KG
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Observing Book. 9.

M.E. O'Reilly

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No series reductions in this book made with magns.
on scale of HC 170.

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

Sept 11, 1918.

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Tuesday September 22, 1914.

Scale U

1:45

Series 288

Mc 5873

Pole.

				Mc 5678	Mc 5884	Mean	Res.	Diff	P.C.		Mc 5878	Mc 5884	Mean				D
				f. 13	f. 21												
5									5.6	5.6	5.60	00	5.60	5.20	5.47	13 13 27	10
6									6.4	6.3	6.35	01	6.40	5.65	6.13	22 27 48	09
8									7.4	7.4	7.40	00	7.40	6.60	7.13	27 27 53	11
9									7.7	7.6	7.65	10	7.70	7.40	7.58	07 12 18	12
10	4.7			4.7	4.4	4.60	11	2	4.42	7.7	7.7	7.70	00	7.75	7.50	7.65	05 10 15	13
11	4.8	5.0	4.90	1	1	5.1	4.6	4.87	03 23 27	4.68	8.4			8.4	7.7	8.17	2 2 3	13
12	5.4			5.4	4.9	5.23	22	3	4.63	8.5				8.7	8.4	8.53	0 2 1	13
13	5.1			5.9	5.2	5.60	13	4	4.70	8.8				8.8	8.7	8.77	0 0 1	15
14	6.3			6.1	5.6	6.00	3 1	4	4.65	9.4				9.1	8.9	9.13	3 0 7	15
15	6.6			6.6	5.7	6.30	33	6	4.78	9.8				9.6	.	9.70	1 1 .	13
16	6.7			6.7	6.3	6.57	11	3	4.83	n.s.				F		F		
17	6.8			6.8	6.4	6.67	11	3	4.96									
18	7.4			7.4	6.7	7.17	22	5	4.89									
19	7.6			7.7	7.4	7.57	01	2	4.85									
20	7.8			8.2	7.6	7.87	1 3	3	4.86									
23	8.5			8.4	7.7	8.20	32	5	5.14									
25	8.7	8.7	8.70	0	0	8.70	8.50	8.63	07 07	13	5.24							
26	8.8	8.8	8.80	0	0	8.95	8.65	8.80	00 15	15	5.53							
27	9.4	9.4	9.40	0	0	9.40	9.05	9.28	12 12	23	5.41							
28	9.6	9.6	9.60	0	0	9.50	9.50	9.53	07 03	03	5.58							
29	9.9	9.8	9.85	1	0	9.85	9.80	9.83	02 02	03	5.83							
30			F			F	F	F										

Ch. F.6.

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Tuesday September 22, 1914.

Scale 11 Series 288 — 4.8 Card.

Mc 5874 Saturn 1900 18 10 - 22 5.

Diff.					Curve.	Magn	P.C.	P.C.			Curve	Magn
1.02	1	3.5					6.4	6.4	6.40	0 0	1.04	7.44
0.98	2	4.0					6.7	6.8	6.75	± 0	1.06	7.81
1.10	3	4.5			4.52	9.02	7.7	7.7	7.70	0 0	1.26	8.96
1.25	4	4.6			4.55	9.15	7.7	7.7	7.70	0 0	1.26	8.96
1.37	5	4.6			4.55	9.15	8.2	8.4	8.30	± 1	1.39	9.69
1.38	6	5.9			4.64	9.94	8.4				1.42	9.82
1.33	7	5.5			4.67	10.17	8.1				1.47	10.17
1.53	8	6.4			4.80	11.20	t.p.				.	.
1.52	9	6.6			4.84	11.44						
1.38	10	7.6			5.00	12.60						
	11	7.7			5.03	12.73						
	12	8.3			5.19	13.49						
	13	8.7			5.30	14.00						
	14	8.7	8.7	8.70	0 0	5.30	14.00					
	15	8.8	9.1	8.95	± 2	5.39	14.34					
	16	9.4	9.4	9.40	0 0	5.55	14.95					
	17	9.4	9.2	9.30	± 1	5.51	14.81					
	18	9.6	9.6	9.60	0 0	5.60	15.20					
closer to a defect.	19	.	.	.			.					
	20	9.7	9.7	9.70	0 0	5.65	15.35					

Ch. F. C.

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Scale U

Series 288. Copied

Card.

Mc 5875

U Serpentis alt. -.32

43 Ks

	U Serpentis		Curve.	Magn.	B.C.			Curve.	Magn.
α	3.8				6.6	6.7	6.65 .01	1.06	7.71
β	3.8				7.3	7.2	7.25 .10	1.17	8.42
a	4.6		4.55	9.15	7.1	7.1	7.10 .00	1.26	8.96
a'	4.7		4.56	9.26	8.1	8.1	8.10 .00	1.35	9.45
b	4.9		4.58	9.48	8.5	8.4	8.45 .10	1.42	9.87
c	5.3		4.64	9.94	8.1			1.47	10.17
d	5.0		4.59	9.59	8.1			1.47	10.17
d'	5.6		4.69	10.29	9.3			1.52	10.82
d^2	5.6		4.69	10.29	9.6?			1.52	11.12?
d^3	6.1		4.77	10.87	~~9.5~~				
W.S. e	~~4.8~~ 6.5		4.82	11.32	~~8.1~~				
f	6.3		4.79	11.09					
k	7.3		4.94	12.24					
l	7.5		4.98	12.48					
m	8.2	7.7	7.95 23	5.08	13.03				
n	8.6	8.5	8.55 .01	5.25	13.80				
o	8.7	8.7	8.70 .00	5.30	14.00				
p	8.8	8.9	8.85 .01	5.35	14.20				
q	9.7	9.1	9.40 .32	5.55	14.95				
Var.	4.8				8.7				

Images are all at ~~left~~ edge of plate, therefore poor and difficult to compare with scale.

Ch. F. 6. Not copied.

Ref. Seq. for centre of pl. → 1	3.6				6.4	6.4	6.40 .00	1.03	7.43
2	4.2				7.4	7.4	7.40 .00	1.20	8.60
3	4.5		4.52	9.02	7.6	7.7	7.65 .01	1.25	8.90

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Scale R Series 288 Card.

MC 5875 ♯ cont. Alt -.321

					Curve.	Magn					Curve	Magn
ref. seq. cont.	4	4.7			4.56	9.26	8.3	8.21	8.25	i o	1.38	9.63
	5	5.3			4.64	9.94	8.6	8.5	8.55	o 1	1.44	9.99
	6	5.4			4.67	10.07	8.1				1.46	10.16
	7	5.9			4.74	10.64	9.4				1.52 ~~1.45~~	10.92 ~~10.85~~
	8	6.4			4.80	11.20	9.7? poor.				1.51½ ~~1.39?~~	11.21? ~~11.07~~
	9	6.7			4.84	11.54						
	10	7.2	7.0	7.10 i 1	4.90	12.00						
	11	7.2	7.2	7.20 o o	4.92	12.12						
	12	7.6			5.00	12.60						
	13	8.2			5.15	13.35						
	14	8.4			5.28 2	13.59 62						
	15	8.4			5.28 2	13.59 62						
	16	8.6	8.6	8.60 o o	5.28	13.88						
	17	8.7	8.7	8.70 o o	5.30	14.00						
	18	8.8	8.7	8.75 o 1	5.32	14.07						
	19	9.6	9.5	9.55 o 1	5.59	15.14						
	20	9.8	9.7	9.75 o 1	5.68	15.43						

lespied Card.

Seq. for 43 Ks	1	B.					5.7				1.01	6.71
	2	3.7					6.6				1.05	7.65
	3	4.8		~~4.57~~	4.57	9.37	8.4				1.41	9.81
	4	4.7			4.56	9.26	8.4				1.41	9.81
	5	5.6			4.69	10.29	8.1				1.46	10.16
	6	6.2			4.78	10.98	scr.	Ch. F. 6.				
	7	6.6			4.83	11.43						
	8	6.7			4.84	11.54						
	9	7.3			4.94	12.24						

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Scale U

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MC5815 cont.

Sep. for 43 KS

				Curve.	Magn
10	7.7			5.02	12.72
11	8.5	8.4	8.45 ± 0	5.28	13.64
12	8.7	8.6	8.65 ± 0	5.29	13.94
13	9.4	9.4	9.40 ± 0	5.55	14.95
14	9.4	9.4	9.40 ± 0	5.55	14.95
15	9.5	9.6	9.55 ± 0	5.60	15.15

Ch. F.C.

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Scale R Series 288 Copied Card.

MC 5816 3 KS. Alt + 1s

					Curve.	Magn	P.C.			Curve.	Magn
1	3.1						6.6	6.6	6.60 .00	1.05	7.65
2	4.5				4.52	9.02	7.1	7.1	7.70 .00	1.26	8.96
3	5.1				4.62	9.72	8.1	8.1	8.70 .00	1.46	10.16
4	5.4				4.66	10.06	8.1	8.6	8.65 .10	1.46	10.11
5	5.4				4.66	10.06	9.1	8.8	8.95 .12	1.50	10.45
6	5.1				4.71	10.41	9.4			1.52	10.92
7	6.4				4.80	11.20	10.0?			1.51	11.51?
8	6.6				4.83	11.43					
9	6.6				4.83	11.43					
10	7.1				4.90	12.00					
11	7.6	7.5	7.55	.01	4.99	12.54					
12	7.7	7.8	7.75	.10	5.04	12.79					
13	8.5	8.6	8.53	.10	5.26	13.81					
14	9.2	9.2	9.20	.00	5.48	14.68					
15	9.6	9.6	9.60	.00	5.61	~~15.21~~					

Star 12 examined and no evidence found either of mistake in measure, or of variability.

Ch. F. C.

Star 15. Wrong star marked on plate. Rejected July 24 1916

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Tuesday September 22, 1914.

Scale 11 Series 288 Isopsied Card.

Mc 5877 110 K. Alt +031

									Curve.	Magn
			Curve.	Magn	B.C.					
1	4.8		4.57	9.37	8.7	8.7	8.70	0 0	1.47	10.17
2	5.0		4.59	9.59	8.9	9.1	9.00	-1 1	1.50	10.50
3	5.8		4.73	10.53	9.5	9.6	9.55	-1 0	1.52	11.07
4	6.1		4.76	10.86	9.6	9.7	9.65	0 1	1.52	11.17
5	6.5		4.81	11.31	n.s.					
6	7.2		4.92	12.12						
7	7.6		5.00	12.60						
8	7.8		5.05	12.85						
9	8.2		5.15	13.35						
10	8.4		5.22	13.62						
11	8.7		5.30	14.00						
12	8.8	8.7	8.75	0 -1 5.32	14.07					
13	8.7	8.8	8.75	-1 0 5.32	14.07					
14	8.8	8.8	8.80	0 0 5.34	14.14					
*15	8.7	8.7	~~8.70~~	~~0 0 5.30~~	~~14.00~~					
16	9.4	9.4	9.40	0 0 5.55	14.95					

* Examined Dec. 14, 1915
* Reject wrong star marked and measured. O.

bh. F.B.

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Tuesday September 22, 1914.

Scale 11

mc 5878 Pole.

				Curve.	Magn	O.C			Curve	Magn
5						5.6	5.6	5.60 0 0	1.40	6.60
6						6.4	6.4	6.40 0 0	1.44	7.44
8						7.4	7.4	7.40 0 0	1.49	8.89
9						7.7	7.7	7.70 0 0	1.26	8.96
10	4.7			4.56	9.26	7.8	7.7	7.75 0 1	1.27	9.02
11	5.1			4.62	9.72	8.4			1.42	9.82
12	5.4			4.66	10.06	8.7			1.46	10.16
13	5.9			4.74	10.64	8.8			1.49	10.29
14	6.1			4.76	10.86	9.1			1.51	10.61
15	6.6			4.83	11.43	9.6			1.52	11.12
16	6.7			4.84	11.54	F.				
17	~~6.~~6.8			4.86	11.66					
18	7.4			4.96	12.36					
19	7.7			5.02	12.72					
20	8.2			5.15	13.35					
23	8.4			5.22	13.62					
25	8.7	8.7	8.70 0 0	5.30	14.00					
26	9.1	8.8	8.95 1 2	5.39	14.34					
27	9.4	9.4	9.40 0 0	5.55	14.95					
28	9.5	9.5	9.50 0 0	5.58	15.08					
29	9.8	9.9	9.85 0 1	5.70	15.55					
30	F.		F			Ch. F.C.				

See p. 6

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Scale U Series 288 Copied Card.

mc 5879 C 10 19 +15° alt. +.15

			Curve	Magn.	G.C.			Curve	Magn.
1	B.				5.6	5.5	5.55 0 1	1.01	6.56
2	3.2				5.1	5.1	5.70 0 0	1.01	6.71
3	3.3				5.1	5.1	5.70 0 0	1.01	6.71
4	3.4				6.4	6.4	6.40 0 0	1.04	7.44
5	3.8				6.7	6.8	6.75 1 0	1.06	7.81
6	3.1				double - too close for scale meas.				
7	3.6				6.6			1.05	7.65
8	4.4				7.5			1.22	8.72
9	4.4				7.8			1.29	9.09
10	4.1		4.56	9.26	8.4			1.42	9.82
11	5.0		4.59	9.59	8.6			1.46	10.06
12	5.5		4.67	10.17	8.7? prep?			1.47	10.17
13	5.6		4.69	10.29	9.5			1.52	11.02
14	5.8		4.73	10.53	9.5			1.52	11.02
15	6.1		4.76	10.86	F.				F
16	6.5		4.81	11.31					
17	6.7		4.84	11.54					
18	7.3		4.94	12.24					
19	7.6		5.00	12.60					
20	7.6		5.00	12.60					
21	8.4		5.22	13.62					
22	8.6		5.28	13.88					
23	8.7		5.30	14.00					
24	8.1	8.1	8.70 0 0	5.30	14.00				
25	9.3	9.3	9.30 0 0	5.50	14.80				
26	9.4	9.5	9.45 0 1	5.57	15.02				

double combined light measured.

bb. F. b.

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Tuesday, September 22, 1914.

Scale U

Series 288

MC 5879 C10 cont. Alt. +15

				Curve	Magn
27	9.1	9.8	9.75 ±.10	5.68	15.43
28	9.9	10.0?	9.95 ±.10	5.74	15.69
b	7.4			4.96	12.36
c	7.8			5.05	12.85

bh. F. b.

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Scale

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Card.

Mc 5880 ~~Carte~~ Dm. 19 +25.0 Alt. 18

				Curve.	Magn		Curve.	Magn
	01	3.5				6.5	1.04	7.54
	02	3.6				7.2	1.15	8.35
	03	4.1				7.6	1.25	8.85
	04	4.5				8.3	1.39	9.69
	05	4.1		4.56	9.26	8.7	1.47	10.17
	06	5.4		4.67	10.07	8.8	1.49	10.29
	07	5.6		4.69	10.29	9.2	1.51	10.71
	08	5.6		4.69	10.29	9.7	1.52	11.22
reject 09 of DM Seq. retains 8 of Carte Seq. See note on cover of Mc 5682	~~8~~	~~6.4~~		~~4.80~~	~~11.20~~	~~M.S.~~		
9=	010	6.5		4.82	11.32			
	011	7.2		4.93	12.13			
	012	7.4		4.97	12.37			
15=	013	7.8		5.05	12.85			
	014	8.6		5.28	13.88			
	015	8.1		5.30	14.00			
	016	8.8	8.1	8.75 01	5.32	14.07		
	017	9.4	9.3	9.35 01	5.52	14.87		
	018	9.5	9.4	9.45 01	5.57	15.02		
	019	9.7	9.7	9.70 00	5.65	15.35		
	020	9.8	9.7	9.75 01	5.67	15.42		

Ch. F. C.

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Scale U Series 288. Copied Card.

Mc 5881 Carte 19 +39.5 Alt +.20

			Curve.	Magn	P.C.			Curve	
1	B.				4.1	4.1	4.10 0.0		
2	B				5.6	5.1	5.65 0.1	1.00	6.65
3	3.1				6.21	6.21	6.20 0.0	1.02	7.22
4	3.1				6.5	6.5	6.50 0.0	1.04	7.54
5	3.1				6.6	6.5	6.55 0.1	1.04	7.59
6	4.1				7.4			1.19	8.59
7	4.5		452	9.02	7.7			1.26	8.96
8	4.5		452	9.02	7.7			1.26	8.96
9	4.8		458	9.38	8.6			1.46	10.06
10	5.5		467	10.17	9.2			1.51	10.71
11	5.5		467	10.17	9.21			1.51	10.71
12	5.1		471	10.41	~~8.1~~ sup.?				
13	6.4		480	11.20					
14	6.5		482	11.32					
15	6.6		483	11.43					
16	6.8	6.8	6.80 0.0	1.486	11.66				
17	7.5	7.6	7.55 1.0	1.498	12.53				
18	7.8	7.7	7.75 0.1	5.03	12.78				
19	8.4	8.4	8.40 0.0	5.28	13.59				
20	9.1	9.1	9.10 0.0	5.44	14.54				

Eh. F. C.

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1914phae.proj.10630

Tuesday September 22, 1914.

Scale 11 Series 288 Exposed Card.

Mc 5882 δ Cephei 21 +67.5 Alt. +.18

			Curve.	Magn	P.C.		Curve.	Magn
Off plate	a	.			.			
	b	B.			5.0 5.1	5.05 .01		
" "	c	.			.			
	d	~~B. 5.4~~			5.4 5.5	5.45 .01	1.01	6.46
	e	B.			6.3 6.3	6.30 .00	1.03	7.33
	f	3.9			6.6 6.7	6.65 .01	1.05	7.70
	g	3.7			6.7 6.7	6.70 .00	1.06	7.76
	g'	3.7			6.6		1.05	7.65
	h	3.6			6.5		1.04	7.54
	h'	4.3			7.4		1.20	8.60
	k	4.5	4.52	9.02	7.7		1.26	8.96
	k'	4.5	4.52	9.02	~~6.2~~ sup?			
	k^2	4.7	4.56	9.26	7.8		1.29	9.09
	l	4.7	4.56	9.26	8.4 ±		1.42	9.82
	m	5.2	4.63	9.83	8.4 ±		1.42	9.82
	n	5.6	4.69	10.29	9.4 ±		1.52	10.92
*	o	6.1	~~4.76~~	~~10.86~~				
	o'	6.1	4.76	10.86				
	p	6.1	4.84	11.54				
	q	6.7	4.84	11.54				
	q'	6.4	4.80	11.20				
	r	6.7	4.84	11.54				
	r'	7.3	4.94	12.24				
	s	7.7	5.02	12.72				
	t	7.7	5.03	12.73				
	u	8.4 8.4	8.40 .00	5.2X				13.62

P.C.

	Sc. 1	Sc. 2	±
l			8.4
m	4.7'		8.3
n		5.6	9.3
o		5.5	
o'		5.9	

Above measures evidently correct! O.

Kh. F. b.

* Reject. wrong star measured?

O

mar. 9, 1916.

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Tuesday September 22. 1914.

Scale U

Series 288 Copied

Mc 5882 Y Cephei cont. alt + 18

				Curve.	Magn.
W	8.5	8.6	8.55	10	5.26	13.81
X	8.8	8.8	8.80	00	5.34	14.14
Y	9.5	9.5	9.50	00	5.58	15.08
Z	9.6	9.6	9.60	00	5.60	15.20
Var.	3.6				7.4	4.96	12.36

Ch. F.b.

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1914phae.proj.10630

Tuesday September 22, 1914.

Scale U Series 288 keypunch Card.

MC 5883 X Cephei 21 +82.5 Alt. +.9

				Curve	Magn	C.C.				Curve	Magn
c	4.6			4.55	9.15	1.8	8.28	8.00	2 2	1.35	9.35
a	4.8			4.58	9.38	8.6	8.6	8.60	0 0	1.46	10.06
e	5.2	5.0	5.00 00	4.61	9.71	~~6.7~~ 8.7	8.1	8.70	0 0	1.47	10.17
b	4.1			4.56	9.26	8.6	8.6	8.60	0 0	1.45	10.05
d	5.4			4.67	10.07	8.7	8.8	8.75	1 0	1.48	10.23
f	5.6			4.69	10.29	9.4				1.52	10.92
g	6.4			4.80	11.20	9.9?	poor.			1.51	11.41 ?
h	6.3			4.79	11.09						
k	6.6			4.83	11.43						
l	6.6			4.83	11.43						
m'	6.8			4.86	11.66						
n	7.4			4.97	12.37						
o	7.1			5.03	12.73						
p	7.1			5.03	12.73						
r	8.3			5.19	13.49						
N	8.4			5.23	13.63						
q	8.5			5.24	13.74						
t	8.4	8.4	8.40 00	5.22	13.62						
C.C.	~~t~~										
w	8.8	8.8	8.80 00	5.34	14.14						
x	9.4	9.3	9.35 0 1	5.52	14.87						
y	9.4	9.4	9.40 00	5.55	14.95						
z	9.5	9.5	9.50 00	5.58	15.08						
Var.	6.3			4.79	11.09						

bh. F.C.

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Tuesday September 22, 1914.

Scale R Series 288.

	Mc 5884	Prelr.		P.C.	
5				5.2 5.2	5.20 0 0
6				5.6 5.7	5.65 0 1
8				6.6 6.6	6.60 0 0
9				7.4 7.4	7.40 0 0
10	4.4			7.5 7.5	7.50 0 0
11	4.6			7.7	
12	4.9			8.4	
13	5.2			8.1	
14	5.6			8.9	
15	5.7				
16	6.3				
17	6.4				
18	6.7				
19	7.4				
20	7.6				
23	7.7				
25	8.5	8.5	8.50 0 0		
26	8.6	8.7	8.65 0 1		
27	8.8	9.3	9.05 2 3		
28	9.5	9.5	9.50 0 0		
29	9.8	9.8?	9.80 0 0		
30	~~Ft~~	F.		Ch. F. 6.	

See p. 6

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Thursday September 24, 1914.

Scale 12:35

Series 297.

MC 5977 Pole.

	5982		MC 5982 Mean		Diff.	P.C.				5982 Mean		Diff
5						5.7	5.6	5.65	1 0	5.60	5.62	03 02 0.87
6						6.5	6.3	6.40	~~1 0~~ 1	6.40	6.40	00 00 0.71
8						7.5	7.6	7.55	1 0	7.45	7.50	05 05 0.73
9						8.0	8.1	8.05	0 1	8.20	8.12	07 08 0.71
10	4.3		4.4	4.35	1 0	8.4	8.4	8.40	0 0	8.20	8.30	10 10 0.72
11	4.6		4.7	4.65	0 1	8.6				8.5	8.55	0 1 1.00
12	4.1		4.9	4.80	1 1	8.1				8.8	8.75	1 0 1.11
13	5.4		5.5	5.45	0 1	9.5				9.1	9.30	2 2 1.00
14	5.6		5.6	5.60	0 0	9.8				9.7	9.75	0 1 0.90
15	6.1		6.2	6.15	1 ~~2~~ 0	F.				F.	F.	
16	6.3		6.4	6.35	1 0							
17	6.6		6.8	6.70	1 1							
18	7.3		7.3	7.30	0 0							
19	7.6		7.5	7.55	0 1							
20	7.1	7.1	7.70	0 0 7.80	7.75	0 5	0 5	4.98				
23	8.4	8.3	8.35	0 1 8.45	8.40	0 5	0 5	~~5.59~~ 4.94				
25	8.1	8.8	8.75	1 0 8.70	8.72	0 3	0 2	5.15				
26	9.6?	9.5	9.55	0 1 9.25	9.40	1 5	1 5	4.93				
27	9.9?	9.8	9.85	1 0 9.40	9.62	2 3	2 2	5.07				
Im. los floor. 28			g	F.	F.							
29												
30												

Ch. F. 6.

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Thursday September 24, 1914.

Scale U

Series 297. Lespiel Card.

Mc 5978 Nova Aquilae No. 1. 19 20 0.0 Alt +.66

						P.C.			Curve	Magn
a	B.									
b	4.0			4.70	8.70	7.6	7.6	7.60 00	0.74	8.34
c	4.0			4.70	8.70	7.6	7.6	7.60 00	0.74	8.34
d	4.3			4.77	9.07	7.8	7.7	7.75 01	0.76	8.51
e	4.6			4.85	9.45	8.2	8.2	8.20 00	0.84	9.04
f	5.0			4.90	9.90	8.6			0.93	9.53
g	5.1			4.94	10.64	9.4			1.03	10.43
h	5.6			4.94	10.54	def?				
k	6.5			4.95	11.45					
l	6.3			4.95	11.25					
m	6.6			4.96	11.56					
n	7.3	7.3	7.30 00	4.97	12.27					
o	6.8	6.9	6.85 01	4.96	11.81					
p	7.1			4.96	12.06					
q	7.8			4.97	12.77					
r	8.4			4.99	13.39					
s	8.6			4.99	13.59					
t	8.5	8.5	8.50 00	4.99	13.49					
u	8.1	8.1	8.70 00	4.99	13.69					
w	8.8	9.3	8.9 9.00 23	5.00	14.00					
x	9.5	9.4	9.45 10	5.00	14.45					
y	9.1	9.1	9.70 00	5.00	14.70					
						Ch. F.6.				
Ref. seq for centre of fr.	1	3.5				6.7	6.7	6.70 00	0.71	7.41
	2	4.4		4.80	9.20	7.8	8.2	8.00 22	0.71	8.71
	3	4.4		4.80	9.20	8.4	8.4	8.40 00	0.73	9.13

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Scale U

Series 297. Card.

MC5978 cont. Alt. +.06

					Curve.	Magn	G.C.			Curve	Magn
Ref. Seg. cont.	4	4.6			4.85	9.45	8.6	8.6	8.60 00	0.93	9.53
	5	4.8			4.87	9.67	8.7	8.7	8.70 00	0.95	9.65
	6	5.5			4.94	10.44	9.1			1.01	10.11
	7	6.1			4.94	11.04	9.6			1.03	10.63
	8	6.4			4.95	11.35	9.8			1.02	10.82
	9	6.7			4.95	11.65	f			.	(f)
	10	6.8			4.96	11.76					
	11	7.6			4.97	12.57					
	12	7.7			4.97	12.67					
	13	8.4			4.99	13.39					
	14	8.4			4.99	13.39					
	15	8.4			4.99	13.39					
	16	8.6	8.6	8.60 00	4.99	13.59					
	17	8.7	8.7	8.70 00	4.99	13.69					
	18	8.8	8.8	8.80 00	5.00	13.80					
	19	9.4	9.4	9.40 00	5.00	14.40					
	20	9.8	10.9	9.90 1.1	5.00	14.90					

bh F.b.

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Scale U Series 297 Copied. Card.

MC 5979 R Cygni. 19 30 +50.0 alt +.2121

				Curve	Magn.	O.C.			Curve	Magn
Ff plate.	a									
	b	B.				5.2	5.1	5.15 .01		
	c	B.				6.5	6.4	6.45 .10	0.72	7.17
	d	3.0				6.3	6.3	6.30 .00	0.73	7.03
	e	B				5.6	5.6	5.60 .00	0.80	6.40
	f	3.5				7.4	7.4	7.40 .00	0.73	8.13
	g	B.				6.7			0.71	7.41
	h	3.8				7.1			0.75	8.45
	k	3.5				7.2			0.71	7.91
	l	4.2		4.76	8.96	7.1			0.75	8.45
	m	4.5		4.83	9.33	8.1			0.95	9.65
	n	4.7		4.86	9.56	9.4			1.02	10.42
	o	4.8		4.87	9.67	9.4			1.02	10.42
	p	5.1		4.91	10.01	9.4			1.02	10.42
	q	5.6		4.94	10.54	9.9			1.02	10.92
	r	5.6		4.94	10.54	9.9			1.02	10.92
	s	6.4		4.95	11.35					
	t	6.6		4.95	11.55					
	u	7.4	7.4	7.40 .00	4.97	12.37				
	w	6.8	6.8	6.80 .00	4.96	11.76				
	v	7.6			4.97	12.57				
	y	8.4	8.4	8.40 .00	4.99	13.39				
	z	9.2	9.3	9.25 .01	5.00	14.25				
	α	9.4	9.4	9.40 .00	5.00	14.40				
Var.		7.6			4.97	12.57				

Ch. F.6.

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1914phae.proj.10630

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Scale K. Series 297 Corrected

MC 5980 111 K Att + 04

			Curve	Magn		B.C.		Curve	Magn
1	3.0					6.4	6.4	6.40 00	0.72	7.12
2	4.0		4.69	8.69		7.8	7.8	7.80 00	0.77	8.57
3	4.5		4.82	9.32		8.7	8.6	8.65 10	0.94	9.59
4	4.9		4.89	9.79		t.p.	t.p.			
5	5.3		4.93	10.23		9.6	9.6	9.60 00	1.03	10.63
6	5.8		4.95	10.75		9.8			1.02	10.82
7	5.1		4.94	10.64		9.9			1.02	10.92
8	6.5		4.95	11.45						
9	6.7		4.96	11.66						
10	7.4		4.97	12.37						
11	8.4		4.99	13.39						
12	8.4	8.4	8.40 00	4.99	13.39					
13	8.4	8.4	8.40 00	4.99	13.39					
14	8.4	8.6	8.50 11	4.99	13.49					
15	8.9	8.8	8.85 10	5.00	13.85					
16	9.1	9.5	9.60 11	5.00	14.60					

Ch. F.b.

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Scale V

Series 297.

MC 5982

Pole.

5				5.6	5.6	5.60	00
6				6.4	6.4	6.40	00
8				7.4	7.5	7.45	01
9				8.1	8.3	8.20	11
10	4.4			8.1	8.3	8.20	11
11	4.1			8.5			
12	4.9			8.8			
13	5.5			9.1			
14	5.6			9.7			
15	6.2			F.			
16	6.4						
17	6.8						
18	7.3						
19	7.5						
20	7.8	7.8	7.80	00			
23	8.4	8.5	8.45	01			
25	8.6	8.8	8.70	11			
26	9.3	9.2	9.25	10			
27	9.4	9.4	9.40	00			
28	F.		F.				
29							
30				Ch. F. b.			

See p 22

too warm to continue.

7

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Saturday September 26, 1914.

Scale 10
9.00

Series 297.

mc 5982 Pole-

			mc 5988 Mean Res. Diff	P.C.		mc 5988	Mean		Diff
5				5.7 5.6	5.65 i 0	5.55	5.60	05 05	0.89
6				6.4 6.4	6.40 0 0	6.30	6.35	05 05	0.76
8				7.4 7.6	7.50 1 1	7.40	7.45	05 05	0.78
9				1.8 8.0	7.90 1 1	7.80	7.85	05 05	0.98
10	4.4		4.4 4.40 0 0 4.62	1.9 8.0	7.95 1 0	8.40	8.18	23 22	0.84
11	4.7		4.7 4.70 0 0 4.85	8.4		8.6	8.50	½ 1	1.05
12	5.0 4.9 5.5		4.95 0 1 4.9 4.92 03 02 +0	4.94 8.5 8.1	8.60 1 1	8.8	8.80	1 1	1.16
13	5.4		5.3 5.40 1 1	4.90 9.4		9.4	9.40	0 0	0.90
14	5.7		5.6 5.65 1 0	5.00 9.6		9.6	9.60	0 0	1.05
15	6.0		5.7 5.85 2 1	5.23 9.8		9.9	9.85	0 1	1.23
16	6.5		6.4 6.45 1 0	4.95 F.			F.		
17	6.7		6.7 6.70 0 0	4.93					
18	7.0		7.2 7.10 1 1	4.96					
19	7.5		7.5 7.50 0 0	4.92					
20	7.6		7.60 7.60 0 0	5.13					
23	8.4	8.6	8.50 1 1 8.40 8.45 05 05	4.89					
25	8.6	8.1	8.65 0 1 8.70 8.68 03 02	5.19					
26	9.2	9.2	9.20 0 0 9.20 9.20 0 0 0	5.13					
27	9.5	9.5	9.50 0 0 9.55 9.52 02 03	5.17					
28	9.1	9.8	9.75 1 0 F 9.75 2 .	5.36					
29	F.	F.	F	F					
30					bk. F. b.				

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Scale 2 Series 297. Copied

mc 5983 Alt + 16° 88 K-

				Curve.	Magn				Curve.	Magn
1	B.					6.4	6.4	6.40 0.0	0.83	7.23
2	4.4			4.70	9.10	8.4	7.8	8.10 3.3	0.90	9.00
3	4.7			4.80	9.80	8.6	8.5	8.55 0.1	0.96	9.51
4	4.7			4.80	9.80	8.7	9.1	8.90 2.2	0.99	9.89
5	5.1			4.99	10.69	n.s.	n.s.			
6	6.1			5.00	11.10	9.5				
7	6.6			5.00	11.60					
8	7.4			4.99	12.39					
9	7.5			4.98	12.48					
10	8.5			5.04	13.54					
11	8.4			5.02	13.42					
12	8.8	8.6	8.70 1.1	5.06	13.76					
13	9.4	9.3	9.35 0.1	5.20	14.55					
14	9.6	9.6	9.60 0.0	5.23[6]	14.85[6]					
15	9.6	9.6	9.60 0.0	5.26	14.86					
16	9.8	9.8	9.80 0.0	5.32	15.12					
17	n.s.	n.s.	.	,	,					
18	n.s.	n.s.	.	.	,					

Ch. F.C.

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Scale 1

Series 297. Copied

Mc 5984 — 5 Cygni — 20 15 + 57 5 — Alt. + 20

			Curve	Magn		O.C.			Curve	Magn	
a	x	3.6				7.6	7.5	7.55 01	0.85	8.40	
b	x	4.6	4.78	9.38		8.6	8.6	8.60 00	0.96	9.56	
c		4.1	4.80	9.50		8.4	8.3	8.35 01	0.92	9.27	
d		4.6	4.78	9.38		8.6	8.4	8.50 11	0.95	9.45	
e		4.6	4.78	9.38		8.5	8.6	8.55 10	0.96	9.51	
f		5.5	4.98	10.48		9.8			~~0.98~~ 1.12	10.92	
g		4.1	4.80	9.50		8.1			0.97	9.67	
h		6.8	4.99	11.79							
k		6.4	5.00	11.40		m.s.					
l		6.2	5.00	11.20							
m		6.6	5.00	11.60							
m		7.6	4.99	12.59							
o		7.3	4.99	12.29							
p		7.1	4.99	12.69							
p'	g	8.5 8.4	8.45 10	5.03	13.48						
q		8.5 8.5	8.50 00	5.04	13.54						
r		8.1 8.5	8.60 11	5.05	13.65						
s		8.1 8.1	8.70 00	5.06	13.76						
t		9.1 9.6	9.65 10	5.27	14.92						

Corrected

Ref. Sq. for centre of plate.

Copied Bk 38:3

						Ch. F.C.				
1	B.				6.4	6.3	6.35 01	0.83	7.18	7.38
2	3.6				7.4	7.4	7.40 00	0.85	8.25	8.45
3	3.1				7.6	7.5	7.55 01	0.85	8.40	8.60
4	4.4	4.70	9.10		8.5	8.4	8.45 10	0.94	9.39	9.59
5	4.6	4.78	9.38		8.1	8.1	8.10 00	0.97	9.67	9.87
6	4.8	4.84	9.64		9.4			1.05	10.45	10.65

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Saturday September 26, 1914.

Scale 11 Series 297 Cycid BK 38:3

Mc 5984 S Cygni cont. Alt. +20°

			Curve	Magn	O.C.		
7	4.9		4.86	9.76	9.4	1.05	10.45
8	5.6		4.99	10.59	9.8	1.12	10.92
9	5.6		4.99	10.59	f.		F
10	6.2		5.00	11.20			
11	6.5		5.00	11.50			
12	7.1		4.99	12.09			
13	7.8		4.99	12.79			
14	8.6		5.05	13.65			
15	8.6		5.05	13.65			
16	9.2 9.2	9.20	5.16	14.36			
17	9.4 9.4	9.40	5.21	14.61			
18	9.4 9.4	9.40	5.21	14.61			
19	9.4 9.4	9.40	5.22	14.62			
20	9.8 9.7?	9.75	5.30	15.05			

def.?

bh. F.C.

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1914phae.proj.10630

Saturday September 26, 1914.

Scale R

Series 297.

Mc 5985 Alt. -.28 20 30 - 17.5 Eros C.S.

