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Observing Book 16.

M. E. O'Reilly.

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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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Thursday August 19, 1915

Scale R Series 421- Curve, Shut No. 208

9:51

	MC 7463		Pole- MC 7468						MC 7463 P.C.	MC 7468	
	pc.1	pc.2	pc.1	pc.2					pc.1	pc.2	
5+									8.4 8.1 8.1 8.8 25 2 1 7.8		-1.76
6									8.9 8.9 8.6 95 1 0 8.1		-1.84
8									10.7 10.65 1 0	10.6	-2.42
9									11.5 11.40 1 1	11.3	-2.57
								Diff			
10	6.4 6.1		6.4 6.1			6.40	0 0	2.62	11.85 11.45 1 0	11.4	-2.43
11	7.2 6.9		7.5 7.2			7.35	2 1	2.20	11.9 12.05 1 2	12.2	-2.50
12	7.5 7.3		7.7 7.4			7.60	1 1	2.26	12.1 12.30 2 2	12.5	-2.44
13	8.0 7.7	R.	8.4 8.1	8.3	8.35 0 1	8.18	18 17	2.12	12.7 13.00 3 3	13.3	-2.70
14	8.7 8.4	8.4	8.4 8.4	8.6	8.65 1 0	8.60	05 05	2.05	13.2	t.p.	-2.55
15	9.0 8.7	9.1	9.05 0 1	9.4		9.22	17 18	1.86	13.4 13.50 1 1	13.6	-2.42
16		9.6		9.8		9.70	1 1	1.70	↓	↓	
17		9.7		10.2		9.95	3 2	1.68			
18		10.4		10.5		10.45	0 1	1.61			
19		10.7		11.2		10.95	3 2	1.47			
20		11.3		11.3	11.4	11.35 11.32	02 03	1.41			
23		11.8	11.8 11.80	12.2	12.1	12.15 11.98	18 17	1.36			
25		12.5	12.3 12.40	12.7	12.6	12.65 12.52	12 13	1.35			
26		12.7	12.6 12.65	12.9	13.1	13.00 12.82	17 18	1.51			
27		13.1	13.2 13.15	13.4	13.4	13.40 13.28	13 12	1.41			
28		13.4	13.6 13.50	13.6	13.6	13.60 13.55	05 05	1.56			
29		13.9	13.9 13.90	↓		13.90	0 0	1.76	leh. F.C.		
30		↓	↓								

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Scale R. Series 421.

	mc 7463		Pole.	mc 7468.		Diff. Im.
	g	h		g	h	
	sc 1 sc 2	sc 1 sc 2		sc 1 sc 2	sc 1 sc 2	Diff.
5	t.f. 8.7	t.f. 8.8		.79 1.6 7.90 0 0	.79 1.6 8.9	7.90 ± a = .141
6	8.4 8.75 1 0	8.5		t.f.	8.6	8.82 07 08 .171
8	10.5 10.50 0 0	10.5		10.1 10.20 1 1	10.3	10.35 15 15 .212
9	11.1 10.95 1 2	10.8		10.6 10.60 0 0	10.6	10.78 17 18 .195
10	11.3 11.35 1 0	11.4		11.4 11.45 0 1	11.5	11.40 05 05 .238
11	11.6 11.65 0 1	11.7		t.f.	t.f.	11.65 a = .210
12	12.2 12.25 0 1	12.3		12.3 12.40 1 1	12.5	12.32 07 08 .246
13	12.7 12.65 1 0	12.6		12.6 12.60 0 0	12.6	12.62 03 02 .232
14	12.8 12.75 0 1	12.7		13.1 13.10 0 0	13.1	12.92 17 18 .227
15	13.5 13.55 1 0	13.6		13.5 13.45 1 0	13.4	13.50 05 05 .242
16	13.5 13.50 0 0	13.5		13.9	t.f.	13.70 20 20 .230
17	13.6 13.75 2 1	13.9		†	†	13.75 a = .212
18	†	t.f.				
19						
20						
23						

Ch. F.C.

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Card

Scale R

Series 421 - Copied

* Mc 7464 Carte $8^h +5.0^\circ$ Alt. Cor. +.10

	sc.1	sc.2	sc.3	Cm.	Magn	Diffr. Inv. 9^h sc.2	8^h sc.2		Cm.		P.C. sc.2	Cm	Magn
1	B.			.		9.5	9.4	9.45	⊥ 0	-.184	7.61	def.	.	
2	B.			.		11.1	11.2	11.15	⊥ 0	-.219	8.96	11.1	-.244	8.66
3	6.5 6.8			2.44	9.24	t.p.	t.p.	,		.	,	11.8	-.251	9.29
4	7.4 7.7	B.		2.19 22	9.89 92	12.3	12.4	12.35	⊥ 0	-.238	9.97	12.4	-.254	9.86
5	7.8 8.1	8.1	8.10	0 0	2.12	10.22	12.5	12.6	12.55	⊥ 0	-.239	10.16	12.9	-.252	10.38
6	8.1 8.4	8.1	8.25	2 1	2.08	10.33	12.5	12.6	12.55	⊥ 0	-.239	10.16	t.p.	.	.
7	8.5 8.8	8.6	8.70	1 1	.196	10.66	t.p.	t.p.		.	,	13.3	-.250	10.80
8	8.6 8.9	9.0	8.95	⊥ 0	.190	10.85	13.4	t.p.		-.236	11.04	near defect.		.
9	def.	.			.	.						.		
10		10.4			.156	11.96								
11		10.6			.152	12.12								
12		11.2			.142	12.62								
13		11.21			.142	12.62								
14		11.21			.142	12.62								
15		t.p.			.	.								
16		11.9	t.p.		.136	13.26								
17		12.2	12.4	12.30 ⊥ 1 0 1	.137	13.67								
18		12.4	12.5	12.45 0 0	.138	13.83								
19		13.1	13.1	13.10 0 1	.147	14.57								
20		13.6	13.5	13.55	.159	15.14								

Ch. F.C.

Pinholes ~~through~~ across center of fld. Affects some stars in Regiond. Should these measures be used?

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Mc 7465 Carte $8^h - 10^o$ Att. Corr. -11

Diffs. Inn. O.C.

	Rc.1			Curve.	Magn	g	h		Cu.	Magn	Rc.2	Cu.	Magn
1	B.			.		B.	10.6		-2.09	8.51	11.1	-2.44	8.66
2	B.			.		11.2	11.3	11.25	i o	-2.21	9.04	11.1	-2.44	8.66
3	6.2 (6.5)			2.52	9.02	11.5	11.4	11.45	i o	-2.24	9.21	11.5	-2.49	9.01
4	7.6 (7.9)	B.		2.18	10.08	12.3	12.4	12.35	i o	-2.38	9.97	12.6	-2.54	10.06
5	8.3 (8.6)	8.5	8.55	o i	2.00	10.55	t.p.	t.p.	.	.	.	13.4	-2.49	10.91
6		9.5			1.77	11.27	t.p.	t.p.	.	.	.	4.	.	.
7		10.1			1.62	11.72	t.p.	t.p.	.	.	.			
8		10.4			1.56	11.96	t.p.	14.0		-2.13	11.87			
9		10.6			1.52	12.12								
10		10.6			1.52	12.12								
11		11.1			1.44	12.54								
12		11.21			1.42	12.62								
13		11.5			1.39	12.89								
14		11.6			1.38	12.98								
15		12.2 (12.20 o o)			1.36	13.56								
16		12.2 12.2 (12.50 o o)			1.36	13.56								
17		12.5 12.5 (13.45 i o)			1.39	13.89								
18		13.0 13.4 (13.60 o o)			1.55	15.00								
19		13.6 13.6 (14.00 o o)			1.61	15.21								
20		14.0 14.0			1.79	15.79								

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Mc 7466 C 5 9 + 15 - Alt. Cor. +.7

P.C.

	sc.1	sc.2		Cu.	Magn	sc.1	sc.2	Cu	Magn
1	B			.		8.9 8.6		-1.94	6.96
2	B			.		10.4		-2.30 -2.25	8.10
3	B			.		t.p.		.	.
4	B			.		10.3		-2.29	8.01
4a	B.			.		10.6		-2.35	8.25
5	B.			.		11.1		-2.44	8.66
6	B.			.		11.5		-2.49	9.01
7	B.			.		11.4		-2.49	8.91
8	6.7 6.4			2.47	9.17	11.6		-2.50	9.10
9	6.9 6.6			2.42	9.32	12.9 -21		-2.54	9.66
10	7.3 7.0			2.32	9.62	12.4		-2.54	9.86
11	7.1 6.8			2.36	9.46	12.2		-2.54	9.66
12	7.5 7.1			2.20	10.00	t.p.		.	.
13	7.9 7.6			2.18	10.08	t.p.		.	.
14	7.9 7.6	8.1	8.00 ÷ 1	2.14	10.14	13.4		-2.49	10.91
14a	8.8 8.5	8.1	8.75 ÷ 1	1.95	10.70	t.p.		.	.
15	8.3 8.0	8.1	8.65 ÷ 1	1.98	10.63	13.5		-2.47	11.03
16		9.4		1.79	11.19				
17		9.6		1.74	11.34				
18		10.1		1.63	11.73				
19		10.4		57 1.62	11.97 ~~12.00~~				
20		10.3		1.58	11.88				
20a		10.1		1.50	12.20			leh. P.C.	
21		11.1		1.44	12.54				
22		11.6		1.38	12.98				
23		11.7		1.37	13.07				
24		12.1		1.35	13.45				

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MC 7466 C5. Aft. Corr. +.17

		Cor.	
25	12.1	1.71	14.11
26	12.9	1.44	14.34
27	do?	.	.
28	13.4. 13.50	1.54	14.94
28a	13.5 13.60 13.5	1.58	15.08
29	13.6 13.6	1.61	15.21
29a	" "	.	.
30			

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Scale R. Series 421 – topich.

MC 7466 — C85 cont. — Differ. Im.

Alt. Cor. +7

	g sc.1	g sc.2	h sc.1	C85 sc.2	Ca	Mgα
	8.7		8.6			
1	8.4	8.65	8.3		-1.65	7.00
2		10.3 10.25		10.2	-2.01	8.24
3 near Edge.		t.f.		t.f.	.	.
4	10.1			t.f.	-1.99	8.11
4a	10.5			t.f.	-2.08	8.42
5	10.6	10.60		10.6	-2.09	8.51
6	11.2			t.f.	-2.20	9.00
7	11.1			t.f.	-2.19	8.91
8	11.7	11.65		11.6	-2.28	9.37
9	11.8			t.f.	-2.31	9.49
10	12.2			t.f.	-2.37	9.83
11	12.1	12.15		12.2	-2.36	9.79
12	12.6	12.60		12.6	-2.40	10.20
13	12.7			t.f.	-2.40	10.30
14	12.8			t.f.	-2.40	10.40
14a	13.4			RCr.	-2.36	11.04
15	13.1	13.25		13.4	-2.38	10.87
16	13.4			t.f.	-2.36	11.04
17	↓			↓	.	.
18	↓			↓	.	.
19						
20						
20a	n.s.			n.s.		
21						
22						

lch. F.C.

"h" images do not compare well with scale.

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		mc 7461	D5	9 – 15°		
				P.C.	Alt. Cor. -19	
		sc 1 sc 2		sc 1 sc 2	Cor.	Magn
too near edge	1	.	.	.	.	
	2	B	.	10.1	-2.25	7.85
	3	t.f.	.	9.5	-2.09	7.41
	4	B.	.	10.1	-2.25	7.85
near edge.	5	t.f.	.	t.f.	.	.
	6	6.5 6.2	2.53	9.03	11.1 -2.44	8.66
	7	6.6 6.3	2.50	9.10	11.4 -2.48	8.92
	8	6.7 6.4	2.46	9.16	11.6? -2.50	9.10?
	9	6.6 6.8 6.3 6.5 6.70 1 1	2.46	9.16	t.f. .	.
	10	7.8 7.5	2.19	9.99	12.6 -2.54	10.06
	11	7.7 7.4 B.	2.23	9.93	t.f. .	.
	12	8.1 7.8 8.1	2.12	10.22	t.f. .	.
	13	8.5 8.2 8.4 8.45 1 0	2.02	10.47	t.f. .	.
	14	8.5 8.2 8.1 8.60 1 1	1.99	10.59	t.f. .	.
	15	9.2 8.9 9.2 9.20 0 0	1.84	11.04	13.4 -2.49	10.91
	16	8.8 8.5 9.1 8.95 2 1	1.90	10.85	13.2? -2.51	10.69?
	17	9.4	1.79	11.19	t. .	.
	18	9.5	1.76	11.26		
	19	9.1	1.72	11.42		
	20	10.4	1.56	11.96		
	21	10.1	1.51	12.21	Ch. F.C.	
	22	11.1	1.44	12.54		
	23	t.f. .01	.	.		
	24	11.2 11.3 11.25	1.41	12.66		
	25	11.6	1.38	12.98		
	26	11.7	1.38	13.08		

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Mc 1467 D5 cont.

Alt. Corr. -19

	sc.2	sc.2			Cw.	Magn
27	12.3				1.38	13.68
28	12.2				1.37	13.57
29	12.6				1.40	14.00
30	12.8				1.42	14.22
31	13.0				1.46	14.46
32	13.1	13.1	13.10	0 0	1.47	14.57
33 not comp with sc.	t.f.	t.f.	.		.	.
34	13.4	13.5	13.45	0 1	1.55	15.00
35	t.f.	t.f.	.		.	.
36	13.8	13.8	13.80	0 0	1.70	15.50
37	f	f.			.	.
b	10.6				1.52	12.12

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Scale R-

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		Mc 7464 g sc 1	Mc 7464 g sc 2	Mc 7464 h sc 1	Mc 7464 h sc 2	D 5 cont	Diffr. Inn. Alt. Bar. -19
Out of focus	1	9.9					
" "	2	9.6?		t.f.	-1.94	7.96	
" "	3						
" "	4	t.f.					
" "	5						
	6	11.1		t.f.	-2.19	8.91	
	7	11.3	11.35 L 0	11.4	-2.22	9.13	
	8	11.2	11.30 L 1	11.4?	-2.21	9.09?	
	9	11.6		t.f.	-2.28	9.32	
	10	t.f.		12.3	-2.38	9.92	
	11	t.f.		t.f.			
	12	12.2	12.30 L 1	12.4	-2.38	9.92	
	13	12.6	12.65 0 1	12.7?	-2.40	10.25?	
	14	13.3		t.f.	-2.37	10.93	
	15	~~13.4~~ big hole		13.5	-2.34	11.16	
	16	13.1		t.f.	-2.39	10.71	
	17	13.4	13.45 0 1	13.5	-2.35	11.10	
	18	t.f.		13.8	-2.22	11.58	
	19	t.f.		f.			
	20						
	21						

Ch. F.C.

12 : 15

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Friday August 27, 1915

Scale R 9:10 — Series 421 — Curve, Sheet No. 208.

Mc 7468 — Pole — Mc 7474

	sc.1	sc.2	sc.2	sc.1	sc.2	sc.2				P.C. sc.1	P.C. sc.2	P.C. 7474 sc.1	P.C. 7474 sc.2	Diff.
5	~~8.0~~									7.9 7.6 .89 8.6	8.2 8.05 1.2 8.95 1.0	7.9 8.9	8.2 9.0	-1.56
6													8.1	-1.84
8										10.4	10.45 .01	10.5		-2.22
9											Diff	10.9	10.85 1.0 10.8	-2.02
10	6.1 5.8			6.6 6.3			6.35	3	2	2.67		11.1	11.30 2.2 11.5	-2.28
11	7.4 7.1			7.7 7.4			7.55	2	1	2.00		12.2	b.f.	-2.65
12	7.7 7.4			7.9 7.6			7.80	1	1	2.06		12.6	12.60 .00 12.6	-2.74
13	8.2 7.9	8.1	8.15 .01	8.7 8.4	8.5	8.60 1.1	8.38	23	22	1.92		from	13.4	-3.10
14	8.6 8.3	8.4	8.50 1.1	def.			8.50	2	1	2.15		13.4	b.f.	2.75 -3.10
15	9.0 8.7	9.1	9.05 .01	9.2			9.12	07	08	1.96		13.5	13.55 1.0 13.6	-2.47
16	9.5			10.1			9.80	3	3	1.60		f.	f.	
17	10.1			10.3			10.20	1	1	1.43				
18	10.4			10.6			10.50	1	1	1.56				
19	10.9			11.1			11.00	1	1	1.42				
20	11.2			11.6			11.40	2	2	1.33				
23	12.10 .00 12.1		12.1	12.10 .00 12.1		12.1	12.10	00	00	1.24				
25	12.50 .00 12.5		12.5	12.55 1.0 12.6		12.5	12.52	02	03	1.35				
26	13.00 1.1 12.9		13.1	13.15 1.0 13.1		13.2	13.08	08	07	1.25				
27	13.40 .00 13.4		13.4	13.40 .00 13.4		13.4	13.40	00	00	1.29				
28	13.50 .00 13.5		13.5	13.70 1.1 13.6		13.8	13.60	10	10	1.51				
29	14.0 f.			13.9 f.			13.95	0	1	1.71		leh. F.C.		
30	f.			f. m.s.										
31														

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1915phae.proj.10700

Friday August 27, 1915

Scale R

Series 421 -

	mc 7468 g		mc 7468 h		Diffr. Im. mc 7474 g		mc 7474 h			Diff.	
	sc 1	sc 2	sc 1	sc 2	sc 1	sc 2	sc 1	sc 2			
5	7.5	7.85	7.9	7.6	7.5	t.f.			7.82	03	02 - 1.33
6	8.5	8.10		8.3	8.1	8.95		8.6	8.82	12	13 - 1.71
8	9.9	10.00		10.1	10.1	10.10		10.1	10.05	05	05 - 1.82
9	10.5	10.50		10.5	10.5	10.55		10.6	10.52	02	03 - 1.69
10	11.2	11.80		11.2	11.2	11.25		11.3	11.22	02	03 - 2.20
11	12.2	11.90		11.6	11.6	11.65		11.7	11.78	12	13 - 2.23
12	12.4	12.40		12.4	12.1	12.10		12.1	12.25	15	15 - 2.39
13	def.			12.6	12.5	12.55		12.6	12.58	02	03 - 2.28
14	12.8	12.95		13.1	12.8	12.75		12.7	12.85	10	10 - 2.20
15	13.4	13.40		13.4	13.3	13.30		13.3	13.35	05	05 - 2.27
16	13.5	13.45		13.4	13.5	13.50		13.5	13.48	03	02 - 2.08
17	13.6	13.60		13.6	13.7	13.75		13.8	13.68	08	07 - 2.05
18	14.0	14.00		~~13.6~~ 14.0	t.f.	4.			14.00	a	- 1.94
19	n.s.	4.									
20											
23											

Ch. F. C.

Diffr. Im. on mc 7468 are slightly elongated.

1122

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Scale R - Series 421 - copied.

Mc 7469 Carte 9h +39.5°

Diffs. Inv. Alt. +22 P.C.

	RC.1	RC.2		Cm.	Magn.	RC.1	RC.2		Cm.	Magn.	RC.2	Cm.	Magn.
1	B.			.		8.6	8.4	8.50 .1 1	-1.56	6.94	8.5	-1.69	6.81
2	B.			.		10.1	9.6	9.85 .3 2	-1.82	8.03	9.7	-2.03	7.67
3	60 5.7			2.60	8.60	10.6	10.6	10.60 .0 0	-2.00	8.60	11.2	-2.73 39	8.77 81
4	68 6.5			2.36	9.16	11.4	11.3	11.35 .0 1	-2.17	9.18	11.7	-2.78 54	9.22 16
5	76 7.3			2.14	9.74	12.1	t.p.		-2.30	9.80	t.p.	.	.
6	78 7.5			2.10	9.90	12.1	12.1	12.10 .0 0	-2.30	9.80	12.1	-2.66	9.44
7	78 7.5	7.5		2.10	9.90	12.2	12.2	12.20 .0 0	-2.30	9.90	12.3	-2.71	9.59
8	84 8.1	8.1	8.25 .2 1	2.00	10.25	12.4	12.4	12.40 .0 0	-2.30	10.10	13.2	-2.88	10.32
9	92 8.9	9.1	9.15 .0 1	1.80	10.95	13.3	13.3	13.30 .0 0	-2.18	11.12	13.4	-2.87 3	10.51 9
10		9.5		1.71	11.21	13.4	13.4	13.40 .0 0	-2.15	11.25	1/4	.	.
11		10.3		1.51	11.81								
12		10.3		1.51	11.81								
13		10.9		1.41	12.31								
14		11.2		1.36	12.56								
15		11.4		1.34	12.74								
16		11.6 11.9	11.75 .2 1	1.31	13.06								
17		12.4 12.2	12.30 .1 1	1.29	13.59								
18		12.6 12.3	12.45 .2 1	1.28	13.73								
19		13.4 13.4	13.40 .0 0	1.39	14.79								
20		13.4 13.4	13.40 .0 0	1.39	14.79								

Teh. P.C.

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Mc 7470 Carte 9h + 25°

Diffr Inn Alt. 1/9 P.C.

	Sc 1	Sc 2	Sc 2	Cm	Magn	Sc 2	Sc 2		Cm.	Magn	Sc 2	Cm.	Magn
1	B.			.		10.4	10.4	10.40 0 0	-1.96	8.44	10.6	-2.20	8.40
2	B.			.		10.5	sus?		-1.98	8.52	11.3	-2.43	8.87
3	7.4 7.1	B.		2.19	9.59	12.3	12.2	12.25 1 0	-2.30	9.93	12.4	-2.74	9.66
4	8.4 8.1	8.1	8.25 2 1	2.00	10.25	12.5	12.6	12.55 1 0	2.29	10.26	12.6 13.1	-2.80 w.i.	9.80
5	8.4 8.1	8.3	8.35 0 1	1.99	10.34	13.3	13.1	13.20 1 1	-2.20	11.00	13.4	-2.83	10.57
6	8.7 8.4	8.3	8.50 2 2	1.95	10.45	13.2	t.p.		-2.18	11.12	t.p.	"	"
7		9.3		1.76	11.06	13.4	t.p.		-2.15	11.25	"	"	"
8		9.8		1.63	11.43	13.8	13.7	13.75 0 1	-2.04	11.71			
9		10.4		1.49	11.89	"	"	"					
10		10.6		1.45	12.05								
11		10.6		1.45	12.05								
12		11.3		1.35	12.65								
13		11.1		1.32	13.02								
14		11.1		1.32	13.02								
15		11.1 12.15 1 0		1.32	13.02								
16		12.1 12.2 12.60 0 0		1.29	13.44								
17		12.6 12.6 13.10 0 0		1.28	13.88								
18		13.1 13.1 13.45 1 0		1.32	14.42								
19		13.5 13.4 13.80 0 0		1.40	14.85								
20		13.8 13.8		1.60	15.40								

Ch. P.C.

Interrupted Began at 10:05 10:18

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Scale R

Series 421-

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Mc 7471.

Carte $10^h + 65°$

Diffs. 1m. alt. 19 pc.

	pc.1	pc.2	pc.2	Cu.	Magn	g	sc.2	pc.2		Cu.	Magn	pc.2	Cu	Magn
1	B.			.		10.1	t.f.			-1.89	8.21	9.9	-2.08 (1)	7.82 (9)
2	B.			.		*9.6	v.f.			-1.79	7.81	10.1	-2.06 (6)	8.04 ~~7.96~~
3	B.			.		10.3	t.f.			-1.93	8.37	10.6	-2.20	8.40
4	B.			.		11.1	11.2	11.15	1 0	-2.12	9.03	11.1	-2.36	8.74
5	6.7 6.4	B.		2.39	9.09	11.4	11.4	11.40	0 0	-2.18	9.22	11.6	-2.51	9.09
6	8.1 7.8	8.1	8.10	2.03	10.13	12.5	12.4	12.45	1 0	-2.30	10.15	12.5	-2.78 (8)	9.72
7	8.7 8.4	8.6	8.65	1.91	10.56	13.4?	def.			-2.15	11.25	13.4	-2.8 (3) ~~-2.87~~	10.5 ~~10.57~~
8	8.9 8.6	9.1	9.00	1.84	10.84	13.5	13.5	13.50	0 0	-2.12	11.38	13.8	.	.
9		10.1		1.56	11.66	14.0?	13.9	13.95	0 1	-1.94	12.01	↓.	.	.
10		10.6		1.45	12.05	↓.	↓.			.	.			
11		11.1		1.39	12.49									
12		11.5		1.34	12.84									
13		11.7		1.32	13.02									
14		12.3		1.29	13.59									
15		12.3	12.5	12.40 (1 1)	1.28	13.68								
16		12.6	12.5	12.55 (0 1)	1.28	13.83								
17		12.6	12.8	12.70 (1 1)	1.28	13.98								
18		13.4	13.4	13.40 (0 0)	1.39	14.79								
19		14.0	14.0	14.00 (0 0)	1.77	15.77								
20		↓.	↓.		.									

Ch. F. C.

* why so bright? P.C. of 2 is fainter than that of 1.

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Card.

Scale R

Series 421.

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Mc 7 4 7 2

Carte

$10^h + 31.^\circ 5$

Diffr. Im. Alt. 122 P.C.

	Rc.1	sc 2	sc 2			Rc.2	sc 2			Cu.	Magn	Rc 2	Cu.	Magn
1	6.5					10.5	10.5	10.50	0 0	-1.98	8.52	10.2	-2.18	8.32
2	6.2			2.45	8.95	11.3	11.4	11.35	1 0	-2.17	9.18	11.6	-2.51	9.09
3	7.4			2.12	9.82	12.2	12.4	12.30	1 1	-2.30	10.00	12.3	-2.71	9.59
4	8.1	8.5	8.45 0 1	1.96	10.41	12.6	12.6	12.60	0 0	-2.29	10.31	13.1	-2.88	10.22
5	8.9	9.4	9.30 1 1	1.77	11.07	13.4	13.4	13.40	0 0	-2.15	11.25	13.4	-2.83	10.57
6		9.8		1.63	11.43	13.4	13.5	13.45	0 1	-2.14	11.31	〃	〃	〃
7		9.8		1.63	11.43	def.	13.5?			-2.12	11.38?			
8		10.5		1.48	11.98	〃	〃			〃	〃			
9		11.2		1.37	12.57									
10		11.6		1.32	12.92									
11		11.6		1.32	12.92									
12		12.1		1.30	13.40									
13		12.3		1.29	13.59									
14		12.6	12.6	12.60 0 0 1.28	13.88									
15		12.6	12.7	12.65 0 1 1.28	13.93									
16		13.1	13.2	13.15 1 0 1.32	14.47									
17		13.4	13.4	13.40 0 0 1.39	14.79									
18		13.5	13.5	13.50 0 0 1.42	14.92									
19		〃	〃											
20		〃	〃											
〃														

Neb. F.C.

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Friday August 27, 1915 — Card.

Scale R — Series 421 — Corpid.

Mc 7473 — Carte — 10h +5.0°

Diffr. Im. — Alt. +10 — P.C.

	Pc.1	Pc.2		Cw.	Magw	Diffr. Im. Pc.2	Pc.7	h			Alt. +10 P.C. Pc.2	Cw.	Magw
1	4.5			.		10.3	10.4	1035	L0	-1.95	8.40	10.4	-2.15 X 8.25
2	7.2 B.			.		10.9	t.f.			-2.07	8.83	11.2	-2.39 8.81
3	6.9 B.			2.25	9.45	11.5	t.f.			-2.20	9.30	11.6	-2.51 9.09
4	8.1	8.1	8.20 .1	2.01	10.21	12.6	t.f.			-2.29	10.31	13.1	-2.88 10.22
5	8.5	8.9	8.85 .0	1.88	10.73	12.8	t.f.			-2.28	10.52	t.f.	. .
6	8.5	9.1	8.95 .2	1.86	10.81	12.8	t.f.			-2.28	10.52	t.f.	. .
7		10.4		1.49	11.89	t.f.	13.4			-2.15	11.25		
8		10.7		1.44	12.14	f.	f.			.	.		
9		10.9		1.41	12.31								
10		11.8		1.31	13.11								
11		12.3		1.29	13.59								
12		12.4		1.28	13.68								
13		12.8		1.28	14.08								
14		13.15 L0 13.1	13.2	1.32	14.47								
15		13.40 00 13.4	13.4	1.39	14.79								
16		13.25 01 13.2	13.3	1.34	14.59								
17		13.35 L0 13.3	13.4	1.36	14.71								
18		13.90 00 12.9	12.9	1.69	15.59								
19		f.	f.	.	.								
20													

Im. los hazy & mess.

feb. P.C.

"h" images - very poor -

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Saturday September 25, 1915

Scale R

9 – 10

Series 492 -

Plot, Sheet No. 215

	Mc 8552			Pole.				Mc 8555.				Mc 8559				Starlm.				
	Sc. 1	Sc. 2	Sc. 2	Sc. 1	Sc. 2	Sc. 2		Sc. 1	Sc. 2	Sc. 2		Sc. 1	Sc. 2	Sc. 2						Diff.
5																				
6																				
8																				
9																				
10	5.9 5.6			6.1 5.8				6.3 6.0								6.10	2	0	2	2.92
11	6.8 6.5			6.9 6.6				6.9 6.6								6.87	1	0	0	2.68
12	6.9 6.6			7.4 7.1				7.5 7.2								7.27	4	1	2	2.59
13	7.7 7.4	B.		8.1 7.8	7.9	8.00	1 1	7.9 7.6	B.							7.90	20	20	00	2.40
14	8.1 7.8	8.3	8.20	1 1	8.7 8.4	8.4	8.70	0 0	8.6 8.3	8.4	8.50	1 1				8.47	27	23	03	2.18
15	8.8 8.5	8.9	8.85	0 1	9.2 8.9	9.2	9.20	0 0	9.1 8.8	9.2	9.15	1 0				9.07	22	13	08	2.01
16	9.4				9.6				9.5							9.50	1	1	0	1.90
17	9.6				9.9				9.8							9.77	2	1	0	1.86
18	10.5				10.4				10.5							10.47	0	1	0	1.59
19	10.1				11.2				10.6							10.83	1	4	2	1.59
20	11.30 1 1				11.35 0 1				11.35 1 0							11.33	03	02	02	1.40
	11.2 11.4				11.4 11.3				11.3 11.4											
23	12.10 0 0				12.20 1 1				12.10 0 0							12.13	03	07	03	1.21
	12.1 12.1				12.1 12.3				12.1 12.1											
25	12.50 0 0				12.50 0 0				12.59 1 1							12.50	00	00	00	1.37
	12.5 12.5				12.5 12.5				12.4 12.6											
26	13.35 1 0				13.35 0 1				12.80 1 1							.17	18	18	37	1.16
	13.3 13.4				13.4 13.3				12.1 12.9							~~13.50~~	~~15~~	~~15~~	~~30~~	~~0.83~~
27	13.40 0 0				13.45 1 0				13.25 2 1							13.37	03	08	12	1.32
	13.4 13.4				13.5 13.4				13.4 13.1											
28	t. t.				t. t.				t. t.							,				
29									t.							,				
30									t.							,				

Ch. F.C.

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Saturday
~~Friday~~ September 25, 1915

Scale

Series 492 -

	Mc 8552		Polar - Mc 8555		P.C. Mc 8559.			Diff
	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2		
	7.9		8.0		8.0			
5	7.6		7.1		7.1		7.97	-.148
	8.9		8.9		8.9			
6	8.6		8.6		8.6		8.90	-.179
8	10.4		10.1		10.6		10.57	-.234
9	11.5		11.5		11.5		11.50	-.267
10	11.1		11.8		11.5		11.67	-.265
11	12.3		12.3		12.4		12.33	-.278
12	13.1 ~~12.4~~		13.1 ~~dup?~~		12.5		12.90	-.304
13	t.p.		t.p.		13.4 w.s. 5		13.5	-.320
14	~~13.4~~		13.1		t.p.		13.7	-.305
15	t.		t.		t			
16	t.							
17								
18								
19								
20								

Ch. P.C.

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Saturday September 25, 1915

Scale R Series 492- Plot, Sheet No. 215.

q→p Mc 8552 Pole Diff. Inv. Mc 8555 Mc 8559

Diff		q sc1	q sc2	h sc1	h sc2						
-1.08	5	7.4 7.50 1.1		7.6		7.7 7.80 1.1	7.9	7.4 7.40 0.0	7.4		
		7.1 8.4 8.1		7.3 8.5		7.4 8.4 8.1	7.6 8.4 8.1	7.1	7.1 8.5	7.57	07 23 17
-1.34	6	8.4 8.45 0.1		8.2		8.40 0.0	8.1	t.p.	8.2	8.45	00 05 05
-1.72	8	9.9 9.85 1.0		9.8		10.1 10.10 0.0	10.1	t.p.	9.9	9.95	10 15 05
-1.80	9	10.6 10.60 0.0		10.6		t.p.	10.7	10.5 10.60 1.1	10.7	10.63	03 07 03
-2.23	10	11.2 11.25 0.1		11.3		11.2 11.25 0.1	11.3	11.3 11.25 1.0	11.2	11.25	00 00 00
-2.30	11	11.7 11.75 1.0		11.8		11.8 11.95 2.1	12.1	11.8 11.85 0.1	11.9	11.85	10 10 00
-2.39	12	12.3 12.30 0.0		12.3		12.2 12.20 0.0	12.2	12.2 12.25 0.1	12.3	12.25	05 05 00
-2.53	13	13.1 13.10 0.0		13.1		12.7	t.p.	12.7 12.70 0.0	12.7	12.83	27 13 13
-2.53	14	13.2 13.25 0.1		13.3		t.p.	13.2	13.1 13.10 0.0	13.1	13.18	07 02 08
-2.42	15	t.p.		t.p.		t.p.	t.p.	13.5 13.50 0.0	13.5	13.50	: : a=
.	16	f.		f.				t.p.	f.		
	17										
	18										
	19										
	20										
	28										

Ch. F. b.

10 40

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Scale R Series 492 - Copied.

Mc 8553 132 K - Alt. -18

			sc.1	sc.2	sc.?	Cm.	Magn	Diffr Im. sc.1	sc.1			Cm.	Magn	P.C. sc.?	Cm.	Magn
								8.6	8.8	7.0						
1	5	B				.		8.3	8.5	8.40	± 1	- 1.41	7.29	9.21	- 1.87	7.33
								sc.?	sc.?							
2	6	B				.		9.1	9.2	9.15	± 0	- 1.52	7.63	9.9	- 2.09	7.81
3	8	B.				.		10.2	10.3	10.25	± 0	- 1.86	8.39	t.p.	.	.
				7.2												
4	9	6.9				2.61	9.81	t.p.	t.p.			.	.	t.p.	.	.
				7.8												
5	10	7.5	B.			2.43	10.23	t.p.	t.p.			.	.	t.p.	.	.
				8.4												
6	11	8.1	8.1	8.25	± 1	2.30	10.55	13.1	13.2	13.15	± 0	- 2.52	10.63	~~12.5~~ t.p.	.	.
7	12		9.2			2.00	11.20	t.p.	t.p.			.	.			
8	13		9.5			1.90	11.40									
9	14		10.1			1.71	11.81									
10	15		10.5			1.60	12.10									
11	16		10.4			1.53	12.23									
12	17		11.6	11.6	11.60	0.0	1.34	12.94								
	13		12.1	12.1	12.10	0.0	1.29	13.39								
	14		12.8	t.p.			1.24	14.04								
	15		12.6	12.6	12.60	0.0	1.24	13.84								
	16		12.7	12.6	12.65	± 0	1.24	13.89								
	17		t.p.	t.p.			.	.								
	18		t.p.				.	.								
	19		?				.	.								
	20		?				.	.								

E.K.C.

Not

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MC 8554 Carte 16h –10°

Diffr Imn. Att .08 P.C.

	sc.1	sc.2		Cm	Magn	all to 1 hour	sc 2
1	B.			.			t.f.
2	6.85 6.23			2.80	9.30		t.f.
3	7.4 7.1			2.55	9.95		t.f.
4	8.1 7.8	8.2	8.15	1.0 2.33	10.48		
5	8.7 8.4	8.8	8.75	1.0 2.13	10.88		
6	9.0 8.7	9.1	9.05	0.1 2.03	11.08		
4		10.1		1.71	11.81		
8		10.3		1.65	11.95		
9		10.6		1.57	12.17		
Not comp. with sc. 10		t.f.		.	.		
" " " 11		t.f.		.	.		
" " " 12		t.f.		.	.		
" " " 13		t.f.		.	.		
" " " 14		t.f.		.	.		
" " " 15		t.f.		.	.		
" " " 16		t.f.		.	.		
17		t.f.		.	.		
18							
19							
20							

Ch. F.C.

