	3.1	2.805.10	.	.	8.1	8.6	8.65 10	-1.26	7.39
2	2.8	3.0	3.203.4 3.20 ±2	.	.	8.9	8.1	8.80 11	-1.20	7.60
3	t.p.	.	.	.	.	8.1	8.6	8.65 10	-1.26	7.39
4	t.p.	.	.	.	.	9.2	9.1	9.15 01	-1.10	8.05
5	t.p.	.	.	.	.	8.9	9.3	9.10 ±2	-1.11	7.99
6	3.8	4.0	pc.2 4.1 4.05 01	.	.	9.6	9.6	9.60 00	-0.86	8.74
7	4.2	4.4	5.1 4.75 43	3.89	8.64	9.1	9.7	9.70 00	-0.70	8.90 / 9.00
8	3.9	4.1	4.5 4.30 22	.	.	9.1	9.5	9.60 11	-0.86	8.74
9	4.7	4.9	5.4 5.15 ±2	3.81	8.96	9.6	9.9	9.65 01	-0.84	8.81
10	5.1	5.3	5.5 5.40 ⊥1	3.77	9.17	9.8	9.7	9.75 01	-0.76	8.99
11	5.6	5.8	5.1 5.75 01	3.72	9.47	10.0?	10.1	10.05 ?1	.	.
12	5.7	5.9	5.9 5.90 00	3.69	9.59					
13	6.4	6.6	6.4 6.50 ⊥1	3.61	10.11					
14	6.6	6.8	6.8 6.80 00	3.58	10.38					
15		7.5	7.45 10 7.4	3.55	11.00					
16		7.3	7.35 ⊥0 7.4	3.55	10.90					
17		7.5	7.45 10 7.4	3.55	11.00					
17a		7.6	7.65 01 7.7	3.56	11.21					
18		7.7	7.75 ⊥0 7.8	3.56	11.31					
19		8.4	8.35 01 8.3	3.63	11.98					
20		8.3	8.35 ⊥0 8.4	3.63	11.98					
21		8.6	8.60 00 8.6	3.66	12.26					
22		8.6	8.65 01 8.7	3.67	12.32					
23		8.7	8.80 ⊥1 8.9	3.71	12.51					
24		9.3	9.20 i⊥ 9.1	3.79	12.99					
25		9.6	9.65 01 9.7	3.89	13.54					
26		9.1	9.70 00 9.7	3.90	13.60					
27		±	∓		∓					

do by Ast.

10.41

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Thursday April 15, 1914.

Scale 22 1.79

Series 900

mc 4846 Pole.

			mc. 4852	Mean	Diff.
5	1				
6	2				
8	3				
9	4				
10	5	4.8	4.2	4.30	1.1 4.72
11	6	4.5	4.4	4.45	1.0 5.10
12	7	4.7	4.5	4.60	1.1 5.26
13	8	4.8	4.8	4.80	0.0 5.50
14	9	5.5	5.4	5.45	1.0 5.20
15	10	5.7	5.7	5.70	0.0 5.38
16	11	6.2	6.2	6.20	0.0 5.20
17	12	6.3	6.3	6.30	0.0 5.33
18	13	6.8	6.6	6.70	1.1 5.36
19	14	6.4	7.2	7.30	1.1 5.12
20	15	7.6	7.4	7.50	1.1 5.23
23	16	8.0	8.3	8.15	2.1 5.19
25	17	8.6 8.5	8.5	8.52	03 02 5.36
26	18	8.7 8.7	8.7	8.70	0.0 0.0 5.63
27	1	9.3 9.1	9.1	9.15	05 05 5.54
28		9.4 9.4	9.4	9.40	0.0 0.0 5.71
29		9.8 9.8	9.6	9.70	1.0 1.0 5.96
30		F	7		

a	a'	mc. 4852	Mean		Diff.
5.3	5.5	5.15	5.28	12	13 1.21
5.4	5.7	5.60	5.58	03	02 1.53
6.4	6.6	6.55	6.52	02	03 1.71
6.7	7.4	7.30	7.05	25	25 1.78
7.3	7.4	7.45	7.40	05	05 1.62
7.6	7.9	dy.	7.75	a	1.80
4p	8.4	8.35	8.38	02	03 1.48
8.4	8.6	8.50	8.50	00	00 1.80
8.6	9.3	8.70	8.82	13	12 1.83
9.3	9.4	9.25	9.30	05	05 1.78
9.4	9.6	9.45	9.48	02	03 1.92
9.7	9.7	9.65	9.68	02	03 1.95
9.7	10.0	10.00	9.92	07	08 2.14
F					

1.37

W

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Thursday April 16, 1914.

Scale A. Series 200

Mc 4846 cont Ares

C.C.

		mc 4852	mean	Diff.
5	sup.	4.9	4.90 . a	1.59
6	5.7	5.6	5.65 i o	1.46
8	6.7	6.7	6.70 o o	1.53
9	7.5	7.4	7.45 i o	1.38
10	7.6	sup.	7.60 a .	1.42
11	8.2	8.1	8.15 o i	1.40
12	8.3	8.4	8.35 i o	1.51
13	8.7	8.6	8.65 i o	1.65
14	9.1	9.2	9.15 i o	1.50
15	9.4	9.4	9.40 oo	1.68
16	9.7	9.5	9.60 i i	1.80
17	9.7	9.7	9.70 o o	1.93
18	F	7?		
19				

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Thursday April 16, 1914.

Scale K Series 300 Card.

Mc 4847 9 38 +15.2 Alt. Corr. +17

			Curve	Magn.	a'	a''	Curve	Magn.	O.C. Curve	O.C. Magn.
1	3.3									
2	4.6		5.23	9.83	6.4	6.40 00	1.61	8.01	6.5	1.43 7.93
3	4.6		5.23	9.83	7.5	7.55 0	1.69	9.24	7.1	1.53 9.23
4	5.4		5.34	10.74	7.1	7.70 00	1.70	9.40	8.4	1.73 10.13
5	6.4		5.25	11.65	8.6	8.60 00	1.79	10.39	8.1	1.87 10.57
6	7.2		5.21	12.41	9.6	9.55 0	1.94	11.49	9.5	.
7	7.4		5.21	12.61	10.1	10.05 0	2.09	12.14	9.8	.
8	7.6		5.22	12.82					n.s.	
9	8.4		5.37	13.77						
10	8.6		5.43	14.03						
11	8.8	8.75 0 8.7	5.49	14.24						
12	9.1	9.20 1 9.3	5.69	14.89						
13	9.4	9.40 00 9.4	5.78	15.18						
14	9.4	9.40 00 9.4	5.78	15.18						
15	9.6	9.55 0 9.5	5.86	15.41						

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1914phae.proj.10600

Thursday, April 16, 1914.

Scale U. Series 200. Card

Mc 4848 10 00 +15.0 Alt. corr. +17

D.C.

		Curve	Magn.	d' a'	Curve	Magn.		Curve	Magn.
1	3.1	.		6.4 6.4 (6.4000)	1.61	8.01		6.4	1.43 7.83
2	3.6	.		6.7 6.6 (6.6510)	1.62	8.27		6.8	1.43 8.23
3	3.8	.		7.5 7.5 (7.5000)	1.69	9.19		7.8	1.55 9.35
4	5.4	5.34	10.74	8.6 8.7 (8.6501)	1.80	10.45		8.6	1.82 10.42
5	6.1	5.28	11.38	9.4 9.4 (9.4000)	1.91	11.31		9.5-	.
6	6.4	5.25	11.65	9.7 9.6 (9.6510)	1.95	11.60		9.7	.
7	7.4	5.21	12.61	↓ ↓				↓ n.s.	
8	7.6	5.23	12.83						
9	8.2	5.31	13.51						
10	8.6	5.43	14.03						
11	8.7 8.8 (8.7510)	5.49	14.24						
12	9.4 9.3 (9.3501)	5.75	15.10						
13	9.4 9.4 (9.4000)	5.77	15.17						
14	9.4 9.5- (9.4501)	5.78	15.23						
15-	9.7 9.6 (9.6510)	5.90	15.55						

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See p. 42

Skipped by mistake

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See P. 42.

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Thursday, April 16, 1914.

Scale. Series 200 Copied Card

Mc 4851 C6 1.1 +15° +17

Copied P.C.

		Curve	Magn.		a	a'	Curve	Magn.		53	Curve	Magn.
	1	B.			5.0	5.1	1.57	6.62		5.3	1.50	6.80
Off plate.	2	.										
	3	3.4	.		5.4	5.6	1.58	7.08		5.8	1.45	7.25
	4	3.5	.		5.7	5.7	1.59	7.29		5.8	1.45	7.25
	5	3.5	.		5.4	5.4	1.58	6.98		6.3	1.43	7.73
	6	3.7	.		6.4	6.3	1.61	7.96		6.4	1.43	7.83
	7	3.7	.		6.4	6.6	1.60	8.10		7.1	1.47	8.67
	8	3.6	.		6.1	6.3	1.60	7.80		6.8	1.44	8 7.24
	9	3.9	.		6.6	6.7	1.62	8.27		6.9	1.44	8.34
	10	3.8	.		6.6	6.8	1.62	8.32		7.3	1.48	8.78
10a		4.3	5.02	9.32	7.3	7.3	1.68	8.98		7.4	1.48	8.88
	11	4.4	~~5.09~~	9.49	7.5	7.6	1.69	9.24		7.6	1.50	9.10
	12	4.2	~~5.22~~ 4.94	9.14	7.4	7.4	1.68	9.08		7.7	1.53	9.23
	13	4.6	5.23	9.83	7.6	7.8	1.70	9.40		8.3	1.69	9.99
	14	4.8	5.29	10.09	8.1	8.3	1.74	9.94		8.4	1.74	10.14
	15	4.7	5.26	9.96	8.4	8.4	1.76	10.16		8.6	1.82	10.42
	16	5.4	5.34	10.74	8.6	8.7	1.88	10.45		9.2	.	
	17	5.4	5.34	10.74	8.1	8.7	1.81	10.51		lap.	.	
	18	5.6	5.33	10.93	9.4	8.9	1.87	11.02		9.4	.	
	19	5.7	5.31	11.01	8.9	9.1	1.84	10.84		9.4	.	
	20	5.7	5.31	11.01	8.7	9.1	1.82	10.72		9.4	.	
	21	5.9	5.29	11.19	9.1	9.1	1.85	10.95		9.6	poor	
	22	6.1	5.28	11.38	9.5	9.6	1.93	11.48		9.1	.	
	23	6.5	5.23	11.73	9.7	9.1	1.97	11.67		1.		
	24	6.8	5.22	12.02	10.1	10.0	2.09	12.14				
	25	6.9	5.21	12.11								
	26	7.4	5.21	12.61								

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Thursday April 16, 1914.

Scale U Series 700.

Mc 4851 cont. C6 11+15°

			Curve	Magn.
27	7.6		5.23	12.83
28	7.7		5.24	12.94
29	7.6		5.23	12.83
29a	7.7		5.24	12.94
30	8.4	8.5011	5.37	13.77
30a	8.6	8.4	5.40	13.90
31	8.7	8.6510 8.6	5.46	14.11
32	8.6	8.6000 8.6	5.43	14.03
33	9.1	9.1000 9.1	5.65	14.75
34	9.4	9.4000 9.4	5.78	15.18
35	9.6	9.6501 9.1	5.90	15.55
36	10.0	10.0000 10.0	6.10	16.10

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Thursday April 16, 1914.

Scale 11 Series 900

Mc 4852. Pole –

		a'	a''	D.C.
5		5.2	5.1	.49
6		~~5.5~~	5.6	5.6
8		6.5	6.6	6.1
9		7.2	7.4	1.4
10	4.2	7.4	7.5	sup.
11	4.4	tip. def.		8.1
12	4.5	8.3	8.4	8.4
13	4.8	8.4	8.6	8.6
14	5.4	8.7	8.7	9.2
15	5.7	9.3	9.2	9.4
16	6.2	9.5	9.4	9.5
17	6.3	9.6	9.7	9.7
18	6.6	10.0	10.0	?
19	7.2			
20	7.4			
23	~~7.5~~ 8.3			
25	8.5			
26	8.7			
27	9.1			
28	9.4			
29	9.6			
30	9.7			

See pages, 36 + 37

3:30

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1914phae.proj.10600

Friday April 24. 1914.

Scale 11 — Mc 43 11 — Series 163. Plate 136 Kalt — 24

Corrected Card

Pb.

				Curve	Magn.
1	5	4.7		4.61	9.31
2	6	4.8		4.62	9.42
3	8	5.7		4.71	10.41
4	9	6.2		4.78	10.98
5	10	6.8		4.87	11.67
6	11	7.4		4.96	12.36
7	12	7.6		4.99	12.59
8	13	7.9		5.06	12.96
9	14	8.4		5.19	13.59
10	15	8.8		5.32	14.12
11	16	9.2	9.00 2 2 8.8	5.40	14.40
12	17	9.4	9.30 1 1 9.2	5.52	14.82
13	18	9.4	9.35 0 1 9.3	5.36	14.71
14	19	9.8	9.70 1 1 9.6	5.72	15.42
15	20	10.1	10.05 10.0	5.93	15.98
	23				
	25				
	26				
	27				
	28				
	29				

L. E. L.

		Curve	
7.70 00			
7.7 7.7		0.84	8.54
7.75 01			
7.8 7.7		0.85	8.60
~~8.90 5 5~~	9.40 00	+1.28	10.68
9.4 8.5 *		~~1.08~~	~~9.98~~
8.90 5 5	9.40 00	1.28	10.68
9.4 8.5 *		1.08	9.98

JH

Remeasured June 28, 1914. Error of a unit in both cases.

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1914phae.proj.10600

Friday April 24, 1914

Scale U. Series 163

M.D. 4312 Pole

		mc 4316	mean	Diff.
5				
6				
8				
9		mc 4316	mean	Diff.
10	4.6	4.6	4.60 00	4.42
11	4.8	4.8	4.80 00	4.75
12	5.4	5.4	5.40 00	4.46
13	5.6	5.6	5.60 00	4.70
14	5.9	5.8	5.85 1 0	4.80
15	6.4	6.3	6.35 0 1	4.73
16	6.6	6.4	6.50 1 1	4.90
17	6.8	6.7	6.75 0 1	4.98
18	7.4	6.7	7.05 4 3	5.01
19	7.6	7.4	7.60 1 1	4.92
20	7.7	7.6	7.65 1 0	5.08
23	8.4	8.4	8.40 0 0	4.94
25	8.6	8.60	8.60 0 0	5.27
26	8.8 (8.80 00)	8.8	8.85	8.82 02 03	5.51
27	9.4 (9.35 1 0)	9.4	9.40	9.38 03 02	5.31
28	9.6 (9.60 00)	9.6	9.45	9.52 08 01	5.59
29	9.8 (9.80 00)	9.8	9.85	9.82 02 03	5.84
G.E.D.	30	10.1 (10.10 00)	10.17	10.10 a.	5.94

P. D.	mc 4316	mean	Diff.
5.8 (5.80 00)	5.8	5.80	5.80 00 00	0.69
6.4 (6.40 00)	6.4	6.40	6.40 00 00	0.71
7.5 (7.50 00)	7.5	7.45	7.48 02 03	0.78
7.8 (7.80 00)	7.8	7.85	7.82 02 03	1.01 0.98
8.3 (8.20 1 1)	8.1	8.20	8.20 00 00	0.82
8.6		8.5	8.65 0 1	1.00
8.8		8.7	8.75 0 1	1.11
9.3		9.4	9.35 1 0	0.95
9.4		9.5	9.45 0 1	1.20
9.7		Def.	9.70 a.	1.38 .28
9.6		9.7	9.65 0 1	1.75

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Friday April 24, 1914.

Scale 11 — Series 163 — Card

Mc 4313 — D11 — 21 − 15° Aft. corr. −22

Copied.

		Curve	Magn.	
1	Q	.		
2	3 4.6	4.56	8.16	
3	3 4.5	.		
4	3.6	4.56	8.16	
5	3.7	4.56	8.26	
6	3.3	.		
7	3.8	4.56	8.36	
8	3.7	4.56	8.26	
9	4.2	4.58	8.78	
10	4.0	4.57	8.57	
11	4.4	4.59	8.99	
12	4.4	4.59	8.99	
13	4.5	4.60	9.10	
14	4.7	4.62	9.32	
15	5.4	4.69	10.09	
16	5.3	4.67	9.97	
17	5.4	4.69	10.09	
18	5.5	4.70	10.20	
19	5.6	4.71	10.31	
20	5.7	4.72	10.42	
21	5.7	4.72	10.42	
22	5.8	4.73	10.53	
23	6.1	4.78	10.88	
24	5.7	4.72	10.42	
25	6.4	4.81	11.21	
26	6.4	4.81	11.21	

QC.

	Curve	Magn.	
6.5 6.5 (6.50 00)	0.56	0.70	7.20
6.8 6.9 (6.85 01)	0.54	0.72	7.57
6.6 6.8 (6.70 11)	0.55	0.71	7.41
6.8 6.8 (6.80 00)	0.54	0.72	7.52
6.9 7.0 (6.95 10)	0.53	0.73	7.68
6.8	0.54	0.72	7.52
7.4	0.54	0.79	8.19
7.1	0.52	0.76	7.86
7.4	0.54	0.79	8.19
7.6	0.56	0.82	8.42
7.7	0.57	0.85	8.55
8.2	0.67	0.93	9.13
8.4	0.71	0.96	9.36
8.6	0.75	1.02	9.62
8.9	0.83	1.09	9.99
9.1	0.88	1.15	10.25
9.3	0.93	1.23	10.53
9.4	0.97	1.28	10.68
9.4	0.97	1.28	10.68
9.4	0.97	1.28	10.68
9.6	1.02	1.39	10.99
9.7	1.05	1.45	10.15
9.7	1.05	1.45	11.15
9.7	1.05	1.45	11.15
9.9	1.10	1.58	11.48
9.9	1.10	1.58	11.48

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Friday April 24, 1914.

Scale K Series 163. copied Card.

MC 4313 cont. 21 – 15° alt. corr. – 22

		Curve	Magn.
27	6.8	4.87	11.67
28	6.8	4.87	11.67
29	7.4	4.96	12.36
30	7.6	4.99	12.59
31	7.8	5.03	12.83
32	7.9	5.05	12.95
33	7.9	5.05	12.95
34	8.4	5.18	13.58
35	8.6	5.25	13.85
36	8.6	5.25	13.85
37	8.8	5.32	14.12
38	9.2 9.16 0 1 9.1	5.47	14.62
39	9.1 9.15 1 0 9.2	5.47	14.62
40	9.6 9.50 1 1 9.4	5.63	15.13
41	9.6 9.600 0 9.6		
42	~~9.7~~ WS. 100 10.00000 10.0	5.68	15.28
43	~~9.5~~ 10.0 10.05001 10.1	5.93	15.98
44			
45			

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Friday April 24, 1914

Scale K Series 163. Copied Card.

MC 4314. 137 K alt cm -23

		Curve	Magn.	P.C.	Curve	Magn.
1	4.4	4.59	8.99	7.7 7.70 00 7.1	0.85	8.55
2	4.7	4.62	9.32	8.6 8.60 00 8.6	1.02	9.62
3	5.3	4.67	9.97	9.4 9.35 01 9.3	1.25	10.60
4	5.1	4.72	10.42	9.6 9.60 00 9.1	1.42	11.07
5	5.9	4.74	10.64	10.0 10.00 00 10.0	1.66	11.66
6	6.6	4.84	11.44			
7	6.8	4.87	11.67			
8	6.9	4.88	11.78			
9	7.5	4.98	12.48			
10	8.6	5.25 4.9	13.85			
11	8.4 8.4 00 8.4	5.19	13.59			
12	9.2 8.9 33 20 8.7 8.9	5.37	14.30			
13	9.4 9.25 21 9.1	5.50	14.75			
14	9.4 9.40 00 9.4	5.69	14.9 15.89			
15	9.7 9.70 00 9.7	5.73	15.43			

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Friday April 24, 1914.

Scale 4

Series 163.

Mc 4316 Pole.

		P.	b.
5			5.8 5.8
6			6.3 6.5
8			7.4 7.5
9			7.9 7.8
10	4.6		8.2 8.2
11	4.8		8.5
12	5.4		8.7
13	5.6		9.4
14	5.8		9.5
15	6.3		Def.
16	6.4		9.7
17	6.7		
18	6.7		
19	7.4		
20	7.6		
23	8.4		
25	8.6 8.6		
26	8.9 8.8		
27	9.4 9.4		
28	9.4 9.5		
29	9.9 9.8		
30	4 4		

5.80 00
6.40 1
7.45 01
7.85 10
8.20
8.60 00
8.85 10
9.40 00
9.45 01
9.85 10

9.6 d.

See page 46

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1914phae.proj.10600

Friday April 24, 1914

Series 163

Copied Card

m. b. H317 89 K. alt. corr. +11

		Corr	mag.
1	4.2	4.58	8.78
2	4.6	4.60	9.20
3	5.5	4.70	10.20
4	5.9	4.74	10.64
5	6.4	4.81	11.21
6	7.3	4.94	12.24
7	7.6	4.99	12.59
8	8.4	5.19	13.59
9	8.4	5.19	13.59
10	8.7	5.28	13.98
11	8.8 8.85 01 8.9	5.34	14.19
12	9.4 9.35 01 9.3	5.56	14.91
13	9.4 9.40 00 9.4	5.59	14.99
14	9.5 9.45 10 9.4	5.61	15.06
15	9.7 9.85 1 2 10.0	5.82	15.67

9.6d

			Corr	mag.
7.3	7.35 10	7.4	0.79	8.14
8.2	8.26 01	8.3	0.94	9.19
9.3	9.35 10	9.4	1.25	10.60
9.5	9.45 10	9.4	1.30	10.75
9.6	9.60 00	9.6	1.39	10.99

71 f

12.31

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Saturday April 25, 1914.

Scale R.

		Mc 4692		Pole.		
					P	b.
		sc.1	sc.2			
	5	B			9.8	
	6	2.6			12.4	
	7	3.1			11.5	
	8	4.4			12.4	
	9	6.4			13.4	
	10	6.4			13.5	
	11	7.4			13.4	
	12	7.6			n.d.	
	13	8.6	9.2		n.d.	9.2
	14	8.9	10.3			10.3
	15		10.1			
	16		10.6			
	17		10.9			
	18		12.8			
	19		12.96			
	20		12.9			
	21		13.2			
	22		13.4			
	23		13.6			
	24		13.8			
	25		14.0			
+87	15	4.3			12.4	
+88	80	4.5			D.	
	86	5.8			13.4	
	115	6.7			13.7	

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Saturday April 25, 1914.

Scale R.

	Mc 4692	cont.	Pole	
			P.	b.
2v	1.6		9.5	
3v	3.4		11.4	
4v	5.2		12.5	
5v	5.6		12.8	
6v	6.4			
7v	7.7			
8v	9.4	9.4		
9v		10.4		
10v		12.4		
11v		12.4		
12r		13.4		
12a				
4a	7.6		Fl	
5a	7.7			
6a		9.5		
9a		h.d.		
+87 12	4.2		12.2	
+88 2	5.2		12.4	
+88 90	6.5		13.5	
88 105	5.4		12.7	
a'	8.8		Fl	
av		11.3		
b		10.6		
c		12.3		
d		11.3		
e		12.8		
f		12.4		

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Saturday April 25, 1914.

Scale R

	Nb. 4692	Pole
g	12.4	
h	13.8	
i		
j		
k	14.0	
l	13.8	
m	13.5	

G.C.D.
11.45

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Monday, April 27, 1914.

Scale R. Iso. plate. Yellow screen.

9.35 MC 5277 Gale

		P.C.	
	sc.1 sc.2	sc.2	
5	1.7	10.6	10.6
6	3.6	11.4	11.4
near edge. 7	t.p.	11.6	11.6
8	6.3	~~11.6~~ 12.9	w.s. 12.6
9	7.6	12.9	12.8
10	8.2 8.4	13.6	13.6
11	9.4	13.7	
12	9.4 9.6	13.7	
13	10.4	n.s.	
14	10.1		
15	11.5		
16	11.6		
17	11.7		
18	12.5		
19	12.7		
20	13.2 12.8		
21	13.3 13.3		
22	13.7 13.4		
def? 23	~~13.4?~~ def?		
24	13.8 13.9		
25	14.0 14.0		
+87° 15	6.2	12.6	
+88° 80	t.p.	13.5	
86	t.p.	13.3	
115	8.4 8.6	13.3? not comp.	

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1914phae.proj.10600

Monday April 27, 1914.

Scale R.
~~9.35~~

Iso plate.
MC 5277

	sc.1	sc.2	P.C. sc.2
2n	2.7		10.5
3n	5.1		11.7
4n	6.5		12.5
5n	7.4		12.6
6n	8.4	8.6	13.4
		9.5	14.0
7n		~~10.6~~	~~11.5~~
8n		10.6	
9n		11.4	
10n		12.6	
11n		12.7	
12n		12.8	
4s		9.6	
5s		9.9	
6s		11.2	
8s		13.9	
9s		~~?~~	
+89	12.	5.7	12.3
+88	2	6.3	12.6
+88	90	7.8 ~~8.1~~ ws.	13.4
	105	6.8	12.7
a'		10.6	
a²		12.4	
b		11.6	
c		12.6	
d		18.2	
e		12.4	
f		18.7	
g		12.7	
~~8s~~		~~?~~	

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1914phae.proj.10600

Monday, April 27, 1914.

Scale R. Iso. plate.

Mc 5277 Pole.

k	13.2
l	13.4
m	13.4
o	11.4
q	f.

10:36

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1914phae.proj.10600

Monday April 27, 1914.

Scale R. Iso. plate.

Mc 5288 Pole.

10:40

	sc.1	sc.2		R.C.	
				RC.2	RC.2
58	1.7			10.7	10.6
6	3.21			11.3	11.6
7	t.p.			11.8	11.8
8	6.1			12.6	12.7
9	7.6			~~12.6~~	13.3 13.4
10	7.8	8.3		13.5	
11		9.3		13.4	13.6
12		9.4			
13		10.5			
14		10.6			
15		11.4			
16		11.6			
17		12.1			
18		12.6	12.6		
19		12.9	12.8		
20		13.4	13.4		
21		13.4	134		
22 min. clong!		~~13.~~			
23		13.6	13.6		
24		~~13.~~ 7.			
25					
26					
+87 215	6.6 poor			12.7	
+88 80	t.p.			13.2	
86	t.p.			12.7	
115	8.1	8.4		13.4	

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1914phae.proj.10600

Monday, April 27, 1914.

Scale R. Iso. plate.

Mc 5288 Pole.

				O.C.
		sc.1	sc.2	sc.2
2 r	2.4			10.6 10.6
3 r	4.4			11.6 11.7
4 r	6.6			12.6 12.7
5 r	7.2			12.8 12.7
6 r	8.3		8.4	
7 r			9.5⁻	
8 r			10.6	
9 r			11.4	
10 r			12.9	
11 r			12.7 +12.9	
12 r			13.3	
4 s			9.6	
5 s			9.8	
6 s			10.6	
8 s			7	
9 s			7.	
+87 12	6.1			12.4 12.2
+88 2	6.3			12.6 12.6
+88 90	8.3		8.5⁻	13.5⁻ 13.5⁻
105⁻	6.6			12.8 12.8
a'			10.6	
a²			12.4	
b			11.6	
c			12.5⁻	
d			12.3	
e			12.4	

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1914phae.proj.10600

Monday April 28, 1914.

Scale R. Iso plate.

MC 5288 ... Pre cent.

f	12.6
g	12.8
h	1.
k	13.4
l	13.5 15
m	13.9
o	n.s.
q	14.0

11:27:

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Wednesday April 29, 1914

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Card

Scale: N. Series 156

2;35 m lo H210 5 Rs act. corr. +10

					Curve Magn.		P lo. 7.50 00	Curve Magn.
1	4.3				4.33	8.63	7.5 7.5	0.55 8.05
2	4.6				4.32	8.92	7.75 01	
3	5.7	5.70 00			4.30	10.00	8.80 11	0.59 8.34
4	5.4	5.400			4.30	9.70	8.7 8.9	0.80 9.60
5	7.1				4.38	11.48		
6	7.5				4.42	11.92		
7	7.7				4.46	12.16		
8	7.9				4.50	12.40		
9	8.4				4.70	13.10		
10	8.6				4.80	13.40		
11	8.6	8.70 11		8.8	4.86	13.55		
12	8.8	8.85 01		8.9	4.93	13.78		
13	9.4	9.40 00		9.4	5.29	14.69		
14	9.5	9.65 10		9.6	5.48 5	14.98 5		
~~15~~	~~10.0~~	~~10,00 00~~		~~10.0~~	~~5.79~~	~~15.79~~	Reject, see cover of mc 4210	

J. E. D.

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1914phae.proj.10600

Wednesday April 29, 1914

Sc. U. Series 156 Copied Card.