			Curve	Magn	B.C.			Curve	Magn
1	R				6.4	6.4	6.40 00	0.83	7.23
2	3.3				6.7	6.5	6.60 11	0.82	7.42
3	4.1				7.6	7.7	7.65 01	0.86 8.51	7.47
4	4.6		4.78	9.38	8.4	8.4	8.40 00	0.85 9.33	9.25
5	4.7		4.80	9.50	8.7	8.7	8.70 00	0.96	9.66
6	4.7		4.80	9.50	8.7			0.96	9.66
7	5.1		4.92	10.02	8.8	9.1	8.95 21	1.00	9.95
8	5.7		4.99	10.69	· nearly sup..				
9	6.2		5.00	11.20	N.S.				
10	6.7		4.99	11.69					
11	7.4		4.98	12.38					
12	7.6		4.99	12.59					
13	8.1		5.00	13.10					
14	8.4		5.02	13.42					
15	8.7		5.06	13.76					
16	9.4	9.4	9.40 00	5.22	14.62				
17	9.6	9.5	9.55 01	5.25	14.80				
18	9.5	9.6	9.55 10	5.25	14.80				
19	9.8	9.7	9.75 01	5.30	15.05				
poor 20	9.7	9.7	9.70 00	5.29	14.99				

leh. F.6.

Faint stars very poor, comparison with scale difficult.

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Saturday September 26. 1914.

Scale u Series 297.

MC 5986* 20. 40 -20.0 Alt. -.35 Eros C.S.

				Curve	Magn	P.C.			Curve	Magn
1	B.					6.4	6.4	6.40 .00	0.83	7.23
2	3.6					7.1	7.2	7.15 .10	0.84	7.97[9]
3	3.8					7.6	7.7	7.65 .01	0.82[6]	8.47[51]
4	3.8					7.6	7.7	7.65 .01	0.82[6]	8.47[51]
5	4.7			4.80	9.50	9.1	9.4	9.25 .12	1.03	10.28
6	5.2			4.96[5]	10.16[6]	9.9?			1.14	11.04[2]
7	5.3			4.96	10.26					
8	5.5			4.99	10.49					
9	6.4			5.00	11.40					
10	6.8			4.99	11.79					
11	7.5			4.98	12.48					
12	7.4			4.98	12.38					
13	7.7			4.99	12.69					
14	8.3			5.00	13.30					
15	8.4	8.5	8.45 .01	5.03	13.48					
16	8.6	8.6	8.60 .00	5.05	13.65					
very faint. 17	8.8?	9.4?	9.10 .33	5.13	14.23					
18	9.8	9.8	9.80 .00	5.31	15.11					
19	9.9	10.0	9.95 .10	5.36	15.31					
20	n.s.									

Ch. F. B.

*Images on this plate are very poor, especially ~~poor~~ faint stars.

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Scale 2" Series 297 Copied

MC 58981 V Delphini 20 40 +20.0

Att. +.18

				Curve	Magn	B.C.			Curve	Magn
(Seq. off Centre - Images poor)	b	4.4		4.70	9.10	8.2	8.4	8.30 ± .1	0.92	9.22
	a	4.2		4.62	8.82	4th sup. upon star "f" (have)			.	.
	c	4.7		4.80	9.50	8.7	8.7	8.70 .00	0.97	9.67
	d	4.7		4.80	9.50	8.7	8.7	8.70 .00	0.97	9.67
(a - B.C. sup. on f.)	f	5.4?		4.98?	10.38?	9.4	9.3	9.35 .01	1.04	10.39
	e	4.7		4.80	9.50	8.7	8.7	8.70 .00	0.97	9.67
	e'	4.7		4.79 (80)	9.79 (50)	9.4			1.05	10.45
	g	5.0		4.90	9.90	9.6			1.08	10.68
	h	5.6		4.99	10.59					
	k	5.7		4.99	10.69					
	l	5.7		4.99	10.69					
	m	6.3		5.00	11.30					
	n	6.5		5.00	11.30					
	n'	6.7		4.99	11.69					
	h	7.3		4.98	12.28					
	h'	7.2		4.99	12.19					
	h²	7.1		4.99	12.09					
	o	6.8		4.99	11.79					
	q	7.5	7.6	7.55 ± .10	4.98	12.73				
	r	8.5	8.4	8.45 ± .10	5.03	13.48				
	r'	8.8	8.9	8.85 ± .01	5.08	13.93				
	s	9.5	9.4	9.45 ± .10	5.22	14.67				
	t	9.7	9.6	9.65 ± .10	5.27	14.92	bk. 7.6.			
	Var.	8.6		5.04	13.64					
Ref. Seq. for Centre of fr.	1	B.				5.6	5.8	5.70 ± .1	0.88	6.58
	2	3.4				6.6	6.7	6.65 ± .01	0.82	7.47

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Scale U Series 097.

Mc5987 cont.

				Curve.	Magn.	Q.C.			Curve	Magn
3	3.6					7.3	7.3	7.30 00	0.84	8.14
4	3.8					7.5	7.5	7.50 00	0.85	8.35
5	4.4			4.70	9.10	8.4	8.4	8.40 00	0.94	9.34
6	4.4			4.70	9.10	8.5			0.95	9.45
7	4.8			4.84	9.64	8.8			0.98	9.78
8	5.3			4.96	10.26	9.5			1.06	10.56
9	5.6			4.99	10.59	9.8			1.12	10.92
10	6.1			5.00	11.10	m.s.				
11	6.7			4.99	11.69					
12	7.4			4.98	12.38					
13	7.1			4.99	12.69					
14	8.1			5.00	13.10					
15	8.4			5.02	13.42					
16	8.5	8.4	8.45 10	5.03	13.48					
17	8.7	8.6	8.65 10	5.06	13.71					
18	8.8	8.1	8.75 01	5.07	13.82					
19	9.4	9.4	9.40 00	5.21	14.61					
20	9.6	9.5	9.55 01	5.25	14.80					

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Scale II

Series 297.

Mc 5988 Pole.

					Curve	Magn.
5						
6						
8						
9						
10	4.4			4.70	9.10	
11	4.1			4.80	9.50	
12	4.9			4.86	9.76	
13	5.3			4.97	10.27	
14	5.6			4.99	10.59	
15	5.1			4.99	10.69	
16	6.4			5.40	11.40	
17	6.1			4.99	11.69	
18	7.2			4.99	12.19	
19	7.5			4.98	12.48	
20	7.6	7.6	7.60 ± 00	4.99	12.59	
23	8.4	8.4	8.40 ± 00	5.02	13.42	
25	8.1	8.1	8.70 ± 00	5.06	13.76	
26	9.2	9.2	9.20 ± 00	5.76	14.36	
27	9.7	9.4	9.55 ± 12	5.25	14.80	
28	↓	↓	too faint	,	,	
29						
30						

Sc. 4p 28

				Curve	Magn
5.5	5.6	5.55 ± 00			
6.2	6.4	6.30 ± 11		0.84	7.84
7.4	7.4	7.40 ± 00		0.85	8.25
7.8	7.8	7.80 ± 00		0.87	8.67
8.4	8.4	8.40 ± 00		0.94	9.34
8.6				0.96	9.56
8.8				0.99	9.79
9.4				1.05	10.45
9.6				1.09	10.69
9.9				1.14	11.04

11:40.

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Thursday October 1, 1914.

Scale P. Series 26. (For Distance)

11:30	*H 1054	C 11	t² 21 +15°	
	1st eff.		2nd eff.	
	sc.1 sc.2 sc.2		sc.1 sc.2	
5	B.		t.f.	
7	t.f.		t.f.	
8	3.1		5.1 5.2	
9	t.f.		. Inn. winged.	
13	3.2		t.f..	
15	t.f.		t.f.	
17	t.f.		t.f.	
18	4.1		t.f.	
19	4.3		t.f.	
20	t.f.		t.f.	
21	t.f.		. 8.5	
22	t.f.		. 8.6	
23	t.f.		. 8.1	
24	t.f.		9.2	
25	t.f.		9.1	
26	t.f.		9.8	
27	t.f.		10.0	
28	t.f.		n.s.	
29	t.f.			
30	t.f.			
31	f. 7.8	8.1		
32	def? 8.5 n.s.	def.		
33	8.5	8.1		
34	9.3	9.4		
35	9.6	9.4		
36	9.8	9.7		
∝	t.f.		t.f.	

*Comparisons difficult. Plate is poor. Images not true scale.

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Thursday October 1, 1914.

Scale P

Series 26 (For Distance)

H 1055 C 11 21 +15°

	1st eyp.			2nd eyp.	
	RC 1	RC 2	RC 2	RC 1	RC 2
5	3.1			4.6	4.1
7	t.f.			t.f.	
8	3.1			t.f.	
9	2.8			~~4~~ 5 2	5 2
13	3.1			6.2	6.1
15	3.6			6.6?	6.6?
17	5.1			7.	7.5
18	4.9				7.5
19	5.3				7.6
20	t.f.				7.1
21	5.1				7.9
22	5.9	5.9		~~7.9~~	8.3
23	5.6?	5.4			8.6
24	6.4	6.5			8.8
25	6.4	6.5			8.1
26	6.1	6.6			9.5
27	6.6	6.6			9.8
28	6.1	6.1			9.8
29	6.8	6.8			7.
30		7.5			
31		7.8	7.8		
32		7.9	7.8		
33		8.5	8.6		
34		9.1	8.1		
35		9.4	9.3		
36		9.5	9.5		
37 α	→	1.5 t.f.			
β	t.h.				

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1914phae.proj.10630

Thursday October 1, 1914.

Scale P. Series 26 (for Distance)

H 1056 C 11 2h 1 +15°

1st exposure 2nd exp.

	sc.1	sc.2	sc.2	sc.1	sc.2
5	2.8			5.1	
7	t.f.			t.f.	
8	2.8			5.1	4.8
9	2.8			5.4	5.5
13	3.6			6.1	6.2
15	3.2	B.		t.f.	
17	4.5	4.5		7.5	
18	4.5	4.6		7.5	
19	5.1	4.7		7.5	
20	t.f.	t.f.		7.8	
21	5.5	5.3		7.9	
22	5.5	5.6		8.5	
Edge 23		t.f.		m.s.	
24	6.1	6.3		8.1	
25	6.1	6.1		9.2	
26		7.6		9.6	
27		7.8	7.8	m.s.	
28		7.6	7.2		
29		7.7?	t.f.		
30		7.9	7.8		
31		8.1	8.6		
32		9.5?	t.f.		
33		9.5	9.4		
Edge 34		m.s.	t.f.		
" 35		m.s.			
" 36		m.s.			
α	2.1			4.5	
β	2.7			t.f.	

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Thursday October 1, 1914.

Scale P

Series 26 (For Distance)

H 1057 | C 11 | 21 + 15°

	1st eyepc. sc.1	sc.2	sc.3	2nd eyepc. sc.1	sc.2
5	2.1			4.5	
7	t.f.			t.f.	
8	2.1			5.1	4.1
9	3.0			6.4	5.5
13	3.2			6.2	6.4
15	3.1			6.6	6.5
17	4.1			7.	7.4
18	4.5				7.5
19	5.0				7.7
20	t.f.	t.f.			t.f.
21	5.4	6.3			8.2
22	5.5	5.4			8.4
23	6.1	7.1			t.f.
24	6.1	6.2			8.8
25	6.3	6.4			8.1
26	6.6	6.1			8.8
27		1.9			
28		1.4	1.4		
29		1.8	1.1		
30		8.1	8.4		
31		8.5	8.5		
32		9.5	9.4		
33		9.5	9.3		
34		n.s.	n.s.		
35		n.s.	n.s.		
α	2.1			4.4	4.5
β	t.f.			t.f.	

Edge.

edge.

Edge.

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Thursday October 1, 1914.

Scale P

Series 26 (For Distance)

H 1058 C 11 21 +15°

		1st eff.		2nd eff.	
		sc. 1	sc. 2	sc. 1	sc. 2
	5	2.3		4.1	
edge.	7	.		.	
	8	t.f.		t.f.	
	9	t.f.		t.f.	
	13	3.1		6.1	6.1
	15	3.6		6.5	6.6
	17	4.2		7.4	
	18	4.2		7.5	
	19	4.9		7.6	
edge	20	.		.	
	21	5.4		8.3	
	22	5.4	5.2	8.5	
edge	23	t.f.	.	~~t.f.~~ 8.6?	
	24	5.9	5.9	8.8	
	25	6.2	6.1	8.9	
	26	6.6	.	~~8.7~~	
	27		7.3		
	28		7.5		
	29		7.6		
	30		8.2	8.1	
	31		8.7	8.6	
	32		8.7	8.6	
	33		9.6	9.6	
edge.	34		m.s.		
edge.	35		m.s.		
	α	2.5		3.9	
	β	2.9		5.4	

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Thursday October 1, 1914.

Scale P.

H Series 26.

H 1060 C 11 21 +15°

		1st exp.			2nd exp.	
		sc.1	sc.2	sc.2	sc.1	sc.2
	5	2.5			4.3	4.3
	7	t.f.			t.f.	·
Edge t.f.	8	·			·	·
edge t.f.	9	·			·	·
	13	3.0			5.1	5.6
	15	3.6			6.5	6.21
	17	4.3	4.4		6.8	7.3
	18	3.7	4.0		·	7.3
	19	4.4	4.5		·	7.5
t.f. edge of film	20	·			·	7.7
	21	5.2				7.9
	22	5.3				8.1 poor
	23	t.f.				7.9
	24	5.8				8.6
Very poor.	25	5.1?	6.1?			8.9
	26	6.5	6.6			9.8
	27	6.1	7.2			
	28		7.5			
	29		8.2	8.4		
	30		8.5	8.5		
	31		8.1	8.1		
	32		9.2	edge. 9.3		
	33		9.4	9.4		
Edge.	34		·	·		
"	35		m.s.	m.s		
	α	B.				
	β	2.6				

4.5 / ~~5.3~~ 4.6

5.3 5.4

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Thursday October 1, 1914.

Scale P

J4 Series 26

J4 1061 C11. 21 +15°

		1st eyepc.			2nd eyepc.	
		pc.1	pc.2	pc.3	pc.1	pc.2
5	2.1				3.8	B.
7	t.p.				t.p.	
8	t.p.				t.p.	
9	t.p.				t.p.	
~~10~~						
13	2.8				t.p.	
15	3.9				6.5	6.6
17	4.2					7.1
18	4.1	4.1				7.8
19	4.2	4.4				7.8
Edge. 20	n.s.					
21	5.3	5.2				8.1
22	5.4	5.3				8.1
23	t.p.					8.3
24	6.1	6.2				8.8
25	6.3	6.2				9.1
26	6.8	6.9				9.1
27		7.2				n.s.
28		7.6	7.5			
29		7.6	7.6			
30		8.2	8.3			
31		8.7	8.6			
32		8.4	8.4			
33		9.4	9.4			
34		9.1	9.1			
35		~~7.~~	~~7.~~			
α	2.5				3.8	
β	3.2				5.5	

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Thursday October 1, 1914.

Scale P

H Series 26.

	Jf 1062	C11	21 + 15⁻
	1st eff.		2nd eff.
	sc.1 sc.2 sc.2		sc.1 sc.2
5	t.f.		t.f.
7	t.f.		t.f.
8	3.2l		fairly sup.
9	t.f.		t.f.
13	3.3		6.2l 5.8
15	t.f.		t.f.
17	t.f.		~~8.5?~~ ~~8.5?~~ poor
18	4.5		7.3
19	4.9		7.6
20	t.f.		7.8
21	5.5		8.2l
22l	5.5		8.3
23	5.4 5.4		8.1
24	6.2l 6.2l		8.1
25	6.4 6.3		9.0
26	6.6 6.6		9.8
27	~~6.9~~ 6.4 6.4		
28	6.9 ~~7.1~~ 7.1		
29	6.9 ~~7.1~~ 7.1		
30	7.5		
31	7.8		
32	8.1 7.8		
33	8.6 8.6		
34	9.1 9.1		
35	9.2 9.1		
36	9.5 9.6		
α	t.f.		t.f.
37	→ 5.		
β	Hhpl.		

2:40

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Friday October 9, 1914.

f

H Series 26.

10:35 Measures of Distances of Stars in H.S. Region C11 from center of fd.

F	H 1054.	H 1055	H 1056 (Glass side up.)	H 1057.
5	+30 1/2 r	17 r	-13 r	-14 r
7	+42	+33 l	+30 l	+30 l
8	-7 1/2 r	-15 l	-28 l	-31 l
9	-27 1/2 r	-26 r	-32 r	-28
13	+13 1/2 r	-5	-18 l	-21 l
15	+39 r	+25	+17 l	+16 l
17	+24 r	+8 r	-7 l	-10 l
18	+15 1/2 r	-4 r	-16 l	-19 l
19	+13 1/2 r	-5 l	-19 l	-21 l
20	+25	+18 l	23 l	25 l
21	+17 1/2 r	-3 r	-14 l	-17 l
22	+18 r	+6 r	-17 l	-15 l
23	+16 l	21 l	. (edge)	-36 l
24	+15 1/2 r	-3 l	-16 l	-19 l
25	+16 r	+6 l	-17 l	-20 l
26	+16 1/2 r	+3 l	-15 l	-18 l
27	+14 l	17 l	-29 l	-32 l
28	+16	+17 1/2 l	-21 l	-24 l
29	+16	+15 l	-25 1/2 ~~-23 1/2~~	-26 l
30	+16	+13 l	-23 l	-26 l
31	+10 l	-16 l	-28 l	-31 l
32	+15 l	16 l	-27 l	-30 l
33	+11 l	15 l	-28 l	-31 l
34	+17 l	17 l	.	.
35	+14 l	16 l	.	.
36	+14 l	+18 l	.	.
α	+43 r	29 r	-19 r	-17 r
β	off pl.	42 r	+29 r	+26 r

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Friday October 9, 1914.

H Series 26. (Glass side up)

Measures of Distance of stars from Centre of plate.

	H 1058	H 1060	H 1062	H 1062
5	-20 l	-17	-20	+32 r
7	·	+31 l	+33 r	+45
8	-42 l	-36 l	-40 l	7 r
9	-41 l	-38	-40 l	-27 r
13	-32 l	-26 l	-30 l	+15 r
15	+20 l	+16 l	+18 r	+41 r
17	-21 l	-15 l	-20 r	+26 r
18	-30 l	-24 l	-28 l	+15 r
19	-33 l	-27 l	-31 l	+15 r
20	·	28 l	·	+27
21	-28 l	-23 l	-27 l	+18 r
22	-28 l	-21 l	-25 l	+20 r
23	-47 l	-40 l	-45 l	+18 l
24	-31 l	-25 l	-29 l	+16 r
25	-31 l	-25 l	-25 l	+18 r
26	-30 l	-24 l	-27 l	+18 r
27	-43 l	-37 l	-41 l	+15 l
28	-35 l	-29 l	-33 l	+19
29	-38 l	-32 l	-36 l	+18
30	-37 l	-31 l	-35 l	+18
31	-43 l	-36 l	-41 l	+12 l
32	-41 l	-35 l	~~-40 b~~ -39 b ~~47 b~~	+17 l
33	-43 l	-26 l	-40 l	+13 l
34	·	·	-41 l	+11 l
35	·	·	-40 l	+16 l
36				
α	-15 r	-16 r	-16 r	+44 r
β	16 r	22 r	19 r	vol fl.

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Saturday October 10, 1914. (see also Bk 8:144.)

Scale P

H Series 18.

11-	)+ 985			Pole.	Wire Screen.
					Obj.-Red.
	sc.1	sc 2	sc 2	Mean	Diff.
14	5.2	4.9	4.8	4.85 ±.0	5.80
15	6.1	5.8		5.8 ±.1	5.28
19	6.4	6.1	6.6	6.35 ±.2	6.07
20	6.6	6.3	6.6	6.45 ±.2	6.28
22	6.8	6.5	6.7	6.60 ±.1	6.59
23		7.2		7.2 ± .0	6.14
24		7.4		7.4 ± .0	6.24
25		7.5		7.5 ± .0	6.37
26		7.9		7.9 ± .0	6.43
27		8.4		8.4 ± .0	6.29
28		~~8.8~~ 8.6	8.7	8.65 ±.1	6.46
29		~~8.8~~ 8.8	9.3	9.05 ±.3	6.61
30		9.5	9.6	9.55 ±.0	6.49
31		9.8	~~F~~	9.8 ± F	6.42
32		~~F~~		F	
7N	4.5	4.2	4.5	4.35 ±.1	6.35
11N	6.6	6.3	6.6	6.45 ±.2	6.52
12N		7.5		7.5 ± .0	5.98
5S	5.1	4.8	4.7	4.75 ±.1	6.06
7S	6.3	6.0	6.4	6.20 ±.2	6.25
8S		7.9		7.9 ± .0	6.30
9S		8.2		8.2 ± .0	6.27
10S		8.5		8.5 ± .0	6.52
11S		8.7		8.7 ± .0	6.35
12S		8.7	8.7	8.70 ±.0	6.41
13S		8.9	8.8	8.85 ±.0	6.38

not to be plotted

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Saturday October 10, 1914.

Scale P. H Series 18

H 9.85 cont.

	pc.1	pc.2	pc.2	mean	Diff.
14a		9.5	9.3	9.40 ±	6.35
15a		†		.	.
16a		n.s.		.	.
f	6.6	6.3	6.7	6.50 ±	2
g		9.2		9.2 ±	.
h		7.8		7.8 ±	.
~~k~~				.	
l		7.4		7.4 ±	.
m		7.6		7.6 ±	.
o		8.1		8.1 ±	.
p		9.5		9.5 ±	.
q		8.3	8.4	8.35 ±	0
r		8.8	8.9	8.85 ±	0
t		8.6	8.6	8.60 ±	0
w		9.8	9.8	9.80 ±	0
y		9.4	9.3	9.35 ±	0

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Saturday October 10, 1914

Scale P

H Series 18.

H 986 Pole without wire screen.

	sc.1	sc.2	sc.3	mean	Ptg.-Red. Diff.
14	4.3 4.0 B.			4.0 ± .	6.65
15	4.6 4.3 t.f.			4.3 ± .	6.78
19	5.8 5.5 5.9			5.70 ± 2	6.72
20	6.1 5.8 6.2			6.00 ± 2	6.73
22	6.5 6.2 6.4			6.30 ± 1	6.89
23	6.5 6.2 6.4			6.30 ± 1	7.04
24	6.7 6.4 6.5			6.45 ± 1	7.19
25	6.7 6.4 6.7			6.55 ± 1	7.32
26	7.4			7.4 ± .	6.93
27	7.6			7.6 ± .	7.09
28	7.9			7.9 ± .	7.21
29	8.5			8.5 ± .	7.16
30	8.8	8.7		8.75 ± 1	7.29
31	8.7	8.7		8.70 ± 0	7.52
32	9.4	9.3		9.35 ± 1	7.27
33	9.6	9.6		9.60 ± 0	7.36
34	9.7	9.7		9.70 ± 0	7.55
35					
7 N	4.4 4.1 4.1			4.10 ± 0	6.60
11 N	6.2 5.9 6.3			6.10 ± 2	6.87
12 N	6.6 6.3 6.6			6.45 ± 2	7.03
5 R	4.5 4.2 4.2			4.20 ± 0	6.61
7 R	5.7 5.4 5.7			5.55 ± 1	6.90
8 R	7.2			7.2 ± .	7.00
9 R	7.6			7.6 ± .	6.87
10 R	7.8			7.8 ± .	7.22
11 R	7.8			7.8 ± .	7.17

not to be plotted

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Saturday October 18, 1914.

Scale P H Series 18.

H 986 cont.

	RC.1	RC.2	RC.2	Mean	Diff.
12 P		7.9		7.9 ± a	7.21
13 P		8.1		8.1 ± a	7.13
14 P		8.7		8.7 ± a	7.05
15 P		9.1		9.1 ± a	7.32
16 P		9.3		9.3 ± a	7.42
17 P		9.5		9.5 ± a	7.61
18 P		9.8		9.8 ± a	8.11
}	6.1	5.8	5.9	5.85 ± .01	
g	6.7	6.4	6.7	6.55 ± .21	
h		7.5		7.5 ± a	
l	6.4	6.1	6.5	6.30 ± .22	
m	6.7	6.4	6.7	6.55 ± .21	
o		7.5		7.5 ± a	
p		8.6		8.6 ± a	
q		7.5	7.4	7.45 ± .10	
r		7.8	8.2	8.00 ± .22	
t		7.6	7.8	7.70 ± .11	
w		8.7	8.7	8.70 ± .00	
y		8.4	8.4	8.40 ± .00	

A wrs. unit

12 -

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Monday October 19, 1914.

Scale U

Series 313.

12 — MC 6173 Pole.

				MC 6178 ϕ.58	Mean	Diff
5						
6						
8						
9						
10	5.2			4.9	5.05	2 1 3.97
11	5.5			5.2	5.35	1 2 4.20
12	5.7			5.5	5.60	1 1 4.26
13	6.3			5.8	6.05	3 2 4.25
14	6.4			6.3	6.35	0 1 4.30
15	6.7			6.5	6.60	1 1 4.48
16	7.1			6.6	6.85	3 2 4.55
17	7.3			6.8	7.05	3 2 4.58
18	7.6			7.4	7.50	1 1 4.56
19	7.8			7.6	7.70	1 1 4.72
20	8.3			7.8	8.05	3 2 4.68
23	8.6	8.6	8.60	0 0 8.4	8.50	10 10 4.84
25	8.8	8.8	8.80	0 0 8.80	8.80	00 00 5.07
26	9.2	9.1	9.15	0 1 9.20	9.18	03 02 5.15
27	9.5	9.3	9.40	1 1 9.45	9.42	02 03 5.27
28	9.6	9.4	9.50	1 1 9.80	9.65	15 15 5.46
29	t.p.			10.05	10.05	1 2 5.61
30	n.s.					
31						

			MC 6178 ϕ.58	Mean	Diff
6.2	6.1	6.15	0 1 5.80	5.98	17 18 0.51
6.7	6.6	6.65	1 0 6.35	6.50	15 15 0.61
7.6	7.6	7.60	0 0 7.40	7.50	1 0 1 0 0.73
8.1	8.1	8.10	0 0 8.10	8.10	00 00 0.73
8.1	8.3	8.20	1 1 8.30	8.25	05 05 0.77
8.6			8.6	8.60	0 0 0.95
8.7			8.7	8.70	0 0 1.16
9.2			9.4	9.30	1 1 1.00
9.4			9.7	9.55	2 1 1.10
9.8			9.9	9.85	0 1 1.23
ϕ.				F	

		6178	6178		6173	6178
Slow	5-9			p.c.	42-0 4 +.10	0-43 4 -0.11
	10-14	70-0 5 +14	0-70 5 -.14		0-35 5 -.07	25-0 5 +.05
	15-20	120-0 6 +.20	0-90 6 -.15		0 1 .00	+100 1 .10
	~~21-27~~ 21 27	10-5 4 +.01	5-10 4 -01			
	28-	-15 1	+15 1			

leh. F.b.

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Monday October 19, 1914

Scale U

Series 313. Isolated

Mc 6174 C9. 17 +15° Alt. Cor. +11

		Curve	Magn.					B.C.			Curve	Magn.
1	3.1							6.4	6.5	6.45 0 1	0.60	7.05
2	3.1							6.6	6.6	6.60 0 0	0.62	7.22
3	3.5							6.3	6.5	6.40 1 1	0.59	6.99
3a	3.6							6.7	6.7	6.70 0 0	0.63	7.33
4	3.7							6.7	6.7	6.70 0 0	0.63	7.33
5	4.3	4.1	4.20	1	1	3.94	8.14 E	7.3			0.70	8.00
6	4.1	4.3	4.20	1	1	3.94	8.14 E	7.4			0.72	8.12
6a	4.6	4.5	4.55	0	1	4.03	8.58 E	7.7			0.75	8.45
7	4.5	4.6	4.55	1	0	4.03	8.58 E	8.1			0.82	8.92
8	4.9		4.10			9.00	E	8.6			0.93	9.53
8a	5.1		4.15			9.25		8.8			0.95	9.75
9	5.5		4.23			9.73		9.2			1.05	10.25
10	5.8		4.29			10.09		9.6			1.15	10.75
11	5.6		4.26			9.86		9.4			1.11	10.51
12	5.7		4.27			9.97		9.5			1.13	10.63
13	5.8		4.29			10.09		9.8			1.22	11.02
14	6.1		4.35			10.45		too close to bright star.				
15	6.5		4.43			10.93		F.				
16	7.0		4.53			11.53		m.s.				
17	7.1		4.55			11.65						
18	7.6		4.66			12.26						
19	7.5		4.64			12.14						
20	7.8		4.71			12.51						
21	8.2		4.80			13.00						
22	8.5		4.92			13.42						
23	8.7		4.98			13.68						
24	8.7		4.98			13.68		Ch. F.C.				

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Monday October 19, 1914.

Scale U Series 313.

Mc 6174 C9. cont. Att. Cor. +11

					Curve.	Magn.
25	9.0	9.3	9.15	±.1	5.20	14.35
26	9.1	9.2	9.15	±.0	5.20	14.35
27	9.3	9.4	9.35	±.0	5.29	14.64
28	9.7	9.8	9.75	±.0	5.48	15.23
29	9.8	9.8	9.80	.00	5.50	15.30
30	F.		.	.	.	F

Ch. F. C.

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Monday October 19, 1914.

Scale U Series 313. Ecliptic

Mc6175 B7 17 20 +45°.0 —

Alt. Corr. +20

			Curve	Magn	P.C.			Curve	Magn
1	R.				5.1	5.9	5.80 i i	052	6.32 E
2	3.0				6.2	6.3	6.25 0 i	057	6.82
3	3.5				5.9	6.4	6.15 3 2	056	6.71
4	3.6				6.1	6.8	675 i 0	063	7.38
5	3.7				6.9	6.8	685 i 0	065	7.50
6	3.7				7.3			070	8.00
7	3.6				7.2			069	7.89
8	3.6				6.8			064	7.44
9	4.1		393	8.03 E	7.4			072	812
10	3.9				7.4			072	812
11	4.4		398	8.38 E	7.7			075	845
12	4.6		404	8.64 E	8.4			088	928
13	4.6		404	8.64 E	8.5			090	940
14	4.7		406	8.76 E	8.4			088	928
15	4.9		410	900 E	8.7			094	964
16	5.2		417	937	8.8			096	976
17	5.6		426	986	9.5			113	1063
18	6.2	6.2 6.20 0 0	437	1057	9.9	10.0	995 i 0	125	11210
19	5.9	6.0 595 i 0	432	1027	9.7			118	1088
20	6.4		441	1081	m.s.				
21	6.6		445	1105	Remeas. Apr. 20, 15.				
22	6.5	6.4 645 i 0	442	1087	P.C. dec. 2				
23	6.7		446	1116	16 8.8				
24	6.8		448	1128	17 9.5				
25	7.6		466	1226	19 9.8				
26	1.6		466	1226	P.C. of 17 evidently correct.				
					Leh. F.C.				

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Monday October 19, 1914.

Scale K Spies 313.

Mc 6-175 Q 7 cont.

Alt. Crr. +20

				Curve.	Magn.
27	7.6			4.63[6]	12.25[6]
28	7.7			4.68	12.38
28a	8.1			4.78	12.88
28b	8.5			4.92	13.42
28c	8.6			4.95	13.55
29	8.7			4.98	13.68
30	8.7	8.7	8.70 00	4.98	13.68
31	8.9	8.9	8.90 00	5.06	13.96
32	9.2	9.2	9.20 00	5.21	14.41
33	9.6	9.6	9.60 00	5.39	14.99
34	9.6	9.6	9.60 00	5.39	14.99
35	7.	7	.	.	7
36	m.s.			.	.

Ch. F.b.

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Monday October 19, 1914.

Scale U

Series 313. Cofied

	mc 6176			109 K.					
				Curve.	Magn	P.C.			Curve	Magn
1	4.5			4.02	8.52 ℓ	7.6	7.6	7.60 .00	0.75	8.35
2	5.0			4.14	9.14.	8.6	8.6	8.60 .00	0.92	9.52
3	5 8.8			4.28	10.08	9.6	9.7	9.65 .01	1.16	10.81
4	6 9.2			4.37	10.57	9.7	9.7	9.70 .00	1.18	10.88
5	6.7			4.47	11.17	m.s.	m.s.	.	.	.
6	6.9			4.50	11.40					
7	7.4			4.62	12.12					
8	7.4			4.62	12.12					
9	~~4.4~~ 7.8			4.71	12.51					
10	~~5.1~~ 8.3			4.83	13.13					
11	8.5			4.91	13.41					
12	8.6			4.96	13.56					
13	8.1	8.8	8.75 .10	5.01	13.76					
14	8.8	8.8	8.80 .00	5.03	13.83					
15	9.1	9.2	9.15 .10	5.19	14.34					
16	9.4	9.4	9.40 .00	5.31	14.71					
17	10.0	9.8	9.90 .11	5.55	15.45					

Alt. Corr. -01

Eh. F.6.

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Monday October 19, 1914.

Scale U Series 313. Copied

Mc 6177 110 K-

Att. Corr. +04

					Curve	Magn	P.C.				Curve	Magn
1	5.5				4.23	9.73	9.1	9.2	9.15	10	1.04	10.19
2	5.5				4.23	9.73	9.4	9.2	9.30	11	1.07	10.37
3	6.3				4.38	10.68	10.1	F.	10.10	a.	1.30	11.40
4	6.5				4.43	10.93	F.					
5	6.8				4.48	11.28						
6	7.5				4.64	12.14						
7	7.7				4.68	12.38						
8	8.4				4.87	13.27						
9	8.6				4.95	13.55						
10	8.7				4.98	13.68						
11	8.8				5.03	13.83						
12	9.3	9.3	9.30	00	5.25	14.55						
13	9.4	9.2	9.30	11	5.25	14.55						
14	9.3	9.4	9.35	10	5.29	14.64						
15	9.8	9.8	9.80	00	5.50	15.30						
16	9.7	9.8	9.75	10	5.48	15.23						

Ch. F. C.

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1914phae.proj.10630

Monday October 19, 1914

Scale R Series 313.

	mc 6178	Pole.		
			Oc.	
5			5.8 5.8	5.80 i o
6			6.3 6.4	6.35 1 o
8			7.4 7.4	7.40 o o
9			8.1 8.1	8.10 o o
10	4.9		8.4 8.2	8.30 1 1
11	5.2		8.6	
12	5.5		8.7	
13	5.6		9.4	
14	6.3		9.7	
15	6.5		9.9	
16	6.6			
17	6.8			
18	8.4			
19	7.6			
20	7.8			
23	8.4			
25	8.8	8.8	8.80 o o	
26	9.2	9.2	9.20 o o	
27	9.5	9.4	9.45 1 o	
28	9.8	9.8	9.80 o o	
faint 29	10.0?	10.1	10.05 0 1	Neb. P. 6.
30	n.s.	n.s.		

See p. 51

1:25

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1914phae.proj.10630

Tuesday October 20, 1914.

Scale 11 — Series 313.

9:~~15~~ — Mc 6178 — Pole -

			Mc 6184 fr 69	Mean	Diff.
5					
6					
8					
9					
10	4.7		4.9	4.80 ± .1	4.22
11	5.3		5.4	5.35 ± .0	4.20
12	5.5		5.7	5.60 ± .1	4.26
13	5.8		6.2	6.00 ± .2	4.30
14	6.3		6.5	6.40 ± .1	4.25
15	6.5		6.7	6.60 ± .1	4.48
16	6.1		7.2	6.95 ± .2	4.45
17	7.2		7.4	7.30 ± .1	4.33
18	7.4		7.6	7.50 ± .1	4.56
19	7.6		7.7	7.65 ± .1	4.77
20	7.8		8.2	8.00 ± .2	4.73
23	8.4		8.6	8.50 ± .1	4.84
25	8.8	8.8	8.80 ± .0	8.65	8.72 .08 .07 5.15
26	9.2	9.2	9.20 ± .0	9.10	9.15 .05 .05 5.18
27	9.5	9.5	9.50 ± .0	9.35	9.42 .08 .07 5.27
28	9.8	9.7	9.75 ± .1	9.60	9.68 .07 .08 5.43
29	9.9	10.0	9.95 ± .0	9.90	9.92 .03 .02 5.74
30	f.	f.	.	.	.
31	n.s.	n.s.	.	.	.

