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Genevieve F. Mathews
Book 7
Circumpolar Variables.

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Genevieve F. Mathieus

Record Book no. 7

Series containing Circumpolar Variables - (Plates for Comparison Stars)

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N.B. In this book and all others of Mt., scale measures on Series and T' plates are made out of order; that is, although the sequences are recorded generally with stars ~~designations~~ in consecutive (of designation or in order of brightness) order, the measures themselves are made at random, for the sake of independent results.

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11.18 Series 323

Scale R. mc 6290 Pole

	Sc.1	Sc.2	Sc.3				Sc.1	Sc.2			
5								P.			6295 +10 775
6							8.8	8.8			9.00 12 2 8.90
8								7.	10.6	10.7	10.50 11 1 10.35
9							mc 6295 +10	Mean	Diff	10.9	10.9	10.90 0 0 11.37
10	5.6						6.0	5.95	1 0 3.07	11.2	11.2	11.20 00 11.75
11	6.7						6.9	6.95	0 1 2.60	12.1		12.4
12	6.9						7.0	7.10	1 1 2.76	12.3		13.1
13	7.7						7.6	7.80	2 2 2.50	13.1	12.9	13.00 1 1 13.6
14	7.9		P.				8.2	8.20	0 0 2.45	13.6		14.0
15	8.7		8.8		8.90	1 1	8.75	8.84	08 07 2.26	Defect? 13.6?		13.5
16	9.0		9.3		9.30	0 0	9.10	9.20	10 10 2.20	Scratched 14.0?		
17	7.		9.8				9.7	9.75	0 1 1.88	13.9		
18			10.2				10.1	10.15	0 1 1.91	7.		
19			10.6				10.7	10.65	0 1 1.77			
20			11.1				10.9	11.00	1 1 1.73			
23			11.8	11.8	11.80	0 0	11.90	11.85	05 05 1.49			
25		12.4	12.8	12.3	12.50	1 3 2	12.70	12.60	10 10 1.27			
26			12.9	12.8	12.85	1 0	12.90	12.88	03 02 1.45			
27			13.3	13.3	13.30	0 0	13.70	13.50	20 20 1.19			
28			13.8	13.9	13.85	0 1	13.90	13.88	03 02 1.23			
29			7.	7.								
30												

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Series 323

Scale R. Inc 6291 Di att -.221 Pe

Mean	Diff.	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
7.98	-.149	4.1				7.	9.9	10.0 9.95 1.0 -2.09	7.86
8.96	-.185	4.8					10.1	10.2 10.15 1.0 -2.15	8.00
10.42	-.219	4.7					10.2	10.2 10.20 0.0 -2.15	8.05
11.14	-.231	4.9					10.6	10.6 10.60 0.0 -2.27	8.33
11.48	-.246	4.6				10.4	10.7	10.4 10.50 1.0 -2.24	8.26
12.25	-.270	5.7	6	2.98	8.98		11.0	-.237	8.63
12.70	-.284	5.4	7	3.06	8.76		10.9	-.234	8.56
13.30	-.300	5.7	8	2.98	8.98		11.2	-.242	8.78
13.80	-.315	5.8	9	2.96	9.06		11.7	-.255	9.15
13.66?	-.252	5.9	10	2.92	9.12		11.7	-.255	9.15
14.00?	-.260	6.5	11	2.77	9.57		12.1	-.266	9.44
13.79	-.227	6.7	12	2.70	9.70		12.3	-.273	9.57
		6.8	13	2.68	9.78		12.3	-.273	9.57
		6.9	14	2.65	9.85		12.9	-.284	10.06
		7.1	15	2.61	10.01		12.9	-.284	10.06
		7.7	16	2.45	10.45		13.6	-.281	10.79
		7.9	16a	8.10 1.1 2.43	10.53		13.7	-.279	10.91
		8.3	17	8.45 2.1 2.35	10.80		13.7	-.279	10.91
		8.8	18	8.95 1.2 2.31	11.26		13.8	-.277	11.03
		8.8	19	9.15 1.0 2.16	11.31		14.0	-.270	11.30
		8.8	20	9.00 1.1 2.20	11.20		14.1?	-.265	11.48?
		7.	21	9.3 2.12	11.42		13.9	-.277	11.03?
			22	9.9 1.96	11.86		7.		
			23	10.3 1.86	12.16				
			24	10.2 1.89	12.09				
			25	10.1 1.74	12.54				
			26	10.8 1.74	12.54				
			27	11.1 1.68	12.68				