Nb. 4211 39K Att. corr. +20

			Curve	Magn.			Curve	Magn.
1	4.5 ?		4.32	8.82	8.2	8.25 0 1	0.68	8.93
2	4.9		4.31	9.21	8.7	8.65 1 0	0.77	9.42
3	5.6		4.30	9.90	9.4	9.45 0 1	0.99	10.44
4×	6.6		4.34	10.94	9.6	9.70 1 1	1.05	10.75
5	6.7		4.35	11.05	10.1 ?	10.10 a.	1.17	11.27 ?
6	7.4		4.41	11.81				
7	7.4		4.41	11.81				
8	7.7		4.47	12.17				
9	8.2		6 4.51	8 12.71				
10	8.6		4.80	13.40				
11	8.9	8.90 0 0	8.9	4.96 13.86				
12	9.2	9.05 2 1	8.9	5.05 14.10				
13	9.4	9.40 0 0	9.4	5.30 14.70				
14	9.5	9.45 1 0	9.4	5.33 14.78				
15	9.8	9.80 0 0	9.8	5.60 15.40				

G. C. D.

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1914phae.proj.10600

Wednesday April 29, 1914

Sc. 21. Series 156

M.D. H212 G.S. 1 Pole

5											
6											
8											
9				MC 4215 Mean		Diff					
10	4.7			4.7	4.70	0 0	4.32				
11	5.3			5.3	5.30	0 0	4.25				
12	5.4			5.6	5.50	1 1	4.36				
13	6.1			5.8	5.95	1 2	4.35				
14	6.4			6.4	6.40	0 0	4.25				
15	6.6			6.7	6.65	0 1	4.43				
16	6.9			6.9	6.90	0 0	4.50				
17	7.4			7.4	7.40	0 0	4.23				
18	7.6			7.6	7.60	0 0	4.46				
19	7.8			7.8	7.80	0 0	4.62				
20	8.4			8.2	8.30	1 1	4.43				
23	8.6			8.6	8.60	0 0	4.74				
25	8.8	8.80	0 0	8.8	8.85	8.82 02 03	5.05				
26	9.4	9.40	0 0	9.4	9.40	9.40 00 00	4.93				
27	9.6	9.60	0 0	9.6	9.50	9.55 05 05	5.14				
28	9.6	9.60	0 0	9.6	9.60	9.60 00 00	5.51				
29	9.9	9.90	0 0	9.9	7	9.90 a .	5.76				
30	Scratched.			Scratched							

Pub.					Diff.
5.8	5.9	5.85 01	5.80	5.82 03 02	0.67
6.6	6.6	6.60 0 0	6.60	6.60 00 00	0.51
7.6	7.6	7.60 0 0	7.65	7.62 02 03	0.61
8.2	8.2	8.20 0 0	8.40	8.30 10 10	0.53
8.4	8.4	8.40 0 0	8.55	8.48 08 07	0.54
8.6			8.6	8.60 0 0	0.95
8.7			9.2	8.95 3 2	0.91
8.9			9.4	9.15 3 2	1.15
9.6			10.0	9.80 2 2	0.85
10.0			10.1	10.05 0 1	1.03
7			10.2	10.20 . a	1.20

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Series 156

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Card

Pl. No. 4213 : 89 1/2 alt. am +15

			Curve	Magn.	Pl.			Curve	Magn.
1	4.4		4.33	8.73	7.50	7.4	1/2	0.54	8.04
2	5.1		4.30	9.40	8.40	9.4	0 0	0.71	9.11
3	5.6		4.30	9.90	9.40	9.4	0 0	0.97	10.37
4	6.4		4.32	10.72	9.40	9.4	0 0	0.97	10.37
5	6.6		4.34	10.94	9.70	9.7	0 0	1.05	10.75
6	7.6		4.44	12.04					
7	8.2		4.61	12.81					
8	8.5		4.75	13.25					
9	8.6		4.80	13.40					
10	9.1		5.08	14.18					
11	9.1	9.10 0 0	9.1	5.08	14.18				
12	9.3	9.35 1/2 0	9.4	5.27	14.62				
13	9.4	9.45 0 1	9.5	5.33	14.78				
14	9.4	9.50 1/2 1	9.6	5.36	14.86				
15	9.9	9.90 0 0	9.9	5.69	15.59				

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Wednesday April 29, 1914

Series 156

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No. 4214 ... 113 ½ alt cm +0.4

	m		Curve	Magn.
1	4.9		4.30	9.20
2	5.8		4.30	10.10
3	5.8		4.30	10.10
4	6.7		4.35	11.05
5	7.7		4.36	12.06
6	7.8		4.38	12.18
7	8.4		4.71	13.11
8	8.4		4.71	13.11
9	8.6		4.79	13.39
10	8.7		4.85	13.55
11	9.4	9.4000	5.29	14.69
12	9.4	9.4501	5.33	14.78
13	9.4	9.4000	5.29	14.69
14	9.6	9.6000	5.45	15.05
15	9.7	9.7000	5.51	16.21

No.	m		Curve	Magn.
8.39 ½	8.4	8.2	0.69	8.99
9.15 10	9.1	9.2	0.90	10.05
9.4000	9.4	9.4	0.97	10.37
9.9900	9.9	9.9	1.10	11.00

n.s.

G.E.S.

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Wednesday April 29, 1914

Series 56

	m b 4215	Pole		p. b.	
5				5.8	5.8
6				6.6	6.6
8				7.6	7.7
9				8.4	8.4
10	4.7			8.6	8.5
11	5.3			8.6	
12	5.6			9.2	
13	5.8			9.4	
14	6.4			10.0	
15	6.7			10.1	
16	6.9			10.2	
17	7.4				
18	7.6				
19	7.8				
20	8.2				
23	8.6				
25	8.9	8.8510	8.8		
26	9.4	9.4000	9.4		
27	9.6	9.5011	9.4		
28	9.7	9.6011	9.5		
29					
30	n.s.				

See page 63

G.E.D.

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1914phae.proj.10600

Wednesday April 29, 1914

Series 56

Cooperid.

Card.

m. b H216 q 12 s alt. corr. +20

	B	Curr	Magn.	Pb		Curr	Magn.
1	B			6.4	6.2 (6.30 ± 1)		
2	4.6	4.31	8.91	8.3	8.2 (8.13 ± 1) — 7.9	0.64	8.77
3	4.8	4.31	9.11	8.6	8.5 (8.550 ± 1)	0.73	9.28
4	5.8	4.30	10.10	9.6	9.7 (9.650 ± 1)	1.03	10.68
5	6.6	4.34	10.94	10.0	10.0 (10.000 ± 1)	1.14	11.14
6	7.3	4.39	11.69				
7	8.2	4.61	12.81				
8	8.5	4.75	13.25				
9	8.7	4.85	13.55				
Weak crack! 10	9.1?	5.08	14.18				
" " " ! 11	9.4? 9.400 ± 0	9.4	5.30	14.70			
12	9.6 9.501 ± 1	9.4	5.36	14.86			
13	9.7 9.751 ± 0	9.8	5.58	15.33			
14	9.9 9.801 ± 1	9.7	5.61	15.41			
15	10.0 9.950 ± 1	9.9	5.75	15.70			

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Series 56

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Card.

N b H 2.7 10 P s alt. corr. +19

			Curve	Magn.		Curve	Magn.
1	4.5		4.32	8.82	7.45 10 7.5. 7.4	0.54	7.99
2	3.7				7.20 00 7.2. 7.2	0.53	7.73
3	4.5		4.32	8.82	8.00 2 2 7.8 8.2	0.62	8.62
4	4.8		4.31	9.11	8.65 10 8.7 9.8 8.6	0.76	9.41
5	6.4		4.32 2	10.78 2	9.55 10 9.5 9.6	1.01	10.56
6	6.5		4.32 3	10.80 3	9.85 10 9.9 9.8	1.09	10.94
7	6.7		4.32 4	11.00 4	N.S.		
8	6.8		4.32 5	11.10 5			
9	7.4		4.33 41	11.73 81			
10	7.6		4.34	11.94			
11	7.6		4.34	11.94			
12	8.4		4.41 7	13.11			
13	8.4		4.41 7	13.11			
14	8.5	8.45 10 8.4	4.41 7	13.16			
15	9.2	9.25 01 9.3	4.63 518	14.43			
16	9.4	9.40 00 9.4	4.71 530	14.71 70			
17	9.4	9.40 00 9.4	4.71 530	14.71 70			
18	9.8	9.80 00 9.8	4.90 561	14.70 15 41			

Ed.

4.05

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1914phae.proj.10600

Thursday April 30, 1914.

Scale m. H. S. Regions. Copied.

I 3 20 20 D 10 19-15° Prec. Im.

1:45 P.C. Att. Cor. - 0.18

	sc.1	sc.2	sc.1		curve	Magn.	sc.2			curve	Magn.	Magn.
1	t.p.					gf	8.1	8.1	8.10 00	3.27-1.85	11.97	6.85
2	3.4 3.6		3.6	3.80 11			8.9	8.8	8.85 10	3.31-1.60	12.16	7.25
3	3.9 4.1	4.3		4.20 11			9.5	9.4	9.45 10	3.54-1.30	12.99	8.15
4 poor	3.6 3.8	4.2		4.00 22		gf	9.4	9.4	9.40 00	3.51-1.32	12.91	8.08
5	4.4 4.6	5.6		5.10 55			9.1	9.1	9.10 00	3.65-1.18	13.35	8.52
6	4.5 4.7	5.1		4.90 22			9.1	9.6	9.65 10	3.62-1.21	13.27	8.44
7	4.5 4.7	5.3		5.00 33			9.1	9.1	9.10 00	3.65-1.18	13.35	8.52
8	4.7 4.9	5.4		5.15 22			9.9	9.9	9.90 00	3.78-1.07	13.68	8.83
9	5.5 5.7	5.6		5.65 10	3.23	8.88	9.9	9.9	9.90 00	3.78-1.07	13.68	8.83
10	4.7 4.9	5.1		5.00 11			m.s.	10.0?	10.00?	3.85-1.01	13.85 ?	8.99 ?
11	5.5 5.7	5.8		5.75 10	3.28	8.96	m.s.					
12	5.5 5.7	5.1		5.70 00	3.22	8.92	10.1?		10.1?	3.86 ?	13.96 ?	9.10 ?
13	5.5 5.7	5.1		5.70 00	3.22	8.92	f		f	f	f	f
14	5.8 6.0	6.4		6.20 22	3.14	9.84						
15		7.6	7.6	7.60 00	3.08	10.68						
16	6.5 6.7	6.6	6.7	6.67 10	3.07	9.74						
17	7.0 8.2	7.4	7.5	7.37 01	3.06	10.43						
18	6.6 6.8	7.3	7.3	7.13 22	3.05	10.18						
19		7.6	7.7	7.65 01	3.09	10.74						
20		7.8	8.1	7.92 11	3.12	11.02						
21		7.6	7.8	7.70 11	3.10	10.80						
22		8.1	8.2	8.15 10	3.15	11.30						
23		7.8	7.9	7.85 01	3.11	10.96						
24		8.1	8.1	8.10 00	3.14	11.24						
25		8.1	8.7	8.70 00	3.27	11.97						
26		8.5	8.5	8.50 00	3.21	11.71						

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1914phae.proj.10600

Thursday April 30, 1914.

Scale m. N. S. Regions.

I 32020 D 10 19-15

Preceding Exp. cont.

	Rc 1	Rc 2	Rc 2		Curve	Magn.
27		8.4	8.4	8.40 00	3.19	11.59
28		8.7	8.7	8.70 00	3.27	11.97
29		9.3	9.1	9.20 12	3.42	12.62
30		9.4	9.4	9.40 00	3.51	12.91
31		9.4	9.3	9.35 02	3.49	12.84
32		9.6	9.6	9.60 00	3.60	13.20
33		9.8	9.9	9.85 01	3.72	13.57
34a		9.9	9.9	9.90 00	3.78	13.68
35						
36						

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Thursday April 30, 1914.

Scale M. H. I. Regions

I 320 20 cont.

Polar

	Rc.1	Rc.2	Rc.2	Diff	Rc.2	Diff.	
5					8.4 8.40 00 8.4	- 1.91	
6					8.1 8.70 00 8.1	- 1.59	
8					~~9.4~~		scratched.
9				Diff	9.9 9.90 00 9.9	- 1.07	
10	5.6	5.85 75 0 5.1		3.27	10.0 10.00 00 10.0	- 0.98	
11	6.3	6.5 6.45 10 6.4		3.16			
12	6.9 6.1	7.00 1 7.1		2.86			
13		7.3	7.35 1 0 7.4	2.95			
14		7.5	7.45 10 7.4	3.20			
15		7.8	7.75 0 7.7	3.33			
16		8.4	8.30 1 2 8.2	3.10			
17		8.6	8.60 00 8.6	3.03			
18		8.1	8.70 00 8.1	3.36			
19		9.1	8.95 1 2 8.8	3.47			
20		9.4	9.35 0 9.3	3.38			
23		9.1	9.75 1 0 9.8	3.59			
25		9.8	9.80 00 9.8	4.07			
26		↓	↓				
27							

(over)

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1914phae.proj.10600

Thursday April 30, 1914

Scale M. U.S. Regions

I 32 0 20 cont

Following opp.

D 10 19-15 Att Corr -0.18

P.C.

	pc.1	pc.2	sc.1		Curve	Magn.	pc.2			Curve	Magn.
1							8.8	8.7	8.75 o 1	-1.63	7.12
2	2.7 2.9			2.9			8.7	8.7	8.70 o o	-1.65	7.05
3	t.p. 3.82		3.7			9f	9.2	9.3	9.25 o 1	-1.40	7.85
4	3.6		3.5	3.75? 1			9.2	9.2	9.20 o o	-1.42	7.78
5	3.8 4.0	4.2		4.10 1 1			9.5?	foa.	9.5?a.	-1.29	8.21?
6	4.3 4.5	4.3		4.40 1 1			9.5	9.5	9.50 o o	-1.29	8.21
7	4.5 4.7	4.8		4.75 1 o			9.6	9.6	9.60 o o	-1.24	8.36
8	4.8 5.0	5.1		5.05 o 1			9.7	9.1	9.70 o o	-1.18	8.52
9	5.3 5.5	5.5		5.50 o o	~~3.25~~	8.75	n.s.	n.s.	n.s.		n.s.
10	4.4 4.6	4.8		4.70 1 1			9.1	9.7?	9.70? o o	-1.18	8.52?
11	5.3 5.5	5.6		5.55 1 o	3.25	8.80					
12	5.4 5.6	5.6		5.60 o o	3.24	8.84					
13	5.4 5.6	5.7		5.65 o 1	3.23	8.88					
14	5.7 5.9	5.9		5.90 o o	3.18	9.08					
15		7.6		7.6 . 1	3.09	10.69					
16	6.6 6.8	6.3	sc.2	6.55 2 3	3.09	9.64					
17	6.8	7.4	7.4	7.40 o o	3.07	10.47					
18	6.6	6.6	6.7	6.70 1 1 o	3.07	9.77					
19		7.6	7.5	7.55 o 1	3.08	10.63					
20		8.3	8.4	8.35 1 o	3.18	11.53					
21		7.6	7.6	7.60 o o	3.09	10.69					
22		7.9	7.8	7.85 1 o	3.11	10.96					
23		7.9	7.7	7.80 1 1	3.10	10.90					
24		7.9	7.8	7.85 1 o	3.11	10.96					
25		8.6	8.6	8.60 o o	3.24	11.84					
26		8.3	8.4	8.35 1 o	3.18	11.53					

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1914phae.proj.10660

Thursday, April 30, 1914.

Scale M. N.S. Regions.

I 32. 0 20 cont.

	RC.2	sc.2		Curve	Magn.
27	8.5	8.3	8.40 ± 1	3.19	11.59
28	8.5	8.6	8.55 ± 0	3.22	11.77
29	9.1	8.7	8.90 ± 2	3.32	12.22
30	8.9	9.1	9.00 ± 1	3.35	12.35
31	9.7	9.7	9.55 ± 2	3.58	13.13
nearly Sups. 32	.	.	.		R
33	9.7	9.7	9.70 ± 0	3.65	13.35
34a	9.7	9.7	9.70 ± 0	3.65	13.35
35					
36					

9:10

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Thursday April 30, 1914.

Scale m. N.S. Regions. Copied.

I 32147 21-15 D 11.

Preceding Exp. D.C. alt. -0.18

	pc.1	pc.2	pc.1		Curve	Magn.	pc.2	pc.2		Curve	Magn.
1	.				.	.	7.9	8.3	8.10 3 2	-1.16	6.94
too far from c. 2	.				.	.	8.6	8.5	8.55 0 1	-1.08	7.47
3	.				.	.	8.6	8.4	8.50 1 1	-1.09	7.41
4	t.f.	.			.	.	8.6	8.6	8.60 0 0	-1.07 6	7.54
5	2.7	2.9		2.9	.	.	8.6	8.6	8.60 0 0	-1.06	7.54
6	t.f.	.			.	.	8.7	8.1	8.70 0 0	-1.03	7.67
7	3.1	3.3		3.3	.	.	8.7	8.8	8.75 1 0	-1.02	7.73
8	3.0	3.2	3.0 3.2	3.20	0	.	8.7	8.8	8.75 1 0	-1.02	7.73
9	3.4	3.6	3.5 3.7	3.65	0 1	.	9.3	9.1	9.20 1 1	-0.88	8.32
10	3.6	3.8	3.7 3.9	3.85	0 1	.	9.4	9.4	9.40 0 0	-0.81	8.59
11	3.9	4.1	4.1	4.10	0 0	.	9.4	9.4	9.40 0 0	-081	8.59
12	4.0	4.2	4.4	4.30	1 1	.	9.8	9.9	9.85 0 1	-062	9.23
13	4.4	4.6	4.1	4.65	0 1	.	9.7	9.7	9.70 0 0	-068	9.02
14	5.1	5.3	5.4	5.35	1 0	4.00	9.9	9.9 9	9.90 0 0	-0.59	9.31
15	5.5	5.7	5.8	5.75	1 0	3.94	9.69	10.0	? m.s. 10.0	-0.53	9.47 ?
16	5.6	5.8	5.6	5.70	1 1	3.94	9.64				
17	5.4	5.6	5.7	5.66	0 1	3.95	9.60	m.s.			
18	6.0	6.2	6.4	6.30	1 1	3.85	10.15				
19	6.1	6.3	6.4	6.35	1 0	3.84	10.19				
20	6.2	6.4	6.3	6.35	0 1	3.84	10.19				
21	6.4	6.6	6.6	6.60	0 0	3.80	10.40				
22	6.4	6.6	6.6	6.60	0 0	3.80	10.40				
23	6.6	6.8	6.5	6.65	2 1	3.79	10.44				
24	6.4	6.6	6.6	6.60	0 0	3.80	10.40				
25		7.3	sc.2 7.4	7.35	1 0	3.72	11.07				
26	7.0	7.2	7.4	7.5	7.37	2 0 1	3.72	11.09			

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Thursday April 30, 1914.

Scale m. H.S. Regions.

I 32147 21-15 D11 cont.

	sc.1	sc.2			curve	Magn.
27	7.6	7.6	7.60	00	3.71	11.31
28	7.6	7.7	7.65	01	3.71	11.36
29	8.3	8.2	8.25	10	3.76	12.01
30	8.4	8.5	8.45	01	3.81	12.26
31	8.7	8.7	8.70	00	3.89	12.59
32	8.7	8.7	8.70	00	3.89	12.59
33	8.8	8.7	8.75	01	3.91	12.66
34	9.2	9.2	9.20	00	4.15	13.35
35	9.4	9.4	9.40	00	4.25	13.65
36	9.4	9.4	9.40	00	4.25	13.65
37	9.1	9.1	9.70	00	4.44	14.14
38	9.1	9.1	9.70	00	4.44	14.14
39	9.8	9.8	9.80	00	4.49	14.29

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Thursday April 30, 1914.

Scale m. H.S. Regions.

I 32 147 D 11 21-15° cont.

Solar Seq.	sc.1	sc.2			O.C. Diff.
5					7.7 7.70 00 7.7 -1.21
6					8.3 8.25 10 8.2 -1.14
8					9.1 9.15 10 9.2 -0.92
9					9.6 9.60 00 ~~m.s.~~ 9.6 -0.77
10				Diff.	9.6 9.70 11 9.8 -0.68
11	5.6 5 6.4	5.60 00	5.6	3.95	10.0 10.05 01 7 10.1 -0.50
12	5.9 5 6.1	5.90 00	5.9	3.86	
13	6.6 6.4	6.60 00	6.6	3.70	
14	6.8 6.6	6.95 ± 1	7.1	3.70	
15		7.5 7.45 10	7.4	3.63	
16		7.6 7.60 00	7.6	3.80	
17		7.9 8.00 ± 1	8.1	3.63	
18		8.4 8.40 00	8.4	3.66	
19		8.7 8.65 10	8.6	3.77	
20		8.7 8.70 00	8.7	4.03	
23		def.	def.		
25		9.7 9.60 ± 1	9.5	4.27	
26		9.8 9.80 00	9.8	4.53	
29		∃			

2r. unit

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Thursday April 30, 1914.

Scale M. U.S. Regions.

I 32147 cont 21h -15°

Following Images. P.C. Alt. -0.18

	sc.1	sc.1	sc.1	Curve	Magn.	sc.2			Curve	Magn.
1	2.5	2.7	2.7			8.3	8.1	8.20 i o	-1.15	7.05
2	2.8	3.0	3.0			8.4	8.5	8.45 o 1	-1.09	7.36
3	t.p.				vf	8.5	8.4	8.45 i o	-1.09	7.36
4	3.2	3.4	3.4			8.6	8.6	8.60 o o	-1.06	7.54
5	2.7	2.9	2.9 t.p.			8.7	8.7	8.70 o o	-1.03	7.67
6	3.2	3.4	3.4 t.p.			8.7	8.6	8.65 i o	-1.05	7.60
7	3.5	3.7	3.60 1 1 3.3 3.5			8.6	8.7	8.65 o 1	-1.05	7.60
8	2.8	3.0	2.80 1 1 3.2 3.0			8.7	8.6	8.65 i o	-1.05	7.60
9	3.7	3.6	3.55 o 1 3.7 3.5			9.4	9.4	9.40 o o	-0.81	8.59
10	3.7	3.9	sc.1 3.6 3.8 3.85 i o			9.4	9.4	9.40 o o	-0.81	8.59
11	3.8	4.0	3.1 3.9 3.95 o 1			9.2	9.3	9.25 o 1	-0.86	8.39
12	4.4	4.6	sc.2 4.3 4.45 2 1			9.7	9.7	9.70 o o	-0.68	9.02
13	4.4	4.6	4.8 4.70 1 1			9.7	9.7	9.70 o o	-0.68	9.02
14	4.8	5.0	5.4 5.20 2 2	4.12	9.82	9.7	9.9?	9.80 1 1	-0.63	9.17 ?
15	def.	def.				3.		5		
16	5.6	5.8	5.8 5.80 o o	3.93	9.73					
17	5.6	5.8	5.9 5.85 o 1	2.92	9.77					
18	5.7	5.9	6.1 6.00 1 1	3.90	9.90					
19	6.3	6.5	6.3 6.40 1 1	3.84	10.24					
20	6.2	6.4	6.4 6.40 o o	2.84	10.24					
21	6.4	6.6	6.5 6.55 o 1	2.81	10.36					
22	6.4	6.6	6.5 6.55 o 1	3.81	10.36					
23	6.5	6.7	6.6 6.65 1 o	3.80	10.45					
24	6.4	6.6	6.7 6.65 o 1 sc.2	3.80	10.45					
25			7.5 7.45 1 0 7.4	3.71	11.16					
26			7.4 7.45 0 1 7.5	3.71	11.16					

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Thursday April 30, 1914

Scale m. H.S. Region

I 32 141 D 11 21-15°

	sc z	sc z		Curve	Magn.	Magn.
27	7.6	7.6	7.60 0 0	3.71 ~~4.29~~	11.89	11.31
28	7.6	7.6	7.60 0 0	3.71 ~~4.29~~	11.89	11.31
29	8.1	8.1	8.10 0 0	3.75 ~~4.26~~	12.36	11.85
30	8.5	8.4	8.45 1 0	3.81 ~~4.19~~	12.64	12.26
31	8.1	8.8	8.75 1 0	3.91 ~~4.09~~	12.84	12.66
32	8.1	8.9	8.80 1 1	3.93 ~~4.07~~	12.87	12.73
33	8.1	8.1	8.70 0 0	3.89 ~~4.11~~	12.81	12.59
34	8.1	8.8	8.75 1 0	3.91 ~~4.09~~	12.84	12.66
35	9.4	9.4	9.40 0 0	4.26 ~~4.75~~	14.15	13.66
36	9.3	9.3	9.30 0 0	4.20 ~~4.80~~	14.10	13.50
37	9.4	9.5	9.45 0 1	4.29 ~~4.72~~	14.17	13.74
38	9.1	9.1	9.70 0 0	4.44 ~~4.57~~	14.27	14.14
39	9.9	9.9	9.90 0 0	4.56 ~~4.44~~	14.34	14.46

Chg. to 37.

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2.20

Wednesday May 6, 1914.

Scale U. Series 170

Mc 4533 Pleiades.

		Bb.		
1	B	3.8	3.7	3.750±
2	B	4.4	4.3	4.350±
3	B	4.4	4.3	4.350±
4	B	4.5	4.4	4.45 10
5	B	4.6	4.4	4.50 1±
6	B	4.4		
7	B	5.0		
8	B	5.5		
9	B	5.8		
10	3.2	6.4		
11	3.6	7.2		
12	3.7	7.3		
13	4.1	7.6		
14	3.9	7.7		
15	3.9	7.7		
16	4.4	7.6	Scratches	
17	4.6	8.4		
18	4.8	9.1		
19	5.4	9.4		
20	5.3	9.2		
21	5.4	9.4		
22	5.5	9.5		
23	5.7	9.6		
24	5.9	9.8		
25	6.4	10.0		
26	6.3	10.1		

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Wednesday, May 6, 1914 -

Scale U

Series 175.

MC 4533 cont.

27	6.8		
28	7.5		
29	7.3		
29a	7.6		
30	7.8		
31	8.6	8.14	8.50 1
32	8.7	8.7	8.70 00
32a	8.8	8.8	8.80 00
33	9.4	9.5	9.45 01
34	9.4	9.6	9.50 11
34a	9.9	9.8	9.85 10
35	7		
35a	7		

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Wednesday May 6, 1914

Scale K

May 6, 1914 Series 175.

m to H53H Pleiades

		P.b.		
1	B	* 3.8	4 3.95	3.95 ±1
2	B	4.5	H.3	4.40 ±
3	B	4.5	4.6	4.55 ±0
4	B	4.6	4.6	4.60 00
5	B	4.6	4.7	4.65 01
6	B	4.6		
7	B	5.6		
8	B	5.6		
9	B	5.8		
10	3.5	6.6		
11	3.7	7.4		
12	3.6	7.4		
13	3.9-38	3.85 10	7.6	
14	4.1--4.0	4.05 10	7.6	
15	3.6	8.3		
16	3.7	7.8		
17	4.1	8.4		
18	4.6	8.7		
19	4.4	9.1		
20	4.8	9.1		
21	4.8	9.2		
Off of plate	22	.		
23	4.5	9.4		
24	4.7	9.4		
25	5.4	9.7		
26	5.4	9.4		
27	5.6			

Remeas. June 16, 1914.
3.9 Evidently a mistake of
a unit in second measure

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Wednesday May 6, 1914.

Scale 4 Series 175.

MC 4534- cont.

28	6.2		
29	Ij.		
Off of Plate 29a	.		
near Edge 30	2		
31	8.6	8.6	8.60 00
32	Ij.	8.8	8.8 .2
32a	9.5	9.4	9.45 10
33	9.6	9.7	9.65 01
34	31		
34a			

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Wednesday May 6, 1914.

Scale K Series 175.

M. 6 4535 Pleiades

			P. 6.		
1	B3		3.8	3.7	3.750 1
2	B3		4.4	4.4	4.40 00
3	B3	A	4.5	4.1	4.30 23
4	B3		4.4	4.4	4.40 00
5	B3		4.6	4.5	4.55 01
6	B3		4.6		
7	B3		5.4		
8	B3		5.6		
9	B3		5.8		
10	3.5		6.6		
11	3.7		7.2		
12	3.9		7.4		
13	4.0		7.6		
14	3.9		7.6		
15	4.1		7.6		
16	4.1		7.7		
17	4.6		8.4		
18	4.8		8.7		
19	4.9		9.3		
20	5.4		9.4		
21	5.4		9.3		
22	5.8		9.4		
23	5.0		9.4		
24	5.6		9.6		
25	5.8		9.9		
26	5.9		9		
27	6.5				

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Wednesday May 6, 1914.