Imn. very poor. large and irreg. shaped.

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1915phae.proj.10700

Saturday September 25, 1915 — Card.

Scale R — Series 492 — Leipzig.

MC 8557 — Carte — 18 +65° — Alt. 419

					Diffr. Dm.				R.C.		
	Rec 1	Rec 2		Cm.	Magn	Rec 1	Rec 2		Cm.	Magn	Rec 2	Cm.	Magn
1	B			.		10.3	10.3	10.30 0 0	-1.88	8.42	10.1	-2.38	8.32
2	B			.		10.5	10.5	10.50 0 0	-1.94	8.56	11.2	-2.52	8.68
3	B. 6.7			.		10.6	10.6	10.60 0 0	-1.98	8.62	11.5	-2.62	8.88
4	6.4			2.74	9.44	11.5	11.4	11.45 1 0	-2.23	9.22	12.3	-2.90	9.40
5	6.5 6.6 7.3			2.71	9.51	12.2	12.1	12.15 0 1	-2.41	9.74	12.5	-2.96	9.54
6	7.1 7.0 7.1			2.59	9.89	12.2	12.3	12.25 0 1	-2.44	9.81	sup?	:	.
7	7.4 8.7	B		2.46	10.16	12.3	12.4	12.35 1 0	-2.45	9.90	13.2	-3.12	10.08
8	7.9 8.7	8.1	8.15 0 1	2.33	10.48	12.7	+p.		-2.49	10.21	∫	.	.
9	8.4	8.7	8.70 0 0	2.15	10.85	+p	13.5?		-2.42	11.08?			
10		9.1		1.84	11.54	?	?		.	.			
11		10.1		1.71	11.81								
12		10.6		1.57	12.17								
13		10.7 11.00	1 1	1.54	12.24								
14		11.1	10.9	1.46	12.46								
15		11.3		1.40	12.70								
16		12.1	12.1 12.10 0 0	1.28	13.38								
17		12.5	12.5 12.50 0 0	1.25	13.75								
18		13.1	12.9 13.00 1 1	1.24	14.24								
19		13.3	13.1 13.20 1 1	1.25	14.45								
21		13.4	13.3 13.35 0 1	1.26	14.61								

Schl. P.C.

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Saturday September 25, 1915

Scale R Series 492 Repaired.

		Mc8558			N.G.C. 6709		18 47 +10.2 Diff. Im. alt +14 S.C.						
		sc.1	sc.2	sc.3	Cm.		g sc.2	k sc.3				sc.2	Cm. Magn
1		⊕			.		9.6	9.6	9.60	0.0	-1.66	7.94	10.1 -2.17 7.93
2		⊕ 6.2			.		t.p.	t.p.			.	.	t.p. .
3		5.9			2.88	9.08	t.p.	"			.	.	t.p. .
4		6.5 6.8			2.71	9.51	11.7?	11.7?	11.70?	0.0	-2.30	9.40	t.p. .
5		7.9 7.6	B.		2.40	10.30	t.p.	t.p.			.	.	
6		8.3 8.6	8.1	8.65	0.1	2.16	10.81	t.p.	t.p.		.	.	
7		8.6 8.9	9.0	8.95	1.0	2.06	11.01						
8		8.8 9.1	9.1	9.10	0.0	2.02	11.12						
9			9.1		1.84	11.54							
10			10.3		1.65	11.95							
11			10.5		1.60	12.10							
12	Im. elong. →		t.p.		.	.							
13			t.p.		.	.							
14			t.p.		.	.							
15			13.21		1.24	14.44							
16													
17													
18													
19													
20													

Ch. F.C.

S.C. Images are not comparable with scale.
All " " elongated

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1915phae.proj.10700

Monday ~~August~~ September 27, 1915.

Scale R- 10;10

Series 427.

Plot, Sheet No. 215.

mo 5222

Pole-

mo 5227-

	pc.1	pc.2	sc.2	sc.1	sc.2	sc.2					pc.1	pc.2	sc.1	sc.2	Diff
											7.9				
5											7.6		nearly		-.141
											8.6		sup.		~~4.90~~
6											8.3	8.55 0 1	8.5	8.2	-.144
8												10.1 10.10 0 0		10.1	-.187
9												Diff	10.9	10.85 1 0	10.8 -.202
	5.5			5.6											
10	5.2			5.5			5.65	1	2	3.37	10.9	11.00 1 1		11.1	-.198
	6.4			6.8											
11	6.1			6.5			6.60	2	2	2.95	t.p.			t.p.	q
	6.8			7.4											
12	6.5			7.1			7.10	3	3	2.76	t.p.			12.5	-.264
	7.6			7.9											
13	7.3			7.6	7.5		7.70	2	2	2.65	t.p.			13.1	-.280
	7.9			8.4											
14	7.6	B.		8.1	8.1		8.25	2	1	2.57	13.3			t.p.	-.265
	8.5			8.7											
15	8.2	8.6	8.55 1 0	8.4	8.1		8.70	0	0	2.46	t.p.			13.5	-.242
	8.9			9.0											
16	8.6	8.9	8.90 0 0	8.1	9.1		9.05	0	1	2.42	sup.			sup?	
17		9.6			9.5		9.55	0	1	2.08					
18		9.9			10.3		10.10	2	2	1.96					
19		10.6			10.6		10.60	0	0	1.82					
20		10.8			10.8		10.80	0	0	1.93					
		11.70 0 0			11.60 0 0										
23		11.7	11.7		11.6	11.6	11.65	0	5	1.69					
		12.35 0 1													
25		12.4	12.3		t.p.	t.p.	12.35	2	1	1.52					
		12.65 1 0			12.35 1 0										
26		12.7	12.6		12.3	12.4	12.50	1	5	1.83					
		13.20 0 0													
27		13.20	13.21		13.1?	t.p.	13.15	0	5	1.54					
		13.50 1 1			13.65 1 0										
28		13.4	13.6		13.7	13.6	13.58	0	7	1.53					
29		t.p.	t.p.		t.p.	t.p.									
30		t.p.			t.p.										
31															

Eh. F. C.

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Monday September 27, 1915 -

Scale R - Series 427.

	Mc 1522 g		Mc 1522 h		Mc 1527 g		Mc 1527 h				Diff.
	pc 1	pc 2	pc 1	pc 2	pc 1	pc 2	pc 1	pc 2			
5	7.4 7.1 8.1	7.45	7.5	7.21	7.7 7.4 8.4	7.65	7.6 7.3 8.1		7.55	10	10 - 1.06
6	7.8	8.10	8.1	7.8		8.40		8.1	8.25	15	15 - 1.14
8	9.5	9.55	9.6 a		9.9		t.p.	9.72	17	18	- 1.49
9	10.6	10.60	10.6		10.6	10.60	10.6		10.60	00	00 - 1.77
10	11.1	11.00	10.9		10.8		t.p.	10.90	10	10	- 1.88
11	11.5	11.60	11.7		11.4	11.45	11.5		11.52	08	07 - 1.97
12	t.p.		12.1		12.2		t.p.	12.15	05	05	- 2.29
13	12.3	12.35	12.4		12.3	12.35	12.4		12.35	00	00 - 2.05
14	12.8	12.70	12.6		t.p.		12.8	12.75	05	05	- 2.10
15	13.4	13.40	13.4		13.1	13.10	13.1		13.25	15	15 - 2.17
16	t.p.		13.4		13.4	13.40	13.4		13.40	00	00 - 2.00
17	14.0?		t.p.		∓		∓	14.00?	a		- 2.37
18	∓		∓		∓		∓				
19											
20											
23											
25											
26											
27											

leh. F.C.

12:01 -

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Monday September 27, 1915

Cand.

Scale R Series 427- Copied.

Mcy 523 Carte $2^h + 10°$ Overexposed $+5^s$.

Diff Im. Att. 713 P.C. +.06 = +.20

	sc.1	sc.2	sc.2	Cw.		g sc.2	l sc.2	Cw.	Magn	sc.2	Cw.	Magn
1	B			.		9.6	9.6	-1.47	8.13	10.1	-1.88	8.22
2	B			.		10.4	10.5	-1.71	8.74	t.p	.	,
3	B. 6.6			.		10.7	t.p	-1.79	8.91	11.6	-2.35	9.25
4	6.3			2.97	9.57	11.7	11.5?	-2.00	9.60?	12.1	-2.50	9.60
5	6.7			2.83	9.53	t.p.	12.1?	-2.07	10.03?	12.5	-2.60	9.90
6	8.2	8.3	8.40	2.46	10.86	t.p.	13.2?	-2.14	11.06?	t.	,	,
7		9.6		2.15	11.75	t	n.s.	,	,			
8		def.		.	.							
9		10.6	11.40	1.91	12.51							
10		11.4	11.55	1.78	13.18							
11		11.5	11.6	1.75	13.30							
12		t.p.	12.35	1.71	13.61							
13		12.3	12.80	1.65	14.00							
14		12.8	13.20	1.60	14.40							
15		13.2	13.2	1.59	14.79							
16												
17												
18												
19												
20												

Ch. F. C.

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Monday September 27, 1915

Card.

Scale R Series 427 Copied.

Mc 4524 Carte 3 +55°

Diffs. In Alt +20

	pc.1	pc.2		Cw.	Magn	q pc.2	Cw.	Magn	h pc.2	Cw.	Magn
						10.30 1.					
1	B 6.6			.	.	10.2	10.4	-1.68	8.62	10.4	-1.98 8.42
						11.60 -1 1.					
2	6.3 .7.4			2.97	9.57	11.5	11.7	-2.00	9.60	12.1	-2.50 9.60
						12.30 .0 0.					
3	7.1 .8.2			2.71	10.11	12.3	12.3	-2.09	10.21	t.p.	, ,
4	7.9 .8.0			2.50	10.70	t.p.	13.2	-2.14	11.06	13.5	-2.54 10.96
						12.80 .0 0.					
5	7.7 .8.7	B		2.55	10.55	12.8	12.8	-2.12	10.68	def?	, ,
6	8.1 .8.1	8.6	8.50 .1 1.	2.44	10.94	t.p.	13.3	-2.14	11.16		
						13.35 .0 1.					
7	8.4	8.9	8.80 .1 1.	2.36	11.16	13.4	13.3	-2.14	11.21		
						14.05 .1 0.					
8		9.4		2.21	11.61	14.1?	14.0	-2.12	11.93?		
9		9.6		2.15	11.75	t	,	,			
10		9.6		2.15	11.75						
11		9.9		2.09	11.99						
			.1 1.								
12		10.4	10.6 10.50	1.94	12.44						
13		10.5		1.94	12.44						
14		10.6		1.91	12.51						
			.0 0.								
15		11.4	11.4 11.40	1.78	13.18						
			.1 0.								
16		11.5	11.4 11.45	1.76	13.21						
			.0 0.								
17		11.4	11.4 11.40	1.78	13.18						
			.1 1.								
18		11.7	11.5 11.60	1.74	13.34						
19		def?	def.	.	.						
			.0.1								
20		13.2	13.3 13.25	1.58	14.83						

Ch. F. C.

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Monday September 27. 1915

Cand.

Scale R Series 27. Corrected.

Mc 15225 Carte 4 +65°

Diffr. Im. Att. +19 P.C.

	Mc 1	Mc 2		Cm.	Magn	Diffr. Im. Mc 1	Diffr. Im. Mc 2	Cm.	Magn	Att. +19 P.C. Mc 2	Cm.	Magn
1	B			.	.	9.40 ⊥ 1	9.3 9.5	-1.41	7.99	9.7	-1.75	7.95
2	C. 7.6			.	.	11.20 ⊥ 1	11.1 11.3	-1.91	9.28	11.1	-2.19	8.91
3	13			2.67	10.27	12.20 ⊥ 1	12.1 12.3	-2.09	10.11	t/p	.	.
4	7.9 7.6			2.89	10.49	12.45 ⊥ 01	12.4 12.5	-2.10	10.35	t/p.	.	.
5	7.7 7.4			2.64	10.34	12.50 ⊥ 1	12.4 12.6	-2.11	10.39	12.7	-2.66	10.04
6	8.2 7.9			2.50	10.70	12.75 ⊥ 0	12.7 12.8	-2.12	10.63	13.1	-2.66	10.44
7	8.6 13	8.5	8.55 ⊙ 1	2.42	10.97	13.2	t.p.	-2.14	11.06	t/p	.	.
8	8.8 8.5	9.0	8.90 ⊥ 1	2.34	11.24	13.2	t.	-2.14	11.06	13.4	-2.58	10.82
9	8.8 8.5	8.8	8.80 ⊙ 0	2.36	11.16	13.4		-2.14	11.26	t/p.	.	.
10		9.8		2.10	11.90	t.		.	.			
11		10.3		1.99	12.29							
12		10.1		2.04	12.14							
13		10.6		1.91	12.51							
14		10.8		1.87	12.67							
15		10.8		1.87	12.67							
16		11.10 ⊙ 0 11.1	11.1	1.83	12.93							
17		11.55 ⊥ 0 11.5	11.6	1.75	13.30							
18		11.70 ⊙ 0 11.7	11.7	1.73	13.43							
19		12.55 ⊥ 2 12.1	12.4	1.62	14.17							
20		12.70 ⊙ 0 13.7	13.7	1.55	15.25							

l.h. P.6.

no. 5 is slightly brighter than no. 4, or is it a red star?

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Monday September 27, 1915

Cloud.

Scale R Series 427- Copied.

Mc 7 5 26 Carte 4h + 46.5°

Differ. Inv. Att+2 RC

	sc.1	sc.2		Cw.	Magn.	sc.1 / 8.4	sc.1 / 8.6			Cw.	Magn.	sc.1 / 8.7	Cw.	Magn.
1	B	.	.	.	.	8.1	8.3	8.50	1	-1.18	7.32	8.4	-1.50	7.20
2	B	.	.	.	.	sc.2 / 9.8	sc.2 / t.p.	.		-1.52	8.28	sc.2 / 9.6	-1.74	7.86
3	B	.	.	.	.	10.3	10.4	10.35	1.0	-1.69	8.66	10.4	-1.98	8.42
4	6.2 / 5.9			3.11	9.31	11.4	11.4	11.40	0.0	-1.96	9.44	11.5	-2.31	9.19
5	6.6 / 6.3			2.97	9.57	11.6	t.p.			-2.00	9.60	t.p.	.	.
6	7.4 / 7.1			2.71	10.11	12.2	sup.			-2.09	10.11	12.3	-2.55	9.75
7	7.8 / 7.5	B.		2.61	10.41	t.p.	t.p.			.	.	t.p.	.	.
8	8.9 / 8.6	8.5	8.70 2.2	2.39	11.09	13.2	t.p.			-2.14	11.06			
9		9.4		2.21	11.61	4	4.			.	.			
10		9.9		2.08	11.98									
11		10.1		2.03	12.13									
12		9.1 / 10.4	0.0	2.14	11.84									
13		10.4 10.4	10.90 0.0	1.96	12.36									
14		10.9 10.9	11.10 0.0	1.85	12.75									
15		11.1 11.1	11.35 0.1	1.83	12.93									
16		11.4 11.3	12.10 0.0	1.79	13.14									
17		12.1 12.1	12.15 2.0	1.69	13.79									
18		12.1 12.2	12.55 0.1	1.68	13.83									
19		12.6 12.5	13.15 0.1	1.62	14.17									
20		13.2 13.1		1.59	14.74									

Ch. F. C.

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1915phae.proj.10700

Wednesday September 29, 1915

Scale R

Series 515

Plot, Sheet No. 216

~~10 120~~ 9:55

Mc 8863

Pole –

Mc8868

	sc 1	sc 2	sc 2	sc 1	sc 2	sc 2	P.C. sc 1	P.C. sc 2	Q.C. sc 1	Q.C. sc 2	Diff.
5							8.3	8.70 1 1	8.8 8.5		-2.21
6							8.8	9.30 2 2		9.5	-2.19
8							11.1	11.00 1 1		10.9	-2.77
9							Diff	11.7 11.90 2 2		12.1	-3.07
10	6.4 6.1			6.5 6.21			6.45 0 1	2.57	t.p.	12.3	-3.28
11	7.1 6.8			7.4 7.1			7.25 1 2	2.30	12.6 12.70 2 1	12.8	-3.15
12	7.8 7.5	B.		7.9 7.6	B.		7.85 0 1	2.01	13.4 13.40 0 0	13.4	-3.54
13	8.2 8.9	8.1	8.15 0 1	8.5 8.21	8.6	8.55 2 0	8.35 2 0 2 0	1.95	t.	13.8	-3.50
14	8.8 8.5	8.9	8.85 0 1	9.2 8.9	9.1	9.15 0 1	9.00 1 5 1 5	1.65	t	t.p.	
15		9.5			9.1		9.60 1 1	1.48			
16		9.9			10.3		10.10 2 2	1.30			
17		10.3			10.5		10.40 1 1	1.23			
18		10.9			10.9		10.90 0 0	1.16			
19		11.35 1 0 11.3	11.4		11.5	11.5	0 0 11.50	11.42 0 7 0 8			1.00
20		11.75 1 0 11.7	11.8		11.7	11.8	1 0 11.75	11.75 0 0 0 0			0.98
23		12.45 0 1 12.4	12.5		12.4	12.5	0 1 12.45	12.45 0 0 0 0			0.89
25		13.10 0 0 13.1	13.1		12.8	13.1	2 1 12.95	13.02 0 8 0 7			0.85
26		13.60 1 1 13.1	13.5		13.4	13.4	0 0 13.40	13.50 1 0 1 0			0.83
27		t.	t		t.	t					
28											
29											
30											

Ch. F. C.

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1915phae.proj.10700

Wednesday September 29, 1915

Scale R ..... Series 515

	mc8863 g			Pole -	mc8868 g			Diff. Im. -			
	sec.1	sec.2	sec.1 sec.2		sec.1	sec.2	sec.1 sec.2				Diff.
5	1.7 1.4 .85	1.70	0 0 1.7 1.4 .86		1.7 1.4 .87	1.75	1 0 1.8 1.5 .89	7.72	02	03	-1.23
6	8.21	8.56	1 0 8.3		8.84	8.80	1 1 8.6	8.68	13	12	-1.57
8	10.3	10.35	1 0 10.4		10.5	10.45	1 0 10.4	10.40	05	05	-2.17
9	11.21	11.25	0 1 11.3		11.4	11.40	0 0 11.4	11.32	07	08	-2.49
10	11.6	11.60	0 0 11.6		11.6	11.65	0 1 11.7	1162	02	03	-2.60
11	12.21	12.30	1 1 12.4		12.4	12.40	0 0 12.4	12.35	05	05	-2.80
12	12.6	12.60	0 0 12.6		12.8	12.80	0 0 12.8	12.70	10	10	-2.84
13	13.3	13.30	0 0 13.3		13.3	13.30	0 0 13.3	13.30	00	00	-3.00
14	13.6	13.50	1 1 13.4		13.5	13.50	0 0 13.5	13.50	00	00	-2.85
15	F.		F.		F		F.				
16											
17											
18											
19											
20											
23											

Ch. F. C.

1104

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Card.

Scale R

Series 515 Leopold.

Mc 8864 6 KS

Diff'd m. alt. +17 B.C.

	Sc. 1		Cm.	Magn.	R.A.1	R.A.2		Cm.	Magn.	Dec. 2	Cm.	Magn.
1	B. 6.7		.	.	9.4	9.3	9.35 ± 0.1	-.181	7.54	9.9	-.240	7.50
2	6.4		2.49	9.19	12.1	12.2	12.15 ± 0	-.272	9.43	12.4	-.320	9.20
3	7.8 7.5		2.10	9.90	t.p.	13.21		-.294	10.26	t.p.	.	.
4	8.2 7.9 9.2	8.1	8.15 ± 0.1	1.95	10.10	13.4	13.5	13.45 ± 0.1	-.291	10.54		
5	8.7	9.1	9.15 ± 0.1	1.60	10.75	t	t.p.		.	.		
6		9.9		1.39	11.29							
7		10.7		1.18	11.88							
8		10.8	10.9	10.85 ± 0.1	1.15	12.00						
9		11.7	11.7	11.70 ± 0.0	1.00	12.70						
10		12.4	12.5	12.45 ± 0.1	0.90	13.35						
11		13.1	13.1	13.10 ± 0.0	0.85	13.95						
12		13.7	13.6	13.65 ± 0.0	0.83	14.48						
13		t	t.	.	.							
14		t		.	.							
15												

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Mc8865 7 Ks.

Diffr. Inn. Att +2/ T.C.

	sc.1	sc.2		Cu.	Magn.	sc.1	sc.1			sc.1	
						8.7	8.6			8.9	
1	B			.	.	8.4	8.3	8.65	10 - 1.56	7.09	8.6 - 2.17 6.73
						sc2	sc2				
2	B			.	.	10.8	10.9	10.85	01 - 2.34	8.51	t.fo. . .
3	B. 8.8			.	.	11.3	11.1	11.20	11 - 2.47	8.73	t.fo. . .
4	8.5	8.8	8.80	00	1.72	10.52	t.fo.	13.8	. . .		
5		9.7	9.7	9.70	00 1.44	11.14	≠	≠	. . .		
6		10.5	10.4	10.45	10 1.23	11.68					
7		t.fo.	t.fo.	.		.					
8		11.4	11.6	11.50	1 1.03	12.53					
9		11.4 b?	t.fo.	.	1.02	12.62?					
10		12.2	12.2	12.20	092	13.12					
11		12.9	12.8	12.85	086	13.71					
12		t.fo.		.		.					
13		t.fo.		.		.					
14											
15											

ch. R. b.

All imaged pre elongated, difficult to compare with scale.

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Scale R5 Series 515 Copied.

MC8866 8KS

	sc 1	sc 2	sc 2	Cm.	Magn	g h sc 2 / sc 2		Diffr. Im	Att. 42	Pc. sc 2
1	5.8 (6.1)			,	.	11.5	11.6	11.56 ± 0	− 2.57 8.98	12.3 − 3.17 9.13
2	7.3 (7.6)			2.18	9.78	12.5 sup.			− 2.82 9.68	13.3 − 3.40 9.90
3	8.1 (8.4)	8.3	8.35 ·0 !	1.88	10.23	+p	+p.	.	.	1 , ,
4	8.9 (9.2)	9.1	9.15 ·0 !	1.60	10.75	1	1.	.	.	
5		9.9		1.39	11.29					
6		10.6	·0 !	1.20	11.80					
7		11.4	11.3 11.35 ·0 0	1.06	12.41					
8		12.1	12.1 12.10 ·0 !	0.94	13.04					
9		12.4	12.3 12.35 ·1 !	0.91	13.26					
10		12.9	12.1 12.80 ·0 !	0.86	13.66					
11		13.4 ?low	13.3 13.35? ·0 0	0.84	14.19?					
12		13.9	13.9? 13.90?	,	,					
13		1		,	,					
14		1		,	,					
15										
16										
17										

1t. stars not seen. Ch. F. C.

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Mc 8867. 64K.

	sc.1	sc.2				Diffr. Im. g sc.2	Diffr. Im. h sc.2	alt +21	P.C. sc.2	
	4.9									
1	4.6					10.4	10.4	10.40 ± 0 - 219	8.21	10.1 - 2.67 8.03
	6.1									
2	5.8					11.6	11.4	11.50 ± 1 - 2.55	8.95	12.1 - 3.11 8.99
	6.7									
3	6.4				2.49	9.19	11.8	11.1	11.75 ± 1 - 2.62	9.13	12.3 - 3.17 9.13
	8.2									
4	7.9	8.0	8.10	± 1	1.99	10.09	12.8	12.9	12.85 ± 1 - 2.89	9.96	
	9.2									
5	8.9	9.3	9.25	± 1	1.58	10.83	7.	7.	,	,	
6		9.9			1.39	11.29					
7		10.9			1.14	12.04					
				± 1							
8		11.4	11.5	11.45	1.04	12.49					
				± 0							
9		12.2	12.2	12.20	0.92	13.12					
				± 0							
10		12.5	12.5	12.50	0.89	13.39					
				± 1	8	1					
11		13.2	13.4	13.30	0.74	14.04					
			8	± 1							
12		13.6	13.9	13.85	.	.					
13		13.9?	±		.	.					
14		±			.	.					
15		±			.	.					

Images poor

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Thursday September 30, 1915

Scale R

y 150

Series 515

Plot, Sheet No. 216.

	Mc 8868			Pole -						8874 P.C.				
				Mc 8874.						P.C.				
	sc.1	sc.2		sc.1	sc.2					sc.1	sc.2	sc.1	sc.2	Diff
5										8.7 8.4	8.55	1 2	8.4 8.1	-2.06
6										9.6	9.50	1 1	9.4	-2.39
8										10.9	10.85	1 0	10.8	-2.62
9									Diff	11.8	11.75	0 1	11.7	-2.92
10	6.4 6.1			6.2 5.9			6.30	1 1	2.72	12.4	12.25	2 1	12.1	-3.23
11	7.5 7.2			6.9 6.6			7.20	3 3	2.35	13.1		tip		-3.55
12	7.9 7.6	B.		7.8 7.5			7.85	1 0	2.01	13.4	13.25	2 1	13.1	-3.39
13	8.5 8.2	8.4	8.45 1 0	8.4 8.1	8.1	8.25 2 1	8.35	10 10	1.95	13.9	13.70	2 2	13.5	-3.40
14	9.1 8.8	9.1	9.10 0 0	8.7 8.4	8.5	8.60 1 1	8.85	25 25	1.80	t		ms		
15		9.5			9.3		9.40	1 1	1.68					
16		10.2			9.6		9.90	3 3	1.50					
17		10.4			10.4		10.40	0 0	1.23					
18		11.2	0 1		10.6	1 1	10.90	3 3	1.16					
19		11.4	11.5 1 0	11.45	11.4	11.2 1 1	11.30	11.38	07 08	1.04				
20		11.7	11.8 0 1	11.75	11.5	11.7 1 0	11.60	11.68	07 08	1.05				
23		12.6	12.5 0 0	12.55	12.5	12.4 1 0	12.45	12.50	05 05	0.84				
25		13.2	13.2 1 0	13.20	t.p.	13.1 0 0		13.15	05 05	0.72				
26		13.3	13.4	13.35	13.4	13.4 1 0	13.40	13.38	03 02	0.95				
27		t	t.		13.7	13.6	13.65	13.65	2 2	1.04				
28					t	t.								
29														
30														
31														

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16. Scale B

Series 515 -

	mc 8868				Pole-	Diffr. Dnn. 8814						
	g		h			g		h				
	sc 1	sc 2	sc 1	sc 2		sc 1	sc 2	sc 1	sc 2			Diff
	7.7		7.9			7.7		7.8				
5	14 7.80	1.1	7.6			14 7.75	1.0	7.5		7.78	02	03 -1.29
	8.8		8.9			8.6		8.7				
6	8.5 8.85	0.1	8.6			8.3 8.65	0.1	8.4		8.75	10	10 -1.64
8	10.4 10.50	1.1	10.6			10.4 10.45	0.1	10.5		10.48	02	03 -2.25
9	11.4 11.40	0.0	11.4			t.p.		11.2		11.30	10	10 -2.47
10	11.6 11.60	0.0	11.6			11.4 11.45	0.1	11.5		11.52	08	07 -2.50
11	12.3 12.35	1.0	12.4			12.2 12.20	0.0	12.2		12.28	07	08 -2.73
12	12.6 12.60	0.0	12.6			12.4 12.45	0.1	12.5		12.52	08	07 -2.66
13	13.2 13.25	0.1	13.3			13.1 13.15	1.0	13.2		13.20	05	05 -2.90
14	13.4 13.45	0.1	13.5			13.8 13.70	1.1	13.6		13.58	13	12 -2.93
15	†		13.9			†		n.s.				
16	†		†									
17												
18												
19												
20												
23												

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Mc 8869 Carte $21^h - 16.5$

Diffr. Inm. Att. -22 P.C.

	sc.1	sc.2		Cw.	Magn	9^h sc.2	sc.2			sc.2	
1	6.0 5.1			.	.	11.3	11.4	11.35.1	0 - 2.87	8.88	12.2 - 3.17 9.03
2	6.2 5.9			2.62	8.82	11.6	11.4	11.50.1	1 - 2.50	9.00	t.p. . .
3	6.5 6.2			2.56	9.06	11.6	11.5	11.55.0	1 - 2.51	9.04	12.3 - 3.19 9.11
4	7.5 7.2	②		2.24	9.74	12.5	12.6?	12.55.2	0 - 2.78	9.77	t.p. . .
5	8.2 7.9	8.0	8.10	1.1 2.04 1.96	10.14	13.1	13.3	13.20.1	1 - 2.89	10.31	t.p. . .
6		9.4		1.61	11.01	f.	f.	.	.	.	
7		9.9		1.47	11.37						
8		10.7		1.21	11.91						
9		11.1		1.11	12.21						
10		11.3		1.06	12.36						
11		11.4		1.04	12.44						
12		11.5		1.03	12.53						
13		11.7		0.99	12.69						
14		12.2		0.89	13.09						
15	12.21	12.3	12.25 (0.1)	0.89	13.14						
16	12.6?	12.7	12.65? (0.1)	0.86	13.51?						
17	13.2	12.9	13.05 (2.1)	0.87	13.92						
18	~~13~~ p.	13.1	. (1.0)	0.88	13.98						
19		13.3	13.21 13.25	0.89	14.14						
20		f.	f.	.	.						

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Mc 8810 — D 11 — 21h −15°

P.C. Att-18

		sc.1	sc.2		Cw.		sc.1	sc.2	Cw.	Magn
1							9.5		−2.37	7.13
2							10.4		−2.61	7.79
3							10.5	(out of focus?)	−2.64	7.86
4							10.5		−2.64	7.86
5							10.5		−2.64	7.86
Edge	6	B.					t.p.			
	7	B.					10.7		−2.69	8.01
	8						10.6		−2.68	7.92
	9	B.					11.4		−2.91	8.49
"	10	B					11.4	? poor	−2.91	8.49?
	11	5.9 5.6					11.7		−3.00	8.70
	12	t.p.					t.p.			
	13	6.6 6.3			2.52	9.12	12.4		−3.23	9.17
	14	6.9 6.6			2.45	9.35	t.p.			
	15	7.9 7.6			2.11	10.01	t.p.			
	16	7.8 7.5			2.13	9.93	13.1		−3.40	10.30
	17	7.9 7.6	B.		2.11	10.01	t.p.			
	18	8.5 8.21	8.21	8.35	1.94	10.29				
	19	8.7 8.4	8.6 8.4	8.57	1.89	10.46				
	20	8.6 8.3	8.7 8.4	8.57	1.89	10.46				
	21	8.8 8.5	8.8	8.80	1.81	10.61				
	22	8.8 8.5	8.9	8.85	1.80	10.65				
	23	9.2 8.9	9.2	9.20	1.68	10.88				
	24	9.1 8.8	9.1	9.10	1.72	10.82				
	25		9.8		1.49	11.29				
	26		10.1		1.40	11.50				

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mc 8870 D11 21h - 15°

~~Diffr. fmc.~~ abv.-18.

	cc2	cc7	Cu.	Magn.
34	10.3		1.32	11.62
28	10.5		1.26	11.76
29	11.1		1.11	12.21
30	11.6		1.00	12.60
31	12.21		0.90	13.10
32	12.1		0.91	13.01
33	12.1		0.91	13.01
34	12.5		0.87	13.37
35	12.5	12.6	12.55 .10	0.86 13.41
36	12.5b	12.7	12.65 .01	0.86 13.51
37	t.fr. 13.4?			0.92 14.32?
38	13.21	13.3? v.fr.	13.25 .01	0.89 14.14?
39	13.5	13.5	13.50 .00	0.96 14.46
40	f	, ,	, ,	
41	n.s.	, ,	, ,	

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	Mc 8870		D11	Diff. Inn.
	g	h		Alt. -18
	sc.1 sc.2	sc.1 sc.2		Cw Magn
1	t.p. 1	t.p.	.	.
2	t.p.	t.p	.	.
3	t.p.	t.p.	.	.
4	9.1 8.8	9.4	9.25 1 2	-1.78 7.47
5	9.8	9.9	9.85 0 1	-1.98 7.87
6	t.p. t.p.	t.p.	.	. .
7	10.4	10.4	10.40 0 0	-2.18 8.22
8	10.1	10.1	10.10 0 0	-2.07 8.03
9	10.6	10.6	10.60 0 0	-2.25 8.35
10	10.6	10.7	10.65 0 1	-2.26 8.39
11	11.3	11.3	11.30 0 0	-2.46 8.84
12	11.4	11.4	11.40 0 0	-2.48 8.92
13	11.7	11.6	11.65 1 0	-2.54 9.11
14	12.2	12.2	12.20 0 0	-2.71 9.49
15	12.5	12.6	12.55 1 0	-2.78 9.77
16	12.7	t.p.		-2.79 9.91
17	13 t.p.	13.2		-2.89 10.31
18	13.2	13.2	13.20 0 0	-2.89 10.31
19	13.4	13.5	13.45 0 1	-2.91 10.54
20	13.5	t.p.		-2.92 10.58
21	t.	t.p.	.	. Ch. F. C.
22				
23				
24				

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Scale R

Series 515 Copied.

Mc 8871 Carte 21h – 2.5 I

Diffr. Im. Att. +03 P.C.

	pc.1	pc.2		Cw.		pc.1	pc.2		Cw.		pc.2	Cw	Magw
1	B. 6.7			.		9.5	9.6	9.55	i 0	-1.88	7.67	10.4	-2.61	7.79
2	6.4 6.8			2.51	9.21	11.1	t.p.			-2.56	9.14	12.4	-3.24	9.16
3	6.5 7.1			2.48	9.28	12.2	12.1	12.15	0 1	-2.69	9.46	12.5	-3.25	9.25
4	6.8 7.8			2.39	9.49	12.1	12.2	12.15	1 0	-2.69	9.46	13.1	-3.40	9.70
5	4.5 7.8			2.13	9.93	12.8	12.1	12.75	0 1	-2.80	9.95	t.p.	.	.
6	4.5 B. 8.7			2.13	9.93	12.8	13.21	13.00	2 2	-2.86	10.14	t.p.	.	.
7	8.4	8.1	8.10	0 0	1.84	10.54	13.4	13.5	13.45	0 1	-2.91	10.54	t.	.
8		9.5			1.59	11.09	t	t.			,	,		
9		9.5			1.59	11.09								
10		10.3			1.32	11.62								
11		10.1			1.21	11.91								
12		10.1			1.21	11.91								
13		11.3			1.06	12.36								
14		11.4	11.4	11.40	1.04	12.44								
15		11.1	11.1	11.10	0.99	12.69								
16		12.2	12.3	12.25	0.89	13.14								
17		12.8	12.6	12.70	0.86	13.56								
18		13.21	13.21	13.20	0.88	14.08								
19		t	t.p.		.	.								
20		t			.	.								

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mc 8812 Carte 22h – 23.5 ★

Diff Dms. Att -44 P.C.

	sc.1		Cw.		sc.2	sc.2	Cw.	Magn	sc.2	
1	B.		,		9.3	9.4	9.35 L 0	-.180	7.55	10.4 – 2.61 7.79
2	6.6		2.45	9.35	t.p.	12.1	-.268	9.42	13.2 – 3.41 9.79	
3	7.2		2.24	9.74	t.p.	12.5	-.276	9.74	t.p. ,	
4	7.8		2.06	10.06	t.p.	13.3	-.290	10.40		
5	7.6	B	4.11	10.01	t.p.	13.1	-.287	10.23		
6	8.5	8.8	8.80 0 0	1.81	10.61	7	7.	, ,		
7		9.4		1.62	11.02					
8		9.4		1.62	11.02					
9		9.8		1.49	11.29					
10		10.3		1.32	11.62					
11		10.6		1.24	11.84					
12		11.2		1.09	12.29					
13		11.2		1.09	12.29					
14		11.3		1.06	12.36					
15		12.1		0.91	13.01					
16	12.40 L 1	12.3	12.5	0.87	13.27					
17	12.60 0 0	12.6	12.6?	0.86	13.46?					
18	13.25 L 2	13.1	13.4	0.89	14.14					
19	13.35 0 1	13.4	13.3	0.91	14.26					
20	13.50 0 0	13.5	13.5	0.96	14.46					

Lch. P. 6.