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Series 323

Scale R Mt. 6291 (cont.) D1 P. C

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2
28		11.7			1.52	13.22		
29		11.5			1.56	13.06		
30		11.9			1.47	13.37		
31		12.0			1.44	13.44		
32		12.3			1.40	13.70		
33		12.7			1.33	14.03		
34		12.7	12.6	12.65 10	1.34	13.99		
35		13.0	13.2	13.10 11	1.28	14.38		
36		13.1	13.2	13.15 10	1.27	14.42		
37		13.8	13.9	13.85 01	1.20	15.05		
38		13.8	14.2?	14.00? 22	1.19	15.19?		
39		14.2?	14.1?	14.10? 00	1.19?	15.29?		
40								

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Series 323

Scale R. Inc 6292 C1 alt. +15° P.C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
1	2.5				8.8	8.6	8.95 12 − 1.81	7.14
2	2.9				8.9	9.1	9.15 01 − 1.87	7.28
3	3.8				8.9	9.1	9.15 01 − 1.87	7.28
4	4.4				7.	10.2	10.20 00 − 2.16	8.04
5	4.3				7.	10.6	10.45 21 − 2.22	8.23
6	4.6					10.8	− 2.31	8.49
7	5.1		3.13	8.53		10.9	− 2.34	8.56
7a	5.3		3.09	8.69		10.9	− 2.34	8.56
8	5.8		2.96	9.06		11.7	− 2.55	9.15
9	5.8		2.96	9.06		11.6	− 2.53	9.07
Close Double? 10	5.8		2.96	9.06		12.0	− 2.64	9.36
11	6.3		2.81	9.41		12.1	− 2.66	9.44
12	6.9		2.65	9.85		12.7	− 2.80	9.90
13	6.9	B.	2.65	9.85		13.0	− 2.84	10.16
13a	7.7	B.	2.45	10.45		12.9	− 2.83	10.07
14	7.9	8.0	8.10 11	2.43 10.53		13.2	− 2.85	10.35
15	8.3	8.8	8.70 11	2.27 10.97		13.9	− 2.73	11.17
16	8.4	8.4	8.55 12	2.33 10.88		13.9	− 2.73	11.17
17	8.9	9.4	9.30 11	2.12 11.42	7.			
18		10.1		1.91 12.01				
19		10.3		1.87 12.17				
20		10.8		1.74 12.54		12.8	12.85 01 1.31	14.16
21		11.2		1.63 12.83		12.9	13.00 11 1.29	14.29
21a		11.7		1.51 13.21				
22		11.9		1.46 13.36	13.3	13.7	13.40 12 1.24	14.64
23		12.0		1.45 13.48		13.9	13.85 10 1.20	15.05
24		11.9	12.0 11.95 10	1.45 13.40		14.3?	14.3? 14.30 00	
25		12.2		1.41 13.61	Wrong minutes	14.1?	14.10 00 1.19?	15.29?
26		12.4	12.4 12.40 00	1.38 12.78				