Scale 2. Series 175

Mc 4535 cont.

28	6.7		
29	6.7		
29a	7.14		
30	7.5		
31	8.3		
32	8.7	8.6	8.65 10
32a	8.8	8.8	8.80 00
33	9.14	9.14	9.40 00
34	9.6	9.6	9.60 00
34a	9.9	9.7	9.80 1

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1914phae.proj.10600

Wednesday May 6, 1914.

Scale U

May 6, 1914 Series 175.

Pleiades.

	m b H536	P. b		
1	B	3.8	3.8	3.80 00
2	B	H.3	H.H	4.35 10
3	B	H.3	H.3	4.30 00
4	B	H.H	H.H	4.40 00
5	B	H.5	H.5	4.50 00
6	B	H.7		
7	B	5.H		
8	B	5.5		
9	B	5.9		
10	3.H	6.6		
11	3.6	7.H		
12	3.7	7.H		
13	3.8	7.6		
14	3.8	7.6		
15	H.2	7.6		
16	H.H	7.8		
17	H.5	8.H		
18	H.8	8.9		
19	5.2	9.H		
20	5.H	9.3		
21	5.H	9.H		
22	5.H	9.H		
23	5.6	9.H		
24	5.6	9.7		
25	6.H	10.0		
26	6.2	H		
27	6.7			

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Wednesday May 6, 1914.

Scale u

Series 175.

MC 4536 Cont.

28	7.4		
29	7.4		
29a	7.5		
30	7.7		
31	8.5		
32	8.7		
32a	9.3	9.4	9.35 ±0
33	9.4	9.4	9.40 00
34	9.5	9.6	9.55 ±0
34a	9.7	9.8	9.75 ±0
35	31	31	

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Wednesday May 6, 1914.

Scale 1

May 6, 1914 Series 175.

	M 6 H 537	Pleiades	
			P.b
1	B		3.8 3.7 3.75 0 ±
2	B		3.9 4.4 4.15 32
3	B		4.4 4.3 4.35 0 ±
4	B		4.6 4.6 4.60 00
5	B		4.7 4.7 4.70 00
6	B		4.6
7	B		5.2
8	B		5.7
9	B		5.8
10	3.4		6.4
11	3.6		7.3
12	3.8		7.4
13	4.3		7.6
14	4.1		7.6
15	3.9		7.6
16	4.4		7.6
17	4.6		8.4
18	5.3		8.9
19	5.4		9.3
20	5.4		9.2
21	5.3		9.4
22	5.8		9.6
23	5.6		9.6
24	5.8		9.7
25	6.4		10.0
26	6.5		?
27	6.8		

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1914phae.proj.10600

Wednesday May 6, 1914 -

Scale U

Series 175

Mc 4537 cont.

28	7.4			
29	7.5			
29a	7.6			
30	8.1			
31	8.6			
32	8.7	8.6	8.65	10
32a	9.1	9.2	9.15	10
33	9.4	9.4	9.40	00
34	9.6	9.6	9.60	00
34a	9.7	9.7	9.70	00
35	51	51		

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Scale K. May 6, 1914. Series 170.

M b 4538 Pleiades

		P.b.
1	B	3.9 3.9 3.90 00
2	B	4.3 4.3 4.30 00
3	B	4.6 4.4 4.50 1
4	B	4.5 4.6 4.55 1 0
5	B	4.7 4.6 4.65 1 0
6	B	4.7
7	B	5.5
8	B	5.8
9	B	6.4
10	3.5	6.6
11	3.7	7.3
12	3.6	7.4
13	3.8	7.6
14	3.8	7.6
15	4.2	7.6
16	4.4	7.6
17	4.5	8.4
18	4.7	8.7
19	4.6	9.4 -- 9.3 9.35 0 1
20	[illegible]	8.8 -- 8.9 8.85 0 1
21	4.5	9.3
22	5.3	9.6
23	5.3	9.5
24	5.3	9.7
25	5.4	9.8
26	[illegible]	[illegible]
27	6.1	

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Wednesday, May 6, 1914.

Scale 1

Series 175

MC 4538 cont.

28	6.6		
29	6.6		
29a	7.14		
30	7.6		
31	8.5		
32	8.6	8.5	8.55 01
32a	9.14	9.14	9.40 00
33	9.6	9.5	9.55 01
34	9.8	9.9	9.85 01
34a	9.9	10.1	10.00 11

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Wednesday May 6, 1914.

Scale U Series 175.

	m b 4539	Pleiades	P. b
1	B		H.3 3.9 4.10 ±±
2	B		4.3 H.4 4.35 ±0
3	B		H.3. H.5 4.40 ±1
4	B		H.7 H.6 4.65 ±0
5	B		H.6 H.6 4.60 00
6	B		H.7
7	B		5.5
8	B		5.8
9	B		6.3
10	3.6		6.6
11	3.8		7.4
12	3.8		7.5
13	H.2		7.6
14	3.9		7.6
15	3.7		7.7
16	3.7		8.1
17	3.8		8.5
18	H.H		8.8
19	H.4		9.3
20	H.8		9.4
21	H.7		9.4
22	V. v.		V. v.
23	H.H		9.5
24	H.7		9.6
25	5.5		9.7
26	5.6		n. s.
27	5.6		n. s.
28	V. v.		

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Wednesday May 6, 1914.

Scales

Series 175

MC 4539 cont.

29	J.p.		
29a	J.p.		
30	J.p.		
31	J.p.		
32	9.14	9.14	9.40 00
32a	9.8	9.7	9.75 01
33	9.7	10.0	9.85 +2
34	n.d.		
34a			

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1914phae.proj.10600

Series 17 5.

Scale

May 6. 1914

M 6 H540 Pleiades

		P. 6.		
1	B	3.9	3.9	3.90 00
2	B	4.3	4.5	4.40 11
3	B	4.2	4.3	4.25 01
4	B	4.5	4.6	4.55 10
5	B	4.6	4.5	4.55 01
6	B	4.7		
7	B	5.6		
8	B	5.5		
9	B	5.7		
10	3.4	6.4		
11	3.6	6.9		
12	~~B~~ 3.8	7.4		
13	4.2	7.5		
14	4.1	7.6		
15	3.9	7.6		
16	4.3	7.6		
17	4.5	8.5		
18	5.0	8.7		
19	5.3	9.4	9.4	9.40 00
20	5.3	8.7	9.1	8.90 22
21	5.4	9.4		
22	5.4	9.4		
23	5.5	9.6		
24	5.6	9.7		
25	6.4			
26	6.4			
27	7.0			

Im. P. 6.

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1914phae.proj.10600

Wednesday May 6, 1914 -

Scale K

Series 175

MC 4540 cont.

28	7.3		
29	7.14		
29a	7.5		
30	7.7		
31	8.6		
32	8.7	8.6	8.65 10
32a	8.9	8.7	8.80 11
33	9.14	9.3	9.35 01
34	9.7	9.6	9.65 10
34a	9.8	9.7	9.75 01
35	51		

4:40

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1914phae.proj.10600

Thursday May 7, 1914.

Measures of Distances of Stars in Pleiades from centre of plate.

12:55 MC 4533 N sp. num. end at right.

1	+11 l
2	+24 l
3	+14 r
4	+17 r
5	+1 l
6	+23 r
7	+26 l
8	+18 r
9	+23 r
10	+22 r
11	+16 l
12	+25 l
13	+16 r
14	+12
15	+41 l
16	+35 l
17	+29 l
18	+33 l
19	+29 l
20	+16 r
21	+20 r
22	+47 l
23	+33 l
24	+22 l
25	+18 l
26	-19 l

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1914phae.proj.10600

Thursday, May 7, 1914.

Measures of D istance of stars from centre of plate.

MC 45 33 cont.

27	14 l
28	+36 l
29	+32 l
29a	+46 l
30	+44 l
31	+32 l
32	+34 l
32a	+34 l
33	+31 l
34	+31 l
34a	+26 l
35	n.s.

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1914phae.proj.10600

Thursday May 7, 1914.

Measures of Distance of stars from centre of plate.

	MC4534 N ups.	~~MC4535~~	MC4525 N ups.
1	95l		+63l
2	109l		+71l
3	+73l		+41l
4	+82l		+52l
5	85l		+53l
6	+78l		+48l
7	109l		+71l
8	+73l		+42l
9	+84l		+54l
10	+85l		+55l
11	+95l		+64l
12	+104l		+73l
13	+80l		+49l
14	+87l		+55l
15	+121l		+90l
16	+116l		+84l
17	+111l		+80l
18	+96l		+61l
19	+91l		+68l
20	+75l		+45l
21	+81l		+50l
22	off pl.		+98l
23	+115l		+84l
24	+104l		+72l
25	100l		+69l
26	-98l		-66l

~~27~~

2:1a

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1914phae.proj.10600

Thursday May 7, 1914.

Measures of Distance cont.

	Mc 4534	Mc 4535
27	103l	+71l
28	+112l	+82l
29	+114l	+82l
29a	off fil.	+96l
30	+124l	+94l
31	+114l	+81l
32	+114l	+83l
32a	+114l	+83l
33	+112l	+80l
34	+114l	+82l
34a	ft.	+75l
35		

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1914phae.proj.106600

Friday, May 8, 1914.

Measures of Dist. (in mm.) of stars from center of plate.

9:30	Mc 4536 Pleiades	Mc 4537	Mc 4538	Mc 4539	Mc 4540.	
1	+37 l	+34 r	-98 r	+103 l	+7 l	1
2	51 l	+20 r	-89 r	+114 l	+18 l	2
3	+16 ~~l~~	+55 r	-116 r	+86 l	+19 r	3
4	+28 l	+50 r	-105 r	+98 l	+18 r	4
5	27 l	+43 r	-110 r	+95 l	6 r	5
6	+26 l	+56 r	-107 r	+97 l	+24 r	6
7	+51 l	+21 r	-87 r	+116 l	+19 l	7
8	+19 l	+57 r	-113 r	+90 l	+22 r	8
9	+32 l	+52 r	-100 r	+104 l	+24 r	9
10	+34 l	+50 r	-100 r	+104 l	+22 r	10
11	+39 l	+35 r	-94 r	+107 l	+13 ~~l~~	11
12	+48 l	+29 r	-87 r	+115 l	+19 l	12
13	+25 l	+51 r	-106 r	+96 l	+18 r	13
14	+30 l	+43 r	-102 r	+99 l	+12 r	14
15	+65 l	+22 r	-90 r	+132 l	+35 l	15
16	+59 l	+20 r	-77 r	+125 l	+29 l	16
17	+54 l	+21 r	-84 r	+120 l	+23 l	17
18	+47 l	+50 r	-87 r	+117 l	+32	18
19	+45 l	+43 r	-87 r	+115 l	+26	19
20	+20 l	+55 r	-111 r	+91 l	+20 r	20
21	+28 l	+53 r	-104 r	+99 l	+22 r	21
22	+73 l	+22	-64 r	+139 l	+42 l	22
23	+58 l	+17 r	-80 r	+122 l	+26 l	23
24	+47 l	+26 r	-100 r	+112 l	+15 l	24
25	+42 l	+29 r	-94 r	+108 l	+11 l	25
26	-41 l	-34 r	-101 r	+95 l	-16 l	26

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1914phae.proj.10600

Friday May 8, 1914.

Measures of Dist. from centre of plate.

	Mc 4536	Mc 4537	Mc 4538	Mc 4539	Mc 4540
				I	
27	+45 l	+25 r	-75 r	+109 l ~~+126 l~~	-9 l
28	+57 l	+34 r	-75 r	+126 l	+31 l
29	+56 l	+18 r	-81 r	+122 l	+25 l
29a	+70 l	+17	-68 r	+136 l	+39 l
30	+67 l	+20 r	-70 r	+133 l	+36 l
31	+55 l	+21 r	-81 r	+122 l	+25 l
32	+58 l	+21 r	-77 r	+124 l	+28 l
32a	+77 l	+21 r	-78 r	+124 l	+27 l
33	+54 l	+22 r	-81 r	+121 l	+25 l
34	+55 l	+20 r	-83 r	+121 l	+24 l
34a	+50 l	+21 r	-85 r	+117 l?	+20 l
35	‡.	+26 r?	‡.	m.s.	‡.

11
~~10~~ 15

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Friday May 8, 1914.

Scale R N.S. Region.

11:55 ~~Dr~~ I 28828 * Δ8 15-15 Copied

Orec. Im. Att. Cor. -0.18

		Sc.1	Sc.2	Sc.1			P.C. Sc.2			Curve	Magn.
Co-Sat from comc.	1	·	·				12.3	12.4	12.35 1 0	-4.46	7.89
" " "	2	·					12.3	12.3	12.30 0 0	-4.46	7.84
" "	3	·					12.2	12.4	12.30 1 1	-4.46	7.84
" "	4	·					12.4	12.4	12.40 0 0	-4.46	7.94
" "	5	·			Curve	Magn.	12.4	12.6	12.50 1 1	-4.46	8.04
	6	5.6 59		6.3 66	6.25 3 4	~~0.46~~	12.5	12.6	12.55 1 0	-4.45	8.10
	7	5.6 59		5.6 59	5.90 0 0	~~0.60~~	12.4	12.6	12.50 1 1	-4.46	8.04
	8	6.1 64		5.9 62	6.30 1 1	·	12.4	12.4	12.40 0 0	-4.46	7.94
	9	6.4 67		6.3 66	6.65 1 0	·	12.6	12.8	12.70 1 1	-4.45	8.25
" " "	10	·			·	·	13.2	13.2	13.20 0 0	-4.38	8.90
	11	7.6 79		7.6 79	7.90 0 0	1.47	13.6	13.7	13.65 0 1	-4.18	9.47
	12	7.4 77		7.5 78	7.75 1 0	1.50	13.8	13.7	13.75 0 1	-4.12	9.63
	13	7.4 7.6		7.6 79	~~7.63~~ 7.83 1 1 1	~~1.49~~ 1.69	9.17	f	f		f
			Sc.2								
	14	9.4		9.4	9.40 0 0	0.84	10.24				
	15	9.6		9.4	9.50 1 1	0.78	10.28				
	16	9.8		9.6	9.70 1 1	0.68	10.38				
	17	10.3		10.4	10.35 1 0	0.42	10.77				
	18	10.4		·	10.4 ·	0.40	10.80				
	19	10.6		10.6	10.60 0 0	0.36	10.96				
	20	11.2		11.3	11.25 0 1	0.24	11.49				
	21	11.1		11.0	11.05 1 0	0.28	11.33				
	22	11.7		11.5	11.60 1 1	0.20	11.80				
	23	11.5		11.4	11.45 1 0	0.22	11.67				
	24	11.6		11.7	11.65 0 1	0.20	11.85				
	25	12.4		12.3	12.35 0 1	0.17	12.52				
	26	12.5		12.7	12.60 1 1	0.17	12.77				

* Plate poor. Im. hardly comp. with scale.

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1914phae.proj.10600

Friday May 8, 1914.

Scale R N. S. Region

I 28828 28 15 - 15

	sc.1	sc.2	sc.2		Curve	Magn.
27		12.7	12.7	12.70 00	0.18	12.88
28		12.6	12.8	12.70 10	0.18	12.88
29		~~t.p. 12.6~~	t.p.	t.p.		
30		13.4	13.5	13.45 01	0.30	13.75
31		13.5	13.6	13.55 10	0.32	13.87
32		13.7	13.6	13.65 10	0.35	14.00
33		13.8	13.8	13.80 00	0.40	14.20
34		n.s.		n.s.		
b		12.4	12.4	12.40 00	0.17	12.57

Polar.

				Diff.
5				
6				
8				
9			Diff.	
10	7.3 7.6		7.6a 1.42	
11	7.7 8.0		8.0 1.55	
12	8.4 8.7	8.5	8.60 11 1.26	
13	9.3	9.4	9.35 10 0.95	
14	10.3	10.3	10.30 00 0.85	
15	10.6?	10.6?	10.60 00 0.48	
16	11.2	11.2	11.20 00 0.20	
17	11.5	11.4	11.45 w.s. 10 0.18	
18	11.8	11.7	11.75 01 0.31	
19	12.4	12.3	12.350 1 0.07	
20	12.6	12.5	12.55 01 0.18	
23	13.3	13.2	13.25 10 0.09	
25	13.5	13.4	13.45 10 0.42	
26	13.9	14.0	13.95 10 0.38	
27				

near defect.

O.C. - sc.2

			Diff.
10.8	10.8	10.80 00	-4.31
11.5	11.6	11.55 10	-4.44
12.7	12.6	12.65 10	-4.42
13.4	13.4	13.40 00	-4.67
13.4	13.5	13.45 01	-4.43
13.7	13.6	13.65 10	-4.10
13.9	13.8	13.85 10	-3.99
w.s.		w.s.	

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1914phae.proj.10600

Friday May 8, 1914.

Scale R H.S. Regions

I 28828 D8 15-15. cont.

Tole. Inv. Alt. Cur -0.18

	sc 1	sc. 2	sc. 1	Curve Magn.		P.C. sc 2.			Curve Magn.
too far from center. 1	·			. .		11.8	11.8	11.80 00 -4.45	7.35
2	·			. .		11.9	11.9	11.90 00 -4.46	7.44
3	·			. .		12.2	12.2	12.20 00 -4.46	7.74
4	·			. .		12.4	12.2	12.30 1L -4.46	7.84
5	·			. .		12.4	12.4	12.40 00 -4.46	7.94
6	6.2 6.5	6.20 3 3	5.6 5.9	. .		12.4	12.4	12.40 00 -4.46	7.94
7	5.6 5.9	5.90 00	5.6 5.9	. .		T2.5	12.4	12.45 10 -4.46	7.99
8	5.6 5.9	5.90 00	5.6 5.9	. .		12.6	12.4	12.50 1L -4.46	8.04
9	6.4 6.7	6.40 3 3	5.8 6.1	. .		12.6	12.6	12.60 00 -4.45	8.15
10	·			. .		13.3	13.4	13.35 10 -4.32	9.03
11	7.6 7.9	7.85 10	7.5 7.8	1.48	9.33	13.7	13.7	13.70 00 -4.14	9.56
12	7.4 7.7	7.70 00	7.4 7.7	1.51	9.21	13.7	13.7	13.70 00 -4.14	9.56
13	7.5 7.8	7.85 01	7.6 7.9	1.48	9.33	J.		J	J J
14	9.35 9.4		9.3 sc.2	0.87	10.22				Curve Magn.
15	9.40 00	9.4	9.4	0.85	10.25	21	12.8	12.8	12.80 00 0.19 12.99
16	9.50 00	10.5	9.5	0.78	10.28	28	12.6	12.7	12.65 01 0.18 12.83
17	10.40 00	10.4	10.4	0.40	10.80	29	13.5	13.5	13.50 00 0.31 13.81
18	10.60 00	10.6	10.6	0.86	10.96	30	13.5	13.5	13.50 00 0.31 13.81
19	10.60 00	10.6	10.6	0.86	10.96	31	13.7	13.6	13.65 10 0.35 14.00
20	11.10 2 2	11.3	10.9	0.27	11.37	32	13.6	13.7	13.65 01 0.35 14.00
21	11.30 00	11.3	11.3	0.24	11.54	33	13.8	13.9	13.85 01 0.42 14.27
22	11.50 00	11.5	11.5	0.21	11.71	34	n.s.	n.s.	. . .
23	11.60 00	11.6	11.6	0.20	11.80	b	12.4	12.3	12.35 01 0.17 12.52
24	11.75 1L 0	11.7	11.8	0.19	11.94				
25	12.40	12.5	12.3	0.17	12.57				
26	12.55 01	12.6	12.5	0.17	12.72				

1-20

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale U

Series 252

9.05

mc 5475

Opik

		mc 5480	mc 5486	Mean.	Diff.
5					
6					
8					
9					
10	4.1	4.7	4.3	4.57 1 1 3	4.45
11	4.9	5.2	4.6	4.90 8 3 3	4.65
12	5.3	5.4	4.7	5.13 2 3 4	4.73
13	5.7	5.7	5.3	6.57 1 1 3	4.73
14	5.9	def.	5.6	5.75 1 . 2	4.90
15	6.6 6.6000 6.6	6.4	6.2	6.40 2 0 2	4.68
16	6.6 6.75±1 6.9	6.8	6.4	6.65 10 15 25	4.75
17	7.2	7.4	6.6	7.07 1 3 5	4.56
18	7.5	7.5	7.3	7.43 1 1 1	4.63
19	7.1	7.6	7.6	7.63 1 0 0	4.79
20	7.9 7.95±0 8.0	8.2	7.70	7.95 00 25 25	4.78
23	8.6 8.6000 8.6	8.5	8.40	8.50 10 00 10	4.84
25	8.6 8.6501 8.7	8.70	8.75	8.70 05 00 06	5.17
26	9.3 9.3510 9.4	9.30	9.40	9.35 00 05 05	4.98
27	9.5 9.5000 9.5	9.40	9.60	9.60 00 10 10	5.19
28	9.6 9.6000 9.6	9.65	tr. for.	9.62 0 2 0 3 .	5.49
29	9.8 9.8000 9.8	10.00	m.s.	9.90 10 10 .	5.76
30	4.	4.7		.	.

C.C.	mc 5480	mc 5486		Diff.
5.8 5.8000 5.8	5.80	5.50	5.70 10 10 20	0.79
6.4 6.3501 6.3	6.15	6.30	6.27 08 12 03	0.84
7.6 7.6000 7.6	7.60	7.30	7.47 13 03 17	0.76
8.1 7.93 7.8 7.9	8.20	7.65	7.93 00 27 28	0.90
7.9 8.05±2 8.2	8.40	8.35	8.27 22 13 08	0.75
8.6 8.402± 8.2	8.6	8.6	8.53 13 07 07	1.02
8.8	8.9	9.1	8.93 ± 0 2	0.93
9.4	9.4	9.6	9.47 ± 1 1	0.83
9.5	9.6	9.7	9.60 ± 0 1	1.05
~~9.5~~ 9.1	9.8	7	9.75 ± 0 .	1.33
9.6	7		9.60 a .	1.80
m.s.				
m.s.				

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Wednesday May 13, 1914 -

Scale 11 — Copied — Series 252 — Card.

Mc 5476 — S + S Urs. Maj. Dist. +.20

S Urs. Maj. — 12 to +60.

				Curve	Magn.			Curve	Magn.
a	1	3.6				6.6 6.6 6.60 .0	+	0.80	7.40
b	2	3.8				7.4 7.3 7.35 .1		0.81	8.16
c	3	3.9				7.6 7.5 7.55 .1		0.82	8.37
d	4	4.1				7.6 7.6 7.60 .0		0.83	8.43
e	5	3.1				7.3 7.2 7.25 .1		0.81	8.06
f	6	4.6	+	4.54	9.14	del.		~~0.82~~	~~9.30~~
~~g.~~	~~4~~	~~4.7~~		~~4.58~~	~~9.28~~	~~8.4~~			
g	7	4.7		4.58	9.28	8.6		0.93	9.53
g^2	8	4.7		4.58	9.28	8.5		0.91	9.41
g^3	9	5.3		4.71	10.01	8.8		0.96	9.76
h	10	5.6		4.74	10.34	9.3		1.06	10.36
k	11	6.4		4.72	11.12	9.9		1.25	11.15
l	12	~~4.3~~		~~4.72~~	~~12.02~~ → wrong star marked on plate. Reject PER. H.S.L.				
m	13	6.7		4.71	11.41				
n	14	6.8		4.71	11.51				
o	15	7.5		4.74	12.24				
p		7.6		4.76	12.36				
p'		7.8 7.8 7.80 .0		4.79	12.59				
q		8.3 8.3 8.30 .0		4.89	13.19				
r		8.4 8.5 8.45 .1		4.93	13.38				
s		8.1 8.8 8.75 .1		5.02	13.77				
t		9.4 9.4 9.40 .0		5.38	14.78				
Var.		5.6		4.74	10.34	9.5		1.13	10.63

~~R S Ves.~~

see also next page.

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1914phae.proj.10600

Wednesday May 13, 1914

Scale 2 cont. copied Series 252 Card. copied on sheets

mc 5476 * Urs. Maj. cor. +.20

			Curve	Magn.		O.C.			Curve	Magn. * from p.105 Mean.	
a	3.2					6.3	6.3	6.30 .0	0.80	7.10	
b	3.1					7.4	7.3	7.35 .1	0.81	8.16	8.16 8.16 .00 .00
c	3.1					7.6	7.6	7.60 .0	0.82	8.42	8.37 8.40 .02 .03
d	3 4.8				* from p.105 Mean	7.7	7.7	7.70 .0	0.83	8.53	8.43 8.48 .05 .05
e	3.6					7.4	7.3	7.35 .1	0.81	8.16	8.06 8.11 .05 .05
f	4.5		H.51	9.01		8.4			0.90	9.30	
g	~~4.8~~ 4.6		H.55	9.15		8.4			0.90	9.30	
g'	4.8		H.61	9.41	9.28 9.34 .07 .06	8.6			0.92	9.52	9.53 9.52 .01 .00
g''	4.7		H.58	9.28	9.28 9.28 .00 .00	8.5			0.91	9.41	9.41 9.41 .00 .00
g³	4.8		H.61	9.41		8.9			0.98	9.88	
h	5.6		H.74	10.34		9.4			1.10	10.60	
k	6.0		H.74	10.74		9.6			1.15	10.75	
l	6.4		H.71	11.11		10.0			1.27	11.27	
m	6.6		H.71	11.31		n.s.				n.s.	
n	7.3		H.72	12.02							
o	7.7		H.78	12.48							
h	7.7		H.78	12.48							
q	7.8		H.79	12.59							
r	7.8		H.79	12.59							
s	8.4	8.4 8.40 .0	H.91	13.31							
t	8.1	8.8 8.75 .1	5.01	13.76							
u	8.1	8.6 8.65 .1	H.98	13.68 3 14.14							
w	8.8	9.2 9.00 .2	5.14	~~13.94~~							
x	9.1	9.1 9.65 .1	5.54	15.19							
y	4.5		H.57	9.01		8.3	~~0.88~~		0.88	9.18	
(Urs Maj) Var. RS Urs. Maj.		8.6	H.98	13.58							

* b, c, d, e, g, g' g¹² common to both sequences. - Hence means are taken of the duplicate measures of these common stars "H. S. L." Oct. 31, 1914

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1914phae.proj.10600

Wednesday May 13, 1914.

Copied.

Scale N

Series 252 Card.

MC 5477 B6 14 40 +45° alt. +22

		Curve	Magn.	P.C.	Curve	Magn.
Mean.	1 B.	.	.	5.8 5.8 ~~5.8~~ 5.80 00	0.82	6.62
8.16	too faint 2 3.2	.	.	6.1 6.3 6.20 01	0.80	7.00
8.40	3 3.1	.	.	6.1 6.1 6.10 00	0.81	6.91
8.48	4 3.4	.	.	6.4 6.3 6.35 02	0.80	7.15
8.11	5 3.6	.	.	6.7 6.6 6.65 10	0.80	7.45
	6 3.6	.	.	7.8	0.84	8.64
	7 3.6	.	.	double?	.	.
9.52	8 3.7	.	.	8.5	0.81	8.31
9.41	9 4.4	4.48	8.88	7.8	0.84	8.64
	10 4.5	4.51	9.01	~~7.8~~ 8.1	0.86	8.96
	11 4.7	4.58	9.28	8.7	0.94	9.64
	12 4.9	4.64	9.54	8.8	0.96	9.76
	13 4.8	4.61	9.41	8.8	0.96	9.76
	14 5.6	4.74	10.34	9.4	1.10	10.50
	15 5.6	4.74	10.34	9.4	1.10	10.50
	16 5.7	4.74	10.44	9.4	1.10	10.50
	17 5.9	4.74	10.64	9.8	1.21	11.01
	18 5.9	4.74	10.64	9.8	1.21	11.01
	19 6.1	4.71	11.41	~~9~~	~~9~~	~~9~~
	20 6.4	4.71	11.11			
	21 7.4 7.3 7.35 01	4.72	12.07			
	22 7.4	4.72	12.12			
	23 7.6	4.76	12.36			
	24 7.6	4.76	12.36			
	25 7.6	4.76	12.36			
	26 7.4	4.73	12.13			

(over)

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale U

Series 252

Mc 5477 cont B6

					Europe	Mags.
27	7.8	7.9	7.85	0.1	4.80	12.65
28	8.6	8.5	8.55	0.1	4.96	13.51
29	8.6				4.97	13.57
30	8.8				5.04	13.84
31	8.8				5.04	13.84
32	9.5	9.4	9.45	1.0	5.41	14.86
33	9.4	9.4	9.40	0.0	5.38	14.78
34	9.6	9.6	9.60	0.0	5.52	15.12
35	9.8	9.7	9.75	0.1	5.64	15.39
36	10.0	F.			5.84	15.84

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Wednesday May 13, 1914.