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Mc 8873 Carte $22^h 0 - 9.5^\circ$

Diffr Dm. Att. -06 P.C.

	sc.1	sc.2	sc.2			sc.1	sc.1		Cm.	Magn	Sc.2	Cm.	Magn
1	B.					8.5	8.5	8.50	0 0	-1.52	6.98	9.6 ~~11.2~~	-2.39	7.21
2	B.					10.4	10.4	10.40	0 0	-2.18	8.22	11.2	-2.84	8.36
3	6.9 6.6			2.45	9.35	11.6	11.7	11.65	0 1	-2.54	9.11	12.5	-3.25	9.25
4	7.5 7.2			2.24	9.74	12.3	12.4	12.35	1 0	-2.73	9.62	13.3	-3.43	9.87
5	7.8 7.5			2.13	9.93	12.3	12.4	12.35	1 0	-2.73	9.62	13.4?	-3.42	9.98?
6	7.9 7.6	B.		2.10	10.00	12.4	12.7	12.55	2 1	-2.78	9.77	t.f.p.	,	,
7	8.8 8.5	8.9	8.85	2 1	1.80	10.65	t.f.p.	t.f.p.	,	,	,	t.f.p.	,	,
8	9.1 8.8	9.2	9.15	1 0	1.70	10.85								
9		9.6			1.56	11.16								
10		10.1			1.41	11.51								
11		10.4			1.29	11.69								
12		10.6			1.23	11.83								
13		11.4			1.04	12.44								
14		11.6			1.00	12.60								
15		11.8	11.9	11.75 (0 1)	.098	12.73								
16		11.8	11.6	11.70 (-1 1)	.098	12.68								
17		11.8	12.1	11.95 (-2 1)	.094	12.89								
18		12.2	12.1	12.15 (-0 1)	.090	13.05								
19		12.5	12.4	12.45 (-1 0)	.086	13.31								
20		13.4	13.4	13.40 (-0 0)	.094	14.34								

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Friday October 1, 1915 -

Scale R

Series 401 -

Plot, Sheet No. 217.

9:15

Mc 7235 Pole.

Mc 7240

P.C

7240

	sc.1	sc.2					sc.1	sc.2	sc.1	Diff.
5							7.1	6.8	7.2	7.30 15 15 – 0.81
6							7.9	7.6	8.0	8.00 05 05 – 0.89
8							9.5	9.5	9.6	9.60 05 05 – 1.37
9					Diff		10.4	10.4	10.5	10.45 00 00 – 1.62
10	5.3	5.4					10.5	10.5	10.5	10.60 10 10 – 1.58
11	5.3	5.5	5.35	1 0	3.67		11.1	11.1	11.1	11.10 00 00 – 1.55
12	6.1	6.1	5.70	1 1	3.85		11.8	11.6	11.6	11.65 05 05 – 1.79
13	6.4	6.7	6.40	0 0	3.46		12.3		t.p.	12.30 a ; – 2.00
14	7.1	7.2	6.85	1 2	3.35		12.6	12.65	12.7	12.68 03 02 – 2.03
15	7.6	t.p.	7.45	0 1	3.20		13.1		t.p.	13.10 a ; – 2.02
16	8.2 8.2	8.4	7.90	0 0	3.18		t.p.		t	
17	8.4 8.6	9.2	8.45	1 0	3.00		13.5?			13.50 a ; – 1.88
18	9.5	9.5	8.95	3 2	2.83		t			
19	10.1	10.1	9.50	0 0	2.56					
20	10.4	10.4	10.10	0 0	2.32					
23	11.2 11.1 11.3	11.1	10.40	0 0	2.33					
25	11.8 11.9 11.7	11.7 11.7	11.15	05 05	2.19					
26	12.4 12.4 12.4	12.3 12.5	11.75	05 05	2.12					
27	12.7 12.7 12.7	12.9 12.7	12.40	0 0	1.93					
28	13.3 13.2 13.4	13.2 13.3	12.75	05 05	1.94					
29	13.6 13.7 13.6	13.6 13.6	13.28	02 03	1.83					
30	t. t.	13.7? t.	13.62	03 02	2.04					
31			13.70	a ;	2.34					

m.s.

Ch. F. C.

10:09.

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Friday October 1, 1915 –

Card.

Scale R = Series 401 –

*Mc 7238 Carte 11h +10°

O.C. Oc. Att. +14

	sc.1			Cw.		sc.1	sc.2	sc.1	sc.2	Cw.	
						8.1		8.5			
1	B.			.		7.8	8.30	2.2	8.21	-0.99	7.31
2	B.			.			t.p.		10.1?	-1.48	8.62?
3	B.			.			10.3	10.35	1.0	10.4	-1.55	8.80
4	B.			.			t.p.		t.p.	.	.
5	B.			.			10.5?	now	t.p.	-1.59	8.91?
	6.5			.50	10.00						
6	6.2			3.78	9.98		12.2	12.20	2.0	12.2?	-1.97	10.23
	6.5			.50	10.00						
7	6.1	21		3.78	9.98		12.4				-2.00	10.40
	6.9											
8	6.6			3.40	10.30		12.5				-2.01	10.49
	7.7											
9	7.4	B.		3.18	10.88		13.2				-1.98	11.22
	8.4											
10	8.1	8.0	8.20	2.2	3.01	11.21	t.p.				.	.
	8.6											
11	8.3	8.9	8.75	2.1	2.84	11.59	m.s.				.	.
12		9.4			2.62	12.02						
13		9.1			2.53	12.23						
*2 14		~~10.1~~	~~10.1~~	~~10.10~~	~~2.42~~	~~12.52~~						
				.01								
15		10.2?	10.3	10.25?	2.38	12.63?						
16		t.p.	10.8?	v.p.	2.25	13.05?						
17		11.1	11.1	11.10	2.19	13.39						
18		t.p.	11.6?		2.08	13.68?						
19		12.2?	t.p.		1.98	14.18?						
20		t.p.	12.4?		1.98	15.38?						

* Reject? Quality D — measured by mistake.

Oct. 1, '15.

*2 Reject; see remarks on plate cover.

O.C. and faint stars poor – Im. large and hazy.

Eh. F. C.

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Friday October 1, 1915

Card.

Scale R Series 401 Copied.

mc 1239 Carte 11h. +25°

D.C. Alt +20

	sc 1	sc 2		Cw.	Magn	sc 1	sc 2	sc 2	Cw.	Magn
1	B			,			t.p.	9.4	-1.29	8.11
2	B			,			10.5	10.5	-1.59	8.91
3	B.			,			t.p.	t.p.	,	,
4	5.9			3.59	9.79		11.7	12.1	-1.90	10.00
5	B.			.	.		t.p.	t.p.	,	,
6	6.8			3.34	10.44		12.6		-2.01	10.59
7	6.7			3.36	10.36		12.4		-2.00	10.40
8	7.6	7.7	7.80	3.14	10.94		13.1		-2.00	11.10
9	7.5	7.4	7.60	3.21	10.81		13.1		-2.00	11.10
10	8.6	9.2	9.05	2.74	11.79		t.		,	,
11		9.5		2.60	12.10					
12		10.1		2.42	12.52					
13		10.1		2.42	12.52					
14		10.9		2.23	13.13					
15		10.7	10.8	2.26	13.01					
16		10.6	10.6	2.29	12.89					
17		11.2	11.3	2.14	13.39					
18		11.7	11.9	2.05	13.85					
19		12.2	12.2	1.98	14.18					
20		13.1	t.p.	1.90	15.00					

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Monday October 4, 1915

Scale R

Series 510.

Plot, Sheet No. 217

10:01

	mc 8803			Pole-										
				mc 8808			P.C.			B.C. 8808				
	pc 1	pc 2	pc 2	pc 1	pc 2	pc 2		pc 1	pc 2		pc 1	pc 2	Diff	
5								9.1 88	9.20	1 1		9.3	-.27	
6								10.2	10.25	0 1		10.3	-.34	
8								11.6	11.55	0 1		11.5	-.32	
9								Diff	12.3 12.40	1 1		12.5	-.357	
10	6.7	7.0		6.9	7.2		7.10	1 1	1.92	12.4 12.45	0 1	12.5	-.343	
11	7.6	7.9 1.8	7.85	1 0	7.9	7.9	7.85	0 1	7.85	9 10 10	6 1.70	+3 tf.	tf.	,
12	8.2	8.5	8.50	0 0	8.3	8.5	8.55	0 1	8.52	0 2 0 3	1.34	13.4	tf2	-.354
13	8.8	9.1 9.4	9.25	1 2	8.9	9.3	9.25	0 1	9.25	0 0 0 0	1.05	f.	f	,
14		9.7			10.1		9.90	2 2	0.75					
15		10.3			10.5		10.40	1 1	0.68					
16		10.7			10.7		10.70	0 0	0.70					
17		10.9			10.8		10.85	1 0	0.78					
18	11.7	11.6	11.65	1 0	11.4	11.7	11.55	2 1	11.60	0 5 0 5	0.46			
19	11.8	11.8	11.80	0 0	11.9	12.2	12.05	1 2	11.92	1 2 1 3	0.50			
20	12.4	12.4	12.40	0 0	12.4	12.5	12.45	0 1	12.42	0 2 0 3	0.31			
23	12.7	12.9	12.80	1 1	12.7	tf.			12.75	0 5 0 5	0.59			
25	13.6	13.6	13.60	0 0	13.4	13.5	13.45	0 1	13.52	0 8 0 7	0.35			
26	f	f			f.	f.			.		,			
27														
28														
29												ch. F.6.		
30														
31														

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1915phae.proj.10700

Monday October 4. 1915

17 Scale R Series 510-

	Mc 8803 g sc.1	sc.2	Pole.	Mc 8803 h sc.1	sc.2	Pole.	Mc 8808 g sc.1	sc.2	Pole.	Mc 8808 h sc.1	sc.2	Pole.	Diff. Im.	Diff
5	8.2	8.55	1.0	8.6	8.8		8.1	8.30	1.1	8.2	7.9		8.42 13 12	-1.93
6	9.5	9.60	1.1		9.7		9.4	9.50	1.1		9.6		9.55 05 05	-2.44
8	11.1	11.00	1.1		10.9		11.1	11.10	0.0		11.1		11.05 05 05	-2.82
9	11.6	11.60	0.0		11.6		11.5	11.60	1.1		11.7		11.60 00 00	-2.77
10	12.3	12.20	1.1		12.1		12.2	12.20	0.0		12.2		12.20 00 00	-3.18
11	12.6	12.55	0.1		12.5		12.4	12.50	1.1		12.6		12.52 03 02	-2.97
12	13.3	12.95	3.4		12.6		13.1	t.p.			13.2		13.02 07 08	-3.16
13	13.4	13.40	0.0		13.4		t.p.	13.6			13.50	10 10		-3.20
14	13.1						t.p.	t.p.			13.70	2		-3.05
15	n.s.			n.s.										
16														
17														
18														
19														
20														
23														
25														
26														

kh. F.6.

11132

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1915phae.proj.10700

Monday October 4, 1915 -

Scale R Series 510 - topical.

Mc 8804 Carte 18^{h} $+5^{\circ}$

Diffr. Inn. Att. +10 PC.

	sc 1	sc 2		Cw.	Magn.	sc 2	h		Cw	Magn	sc 2		
1	B.			.	.	10.9	10.9	10.90 00	− 2.76	8.14	11.2	− 3.32	7.88
2	6.8 6.5			2.10	8.90	11.8	12.1	11.95 2 1	− 2.96	8.99	12.3	− 3.46	8.84
3	7.9 7.6	B.		1.61	9.51	12.6	12.6	12.60 00	− 3.06	9.54	tip.	.	.
4	8.1	8.3	8.35 0 1	1.42	9.77	13.21	13.21	13.20 00	− 3.10	10.10	13.4?	− 3.50	9.90
5	8.8 8.5	8.5	8.45 2 1	1.31	9.96	13.21	13.3	13.25 0 1	− 3.10	10.15	m.s.	.	.
6		9.5		0.99	10.49	m.s	m.s.	.	.	.	.	.	.
7		9.8		0.89	10.69								
8		10.2		0.78	10.98								
9		10.4		0.73	11.13								
10		10.6		0.69	11.29								
11		10.7		0.68	11.38								
12		10.8		0.65	11.45								
13		11.3		0.57	11.87								
14		11.5		0.55	12.05								
15		11.5	11.5 11.50. 0 0	0.55	12.05								
16		11.8	12.1 11.95. 2 1	0.51	12.46								
17		12.4	12.4 12.40. 0 0	0.48	12.88								
18		12.7	12.8 12.75. 1 0	0.46	13.23								
19		13.4	13.6 13.50. 1 1	0.52	14.02								
20		↓	↓	.	.								

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Monday October 4, 1915

Scale R Series 5.10 Copied.

Mc 8805 Carte $18^h - 10.0°$

	Diff. Inn.		Alt. -10	O.C.
	sc.1 sc.2	Cu.	sc.2 ic.2	sc.2
1	B.	,	10.6 10.7 10.65 0.1 -.270 7.95	11.3 - 3.33 7.97
2	6.5 6.2	,	11.1 11.3 11.20 1.1 -.282 8.38	def? , , ,
3	6.8 6.5	2.10	8.90 11.7 11.8 11.75 1.0 -.292 8.83	12.3 - 3.46 8.84
4	7.6 7.3 B.	1.75	9.35 11.9 12.2 12.05 1.2 -.299 9.06	12.6 - 3.50 9.10
5	8.9 8.6 8.9	8.90 0.0 1.19	10.09 t.p. t.p. , ,	f. , , ,
6	~~8.5~~ W.S. 9.2	1.09	10.29 13.5? f -3.10 10.40?	
7	8.9 8.6 8.9	8.90 0.0 1.19	10.09 f f , ,	
8	10.4	0.73	11.13	
9	10.6	0.69	11.29	
10	11.5	0.55	12.05	
11	11.6	0.54	12.14	
12	11.7	0.53	12.23	
13	12.1	0.49	12.59	
14	12.3	0.48	12.78	
15	12.5	0.48	12.98	
16	12.40 0.0 12.7 12.4 12.65 0.1	0.48	12.88	
17	12.6 12.7 12.70 1.1	0.47	13.12	
18	12.6 12.8 13.00 1.1 ? poor	0.48	13.18	
19	12.9 13.1 13.70 0.0	0.49	13.49?	
20	13.1 13.7	, ,		

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Monday October 4 - 1915

Scale R. Series 510 - Copied.

Mc 8806 Carte 18h - 23.5°

Diffr. Imn. Alt. -53 BC.

	scr.1	scr.		Cw.	Magn.	scr.	scr.			scr.		
								75 ±1	7.99			
1	B.			.	.	10.6	10.9	10.90 00	-2.76	8.14		
2	6.8 6.5			2.10	8.90	11.7	11.6	11.65 10	-2.91	8.74	12.1	-3.44 8.56 6
3	7.7 7.1			1.84	9.24	12.2	12.1	12.15 01	-2.99	9.16	12.6 ? poor	-3.50 9.10 ?
4	7.7 7.4			1.70	9.40	12.2	12.2	12.20 00	-3.00	9.20	13.1	-3.50 9.60
5	8.0 7.7			1.57	9.57	t.p.	12.8		-3.07	9.73	13.4	-3.50 9.90
6	8.1 7.8	B		1.52	9.62	t.p.	t.p.		.	.	t.p.	. .
7	8.1 8.0	9.3	9.15 2 1	1.11	10.26	13.4	13.4	13.40 00	-3.10	10.30		
8	8.1	9.21	9.10 1 1	1.13	10.23	t.p.	t.p.		.	.		
9		9.7		0.93	10.63	t.	t.		.	.		
10		9.7		0.93	10.63							
11		10.6		0.70	11.30							
12		11.1		0.61	11.71							
13		10.9		0.64	11.54							
14		11.1		0.61	11.71							
15		11.4		0.57	11.97							
16		11.7	11.7 11.70	0.53	12.23							
17		12.3	12.4 12.35	0.48	12.83							
18		12.4	12.5 12.48	0.48	12.93							
19		13.2 ~~12.1~~	13.21 13.20	0.50	13.70							
20		t.p.	t.p.	.	.							

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Monday October 4, 1915

Scale R Series 510- Copied.

Mc 8807 NGC 6523 = G.C. 4361 $18^h - 24.4^\circ$

Diffr. Inn Att. -63 P.C.

	sc.1			Cw.	Magw	g	h		Cw.	Magw	sc.2	Cw
1	B			.	.	10.5	10.4	10.45	i 0	-2.65	7.80	10.1	-3.21	7.49
2	5.5 (5.8, .79)			.	.	11.1	10.9	11.00	1 1	-2.79	8.21	11.2	-3.31	7.89
3	7.6 (8.6)	B.		1.61	9.51	12.4	12.6	12.50	1 1	-3.04	9.46	t.p.	,	,
4	8.3	8.5	8.55	0 1	1.34	9.89	t.p.	12.9		-3.08	9.82	t.p.	.	.
5		10.1			0.81	10.91	t	f.		,	,			
6		10.6			0.69	11.29								
7		11.1	11.3	11.20	0.59	11.79								
8		11.7	11.8	11.75	0.53	12.28								
9		12.2	12.1	12.15	0.48	12.63								
10		12.6	12.8	12.70	0.48	13.18								
11		13.4	13.4	13.40	0.50	13.90								
12		13.5	13.6	13.55	0.52	14.07								
13		t.p.			.	.								
14		t.p.			.	.								
15		f.			.	.								

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Tuesday October 5, 1915 -

Scale R P H plates for Messier 3.

γ: 45	H 1529	M3	13^W
	pc.1	pc.2	pc.2
a	6.6		6.6
b		6.7	6.7
c	6.9		7.1
d	~~7+~~ 7.1		7.3
e		7.6	7.6
f		7.6	7.7
g		7.6	7.7
h		7.8?	7.8?
k		7.9	7.9?
l		7.9	8.1
m		8.3	8.4
n		8.6	8.7
o		8.7	8.8
p		9.3	9.2
h'		7.8	7.9
m'		8.6	8.7
l'		8.4	8.6

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Tuesday October 5, 1915

Scale 1/2 P

	H 1529		M 3	cont.	
	sc.1 sc.2	sc.1 sc.2		g	h
α	B.	B.		sc.1 5.2	t.p.
β	4.5	4.3		t.p.	sc.2 6.6
γ	4.3	4.3		t.p.	t.p.
* δ	5.4	5.2		sc.2 8.1	8.2
** ε	6.4	6.3		t.p	t.p
ζ	5.1	5.1		t.p.	8.9
η	5.9	5.9		t.p.	t.p.
Θ	5.9	5.1		"	9.1
λ	6.1	6.9		7	sup.
π	4.9	5.2		t.p	t.p.

~~* δ = plus a' as marked on 16955 from H 1529.~~ ✓ 0.1K

~~** ε = " Z " " " " "~~ 0.1K.

3:33

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Wednesday October 6, 1915.

Scale P

H plates for M3.

10-

H 1523

	sc.1	sc.2	Diffr. Imm. g sc.1 sc.2	Diffr. Imm. h sc.1 sc.2
a	7.1	7.1		
b	7.8	7.8		
c	7.8	7.9?		
d	7.9	7.9? poor		
e	8.1	8.6		
f	8.1? poor	8.6		
g	8.8	8.1		
h	9.4?	t.p.		
k	9.3.5	9.4 ~~8.2~~		
l	9.6	9.5		
m	9.3	9.4		
n	9.1	9.9		
o	9.9	f.		
p	f.			
α	B.	B.	t.p	t.p.
β	5.3	4.9	7.9	t.p.
γ	5.3	5.1	8.1	8.2
δ	6.1	5.6	t.p	t.p
ε	6.8	7.1	n.s	n.s.
ζ	6.6	~~6.6~~	n.s.	n.s.
η	6.8	6.7		
θ	6.7	6.7		
λ	t.p.	def?		
π	5.1	5.1	t.p	9.4
l'	9.5	9.5		
h'	9.4-	9.4		
k'	9.3.			

m' f.

η' = η as marked on M=3267, η = η on #16955.

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Wednesday October 6, 1915-

Scale P

H scales for m3-

H 1524 Pole

	sc.1	sc.2	Diffr Dm. sc.1	sc.2	sc.1	sc.2
10	3.1		t.p.		6.6?	
14	5.4	B	t.p.		8.3	
15	5.6	5.5	t.p.		8.6	
19	6.1	6.6	t		t	
20	6.8	6.8				
23		7.1				
25		7.8? 8.2)				
26		8.6				
27		8.1				
28		9.2)				
29		9.5				
30		10.0				
31		m.s.				

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Wednesday October 6, 1915-

Scale P H Series.

H 1525 M3.

Diffr. 2m.
sc.1 sc.2 (a) sc.1 sc.2 (b)

	sc1	sc2	sc.1 sc.2 (a)	sc.1 sc.2 (b)
a	7	7.8		
b		8.3		
c		8.5		
d		8.6		
e		8.9		
f		8.9		
g		9.1		
h		9.6		
k		th.		
l		9.5		
m		9.1		
n		f.		
o				
p				
h'		9.3		
l'		9.1		
m'		f.		
α	B.		t.p.	t.p.
β	5.1	4.9	8.4 ~~9.1~~	8.3 ~~7.8~~
γ	5.1	4.8	t.p. ~~8.1~~	8.3 ~~9.1~~
δ	6.1	5.8	t.p.	~~9~~ 7
ε		7.4	t.p.	t.p.
ζ	6.8	6.8	f	f.
η		7.3		
θ	6.8	6.8		
ι		8.5		
π	5.9	5.6		

η' = ~~7.8~~ 8.4

93 9.4 11.02

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Saturday October 9, 1915

Scale? Sc. measures of Plates for Praesepe taken at McCormick Obs'y.

B 55-

		sc.1	sc.2	sc.3
h^5				
k'	B			
k^2				
l	B			
m	B			
n'	B			
n^2				
o	B			
p	B			
q	B			
r	B			
off pl. s				
t				
u				
w	3.8?			
x	B			
y	B			
k^3	B			
z	4?:	4.1		
α	½ pl.	5.6?		
β	6.5	6.6		
γ	6.6	6.5 blow		
δ		n.s.		
ε		8.3	8.2	
ζ		7.1	7.6	
very near edge η	5.4	5.1		
h^4, k^4, m^4	off plate.			

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Saturday October 9, 1915.

Scale P Plates for Praesepe.

B 55.

μ	m.s.
θ	m.s.
λ	m.s.
$\sqrt{}$	m.s.

S, t, u off plate.

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1915phae..proj..10700

Saturday October 9, 1915

Scale P Plates for Praesepe.

B67- 1 Exposure -

	sc.1	sc.2	sc.3
w	4.3		
x	B		
y	B.		
k³	B.		
z	5.3	5.1	
α	6.6	6.6	
β	7.1	6.9	
γ		7.1	7.6
δ		8.8?	8.9? ~~m.s.~~
ε		8.4	8.5
ζ		8.5	8.5
η	5.6	5.5	
μ		m.s.	
θ		m.s.	
λ		m.s.	
ν			
k	3.2?		
0	t.p.		

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Saturday October 9, 1915.

Scale R P Plates for Praesepe - from the Cornell Obs'y.

B69

		1st Eqn.		2nd eqn.	
		sc. 1	sc. 2	sc. 1	sc. 2
	a	B		B	
	b	5.1		6.1 ? low	
	c			B.	
	e			B.	
	f			B	
	g	B.		B.	
	~~h~~				
	h'				
off pl.	h^2	.		.	
edge	h^3	B		B	
	h^4	B.		B.	
~~Ex~~	h^5	B		B	
	~~k~~				
	k'	B.		4.4	4.2
off pl.	k^2	~~B~~		.	.
	k^3	B.		def?	def.
	l	B	4.1	def?	def?
	m	4.3	4.2	5.2	5.2
	m'	4.1	B.	5.1	4.9
	o	4.5	4.3	5.4	5.1
	p	4.1	4.1	5.2	4.9
	q	4.8	4.4	5.1	5.6
	r	5.1	4.8	6.2	5.9
off pl.	s	.	.	.	.
	t	.	.	.	.
	~~u~~ v	.	~~+~~	.	

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1915phae..proj..10700

Saturday October 9, 1915—

Scale P Plates for Praesepe cont.

B69–

		1st exposure.			2nd exposure –		
		sc.1	sc.2	sc.3	sc.1	sc.2	sc.3
	w	7.2	7.1		8.1	8.6	
	x	B	.		B		
	y	B	.		B	.	
	z	8.2	8.4		7.		
	α	9.4	9.2		n.s.		
	β	def? 7.			.		
	γ	7	.		.		
	δ	n.s.	.		.		
	ε	n.s.	.		.		
	ζ		.		.		
near edge	η θ	8.4	8.3		7.		
	Θ	n.s			.		
	λ						
	μ						
	ν						
+20	2159	B			B		
	2185	B			B		
	2152	B			B		
	2153	B			B		
~~off pl.~~	2133	.			.		

10:40

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Monday October 18, 1915

Scale R

Series 510

Plot, Sheet No. 218

9:15

Mc 88+08

Pole.

Mc8814

O.C.

	sc.1	sc.2	sc.2	sc.1	sc.2	sc.2	sc.1	sc.2	Diff
5							8.8	9.15	-2.66
6							10.4	10.40	-3.29
8							11.4	11.50	-3.27
9							Diff.	12.5	12.40	-3.57
10	7.4 7.1	B		7.7 6.9			7.30	1	1	172	12.5	12.50	-3.48
11	8.2 7.9	8.0	8.10	1	1	8.2 7.9	B.	8.15	05	05	140	13.2	13.25	-3.70
12	8.7 8.4	8.5	8.60	1	1	8.6 8.3	8.5	8.55	0	1	8.58	02	03	128	13.4		tfp.
13		9.4				9.2 8.9	9.3	9.25	0	1	9.32	3 08 07	03	098	7.		
14		9.8					9.9	9.85	0	1	0.80						
15		10.4					10.4	10.40	0	0	0.68						
16		10.5					10.6	10.55	1	0	0.85						
17		10.9		1	1		11.1	11.00	1	1	0.63						
18		11.5	11.7	11.60	0	0		11.6	11.6	11.60	11.60	0000	0.46				
19		11.9	11.9	11.90	0	0		11.9	11.9	11.90	11.90	0000	0.52				
20		12.3	12.3	12.30	0	0		12.3	12.2	12.25	12.28	0203	0.45				
23		12.6	12.6	12.60	0	0		12.8	12.7	12.75	12.68	08 07	0.66				
25		13.4	13.4	13.40	0	0		13.4	13.4	13.40	13.40	0000	0.47				
26		tfp.	tfp.	,				13.5	13.7	13.60	1360	1	2	073			
27		tfp.		,				tfp			,			,			
28		n.s.		,							,			,			
29																	
30																	
31																	

Ch. F.C.

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1915phae..proj..10700

Monday October 18, 1915

218 Scale R

Series 510 –

mc 88 +08

Pole.

Diffr. Im.

	g sc 1	h sc 2	sc 1 sc 2	8814 g sc 1	g sc 2	h sc 1 sc 2		Diff.
	8.1			8.7		8.4		
5	7.8	8.25	1.2	7.9	8.30	1.1	8.28 03 02	-.179
6	9.4	9.35	01	9.6	9.55	01	9.45 10 10	-.234
8	10.8	10.95	2.1	11.1	11.10	00	11.02 07 08	-.279
9	11.6	11.75	2.1	11.6	11.65	01	11.70 05 05	-.287
10	12.2	12.35	2.1	12.2	12.20	00	12.28 07 08	-.326
11	12.8	12.80	00	12.8	12.75	01	12.78 02 03	-.323
12	13.1	13.25	1.2	12.9	12.90	00	13.08 17 18	-.322
13	13.5	13.50	00	13.5	13.50	00	13.50 00 00	-.320
14	13.7	t.p.		13.5	13.55	1.0	13.65 05 05	-.297 -.306
15	↓	↓		↓	↓			
16								
17								
18								
19								
20								
23								
25								

2.8 T

bh. B.b.

10.34

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Monday October 18, 1915 -

Scale R

Series 510 -

MC 8809

1 KS

pc 1 pc 2

Plate rejected by Miss Leavitt

Kapteyn regions not in centre.

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Monday October 18, 1915

Scale R Series 510 – ~~Eb. F. C.~~ Copied.

Mc 8 8 10 Carte $19^h +55°$

				Cw.	Magn	Diffr. Im. $\frac{g}{h}$		alt. +21		B.C.
	pc.1	pc.2	pc.3			pc.2	pc.3			pc.2
1	5.56 5.9 7.4			.	.	10.9	10.9	10.90 00	-2.81 8.09	11.6 - 3.39 8.21
2	7.1 7.9	B.		1.69	9.09	12.4	12.4	12.40 00	-3.21 9.19	12.1 - 3.59 9.11
3	7.6 9.2	8.1	8.00 1 1	1.47	9.47	13.1	12.9	13.00 1 1	-3.25 9.75	13.4 , ,
4	8.9	9.2	9.20 00	1.09	10.29	13.5	13.5	13.50 00	-3.13 10.37	t.p. , ,
5		9.5		0.98	10.48	t.p.	t.p.	,	,	
6		9.1		0.92	10.62	1	1	,	,	
7		10.4		0.76	11.16					
8		10.8		0.69	11.49					
9		11.4		0.60	12.00					
10		11.7		0.55	12.25					
11		11.9		0.53	12.43					
12		12.1		0.53	12.63					
13		12.4 12.45 1 0		0.52	12.92					
14		12.5	12.4 12.55 0 1	0.52	12.97					
15		12.6 12.69 00	12.5	0.52	13.07					
16		12.5	12.6 13.00 1 1	0.52	13.12					
17		12.9	13.1 13.15 1 0	0.54	13.54					
18		13.1	13.2	0.56	13.71					
19		t.p.	t.p.	,	,					
20		1	1	,	,					

Eb. F. C.

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Monday October 18, 1915 –

Scale R Series 510. Copied.

mc 8811 N.G.C. 6866 = G.C. 45444

Diffr. 9m. Att. +23 G.C.

	Sec.1		Cir.	Magn	Sec.2	Sec.2		Cir.	Magn	Sec.2	Cir.	Magn
	55											
1	5.2				10.7	10.6	10.65 10 – 2.74		7.91	11.1 –	3.30	7.80
	57											
2	5.4				10.7	10.6	10.65 10 – 2.74		7.91	11.6 –	3.39	8.21
	69											
3	6.6				12.2	12.1	12.15 01 – 3.15		9.00	12.5 –	3.56	8.94
	79	6										
4	7.3	B.	1.51	9.41	12.8	12.7	12.75 01 – 3.26		9.49	13.3	.	.
	97											
5	8.9	9.1	9.15 01 1.10	10.25	tb	tb						
6		9.9	0.87	10.77								
7		10.6	0.72	11.32								
8		10.7	0.71	11.41								
9		10.9	0.68	11.58								
		10.90 00										
10		10.9 10.9	0.68	11.58								
		11.40 00										
11		11.4 11.4	0.60	12.00								
		11.75 01										
12		11.8 11.7	0.54	12.29								
		12.20 11										
13		12.1 12.3	0.53	12.73								
		12.80 11										
14		12.9 12.7	0.53	13.33								
		13.45 10										
15		13.5 13.4	0.61	14.06								
16												
17												
18												
19												
20												

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Monday October 18, 1915

Scale R Series 510- Copied.

	Mc 8812	N.G.C. 6885 = G.C. 4559		Diffrdm.			P.C.		
				g	h				
	pc.1			pc.2	pc.2		pc.2	Cw.	Magn
1	B.			9.2	9.4	9.30 i.1 -2.28	7.02	9.3	-2.75	6.55
2	B 6.4			9.5	9.4	9.45 i.0 -2.34	7.11	9.9	-2.96	6.94
3	6.1 7.7			11.1	11.4	11.25 i.2 -2.91	8.34	11.6	-3.39	8.21
4	7.4 B. 8.4	1.59	9.29	12.3	12.3	12.30 0.0 -3.18	9.12	12.7	-3.59	9.11
5	8.1 8.2	8.30 1.1	1.36	9.66	13.1	sup? -3.22	X9.88	13.5	,	,
6	9.5		0.98	10.48	t.b.					
7	10.3		0.78	11.08						
8	10.4		0.76	11.16						
9	10.5 10.85 1.0		0.74	11.24						
10	10.9 10.8 11.60 0.0		0.69	11.54						
11	11.6 11.6 11.85 0.1		0.56	12.16						
12	11.8 11.9 12.40 0.0		0.54	12.39						
13	12.4 12.4 13.10 2.0		0.52	12.92						
14	13.1 13.1 13.50 1.1		0.55	13.65						
15	13.4 13.6		0.62	14.12						
16										
17										
18										
19										
20										

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Scale R — Series 510 — Copied.

Mc 88 13 — N.G.C. 6910 = G.C. 4575

Diffr. Dm. — Alt. 123 Dec.

	Dc.1	Dc.2		Cw.	Magn.	h Rc.1	Rc.2				Rc.2		
1	B.					10.2	10.5	10.35	2 1	-2.66	7.70	10.5	-3.14	7.36
	5.9													
2	5.6					11.2	11.4	11.30	1 1	-2.92	8.38	11.6	-3.39	8.21
	6.6													
3	6.3					11.6	11.6	11.60	0 0	-2.99	8.61	12.1	-3.48	8.62
	7.4													
4	7.1	B.		1.69	9.09	12.2	12.3	12.25	0 1	-3.18	9.07	12.7	-3.59	9.11
	8.7													
5	8.4	8.6	8.65	1 0 1.25	9.90	13.4	13.4	13.40	0 0	-3.15	10.25	13.4	,	,
	8.9													
6	8.6	8.9	8.90	0 0 1.16	10.06	13.5	13.5	13.50	0 0	-3.13	10.37	〃	,	,
7		10.2		0.80	11.00	〃	〃	,			,			
8		10.6		0.72	11.32									
9		10.7		0.71	11.41									
10		11.1 N.N 11.35	0 1	0.64	11.74									
11		11.4	11.3 11.60	0 0 0.61	11.96									
12		11.6	11.6 12.30	0 0 0.56	12.16									
13		12.3	12.3 13.10	0 0 0.53	12.83									
14		13.1	13.1 13.40	0 0 0.55	13.65									
15		13.4	13.4	0.61	14.01									
16														
17														
18														
19														
20														

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1915phae.proj.10700

AA Saturday, October 23, 1915

Scale P.,.. A Series 9.

10:35 *A 10906 Cl 13 +15°

		sc.1	sc.2	sc.3
Stars 1–15	B			Diff.
16	t.f.			
17	"			
18	"			
19	"			
20	t.f.			
21	t.f.			
22		11	1.6	7.65 10 5.59
23		8.2	8.1	8.15 01 5.25
24		9.1	9.2	9.15 10 4.75
25		9.3	9.7	9.35 10 4.72
26		9.9	99	9.90 00 4.38
27		m.s.		
28				
29				
30				
31				
32				
33				

* Images very peculiar - ~~st~~ ~~[illegible]~~ skpear 3 cornered. difficult for sc. measures.

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1915phae.proj.10700

Saturday October 23, 1915

Scale P A Series 9 copied 27.1135

A 10908 E5 12 - 45° alt. corr. -.08

	sc.1	sc.2	sc.3		Curve	Magn.
Stars 1-16 are Bright						
17	a					
18	5.1?	4.8?			6.34	11.14?
19	5.2	4.9			6.30	11.20
20	t.p.					
21	t.p.					
22	6.7	6.4?	6.5	6.45?	5.75	12.20?
23	t.p.					
24	7.3				5.45	12.75
25	7.3				5.45	12.75
26	8.3?	8.4	8.4	8.35?	5.08	13.43?
27	8.1	~~8.4~~ 8.1		8.70	4.98	13.68
28	9.1	9.2		9.15	4.83	13.98
29	9.2	9.3		9.25	4.80	14.05
30	9.4	9.4		9.40	4.75	14.15
31	9.1	9.1		9.10	4.66	14.35
32	1	3				

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1915phae.proj.10700

Saturday October 23 - 1915

Scale P — A Series 9 - Copied 27:185

~~477~~ *A 10909 — 42 - — 12 - 15° alt. corr. -.40

Stars 1 - 19 are too bright

		sc 1	sc 2	sc 3	Curve	Magn.
20	t.f.					
21	|					
22	|					
23	|					
24	t.f.					
25	t.f.					
26	|					
27	|					
28	t.f.					
29	t.f.					
30	t.f.					
31	t.f.					
32		7.6?	7.1	7.65?01	5.32	12.97?
33		8.3	8.4	8.35 ±0	5.08	13.43
34		8.4	8.5	8.45 01	5.05	13.50
35	°	9.1	8.9	9.00 1±	4.88	13.88
36		9.3	9.4	9.35 ±0	4.77	14.12
37		9.4	9.4	9.40 00	4.75	14.15
38		9.1	9.1	9.70 00	4.65	14.35
39		10.0	9.9	9.95 01	4.58	14.53
40		ns.				

* Images are very poor.

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1915phae.proj.10700

Saturday October 23, 1915.

Scale P

A Series 9.