G.C.			Mc 6184 fr 69	Mean	Diff
5.7	5.8	5.75 ± .0	5.90	5.82 .07 .08	0.67
6.3	6.4	6.35 ± .0	7.20	6.78 .43 .42	0.33
7.4	7.5	7.45 ± .01	7.55	7.50 .05 .05	0.73
7.9	8.1	8.00 ± .1	8.10	8.05 .05 .05	0.78
8.2	8.3	8.25 ± .01	8.20	8.22 .03 .02	0.80
8.6	8.7	8.65 ± .01	8.6	8.62 .03 .02	0.93
8.7	8.8	8.75 ± .0	8.7	8.72 .03 .02	1.14
9.4			9.1	9.25 ± .2	1.05
9.6			dif	9.60 ± .	1.05
9.8			9.7	9.75 ± .0	1.33
10.2?			9.8	10.00 ± .2	1.40

	6178	6184
Stars 5-9		
10-14	0-60 5 -.12	50-0 5 +.10
15-20	0-80 6 -.13	80-0 6 +.13
23-27	21-10 4 +.03	10-19 4 -.05
28-	10-0 2 +.05	0-10 2 -.05

p.e	6178	6184
	0-60 4 -.15	60-0 4 +.15
	29-0 4 +.07	0-16 4 +.06
	20-0 2 +.10	0-30 2 -.15

Ch. F. C.

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1914phae.proj.10630

Tuesday October 20, 1914.

Scale U

Series 313. Leopold

mc 6179 D10 19 - 15°

Att. Corr. 23

				Curve	Magn					Curve	Magn
1	3.5						6.6	6.5	6.55	0.53	7.08
2	3.6						6.5	6.4	6.45	0.52	6.97
3	3.7						6.8	6.8	6.80	0.56	7.36
4	3.6						6.8	6.9	6.85	0.56	7.41
5	3.9						7.3	7.4	7.35	0.63	7.98
6	4.0						7.4			0.65	8.05
7	4.3			3.95	4.18	8.48 E	7.5			0.66	8.16
8	4.5			4.02	4.19	8.69 E	7.7			0.69	8.39
9	4.6	4.6	4.60	4.05	4.20	8.80 E	7.8			0.73	8.53
10	4.2	4.2	4.20	3.95	4.17	8.37 E	7.7			0.69	8.39
11	4.6			4.04	4.20	8.80 E	8.2			0.83	9.03
12	4.6			4.04	4.20	8.80 E	8.3			0.85	9.15
13	4.5			4.02	4.19	8.69 E	8.3			0.85	9.15
14	4.7			4.06	4.21	8.91 E	8.1			0.96	9.66
15	6.0	6.1	6.05	4.33	4.32	10.37	9.6			1.25	10.85
16	5.1	5.4	5.25	4.18	4.32 (25)	9.58 (0)	9.1			1.08	10.18
17	5.1	5.7	5.70	4.26	4.28	9.96	9.6			1.25	10.85
18	5.5	5.5	5.50	4.24	4.26	9.76	9.5			1.22	10.72
19	6.1			4.34	4.33	10.43	n.s.				
20	6.6				4.38	10.98	?				
21	6.1				4.33	10.43	9.7?			1.28	10.98?
22	6.5				4.36	10.86	n.s.				
23	6.3				4.34	10.64					
24	6.5				4.36	10.86	~~to P~~				
25	7.2	7.2	7.20		4.51	11.71					
26	~~6.7~~										

see next page.

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1914phae.proj.10630

Tuesday October 20, 1914.

Scale U Series 313-

MC 6179 N 10 Cont.

Att. Cor. -23

					Curve	Magn
26	6.7	6.7	6.70	.00	4.40	11.10
27	6.7				4.40	11.10
28	7.4				4.56	11.96
29	7.5				4.57	12.07
30	7.6				4.62	12.22
31	7.7				4.65	12.35
32	8.1				4.78	12.86
33	8.4				4.89	13.29
34	8.5				4.93	13.43
35	8.7				4.99	13.69
36	8.7				4.99	13.69
37	9.4				5.30	14.70
38	9.5	9.4	9.45	.10	5.32	14.77
39	9.7	9.6	9.65	.10	5.43	15.08
40	9.6	9.5	9.55	.01	5.40	14.95
2	8.7	8.7	8.70	.00	5.00	13.70
41	9.8	9.7	9.75	.01	5.52	15.27
42	9.8	9.8	9.80	.00	5.56	15.36
43	F.	m.s.				

ch. & b.

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1914phae.proj.10630

Tuesday October 20, 1914–

Scale A

Equipment 313 leopard

MC 6180 Nova Aquilae No. 1 19 20 0.0

N.H. Cors. +04

			Curve	Magn	G.C.			Curve	Magn
a	3.4				6.1	6.3	6.20 11	0.49	6.69
b	4.1		4.22	8.92 E	7.1	7.1	7.70 00	0.70	8.40
c	4.6		4.20	8.80 E	7.5	7.6	7.55 10	0.66	8.21
d	4.6		4.20	8.80 E	7.1	7.6	7.65 10	0.68	8.33
e	4.1		4.22	8.92 E	7.8	7.8	7.80 00	0.73	8.53
f	5.5		4.26	9.76	8.6			0.94	9.54
g	5.6		4.27	9.87	9.3			1.15	10.45
h	5.1		4.28	9.98	9.4			1.18	10.58
k	6.5		4.36	10.86	9.9			1.35	11.25
l	6.4		4.35	10.75	9.8			1.33 ?	11.13
m	6.6		4.38	10.98					
n	6.8		4.43	11.23					
o	6.8		4.43	11.23					
p	7.2		4.51	11.71					
q	7.1		4.65	12.35					
r	7.9		4.72	12.62					
s	8.2		4.82	13.02					
t	8.5	8.4	8.45 10	4.90	13.35				
u	8.6	8.5	8.55 01	4.95	13.50				
w	8.8	8.1	8.75 01	5.02	13.77				
x	9.4	~~9.6~~ 9.5	9.45 01	5.32	14.77				
Nova n.s.		~~9.1~~	.	.	.				
y	9.1	9.6	9.65 10	5.43	15.08				

(see also next page)

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Tuesday October 20, 1914.

Scale 11 Series 318.

Mc 6180. Nova Aquilae No. 1 cont.

alt. Gr. +04

Ref. Seq. for Centre of fld.					Curve	Magn	P.C.			Curve	Magn
	1	3.6					6.7	6.8	6.75 ± 0	0.55	7.30
	2	4.7			4.21	8.91 E	7.8	7.8	7.80 00	0.73	8.53
	3	4.7			4.21	8.91 E	8.2	8.2	8.20 00	0.83	9.03
	4	4.8			4.22	9.02	8.6	8.6	8.60 00	0.95	9.55
	5	5.3			4.25	9.55	8.7	8.7	8.70 00	0.96	9.66
	6	5.6			4.27	9.87	8.9			1.03	9.93
	7	6.4			4.36	10.76	9.4			1.16	10.58
	8	6.4			4.36	10.76	9.7			1.28	10.98 / 11.08
	9	6.7			4.40	11.10	?			.	F
	10	7.4			4.56	11.96	m.s.			.	.
	11	7.5			4.58	12.08					
	12	7.6			4.63	12.23					
	13	8.4			4.89	13.29					
	14	8.4			4.89	13.29					
	15	8.5	8.4	8.45 10	4.90	13.35					
	16	8.6	8.6	8.60 00	4.97	13.57					
	17	8.7	8.7	8.70 00	5.00	13.70					
	18	8.7	8.7	8.70 00	5.00	13.70					
	19	9.1	9.1	9.10 00	5.16	14.26					
	20	9.9	9.7	9.80 ± 1	5.56	15.36					

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Tuesday October 20, 1914.

Scale II

Series 313. Exposed

mcb 181

1111 K-

Alt. Corr. +.04

				Curve	Magn					Curve	Magn
						P.C.					
1	3.5					6.5	6.3	6.40	11	0.52	6.92
2	4.6			4.20	8.80 E	7.7	7.7	7.70	00	0.70	8.40
3	5.3			4.25	9.55	8.6	8.7	8.65	01	0.94	9.59
4	5.7			4.28	9.98	9.1	9.2	9.15	10	1.11	10.26
5	5.8			4.29	10.09	9.5	9.5	9.50	00	1.22	10.72
6	6.4			4.35	10.75	9.6				1.25	10.85
7	6.3			4.34	10.64	9.5				1.22	10.72
8	6.8			4.44	11.24	10.0				1.41	11.41
9	7.4			4.56	11.96	n.s.					
10	7.6			4.62	12.22						
11	8.4	8.2	8.30	11	4.84	13.14					
12	8.6	8.6	8.60	00	4.97	13.57					
13	8.4	8.4	8.40	00	4.89	13.29					
14	8.6	8.6	8.60	00	4.97	13.57					
15	8.7	8.7	8.70	00	5.00	13.70					
16	9.4	9.3	9.35	01	5.28	14.63					
17	9.6	9.7	9.65	01	5.43	15.08					

leh. F.6.

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1914phae.proj.10630

Tuesday October 20, 1914.

Scarlet Series 313.

Mc 6182 1950 - 17.5.

Alt. Cor. -29

				Curve	Magn	P.C.			Curve	Magn
1	4.1			4.22	8.92 E	7.5	7.5	7.60 00	0.66	8.16
2	4.8			4.23	9.03	8.1	7.9	8.00 11	0.78	8.78
3	5.4			4.26	9.66	8.7	8.6	8.65 10	0.96	9.61
4	5.5			4.26	9.76	8.6	8.6	8.60 00	0.95	9.55
5	5.7			4.28	9.98	9.1	9.2	9.15 10	1.11	10.26
6	6.6			4.38	10.98	9.9			1.35	11.25
7	6.8			4.43	11.23					
8	6.7			4.40	11.10					
9	7.2			4.52	11.72					
10	7.4			4.56	11.96					
11	7.6			4.62	12.22					
12	7.8			4.69	12.49					
13	8.3			4.85	13.15					
14	8.4			4.89	13.29					
15	8.6			4.87	13.47					
16	8.7	8.7	8.70 00	5.00	13.70					
17	9.2	9.2	9.20 00	5.20	14.40					
18	9.4	9.3	9.35 01	5.29	14.64					
19	9.5	9.4	9.45 10	5.32	14.77					
20	9.6	9.5	9.55 01	5.40	14.95					

ch. F.L.

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Tuesday/October 20, 1914.

Scale II

Series 313 - Cepheid

Mc 6183 A3

		Curve	Magn	P.C.			Curve	Magn
Extreme Edge. P.C. off field.	1							
	2	3.5		6.5	6.6	6.55 ± 0	0.53	7.08
	3	4.0		6.7	6.8	6.75 ± 0	0.56	7.31
	4	3.9		6.8	6.8	6.80 00	0.56	7.36
	5	3.8		6.8	6.8	6.80 00	0.56	7.36
	6	4.1	4.22	8.92 E	7.6	7.6	7.60 00	0.68	8.28
	7	4.5	4.20	8.70 E	7.5	7.6	7.55 ± 0	0.67	8.22
	8	4.1	4.22	8.92 E	7.8			0.73	8.53
	9	4.8	4.23	9.03	7.8			0.73	8.53
	10	4.6	4.21	8.81 E	8.1			0.81	8.91
	11	4.9	4.23	9.13	8.1			0.81	8.91
	12	5.3	4.25	9.55	8.6			0.95	9.55
	13	5.4	4.26	9.66	8.5			0.92	9.42
	14	5.5	4.26	9.76	8.8			1.00 0.96	9.80
	15	5.6	4.27	9.87	8.7			0.96	9.66
	16	5.9	4.29	10.19	9.4			1.18	10.58
	17	6.1	4.33	10.43	9.4			1.16	10.58
	18	6.4	4.35	10.75	9.8			1.32	11.12
	19	6.4	4.35	10.75	9.7			1.28	10.98
	20	6.5	4.36	10.86	9.9			1.35	11.25
	21	6.8	4.43	11.23	↓			.	↓
	22	6.8	4.43	11.23	m.s.			.	.
	23	7.4	4.56	11.96					
	24	7.6	4.62	12.22					
	25	7.7	4.65	12.35					
	26	7.8	4.68	12.48					

Alt. Cur. 7.14

Cch. F.C.

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Tuesday October 20, 1914-

Scale R Series 313.

Mc 6183 Q 3.

Alt. Cor. +14.

				Curve	Magn
27	8.2	8.3	8.25 01	4.83	13.08
28	8.5	8.5	8.50 00	493	13.43
29	8.4	8.5	8.45 01	4.90	13.35
30	8.6			4.97	13.57
31	8.8			5.04	13.84
32	9.2			5.20	14.40
33	9.1			5.16	14.26
C	7.5			4.58	12.08
34	9.4	9.4	9.40 00	5.31	14.71
35	9.6	9.6	9.60 00	5.42	15.02
36	9.6	9.6	9.60 00	5.42	15.02
37	9.9	9.8	9.85 10	5.60	15.45
38	⁊.	⁊.	.	.	⁊
39		n.s.		.	.

(see also next page.)

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Tuesday October 20, 1914.

Scale K Series 318. Eclipse

Mc 6183 cont. 7 K.

Alt. Bar. 7.4

Seq. Not in Centre of pl.				Curve.	Magn	B.C.				Curve	Magn
	1	4.1		4.22	8.92	7.9	~~8.2~~	7.90	00	0.75	8.65
	2	5.3		4.25	9.55	8.1	8.5	8.60	11	0.95	9.55
	3	5.6		4.27	9.87	8.1	8.9	8.80	11	1.00	9.80
	4	6.1		4.33	10.43	9.7	9.6	9.65	10	1.27	10.92
	5	6.2		4.34	10.54	9.8	9.8	9.80	00	1.32 ?	11.12
	6	6.5		4.35 6	10.85 6	10.0?				1.41 ?	11.41 ?
	7	7.2		4.52	11.72						
	8	7.5		4.58	12.08						
	9	7.6		4.62	12.22						
	10	7.7		4.65	12.35						
	11	8.3		4.85	13.15						
	12	8.5		4.93	13.43						
	13	8.6	8.6	8.60 00	4.97	13.57					
	14	8.7	8.7	8.70 00	5.00	13.70					
	15	9.1	9.1	9.10 00	5.16	14.26					
	16	9.4	9.3	9.35 01	5.29	14.64					
	17		9.7		5.48	15.18					

Remeasures. 20 February 2, 1915.

Star		B.C.
3	5.6	8.1
4	5.8	9.6
5	6.3	10.1

Star no. 4 re examined and ~~do~~ at the present setting, do not think it is fainter than the 6th image on the scale, but I do not consider the ~~1st~~ ~~60~~ measure wrong. The sequence is not in the centre of the plate. Ch. F.C.

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Tuesday, October 20, 1914.

Scale U Series 313

	MC 6184	Pole	
			PC
5			5.9 5.9 5.90 ·0
6			7.2 7.2 7.20 ·0
8			7.5 7.6 7.55 ·0
9			8.1 8.1 8.10 ·0
10	4.9		8.2 8.2 8.20 ·0
11	5.4		8.6
12	5.7		8.7
13	6.2		9.1
14	6.5		df.
15	6.7		9.7
16	7.2		9.8
17	7.4		
18	7.6		
19	7.7		
20	8.2		
23	8.6		
25	8.7	8.6	8.65 ±0
26	9.1	9.1	9.10 ·0
27	9.3	9.4	9.35 ±0
28	9.6	9.6	9.60 ·0
29	9.9	9.9	9.90 ·0
30	F		

bh. 8.6.

Sept 59

11.56
a.D.H.

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Thursday October 22, 1914.

Scale N
2:24

Series 332.

Mc 6399 Pole.

			Mc 6404 Mean Diff p.76			P.C.	Mc 6404 p.76	Mean	Diff
5						partly sup.	5.55	5.55 : 0	0.94
6						5.1 ~~6.8~~	5.56.2	5.95 2 2	1.16
8						6.1 6.8 6.75 1 0	6.2 7.25	7.00 25 25	1.23
9						7.1 7.7 7.70 0 0	7.25 7.65	7.68 02 03	11 0.55
10	4.2		4.4	4.20 1 1	4.72	7.9 7.8 7.85 1 0	7.65 Sup.	7.85 0 :	1.17
11	4.6		4.7	4.65 0 1	4.90	8.6 8.6 8.60 0 0	8.50	8.55 05 05	1.00
12	4.8		4.8	4.80 0 0	5.06	8.1	8.6	8.65 1 0	1.21
13	5.2		5.3	5.25 0 1	5.05	8.8.	9.2	9.00 2 2	1.30
14	5.5		5.8	5.65 1 2	5.00	9.4	9.4	9.40 0 0	1.25
15	5.1		6.0	5.85 1 2	5.23	9.9	n.s.	9.90 0 :	1.18
16	6.1		6.5	6.30 2 2	5.10	~~9.9~~ f.			
17	6.4		6.6	6.50 1 1	5.13				
18	6.1		7.3	7.00 3 3	5.06				
19	7.3		7.4	7.35 1 0	5.07				
20	7.5		7.6 7.75	7.58 08 07	5.15				
23	8.2	8.3	8.25 0 1	8.25	8.25 00 00	5.09			
25	8.6	8.6	8.60 0 0	8.60	8.60 00 00	5.27			
26	9.1	9.1	9.10 0 0	.	9.10 0 :	5.23			
27	9.4	9.3	9.35 0 1	9.10	9.22 13 12	5.47			
28	9.6	9.6	9.60 0 0	9.50	9.55 05 05	5.56			
29	f.	f.	.	F	.		bh. P.C.		
30	n.s.			n.s.					
31									

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1914phae..proj..10630

Thursday, October 22, 1914.

Scale 11 Series 332. Copied

Mc 6400 R 1 Persei 3 12 +45.0°

DOK Alt. Cor. +22

				Curve.	Magn	P.C.			Curve	Magn
double	a					7.6	7.6		1.22	8.82
						8.7	8.7	7.60 00		
						8.7		8.70 00	1.23	9.93
	a'	3.5				6.6	6.6	6.60 00	1.20	7.80
	b	3.7				1.2	1.4	7.30 11	1.22	8.52
	c	4.6		4.88	9.48	8.4	8.5	8.45 01	1.23	9.68
	d	4.9	4.9	4.90 00	4.98	9.2	9.2	9.20 00	1.22	10.42
	e	4.7	4.7	4.70 00	4.92	9.6	8.6	8.60 00	1.23	9.83
	f	4.1			4.92	9.6	8.8		1.23	10.03
	g	5.6	5.6	5.60 00	5.08	10.8	9.1		1.24	10.94
	h	5.2	4.8	5.00 22	5.01	10.01	8.7		1.23	9.93
	k	5.1			5.08	10.78	9.9		1.27	11.14
	l	6.1			5.10	11.20	m.s.			
	m	6.5			5.11	11.61				
	n	6.7			5.11	11.81				
	o	7.3			5.10	12.40				
	p	7.8			5.12	12.92				
	q	8.4			5.18	13.58				
	r	8.6	8.6	8.60 00	5.74 23	13.74 83				
	s	8.7	8.7	8.70 00	5.75 2	13.85 9				
	t	8.8	8.7	8.75 01	5.76 2	+2.94 14.01				
	u	9.1	9.3	9.20 11	5.39	14.59				
	w	9.5	9.6	9.55 10	5.54	15.09				
Indefective part of film	v	5.4			5.06	10.46	9.1		1.22	10.32

Ch. F. C.

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1914phae.proj.10630

Thursday October 22, 1914

Scale U

Series 332. Not copied

Mc 6400 Cont. R J Persei.

Ref. Seq. for Centre of plate.

				Curve	Magn	O.C.			Curve	Magn
1	3.6					6.6	6.7	665 01	1.21	7.85
2	3.7					7.2	7.1	715 01	1.22	8.37
3	3.9					7.6	7.1	765 01	1.22	8.87
4	4.1					7.9	7.1	790 00	1.22	8.92
5	4.6			4.88	9.48	8.5	8.4	845 10	1.23	9.68
6	4.7			4.92	9.62	8.7			1.23	9.93
7	5.1			5.03	10.13	8.8			1.23	10.03
8	5.6			5.08	10.68	9.5			1.23	10.73
9	5.5			5.07	10.57	9.5			1.23	10.73
10	5.8			5.09	10.89	9.9			1.24	11.14
11	6.2			5.11	11.31	?			.	.
12	6.6			5.11	11.71	n.s.			.	.
13	7.1			5.10	12.20					
14	7.5			5.10	12.60					
15	7.7			5.11	12.81					
16	8.4	8.5	845 01	5.19	13.64					
17	8.6	8.6	860 00	5.23	13.83					
18	8.8	8.7	875 01	5.26	14.01					
19	8.9	9.1	900 11	5.33	14.33					
20	9.5	9.6	955 10	5.53	15.08					

Att. bar. 722

Ch. F. b.

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1914phae..proj..10630

Thursday October 22, 1914.

Scale 11 Series 332.

Mc 6401 .3 01 +74.0 For Color Index.

Alt. Cu. +15

				Curve.	Magn.	O.C.			Curve.	Magn.
1	3.6					7.6	7.6	7.60 00	1.22	8.82
2	3.7					7.5	7.6	7.55 10	1.22	8.77
3	3.7					8.3	8.3	8.30 00	1.23	9.53
4	4.6			4.88	9.48	8.6	8.6	8.60 00	1.23	9.83
5	4.6			4.88	9.48	8.6	8.6	8.60 00	1.23	9.83
6	5.4			5.06	10.46	9.1			1.24	10.94
7	5.6			5.08	10.68	9.8			1.24	11.04
8	6.4			5.10	10.50	n.s.			,	,
9	7.2			5.10	12.30					
10	7.6			5.10	12.70					
11	8.3	8.4	8.35 10	5.17	13.52					
12	8.5	8.4	8.45 10	5.19	13.64					
13	8.7	8.6	8.65 10	5.23	13.88					
14	9.3	9.3	9.30 00	5.42	14.72					
15	9.6	9.6	9.60 00	5.55	15.15					

Ch. F. C.

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1914phae.proj.10630

Thursday October 22, 1914.

Scale U

Series 332. Copied

mc 6402 *

95 K-

Alt. Cor. +.06

					G.C.			Curve.	Magn.
1	3.7				1.5	1.4	7.45 10	1.22	8.67
2	3.9				1.6	1.5	7.55 01	1.22	8.77
3	4.6		4.88	9.48	8.6	8.6	8.60 00	1.23	9.83
4	5.5		5.07	10.57	9.8	9.8	9.80 00	1.24	11.04
5	5.6		5.08	10.68	9.9	9.9	9.90 00	1.24	11.14
6	5.9		5.09	10.99	m.s.			.	.
7	6.4		5.10	11.50					
8	6.6		5.10	11.70					
9	6.8	....	5.11	11.91					
10	7.4		5.10	12.50					
11	7.7	8.1	7.83 11 3	5.42				12.95	
12	8.3	8.2	8.25 10	5.16				13.41	
13	8.7	8.7	8.70 00	5.24				13.94	
14	9.7	9.7	9.70 00	5.59				15.29	
15	9.4	9.4	9.40 00	5.46				14.86	

*Images large - not comparable with scale.

Ch. F. C.

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1914phae.proj.10630

Thursday October 22, 1914.

Scale K

Series 332. Copied 23 K.

MC6403

Alt. Cor. +22

				Curve	Magn	P.C.			Curve	Magn
1	B.					5.8	5.1	5.75 0.1	1.12	6.87
2	3.1					6.3	6.3	6.30 0.0	1.19	7.49
3	4.5		4.85	9.35		8.2	8.3	8.25 0.1	1.23	9.48
4	5.5		5.07	10.57		9.4	9.4	9.40 0.0	1.23	10.63
5	5.6		5.08	10.68		9.8	9.9?	9.85 0.1	1.24	11.09?
6	6.1		5.10	11.20			F.		.	F.
7	6.1		5.10	11.80						
8	6.8		5.10	11.90						
9	7.5		5.10	12.60						
10	7.7		5.11	12.81						
11	8.6	8.5	8.55 0.1	5.22	13.77					
12	8.6	8.6	8.60 0.0	5.23	13.83					
13	9.4	9.3	9.35 0.1	5.45	14.80					
14	9.3	9.4	9.35 1.0	5.45	14.80					
15	9.8	9.7	9.75 0.1	?	.					
16	F.	F.	.	.	F.					

Ch. F. C.

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1914phae.proj.10630

Thursday October 22, 1914.

Scale R Series 332.

Mc 6404 Pole.

				P.C.
5				5.5 5.6 5.55 i0
6				6.2
8				8.3 7.2 7.25 two unit
9				7.6 7.7 7.65 0i
10	4.4			sup.
11	4.7			8.4 8.6 8.50 1i
12	4.8			8.6
13	5.3			9.2
14	5.8			9.4
15	6.0			n.s.
16	6.5			
17	6.6			
18	7.3			
19	7.4			
20	7.7	7.6	7.65 i0	
23	8.2	8.3	8.25 0i	
25	8.6	8.6	8.60 00	
26	def?	def?	. .	
27	9.1	9.1	9.10 00	
28	9.4	9.6	9.50 1i	
29	?			Ch. P.C.
30	n.s.			

Grain of film covers plotting dist ft. stars

See p 40

3:40

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Tuesday October 27. 1914.

Scale R

1:10

Mc 6360

Series 329.

Pole.

			Mc 6365 ϕ 82	Mean	Diff.
5					
6					
8					
9					
10	4.6		4.6	4.60 .00	4.42
11	4.8		4.9	4.85 .01	4.70
12	5.1		5.2	5.15 .10	4.71
13	5.6		5.6	5.60 .00	4.70
14	5.8		5.8	5.80 .00	4.85
15	6.1		6.3	6.20 .11	4.88
16	6.6		6.7	6.65 .01	4.75
17	6.8		6.8	6.80 .00	4.83
18	7.4		7.5	7.45 .01	4.61
19	7.6		7.7	7.65 .01	4.77
20	7.1		8.1	7.90 .22	4.83
23	8.4	8.5	8.45 .01	8.60	8.52 07 08 4.82
25	8.1	8.1	8.70 .00	8.70	8.70 00 00 5.17
26	9.4	9.3	9.35 .01	9.25	9.30 05 05 5.03
27	9.6	9.6	9.60 .00	9.50	9.55 05 05 5.14
28	9.1	9.1	9.70 .00	9.80	9.75 05 05 5.36
29	m.s.	m.s.	.	10.10?	10.10 .a 5.56?
30	m.s.		.	.	
31					

	Mc 6365 ϕ 82	Mean	Diff.
P.C.			
5.1 5.6	5.65 .10	6.15	5.65 .a .084
5.9 6.0	5.95 .10	7.40 6.15	6.05 10 10 1.06
sup. sup.	.	7.75 7.40	7.40 .a 0.83
7.9 7.7	7.80 .11	7.90 7.75	7.78 02 03 1.05
8.1 8.2	8.15 .10	8.60 7.90	8.02 13 12 1.00
8.7 8.5	8.60 .11	8.8 8.60	8.60 00 00 0.95
8.7 8.7	8.70 .00	9.4 8.8	8.75 05 05 1.11
9.4		9.5 9.4	9.40 .0 0 0.90
9.5		. 9.5	9.50 .0 0 1.15
pcv.		. .	.

bb. F. 6.

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Tuesday October 27, 1914.

Scale 11 — Series 329 — copied

MC 6361 — 70 K.

				Curve.	Magn.	O.C.			Curve	Magn.
								Alt. Corr. +17		
1	3.1					6.5	6.5	6.50 00	0.97	7.47
2	3.4					6.5	6.7	6.60 11	0.97	7.57
3	4.1			4.60	9.30	8.4	8.1	8.55 21	0.99	9.54
4	5.8			4.73	10.53	9.8	9.1	9.75 01	1.00	10.75 E
5	6.5			4.76	11.26	~~1.~~	~~1.~~	.	.	F
6	7.1			4.76	11.86	m.s.	m.s.	.	.	.
7	7.2			4.76	11.96					
8	7.5			4.76	12.26					
9	7.9	8.1	8.00 11	4.80	12.80					
10	8.4			4.84	13.24					
11	8.8			4.92	13.72					
12	9.2	9.2	9.20 00	5.05	14.25					
13	9.4	9.3	9.35 01	5.11	14.46					
14	9.5	9.5	9.50 00	5.15	14.65					
15	9.1	9.1	9.70 00	5.25	14.95					
16	9.1	9.6	9.65 10	5.22	14.87					
17	m.s.	m.s.	.	.	.					

Ch. F.C.

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Tuesday October 21, 1914.

Scale II Series 329. Copied

MC 6362 3/ Persei

Alt. Cor. +23

				Curve.	Magn	P.C.			Curve	Magn
a	4.2			4.53	8.73	7.6	7.1	765 01	100	8.65
c	4.1			4.60	9.30	8.4	8.4	840 00	100	9.40
d	4.6			4.58	9.18	8.5	8.5	850 00	100	9.50
b	4.1			4.60	9.30	8.6	8.6	860 00	100	9.60
e	4.9			4.64	9.54	9.1	8.9	900 11	100	10.00
g	5.1			4.72	10.42	9.6			100	10.60 E
f	5.1			4.72	10.42	9.9			100	10.90 E
h	6.3			4.76	11.06	9.8			100	10.80 E
k	6.4			4.77	11.17					
k'	6.6			4.77	11.37					
m	6.1			4.77	11.47					
l	6.8			4.77	11.57					
n	7.2			4.76	11.96					
n'	7.5			4.76	12.26					
n^2	8.4	8.4	840 00	4.84	13.24					
o	8.4	8.4	840 00	4.84	13.24					
p	8.8	8.8	880 00	4.92	13.72					
q	9.1	8.8	895 12	4.96	13.91					
r	9.4	9.3	935 01	5.11	14.46					
s	9.7	9.7	970 00	5.25	14.95					
t	9.9	9.9	990 00	5.36	15.26					
Var.	4.6		45	4.58	9.18	8.7			100	9.70

Ch. F. C.

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Tuesday October 27, 1914-

Scale 11 Series 329. Copied

Mc 6363 22 K.

				Curve	Magn					Curve	Magn
1	3.2					B.C.	6.5	6.6	6.55 .10	0.97	7.52
2	3.9						7.3	7.1	7.20 .11	0.98	8.18
3	4.8		*	4.62	9.42		8.6	8.5	8.55 .01	1.00	9.55
4	5.0			4.65	9.65		8.7	8.7	8.70 .00	1.00	9.70
5	5.8			4.73	10.53		9.6	9.7 poor	9.65 .01	1.00	10.65 g &
6	6.5			4.76	11.26		F.				F
7	7.2			4.76	11.96		m.s.				
8	7.5			4.76	12.26						
9	7.7			4.77	12.47						
10	7.8			4.78	12.58						
11	8.5			4.85	13.35						
12	8.7	8.7	8.70 .00	4.89	13.59						
13	8.9	9.2	9.05 .12	4.98	14.03						
14	9.4	9.4	9.40 .00	5.13	14.53						
15	9.5	9.5	9.50 .00	5.15	14.65						
16	9.7	9.8	9.75 .10	5.28	15.03						
2 = α											
1 = β								6.6		0.97	7.57
γ	3.0						6.6	6.6	6.60 .00	0.97	7.57
δ	4.2			4.53	8.73 &		7.7	7.7	7.70 .00	1.00	8.70
ε	3.9						7.5	7.5	7.50 .00	0.99	8.49

Ch. F. 6.

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1914phae.proj.10630

Tuesday October 27, 1914.

Scale 11 Series 329. Lepaute

mc 6364 94 K

				Curve	Magn
1	3.6				
2	3.7				
3	4.5			4.57	9.07
4	5.4	5.1	5.25 21	4.67	9.92
5	5.1			4.72	10.42
6	6.5			4.76	11.26
7	1.1	1.2-1.3	7.20 101	4.76	1196
8	6.9	1.3	7.10 22	4.76	11.86
9	1.6	1.1	7.65 01	4.77	1242
10	1.4	1.5	7.45 01	4.76	1221
11	1.1			4.77	1247
12	8.2			4.81	1301
13	8.4			4.88	1324
14	8.9	8.9	8.90 00	4.95	1385
15	8.9	8.8	8.85 10	4.93	1378
Inv. poor 16	9.3	9.4	9.30 11	5.08	1438
17	9.6	9.1	9.65 01	5.22	1487
18	9.9	9.9	9.90 00	5.36	1526

Alt. Cur. +06

C.C.				Curve	Magn
6.5	6.5	double?	6.50 00	0.97	7.47
6.1	6.8		6.75 10	0.98	7.73
7.6	7.8		7.70 11	0.99	8.69
8.9	8.9		8.90 00	1.00	9.90
9.6	9.4		9.50 11	1.00	10.50
		m.s.			

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1914phae.proj.10630

Tuesday October 27, 1914-

Scale 2

Series 329.

mc 6365 Pole -

				P.C.
5				sup. on star.
6				6.1 6.2 6.15 ± 0 poor. In fogged part of plate.
8				7.7 7.7 7.40 00
9				7.7 7.8 7.75 ± 0
10	4.6			7.9 7.9 7.90 00
11	4.9			8.6 8.6 8.60 00
12	5.2			8.8
13	5.6			9.4
14	5.8			9.5
15	6.3			?
16	6.7			
17	6.8			
18	7.5			
19	7.7			
20	8.1			
23	8.6	8.6	8.60 00	
25	8.1	8.1	8.10 00	
26	9.3	9.2	9.25 10	
27	9.4	9.6	9.50 ± 1	
28	9.8	9.8	9.80 00	
29	10.1	10.1?	10.10 00	
30	m.s.			lch. 96.

See p. 44

2:15.

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1914phae.proj.10630

Wednesday October 28, 1914.

Scale 11 — Series 3 29. — 9:57 — MC 6365 — Pole.

			Diff.	B.C. Sup.	B.C. nearly Sup.	B.C.	Diff
5							
6				6.3	5.9	6.10 22	1.01
8				1.4	1.4	7.40 00	0.83
9				1.7	1.8	7.75 1 0	1.08
10	4.6		4.42	1.8	1.8	7.80 00	1.22
11	4.1		4.85	8.5	8.6	8.55 1 0	1.00
12	5.0		4.86	8.1			1.16
13	5.6		4.70	9.3			1.00
14	5.9		4.75	9.4			1.25
15	6.5		4.58	J.			
16	6.7		4.70				
17	6.8		4.83				
18	7.5		4.56				
19	7.6		4.82				
20	7.9	8.1	8.00 1 1	4.73			
23	8.6	8.6	8.60 0 0	4.74			
25	8.7	8.7	8.70 0 0	5.17			
26	9.2	9.4	9.30 1 1	5.03			
27	9.5	9.6	9.55 1 0	5.14			
28	9.7	9.7	9.70 0 0	5.41			
29	10.1?	10.2?	10.15 1 0	5.51?			
30							
31							

Very faint

Sh. S.C.

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~~Tuesday~~ Wednesday October 28, 1914.

Scale 11

Series 329. Copied

		mc 6367	A 2	3h-15°				
			Curve Magn	B.C.			Curve	Magn
	1	3.5		6.4	6.5	6.45 .01	1.00	7.45
	2	3.1		6.8	6.9	6.85 .01	1.00	7.85
Fogged	3	.		.	.		.	.
Unfogged part of pl.	4	3.6		7.2	.		1.00	8.20
	5	3.8		7.1	7.4	7.25 .2	1.00	8.25
	6	4.2		7.6	7.7	7.65 .01	1.01	8.66
	7	4.4	4.88 9.28 &	7.8	7.8	7.80 .00	1.02	8.82
" " " "	8	tp.	. .	tp.			.	9?
	9	4.6	4.86 9.47	8.4			1.05	9.45
" " " "	10	.	. .	.			.	.
	11	4.7	4.86 9.56	8.6			1.06	9.66
	12	4.9	4.85 9.75	8.9			1.08	9.98
	13	5.1	4.84 9.94	9.3			1.13	10.43
	14	5.5	4.81 10.31	9.4			1.14	10.54
	15	5.8	4.75 10.55	9.8			1.17	10.97 &
	16	5.8	4.75 10.55	9.9			1.18?	11.08 &
	17	6.2	4.72 10.92	n.s.			.	.
	17a	6.6	4.81 11.31					
	18	6.1	4.80 11.40					
	19	6.8	4.70 11.50					
	20	6.8	4.70 11.50					
	21	7.5	4.70 12.20					
	22	7.8	4.70 12.50					
	23	7.8	4.70 12.50					
	24	8.2	4.75 12.95					
	25	8.5	4.83 13.33					

Alt. Exp. 21

Sch. F.b.

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1914phae.proj.10630

Wednesday, October 28, 1914

Scale 10

Series 329

3 – 15°

Mc6367 cont.

Alt. Ver. – 21

					Curve	Magn
	26	8.6			4.85	13.45
	27	9.4	9.1	9.25 2	5.04	14.29
	28	9.1	8.9	9.00 1	4.94	13.94
	29	9.4	9.4	9.40 0	5.14	14.54
def?	30	.	.		.	.
	31	9.9	10.0	9.95 1	5.48	15.43 &
	32	10.0	10.0	10.00 0	5.52	15.52 &
seen but not comp. with scale	33	F.	.		.	F.
	34	m.s.			.	.