Scale U Series 752

10.31 mc — 5480 Pole —

		P.C.
5		5.8 5.8000 5.8
6		6.1 6.15 10 6.2
8		7.5 7.5000 7.5
9		8.2 8.2000 8.2
10	4.7	8.4 8.4000 8.4
11	5.2	8.6
12	5.4	8.9
13	5.7	9.4
14	def.	9.6
15	6.4	9.8
16	6.8	F
17	7.4	
18	7.5	
19	7.6	
20	8.2	
23	8.5	
25	8.7 8.7000 8.7	
26	9.2 9.30 11 9.4	
27	9.4 9.4000 9.4	
28	9.7 9.65 10 9.6	
29	10.0 10.0000 10.0	
30	F	

See Page 104

10.36

A. D. H.

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale 2 — Copied — Series 252. — Card.

MC 5781 — C8 — 15 + 15. — Alt. Corr +17

		Curve	Magn.	O.C.			Curve	Magn.
	1	3.5	. .	6,3	6.3	6.30 ..	0.80	7.10
Edge	2	3.3	. .	6.1	~~6.8~~	5.95 1 ±	0.81	6.76
	3	3.7	. .	7.3	7.3	7.30 ..	0.81	8.11
	4	3.7 3.6	. .	6.5	6.6	6.55 1 0	0.80	7.35
	5	3.5	. .	6.7	6.8	6.75 1 0	0.80	7.55
	6	3.7	. .	7.4			0.81	8.21
	6a	3.8	. .	7.7			0.83	8.53
	7	3.8	. .	7.6			0.82	8.42
	8	3.8	. .	7.9			0.84	8.74
	9	4.2	4.39 8.59	8.3			0.89	9.19
	10	4.1	~~4.58~~ 9.28	8.6			0.92	9.62
	11	4.6	4.55 9.15	8.6			0.92	9.52
	12	4.6	4.55 9.15	8.7			0.94	9.64
	13	4.8	4.61 9.41	9.7			1.09	10.49
	14	4.7	4.58 9.28	9.1			1.01	10.11
	15	5.4	4.72 10.12	9.5			1.13	10.63
	16	5.4	4.72 10.12	9.6			1.15	10.75
	17	5.6	4.74 10.34	9.7			1.18	10.88
	18	5.7	4.74 10.44	9.7			1.18	10.88
	19	5.8	4.74 10.54	n.s.				
	20	5.4 5.6 5.50:1	4.73 10.23					ch W
	21	6.4	4.72 11.12					
w.s.	22	~~6.6~~ 6.7	4.71 11.31					
	23	7.2	4.72 11.92					
	24	7.4	4.73 12.13					
	25	7.4	4.73 12.13					
	25a	7.6	4.76 12.36					

Images from do not compare well with scale.

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale H

Series 252

Mc 5481. C8 cont

				Curve	Magn.	
26	7.6			4.76	12.36	
27	~~8.8~~	~~8.8~~	~~8.80~~ oo	~~5.04~~	~~13.84~~	rejected by N.S.L. Feb. 25, 1915. defect. see O, 10: 216
27a	8.4	8.5	8.45 o.	4.93	13.38.	
28	8.7	8.7	8.70 oo	5.00	13.70	
29	8.7	8.7	8.70 oo	5.00	13.70	
29a	9.3	9.3	9.30 oo	5.81	14.61	
30	9.4	9.4	9.40 oo	5.37	14.77	
d	7.4			4.73	12.13	
31	9.5	9.5	9.50 oo	4.95	14.45	
32	n.s.					
33						

ch W

see also Bk 10: 139.

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale 1 | Copied Mc 5482 | Series 252. 6 K | Card. At Exp. #4

				Curve	Magn.	O.C.			Curve	Magn.
1	5.3			H.71	10.01	9.4	9.4	9.40 oo	1.09	10.49
2	5.6			H.74	10.34	9.4	9.4	9.40 oo	1.09	10.49
3	5.6			H.74	10.34	9.6	9.5	9.55 oi	1.14	10.69
4	6 5.0			H.74	10.74	9.9	9.8	9.85 oo	1.22	11.07
5	6.4	6.4	6.40 oo	H.71	11.11	10.0	10.0	10.00 oo	1.27	11.27
6	12 7.0		7.10 ii	H.71	11.81					ch W
7	1.4			H.73	12.13					
8	1.5			H.74	12.24					
9	1.7			H.78	12.48					
10	8.1			H.76	12.86					
11	8.4			H.91	13.31					
12	8.7	8.8	8.75 io	5.01	13.76					
13	8.8	8.9	8.85 oi	5.06	13.91					
14	8.8	~~8.9~~ 8.8	8.80 oo	5.04	13.84					
15	9.4	9.4	9.40 oo	5.88	13.78					
16	9.6	9.6	9.60 oo	5.01	14.61					
17	1.				F ch W					

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale 11 — 20K — W Cor. Bar. Perfect — Series 252 — Card.

Mc 5485 — W Cor. Bar. 16 11 38 — M. Cor. +22 −52

				Curve	Magn.					Curve	Magn.
must be w.s.	b	3.7 ~~4.2~~				7.4 ~~8.2~~	7.4	7.40	oo	0.81	8.21
	c	3.9				7.6	7.6	7.60	oo	0.82	8.42
	a	4.2		H.39	8.59	8.2	8.2	8.20	oo	0.87	9.07
	e	5.4		H.72	10.12	9.5	9.6	9.55	io	1.14	10.69
	d	5.6		H.74	10.34	9.7	9.6	9.65	io	1.17	10.82
	g	5.7		H.74	10.44	9.7				1.18	10.88
	f	5.8		H.74	10.54	9.9				1.24	11.14
	k	6.3		H.72	11.02						
	h	6.6		H.71	11.31						
	l	7.3		H.72	12.02						
	m	7.6		H.76	12.36						
	n	7.7		H.78	12.48						
	p	7.9	7.8	7.85	io	H.80	12.65				
	o	8.4	8.4	8.40	oo	H.91	13.31				
	r	9.1	9.2	9.15	io	5.22	14.87				
	q	9.3	9.3	9.30	oo	5.31	14.61				
	s	9.9	9.9	9.90	oo	5.75	15.65				
15 plates selected for centre of pl.	1	3.0						5.5	5.4	5.45	io	0.83	6.28
	2	3.5						7.3	7.1	7.20	ii	0.80	8.00
	3	4.3		H.43	8.73			8.5	8.4	8.45	io	0.90	9.35
	4	4.7		H.58	9.28			8.8	8.8	8.80	oo	0.96	9.76
	5	6.5		H.71	11.21	m.s.							
	6	6.8		H.70	11.50								ch W
	7	7.5		H.74	12.24								
	8	7.8		H.79	12.59								

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale R

Series 252

	Mc 5485			W Cor. Bor. cont.	
				Curve	Magn.
9	8.8			5.04	13.84
10	9.3			5.32	14.62
11	9.4	9.3	9.35 ○1	5.35	14.70
12	9.6	9.6	9.60 ○○	5.02	14.62
13	9.6	9.6	9.60 ○○	5.02	14.62
14	9.9	9.7	9.80 ○1	5.18	14.98
15	10.0	9.9	9.95 ○1	5.29	15.24
				ch W	

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1914phae.proj.10600

Wednesday May 13, 1914.

Scale 11 — Series 252.

Big Ben 11.37 — mc 5486 — Pole

		P.C
5		5.5 5500 5.5
6		6.3 6.30 00 6.3
8		7.2 7.30 1 7.4
9		7.6 7.65 0 1 7.7
10	4.3	8.4 8.35 0 1 8.3
11	4.6	8.6
12	4.7	9.1
13	5.3	9.6
14	5.6	9.7
15	6.2	F
16	6.4	
17	6.6	
18	7.3	
19	7.6	
20	7.7 7.70 00 7.7	
23	8.4 8.40 00 8.4	
scratched 25	8.5 8.75 0 1 8.7	
26	9.4 9.40 00 9.4	
27	9.6 9.60 00 9.6	
28	too poor	
29	ns	
30		

See page 104

11.415
A. D. N.

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1914phae.proj.10600

Friday May 15, 1914.

Scale N

Series 242

MC 5346

Pole

O.C.

		mc 5351	mean		Diff.				Diff.
5						5.7 5.70 0 0	5.7	5.70 0 0	0.79
6						6.4 6.40 0 0	6.4	6.40 0 0	0.71
8						7.4 7.40 0 0	7.4	7.40 0 0	0.83
9						7.9 7.80 1 1	8.4	8.10 3 3	0.73
10	4.5	4.8	4.65	1	2 4.37	8.0 8.05 0 1	8.1	8.70 8.22 17 18	0.80
11	4.1	5.3	5.00	3	3 4.55	8.5		8.75 8.60 1 1	0.95
12	5.4	5.4	5.40	0	0 4.46	8.8		9.4 8.78 02 03	1.08
13	5.6	6.0	5.65	0	1 4.65	9.4		9.5 9.40 0 0	0.90
14	5.1	6.4	5.85	1	2 4.80	9.4		n.s 9.45 0 1	1.20
15	6.3	6.8	6.35	1	0 4.73	9.1		n.s 9.70 a.	1.38
16	6.4	7.2	6.60	2	2 4.80	10.1?			
17	6.7	7.2	6.95	3	2 4.68				
18	7.4	7.6	7.50	1	1 4.56				
19	7.6	7.7	7.65	0	1 4.77				
20	7.8 7.80 0 0 7.8	8.4	8.10	3	3 4.63				
23	8.4 8.40 0 0 8.4	8.6	8.50	1	1 4.84				
25	8.1 8.75 1 0 8.8	8.9	8.82	07	08 5.05				
26	9.3 9.30 0 0 9.3	9.1	9.20	1	1 5.13				
27	9.5 9.50 0 0 9.5	9.5	9.50	0	0 5.19				
28	tel?	7							
29	1.								

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1914phae.proj.10600

Friday May 15, 1914.

Scale K Series 242

Me 5347 Gal. Pole. Alt. corr. +2°

					Curve	Magn.				Curve	Magn.
1	3.7						7.20	7.2	7.20 00	0.80	8.00
2	4.6				H.37	8.97	8.1	8.3	8.20 ±1	0.87	9.07
3	5.4				H.69	9.99	9.3	9.3	9.30 00	1.15	10.45
4	5.9				H.68	10.58	↓	↓			↓
5	6.7				H.70	11.40					
6	7.5				H.72	12.22					
7	7.7				H.73	12.43					
8	7.7				H.73	12.43					
9	8.4				H.87	13.27					
10	8.6				H.93	13.53					
11	8.8	8.8	8.80 00		H.98	13.78					
12	8.8	8.8	8.80 00		H.98	13.78					
13	9.5	9.6	9.55 ±0		5.18	14.73					
14	9.6	9.5	9.55 ±1		5.18	14.73					
15	9.8	9.7	9.75 ±1		5.23	14.98					

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1914phae.proj.10600

Friday, May 15, 1914.

Scale K Series 42 copied Card.

Mc 5348 81 K. Alt. core + 17

					Oc.			Curve	Magn.
1	B.				5.4	5.4	5.40 oo	0.65	6.05
2	3.6				6.7	6.7	6.70 oo	0.77	7.47
3	4.7		H.40	9.10	8.8	8.7	8.75 o±	0.99	9.74
4	5.5		H.61	10.11	9.5	9.5	9.50 oo	1.23	10.73
5	6.2		H.70	10.90	9.6	9.6	9.60 oo	1.27	10.87
6	5.7		H.65	10.25	9.5	9.3	9.40 o±	1.19	10.59
7	6.4		H.71	11.11	10.0	10.0	10.00 oo	.	.
8	6.5		H.70	11.20					
9	6.4		H.71	11.11					
10	6.7		H.70	11.40					
11	6.7		H.70	11.40					
12	7.4		H.71	12.11					
13	7.5	7.5	7.50 oo	H.72	12.22				
14	7.7	7.7	7.70 oo	H.74	12.44				
15	8.4	8.6	8.50 o±	H.91	13.41				
16	8.7	8.9	8.80 o±	H.98	13.78				
17	9.4	9.4	9.40 oo	5.14	14.54				
18	m.s.								

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1914phae.proj.10600

Friday May 15, 1914 -

Scale K Series 242 Card.

MC 5349. R Ursa Maj. Alt corr. +.15

				Curve	Magn.		O.C.		Curve	Magn.	Mean magn.
1	3.4			.	.	6.4	6.6	6.50 ± 1	0.76 5.26	7.26	7.26 a
2	3.1			.	.	7.6	7.6	7.60 ∘∘	0.83	8.43	8.43 a
3	4.5			4.34	8.84	8.3	8.4	8.35 ± 0	0.90	9.25	9.04 20 21
4	5.9			4.56	9.86	9.1	9.1	9.10 ∘∘	1.09	10.19	10.02 16 17
5	5.9			4.68	10.58	9.7	9.7	9.70 ∘∘	1.31	11.01	10.58 a (43)
6	6.3			4.71	11.01	m.s.					
7	7.1			4.73	12.43						
8	8.4			4.87	13.27						
9	8.1			4.95	13.65						
10	8.9	8.8	8.85 ± 0	4.99	13.84						
11	9.4	9.4	9.40 ∘∘	5.14	14.54						
12	9.4	9.4	9.40 ∘∘	5.14	14.54						
13	9.4	9.5	9.45 ∘ 1	5.15	14.60 ~~55~~						
14	9.8	9.7	9.75 ∘ ±	5.23	14.98						
15	m.s.										
6a	6.6			4.70	11.30						
6b	7.4			4.71	12.11						

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1914phae.proj.10600

Friday May 15, 1914

Scale K

Series 242

MC 5350 13 0 +7 0.0 Alt. corr. +17

O.C.

			Curve	Magn.				Curve	Magn.
1	3.9		.	.	7.6	7.7	7.65 01	0.84	8.49
2	4.1		4.21	8.31	8.4	8.4	8.40 00	0.91	9.31
3	4.5		4.34	8.84	8.5	8.6	8.55 10	0.93	9.48
4	5.9		4.68	10.58	10.0	9.9	9.95 01	1.04	10.99
5	6.1		4.70	11.40					
6	7.3		4.70	12.00					
7	7.4		4.71	12.11					
8	7.6		4.72	12.32					
9	8.1		4.80	12.90					
10	8.5		4.91	13.41					
11	8.5	8.4 8.45 10	4.89	13.34					
12	8.8	8.8 8.80 00	4.98	13.78					
13	9.3	9.4 9.35 10	5.12	14.47					
14	9.4	9.5 9.45 01	5.15	14.60					
15	9.5	9.6 9.55 10	5.18	14.73					

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1914phae.proj.10600

Friday, May 15, 1914.

Scale K

Series 242 -

	mc 5351	Pole -	P.C -
5			5.1
6			6.4
8			7.4
9			8.4
10	4.8		8.4
11	5.3		8.8 8.6 (8.70 11)
12	5.4		8.1 8.8 (8.75 10)
13	5.1		9.4
14	6.0		9.5
15	6.4		n.s.
16	6.8		
17	7.2		
18	7.6		
19	7.7		
20	8.4		
23	8.6		
25	8.9		
26	9.1		
27	9.5		
28	9.		

See page 116

10.30

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1914phae.proj.10600

Monday May 18, 1914.

Scale U

Series 472. 2nd half.

9:45 MC 53.51 Pole

			MC 5357	Mean.	Diff.	O.C.	MC 5957	Mean.	Diff.
5						5.7	6.10	5.90 20 20	0.59
6						6.4 6.4	6.40 00	6.75	6.58 18 17	0.53
8						7.5 7.6	7.55 10	7.65	7.60 05 05	0.63
9						8.4 8.4	8.40 00	8.40	8.40 00 00	0.43
10	4.7		4.9	4.80 11	4.22	8.4 8.4	8.40 00	8.40	8.40 00 00	0.62
11	4.9		5.3	5.10 22	4.45	8.7		8.7	8.70 00	0.85
12	5.4		5.6	5.50 11	4.36	8.7 low		9.1	8.90 22	0.96
13	5.8		5.9	5.85 01	4.45	9.4		9.6	9.50 11	0.80
14	5.8		6.6	6.20 44	4.45	9.5		N.S.	9.50 ∧.	1.15
15	6.4		6.8	6.60 22	4.48	N.S.		N.S.	N.S.	
16	6.7		7.2	6.95 32	4.45					
17	7.2		7.4	7.30 11	4.33					
18	7.6		7.7	7.65 01	4.41					
19	7.6		8.1	7.85 23	4.57					
20	8.4		8.4	8.40 00	4.33					
23	8.6	8.6 8.60 00	8.60	8.60 00 00	4.74					
25	8.8	9.1 8.95 21	9.00	8.98 03 02	4.89					
26	9.1	9.2 9.15 10	9.35	9.25 10 10	5.08					
27	9.5	9.4 9.45 10	9.45	9.45 00 00	5.24					
28	10.0	10.0 10.00 00	9.80	9.90 10 10	5.21					
29			F	F	F					

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Monday May 18, 1914.

Scale N

Series 242 - Card.

MC 5352

δ Bootis Alt. corr. +2.1

O.C.

			Curve	Magn.				Curve	Magn.
1	3.7		.	.	6.7	6.8	6.75 ±0	0.58	7.33
2	4.5		H.23	8.73	8.4	8.4	8.40 ±0	0.67	9.07
3	5.5		H.38	9.88.	9.1	9.4	9.25 ±2	0.93	10.18
4	5.7		H.38	10.08	9.5	9.6	9.55 ±0	1.06	10.61
5	6.5		H.40	10.90	f.	f.		f	f
6	7.4		H.43	11.83					
7	7.9		H.50	12.40					
8	8.4		H.65	13.05					
9	8.5		H.69	13.19					
10	8.8	8.8 8.80 ±0	H.81	13.61					
11	9.4	9.3 9.35 ±1	5.04	14.39					
12	9.7	9.7 9.70 ±0	5.21	14.91					
13	9.6	9.6 9.60 ±0	5.16	14.76					
Faint 14	10.0	10.0 10.00 ±0	5.87	15.37					
15	f.								

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1914phae.proj.10600

Monday May 18, 1914 –

Scale U

Mc 5353 — R Can. Ven. — 13 36 + 40 — Series 242 –

abt. corr. +.22

				Curve	Magn.	P.C.			Curve	Magn.
too far from c.	c	a	.	.	D	~~7.4~~ 7.3	7.4		0.58	7.98
	b	f	3.1	.	.	7.4	7.6	7.50 ±1	0.59	8.09
	a	c	.	.	D	7.3	7.4	7.35 ±0	0.58	7.93
	d	d	3.8	.	.	7.4	7.6	7.50 ±1	0.59	8.09
	f	e	~~4.3~~ 4.6	.	.	~~7.1~~ 7.6	7.8	7.75 ±0	0.66	8.35
	e	g	4.6	4.25	8.85	8.5			0.70	9.20
	g	g	4.8	4.29	9.09	8.1			0.74	9.44
	h	h	5.4	4.37	9.77	9.4			0.99	10.39
	k	k	5.5	4.37	9.87	9.4			0.99	10.39
	l	l	5.5	4.37	9.87	9.5			1.03	10.53
	n	m	~~6.3~~ 6.3	4.40	10.70	9.8			.	.
	m	n	5.8	4.38	10.18	9.1			10.11	10.81
	p	o	~~6.4~~ 6.4	4.40	10.80					
	o	p	~~6.6~~ 6.6	4.41	11.01					
	q	q	7.2	4.42	11.62					
	t	r	7.4	4.43	11.83					
	r	s	7.1	4.46	12.16					
	s	t	~~7.1~~ 7.1	4.46	12.16					
	u	u	8.3	4.62	12.92					
	w	v	8.6	8.6	8.60 ±0	4.73	13.33			
	x	x	8.9	8.8	8.85 ±0	4.82	13.67			
	y	y	8.6	8.9	8.75 ±1	4.77	13.52			
	z	z	9.3	9.4	9.35 ±0	5.03	14.38			
	α	α	10.1	10.0	10.05 ±0	5.11	15.46			

see also next page

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1914phae.proj.10600

Monday May 18, 1914.

Scale — Series 242. Card.

~~Scale~~ Mc 5353 cont. R Cam. View.

alt corr. + .22

			Curve	Magn.	P. D.			Curve	Magn.
15 plates selected for Centre of fol.	1	4.8	4.29	9.69	8.7	8.70	8.7	0.74	9.44
	2	5.5	4.87	9.87	9.4	9.40 00	9.4	0.99	10.39
	3	5.9	4.89	10.29	9.7	9.60 1/2	9.5	1.08	10.68
	4	6.6	4.41	11.01	10.0	10.00 00	10.0	.	.
	5	7.4	4.43	11.83	n.d.			.	.
	6	8.3	4.62	12.92					
	7	8.6	4.73	13.33					
	8	8.6	4.76	13.46	8.70 1/2		8.8		
	9	9.4	5.06	14.46	9.40 00		9.4		
	10	9.5	5.11	14.61	9.50 00		9.5		
	11	9.9	5.31	15.21	9.90 00		9.9		
	12	10.0	5.87	15.87	10.00 00		10.0		
	13	Fl	∫						
	14	Fl	∫						
	15	Def.							

J. E. S.

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1914phae.proj.10600

Monday May 18, 1914

Scale 4. Series 242 Card.

Nb 5354 $15^h\ 10^m$ + 25° Abt. corr. +.20

		Curve	Magn.	Plb.	Curve	Magn.
1	B.	.	.	5.9 5.90 00 5.9	0.54	6.44
2	5.0	H.32	9.32	8.6 8.55 10 8.5	0.71	9.26
3	5.3	H.36	9.66	8.6 8.60 00 8.6	0.72	9.32
4	6.4	H.40	10.80	10.0 9.95 02 9.9	.	.
5	7.4	H.43	11.83			
6	7.4	H.43	11.83			
7	7.6	H.45	12.05			
8	7.7	H.46	12.16			
9	8.3	H.62	12.92			
10	8.5	H.68	13.18			
11	8.6	8.60 00 8.6	H.73	13.33		
12	8.8	8.75 02 8.7	H.79	13.54		
13	9.4	9.30 12 9.2	5.01	14.31		
14	9.6	9.50 12 9.4	5.11	14.61		
15	9.9	9.75 12 9.6	5.12	14.87		

J. C. D.

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Monday May 18, 1914

Scale 11 Series 242 Card.

Nb 5355 W Coronae

		Curve	Magn.	P.b.	Curve	Magn.
a	3.7	.	.	6.6 6.60 6.6	0.58	7.18
b	3.8	.	.	7.1 7.25±2 7.4	0.58	7.83
c	4.4	.	.	7.4 7.40 7.4	0.58	7.98
d	5.1	4.34	9.44	8.5 8.55± 8.6	0.71	9.26
e	4.6	4.25	8.85	8.4 8.40 8.4	0.67	9.07
f	4.7	4.26	8.96	8.4	0.67	9.07
g	5.3	4.36	9.66	8.6	0.72	9.32
h	5.8	4.38	10.18	9.5	1.04	10.54
k	5.9	4.39	10.29	9.5	1.04	10.54
l	6.6	4.41	11.01	9.8	.	.
m	6.8	4.41	11.21	9.4	.	F
n	7.4	4.43	11.83			
o	7.6	4.45	12.05			
p	8.1	4.55	12.65			
q	8.5 8.45± 8.4	4.67	13.12			
r	8.7 8.65± 8.6	4.76	13.41			
s	9.4 9.40 9.4	5.06	14.46			
t	9.5 9.50 9.5	5.11	14.61			
u	10.0 9.95± 9.9	5.34	15.29			
Var	3.7					

4.6.8

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1914phae.proj.10600

Monday May 18, 1914

Series 242 Cards.

M Le 53 55 U Coronal alt. corr. +.22

			Curve	Magn.	P.D.		Curve	Magn.
1	3.9				7.4 7.4	7.40 °°	0.58	7.98
2	4.6		H.24	8.84	8.4 8.4	8.40 °°	0.67	9.07
3	5.2		H.34	9.54	8.6 8.6	8.60 °°	0.72	9.32
4	6.4		H.40	10.80	9.6 9.6	9.60 °°	1.08	10.68
5	6.6		H.41	11.01	9.7 9.6	9.65 1° Por	1.09	10.74
6	6.8		H.42	11.22				
7	7.4		H.43	11.83				
8	7.7		H.46	12.16				
9	8.4		H.65	13.05				
10	8.5		H.69	13.89				
11	8.6	8.60 °° 8.6	H.72	13.32				
12	8.7	8.65 1° 8.6	H.75	13.40				
13	9.4	9.40 °° 9.4	5.06	14.46				
14	9.5	9.45 1° 9.4	5.08	14.53				
15	9.5	9.55 1° 9.6	5.13	14.68				

J.E.D

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1914phae.proj.10600

Monday May 18, 1914

Scale 11. Lepaid Series 242 Card

Pole 5356 R Leamed alt. cor. +0.8

		Curve	Magn.			Curve	Magn.
a	3.9			7.4 7.40 00 7.4		0.58	7.98
a1	4.6	4.24	8.84	*8 8.40 00 8.4		0.66	9.06
b	5.1	4.34	9.44	8.75 01 8.7		0.76	9.51
c	5.2	4.35	9.55	8.6 8.60 00 8.6		0.72	9.32
d	5.8	4.38	10.18	9.4 9.45 01 9.5		1.00	10.45
e	6.4	4.40	10.80	h.d. h.d.		.	
f	6.4	4.40	10.80	9.5 9.50 00 9.5		1.03	10.53
g	6.8	4.42	11.22				
h	7.4	4.43	11.83				
h1	7.6	4.45	12.05				
k	7.8	4.48	12.28				
l	8.4	4.65	13.05	Remeasured Jan. 5, 1915 Recorder G.T.M.			
m	8.4	4.65	13.05			8.4	
**	~~8.65 05~~ 8.4	4.65	13.05		**	8.3	
n	8.9	~~4.75~~	~~13.40~~				
o	8.9	4.81	13.61			8.8	
p	9.3	5.01	14.81			9.2	
q	9.5	5.09 6.11	14.56 4				
r	9.4	5.06	14.46				
Var	6.4	4.40	10.80				
t2	6.6	4.40	11.00				
Off of Plate a							
B	B	.	.	5.6 5.6 5.60 00		.	.
T	3.8	.	.	7.3 7.3 7.30 00		0.88	7.88

** Star n Reject first measure 8.9 which is certainly wrong.
H.S.L. Jan. 7, 1915

* Remeas. June 11, 1914.
8.4 Evidently wrong unit above.

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1914phae.proj.10600

Monday May 18, 1914

Series 242 Cardi

M to 5356 R Camelop. alt. corr. +.08

			Curve	Magn.	P.C.			Curve	Magn.
1	4.7		4.26	8.96	7.7	8.0	7.90 ~~1.85~~ 1.82	0.60	8.45
2	5.3		4.36	9.66	8.7	8.7	8.70 .00	0.74	9.44
3	6.3		4.40	10.70	9.5	9.5	9.50 .00	1.03	10.53
4	6.6		4.40	11.00	9.7				
5	6.8		4.41	11.21					
6	7.7		4.46	12.16					
7	8.3		4.62	12.92					
8	8.4		4.65	13.05					
9	9.1		5.04	14.14					
10	9.4	9.4	9.40 .00	5.06	14.46				
11	9.5	9.5	9.50 .00	5.11	14.61				
12	9.6	9.5	9.55 .01	5.13	14.68				
13	9.8	9.7	9.75 .01	5.24	14.99				
14	10.0	9.8	9.90 .11	5.31	15.21				
15	D.p.	D.p.							

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1914phae.proj.10600

Monday May 18, 1914

Scale 11. Series 2142

	m b. 5357	Pole	P. le.			
5			6.1	6.1	6.10	00
6			6.8	6.7	6.75	0±
8			7.7	7.6	7.65	10
0			8.4	8.4	8.40	00
10	4.9		8.4	8.4	8.40	00
11	5.3		8.7			
12	5.6		9.1			
13	5.9		9.6			
14	6.6		n.s.			
15	6.8		n.s.			
16	7.2					
17	7.4					
18	7.7					
19	8.1					
20	8.4					
23	8.6	8.6	8.60	00		
25	8.9	9.1	9.00	±1		
26	9.4	9.3	9.35	0±		
27	9.5	9.4	9.45	10		
28	9.9	9.7	9.80	1±		
29	?					
30						

9.6.s.
11.52

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1914phae.proj.10600

Monday, May 25, 1914.

Scale K
1:50

Remeasured of ft. stars in K Regions.

mc 2647 74K

					Diff.	Curve magn.	P.C.				
4	6.3	6.3	6.30	.00	3.57	3.60	9.90	9.1	9.8	9.75	.10
5	6.5	6.5	6.50	.00	3.64	3.60	10.10				
5a	7.4	7.4	7.40	.00		3.57	10.97				
6a	7.6	7.7	7.65	.01		3.54	11.19				
7	7.7	7.7	7.70	.00	3.55	3.54	11.24				
8	8.2	8.2	8.20	.00	3.46	3.46	11.66				

mc 2678 74K.