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Scale R Series 3 2 3

Me 6293 ~~Curve~~ Dm. 1.0 +25 Alt. +18 P C

	Sc.1	Sc.2	Sc.2	Curve	Magn	Sc.1	Sc.2	Sc.2	Curve	Magn
						↓				
01	4.1 44.						10.2	10.2	10.20 00 -2.16	8.04
02	5.6 59.			3.01	8.91		11.1	11.7	11.6 11.47 21 -2.49	8.98
C.C. wrong unit 03	6.4 67.			2.80	9.50		12.4	12.4	12.40 00 -2.75	9.65
4 = 04	7.7 80.		B	2.44	10.44		13.3	13.2	13.25 10 -2.85	10.40
05	8.2 85.		8.7	8.60 11	2.33 10.90		13.9	13.8	13.85 - 2.75	11.10
06	8.9 92.		9.1	9.15 01	2.16 11.31		13.9		- 2.74	11.26
07	8.9 92.		9.7	9.45 23	2.08 11.53		↓		.	.
08	↓		10.1		1.91 12.01					
09			10.7		1.77 12.47					
010	↓		10.6		1.80 12.40					
011			10.7		1.77 12.47					
12 = 012			11.1		1.66 12.76					
013			11.6		1.53 13.13					
014			12.1		1.43 13.53					
15 = 015			12.6	12.4	12.50 11				1.35 13.85	
16 = 016			12.8	12.8	12.80 00				1.31 14.11	
17 = 017			12.9	13.2	13.00 11				1.29 14.29	
18 = 018			12.9	13.0	12.95 10				1.29 14.24	
19 = 019			13.4	13.6	13.50 11				1.23 14.73	
20 = 020			13.8	13.9	13.85 01				1.19 15.04	

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Series 323

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Scale R Mc 6294 Carte 1.0 +39.5 P.C.

	Sc.1	Sc.2	Sc.2	Curve	Magn	Sc.1	Sc.2	Sc.2		
1	1.7 (1.7)					8.7 7.9 (8.2)	8.1	8.15 01	-.161	6.54
2	4.1 (4.4)					⁄	9.9	10.1	10.00 11	-.210 7.90
3	4.8 (5.1)					⁄	10.8	10.9	10.85 01	-.231 8.54
4	4.54 (5.)			3.06	8.76		11.4	11.6	11.50 11	-.249 9.01
5	6.2 (6.5)			2.85	9.35		12.3	12.3	12.30 00	-.273 9.57
6	6.8 (7.1)			2.68	9.78		12.9			-.284 10.06
7	7.2 (7.5)			2.60	10.10		13.3			-.284 10.46
8	7.9 (8.2)	B.		2.40	10.60		13.8			-.28 (.17) 11.03
9	8.5 (8.8)	8.5	8.65 21	2.29	10.94		13.9			-.274 11.16
10	⁄	9.7		2.02	11.72		⁄			
11		10.3		1.87	12.17					
12		10.9		1.72	12.62					
13		11.3		1.61	12.91					
14		11.9		1.46	13.36					
15		12.4	12.4 12.40 00	1.37	13.77					
16		12.8	12.8 12.80 00	1.31	14.11					
17		12.8	12.9 12.85 01	1.30	14.15					
18		13.4	13.3 13.35 01	1.25	14.60					
19		13.7	13.7 13.70 00	1.21	14.91					
20		13.8	13.8 13.80 00	1.20	15.00					

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Series 3 2 3

Scale R Mt 6295 Pole P C.

	Sc.1	Sc.2	No.2		Sc.1	Sc.1	Sc.2	Sc.2	
5					7.5 (7.8, 7.7)	7.4	B		7.75 0 1
6					8.1 (8.0)		8.8		8.90 1 1
8					7		10.3	10.4	10.35 1 0
9							11.2	11.7	11.2	11.37 2 3 2
10	5.7 (6.0)						11.7	11.8		11.75 1 0
11	6.6 (6.9)						12.4			
12	6.7 (7.0)						13.1			
13	7.3 (7.6)						13.6			
14	7.9 (8.2)	B.					14.0			
15	8.6 (8.9)	8.6		8.75 1 2			n.s.			
16	9.0 (9.3)	8.9		9.10 2 2						
17	7	9.7								
18		10.1								
19		10.7								
20		10.9								
23		11.9	11.9	11.90 0 0						
25		12.6	12.8	12.70 1 1						
26		12.8	13.0	12.90 1 1						
27		13.7	13.7	13.70 0 0						
28		13.9	13.9	13.90 0 0						
29		7								

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10.05 Series 323

Scale R mc 6295 Pole P.E.