Copied 45:10

A 10911- Coal Sack 12 50 - 62.5

Alt. corr. - 2.9

	Ser.1	Ser.2	Ser.3	Curve	Magn.
1	t.p.				
2	"				
3	"				
4	"				
5	"				
6	"				
7	"				
8	"				
9	t.p.				
10		t.p.			
11		t.p.			
12		t.p.			
13		t.p.	7.5? v.f.	5.37	12.87?
14		1.6	7.7? 7.65	5.31	12.96?
15		1.8	7.8	5.26	13.06
16		8.3	8.4 8.35	5.08	13.43
17		9.1	9.1 9.10	4.85	13.95
18		8.6	8.7 8.65	4.99	13.64
19		9.6	9.1 9.65	4.68	14.33
20		f.	f		

Images are 3 cornered and very difficult to compare with scale.

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1915phae.proj.10700

Saturday October 23, 1915

Scale P

A Series 9-

*A 1091 12° Southern Cross. 12 20 - 62.5 -

*measured out of order by mistake. Alt corr. -.23

	sc 1	sc 2	Curve	Magn.
1				
2	|			
3				
4	1			
5	mag			
6	fe			
7	Ave			
8	Very			
9				
10	Poor			
11				
12	|			
13				
14		t.p.		
15		t.p.		
16		8.4 ? poor	5.06	13.46²
17		t.p.		
18		t.p.		
19		t.p.		
20		1.		

See note on prec. page. also applies here.

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1915phae.proj.10700

Saturday, Octr 23, 1915

Scale P

A series 9.

A 10912 C8 15 +15°

		201	202	Diff.
Stars 1–17 are too bright				
	18	B		
	19	B		
	20	B		
	20a	5.21	4.9	6.32
	20b	5.5	5.2	6.17
	21	t.p.		.
	22	6.4	6.1	5.72
	23	6.5	6.2	5.79
	24	6.4	6.1	5.99
	25	t.p.		.
25 a		7.3?	7.3?	7.30?00 5.37
	26	7.5	7.6	7.55 ±0 5.17
	27	t.p.	t.p.	.
27a		8.6	8.6	8.60 00 5.08
	28			.
28	29	9.3		4.57
29	30	9.3		4.66
	30	?		.
29a		9.2		5.28

11.35

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1915phae.proj.10700

Monday October 25, 1915.

Scale R Series 508. Plot, Sheet No. 218.

10: 23 *mc 8784 Pole-

mc 8.1.89 +.p. (Qual B)

	sc.1			Diff.	P.C. sc 1	
5					8.8 8.5	3 -2.41
6					· badly fogged.	·
8					· badly fogged. } Do not meas. for H.S.L.	·
9	7.1				· " "	·
10	6.8 7.9			1.92	v.f.	·
11	7.6 8.4	B.		1.65	12.6	-3.05
12	8.1 8.9	8.2	8.30 i 1	1.56	def.	·
13	8.6	8.6	8.75 i 2	1.55	13.1	-3.40
14		9.5		1.15	n.s.	·
15		10.1		0.98		
16		10.4		1.00		
17		10.7		0.93		
18		11.1 11.50 0 0		0.96		
19		11.5 11.5 11.75 0 1		0.92		
20		11.8 11.1 12.35 1 0		0.98		
23		12.3 12.4 12.80 0 0		0.99		
25		12.8 12.8 13.55 1 0 ? show		1.07		
26		13.5? 13.6		0.78		
27		+p. ~~13.5~~ f.				
28		f.		·		
29		n.s.		·	Ch. F.C.	
30						

Remeas. Nov. 15, 15'

	sc 2
25	12.8
26	13.5? new spot
27	f

* one whole corner of plate - very badly fogged.

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Monday October 25, 1915.

Scale R

Series 508-

	Mc 8784		Pole	Diffr. Inn.
	g	h		
	sc.1 sc.2	sc.1 sc.2	Diff.	
	8.0 8.1	8.1		
5	7.7 8.05	7.8	-1.56	
badly fogged. 6	.	.	.	
" 8	.	.	.	
" " 9	.	.	.	
10	t.p.	11.5	-2.48	
11	t.p.	12.2	-2.65	
12	12.7 12.65	12.6	-2.79	
13	t.p.	13.3	-3.00	
14	13.4 13.40	13.4	-2.75	
15	13.5 13.60	13.7	-2.52	
16	↓	↓	.	
17				
18				
19				
20				

Ch. P. C.

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1915phae.proj.10700

Monday October 25, 1915

Card.

Scale R Series 508. Alt +02 Copied.

*mc 8785 Carte 21 – 2.5°

	sc.1	sc.2		Cu.	Magn	Diff. Im. sc.1	sc.2				Oc. sc.2	Cu.	Magn
1	B			.		9.2	9.2	9.20	00	-1.86 7.14	10.1?	-2.58	7.52?
2	B			.		t.p.	t.p.	.	.		12.5?	-3.09	9.41?
3	6.6 6.3			.		t.p.	t.p.	.	.		t.p.	.	.
4	6.7 6.4			2.00	8.70	12.5	12.3	7.240	1	-2.72 9.68	12.1	-3.14	9.56
† 5	7.4 7.1	7.4 7.1	7.40	00 1.80	9.20	13.1	t.p.			-2.82 10.28	13.5	-3.35	10.15
6	7.7 6.9	7.3 B	7.25	01 1.88	9.13	t.p.	t.p.		.	.	13.4	-3.32	10.08
7	8.4 8.1	8.2	8.30	1 1.52	9.82	13.5	13.5	13.500		-2.71 10.79	?	.	.
8	9.0 8.1	9.2	9.10	1 1.28	10.38	n.s.	n.s.		.	.			
9	9.0 8.1	9.2	9.10	1 1.28	10.38								
10		9.5		1.18	10.68								
11		10.5		0.98	11.48								
12		10.4		0.99	11.39								
13		10.8		0.94	11.74								
14		11.2		0.94	12.14								
15		11.7 poor	11.7?	00 11.70	0.95	12.65?							
16		12.6 12.5	12.55	01 1.01	13.56								
17		12.6 12.7	12.65	01 1.02	13.67								
18		13.4 13.4	13.40	00 .	.								
19		14.0 14.0	14.00	00 .	.								
20		n.s. ½		.	.								

* Plate is poor. Images very difficult to compare with scale.

†. Star 5 is brighter than 6, but 6 seems to have been measured brighter than 5. — 6 a red star?

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1915phae.proj.10700

Monday October 25, 1915. Cand.

Scale R Series 508 Copied.

Mo 8787 C11 Alt +15

	sc.1	sc.2				A.C sc.1	sc.2		
1	B					86 8.3	.	.	
2	B					88 8.5	-2.32	6.48	
3	B.					9.6	-2.49	7.11	
4	B					10.1	-2.58	7.52	
5	52 4.9					10.6	-2.66	7.94	
6	B.					10.5	-2.64	7.86	
7	57 5.4					t.p.	.	.	
8	59 5.6					11.6?	-2.88	8.72?	
9	66 6.3					t.p.	.	.	
10	67 1.4			2.00	8.70	12.4?	-3.06	9.34?	
11	73 1.0			1.84	9.14	t.p.	.	.	
12	73 1.0			1.84	9.14	t.p.	.	.	
13	71 6.8			1.89	8.99	+2.5 rej. too close to tot sola.			
14	74 7.1	③		1.80	9.20	t.p.	.	.	
15	81 7.8	80	8.05 10	1.60	9.65	t.p.	.	.	
16	85 8.2	83	8.40 11	1.48	9.88	13.8	-3.44	10.36	
17	90 8.97	9.1	9.05 01	1.30	10.35	t.	.	.	
18	90 8.1	9.1	9.05 01	1.30	10.35				
19		9.4		1.20	10.60				
20		9.1		1.12	10.82				
21		10.3	10.4 10.35 L0	1.00	11.35				
22		10.4		0.99	11.39				
23		10.5		0.98	11.48				
24		11.1		0.94	12.04				
25		11.2		0.94	12.14				
26		11.7		0.95	12.65				

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1915phae.proj.10700

Monday October 25. 1915

Scale R Series 508.

MC 8787 C 11 -

	sc2				
24	11.7			0.95	12.65
28	12.1			0.98	13.08
29	12.3	12.4	12.35	1.00	13.35
30	12.8	12.8	12.80	1.04	13.84
31	13.1	13.1	13.10	1.08	14.18
32	13.2	13.3	13.250	,	.
33	〃	〃	,	.	.
34	〃	〃	,	.	,
35					

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Monday October 25, 1915

Scale R Series 508 Copied.

Mc 8787 C 11 Diffr Im

	g	h			Cw.	Magn
	sc.1	sc.2	sc.1	sc.2		
	8.0		8.1			
1	7.7	8.05 0 1	7.8		-1.57	6.48
	8.4		8.4			
2	8.1	8.40 0 0	8.1		-1.66	6.74
3	9.3	9.40 1 1		9.5	-1.90	7.50
4	9.4			9.4 t.p.	-1.90	7.50
5	10.4				-2.19	8.21
6	10.3	10.25 1 0		10.2	-2.14	8.11
7	10.1			t.p.	-2.26	8.44
8	nearly sup.			11.1	-2.38	8.72
9	11.4	11.55 2 1		11.7	-2.50	9.20
10	t.p.			t.p.	.	.
11	12.4			t.p.	-2.72	9.68
12	t.p.			12.3	-2.70	9.60
13	12.4			. (Too close to bri star)	-2.72	9.68
14	12.4			t.p.	-2.72	9.68
15	13.1			t.p.	-2.83	10.27
16	13.4	13.40 0 0		13.4	-2.76	10.64
17	1.			1.	.	.
18						
19						
20						

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Monday October 25, 1915 -

Cand.

Copied.

Scale R

Series 508.

Mc8788 Carte 21 +55° Alt +20

					Diff. Im.					P.C.		
	sc.1				sc.2	sc.2				sc.2		
1	B 6.7			,	,	9.5	9.6	9.55	1.0 -1.95	7.60	9.5 - 2.49	7.01
2	6.4			2.00	8.70	t.p.	t.p.	,	,	,	t.p.	, ,
3	8.1 7.8 8.8	8.20	8.15	1.0 1.57	9.72	12.4	12.5	12.45	0.1 -2.73	9.72	t.p.	, ,
4	8.5 9.1	9.1	8.95	2.1 1.32	10.27	t.p.	t.p.	,	, ,		t.p.	, ,
5	8.8 9.1	9.1	9.10	0.0 1.28	10.38	13.2	13.5	13.35	2.1 -2.59	10.76	f.	, ,
6		10.2		1.02	11.22	f	f.	,	, ,			
7		10.3		1.00	11.30							
8		10.6		0.96	11.56							
9		11.1		0.94	12.04							
10		11.7		0.95	12.65							
11		12.1		0.98	13.08							
12		12.1		0.98	13.08							
13		12.2		0.99	13.19							
14		12.4		1.00	13.24							
15		12.65 1.0 12.7	12.6	1.02	13.67							
16		13.00 1.1 13.1	12.9	1.07	14.07							
17		13.25 0.1 13.2	13.3	,	,							
18		13.40 0.0 13.4	13.4	,	,							
19		13.45 1.0 13.5	13.4	,	,							
20		f.	f.	,	,							

Images of P.C. very poor.

11:57 -

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1915phae.proj.10700

Wednesday October 2?, 1915

Shut no

Scale B

1:30 –

Sc. measures of A T' plate – St. Regions.

α 7670 C8 15 + 15

	sec. 1	sec ½	
1	B		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	B		
14	t.f.		
15	4.2 (4.5 3.9)		6.46
16	t.f.		
17			
18	t.f. (4.8)		
19	4.5		6.48
20	4.2 (4.5 3.9) B.		6.67
21	5.4 (5.7 5.20 1')	5.3	6.22
22	B.	5.4 (5.4 5.58 6.00 2½')	6.42
23	6.1	6.2	5.99
24	t.f. (6.4)	5.8	6.29
25	6.4 (6.8 6.25 1½')	6.4	6.01
26	6.6	t.f.	6.43

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1915phae.proj.10700

Wednesday October 21, 1915—

Scale P Se. measures of a T' plate.
A 7670 68 cont.

		sc 2	
		1.3	
27	6.7		6.01
28	8.3	8.25 8.2	5.61
29	8.1	8.15 8.2	5.83
30	8.6	8.65 8.1	5.89
31	9.3	9.25 9.2	5.73
32	~~7~~	~~7~~	
33			
34			
	sc 1	sc 2 sc 1	
20 a	~~5.7~~ 4.9	4.6 4.60 ~~5.2~~ 4.9 4.6	6.62
20 b	~~5.5~~ 5.2	4.9 5.10 ~~5.6~~ 5.3 5.3	6.27
	~~6.8~~ 6.7	6.40 2	
25 a	6.5	6.6	6.27
27 a		7.6	6.05
29 a		8.4	6.05

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Wednesday October 21, 1915.

Copied B27:143

Scale P Sc. measures of a Y plate.

*A 7670 cont. E6 14 40-45°

Ca magn Accidental end ep.?

	sc.1	sc.2			sc.1	sc.2
1	B					
2	|					
3	|					
4	|					
5	|					
6	|					
7	|					
8	|					
9	|					
10	|					
11	|					
12	|				B.	
13	|				B	
14	|				B	
15	|				6.4 5.8 6.1?	
16	B				t.p.	
17	B				t.p.	
18	B.				6.7 6.4	
19	B				6.7 6.4	
20	nearly sup.				6.5	
21	t.p.				6.5 6.8	6.6
22	t.p.				6.8 6.6	6.6
23	4.82 4.5		6.54	10,74	t.p. 6.4	6.6
24	t.p.				6.1	6.1
25	5.0 5.3		6.39	11,39		7.1?
26	5.7 5.5		6.36	11,56		9.5

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1915phae.proj.10700

Wednesday October 21, 1915.

Scale 8 Sc measures of a Y plate.
R 7640.

	Sc 1	Sc 2		Cu Magn		Sc 2
27	5.1 5.4			6.37	11,47	1.6
28	5.9 6.2			6.24	12,14	1.9
29	t.p.					t.p.
30	6.0 6.3			6.22	1221	8.6
31	6.0 6.3	6.3	6.15 ±1	6.18	1293	8.6
32	6.2 6.5	6.4	6.30 ±1	6.17	12,47	8.1
33	6.3 6.6	6.6	6.45 ±2	6.16	12,61	t.p.
34	6.4 6.7	6.6	6.50 ±1	6.18 5	12.65	9.2
35	6.4 6.7	6.6	6.50 ±1	6.15	12,65	t.p.
36		7.8 3.		6.02	13,32	3.
37		7.3		6.02	13,32	
38		7.6		5.98	13,58	
39		7.6		5.98	13,58	
40		8.4		5.87	14,27	
41		8.6		5.85	14,45	
42		9.4		5.77	15,17	
43		9.5		5.74	15,26	
44		9.5		5.74	15,26	
45		3.				

* Secondary diffn. of each star almost superposed on star. Very diff to meas. Retain measures?

Reject. Use for Relativ magn.

2:45

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Monday November 1 - 1915 -

Scale R

Series 413.

Plot, Sheet No. 222.

10:45

Mc 7362 Pole.

Mc 7361

P.C. 7364.

	Mc 7361 ec	Mc 7361 rc	Mc 7362 ec	Mc 7362 rc				P.C. 7364 ec	P.C. 7364 rc	Diff	
								8.2			
5								7.9	8.20 0 0	7.9	-.171
								9.1		8.8	
6								8.8	8.95 1 2	8.5	-.184
8								10.4	10.40 0 0	10.4	-.217
9								Diff.	11.21 10.95 2 1	10.9	-.212
10	6.7 5.9		6.4 6.1		6.30	1	1	2.72	11.4 11.15 2 3	10.9	-.213
11	6.9 6.6		6.8 6.5		6.85	1	0	2.70	11.8 11.70 1 1	11.6	-.215
12	7.7 7.4	B.	7.5 7.2		7.60	1	1	2.26	12.2 12.15 0 1	12.1	-.229
13	8.2 7.9	8.2	8.20 0 0	7.6 B.	8.05	15	15	2.25	12.6 12.60 0 0	12.6	-.230
14	8.7 8.4	8.8	8.75 1 0	8.4 8.3	8.50	1	1	8.62	13.2 13.2 2.03	t.f. 13.2	-.255
15	9.1 8.8	9.1	9.10 0 0	8.8 8.9	9.00	1	1	9.05	05 05 2.03	13.4 t.f.	-.232
16		9.6		9.6	9.60	0	0	1.80	13.9? 13.65 3 4	13.4	-.225
17		10.1		9.9	10.00	1	1	1.63	f.		
18		10.5		10.6	10.55	1	0	1.51			
19		10.8		10.9	10.85	0	1	1.57			
20		11.3		11.2	11.25	1	0	1.48			
23		11.9		11.70 0 0 11.7 11.7	11.80	10	10	1.54			
25		12.3		12.30 0 0 12.3 12.3	12.30	00	00	1.57			
26		12.85 1 0 12.9 12.8		12.75 1 0 12.7 12.8	12.80	05	05	1.53			
24		13.20 0 0 13.2 13.2		12.90 0 0 12.9 12.9	13.05	15	15	1.64			
28		13.35 0 1 13.4 13.3		13.46 0 0 13.4 13.4	13.38	03	02	1.73			
29		13.50 0 0 13.5 13.5		13.90 1 1 14.0 13.8	13.70	20	20	1.96			Ch. P.C.
30		13.70 0 0 13.7 13.7		f f	13.70	0	1	2.34			
31		n.s.		n.s. n.s.							

Star Images not circular.

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Monday November 1, 1915

Scale R Series 413 -

	mc 7362 g sc.1	sc.2	h sc.1	sc.2	Pole.	mc 7367 g sc.1	sc.2	h sc.1	sc.2	Diff.
5	def.		8.0			7.7		7.8		
	8.7		1.1			7.75 1.0		7.5		7.88 12 13 - 1.39
6	8.4	8.70 0.0	8.7			8.4	8.45 0.1	8.5		
			8.4			8.1		8.2		8.58 12 13 - 1.47
8	10.3	10.30 0.0	10.3			10.2	10.25 0.1	10.3		10.28 02 03 - 2.05
9	10.1	10.10 0.0	10.1			10.6	10.60 0.0	10.6		10.65 05 05 - 1.82
10	11.1	11.20 1.1	11.3			11.1	11.15 1.0	11.2		11.18 02 03 - 2.16
11	11.6	11.70 1.1	11.8			11.6	11.65 0.1	11.7		11.68 02 03 - 2.13
12	12.2	12.15 0.1	12.1			11.8	11.80 0.0	11.8		11.98 17 18 - 2.12
13	12.5	12.45 1.0	12.4			12.3	12.40 1.1	12.5		12.42 03 02 - 2.12
14	12.1	12.60 1.1	12.5			12.9	12.85 1.0	12.8		12.72 12 13 - 2.07
15	13.3	13.25 1.0	13.2			13.2	13.20 0.0	13.2		13.22 03 02 - 2.14
16	t.f.		13.5			13.4	13.40 0.0	13.4		13.45 05 05 - 2.05
17	t.f.		t.f.			13.6	13.65 0.1	13.7		13.65 ; a - 2.02
18	f.		f.			f		f		, , ,
19										
20										

Ch. P.C.

1.07 -

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Monday November 1, 1915

Card.

Scale R

Series 413.

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Mc 7363 C12 23 +15° Att. 16

P.C.

		sc.1			Cw.	Magn	sc.1	sc.2	Cw.	Magn
							8.0			
1							7.7		-1.68	6.32
							8.6			
2							8.3		-1.79	6.81
							9.0			
3							8.1		-1.84	7.16
							9.2			
4							8.9		-1.88	7.32
5								9.1	-1.96	7.74
6	B.				.			10.4	-2.09	8.31
7								10.5	-2.10	8.40
8	B				.			10.6	-2.11	8.49
9	B.				.			11.2	-2.18	9.02
10	B.				.			11.3	-2.19	9.11
11	B.				.			11.5	-2.21	9.29
		6.6								
12	6.3				2.69	9.29		11.7	-2.23	9.47
		7.4								
13	7.1				2.45	9.85		12.1	-2.28	9.82
		6.9								
14	6.7				2.51	9.71		12.2	-2.29	9.91
		6.8								
15	6.5				2.63	9.43		12.1	-2.28	9.82
		7.8								
16	7.5	B.			2.31	10.11		12.9	-2.36	10.54
		8.1								
17	7.8	8.1	8.10	0 0	2.20	10.30		13.1	-2.47	10.63
		8.6								
17a	8.3	8.4	8.50	1 1	2.09	10.59		13.4	-2.36	11.04
		9.1								
18	8.8	8.8	8.95	1 2	1.97	10.92		13.1	-2.35	11.35
19	dbl.	.			.	.		t.f.		.
19a	~~20~~	9.6			1.80	11.40				Ceh. P.C.
20		9.7			1.77	11.47				
21		10.3			1.62	11.92				
21a		10.6			1.55	12.15				
22		11.2			1.50	12.70				
23		11.2			1.50	12.70				

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Mc 1363 C 12 cont- Alt. +16

	Sc 2	Sc 2		Cw.	Magn
24	11.5	11.4	11.45	1.50	12.95
25	11.5	11.5	11.50	1.50	13.00
26	11.7	11.7	11.70	1.50	13.20
27	12.3	12.2	12.25	1.52	13.77
28	12.2	12.2	12.20	1.51	13.71
29	def?	def?	.	.	.
30	12.8	12.9	12.85	1.57	14.42
31	13.4	13.4	13.40	1.75	15.15
32	13.8	13.8	13.80	2.20	16.00
33	sup.		.	.	.
34	↓		.	.	.

b.h. P.C.

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Scale R Series 413- Lopsid.

Mc 3639 C 12 Diffr. Inn. Alt. +16

	g		h		Cu	Magn
	Sc. 1	Sc. 2	Sc. 1	Sc. 2		
bis bright 1			B.		.	.
2	7.5	7.85	7.6		-1.32	6.53
3	8.4	8.65	8.1		-1.52	7.03
4	8.3		t.p.		-1.56	7.04
5	8.6	8.90	8.6		-1.64	7.26
6	9.8	10.05		10.3	-1.94	8.11
edge 7	t.p.		t.p.		.	.
8	t.p.		t.p.		.	.
9	10.6	10.60		10.6	-2.02	8.58
10	10.6	10.60		10.6	-2.02	8.58
11	10.7	10.95		11.2	-2.07	8.88
12	11.3	11.26		11.2	-2.10	9.15
13	11.6	11.60		11.6	-2.11	9.49
14	11.7	11.65		11.6	-2.11	9.54
15	11.7	11.60		11.5	-2.11	9.49
16	12.2	12.25		12.3	-2.12	10.13
17	12.6	12.50		12.4	-2.11	10.39
17a	12.8	13.00		13.2	-2.09	10.91
18	13.1	13.20		13.3	-2.08	11.12
19	dbl.		dbl.		.	.
19a	13.7	13.60	dbl.	13.5	-2.04	11.56
20	13.7		t.		-2.03	11.67
21	t.		t.		.	.
21a	m.s.				.	.

bl. P.C.

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Mc 7364 Carte 23 - 25

	sc.1	sc.2		Cu.	Magn	Diffr Inm. g sc.2	h sc.2	Att. tol			sc.2	Cu.	
1	6.2			2.71	9.21	11.2	11.2	11.20	0 0	-2.10	9.10	11.4	-2.20	9.20
2	7.3 7.0			2.48	9.78	t.f.	12.1			-2.12	9.98	12.4	-2.31	10.09
3	7.8 1.5	B.		2.31	10.11	t.f.	12.2			-2.12	10.08	12.7	w.s. -2.34	10.36
4	8.5	8.6	8.70	1 1	2.03	10.73	13.4	13.4	13.40	0 0	-2.06	11.34	‡ .	.
5	8.6	9.0	8.95	1 0	1.98	10.93	13.4	13.4	13.40	0 0	-2.06	11.34	‡ .	.
6		9.7			1.77	11.47	‡	‡		.	.		‡ .	.
7		9.9			1.72	11.62								
8		10.4			1.60	12.00								
9		11.1			1.50	12.60								
10		11.4	11.2	11.30	1.50	12.80								
11		12.2	12.2	12.20	1.52	13.72								
12		12.6	12.5	12.55	1.54	14.09								
13		12.2?	12.3	12.25	1.52	13.77 ?								
14		12.7	12.1	12.40	1.55	14.25								
15		t.f.	t.f.		.	.								
16														
17														
18														
19														
20														

Ch. P.C.

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Ma 1367 ^{6}

Carlé

~~8~~ 00 +6 5 0
~~8 3 — 16 5~~

Diffr. Dm. Alt. +19 Sc.

	Sc. 1	Sc. 2		Cw.	Magn	h m s / Sc. 1 / Sc. 2			Sc. 2	Cw	Magn
						10 35 10					
1.	B. 6.5					10.3	10.4	-1.99	8.36	10.5 - 2.10	8.40
					9.21		11 25 01				
2.	6.2			2.71	~~8.91~~	11.2	11.3	-2.10	9.15	11.5 - 2.21	9.29
	7.6						12 10 00				
3	7.3			2.38	9.98	12.1	12.1	-2.12	9.98	12.4 - 2.31	10.09
	7.9						12 35 10				
4.	7.6	B.		2.28	10.18	12.3	12.4	-2.12	10.23	12.8 - 2.35	10.46
	8.6										
5.	8.3	8.4	8.50 1 1	2.09	10.59	12.9	def.	-2.10	10.80	13.2 - 2.38	10.82
	8.9						13 30 00				
6	8.6	8.8	8.85 1 0	2.00	10.85	13.3	13.3	-2.07	11.23	tfp.	
							13 55 10				
7		9.6 ^{5}		1.82	11.32	13.7	13.4 ^{6}	-2.04	11.51	?	
8		10.3		1.62	11.92	?	?				
9		10.3		1.62	11.92						
10		11.4		1.50	12.90						
11		10.7		1.53	12.23						
12		11.2		1.50	12.70						
13		11.3		1.50	12.80						
14		11.5		1.50	13.00						
15		11.4	11.5 11.45	1.50	12.95						
16		tfp.	11.9	1.50	13.40						
17		12.4	tfp.	1.52	13.92						
18		12.8	12.8 12.80	1.57	14.37						
19		12.9	12.9 12.90	1.59	14.49						
20		13.9	14.0 13.95								

Ch. F. C.

measured out of order by mistake.

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Card.

Scale R Series 413 Corfield.

Mc 7/3665 Carte ~~0 0 +65~~ 23 -16.5

Diffr Inm. Att.-29 Sc.

	sc.1	sc.2	sc.3	Cm.	Magn	g sc.2	h sc.3			sc.2	Cm.	Magn
1.	B 6.2			.	.	9.2	9.3	9.25	0i -1.74	7.51	9.6 -1.94	7.66
2.	5.9 6.9			2.78	8.98	t.f.	t.f.	.	.		t.f. .	.
3.	6.6 7.4			2.61	9.51	t.f.	11.6	-2.11	9.49		t.f. .	.
4	1.1 7.7			2.44	9.84	t.f.	t.f.	.	.		12.4 phon -2.30	10.10
5	1.4 7.8			2.34	10.04	12.3	12.4	12.35	L0 -2.12	10.23	t.f. .	.
6.	1.5 6.4	t.f.		2.30	10.10	12.4	t.f.		-2.12	10.28	12.6 -2.33	10.27
7	8.1	8.4	8.40 0 0	2.11	10.51	t.f.	t.f.	.	.		t.f. .	.
8		t.f.		.	.							
9	8.5 8.8	9.1	8.95 2 1	1.98	10.93							
10		9.5		1.82	11.32							
11		9.1		1.76	11.46							
12		9.1		1.76	11.46							
13		10.4		1.60	12.00							
14		10.5		1.58	12.08							
15		10.1	10.1	10.70 0 0 1.54	12.24							
16		def.	def.	.	.							
17		11.1	11.2	11.15 1 0 1.50	12.65							
18		11.4	11.4	11.40 0 0 1.50	12.90							
19		11.1	11.1	11.70 0 0 1.50	13.20							
20		13.1	12.9	13.00 1 1 1.61	14.61							

Ch. F.C.

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Scale R- Series 413- Plot, Sheet No. 222.

9- Mc1367 Pole.

	sc.1	sc.2	Diff.	~~Diff~~ P.C. sc.1	sc.2	Diff.
5				8.2 1.9 8.9		-1.71
6				8.6		-1.79
8					10.4	-2.17
9	6.0				10.9	-2.07
10	5.9 6.8		3.02		11.2	-2.18
11	6.5 7.1		2.75		11.7	-2.15
12	7.4		2.16		12.2	-2.34
13	8.0 1.7 8.7	B.	2.30		12.6	-2.30
14	8.4	8.4	8.55 .1 .2 2.10		13.1	-2.45
15	9.0 8.1	9.1	9.05 .0 .1 2.03		13.4	-2.32
16		9.5	1.90		13.5	-2.10
17		def?			f.	
18		10.4	1.66			
19		10.1	1.72			
20		11.1	1.63			
23		11.8	.1 .0 1.54			
25		12.3 12.4	12.35 .0 .1 1.52			
26		12.8 13.7?	12.75 1.58			
27 not comp.		tr. ~~13.7~~ 13.8	.1 .0			
28		13.3 13.4	13.35 .0 .1 1.76			
29		14.0 13.9	13.95 1.71			ch. F.C.
30		f 2.				
31		m.s.				

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Scale R

Series 413-

Mc 7364 Pole Diff Im.

		ec.1 t.p.	ec.2	se	ec.1	ec.2	Diff
bright.	5	~~8.1~~ 8.86		1 1	7.9 16.? 8.4		-.141
	6	8.3	8.50	1 1	8.1		-.139
	8	10.4	10.30	1 1		10.2	-.207
	9	10.8	10.70	1 1		10.6	-.187
	10	11.2	11.20	0 0		11.2	-.218
	11	11.5	11.55	1 0		11.6	-.200
	12	12.1	12.00	1 1		11.9	-.214
	13	12.4	12.35	0 1		12.3	-.205
	14	12.9	12.85	1 0		12.8	-.220
	15	13.2	13.15	0 1		13.1	-.207
	16	13.4	13.40	0 0		13.4	-.200
	17	13.5	13.50	0 0		13.5	-.187
	18	14.0	13.90	1 1		13.8?	-.184
	19	↓				↓	

Ch. P. C.

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Scale R. Series 413 - Copiel.

Mc 1368 C1 1 + 15°

G.C. Alt. +17

	sc.1			Cu	Magn	sc.1 sc.2			
	1	B		.	.	8.8 8.5		-1.79	7.01
edge	2	B		.	.	. 8.9		.	.
	3	B		.	.	8.6		-1.80	7.10
	4	B.		.	.	9.8		-1.98	7.82
	5	B.		.	.	10.3		-2.05	8.25
	6	B 5.5		.	.	10.5		-2.08	8.42
red?	7	5.2		.	.	10.6		-2.09	8.51
	7a	B. 5.8		.	.	10.8		-2.12	8.68
	8	5.5		3.08	8.85	11.3		-2.18	9.12
	9	6.2 5.9		2.92	9.12	11.4		-2.20	9.20
dbl.	10	.		.	.	.		.	.
	11	6.5 6.2		2.83	9.33	11.7		-2.25	9.45
	12	6.9? 7.1		2.57	9.77	12.4		-2.33	10.07
	13	7.4 7.9		2.38	10.08	12.6		-2.34	10.26
	13a	7.6 7.9		2.31	10.21	12.9		-2.36	10.54
	14	7.6 8.9	B.	2.31	10.21	13.2		-2.35	10.85
	15	8.6 9.0	8.1	8.80 1 1	2.09 3	10.89 3		t.p.	.
	16	8.1 9.2	9.1	9.05 0 1	1.97	11.02		13.5 -2.25	11.25
	17	8.9	9.2	9.20 0 0	1.93	11.13		13.7?	.
	18		9.9		1.79	11.69		t.	.
	19		10.4		1.71	12.11			Chi. P.C.
	20		10.8		1.64	12.44			
	21		11.1		1.60	12.70			
	21a		11.5		1.58	13.08			
	22		11.7		1.55	13.25			
	23		11.8		1.54	13.34			

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Scale R

Series 413 - Leopold.

Mc 7368 C1 cont.

+17
Alt. -18

				Cw.	Magn
24	11.9			1.54	13.44
25	12.2			1.54	13.74
26	12.5	12.5	12.50 00	1.56	14.06
27	12.6	12.8	12.70 1 1	1.57	14.27
28	12.9?			1.60	14.50?
29	13.2	12.9?	13.05 2 1	1.62	14.67
30	13.4	13.5	13.45 0 1	1.70	15.15
31	13.8	13.7	13.75 0 1	1.75	15.50
32	14.	14.			

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Scale R

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Ma 1368 C1 Diffr. Images.

Alt. +17

	sc.1	sc.2	sc.1	sc.2	Cw.	Magn.
	8.7		8.7			
1	8.4	8.70	8.4		-.158	7.12
	8.7					
2	8.4		t.f.		-.158	7.12
	8.4					
3	8.1?		t.f.		-.151	6.89
Edge. 4	t.f.		t.f.		.	.
5		10.1		t.f.	-.195	8.15
6		10.1		t.f.	-.195	8.15
7		10.21		t.f.	-.198	8.22
7a		10.4		t.f.	-.200	8.40
8		10.6 10.65		10.7	-.206	8.59
9		11.21 11.00		10.8	-.208	8.92
10		dbl.		dbl.	.	.
11		11.6 11.60		11.6	-.210	9.50
12		12.2 12.15		12.1	-.210	10.05
13		12.3 12.20		12.1	-.210	10.10
13a		12.4 12.45		12.5	-.210	10.35
14		12.5 12.65		12.8	-.209	10.56
15		12.9 13.05		13.21	-.206	10.99
16		13.3 13.30		13.3	-.200	11.30
17		13.4 13.40		13.4	-.196	11.44
18		13.7 13.75		13.8	-.184	11.91
19		13.8		f	-.181	11.99
20		f.		n.s.	.	.
21						

Eh. F.C.

In 9 "h" images from. - appear hazy on one side

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Scale R Series 413 - Effect.

* Mc 7369 D1 - 1 - 15°

P.C. Alt. -18

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	Cw.	Magn
1						B.		.	.
2						9.5		-1.91	7.59
3						10.1		-2.02	8.08
4	B			.		10.3		-2.05	8.25
5	B			.		10.3		-2.05	8.25
6	B			.		10.6		-2.10	8.50
7	B			.		10.7		-2.10	8.60
8	B.			.		t.f.		.	.
9	5.9			3.05	8.95	11.2		-2.18	9.02
10	B.			.	.	11.2		-2.18	9.02
11	7.5 7.1 1.2?			2.45	9.95?	t.f.		.	.
12	6.8 7.6			2.61	9.71	t.f.		.	.
13	7.6 1.3			2.41	10.01	t.f.		.	.
14	def. 7.5			.	.	12.5		-2.34	10.16
15	7.9 1.5			2.33	10.13	12.6	?	-2.35	10.25?
16	8.5 1.6	B.		2.31	10.21	12.7		-2.35	10.35
17	8.5	8.6	8.70 1.1	2.06	10.76	t.f.		.	.
18		9.7		1.89	11.29	t.		.	.
19		9.5		1.86	11.36				
20		t.f.		.	.				
21		9.7		1.82	11.52	t.f.			leh. F.C.
22		10.1		1.75	11.85				
23		10.3		1.72	12.02				
24		10.4		1.70	12.10				
25		10.6		1.68	12.28				
26		10.6		1.68	12.28				

Images poor, ~~except~~ especially faint stars, which are much elongated.

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Mc 7369 cont. D1

Alt. -18

	pc 2			Cu.	Magn
27	10.9			1.63	12.53
28	11.5			1.58	13.08
29	11.5			1.58	13.08
30	11.7	11.6	11.65 1 0	1.56	13.21
31	t.p.	11.7?		1.55	13.25?
32	12.3	12.4	12.35 1 0	1.54	13.89
33	12.4	12.6	12.50 1 1	1.56	14.06
34	12.4?	t.p.		1.55	13.95?
35	t.p.	t.p.		.	.
36	12.8?	12.6	12.70 1 1	1.58	14.28?
37	13.5	13.5	13.50 0 0	1.70	15.20
38	t.p.	t.p.		.	.
39	13.8	13.8	13.80 0 0	1.76	15.56
40	t.	p.		.	.

Eh. P. C.

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Mc 13 69 Court. D1 Diffr. Im.