					Curve magn.							Curve magn.	
4	4.9	4.7	4.80	.1	5.07	5.00	9.80	8.5	8.6	8.55	.10	1.32	
5	5.3	5.4	5.35	.10	4.79	5.10	10.45	8.7	8.6	8.65	.10	1.49	
5a	5.7	5.7	5.70	.00		5.14	10.84	9.5	9.4	9.45	.10		E
6a	6.1	6.0	6.05	.10		5.22	11.27	9.8	9.9	9.85	.01		E
7	5.9	5.9	5.90	.00	5.35	5.20	~~10.55~~ 11.10	n. s.					
8	6.4	6.5	6.45	.01	5.21	5.27	11.72						

Stars 5a and 6a inserted to replace original No. 6. Assume mean magn. for 4, 5, 7, and 8, plot with differences readings, and correct ~~read off~~ magn. of 5a and 6a from smooth curve.

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1914phae.proj.10600

Monday May 25, 1914.

Scale U — Remeasures of ft. stars.

MC 3942 — 9+K. Pole.

Mean Feb. 25, 1915 Delay reduction of these descendant Pole plates

18	7.1	7.1	7.70	00	6.70
19	8.1	8.3	8.20	11	7.10
20	8.4	8.4	8.40	00	7.50
~~12~~ 11					
~~12~~					
23	8.1	8.1	8.70	00	8.35
~~14~~					
25	8.9	8.8	8.85	10	9.00
26	9.4				9.60
27	9.7	9.8	9.75	10	~~9.00~~ 10
28	9.8	10.0	9.90	11	
29	10.1?	F.			

MC 3943 — 9 1K.

8	7.9	7.8	7.9	7.8	7.85	10
9	8.4	8.4	8.4	8.4	8.40	00
10	8.6	8.6	8.6	8.7	8.65	01
11	8.4	8.4	8.8	8.8	8.80	00
12	9.4	9.4	9.1	9.3	9.20	11
13	9.4	9.5	9.6	9.7	9.65	01
14	9.8	9.7	9.8	9.9	9.85	01
15	10.1	10.1	10.1	10.1	10.10	00

w.s.

MC 3948 — Pole.

18	6.8	6.6	6.70	11
19	7.1	7.1	7.10	00
20	7.5	7.5	7.50	00
23	8.4	8.3	8.35	01

Dewy Loon.

25	9.2	8.8	poor. 9.00	22	
26	9.6	9.6	9.60	00	
27	10.0	10.0	10.00	00	
28					

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Monday, May 25, 1914.

St. stars remeasured.

Series 144 MC 4065 Pole. Pole not in centre.

					MC 4071	Mean	Diff.	
Inv. poor.	18	7.1	7.2	7.15 .0	7.15	7.15 .000	4.91	
	19	7.4	7.4	7.40 .00	7.40	7.40 .000	5.02	
	20	7.8	7.7	7.75 .05	7.60	7.68 .07 .08	5.05	
	23	8.6	8.5	8.55 .05	8.30	8.42 .13 .12	4.92	
	25	9.2	9.1	9.15 .05	8.65	8.90 .25 .25	4.97	
	26	9.7	9.6	9.65 .0	8.80	9.22 .43 .42	5.11	
	27	9.7	9.1	9.70 .00	9.40	9.55 .15 .15	5.14	
	28	±			9.75	9.75 . a	5.36	
					9.95	9.95 . a	5.71	

MC 4066 91K-

					Curve	Magn.	
" " !	8	7.4	7.5	7.45 .05	4.97	12.42	
	9	7.7	7.9	7.80 .10	4.97	12.77	
	10	8.3	8.4	8.35 .10	4.97	13.32	
	11	8.6	8.6	8.60 .00	4.98	13.58	
	12	8.9	8.9	8.90 .00	5.01	13.91	
	13	9.3	9.3	9.30 .00	5.10	14.40	
	14	9.7		9.7 a	5.33	15.03	
	15	9.7	9.8	9.75 .10	5.37	15.12	

alt. corr. +.16

Copied

MC 4071 Pole.

	18	~~7.2~~	7.1	7.15 .05
	19	7.4	7.4	7.40 .00
	20	7.6	7.6	7.60 .00
	23	8.2	8.4	8.30 .10
	25	8.6	~~8.8~~ 8.7	8.65 .05
	26	8.8	8.8	8.80 .00
	27	9.4	9.4	9.40 .00
poor.	28	9.8	9.7	9.75 .05
"	29	9.9	10.0	9.95 .10
	30	±		

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Tuesday
Monday May 6, 1914.

Scale U Yt. Stars remeasured.

9.10	Series	40	mc 2773			mc 2779	Pole mean		Diff.
	16	7.3	7.3	7.30	00	7.25	7.28	02 03	4.12
	17	7.4	7.4	7.40	00	7.40	7.40	00 00	4.23
	18	8.1 7.9	7.9	8.00	11	7.80	7.90	10 10	4.16
	19	8.3	8.3	8.30	00	8.40	8.35	05 05	4.07
	20	8.6	8.1	8.65	01	8.60	8.62	03 02	4.11
	23	9.3	9.4	9.35	10	9.20	9.28	07 08	4.06
	25	9.7	9.7	9.70	00	9.65	9.68	02 03	4.19
	26	10.1	10.1	10.10	00	10.10	10.10	00 00	4.23
	27								
	~~28~~	mc 2777				106 K. Curve	magn.		
	11	8.3	8.2	8.25	10	4.14	12.39		
	12	8.4	8.4	8.40	00	413	12.53		
	13	8.6	8.6	8.60	00	4.12	12.72		
	14	8.7	8.7	8.70	00	4.12	12.82		
	15	8.6	8.6	8.60	00	4.12	12.72		
	16	9.5	9.4	9.45	10	4.14	13.59		
	17	9.5	9.5	9.50	00	4.15	13.65		
from.	18	9.6	9.6	9.60	00	4.16	13.76		
	19	9.9	9.9	9.90	00	4.19	14.09		
	20	~~7.~~	~~7.~~						
	21	mc 2779				Pole -			
	16	~~mc 27~~		7.25	10				
	17	7.4	7.4	7.40	00				
	18	7.8	7.8	7.80	00				
	19	8.4	8.4	8.40	00				
	20	8.6	8.6	8.60	00				
from	23	9.2?	9.2	9.20?	00				
	25	9.6	9.7	9.65	01				
	26	10.1	10.1	10.10	00				

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1914phae.proj.10600

Tuesday May 26, 1914.

Scale K Remeasured 11 faint stars.

Series 68	MC 3120				MC 3126	Pole mean		Diff.
16	7.21	7.21	7.20	.00	7.45	7.32	.12 .13	4.08
17	7.4	7.4	7.40	.00	7.65	7.52	.12 .13	4.11
18	8.1	8.1	8.10	.00	8.30	8.20	.10 .10	3.86
19	8.5	8.5	8.50	.00	8.60	8.55	.05 .05	3.87
20	8.6	8.6	8.60	.00	8.70	8.65	.05 .05	4.08
23	9.4	9.5	9.45	.01	9.40	9.42	.03 .02	3.92
25	9.8	9.8	9.80	.00	10.15	9.98	.18 .17	3.89
26	10.0	10.1	10.25	.01		10.05		4.28

MC 3123 106 K.
curve magn.

11	8.4	8.5	8.45	.01
12	8.6	8.6	8.60	.00
13	8.7	8.8	8.75	.10
14	8.9	9.2	9.05	.12
15	8.8	8.9	8.85	.01
16	9.6	9.6	9.60	.00
17	9.7	9.7	9.70	.00
18	f.	f.		

MC 3126 : Pole.

16	7.4	7.5	7.45	.01
17	7.7	7.6	7.65	.10
18	8.3	8.3	8.30	.00
19	8.6	8.6	8.60	.00
20	8.7	8.7	8.70	.00
23	9.4	9.4	9.40	.00
25	10.1	10.2	10.15	.10
26	tf.			

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1914phae.proj.10600

Tuesday May 26, 1914.

Scale U Remeasures of faint stars.

Mc 3578 111 K-

					mean magn.	Diff.
6	7.4	7.4	7.40	.00	10.80	3.40
7	7.2	7.2	7.20	.00	10.67	3.47
8	7.8	7.7	7.75	.05	11.41	3.66
9	8.3	8.2	8.25	.10	11.83	3.58.
10	8.6	8.7	8.65	.05		
11	8.9	9.0	8.95	.10		
12	9.3	9.4	9.35	.10	13.42	4.07
13	9.4	9.3	9.35	.05	13.33	3.98
14	9.5	9.6	9.55	.10	13.50	3.95
15	9.8	9.8	9.80	.00	13.92	4.12

Remeasured for Nos. 10 and 11, which were changed. When mean magnitudes have been obtained for this region, assume them for the other stars, plot in the usual way, and read off magn. of Nos. 10 and 11 from resulting curve.

H.S.L. Oct. 14, 1914

10:30.

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1914phae.proj.10600

Wednesday May 27, 1914.

Series 137

Scale K 10:27

Remeasures of stars in K Regions.

MC 3985 Pole.

				MC 3990 mean p 140	Diff.	B.C.			MC 3990 mean		Diff.
5						6.5	6.6	6.55 ±0	6.35	6.45 10 10	0.04
6						7.2	7.1	7.15 01	7.05	7.10 05 05	0.01
8						8.2	8.3	8.25 01	8.15	8.20 05 05	0.03
9						8.6	8.7	8.65 01	8.65	8.65 0000	0.18
10	5.0			4.8	4.90 11 4.12	8.6	8.7	8.65 01	.	8.65 a 9.4 a	0.37
11	5.7			4.8	5.25 54 4.30	9.4			(8.6?) (see note on p 140)	9.00? 4 1/2	0.55?
12	5.8	6.0	5.90 11	5.4	5.65 25 25 4.21	9.86			9.4	9.50 12	0.36
13	6.4			5.9	6.15 23 4.15	9.8			10.0	9.90 11	0.40
14	6.6			6.3	6.45 21 4.20	f.					
15	7.3			6.6	6.95 34 4.13						
16	7.4			6.9	7.15 23 4.25						
17	7.7			7.4	7.55 12 4.08						
18	7.9			7.7	7.80 11 4.26						
19	8.5			8.2	8.35 12 4.07						
20	8.6	8.6	8.60 00	8.40	8.50 10 10 4.23						
23	8.8	8.8	8.80 00	9.00	8.90 10 10 4.44						
25	def.	def.		9.55	9.55 . 4.32						
26	9.6	9.6	9.60 00	9.70	9.65 05 05 4.68						
27	9.9	9.8	9.85 10	10.0	9.92 07 08 4.77						
28	.	f.									
29											
30											

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1914phae.proj.10600

Wednesday May 27, 1914.

Series 137

Scale U Remeasures of stars in K Regions.

Mc 3989) 7K.

				Curve	Magn.				Curve	Magn.
1	4.7			4.20	8.90	8.6	8.6	8.60 :0	0.14	8.74
2	5.3			4.20	9.50	9.1	9.2	9.15 :0	0.23	9.38
3	5.8			4.18	9.98	9.6	9.8	9.70 :1	0.36	10.06
4	6.3			4.18	10.48.	J.				
5	6.7			4.17	10.87					
6	7.0			4.18	11.18					
7	7.6			4.18	11.78					
8	7.7			4.18	11.88					
9	8.1			4.20	12.30					
10	8.6			4.26	12.86					
11	8.8	8.8	8.80 :0	4.29	13.09					
12	9.4	9.3	9.35 :1	4.44	13.79					
13	9.5	9.4	9.45 :0	4.48	13.93					
14	9.7	9.6	9.65 :0	4.55	14.20					
15	9.8	9.9	9.85 :1	4.68	14.53					

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Wednesday May 27, 1914.

Series 137

Scale U Remeasures of stars in 12 Regions.

MC 3990 Pole.

Copied p 138

			B.C.	P.C.	
5			6.3	6.4	6.35 1.0
6			6.8	7.3	7.05 ≡3
8			8.1	8.2	8.15 1.0
9			8.6	8.7	8.65 01
10	4.8		def.	def.	
11	4.8		8.6? large.	8.6? a. defective?	*
12	5.4		9.4	9.4 a.	
13	5.9		10.0	10.0 a.	
14	6.3		1.		
15	6.6				
16	6.9				
17	7.4				
18	7.7				
19	8.2				
20	8.4	8.4 8.40 .0			
23	9.2	8.8 9.00 ≡2			
25	9.5	9.6 9.55 1.0			
26	9.7	9.1 9.70 .0			
27	10.0	n.s. 10.0 a.			

*Reject this measure.
H. S. L. Oct. 22, 1914

11:

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1914phae.proj.10600

Wednesday May 27, 1914.

Scale U
11:45

Remeasures of stars in K Regions.
MC 4148 & Pole.

Series 151

		MC 4153	Mean.		Diff.
5					
6					
8					
9					
10	4.5	4.6	4.50	00	4.52
11	4.8⁶	4.7	4.65	01	4.90
12	4.8	5.0	4.90	1 1	4.96
13	5.4	5.5	5.45	01	4.85
14	5.6	5.7	5.65	01	5.00
15	6.4	6.2	6.30	1 1	4.78
16	6.5	6.5	6.50	00	4.90
17	6.7	6.6	6.65	10	4.98
18	7.4	7.4	7.40	00	4.66
19	7.6	7.65	7.62	02 03	4.80
20	7.8	7.70	7.75	05 05	4.98
23	8.4 (8.45 0.1) 8.5	8.5	8.48	03 02	4.86
25	8.8 (8.80 0.0) 8.8	8.80	8.80	00 00	5.07
26	9.2 (9.25 0.1) 9.3	9.05	9.15	10 10	5.18
27	9.5 (9.55 1.0) 9.6	9.40	9.48	07 08	5.21
28	9.7 (9.75 1.0) 9.8	9.60	9.68	07 08	5.43
29	F. F.	9.95	9.95	. a	5.71
30		n.s.			

P.C.		Mean			Diff.
5.9	6.05 1.2 6.2	5.75	5.90	15 15	+0.59 −0.44
6.5	6.45 1.0 6.4	6.45	6.45	00 00	0.66
7.6	7.60 0.0 7.6	7.65	7.62	02 03	0.61
8.1	8.10 0.0 8.1	8.35	8.22	12 13	0.61
8.1	8.15 1.0 8.2	8.40	8.28	13 12	0.74
def.		8.7	8.70	. a	0.85
8.9		8.8?	8.85	1 0	1.01
9.5		9.7	9.60	1 1	0.70
9.7		9.75	9.72	02 03	0.93
def.?		n.s.			
n.s.					

4.8 = W.S.

914

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Wednesday May 27, 1914

Series 151

Scale K. Remeasures of stars in K Regions. Copied

Mc 4149 17K. Alt. Cor. +.16

P.C.

					Curve	Magn.				Curve	Magn.
1	3.2				.	.	7.6	7.6	7.60 .0	0.69	8.29
2	4.5				4.83	9.33	8.7	8.6	8.65 .0	0.78	9.43
3	4.8				4.87	9.67	9.4	9.4	9.40 .0	0.86	10.26
4	5.1				4.88	9.98	9.8	9.5–9.6	9.63 2:0	0.90	10.53
5	5.4				4.89	10.29	10.0	10.0	10.00 .0	0.95	10.95
6	6.0				4.87	10.87					dW
7	6.1				4.87	10.97					
8	7.4				4.83	12.23					
9	7.6				4.84	12.44					
10	8.2				4.92	13.12					
11	8.3	8.3	8.30 .0		4.93	13.22					
12	8.9	8.9	8.90 .0		5.07	13.97					
13	9.2	9.3	9.25 .1		5.17	14.42					
large image. 14	9.6	9.6	9.60 .0		5.37	14.97					
" " 15	9.7	9.7	9.70 .0		5.42	15.12					
						dW					

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1914phae.proj.10600

Wednesday May 27, 1914.

Series 151

Scale K Remeasures of stars in K Regions.

MC 4153 Pole

				P.C.	~~Curve~~ ~~Mag~~.
5		~~Curve~~ ~~Mag~~.		5.7 5.75 5.8	0.65
6				6.4 6.45 6.5	0.68
8				7.6 7.65 7.7	0.70
9				8.4 8.35 8.3	0.75
10	4.5	4.83	9.33	8.4 8.40 8.4	0.76
11	4.7	4.86	9.56	8.7	0.79
12	5.0	4.88	9.88	8.8? def?	0.80
13	5.5	4.89	10.39	9.7	9.90
14	5.7	4.88	10.58	9.7 9.75 9.8	9.90
15	6.2	4.87	11.07	n.s.	n.s.
16	6.5	4.85	11.35		
17	6.6	4.84	11.44		
18	7.4	4.83	12.23		
19	7.7 7.65 7.6	4.84	12.49		
20	7.6 7.70 7.8	4.85	12.55		
23	8.5	4.97	13.47		
25	8.8 8.80 8.8	5.04	13.84		
26	8.9 9.05 9.2	5.11	14.16		
27	9.4 9.40 9.4	5.26	14.65		
28	9.6 9.60 9.6	5.37	14.97		
29	10.0 9.95 9.9	5.47	15.42		
30	n.s.				

12:20-

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1914phae.proj.10600

Friday, June 5, 1914.

Scale K Remeasures of ~~Zero~~ K Regions. (Series 103)
Pole

11:05 Series 103 Mc - 3607

			mC 3613 p 146						mC 3613 p 146	mean	Diff.
				mean	Diff.						
5						5.9	6.4	6.15 3 2	6.45	6.30 15 15	0.19
6						6.4	6.6	6.50 ±1	6.65	6.58 08 07	0.53
8						7.8	7.7	7.75 01	8.00	7.88 13 12	0.35
9						8.3	8.4	8.35 ±0	8.60	8.48 13 12	0.35
10	4.4		4.0	4.20 2 2	4.82	8.3	8.4	8.35 ±0	8.65	8.50 15 15	0.52
11	4.6		4.4	4.50 1 1	5.05	8.6			9.2	8.90 3 3	0.65
12	4.8		4.6	4.70 1 1	5.16	9.1			9.8	9.45 3 4	0.41
13	5.3		4.9	5.10 2 2	5.20	9.6			9.9	9.75 2 1	0.65
14	5.6		5.1	5.35 2 3	5.30	9.6			10.1	9.85 2 3	0.85
15	5.8		5.5	5.65 2 1	5.43	9.8				9.8 a.	1.28
16	6.1		5.7	5.90 2 2	5.50						
17	6.4		6.3	6.35 0 1	5.28						
18	7.1		6.6	6.85 3 2	5.21						
19	7.3		7.2	7.25 1 0	5.17						
20	7.6		7.70	7.65 0 1	5.08						
23	8.4	8.4	8.38	8.37 ..	8.40	8.38	01	02 4.96			
25	8.1	8.6	8.65	10	9.15	8.90	25	25 4.97			
26	9.3	9.3	9.30	..	9.65	9.47	18	18 4.85			
27	9.5	9.5	9.50	..	9.90	9.70	20	20 4.99			
28	9.1	9.8	9.75	±0	.	9.75	a.	4.36			
29	?										

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1914phae.proj.10600

Friday June 5, 1914.

Scale 4 Remeasures of K Regions. (Cont.)

Mc 3610 42 K

copied

alt. corr. +.23

					G.C.		
			Curve	magn.		Curve	magn.
1	3.8		.		8.4 8.4 8.40 .00	0.42	8.82
2	4.7		5.10	9.80	9.3 8.4 9.35 .10	0.52	9.87
3	4.9		5.18	10.08	9.4 9.5 9.45 .01	0.54	9.99
4	5.5		5.37	10.87	10.0 10.0 10.00 .00	0.62	10.62
5	6.3		5.33	11.63	m. 2.		
6	6.21		5.35	11.55			
7	6.8		5.23	12.03			
8	7.6		5.08	12.68			
9	8.2		4.99	13.19			
10	8.2		4.99	13.19			
11	8.9	9.1 9.00 .11	4.92	13.92			
12	9.3	9.2 9.25 .10	4.91	14.16			
13	9.6	9.7 9.65 .01	4.90	14.55			
14	9.9	9.9 9.90 .00	"	"			
15	9.8	9.9 9.85 .01	"	"			

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1914phae.proj.10600

Friday June 5, 1914.

Scale K Remeasures of K Regions.
Mc 3613 Prel.

				Dc.
5				6.5 6.4 6.45 10
6				6.6 6.7 6.65 01
8				8.1 7.9 8.00 11
9				8.6 8.6 8.60 00
10	4.0			8.7 8.6 8.65 10
11	4.4			9.2
12	4.6			9.8
13	4.9			9.9
14	5.1			10.1
15	5.5			m.s.
16	5.7			m.s.
17	6.3			
18	6.6			
19	7.2			
20	7.7	7.7	7.70 00	
23	8.4	8.4	8.40 00	
25	9.2	9.1	9.15 01	
26	9.6	9.7	9.65 01	
27	9.9	9.9	9.90 00	
28	m.s.			
29				

Copied p 144

Stars do not comfare with scale.

11:40
11:35

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1914phae.proj.10600

Friday June 5, 1914.

Scale. Remeasures of Ic Regions. (Series 149)

MC 4127 Pole.

				MC4133 p149	Mean	Diff.				
5							6.5	6.6	6.55	10
6							7.2	7.2	7.20	00
8							8.3	8.3	8.30	00
9							8.5	8.5	8.50	00
10	4.8			5.3	5.05	23	8.6	8.6	8.60	00
11	5.3			5.4	5.35	10	9.1			
12	5.4			5.3	5.35	01	9.2			
13	5.7			5.6	5.65	10	9.5			
14	6.4			6.5	6.45	01	9.8			
15	6.6			6.6	6.60	00				
16	6.7			6.8	6.75	10				
17	6.8			7.2	7.00	22				
18	7.4			7.6	7.50	11				
19	7.7			7.8	7.75	10				
20	7.9			8.4	8.15	32				
23	8.2	8.1	8.15	01	8.60	8.38	23	22	4.96	
25	8.6	8.7	8.65	01	9.30	8.98	32	32	4.89	
26	9.1	9.1	9.10	00	9.40	9.25	15	16	5.08	
27	9.4	9.5	9.45	01	9.70	9.58	13	12	5.11	
28	9.7?	def.	9.7?		10.1	9.90	2	2	5.21	
29	?									

Reject! See note in Journal

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1914phae.proj.10600

Friday, June 5, 1914.

Scale U. Remeasures of K Regions

Mc 4129 120 K.

Alt. corr. −.20

					Curve	Magn.	P.C.			
	1	4.6			4.15 E	8.75 E	9.3	9.1	9.20 1	Reject. See note in Journal.
	2	5.3			4.27	9.57	9.4	9.4	9.40 00	
	3	5.7			4.32	10.02	10.0?	10.0	10.00 00	
	4	6.6			4.49	11.09				
	5	7.3			4.60	11.90				
	6	7.4			4.62	12.02				
W.S.	7	~~7.4~~ 7.7			4.70	12.40				
	8	8.3			4.85	13.15				
	9	8.6			4.92	13.52				
	10	8.8	8.8	8.80 00	4.97	13.77				
	11	9.4	9.3	9.25 01	5.10	14.45				
	12	9.8	9.1	9.75 01	5.20	14.95				
	13	tip.	.		.	.				
front.	14	10.0	10.1?	10.05? 01	5.26	15.31?				
	15									
	~~16~~									
	17									
	18									

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1914phae.proj.10600

Friday June 5, 1914.

Scale 11 Remeasures of K Regions, Pole

MC 4, 33

P.C. ("Do" not means P.C.")

5					
6					
8					
9					
10	5.3				
11	5.4				
def? 12	5.3				
13	5.6				
14	6.5				
15	6.6				
16	6.8				
17	7.2				
18	7.6				
19	7.8				
20	8.4				
23	8.6	8.6	8.60	oo	
25	9.3	9.3	9.30	oo	
26	9.4	9.4	9.40	oo	
29	9.7	9.7	9.70	oo	
28	10.1	t.p.	10.1	ē.	
29					

copied p. 147

12 is brighter than 11.

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1914phae.proj.10600

Saturday June 6, 1914.

Scale U
10:25

Remeasures of K Regions. (Series 30)
mc 26021 Pole

			mC2607 p152	Mean	Diff.	O.C.			mC2607 p152	Mean	Diff.
5						5.5	5.5	5.50 .00	5.50	5.50 .00 .00	0.99
6						6.3	6.2	6.25 .10	6.15	6.20 .05 .05	0.91
8						7.6	7.6	7.60 .00	7.40	7.50 .10 .10	0.73
9						8.3	8.4	8.35 .10	8.25	8.30 .05 .05	0.53
10	5.1		5.2	5.15 .10	3.87	8.6	8.5	8.55 .01	8.45	8.50 .05 .05	0.52
11	5.4		5.5	5.45 .01	4.10	9.1			8.7	8.90 .20 .20	0.65
12	5.6		5.7	5.65 .01	4.21	9.4 poor			9.2	9.30 .10 .10	0.56
13	5.9		6.2	6.05 .12	4.25	9.8			9.7	9.75 .01 .01	0.55
14	6.5		6.5	6.50 .00	4.15	?					
15	6.7		6.75	6.72 .02 .03	4.36						
16	7.1		7.30	7.20 .10 .10	4.20						
17	7.4		7.4	7.40 .00 .00	4.23						
18	7.7		7.7	7.70 .00 .00	4.36						
19	8.2		8.1	8.15 .01 .01	4.27						
20	8.4	8.4	8.40 .00	8.45	8.42 .02 .03	4.31					
23	8.8	8.6 8.7	8.70 .10	8.70	8.70 .00 .00	4.64					
25	9.5	9.4	9.45 .10	9.30	9.38 .07 .08	4.49					
26	9.6	9.6	9.60 .00	9.60	9.60 .00 .00	4.73					
27	10.0	9.9	9.95 .01	9.85	9.90 .05 .05	4.79					

P.C.'s do not compare with scale.

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1914phae.proj.10600

Saturday June 6, 1914.

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Scale 11. Remeasures of K Regions. (Series 30)

Mc 2603

120 K.

alt. corr. -19

					Curve	magn.	P.C.	Curve	magn.
1	4.5				.	.	8.6	0.64	9.24
2	4.8				.	.	8.9	0.61	9.51
3	5.3				4.00	9.30	9.8	0.56	10.36
4	6.3				4.22	10.52	n.s.		
5	6.6:				4.25	10.85?			
6	7.1				4.30	11.40			
7	7.6				4.32	11.92			
8	8.5	8.6	8.55	±0	4.44	12.99			
poor 9	8.1?	8.8?	8.75	±0	4.47	13.22			
10	9.3	9.3	9.30	00	4.59	13.89			
11	10.0	9.9	9.95	0±	4.75	14.70			
12	10.0?	9.9	9.95	0±	4.75	14.70			
13									
14									

Plate is very poor. Stars not comparable with scale.

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1914phae.proj.10600

Saturday June 6, 1914.

Scale 11 Remeasures of K Regions. (Series 30)

MC 26.07 Pole.

			P.C.		
5			5.5	5.5	5.50 00
6			6.1	6.2	6.15 10
8			7.4	7.4	7.40 00
9			8.3	8.2	8.25 10
10	5.2		8.5	8.4	8.45 10
11	5.5		8.1		
12	5.1		9.2		
13	6.2		9.1		
14	6.5				
15	6.7	6.8			
16	7.3	7.3			
17	7.4 8.3				
18	7.1				
19	8.1				
20	8.5	8.4 8.45 10			
23	8.1	8.1 8.70 00			
25	9.4	9.21 9.30 11			
26	9.6	9.6 9.60 00			
27	9.9	9.8 9.85 10			
28	✓				

we. uncl.

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Saturday June 6, 1914.

Scale K Remeasures of 5 Regions (Series 44)

MC 2816 Gold

			MC2821 p155	Mean	Diff.	O.C.			MC 2821 p155	Mean		Diff.
5						5.8	5.8	5.80 00	5.70	5.75	05 05	0.74
6						6.6	6.6	6.60 00	6.55	6.58	02 03	0.53
8						7.9	8.1	8.00 11	7.75	7.88	12 13	0.35
9						8.5	8.6	8.55 10	8.40	8.48	07 08	0.35
10	5.1		4.8	4.95	12 4.07	8.6	8.6	8.60 00	8.55	8.58	02 03	0.44
11	5.4		5.1	5.25	21 4.30	9.4			9.3	9.35	01	0.20
12	5.5		5.3	5.40	11 4.46	9.5			9.6	9.55	10	0.31
13	6.3		5.6	5.95	34 4.35	10.0			9.8	9.90	11	0.40
14	6.5		6.2	6.35	12 4.30				10.2?	10.2?	?	0.45
15	6.8		6.3	6.55	23 4.53							
16	7.3		6.6	6.95	34 4.45							
17	7.6		7.3	7.45	21 4.18							
18	8.1		7.7	7.90	22 4.16							
19	8.5	8.4	8.45	10 8.20	8.32 13 12 4.10							
20	8.1	8.1	8.70	00 8.55	8.62 08 07 4.11							
23	9.3	9.3	9.30	00 9.05	9.18 12 13 4.16							
25	9.6	~~9.6~~	9.6	9.60	00 9.55 9.58 02 03 4.29							
26	9.8	9.7	9.75	01 9.85	9.80 05 05 4.53							
27	10.1				10.1 ? 4.59							

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Saturday June 6, 1914.