Ch. F.C.

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1914phae.proj.10630

Wednesday October 28, 1914.

Scale U Series 329 Copied

MC 6368 62 3 +150

			Curve	Magn	C.C.	Curve	Magn		
In fogged part of pl.	1								
" " " " "	2								
	3	3.6			6.5	6.5	6.50 i o	0.99	7.49 8.48
	4	3.7			6.8	6.8	6.80 i o	1.00 0.99	7.80 7.79 8.78
	5	3.7			6.7	6.8	6.75 L o	1.00	7.75
	6	3.9			7.6	7.6	7.60 i o	1.02	8.61
	7	4.2			7.6	7.7	7.65 o i	1.01	8.66
	8	4.5 4.3	4.40 i i	4.88	8.1			1.04	9.14
	9	4.4 4.2	4.30 i i	4.89 9.19 E	8.2			1.04	9.24
	10	4.6		4.86 9.46	8.3			1.04	9.34
	11	4.7		4.86 9.56	8.7			1.06	9.76
	12	5.0		4.84 9.84	9.1			1.10	10.20
	12a	5.5		4.80 10.30	9.5			1.14	10.64
	13	5.4		4.81 10.21	9.4			1.13	10.53
	14	5.8		4.76 10.56	9.7			1.16	10.86 E
	15	6.2 6.3	6.25 o i	4.72 10.97	F.			,	F
	16	6.1 6.3	6.20 L i	4.72 10.92					
	17	6.4		4.71 11.11					
	18	6.5		4.71 11.21					
	19	6.8		4.70 11.50					
	20	7.4		4.70 12.10					
	21	7.4		4.70 12.10					
	22	7.5		4.70 12.20					
	23	7.7		4.70 12.40					
	24	7.9		4.72 12.62					
	25	8.1		4.74 12.84					

lch F.6.

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Wednesday, October 28, 1914.

Scale U

Series 29.

Mc 6368 cont.

Alt. Cur. +16

			Curve	Magn
26	8.6	8.1	8.65 .01	4.85 13.50
27	8.8	8.1	8.75 .01	4.87 13.62
28	9.3	9.4	9.35 .10	5.12 14.47
29	9.4	9.4	9.40 .00	5.14 14.54
30	9.1	9.1	9.10 .00	5.30 15.00
31	F.	F.	.	. F
32	n.s.		.	. .
33	n.s.		.	. .

ch. F.6.

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Wednesday October 28, 1914.

Scale 11 Series 329 Copied.

	Mc 6369		Carte		3 0 + 39.5				
					Alt. corr. +11				
			Curve.	Magn	G.C.			Curve.	Magn
1	3.5				6.7	6.8	6 7.5 1.0	1.00	7.75
2	4.0				7.6	7.1	7.65 0 1	1.01	8.66
3	4.0				7.8	7.8	7.80 0 0	1.02	8.82
4	4.5		4.87	9.37 E	8.5	8.4	8.45 1 0	1.05	9.50
5	4.9		4.85	9.75	8.1	8.1	8.70 0 0	1.06	9.76
6	5.0		4.74	9.74	8.1			1.06	9.76
7	5.2		4.72	9.92	9.1			1.10	10.20
8	5.8		4.79 6	10.58 5	9.8			1.16	10.96 E
9	5.9		4.79 75	10.59 65	10.0?			++	.
10	6.5		4.70	11.20					
11	7.2		4.73 69	11.75 89					
12	7.5		4.83 70	12.32 20					
13	8.1		4.76 75	13.06 12.85					
14	8.6		5.05 4.85	13.85 4					
15	8.1		4.80 7	13.50 7					
16	9.1	9.1	9.10 0 0	4.98 5.56 1408					
17	9.4	9.4	9.40 0 0	5.14	14.54				
18	9.5	9.5	9.50 0 0	5.18	14.68				
19	9.1	9.1	9.70 0 0	5.29	14.99				
20	9.9	10.0	9.95 1 0	5.49	15.44				

Mch. F.C.

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Scale x Series 329. Copied

Mc 6370 B21 4 +45°.

Att. br. +22

			Curve	Magn	A.C.			Curve	Magn
1	3.0				6.2	6.2	6.20 00	1.00	7.20
2	3.6				6.5	6.5	6.50 00	1.00	7.50
3	3.5				6.1	6.6	6.65 10	1.00 .65 ~~.99~~	~~7.34~~
4	4.9				6.8	6.1	6.75 01	1.00	7.75
5	3.7				6.1	6.8	6.75 10	1.00	7.75
6	4.2		~~4.53~~		7.3	7.3	7.30 00	1.00	8.30
7	3.7				7.3	7.3	7.30 00	1.00	8.30
8	4.1				7.4			1.01	8.41
9	4.2		~~4.52~~		7.5			1.02	8.52
10	4.5		4.81	9.37 E	7.8			1.03	8.83
11	4.6		4.86	9.46	8.1			1.04	9.14
12	4.6		4.86	9.46	8.3			1.04	9.34
13	4.6		4.86	9.46	8.3			1.04	9.34
14	4.8		4.85	9.65	8.6			1.05	9.65
15	5.2		4.88	10.03	8.6			1.05	9.65
16	5.2		4.88	10.03	8.7			1.06	9.76
17	5.6		4.80	10.40	9.2			1.11	10.31
18	5.9		4.75	10.65	9.4			1.13	10.53
19	6.2	6.2	6.20 00	4.72	10.92	±		,	F
20	6.1	6.4	6.25 12	4.72	10.97				
21	6.6			4.71	11.31				
22	6.6			4.71	11.31				
23	6.1			4.70	11.40				
24	6.1			4.70	11.40				
24a	7.2			4.70	11.90				
25	1.5			4.70	12.20				
26	1.5			4.70	12.20				

Feb. P.6.

Plate is streaked thru middle.

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Wednesday October 28, 1914.

Scale U Series 329. Copied

MC 6370 B 2 + +45°

Alt. Obs. +22

					Curve	Magn
27	7.6				47.7	12.37
28	7.7				47.7	12.47
29	8.1	8.1	8.10	0.0	4.78	12.88
30	8.6	8.6	8.60	0.0	4.87	13.47
31	9.1	9.1	9.10	0.0	5.00	14.10
31a	9.4	9.3	9.35	0.1	5.11	14.46
32	9.6	9.6	9.60	0.0	5.29	14.89
33	9.9	10.0?	9.95	1.0	5.49	15.35
34	n.s.	n.s.				
35	n.s.	n.s.				

Ch. F.C.

12:05

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1914phae.proj.10630

Thursday October 29, 1914.

Scale K

Series 319

9:55 mc 6239 Pole-

			mc 6244 p.99	mc 6250 p.107	Mean	Diff.	P.C.			mc 6244 p.99	mc 6250 p.107		Diff.
5							5.7	5.1	5.70 00	6.40	6.50	35 35	6.05 0.44
6							6.2	6.4	6.30 1 1	6.70	7.40	6.50	6.50 20 20 00 0.61
8							7.4	7.4	7.40 00	7.70	7.70	7.40	7.50 10 20 10 0.73
9							7.7	7.7	7.70 00	8.45	8.20	7.70	7.95 25 50 25 1.88
10	4.5		4.7	4.6	4.60 1 1 0	4.42	7.7	7.7	7.70 00	8.55	8.60	8.20	8.15 45 40 05 0.87
11	4.7		5.2	4.8	4.90 2 3 1	4.65	8.3			9.0	8.7	8.60	8.63 33 37 03 0.72
12	5.0		5.4	5.4	5.27 3 1 1	4.59	8.6			9.1	9.1	8.7	8.80 2 3 1 1.06
13	5.4		5.7	5.6	5.57 2 1 0	4.73	8.1			9.7	9.4	9.1	9.17 5 5 1 1.13
14	5.6		6.3	6.1	6.00 4 3 1	4.65	9.1			F	9	9.4	9.25 1 2 1.40
15	6.1		6.5	6.4	6.33 2 2 1	4.75	9.4			F		9.6	9.50 1 1 1 1.58
16	6.5		6.7	6.6	6.60 1 1 0	4.80	9.8					F	9.80 2 1 1 1.60
17	6.6		6.8	6.8	6.73 1 1 1	4.90	m.s.						
18	7.2		7.4	7.3	7.30 1 1 0	4.76							
19	7.5		7.60	7.5	7.53 03 07 03	4.89							
20	7.7		7.80	7.7	7.73 03 07 03	5.00							
23	8.4		8.3	8.3	8.33 1 0 0	5.01							
25	8.6	8.6	8.60 00	8.45	8.60	8.55 05 10 05	5.32						
26	8.8	8.9	8.85 01	8.85	8.85	8.85 00 00 00	5.48						
27	9.1	9.2	9.15 1 0	9.30	9.20	9.22 07 08 02	5.47						
28	9.6	9.4	9.50 1 1	9.50	9.50	9.50 00 00 00	5.61						
29	9.9	9.9	9.90 00	9.90	9.75	9.85 05 05 10	5.81						
30	m.s.	m.s.	.	.	9.85	9.85 1 1 2	6.19						

Reject p.c. faster than Star 13. as mc 6244 drops out systematic difference begin. All scale readings for p.c. faster than 9.2 reject in this series. Readings between 8.7 and 9.2 erected from altered curve H.S.L. May 25, 1915

leh. F.b.

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Thursday October 29, 1914.

Scale U Series 319 Copied.

Nma 6 7.40 C12 23 +15°

Alt. Corr. +15

		Curve	Magn	B.C.			Curve	Magn	Curve	Magn
1	B.			5.5	5.5	5.50 .00	4.64	10.14	.	
2	3.2			5.8	5.8	5.80 .00	4.67	10.47	0.35	6.15 E
3	3.0			6.3	6.1	6.20 .11	4.73	10.93	0.50	6.70
4	3.6			6.5	6.5	6.50 .00	4.76	11.26	0.58	7.09
5	3.1			6.7	6.7	6.70 .00	4.78	11.48	0.63	7.33
6	3.8			7.2			4.86	12.06	0.69	7.89
7	4.0	4.49	8.49 E	7.3			4.88	12.18	0.71	8.01
8	3.8	4.47	8.27 E	7.2			4.86	12.06	0.69	7.89
9	4.5	4.53	9.03 E	7.1			4.96	12.66	0.75	8.45
10	4.3	4.51	8.81 E	7.6			4.95	12.55	0.74	8.34
11	4.6	4.54	9.14	7.8			4.98	12.78	0.77	8.57
12	4.5	4.53	9.03	8.2			5.09	13.29	0.86	9.06
13	4.7	4.55	9.25	8.4			5.15	13.45	0.92	9.32
14	4.9	4.57	9.47	8.6			5.24	13.84	0.97	9.57
15	4.7	4.55	9.25	8.5			5.19	13.69	0.94	9.44
16	5.4	4.64	10.04	8.8			5.33	14.18	1.07 (2)	9.87 (2)
17	5.6	4.65	10.25	9.1			5.46	14.56	1.22 (10)	10.32 (20)
17a	5.9	4.68	10.58	9.2			5.50	14.70	1.29 (13)	10.49 (33)
18	5.9	4.68	10.58	9.6			5.68	15.28	1.55	11.15
double.	19	.	.	.			.	.	.	.
	19a	6.6	4.77 11.37	10.0			5.85	15.85	.	.
	20	6.7	4.79 11.47							
	21	6.9	4.83 11.73							
	21a	7.4	4.90 12.30							
	22	7.6	4.95 12.55							
	23	7.7	4.96 12.66							

For Rejection of Star 18, see Remark for 9.

Ch. F.C.

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Thursday October 29, 1914.

Scale 2

Series 319 -

mc 6240 | C 12 | 2h +15°

Alt. Br +15

				Curve.	Magn.
24	7.9			5.00	12.90
25	7.8			4.98	12.78
26	8.4			5.16	13.56
27	8.6			5.24	13.84
28	8.3			5.13	13.43
29	9.1	8.9	9.00 ~~00~~ 1L	5.42	14.42
30	9.1	9.1	9.10 00	5.46	14.56
31	9.5	9.4	9.45 10	5.60	15.05
32	9.9	9.7	9.80 11	5.76	15.56
33	9.9	9.7	9.80 11	5.76	15.56
34	m.s.m.s.				

Ch. F. C.

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Thursday October 29, 1914.

Scale R

Series 319.

Mc 6241 Eros c.s. 23 to +30.0

Alt. bir. +21

				Curve.	Magn	P.E.			Curve	Magn
1	4.4			4.53	8.93 E	7.5	7.6	7.55 ± .0	0.73	8.28
2	4.4			4.53	8.93 E	7.7	7.8	7.75 ± .0	0.76	8.51
3	5.0			4.58	9.58	8.6	8.6	8.60 .00	0.98	9.58
4	5.0			4.58	9.58	8.6	8.6	8.60 .00	0.98	9.58
5	5.6			4.65	10.25	9.1	9.1	9.10 .00	1.22 (10) 1.32 (20)	10.22
6	5.6			4.65	10.25	9.4			~~1.45~~	~~10.85~~
7	6.5			4.76	11.26	9.8			~~1.74~~ ~~1.56~~	11.54
8	6.4			4.75	11.15	n.s.				
9	6.1			4.78	11.48					
10	7.6			4.95	12.55					
11	7.6			4.95	12.55					
12	8.3			5.13	13.43					
13	8.5			5.19	13.69					
14	8.4			5.16	13.56					
15	8.1			5.27	13.97					
16	8.8	8.1	8.75 .01	5.31	14.06					
17	9.1	9.1	9.10 .00	5.46	14.56					
18	9.3	9.3	9.30 .00	5.54	14.84					
19	9.4	9.1	9.55 .21	5.67	15.22					
20	9.6	9.6	9.60 .00	5.68	15.28					

For rejection of Stars 6 and 7, see Remark page 91

Ch. F.C.

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Thursday October 29, 1914.

Scale U Series 319. Lespiel

MC 6242 1 Androm. 0 20 +25.0

		Curve	Magn		O.C.			Curve	Magn
b	4.0	4.48	8.48	E	1.4	1.3	7.35 01	0.72	8.07
a	4.2	4.50	8.70	E	1.5	1.6	7.55 10	0.74	8.29
d &	4.4	4.52	8.92	E	1.6	1.6	7.60 00	0.74	8.34
f	4.6	4.54	9.14		8.3	8.3	8.30 00	0.88	9.18
c	4.6	4.54	9.14		8.4	8.3	8.35 01	0.91	9.26
e	4.7	4.55	9.25		8.6			0.98	9.58
g	4.9	4.57	9.47		8.5			0.94	9.44
h	5.5	4.64	10.14		8.9			1.10 06	9.96 10.00
k	5.7	4.65	10.35		9.5			1.50	11.00
l	5.8	4.66	10.46		9.4			1.45	10.85
m	5.9	4.68	10.58		9.5			1.50	11.00
n	5.9	4.68	10.58		9.1			1.65	11.35
o	5.9	4.68	10.58		9.6			1.60	11.20
q	6.5	4.76	11.26		10.0?				
q'	6.8	4.80	11.60						
r	6.9	4.83	11.73						
t	7.4	4.90	12.30						
p	7.4	4.90	12.30						
u	7.6	4.95	12.55						
w	7.7	4.97	12.67						
w'	7.7	4.97	12.67						
x	7.8	4.98	12.78						
x'	8.1	5.04	13.14						
x²	8.5	5.19	13.69						
z	8.6	5.24	13.84						
y	8.8	5.33	14.13						
β	8.7	5.26 8	13.96 8						

In upichon of Mrs K 60, see Reinmuth page 91

cont. on next page.

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MC 6242 J Androm. cont.

Alt. Bu. 720

B.D.

				Curve	Magn
α	~~8.7~~ 8.1	8.1	8.70 00	5.27	13.97
γ	8.9	9.2	9.05 12	5.44	14.49
δ	9.7	9.1	9.70 00	5.72	15.42
ε	9.8	9.8	9.80 00	5.76	15.56
	Var.	9.4		5.59	14.99

very poor im.

Ref. Seg. for centre of Plate.

Not copied.

					Curve	Magn
1	B			5.1 5.1	5.70 00	. .
2	B			6.6 6.6	6.60 00	0.60 7.20
3	3.7		4.47	8.17 E	1.5 1.5	7.50 00	0.73 8.23
4	4.4		4.52	8.92 E	1.1 1.6	7.65 10	0.74 8.39
5	~~4.5~~ 5.5		4.53	9.03 E	8.3 8.3	8.30 00	0.88 9.18
6	5.5	5.5	5.50 00	4.64	10.14	9.1 9.2	9.15 10	1.26 10.41
7	5.0	5.0	5.00 00	4.58	9.58	8.6 8.6	8.60 00	0.98 9.58
8	6.3			4.74	11.04	±	. ±
9	6.7			4.78	11.48		
10	7.5			4.93	12.43		
11	7.6			4.95	13.55		
12	7.7			4.97	12.67		
13	8.2			5.08	13.28		
14	8.6			5.24	13.84		
15	8.6			5.24	13.84		
16	8.6			5.24	13.84		
17	9.2			5.50	14.70		
18	9.2			5.50	14.70		
19	9.1			5.72	15.42		
20	9.8			5.76	15.56		

leh. F.L.

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Thursday October 29, 1914.

Scale K Series 319. Leopold

"Mc 6243 γ Cassiop. 0 30 +55.0

Alt. Cor. +2.2

			Curve.	Magn	P.C.			Curve	Magn
a	B				5.4	5.2	5.30 11		
b	B.				5.9	5.9	5.90 00	0.40	6.30
c	3.6				6.7	6.7	6.70 00	0.63	7.33
c'	3.5				6.1	7.2	6.95 3.2	0.66	7.61
d	3.8		4.47	8.27 E	7.6	7.6	7.60 00	0.74	8.34
d'	4.5		4.53	9.03 E	7.9	7.8	7.85 10	0.77	8.62
d^2	4.7		4.55	9.25 E	8.6			0.97	9.57
e	3.5				7.4			0.72	8.12
f	3.7		4.47	8.17 E	7.6			0.74	8.34
g	4.6		4.54	9.14 E	8.4			0.93	9.32
g'	5.4		4.63	10.03	9.3			~~1.35~~	~~10.65~~
g^2	5.5		4.64	10.14	9.3			~~1.35~~	~~10.65~~
h	4.9		4.57	9.47	8.6			0.97	9.57
k	5.1		4.66	10.36	9.6			~~1.55~~	~~11.15~~
double. l	.		.	Dbl.	.			.	.
l'	5.6		4.65	10.25	t.fr.			.	q.
m	5.6		4.65	10.25	9.4			~~1.44~~	~~10.84~~
n	~~6.6~~ 5.1 w.s.		4.66	10.36	9.5			~~1.50~~	~~11.00~~
n'	6.1		4.71	10.81	f.			.	Fl
o	6.2		4.73	10.93					
o'	6.1		4.79	11.49					
p	6.3		4.74	11.04					
p'	6.3		4.74	11.04					
q	6.1		4.79	11.49					
r	6.1	6.8	6.75 10	4.80	11.55				
s	8.6	8.6	8.60 00	5.24	13.84				

For equality of p.c. when reading is fainter than 9.2, see page 91

Eh. F. C.

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1914phae.proj.10630

Thursday October 22, 1914.

Scale II. Series 319.

MC 6243 I Cassiop. cont.

J. Alt. Corr. +22

B.C.

				Curve	Magn.
d'	7.6	7.5	7.55 .01	4.93	12.48
t	8.6	8.6	8.60 .00	5.24	13.84
u	8.6	8.5	8.55 .01	5.22	13.77
w	9.3	9.2	9.25 .10	5.51	14.76

Ref. Seq. for centre of pl.

					Curve	Magn.
1	B.			B	6.7 6.7	6.70 .00 0.63 7.33
2	3.6				7.3 7.4	7.35 .10 0.70 8.05
3	4.2		4.50	8.70 E	7.6 7.6	7.60 .00 0.74 8.34
4	4.2		4.50	8.70 E	7.7 7.7	7.70 .00 0.75 8.45
5	4.7		4.55	9.25	8.6 8.6	8.60 .00 0.91 9.57
6	5.1		4.59	9.69	8.1	1.00 9.70
7	5.4		4.63	10.03	9.1	~~1.22~~ .10 ~~10.32~~ .20
8	5.6		4.65	10.25	9.1	~~1.22~~ .10 ~~10.32~~ .20
9	5.6		4.65	10.25	9.4	~~1.45~~ ~~10.85~~
10	6.2		4.73	10.93	10.0	, ,
11	6.1		4.79	11.49		
12	7.6		4.95	12.55		
13	8.4		5.15	13.55		
w.s. 14	~~7.3~~ 8.6		5.24	13.84		
15	8.6		5.24	13.84		
16	8.8	8.1	8.75 .01	5.38	14.06	
17	8.1	8.8	8.75 .10	5.38	14.06	
18	9.3	8.8	9.05 .32	5.43	14.48	
19	9.5	9.5	9.50 .00	5.62	15.12	
20	9.1	9.1	9.70 .00	5.72	15.42	

For changes in p.c. see Remarks, page 9

bh P.C.

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1914phae.proj.10630

Thursday October 29, 1914.

Scale U

Series 319.

	MC 6244	Pole.		
				O.C.
5			6.4	6.4 6.40 00
6			6.7	6.7 6.70 00
8			7.7	7.7 7.70 00
9			8.4	8.5 8.45 01
10	4.7		8.5	8.5 8.55 10
11	5.2		9.0	
12	5.4		9.1	
13	5.7		9.1	
14	6.3		‡.	
15	6.5		‡.	
16	6.7			
17	6.8			
18	7.4‡			
19	7.6 7.6	7.60 00		
20	7.7 7.9	7.80 11		
23	8.3			
25	8.6 8.3	8.45 21		
26	8.9 8.8	8.85 10		
27	9.2 9.4	9.30 11		
28	9.5 9.5	9.50 00		
29	9.9 9.9	9.90 00		
30	‡. ‡.			
31	n.s. n.s.			

See p 91

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1914phae.proj.10630

Thursday October 29, 1914

Scale U Series 319 Leopold

*Me 6245 D 2 3 – 15°

Alt. Corr. + – 19

		Curve	Magn				B.C.		Curve	Magn
1	3.4						6.4	6.4	0.56	6.96
2	3.6						7.1	7.1	0.67	7.77
3	3.5						6.4	6.4	0.56	6.96
4	3.7	4.47	8.17	E			7.1	7.3	0.69 ~~0.86~~	7.89 ~~8.06~~
5	5.1	4.47	8.17	E			7.1	7.1	0.68 ~~0.83~~	7.78 ~~7.93~~
6	3.9	4.48	8.38	E			7.5		0.72	8.23
7	4.0	4.49	8.49	E			7.6		0.74	8.34
8	4.0	4.49	8.49	E			7.6		0.74	8.34
9	4.4	4.52	8.92	E			7.8		0.77	8.57
10	4.6	4.54	9.14				8.4		0.93	9.33
11	4.6	4.54	9.14				8.4		0.93	9.33
12	4.6	4.54	9.14				8.4		0.93	9.33
13	4.8	4.57	9.37				8.1		1.00	9.10
14	5.5	4.64	10.14				9.1		~~1.82~~ 1.10	~~10.32~~
15	5.1	4.65	10.35				9.5		~~1.3~~	~~11.00~~
16	5.6	4.65	10.25				9.4		~~1.45~~	~~10.85~~
17	6.1	4.71	10.81				9.6		~~1.55~~	~~11.15~~
17a	6.6	4.76	11.38				9.8		~~1.75~~	~~11.55~~
18	6.5	4.76	11.26				9.9			
19	6.6	4.78	11.38				t.p.			gf
20	6.6	4.78	11.38							
21	7.4	4.91	12.31							
22	7.5	4.93	12.43							
23	7.7	4.96	12.66							
24	def?	.	R							
25	8.5	5.19	13.69							

For changes in f.c., see Remarks page 91.

(double)

Leh. F.C.

* Images poor, especially faint stars.

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Thursday October 29, 1914.

Scale R Series 319

Mc 6245 D. 2 cont.

Alt. Bu. -19

					Curve	Magn	
26	8.6				5.24	13.84	
27	8.1				5.27	13.97	
28	9.1	8.8	8.8	8.90	5.36	14.26	
29	9.1	9.1		9.10 00	5.46	14.56	
30	9.2	9.3		9.25 01	5.51	14.76	
from 31	9.6	9.1		9.65 01	5.68	15.33	q
" 32	9.6	t.p.			5.67	13.27	
33	t.p.				.	q	
34	n.s				.	.	

Ch. F. 6.

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Thursday October 29, 1914 -

Scale 11 — Series 319 - Leopold

Me 6246 — C2 — 3 + 15°

Att. Cor +17

			Curve	Magn	O.C.			Curve	Magn
1	Q.			B	6.1	6.1	6.10 00	0.46	6.56
2	Q.			B	6.2	6.3	6.25 01	0.51	6.76
3	3.7		4.47	8.17 E	6.5	6.5	6.50 00	0.58	7.08
4	3.9		4.48	8.38 E	7.1	7.1	7.10 00	0.67	7.77
5	3.6		,	,	6.9	7.1	7.00 1 1	0.66	7.66
6	4.0		4.49	8.49 E	7.4			0.72	8.12
7	4.4		4.52	8.92 E	7.6			0.74	8.34
8	4.6		4.54	9.14	7.7			0.75	8.45
9	4.4		4.52	8.92 E	7.7			0.75	8.45
10	4.5		4.53	9.03 E	8.1			0.83	8.93
11	4.6		4.54	9.14	8.6			0.97	9.57
12	5.0		4.58	9.58	8.6			0.97	9.57
12a	5.5		4.64	10.14	8.7			1.00	9.70
13	5.4		4.63	10.03	8.7			1.06	9.70
14	5.6		4.65	10.25	8.8			10X 2	9.8X 2
15	6.1		4.71	10.81	9.3			~~1.36~~	10.66
16	5.9		4.68	10.58	9.1			1.22 10	~~10.93~~ 20
17	6.5		4.76	11.26	9.5			~~1.50~~	~~11.00~~
18	6.4		4.75	11.15	t.p.				9f
19	6.1		4.79	11.49	9.6			~~1.55~~	~~11.15~~
20	6.8		4.81	11.61					
21	7.3		4.88 4.71	12.18					
22	7.4		4.91	12.31					
23	7.6		4.95	12.55					
24	7.6		4.95	12.55					
25	7.1		4.96	12.66					

For changes in p.c. see Runck Jour. 91.

Eth. F.C.

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Thursday October 29, 1914.

Scale W

Series 319. Leopold. cont.

Mc 6246 C 2

					Curve	Magn
26	8.4				5.16	13.56
27	8.6				5.24	13.84
28	8.7				5.28	13.96
29	8.7	8.7	8.70	00	5.28	13.96
30	9.4	9.4	9.40	00	5.58	14.98
31	9.1	9.6	9.65	10	5.68	15.33
32	9.8	9.8	9.80	00	5.76	15.56
33	9.7	9.8	9.75	10	5.74	15.49
34	f.	m.s.				f

b.h. F.b.

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Thursday October 29, 1914

Scale 11 — Series 319 - Replied

Mc 6247 — ~~Carte~~ D.M. 3 0 +25° Card.

			Curve.	Magn.					A.C. - Alt. Cor. +21	Curve	Magn
01	4.0		4.49	8.49	E	1.4	1.3	7.35	01	0.71	8.06
02	4.1		4.50	8.60	E	1.5	1.5	7.50	00	0.73	8.23
2=03	4.6		4.54	9.14		1.8	1.1	7.75	01	0.76	8.51
04	4.1		4.55	9.25		8.5	8.4	8.45	10	0.93	9.33
05	5.6		4.65	10.25		8.7	8.1	8.70	00	1.00	9.70
06	5.8		4.67	10.47		9.1	9.2	9.15	10	~~1.78~~ 1.11	~~10.73~~ 10.26
07	5.6		4.65	10.25		9.2				~~1.30~~ 1.11	~~10.52~~ 10.31
08	6.1		4.79	11.49		9.8				~~1.75~~	~~11.55~~
09	6.9		4.83	11.73		m.s.					
010	7.4		4.91	12.31							
011	7.6		4.95	12.72 55							
012	7.7		4.96	12.66							
013	8.2		5.09	13.29							
014	8.1		5.27	13.97							
015	8.1	8.1	8.70	00	5.27	13.97					
016	8.8	8.1	8.75	01	5.31	14.06					
017	8.1	8.9	8.80	11	5.33	14.13					
018	9.2	9.3	9.25	01	5.51	14.76					
019	9.5	9.5	9.50	00	5.62	15.12					
020	9.7	9.7	9.70	00	5.72	15.42					

For changes in f.c. see Remarks page 91

Ch. F. C.

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Thursday October 29, 1914.

Series

Series 319 - Cooped

MC 6248 Carte 3 0 + 39.5

Alt. Corr. +23

				Curve	Magn	P.C.		Curve	Magn
1	3.6					6.6	1.0 6.80 ±2	0.64	7.44
2	4.0			4.49	8.49 E	1.5	1.5 7.50 0.0	0.73	8.23
3	4.5			4.53	9.03 E	7.6	1.1 7.65 0.1	0.74	8.39
4	4.1			4.55	9.25	8.1	8.1 8.10 0.0	0.83	8.93
5	5.1			4.59	9.69	8.5	8.6 8.55 1.0	0.96	9.51
6	5.4			4.64	10.04	8.6		0.97	9.57
7	5.5			4.64	10.14	8.6		0.97	9.57
8	5.8			4.67	10.47	8.8		10X.2	98X.2
9	5.9	6.1	6.00 1.1	4.70	10.70	9.5		1.56	11.06
10	6.5			4.76	11.26				
11	7.3			4.88	12.18				
12	7.5			4.93	12.43				
13	7.1			4.97	12.67				
14	8.4			5.16	13.56				
15	8.5			5.19	13.69				
16	8.8	8.8	8.80 0.0	5.33	14.13				
17	9.1	8.9	9.00 1.1	5.42	14.42				
18	9.1	8.9	9.00 1.1	5.42	14.42				
19	9.4	9.5	9.45 0.1	5.58	15.03				
20	9.5	9.5	9.50 0.0	5.62	15.12				

For changes in p.c. see Remarks for p. 91

Ch. F. C.

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Thursday October 29, 1914-

Scale 4

Series 319 Cepheid

Mc 6249 47K

				Curve.	Magn.
1	B.			.	B
2	B.			.	B
3	5.0			4.58	9.58
4	5.6			4.65	10.25
5	5.6			4.65	10.25
6	6.2			4.73	10.93
7	6.7			4.79	11.49
8	7.4			4.91	12.31
9	7.6			4.94	12.54
10	7.8			4.98	12.78
11	8.4	8.4	8.40 .00	5.15	13.55
12	8.5	8.5	8.50 .00	5.19	13.69
13	8.9	8.8	8.85 .10	5.33	14.18
14	8.1	8.8	8.75 .10	5.31	14.06
15	9.8	9.9	9.85 .01	5.77	15.62
16					

Alt. Cor. +22

P.C.			Curve.	Magn.
6.0	6.0	6.00 .00	0.44	6.44
6.1	6.2	6.15 .10	0.50	6.65
8.6	8.6	8.60 .00	0.98	9.58
9.1	9.2	9.15 .10	1.28 (1.16)	10.73 (10.61)
9.2	9.4	9.30 .11	~~1.37~~	~~10.67~~
9.4	9.6	9.50 .11	~~1.50~~	~~11.00~~

For changes in P.C. see Remark Prog. 91.

Changes not entered in Kapteyn Book, since means had already been ~~sent~~ taken and magns. sent.

"H.S.S" May 25, 1915

Ch. F.B.

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Thursday October 29, 1914.

Scale 2 Series 319.

	Mc 6250			Pole	
					P.C.
5					nearly sup.
6				6.5	6.5 6.50 00
8				7.4	7.4 7.40 00
9				7.1	7.1 7.10 00
10	4.6			8.3	8.1 8.20 11
11	4.8			8.6	8.6 8.60 00
12	5.4			8.7	
13	5.6			9.1	
14	6.1			~~8.9~~ 9.4	
15	6.4			9.6	
16	6.6			~~7~~	
17	6.8				
18	7.3				
19	7.5				
20	7.7				
23	8.3				
25	8.6	8.6	8.60 00		
26	8.9	8.8	8.85 10		
27	9.3	9.1	9.20 11		
28	9.5	9.5	9.50 00		
29	9.7	9.8	9.75 10		
30	9.8	9.9	9.85 01		
31	ns.	ns.			

See p. 91

7:30.

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Friday October 30, 1914 -

Scale M — Series 324 — Copied

9:30 — MG 6302 — Carlé — 17 0 +39.5°

Att. +.15

			Curve. Magn.		B.C.			Curve	Magn
1	3.6				6.7	6.8	6.75 ± 0	0.94	7.69
2	4.0		4.22	8.22 E	7.5	7.6	7.55 ± 0	0.97	8.52
3	4.2		4.27 4.34	8.47 E	7.6	7.7	7.65 0 1	0.98	8.63
4	4.6		4.40	9.00 E	8.1	8.2	8.15 ± 0	1.01	9.16
5	4.8		4.47	9.27	8.1	8.1	8.70 0 0	1.05	9.75
6	5.4		4.61	10.01	8.1	8.1	8.70 0 0	1.05	9.75
7	5.6		4.65	10.25	9.3			1.13	10.43
8	5.5		4.63	10.16 3	9.4			1.15	10.55
9	5.9		4.70	10.60					
10	6.2		4.74	10.94	m.s.				
11	6.7		4.78	11.48					
12	7.4		4.87	12.27					
13	7.5		4.88	12.38					
14	8.2		5.02	13.22					
15	8.6		5.11	13.71					
16	8.1	8.1	8.70 0 0	5.13 13.83					
17	8.9	8.1	8.80 1 1	5.17 13.97					
18	9.4	9.1	9.25 2 1	5.28 14.53					
19	9.6	9.6	9.60 0 0	5.39 14.99					
20	9.6	9.6	9.60 0 0	5.39 14.99					

Ch. F. C.

20 appeared slightly brighter than 19 - but does not measure so

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1914phae.proj.10630

Friday, October 30, 1914.

Scale U

Series 324.

NGC 6303. Pole.

				NGC 6306	Mean.	Diff.	Q.C.			Mean	Diff.
				7h 11s							
5							5.1	5.1	5.70 0.0	5.55	5.62 0.8 0.7 0.87
6							6.2	6.1	6.15 0.1	6.15	6.15 0.0 0.0 0.96
8							7.2	7.5	7.35 2.1	7.20	7.28 0.7 0.8 0.95
9							7.8	7.8	7.80 0.0	7.80	7.80 0.0 0.0 1.03
10	4.1			47	4.70	0.0 4.32	8.1	8.1	8.10 0.0	7.90	8.00 1.0 1.0 1.02
11	4.9			5.0	4.95	1.0 4.60	8.6			8.5	8.55 0.1 1.00
12	5.1			5.4	5.25	1.2 4.61	8.6	8.8		8.7	8.75 0.1 1.11 (meas. start done 1st time)
13	5.6			5.6	5.60	0.0 4.70	9.2			9.3	9.25 0.1 1.05
14	5.9			5.9	5.90	0.0 4.75	9.4			9.45	9.42 0.2 0.3 1.23
15	6.4			6.3	6.35	0.1 4.73	9.9			,	9.90 a. 1.18
16	6.7			6.6	6.65	1.0 4.75	m.s.			,	,
17	6.8			6.7	6.75	0.1 4.88					
18	7.4			7.2	7.30	1.1 4.76					
19	7.6			7.5	7.55	0.1 4.87					
20	7.8			7.7	7.75	0.1 4.98					
23	8.5	8.4	8.45 1.0	8.4	8.42	0.3 0.2 4.92					
25	8.1	8.1	8.70 0.0	8.60	8.65	0.5 0.5 5.22					
26	9.3	9.3	9.30 0.0	8.75	9.02	2.8 2.7 5.31					
27	9.4	9.4	9.40 0.0	9.35	9.38	0.2 0.3 5.31					
28	9.1	9.1	9.70 0.0	9.70	9.70	0.0 0.0 5.41					
29	t.p.	t.p.	.	9.90	9.90	. a 5.76					
30	m.s.		.	.							
31			.	.							

leh. F.C.