Att. -18

	g sc.1	g sc.2	h sc.1	h sc.2	Cw.	Magn
Edge 1	t.fr.		t.fr.		.	.
2	8.5		t.fr.		-1.60	7.20
3	8.9 9.2	9.3 9.25 0 1	t.fr.		-1.73	7.52
4	t.fr.		t.fr.		.	.
5	9.6	9.55 0 1		9.5	-1.81	7.74
6	9.8	9.70 1 1		9.6	-1.86	7.84
7	t.fr.		t.fr.		.	.
8	10.4		t.fr.		-2.00	8.40
9	10.1	10.65 1 0		10.6	-2.05	8.60
10	10.1	10.75 1 0		10.8	-2.07	8.68
11	11.3		t.fr.		-2.09	9.21
12	11.6	11.50 1 1		11.4	-2.10	9.40
13	11.5	11.55 1 0		11.6? hook	-2.10	9.45
14	t.fr.		t.fr.		.	.
15	12.1	12.20 1 1		12.3	-2.10	10.10
16	t.fr.		t.fr.		.	.
17	12.8		t.fr.		-2.08	10.72
18	13.4		t.fr.		-1.97	11.43
19	13.4?		t.fr.		-1.97	11.43?
20	13.4	13.40 0 0		13.4	-1.97	11.43
21	t.fr.		t.fr.		.	.
22	t.		t.		.	.

Ch. P.C.

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Card

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Mc 7370 Carte 1 + 55°

Diff. Inm. Alt. +22 P.C.

	sc.1	sc.2			sc.1	sc.1				sc.1		
1	B		.	.	11.4	7.2	7.60	0 0	-1.40	6.20	11.4	. .
2	B		.	.	9.6	t.p.			-1.84	7.76	10.21	-2.04 8.16
3	1*		2.45	9.92	11.7	11.7	11.70 00		-2.10	9.60	12.1	-2.29 9.81
4	13	B.	2.41	10.01	11.7	11.7	11.70 00		-2.10	9.60	12.3	-2.32 10.08
5	8.6	8.1	8.80 1 1	2.03	10.83	12.8	12.8	12.80 00	-2.08	10.72	13.4	-2.31 11.09
6		9.9		1.78	11.68	t.p.	13.7		-1.85	11.85	N.S.	. .
7		10.4		1.71	12.11	n.s.	n.s.		.	.		
8		11.3		1.59	12.89							
9		11.4		1.58	12.98							
10		11.7		1.56	13.26							
11		12.2		1.54	13.74							
12		12.2		1.54	13.74							
13		12.5		1.56	14.06							
14		12.4		1.55	13.95							
15		t.p.	12.9 12.90	1.60	13.50							
16		12.9	12.9	1.60	13.50							
17		13.3	13.3 13.30 00	1.67	14.97							
18		13.4	13.4 13.40 10	1.69	15.09							
19		13.9	13.8 13.85	1.77	15.62							
20		~~13.9~~ t.		.	.							
21												
22												

Star 14 appears slightly brighter than 15.

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Card

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Scale R. Series 413-

Mc 13 1 B1 1 20 + 45°

P.C. Alt. +23

	sc.1			Cu.		sc.1 sc.2		
1						10.21	-2.03	8.17
2						t.p.	.	.
3	B.			.		10.4	-2.07	8.33
4	B			.		11.3	-2.18	9.12
5	B. 6.5			.		11.4	-2.20	9.20
6	6.2 7.4			283	9.33	11.6	-2.24	9.36
7	7.1 7.1			249	9.89	12.3	-2.32	9.98
8	6.8 7.6			2.61	9.71	12.1	-2.30	9.80
8a	7.3			2.41	10.01	12.4	-2.32	10.08
9	7.8			2.33	10.13	12.5	-2.33	10.17
10	8.5 7.6			2.02	10.82	13.1	-2.36	10.74
11	7.5 7.9			2.33	10.13	12.6	-2.34	10.26
12	7.6 8.2	B.		2.31	10.21	12.7	-2.35	10.35
13	7.9 8.9	8.2	820 00	2.21	10.41	13.1	-2.36	10.74
14	8.6	8.9	890 00	2.00	10.90	13.3	-2.34	10.96
15	8.9 9.2	9.3	925 01	1.92	11.17	t.	.	.
16		10.3		1.72	12.02	ns.	.	.
17		10.1		1.75	11.85			
18		10.1		1.75	11.85			
19		10.6		1.68	12.28			
20		10.6		1.68	12.28			
21		10.6		1.68	12.28			
22		11.2		1.60	12.80			
23		11.2		1.60	12.80			
23a ~~24~~		11.5		1.58	13.08			
24 ~~25~~		11.8		1.55	13.35			
25 ~~26~~		12.4		1.55	13.95			

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Tuesday November 2, 1915.

Scale R

Series 413-

Mc 1377 ... ⊙1 cont 1 20 +45°

Alt. +23

	sec			Cw.	Magn
25	12.4	12.5	12.45 0 1	1.55	14.00
		?	13.15 1 0		
27	13.1	13.2	not comp.	1.64	14.79
28	13.21	13.21	13.20 0 0	1.65	14.85
26a	12.8	12.6	12.70 1 1	1.58	14.28
26b	12.6	12.7	12.65 0 1	1.56	14.21
29	13.4	13.4	13.40 0 0	1.69	15.09
30	13.7	13.7	13.70 0 0	1.74	15.44
31	7	7.		.	.
32	n.s.			.	.

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Scale R. Series 413 - Copied

Mc 7371 B1 Diffr. Im.

Alt. +23

		g sc.1	g sc.2	h sc.1	h sc.2	Cw.	Magn
	1	10.4	10.45 0'		10.5 hour	-2.01	8.44
edge.	2	t.f.			.	.	.
"	3	t.f.			.	.	.
	4	t.f.			.	.	.
	5	11.1	11.15 1 0		11.2 hour	-2.09	9.11
	6	11.4	11.45 0 1		11.5	-2.10	9.35
	7	12.1	12.10 0 0		12.1	-2.10	10.00
	8	11.7			t.f.	-2.10	9.60
	8a	12.3	12.30 0 0		12.3	-2.10	10.20
	9	12.3	12.30 0 0		12.3	-2.10	10.20
	10	12.7	12.70 0 0		12.7	-2.09	10.61
	11	12.5	12.50 0 0		12.5	-2.10	10.40
	12	12.5	12.45 1 0		12.4	-2.10	10.35
	13	12.8	12.80 0 0		12.8	-2.08	10.72
	14	13.4	13.40 0 0		13.4	-1.97	11.43
	15	13.4	13.40 0 0		13.4	-1.97	11.43
	16	f.			f.	.	.
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	23a						

11:40

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Wednesday, November 3, 1915

Scale B 1:30. Series 498 Plot, Sheet No. 223.

Mc8643 Pole. YELLOW

Mc8648 PC. Mc8648

	Diff.			sc.1	sc.2		sc.1	sc.2		sc.2	sc.2	sc.2	sc.2	
										11.75 L 0		11.70 0 0		
5				B. .55			B .51			11.7	11.8	11.7	11.7	11.72 03 02 – 529
6	5.30	2	2	5.2 7.7			4.8 7.0		5.30 22 1.68	12.6	12.7	12.7	12.8	12.70 05 05 – 572
8	7.35	3	4	7.4 8.8	B.		6.4 8.5		7.35 34 0.68	f.	f.	f.	f.	
9	8.55	10	10	8.5 9.1	8.5	8.65 2 1	8.2 8.9	8.4	8.45 1 0 0.29	n.s.		f.	n.s.	
10	9.08	02	03	8.8	9.1	9.10 0 0	8.6	9.2	9.05 L2 -017	~~12.1~~	w.s.	n.s.		
11	10.18	08	07		10.1			10.3	10.2 10.25 1 0 – 091					
12	10.48	12	13		10.6			10.3	10.4 10.35 L 0 – 077					
13	11.45	15	15		11.3			11.6	11.6 11.60 0 0 – 152					
14	11.60	10	10		11.5	11.5	11.50 0 0	11.7	11.7 11.70 0 0 – 146					
15	12.30	10	10		12.2	12.2	12.20 0 0	12.4	12.4 12.40 0 0 – 176					
16	13.08	28	27		12.8	12.8	12.80 0 0	13.4	13.3 13.35 0 1 – 241					
17	12.90	2	1		12.9	12.9	12.90 0 0	~~12.4~~	f. f.					
18	13.65	05	05		13.1	13.5	13.60 1 1	13.7	13.7 13.70 0 0					
19					f.	f.		f	f.					
20					w.s.			w.s.						
23														
25														
26														

Ch. P.C.

3.04–

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Wednesday November 3, 1915

Scale 8" : 1

Series 498

MC 8643 Pole : Diffr. Im. YELLOW

	sc.1	sc.2		sc.1	sc.2	
5	11.5	11.55	1.0	11.6		-.512 ~~11.58~~
6	12.5	12.35	1.½	12.2		-.537
8	t.f.			t.		
9						
10						
11						
12						
13						

Ch. P.C.

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Wednesday November 9, 1915 –

Cards.

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Scale B

Series 498 – Alt – 12

Mc 8644. 109 – 17 – 15° YELLOW

	sc.1			Cu.	Magn.	P.C. pos	Cu.	
1	B.			.	.	12.5	-.565	6.85
2	B			.	.	13.1?	-.587	7.23?
3	B.			.	.	t.fr.	.	.
4	B			.	.	t.fr.	.	.
5	6.8 6.5			0.98	7.78	t.fr.	.	.
6	7.9 1/6	B.		0.45	8.35	t.	.	.
7	8.5 8.2	8.4	8.45 1 0	0.19	8.64	t.	.	.
8	B	B.		.	.	12.6?	-.570	6.90?
9	B.	B		.	.	t.fr.	.	.
10		9.2		-.025	8.95			
11		9.6		-.048	9.12			
12		10.3		-.084	9.46			
13	8.8 8.5	8.8	8.80 0 0	-.002	8.78			
14		10.3		-.084	9.46			
15		10.2		-.079	9.41			
16		11.1		-.118	9.92			
17	8.5 8.2	8.2	8.35 1 2	+0.22 -.078	8.57 ~~7.57~~			
18		10.9		-.110	9.80			
19		11.3		-.126	10.04			
20		12.2		-.163	10.57			
21		11.7		-.143	10.27			
22		10.55 1 0 10.5	10.6	-.096	9.59			
23		11.80 0 0 11.8	11.8	-.148	10.32			
24		12.35 1 0 12.3	12.4	-.169	10.66			
25		12.10 0 0 12.1	12.1	-.159	10.51			
26		13.25 2 1 13.4	13.1	-.202	11.23			

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Wednesday November 3, 1915

Scale R

Series 498.

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MC 8644 09 17 – 15° YELLOW

	sc2	sc2		Cw.	Magn
27	12.4	12.2	12.30 / 1	-1.67	10.63
28	↓	↓		.	.
30 ~~29~~	t.f.	t.f.		.	.
29 ~~30~~	13.4?	t.f.	poor	-2.08	11.32?
31	n.s.			.	.
32	n.s.			.	.

Diffr. Inn.

	sc1	sc2		sc1	sc2		
	9			tv			
1		t.f.		12.2		-5.30	6.90
edge 2	t.f.					.	.
3		t.f.		t.f.		.	.
4		12.4	12.40 00	12.4		-5.38	7.02
5		t.f.		t.f.		.	
6		t.f.		t.f.		.	
7		↓		↓		.	
edge 8	.			.		.	
9		t.f.		12.4		-5.38	7.02
10							
11							

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1915phae.proj.10700

Wednesday November 3, 1915

Scale R Series 498- Alt. +02 Spied

MV 8645 Near Scut Sot 17 00 00 YELLOW

D.C.

	sc 1		Cm.	Magn	sc 1	sc 2	sc 2		Cm	Magn
1	B		.			10.4	10.4	10.40 00	.	.
2	B		.			10.7	10.8	10.75 1.0	.	.
2a	B.		.			11.9	11.9	11.90 00	-5.39	6.51
3	B.		.			12.6?	12.7	12.65? 0.1	-5.71	6.94?
4	8.0 7.7	B	0.39	8.39		1.	2		.	.
5	7.8 7.5	B.	0.49	8.29						
6	9.9		-0.64	9.26						
7	10.3		-0.84	9.46						
8	11.2		-1.22	9.98						
9	11.4		-1.31	10.09						
10	11.6		-1.39	10.21						
11	10.6		-0.98	9.62						
12	12.70 0 0 12.1	12.7	-1.82	10.88						
12a	12.30? 12.2	12.4?	-1.67	10.63?						
13	12.40 0 0 12.4	12.4	-1.71	10.69						
14	1.	2	.	.						
14a	13.40 0 0 13.4	13.4	-2.08	11.32						
14b	13.40 0 0 13.4	13.4	-2.08	11.32						
15	1	n.s.	.	.						
16	1.		.	.						
16a	1		.	.						
17	1		.	.						
17a	n.s.		.	.						
17b	n.s.		.	.						
17c	1		.	.						

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Scale R

Series 498.

Alt +08

Mc8646 C9 17 + 15° YELLOW

G.C.

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc.2		Cw.	Magn
1	B.			.	.	12.8	12.9	12.85	01	-.578	7.07
2	B.			.	.	12.3	12.3	12.30	00	-.557	6.73
3	B.			.	.	11.7	11.8	11.75	10	-.532	6.43
3a	B.			.	.	12.9	12.1	12.80	11	-.578	7.02
4	B.			.	.	12.3	12.3	12.30	00	.557	6.73
5	6.4 6.1			.119	7.59	13.5?	13.5?	13.50?	00	.	.
6	7.0 6.1			0.88	7.88	t.f.				.	.
6a	6.9 6.6			0.94	7.84	13.7?				.	.
7	6.7 6.4	B.		1.03	7.73	13.4				.	.
8	8.2 7.9	8.0	8.10	11	0.35	8.45	f.			.	.
8a		9.3			-0.30	9.00					
9		10.4			-0.89	9.51					
10		11.3			-1.27	10.03					
11	8.8 8.5	8.8	8.80	00	-.002	8.78					
12		10.21			-0.79	9.41					
13		10.5	10.4	10.45	10 -0.90	9.55					
14		11.4	11.1	11.55	21 -1.36	10.19					
15		11.4	11.3	11.35	01 -1.29	10.06					
16		12.9	12.9	12.90	00 -1.89	11.01					
17		t.f.	t.f.		.	.					
18		13.7	13.9	13.80	11 -2.20	11.60					
19		f.	f.		.	.					
20		t.f.			.	.					
21											
22		n.s.			.	.					
23											

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Wednesday November 3, 1915.

Scale R

Series 498.

Mc 8641 N.G.C. 6633 18 23+6.5 YELLOW

D.C.

	Sc.1	Sc.2		Cw.	Magn	Sc.1	Sc.2
1	6.9 7.4			0.80	8.00	½	
2	7.1 7.2			0.70	8.10	½	
3	6.9			0.80	8.00	½	
4	9.5			-042	9.08		
5	10.6	10.6	10.60	-098	9.62		
6	11.2	11.3	11.25	-124	10.01		
7	12.2	12.1	12.18	-161	10.54		
8	11.8	11.7	11.75	-144	10.31		
9	13.4	13.4	13.40	-208	11.32		
10	½	½					
11	½						
12							
13							
14							
15							
16							
17							
18							
19							
20							

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N.B

Series 350 -

Miss Leavitt to examine measures of Pole plates before reduction is carried on.

H.S.L. Nov. 2, 1915 -

see also P. 127 -

Pole Plates satisfactory

Complete reduction

Scale R

2 - Mc 6615

Sheet No. 226.

	sc. 1	sc 2				Diff
5						
6						
8						
9	6.7					
10	6.4					
11	7.5 1.2 8.0					
12	7.1	B.				
13	8.3 8.6	8.4	w.s.	8.50		
14	8.8 9.1	8.6		8.85		
15	9.5					
16	9.8					
17	10.2					
18	10.1					
	11.10	0 0				
19	11.1	11.1				
	11.40	1 1				
20	11.5	11.3				
	12.00	2 2				
23	12.2	11.8				
	12.60	0 0	12.6			
25	12.6	11.8		12.40	0 0	
				12.4	12.4	12.50 1 0 1 0 1.37
	12.80	0 0		12.55	1 0	
26	12.8	12.6 8		12.5	12.6	12.68 1 2 1 3 1.65
	13.35	1 0		13.35	0 1	
27	13.3	13.4		13.4	13.3	13.35 0 0 0 0 1.34
				13.80	1 1	
28	t.p.	t.p.		13.9	13.7	13.80 . 0 1.31
29	↓	↓		↓	↓	
30						

Ch. P.C.

rather dark - raining, all day -

3:50

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Friday November 5, 1915

Scale R

2 — mc 6615 Series ~~495~~ - 350 Plot, Sheet No. 226.

mc6620 Pole -

	sc.1	sc.2		sc.1	sc.2			Dc.				sc.1	sc.2	sc.2	Diff
5								8.7 8.4	8.60	1 1	8.5	9.1 8.8	9.15 1 0	9.2	888 28 27 -239
6											9.4	9.3	9.35 0 1	9.7? now	952 17 18 -241
8											10.8	10.9	1085 0 1	11.25 1 0 11.3	11.2 1105 20 20 -282
9	6.7		6.8				Diff				11.6 10.8	11.4	11.50 1 1	11.70 0 0 11.7	11.7 1160 10 10 -277
10	6.4 7.5		6.5 7.5			6.75	1 0	2.27			11.7	11.6	11.65 1 0	11.95 2 1 11.8	12.1 1180 15 15 -278
11	7.2 8.0		7.2 8.0			7.50	0 0	2.05			12.4			12.3	1235 0 1 -280
12	7.1 8.6	B.	7.1 8.5	B.		8.00	0 0	1.86			12.1			12.4	1255 1 2 -269
13	8.3 9.1	8.2 w.s.	8.50 1 1	8.2	8.3	8.40 1 1	8.45 05 05	1.85			13.3			13.5	1340 1 1 -310
14	8.8	8.6	8.85 3 2	def.		8.85	2 1	1.80			13.1			↓	" "
15	9.5			9.4		9.45	1 0	1.63			13.8 now			↓	" "
16	9.8			9.8		9.80	0 0	1.60			pup.			↓	" "
17	10.2			9.9		10.05	2 1	1.58							
18	10.7 11.10	0 0		10.7		10.70	0 0	1.36							
19	11.1 11.40	1 1	11.1	11.2		11.15	05 05	1.27							
20	11.5 12.00	2 2	11.3	11.3 11.80	0 0	11.35	05 05	1.38							
23	12.2 12.60	0 0	11.8 12.6	11.8 12.40	0 0	11.90	10 10	1.44							
25	12.6 12.80	0 0	11.8	12.4 12.55	1 0	12.50	10 10	1.37							
26	12.8 13.35	1 0	12.6 8	12.5 13.35	0 1	12.68	12 13	1.65							
27	13.3	13.4		13.4 13.80	1 1	13.35	00 00	1.34							
28	t.p.	t.p.		13.9	13.7	13.80	a	1.31							
29	↓	↓		↓	↓	"	"							Ch. P.C.	
30															

rather dark - raining all day -

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Friday, November 5, 1915

Scale R Series 350 Copied.

MC 6616 Carte 2 21 +65° Alt +17

O.C.

	sc.1	sc.2			Cw.	Magn.	sc.1	sc.2	sc.?		Cw	Magn.
1	B.				.	.	def.	def.			.	.
2	B				.	.	11.6	11.5	11.55	0 1	-2.80	8.75
3	7.1	B.			.	.	12.5	12.3	12.40	1 1	-2.90	9.50
4	7.8	8.1	8.10	0 0	1.88	9.98	13.21	13.21	13.20	0 0	-2.99	10.21
5	8.4	8.5	8.60	1 1	1.77	10.37	~~13.3~~ def. in glass.				.	.
6		9.5			1.61	11.11						
7		10.3			1.49	11.79						
8		10.4			1.48	11.88						
9		10.7			1.46	12.16						
10		10.7			1.46	12.16						
11		11.2			1.42	12.62						
12		11.3			1.41	12.71						
13		11.9			1.38	13.28						
14		def.			.	.						
15		12.4	12.3	12.35	1.36	13.71						
16		12.7	12.8	12.75	1.34	14.09						
17		12.9	12.8	12.85	1.34	14.19						
18		13.3	13.3	13.30	1.34	14.64						
19		13.6?	13.4?	13.50?	1.32	14.82?						
20		f.	f.		.	.						

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Mc6617 B9 22 40 +45 Alt +22

P.C.

	sc.1	sc.2				sc.1	sc.2	sc.2	Cw.	Magn.
1	B					8.6	8.85	8.8	-2.36	6.49
2	B					9.4	9.4	940 0 0	-2.44	6.96
3	B.					9.3	9.3	930 0 0	-2.42	6.88
4	B.					9.4	9.4	940 0 0	-2.44	6.96
5	B.					10.1	10.1	1010 0 0	-2.57	7.53
6	B					10.3	10.3	1030 0 0	-2.60	7.70
7	B					10.6			-2.66	7.94
8	B.					10.6			-2.66	7.94
9	B.					10.7			-2.67	8.03
10	B					11.3			-2.75	8.55
11	dbl.					dbl.				
12	~~B~~ 6.4 6.1					~~def.~~ 11.6 ~~12.6~~			-2.80	8.80
13	6.6 6.3					12.1			-2.86	9.24
14	6.9 6.6					12.3			-2.89	9.41
15	7.6 7.3					12.4			-2.90	9.50
16	7.5 7.2					12.3			-2.89	9.41
17	7.7 7.4 B.					12.6			-2.92	9.68
18	8.1 7.8	8.1	8.10 0 0	1.88	9.98	t.p.				
19	8.4 8.1	8.2	8.30 1 1	1.84	10.14	13.3			-3.00	10.00
20	8.7 8.4	8.4	8.55 1 2	1.79	10.34	13.5			-3.02	10.48
21	9.0 8.7	9.1	9.05 0 1	1.70	10.75	13.7				
22	9.0 8.7	9.2	9.10 1 1	1.69	10.79	t.				
23		9.7		1.58	11.28					
24		10.3		1.49	11.79					
25		10.5		1.48	11.98					
26		10.7		1.46	12.16					
27		10.7		1.46	12.16					

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Friday November 5, 1915 –

Seeliger

Series 350.

Mc6617 B9 cont

	Rec.	Rec.				Cw.	Magn
28	11.4	11.4	11.40	0	0	141	12.81
29	11.3	11.2	11.25	1	0	142	12.67
30	11.8	11.7	11.75	0	1	140	13.15
30a	12.2	12.2	12.20	0	0	136	13.56
31	12.2	12.2	12.20	0	0	136	13.56
32	12.4	12.4	12.40	0	0	136	13.76
33	12.9	12.7	12.80	1	1	134	14.14
34	13.4	13.4	13.40	0	0	132	14.72
35	t.f.	t.f.				.	.
36	13.6?	f?				131	14.91?
37	f.					.	.
38							

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Friday November 5, 1915

Scale R. Series 950. Copied.

Mc 6618 D12 23 0 -150 Alt - 24

D.C.

	sc.1	sc.2	Cw.		sc.1	sc.2	sc.?		Cw.	Magn
1	B.		.		11.1	11.1	11.10	0 0	-.272	8.38
2					10.5	10.5	10.50	0 0	-.263	7.87
3	B.		.		11.3	11.6?	11.45?	1 2	-.279	8.66?
4	B.		.		t.p.	t.p.			.	.
5	6.4 6.1		.		11.5	11.4	11.45	1 0	-.279	8.66
6	7.0 6.4		.		12.4				-.290	9.50
7	7.7 6.9		.		12.4? poor				-.290	9.50?
8	7.5 7.2		.		12.45				-.290	9.60
9	7.6 7.3		.		t.p.				.	.
10	7.7 7.4		.		t.p.				.	.
11	8.1 7.8		1.88	9.98	13.3				-.300	10.30
12	7.9 7.6		1.92	9.82	t.p.				.	.
13	8.1 7.8	B.	1.88	9.98	t.p.				.	.
14	8.7 8.4	8.6	8.65 1 0	1.76	10.49	t.p.			.	.
15	8.7 8.4	8.6	8.65 1 0	1.76	10.41	t.			.	.
16	8.9 8.6	8.9	8.90 0 0	1.72	10.62					
16a		9.7		1.58	11.28					
17		10.4		1.48	11.88					
18		10.2		1.50	11.70					
19		10.2		1.50	11.70					
20		10.4		1.48	11.88					
21		10.6		1.46	12.06					
22		11.2	11.1	0 1 11.15	1.42	12.57				
23		11.2	11.4	1 1 11.30	1.41	12.71				
24		11.2			1.42	12.62				
25		11.5			1.40	12.90				

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MC 6618 D12 23 -15°

	Descr.				Cw.	Magn
26	11.1				1.40	13.10
27	def.				.	.
27a	12.3 def. w.s.				1.36	13.66
28	12.2?				1.36	13.56?
29	12.4	12.4	12.40	0 0	1.36	13.76
30	13.1	12.9	12.95	2 2	1.34	14.24
31	12.9	13.1	13.00	1 1	1.34	14.34
32	13.2	13.3	13.25	0 1	1.34	14.59
33	t.p.	.			.	.
34	13.5				1.33	14.83
35	f.	f.			.	.
36						
37	n.s.				.	
38	n.s				.	

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Saturday November 6, 1915

Scale R — Series 350. — Plot, Sheet No. 227

10 20

Mc 66 20 — Pole.

	Mc 66 26 sc.1	Mc 66 26 sc.2	P.C. sc.1	P.C. sc.2	P.C. sc.2	66 26 sc.1	66 26 sc.2	Diff
5				9.0 8.7 8.90 1 2 88			8.6 8.90 a= ← Early Sep.	-.241 -2.11
6				def. 11.30 1 1	def	8.9	9.3 8.90 a=	-.179 -2.19
8				11.21 11.4		10.5	10.90 4 0 4 0	-.267
9			Diff	11.70 0 0 11.7 11.7 12.00 2 2		11.2	11.45 2 5 2 5	-.262
10	6.5 6.3	6.4 6.1	6.50 1 1	2.52	11.8 12.2	def. ~~11.2~~	11.6 12.00 a=	-.298 -2.58
11	7.6 7.3	6.6 6.3	7.10 5 5	2.45	12.5 from	11.7	12.10 4 4	-.255
12	7.9 7.6 B.	7.4 7.1 B.	7.65 3 2	2.21	12.6 from	12.2	12.40 2 2	-.254
13	8.6 8.4 8.2	8.40 2 2	7.8 8.1	8.10 0 0	8.25 15 15	2.05 13.2?	12.6	12.90 3 3 -.260
14	Sov. t.p. (Sov.)		8.4 8.1 8.4	8.40 0 0	8.40 a=	2.25 13.8	12.8	13.30 5 5 -.265
15	9.4		9.1 8.8 9.1	9.10 0 0	9.25 15 15	1.83	t.p.	
16	10.1		9.3		9.70 4 4	1.70		205-205 6 +34 -34
17	10.2		9.7		9.95 2 3	1.68		
18	10.8		10.5		10.65 2 1	1.41		
19	11.2		10.7		10.95 2 3	1.47		
20	11.4		11.1		11.25 2 1	1.48		
23	11.80 1 1 11.7 11.9		11.80 1 1 11.9 11.7		11.80 0 0 0 0	1.54		
25	12.40 1 1 12.3 12.5		12.20 0 0 12.2 12.2		12.30 10 10	1.57		
26	12.65 0 1 12.6 12.7		t.p. def?		12.65 a=	1.68		
27	13.30 1 1 13.4 13.2		12.85 0 1 12.8 12.9		13.08 22 23	1.61		
28	13.70? 0 0 13.7 13.7?		13.20 0 0 13.2 13.2		13.45? 25 25	1.66		
29	t. t.		13.50 0 0 13.5 13.5		13.50 a=	2.16	Chi P.C.	
30			t.p. t.p.					
31								

12:12

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Saturday November 6-1915

Scale R

Series 850 – Copied 9a:138

mc 6621 Clust. Pers. 2 14 +56.7 Alt. corr. +21

BC.

	sc.1	sc.2	Cm.	Magn.	sc.1	sc.2		
1	B.		.		7.9 7.6	8.1 8.00 11	.	.
1a	B.		.		sup.	.	.	.
2	B.		.		8.7	8.1 8.70 00	-192	6.78
3	B		.		9.55 1.0	9.5 9.6	-221	7.34
4	B.		.		10.15 0 1	10.2 10.1	-240	7.75
5	B		.		11.00 1 1	11.1 10.9	-260	8.40
5a	66		.			11.6	-266	8.94
6	6.3		2.56	8.88		11.5	-265	8.85
6a	6.7 poor		2.54	8.94		12.1	-265	9.45
7	t.p.	.	.			12.2	-264	9.56
7a	t.p.	.	.			t.p.	.	.
8	t.p.	.	.			12.6	-262	9.98
9	t.p.	.	.			12.7	-261	10.09
9a	t.p.	.	.			t.p.	.	.
10		t.p.	.					
11		t.p.	.					
12		9.3?	1.81	11.11				
12a		9.4	1.78	11.18				
13		10.2	1.62	11.82				
14		10.7	1.54	12.24				
15		11.3	1.50	12.80				
16		11.7	1.50	13.20				
17		11.7	1.50	13.20				
17a		12.2	1.54	13.74				
17b		12.7	~~1.61~~	~~14.31~~ Rej.				
18		12.7	1.61	14.31				
18a		?.?	.	.				

Remeas. Nov. 2, 1917

12.1 12.0 11.9 12.5

New & 2nd exposure marked 18a. Leaf end of H.S.C.

12.7 certainly wrong.

Images are much elongated, appear like two opps superposed one on one another.

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Saturday November 6. 1915

Scale R

Series 350

Mc6621 Clus. Pers. cont.

		Dec +	Cu.	Magn
	18b	12.1	160	14.30
	18c	13.3	180	15.10
*	19	12.9	165	14.55
	20	12.8	164	14.44
	21	13.1?	.	.
	22	?.	.	.
	23			
	24			

* Difficult to identify ft stars, identified from ✕ plate. no marked chart

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Saturday November 6, 1915

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Mc 6 6 2 2 C 2 3 + 15

Dec. Alt +17

	sc 1	sc 2		Cw.	Magn	sc 1	sc 2	sc 3	Cw.	Magn	Revised
1	B			.		88 5 / 8.8	88 00	8.8	-1.96	-2.15 6.84	6.65
2	B			.		90 / 8.7	9.00 00	9.0	-2.04	-2.20 6.96	6.80
3	B			.		9.5	945 10	9.4	-2.18	-2.30 7.27	7.15
4	B			.		10.2	10.20 00	10.2	-2.41	-2.45 7.79	7.75
5	B			.		10.2	10.20 00	10.2	-2.41	-2.45 7.79	7.75
6	B			.		10.5	1050 00	10.5	-2.50	-2.52 8.00	7.98
7	62 / 5.9			.		10.1			-2.55	-2.55 8.15	8.15
8	64 / 6.1			2.54	8.94	11.3			-2.63	-2.60 8.67	8.70
9	62 / 5.9			.		11.2			-2.62	-2.60 8.58	8.60
10	67 / 6.4			49 / 2.54	9.19 / 8.94	11.4			-2.64	-2.60 8.76	8.80
11	71 / 6.8			39 / 2.46	49 / 9.26	11.1			-2.66	-2.60 9.04	9.10
12	7.7 / 7.4			2 / 2.34	9.94	tf.			.	.	
12a	8.1 / 7.8			1 / 2.22	10.22 / 10.01	12.1			-2.61	-2.60 10.09	10.10
13	8.1 / 7.8	B.		1 / 2.22	10.22 / 10.01	tf.			.	.	
14	8.6 / 8.3	8.5	8.55 0 1	200 / 1.98	5 / 10.58	13.1			-2.59	-2.60 10.51	10.50
15	87 / 8.4	8.6	8.65 10	1.96	10.61	13.2			-2.58	-2.60 10.62	10.60
16	91 / 8.8	9.0	9.05 10	1.86	10.91	13.4			-2.56	-2.60 10.84	10.80
17		9.5		1.75	11.25	13.6			.	.	
18		9.5		1.75	11.25	1/5			.	.	
19		9.8		1.68	11.48						
20		10.4		1.59	11.99						
21		10.4		1.59	11.99						
22		10.1		1.54	12.24						
23		11.1		1.50	12.60						
24		11.25 1 0 / 11.3 11.2		1.50	12.75						
25		11.35 1 0 1 / 11.2 11.3		1.50	1285						

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Saturday November 6. 1915

Scale R Series 350.

mc66222 Cz.

	Sc. 21	Sc. 22			Cw.	Magn
26	12.1	12.2	12.15	± 0	1.53	13.68
27	12.21	12.2	12.20	0 0	1.54	13.74
28	12.5	12.5	12.50	0 0	1.57	14.07
29	12.6	12.7	12.65	0 1	1.60	14.25
30	13.21	13.21	13.20	0 0	1.76	14.96
31	13.4	13.4	13.40	0 0	1.88	15.28
32	〃	〃	〃	〃	〃	〃
33	13.4?	13.4?	13.40	0 0	1.88	15.28?
34	〃	〃	〃	〃	〃	〃

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Saturday November 6, 1915

Scale R.

Series 350 -

Mc66 23 For Color Index 3 01 +74°.

B.C.

	sc.1	sc.2		Cw.	Magn.	sc.1	sc.2	Cw	Magn
						11.15 0 1			
1	B.			.	.	11.2	11.1	-.263	8.52
	6.1					11.20 0 0			
2	5.8			.	.	11.2	11.2	-.263	8.57
	6.4					11.70 0 0			
3	6.1			.254	8.94	11.7	11.7	-.266	9.04
	7.5					12.15 1 0		-.265	
4	7.2			.230	9.80	12.1	12.2		9.50
	7.5					12.40 0 0			
5	7.2	B.		.230	9.80	12.4	12.4	-.263	9.77
	8.6								
6	8.3	8.4	8.50 1 1	.202	10.52	13.1		-.259	10.51
	8.9								
7	8.6	8.8	8.85 1 0	.191	10.76	t/p		.	.
8		9.6		.173	11.33	t.		.	.
9		10.7		.154	12.24				
10		11.3		.150	12.80				
11		11.6	11.7	11.65 0 1	.150	13.15			
12		11.8	11.9	11.85 0 1	.150	13.35			
13		12.3	12.3	12.30 0 0	.155	13.85			
14		12.7	12.7	12.70 0 0	.161	14.31			
15		13.1	13.2	13.15 1 0	.175	14.90			
16									

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Wednesday, November 10, 1915

Scale R Series 331- Plot, Sheet No. 226.

2:31 * Mc 6886 Pole -

6392?

	sc.1	sc.2	sc.2	sc.1	sc.2										Diff
								P.C.			6392				
								sc.1	sc.2	sc.2	sc.1	sc.2	sc.2		
5								8.2 1.9	B.		1.7 7.4	B.		7.95	2 3 -146
6								8.9 8.6	8.90 00	8.9	8.5 8.2	8.45 10	8.4	8.68	22 23 -157
8									10.15 01			10.10 00			
								10.2	10.1		10.1	10.1		10.12	03 02 -189
9									10.85 10			10.75 01			
								Diff	10.9	10.8	10.8	10.7		1080	05 05 -197
	5.9			5.6					11.10 00			11.20 00			
10	5.6			5.3		5.75	1 2 3.27	11.1	11.1		11.2	11.2		1115	05 05 -213
	6.7			6.6											
11	6.4			6.3		6.65	1 0 2.90	t.fr.			11.8			1180	; a -225
	7.2			6.8											
12	6.9			6.5		7.00	2 2 2.86	12.2			12.2			1220	0 0 -234
	7.8			7.6											
13	7.5 B.			7.3		7.70	1 1 2.60	12.6			12.7			1265	0 1 -235
	8.5			7.9											
14	8.2	8.1	8.30 2 2	7.6 B.		8.10	20 20 2.55	13.1			f.			1310	2 ; -245
	8.9			8.5											
15	8.6	8.8	8.85 1 0	8.2	8.2	8.35	1 2 8.60	25 25 2.48		def.	f.			,	,
				8.8											
16	9.4			8.5	8.1	8.75	0 1 9.08	32 33 2.32		m.c.				,	,
17	9.6			9.3		9.45	2 1 2.18								
18	10.4			9.9		10.15	2 3 1.91								
	10.65 10														
19	10.7 10.6			10.4		10.52	13 12 1.90								
	11.20 00														
20	11.2 11.2			10.7		10.95	25 25 1.78								
	11.60 1 1			11.50 00											
23	11.5 11.7			11.5 11.5		11.55	05 05 1.79								
	12.25 01			12.15 10											
25	12.2 12.3			12.1 12.2		12.20	05 05 1.67								
				12.80 00											
26	def. def.			12.8 12.8		12.80	; a 1.53								
	13.20 1 2			13.20 00											
31	13.3 13.1			13.2 13.2		13.20	00 00 1.49								
				13.40 00											
38	t.fr. - t.fr.			13.4 13.4		13.40	; a 1.71								
39	f.			t.fr. f.		,	,								
30															

Ch. P.C.