Scale U Remeasures of K Regions. (Series 44) Copied Bk 7: 123

Mc 2818 120 K.

alt. corr. −.31

				Curve	Magn.	B.C.			Curve	Magn.
1	5.2			4.24	9.44	8.1	8.9	8.80 ± 1	0.36	9.16
2	5.6			4.34	9.94	9.3	9.4	9.35 ± 0	0.35	9.70
3	6.1			4.40	10.50	10.0	10.0	10.00 00	0.40	10.40
4	7.3			4.26	11.56					
5	7.4			4.25	11.65					
6	7.7			4.19	11.89					
7	8.2			4.13	12.33					
8	8.6	8.6	8.60 00	4.11	12.71					
9	9.4	9.4	9.40 00	4.27	13.67					
10	9.5	9.4	9.45 ± 0	4.29	13.74					
11	10.0	10.0	10.00 00	4.52	14.52					
12	10.1	10.1	10.10 00	4.60	14.70					
13										

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Saturday June 6, 1914.

Scale U. Remeasures of K Regions (Series +4)
Mc 2821 Pole.

				Q.C.
5				5.1 5.1 5.70 .00
6				6.5 6.6 6.55 .10
8				7.7 7.8 7.75 .10
9				8.4 8.4 8.40 .00
10	4.8			8.6 ~~9.1~~ w.s. 8.5 8.55 .01
11	5.1			9.3
12	5.3			9.6
13	5.6			9.8
14	6.21			10.2?
15	6.3			
16	6.6			
17	7.3			
18	7.1			
19	8.2	8.21	8.20 .00	
20	8.6	8.5	8.55 .01	
23	9.1	9.0	9.05 .10	
25	9.5	9.6	9.55 .10	
26	9.8	9.9	9.85 .01	
27	~~7.~~			
28				

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1914phae.proj.10600

Saturday June 6, 1914.

Scale U. Remeasures p-t Regions

11:55 MC 3990 Pole

					MC3996	mean	Diff.
17	5	7.4 7.7	7.4	7.40 .00	7.45	7.42 .02 .03	4.21
18	6	7.7	7.7	7.70 .00	7.70	7.70 .00 .00	4.36
19	8	8.1	7.9	8.00 .1	8.10	8.05 .05 .05	4.37
20	9	8.4	8.4 8.6	8.47 .1	8.45	8.46 .01 .01	4.27
23	10	8.9	9.1	9.00 .1	8.80	8.90 .10 .10	4.44
25	11	9.6	9.4	9.50 .1	9.35	9.42 .08 .07	4.45
26	12	9.6	9.7	9.65 .01	9.60	9.62 .03 .02	4.71
27	1	9.9			9.95	9.95 .0	4.74

MC 3990 10 Ks.

				Curve	magn.	Alt. corr. +.22
10	7.7	7.7	7.70 .00	4.29	11.99	
11	7.8	8.1	7.95 .1	4.31	12.26	Copied
12	8.6	8.4	8.50 .1	4.40	12.90	
13	8.7	8.6	8.65 .0	4.42	13.07	
14	8.7	8.8	8.75 .0	4.44	13.19	
15	9.6	9.7	9.65 .01	4.64	14.29	
16	9.6	9.7	9.65 .01	4.64	14.29	
17	9.8	9.8	9.80 .00	4.69	14.49	
18	9.8	9.8	9.80 .00	4.69	14.49	

MC 3996 Pole.

17	7.5 7.7	7.4	7.45 .0	
18	7.7	7.7	7.70 .00	
19	8.1	8.1	8.10 .00	
20	8.4	8.5	8.45 .01	
23	8.8	8.8	8.80 .00	
25	9.3	9.4	9.35 .0	
26	9.6	9.6	9.60 .00	
27	9.9	10.0	9.95 .0	
28	10.2			

12:15

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1914phae.proj.10600

Monday June 8, 1914.

Scale ℓ Remeasures of 12 Regions
1:40 MC 2877 Pole.

					MC 2883 Mean		Diff.	MC 2877 Diff
18	8.4	8.3	8.35	01	8.60	8.48 13 12	3.58	3.71
19	8.6	8.6	8.60	00	8.70	8.65 05 05	3.77	3.82
20	8.7	8.7	8.70	00	9.35	9.02 32 33	3.71	4.03
23	9.4	9.3	9.35	01	9.55	9.45 10 10	3.89	3.99
25	9.7	9.6	9.65	10	9.70	9.68 03 02	4.19	4.22
26	9.8	9.7	9.75	01	9.80	9.78 03 02	4.55	4.58
27	10.0?	10.0	10.00	00	.	10.00 a .	4.69	4.69

MC 2880 34 K. Alt. corr. +22

					Curve	Magn.	adopt from MC 2877 only Curve	Magn.
10	8.3	8.2	8.25	10	.	.	3.69	11.94
11	8.6	8.6	8.60	00	3.64	12.24	3.79	12.39
12	8.6	8.6	8.60	00	3.64	12.24	3.79	12.39
13	9.1	9.2	9.15	10	3.85	13.00	4.00	13.15
14	9.4	9.4	9.40	00	4.00	13.40	4.13	13.53
15	9.6	9.6	9.60	00	4.16	13.76	4.27	13.87
16	9.8	9.9	9.85	01	4.46	14.31	4.52	14.37

Copied

MC 2883 Pole.

18	8.6	8.6	8.60	00
19	8.7	8.7	8.70	00
20	9.3	9.4	9.35	10
23	9.6	9.5	9.55	01
25	9.7	9.7	9.70	00
26	9.8	9.8	9.80	00
27	f.			

MC 2883 frgnd, too poor for use in series. Was not originally measured when Miss Leland measured this series.

Second reduction using MC 2877 only, made by H.S.L. Feb. 24, 1915.

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1914phae.proj.10600

Monday, June 8, 1914.

Scale 2 Remeasures of plates in 2 Regions.

Mc 2744 Pole.

	RC 7		Mean	Diff.
18	8.5	8.5	8.50 .00	3.56
19	8.6	8.6	8.60 .00	3.82
20	8.8	9.1	8.95 .21	3.78
23	9.6	9.5	9.55 .01	3.79
25	∓.	10.1?		3.77
26				
26				
27				

Mc 2749 34 K. Abt. corr. +.28

Copied

				Curve	Magn.
10	8.6	8.7	8.65 .01	2.73	11.38
11	9.3	9.2	9.25 .10	2.78	12.03
12	9.4	9.4	9.40 .00	2.78	12.18
13	9.4	9.5	9.45 .01	2.78	12.23
14	9.1	9.1	9.70 .00	2.78	12.48
15	9.8	9.9	9.85 .01	2.78	12.63
16	∓	∓			

ch. L.

Mc 2750 t. f.

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1914phae.proj.10600

Monday June 8, 1914.

Scale K Remeasures of slits in K Regions.

Mc ~~27~~ 3120 Pole.

	sc. 2		mean	Mc 3126 mean			Diff.
18	8.1	8.0	8.05 10	8.40	8.22	17 18	3.84
19	8.4	8.4	8.40 00	8.60	8.50	10 10	3.92
20	8.6	8.6	8.60 00	8.70	8.65	05 05	4.08
23	9.5	9.6	9.55 10	9.40	9.48	07 18	3.86
25	9.8	9.8	9.80 00	.	.		4.07
26	~~f.~~	~~f.~~					
27							

Mc 3125 34K. alt. cur. +.22

				Curve	magn.	
10	8.3	8.3	8.30 00	3.92	12.22	Copied
11	8.6	8.7	8.65 01	3.95	12.60	
12	9.1	9.0	9.05 10	3.96	13.01	
13	9.6	9.5	9.55 01	3.98	13.53	
14	9.8	9.9	9.85 01	3.98	13.83	
15	10.0	10.0	10.00 00	3.99	13.99	
16		m.s.				

Mc 3126 Pole.

18	8.4	8.4	8.40 00
19	8.6	8.6	8.60 00
20	8.7	8.7	8.70 00
23	9.4	9.4	9.40 00
25	~~f.~~	~~f.~~	
26			
27			

2,15

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1914phae.proj.10600

Monday June 15, 1914.

Scale U Series 65.

Mc 3080 D6 11 - 15° Att. Cor. -19

						Curve	Magn.
	27	8.4				H.~~20~~ 15	12.55 4
	28	8.8				H.11	12.91
	29	9.1				H.20	13.30
	30	9.1	9.1	9.10	0 0	H.20	13.30
*	31	8.1	8.1	8.70	0 0	H.10	~~12.80~~ *
	32	9.4	9.2	9.30	0 2	H.28	13.58
	33	9.1	9.1	9.10	0 0	H.20	13.30
two poor.	34	·					·
	35	9.1	9.1	9.70	0 0	H.48	14.18
	36	9.1	9.8	9.75	1 0	H.50	14.25
	3						

Remeas. May 6, 1915

29	9.2	
30	9.2	
31	8.8	
32	9.4	

* Star 31 appears far brighter than star 30 on this plate, but the image appears peculiar and is probably defective. Right magnitude. H. D. L. May 6, 1915

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1914phae.proj.10600

Monday June 15, 1914.

Scale X Coyaict Series 65.

MC 3081 B5 12 +45.0

B.C. Alt. Cu. +2a

		Heure	Magn.					Heure	Magn.
1	3.0	.	.	6.5	6.5	6.50	0 0	0.71	7.21
2	B	.	.	6.4	6.3	6.35	0 1	0.73	7.08
3	4.1	.	.	7.6	7.6	7.60	0 0	0.56	8.16
4	4.4	.	.	7.6	7.7	7.65	0 1	0.54	8.19
5	4.4	.	.	8.3	8.3	8.30	0 0	0.40	8.70
6	3.6	.	.	8.4				0.48	8.88
7	4.1	.	.	8.1				0.33	9.03
8	4.6	.	.	9.1				0.28	9.38
9	5.1	3.88	8.98	9.3				0.26	9.56
10	5.5	4.00	9.50	9.6				0.26	9.86
10a	5.5 5.6								
11	~~4.4~~ 4.4 5.55 1 0	4.00	9.55	~~7.6~~ 9.2				0.27	9.47
12	6.4	4.07	10.47						
13	6.6	4.07	10.67						
14	6.5	4.07	10.57						
15	6.6	4.07	10.67						
16	6.6	4.07	10.67						
17a	6.5	4.07	10.57						
17b,c	6.7	4.06	10.76						
18	7.4	4.03	11.43						
19	7.1	4.02	11.72						
20	8.2	4.03	12.23						
21	8.4	4.05	12.45						
22	8.4	4.05	12.45						
23	8.6	4.07	12.67						
24	8.1	4.10	12.80						
25	8.8	4.11	12.91						

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1914phae.proj.10600

Monday June 15, 1914.

Scale K. ~~Copied~~ Series 65

Mc 3081 B5 12 0 +45.0

Act. Cor. +12

				Curve	Magn.
26	9.1	9.3	9.20 ~~0 0~~	4.23	13.43
27	8.8	8.8	8.80 0 0	4.11	12.91
28	9.7	9.7	9.70 0 0	4.48	14.18
29	9.8	9.8	9.80 0 0	4.53	14.33
30	10.1?	10.1?	10.16 0 0	4.72	14.82

too

too

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Monday June 15, 1914.

Scale 11 — Copied — Series 65.

Mc 3082 — a 2 — 12 +15° — Aft. Cor. +.14

					Curve	Magn.	Q.C.				Curve	Magn.
	1	Q.			.	.	5.7	5.7	5.70	00	0.77	6.47
	2	3.0			.	.	6.4	6.4	6.40	00	0.73	7.13
too far from c.	3	.			.	.	6.7	6.7	6.70	00	0.70	7.40
" " "	4	.			.	.	11	6.9	7.00	11	0.66	7.66
" " "	5	.			.	.	7.5	7.5	7.50	00	0.57	8.07
" " "	6	.			.	.	7.7				0.53	8.23
	7											
	7a	3.8			:	:	7.7				0.53	8.23
	8a	4.4			:	:	8.4				0.38	8.78
	8	4.6			.	.	8.4				0.38	8.78
	9	4.6			.	.	8.5				0.36	8.86
	10	4.7			.	.	8.6				0.35	8.95
too far from c.	11	.			.	.	9.7				0.26	9.66
	12	5.4			3.98	9.38	9.6				0.26	9.86
	13	5.5			4.00	9.50	t.p.				.	.
	14	5.8			4.05	9.85	10.1?				0.29	10.39
	15	6.1			4.07	10.17						
	16	6.3			4.07	10.37						
	17				.	.						
	17a	7.3			4.03	11.33						
	18	7.5			4.02	11.52						
	19	7.7			4.02	11.72						
	20	7.4			4.03	11.43						
21a → 21b		7.7			4.02	11.72						
	21	7.7			4.02	11.72						
		8.3			4.04	12.34						
	22	8.4	8.5	8.45	01 4.05	12.50						
	23	9.3	8.8	8.9	9.00 3 21	4.16	13.16					
	24	9.4	9.2	9.30	11	4.27	13.57					
	25	9.4	9.4	9.40	00	4.32	13.72					
	26	9.7	9.7	9.70	00	4.48	14.18					
	27	∫										

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1914phae.proj.10600

Monday June 15, 1914.

Scale. Series 65.

MC 3084 Orb.

O.C.

5	21			5.7 5.6	5.65 1 0
6	28			6.4 6.4	6.40 0 0
8	29			7.7 7.7	7.70 0 0
9	30			8.5 8.6	8.55 1 0
	10	5.2		8.1 ~~9.3~~ w.s. 8.7 fuzz.	8.70 0 0
	11	5.5		9.4	9.4
	12	5.6		9.5	9.5
	13	6.4		10.0?	10.0?
	14	6.6			
	15	7.2			
	16	7.4			
	17	7.6			
	18	8.1			
	19	8.5			
	20	8.6	8.7 8.65	0 1	
	23	9.4	9.3 9.35	0 1	
	25	9.6	9.6 9.60	0 0	
	26	9.7	9.8 9.75	1 0	
	27	10.0	10.0 10.00	0 0	
	28				

See p. 160.

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Monday June 15, 1914.

Scale 11 Copied Series 65.

MC 3085 8 Hrs. Maj. Alt. Corr. +20

				Curve	Magn.	P.E. Curve	Magn.
a	3.1	6.6	6.6	6.6	6600	.070	7.30
b	3.4	7.4	7.4	7.4	7400	.060	8.00
c	3.7	7.6	7.6	7.6	7600	.055	8.15
d	3.6	8.1	8.2	8.15	10	.044	8.59
e	~~3.3~~ 3.5	7.2	7.3	7.25	01	.063	7.88
f	4.5	8.5				.036	8.86
g'	4.7	8.9				.031	9.21
g²	4.4	9.2				.027	9.47
g³	4.8	9.6				.026	9.86
h	5.6	9.7		4.01	9.61	.026	9.96
k	5.8	n.s.		4.05	9.85	.	.
l	5.4 Poor			4.07	10.37		
m	6.4			4.07	10.47		
n	7.2			4.04	11.24		
o	7.7	8.1	7.9	8.02		4.02	11.92
p	8.4	8.2	8.30	1		4.04	12.34
q	9.3	9.2	9.25	10		4.26	13.51
r	9.2	9.1	9.15	01		4.21	13.36
s	9.7	9.7	9.70	00		4.88	14.88
t	~~9.1~~		8			F	F

Var. 8.2 Poor

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1914phae.proj.10600

Monday June 15, 1914.

Copies on sheets by mt.

Scale 11 Isopied MC 30 85 — Series 65 — 7 Urs. maj. Alt. corr. +20

		O.C.		Curve	Magn.	R.G. Curve	*P. Magn.	167 Mean
a	B3	5.9	5.8 585 10	.	.	0.77	6.62	
b	3.5	7.14	7.14 7400	.	.	0,60	8.00	8.00 8.00
c	3.7	7.7	7.6 765 10	.	.	0.54	8.19	8.15 8.17
d	3.6	8.2	8.2 8200	.	.	0,38 (42)	8.58 (62)	8.59 8.60
e	3.6	7.3	7.3 7300	.	.	0.62	7.92	7.88 7.90
f	4.6	8.6		.	.	0.35	8.95	
g	4.6	8.6		.	.	0.35	8.95	
g^1	4.5	9.1		.	.	0.28	9.38	9.21 9.30
g^2	4.4	9.1		.	.	0.28	9.38	9.47 9.42
g^3	5.3	9.4		3.96	9.26	0.26	9.66	
h	5.7			4.04	9.74			
k	6.3			4.07	10.37			
l	6.8			4.06	10.86			
m	6.8 -- 6.9	685 01		4.06	10.91			
n	7.5 -- 7.4	745 10		4.03	11.48			
o	7.7			4.02	11.72			
f	8.2			4.03	12.23			
q	8.4			4.05	12.45			
r	8.5			4.06	12.56			
s	8.6			4.07	12.67			
t	9.6			4.42	14.02			
u	9.4			4.32	13.72			
w	9.7 Very Poor			4.48	14.18			

* Stars f, e, d, e, g^1, g^2 are common to both sequences (for 7 and 8 Urs. Maj.)
Hence means are taken of the two measures for the same stars.

"H.S.L." Oct. 31, 1914

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Monday June 15, 1914

Scale 4 bo pied Series 65

m b 3088 No 134 V R bases Venat alt corr +23

		P.C.		Curve	Magn.	P.b. Curve	Magn.
Mean							
Too far from b.	a	.	6.5	.	.	0.72	7.22
8.00	b	3.6	7.2 -- 6.9	7.05	21	0.66	7.71
8.17	c	Near edge	6.9 - 7.0	6951	0	0.67 0.48	7.62
8.60	d	" " "	7.3	.	.	0.62	7.92
7.90	e	4.4	8.3	.	.	0.40	8.70
	f	4.2		.	.		
	g	4.8		.	.		
7.30	h	5.84		3.98	9.38		
7.42	k	5.3		3.96	9.26		
	l	5.4		3.98	9.38		
	m	5.8		4.05	9.85		
	n	5.8		4.05	9.85		
	o	6.3		4.07	10.37		
	p	6.5		4.08	10.58		
	q	7.3		4.03	11.33		
	r	7.4		4.02	11.72		
	s	7.4		4.02	11.72		
	t	7.5		4.02	11.62		
	u	8.4	8.3	8350	1	4.06	12.41
	v	8.7	8.8	8750	0	4.10	12.85
	x	9.2	9.2	9200	0	4.23	13.43
	y	9.4	9.5	9450	1	4.34	13.79
	z	9.7	9.7	9700	0	4.48	14.18
	Var	5.3				3.96	9.26

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Monday June 15, 1914

Scale 11. Series 65

	Mb 3090	Pole		
		P.C.	P.C.	
a5	~~5.1~~	5.8	5.8	5.80 00
b6		6.4	6.4	6.40 00
a8		7.6	7.6	7.60 00
d9		Del.	Del.	
10	5.1	8.6	8.7	8.65 01
11	5.4	9.4		
12	5.5	9.6		
13	5.9	9.8		
14	6.4			
15	6.8			
16	7.3			
17	7.4			
18	7.6			
19	8.3	8.3	8.30 00	
20	8.6	8.5	8.55 01	
23	8.8	8.9	8.85 01	
25	9.6	9.4	9.50 11	
26	9.6	9.7	9.65 01	
27	~~8~~			
28				
29				
30				

See p. 160.

5.00
3.65

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1914phae.proj.10600

Monday June 15, 1914.

Scale U.

Series 65 Coheil

5:05 Mc 3089 82 K. measured out of order in use at time. Att. +17 because plate was

				Curve	Magn.					Curve	Magn.
1	3.2			.	.	6.4	6.5	6.45	0 1	0.72	7.17
2	5.2			3.91	9.11	9.4	9.5	9.45	0 1	0.26	9.71
3	4.7			.	. .	9.3	9.2	9.25	1 0	0.27	9.52
4	5.6			H.01	9.61	9.7	9.7	9.70	0 0	0.26	9.96
5	5.9			H.06	9.96	10.0	10.0?	10.00?	0 0	0.27	10.27
6	6.6			H.07	10.67						
7	7.4			H.03	11.43						
8	7.8			H.02	11.82						
9	8.3			H.04	12.34						
10	8.5	8.4	8.45 1 0	H.05	12.50						
11	8.6	8.6	8.60 0 0	H.07	12.67						
12	9.4	9.4	9.40 0 0	H.32	13.72						
13	9.4	9.6	9.50 ⊥ 1	H.38	13.88						
14	9.6	9.7	9.65 0 1	H.46	14.11						
15	⊥	⊥	⊥		⊥						

5:11

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1914phae.proj.10600

Friday June 19, 1914.

Scale R. 1:35 — H Plates (Series 3 — H 859 — Pole

	sc.1	sc.2				Mean.		Diff.
10	3.3	3.6		3.6	3.8	3.70	1 1	5.32
too much elong. 11	.	.		.	.	.		
" " " 12	.	.		.	.	.		
13	4.8	5.1		4.95	5.1 5.0	5.05	1 0	5.25
14	5.5	5.8		5.65	5.8 5.5	5.65	2 1	5.00
15	5.6	5.9		5.75	5.9 6.2	6.05	1 2	5.03
16	5.7	6.0		5.85	6.0 5.9	5.95	0 1	5.45
17	5.8	6.1		5.95	6.1 6.4	6.25	1 2	5.38
18	6.7	7.0		6.85	7.0 7.4	7.20	2 2	4.86
19	7.7	8.0		7.85	8.0 8.00	8.00	00 00	4.42
20	8.4	8.7	8.6		8.65 8.35	8.50	15 15	4.23
23		9.7	9.7		9.70 9.50	9.60	10 10	3.74
25		10.6	10.6		10.60 10.45	10.58	02 03	3.29
						~~10.32~~	~~28 27~~	~~3.55~~
26		11.4	11.5		11.45 11.60	11.52	07 08	2.81
not comp. with scale 27		12.1	12.2?		12.15? 11.65	11.90?	25 25	2.79
28		12.2	12.4		12.30 12.25	12.28	02 03	2.83
29		12.8 poor	12.8?		12.80? 12.95	12.88?	08 07	2.78
30		13.7	13.6		13.65 13.35	13.50	15 15	2.54
31		13.5	13.4		13.45 13.80	13.62	17 18	2.60
32		F	F		F	F		F

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1914phae.proj.10600

Friday June 19, 1914.

Scale R. 24 Plates. Series 3.

Alt. corr. +.19, was not applied when obsy was made.

	D+860 pc.1	pc.2	M3		Curve	Magn.
α	3.4	3.7	3.7		5.32	9.02
β	5.6	5.9	5.9		5.16	11.06
γ	5.1	6.0	6.0		5.14	11.14
δ	7.2	7.6	7.5		4.72	12.22
ε	8.9	9.2 9.3	9.25	0 1	3.91	13.16
ζ	8.4	8.7 8.4	8.55	1 2	4.26	12.81
η		10.6	10.6	2	3.27	13.87
a		10.4	10.4	2	3.37	13.77
b (close to defect in glass)		10.5 10.6	10.55	1 0	3.29	13.84
c		11.2 10.9	11.05	2 1	3.10	14.15
d		11.6 11.6	11.60	0 0	2.93	14.53
e		11.7 11.4	11.55	1 2	2.95	14.50
f		12.6 12.4	12.5 12.50	1 0	2.74	15.24
g		12.6 12.4	12.6 12.53	1 1	2.74	15.27
h		12.7 12.6	12.65	1 0	2.72	15.37
k		12.6 12.7	12.65	0 1	2.72	15.37
l		12.1? 12.6	12.65	1 0	2.72	15.37
m		13.3 13.1	13.20	1 1	2.64	15.84
n		13.4 13.4	13.40	0 0	2.61	16.01
o		13.5 13.6	13.55	1 0	2.60	16.15
p		13.9 13.9	13.90	0 0	2.57	16.47

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Friday June 19, 1914.

Scale X. R

H Plates. Series 3

H 861 Pole.

		pc 1	pc 2	O.C.
	10	3.5	3.8	3.8
too faint	11	.	.	.
too faint.	12	.	.	.
faint	13	4.7	5.0	5.0
	14	5.2	5.5	5.5
	15	5.9	6.2	6.2
	16	5.6	5.9	5.9
	17	6.1	6.4	6.4
	18	7.1	7.4	7.4
	19	7.6	7.9 8.1	8.00
	20	8.1	8.4 8.3	8.35
	23		9.4 9.6	9.50
	25		* 9.6 10.5	10.55 ~~10.05~~
	26		11.6 11.6	11.60
	27		11.7 11.6	11.65
Scratched.	28		12.3 12.2	12.25
	29		12.8 13.1	12.95
	30		13.3 13.4	13.35
	31		13.8 13.8	13.80

* Looked up measure. Should be 10.6. Evidently error of a unit. Adopt 10.6 R.S.L.

Stars :- 16, 17, 18, 25 are hazy on one side of image ∴ difficult to compare with scale.

2:15
~~2:20~~

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1914phae.proj.10600

Friday June 19, 1914.

Scale U
2:50

Series 243

MC 5358 Pole.

			MC 5363 p. 180	Mean	Diff.			Oc.			MC 5363 p. 180	Mean	Diff.	
5								5.4	5.7	5.55 2 1	5.40	5.48	07 08	1.01
6								5.8	5.8	5.80 0 0	6.05	5.92	12 13	1.19
8								7.3	7.3	7.30 0 0	7.20	7.25	05 05	0.98
9								7.6	7.6	7.60 0 0	7.70	7.65	05 05	1.18
10	4.5			3.8	4.15	3 4	4.87	7.7	7.7	7.70 0 0	7.65	7.68	02 03	1.34
11	4.7			4.5	4.60	1 1	4.95	8.4			8.4	8.40	0 0	1.15
12	4.8			4.8	4.80	0 0	5.06	8.6			8.7	8.65	0 1	1.21
13	5.4			5.4	5.40	0 0	4.90	9.3			9.1	9.20	1 1	1.10
14	5.6			5.7	5.65	0 1	5.00	9.4			9.4	9.40	0 0	1.25
15	6.3			5.9	6.10	2 2	4.98	9.5			9.4	9.45	1 0	1.63
16	6.5			6.4	6.45	1 1	4.95	9.7			9.9	9.80	1 1	1.60
17	6.6			6.6	6.60	0 0	5.03	F			N.S.	N		
18	7.3			7.3	7.30	0 0	4.76							
19	7.4			7.4	7.40	0 0	5.02							
20	7.6			7.7	7.65	0 1	5.08							
23	8.2			8.35	8.28	0 0	5.06							
25	8.6	8.6	8.60 0 0	8.65	8.62	0 2	0 3	5.25						
26	9.1	8.8	8.95 1 2	9.25	9.10	1 5	1 5	5.23						
27	9.2	9.4	9.30 1 1	9.35	9.32	0 2	0 3	5.37						
28	9.2	9.4	9.30 1 1	9.60	9.45	1 5	1 5	5.66						
29	9.0	9.9	9.95 0 1	9.60	9.95			5.71						
30														

2.56
W

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1914phae.proj.10600

Friday, June 19, 1914.

Scale U.

~~Series~~

Series 243. Card

Mc 5959 8 20 0.0 Att. Cor. +01

				Curve	Magn.	D.C.			Curve	Magn.
1	3.6			.	.	7.1	7.1	7.10 00	1.10	8.20
2	3.9			4.71	8.81	8.3	8.3	8.80 00	1.19	9.49
3	5.4			4.98	~~9.88~~ 10.38	9.6	9.5	9.55 01	1.38	10.93
4	6.4			4.98	~~10.88~~ 11.38	h.s.	h.s.			
5	7.1			4.99	~~11.59~~ 12.09					ch W
6	7.4			5.00	12.40					
7	7.6			5.03	12.63					
8	8.4			5.16	13.56					
9	8.3			5.15	13.45					
10	8.6			5.21	13.81					
11	8.7	8.70 00	8.7	5.24	13.94					
12	8.8	8.80 00	8.8	5.27	14.07					
13	9.3	9.30 00	9.3	5.43	14.73					
14	9.6	9.46 21	9.3	5.47	14.92					
15	9.6	9.60 00	9.6	5.54	15.14					
					ch W					

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Friday June 19, 1914

Scale W Series 243 Card.