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Friday October 30, 1914

Scale

Series 324

MC 6304 Alt +.10 $19^h\ 0^m + 5.0^\circ$

				Curve	Magn		B.C.			Curve	Magn
1	3.6			.							
2	4.3			4.30	8.60	E	1.4	1.5	7.45 .01	0.97	8.42
3	4.6			4.40	9.00	E	1.7	1.1	7.70 .00	0.99	8.69
4	4.9			4.48	9.38	E	8.5	8.6	8.55 .10	1.04	9.59
5	5.2			4.57	9.77	E	8.8	8.8	8.80 .00	1.07	9.87
6	5.4			4.61	10.01	E	8.8			1.07	9.87
7	6.2			4.74	10.94		9.6			1.17	10.77
8	6.5			4.77	11.27		⊥			.	⊥
9	6.5			4.77	11.27		n.s.			.	.
10	6.9			4.80	11.70						
11	7.5			4.88	12.38						
12	7.5			4.88	12.38						
13	7.6			4.90	12.50						
14	7.4			4.87	12.27						
15	8.2			5.02	13.22						
16	8.7	8.6	8.65 .10	5.11	13.76						
17	8.7	8.8	8.75 .10	5.15	13.90						
18	9.2	9.3	9.25 .01	5.28	14.53						
19	9.4	9.3	9.35 .01	5.32	14.67						
20	9.5	9.5	9.50 .00	5.35	14.85						

Leh. P.C.

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Friday October 30, 1914.

Scale 11 Series 327 Copied

MC 6305 B8 20 +45°

Alt 7.23

		Curve	Magn				Curve	Magn
1	B.			6.4	6.3	6.35 01	0.93	7.28
2	3.5			6.6	6.6	6.60 00	0.94	7.54
3	3.4			6.5	6.5	6.50 00	0.94	7.44
4	3.1			6.8	7.2	7.00 22	0.95	7.95
5	3.5			6.9	6.8	6.85 10	0.94	7.79
6	3.1			Susp.			,	,
7	4.4	4.34	8.74 E	7.1			0.98	8.68
8	4.5	4.37	8.87 E	7.6			0.98	8.58
9	4.2	4.27	8.47 E	7.5			0.97	8.47
10	4.5	4.37	8.87 E	7.6			0.98	8.58
11	4.1	4.44	9.14 E	8.1			1.02	9.12
12	4.1	4.44	9.14 E	8.3			1.03	9.33
13	5.0	4.52	9.52	8.5			1.04	9.54
14	5.1	4.54	9.64	8.6			1.05	9.65
15	5.2	4.57	9.77	8.6			1.05	9.65
16	5.5	4.63	10.13	8.8			1.07	9.87
17	5.6	4.65	10.25	9.1			1.11	10.21
18	6.3	4.75	11.05	9.7? very close to another star.			1.18	10.88?
19	6.5	4.77	11.27	10.0			1.24	11.24
20	6.6	4.78	11.38	10.1?			1.25	11.35? E
21	7.2	4.84	12.04	n.s.			,	,
22	7.3	4.85	12.15					
23	7.6	4.90	12.50					
24	7.1	4.92	12.62					
25	8.2	5.02	13.22					
26	8.6	5.10	13.70					

Ch. D. C.

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Friday October 30, 1914.

Scale R

Series 374.

MC 6305 B8 cont.

Alt. + 23

				Curve.	Magn.
27	8.6	8.7	8.65	.01	5.12	13.77
28	9.1	9.1	9.10	.00	5.24	14.34
29	9.6	9.6	9.60	.00	5.39	14.99
30	9.7	9.7	9.70	.00	5.43	15.13
31	9.7	9.8	9.75	.10	5.45	15.20
~~32~~						

Eth. F. C.

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1914phae.proj.10630

Friday October 30, 1914.

Scale a Series 324

MC 6306 Pole.

Carte Regions

~~3^h 2^m, +54° 5'~~

~~MC 6438 Carte Seq. as Ref.?~~

7^h 2^m +54.5'

MC 4442 Carte Seq. ~~Ref.?~~

5072 Mens. with Seq. for R Lyncis

5143 " " "

Relative magnitudes

O 14! 196. 199

5		
6		
8		
9		
10	4.7	
11	5.0	
12	5.4	
13	5.6	
14	5.9	
15	6.3	
16	6.6	
17	6.7	
18	7.2	
19	7.5	
20	7.7	
23	8.4	
25	8.6	8
26	8.8	8
27	9.4	9
28	9.7	9
29	9.9	9
30	n.s.	n
31	n.s.	

Sept 109

10.75

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1914phae.proj.10630

Friday October 30, 1914.

Scale u

Series 324

	MC 6306	Pole.		
			P.C.	
5			5.6 5.5 555 01	
6			6.1 6.2 615 10	
8			7.2 7.2 720 00	
9			7.8 7.8 780 00	
10	4.7		7.9 7.9 790 00	
11	5.0		8.5	
12	5.4		8.1	
13	5.6		9.3	
14	5.9		9.4 9.5 945 01	
15	6.3		t.f.	
16	6.6		n.s.	
17	6.7			
18	7.2			
19	7.5			
20	7.7			
23	8.4			
25	8.6 8.6 860 00			
26	8.8 8.7 875 01			
27	9.4 9.3 935 01			
28	9.7 9.7 970 00			
29	9.9 9.9 990 00			
30	n.s. ~~n.f.~~			
31	n.s.			

See p. 109

10.45

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1914phae.proj.10630

Monday November 2, 1914.

Scale U

Series 324.

11:30 Mc 63 076 Pole.

			Mc 6313 Fi 124	Mean	Diff	B.C.			Mc 6313 Fi 124	Mean	Diff
5						5.6	5.6	5.60 0 0	5.75	5.68 08 07	0.81
6						6.3	6.1	6.20 1 1	6.33	6.26 06 07	0.85
X											
8						7.3	7.1	7.20 1 1	7.40	7.30 10 10	0.93
9						7.8	7.9	7.85 0 1	7.80	7.82 03 07	1.01
10	4.6		4.8	4.70 1 1	4.32	7.8	7.8	7.80 0 0	7.80	7.80 00 00	1.22
11	4.9		5.0	4.95 1 0	4.60	8.6			8.6	8.60 0 0	0.95
12	5.2		5.4	5.30 1 1	4.56	8.1			8.7	8.70 0 0	1.16
13	5.6		5.7	5.65 0 1	4.65	9.3			9.2	9.25 10	1.05
14	5.9		6.2	6.05 1 2	4.60	9.4			9.4	9.40 0 0	1.25
15	6.4		6.5	6.45 0 1	4.63	9.9			9.5	9.70 2 2	1.38
16	6.6		6.6	6.60 0 0	4.80	n.s.			P	,	,
17	6.9		6.7	6.70 0 0	4.93						
18	7.4		7.3	7.35 0 1	4.71						
19	7.6		7.6	7.60 0 0	4.82						
20	7.9		7.9	7.80 1 1	4.93						
23	8.4		8.4	8.40 0 0	4.94						
25	8.6	8.6	8.60 0 0	8.6	8.60 0 0 0 0	5.27					
26	8.9	8.8	8.75 1 0	8.85	8.80 05 05	5.53					
27	9.3	9.4	9.35 1 0	9.25	9.30 05 05	5.39					
28	9.6	9.5	9.55 0 1	9.55	9.55 0 0 0 0	5.56					
29	9.9	9.6	9.65 1 0	9.75	9.70 05 05	5.96					
30	10.1	10.0	10.05 1 0	10.05 2	10.05 0 0 0 0	5.99					
31	n.s.		,	,	,						

bh. F. b.

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1914phae.proj.10630

Monday November 2, 19 14-

Scale 4

Series 324 - Copied

Mc 6 3 0 #1 Carte 2m 20 0 - 10.0°

alt. - 0°

				Curve.	Magn.	B.C.			Curve.	Magn.
0	1	4.5		4.39	8.89	7.7	8.1	7.90	1.02	8.92
0	2	4.5		4.39	8.89	8.1	8.1	8.10	1.04	9.14
0	3	4.8		4.46	9.26	8.6	8.6	8.60	1.10	9.70
0	4	4.8		4.46	9.26	8.6	8.6	8.60	1.10	9.70
0	5	5.5		4.57	10.07	t.p.	9.4	×	1.25	10.65
0	6	5.6		4.58	10.18	9.7?	poor			9?
0	7	6.2		4.65	10.85					
0	8	6.5		4.67	11.17					
0	9	6.7		4.70	11.40					
0	10	6.7		4.70	11.40					
0	11	7.2		4.78	11.98					
0	12	7.5		4.84	12.34					
0	13	7.6		4.85	12.45					
0	14	7.7		4.87	12.57					
0	15	7.7		4.87	12.57					
0	16	8.1	8.2	8.15	1.0 5.02		13.17			
0	17	8.5	8.6	8.55	1.0 5.18		13.73			
0	18	8.7	8.7	8.70	0.0 5.24		13.94			
0	19	9.1	9.2	9.15	1.0 5.52		14.67			
0	20	9.4	9.4	9.40	0.0 5.67		15.07			

leh. F.C.

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1914phae.proj.10630

Monday November 2, 1914.

Scale 10

Series 324.

mc 6308 1 X Aquilae (also ~~Cordoba~~ Dm) 20 0 + 5°0

Alt. +10

				Curve.	Magn	O.C.				Curve.	Magn
01	4.0			4.43		1.4	6.9 w.s.	7.3	7.35 01	0.94	8.29
02	4.6				9.03	8.3	8.3		8.30 00	1.06	9.36
03	4.9			4.48	9.38	8.6	8.6		8.60 00	1.10	9.70
04	5.0			4.50	9.50	8.1	8.1		8.70 00	11.2	9.82
05	5.2			4.54	9.74	8.8	8.1		8.75 01	1.13	9.88
06	5.9			4.63	10.53	9.1				1.33	11.03
07	6.5			4.67	11.17	m.s.					
08	6.7			4.71	11.41						
09	6.9			4.74	11.64						
010	7.4			4.83	12.23						
011	7.6			4.85	12.45						
012	7.8			4.92	12.72						
013	7.9			4.94	12.84						
014	8.2			5.04	13.24						
015	8.3			5.06	13.36						
016	8.1	8.6	8.65	10	5.20	2	13.85	7			
017	8.1	8.8	8.75	10	5.27		14.02				
018	8.9	8.9	8.90	00	5.34		14.24				
019	9.5	9.6	9.55	10	5.75		15.30				
020	9.7	9.7	9.70	00	5.83		15.53				

leo just

1 X Aquilae	a	4.5		4.39	8.89	8.3	7.9	8.1	8.10 22 0	1.04	9.14
	c	4.6		4.43	9.03	nearly sat.					
	b	4.1		4.44	9.14	8.6	8.6		8.60 00	1.10	9.70
	a'	4.8		4.47	9.27	8.1	8.6		8.65 10	1.11	9.76
	e	5.1		4.53	9.63	8.1	8.9		8.80 11	1.14	9.94

leh. F.b.

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Monday November 2, 1914.

Scale w Series 324. Copied

Me 6308 cont.

Alt. +.10

				Curve.	Magn.	P.C.					
d	5.1			4.53	9.63	8.9	8.8	8.85	10	1.14	9.94
h'	5.6			4.59	10.19	9.4				1.25	10.65
o'	5.5			4.57	10.07	9.4				1.25	10.65
(Vol. 63 g) = e'	5.1			4.60	10.30	9.6				1.30	10.90
h'	6.6			4.69	11.29	m.s.					
k'	6.5			4.67	11.17						
l'	6.5			4.67	11.17						
m'	6.8			4.72	11.52						
n'	7.4			4.82	12.22						
o'	7.4			4.82	12.22						
p'	7.4			4.82	12.22						
q'	7.6			4.85	12.45						
r'	8.2			5.04	13.24						
s'	8.2			5.04	13.24						
t'	8.4	8.3	8.35	01	5.09	13.44					
u'	8.5	8.4	8.45	10	5.13	13.58					
w	8.1	8.1	8.10	00	5.24	13.94					
x	9.1	9.1	9.10	00	5.46	14.56					
y	9.6	9.4	9.50	11	5.71	15.21					
Var.	5.7				4.60	10.30	8.9			1.15	10.05

bk. F. b.

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Monday, November 2, 1914.

Scale 11.

Series 324. Copied.

Mc 6309 C11

21 +15.0°

Alt. +.17

					Curve.	Magn.
1	B.					
2	3.3					
3	3.0					
4	3.6					
5	4.1					
6	4.0					
7	4.4				4.37	8.77
8	4.5				4.39	8.89
9	4.1				4.44	9.14
10	4.1				4.44	9.14
11	4.1				4.44	9.14
12	5.1				4.53	9.63
13	5.1				4.53	9.63
14	5.5				4.57	10.07
15	5.6				4.59	10.19
16	5.9				4.63	10.53
17	6.3				4.66	10.96
18	6.4				4.67	11.07
19	6.6				4.69	11.29
20	6.6				4.69	11.29
21	7.3				4.80	12.10
22	7.3	7.2	7.25	1 0	4.79	12.04
23	6.9	7.1	7.00	1 1	4.75	11.75
24	7.6	7.6	7.60	0 0	4.85	12.45
25	7.1				4.88	12.58
26	7.8				4.92	12.72

					Curve.	Magn.
B.C.						
5.1	5.6	5.65	1 0		0.79	6.44
6.1	6.2	6.15	1 0		0.83	6.98
6.6	6.6	6.60	0 0		0.86	7.46
6.6	6.8	6.70	1 1		0.87	7.57
7.3	7.4	7.35	1 0		0.94	8.29
7.3					0.93	8.23
7.6					0.97	8.57
7.7					0.98	8.68
8.2					1.05	9.25
8.3					1.06	9.36
8.6					1.10	9.70
8.7					1.13	9.83
8.6					1.10	9.70
8.7					1.13	9.83
9.1					1.18	10.28
9.5					1.27	10.77
9.9					1.39	11.29
d.						F

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1914phae.proj.10630

Monday November 2, 1914.

Scale R Series 324

MC 6309 cont.

Alt 1.17

				Owve.	Magn
27	8.1			5.00	13.10
28	8.3			5.06	13.36
29	8.4			5.11	13.51
30	8.6			5.18	13.78
31	8.8	8.8	8.80 .00	2 5.19	14.09 ~~13.99~~
32	8.8	8.1	8.75 .01	5.27	14.02
33	9.3	9.3	9.30 .00	5.60	14.90
34	9.5	9.6	9.55 .10	5.74	15.29
35	9.6	9.1	9.65 .01	5.80	15.45
36	n.s.	n.s.			
37	n.s.				

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Monday Dc November 2, 1914.

Scale "

Series 324. copied

mc 6310 D11 21 - 15°

Alt - 18

				Curve.	Magn	A.C.			Curve.	Magn
1	3.6					6.5	6.5	6.50 00	0.86	7.36
2	3.8					t.f. 6.8			.	.
3	t.f.					6.5	6.6	6.55 10	0.86	7.41
4	4.0					6.7	6.6	6.65 10	0.87	7.52
5	3.8					6.7	6.7	6.70 00	0.87	7.57
6	3.8					6.6			0.87	7.47
7	3.8					7.1			0.91	8.01
8	3.9					6.7			0.87	7.57
9	4.4			4.37	8.77	7.4			0.95	8.35
10	4.5			4.39	8.89	7.5			0.96	8.46
11	4.4			4.37	8.77	7.1			0.98	8.68
12	4.5			4.39	8.89	7.1			0.98	8.68
13	4.6			4.43	9.03	8.4			1.08	9.48
14	4.9			4.48	9.38	8.6			1.10	9.70
15	5.5	5.4	5.45 10	4.57	10.02	8.8			1.14	9.94
16	4.8 5.4	5.4	5.40 00	4.56	9.96	8.7	8.8	8.75 10	1.13	9.88
17	5.4	5.4	5.40 00	4.56	9.96	8.1			1.12	9.82
18	5.6			4.59	10.19	9.4			1.25	10.65
19	5.6			4.59	10.19	9.4			1.25	10.65
20	5.7			4.60	10.30	9.4			1.25	10.65
21	5.7			4.60	10.30	9.5			1.27	10.77
22	5.6			4.59	10.19	9.3			1.23	10.53
23	6.2	6.1	6.15 01	4.65	10.80	↓			.	.
24	5.7	5.8	5.75 10	4.61	10.36	9.5			1.27	10.77
25	6.5			4.67	11.17				.	.
26	6.6			4.69	11.29	m.s.			.	.

leh. F.b.

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1914phae.proj.10630

Monday November 2, 1914.

Scale U Series 324.

	Mc 6310		cont.	D 11
	Ut-18			
			Curve	Magn.
27	6.6		4.69	11.29
28	6.6		4.69	11.29
29	7.4		4.83	12.23
30	7.5		4.84	12.34
31	7.7		4.88	12.58
32	7.6		4.85	12.45
33	8.1		5.00	13.10
34	8.4		5.11	13.51
35	8.6		5.19	13.79
36	8.6		5.19	13.79
37	8.7	8.1	8.70 00 5.24	13.94
38	8.7	8.1	8.70 00 5.24	13.94
39	8.8	8.9	8.85 01 5.31	14.16
40	9.4	9.5	9.45 01 5.68	15.13
41	9.5	9.4	9.45 10 5.68	15.13
42	9.9?	9.9?	9.90? 00 5.97	15.87?
43	m.s.	m.s.	, .	.
44	m.s.	m.s.	, .	.

Ch. F. C.

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Monday November 2, 1914.

Scales. Series 324. Copied.

Ame 6311 10 Ks.

Ult. +.2121

			Curve.	Magn.	G.C.				
1	4.0				6.8	6.8	6.80	.00	.88	7.68
2	3.6				6.5	6.1	6.60	.11	.87	7.47
3	4.2		4.33	8.53	7.6	7.6	7.60	.00	.97	8.57
4	4.7		4.44	9.14	8.4	8.5	8.45	.01	1.08	9.53
5	5.8		4.62	10.42	9.4	9.4	9.40	.00	1.25	10.65
6	6.2		4.65	10.85						
7	6.5		4.68	11.18						
8	6.6		4.69	11.29						
9	6.6		4.69	11.29						
10	6.9		4.74	11.64						
11	7.3		4.80	12.10						
12	7.8		4.92	12.72						
13	7.8		4.92	12.72						
14	6.8		5.29	14.09						
15	8.8		5.29	14.09						
16	9.0	9.0	9.00	.00	5.43	14.43				
17	9.0	9.0	9.00	.00	5.43	14.43				
18	9.3	9.3	9.30	.00	5.60	14.90				
19	9.5	9.5	9.50	.00	5.72	15.22				
20	9.7	9.7	9.70	.00	5.84	15.54				

Remeas. June 27, 1916.

13	8.1	Previous measure of 14 certainly wrong. not even of limit.
14	8.2	
15	8.9	15 measured and entered for 14? Reject original measure of 14. L.

Feb. 5. 16.

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1914phae.proj.10630

Monday November 2, 1914

Scale R Series 324 Copied.

Mc 6312 M 15.

alt + 16

Rel. Seq. for Regular Seq. for Sp.					Curve.	Magn	O.C.			Curve.	Magn
1	4.0						1.3	1.4	7.35 1.0	0.93	8.28
2	4.8				4.62 (46)	9.26	8.3	8.4	8.35 1.0	1.07	9.42
3	5.4				4.56	9.96	8.7	8.8	8.75 1.0	1.13	9.88
4	5.4				4.56	9.96	8.7	8.8	8.75 1.0	1.13	9.88
5	5.6				4.59	10.19	8.8	9.2	9.00 2.2	1.17	10.17
6	6.3	6.2	6.25	1.0	4.66	10.91	9.9			1.39	11.29
7	6.2	5.9	6.05	2.1	4.64	10.69	9.4			1.25	10.65
8	6.4				4.67	11.07	10.0			1.44	11.44
9	6.7				4.70	11.40					
10	7.3				4.80	12.10					
11	7.6				4.86	12.46					
12	7.7				4.88	12.58					
13	7.7				4.88	12.58					
14	7.7				4.88	12.58					
15	8.4				5.12	13.52					
16	8.4	8.3	8.35	0.1	5.08	13.43					
17	8.6	8.6	8.60	0.0	5.19	13.79					
18	8.8	9.1	8.95	2.1	5.39	14.34					
19	9.4	9.6	9.50	1.1	5.72	15.22					
20	9.4	9.4	9.40	0.0	5.67	15.07 ~~15.47~~					

Ch. F. C.

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1914phae.proj.10630

Monday November 2, 1914.

Scale 1

Series 324-

Mc 63 13 Pole -

				P.C.	
5				5.8 5.7	5.75 01
6				6.1 6.5 6.4	6.33 22
8				7.4 7.4	7.40 00
9				7.8 7.8	7.80 00
10	4.8			7.8 7.8	7.80 00
11	5.0			8.6	
12	5.4			8.7	
13	5.7			9.2	
14	6.2			9.4	
15	6.5			9.5	
16	6.6			9.	
17	6.7				
18	7.3				
19	7.6				
20	7.9				
23	8.4				
25	8.6				
26	8.8	8.9	8.85 01		
27	9.3	9.2	9.25 10		
28	9.6	9.5	9.55 01		
29	9.7	9.8	9.75 10		
30	10.0	10.1?	10.0? 01		
31					

See p 114

Ch. F. b.

2:25

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1914phae.proj.10630

Tuesday November 3, 1914

Scale 1:50 MC 6211 Series 322. Order.

			MC 6282 fr 132	Mean	Diff
5					
6					
8					
9					
10	4.5		4.6	4.55 .10	4.47
11	4.8		4.7	4.75 .01	4.80
12	5.1		4.95	5.02 .08 .07	4.84
13	5.5		5.6	5.55 .10	4.75
14	5.9		6.1	6.00 .11	4.65
15	6.3		6.3	6.30 .00	4.78
16	6.6		6.5	6.55 .01	4.85
17	6.7		6.7	6.70 .00	4.93
18	7.1		7.4	7.25 .12	4.81
19	7.6		7.6	7.60 .00	4.82
20	7.7		7.7	7.70 .00	5.03
23	8.4		8.4	8.40 .00	4.94
25	8.7		8.65	8.68 .02 .03	5.19
26	9.2	9.1	9.15 .01	9.15	9.15 .00 .00	5.18
27	9.6	9.4	9.50 .11	9.35	9.42 .08 .07	5.27
28	9.7	9.6	9.65 .10	9.60	9.62 .03 .02	5.49
29	9.9	9.9	9.90 .00	9.70	9.80 .10 .10	5.86
30	10.1?	10.1	10.10? .00	f	10.10 ? .	5.94
31					

G.C.

			MC 6282 fr 132	Mean.	Diff.
5.5	5.5	5.50 .00	5.65	5.58 .08 .07	0.91
6.2	6.1	6.15 .01	6.15	6.15 .00 .00	0.96
7.2	7.1	7.15 .01	7.25	7.20 .05 .05	1.03
7.7	7.7	7.70 .00	7.65	7.68 .02 .03	1.15
7.8	7.7	7.75 .01	7.65	7.70 .05 .05	1.32
8.6			8.5	8.55 .01	1.00
8.7			8.7	8.70 .00	1.16
9.1			8.8	8.95 .12	1.35
9.5			9.3	9.40 .11	1.25
9.6			9.8	9.70 .11	1.38
f.			f	.	.

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Seares

Series 322 copied

Mc 6718 65K. Alt +.22

				Comp.	Magn	P.C.			Comp.	Magn
1	4.4			4.65	9.05	7.1	7.1	7.70	00 1.09	8.79
2	5.5			4.76	10.26	9.1	8.8	8.95	12 1.27	10.22
3	6.5	6.6	6.55	10 4.80	11.35	10.0	10.0?	10.00?	00 1.46	11.46?
4	6.6	6.6	6.60	00 4.80	11.40					
5	6.5	6.6	6.55	10 4.80	11.35					
6	7.5	7.5	7.50	00 4.88	12.38					
7	7.7			4.90	12.60					
8	8.1			4.97	13.07					
9	8.5			5.05	13.55					
10	8.7			5.09	13.79					
11	8.8	8.7	8.75	01 5.11	13.86					
12	9.2	9.2	9.20	00 5.28	14.48					
13	9.3	9.4	9.35	10 5.36	14.71					
14	9.4	9.5	9.45	01 5.40	14.85					
15	9.7	9.8	9.75	10 5.70	15.45					

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Scale 1

Series 3 2121 Copied

MC 6279 Ia 11 21 +15.0°

Alt +17

		Curve	Magn		Curve	Magn
1	3			5.1 5.1	5.70 .00	0.94 6.64
2	3.0			5.9 5.8	5.85 .10	0.94 6.79
3	3.4			6.5 6.5	6.50 .00	0.98 7.48
4	3.6			6.6 6.6	6.60 .00	0.99 7.59
5	3.7			7.2 7.1	7.15 0.1	1.03 8.18
6	4.0			7.1		1.03 8.18
7	4.0			7.5		1.07 8.57
8	4.5	4.66	9.16	7.7		1.10 8.80
9	4.7	4.69	9.39	8.3		1.17 9.47
10	4.5	4.66	9.16	8.2		1.16 9.36
11	4.7	4.69	9.39	8.7		1.24 9.94
12	4.8	4.70	9.50	8.7		1.24 9.94
13	4.9	4.71	9.61	8.7		1.24 9.94
14	4.9	4.71	9.61	8.7		1.24 9.94
15	5.5	4.75	10.25	9.3		1.34 10.64
16	5.1	4.76	10.46	9.9		1.41 11.11
17	6.1	4.77	10.87	10.0		1.46 11.46
18	5.8	4.76	10.56	10.0		1.46 11.46
19	6.6	4.80	11.40			
20	6.5	4.79	11.29			
21	6.8	4.82	11.62	bla. F.C.		
22	6.8	4.82	11.62			
23	6.9	4.83	11.73			
24	7.5	4.88	12.38			
25	7.6	4.89	12.49			
26	7.8	4.92	12.72			

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Scale 11 Series 3221 Copied

MC 6279 C11 cont.

				Curve.	Magn.
27	8.1			4.96	13.06
28	8.3			5.01	13.31
29	8.5			5.05	13.55
30	8.7			5.09	13.79
31	8.8	8.7	8.75 0.1	5.11	12.86
32	8.9	8.9	8.90 0.0	5.16	14.06
33	9.5	9.3	9.40 1.1	5.38	14.78
34	9.7	9.6	9.65 1.0	5.55	15.20
35	10.0	9.9	9.95 0.1	5.97	15.92
36	1	1	.	.	F
37					
38					

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Scale 11 Series 322 Copied

Mc 6280 Σ 11 21 – 15°

Alt. 18

				P.C.	Curve	Magn
	1	3.5		6.1 6.1 6.10 00	0.96	7.06
	2	3.6		6.5 6.5 6.50 00	0.98	7.48
	3	t.p.		6.5 6.5 6.50 00	0.98	7.48
	4	3.6		6.5 6.5 6.50 00	0.98	7.48
	5	3.6		6.6 6.6 6.60 00	0.99	7.59
floor.	6	3.9		6.6	0.99	7.59 q
	7	3.6		6.7	1.00	7.70
	8	3.7		6.7	1.00	7.70
	9	3.9		7.3 7.3 7.30 00	1.05	8.35
	10	4.0		7.2 7.4 7.30 ± 1	1.05	8.35
	11	4.2	4.63 8.83	7.6	1.09	8.69
	12	4.4	4.66 9.06	7.7	1.10	8.80
	13	4.4	4.66 9.06	8.3	1.17	9.47
	14	4.7	4.69 9.39	8.6	1.23	9.83
	15	4.8	4.70 9.50	8.6	1.23	9.83
	16	4.8	4.70 9.50	9.1	1.29	10.39
	17	4.9	4.71 9.61	9.4	1.35	10.75
	18	5.4	4.75 10.15	9.4	1.35	10.75
	19	5.4	4.75 10.15	9.5? floor.	1.36	10.86? q
	20	5.4	4.75 10.15	9.5? "	1.36	10.86?
	21	5.6	4.76 10.36	9.8	1.43	11.23
	22	5.5	4.76 10.26	9.7 floor	1.41	11.11 q
	23	5.9	4.77 10.67	~~10.0?~~ t.p. for mean.		q
	24	5.6	4.76 10.36	‡.		F
	25	6.3	4.78 11.08	‡.		F
	26	6.3	4.78 11.08			

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Scale 11

Series 3221 copied.

MC 6280 D11 cont

alt - 18.

			Curve.	Magn.
27	6.5		4.79	11.29
28	6.6		4.80	11.40
29	6.7		4.81	11.51
30	7.4		4.87	12.27
31	7.7		4.90	12.60
32	7.7		4.90	12.60
33	7.6		4.89	12.49
34	8.3		5.01	13.31
35	8.6		5.08	13.68
36	8.6		5.08	13.68
37	8.7	8.7	870 00 5.09	13.79
38	8.7	8.8	8.75 10 5.11	13.86
39	8.9	9.1	900 11 5.19	14.19
40	9.4	9.4	940 00 5.38	14.78
41	9.6	9.6	960 00 5.53	15.13
42	7.	7.	. .	7.
43	7.	7.	. .	7.

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Scale U Series 322 -

Mc 6381 21. 21 - 150 (Galvin 1904)

Alt. -18

				Curve.	Magn.	B.C.			Curve.	Magn.
1	4.3			4.63	8.93	1.6	1.5	7.55 01	1.08	8.63
2	4.2			4.62	8.82	1.6	1.7	7.65 01	1.09	8.74
3	4.6			4.68	9.28	8.4	8.4	8.40 00	1.19	9.59
4	4.8	4.7	4.75 01	4.70	9.45	8.6	8.1	8.65 01	1.22	9.87
5	4.7	4.8	4.75 10	4.70	9.45	8.6	8.1	8.65 01	1.22	9.87
6	5.4			4.75	10.15	9.2			1.32	10.52
7	5.6			4.76	10.36	9.1			1.40	11.10
8	6.4			4.78	11.18	9.1	10.0		1.46	11.46
9	6.6			4.80	11.40					
10	6.7			4.81	11.51					
11	7.2			4.85	12.05					
12	7.4			4.87	12.27					
13	7.4			4.87	12.27					
14	7.6			4.89	12.49					
15	7.9			4.96 4	12.84 4					
16	8.4	8.4	8.40 00	5.04	13.44					
17	8.6	8.6	8.60 00	5.07	13.67					
18	8.7	8.8	8.75 10	5.11	13.86					
19	9.1	8.8	8.95 12	5.17	14.12					
20	9.4	9.4	9.40 00	5.38	14.78					

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Series

Series 322 -

Mc 62821 Pole -

				O.C.		
5				5.6	5.1	5.65 01
6				6.2	6.1	6.15 01
8				7.2	7.3	7.25 01
9				7.1	7.6	7.65 10
10	4.6			7.1	7.6	7.65 10
11	4.7			8.5		
12	4.9	5.0	4.95 10	8.7		
13	5.6			8.8		
14	6.1			9.3		
15	6.3			9.8		
16	6.5			±		
17	6.7			mis.		
18	7.4					
19	7.6					
20	7.7					
23	8.4					
25	8.6	8.7	8.65 01			
26	9.2	9.1	9.15 01			
27	9.4	9.3	9.35 01			
(w.s. mean) 28	9.6	9.6	9.60 00			
29	9.1	9.1	9.70 00			
30	±	±				
31						

See p. 125

Ch. F.C.

2-

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Thursday November 5, 1914

Scale 11

10:5945

Mc 6282

Series 321

Orle.

			mc 6288 p.142	Mean.	Diff	B.C.			mc 6285 p.142	Mean	Diff
5						5.1	5.1	5.70 00	5.50	5.60	10 10 0.89
6						6.1	6.1	6.10 00	6.20	6.15	05 05 0.96
8						6.8	6.9	6.85 01	7.45	7.15	30 30 1.08
9						7.6	7.7	7.65 01	8.15	7.90	25 25 0.93
10	4.6		4.5	4.55	01 4.47	7.7	7.7	7.70 00	8.20	7.95	25 25 1.07
11	4.9		4.8	4.85	10 4.70	8.6			8.8	8.70	1 1 0.85
12	5.0		5.0	5.00	00 4.86	8.6			9.4	9.00	44 0.86
13	5.6		5.5	5.55	01 4.75	8.8			9.5	9.15	4 3 1.15
14	6.1		5.6	5.85	32 4.80	9.2			9.9	9.55	43 1.10
15	6.3		6.2	6.25	10 4.83	9.7			n.s	9.70	a . 1.38
16	6.6		6.5	6.55	01 4.85	m.s				,	,
17	6.7		6.7	6.70	00 4.93						
18	7.4		7.3	7.35	01 4.71						
19	7.5		7.6	7.55	10 4.87						
20	7.7		7.95	7.82	12 13 4.91						
23	8.4		8.55	8.48	08 07 4.86						
25	8.6		8.70	8.65	05 05 5.22						
26	9.1	9.1	9.10	00 9.40	9.25	15 15 5.08					
27	9.3	9.2	9.25	10 9.65	9.45	20 20 5.24					
28	9.6	9.5	9.55	01 ?	9.55	a . 5.56					
29	9.7	9.6	9.65	10 ,	9.65	a . 6.01					
30	10.1	10.1	10.10	00 ,	10.10	a . 5.94					
31	m.s.	m.s.	,		,	,					

bw. F.6.

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Scale 11 Series 322. Copied

Mc 6283 M 15.

Alt + 16

Ref. Leg. for Centre of fc.					Curve.	Magn	P.C.				Curve	Magn
	1	3.8					6.8	6.7	6 75	01	0.95	7.70
	2	4.8			4.70	9.50	8.1	7.9	8 00	11	1.00	9.00
	3	5.3			4.77	10.37	8.7	8.7	8 70	00	1.06	9.76
	4	5.3			4.77	10.37	8.8	8.8	8 80	00	1.08	9.88
	5	5.3			4.77	10.37	8.7	8.8	8 75	10	1.07	9.82
	6	5.9			4.81	10.71	9.5				1.23	10.73
	7	5.7			4.80	10.50	9.6				1.24	10.84
	8	6.4			4.81	11.21						
	9	6.6			4.81	11.41						
	10	7.2			4.82	12.02						
	11	7.4			4.83	12.23						
	12	7.6			4.84	12.44						
	13	7.6			4.84	12.44						
	14	8.2			4.94	13.14						
	15	8.5			5.01	13.51						
	16	8.4	8.4	8 40 00	4.97	13.37						
	17	8.1	8.1	8 70 00	5.08	13.78						
	18	9.1	9.1	9 10 00	5.27	14.37						
	19	9.2	9.1	9 15 01	5.31	14.46						
	20	9.4	9.4	9 40 00	5.46	14.86						

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MC 6284

S Cephei.

21 30 +77 5

Alt +13

				Curve	Magn				Curve	Magn
a	3.7					1.4	6.1	7 05	4 3	0.97	8.02
d	4.5			4.64	9.14	7.6	7.1	7 65	0 1	0.99	8.64
e	4.6			4.67	9.27	7.8	8.2	8 00	2 2	1.00	9.00
c	4.6			4.67	9.27	8.5	8.5	8 50	0 0	1.05	9.55
b	4.5			4.64	9.14	8.1	7.1	8.1	7 97	3 1	1.00	8.97
f	4.8			4.70	9.50	8.6				1.06	9.66
h	5.9			4.81	10.71	9.7				1.26	10.96
g	6.3			4.82	11.12	F				,	F
k	6.6			4.82	11.42						
l	6.7			4.82	11.52						
m	7.2			4.83	12.03						
n	7.5			4.84	12.37						
n'	7.8			4.86	12.66						
o	8.4			4.97	13.37						
q	8.4			4.97	13.37						
q'	8.6			5.05	13.65						
r	9.2	8.9	9 05	2 1	5.24	14.29					
s	9.4	9.4	9 40	0 0	5.46	14.86					
t	9.6	9.5	9 55	0 1	5.60	15.15					
u	9.6	9.6	9 60	0 0	5.64	15.24					
w	9.8	9.8	9 80	0 0	5.99	15.79					
Var	F.					F					

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Thursday) November 5, 1914.