* fogged and full of defects.

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Wednesday November 10, 1915.

Scale R Series 331. Copied.

*mc 6388 W Sagittae 19 20 + 20.

for Var. * Alt +.19 G.C.

Seq. not at culm sc.1 sc.2 sc.1 sc.2 sc.3 Cw. Magn.

a		.		8.0 7.7 7.4	8.05 8.01	8.1	-1.49 6.56
b		.		7.1		13.	. .
c		.		9.6	9.8	9.70 1 1	-1.81 7.89
d	B.	.		11.2	11.4	11.30 1 1	-2.14 9.16
e		.		9.9	9.8	9.85 1 0	-1.85 8.00
f	B	.		9.8	9.9	9.85 0 1	-1.85 8.00
g	B	.		9.5			-1.76 7.74
h	B.	.		11.1			-2.10 9.00
k	t.p.	.		11.1			-2.10 9.00
l	B. 6.8	.		10.2			-1.92 8.28
m	6.5		2.89	9.69	12.1		-2.40 10.30
m	6.4 6.7		2.92	9.62	12.6		-2.39 10.21
o	t.p. 7.8		.	.	12.1		-2.40 10.30
p	7.5 7.1		2.60	10.40	t.p.		. .
q	6.8		2.82	9.92	13.2		-2.45 10.75
r	t.p. B. 8.5		.	.	t.		. .
s	8.2 8.9	8.3	8.40 1 1	2.44	10.84	t.	. .
t	8.6	8.9	8.90 0 0	2.32	11.22		
u		9.5		2.15	11.65		
w		10.3		1.93	12.23		
x		t.p. 11.15 1 0		.	.	Ch. P.C.	
y		11.1 11.6	11.2 11.60 0 0	1.76	12.91		
z		11.6 12.35 1 0	11.6	1.69	13.29		
α		12.3 12.55 1 0	12.4	1.59	13.94		
β		12.5 12.70 1 1	12.6?	1.58	14.13		
γ		12.6	12.8	1.55	14.25		

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Wednesday November 10, 1915

Scale R. - Series 381.

Mc 6388 U Sagittae. Ref Seq. for centre.

P.C.

	sc.1		Cw.	Magn	sc.1 sc.2	sc.2	
1	B		.		9.5 9.5	9.50 0 0 - 1.77	7.73
2	B		.		10.8 10.6	10.70 1 1 - 2.01	8.69
3	B		.		t.fr. t.fr.	. .	. .
4	7.5 B.		2.60	10.40	t.fr.	. .	. .
5	8.1	8.4	8.40 0 0	2.44	10.84	t.fr.	. .
6	8.1	8.8	8.90 1 1	2.32	11.22	n.s.	. .
7		9.4		2.18	11.58		
8		10.21		1.94	12.14		
9		10.5		1.89	12.39		
10		10.8	11.55 1 0	1.83	12.63		
11		11.5 11.6	11.60 0 0	1.70	13.25		
12		11.6 11.6	12.25 0 1	1.69	13.29		
13		12.2 12.3	13.05 1 0	1.61	13.86		
14		13.1 13.0	13.20 1 1	1.54	14.59		
15		13.1 13.3		1.58	14.78		

bh. P.C.

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Mc♑389 Carte 19h - 16,5. Alt-26

P.C.

	Sc.1		Cm.	Magn	Sc.1 Sc.2 Sc.3			Cm	Magn
1	B.		.	.	10.1	10.1	10.10 0 0	-2.01	8.69
2	5.7 5.4		3.22	8.92	11.3	11.4	11.35 1 0	-2.15	9.20
3	B.		.	.	t.p.	t.p.	.	.	
4	7.6 7.3	B.	2.66	10.26	t.p.		.	.	
5	8.6 8.3	8.3	8.45 2 1	2.42	10.87	½	.	.	
6	8.6 8.3	8.4	8.50 1 1	2.42	10.92				
7		9.4		2.18	11.58				
8		10.2		1.95	12.15				
9		10.1		1.85	12.55				
10		10.4		1.91	12.31				
11		10.6		1.87	12.47				
12		11.1		1.78	12.88				
13		11.1		1.68	13.38				
14		11.1	11.60 1 1 11.5	1.69	13.29				
15		12.1	12.10 0 0 12.1	1.62	13.72				
16		12.2	12.15 0 1 12.1	1.61	13.76				
17		12.4	12.40 0 0 12.4	1.59	13.99				
18		12.6	12.45 2 1 12.3	1.58	14.03				
19		t.p.	t.p.	.	.				
20		t.p.		.	.				

P.C. images very poor.

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MC 6390 Carte 20 -10. Alt -07

P.C.

	sc.1	sc.2		Cw.	Magn.	sc.1	sc.2	Cw.	Magn.
1	6.5			2.89	9.69	12.1	–	2.29	9.81
2	7.3			2.66	10.26	12.9	–	2.43	10.47
3	7.6	B.		2.58	10.48	t.fr.		.	.
4	7.9	8.3	8.25 0 1	2.48	10.73	t.fr.		.	.
5	8.4	8.6	8.65 1 0	2.38	11.03	t.fr.		.	.
6	8.6	9.1	9.00 1 1	2.29	11.29	t.fr.		.	.
7		9.6		2.11	11.71				
8		10.1		1.98	12.08				
9		10.7		1.85	12.53				
10		10.7		1.85	12.55				
11		11.1		1.77	12.87				
12		10.6		1.87	12.47				
13		10.9	1	1.81	12.71				
14		11.2		1.76	12.96				
15		11.75	0 1 t.fr.	1.67	13.42				
		11.8	11.7						
16		12.20	0 0	1.61	13.81				
		12.2	12.2						
17		12.30	1 1	1.60	13.90				
		12.2	12.4						
18		12.70	0 0	1.55	14.25				
		12.7	12.7						
19		t.fr.	t.fr.	.	.				
20		13.50	0 0	1.70	15.20				
		13.5	13.5						

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Wednesday November 10, 1915.

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Mc 6391 Carte 20 - 23.5. Alt-47

P.C.

	sc.1			Cw.	Magn	sc.1	sc.2	
1						8.1 t.f.	- 1.50	6.60
2	B.			.		t.f.	.	
3	B			.		t.f.	.	
4	B			.		t.f.	.	
5	B			.		t.f.	.	
6	t.f.			.		t.f.	.	
7	t.f.			.		t.f.	.	
8	8.2 1.9			2.49	10.69			
9	8.9 8.6	8.8	885 10	2.32	11.17			
10	8.8 8.5	8.9	885 01	2.32	11.17			
11		9.2		2.24	11.44			
12		9.3		2.21	11.51			
13		9.4		2.19	11.59			
14		t.f.		.	.			
15		10.4		1.91	12.31			
16		t.f.		.				
17		t.f.		.				
18		t.f.		.				
19		t.f.		.				
20		t.f.		.				

Images very poor, especially faint stars and pris. companions.

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Thursday, November 11, 1915

Scale R Series 331- Plot, Sheet No. 226.

9:50 Mc 6392 Pole.

	6398 sc.1	6398 sc.2	P.C sc.1	P.C sc.2	sc.1	sc.2	sc.3	sc.4	Diff
5			7.7 7.4 B		sup.				-1.21
6			8.4 8.1 8.25 2 1 8.1		8.5 8.2 8.50 0 0		8.5	8.38 13 12	-1.27
8			10.15 1 0 10.1 10.2		10.20 0 0 10.2		10.2	10.18 03 02	-1.95
9			10.75 1 0 10.7 10.8		10.90 0 0 10.9		10.9	10.82 07 08	-1.99
10	5.5 5.2	5.5 5.2	11.15 1 0 5.50 0 0 3.52 11.1	11.2	11.30 1 1 11.2		11.4	11.22 07 08	-2.20
11	6.6 6.3	6.4 6.1	6.50 1 1 3.25 11.7	t.p.	t.p.	t.p.	11.70	2 ,	-2.15
12	6.8 6.5	6.7 6.4	6.75 0 1 3.21 12.2		12.25 1 0 12.3	12.2	12.22	02 03	-2.36
13	7.4 7.1	7.5 7.2	7.45 0 1 3.85 13.1		12.8		12.95	1 2 15 15	-2.65
14	7.8 7.5 B.	8.1 7.8 B	7.95 2 1 2.70 t.p.		t.p.		,	,	
15	8.4 8.1 8.2	8.30 1 1	8.2 8.4 8.45 1 0 8.38 08 07 2.70	t.p.	t.p.		,	,	
16	8.6 8.3 8.6	8.60 0 0	8.6 8.8 8.90 0 0 8.75 15 15 2.65	t.			,	,	
17	9.2 8.9 9.3	9.25 0 1	9.3 9.28 03 02 2.35						
18	9.9		10.2 10.05 1 2 2.01						
19	10.4		10.5 10.45 0 1 1.97						
20	10.6		10.9 10.75 2 1 1.98						
23	11.40 1 1 11.3 11.5		11.80 0 0 11.8 11.8 11.60 20 20 1.74						
25	12.05 1 2 11.9 12.2		12.35 0 1 12.4 12.3 12.20 15 15 1.67						
26	12.65 0 1 12.6 12.7		12.85 1 0 12.9 12.8 12.75 10 10 1.58						
27	t.p. t.p.		t.p. t.p. ,						
28	13.40 0 0 13.4 13.4		13.70 0 0 13.7 13.1 13.55 15 15 1.56						
29	t.p. t.p.		t. t.p. ,						
30	t. n.s.		n.s. ,						

Ch. P.C.

11:34

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Mc 6393 — Carte — 20 +65°

D.C. — Alt +18

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc?		Cw.	Magn
1	B.			.		10.6	10.6	10.60	0 0	−2.01	8.59
2	6.5 6.21			3.15	9.65	12.1	12.2	12.15	⊥0	−2.41	9.74
3	6.7 6.4			3.09	9.79	t.f.	t.f.			.	.
4	7.7 7.4			2.80	10.50	12.9	13.2	13.05	⊥2	−2.64	10.41
5	7.8 7.5			2.76	10.56	13.3	13.4	13.35	⊥0	.	.
6	8.1 7.8	8.0	8.05	1 0	2.71	10.76	t.f.			.	.
7	8.6 8.5	9.1	8.95	2.1	2.48	11.43					
8		9.5			2.30	11.80					
9		10.21			2.06	12.26					
10		10.4			2.00	12.40					
11		10.1			1.93	12.63					
12		10.8			1.90	12.70					
13		11.21			1.82	13.02					
14		11.21			1.82	13.02					
15		11.3			1.80	13.10					
16	11.40 0 0 11.4	11.4			1.79	13.19					
17	12.20 0 0 12.2	12.2			1.67	13.87					
18	12.40 0 0 12.4	12.4			1.63	14.03					
19	12.85 1 0 12.9	12.8			1.59	14.44					
20	13.35 0 ⊥ 13.4	13.3			1.56	14.91					

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mc 6394 D 11. 21 - 15

P.C Alt. — 18

	sc.1	sc.2				sc.1	sc.2	sc.2		Cw.	Magn
1	B			.		9.4	9.4	940	0 0	−1.65	7.75
2	B			.		10.2	10.3	10.25	0 1	−1.90	8.35
3	.			.		.	.			.	.
4	.			.		.	.			.	.
5	B			.		10.1	10.3	10.20	1 1	−1.89	8.31
6	.			.		.	.			.	.
7	B			.		10.6	10.6	1060	0 0	−2.00	8.60
8	B			.		t.p.				.	.
9	B			.		t.p.				.	.
10	B			.		11.3? poor				−2.20	9.10?
11	B			.		11.3				−2.20	9.10
12	B			.		t.p.				.	.
13	6.21	6.5			3.15	9.65	t.p.			.	.
14	6.6	6.9			3.02	9.92	t.p.			.	.
15	7.4	7.7			2.81	10.51	t.p.			.	.
16	7.1	7.4			2.88	10.28	13.1			→ 10.45	
17	7.5	7.8			2.78	10.58	13.5			−2.65	.
18	7.9	8.2			2.66	10.86	t.p.			.	.
19	7.8	8.1	B.		2.70	10.80	13.4? poor			.	.
20	7.9	8.2	8.1	8.15 0 1	2.68	10.83	↓			.	.
21	8.3	8.6	8.6	8.60 0 0	2.56	11.16					
22	8.3	8.6	8.5	8.55 0 1	2.58	11.13					
23	8.78	9.1 9.0	9.1	9.07 0 0	2.42	11.49					
24 red star?	8.83	8.6 8.6	8.5	8.57 0 0	2.57	11.14					
25		9.6			2.27	11.87					
26		9.6			2.27	11.87					

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Scale N

Series 33.1 . Copied.

Mch 39 4 D 11 cont.

	sec.				Cur.	Magn
27	9.8				2.20	12.00
28	10.2				2.07	12.27
29	10.7				1.94	12.64
30	11.1				1.85	12.95
31	11.3				1.80	13.10
32	11.9	11.8	11.85	1 0	1.71	13.56
33	11.7	11.8	11.75	∠ 0	1.72	13.47
34	12.2	12.2	12.20	0 0	1.67	13.87
35	12.3	12.3	12.30	0 0	1.65	13.95
36	12.4	12.7 noon	12.55	2 1	1.61	14.16
37	13.1	13.2	13.15	∠ 0	1.56	14.71
38	13.1	t.p.			1.56	14.66
39	13.2	13.4	13.30	∠ 1	1.56	14.86
40	t.p.	t.p. noon			.	.
41	13.5?	t.p.			1.46	14.96?
42	n.s.	∠			.	.
43	n.s.	∠			.	.

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Thursday November 11, 1915

Scale R

Series 331-

Mc 6395 Jupiter 21 03 -17.9

P.C.

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc.2	Cw
1	B.			.	.	10.1	10.1	10.10 00	- 1.85 8.25
2	B 7.6			.	.	10.4	10.5	10.45 0 1	- 1.97 8.48
3	7.3	B.		2.83	10.43	t.f.	t.f.	.	.
4	8.4 8.7	8.9	8.80 L 1	2.51	11.31	t.f.		.	.
5		9.6		2.26	11.86	n.s.		.	.
6		9.6		2.26	11.86				
7		10.4		2.00	12.40				
8		10.6	10.85 1 0	1.95	12.55				
9		10.9	10.8 11.15 L 0	1.90	12.75				
10		11.1	11.21	1.84	12.99				
11		t.f.	11.6	1.74	13.34				
12		t.f.	t.f. 12.20 0 0	.	.				
13		12.21	12.21	1.67	13.87				
14		12.9	t.f.	1.58	14.48				
15		t.f.	t.f.	.	.				
~~16~~									
~~17~~									

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Copied

Scale R

Series 331

Alt - 28

* Mc 6396 Carte 21h -16.5

D C.

	sc1	sc2	Cw.	Magn.	sc1	sc2	sc?		
1	B		.		11.2	11.2	11.20 0 0	-219	9.01
2	B		.		t.p.	t.p.	.	.	
3	B		.		11.3	11.4	11.35 ⊥ 0	-221	9.14
4	B		.		t.p.	t.p.	.	.	
5	7.6 7.3 86 B.		2.83	10.43	13.1?	t.p.	.	-264	10.46?
6	8.3	8.1	8.65 0 1	2.56	11.21	t.	.	.	
7	8.8 9.1	9.1	9.10 0 0	2.42	11.52				
8		10.1		2.11	12.21				
9		10.3		2.04	12.34				
10		t.p.		.	.				
11		10.9		1.88	12.78				
12		10.1		1.84	12.54				
13		t.p.		.	.				
14		11.2?		1.82	13.02?				
15		11.4 11.4	11.40 0 0	1.78	13.18				
16		t.p. 11.5	12.20 ⊥ 1	1.76	13.26				
17		12.1 12.3		1.67	13.87				
18		t.p. t.p.		.	.				
19		t.p. t.p.	13.15 ⊥ 0	.	.				
20		13.1 13.2		1.56	14.71				

fogged.

* Images very poor. Comparison with scale difficult.

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Thursday November 11, 1915

Scale R

Series 331 –

Copied.

M C 6397 — I Cephei 21 +82.5

D.C.

Alt +08

		sc.1 sc.2	Cu.	Magn	sc.1 sc.2
a		9.9	2.16	12.06	n.s.
b		10.2	2.07	12.27	
c		9.3	2.36	11.66	
d		10.4	2.01	12.41	
e		10.5	1.98	12.48	
f		11.2	1.82	13.02	
g		11.6	1.74	13.34	
h		12.1	1.69	13.79	
k		12.4	1.62	14.02	
l		t.p.	.	.	
(red tube m') =	m	12.7	1.60	14.30	
n		t.p.	.	.	
o					
p					

Plate is fogged –

Original Record states "slightly cloudy". Rejected for extreme discordance. Jan. 19, 1916.

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1915phae.proj.10700

Wednesday November 17, 1915.

Scale

9 50

Sc. measures of a plate - 4 Eqhs.

A 10965

1st Eqh. = (most northern image.

Sc 1, Sc 2

1

2 36?

3

4 t.p.

6 t.p.

6 t.p.

7 t.p.

8 t.p.

9

10 t.p.

11 t.p.

12 43?

13 t.p.

14 t.p.

15 t.p.

16

17

18 t.p.

19 t.p.

20 t.p.

21

22

23

24

25

26

Rejected by
Miss Leavitt.

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1915phae.proj.10700

Wednesday November 17, 1915

Scale

Sc. measures of a plate
A 10965
1st 4th coat.
sc. 1 sec
24 h.p.
28
29
30
31
32
33
34
35
36
37
38
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48
49

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Wednesday November 17, 1915 –

Slide 66

Scale 8 m
2:16

Sc. measures – Harvard Standard Regions.

a mg 380 – 8 21 4 00 – 450

	sc.1	sc.2		Diff from Series	Cu	magn	Diff	Cu	magn
1	6.2	6.4 6.5	6.45 01	0.65	0.82	7.27	0.57	0.57	7.02
2	6.7	6.9 6.8 6.9	6.90 00	0.88	0.83	7.73	0.63	0.65	7.55
3	6.8	6.8	6.80 00	0.69	0.82	7.62	0.68	0.64	7.41
4	6.7	6.9 6.8	6.85 10	0.71	0.82	7.67	0.53	0.64	7.49
5	6.9	7.1 7.1	7.10 00	1.15	0.83	7.93	0.68	0.68	7.78
6		7.5		0.68	0.84	8.34	0.42	0.76	8.26
7		7.5		1.09	0.84	8.34	0.72	0.76	8.26
8		7.5		.	0.84	8.34	0.84	0.76	8.26
9		7.6		0.78	0.84	8.44	0.76	0.78	8.38
10		7.6		0.86	0.84	8.44	0.82	0.78	8.38
11		7.7		0.86	0.84	8.54	0.78	0.80	8.50
12		7.7		0.89	0.84	8.54	0.78	0.80	8.50
13		7.8		0.87	0.85	8.65	0.92	0.83	8.63
14		8.2		0.76	0.88	9.08	0.72	0.92	9.12
15		8.3		0.98	0.92	9.22	0.96	0.94	9.24
16		8.3		0.82	0.92	9.22	0.91	0.94	9.24
17		8.1	8.6 8.65 10	.	1.03	9.68	.	1.03	9.68
18		8.4	8.4 8.40 00	0.79	0.95	9.35	0.91	0.97	9.37
19		8.6	8.5 8.55 00	1.14	1.00	9.55	1.15	1.02	9.57
20		8.1	8.8 8.75 10	1.20	1.08	9.83	1.02	1.10	9.85
21		9.1	8.9 89.00 00	1.18	1.20	10.20	1.31	1.17	10.17
22		9.3	9.2 9.25 10	1.32	1.30	10.55	1.23	1.25	10.50
23		9.3	9.3 9.30 00	1.27	1.34	10.64	1.18	1.28	10.58
24		9.4	9.5 9.45 01	1.33	1.40	10.85	1.31	1.33	10.78
25		9.7	9.1 9.70 00	1.50	1.54	11.24	1.44	1.45	11.15
26		9.9	9.8 9.85 10	1.62	1.60	11.45	1.46	1.50	11.35

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1915phae.proj.10700

Wednesday November 17. 1915 –

Scale M. Dc. measures of H. S. Regions.

am 9380

				Diff from Series	Cu	Magn	Diff	Cu	Magn
2	sc.1	sc.2							
27	9.9	10.0	9.95±0	·	1.67	11.62	·	1.53	11.48
28	9.9	10.0	9.95±0	1.80	1.67	11.62	1.85	1.53	11.48
29	10.1	10.1?	10.10?00	1.52?	1.77	11.87	1.49	1.60	11.70?
30									

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1915phae.proj.10700

Thursday November 18, 1915.

Scale R — Series 336.

9:30 — Mc 6450 — Pole — Mc 6455 — P.C. — P.C. Mc 6455

			Diff		Mc 6450 sc1 sc2	Mc 6455 sc1 sc2	P.C. sc1 sc2 sc2	P.C. Mc 6455 sc1 sc2 sc2				Diff
				5			8.2 7.9 8.15 0 1 8.1	8.4 8.1 8.25 2 1 8.1	8.20	05	05	-171
				6			9.0 8.1 8.95 0 1 8.9	8.9 8.6 9.00 1 1 9.1	8.92	03	02	-187
				8			10.30 0 0 10.3 10.3	10.55 1 0 10.5 10.6	10.42	12	13	-219
				9			10.70 1 1 10.8 10.6	10.95 2 1 10.8 11.1	10.82	12	13	-199
6.40	0	0	2.62	10	6.4 6.1	6.4 6.1	10.85 1 0 10.9 10.8	11.15 1 0 11.1 11.2	11.00	15	15	-198
7.40	0	0	2.15	11	7.4 7.1	7.4 7.1	12.1	11.6	11.85	3	2	-230
7.55	1	0	2.31	12	7.5 7.2 B.	7.6 7.3	12.1	12.2	12.15	1	0	-229
8.15	03	02	2.18	13	8.2 7.9 8.1 8.15 0 1	8.1 7.8 B.	12.6	12.4	12.50	1	1	-220
8.58	03	02	2.07	14	8.6 8.3 8.5 8.55 0 1	8.6 8.3 8.6 8.60 0 0	12.9	12.8	12.75	1	0	-210
9.20	00	00	1.88	15	9.2 8.9 9.2 9.20 0 0	9.2	13.1	13.3	13.20	1	1	-212
9.50	0	0	1.90	16	9.5	9.5	Sou.					
9.85	2	3	1.78	17	9.6	10.1	m.s.					
10.30	0	0	1.76	18	10.3	10.3						
10.65	1	0	1.77	19	10.9	10.6						
10.85	1	0	1.88	20	10.9	10.8						
11.60	2	2	1.74	23	11.4	11.8						
12.15	00	00	1.72	25	12.2 12.1 12.15 0 1	12.2 12.1 12.15 0 1						
12.52	02	03	1.81	26	12.4 12.6 12.50 1 1	12.5 12.6 12.55 1 0						
12.75	05	05	1.94	27	12.9 12.9 12.70 0 0	12.7 12.9 12.80 1 1						
13.32	02	03	1.79	28	13.2 13.4 13.30 1 1	13.3 13.4 13.35 1 0						
13.55	05	05	2.11	29	13.9 13.5 13.60 1 1	13.8 13.5 13.50 0 0	Ch. F.C.					
14.00	2	1	2.04	30	14.0 14.0 14.00 0 0	f. f.						

11:12.

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Mc 6451 W Sagittae 19 20 +20.0°

alt +.18 P.C.

*	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc.2	Cw.	Magn
a	B.					8.1 7.8	8.10 0.0	8.1	-1.70	6.40
b	B					7.8 7.5	B.		.	.
c	B						9.60 0.0			
						9.6	10.65 0.1	9.6	-2.01	7.59
d	B.					10.6	9.60 0.0	10.1	-2.14	8.51
e	B					9.6	9.65 0.1	9.6	-2.01	7.59
f	B					9.6		9.1	-2.02	7.63
g	B.					9.6			-2.01	7.59
h	B.					t.p.			.	.
k	B.					10.6			-2.14	8.46
l	B.					10.2			-2.08	8.12
m	7.2 6.9			2.36 4	9.56 4	t.p.			.	.
n	7.4 7.1			2.29	9.69	12.5			-2.18	10.32
o	7.4 7.1			2.29	9.69	t.p.			.	.
p	8.1 7.8			2.12	10.22	13.1			-2.11	10.99
q	7.7 7.4	B.		2.20	9.90	t.p.			.	.
r	8.1 7.8	8.1	8.10 0.0	2.12	10.22	t.p.			.	.
s	8.1	9.1	9.05 0.1	1.93	10.98	13.5			.	.
t		9.30 1.1 9.4	9.2	1.90	11.20	F.			.	.
u		9.80 0.0 9.8	9.8	1.81	11.61					
#										
w		10.25 0.1 10.2	10.3	1.77	12.02					
x		10.55 1.0 10.5	10.6	1.76	12.31					
y		t.p. 11.1?		.	.					
z		t.p.	t.p.	.	.					
α		t.p.		.	.					
β		t.p. see also next page -								

Ch. P.C.

*Seq. not in centre of plate.

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Thursday November 18, 1915

Scale R

Series 336 –

MO 6451 W Sagitt.

Ref.	Seq.	sc.1	sc.2				P.C. sc.7	P.C. sc.2		
							9.50 00			
	1	B.			.		9.5	9.5	-2.01	7.49
							10.55 0 1			
	2	B			.		10.6	10.5	-2.13	8.42
	3	B	B.		.		t.p.	t.p.	.	.
84	4	8.1	8.1	8.25	2 1	2.09	10.34	t.p.	t.p.	. .
87							13.30 0 0			
	5	8.4	8.5	8.60	1 1	2.03	10.63	13.3	13.3	-2.09 11.21
92	6	8.9	9.4	9.30	1 1	1.90	11.20	14.0		. .
	7		10.1			1.79	11.89			
	8		10.3			1.76	12.06			
	9		10.7	10.7	1070 0 0	1.76	12.46			
	10		10.6	10.6	1060 0 0	1.76	12.36			
	11		11.4	11.5	1145 0 1	1.75	13.20			
	12		11.6	11.6	1160 0 0	1.77	13.37			
	13		12.2	12.2	1220 0 0	1.81	14.01			
	14		12.6	12.6	1260 0 0	1.85	14.45			
	15		t.p.	t.	.	.	.			
	16									
	17									
	18									
	19									
	20									

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Thursday November 18, 1915 –

Scale R

Series 336.

MC 6453 R R Draco.

Ref.	Seq.	sec. 1	sec. 2			P.C. sec. 1	sec. 2		
	1	B				10.3?	10.4?	10.35 ± 0	−2.10 8.25?
	2	B				11.1	11.1	11.10 0 0	−2.18 8.92
	3	7.1 6.8	B.		2.36	10.66	11.7	11.8	11.75 ± 0	−2.20 9.55
	4	8.4 8.1	8.2	8.30 ± 1	2.09	10.89	12.7	12.4	12.55 ± 2	−2.17 10.38
	5	8.8 8.5	8.8	8.80 0 0	1.99	10.79	13.1	13.2	13.15 ± 0	−2.11 11.04
	6	9.1 8.8	9.1	9.10 0 0	1.93	11.03	13.3	#		−2.09 11.21
	7		9.1		1.83	11.53	t.fr.			. .
	8		10.2		1.77	11.97	K.S.			. .
	9		10.5		1.76	12.26				
	10		10.5		1.76	12.26				
	11		10.5		1.76	12.26				
	12		10.5		1.76	12.26				
	13		10.8		1.75	12.55				
	14		11.2		1.75	12.95				
	15	11.50 0 0	11.5	11.5	1.76	13.26				
	16	12.15 ± 0	12.1	12.2	1.81	13.96				
	17	12.60 ± 1	12.7	12.5	1.86	14.46				
	18	13.00 ± 1	12.9	13.1	1.91	14.91				
	19	13.45 ± 0	13.5	13.4	1.99	15.44				
	20	13.75 0 ±	13.8	13.7	2.04	15.79				

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Scale R Series 336. Copied

* Mc6453 R R Draco. alt. +.18

Dar. Seq.

	G.C.		
	pd Var.	Cw.	Magn
a	10.30 00 10.3 10.3	-.210	8.20
a'	12.40 0 extreme edge. 12.4 12.4?	-.218	10.22?
b	11.85 01 11.8 11.9	-.220	9.165
c	11.70 00 11.7 11.7	-.220	9.50
d	11.95-21 11.8 12.1	-.220	9.75
e	12.45 21 12.6 12.3	-.217	10.28
f	12.90 00 12.9 12.9	-.214	10.76
f'	13.45 10 13.5 13.4	.	.
h	?. ?.	.	.
k	w.s.	.	.
g			
m			
n			
l			
o			
o'			
o²			
Var.	11.6	-.220	9.40

* Seq. 80 mm from centre measure only pris. comp. of S.L.

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Mc 6454 W Delph. 20 33 17. Alt. +.18

O.C.

		sc.1	sc.2	sc.2			sc.1	sc.2			
a	B.			.			10.4	10.4	10.40 0 0	-2.11	8.29
b	B.			.			11.1	10.3*		-2.18	8.92
c	B			.			t.f.	t.f.	,	.	.
d	B.			.			12.8	12.9	12.85 0 1	-2.15	10.70
e	9.2	8.9	9.1	915 0 1	1.91	11.06	t.f. nearly sup?				
e'	1.84	8.1	8.4	840 0 0	2.06	10.46	12.5 - t.f.			-2.17	10.3
f	±		9.5		1.86	11.36					
f'			10.1		1.78	11.88					
f²			10.7		1.75	12.45					
f³			10.9		1.75	12.65					
g			10.1		1.78	11.88					
h			10.1		1.78	11.88					
k			10.7	11.35 1 0	1.75	12.45					
l			11.3	11.4	1.75	13.10					
l²			12.10 0 0								
			12.1	12.1	1.81	13.91					
m			12.30 0 0								
			12.3	12.3	1.82	14.12					
n			12.65 1 0								
			12.7	12.6	1.86	14.51					
o			12.80 0 0								
			12.8	12.8	1.89	14.69					
p			13.50 0 0								
			13.5	13.5	1.99	15.49					
q			t.f.	t.f.	.	,					
V											
Var.		B ~~Hrs~~					11.5? v.f.			-2.20	9.30?

Remeas.
O.C.

a 10.3

b 10.9 * reject "10.3", wrong star measured? measure 11.1 above is O.K.

c t.f. not error of unit. D. Jan. 17, 1916.

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Friday, November 19, 1915.

Scale R

Series 336-

Mc 6455 Pole.

Mc 6461.

O.C.

Diff

	sc.1	sc.2	sc.3	sc.1	sc.2	O.C. sc.1	O.C. sc.2	O.C. sc.3	Diff
5						7.8	8.0	7.7 B	8.00 00 00 − 1.51
6						8.4	8.6	8.5	8.60 00 00 − 1.49
8						10.2	10.1	10.4	10.22 08 07 − 1.99
9						10.6	10.7	10.8	10.70 00 00 − 1.86
10	5.5			5.5		5.80 0 0	3.22	10.6 10.9	10.9 10.9 10.82 07 08 − 1.80
11	6.6			6.5		6.85 1 0	2.70	11.3	11.4 11.35 1 0 − 1.79
12	7.3			7.2		7.55 0 1	2.31	11.8	t.p. 11.80 2 1 − 2.28
13	8.1	8.00	1 1	8.1		8.05 0 5	0 5 2.25	t.p.	12.4 12.40 2 1 − 2.32
14	8.2	8.2	8.35	1 2	8.1 8.3	8.35 0 1	8.35 00 00	2.30 12.6	12.6 12.60 0 0 − 2.36
15	8.6	9.1	9.00	1 1	8.4 8.6	8.65 1 0	8.82 18 17	2.26 13.21	13.21 13.20 0 0 − 2.56
16		9.5			8.9 8.4	9.20 0 0	9.35 15 15	2.05 13.5	13.6 13.55 1 0 − 2.61
17		9.8			9.5		9.65 2 1	1.98	w.s.
18		10.2			10.2		10.20 0 0	1.86	
19		10.5			10.6		10.55 1 0	1.87	
20		10.7 +0.5 w.s.			10.1		10.70 0 0	2.03	
23		11.5			11.3		11.40 1 1	1.94	
25	11.8	12.1	11.95		11.9 12.1	12.00	11.98 03 02	1.89	
26	12.4	12.5	12.45		12.3 12.4	12.35	12.40 05 05	1.93	
24	12.6	12.7	12.65		12.8 12.6	12.70	12.68 03 02	2.01	
28	12.9	12.9	12.90		13.1 13.4	13.25	13.08 18 17	2.03	
29	13.4	13.5	13.45		13.5 13.6	13.55	13.50 05 05	2.16	Ch. F.C.
30	t.p.				14.0 14.0	14.05	14.05	1.99	

12:05

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Friday November 19, 1915.

Scale R Series 336. Copied.

Mc6456 Carte 21 + 10. Alt +14

P.C.

	Rc.1				Cw.	Magn.	Rc.2	Rc.2		Cw.	Magn.
1	B.				.	.	10.1	10.3	10.20 1 1	-189	8.31
2	6.6 6.3				278	9.38	11.3	10.8	11.05 3 3	-200	9.05
3	8.5 8.2	8.4 8.1	8.1	8.33 2 1 2	222	10.55	12.5	t.f.		-216	10.34
4	8.1 8.8	8.7 8.9	8.1	8.13 0 1 0	226	10.39	t.f.	12.2		-214	10.06
5	8.7 8.9		8.1	8.15 0 1	225	10.40	12.3	12.2	12.25 1 0	-214	10.11
6	8.6 8.3	8.4		8.50 1 1	219	10.69	12.6			-217	10.43
7	8.6 8.3	8.3		8.45 2 1	220	10.65	12.6			-217	10.43
8	9.2 8.9	9.2		9.20 0 0	207	11.27	13.1			.	.
9		9.5			202	11.52	14.0			.	.
10		10.5			194	12.44	w.s.			.	.
11		10.4			194	12.34					
12		10.5			194	12.44					
13		10.6			192	12.52					
14		10.9			191	12.81					
15		11.3	11.6	11.45 (1 2)	192	13.37					
16		11.7	11.8	11.75 (1 0)	194	13.69					
17		12.1	12.1	12.10 (0 0)	195	14.05					
18		12.6	12.5	12.56 (0 1)	199	14.54					
19		12.7	12.7	12.70 (0 0)	199	14.69					
20		t.f.	t.f.		.	.					

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Mc6457 Carlé 21 +55 Oct +22

O.C.

	Sc.1	Sc.2	Sc.7			Sc.1	Sc.2	Sc.7	Cor	Magn
1	B					8.5	8.95 2 1	9.1	-.167	7.28
2	B.					10.7 0 0 10.7		10.1	-.195	8.75
3	B					12.10 0 0 12.1		12.1	-.200	10.10
4	8.7 9.9 8.4	B.		2.24	10.44	12.60 2 2 12.8		12.4	-.206	10.54
5	8.1	8.21	8.30 1 1	2.22	10.52	13.10 0 0 13.1		13.1	-.213	10.97
6		9.21		2.08	11.28	13.5?			-.216	11.34?
7		9.3		2.06	11.36	1.		.		,
8		10.1		1.97	12.07					
9		10.3		1.95	12.25					
10		10.6		1.92	12.52					
11		11.2		1.92	13.12					
12		11.21		1.92	13.12					
13		11.4		1.93	13.33					
14		11.7		1.94	13.64					
15		11.8		1.94	13.74					
16		11.90 0 0 11.9	11.9	1.95	13.85					
17		12.45 1 0 12.5	12.4	1.98	14.43					
18		12.50 0 0 12.5	12.5	1.98	14.48					
19		12.75 1 0 12.7	12.8	2.00	14.75					
20		13.35 1 2 13.5	13.2	2.04	15.39					

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Mc6458 Carte 22 +46. Alt +23

P.C.