	Sc.1	Sc.2				Sc.1	Sc.2	mc 6301	Mean	Diff
5						7.8 8.1	7.7 8.0	8.05 10	9.25	8.65 - 216
6							8.7 9.0	8.85 21	9.85	9.35 - 224
8							7.	10.4	10.4	10.40 00 11.15 10.78 - 255
9				mc 6301	Mean	Diff		11.3	11.3	11.30 00 11.90 11.60 - 277
10	5.5 5.2			7.21 6.2	5.85	3.17		11.8	11.8	11.80 00 12.35 12.08 - 306
11	6.6 6.3			6.8	6.70	2.85		12.3		12.8 12.55 - 300
12	6.9 6.6			7.5	7.20	2.66		12.9		13.3 13.10 - 324
13	7.5 7.2			8.2	7.85	2.45 Wrong unit.		13.7		13.8 13.75 - 345
14	8.1 7.8	B.		8.45	8.28	2.37		13.9		13.8 13.85 - 320
15	8.7 8.4	8.6	8.65 10	9.5	8.90	2.18		7		14.0 14.5 - 292
16	9.1 8.8	8.8	8.95 12	9.7	9.32	2.08				
17	7.	9.5		10.1	9.80	1.83				
18		10.1		10.8	10.45	1.61				
19		10.7		10.9	10.80	1.62				
20		10.8		11.2	11.00	1.73				
23		11.8	11.9	11.85 01	11.7	11.78	1.56			
25		12.3	12.5	12.40 11	12.15	12.28	1.59			
26		13.1	12.9	13.00 11	12.80	12.90	1.43			
27		13.6	13.6	13.60 00	13.10	13.35	1.34			
28		13.9	13.9	13.90 00	13.80	13.85	1.26			
29		7	7		13.80	13.80	1.86			
30										

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Series 323

Scale R Me 6296 B1 ax. +.20 Pc.

	Sc.1	Sc.2	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
1	B.					8.2 85.	8.7	8.60 11-2.13	6.47
2	2.1 24.					9.0 93.	9.3	9.30 00-2.23	7.07
3	2.8 31.					8.5? 88.	8.9?	8.85 01-2.16	6.69
4	3.2 35.					7.	9.9	9.8 9.85 10-2.34	7.51
5	2.8 31.		3.15 01				10.2	10.2 10.20 00-2.41	7.79
6	3.8 41.						10.3	-2.44	7.86
7	4.2 45.			3.54	8.04		10.9	-2.59	8.31
8	4.9 52.			3.31	8.51		11.2	-2.69	8.51
8a	5.1 54.			3.26	8.66		11.2	-2.69	8.51
9	5.2 55.			3.24	8.74		11.6	-2.85	8.75
10	5.7 60.			3.07	9.07		11.9	-2.95	8.95
11	5.5 58.			3.15	8.95		11.7	-2.87	8.83
12	5.0 53.		5.35 01	3.28	8.63		11.7	-2.87	8.83
13	5.7 60.			3.07	9.07		12.3	-3.05	9.25
14	6.3 66.			2.88	9.48		12.8	-3.19	9.61
15	6.9 72.			2.66	9.86		12.9	-3.20	9.70
16	7.7 80.		8.00 00	2.42	10.42		13.1	-3.31	10.49
17	7.5 78.			2.50	10.30		13.8	-3.31	10.49
18	7.6 79.	B.		2.45	10.35		13.7	-3.34	10.36
19	7.9 82.	8.1	8.15 01	2.38	10.53		13.9	-3.25	10.68
20	8.2 85.	8.7	8.60 11	2.22	10.88		14.3?		
21	7.9 82.	8.3	8.25 01	2.36	10.61		14.1?		
22	8.5 91.	9.1	9.10 00	2.06	11.16		7.		
23	8.4 90.	8.8	9.00 22	2.10	11.10				
23a	7.	9.5		1.97	11.47				
		10.2		1.86	12.00				
24		10.1							
25		10.7		1.71	12.41				
26		10.8		1.69	12.49				
26a		11.2		1.63	12.83				

Edge of plate 2nd poor.