No. 5360 7h 15m 757°.5 Mt. Cas. +15°

				Curve	Magn.		Curve	Magn.
						6.85 1.0 P.b. 6.9 6.8	1.10	7.95
1	3.6					8.0 0.0		
2	4.5 -- 4.2	4.85 1.2		4.94	9.29	8.3 8.3	1.19	9.49
3	4.6 -- 4.6	4.60 .0		4.95	9.55	8.60 0.0	1.21	9.81
4	4.3			4.98	10.28	9.45 1.0	1.36	10.81
5	4.6			4.98	10.58	9.45 0.1 9.4 9.5	1.36	10.81
6	6.6			4.97	11.57			
7	7.4			5.00	12.40			ch W
8	7.6			5.03	12.63			
9	8.2			5.13	13.33			
10	8.5	8.5	8.50 0.0	5.17	13.67			
11	8.7	8.6	8.65 1.0	5.22	13.87			
12	9.4	9.4	9.40 0.0	5.46	14.86			
13	9.4	9.4	9.40 0.0	6.46	14.86			
14	9.6	9.5	9.55 0.1	5.51	15.06			
15	7							

ch W

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1914phae.proj.10600

Friday June 19, 1914

Scale U. Series 243 Card

Nla 5361 9h 45m +52°.5 Alt. Corr. +17

			Curve	Magn.			Curve	Magn.
					7.35 0.1		1.12	
1	3.7				7.4 7.3		~~5.00~~	8.47
					7.50 0.0		1.13	
2	3.9		4.91	8.81	7.5 7.5		~~5.03~~	8.63
					8.85 0.1			
3	4.8		4.96	9.76	8.8 8.9		1.24	10.09
					9.65 1.0			
4	6.3		4.98	11.28	9.7 9.6		1.41	11.06
5	6.5		4.98	11.48			↓	↓
6	6.8		4.98	11.78				ch W
7	9.3		5.00	12.30				
8	9.7		5.04	12.74				
9	8.4		5.16	13.56				
10	8.9		5.24	13.94				
11	8.9	8.8	8.85 1.0	5.29	14.14			
12	8.8	9.3	~~9.05~~ 2.3	5.34	14.39			
13	9.5	9.6	9.55 1.0	5.51	15.06			
14	9.6	9.6	9.60 0.0	5.54	15.14			
15	9.7	9.6	9.65 1.0	5.57	15.22			
					ch W			

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1914phae.proj.10600

Friday June 19, 1914

Scale U. Series 243 Card.

Mb 5362. 9h 20m +20°.0 Att. Cor. +17

				Curve	Magn.				Curve	Magn.
1	3.2			.	.	5.8	5.8	5.80 00	1.09	6.89
2	3.8			.	.	7.5	7.5	7.50 00	1.13	8.63
3	4.4			4.94	9.34	7.8	7.9	7.85 01	1.15	9.00
4	5.6			4.98	10.58	9.6	9.6	9.60 00	1.39	10.99
5	6.4			4.98	11.38	N.S.	N.S.	.		
6	7.3			5.00	12.30					ch W
7	7.4			5.00	12.40					
8	8.1			5.11	13.21					
9	8.4			5.16	13.56					
10	8.6			5.21	13.81					
11	8.8	8.8	8.80 00	5.27	14.07					
12	9.4	9.4	9.40 00	5.46	14.86					
13	9.4	9.6	9.50 1	5.50	15.00					
14	9.6	9.6	9.60 00	5.54	15.14					
15	9.6	9.6	9.60 00	5.54	15.14					
					ch W					

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1914phae.proj.10600

Friday June 19, 1914

Scale 11. Series 243

	Mdo 5363	Pole		Pb.		
5				5.14	5.14	5.40 00
6				6.2	5.9	6.052 1
8				7.1	7.3	7.20 1 1
9				7.7	7.7	7.70 00
10	3.8			7.5	7.6	7.65 1 0
11	4.5			8.14		
12	4.8			8.9		
13	5.14			9.1		
14	5.5			9.14		
15	5.9			9.14		
16	6.14			9.9		
17	6.6			n.s.		
18	7.3					
19	7.14					
20	7.7					
23	8.3	8.14	8.35 1 0			
25	8.6	8.7	865 0 1			
26	9.14	9.1	9.25 2 1			
27	9.14	9.3	9.35 0 1			
28	9.6	9.6	9.60 00			
29	9.14	9.14	F			

9.81.

9.30

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1914phae.proj.10600

Saturday June 20, 1914

Scale R.

10:50 MC 5363 Orle-

Series 243 (2nd half.)

				MC5369 p.185	Mean	Diff.					MC5369 p185	Mean.	Diff.
5							5.6	5.5	5.55	0 1	5.45	5.50	05 05 0.99
6							6.3	6.3	6.30	0 0	5.90	6.10	20 20 1.01
8							7.3	7.3	7.30	0 0	7.20	7.25	05 05 0.98
9							7.1	7.1	7.70	0 0	7.70	7.70	00 00 1.13
10	3.9			4.4	4.15	3 2 5 4.87	7.1	7.1	7.70	0 0	7.70	7.70	00 00 1.32
11	4.5			4.7	4.60	1 1 4.95	8.4				8.5	8.45	0 1 1.10
12	4.7			4.8	4.75	1 0 5.11	8.1				8.7	8.70	0 0 1.16
13	5.5			5.3	5.40	1 1 4.90	8.8	9.1	8.95	2 1	9.1	9.02	07 08 1.28
14	5.6			5.6	5.60	0 0 5.05	9.4				9.3	9.35	0 1 1.30
15	5.9			6.1	6.00	1 1 5.08	9.6				9.7	9.65	0 1 1.43
16	6.4			6.4	6.40	0 0 5.00	10.0				9.7	9.85	15 15 1.55
17	6.7			6.6	6.65	1 0 4.98	n.s.				n.s.	n.s.	n.s.
18	7.2			7.1	7.15	0 1 4.91							
19	7.5			7.4	7.45	1 0 4.97							
20	7.7			7.7	7.70	0 0 5.03							
23	8.4	8.4	8.40	0 0	8.45	8.42	0 2 0 3 4.92						
25	8.7	8.7	8.70	0 0	8.70	8.70	0 0 5.17						
26	8.8	8.9	8.85	0 1	8.85	8.85	0 0 5.48						
27	9.3	9.2	9.25	1 0	9.40	9.32	0 7 0 8 5.37						
28	9.6	9.6	9.60	0 0	9.55	9.58	0 2 0 3 5.53						
w.s. 29	~~9.~~	~~3.~~	~~1~~	~~ff~~	9.85	9.85	3 4 5.81						
30													

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1914phae.proj.10600

Saturday June 20, 1914

Scale 11 Series 243. Card.

MC 5365 W Ursae Maj. 9 30 +55.0 Att. Corr +20

				Curve	Magn.	P.C.			Curve	Magn.
	a	3.6		.	.	6.4	6.3	6.35 0.1	1.00	7.35
very near edge.	a'	4.4		4.94	9.34	8.6?			1.22?	9.82?
	b	4.1		4.88	8.98	1.5	1.6	7.55 1.0	1.11	8.66
	c	4.1		4.97	9.67	8.1	8.6	8.65 1.0	1.23	9.88
	d	4.6		4.96	9.56	8.5	8.6	8.55 1.0	1.22	9.77
	e	4.4		4.94	9.34	8.5	8.4	8.45 1.0	1.20	9.65
	f	4.1		4.97	9.67	8.6			1.22	9.82
	g	5.3 ~~5.1~~		5.01	10.31	9.4 ~~9.5~~			1.35	10.75
	h	5.1		5.04	10.74	9.5			1.38	10.88
	k	6.2		5.04	11.24					
	l	6.6		5.03	11.63					
	m	1.4		5.01	12.41					
	n	1.6		5.01	12.61					
	o	8.4	8.4	8.40 0.0	5.07	13.47				
	p	8.9	8.8	8.85 1.0	5.21	14.06				
	q	9.1	9.1	9.10 0.0	5.31	14.41				
	r	9.6	9.5	9.55 0.1	5.58	15.13				
	s	9.7	9.6	9.65 1.0	5.63	15.28				
	Var.	4.0								
Sel. Seg.	1	3.3		.	.	6.8	6.7	6.75 0.1	1.04	7.79
Ref. Seg.	2	4.4		4.94	9.38[4]	4.7	4.7	7.70 0.0	1.13	8.83
	3	4.6		4.96	9.56	8.5	8.6	8.55 1.0	1.21	9.76
	4	5.6		5.03	10.63	9.3	9.4	9.35 1.0	1.34	10.69
	5	6.3		5.04	11.34	9.8	9.7	9.75 0.1	1.46	11.21
	6	6.9		5.03	11.93					ch W

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1914phae.proj.10600

Saturday June 20, 1914.

Scale K. Series 243. Card

Mc 5365 cont.

1	7.1				5.01	12.71
8	8.4				5.07	13.47
9	8.1				5.14	13.84
10	8.8	8.8	8.80	00	5.17	13.97
11	9.1	9.1	9.10	00	5.31	14.41
12	9.3	9.4	9.35	10	5.44	14.79
13	9.7	9.7	9.70	00	5.67	15.37
14	9.7	9.7	9.70	00	5.67	15.37
15	∓.					

ch W

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1914phae.proj.10600

Saturday June 20, 1914.

Scale K-

Series 243.

Card

Mc 5367

10 20 0.0 Aft. Exp. +02

					Curve	Magn.					Curve	Magn.
1	3.5						6.7	6.7	6.70	00	1.03	7.73
2	4.6				4.96	9.56	8.6	8.6	8.60	00	1.23	9.83
3	4.1				4.97	9.67	9.1	8.9	9.00	12	1.27	10.27
4	6.3				5.04	11.33	9.9	9.8	9.85	16	1.49	11.34
5	6.4				5.04	11.43	m.s.					
6	1.3				5.01	12.31						ch W
7	1.3				5.01	12.31						
8	7.1				5.01	12.71						
9	7.9				5.02	12.92						
10	8.2				5.04	13.24						
11	8.6	8.6	8.60	00	5.11	13.71						
12	8.8	8.8	8.80	00	5.17	13.97						
13	9.21	9.1	9.15	01	5.44	14.59						
14	9.5	9.6	9.55	10	5.58	15.13						
15	9.7	9.6	9.65	10	5.63	15.28						
						ch W						

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1914phae.proj.10600

Saturday June 20, 1914.

Scale 2. Series 243.

mc 5369 Pole.

				P.E.
5				5.4 5.5 5.45 0 1
6				5.9 5.9 5.90 0 0
8				7.2 7.2 7.20 0 0
9				7.1 7.1 7.70 0 0
10	4.4			7.1 7.1 7.70 0 0
11	4.1			8.5
12	4.8			8.1
13	5.3			9.1
14	5.6			9.3
15	6.1			9.7
16	6.4			9.7
17	6.6			m.s.
18	~~6.9~~ 7.2			
19	7.6	7.4		
20	7.7			
23	8.5	8.4	8.45 1 0	
25	8.1	8.1	8.70 0 0	
26	8.9	8.8	8.85 1 0	
27	9.4	9.4	9.40 0 0	
28	9.6	9.5	9.55 0 1	
29	9.8	9.9	9.85 0 1	

11:55

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1914phae.proj.10600

Wednesday June 24. 1914.

Scale m - 9:55 — N. S. Regions — I 27947 — 1° plate — D12 — 23 - 15° — Copied.

All Cor -0.17

Preceding Images only to be meas.

Star. Seq.	sc.1	sc.2	sc.3	Curve	Magn.	sc.2	O.C.	sc.2		Curve	Magn.
1	X33	35	35	.	.	8.8	8.9	8.85	0 1	-1.16	7.69
2	25	27	27	.	.	def.	.	.		.	.
3	35	37	B. 37	.	.	9.1	9.1	9.10	0 0	-1.06	8.04
4	36	38	38	.	.	9.3	9.4	9.35	1 0	-0.93	8.42
5	28	30	30	.	.	9.4	9.5	9.45	0 1	-0.86	8.59
6	39	41	40	H.05	10	9.4	9.5	9.45	0 1	-0.86	8.59
7	42	44	43	H.35	01	9.9	9.8	9.85	1 0	-0.59	9.26
8	41	43	46	H.45	1 2	9.6	9.7	9.65	0 1	-0.74	8.91
9	45	47	51	H.90	2 2	t.p.	t.p.	?			9.
10	45	47	51	H.90	2 2	10.0?		10.0 a.		-044	9.56 ?
11	46	48	51	H.95	2 1						
12	47	49	52	5.05	1 2						
13	47	49	52	5.05	1 2						
14	55	57	57	5.70	0 0						
15	53	55	56	5.55	1 0						
16	55	57	58	5.75	1 0						
16a	61	63	64	6.35	1 0						
17	66	68	71	6.95	2 1						
18	66	68	71	6.95	2 1						
19	.	73	7.35	1 0	7.4						
20		74	7.45	0 1	7.5						
partly superposed 21		.	.		.						
21		78	7.80	0 0	7.8						
23		82	8.15	0 1	8.1						
24		83	8.30	0 0	8.3						
25		84	8.40	0 0	8.4						
26		85	8.50	0 0	8.5						

N.S.

P.C. are from. do not compare well with Reese.

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1914phae.proj.10600

Wednesday June 24, 1914.

Scale M. H.S. Regions

I 21947 cont.

		sc 2	sc 2		Curve	Magn.
	27	8.4	8.5	8.45 o1	H.09	12.54
poor	27a	8.6	8.6	8.60 oo	H.10	12.70
	28	9.1	8.8	8.95 12	H.24	13.19
poor	29	8.6?	8.7?	8.65 01	H.10	12.75?
"	30	9.6?	9.5?	9.55 01	H.22	13.77?
scratched.	31					

Just by E.H.

		sc 1	sc 2			
Polar Seq.	5					
	6					
	8					
	9				Diff.	
	10	4.2 4.4 5.0	4.6		H.50 11	H.52
	11	4.8	5.1		5.05 01	H.50
	12	5.1 5.3	5.5		5.40 11	H.46
	13	5.7 5.9	5.8		5.85 10	H.45
	14	6.0 6.2	6.4		6.30 11	H.35
	15	6.5 6.7	6.6		6.65 10	H.43
	16		7.4	7.4	7.40 00	H.00
	17		7.6	7.6	7.60 00	H.03
	18		8.1	7.8	7.95 12	H.11
	19		8.3	8.4	8.35 10	H.07
	20		8.7	8.6	8.65 10	H.08
	23		9.2	9.2	9.20 00	H.14
	25		9.6	9.7	9.65 01	H.22
	26		F.		F	
	27					

B.C.

sc 2			Diff.
7.6	7.7	7.65 01	-1.16
8.4	8.4	8.40 00	-1.29
9.3? too close to brt star.		9.3?	-1.07
t.p.			
n.s.			
9.9?	9.9?	9.90? 00	-0.35

10:40.

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1914phae.proj.10600

Wednesday June 24, 1914-

Scale m. 10:55

N. S. Regions I 34366 D12

~~D~~ 1' plate. 23 — 15°. Copied

P.C. Alt. Cor. -0.18

	sc.1	sc.2	sc.2	Curve	Magn.	sc.2	sc.2		Curve	Magn.
1	3.5	3.7	3.7	.	.	8.6	8.6	8.60 00	-0.57	8.03
2	2.3	2.5	2.5	.	.	8.3	8.3	8.30 00	-0.73	7.57
3	3.6	3.8	B. 3.8 a B	.	.	8.7	8.7	8.70 00	-0.53	8.17
4	3.6	3.8	4.0	3.90 11	.	8.7	8.9	8.80 11	-0.47	8.33
too far from centre. 5	3.2	.	.	.	.	8.9	8.8	8.85 10	-0.46	8.39
6	3.8	4.0	4.2	4.10 11	.	t.p.	t.p.	.	.	.
7	3.8	4.0	4.3	4.15 21	.	9.2	9.4	9.30 11	-0.20	9.10
8	4.4	4.6	4.7	4.65 01	H.45	9.3	9.3	9.30 00	~~+~~0.20	9.10
9	4.4	4.6	4.9	4.75 21	H.47	9.3	9.2	9.25 10	-0.23	9.02
10	4.6	4.8	5.1	4.95 21	4.48	9.5	9.6	9.55 10	-0.04	9.51
11	4.7	4.9	5.2	5.05 12	H.49	~~9.6~~ 9.8	9.8	9.80 00	0.13	9.93
12	4.7	4.9	5.2	5.05 12	H.49	9.7	9.9	9.80 11	0.13	9.93
13	4.8	5.0	5.1	5.05 01	H.49	10.0?	10.0?	10.00 00	0.27	10.27 ?
14	5.4	5.6	5.6	5.60 00	H.52					10.12
15	5.3	5.5	5.5	5.50 00	H.52					10.02
16	5.6	5.8	~~6.0~~ 5.7	5.75 01	H.53					10.28
16a	~~6.2~~ 5.9	6.1	6.2	6.15 10	H.54					10.69
17	6.4	6.6	6.5	6.55 01	H.54					11.09
18	6.4	6.6	6.5	6.55 01	H.54					11.09
19	6.5	6.7	6.5	6.60 11	H.54					11.14
20	6.5	6.7	6.6	6.65 10	H.54					11.19
21	6.6	6.8	6.8	6.80 00	H.54					11.34
22	7.4	00	7.4	7.4	H.54					11.94
23	7.7	0 0	7.7	7.7	H.54					12.24
24	7.8	0 0	7.8	7.8	H.54					12.34
25	7.7	5 10	7.7	7.9	H.54					12.29

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1914phae.proj.10600

Wednesday June 24, 1914.

Scale m. N. S. Regions

I 34366 cont.

	sc.1	sc.2	ic.2		Curve	Magn.
scratched: 26						
27	8.3	8.3	8.30	00	4.54	12.84
27a	8.4	8.4	8.40	00	4.55	12.95
28	9.1	9.4	9.25	12	4.60	13.85
29	8.1	8.6	8.65	10	4.57	13.22
30	9.1	9.1	9.10	00	4.59	13.69
31	9.2	9.1	9.15	01	4.59	13.74
poor. 32	9.4	9.3	9.35	01	4.60	13.95
33	9.6	9.6	9.60	00	4.64	14.24
34	9.8	9.7	9.75	01	4.65	14.40
35.	~~1~~	~~1~~	~~P~~			~~P~~

Ch. by 2 st.

Polar Sequence on following page.

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1914phae.proj.10600

Wednesday June 24, 1914.

Scale 4 m. Int. D Regions 5' plate.

I 34366 cont D 12 23-15°.

P.C.

	Polar Seq	sc.1	sc.2	sc.2		sc.2	Diff.		
5						7.4	7.5	7.450.1 −0.96	
6						8.2?	8.1	8.150.1 −1.04	elongated, does not comp. with scale.
8						8.6	8.6	8.600.0 −0.37	
9					Diff.	9.1	9.3	9.201.1 −0.37	
10		4.3 4.5	4.7		4.60 1.1 4.42	9.3	9.3?	9.300.0 −0.28 def?	
11		4.8 5.0	5.3		5.15 2.1 4.40	9.5	9.4	9.451.0 +0.10	
12		4.8 5.0	5.3		5.15 2.1 4.71	9.8	9.7	9.751.1 +0.11	
13		5.4 5.6	5.6		5.60 0.0 4.70	m.s.	m.s.		
14		5.8 6.0	6.3		6.15 2.1 4.50				
15		6.3 6.5	6.6		6.55 1.0 4.53				
16		6.5 6.7	6.9		6.80 1.1 4.60				
17		6.6 6.8 6.8 7.0	7.4	7.2	7.10 3.1 3.1 4.53				
18			7.5	7.6	7.55 1.0 4.51				
19			7.8	7.8	7.80 0.0 4.62				
20			8.3	8.3	8.30 0.0 4.43				
23			8.6	8.6	8.60 0.0 4.74				
25			9.3	9.3	9.30 0.0 4.57				
26			9.6	9.7	9.65 0.1 4.68				
27			7.						

11:45

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1914phae.proj.10600

Wednesday July 8, 1914.

~~Series 204.~~

Scale II

Series 203

10:15 MC 4874 Pole.

Series with Diffraction Grating.

P.C. on next page.

						Images a'	Images a''		MC 4878 p. 195	Mean	Diff.
5				Mean.	Diff.	5.7 sc.2	5.7	5.70 00	5.7	5.70 00	0.79
6						6.4	6.4	6.40 00	6.50	6.45 05 05	0.66
8				MC 4878		7.2	7.5	7.35 2 1	7.35	7.35 00 00	0.88
9						7.1?	7.1	7.70? 00	7.75	7.72 02 03	1.11
10	4.8			4.7	4.75 01	8.4	8.4	8.40 00	8.30	8.35 05 05	0.67
11	5.4			5.4	5.40 00	8.6 8.7	8.7	8.67 1 00	8.70	8.68 01 02	0.87
12	5.6			5.6	5.60 00	9.3 8.9	9.3	9.17 1 1	8.80	8.98 19 18	0.88
13	5.9			5.7	5.80 1 1	9.5 9.4	9.3	9.40 1 0 1	9.40	9.40 00 00	0.90
14	6.4			6.4	6.40 00	9.5 9.6	9.7	9.60 1 0 1	9.70	9.65 05 05	1.00
15	6.7			6.6	6.65 10	9.8	9.8	9.80 0.0	9.85	9.82 02 03	1.26
16	7.2			6.8	7.00 2 2	9.9		9.9 a	10.0?	9.95 05 05	1.46
17	7.3			7.4	7.35 1 0	10.2? ~~m.c.~~		10.2? a		10.2? a	1.43?
18	7.7			7.7	7.70 00	~~10.5~~					
19	7.8			7.8	7.80 00						
20	8.4			8.4	8.40 00						
23	8.7	8.7	8.70 00	8.70	8.70 00 00						4.64
25	9.2	9.4	9.30 1 1	9.35	9.32 02 03						4.65
26	9.4	9.6	9.50 1 1	9.60	9.58 05 05						4.78
27	9.6	9.7	9.65 0 1	9.70	9.68 03 02						5.01
28	9.8	9.8	9.80 00	9.85	9.82 02 03						5.29
29	~~7.~~										

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1914phae.proj.10600

Wednesday June 24, 1914.

Scale H. M. I. S. Regions 5' plate.

I 34366 cont. D 12 23-15°.

P.C.

Polar Seq	sc.1	sc.2	sc.2		sc.2	Diff.		
5					1.4	7.5	7.45 0.1	−0.96
6					8.2?	8.1?	8.15 0.1	−1.04 elongated, does not comp. with scale.
8					8.6	8.6	8.60 0.0	−0.37
9				Diff.	9.1	9.3	9.20 0.1	−0.37
10	4.3 4.5	4.7		4.60 0.1	9.3	9.3?	9.30 0.0	−0.28 def?
11	4.8 5.0	5.3		5.15 0.1	9.5	9.4	9.45 0.0	+0.10
12	4.8 5.0	5.3		5.15 0.1	9.8	9.7	9.75 0.1	+0.11
13	5.4 5.6	5.6		5.60 0.0	m.s.	m.s.		
14	5.8 6.0	6.3		6.15 0.1				
15	6.3 6.5	6.6		6.55 0.0				
16	6.5 6.7	6.9		6.80 0.1				
17	6.6 6.8 6.8 7.0	7.4	7.2	7.10 3.1 3.1				
18		7.5	7.6	7.55 0.0				
19		7.8	7.8	7.80 0.0				
20		8.3	8.3	8.30 0.0				
23		8.6	8.6	8.60 0.0				
25		9.3	9.3	9.30 0.0				
26		9.6	9.7	9.65 0.1				
27								

11:45

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1914phae.proj.10600

Wednesday July 8, 1914.

~~Series 204.~~

Series 203

Scale II

10:15 MC 4874 Sole. Series with Diffraction Grating.

P.C. on next page.

					Mean.	Diff.	Images a_1	Images a_2			MC 4878 p. 195	Mean	Diff.
5							5.7	5.7	5.70 00		5.7	5.70 00	0.79
6							6.4	6.4	6.40 00		6.50	6.45 05 05	0.66
8							7.2	7.5	7.85 2 1		7.35	7.35 00 00	0.88
9							7.1?	7.1	7.70? 00		7.75	7.72 02 03	1.11
10	4.8			4.7	4.75 01	4.27	8.4	8.4	8.40 00		8.30	8.35 05 05	0.67
11	5.4			5.4	5.40 00	4.15	8.6	8.7	8.1	8.67 1 00	8.70	8.68 01 02	0.87
12	5.6			5.6	5.60 00	4.26	9.3	8.9	9.3	9.17 1 1	8.80	8.98 19 18	0.88
13	5.9			5.7	5.80 1 1	4.50	9.5	9.4	9.3	9.40 1 0 1	9.40	9.40 00 00	0.90
14	6.4			6.4	6.40 00	4.25	9.5	9.6	9.7	9.60 1 0 1	9.70	9.65 05 05	1.00
15	6.7			6.6	6.65 10	4.43	9.8		9.8	9.80 0.0	9.85	9.82 02 03	1.26
16	7.2			6.8	7.00 2 2	4.40	9.9			9.9 a	10.0?	9.95 05 05	1.46
17	7.3			7.4	7.35 1 0	4.28	~~10.2?~~			10.2? a		14.2? a	1.43?
18	7.7			7.7	7.70 00	4.36	~~m.s.~~						
19	7.8			7.8	7.80 00	4.62							
20	8.4			8.4	8.40 00	4.33							
23	8.7	8.7	8.70 00	8.70	8.70 00 00	4.64							
25	9.2	9.4	9.30 1 1	9.35	9.32 02 03	4.65							
26	9.4	9.6	9.50 1 1	9.60	9.55 05 05	4.78							
27	9.6	9.7	9.65 0 1	9.70	9.68 03 02	5.01							
28	9.8	9.8	9.80 00	9.85	9.82 02 03	5.29							
29	~~5.~~												

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1914phae.proj.10600

Wednesday July 8, 1914.

Scale.

Series 207 3

MC 4878 cont. Pole.

	G.C. sc. 2	MC 4878 p. 195	Mean	Diff.
5	5.6	5.7	5.65 01	0.84
6	6.5	6.5	6.50 00	0.61
8	7.7	7.6	7.65 10	0.58
9	8.4	8.4	8.40 00	0.43
10	8.4	8.5	8.45 01	0.57
11	8.6	8.9	8.75 ± 1	0.80
12	9.5 9.1 9.30 2 ±	9.4	9.35 05 05	0.61
13	9.4	9.6	9.50 ⊥ 1	0.80
14	9.7	9.8	9.75 ⊥ 0	0.90
15	9.9	9.9	9.90 00	1.18
16	10.0?	F	10.0? ± F	1.40
17	1.		F	
18				

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1914phae.proj.10000

Wednesday July 8, 1914.

Scale 2.

Series 20 3 Cards

MC 4876

9 0 – 5.0 Mt Cuba

				Curve	Magn.	Diff. Images. a²	res.²	Curve	Magn.	O.C. res.²	Curve	Magn.
1	B.			B.		5.7	5.65 10 5.6	0.76	6.41	5.6	0.77	6.37
2	4.0			H.11	8.11	7.4	7.35 01 7.3	0.78	8.13	7.6	0.59	8.19
3	4.4			H.16	8.56	7.6	7.65 1 7.7	0.79	8.44	7.8	0.58	8.38
4	5.4			H.26	9.66	8.7	8.70 00 8.7	0.85	9.55	9.4? 9.1 9.25? 21	0.71	9.96?
5	5.8			H.29	10.09	9.5	9.50 00 9.5	1.04	10.54	9.6	0.81	10.41
6	6.8			H.32	11.12	F.	F.		F	F		F
7	7.4			H.33	11.73	n.s.						
8	7.7			H.36	12.06	n.s.						
9	8.7			H.51	13.21							
10	8.7			H.51	13.21							
11	9.1	8.9	9.00 11	H.58	13.58							
12	9.21	9.4	9.30 11	H.69	13.99							
13	9.5	9.5	9.50 00	H.79	14.29							
14	9.7	9.7	9.70 00	H.98	14.68							
15	9.8	9.8	9.80 00	5.13	14.93							

Prin. Images do not compare well with scale. Elongated.

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1914phae.proj.10600

Wednesday July 8, 1914.