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc.2	Cw	Magn
1	B.			.		8.5	8.7	8.6	-1.61	7.09
2	A.			.				10.60 0 0 10.6	-1.94	8.66
3	6.5 6.2			2.82	9.32			11.15 0 1 11.2 11.1	-2.01	9.14
4	7.4 7.1			2.44	9.84			11.90 2 2 11.7 12.1	-2.10	9.80
5	8.0 7.7	B.		2.29	10.29			12.50 1 1 12.4 12.6	-2.16	10.34
6	8.7 7.9	7.9	8.05 2 1	2.27	10.32	12.1	hour	.	.	.
7	9.0 8.1	9.1	9.05 0 1	2.10	11.15	tip		.	.	.
8		9.8		2.00	11.80	tip		.	.	.
9		9.8		2.00	11.80					
10		10.3		1.95	12.25					
11		10.3		1.95	12.25					
12		10.6		1.92	12.52					
13		11.25 0 1 11.2 11.3		1.92	13.17					
14		11.35 0 1 11.4 11.3		1.92	13.27					
15		11.35 0 1 11.4 11.3		1.92	13.27					
16		11.55 1 0 11.5 11.6		1.93	13.48					
17		11.90 2 2 12.1 11.7		1.94	13.84					
18		12.15 0 1 12.2 12.1		1.95	14.10					
19		12.85 0 1 12.8 12.9		1.99	14.84					
20		13.50 0 0 13.5 13.5		2.05	15.55					

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Scale R Series 336. Copied

Mc 6459 Carte 22 + 65 Alt +19

O.C.

	scl	scr		Cw.	Magn	scN	scr		Cw	Magn
1	B.			.		10.3	10.1	10.20 1 1	-1.89	8.31
2	B.			.		10.5	10.4	10.45 1 0	-1.91	8.54
3	B.			.		11.5	11.7	11.60 1 1	-2.06	9.54
4	7.8 1.5	B.		2.32	10.12	12.2	12.2	12.20 0 0	-2.14	10.06
5	8.4 8.1	8.2	8.30 1 1	2.22	10.52	12.9	12.9	12.90 0 0	.	.
6	8.9 8.6	9.1	9.00 1 1	2.10	11.10	t.p.			.	.
7		9.6		2.00	11.60	13.8? now			.	
8		10.3		1.95	12.25	u.s.			.	
9		10.4		1.94	12.34					
10		10.5		1.93	12.43					
11		10.8		1.92	12.72					
12		10.8		1.92	12.72					
13		11.5		1.93	13.43					
14		11.5		1.93	13.43					
		11.80 0 0								
15		11.8	11.8	1.94	13.74					
		12.25 0 1								
16		12.2	12.3	1.96	14.21					
		12.45 1 0								
17		12.5	12.4	1.98	14.43					
		12.65 1 0								
18		12.7	12.6	1.99	14.64					
		13.40 0 0								
19		13.4	13.4	2.04	15.44					
20		f.	f.	.	.					

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1915phae.proj.10700

Friday November 19, 1915

Scale R. Series 336.

Mc 6460 ~~Carte~~ Dm 22 30+12.5

G.C.

	sc.1	sc.2		Cw.	Magn	sc.1	sc.2	sc.2			Cw.	
1	B			.	.	10.1	10.4	10.25	1	2	-1.89	8.36
2	B.			.	.	10.6	10.6	10.60	0	0	-1.94	8.76
3	B			.	.	10.8	?				-1.97	8.83
4	7.1 6.8			2.56	9.66	11.8	11.7	11.75	0	1	-2.08	9.67
5	7.8 1.5			2.32	10.12	12.5	12.4	12.45	1	0	-2.16	10.29
6	7.8 1.5	B		2.32	10.12	12.8					.	.
7	8.6 8.3	8.5	8.55	0 1 2.18	10.73	13.2					.	.
8		9.3		2.05	10.35	13.1	?				.	.
9		10.1		1.97	12.07	M.S.					.	.
10		10.4		1.94	12.34							
11		10.5		1.94	12.44							
12		10.5		1.94	12.44							
13		10.5		1.94	12.44							
14		11.3		1.92	13.22							
15		11.4		1.92	13.32							
16		12.2	12.1	0 1 12.15	1.95							14.10
17		12.5	12.4	1 0 12.45	1.98							14.43
18		12.8	12.5	2 1 12.65	1.99							14.64
19		12.8	12.8	0 0 12.80	1.99							14.79
20		13.3	13.3	0 0 13.30	2.04							15.34

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1915phae.proj.10700

Saturday, November 27, 1915.

Scale R

Sc. measures of Pleiades. YELLOW

9:55 MC 7449 3 44 +24 0

For brighter stars, see L. 39: 41

B.C.

		sc.1	sc.2	sc.1	sc.2
1				sup.	
2				5.7 5.4	
3				5.7 5.4	
4				5.8 5.5	
5				6.0 5.1	
6	B.			6.1 5.8	
7				6.5 6.5	
8				7.7 7.4	
9	B.			7.9 7.6 B.	
10	B			sup. on diffr. lam.	
11				9.1 8.8 9.2	
12				8.1 8.8 9.3	
13	B			9.6	
14				9.8	
15				9.8	
16				10.2	
17				10.5	
18	B			11.3 (very close to bit star)	
19	B.			11.7	
20	B			11.3	
21	B			11.3	
22	B			11.7	
23	B			12.1	
24	B			11.9	
25	B			12.2	
26	B			11.8	

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1915phae.proj.10700

Saturday November 27. 1915.

Scale R Pleiades YELLOW

me 7449 cont.

			Mean	P.C. sc.1	sc.2	sc.3	Mean
27	7.1	7.4		12.9	12.9		12.90 oo
28	7.6	7.9		13.4	13.4		13.40 oo
29	6.1	6.4		12.6	12.5		12.55 o⊥
29a	7.5	7.8 B.		13.4	13.4		13.40 oo
30	8.1	8.4 8.2	8.30 ⊥	13.9	14.0		13.95 ⊥o
31		9.8	9.7 9.75 o⊥	n.s.	n.s.		
32		10.7	10.8 10.75 ⊥o				
32a (not comp. with scale)		10.7	10.8? 10.75? ⊥o				
33		11.5	11.3 11.40 ⊥				
34		12.4	12.4 12.40 oo				
34a		12.4	12.6 12.50 ⊥				
35		12.6	12.8 12.70 ⊥				
35a		13.9 poor	13.8? 13.85? ⊥o				
36		13.7	13.8 13.75? ⊥o				
37		∓	∓				
38		13.3	poor 13.4 13.35 ⊥o				
39		n.s.	n.s.				
40		n.s.	n.s.				

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1915phae.proj.10700

Saturday November 27, 1915-

Scale R-

Sc. Measures. Pleiades. YELLOW

Mcy 749 cont. Diffr Images.

Star Images.	g sc.1	g sc.2	h sc.1	h sc.2	Mean	P.C. Diffr Im. g sc.1	g sc.2	h sc.1	h sc.2	Mean
1	B					sup.	sup.			
2	B					t.p.	9.4			9.4 · a
3	B					t.p.	9.6			9.6 · a
4	B					t.p.	10.1?			10.1? · a
5	B					10.2	10.3			10.25 01
6	B					t.p.	10.6			10.6 · a
7	B					t.p.	11.4			11.4 · a
8	B					t.p.	12.3			12.3 · a
9	B					t.p.	12.4			12.4 · a
10	B	B.	B			sup.	sup.			
11	sup.	·	sup.			13.5?	13.5			13.50 00
12	8.1?	8.4? 8.1	8.1	8.4	8.30 12	t.p.	13.6			13.6 · a
13	9.2	t.p.	·		9.2 a	t.p.	t.p.			
14	9.5?	poor 8.6	8.8	9.1	9.17 31	sup.	sup.			
15	sup?	8.8	9.2	9.1	9.15 01	t.p.	t.p.			
16	9.3		9.4		9.35 10	n.s.	n.s.			
17	10.5		10.4		10.45 10					
18	10.6		10.6		10.60 00					
19	11.5		11.3		11.40 11					
20	11.3		11.2		11.25 10					
21	11.2		11.1		11.15 01					
22	11.5		11.4		11.45 10					
23	11.8		11.8		11.80 00					
24	11.8		11.5		11.65 21					
25	11.8 +3.f w.s.		11.9		11.85 01					
26	* 11.4		11.4		11.40 00					

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1915phae.proj.10700

Saturday November 27, 1915

Scale R- Sc. Measures. Pleiades. YELLOW

Mc 7449 cont.

Star Images	g Sc 2	h Sc 2	Mean
27	13.1	12.9	13.00 ±1
28	13.6	13.6	13.60 00
29	12.3	12.4	12.37 ±0
29a	poor 13.3	13.3	13.30 00
30	nearly surf.	13.6	13.6 .2
31	∴	∴	
32	n.s.	n.s.	
32a			
33			
34	n.s.		

Diffr Im. Central Inv. Remeas. Dec. 17, 1915

*	g Sc 2	h Sc 2	
			11:05
25	12.1	12.1	
26	11.4	11.6	~~26~~ fren. measures of 26 correct.
27	13.1	13.1	

~~Do not~~

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1915phae.proj.10700

Saturday November 27, 1915.

Copied 1327:148

Plotting sheet 69

Scale 1m

Harvard Standard Region.

11:23 | a K 2587 | 5' | 14 40 −45.0 −90.0 | E6

E6 →

	sc.1	sc.2			Cu	Magn	Diff. Cu.		Rel. Magn.
1	t.p.	t.p.	.						
2	5.45	5.6	5.4	5.50	1.14	6.64	1.18	1.21	6.71
3	5.2	5.45	5.5	5.45	1.16	6.71	1.24	1.21	6.66
4	5.1?	5.9?	t.p.	5.9?	1.03	6.93?	1.17?	1.14?	7.04?
5	t.p.	t.p.	.				.		
6	6.4	6.6	6.5	6.55	0.90	7.45	1.03	1.05	7.60
7	6.6	6.8	6.8	6.80	0.84	7.64	0.98	1.03	7.83
8	7.3				0.76	8.06	1.02	1.02	8.32
9	7.3				0.76	8.06	1.03	1.02	8.32
10	7.4				0.75	8.15	1.02	1.02	8.42
11	7.8				0.77	8.57	1.04	1.03	8.83
12	8.1				0.81	8.91	0.80	1.04	9.14
13	7.9	8.1	8.00		0.79	8.79	0.98	1.04	9.04
14	8.3	8.4	8.35		0.90	9.25	1.09	1.06	9.41
15	8.3	8.3	8.30		0.87	9.17	1.03	1.05	9.35
16	8.3	8.3	8.30		0.87	9.17	1.02	1.05	9.35
17	8.6	8.6	8.60		1.02	9.62	1.06	1.09	9.69
18	8.6	8.6	8.60		1.02	9.62	1.17	1.09	9.69
19	8.6	8.7	8.65		1.04	9.69	1.15	1.10	9.75
20	8.7	8.7	8.70		1.07	9.77	1.40	1.11	9.81
21	9.3	9.1	9.20		1.47	10.67	1.31	1.19	10.39
22	9.1	9.2	9.15		1.43	10.58	1.28	1.19	10.34
23	9.1	9.3	9.20		1.47	10.67	1.34	1.19	10.39
24	ws 8.8	9.4	9.14		.		1.24	1.22	10.62
25	9.5	9.7	9.60		.		1.14	1.25	10.85
26	9.9	9.9	9.90		.		1.20	1.30	11.20
27	±	±							

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1915phae.proj.10700

Saturday, November 27, 1915.

Copied B27:205

Shot no 37

Scale M U. S. Region.

Atk 257 J'

sec 2

27

28

29 8.8

sec 1

			Diff	Cu	magn
South Pole- a	4.4	B. 4.6	1.18	1.37	5.97
b	5.1	B. 5.3	1.36	1.19	6.49
c	5.1 5.9	5.8 5.85	1.03	1.04	6.89
d	6.1 6.3	6.1 6.20	0.96	0.97	7.17
e	6.1 6.3	6.1 6.20	1.13	0.97	7.17
f	6.8 7.0	6.9 ~~6.95~~ 7.0	0.74	0.80	7.80
g	7.2		0.90	0.77	7.97
h	7.8		0.62	0.76	8.56
k	7.8		1.13	0.76	8.56
l	8.4		0.79	0.93	9.33
m	8.1		0.93	1.08	9.78
n	t.p.				
o	t.p.				
p	t.p.				
q	9.2		1.55	1.47	10.67
r	t.p.				
s	t.p.				

12:14

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1915phae.proj.10700

Tuesday
~~Monday~~ November 30/29, 1915.

Scale R

Series 190.

10:07

Mc 4724 Pole.

YELLOW

Mc 4729.

O.C. no P.C. for Series

	Sec. 1	Sec. 2			Sec. 1	Sec. 2				Sec. 1	Sec. 2	Diff.
	6.2				6.2							
5	5.9				5.9				6.20	0	0	0.23
	7.5				7.2							
6	7.2	B.			6.9	B.			7.25	1	2	-0.37
	9.2				9.2							
8	8.9	9.1	9.15	0 1	8.9	9.1	9.15	0 1	9.15	00	00	-1.12
9		10.3				10.4			10.35	1	0	-1.61
10		10.4				10.1			10.70	0	0	-1.82
11		11.5				11.3	11.30	0 0	11.40	10	10	-2.04
12		11.8	11.8	11.80 0 0		11.6	11.65	1 0	11.72	08	07	-2.14
13		12.6	12.6	12.60 0 0		12.5	12.4	12.45 1 0	12.52	08	07	-2.44
14		12.8	12.8	12.80 0 0		12.7	12.5	12.60 1 1	12.70	10	10	-2.46
15		13.3	13.4	13.35 1 0		13.2	12.9	13.05 2 1	13.20	15	15	-2.56/98
16		13.8	13.8	13.80 0 0		13.4	13.5	13.45 0 1	13.62	18	17	-2.68
17		14.0	13.9	13.95 0 1		t.f.	t.f.		13.95	a.		-2.91
18		t. n.s.				t. n.s.						
19												
20												
23												

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1915phae.proj.10700

~~Monday~~ Tuesday November ~~29~~ 30, 1915

Scale

Series 190. YELLOW

Mc 4724 Pole Diffr. Inv.

	g sc.1	h sc.2	sc.1	sc.2	g sc.1	h sc.2	sc.1	sc.2	
5	12.6	12.55	0 1/2	12.5	12.5	12.55	1/2 0	12.6	12.55 0000 – 612
6	13.2 ~~24~~	13.20	0 0	13.2	13.4	13.45	0 1	13.5	13.32 12 13 – 624
8	n.s.		n.s		n.s.		n s.		
9					n.s		n.s.		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

11:17.

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Tuesday November 30, 1915.

Scale R

Series 190 YELLOW

Copied.

Mc 4726 C1 1 + 15° Alt -.03

	sc.1	sc.2				Differ Sm. sc.1	Differ Sm. sc.2			
	7.7									
1	7.4	7.8		-.049	7.21	t.f.	13.6	-.637	7.23	
2	7.5	8.8		-.055	7.25	f	f.			
3	8.5		B.	.	.	t.f.	t.f.			
4	7.4	7.1	B	~~.040~~ ~~.064~~	~~7.00~~ ~~6.76~~	f	f.			
5		9.1		-.135	8.35	n.s.	n.s.			
6	9.1	8.8	9.1 9.10 0 0	-.112	7.98	n.s.	n.s.			
7	7.4	7.1	B	~~.040~~ ~~.064~~	~~7.00~~ ~~6.76~~	13.6?	def.	-.637	7.23?	
7a		10.4		-.164	8.76	n.s.	n.s.			
8		10.7		-.174	8.96					
9		10.21		-.156	8.64					
10		dbl		.	.					
		11.45 1 0								
11		11.5	11.4	-.204	9.41					
		12.20 0 0								
12		12.2	12.2	-.232	9.88					
		10.60 0 0								
13		10.6	10.6	-.171	8.89					
		12.80 0 0								
13a		12.8	12.8	-.249	10.31					
		12.85 0 1								
14		12.8	12.9	-.250	10.35					
		13.45 1 0								
15		13.5	13.4	-.269	10.76					
		13.55 1 0								
16		13.5	13.6	-.272	10.83					
17		f n.s.		.	.					
18		f.		.	.					
19		n.s.		.	.					
20		n.s.		.	.					
21		n.s.		.						
22										
23										
24										

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Tuesday, November 30, 1915

Scale R Series 190. YELLOW Copied.

Me 4727 C 2 8 + 15° Alt +07

	sc 1	sc 2				Diffr. Inn. 9 sc 1	9 sc 2	th sc 1	th sc 2		
1	t.p.			.		t.p.	t.p.			.	.
2	7.6 ? poor 7.3			-.046	7.14?	n.s.	n.s.			.	.
3	6.2 5.9	R		.021	6.41	12.4	12.40 00	12.4		-6.00	6.40
4	8.5 8.2	8.5	8.50 00	-.085	7.65	n.s.	n.s.			.	.
5	7.8 7.5	B.		-.055	7.25	13.9	dif?			-6.44	7.46
6	8.5 8.2	8.5	8.50 00	-.085	7.65	n.s.	n.s.			.	.
7		10.4		-.164	8.76						
8		10.6		-.172	8.88						
9	8.8 8.5	8.7	8.75 01	-.098	7.77						
10		10.7		-.174	8.96						
11		10.3		-.159	8.71						
12		11.7		-.214	9.56						
12a		12.4 11.70 00		-.238 14	10.02						
13		11.7	11.7	-.259	9.56						
14		12.9	t.p.	-.252	10.38						
15		13.35 01 13.4	13.3	-.266	10.69						
16		13.35 10 13.3	13.4	-.266	10.69						
17		13.80 11 13.7	13.9	-.279	11.01						
18		12.55 01 12.6	12.5	-.242	10.13						
19		13.95 01 14.0	13.9	-.283	11.12						
20		n.s.	n.s.	.	.						
21		n.s.	n.s.	.	.						
22		n.s.		.	.						
23											
24											

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Tuesday November 30, 1915.

Scale R — Series 190 - YELLOW — Copied.

mc 4728 — B1 — 1 20 +45° — Alt +06

						Diffr Inn.			
		sc.1 sc.2	Cw.	Magn	sc.1 sc.2	sc.1 sc.2	Cw.	Magn
	1	82 79 ·	-0.74	7.46	f.	139	-6.44	7.46
edge	2	f.p. ·	,	,	n.s.	n.s.		
	3	58 5.5 B	.	.	f.p.	f.p.		
edge	4	89 8.6 8.8 8.85 10	-1.00	790	n.s.	n.s.		
	5	9.6	-1.33	8.27	n.s.	n.s.		
	6	97 8.9 9.21 9.20 00	-1.17	8.03	n.s.	n.s.		
	7	9.9 9.85 10 9.8	-1.40	845	n.s.	n.s.		
	8	85 8.2 84 8.46 10	-0.82	763	f	139?	-6.44	746?
	8a	10.5	-1.68	8.82				
	9	10.6	-1.71	8.89				
Dbl. Bi comp. only measured	10	11.1	-2.14	9.56				
	11	9.8	-1.40	8.40				
	12	11.1	-1.89	9.21				
	13	10.4	-1.64	8.76				
	14	10.1	-1.75	8.95				
	15	1150 00 11.5 11.5	-2.06	9.44				
	16	1305 21 13.2 12.9	-2.57	10.48				
	17	12.15 01 12.2 12.1	-2.30	9.85				
	18	13.25 01 13.2 13.3	-2.62	10.63				
	19	1350 11 134 +3? ws.	-2.70	10.80				
	20	f.p. 13.6	-2.74	10.86				
	21	12.20 00 12.2 12.2	-2.31	9.89				
	22	f. 140	-2.85	11.15				
	23	n.s. n.s.	.	,				
	24	n.s.	.	,				
	25	n.s ,	,	,				

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1915phae.proj.10700

Thursday December 2, 1915

Scale R

Series 190. YELLOW

Copied

8:35

	Diff.		mc 47 2 8 9	Pole-				
				mc 47 30.	Diff. Inv.	mc 47 30		
					g h	g h		
			sc.1 sc.2	sc.1 sc.2	sc.2 sc.2	sc.2 sc.2		
			6.1	5.9				
6.00	1 1	043 5	5.8	5.6	12.60 1 1 / 12.5 12.7	12.30 0 0 / 12.3 12.3	12.445	15 15 - 602
			7.4	7.6				
7.50	1 1	-052 6	7.1 B	7.3	13.45 0 1 / 13.4 13.5	13.40 0 0 / 13.4 13.4	13.42	03 02 - 644
			9.0	8.8				
8.92	08 07	-089 8	8.7 8.4	8.5 8.9 8.85 0 1	n.s n.s.	n.s. n.s.	,	,
10.40	1 1	-166 9	10.5	10.3				
10.65	0 1	-177 10	10.6	10.7				
			11.45 1 2					
11.52	07 08	-216 11	11.3 11.6	11.6				
			11.65 0 1	11.80 1 1				
11.72	07 08	-214 12	11.6 11.7	11.7 11.9				
			12.40 0 0	12.55 1 0				
12.48	08 07	-240 13	12.4 12.4	12.5 12.6				
			12.60 1 1	12.65 0 1				
12.62	02 03	-238 14	12.5 12.7	12.6 12.7				
			13.20 0 0	13.40 0 0				
13.30	10 10	-266 15	13.21 13.21	13.4 13.4				
			13.50 0 0	13.50 0 0				
13.50	00 00	-256 16	13.5 13.5	13.5 13.5				
				13.70 0 0				
13.65	05 05	-261 17	13.6? t.f.	13.7 13.7				
,	,	18	t.f. 1	t.f. t.f.				
,	,	19	n.s. n.s.	n.s.				
		20						
		23						
		25						
		26						
		27						
		28						
		29						
		30						

11—

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1915phae.proj.10700

Thursday December 2, 1915

Scale R

Series 190 YELLOW

Mc 47 30 Iou Color Index 3 01 + 74.0

	Dec.1	Dec.2		Cw.	Magn.	Diff. Inv. Dec.2 q	Dec.2 h
1		10.4		-.167	8.73	n.s.	n.s.
2	9.1 8.8	9.21	9.15 ± 0	-.114	8.01	n.s.	n.s.
3		9.7	9.8 9.75 ± 0	-.139	8.36	n.s.	n.s.
4		11.95 12 12.1 11.8		-.224	9.71		
5		11.98 2 1 11.8 12.1		-.224	9.71		
6		12.75 0 1 12.8 12.7		-.248	10.27		
7		13.40 from 13.3 13.5	± 1	-.265	10.75		
8		7 n.s.					
9		n.s.					
10		n.s.					
11							
12							
13							
14							
15							

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Thursday December 2, 1915

Scale R — Series 190 — YELLOW — Copied.

*me 47 3 W' — D 3 — 5 ~~10~~ 90 – 150° — Alt – 11

		sc.1	sc.2			Diff. g sc.1	Diff. h sc.2		
	1	7.7 7.4		-0.048	7.22	13.50 ⊥ 1 13.4	13.6	-6.40	7.10
Edge	2	t.p.		.	.	t.p.	t.p.		.
"	3	t.p.		.	.	t.p.			.
	4	6.1 5.8		0.30	6.40	t.p.	12.4	-6.06	6.34
	5	7.7 7.4		-0.048	7.22	t.p.	t.p.		.
"	6	t.p.		.	.	t.p.	t.p.		.
	7	t.p.		.	.	t.p.	t.p.		.
	8	6.6 6.3	B.	0.06	6.66	t.p.	t.p.		.
	9	7.9 7.6	B	-0.57	7.33	t.p.	t.p.		.
	10		10.1	-.152	8.58				
	11	9.0 8.7	8.8 8.90	1 ⊥	-0.95	7.95			
	12	7.7 7.4	*? 8.1		-0.48	7.22			
	13		9.6		-.133	8.27			
	14		11.7		-2.16	9.54			
	15		11.7		-2.16	9.54			
	16	12.30 ⊥ 1 12.2	12.4		-.234	9.96			
	17	12.10 00 12.1	12.1		-.228	9.82			
	18	13.40 00 13.4	13.4		-.265	10.75			
	19	t.p.	t.p.		.	.			
	20	12.45 10 12.5	12.4		-.239	10.06			
	21	13.35 01 13.4	13.3		-.263	10.72			
	22	n.s.	n.s.		.	.			
	23	13.9?	7?		.	.			
	24	7	7		.	.			
	25	n.s.	n.s.		.	.			
	26	n.s.			.	.			

Examined Dec. 7, 1915.

reject "8.7". wrong star?
Measure 7.4 on 1st scale is correct.
Q.

* All images are elongated, making comparison with scale difficult.

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Thursday December 2, 1915

Plt 233

Scale R

Series 190. YELLOW

Copied by W.S.L.

Mc 47321 Pleiades 3 42 + 23.8 Alt. +.08

	sc.1	sc.2		Cw.	Magn.	Diff. Im. a sc.1 sc.2	Diff. Im. b sc.1 sc.2				
1	B.					6.7 5.9 6.30 1 1	6.4 6.1	(eta) 0.20	6.50	-3.74	2.76
2	B					7.6 7.3 7.65 0 1	7.7 7.4	-0.47	7.18	"	3.44
3	B					7.7 7.4 7.75 1 0	7.8 7.5	-0.48	7.27	"	3.53
4	B					7.8 7.5 7.95 2 1	8.1 7.8	-0.60	7.35	"	3.61
5	B.					8.6 8.2 8.55 1 0	8.6 8.3	-0.88	7.67	"	3.93
6	B					8.8 8.5 8.75 0 1	8.7 8.4	-0.97	7.78	"	4.04
7	B					8.4 9.8 9.85 0 1	9.9	-1.42	8.43	"	4.69
8	B					10.6 10.55 0 1	10.5	-1.73	8.82	"	5.08
9	4.6 4.3			.		11.2 11.30 1 1	11.4	-2.03	9.27	"	5.53
10	6.0 5.7			0.34	6.34	12.2 12.20 0 0	12.2	[-2.38] -5.99	6.21 9.85 1006	"	6.11
11	6.7 6.4			0.02	6.72	12.4 12.45 0 1	12.5	[-2.39] -6.07	6.38	"	6.32
12	6.9 6.6			-.008	6.82	12.9 12.85 1 0	12.8	[-2.50] -6.20	6.65 10.35	"	6.61
13	7.5 7.2			-0.38	7.12	12.8 12.95 2 2	13.2	[-2.52] -6.24	6.71 10.43	"	6.69
14	7.7 7.4			-.048	7.22	13.3 13.30 0 0	13.3	[-2.61] -6.34	6.96 10.69	"	6.95
15	7.9 7.6	B.		-.057	7.33	t.p.	13.4	-6.37	7.03		
16	7.9 7.6	B		-0.57	7.33	13.7 13.55 1 2	13.4	-6.41	7.14		
17	8.7 8.4	8.1	8.70 0 0	-.095	7.75	t.	n.s.	.	.		
18	8.9 8.6	8.9	8.90 0 0	-.104	7.86	n.s	n.s.	.	.		
19		10.1		-.153	8.57	n.s		.	.		
20		9.8		-.140	8.40	n.s.		.	.		
21		9.6		-.132	8.28	n.s.		.	.		
22		10.2	10.1	10.15 0 1	-.156	8.59					
23		10.6	10.7	10.65 0 1	-.178	8.87					
24		10.4	10.5	10.45 0 1	-.169	8.76					
25		10.8	10.7	10.75 0 1	-.182	8.93					
26		10.0	10.1	10.05 0 1	-.150	8.55					

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Thursday December 2, 1915.

Scale R

Series 190-YELLOW

	Mc 47 32	Pleiades	cont-	Alt. +.08
	RC 2 RC 2			
27	12.00 11.9 12.1 L1	-2.26	9.74	
28	12.50 12.5 12.5 00	-2.41	10.09	
29	11.30 11.3 11.3 00	-2.03	9.27	
29a	12.30 12.2 12.4 L1	-2.34	9.96	
30	12.80 12.1 12.9 L1	-2.49	10.31	
31	" "	"	"	
32	m.s.	"	"	
33	m.s.	"	"	
34	m.s.	"	"	
37a	m.s.	"	"	

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Scale R

Series 190 - YELLOW

Copied.

Alt +12

Mc 4733 B2 4 +45.0°

Diffrdm.

	sc.1	sc.2		Cw.	Magn	q sc.2	h sc.2		
						13.30 0 0			
1	7.4 7.1			-0.34	7.06	13.3	13.3	-6.34	6.96
	7.9					13.60 1 1			
2	7.6	B		-0.56	7.34	13.5	13.7	-6.43	7.17
3	8.7 8.4	8.5	8.60 1 1	-0.90	7.70	7	7	.	.
4	8.0 7.7	B		-.063	7.37	t.p.	t.p.	.	.
5	9.0 8.7	9.7[3]	9.15 2 1	-1.16	7.99	n.s.	n.s.	.	.
6		9.4		-1.25	8.15	n.s.	n.s.	.	.
7	7.9 7.6	B.		-0.56	7 6.34	t.p.	t.p.	.	.
8		9.9		-.145	8.45				
9		10.2		-.158	8.62				
10		10.4		-.168	8.72				
11		9.4		-1.25	8.15				
12		11.3		-2.03	9.27				
13		10.9		-.188	9.02				
14		10.9		-.188	9.02				
15		12.2		-2.31	9.89				
16		10.7		-.180	8.90				
17		11.5		-2.09	9.41				
18		12.4		-2.38	10.02				
			13.20 1 1						
19		13.8	13.3	-2.59	10.61				
			12.25 1 0						
20		13.3	13.2	-2.60	10.65				
			13.40 0 0						
21		13.4	13.4	-2.65	10.75				
			13.60 1 1						
22		13.7	13.5	-2.70	10.90				
			12.50 0 0						
23		12.6	12.5	-2.41	10.09				
			12.50 1 1						
24		12.4	12.6	-2.41	10.09				
			13.50 0 0						
25		13.5	13.5	-2.67	10.83				
26		t.p.	t.p.	,	,				
27		n.s.	n.s.	,	,				

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Thursday December 2, 1915.

Scale R Series 190. YELLOW Copied.

mc4734 Q.1 12 +75° Alt +07

Diffr Inv.

	Sc.1	Sc.2				g Sc.2	R Sc.2		
1	7.9 1.6			-0.056	7.34	t.f.	t.f.		
2	7.7 1.4			-0.048	7.22	13.3	13.3	13.30 00	- 6.34 6.96
3	6.7 6.1	B.		0.15	6.55	12.4	12.3	12.35 0.1	- 6.03 6.32
4	6.8 6.5	B		-0.004	6.76	12.7	12.6	12.65 1.0	- 6.45 6.80
4a	8.6 8.3	8.1	8.65 0.1	-0.091	7.74	″	″		″ ″
4b	6.6 6.3	B		0.05	6.65	t.f.	12.5		- 6.09 6.41
5		10.1		-1.53	8.57	n.s.	n.s.		″ ″
6		10.1		-1.53	8.57				
7		10.2		-1.59	8.61				
8		9.7		-1.37	8.33				
9		9.9		-1.45	8.45				
9a	9.1 8.8	9.2	9.15 1.0	-1.15	8.00	n.s	n.s.		
9b		11.2		-1.99	9.21				
10		11.3		-2.03	9.27				
11		11.1		-1.96	9.14				
12		12.3		-2.34	9.96				
13		10.9		-1.88	9.02				
14		12.65 0.1 12.6	12.7	-2.46	10.19				
15		12.40 0.0 12.4	12.4	-2.38	10.02				
16		11.30 0.0 11.3	11.3	-2.03	9.27				
17		13.20 0.0 13.2	13.2	-2.59	10.61				
18		13.45 0.1 13.4	13.5	-2.67	10.78				
19		13.60 1.1 13.5	13.7	-2.70	10.90				
20		n.s.	n.s.	″	″				
21		t.f.		″	″				
22		n.s.		″	″				

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1915phae.proj.10700

Wednesday December 8, 1915

Scale R
1:40

Series 551-

Mc 9313 Pole-

Mc9318?

9319 P.C.

	Mc 9313 sc.1	Mc 9313 sc.2	Mc9318? sc.1	Mc9318? sc.2	P.C.	9319 P.C. sc.1	9319 P.C. sc.2	Diff
5					7.9 7.6 7.85 1 0	7.8 7.5		-.136
6					8.9 8.6 8.85 1 0	8.8 8.5		-1.74
8	5.+				10.5 10.45 1 0		10.4	-2.22
9					Diff 11.4 11.45 0 1		11.5	-2.62
10	6.2 5.9		6.2 5.9		6.20 0 0 2.82	11.7	t/p	-2.68
11	7.2 6.9		6.8 6.5		7.00 2 2 2.55	12.6 12.50 1 1	12.4	-2.95
12	7.6 7.3	C.	7.6 7.3		7.60 0 0 2.26	12.8 13.2 13.00 2 2	13.1	13.05 05 05 -3.19
13	7.9 7.6	8.21 8.05 1 2	7.9 7.6		7.98 07 08 2.32	13.7 13.6 13.65 1 0	13.5	13.58 07 08 -3.28
14	8.6 8.3	8.4 8.50 1 1	8.5 8.2		8.50 00 00 2.15	↓	13.7	-3.05
15	9.0 8.7	9.3 9.15 2 1	8.9 8.6		9.02 13 12 2.06			
16		9.5		9.6	9.55 1 0 1.85			
17		10.2		10.1	10.15 0 1 1.48			
18		10.7		10.4	10.55 1 2 1.51			
19		10.9		10.6	10.75 1 2 1.67			
20		11.40 0 0 11.4 11.4		11.3	11.35 05 05 1.38			
21								
22								
23		12.35 1 0 12.3 12.4		12.20 0 0 12.2 12.2	12.28 07 08 1.06			
24								
25		12.80 1 1 12.9 12.7		12.70 0 0 12.7 12.7	12.75 05 05 1.12			
26		13.4		13.40 0 0 13.4 13.4	13.40 00 00 0.93			
27		13.60 0 0 13.6 13.6		13.75 1 0 13.7 13.8	13.68 08 07 1.01			
28		t/p t/p		13.90 1 1 13.8 14.0	13.90 . 2 1.21			
29		n.s. 2		n.s. n.s.	. .			
30		n.s.			. .			

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Wednesday December 8, 1915

Scale R Series 551-

mc9313 Pole. mc9319

	g		h		g		h				
	Rc.1	Rc.2	Rc.1	Rc.2	Rc.1	Rc.2	Rc.1	Rc.2			
5	7.9 1.6 8.7	7.90	7.9 1.6 8.5		7.5 1.5 8.5	7.80	7.8 1.5 8.4		7.85	05	05	-.136
6	8.4	8.60	1½	8.2	8.2	8.45	10	8.1	8.52	08	07	-.141
8	10.4	10.35	0 1½	10.3	10.3	10.30	0 0	10.3	10.32	03	02	-.209
9	11.1	11.00	1½	10.9	11.1	11.15	½ 0	11.2	11.08	08	07	-.225
10	11.5	11.45	1 0	11.4	11.4	11.40	0 0	11.4	11.42	03	02	-.240
11	t.f.			12.3	t.f.			t.f.	12.80	a		-.275
12	12.6	12.50	1½	12.4	t.f.			12.4	12.45	05	05	-.259
13	13.4	13.30	1½	13.2	13.2	13.20	0 0	13.2	13.25	05	05	-.295
14	t.f.			13.4	t.f.			t.f.	1340	a		-.275
15	t.f.			t.f.	t.f			t.f.	.			.
16					n.s.			n.s.	.			.
17												
18												
19												
20												

2.59

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Wednesday, December 8, 1915.

Scale B

Series 551

* Mc 9ᵉ 14 Carte 3 − 16.5.

	sc.1	sc.2	Diff. Im.	F.C.
			g h	sc.2
1	B.		$\frac{1}{2}$	$\frac{1}{2}$
2	B			
3	7.1 6.8	7.7	poor	poor
4	f.f.			
5	t.f.			
6	t.f.			
7		t.f.		
8		t.f.		
9		t.f.		
10		t.f.		
11				
12		Ell		
13		$\frac{1}{2}$		
14		poor		
15				
16				
17				
18				
19				
20				

* Images are very poor. All stars appear hazy.
Compare too poor to compare with scale.

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1915phae.proj.10700

Wednesday December 8, 1915

Scale Series 551-

	mc9315	D2	3-15°
			P.C.
	sc.1 sc.2		sc.1 sc.2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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16			
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18			
19			
20			
21			
22			
23			
24			
25			
26			

too poor to measure.
Reject. H.S.L. Dec 8, 1915

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1915phae.proj.10700

Wednesday December 8, 1915

Scale Series 551 -

Mc 9315

sol

not to be meas.
Too poor.
H.S.L. Dec 8, 1915.

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1915phae.proj.10700

Wednesday December 8, 1915

Scale

Series 551-

	Mag 31 05	D 21	Diffr. Inn.
	20.1		
1			
2			
3			
4			
5			
6			
7			
8			
9			not to be meas.
10			for focus.
			H.S.L. Dec 8, 1915
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

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1915phae.proj.10700

Wednesday December 8, 1915

Scale R

Series 551-

MC9316 Carte 3h - 21.5

Sc.1 Sc.2

1
2
3
4
5
6 Slit poor. Need not be measured.
7 H.S.L. Dec-8-1915
8
9
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Card.

Scale R Series 551- Copied.