Close double.

Red star?

Thong star

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Series 323

Scarc R mc 6296 B1 (cont) all +.20. P.E.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
26		11.2		163	1283		
27		11.7		158	1328		
28		11.9		155	1345		
29	12.3	12.3	12.30 00	150	1380		
30	12.7	12.8	1275 10	144	1419		
31	13.3	13.4	1335 10	144	1479		
32	13.8	13.7	13.7501	146	1521		
33	13.9	13.9	13.9000	153	1543		
34		T. T	.	.	.		
35							

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Series 328

Scale R Fme 6297 S Cassiopeiae (Comp stars) Oct +.14 P C

		Sc.1	Sc.2	Curve	Magn		Sc.1	Sc.2	Curve	Magn	
Off Plate	a										
	b	4.8 48.					Sup. on h. star.				
	c	5.8 5.1					10.1	10.3	10.20 1 1	-2.42	7.78 7.92
Edge Poor	d						11.8	12.1	11.95 2 1	-2.97	8.98 9.17
	e	5.8 61.			3.04	9.14 9.28	11.8	11.8	11.80 0 0	-2.90	8.90 9.04
5.3 56.	f	5.2 5.5		5.55 0 1	3.22	8.77 8.91	10.9	10.9	10.90 0 0	-2.59	8.31 8.45
5.4 5.7.	g	5.2 5.5		5.60 1 1	3.21	8.81 8.95	11.2	11.3	11.25 0 1	-2.69	8.56 8.70
Dim Poor. 7.1? 74.	h	7.1? 74.		7.40 0 0	2.60	10.00? 10.14?	13.8			-3.31	10.49 10.63
	i	6.7 70.	B.		2.74	9.74 9.88	12.7			-2.80 3.05 .45	9.90 9.99
	k	7.7 8.0	B.		2.42	10.42 10.56	13.2			-2.85 3.28 9.92	10.35 10.06
	l	7.8 81.	8.2	8.15 1 0	2.38	10.53 10.67	13.8		Wrong star	-2.51 3.31 .49	10.99 10.63
	m	7.7 80.	B.		2.42	10.42 10.56	13.7			-2.83 3.33 .37	10.87 10.51
	n	7.	10.1		1.82	11.92 12.06	7 13.8				
	o	8.9 92.	9.1	9.15 0 1	2.06	11.21 11.35	7.				
	o'	8.8 91.	9.3	9.20 1 1	2.03	11.23 11.37					
	p		9.9		1.88	11.78 11.92					
	q		10.7		1.71	12.41 12.55					
	r		10.7		1.71	12.41 12.55					
	s		10.9		1.68	12.58 12.72					
	s'		11.6		1.59	13.19 13.33					
	t		13.0	13.2	13.10 1 1	1.44 14.54	14.68				
	u		12.7 2	12.7	12.70 0 0	1.96 4. 14.16	14.30				
	w		13.0	13.0	13.00 0 0	1.44 14.44	14.58				
	x		13.1	13.1	13.10 0 0	1.44 14.54	14.68				
	y		13.7	13.4	13.55 1 2	1.46 15.01	15.15				

Stars re-examined. The first ones were evidently recorded with wrong sign of m. Oct 28, 1914

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1914phae.proj.1042M

Tuesday, October 13, 1914

Series 323

Scale R Inc 6297 Reference Sequence Oct. +14 Pc.