Scalew

Series 322 Cepheid

MC 6285 B9 22h 40 +45°

			Curve	Magn	O.C.			Curve	Magn
1	B.				5.6	5.5	5.55 0.1	0.96	6.51
2	B.				5.7	5.8	5.75 1.0	0.95	6.70
3	4.0				5.6	5.6	5.60 0.0	0.96	6.56
4	B.				5.7	6.1	5.90 2.2	0.95	6.85
5	3.4				6.1	6.5	6.30 2.2	0.95	7.25
6	3.3				6.4			0.94	7.34
7	3.6				6.5			0.95	7.45
8	3.7				6.7			0.96	7.66
9	3.6				6.7			0.96	7.66
10	3.8				7.5			0.99	8.49
11	.				.			.	.
12	4.0				7.5			0.99	8.49
13	4.5	4.63	9.13		7.8			1.00	8.80
14	4.4	4.60	9.00		8.3			1.03	9.33
15	4.8	4.70	9.50		8.5			1.05	9.55
16	4.8	4.70	9.50		8.5			1.05	9.55
17	4.8	4.70	9.50		8.7			1.07	9.77
18	5.1	4.75	9.85		8.6			1.06	9.66
19	5.1	4.75	9.85		9.1			1.14	10.24
20	5.3	4.77	10.07		9.1			1.14	10.24
21	5.8	4.80	10.60		9.5			1.23	10.73
22	5.9	4.81	10.71		9.6			1.24	10.84
23	6.4	4.82	11.22		9.9			1.30	11.20
24	6.1	4.82	11.52		?			.	.
25	~~7.2~~	6.7	6.8	6.75 1.0	4.82	11.57	m.s.	.	.
26	~~6.6~~	~~7.3~~	7.1	7.20 1.1	4.83	12.03			

(? = unclear)

double.

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Thursday November 5, 1914.

Scale u Series 322.

MC 6285 cont.

					Curve.	Magn
29	7.4				4.84	12.24
28	7.6				4.85	12.45
29	7.7				4.85	12.55
30	8.1				4.92	13.02
30a	8.4				4.97	13.37
31	8.4				4.97	13.37
32	8.1	8.6	8.65	10	5.05	13.70
33	8.1	8.1	8.70	00	5.07	13.77
34	9.3	9.2	9.25	10	5.35	14.60
35	9.4	9.4	9.40	00	5.46	14.86
36	9.9	9.1	9.80	11	5.99	15.79
37						

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Scale

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Mc 6286 C12 23 + 15°

Alt. +17

		Curve.	Magn.
1	B.		
2	B.		
3	B.		
4	3.5		
5	3.5		
6	3.7		
7	3.7		
8	3.8		
9	4.3	4.57	8.87
10	4.0	.	.
11	4.4	4.60	9.00
12	4.5	4.63	9.13
13	4.7	4.68	9.38
14	4.6	4.66	9.26
15	4.6	4.66	9.26
16	5.1	4.75	9.85
17	5.5	4.79	10.29
17a	5.6	4.80	10.40
18	6.1	4.81	10.91
19	t.p.	.	gr
19a	6.4	4.82	11.22
20	6.6	4.82	11.42
21	7.1	4.82	11.92
21a	7.2	4.83	12.03
22	7.5	4.84	12.34
23	7.6	4.84	12.44

B.C.			Curve.	Magn.
5.1	4.9	5.00 ± 1	0.98	5.97
5.5	5.6?	5.85 ± 0	0.96	6.51 gr
5.6	5.7	5.65 ± 0	0.95	6.60
6.2	6.1	6.15 ± 0	0.94	7.09
6.4	6.4	6.40 ± 0	0.94	7.34
6.7			0.96	7.66
6.7			0.96	7.66
t.p.			.	gr
7.6			0.99	8.59
7.6	7.8	7.80 ± 1	1.00	8.70
7.9			1.00	8.90
8.4			1.04	9.44
8.6			1.06	9.66
8.7			1.06	9.76
8.6			1.06	9.66
9.5			1.23	10.73
9.7			1.25	10.95
t.p.			.	gr
9.8			1.28	11.08
t.p.			.	gr
±			.	±

Ch. F.C.

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Thursday November 5, 1914.

Scale U Series 3212.

Mc 6286 C12

Alt. + 19

						Curve	Magn
poor.	24	8.1	8.1	8.10	.00	4.92	13.02 pf
"	25	7.7	7.8	7.75	.10	4.86 4.88	12.61 pf
	26	7.8	8.2	8.00	.22	4.89 4.88	12.89
	27	8.6	8.6	8.60	.00	5.04 4.96	13.64
	28	8.4	8.4	8.40	.00	4.97	13.37
	29	9.1	9.2	9.15	.10	5.31	14.46
poor.	30	9.4?	9.4?	9.40	.00	5.46	14.86 pf
	31	9.5	9.6	9.55	.10	5.58	15.13
	32	n.s.					

The images on this plate are elongated and do not compare well with the scale. In case of "t.p." they have been too elongated to measure.

Ch. F.C.

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Thursday November 5, 1914-

Scale U Series 3221 Copied

MC 6287 D 12s 23 0 - 15.0

Diff. -18

			Curve	Magn	P.C.			Curve	Magn
1	3.6				6.5	6.5	6.50 00	0.95	7.45
2	3.6				6.3	6.1	6.20 11	0.94	7.14
3	3.1				7.1	6.7	6.90 22	0.96	7.86
4	3.9				7.2	7.3	7.25 01	0.98	8.23
5	3.1				7.3	7.1	7.20 11	0.98	8.18
6	4.1				7.5			0.99	8.49
7	4.4		4.60	9.00	7.6			0.99	8.59
8	4.3		4.57	8.87	7.7			1.00	8.70
9	4.5		4.63	9.13	8.4			1.04	9.44
10	4.6		4.67	9.26	8.6			1.05	9.65
11	4.6		4.67	9.26	8.6			1.05	9.65
12	4.6		4.66	9.26	8.7			1.06	9.76
13	4.7		4.68	9.38	8.6?	prov.		1.05	9.65?
14	5.2		4.76	9.96	8.8			1.08	9.88
15	5.2		4.76	9.96	9.4			1.20	10.60
16	5.3		4.77	10.07	9.4			1.20	10.60
16a	5.6		4.80	10.40	9.5			1.22	10.72
17	6.1		4.81	10.91	t.p.			.	.
18	6.1		4.81	10.91	9.9?			1.30	11.20?
19	6.1		4.81	10.91					
20	6.3		4.82	11.12					
21	6.4		4.82	11.22					
22	6.5		4.82	11.32					
23	7.1		4.82	11.92					
24	7.4		4.84	12.24					
25	7.4	7.5 7.45 01	4.84	12.29					

ch. L.

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Thursday November 5, 1914.

Scale U — Series 322. Copied

Mc 6784 — D. 12 — cont.

				Curve.	Magn.
26	7.2	7.4	7.30 1.1	4.83	12.13
27	7.5			4.84	12.34
27a ~~28~~	7.7			4.85	12.55
28	8.1			4.92	13.02
29	8.1			4.92	13.02
30	8.4			4.97	13.37
31	8.6	8.6	8.60 0.0	5.04	13.64
32	8.7	8.7	8.70 0.0	5.07	13.77
33	8.6	8.7	8.65 0.1	5.05	13.70
34	9.1	9.2	9.15 1.0	5.31	14.46
35	9.3	9.1	9.20 1.1	5.33	14.53
36	~~def.~~ t.p.			.	.
37	~~no~~ def.			.	.
38	n.s.			.	.
39	n.s.			.	.

Ch. L.

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Thursday November 5, 1914.

Scale R

Series 3222.

Mc 6788 Pole.

				Q.C.	
5			5.5	5.5	5.50 .00
6			6.3	6.1	6.20 .11
8			7.4	7.5	7.45 .01
9			8.2	8.1	8.15 .01
10	4.5		8.2	8.2	8.20 .00
11	4.8		8.8		
12	5.0		9.4		
13	5.5		9.5		
14	5.6		9.9		
15	6.2		n.s.		
16	6.5				
17	6.7				
18	7.3				
19	7.6				
20	7.9	8.0	7.95 .10		
23	8.5	8.6	8.55 .10		
25	8.7	8.7	8.70 .00		
26	9.4	9.4	9.40 .00		
27	9.6	9.7	9.65 .01		
28	f.	f.			
29	n.s.				
30	n.s.				
31					

Scale 138

12:30

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1914phae.proj.10630

Friday November 6, 1914.

Scale 12:10 — Series 353. — mc6646 — Pole

			mc 6651 p.149	P.C.			mc 6651 p.149
5				5.8	5.8	5.80 00	5.50
6				6.6	6.6	6.60 00	5.85
8				8.2	8.3	8.25 01	7.35
9				8.5	8.6	8.55 10	7.65
10	5.3		.46	8.6	8.6	8.60 00	8.10
11	5.6		.50	9.1			8.6
12	5.1		.55	9.5			8.7
13	6.4		.56	9.8			9
14	6.7	6.6	6.65 10 .59	m.s.			9.5
15	6.1		.61				9
16	7.2	7.3	7.25 01 .65				m.s
17	7.4	7.5	7.45 01 .67				
18	7.1		.73				
19	8.2		.76				
20	8.4	8.5	8.45 01 .77				
23	8.7	8.1	8.70 00 .84				
25	9.3	9.2	9.25 10 8.70				
26	9.4	9.5	9.45 01 9.10				
25	9.1	9.1	9.70 00 9.40				
28	↓	↓	9.70				
29	m.s.		9.90				
30							
31							

Delay reductions. 14.8.26. Nov 10—

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Friday November 6, 1914.

Scale W. Series 3.53.

	Mc 6647	Carlé	23 0 +10.0
			A.C.
1	3.4		6.1 6.2
2	4.9		8.5 8.4
3	5.5		8.1 8.1
4	5.9		9.6 9.1
5	6.1		9.1 9.1
6	6.5		m.s.
7	6.1		
8	7.3		
9	7.6		
10	8.2		
11	8.2		
12	8.6	8.6	
13	8.1	8.1	
14	8.8	8.1	
15	9.4	9.2	
16	9.1	9.1	

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Friday November 6, 1914 –

Scale W

Series 353

	Mc 6648	.23 0	+25 0 Carte.	
			P.C	
1	4.5		7.8 7.8	
2	4.8		8.6 8.6	
3	5.2		9.3 9.1 poor.	
4	5.6		9.4 9.3	
5	6.4		9.9 9.9	
6	6.5		F.	
7	6.9			
8	7.5			
9	7.5			
we unit 10	7.7			
11	7.8 7.7			
12	8.5 8.4			
13	8.8 9.1			
14	8.9 8.9			
15	9.5 9.5			

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Friday November 6, 1914.

Scale

Series 353.

	Mc 6649	D 12	23 − 15°
			O.C.
1	5.6 5.6		9.4 9.21
2	4.6 4.5		8.1 7.8
3	5.4 5.5		9.2 9.1
4	~~5.9 4.6~~ 6.1		8.1 9.6 9.1
5	5.1 5.1		8.1 ? from 8.1
6	5.9		9.5
7	6.1		9.9?
8	6.5		t.p.
9	6.6		
10	6.6		
11	6.9 6.8		
12	6.7 6.6		
13	6.7 6.6		
14	7.5 7.5		
15	7.4 7.1		
16	7.6		
16a	8.1		
17	8.4		
18	8.4		
19	8.4		
20	8.5		
21	8.6		
22	8.1		
23	9.1		
24	9.2		
25	9.4 9.4		

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Friday November 6, 1914 -

Scale U

Series 353.

	mc 66 49	☆ 1.2	23 — 15°
26	9.4	9.4	
27	9.5	9.5 ~~9.4~~ 9.4	
27a	~~28~~ 9.1	9.6	
28	~~☆9.9~~?	9.8	
29	n.s.	n.s.	

This plate does not show faint stars and images of faint stars and prismatic companions are poor, making comparison with scale difficult.

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Friday November 6, 1914.

Scale 4

Series 353

	Mc 6650	Carte	23 0 + 39.5
			C.C.
1	3.5		6.5 6.5
2	4.6		7.5 7.5
3	5.4		8.6 8.6
4	6.4		10.0 10.0
5	6.8		n.s.
6	7.4		
7	7.6		
8	7.8		
9	8.5		
10	8.7		
11	8.9 9.1		
12	9.4 9.4		
13	9.5 9.5		
14	9.5 9.6		
15	9.6 9.6		

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Friday November 6, 1914.

Scale 11 Series 353.

Mc 6651 Pole.

				P.C.
5				5.5 5.5 5.50 00
6				5.8 5.9 5.85 01
8				7.3 7.4 7.35 10
9				7.6 7.1 7.65 01
10	4.6			~~7.7~~ 8.1 8.1 8.10 00
11	5.0			8.6
12	5.5			8.1
13	5.6			t.p.
14	5.9			9.5
15	6.1			t.p.
16	6.5			m.s.
17	6.1			
18	7.3			
19	7.6			
20	7.1			
23	8.4			
25	8.1	8.1	8.70 00	
26	9.1	9.1	9.10 00	
27	9.4	9.4	9.40 00	
28	9.1	9.1	9.70 00	
29	9.9	9.9	9.90 00	
30	~~7.~~			
31				

See p 143

1:45

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Wednesday November 11. 1914.

Scale P

Series 47.

12:15 H 1221 Pole Without Wire Screen.

H 1223 p 153

	sc.1	sc.2	sc.2			
14	3.8 4.1				5.30	-1.50
19	6.0 6.3	6.4		6.20 2 2	7.50	-1.30
20	6.1 6.4	6.4		6.25 1 2	7.65	-1.40
outside limit. 22						
23	6.5 6.8	7.1		6.80 3 3	8.45	-1.65
24		7.2			8.55	-1.35
25		7.5			8.70	-1.20
26		7.6			8.65	-1.05
27		8.5	8.4	8.45 1 0	9.30	-0.85
28		8.5	8.6	8.55 1 0	9.60	-1.05
29		9.3	9.4	9.35 1 0		
30		9.9?	9.9	9.90 0 0		
31		?	?			
11 r	5.8 6.1	6.1		5.95 2 1	7.3	-1.35
12 r	6.2 6.5	6.4		6.30 1 1	7.6	-1.30
5 s	3.2 3.5	3.			5.15	-1.95
7 s	6.0 6.3	6.4		6.20 2 2	7.35	-1.15
8 s		7.1			8.70	-1.00
9 s		7.1			8.80	-1.10
10 s		8.3			9.70	-1.40
11 s		8.3	8.2	8.25 1 0	9.35	-1.10
12 s		8.5	8.5	8.50 0 0		
13 s		def.	def.			
14 s		8.6	8.7	8.65 0 1		
15 s		?	?			
16 s		n.s.	n.s.			

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Wednesday November 11. 1914.

Scale P. Series 47.

		24 12 21		cont.		
		sc.1	sc.2			
outside limit	f	.	.			
" "	g	.	.			
" "	h	.	.			
	k	6.7	6.6	6.50	7.9	- 1.40
	m	6.5	6.6	6.40	7.9	- 1.50
	o	.	.			
" "	p	.	.			
" "	q	.				
	r	7.9 8.2?				
" "	s	.	.			
" "	t	.	.			

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Wednesday November 11, 1914-

Scale 4 B

Series 47.

H 12 21 22 Pole

		sc.1	sc.2	sc.2
	14	6.6 (63)		6.6
	15		7.5	7.5
	19		8.9	8.7
	20		9.1	8.9
outside limit.	22		.	.
	23		9.7	9.5
	24		.	.
	25		.	.
	26		n.s.	
	27			
	28			
	29			
	30			
	31			
outside limit.	7r		~~n.s.~~	.
	11r		8.6	8.7
	12r		9.1	9.4
	5p	6.5 (67)		6.4
not comp. with scale.	7s		8.5	8.4
	8s		n.s.	
	9s			
	10s			
	11s		n.s.	
l	12s	s	9.4	9.5
m	13s		9.7	9.8
outside limit. o	14s		.	
fr				
r			n.s.	

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Wednesday November 11, 1914.

Scale X P

Series 47.

Ht 1 2 2 3 Pole - with wire screen 17 to inch.

		sc.1	sc.2	sc.2	
	№ 14	5.57 5		5.4	5.30 .11
outside limit.	15			.	.
	19		7.5	7.5	7.50 .00
(86 = W.S.)	20		7.6	7.7 8.4	7.65 .01
outside limit	22		.	.	.
	23		8.5	8.4	8.45 .10
	24		8.6	8.5	8.55 .01
	25		8.7	8.7	8.70 .00
	26		8.7	8.6	8.65 .10
	27		9.3	9.3	9.30 .00
	28		9.5	9.1	9.60 .11
	29		f.	f.	f.
	30		m.s.		.
	11R		7.3		
	12R		7.6		
	5R	5.50 3		5.3	5.15 .21
	7R	4	7.4	7.3	7.35 .01
	8R		8.6	8.8	8.70 .11
	9R		8.7	8.9	8.80 .11
w. unit.	10R		9.7	9 8.7	9.70 .00
	11R		9.2	9.5	9.35 .21
	12R		f.		.
	13R		f.		
	m		7.9		
	l		7.9		

f, g, h, of g - r, s, to outside limit

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Wednesday November 11, 1914

Scale P

Series 48.

H 12 25 ~~with four~~ Pole –

1st exposure.

2nd expr.

	sc.1	sc.2	sc.2		H 1227 p. 157	Mean – 1226	sc.2	H 1227 p. 157
14	5.6 (5.3)		5.4	5.35 .10	.	5.35 a . ~~6.70 1.35~~ 6.55-1.20	8.2	
outside limit 15	.	.		.	.	. .		
19		7.4			7.5	7.45 .01	8.80-1.35	m.s.
20		7.6			7.6	7.60 .00	9.05-1.45	m.s.
22		7.8			.	7.80 a . .		
Imm. not comp. 23		.			7.9	7.90 . a	9.65-1.75	
24		8.5	8.5	8.50 .00	8.40	8.45 .05 .05	.	
25		8.6	8.6	8.60 .00	8.60	8.60 .000	.	
26		8.6	8.7	8.65 .01	8.70	8.68 .03 .02	.	
27		9.1	9.2	9.15 .10	9.80	9.48 .33 .32	.	
28		def.	def.	.	10.00 ?	10.10 ~~10.2~~ a	.	
29		‡		.	.	‡ a	.	
30		m.s.		.	.	.	.	
7r	4.6 (4.3)		4.6	4.45 .12	5.30	4.88 .43 .42 6.30 -1.47	7.6	
11r	6.9 (6.6)		7.1	6.85 .23	7.00	6.92 .07 .08 8.60 -1.68	9.1	
12r	.	7.1	7.1	7.70 .00	7.60	7.65 .05 .05 8.90 -1.25	m.s.	
5s	5.3 (5.0)		5.1	5.05 .01	5.30	5.18 .13 .12 6.75 -1.27	7.8	
7s		7.3			7.10	7.20 .10 .10 8.60 -1.40	9.9	
8s		8.9			8.75	8.82 .08 .07 10.0 -1.18	m.s.	
9s		8.8	8.7	8.75 .01	8.85	8.80 .05 .05		
10s		9.1	9.6	9.65 .10	.	9.65 a .	.	
11s		9.5	9.6	9.55 .10	9.40	9.48 .07 .08	.	
12s		9.1	9.1	9.70 .00	9.80	9.75 .05 .05	.	
13s		9.6	9.1	9.65 .01	?	9.65 a ‡	.	
14s		‡	‡	‡	.	‡	.	
15s		m.s.		.	.	.	.	

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Wednesday, November 11, 1914.

Scale P

Series 48

Vt 1225 Pole -

	sc.2	sc.2		H 1227 p.187	H 1226
l	1.1	1.1	770 ·00	7.7	7.70 00 00 9.40 - 1.70
m	1.1	1.9	780 ·11	.	7.80 a . 9.45 -1.65
r	9.4	9.2	930 ·11	9.5	9.40 10 10 20 20 F

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Wednesday November 11, 1914.

Scale 8

Series 48

		~~Aug 8~~ 12 216			Pole	With wire screen.
		sc.1	sc.2	sc.2		2nd Exposure
		1st Exposure.				sc.2
	14	6.4 6.7	6.7		6.55 2.1 ~~6.70 00~~	n.s.
outside limit	15	.	.		.	
	19		8.7	8.9	8.80 1.1	n.s.
	20		8.9	9.2	9.05 1.2	
" "	22		.	.	.	
	23		9.6	9.7	9.65 .01	
scratched.	24		.	.	.	
	25		n.s.	n.s.	.	
	1N	6.1 6.4	6.5		6.30 2.2 ~~6.45 .01~~	9.2
	11N		8.5	8.7	8.60 1.1	n.s.
	12N		8.9	8.9	8.90 .00	
	5S	6.3 6.6	6.6		6.45 1.2 ~~6.60 .00~~	9.2
	7S		8.6	8.6	8.60 .00	
	8S		10.0	n.s.		
	9S		n.s.		.	
	10S		n.s.		.	
	11S		n.s.		.	
	12S		n.s.		.	
	13S		n.s.		.	
	14S					
	l		9.4	9.4	9.40 .00	
	m		9.6	9.3	9.45 2.1	
	n		4.		.	

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Scale P Hb 1227 Pole Series 48

Without wire screen.

		1st exposure. sc.1	1st exposure. sc.2	1st exposure. sc.2		2nd exposure. sc.2
outside limit	14	.				
" "	15	.				
	19		7.5			
	20		7.6			
" "	22		.			
	23		7.9			
	24		8.4	8.4	8.40 00	
	25		8.6	8.6	8.60 00	
	26		8.7	8.7	8.70 00	
	27		9.8	9.8 8.7	9.80 00	
	28		10.0?	10.0	10.0? 00	
	7r	5.5 5.7		5.4	5.30 11	7.1
	11r		7.1	6.9	7.00 11	9.6
	12r		7.6	7.6	7.60 00	
	5R	5.5 5.7		5.4	5.30 11	7.1
	7R	4.3 7.10		7.2	7.10 11	9.9
	8R		8.7	8.8	8.75 10	
	9R		8.9	8.8	8.85 10	
outside limit	10R		.		.	
	11R		9.4	9.4	9.40 00	
	12R		9.1	9.9	9.80 11	
	13R		1.	1	.	
	l		7.1			
outside limit	m	.				
	n		9.5			

2:15

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Thursday November 12, 1914

Scale P.

Series 44.

9.40

Jt 1194 Pole

		1st exposure						2nd exposure						
		sc.1	sc.2	sc.3		H 1200 p.162	Mean Diff	sc.1	sc.2			H 1200 p.162	Mean Resid
	14	4.4	4.4		4.25 ± 2		4.25 6.40	6.5	6.6	6.40 ± 2	4.25		6.40 a.
outside limit	15												
	19	5.6	5.5		5.40 ± 1	5.60	5.50 6.92		8.3		4.42	8.3	8.30 0 0
	20	6.3	6.3		6.15 ± 1	5.95	6.05 6.68		8.6		4.13	8.5	8.55 0 1
	23	6.7	6.1		6.55 ± 1	6.45	6.50 6.84		9.3		4.49	8.7	8.7 a
	24	6.9	7.3		6.95 ± 3	6.65	6.80 6.84		9.5		4.47	9.2	9.25 1 0
	25		7.3			7.2	7.25 6.62		9.6?		4.27	9.6	9.6 a.
	26		7.8			7.7	7.75 6.58		m.s				
	27		7.9	7.9	7.90 0 0	8.1	8.00 6.69						
	28		8.6	8.4	8.50 1 1	8.40	8.45 6.66						
	29		8.1	8.8 8.4	8.75 1 0	8.70	8.72 6.94						
	30		9.4	9.4	9.40 0 0	9.10	9.25 6.79						
	31		9.4	9.4	9.40 0 0	9.45	9.42 6.80						
defects near.	32		9.8?	9.8?	9.80 0 0	9.70	9.75 6.87						
	33		m.s.										
	7m	3.9	4.0		3.80 ± 2	4.00	3.90 6.80	6.5	6.6	6.35 ± 1	4.35	6.35	6.35 0 0 0
	11m	6.4	6.4		6.25 ± 2	6.20	6.22 6.75		8.1		4.27	8.7	8.70 0 0
	12m	6.8	6.7		6.60 ± 1	6.50	6.55 6.93		9.5		3.88	9.7	9.60 1 1
	5a	4.5	4.3		4.25 0 1	4.10	4.18 6.63	6.3	6.6	6.45 ± 2	4.36	6.40	6.42 0 3 0 2
	7a	5.8	5.5		5.55 0 1	5.85	5.70 6.75		8.3		4.15	8.3	8.30 0 0
	8a		7.6			7.6	7.60 6.60		m.s		4.50	9.7	9.7 a
	9a		7.8			7.7	7.75 6.72						
	10a		8.4			8.4	8.40 6.62						
	11a		8.5			8.5	8.50 6.55						
	12a		8.5			8.4	8.45 6.66						

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Thursday November 12, 1914.

Scale P

Series 44

H 1194 Pole cont.

				H 1200 p. 162			Diff
	sc 1	sc 2					
13S	8.6	8.6	8.60 00	8.5	8.55	05 05	6.68
14S	8.9	9.1	9.00 11	8.9	8.95	05 05	6.80
15S f	9.6 m.s.	9.6 m.s.	9.60 00	9.6	9.60	00 00	6.82
16 S0 l f	6.6			6.65	6.65	a	
m	7.1	7.+7.5	7.33 12		7.33	a	
S	f.			f			
outside limit	f						

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Thursday November 12, 1914.

Scale P

Series 44.

H 1196 C 12 23 +15

1st exposure

2nd exposure -

	sc.1	sc.2	sc.2		Curve	Magn	sc.1	sc.2	sc.2		Curve	Magn
18	4.4 (41)	4.3		4.20 1 1	6.44	10.64	6.6 (63)	6.1		6.50 2 2	4.23	10.73
19a	4.5 (47)	4.5		4.35 2 1	6.84 (49)	10.84		7.3	7.2	7.25 1 0	4.20	11.45
20	4.6 (43)	4.5		4.40 1 1	6.50	10.90		7.6	7.5	7.55 0 1	4.19	11.74
21	5.1 (48)	4.8 (45)	4.5 4.5	4.58 2 1 1	6.55	11.13		7.8	7.1	7.75 0 1	4.18	11.93
23	5.1 (54)	5.6		5.50 1 1	6.73	12.23		8.6	8.6	8.60 0 0	4.15 ?	12.75
24	6.4 (61)	6.4		6.25 1 2	6.82	13.06		8.9	8.9	8.90 0 0	4.13	13.03
25	6.4 (61)	6.3		6.20 1 1	6.88	13.01		8.9	8.8	8.85 1 0	4.13	12.98
27	7.	7.2			6.75	13.95		n.s.				
28	6.5 (62)	6.6		6.40 2 2	6.81	13.21						
29		7.5	7.5	7.50 0 0	6.72	14.22		n.s.				
30		7.9	7.8	7.85 1 0	6.70	14.55						
31		8.5	8.5	8.50 0 0	6.70	15.20						
33		9.2	9.1	9.15 0 1	6.77	15.92						
34		9.8	9.1	9.75 0 1	6.87	16.62						

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Thursday November 12, 1914.

Scale P. Series 44

H 1197 C1 1 + 15°

1st exposure. 2nd exp.

	Sc 1	Sc 2	Sc 3		Curve	Magn	Sc 1	Sc 2		Mean	Curve	
11	3.5 (3.7)	B.					5.6 (5.3)	5.6		545 ± 2	.	.
19	5.6 (5.3)	5.5		540 ± 1	671	12.11		7.8			417	11.97
21	6.4 (6.1)	6.4		625 ± 2	681	1306		8.5 not comp.			415	1265
21a	6.6 (6.3)	6.6		645 ± 2	681	1326		8.8			413	1293
24	6.6 (6.3)	6.6		645 ± 2	681	1326		9.5			415	1365
not comp. wicky scale	27		7.9	7.9	790 00		670	1460		m.s.	.	.
	28		7.8	7.7	7750 ±		670	1445				
	29		7.8	7.8	780 00		670	1450				
	30		8.6	8.5	8550 ±		671	1526				
	31		8.6	8.6	860 00		670	1530				
	32		8.8	9.0	890 ± 1		673	1563				
	33		9.5	9.4	9450		680	1625				

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Thursday November 12, 1914-

Scale P

Series 44-

H 1200 Pole.

	1st Exposure				2nd exp.		
	sc.1	sc.2	sc.2		sc.1	sc.2	
outside limit 14	.	.			.	.	
19	5.6 (.53)	5.9		5.60 .3 .3	8.3		
20	6.1 (.58)	6.1		5.95 .2 .1	8.5		
22	6.5 (.67)	6.5		6.35 .2 .1	8.7		
23	6.6 (.68)	6.6		6.45 .1 .2	9.2		
24	6.9 (.66)	6.7		6.65 .0 .1	9.6		
25		1.2			. bb closer 19.		
26		1.1			n.s.		
27		8.1					
28		8.4	8.4	8.40 .00			
29		8.1	8.1	8.10 .00			
30		9.1	9.1	9.10 .00			
31		9.4	9.5	9.45 .01			
32		9.1	9.1	9.10 .00			
33		f.	f.	f			
1r	4.2 (.39)	4.1		4.00 .1 .1	6.4 (6.1)	6.6	6.35 .3 .2
11r	6.3 (.60)	6.4		6.20 .2 .2	8.1		
12r	6.6 (.63)	6.7		6.50 .2 .2	9.7		
5R	4.2 (.39)	4.3		4.10 .2 .2	6.5 (.62)	6.6	6.40 .2 .2
7R	6.1 (.58)	5.9		5.85 .0 .1	8.3		
8R		1.6			9.7		
9R		1.7					
10R		8.4					
11R		8.5					
12R		8.4					
13R		8.5					
14R		8.9					

See p. 158

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Thursday November 12, 1914.

Scale P. Series 44-

	H 1200	Ore.		
	sc.1 sc.2 sc.2			
1sa	9.6			
l	6.6 6.7 6650.1			
Outside circle m	.			
t	.			

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Thursday November 12, 1914.

Scale P. Series 45

H 12 11 Pole -

	1st exposure				mc 12 15	Mean	a	Diff	2nd Exposure -				Mean	Diff
14					44.10/166	7.10		6.58			6.65		6.65	4.10
16	sc 1	sc 2	sc 2		44.5	4.95	a	6.45	sc 1	sc 2	7.55		7.55	3.85
18	59				5.55	5.55	a	6.51			8.20		8.20	3.86
19	6.21	6.1		6.00 1 1	6.05	6.02 02 03		6.40	8.4	8.4	8.40 00	8.60	8.50 10 10	3.92
20	6.1 6.4	6.4		6.25 1 2	6.25	6.25 00 00		6.48	8.6	8.7	8.65 0 1	8.7	8.68 03 02	4.05
22	6.2 6.5	6.6		6.40 2 2	6.35	6.38 02 03		6.81	9.1	9.2	9.15 10	8.9	9.02 13 12	4.17
23					6.55	6.55	a	6.79				9.4	9.4 a	3.94
24	6.4 6.7	6.7		6.70 55 2 1	6.85	6.78 08 07		6.86	9.2	9.2	9.20 00	9.4	9.30 10 10	4.34
25		7.3			7.3	7.30 0 0		6.57	9.5			9.8	9.65 1 2	4.22
26		7.6			7.8	7.70 1 1		6.63	9.8				9.80 a	4.53
27		7.7			7.9	7.80 1 1		6.89						
28		8.3			8.4	8.35 1 0		6.76						
29		8.1	8.1	8.70 00	8.7	8.70 00 00		6.96						
30		9.1	9.2	9.15 1 0	8.9	9.02 13 12		7.02						
31		9.1	9.3	9.20 1 1	9.4	9.30 10 10		6.92						
32		9.6	9.6	9.60 00		9.60 a		7.02						
33														
7 R	4.1 4.4	4.2		4.15 1 0	4.35	4.25 10 10			6.7 6.4	6.6	6.50 1 1 6.65 10		6.70	
11 R	6.2 6.5	6.5		6.35 2 1	6.30	6.32 03 02				8.8			8.9	
12 R		7.1			6.60	6.60 a				9.4			9.5	
5 R	4.3 4.5	4.5		4.35 2 1	4.65	4.50 15 15			6.5 6.8	6.7	6.60 1 1 6.75 0 +		6.95	
7 R	6.2	6.3		6.10 22	6.25	6.18 08 07				8.3			8.6	
8 R		7.5			7.6	7.55 1 0								
9 R		7.8			7.7	7.75 0 1								
10 R		7.9			8.3	8.10 2 2		6.94 2						
11 R		8.2			8.5	8.35 2 1		6.70						
12 R		8.4			8.3	8.35 0 1		6.76						
13 R		8.4			8.5	8.45 0 1		6.78						
14 R		8.9			8.9	8.90 00		6.85						
15 R		9.3			9.2	9.25 10		7.17						
16 R		9.6			9.7	9.65 0 1		7.07						
1	6.4 6.1	6.1		6.55 2 1	6.45	6.50 05 05			9.1	9.3		9.3 9.80	9.80 1 1	
m					7.4	7.4	a							
t		8.4			7.9	8.15 2 3						† 9.1	9.1 a	

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Thursday November 12, 1914.

Scale P. Series 45.

H 1212 C1 1 0 + 15.0

1st exposure 2nd exposure.

	RC1	RC2		Curve	Magn	RC1	RC2			
* 11	27 30	B.				56 59	58	570 ± 1		
15	34 37									
17	43 4.8	4.6	455 ± 0	6.44	10.97	167 85	1.4	745 1 0	3.92	11.37
18	51 5.4	5.3	520 ± 1	6.51	11.71	1.8	1.9	785 0 1	3.90	11.75
19	57 5.5	5.2	520 00	6.51	11.71	1.9	1.9	790 00	3.90	11.80
21	58 6.1	6.1	575 ± 1	6.61	12.51	8.7	8.6	8.65 1 0	3.98	12.63
21a	63 6.6	6.5	640 ± 1	6.65	13.05	8.9			4.07	12.97
22	63 6.6	6.6	645 ± 2	6.65	13.10	9.2			4.17	13.37
23	63 6.6	6.6	645 ± 2	6.65	13.10	9.1			4.15	13.25
24	63 6.6	6.6	645 ± 2	6.65	13.10	9.3			4.20	13.50
25	64 6.7	6.7	655 ± 1	6.66	13.21	9.5			4.29	13.79
26		7.1		6.72	13.82	9.7			4.48	14.11
27		7.5		6.75	14.25	?			?	
28		7.1		6.78	14.48					
29		7.1	7.1	770 00	6.78	14.48				
30		8.5	8.5	8.50 00	6.86	15.36				
31		8.6	8.6	8.60 00	6.87	15.47				
32		9.4	9.2	9.30 ± 1	6.99	16.29				
33		9.8	9.8	9.80 00	7.13	16.93				
* 1	17 20						38 3.6	B.		
10	double.									

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Thursday November 12, 1914-

Scale P

Series 45.

H 1215 Pole-

	1st exposure -				2nd exposure.		
	sc.1	sc.2	sc.2		sc.1	sc.2	
14	3.8 4.1	4.4	4.10 ± .3		6.1	6.6	6.65 .10
16	4.9 5.1	5.1	4.95 ± .1		7.6	7.5	7.55 .01
18	5.3 5.6	5.8	5.55 ± .2		8.2	8.2	8.20 .00
19	5.9 6.2	6.2	6.05 ± .2		8.6	8.6	8.60 .00
20	6.1 6.4	6.4	6.25 ± .2		8.1		
22	6.1 6.4	6.6	6.35 ± .2		8.9		
23	6.7 6.7	6.7	6.55 ± .1		9.4		
24	6.6 6.9	7.1	6.85 ± .3		9.4		
25		7.3			9.8		
26		7.8					
27		7.9					
28		8.4					
29		8.1					
30		8.9					
31		9.4					
32		1					
33		n.s.					
1r	4.2 4.5	4.5	4.35 ± .1		6.7	6.7	6.70 .00
11r	6.1 6.4	6.5	6.30 ± .2		8.9		
12r	6.5 6.8	6.7	6.60 ± .1		9.5		
5a	4.7 5.0	4.6	4.65 .10		6.8	7.1	6.95 ± .1
7a	6.1 6.4	6.4	6.25 ± .2		8.6		
8a		7.6			n.s.		
9a		7.7					
10a		8.3					
11a		8.5					
12a		8.3					

comp. poor difficult

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Thursday, November 12, 1914.

Scale P

Series 45.

H 1715 Pole cont.

1st exposure.

	sc.1	sc.2	sc.2		sc.2
13a		8.5			.
14a		8.9			.
15a		9.2			.
16a		9.1			.
l	6.6 (6.3)	6.6	6455.2		9.3
m		7.4			8.
outside limit r		.			.
s		.			.
t		7.9			.
f	6.4 (6.1)	6.5	6302.2		9.1
g		7.1			.

12.20

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Friday November 13, 1914.

Scale P. Series 35.

10:15 Jt 11 2 2 J Pole.