* Mc 9317 C 2 - 3 + 15°

Alt + 16

	sc.1				sc.1 sc.2	Cw	Magw
					8.6 8.5	-1.72	7.08
2					9.4	-1.90	7.50
3					9.8	-2.02	7.78
4					10.4	-2.23	8.17
5	t.f.				t.f.	.	.
6	t.f.				t.f.	.	.
7	t.f.				11.7?	-2.71	8.99?
8	t.f.				t.f.	.	
9	5.9 5.6		2.86	8.76	t.f.	.	
10	6.6 6.3		2.56	9.16	12.4	-2.96	9.44
11	6.8 6.5		2.59	9.39	t.f.	.	
12	7.4 7.1		2.42	9.82	t.f.	.	
12a	7.6 7.3		2.26	10.26			
13	7.9 7.6	B.	2.28	10.18	t.f.	.	
14	8.6 8.3	8.2 8.40 2 2	2.16	10.56	t.f.	.	
15	8.7 8.4	8.5 8.60 1 1	2.11	10.71	f.	.	
16	8.7 8.4	9.1 8.90 2 2	2.03	10.93			
17		9.3	1.90	11.20	~~13.3~~		
18		9.9 9.1 9.80 1 1	1.76	11.56			
19		10.2	1.64	11.84			
20		10.6	1.52	12.12			
21		10.8	1.48	12.28			
22		11.15 1 0 11.1 11.2	1.38	12.53			
23		11.40 1 1 11.3 11.5	1.31	12.71			
24		11.45 1 0 11.5 11.4	1.30	12.75			
25		11.90 2 2 11.7 12.1	1.20	13.10			

* Images are poor. Difficulty in comparing with scale.

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1915phae.proj.10700

Wednesday December 8, 1915

Scale

Series 551-

MC9317 C2 cont-

	AC2	AC7				
26	12.4	10.9				
27	13.1	13.1	13.10	0 0	1.00	14.10
28	13.3	13.3	13.30	0 0	1.00	14.30
29	〃	〃	〃	〃	〃	〃
30	m.s.		〃	〃	〃	〃
31	m.s.		〃	〃	〃	〃

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Mc9317 C2 Diffr. Im.

	9		h			
	sc.1	sc.2	sc.1	sc.2		
1	t.f.		t.f.		.	
2	t.f.		t.f.		.	
3	9.0 8.7	9.05	0	1	9.1	-.159 7.46
4	10.1	10.10	0	0	10.1	-.194 8.16
5	t.f.		t.f.		.	,
6	10.5	10.55	1	0	10.6	-.210 8.45
7	11.3	11.30	0	0	11.3	-.234 8.96
8	t.f.		t.f.		.	,
9	t.f.		t.f.		.	,
10	t.f.		t.f.		.	,
11	t.f.		t.f.		.	,
12	12.8		t.f.		-.278	10.02
12a	t.f.		13.4		-.282	10.58
13	t.f.		13.3		-.283	10.47
14	t.f.		t.f.		,	,
15	f		f.		,	,
16						
17						
18						

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1915phae.proj.10700

Wednesday December 8, 1915

Dale R. Series 551 – Copied.

Mc9318 R W Tauri 3 50 + 2 5 Alt + 21

	sc.1	sc.1 sc.2			Diffn.	P.C. sc.1
a	B				8.5 8.4 – 1.50 7.25	8.8 – 1.80 7.30
c	B.				t.f. . .	10.2 – 2.17 8.03
c'	B				t.f. sup. .	10.4 – 2.34 8.36
b	B				t.f. . .	10.4 – 2.23 8.17
d	B				t.f. t.f. .	11.3 – 2.56 8.74
e	B				t.f. 11.3 – 2.34 8.96	11.1 – 2.70 9.00
f	B				t.f. t.f. .	12.2 – 2.89 9.31
g	6.3		2.65	9.25	t.f. t.f. .	12.3 – 2.92 9.38
g'	6.5		2.59	9.39	ell .	12.5 – 2.99 9.51
k	7.5 B.		2.31	10.11	ell .	13.5 – 3.23 10.27
l	7.1 8.0	8.00 o o	2.26	10.26	poor .	½ . .
m	8.6 8.9	8.90 o o	2.03	10.93		
h	8.5 9.1	8.95 ± 1	2.01	10.96		
o	9.8		1.76	11.56		
n	9.9		1.74	11.64		
n'	10.1		1.68	11.78		
p	10.3 10.7	10.50 2 2	1.55	12.05		
q	sup. sup.		,	,		
s	11.8 11.7	11.75 0 1	1.22	12.97		
r	t.f. t.f.		,	,		
t	t.f. t.f.		,	,		
u	13.1 12.9	13.00 1 1	1.01	13.01		
w	½ 13.8?		1.10	14.90?		
x	½ ½		,	,		
y	~~12.8~~ n.s.		,	,		
z	~~13.6~~ n.s.		,	,		

Var. 103

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Wednesday December 8, 1915

Scale R — Series 651 — Copied Mt 6:113

Mc 9318 — R W Sawin — 3 50 +27.5 cont. — alt. +.21

Ref Seq.		sc.1	sc.2		Cm.	Magn	g	h		Cm.	Magn	sc.2	Cm.	Magn
		5.7												
	1	5.4			.		10.8	10.6	10.70 1 1	−2.15	8.55	11.2	−2.53	8.67
		6.7												
	2	6.4			2.62	9.32	11.9	t.p.		−2.51	9.39	t.p.	.	.
		7.2												
	3	6.9			2.48	9.68	12.4	12.5	12.45 0 1	−2.69	9.76	12.9	−3.13	9.77
		7.7												
	4	7.4	B.		2.34	10.04	12.8	t.p.		−2.77	10.03	13.21	−3.21	9.99
		8.4												
	5	8.1	8.2	8.30 1 1	2.19	10.49	13.4	13.4	13.40 0 0	−2.82	10.58	13.6	−3.21	10.39
		8.7												
	6	7.9	8.1	8.15 0 1	2.23	10.38	13.4	13.4	13.40 0 0	−2.82	10.58	14.0	.	.
		8.9												
	7	8.6	9.0	8.95 1 0	2.01	10.96	t.p.	t.p.		.	.	surf.	.	.
	8		9.3		1.90	11.20						m.s.	.	.
	9		10.4		1.59	11.99								
	10		10.8		1.48	12.28								
	11		11.5		1.30	12.80								
	12		11.7		1.25	12.95								
	13		12.2		1.13	13.33								
			12.45 1 0											
	14		12.5	12.4	1.09	13.54								
			12.80 0 0											
	15		12.8	12.8	1.02	13.82								
			13.15 1 0											
	16		13.1	13.2	1.00	14.15								
			13.45 0 1											
	17		13.4	13.5	1.01	14.46								
			13.60 1 1											
	18		13.5	13.7	1.04	14.64								
	19		↓	↓	.	.								
	20		↓	↓	.	.								

Remeas Jan. 20, 1916

t 12.3 poor

u 12.9

w 13.4 13.5

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Thursday December 9, 1915.

Scale R

.0:45

Series 513.

mc 8834 Pole.

	mc 8839. sc.1	sc.2		mc 8839. sc.1	sc.2		P.C.			8839 sc.1	sc.2	
5										9.1 8.8	9.40 3 3	9.7 -2.91
6										10.3	10.35 1 0	10.4 -3.24
8										12.1	11.90 2 2	11.7 -3.67
9										8. 8.	12.5 12.55 1 0	12.6 -3.72
10	7.5 7.2			7.7 7.4	Q.		7.60	1	1 1.42	13.1		t.p. -4.08
11	8.1 7.8	Q		8.2 7.9	8.3		8.25	0	1 8.18 0 8 0 7 1.37	t.p.		13.5 -3.95
12	8.6 8.3	8.5	8.55 0 1	8.8 8.5	8.8		8.80	0	0 8.68 1 3 1 2 1.18	t.p.		t.p. .
13	9.1 8.8	9.2	9.15 1 0		9.3		9.22	0	7 0 8 1.08	n.s.		t.p. .
14		9.8			9.9		9.85	0	1 0.80			t. .
15		10.6			10.5		10.55	0	1 0.53			
16		10.8			10.7		10.75	0	1 0.65			
17		10.9 1			11.3		11.10	2	2 0.53			
18		11.80 0 0 11.8 11.8			11.75 0 1 11.8 11.7		11.78	0	2 0 3 0.28			
19		12.00 1 1 12.1 11.9			12.00 1 1 12.1 11.9		12.00	0	0 0 0.42			
20		12.45 0 1 12.4 12.5			12.40 0 0 12.4 12.4		12.42	0	3 0 2 0.31			
23		13.20 1 1 13.3 13.1			13.05 1 2 12.9 13.2		13.12	0	8 0 7 0.22			
25		13.40 0 0 13.4 13.4			13.60 1 1 13.7 13.5		13.50	1	0 1 0 0.37			
26		13.80 0 0 13.8 13.8			1 1.		1380	0	2 . 0.53			
27		~~13.9~~ 1			n.s		.		.			
28		1.					.		.			
29		n.s					.		.			
30												

rej 13.9 = too faint.

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Thursday December 9th 1915

Scale R

Series 513-

	mc 8834 g sc.1	mc 8834 g sc.2	mc 8834 h sc.1	mc 8834 h sc.2	Pole 8839 g sc.1	Pole 8839 g sc.2	Pole 8839 h sc.1	Pole 8839 h sc.2	Diffr. Inn.			
5	8.2	8.50	0 0	8.5	8.1	8.40	0 0	8.1	8.45	05	05	-.196
6	t.f.			9.7	9.1			t.f.	9.55	2	1	-.244
8	10.9	11.05	1 2	11.2	10.9	11.00	3 3	11.3	11.02	03	02	-.279
9	t.f.			11.9	t.f.			12.1	12.00	1	1	-.317
10	12.3	12.35	1 0	12.4	12.4	12.35	0 1	12.3	12.35	00	00	-.333
11	12.9	12.90	0 0	12.9	12.8	12.85	0 1	12.9	12.88	02	03	-.333
12	t.f.			13.4	13.1	13.20	1 1	13.3	13.30	10	10	-.344
13	13.5	13.60	1 1	13.7	t.f.			t.f.	13.60	4	1	-.330
14	t.f.			t.f.	↓			↓	.			.
15	n.s.			n.s.					.			.
16												
17												
18												
19												
20												
23												
25												
26												
27												
28												
29												

11:12

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Scale R

Series 513. Copiet 9a:19

Mc 8835 N.G.C. 6866. alt. corr. +23

							Diffr. Im.					P.C.		
		Rc.1	Rc.2		Cw.	Magn	q Rc.2	h Rc.2				Rc.2	Cw.	
	1	5.3 (5.6)			.		10.9	11.1	11.00	⊥ 1	-3.00	11.3	-3.51	7.79
red star?	2	5.4 (5.7)			.		10.9	10.9	10.90	0 0	-2.98	11.6	-3.60	8.00
	3	6.9 (7.2)			.		12.4	12.4	12.40	0 0	-3.29	12.8	-3.90	8.90
	4	7.6 (7.9)	B.		1.36	9.26	12.8	12.9	12.85	0 1	-3.36	13.21	-3.97	9.23
	5	8.9 (9.2)	9.3	9.25	0 1 1.01	10.26	t.p.	13.9		.	.	n.s.	.	.
	6		9.9		0.80	10.70	n.s.	n.s.		.	.			
	7		10.5		0.65	11.15								
	8		10.8		0.58	11.38								
	9		10.8	10.9	10.85	0 1 0.57	11.42							
	10		11.1	10.9	11.00	⊥ 1 0.54	11.54							
	11		11.5	11.7	11.60	⊥ 1 0.44	12.01							
	12		11.7	11.7	11.70	0 0 0.40	12.10							
	13		12.4	12.2	12.30	⊥ 1 0.33	12.63							
	14		12.7	12.7	12.70	0 0 0.30	13.00							
	15		f.	f.	.	.	.							
	16													
	17													
	18													
	19													
	20													

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Me8836 Carte 20 +46.5

Diff Dm. Alt +23 PC.

	Sc.1	Sc.2		Cw.	Magn.	q	h				Sc.2		
1	5.5	5.6	5.85 0 1	.		11.4	11.4	11.40	0 0	-3.10	8.30	11.7	-3.63 8.07
red star? 2	6.3	6.1	6.50 1 1	.		11.3	11.5	11.40	1 0	-3.10	8.30	12.2	-3.77 8.43
3	4.5			1.40	9.20	12.5	12.5	12.50	0 0	-3.30	9.20	13.2	-3.96 9.24
4	4.6	8.1	8.00 1 1	1.38	9.38	12.8	12.8	12.80	0 0	-3.36	9.44	13.3	-3.98 9.32
5	8.6	8.8	8.85 1 0	1.13	9.98	t.p.	13.4			-3.36	10.04	13.7	, ,
6		9.3		0.99	10.29	t.p.	13.7?			,		n.s.	, ,
7		9.9		0.80	10.70	‡	‡.			,			
8		10.2		0.71	10.91								
9		10.4		0.67	11.07								
10		10.9		0.55	11.45								
11		11.4	11.4 (11.40 0 0)	0.46	11.86								
12		12.1	12.2 (12.15 1 0)	0.34	12.49								
13		12.4	12.2 (12.30 1 1)	0.33	12.63								
14		12.5	12.4 (12.45 1 0)	0.30	12.75								
15		12.8	12.8 (12.80 0 0)	0.29	13.09								
16		13.4	13.4 (13.40 0 0)	0.34	13.74								
17		‡.	‡.	.	.								
18		‡	‡.	,	,								
19		n.s.		,	,								
20		n.s.		,	,								

‡

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Thursday December 9. 1915

~~δ Cephei~~ P

Series 513 -

Mc 8831 N.G.C. 6885 alt. corr. +.20

	Scr.1	Scr.2				Diffr. Inm. Scr.1	Scr.2				P.C. Scr.2		
1	B			.		8.8	t.f.		−2.30	6.80	9.2	−2.86	6.34
2	B			.		9.6	9.4	9.50 1 L	−2.48	7.02	10.1	−3.16	6.94
3	B.			.		11.4	11.5	11.45 0 1	−3.10	8.35	11.7	−3.63	8.07
4	6.9 (7.7)	B		.		12.2	12.4	12.30 1 1	−3.28	9.02	12.4	−3.81	8.59
5	8.2 (8.5)	8.1	8.30 2 2	1.29	9.59	13.2	t.f.		−3.37	9.83	t.f.	.	.
6	8.9 (9.2)	9.3	9.25 0 1	1.01	10.26	t.f.	t.f.		.	.	.	.	.
7		10.1		0.74	10.84	n.s.	n.s.		.	.	.	.	.
8		10.3		0.69	10.99								
9		10.3 (10.35 L 0)	10.4 (10.90 0 0)	0.68	11.03								
10		10.9	10.9 (11.55 0 1)	0.56	11.46								
11		11.6	11.5 (12.00 L 1)	0.42	11.97								
12		11.9	12.1 (12.30 L 1)	0.36	12.36								
13		12.2	12.4	0.33	12.63								
14		t.	13.f?	0.42	14.12?								
15		t.	f.	.	.								
16													
17													
18													
19													
20													

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Thursday December 9, 1915

Scale R — Series 513 — Copied 9a:29

Mc 8838 — n.g.c. 6910 — 20 24 + 40.0 — Alt. corr. +.23

	Pc.1	Pc.2		Cw.	Magn.	Diffr. Inn. a Pc.2	Diffr. Inn. b Pc.2	Cw.	Pc. Pc.2	
1	B. 5.8			.		10.3	10.3	10.30 0 0	-.280	7.50	10.4	-.326	7.14
2	5.5			.		11.1	11.2	11.15 ± 0	-.303	8.12	11.4	-.354	7.86
3	6.6 6.3			.		11.5	11.6	11.55 ± 0	-.312	8.43	12.2	-.378	8.42
4	7.3 4.0	B.		.		12.1	12.2	12.15 ± 0	-.325	8.90	12.9	-.391	8.99
5	8.4 8.1	8.4	8.40 0 0	1.26	9.66	13.2	13.1	13.15 0 ±	-.337	9.78	13.5	-.400	9.50
6	8.9 8.6	8.9	8.90 0 0	1.13	10.03	13.5	13.5	13.50 0 0	-.335	10.15	↓	″	″
7		10.3		0.69	10.99	n.s.	n.s.	″	″				
8		10.5		0.65	11.15								
9		10.7		0.60	11.30								
10		10.9		0.56	11.46								
11		11.35 0 ± 11.4	11.3	0.48	11.83								
12		11.50 1 ± 11.6	11.4	0.44	11.94								
13		12.40 0 0 12.4	12.4	0.31	12.71								
14		13.30 ± 1 13.2	13.4	0.32	13.62								
15		~~13.5~~ def?											
16													
17													
18													
19													
20													

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Thursday
Wednesday December 16 ~~15~~, 1915

Scale R

Series 466 - YELLOW

~~2:16~~ 9:15 Interrupted.

Mc8024 Pole.

Mc8029

	Mc8024 sc.1	Mc8024 sc.2	Mc8029 sc.1	Mc8029 sc.2		Qc. sc.2	Qc. sc.2
5	B.		B			10.6	11.1
6	43 4.0		47 4.4?		4.50 2 2	11.5	11.6
8	6.5 6.2		6.4			12.9	12.6
9	7.7 7.4		8.2 7.9	B.	7.95 3 2	13.4	13.5
10	7.9 7.6	B.	8.6 8.3	8.5 8.55 0 1	8.22 32 33	13.4	n.s.?
11	8.8 8.5	8.4 8.60 2 2	9.9		9.25 65 65	13.9? v.f.	
12	9.2		10.2		9.70 5 5	n.s.	
13	10.3		10.1		10.50 2 2		
14	10.6		10.8		10.70 1 1		
15	11.3		11.8	12.10 0 0	11.55 3 2		
16	11.6	11.70 0 0	12.1	12.1 12.50 0 0	11.85 25 25		
17	11.7	11.7 12.40 1 1	12.5	12.5 13.25 1 0	12.10 40 40		
18	12.3	12.5 12.70 ?, 9.0	13.3	13.2 13.35 1 2	12.82 42 43		
19	12.7	12.7? 13.35 1 0	13.5	13.2 13.60 1 1	13.02 32 33		
20	13.3	13.4 14.00 0 0	13.7	13.5	13.48 13 12		
23	14.0	14.0?	1	1	14.00 2 1		
25	n.s.						
26							

Delay plotting (HSD)

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Thursday
~~Wednesday~~ December 16, 1915

Scale R

Series 466 - YELLOW

Mc8024

	g		h		Pole.	Diffr. Im. g	Diffr. Im. h
	sec.1	sec.2	sec.1	sec.2		sec.2	sec.2
5	10.6		10.4			10.6	10.6
6	11.3		11.3			11.8	11.7
8	12.5		12.4			12.8	12.7
9	13.2	13.5	13.8	13.8		13.1	def?
10	13.8		13.8			v.f.	14.0
11	14.0?		14.0				
12	n.s.						
13							
14							
15							
16							
17							
18							
19							
20							

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Thursday
~~Wednesday~~ December ~~15~~ 16, 1915

Scale R

~~Scale~~ Series 466 - YELLOW

Mc 8025 D3. 5 - 15

		sc.1	sc.2	P.C. sc.1	sc.2
	1	B.		11.4	
	2	B		10.4 edge	
extreme edge.	3	B		11.3	
	4	B.		10.6	10.9
	5	B.		12.2	
	6	B.		12.3 edge	
	7	B		12.2	
	8	3.9 (Bm)		11.2	
	9	5.3	B.	12.1	
	10	4.8.	8.1	13.2	
	11	6.2	B.	12.8	6
	12	5.3	B.	11.8	
	13	7.1	B.	13.3	
	14		9.4	n.s.	
	15		9.6	n.s	
	16		9.7 9.9		
	17		10.1		
	18		11.1		
	19		9.9		
	20		10.4 10.5		
	21		10.6 10.8		
	22		13.2 13.1		
	23		12.3 12.2		
	24		11.8 t.f. t.f.		
	25		13.4 13.7		
	26		13.4 13.3		

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~~Wednesday~~ Thursday December ~~15~~ 16, 1915

Scale Series 466 YELLOW

MC.8025 Cont. D3. 5-15

	sc.1	sc.2	sc.1
C		13.1	13.1
27		13.8	13.7
28		~~13.5~~ ? v.p. rej. too poor	
29		J.	
30		m.s.	

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Thursday
~~Wednesday~~ December 16, 1915

Scale R

Series 466 YELLOW

Mc 80 25 D3 Diffr. Im.

	g		h	
	sc.1	sc.2	sc.1	sc.2
1	11.4		11.3	
2	Elong.		t.p.	
3	v.f.		t.p.	
4	10.3		10.5	
5	12.4		12.1	
6	t.p.		t.p.	
7	12.4		t.p.	
8	10.8		10.6	
9	11.6		11.5	
10	13.4		13.3	
11	12.4		t.p.	
12	11.4		11.7	
13	13.1		12.6	
14	13.8 poor		f.	
15	f.		t.p.	
16	n.s.		14.0?	
17			n.s.	
18	n.s.			
19				
20				
21				
22				

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1915phae.proj.10700

~~Wednesday~~ Thursday December ~~15~~ 16, 1915

Scale B — Series 466 YELLOW

	MC 8026	Neb. Orion		
			Diffr. Inn.	P.C.
	sc.1 sc.2		sc.2 sc.2	sc.2
1	7.5 B.		t.p. t.p.	13.1
2	7.8 8.1		t.p. 13.2	13.4
3	8.5 9.1		t.p. 13.4	13.1
4	10.1		n.s. n.s.	n.s.
5	11.2			
6	11.1 11.1		n.s. n.s.	
7	10.5 10.5			
8	12.9 13.2			
9	13.4 13.4			
10	13.4 13.4			
11	13.3 t.p.			
12	13.1 13.1 ? poor			
13	t. t.			
14	n.s			
15	n.s.			
16				
757	9.9		n.s. n.s.	
554	B.		12.2 12.2	12.5
924	8.5 8.1		t.p. t.p.	13.4
776	10.0		n.s. n.s.	n.s.
497	6.2 B.		12.5 12.4	12.5
303	10.4		n.s. n.s.	n.s.
a	12.5			
b	13.5			
c	t.			
d	13.9			
e	13.6			
f	n.s.			

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1915phae.proj.10700

~~Wednesday~~ Thursday December ~~15~~ 16, 1915

Scale R

Series 466 YELLOW

Mc 80 27 | ε Orionis | 5h 35 - 1.3

	sc.1	sc.2	Diffr. Inv. 9h sc.2	9h sc.2	Rc. sc.2
1	6.1		12.4	12.3	12.3
2	7.5	Q	13.3	Indef?	13.3
3	10.1		t.p.	14.9	n.s.
4	10.9		n.s	n.s.	
5	12.1	12.1			
6	12.6	12.4			
7	12.1	12.1			
8	12.8	12.6			
9	13.4	13.5			
10	↓	↓			
11	n.s.				
12	n.s.				
13					
14					
15					

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Thursday
~~Wednesday~~ December ~~15~~ 16, 1915

Scale R

Series 466 YELLOW

	Mc 80 28	Pleiades	3 42 +23.6	
			B.C.	
	sc.1 sc.2		sc.1 sc.2	
1	B		6.4	
2			7.3	
3			7.4	
4			7.5	
5			7.7	
6			8.1	
7			8.8	
8			9.8	
9			10.3	
10	B		10.9	
11	B.		11.4	
12	B.		11.4	
13	B		12.1	
14	B		12.2	
15	B		12.2	
16	5.4		12.1	
17	6.1		12.5	
18	7.1		13.3	~~13.3~~
19	dbl?		13.4	~~13.4~~
20	7.9 B.		v. from	
21	8.1 B.		13.3	
22	8.1 8.1		13.4	
23	8.2 8.3		13.7	
24	8.4 8.4		13.6	
25	8.7 89.1		f.	
26	8.1 8.1		13.9	

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Thursday
Wednesday December ~~15~~ 16, 1915

Scale R

Series 466 YELLOW

	Mc 80 28	Pleiades	cont.
			D.C.
	RC 2	RC 2	RC 2
27	10.4	10.3	n.s.
28	10.7	10.6	n.s.
29	8.8	9.1	
29a	10.4	10.4	
30	11.2	11.1	
31	12.3	12.3	
32	13.1	13.1	
32a	13.3	13.1	
33	13.5	13.6	
34	n.s.	n.s.	
35	n.s.	n.s.	
34a	n.s.	n.s.	

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Scale R

Series 466 YELLOW

	MC 8028		. Pleiades	Diffr. Imn.
	h			
	sc.1 sc.2	sc.1 sc.2		
1	B			
2	B			
3	B			
4	B			
5	B			
6	7.1	B		
7	B			
8	8.1	8.6		
9	9.6	9.3		
10	10.5	10.4		
11	11.3?	11.2?		
12	11.1	11.2		
13	11.7	11.5		
14	11.5	12.2		
15	12.1	12.2		
16	12.2	11.8		
17	12.3	12.6		
18	13.3	13.4		
19	t.f.	13.6		
20	13.4	13.4		
21	t.f.	13.8		
22	13.5? v.f.	13.5		
23	13.5	f		
24	13.6	13.6		
25	f	13.8		
26	13.5	def?		
27	n.s.	n.s.		

Line of Diffr. Imn. sup. on plate 11 + diffr. images

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~~Wednesday~~ Thursday December 16, 1915

Scale R

Series 466 YELLOW

MC 8030 D4-

				P.C.
		sc.1	sc.2	sc.1 sc.2
1	B.			11.8
2	B			12.3
3	7.3			11.6
4	B			11.7
very poor	5	8.1?		13.3
	6	8.2		~~12.4~~
	7	6.3	B.	12.4
	8		9.2	~~13.5~~ wr. image
	9	5.4	B.	t.p.
	10		9.2	n.s
	11		9.8	n.s.
	12	8.6	9.1	Ident uncertain.
	13	7.8	8.1	13.5?
	14		10.6	n.s.
	15		10.5	
	16		9.2	
	17		11.2	11.1
	18		11.4	11.3
	19		11.1	10.7 s.p.
	20		11.6	11.6
	21		11.7	11.7
	22		12.4	12.3
Cannot comp. with scale	23			
	24		12.1	12.1
	25		13.1	13.3
	26		13.3?	13.4
St. stars are poor —	27		13.8	14.1?
	28		+f.	29 +f.

PC's also poor.

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Thursday December 16, 1915.

Scale 13 Series 466-

Mc 8030 D4- Diffr. Im.

	g		h	
	Sc.1	Sc.2	Sc.1	Sc.2
1	11.3		11.3	
2	12.5		edge	
3	t.f.		13.5	
4	11.21		11.5	
5	13.2		13.4	
6	t.f.		13.4	
7	12.2		12.2	
8	n.s.		t.f.	
9	11.4		11.5	
10	n.s.		t.f.	
11	n.s.		13.4	
12			13.5?	
13			t.f.	
14				
15				

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Thursday December 16, 1915

Scale R

Series 466

Mc 8031 C4 7 +15°

	sc.1	sc.2	sc.2	sc.2
1	B		11.4	
2	B		11.8	
3	B.		11.7	11.8
4	B.		11.4	
4a	5.6		12.1	
5	8.1		13.4	
6	B.		12.2	
7	6.1	B.	12.4	
8	8.4 8.5	9.1 9.0	n.s.	
9	7.3	B.	13.3	
9a	8.5	9.1	~~13.3~~ n.s.	
10		9.7		
11		10.4		
12	8.7	9.2		
13	8.6	9.1		
14		11.1		
15		11.4		
16		11.5		
17		11.2 11.4		
18		12.2 12.4		
19		12.1 11.9		
20		11.9 11.6		
21		13.3 13.1		
22		12.8 12.8		
23		13.5 13.6		
24		13.5 13.7		
e		13.3 13.3		
		n.s. n.s.		

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Thursday December 16, 1915

Scale R- Series 466-

	Mc 80 31		C4 cont.	Diffr Im.
	g	h		
	sc.1 sc.2	sc.1 sc.2		
1	11.2	11.1		
2				
3	11.4	11.4		
4	11.2	11.3		
4a	12.2	12.3		
5	13.4	13.5		
6	11.8	11.7		
7	12.2	12.2		
8	13.7	13.8		
9	12.7	12.8		
9a	def?	13.8		
10	14.0?	14.0		
11	n.s.	n.s		
12	n.s.	n.s.		
13				
14	n.s.			
15	n.s.			
16				

12:26
1:05-2:20

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1915phae.proj.10700

Monday December 20, 1915.

Scale R

Sc. measures of ~~plates for~~ c.s. for UZ Cygni + RS Lacertae.

12:18 Mc 3900. 22 +45°

Pc.

	sc.1	sc.2		Diff.	sc.1	sc.2		Diff.
	5.5				11.35 1 0			
a	5.5			3.23	11.3	11.4		−2.51
	6.2				11.70 1 1			
b	5.9			3.22	11.8	11.6		−2.31
	7.1				12.50 1 1			
c	6.8			2.84	12.4	12.6		−2.46
	7.7				13.1	13.1 0 0 0		
d	7.4			2.82	12.1	13.1		−2.47
	7.6				13.10 0 0			
e	7.3			2.87	13.1	13.1		−2.54
	7.9				13.40 1 1			
f	7.6	B.		2.79	13.3	13.5		−2.36
	8.8				14.0 0 0			
g	8.5	8.6	8.70 1 1	2.62	14.0	14.0		−2.25
h		9.3		2.63	n.s.			,
k		9.6		2.54				
		9.9						
l		~~12.5~~	w.s.	2.48				
		10.15 0 1						
m		10.2	10.1	2.30				
		10.97 3 1 1						
n		10.7	11.1	11.1 2.25				
		11.45 1 0						
o		11.5	11.4					
		12.15 0 1						
p		12.2	12.1					
		12.45 0 1						
q		12.4	12.5					
		13.20 0 0						
r		13.2	13.2					
		13.35 1 0						
s		13.3	13.4					
		13.65 0 1						
t		13.6	13.1				Cw.	Magn.
	6.9			Cw.	12.60 0 0			
c'	6.6			3.00 9.90	12.6	12.6	−2.47	10.13
					12.75 1 0			
d'	def.			. .	12.7	12.8	−2.45	10.30
					13.30 0 0			
e'	.			. .	13.3	13.3	−2.40	10.90
	7.1				13.50 1 1			
f'	6.8	v.f.		2.94 10.04?	13.4	13.6	−2.38	11.12
					13.75 1 0			
g'	.			. .	13.7	13.8	−2.32	11.43
h'	.			. .	m.s.	n.s.	,	,
	6.9	9.00 1 1						
k'	8.6	9.1		2.60 11.60	n.s.	n.s.	,	,
l'	.	9.7?		2.47 12.17?	n.s.		,	,
	7.5							
(UZ Cygni) Var.	f2			2.87 10.37	12.9		−2.44	10.46
(RS Lacertae) Var.	f1			.	12.4		−2.48	9.92

meas. by mistake

additional stars for RS Lacertae

Dm. large + f.

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Monday, December 20, 1915.

Scale R SC measures c.s. UZ Cygni + RT Lacertæ.

* Mc 6415

		sc.1	sc.2		Diff.	SC. sc.1	sc.2	Diff
*Seg. not in centre.	a	B.			1	11.10 0 0		
		64				11.1	11.1	- 2.26
	b	6.1			382	11.70 1 1		
						11.8	11.6	- 2.31
		74				12.35 1 2		
	c	7.1			2.54	12.5	12.2	- 2.31
		8.1						
	d	7.8			2.42	~~12.5~~? def.?		
		8.1				12.70 1 1		
	e	7.8	B.		2.37	12.8	12.6	- 2.14
		86				13.50 0 0		
	f	8.2	8.1	8.40 1 1	229	13.5	13.5	- 2.46
		91						
	g	8.8	9.1	9.10 0 0	222	13.8?	ft.	- 2.05
				10.20 0 0				
	h		10.2	10.2	173	n.s.		
				10.40 0 0				
	k		10.4	10.4	174			
				10.55 0 1	83			
	l		10.6	10.5	178			
				10.60 1 1	185			
	m		10.7	10.5	295			
				11.50 0 0				
	n		11.5	11.5	172			
				11.70 1 1				
	o		11.8	11.6				
	f_2'							
	q							
	r							
	s							
	t							

					Cu	Magn.			
		76					12.55 1 0		
7a RT Lacertæ	c'	7.3			2.53	10.13	12.5 12.6	- 2.26	10.29
		79					12.60 0 0		
	d'	7.6	B.		244	10.34	12.6 12.6	- 2.25	10.35
		84					13.20 1 1 13.1.?		
	e'	8.1	8.2	8.30 1 1	2.33	10.63	13.3 (very close to bit star)	- 2.24	10.96
		87					13.50 0 0 3		
	f'	8.4	8.5	8.60 1 1	2.23	10.83	13.5 13.5	- 2.22	11.25
		90							
	g'	8.7	9.1	9.05 0 1	2.12	11.17	13.8? n.s.?	- 2.20	11.60?
			10.10 0 0						
	h'		10.1	10.1	1.92	12.02	n.s.		
			9.75 1 0						
	k'		9.7	9.8	1.99	11.74			
			10.45 1 0						
	l'		10.5	10.4	1.85	12.30			
		76							
(UZ Cyg)	Var.	7.3			2.53	10.13	12.8	- 2.25 1:10	10.65
(RT Lac)	Var.	6.8			2.82	9.62	(nearly sup.)		

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Tuesday December 21, 1915

Scale M. 8:47

Sc. measures, p.c.s. for WZ Cygni + RS Lacertae.

I 28939

Seq. for WZ Cygni

	sc.1	sc.2		Diff.	D.C. sc.2	D.C. Diff.
a	5.3 (5.8)	5.4	5.60 2 2	3.43	9.8?	−0.96 ~~8.84?~~
b	5.8 (6.0)	5.8	5.90 1 1	3.52		
c	6.5 (6.7)	6.5	6.60 1 1	3.34		
d	6.8 (7.0)	6.8	6.90 1 1	3.62		
e	7.0 (7.2)	7.3 ~~6.8(e)~~	7.25 0 1	3.22		
f		7.4		3.29		
g		7.8		3.52		
h		8.3		3.63		
k	8.4	8.4	8.45 0 1 8.5	3.69		
l		8.6	8.60 0 0 8.6	3.78		
m		8.1	8.75 1 0 8.8	3.70		
n		9.4	9.45 0 1 9.5	3.77		
Var. p		7.3	7.25 1 0 7.2			
q						
r						

Add. stars:—

Seq. RS Lacertae

				Cw.	Magn
c'	(6.2) 6.4	6.6	6.50 1 1	3.43	9.93
d'	(6.7) 6.9	7.0	6.95 1 0	3.43	10.39
e'	(6.7) 6.9	6.8	6.85 1 0	3.43	10.23
f'		7.2		3.45	10.65
g'		7.3? poor	7.38 1 0 7.4	3.46	10.81
h'		8.1	8.15 1 0 8.2	3.57	11.67
k'		8.1 poor	8.10 0 0 8.1	3.56	11.66
l'		8.4?	8.50 1 1 8.6	3.63	12.13
Var.	(5.8) 6.0			3.42	9.42

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Tuesday December 21, 1915

Scale M Sc. measures comparison stars Cont

I 28860

		sc.1	sc.2		Diff.	P.C. sc 2	Diff
		4.7					
a		4.5	4.1	4.70 00	4.33	9.5	− 0.66
		5.1					
b		4.9	5.1	5.10 00	4.32	9.8	− 0.41
		5.9					
c		5.1	5.9	5.90 00	4.04		
		6.4					
d		6.2	6.2	6.30 11	4.22		
		6.6					
e		6.4	6.5	6.58 01	3.92		
		6.8					
f		6.6	6.9	6.85 01	3.84		
		7.2					
g		7.0	7.2	7.20 00	4.12		
				7.80 11			
h			7.7	7.9	4.13		
				7.90 00			
k			7.9	7.9	4.24		
				8.10 00			
l			8.1	8.1	4.28		
				8.10 00			
m			8.1	8.1	4.35		
				8.80 11			
n			8.9	8.7	4.40		
		6.3					
(W Z Cyg.)	Var.	6.1					
	a'				Cu	magn.	
		5.8					
addit. stars	c' d	5.6	5.7	5.75 01	4.14	9.89	
Sup. R.V. Lacert.	d'	5.8	6.2	6.10 11	4.10	10.20	
	e'	5.9	6.1	6.10 00	4.10	10.20	
	f'	6.2	6.3	6.35 01	4.08	10.43	
	g'	6.5	6.9	6.80 11	4.06	10.86	
	h'			7.75 10			
			7.7	7.8	4.16	11.91	
	k'			7.60 11			
			7.5	7.7	4.12	11.72	
	l'			8.00 11			
			8.1	7.9	4.20	12.20	
	m'						
		5.6					
(R V Lac)	Var	5.4			4.16	9.76	

9:12

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