Scale 2

Series 204.3 Cons

Mc 4877 9 20 −5.0 Mt Eris. 00

			Curve	Magn.	Diffr. Images. a'	a²	Curve	Magn.	G.C. Δc₂	Curve	Magn.
1	3.1		.	.	5.8	5.8	5.8000	0.76	6.56	6.4	0.68	7.08
2	3.1		.	.	7.3	7.3	7.3000	0.78	8.08	7.5	0.59	8.09
3	3.9		4.09	7.99	7.1	7.1	7.7000	0.79	8.49	8.4	0.60	9.00
4	4.6		4.18	8.78	8.1	8.4	8.2512	0.81	9.06	9.6	0.82	10.42
5	5.8		4.29	10.09	9.3	9.6	9.4512	1.01	10.46	9.6	0.82	10.42
6	6.9		4.32	11.22	10.0?	9.8	9.90?11	1.27	11.17?	9.8?	0.99	10.79?
7	7.8	7.7	7.7501		4.36	12.11						
8	7.8				4.36	12.16						
9	8.6				4.49	13.09						
10	8.8				4.53	13.33						
11	9.4	9.2	9.3011		4.69	13.99						
12	9.4	9.4	9.4000		4.74	14.14						
13	9.5	9.5	9.5000		4.79	14.29						
14	9.5	9.5	9.5000		4.79	14.29						
15	9.6	9.6	9.6000		4.78	14.38						
1												

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1914phae.proj.10600

Wednesday July 8, 1914.

Scale 2. Series 20 A. 3

Mc 4878 Pole.

				Diffr. Images. a'	a''		P.C. a''
5				sc.2	5.1	5.1 . a	5.1
6				6.4	6.6	6.50 11	6.5
8				7.3	7.4	7.35 10	7.6
9				7.7	7.8	7.75 10	8.4
10	4.7			8.2	8.4	8.30 11	8.5
11	5.4			8.7	8.7	8.70 00	8.9
12	5.6			8.8	8.8	8.80 00	9.4
13	5.7			9.4	9.4	9.40 00	9.6
14	6.4			9.7	9.7	9.70 00	9.8
15	6.6			9.8	~~10.0~~ 9.3	9.85 01	9.9
16	6.8			10.0	10.0	10.0 2 00	1
17	7.4						
18	7.7						
19	7.8						
20	8.4						
23	8.7	8.7	8.70 00				
25	9.4	9.3	9.35 01				
26	9.6	9.6	9.60 00				
27	9.7	9.7	9.70 00				
28	9.8	9.9	9.85 01				
29							

11:15.

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1914phae.proj.10600

Friday July 10, 1914.

Measures of M5 on A 5' plate, using Argelander's method, by comparing stars in cluster with those in S.S. Region C 9.

10 : 10

A 8363. J

North up. (See also P. 199)

Oct, 1914 Magns.			July, 1914 Magn.	Mean Magn.			Magn.	Mean Magn.
11.44	15 3 a *	11.43 01 01	11.4 8 11.5 11.30 11.40 14	11.39 09 09	13.07	21 1 d 13.18 11.42	13.14	13.20 16 15
11.42	a 2 16		11.3		13.30	d 1 22	13.5 4 5	
12.10	17 3 21 β 12.10 00 00		12.17 12.02 12.19 12.2000	12.18 01 01	13.60	22 2 e 3. 06 14.34	13.875	13.4926 26
12.10	β 3 18		12.19 12.2		13.47	e 3 23	13.23 23 1 f 13.88 13.82 f 1 24	1363 1374 11 11 1395 13.84 03 01
12.20	17 3 γ 12.15 05 01		12.27 19	12.23 04 04	14.12	24 2 f g 14.02 10 10	14.215	1400 15 15
12.10	γ 3 18		12.2		13.92	g f 2 25	13.85	
12.56	19 1 8 12.48 08 01		12.7 1268	1255 13 13	14.17	26 1 h 14.23 06 06	14.22	1429 07 07
12.41	8 3 20		12.4 12.42		14.29	h 3 29	14.36	
13.97	23 2 e 13.84 13 12		13.7 1373	13.73 a F 13.74 01 01	14.79	27 2 l 14.86 07 06	14.86	1497 11 11
13.72	e 2 24		13.8 13.75		14.92	l 1 28	15.08	
14.02	24 1 ζ 13.87 15 15		14.1 14.05	1385 20 25	15.02	m = 28 }	15.06	1506 a F 1505 01 01
13.72	ζ 4 25		13.6 13.65		14.99 15.10	27 4 m m 3 29 }	14.9 1504 15.04 02 05 06	
11.34	15 2 b 11.33 02 09		11.4 11.38	11.39 01 01		29 m		
11.52	b 1 16		11.4 11.40		15.50	29 1 n	15.44	15.44 a
					15.54	n 3 30	15.52 02 02	
12.76	19 3 c 12.58 18 17		12.9 1288	1265 23 23	too crowded in region of O to be certain of star.			
12.41	c 3 20		12.4 12.42					

Images of bright stars not comparable with those on exposure at +15°.

* a = α.

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1914phae.proj.10600

Friday July 10, 1914.

Measures of M3 on a 5" plate, using Argelander's method.
a 8358 ✓ Regions M3 & C9 on plate.
North up.

Oct. 1914

8.67	b 2 α	8.71	8.87	8.78 09 09	14.12	24 2 b	14.07 05 05	14.15	14.05 10 10
8.75	α 3 7		8.69		14.02	b 1 25		13.95	
10.99	14 2 β	10.96 03 03	10.98	10.90 00 00	14.22	24 3 c	14.12 10 10	diff. t. conf. stars. 14.25	14.10 15 15
10.94	β 2 15		10.98		14.02	c 1 25		13.95	
	~~14 3 γ~~				14.22	25 2 d	14.10 22 23	14.25	13.92 F a 14.08 17 16
	~~γ 15~~				13.87	d 2 26		13.92	
11.24	15 1 γ	11.28 04 04	11.28	11.24 04 04					
11.32	γ 3 16		11.20		14.69	27 1 e	14.70 01 02	14.76	14.82 06 06
					14.72	e 3 28		14.88	
12.20	17 3 δ	12.25 05 05	12.27	12.33 06 06					
12.30	δ 1 18		12.39		14.89	27 3 ζ	14.90 01 02	14.96	15.02 06 06
					14.92	ζ 1 28		15.08	
13.01	20 3 ζ	12.97 01 01	13.02	12.98 04 04					
12.87	ζ 1 21		12.94		15.50	29 1 h	15.57 02 01 ?	15.44	15.44 a
					15.64	h 2 30.			
13.27	21 3 ε	13.28 01 02	13.34	13.40 06 05					
15.50	ε 1 22		13.45						
						Inv. of K precedes superposed?			
Comparison 14.12	24 2 η	14.02 10 10 ~~14.17 0~~	14.15	14.00 15 15					
very difficult. 13.92	η 2 25	13.72	13.85						
					15.60	29 2 l	15.62 02 02	15.54	15.54 a
					15.64	l 2 30			12 —
14.12	25 2 a	13.97 15 15	14.15	13.95 20 20				15.64 a	
13.82	a 3 25		13.75		15.70	29 3 m	15.72 02 02		m = 30. 15.84 a
					15.74	m 1 30			31 m.s.

Comparisons on this plate are difficult. Images on exposure at +15° are large + 2f... on 2nd exp. are sharp & nearly equal.

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1914phae.proj.10600

Friday, July 10, 1914.

Measures of M 3 on A 5' plates using Anglander's Method.

2:40 A 8327 J North up.

Plague. Oct. 1914

	~~5~~				13.97	2 3 2 h	13.90 07 08	13.73	13.73 a f
	~~4 3 α~~								~~1379 06 06~~
	~~α 2 5~~				13.82	b 1 2 4		13.85	
8.67	b 2 α	8.71 04 04	8.87	8.78 09 09					
8.75	α 3 7		8.69			c = 25.	14.12 a	14.05	14.05 a .
10.19	9 1 β	10.38 19 18	10.27	10.42 15 16	14.17	26 1 d	14.23 06 06	14.22	14.29 07 07
10.56	β 1 10		10.58		14.29	d 3 27		14.36	
10.92									
13 bilder Stamps	3 2 1 2 γ	10.76 16 17	10.92	10.75 17 17	14.69	27 1 e	14.76 07 06	14.76	14.87 11 11
10.59	γ 2 14		10.58		14.82	e 2 28		14.98	
11.92	16 3 8	11.81 11 11	11.80	11.78 02 01	15.12	28 1 f	15.16 04 04	15.28	15.28 a f ~~07 07~~
11.70	8 2 17		11.77		15.20	f 2 29		15.14	
13.17 ?	21 2 e	13.24 07 04	13.24	13.34 10 11	15.12	28 1 g	15.21 09 09	15.28	15.28 a f
13.30	e 1 22		13.45		15.30	g 1 29		15.24	
13.97	23 2 η	13.90 07 08	13.73	13.79 06 06	15.70	29 3 h	15.72 02 02	15.64	15.64 a .
13.82	η 1 24		13.85		15.74	h 1 30			
12.70	18 3 3	12.53 17 15	12.79	12.64 15 16		It is nearly sufficient			
12.36	3 1 19		12.48			not safe for measure.			
14.02	24 1 a	13.97 05 05	14.05	13.95 10 10	16.04	30 2 l	16.04 a .		
13.92	a 2 25		13.85			l 1 31			n = 31
					15.94	30 1 $\mathfrak{X}^m$	15.94		0 < 31
						$\mathfrak{X}^m$ 1 31			

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1914phae..proj..10600

Friday July 10, 1914.

Measures of m5 on a 5' plate using Argelander's Method
(See P. 196)

8:25 a 8363 South ref.

Oct. 1914

α = a 11.54	15 4 α 11.48 06 06	11.58	11.44 14 14	13.07	21 1 e 13.14 07 06	13.14	13.24	10	11
11.42	α 2 16	11.30		13.20	e 2 22	13.35			
12.20	17 3 β 12.20 00 00	12.27	12.28 01 01	13.97	23 2 f 13.90 07 03	13.73	13.79	3 a 06 06	
12.20	β 2 18	12.29		13.82	f 1 24	13.85			
12.00	17 1 γ 12.05 05 05	12.07	12.13 06 06	14.22	24 3 g 14.12 10 10	14.25	14.10	15	15
12.10	γ 3 18	12.19		14.02	g 1 25	13.95			
12.56	19 1 δ 12.48 08 07	12.68	12.55 13 13	14.27	26 2 h 14.43 16 16	14.32	14.49	17	17
12.41	δ 3 20	12.42		14.57	h = 27	14.66			
13.70	2 28 2 3 ε 13.68 02 01	13.85	13.64 21 21	14.79	27 2 l 14.86 07 06	14.86	14.97	11	11
13.67	ε 1 23 24	13.43		14.92	l 1 28	15.08	Comp. difficult too far from star l.		
13.70	22 3 3 13.68 02 01	13.85	13.64 21 21	15.12	28 1 m 15.16 04 04	15.28	15.28	a	f
13.87	3 1 23	13.43		15.20	m 2 29	15.14			
11.72	16 1 b 11.66 06 06	11.60	11.64 04 03		~~m 1 29~~				
11.60	b 3 17	11.67		15.50	29 1 m 15.57 01 07	15.44	15.44	a	
				15.64	m 2 30				
12.50	18 1 c 12.58 12 11	12.59	12.48 11 10						
12.26	c 2 19	12.38							
13.01	20 3 d 12.79 02 02	13.02	12.93 09 09						
12.77	d 2 21	12.84							

Too Crowded in region of 5 for safe measures.

4:10

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1914phae.proj.10600

Saturday July 11, 1914.

Measures of a m^3 on $C9$ $3'$ plate using Argelander's method. See also p. 197.

10— A 8358 South up.

			Magn.					Magn.	
Oct. 1914									
8.77	6 3 α 8.81	01 01	8.97	8.88 09 09	14.12	24 2 d 14.07	05 05	14.15	14.05 10 10
8.85	α 2 7		8.79		14.02	d 1 25		13.95	
9.93	8 4 β 9.96	03 03	9.94	10.00 06 07	14.27	26 2 e 14.28	01 01	14.32	14.34 02 02
9.99	β 1 9		10.07		14.29	e 3 27		14.36	
10.92	13 2 γ 10.70	22 21	10.92	10.70 22 22	14.89	27 3 f 14.86	03 04	14.96	14.97 01 01
10.49	γ 3 14		10.48		14.82	f 2 28		14.98	
12.10	17 1 8 12.05	05 05	12.07	12.13 06 06	15.12	28 29 15.14	01 01	15.38	15.38 a F
12.10	8 3 18		12.19		15.20	g 2 29		15.14	
12.56	19 1 ζ 12.67	56 a R	12.68	12.68 a R	15.32	28 3 h 15.26	06 06	15.48	15.48 a F
~~12.71~~	ζ 20		R		15.20	h 2 29		15.14	
13.07	21 1 ε 13.18	11 12	13.14	13.30 16 15		Is superposed? on star on star Seq.			
13.30	ε 1 22		13.45			29 3 k		15.64	15.64 a F.
13.87	23 1 ~~λ~~ a 13.80	01 01	13.63	1363 a F	15.70 15.64	k 2 30	67 03		
13.72	~~λ~~ a 2 F 24		13.75			~~31 m~~ S.			
						29 2 λm		15.54	1554 a,
13.97	23 2 η 13.90	07 07	13.73	13.73 a F	15.60 15.74	m 1 30	15.61	07 07	
13.82	η 1 24		13.85			31 m. S.			
14.12					15.94	30 1 n	15.94	a	
Comparison difficult	24 2 c 13.97	15 15	14.15	1395 20 20		31 m. S.			
13.82	c 3 25		13.75						

Comparison Difficult on acct of distance of comp. stars.

10:35

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1914phae..proj..10600

Saturday July 11, 1914.

Measures of M3 on a 5' plate cont.

a 8329 ✓

South up.

8.77	63 α	8.97	8.88 09 09	c = 25	14.12 a	14.05	1405 a.
8.85	α 27	8.79					
				14.22 25 1 d	14.04 18 17	14.15	13.92 b a
10.19	9 to 1 β	10.27	10.42 15 16	13.87 d 2 26		13.92	
10.56	β 110	10.58					
				14.17 26 1 e	14.33 16 16	14.22	14.39 17 17
11.02	13 3 γ	11.02	10.85 17 17	14.49 e 1 27		14.56	
10.69	γ 1 14	10.68					
				14.79 27 2 f	14.80 01 02	14.86	1492 06 06
12.10	14 28	12.17	12.18 1 1	14.82 f 2 38		14.98	
12.10	8 318	12.19					
				15.12 28 1 g	15.16 04 04	15.28	15.28 a b
12.66	19 23	12.78	12.70 08 08	15.20 g 2 29		15.14	
12.61	3 1 20	12.62					
				15.60 28 3 g	15.67 07 07		
				▽ 29 2 h		15.54	1554 a.
13.27	21 32	13.34	13.40 06 05	now star for h 2 29	h 1 30.		
13.30	9 1 22	13.45		15.14			
13.50	22 1 a	13.65	13.49 16 16	he is too nearly sup.			
13.57	a 2 23	13.33		I is too poor for estimate.			
13.70	2,23 b	13.85	13.64 21 21	15.94 30 1 m	15.94 a.		
13.67	b 1 23	13.43		m 1 31			
14.02	24 1 η	14.05	14.00 05 05	m = 31 ?			
14.02	η 1 25	13.95		0 K 31.			

Measures = difficult - on acct of distance of comp. stars. 12:10.

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1914phae.proj.10600

Monday July 13, 1914.

Scale P Scale measures of A 5' plates.

10:05 A 8327 m3 + eg (17° ± 15°)

Stan. Seq.	sc.1	sc.2		Diff.		Diff.		Diff.
No far from centre. 1								
" " " " 2								
3	B.			B		B		
" " " " 3a								
4	1.7	1.4		1.70	5.98	1.4	6.28	6.42
5	1.7	1.4		1.70	6.11	1.4	6.41	6.66
" " " " 6								
" " " " 6a								
7	2.5	2.2		2.50	6.49	2.2	6.79	6.85
8	2.7	2.4		2.70	6.84	2.4	7.14	7.13
8a	2.6	2.3		2.60	7.04	2.3	7.34	7.38
9	3.3	3.0		3.30	6.87	3.0	7.17	7.09
10	3.3	3.0		3.30	7.38	3.0	7.68	7.66
11	3.2	2.9		3.20	7.42	2.9	7.72	7.59
12	3.4	3.1		3.40	7.30	3.1	7.60	7.49
13	3.1	2.8		3.10	7.62	2.8	7.92	7.92
14	3.6	3.3		3.60	7.18	3.3	7.48	7.46
15	3.6	3.3		3.60	7.58	3.3	7.88	7.84
16	4.1	3.8		4.10	7.40	3.8	7.70	7.82
not comp. 17	4.1?	3.8?		4.10?	7.87	3.8?	8.17	8.10
18	4.5	4.2	4.6	4.40 ± 2 / ~~4.55 ± 0~~	4.55	7.94	4.40	8.09
19	5.1	4.8	5.1	~~4.6~~ 4.8 4.90 ± 2.1 / ~~5.00 ± 2~~	5.00	7.58	4.90	7.68
20	5.1	4.8	4.8	4.80 ± 0 / ~~4.95 ± 2~~	4.95	7.77	4.80	7.92
21	5.5	5.2	5.3	5.25 ± 1 / ~~5.40 ± 1~~	5.40	7.64	5.25	7.79
22	5.9	5.6	5.4	5.50 ± 1 / ~~5.65 ± 2~~	5.65	7.90	5.50	8.05
23	6.2	5.9	6.3	6.20 ± 2 / ~~6.25 ± 1~~	6.25	6.28	6.10	7.43
24	6.5	6.2	6.4	6.30 ± 1 / ~~6.45 ± 0~~	6.45	7.50	6.30	7.65
25	6.7	6.4	6.6	6.50 ± 1 / ~~6.65 ± 0~~	6.65	7.40	6.50	7.55
26			6.8	6.75 ± 1	6.75	7.37	6.75	7.87

ch. 0

See previous pages for Remarks on plates.

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1914phae.proj.10600

Monday July 13, 1914.

Scale P Scale Measures of A5 plates.

A8321 cont M3.

		sc.1	sc.2	sc.2	Diff.		Oct. 1914 Diff.
	27	7.55	7.5	7.6	7.53	7.11	7.04
	28	7.75	7.8	7.7	7.75	7.43	7.27
	29	8.40	8.4	8.4	8.40	6.94	7.00
	30	8.70	8.8	8.6	8.70		7.14
	31	9.25	9.2	9.3	9.25		

Seq. for M3

				Curve	Magn.	Oct. 1914 Curve	Oct. 1914 Magn.
α	2.1?			6.64 ~~6.89~~	8.44?	6.78	8.58?
β	3.3	3.0		7.58	10.58	7.52	10.52
γ	3.5	3.2	~~3.6~~	7.69	10.89	7.61	10.81
δ	4.4	4.1	4.4	4.25 ± 2	7.94	12.19	7.85	12.10
ε	5.6	5.3	~~5.8~~ 5.6 w.s.	5.55 ± 2	7.76	13.31	7.73	13.28
ζ	5.2	4.9	5.2	5.05 ± 2	7.87	12.92	7.81	12.86
η	6.6	6.3	6.6	6.45 ± 2	7.52	13.97	7.53	13.98
a	6.4	6.1	6.5	6.30 ± 2	7.55	13.85	7.58	13.88
b	6.4	6.1	6.3	6.20 ± 1	7.58	13.78	7.60	13.80
c	6.6	6.3	6.6	6.45 ± 2	7.52	13.97	7.53	13.98
d	6.8	6.5	6.8	6.65 ± 2	7.46	14.11	7.49	14.14
e			7.6		7.28	14.88	7.21	14.81
f			7.8		7.27	15.07	7.15	14.95
g			8.4	8.60 ± 0	7.26?	15.66?	7.02	15.42
h			8.6	8.6			6.98	15.58
k	t.p. nearly sup.							ch O
l	crowded.	9.2	9.25	9.3			6.87?	16.12?
m		8.7	8.75 ± 0	8.8			6.95	15.70
n		9.2?	9.30? ± 1	9.4?			6.85?	16.15?
o		9.6	9.65 ± 1	9.7				ch W
h			m.s.					

I m slightly brighter than l on this plate. 10.45

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1914phae.proj.10600

Monday, July 13, 1914.

Scale P. Scale measures of a 5' plates.

10:50 a 8358 {m 3 c 9 17+15°

Star Seq. | sc. 1. | sc. 2 | sc. 2 | Diff. 69 Magn. Mean | Mc. 3370, 5675 | July, 1914 Diff. | Cat. 1914 Diff.

1 too far from centre.

2

3

3a

4 1.6 1.3 | 1.60 6.08 | 1.3 | 6.38 | 6.52

5 1.5 1.2 | 1.50 6.31 | 1.2 | 6.61 | 6.86

6

6a

7 2.5 2.2 | 2.50 6.49 | 2.2 | 6.79 | 6.85

8 t.p. 2.6

8a 2.6 2.3 | 2.60 7.04 | 2.3 | 7.34 | 7.38

9 2.8 2.5 | 2.80 7.37 | 2.5 | 7.67 | 7.59

10 3.1 2.8 | 3.10 7.58 | 2.8 | 7.88 | 7.86

11 3.1 2.8 | 3.10 7.52 | 2.8 | 7.82 | 7.69

12 3.2 2.9 | 3.20 7.50 | 2.9 | 7.80 | 7.69

13 3.3 3.0 | 3.30 7.42 | 3.0 | 7.72 | 7.42

14 3.5 3.2 | 3.50 7.28 | 3.2 | 7.58 | 7.59

15 3.6 3.3 | 3.60 7.58 | 3.3 | 7.88 | 7.84

16 4.3 4.0 B. 4.30 | 4.30 7.20 | 4.0 | 7.50 | 7.62

17 4.4 4.1 4.3 4.35 | 4.35 7.62 | 4.20 | 7.77 | 7.70

18 5.2 4.9 4.9 5.05 | 5.05 7.44 | 4.90 | 7.59 | 7.50

19 5.1 4.8 4.7 4.90 | 4.90 7.68 | 4.75 | 7.83 | 7.71

20 5.2 4.9 5.21 5.20 | 5.20 7.62 | 5.05 | 7.67 | 7.66

21 5.8 5.5 5.5 5.65 | 5.65 7.39 | 5.50 | 7.54 | 7.47 Ch. ⊙

22 6.3 6.0 6.25 6.25 | 6.25 7.30 | 6.10 | 7.45 | 7.30

23 6.5 6.2 6.5 6.50 | 6.50 7.03 | 6.35 | 7.18 | 7.42

24 6.7 6.4 6.6 6.65 | 6.65 7.30 | 6.50 | 7.45 | 7.42

25 7.3 7.25 | 7.25 6.80 | 7.25 | 6.80 | 6.87

26 7.3 7.20 7.1 | 7.20 6.92 | 7.20 | 6.92 | 6.87

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1914phae.proj.10600

Monday July 13, 1914.

Scale V Scale Measures of a V plates cont.

a 8358

	sc.2			Diff.	Diff.
27	7.80 7.8	7.8	7.80	6.86	6.79
28	8.55 8.6	8.5	8.55	6.63	6.47
29	9.15 9.1	9.2	9.15	6.19	6.25 ch W
30	7				
31	n.s.				

Oct. 1914

Seq. for Cluster	sc.1	sc.2		Curve	Magn.	Curve	Magn.
α	1.6	1.3		6.50	7.80	6.54	7.84
β	3.6	3.3		7.76	11.06	7.73	11.03
γ	3.7	3.4	B.	7.77	11.17	7.73	11.13
δ	5.2 4.9	4.7	4.80 ± 1	7.78	12.51	7.63	12.43
ε	6.5 6.2	6.5	6.35 ± 1	7.36	13.71	7.30	13.65
ζ	5.8 5.5	5.7	5.60 ± 1	7.59	13.19	7.48	13.08
η		7.3		6.96	14.26	6.97	14.27
a	6.8 6.5	6.8	6.65 ± 2	7.24	13.89	7.20	13.85
b	6.7 6.4	7.3	6.85 ± 5	7.16	14.01	7.12	13.97
c		7.4		6.92	14.32	6.92	14.32
d		7.6		6.84	14.44	6.85	14.45
e		7.8		6.77	14.57	6.78	14.58
f		8.6		6.48	15.08	6.48	15.08
g		8.8		6.40	15.20	6.39	15.19
h	9.4	9.35 ± 1	9.3	6.28	15.63	6.19	15.54
k	sup.	sup.					
l	9.4	9.45 ± 1	9.5			6.11	15.59
m	9.5	9.45 ± 0	9.4			6.14	15.59 ch. O
n	9.8 ?	9.80 ± 0	9.8 ?			6.60 &	15.80 &
o	f						
p							

Images on this exposure are elongated.

ch W

11:16

m & a appears slightly brighter than l.

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1914phae.proj.10600

Monday July 13, 1914.

Scale P. Scale measures of a 5' plate. cont.

R 8363 m5 c9 } 17 + 15°.

	PC 1.	PC 2.	PC 3	C 9 mean MC 3370, 5675, 5698		July 1914 Diff.	Diff.
1, 2, 3, 3a, 6, 6a are too far from center of field to measure	4	1.6	1.3	1.60	6.08	1.3	6.38	6.52
	5	1.8	1.5	1.80	6.01	1.5	6.31	6.56
	7	1.8	1.5	1.80	7.19	1.5	7.49	7.55
	8	2.1	2.4	2.70	6.84	2.4	7.14	7.13
	8a							
	9	2.8	2.5	2.80	7.37	2.5	7.67	7.59
	10	2.8	2.5	2.80	7.88	2.5	8.18	8.16
	11	3.1?	2.8?	3.10?	7.52	2.8?	7.82	7.69
	12	2.8	2.5	2.80	7.90	2.5	8.20	8.09
	13	2.8	2.5	2.80	7.92	2.5	8.22	8.22
	14	3.3	3.0	3.30	7.48	3.0	7.78	7.79
	15	3.6	3.3	3.60	7.58	3.3	7.88	7.84
	16	3.6	3.3	3.60	7.90	3.3	8.20	8.32
	17	4.1	3.8	4.15	7.82	4.00	7.97	7.90
	18	5.1	4.6	4.85	7.64	4.70	7.79	7.70
	19	5.1	4.6	4.85	7.73	4.70	7.88	7.76
	20	5.4	5.1	5.35	7.37	5.20	7.52	7.51
	21	5.5	5.2	5.45	7.59	5.30	7.74	7.67
	22	6.2	5.9	6.20	7.35	6.05	7.50	7.35
	23	6.4	6.1	6.45	7.08	6.30	7.23	7.47
	24	6.7	6.4	6.70	7.25	6.55	7.40	7.37
	25	7.35	7.3	7.4	7.35	6.70		6.77
	26	7.35	7.4	7.3	7.35	6.77		6.72
	27	7.90	7.7	8.1	7.90	6.76		6.69
	28	8.50	8.5	8.5	8.50	6.68		6.52
(meas. 27)	29	8.60	8.6	8.6	8.60	6.74		6.80
	30	9.55	9.5	9.6	9.55			6.29
	31	10.0	10.0	10.0	10.00			

Ch. O.

Images are elongated — difficult to compare with Scale.

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Monday, July 13, 1914.

Scale P

Scale measures of a 1° plate. cont.

a 8363 cont.

		sc.1	sc.2	sc.2	curve	Magn.	Oct, 1914. curve	Magn.
a =	α	3.8 8.5			8.03	11.53	8.06	11.56
	β	4.3 4.0	4.3	4.15 ± 1	7.91	12.06	7.92	12.07
too much elong.	γ	.			.	.	.	.
	δ	5.1 4.8	4.1	4.75 ± 1	7.82	12.57	7.77	12.52
	ε	~~6.5~~ 6.2 ~~4.8~~	6.4	6.30 ± 1	7.36	13.66	7.29	13.59
wr plate	ζ	6.6 6.3	6.5	6.40 ± 1	7.33	13.73	7.25	13.65
α =	a				.	.	.	.
	b	3.8 4.2 8.5 8.9	4.3	4.3 4.00 ± 1 .33	7.99	11.99	7.97	11.97
	c	5.3 5.0	5.3	5.~~4~~0 ± 1 .15 .31	7.63 7.1	~~13.03~~ 12.86	7.66	12.81
	d	6.2 5.9	6.3	6.10 ± 2	7.41	13.51	7.36	13.46
from	e	6.1 5.8	6.2	6.03 ± 2	7.45	13.45	7.40	13.40
	f	6.6 6.3	6.7	6.65 ± 1 6.50 ± 2	7.24 9	13.89 7	7.21	13.71
	g		7.3	7.35 ± 1.0 7.4	6.97	14.32	6.90	14.25
	h		7.8	7.90 ± 1 8.0	6.76	14.66	6.72	14.62
no c.s. K.	l		8.5	8.50 ± 1.0 8.5	6.62	15.12	6.58	15.08
	m		8.5	8.55 ± 1.0 8.6	6.61	15.16	6.57	15.12
	n*		~~8.7~~ 9.1	9.10 ± 1.0 ~~8.7~~ 9.1	.	.	6.43	15.53
too crowded for safe measure	o		.					
	p.		~~It.~~		.			

ch. W

upon re-examination, found wrong plate had been measured for n.
Crowded in region of n.

ch. O

11:50

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