		RC.1	RC.2	RC.2
outside limit	14	.	.	
	15	.	8.5	8.5
	19		n.s.	n.s.
	20		n.s.	n.s.
	23		n.s.	
	24		n.s.	
	25			
	26		n.s.	
	27			
	28			
outside limit.	1N		.	
	11N			
	12N			
	5R	6.7	6.7	
	7R	n.s.		
	8R	n.s.		
	9R			
	10R			
	11R			
	12R		±	
	13R			
	b		±.	
	r		n.s.	
outside limit.	t		.	
	14R		±	

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Friday November 13, 1914-

Scale P. Series 35

Jt 1123 Pole-

	sc.1	sc.2	sc.2
14	3.6	B.	
15	4.2	tf.	
19	5.6	5.8	
20	6.2	6.2	
23	6.5	6.6	
24	6.9	7.2	
25		7.4	
26		7.5	
27		8.5	8.4
28		8.5	8.4
29		9.1	9.4
30		9.5	9.1
31		9.8	10.0
32		n.s.	
outside limit 1r		.	
11r	5.2	5.3	
12r	6.5	6.3	
5r	3.4	B.	
7r	5.4	5.5	
8r		7.6	
9r		7.4	
10r		8.4	
11r		8.3	
12r		8.6	
13r		8.4	

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Friday, November 13, 1914.

Scale 8

Series 35.

H 1123 Pole cont.

		sc.1	sc.2	sc.2
	14a		8.1	
	15a		9.8	
	16a		9.5	
	17a		?	
	l	6.1	6.3	
	m	6.5	6.4	
	r		8.2	
outside limit	n			
	w		?	

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1914phae..proj..10630

Friday November 13, 1914.

Scale P. Series 35

	7h 11m 24s	Pole.	
	pc.1	pc.2	pc.2
14a	5.5	5.4	
19		7.1	
20		7.9	
22		8.5	
23		8.6	
24		8.1	7.8
not comp. with scale 25		8.9	9.2
26		9.2	9.3
27		9.8	9.1
28		f.	f.
29		n.s.	n.s.
7r	5.5	5.4	
11r		7.5	7.5
12r		7.7	7.9
5a	5.5	5.5	
7a		7.4	
8a		9.4	9.4
9a		9.3	9.5
10a		f	
11a		n.s.	
l		8.5	8.4
m		8.4	8.4
outside limit, r		.	.
t		9.8	9.8

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Friday November 13, 1914.

Scale P

Series 35.

H

H 1125

Pkc.

		sc 1	sc 2	sc 2
	14		7.7	7.1
outside limit	15		.	.
	19		9.8	9.8
	1r	6.8	6.9	
comp. difficult	11r		9.+?	9.+?
	12r		9.9	9.9
	20		9.9	9.9
	22		n.s.	
	23		n.s.	
	25			
	5a		7.5	7.4
does not comp. with scale.	7a		t.h.	
	8a		n.s.	
	9a		n.s.	
	10a		n.s.	
	l		t.h.	
	m		n.s.	
	r		n.s.	
	t		n.s.	
	e		n.s.	

11:16

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Monday November 16, 1914.

Scale V MS Series 318 Exposed.

10:05 MS 6227 D9 17-15°

Alt. -.33 Cle.

	sc.1	sc.2	sc.3	Mean	Curve	Magn	sc.2	sc.3		Curve	Magn
		4.7					8.4				
1		4.6					8.3	8.4	8.40 00	-.068	7.72
		5.3					8.5				
2		5.2					8.4	8.5	8.50 00	-.069	7.81
		5.1					8.7				
3		4.6					8.3	8.4	8.55 12	-.069	7.86
		5.5					8.6				
4		5.4	5.4	5.45 10	2.77	8.22	8.5	8.5	8.55 01	-.069	7.86
		5.6	5				8.8				
5		5.5	4.5	5.55 01	2.73	8.28	8.1	8.9	8.85 01	-.071	8.14
		6.3					9.6				
6		6.2	6.3	6.30 00	2.49	8.79	9.4	8.9	9.20 33	-.068	8.52
		6.4					9.5				
7		6.3	6.5	6.45 01	2.46	8.91	9.4	9.4	9.45 10	-.064	8.81
		6.3					9.7				
8		6.2	6.3	6.30 00	2.49	8.79	9.1	9.4	9.30 11	-.067	8.63
		6.4					9.5				
9		6.3	6.3	6.35 01	2.48	8.83	9.4	9.2	9.35 12	-.065	8.70
		7.0					n.s.				
10		6.9	7.3	7.15 21	2.30	9.45					
		7.5									
11		7.4	7.5	7.50 00	2.27	9.77					
		7.7									
12		7.6	7.6	7.65 10	2.26	9.91					
		7.6									
13		7.5	7.5	7.55 01	2.26	9.81					
		8.0									
14		7.9	7.7	7.85 21	2.26	10.11					
		8.2									
15		8.1	8.1	8.15 01	2.27	10.42					
		7.9									
16		7.8	7.9	7.90 00	2.26	10.16					
17		def.	def.	.	.	.					
		8.4									
18		8.3	8.5	8.45 01	2.29	10.74					
		8.5									
19		8.4	8.4	8.45 10	2.29	10.74					
		8.7									
20		8.6	8.6	8.65 10	2.31	10.96					
		8.7									
21		8.6	8.7	8.70 00	2.31	11.01					
		8.8									
22		8.7	8.7	8.75 01	2.32	11.07					
		9.4									
23		9.3	9.4	9.40 00	2.40	11.80					
		9.5									
24		9.4	9.3	9.40 11	2.40	11.80					
		9.5									
25		9.4	9.4	9.45 10	2.41	11.86					
26		9.4	9.5	9.50 00	2.40	11.90					
27		9.8	9.8	9.85 10	0.45	12.30					
28		n.s.									

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Monday/November 16, 1914-

Scale

Mt Series 318

Mt 6212 9 Pole -

	sc 2	sc 2	sc 3		Mt 6233 Mean	Diff.	sc 2	sc 3		Mc 6233	
	2.7				1-176					1-176	
5	2.6				26 250 277	265 10 384	6.5	6.7	665 01	695	680 15 15 - 0.31
6	3.5				36 345 366	360 00 8.51	7.7	7.6	765 10	775	770 05 05 - 059
8		5.5	5.7		865 01	545 555 268	8.8	8.8		920	900 20 20 - 077
9		6.4	6.5		650 00	615 632 251		9.4		940	940 00 00 - 057
10		6.6	6.8		675 10	650 662 240					
11		7.4	7.5		750 00	715 732 223					
12		7.7	7.6		770 11	76 765 221					
13			8.1	8.1	8.10 00	77 800 230					
14		8.4	8.4	8.5	845 01	830 838 227					
15			8.8	8.9	885 01	865 875 233					
16			8.8	8.8	880 00	890 885 255					
17			9.3	9.2	925 10	935 930 233					
18			9.6	9.7	965 01	960 962 247					
19			∅	m.s.	.	∅ . .					
90			m.s.		.	. . .					
23											
25											
26											

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Monday November 16, 1914.

Scale V

MS Series 318 Corrected

MS 6231 D 10 19 −15.0°

Alt. 21 Q.C.

	Sc.1	Sc.2	Sc.3		Curve	Magn	Sc.1	Sc.2	Sc.3		Curve	Magn
1		4.2 4.1	4.5	4.35 2.1	3.18	7.53		8.4	8.4	8.40 0.0	−0.68	7.72
2		4.4 4.3	4.5	4.45 0.1	3.16	7.61		8.2	8.2	8.20 0.0	−0.66	7.54
3		4.9 4.8	5.2	5.05 1.2	2.94	7.99		8.1	8.1	8.70 0.0	−0.70	8.00
4		5.0 4.9	5.3	5.15 2.1	2.88	8.03		8.6	8.5	8.55 0.1	−0.69	7.86
5		5.0 4.9	5.4	5.20 2.2	2.86	8.06		9.2	9.4	9.30 1.1	−0.66	8.64
6		5.4 5.3	5.6	5.50 1.1	2.74	8.24		9.3			−0.66 6	8.68 4
7		5.7 5.6	6.1	5.90 2.2	2.61	8.51		9.4			−0.65	8.75
8		6.4 6.3	6.4	6.40 0.0	2.45	8.85		9.5			−0.62	8.88
9		6.6 6.5	6.5	6.55 0.1	2.43	8.98		9.3			−0.66	8.64
10		5.7 5.6	5.6	5.65 1.0	2.70	8.35		9.3			−0.66	8.64
11		6.6 6.5	6.6	6.60 0.0	2.41	9.01		9.6			−0.60 E	9.00 E
12		6.7 6.6	6.1	6.70 0.0	2.38	9.08		9.9				
13		6.6 6.5	6.1	6.65 0.1	2.40	9.05						
14		6.7 6.6	7.1	6.90 2.2	2.35	9.25						
15		Sc.3 8.5	8.5	8.50 0.0	2.29	10.79						
16		7.6	7.6	7.60 0.0	2.26	9.86						
17		8.3	8.3	8.30 0.0	2.28	10.58						
18		7.6	7.6	7.60 0.0	2.26	9.86						
19		8.9	8.6	8.75 1.2	2.32	11.07						
20		9.2	9.2	9.20 0.0	2.37	11.57						
21		8.6	8.5	8.55 0.1	2.30	10.85						
22		8.8	8.8	8.80 0.0	2.33	11.13						
23		8.8			2.33	11.13						
24		9.2	8.9	9.05 2.1	2.35	11.40						
25		9.5	9.5	9.50 0.0	2.42	11.92						
26		9.3	9.4	9.35 1.0	2.40	11.75						

Ch. F. C.

	Sc.2				
27	9.7 9.3	9.3	9.35 0.1	2.40	11.75
28	9.5 9.7	9.6	9.55 1.0	2.42	11.97
29	10.1 10.0	10.0	10.05 1.0		
30					

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Monday November 16, 1914.

Scale V

M Δ Series 318

M Δ 6233 Orle.

	RC 2	RC 3	RC 3		RC	RC 2	RC 3	
						68		
5	2.5	B.				6.7	7.1	6.95 2 i
6	3.5	B.				7.7	7.8	7.75 1 o
8	5.8	5.5		5.45 01		9.2	9.2	9.20 00
9	6.1	6.1		6.15 01		9.4	9.4	9.40 00
10	6.7	6.5		6.50 00				
11	6.9	7.3		7.15 2 i				
12		7.6						
13		7.9						
14		8.2	8.4	8.30 1 i				
15		8.6	8.7	8.65 01				
16		8.9	8.9	8.90 00				
17		9.4	9.3	9.35 01				
18		9.6	9.6	9.60 00				
19								
20								
23								
25								
26								
27								

Ch. R.C.

See p. 174

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Scale 2

M 7 Series 307.

M 6109

Pole.

P.C.

	SC.2	SC.3	SC.3	M 6115 p 179		SC.2	SC.3	SC.3		M 6115
5	3.5 3.6	B.		3.6	360 00	7.5	7.5	7.5	7.50 00	7.55
6	4.6 4.7	5.1		4.90 2.2	4.30	4.60 8.3		8.4	8.1	8.25 2.1	8.15
8	6.4 6.5	6.5		6.50 00	5.60	6.05		9.3	9.3	9.30 00	9.30
9	6.9 7.0	7.2		7.10 1.1	6.50			9.6	9.6	9.60 00	9.75
10		7.3			6.60			F.		F	F
11		7.6			7.4						
12		7.9			7.6						
13		8.4			7.9						
14		8.4	8.5	8.45 0.1	8.40						
15		8.9	8.9	8.90 00	8.65						
16		9.4	9.4	9.40 00	9.10						
17		9.5	9.5	9.50 00	9.45						
18		9.5	9.4	9.45 10	9.75						
19		F.	F.	F	F						
20		n.s.									
23											
25											
26											
27											
28											
29						Ch. P.C.					
30											

Reduction delayed. (H.S.Lo. Nov 18-1914)

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Monday November 16, 1914.

Scale V

*MZ Series 3.07.

	MD 6111			D 11	21 - 15°
				alt 20	R.C.
	sc.2	sc.3	sc.3		sc.2 sc.3 sc.3
1	6.1 62	6.1			t.f.
2	t.f.				
3	4.3 44	4.6			t.f. t.f.
4	6.3 64	6.4			9.1 9.1
5	6.1 62	6.2			8.7 9.1
6	4	4.5			t.f. 9.4
7	6.6 67	7.1			9.5 9.5
8	6.5 66	6.6			9.4
9	6.8 69	7.3			9.5
10		7.5			def?
11		7.4			9.7
12		7.7			9.8
13		7.6			f.
14		8.1			
15		8.4			
16		8.2			
17		8.4			
18		8.7			
19		8.6			
20		8.7			
21		8.7			
22		8.7			
23		9.3	9.2		
24		9.1	8.8		
25		9.4	9.4		
26		9.4	9.4		
27		9.7	9.7		
28		t.f.			

* Images in this series are from t. do not appear with scale.

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Monday November 16, 1914.

Scale

M Δ Series 307.

M Δ 6115 Pole.

Oe.

	RC.2	RC.3	RC.3		RC.7	RC.3	
5	3.5 (3.6)	B.			7.6	7.5	7.55 01
6	4.2 (4.3)	4.3		4.30 00	8.1	8.2	8.15 10
8	5.5 (5.6)	5.6		5.60 00	9.3	9.3	9.30 00
9	6.4 (6.5)	6.5		6.50 00	9.8	9.7	9.75 01
10	6.5 (6.6)	6.6		6.60 00	↓	↓	,
11		7.4					
12		7.6					
13		7.9					
14		8.3	8.5	8.40 11			
15		8.6	8.7	8.65 01			
16		9.1	9.1	9.10 00			
17		9.5	9.4	9.45 10			
18		9.8	9.7	9.75 01			
19		ms	↓	,			
20							
23							

See fr. 177

17.15

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1914phae.proj.10630

Tuesday November 17, 1914.

Scale R. : : MD Series #-16.

10— MD 3218 Pole.

floor.

does not compare with scale.

	Rc.1	Rc.2	Rc2	MD 3222 +/182	mean	Diff	Rc.2 Rc.2			MD 3222 +/182		Diff.
5	7.1	B.		7.6	7.50	1 1	-.101	11.2	11.2	11.20	00	11.15	11.18 02 03	-.469
6	8.2	8.2		8.50	8.65	8.58 08	07 -.147	11.5	11.5	11.50	00	11.70	11.60 10	10 -.449
8		10.4		10.4	10.40	0 0	-.217	12.9	12.9	12.90	00	13.15	13.02 12	13 -.479
9		11.3		10.6	10.95	3 4	-.212	13.5	13.5	13.50	00	13.35	13.42 08	07 -.459
10		11.4		11.3	11.35	0 1	-.233	13.5	13.7	13.60	1 1	13.55	13.58 02	03 -.456
11		11.7		11.7	11.70	0 0	-.215	f.	f.	f		14.0	14.02	02 -.445
12		11.9		12.2	12.05	15	15 -.219							
13		12.5				12.5	-.220							
14		12.8	12.6	12.70	11	12.55	12.62 05	07 -.197						
15		13.1	13.2	13.15	10	13.15	13.500	00 -.207						
16		13.4	13.5	13.45	0 1	13.20	13.32	13 12 -.192						
17		13.5	13.6	13.55	10	13.45	13.50	05 05 -.187						
18		13.6	13.7	13.65	0 1	13.85	13.75	10 10 -.169						
19		f.		f	f	,	,							
20		m.s.		,		,								
23														
25														

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Tuesday, November 17, 1914.

Scale R MD Series 76. Copied

MD 3221 D9 17 −15°

alt − 20 Dec

	sc.1	sc.2	sc.2		Curve	Magn	sc.2	sc.		Curve	Magn
1		9.3	9.3	9.30 00	−.175	1105 755	12.8	12.7	12.75 01	−4.68	8.07
2		9.8	9.5	9.65 21	−.189	1154 776	12.6	12.8	12.70 11	−4.69	8.01
3		9.4	9.5	9.45 01	−.181	1126 764	13.1	12.7	12.90 22	−4.61	8.23
4		9.5	9.4	9.45 10	−.181	1126 764	12.6	12.8	12.70 11	−4.69	8.01
5		10.2	9.9 9.4	10.05 w.s. 21	−.202	1207 803	13.3	13.1	13.20 11	−4.64	8.56
6		10.5	10.4	10.45 10	−.213	1258 832	13.3	13.4	13.35 10	−4.61 −4.57	8.78
7		11.2	11.2	11.20 00	−.223	1343 897	↓				
8		10.3	10.4	10.34 01	−.209 −.223	1243 825	13.4	13.4	13.40 00	−4.56	8.84
9		10.4	10.4	10.40 00	−.223	1253 827	13.4			−4.56	8.84
10		11.5	11.6	11.55 10	−.223	1378 932	↓				
11		11.6	11.6	11.60 00	−.222	1382 938					
12		11.6	11.7	11.65 01	−.222	1387 943					
13		11.6	11.6	11.60 00	−.223	1383 937					
14		12.1	12.2	12.15 10	−.216	1431 999					
15		12.2	12.3	12.25 01	−.215	1440 1010					
16		12.4	12.5	12.45 01	−.212	1457 1033					
17		12.3	12.4	12.35 10	−.213	1448 1022					
18		12.6	12.6	12.60 00	−.208	1468 1052					
19		12.6	12.6	12.60 00	−.208	14 1052					
20		12.9	13.3	13.10 22	−.195	1115					
21		13.4	13.4	13.40 00	−.187	1153					
22		13.3	13.4	13.35 10	−.188	1147					
23		13.1	13.8	13.75 10	.175	1200					
24		13.1	13.5	13.60 11	−.180	1180					
25		13.6	13.1	13.65 01	−.179	1186					
26		↓	↓	,	,	,					

Ch. F.C.

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1914phae.proj.10630

Tuesday November 17, 1914

Scale R

MS Series 16

MS 32021

Cole

	sc.1	sc.2	sc.2		P.C. sc.1	sc.2	
5	7.6 7.3 8.6	8.			11.1	11.2	11.15 10
6	8.3	8.1		8.65 01	11.7 ~~11.2~~ w.s	11.1	11.70 00
8		10.4			13.2	13.1	13.15 01
9		10.6			13.4	13.3	13.35 01
10		11.3			13.6	13.5	13.55 01
11		11.1				14.0	
12		12.2					
13		def.					
14		12.5	12.6	12.55 10			
15		13.2	13.1	13.15 01			
16		13.2	13.2	13.20 00			
17		13.5	13.4	13.45 10			
18		13.8	13.9	13.85 01			
19		f.	f.	f			
20		n.s.	n.s.				
23							
25							

bh. P.C.

See fr. 180

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Tuesday November 17, 1914-

Scale R-

MD Series 84-

MD 3316 Ore-

		Rc.1	Rc.2	Rc.2		MD 3321 + 185		Diff.	Rc1	Rc2				
poor	5	5.6 .59				5.8	5.85	10 .064	10.5	10.6	10.55	10	10.60	10.58 03 02 -4.09
	6	1.2 .76	(B)			7.1	7.30	22 -0.19	11.8	11.7	11.75	01	11.70	11.72 03 02 -4.61
	8	8.9 .97	8.8		9.00	22	9.15	9.08 08 07 -0.85	13.4	13.4	13.40	00	13.45	13.42 02 03 -5.19
	9		10.4				10.3	10.35 01 -1.52	13.9	13.9	13.90	00	14.00	13.95 05 05 -5.12
	10		10.5				10.6	10.50 00 -1.48	14.0	14.1	14.05	01	F	14.05 Q F -5.03
	11		11.5				11.4	11.45 10 -1.90						
	12		11.1				11.9	11.80 11 -1.94						
	13		12.4				12.4	12.40 00 -2.10						
	14		12.6	12.8	12.70	11	12.60	12.65 05 05 -2.00						
	15		13.3	13.4	13.35	10	13.35	13.35 00 00 -2.27						
	16		13.5	13.5	13.50	00	13.55	13.52 02 03 -2.12						
	17		13.7	13.6	13.65	10	13.65	13.65 00 00 -2.02						
	18		14.1	14.1	14.10	00	14.05	14.08 02 03 -2.02						
	19		n.s.	n.s.										
	20													
	23													

bh. P.C.

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Tuesday November 17, 1914.

Scale R

MD Series No. 84 - Lespiel.

MD 3320 D9 17 0 — 150°

Alt. -18 P.C.

	sc.1	sc.2	sc.3		Cum	Magn	sc.1	sc.2				Cum	Magn
1	7.9 1.6	B.			-0.40	7.50	12.6	12.6	12.60	00	-4.71	7.89	-4.96 7.64
2	8.5 8.2				-0.67	7.83	13.4	13.3	13.35	01	-4.70	8.65	-5.17 8.18
3	8.0 1.7	8.1	8.05	01	-0.47	7.56	13.4	13.4	13.40	00	-4.70	8.73	-5.17 8.23
4	8.1 1.8	8.2	8.15	10	-0.52	7.63	13.2	13.5	13.35	21	-4.70	8.65	-5.17 8.18
5	8.6 8.3	8.4	8.50	11	-0.67	7.83	13.5	13.5	13.50	00	-4.68	8.82	-5.18 8.32
6		9.2			-0.98	8.22	13.9				-4.62	9.28	-5.11 8.79
7		9.6			-1.17	8.43	1.					F.	
8	9.1 8.8	9.1	9.10	00	-0.92	8.18	14.0				-4.57	9.43	-5.09 8.91
9	9.2 8.9	9.2	9.20	00	-0.98	8.22	14.1				-4.54	9.56	-5.04 9.06
10		10.1			-1.61	9.09							
(W.S.) 11		~~12.5~~ 11.2			-1.79	9.41							
12		11.5			-1.87	9.63							
13		11.4			-1.84	9.56							
14		12.2			-2.02	10.18							
15		12.4			-2.05	10.35							
16		12.5			-2.06	10.44							
17		12.2	12.2	12.20	00	-2.03	10.17						
18		13.3	13.1	13.20	11	-2.10	11.10						
19		13.3	13.3	13.30	00	-2.10	11.20						
20		13.5	13.4	13.45	10	-2.10	11.35						
21		13.6	13.5	13.55	01	-2.10	11.46						
22		14.1	13.6	13.85	32	-2.11	11.74						
23		1.	1.	F.			F.						
24													
25													
26													

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Tuesday November 17, 1914-

Scale R-

MD Series #4-

MD 3321

Pole-

	Dec 1	Dec 2	Dec 2		Dec 2	Dec 2	
5	5.5	B.			10.6	10.6	10 60 00
6	6.8	B.			11.7	11.7	11 70 00
8	8.9	9.1		9 15 01	13.4	13.5	13 45 01
9		10.3			14.0	14.0	14 00 00
10		10.5					
11		11.4					
12		11.9					
13		12.4					
14		12.6	12.6	12 60 00			
15		13.4	13.3	13 35 01			
16		13.6	13.5	13 55 01			
17		13.7	13.6	13 65 10			
18		14.1	14.0	14 05 10			
19							
20							

D.C.

See p. 183

Ch. P.C.

11:30

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Saturday November 21, 1914.

Scale R. YELLOW Series 367

12 MC 6820 Obs. Without Iris screen 15m exp.

						MC 6822 p 191					G.C.			MC 6822 p 191	
			sc 1	sc 2	sc 2			Mean			sc 1	sc 2			Mean
1,2,4 off	3	Q.				.	.	.			8.6	8.9 8.6	8.60	8.80	8.78 03 02
	5	Q.				.	.	.			10.3	10.4	10.35	10.35	10.35 00 00
	6	2.5				2.8	2.4	2.60	2 2		11.5	11.4	11.45	11.40	11.42 03 02
	7	t.f.				.	.	.			11.7	12.1	11.90	12.10	12.00 10 10
	8	5.5				5.8	5.7	5.75	0 1		12.7	12.7	12.70	12.65	12.68 02 03
	9	7.3				7.6	6.9	7.25	4 3		13.4	13.4	13.40	13.5	13.45 05 05
	10	7.4	Q.			7.7	7.7	7.70	00		13.7		13.7	13.8	13.75 05 05
	11	8.3	8.5			8.55	01 8.70	8.62	07 08		↓				
	12	8.6	9.1			9.00	1 8.85	8.92	08 07		n.s.				
	13		10.3			10.3	10.3	10.30	0 0		n.s.				
	14		10.4			10.4	10.4	10.40	0 0						
	15		11.3			11.3	11.3	11.30	0 0						
	16		11.7			11.7	11.5	11.60	1 1						
	17		11.9			11.9	11.7	11.80	1 1						
	18		12.6			12.6	12.45	12.52	08 07						
	19		13.1			13.1	13.25	13.18	08 07						
	20		13.5	13.5		13.50	00 13.55	13.52	02 03						
	21		13.4	13.5		13.45	01 13.45	13.45	00 00						
	22		13.6	13.6		13.60	00 13.75	13.68	08 07						
	23		13.9	13.9		13.90	00 13.90?	13.90	00 00						
	24		14.0	14.0		14.00	00 .	14.00	A.						
	25		14.1	?	↓	14.1?	.	14.1?	A.						
	26		n.s.				.	.							
	27		n.s.				.	.							
	12	Q.					.	.			4.5	4.8	4.9	4.85	01
	42	8.5				8.8	8.75	8.78	02 03		n.s.				

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Saturday November 21, 1914.

Scale R. YELLOW Series 367.

mc 6820 Pole cont.

	rc 1	rc 2		mc 6822 p 192	mean								
5 ℞		9.3	9.3	9.3	9.30	00							
6 ℞		10.6	10.6	10.6	10.60	00							
7 ℞		13.4?	13.4?	13.3?	13.35?	01							
8 ℞		f.	.	.	.								
9 ℞		m.s.	.	.	.								
10 ℞		m.s.	.	.	.								
11 ℞		m.s.	.	.	.								
12 ℞		m.s.	.	.	.								
13 ℞		.	.	.	.								
14 ℞		.	.	.	.								
off plate 1 ℞		.	.	.	.							mc 6822 p 192	mean
2 ℞	1.8 1.5		1.8	1.9	1.85	01							
3 ℞	4.4 4.1		4.4	4.9	4.65	23	10.4	10.4	10.40	00	10.4	10.40	00 00
4 ℞	5.9 5.6		5.9	6.0	5.95	10	11.9	11.8	11.85	10	12.2	12.02	17 18
5 ℞	6.8 6.5		6.8	6.8	6.80	00	13.3? very close to bri. star.		13.3?		13.05	13.18?	12 13
6 ℞	7.9 7.6	Q.	7.9	7.9	7.90	00	13.5	13.5	13.50	00	13.4	13.45	05 05
7 ℞	8.9 8.6	8.1	8.80	8.80	8.80	00 00	13.9	14.1	14.00	11	.	14.00	A.
8 ℞		10.2	10.2	10.4	10.30	11	m.s.						
9 ℞		11.4	11.4	11.4	11.40	00							
10 ℞		13.4	13.4	12.65	13.02	38 37							
11 ℞		12.6	12.6	12.35	12.48	12 13							
12 ℞		13.6.	13.6	13.40	13.50	10 10							
a		9.9	9.9	10.3	10.10	2 2							
a'		12.4	12.4	12.3	12.35	0 1							
b		11.6	11.6	11.5	11.55	0 1							
c		12.4	12.4	12.50	12.45	05 05							
d		12.1	12.1	11.80	11.95	15 15							

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Saturday November 21, 1914

YELLOW

Scale R. Series 367.

Mc 6820 cont.

		pc.1	pc.2	pc.2	Mc 6822 fo 193		Mean	pc.2	Mc 6822 fo 193	Mean
	e		12.5		12.5	12.3	12.40 1			
	f		13.3		13.3	12.7	13.00 3 3			
	g		13.3		13.3	12.6	12.95 3 4			
poor	h		13.5?	13.4?	13.45? 10		13.45? A			
	k		14.0	13.9	13.95 01	13.8	13.88 07 08			
	l		1.							
	m		13.7	13.7	13.70 00	13.5	13.60 10 10			
+88	2	5.4	5.5	5.8	5.75 10	5.8	5.78 03 02	12.7	12.7	12.70 00
+87	12	5.4			5.7		5.7 A	12.4	11.9	12.15 23
+88	105	6.3			6.6	6.2	6.40 2 2	13.4	13.3	13.35 01
+88	90	7.5		B.	7.8	7.8	7.80 00	13.9		13.9 A
+87	15	t.p.						12.5	12.6	12.55 10
+88	115	7.6		B.	7.9	7.8	7.85 10	13.9?	13.8?	13.85? 10
+88	80	t.p.						t.p.	13.7	13.7 A
+88	86	t.p.						t.p.		
	o		1							
(o meas here)										
	q		14.1?		14.1?		14.1?			
	r		n.s.							
	s		n.s.							

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YELLOW

Scale R. Series 361

Mc 6821 Pole Wire screw. (15mm

no. P.C.

		pc.1	pc.2	pc.2	pc.1 pc.2
	3	t.f.			
Inv. hazy.	5	5.5? 5.8?			5.8?
	6	6.6 6.9	B.		6.9
	7	8.2 8.5	8.3		8.40 1
	8	8.5 8.8	8.7		8.750 1
	9		10.3		10.3
	10		10.1	10.1	10.80 1
	11		11.8	11.9	11.850 1
	12		12.4	12.4	12.400 0
	13		13.1	13.2	13.150 0
	14		13.2	13.4	13.301 1
Reject meas. Inv too faint	15		~~10.2~~?	t.f.	
	16		n.s.		
	17		n.s.		
	18		n.s.		
	1R	B.			
	4R		12.5		12.5
	5R		12.4		12.4
	6R		13.4		13.4
	7R		n.s.		
	8R		n.s.		
off plate	1R				
	2R	5.5 5.8	5		5.8
	3R	7.7 8.0	8.1		8.050 1
	4R		9.4		9.4
	5R		10.4		10.4

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Scale R. YELLOW Series 367.

Mc 6821 Pole cont

O.C.

		pc 1	pc 2	pc 2	
	6N		11.3	11.4	11.35 ±0
	7N		12.5	12.6	12.55 ±0
Defect near.	8N		13.4?	13.6	13.50? ±1
	9N		13.8	13.9	13.85 01
	10N		n.s.		
	11N		n.s.		
	+88 2	8.6 8.9	8.8		8.85 10
	+88 10.5		10.2		10.2
	+88 9		11.5		11.5
	+88? 12	8.1 8.4	8.4		8.40 00
	+87 15	8.5 8.8	8.5		8.65 2±
	+88 80		12.1		12.1
	+88 86		12.4		12.4
	+88 115		11.4		11.4
	a'		12.8		12.8
	a^2		?.		
	b		?.		
	c		?.		
	d		n.s.		
	e		n.s.		

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YELLOW

Scale R Series 367.

	Mc 6822		Pole -	Without wire screen	
				C.C	
	sc.1	sc.2 sc.2		sc.1 sc.2	
3	B.			8.6 8.9 8.1	8.80 ±
5	B.			~~8.7~~ 10.3 10.4	10.35 ± 0
6	2.1 2.4		2.4	11.4 11.4	11.40 00
7	tr.			12.1 12.1	12.10 00
8	5.4 5.7		5.7	12.7 12.6	12.65 ± 0
9	6.6 6.9		6.9	13.5	13.5
10	7.4 7.7	B.	7.7	13.8	13.8
11	8.4 8.7	8.1	8.70 ± 0	I.	
12	8.7 9.0	8.1	8.852 ±	m.s.	
13		10.3	10.3		
14		10.4	10.4		
15		11.3	11.3		
16		11.5	11.5		
17		11.7	11.7		
18		12.3	12.6 12.45 ± 2		
19		13.2	13.3 13.25 ± 1		
20		13.5	13.6 13.55 ± 0		
21		13.5	13.4 13.45 ± 0		
22		13.7	13.8 13.75 ± 0		
23		13.8?	14.0? 13.90? ± 1		
24		I.	.		
25		I.	.		
26		m.s.	.		
27		m.s	.		
1 ∞	B.		.	4.6 4.9 B.	4.9
4 ∞	8.6 8.9	8.6	8.75 ±	m.s.	

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Scale R. YELLOW Series 367

Mc 6822 Pole cont.

	sc.1	sc.2	sc.2		sc.1 sc.2	
5R		9.3		9.3		
6R		10.6		10.6		
7R		13.3?		13.3?		
8R		f.		.		
9R		f.		.		
10R		m.s.		.		
11R		m.s.		.		
12R		m.s.		.		
13R		m.s.		.		
14R				.		
2r	1.6 1.9			1.9	10.4	10.4
3r	4.6 4.9			4.9	12.2	12.2
4r	5.7 6.0			6.0	13.2 12.9 (close to bit plate)	13.05 2 l
5r	6.5 6.8			6.8	13.4	13.4
6r	7.6 7.9	B.		7.9	f.	
7r	8.6 8.9	8.7		8.80 1 l		
8r		10.4		10.4		
9r		12.4		11.4		
10r		12.6	12.7	12.65 01		
11r		12.4	12.3	12.35 01		
12r		13.4	13.4	13.40 00		
a'		10.3		10.3		
a2		12.3		12.3		
b		11.5		11.5		
c		12.5	12.5	12.50 00		
d		11.7	11.9	11.80 11		

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Saturday November 21, 1914.

YELLOW

Scale R. Series 367.

	Mc6822		Pole	cont.
	sc.1	sc.2 sc.2		sc.1 sc.2 P.C.
e	12.3		12.3	
f	12.7		12.7	
g	12.6		12.6	
h	t.f.		.	
k	13.8		13.8	
l	f.		.	
m	13.5		13.5	
o	m.s.		.	
p	.		.	
q	f.		.	
r	m.s.		.	
+88 2	5.5 5.8		5.8	12.7
+87 12	.	t.f.	.	11.9
+88 90	7.5 7.8	B.	7.8	f.
+88 105	5.9 6.2		6.2	13.3
+87 15	.	t.f.	.	12.6
+88 80	.	t.f.	.	13.7.
+88 86	.	t.f.	.	t.f.
+88 115	7.5 7.8	B.	7.8	13.8?

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Wednesday, November 26, 1914.

Scales
9.45

mc 6884

Series 372.
Cole.

	sc.		mc 6889 + 200	Mean.	Diff		P.C.	mc 6889 + 200		
5							5.5 5.5	5.50	5.50	0.99
6							6.1 5.9	6.00	5.70	5.85 1.26
8							6.7 7.1	6.90	6.75	6.82 1.41
9							7.6 7.6	7.60	7.60	7.60 1.23
10	4.5		4.6	4.55	0	4.47	7.6 7.6	7.60	7.60	7.60 1.42
11	4.6		4.7	4.65	0 1	4.90	8.4	8.2	8.30	1 1 1.25
12	4.7		5.4	5.05	3 4	4.81	8.5	8.4	8.45	1 0 1.41
13	5.4		5.5	5.45	0 1	4.85	8.8	8.6	8.70	1 1 1.60
14	5.6		5.7	5.65	0 1	5.00	9.4	8.9	9.15	2 3 1.50
15	5.9		6.0	5.95	1 0	5.13	9.5	9.4	9.45	1 0 1.63
16	6.4		6.4	6.40	0 0	5.00	susp.	9.7	9.70	2 1.70
17	6.6		6.6	6.60	0 0	5.03	1	9.9	9.90	2 1.73
18	6.7		6.8	6.75	1 0	5.31	m.s.	1		
19	7.4		7.4	7.40	0 0	5.02				
20	7.5		7.5	7.50	0 0	5.23				
23	8.2		7.8	8.00	2 2	5.34				
25	8.6		8.4	8.50	1 1	5.37				
(9.1 w.s.)	26	8.1	8.8	8.75	1 0	8.70	8.72	03 02	5.61	
	27	9.1	9.2	9.15	1 0	8.70	8.92	23 22	5.77	
	28	9.4	9.5	9.45	0 1	9.35	9.40	05 05	5.71	
	29	9.6	9.6	9.60	0 0	9.60	9.60	00 00	6.06	
	30	9.7	9.8	9.75	1 0	9.70	9.72	03 02	6.32	
	31	10.1	1	1						
	32	m.s.								

lch. F. C.

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Wednesday November 25, 1914.

Cand.

Scale u — Series 372. Copied.

Me 6885 — .91 K — 23 13 +15.1

Alt. +17

			Curve.	Magn.	C.C.	C.C.	Curve.	Magn.
1	3.8		4.60	8.40	7.1	6.9	7.00 11	1.33 8.33
2	4.6		4.77	9.37	8.2	8.1	8.15 01	1.43 9.58
3	4.1		4.79	9.49	8.6	8.6	8.60 00	1.49 10.09
4	5.5		4.93	10.43	9.1	8.9	9.00 11	1.54 10.54
5	5.6		4.95	10.55	9.4	9.4	9.40 00	1.61 11.01
6	6.6		5.07	11.67	t.p.?		. .	gr
7	6.1		5.08	11.78	t.		. .	F
8	7.1		5.24	12.94				
9	7.9		5.28	13.18				
10	8.3		5.42	13.72				
11	8.5		5.49	13.99				
12	8.6	8.6	8.60 00	5.54 14.14				
13	def.?	def.	.	. def.?				
14	9.3	9.4 9.3	9.33 010	5.90 15.23				
15	9.5	9.3 9.4	9.40 11.0	5.96 15.36				
16	9.7	9.6	9.65 10	6.10 15.75				
17	9.7	9.6	9.65 10	6.10 15.75				

Ch. F. 6.

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Wednesday November 25, 1914.

Cand.

Scale ″ Series 3/22 Copeland.

Mc 6886 Z Androm. 23 36 +47.5 (not at center of fld.)

alt. +22

			Curve.	Magn.	P.C.			Curve.	Magn.
a	3.6				1.4	1.3	7.35 0.1	1.35	8.70
b	4.3		4.71	9.01	1.5	1.5	7.50 0.0	1.36	8.86
c	4.5		4.76	9.26	1.7	1.7	7.70 0.0	1.38	9.08
d	4.6		4.78	9.38	1.7	1.7	7.70 0.0	1.38	9.08
e	4.8		4.82	9.62	8.4	8.5	8.45 0.1	1.46	9.91
f	5.4	5.4	5.40 0.0	4.92	10.32	8.7	8.7	8.70 0.0	1.50	10.20
g	5.1	5.2	5.15 1.0	4.88	10.03	8.7	8.7	8.70 0.0	1.50	10.20
h	5.6			4.95	10.55	9.4			1.60	11.00
k	5.8			4.96	10.76	9.7			1.66	11.36
l	6.7	6.7	6.70 0.0	5.07	11.77					
l′	7.1	7.1	7.10 0.0	5.13	12.23					
m	6.9	6.9	6.90 0.0	5.09	11.99					
n	7.2			5.14	12.34					
o	7.6			5.21	12.81					
p	7.7	7.8	7.75 1.0	5.25	13.00					
q	8.3	8.3	8.30 0.0	5.42	13.72					
r	8.6	8.8	8.70 1.1	5.58	14.28					
s	9.5	9.5	9.50 0.0	6.02	15.52					
t	9.8	9.7	9.75 0.1	6.18	15.93					
Var.	4.1	B.		4.66	8.76	7.6			1.37	8.97

Ch. F.C.

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Wednesday, November 25, 1914.

Card.

Scale U Series 31 2- Copied.

Mc 6887 *U. Cephei 0 0 +80.0

Alt +11

	β			Coarse Magn		G.C. poor. 5.3?			1.15	6.45?
Offplate	α									
	a	B.				5.5	5.6	555 10	1.18	6.73
	b	B.				5.6	5.1	565 01	1.18	6.83
	c	3.5				5.1	6.4	605 34	1.22	7.27
	d	3.9		4.63	8.53	7.3 poor	7.2	725 10	1.24 (3 2)	8.49 (5 4)
	d'	3.1		4.58	8.28	6.6	6.7	665 01	1.29	7.94
	e	3.5				6.4			1.26	7.66
	f	4.2		4.68	8.88	7.4			1.35	8.75
	g	4.1		4.66	8.76	7.5			1.36	8.86
(w.s.)	h	4.3 ~~4.1~~		4.71	9.01	~~8.1~~ 8.2			1.44	9.64
	h'	4.5		4.76	9.26	7.7			1.39	9.09
	k	4.6		4.78	9.38	7.6			1.37	8.97
	l	5.3		4.90	10.20	9.2			1.58	10.78
	m	4.1		4.79	9.49	8.6			1.49	10.09
	m'	4.6		4.78	9.38	8.4			1.45	9.85
	n	5.1		4.87	9.97	8.6			1.49	10.09
	o	4.1		4.79	9.49	8.1			1.50	10.20
	p	4.9	4.1	4.80 11	4.82	9.62	8.8		1.52	10.32
	q	5.4	5.1	5.25 21	4.89	10.14	9.4		1.61	11.01
	r	5.5	5.5	5.50 00	4.93	10.43	9.6		1.64	11.24
	s	5.6	5.6'	5.60 00	4.94	10.54	9.4		1.61	11.01
	t	5.6	5.6	5.60 00	4.94	10.54	9.6		1.64	11.24
Var.	B.						5.1		1.18	6.86

α, c, b' are offplate

(see also next page) leh. F.C.

*U Cephei is near edge of plate, but seq. measured according to instructions from H.S.L. - no ff letters added.

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1914phae.proj.10630

Wednesday November 25, 1914.

Card.

Scale II

Series 3 1/2.

Mc 6887 | Cont. ~~9 21 K~~ | ~~0 5 1 + 0 2~~

Alt. + 11

Ref. Seq. for centre of plate.				Curve.	Magn.	P.C.		Curve.	Magn.
1	4.5			4.76	9.26	7.6 7.7	7.65 01	1.38	9.03
2	5.0			4.84	9.84	8.6 8.7	8.65 01	1.49	10.14
3	5.5			4.93	10.43	9.1 8.9	9.00 11	1.54	10.54
4	5.8			4.97	10.77	9.4 9.4	9.40 00	1.61	11.01
5	5.9			4.98	10.88	9.6 9.5	9.55 01	1.63	11.18
6	6.5			5.06	11.56	10.1		1.72	11.82
7	6.6			5.07	11.67	10.1?		1.72	11.82
8	6.7			5.08	11.78	n.s.			
9	7.4			5.17	12.57				
10	7.5			5.18	12.68				
11	7.6			5.22	12.82				
12	7.8			5.26	13.06				
13	8.2			5.38	13.58				
14	8.5			5.50	14.00				
15	8.8			5.62	14.42				
16	8.9	9.1	9.00 11	5.71	14.71				
17	9.3	9.4	9.35 10	5.92	15.27				
18	9.6	9.6	9.60 00	6.08	15.68				
19	9.8	9.7	9.75 01	6.20	15.95				
20	9.8	9.8	9.80 00	6.24	16.04				

Ch. F.6.

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Wednesday, November 25, 1914.

Card.

Scale 2

Series 392. Copied.

Mc 6888 92 K 0h 51 +0.2

A.e. Alt. +.4

				Curve.	Magn			Curve.	Magn
1	3.1			4.57	8.27 ?	6.6	6.7	6.65 .01	1.29 7.94
2	3.9			4.62	8.52 ?	6.9	6.7	6.80 .11	1.31 8.18
3	3.9			4.62	8.52 ?	7.4	7.4	7.40 .00	1.36 8.76
4	4.8			4.82	9.62	8.4	8.5	8.45 .01	1.47 9.92
5	5.6			4.95	10.55	9.1	8.8	8.95 .12	1.54 10.49
6	5.7			4.96	10.66	· almost sup.			
7	6.4			5.04	11.44	9.6? very poor		1.64	11.24 qs
8	6.5			5.05	11.55	10.1?		1.72	11.82
9	6.7			5.08	11.78				
10	7.4			5.17	12.57				
11	7.6			5.21	12.81				
12	7.5	7.6	7.55 .10	5.20	12.75				
13	7.9	7.1	7.80 .11	5.26	13.06				
14	8.6	8.6	8.60 .00	5.54	14.14				
15	9.1	9.3	9.20 .11	5.82	15.02				
16	9.1	9.6	9.65 .10	6.10	15.75				

Remeasured. Dec. 14, 1915

sc 2

5 5.6

6 5.7 Measures above O.K.

7 6.3

Remeas. Dec. 14, 1915

sc 2

11 7.6

12 7.6 } Discordance probably ~~due to~~ accidental Error.

13 7.8

14 8.6

Eh. F.C.

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1914phae.proj.10630

Wednesday November 25, 1914.

Scale

Series 372.

	Mc 6889	Pole-	
			Be.
5			5.5 5.5 5.50 00
6			5.7 5.7 5.70 00
8			6.8 6.7 6.75 01
9			7.6 7.6 7.60 00
10	4.6		7.6 7.6 7.60 00
11	4.7		8.2
12	5.4		8.4
13	5.5		8.6
14	5.7		8.9
15	6.0		9.4
16	6.4		9.7
17	6.6		9.9
18	6.8		☁
19	7.4		m.c.
20	7.5		
23	7.8		
25	8.4		
26	8.7 8.7	8.70 00	
27	8.7 8.7	8.70 00	
28	9.4 9.3	9.35 01	
29	9.6 9.6	9.60 00	
30	9.7 9.7	9.70 00	
31	☁ ☁		
32	m.s. m.s.		

Sept. 1914

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1914phae.proj.10630

Wednesday November 25, 1914.

Card

Scale U

copied.

MC 6890 Cards 1 + 39.5

Att. +22

				Curve.	Magn.	O.C.			Curve.	Magn.
1	B.					5.6	5.5	5.55 .01	1.18	6.73
2	3.1			4.57	8.27 ? e	6.6	6.5	6.55 .01	1.29	7.84
3	4.0			4.64	8.64 ? e	7.2	7.3	7.25 .01	1.34	8.59
4	4.5			4.76	9.26	7.5	7.4	7.45 .10	1.36	8.81
5	4.6			4.78	9.38	8.2	8.2	8.20 .00	1.44	9.64
6	4.7			4.79	9.49	8.4			1.46	9.86
7	5.5			4.93	10.43	8.7			1.50	10.20
8	5.5			4.93	10.43	9.2			1.58	10.78
9	5.9			4.98	10.88	9.6			1.64	11.24
10	6.5			5.05	11.55	F.			.	F
11	6.7			5.08	11.78					
12	7.6			5.21	12.81					
13	7.5			5.18	12.68					
14	7.7			5.23	12.93					
15	8.4			5.46	13.86					
16	8.5			5.50	14.00					
17	8.5			5.50	14.00					
18	8.7	8.8	8.75	.10	5.62	14.37				
19	8.8	8.7	8.75	.01	5.62	14.37				
20	9.3	9.4	9.35	.10	5.92	15.27				
21	9.4	9.6	9.50	.11	6.02	15.52				
22	9.9	9.9	9.90	.00	6.28	16.18				

Bh. F.b.

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1914phae.proj.10630

Wednesday November 25, 1914.

Card

Scale u — Series 372 - Entered

me 6891 — 211K — 1 36 +45.1 Alt. +22

Alt. +22

				Curve.	Magn.	O.E. -			Curve.	Magn.
1	3.0			.	.	5.8	5.7	5.75 01	1.19	6.94
2	3.5			.	.	6.5	6.4	6.45 10	1.27	7.72
ε = 3	4.5			4.76	9.26	8.2	8.1	8.15 01	1.43	9.58
4	4.7			4.79	9.49	8.5	8.4	8.45 10	1.47	9.92
5	5.3			4.89	10.19	8.6	8.6	8.60 00	1.49	10.09
6	5.6			4.95	10.55	9.6?			1.64	11.24?
7	5.7			4.96	10.66	8.6 sup.?			,	,
8	6.1			5.02	11.12	9.7			1.65	11.35
9	6.1			5.08	11.78	ns			,	,
10	7.4			5.17	12.57					
11	7.7			5.23	12.93					
12	8.4			5.45	13.85					
13	8.6			5.54	14.14					
14	8.6	8.6	8.60 00	5.54	14.14					
15	8.7	8.7	8.70 00	5.58	14.28					
16	9.1	9.3	9.20 11	5.83	15.03					
17	9.5	9.5	9.50 00	6.02	15.52					
18	9.7	9.7	9.70 00	6.15	15.85					
α	B.					5.6	5.6	5.60 00	1.18	6.78
β	3.6					6.5	6.6	6.55 10	1.28	7.83
γ	B.					5.5	5.5	5.50 00	1.17	6.67
δ	4.4			4.74	9.14	7.6	7.5	7.55 01	1.36	8.91

δ = ε

Ch. S.C.

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Wednesday November 25, 1914.

Scale R Series 3/2 Copied Card.

Mc 6892 Carte 2 0 +31.5

Alt +20

				Curve.	Magn	C.C.			Curve.	Magn
1	4.4			4.74	9.14	1.4	1.4	7.40 00	1.35	8.75
2	4.5			4.76	9.26	1.6	1.6	7.60 00	1.37	8.97
3	4.5			4.76	9.26	1.6	1.6	7.60 00	1.37	8.97
4	4.6			4.78	9.38	8.3	8.1	8.20 11	1.44	9.64
5	4.7			4.79	9.49	8.4	8.4	8.40 00	1.46	9.86
6	5.5			4.93	10.43	8.7			1.50	10.20
7	5.6			4.95	10.55	8.8			1.52	10.32
8	5.6			4.95	10.65	8.8			1.52	10.32
9	6.2			5.03	11.23	9.4			1.61	11.01
10	6.3			5.04	11.34	9.6			1.64	11.24
11	6.6			5.07	1167	n.s.			,	,
12	7.1			513	1223					
13	7.6			5.21	12.81					
14	8.1			5.34	13.44					
15	8.4			5.45	1385					
16	8.4			5.45	1385					
17	8.6			5.54	14.14					
18	9.2	9.2	9.20 00	583	15.03					
19	9.2	9.0	9.10 11	575	1485					
20	9.3	9.3	9.30 00	590	15.20					
21	9.4	9.4	9.40 00	596	15.36					
22	9.8	9.8	9.80 00	623	16.03					

eh. F.C.

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Wednesday November 25. 1914.

Card.

Scale W

Series 372. Copied.

Me 6893 Cluster Perseus 2 15+56.7 Att. +20

				Curve.	Magn.	P.E.			Curve.	Magn.
1	G					5.4	5.5	5.45 01	1.16	6.61
2	3.0					5.7	6.1	5.90 22	1.20	7.10
3	3.5					6.5	6.5	6.50 00	1.28	7.78
4	3.6					6.7	6.7	6.70 00	1.30	8.00
5	4.4			4.74	9.14	7.4	7.5	7.45 01	1.36	8.81
6	4.6			4.78	9.38	8.2			1.44	9.64
7	4.9			4.83	9.73	8.4			1.46	9.86
8	5.5			4.93	10.43	8.7			1.50	10.20
9	5.6			4.95	10.55	9.1			1.57	10.67
10	6.1			5.02	11.12	9.7			1.65	11.35
11	6.3			5.04	11.34	9.8			1.67	11.47
12	6.5			5.06	11.56	F.			,	,
13	6.6			5.07	11.67	n.s.			,	,
14	7.4			5.17	12.57					
15	7.7			5.23	12.93					
16	8.4			5.45	13.85					
17	8.4			5.445	13.85					
18	8.8	8.7	8.6	8.70 101	5.58	14.28				
19	8.8		8.8	8.80 00	5.63	14.43				
20	9.4		9.4	9.40 00	5.96	15.36				
21	9.5		9.6	9.55 10	6.07	15.62				
22	9.6		9.6	9.60 00	6.08	15.68				
23	F.		F.	,	,	F				
24	n.s.			1	,	,				

reject

bh. F.C.

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Friday November 27, 1914.

Scale R Series 371.

10: 1.005 MC 6815 Pole.

			Diff	A.C.			Diff
5				5.6	5.5	5.55 .01	0.94
6				def.	def.	,	,
8				7.2	7.1	7.15 .01	1.08
9				7.6	7.6	7.60 .00	1.23
10	4.5		4.52	7.7	7.7	7.70 .00	1.32
11	4.6		4.95	8.2			1.35
12	4.8		5.06	8.5			1.36
13	5.5		4.80	8.1			1.60
14	5.6		5.05	9.3			1.35
15	6.1		4.98	9.4			1.68
16	6.4		5.00	9.8			1.60
17	6.5		5.13	9.9			1.73
18	6.7		5.36	f.			,
19	7.3		5.12	m.s.			,
20	7.6		5.13				
23	7.9		5.44				
25	8.5	8.4	8.45 .10 5.42				
26	8.7	8.7	8.70 .00 5.63				
27	~~9.4~~	def?	, ,				
28	9.4	9.4	9.40 .00 5.71				
29	9.7	9.7	9.70 .00 5.96				
30	f.	f.	, ,				
31	m.s.		, ,				
32							

reject Im looks defective.

Ch. F. C.

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Friday November 27, 1914.

Scale 11

Series 371 - Copied

Mc 6876 | 21 K | 1 36 +45.1 Alt. +23

Alt. +23

				Curve.	Magn.	P.C.			Curve.	Magn.
1	3.4					5.1	5.6	5.65 10	0.89	6.54
2	3.4					6.5	6.5	6.50 00	0.99	7.49
ε = 3	4.5			4.73	9.23	7.9	8.1	8.00 11	1.27	9.27
4	4.7			4.75	9.45	8.5	8.5	8.50 00	1.37	9.87
5	5.1			4.82	9.92	8.6	8.7	8.65 01	1.39	10.04
6	5.1			4.90	10.60	9.5			1.59	11.09
7	5.9			4.93	10.83	partly sat.?			.	.
8	6.5			5.04	11.54	~~P~~ t.p. (elongated)			.	g
9	7.3			5.18	12.48					
10	7.5			5.23	12.73					
11	7.9			5.32	13.22					
12	8.4			5.45	13.85					
13	8.5			5.48	13.98					
14	8.6	8.6	8.60 00	5.52	14.12					
15	8.6	8.7	8.65 01	5.53	14.18					
16	9.2	9.4	9.30 11	5.76	15.06					
17	9.6	9.5	9.55 01	5.86	15.41					
18	9.6	9.5	9.55 01	5.86	15.41					
α	3.1					5.1	5.1	5.70 00	0.90	6.60
β	3.6					6.1	6.1	6.70 00	1.03	7.73
γ	①					5.6	5.5	5.55 01	0.89	6.44
δ	4.5		~~4.73~~	4.73	9.23	7.6	7.6	7.60 00	1.19	8.79
ε										

Very close to bright star

See above 3 = ε

Renews Jan. 11, 1915.

	Pr	
5	5.4	8.7
6	5.7	9.7
7	6.0	

Ch. F. 6.

W Reid

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1914phae.proj.10630

Friday November 27, 1914.

Scale V

m☆ Series 305

m☆ 6080 Pole

	sc.2	sc.3		m☆ 6085 Mean + 210	Diff.	C.C. sc.3		m☆ 6085 + 210		Diff
5	2.6 (2.7)			3.5	3.10 44	3.39	7.5	7.4	7.45 10	7.70	7.58 12	-1.09
6	3.6 (3.7)			4.5	4.10 44	3.01	7.8	7.8	7.80 00	8.35	8.08 28 27	-0.97
8	6.3 (6.4)	6.5	6.45 01	6.45	6.45 0000	1.78	9.4	9.4	9.40 00	9.45	9.42 02 03	-1.19
9	6.9 (7.0)	7.3	7.15 21	7.15	7.15 0000	1.68	9.9	9.6	9.75 12	9.90	9.82 07 08	-0.99
10		7.4		7.4	7.40 00	1.62	9.9	9.9	9.90 00	10.05	9.98 08 07	-0.96
11		7.7		7.7	7.70 00	1.85	10.1				10.10 a.	-0.55
12		8.3		8.3	8.30 00	1.56						
13		8.4		8.4	8.40 00	1.90						
14		8.6	8.7	8.65 01	8.75	8.70 05 05	1.95					
15		9.2	9.2	9.20 00	9.35	9.28 08 07	1.80					
16		9.5	9.5	9.50 00	9.50	9.50 00 00	1.90					
17		9.6	9.6	9.60 00	9.70	9.65 05 05	1.98					
18		9.8	9.9	9.85 01	9.90	9.88 03 02	2.18					
19		∓	m.s.	,	,	,	,					
20		m.s.		,	,	,	,					
23												
25												
26												
27												
28												

bh. P.C. bh. P.C.

915.

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Friday November 21, 1914.

Scale V

Mt Series 305 Copied.

M D 6081 ☆11 21 – 15°

	Sc.2	Sc3			Curve	Magn	Sc.3	Sc3		Curve	Magn
☆1	4.9	5.0			.46 2.52	.6 7.42	8.4	8.4	8.40	00 – 1.1	7.29
2	5.4	5.7			.3 2.17	.83 7.77	8.7	8.6	8.65	10 – 1.11	7.54
*3	~~5.6~~	~~3.7~~ ~~4.1~~			~~.6 2.97~~	~~7.01 6.97~~	~~7.6~~	~~7.6~~	~~7.60~~	~~00 – 1.05 6.55~~	
4	5.8	5.9 6.3		.10 6.05	.6 1.98	.6 8.04	8.7	9.1	8.90	22 – 1.10	7.80
5	5.7	5.8 6.1		.5 5.94	.2 2.05	.7 7.95	9.1	8.9	9.00	11 – 1.10	7.90
6	6.0	6.1 6.3		.20 6.15	.1 1.93	.13 8.08	8.9?	noon 9.1	9.00	11 – 1.10	7.90 ?
7	6.2	6.3 6.4		.5 6.30	.0 1.89	.23 8.79	9.2			– 1.09	8.11
8	6.3	6.4 6.5		.5 6.44	.1 1.86	.30 8.26	9.4			– 1.07	8.33
9	6.5	6.6 6.5		.5 6.54	.1 1.88	.7 8.33	9.5			– 1.06	8.44
10	6.5	6.6 6.7		.5 6.60	.0 1.88	.5 8.44	9.5			– 1.06	8.44
11	6.5	6.6 6.8		.70 6.85	.8 1.79	.8 8.44	9.5			– 1.06	8.44
12		7.5			1.68 ~~1.74~~	9.18	9.7			– 1.01	8.69
13		7.5			1.68 ~~1.74~~	9.18	9.9			– 0.95	8.95
14		7.7			1.68 ~~1.74~~	9.38	n.s.				
15		8.1			.1 1.77	9.81	n.s.				
16		7.8	7.8	7.80 00		1.68 9.48					
17		8.6	8.6	8.60 00		1.77 10.37					
18		8.5	8.4	8.45 10		1.74 10.19					
19		8.3	8.3	8.30 00		1.73 10.03					
20		8.5	8.5	8.50 00		1.74 10.24					
21		8.5				1.74 10.24					
22		8.4				1.73 10.13					
23		8.8	8.9	8.85 01		1.81 10.66					
24		8.6	8.6	8.60 00		1.77 10.37					
25		9.1	9.3	9.20 11		1.86 11.06					
26		9.4	9.4	9.40 00		1.93 11.33					

* Wrong star marked and measured. ○ May 25, 1915.
Repeated .L. May 25, 1915

Ch. P.C.

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1914phae.proj.10630

Friday November 27, 1914.

Scale 1"

MS Series 305

MD #6081 cont.

		sc.3	sc.3			
27		9.7	9.7	9700 00	193	11.33
28		~~9.7~~	def.?	"	"	"
29		10.0	10.0	1000 00	2.10	12.10
30		m.s.		"		
31						Ch. P.C.

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1914phae.proj.10630

Friday November 21, 1914-

Scale V

MD Series 305

MD 6085

Pole.

P.C.

	sc.2	sc.3	sc.3		sc.3	sc.3	
5	3.4 35				7.1	7.1	7.70 00
6	4.4 45	B.			8.3	8.4	8.35 10
8	6.4 65	6.4		6.45 10	9.4	9.5	9.45 01
9	6.9 70	7.3		7.15 21	9.9	9.9	9.90 00
10		7.4			10.0	10.1	10.05 01
11		7.1			n.s.		
12		8.3					
13		8.4					
14		8.1	8.8	8.75 10			
15		9.4	9.3	9.35 01			
16		9.5	9.5	9.50 00			
17		9.1	9.1	9.70 00			
18		9.9	9.9	9.90 00			
19		f.					
20		n.s.					
23							
25							
26							
27							
28							
29							
30							

See p. 207

11:25

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1914phae.proj.10630

Saturday November 28, 1914.

Scale M

MD Series 14.

9:50 MD 3192 Pole.

G.C.

		pc.1	pc.2		MD 3196 +213	MD 3202 +215	Mean	Diff	pc.2			MD 3196	MD 3202	Mean	Diff
		37½					.60 .2 .89								
not comp.	5	3.5?			3.7	3.4	3.55 .12 2.84	1.4 1.4	7.40 00	7.40	7.30	7.37	03 03 07	-088	
" "	6	4.5? 47½			4.50	4.25	4.48 .03 .63	1.9 8.2	8.05 .12	7.80	7.85	7.90	15 10 05	-079	
	8	5.6 58	5.8	5.80 00	6.05	6.00	5.95 .15 10 05	2.28 8.1 8.1	8.70 00	8.75	9.25	8.90	20 15 35	-077	6
	9	6.6 68	6.8	6.80 00	7.05	6.65	6.83 .03 22 18	2.00 9.4 9.4	9.40 00	9.65	9.70	9.58	18 07 12	-075	
	10		7.4		7.20	6.75	7.12 .28 08 37	1.90 9.6 9.6	9.60 00	9[illegible]	9.95	9.78	18 9.17	-076	
	11		7.6		7.6	7.5	7.57 .00 1	1.98 9.9	.	10.0	9	9.95	1 .0	-040	
	12		7.9		7.9	7.8	7.87 .00 1	1.99		9	,				
	13		8.3		8.4	8.4	8.37 1.00	1.93 m.s.		,	,				
	14		8.5		8.55	8.6	8.53 .30	2.05 2.10							
	15		8.9	8.9	8.90 00	8.75	9.05 8.90 .00	15 15 2.88							
	16		9.3	9.21	9.25 10	8.90	9.40 9.18 .07	28 22 2.22							
	17		def?	def.	,	9.35	9.50 9.42 .	07 08 2.21							
	18		9.6	9.6	9.60 00	9.75	9.90 9.75	15 00 15 2.31							
	19		½	½	,	½	½								
	20		m.s.	m.s.	,	,	,								
	23														
	25														
	26														
	29														

leh. P.C.

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Scale M

M D Series 74. Copied.

MD 3194 D8 15h −15°

Alt. 18 Q.e.

	Sc.1	Sc.2	Sc.2		Curve	Magn	Sc.2	Sc.2		Curve	Magn
1	5.5 5.8	5.4		5.45 10	2.35	7.80	8.3	8.3	8.30 00	−0.85	7.45
2	5.6 5.4	5.5		5.55 01	2.33	7.88	8.6	8.6	8.60 00	−0.82	7.78
3	5.7 5.5	5 8.6		5.65 10	2.31	7.96	8.5	8.6	8.55 10	−0.83	7.72
4	def.	def.		.	.	def.	8.6	8.6	8.60 00	−0.82	7.78
5	5.9 5.7	5.8		5.85 10	2.26	8.11	8.6	8.6	8.60 00	−0.82	7.78
6	6.3 6.5	6.4		6.45 10	2.13	8.58	8.9			−0.79	8.11
7	6.5 6.7	6.5		6.60 11	2.11	8.71	8.9			−0.79	8.11
8	6.1 6.3	6.3		6.30 00	2.17	8.47	8.8			−0.81	7.99
9	6.6 6.6	6.6		6.60 00	2.11	8.71	9.1			−0.77	8.33
10	6.9 6.9	6.8		6.85 10	2.07	8.92	9.5			−0.70	8.80
11		7.5			1.99	7.49	9.6			−0.67	8.93
12		7.4			2.00	9.40	9.8			−0.61	9.19
13		7.6			1.99	9.59	9.9			−0.56	9.34
14		8.2			1.99	10.19	n.s.			.	.
15		8.4			2.01	10.41					
16		8.4			2.01	10.41					
17		8.6			2.05	10.65					
18		8.1			2.07	10.77					
19		8.1			2.07	10.77					
20		9.1			2.15	11.25					
21		9.4	9.4	9.40 00	2.24	11.64					
22		9.6	9.4	9.50 11	2.29	11.79					
23		9.3	9.4	9.35 10	2.23	11.58					
24		9.8	9.6	9.70 11	2.34	12.04					
25		9.9	10.0	9.95 10		.					
26		‡	‡	"		.					
27		n.s.									

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Scale M

MD Series 74.

MD 3196 Pole.

	RC.1	RO.2	RO.2		RC.2		
5	3.5				7.4	7.4	7.40 .00
6	4.7	4.4		4.50 .11	7.9	7.1	7.80 .11
8	5.8	6.1		6.05 .01	8.8	8.1	8.75 .01
9	6.8	7.1		7.05 .01	9.6	9.1	9.65 .01
10	6.9	7.3		7.20 .11	tf.	tf.	,
11		7.6			10.0		
12	~~4.9~~ 7.1	7.9			f.		
13		8.4			n.s.		
14		8.6	8.5	8.55 .01			
15		8.8	8.7	8.75 .01			
16		9.0	8.8	8.90 .11			
17		9.4	9.3	9.35 .01			
18		9.7	9.8	9.75 .10			
19		f.	f.	,			
20		n.s.		,			
23							
25							
26							

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Scale M

MD Series 74. Copied.

MD 3201 #9 17 -15°

Alt -18 QC.

	pc.1	pc.2	pc.2		Curve	Magn	pc.2	pc.2	Curve	Magn
1	4.9 4.6	4.9		4.85 .01	2.53	7.38	8.6	8.5	8.55 .01 -0.83	7.72
2	5.4 5.2	5.4		5.40 .00	2.35	7.75	8.1	8.1	8.70 .00 -0.81	7.89
3	5.3 5.1	5.3		5.30 .00	2.38	7.68	8.1	8.1	8.70 .00 -0.81	7.89
4	5.1 4.9	5.3		5.20 .11	2.41	7.61	8.1	8.1	8.70 .00 -0.81	7.89
5	5.7 5.5	5.6		5.65 .10	2.30	7.95	9.1	9.1	9.10 .00 -0.77	8.33
6	6.5 6.3	6.4		6.45 .10	2.13	8.58	9.4		-0.73	8.67
7	6.6 6.4	6.6		6.60 .00	2.11	8.71	9.1		-0.65	9.05
8	6.0 5.8	6.2		6.10 .11	2.21	8.31	9.3		-0.75	8.85
9	5.9 5.7	5.9		5.90 .00	2.25	8.15	9.5		-0.70	8.80
10		7.5			1.99	9.49	10.0		-0.53	9.47
11		7.6			1.99	9.59				
12		7.7			1.99	9.69				
13		7.6			1.99	9.59				
14		8.4			~~1.99~~ 2.01	10.41				
15		8.3			2.00	10.30				
16		8.5	8.4	8.45 .10	2.02	10.47				
17		8.1	8.2	8.15 .10	1.99	10.14				
18		8.1			2.07	10.77				
19		8.6			2.06	10.66				
20		8.6			2.06	10.66				
21		8.1			2.07	10.77				
22		8.8	8.8	8.80 .00	2.09	10.89				
23		9.5	9.5	9.50 .00	2.29	11.79				
24		9.7	9.8	9.75 .10	2.36	12.11				
25		9.9	9.9	9.90 .00						
26		9.8	9.8	9.80 .00	2.38	12.18				
27		F	F			F				
28		~ S.	~ S.							

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Saturday November 28, 1914.

Scale m. MD Series 74.

MD 32021 Pole - G.C.

	AC 1	AC 2	AC 2		AC 2		
5	3.2 (34)				1.4	1.2	7.30 ·11
6	4.1 (43)	4.2		4.25 ·10	1.9	1.8	7.85 ·10
8	5.1 (59)	6.1		6.00 ·11	9.3	9.2	9.25 ·10
9	6.4 (66)	6.1		6.65 ·01	9.1	9.1	9.70 ·00
10	6.6 (68)	6.1		6.75 ·01	9.9	10.0	9.95 ·10
11		7.5			1.		
12		7.8			m.s.		
13		8.4					
14		8.6	8.6	8.60 ·00			
15		9.2	8.9	9.05 ·21			
16		9.4	9.4	9.40 ·00			
17		9.5	9.5	9.50 ·00			
18		9.9	9.9	9.90 ·00			
19		1.	1.				
20		m.s.					
23							
25							
26							
27							
28							

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Saturday November 28, 1914.

Scale M - 1

MD Series 126.

MD 3881 Pole -

P.C.

	pc.1	pc.2	pc.2	MD 3886 fv 218	Mean	Diff	pc.2	pc.2		MD 3886 fv 218		
5	3.1 2.9			2.9	3.00	11 3.49	1.4	1.4	7.40 0 0	7.40	7.40	00 0 0 - 0.91
6	4.3 4.1	4.1		4.20 11 3.8	4.00	20 20 3.11	8.4	8.5	8.45 0 1	8.20	8.32	13 12 - 1.21
8	5.8 5.6	6.1		5.95 21 6.00	5.98	13 02 2.25	9.6	9.5	9.55 0 1	9.40	9.48	07 08 - 1.25
9	6.8 6.6	6.9		6.85 01 6.75	6.80	05 05 2.03	F.	F.	,	9.95	9.95	, a - 1.12
10	6.9 6.7	7.1		7.00 11 7.20	7.10	10 10 1.92	m.s.	,	F	,	,	
11		7.7		7.6	7.65	1 0 1.90						
12		8.2		8.2	8.20	00 1.66						
13		8.6	8.6	8.60 00 8.55	8.58	02 03 1.72						
14		8.9	8.8	8.85 10 8.75	8.80	05 05 1.85						
15		9.5	9.4	9.45 10 9.40	9.42	03 02 1.66						
16		9.8	9.8	9.80 00 9.65	9.72	08 07 1.68						
17		9.1	9.9	9.80 11 9.75	9.78	02 03 1.85						
18		F.	F	, F	F	,						
19		m.s.	m.c.	, ,	,	,						
20												
23												
25												
26												
29												

ch. P.C.

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Scale M. MA Series 126. Copied.

MA 3884 D12 23 −15°

Qe.

		RC 1	RC 2	RC 2		Curve	Magn	RC 2			Curve	Magn
not comp.	1	5.5 5.7				2.37	8.07	9.4	9.4	9.40 0.0	−1.25	8.15
	2	4.9 4.1	5.2		5.05 1.2	2.62	7.67	8.6	8.1	8.65 0.1	−1.24	7.41
	3	6.0 5.8	5.8		5.90 1.1	2.28	8.18	9.9	9.1	9.80 1.1	−1.18	8.62
	4	6.7 6.5	6.6		6.65 1.0	2.06	8.71	10.0?	1.	10.00 a.	−1.14	8.86 ?
	5	5.9 5.7	6.2		6.05 1.2	2.24	8.29	9.1	9.6	9.65 1.0	−1.23	8.42
	6	6.7 6.5	6.7		6.70 0.0	2.03	8.73	10.0?		10.00 a.	−1.14	8.86 ?
	7	7.2 7.0	7.1		7.15 0.1	1.93	9.08					
	8		7.4			1.88	9.28					
	9		7.9	7.7	7.80 1.1	1.83 ~~.032~~	9.63 ~~10.12~~					
	10		7.8	7.9	7.85 0.1	1.82 ~~.031~~	9.67 ~~10.16~~					
	11		8.1			1.78 ~~.027~~	9.88 ~~10.38~~					
	12		7.9			1.81 ~~.031~~	9.71 ~~10.21~~					
	13		7.8			1.83 ~~.032~~	9.63 ~~10.12~~					
	14		8.1			1.70 ~~.021~~	10.40 ~~10.91~~					
	15		8.6			1.72 ~~.022~~	10.32 ~~10.82~~					
w. unit.	16		8.1			1.71 ~~.021~~	10.41 ~~10.91~~					
	16a		9.4			1.71 ~~.021~~	11.11 ~~11.61~~					
	17		9.1			1.75 ~~.025~~	11.45 ~~11.95~~					
	18		9.1	9.1	9.70 0.0	1.75 ~~.025~~	11.45 ~~11.95~~					
	19		9.6	9.1	9.65 0.1	1.73 ~~.023~~	11.38 ~~11.88~~					
	20		10.0	9.8	9.90 1.1	1.81 ~~.031~~	11.71 ~~12.21~~					
	21		9.9	10.0	9.95 1.0	1.84 ~~.034~~	11.79 ~~12.29~~					
	22		10.0	10.1	10.05 0.1	1.87 ~~.036~~	11.82 ~~12.32~~					
	23		1.									
	24		1.									
	25		m. s.									
	26											

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Saturday November 28, 1914.

Scale M

MD Series 126

MD 3886 Pole -

	sc.1	sc.2	sc.2		G.C. sc.2	sc.2	
	29						
5	2.1				1.4	1.4	7.40 .00
6	38 3.6				8.2	8.2	8.20 .00
8	59 5.1	6.1		6.00 .1 .1	9.4	9.4	9.40 .00
9	68 6.6	6.1		6.75 .0 .1	9.9	10.0	9.95 .1 .0
10	70 6.8	1.4		7.20 .2 .2	1.		
11		1.6					
12		8.2					
13		8.6	8.5	8.55 .0 .1			
14		8.8	8.7	8.75 .0 .1			
15		9.4	9.4	9.40 .00			
16		9.6	9.1	9.65 .01			
17		9.1	9.8	9.75 .1 .0			
18		1.	1.	,			
19		m.s.		,			
20							
23							
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29							

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