	Sc 1	Sc 2		Curve.	Magn	Sc 1	Sc 2		Curve.	Magn
	35.					94.				
1	3.2					9.1	9.5		9.45 01 -2.26	7.19
	55.			24		7.				
2	5.2			3.28	8.74		11.3	11.4	11.35 10 -2.76	8.59
	69.									
3	6.6			2.80	9.70		12.2	12.3	12.35 01 -3.04	9.21
	69.									
4	6.6			2.80	9.70		12.8	12.8	12.80 00 -3.19	9.61
	72.									
5	6.9			2.67	9.87		12.9	12.8	12.85 10 -3.19	9.66
	78.									
6	7.5		B	2.50	10.30		13.3		-3.30	10.00
	86.									
7	8.3	8.3	8.45 21	2.28	10.73		13.8		-3.31	10.49
	90.									
8	8.7	8.8	8.90 11	2.14	11.04		13.8		-3.31	10.49
9	7.	10.0		1.84	11.84		7.		, ,	
10		10.7		1.71	12.41		7.		, ,	
11		10.7		1.71	12.41					
12		11.0		1.65	12.65					
13		11.4		1.60	13.00					
14		12.1		1.53	13.63					
15		12.6		1.48	14.07					
16		12.7	12.6 12.65 10	1.46	14.11					
17		12.9	12.9 12.90 00	1.44	14.34					
18		13.1	13.2 13.15 10	1.44	14.59					
19		13.1	13.4 13.25 12	1.44	14.69					
20		13.7	13.8 13.75 10	1.46	15.21					

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1914phae.proj.1042M

Tuesday, October 13, 1914

cofhej

Series 323

Scale R. mc 6298 D2 ad. -.18 PE.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	3.9	4.7	.	.	7	9.7	9.8	975 10 -2.38	7.41
2	4.4	4.1	3.47	8.17	7.	10.3	10.3	1030 00 -2.44	7.86
3	3.8	4.1	:	.	9.1	9.3		9.20 1.1 -2.24	7.06
4	4.2	4.5	3.53	8.03	7	10.6	10.8	1070 11 -2.54	8.16
5	5.1	5.4	3.26	8.66		10.7	10.8	1075 10 -2.56	8.19
6	5.4	5.7	3.18	8.88		11.3		-2.73	8.57
7	5.3	5.6	3.21	8.81		11.4		-2.77	8.63
8	5.2	5.5	3.24	8.74		11.1		-2.65	8.45
9	5.9	6.2	3.01	9.21		11.8		-2.90	8.90
10	6.2	6.5	2.93	9.43		11.8		-2.90	8.90
11	6.6	6.9	2.79	9.69		12.8		-3.19	9.61
12	6.7	7.0	2.74	9.74		12.9		-3.21	9.69
13	6.9	7.2	2.67	9.87		13.4		-3.32	10.08
14	7.2	7.5	2.59	10.09		13.7		-3.34	10.36
15	7.8	8.1	8.1	8.10 00	2.50	10.60		-3.31	10.49
16	7.9	8.2	8.1	8.15 01	2.38	10.53		-3.25	10.65
17	8.3	8.6	8.6	8.60 00	2.22	10.82		-3.25	10.65
17a	8.8	9.2	9.2	9.20 00	2.04	11.24		-3.13	10.87
18	8.8	9.1	9.2	9.15 10	2.06	11.21			
19			9.8		1.90	11.70			
20			9.9		1.88	11.78			
21			10.7		1.71	12.41			
22			10.9		1.67	12.57			
23			10.9		1.67	12.57			
24	Close double		11.2?		1.62	12.82			
25			11.8		1.56	13.36			
26			11.9		1.55	13.45			
27			12.0		1.50	13.83			

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1914phae.proj.1042M

Tuesday October 13, 1914

Series 323

Scale R Toc 6297 D2 P.E.

		Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
Wrong unit	28		13.7		1.45	14.15		
	29	13.1	13.2	13.15 ± 0	1.44	14.59		
	30	13.2	13.4	13.30 ± 1	1.44	14.74		
	31	13.7	13.7	13.70 00	1.45	15.15		
	32	13.8	13.8	13.80 00	1.50	15.30		
	33	13.8	13.8	13.80 00	1.50	15.30		
	34	7.	7.	,	,	,		
	35							
	36							

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Tuesday October 13, 1914

copies

Series 3:2:3

Scale R Inc. 6299 C2 abt. t.17 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2	Curve		
1	1.3	1.6				8.9	9.2	9.25 01	-.223	7.02
2	2.2	2.5				9.1	9.4	9.35 01	-.225	7.10
3	4.1	4.4				7	10.1	10.25 10.15 10	-.240	7.75
4	4.2	4.6		3.53	8.03	7	10.8	10.8 00	-.258	8.22
5	4.8	5.1		3.35?	8.45		10.7	10.7 00	-.253	8.17
6	5.7	6.0		3.09	9.09		11.6		-.283	8.77
7	5.7	6.0		3.09	9.09		11.8		-.290	8.90
8	5.9	6.2		3.01	9.21		11.8		-.290	8.90
9	6.2	6.5		2.93	9.43		12.1		-.299	9.11
10	6.1	6.4		2.96	9.36		11.8		-.290	8.90
11	6.8	7.1		2.72	9.82		12.7		-.315	9.55
12	7.4	7.7		2.53	10.23		12.9		-.320	9.70
12a	7.7	8.0	B.	2.43	10.43		13.8		-.331	10.49
13	7.6	7.9	B	2.47	10.37		13.3		-.329	10.01
14	8.2	8.6	8.7	8.65 01	2.21	10.86		13.9		-.325	10.65
15	8.7	9.0	9.0	9.00 00	2.10	11.10		13.9		-.325	10.65
16	8.8	9.1	9.1	9.10 00	2.08	11.18		14.0		-.313?	10.87
17	8.4	9.2	9.7	9.47 03 2	1.98	11.45					
18	7.		9.8		1.90	11.70					
19			10.1		1.82	11.92					
20			10.4		1.75	12.15					
21			10.4		1.75	12.15					
22			10.9		1.66	12.58					
23			11.2		1.63	12.83					
24			11.6		1.59	13.19					
25			11.6		1.59	13.19					
26			12.1		1.53	13.63					
27			12.3	12.5 12.48	1.49	1.394					

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Tuesday October 13, 1917

Series 323

Scale R. mc 6299 C2 (cont.) adv. +17 P.C.

	Sc. 1	Sc. 2			Curve.	Magn	Sc. 1	Sc 2
28		12.8	12.8	12.80	1.00	145 +.50	14.25	
29		13.1	12.9	13.00	1.1	144 +.56	14.44	
30		13.3	13.4	13.35	1.0	1.44	14.79	
31		13.9	13.7	13.80	1.1	1.50	15.30	
32		14.3?	14.1?	14.20?	1.1			
33		14.1?	14.0	14.05?	1.0	1.57	15.62	
34		7.						

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Tuesday, October 13, 1914

Series 923 Alt. +.20

Scale R Inc. 6300 ~~Cate~~ Dm 3 + 25°

	Sc.1	Sc.2	Curve	Magn		Sc.1	Sc.2	Curve	
						P.C.			
01	4.9 (5.7)			3.31	8.51	7.	11.3	11.3 11.30 00 - 2.72	8.58
02	5.1 (5.4)			3.14	3.32 (3.27) 8.67		11.4	11.6 11.50 11 - 2.79	8.71
03	5.9 (6.7)			2.93	3.01	9.21	12.2	12.3 12.25 01 - 3.03	9.22
04	6.7 (7.0)			2.71	2.75	9.75	13.4	13.2 13.30 11 - (3.05) 3.27	10.01
05	7.4 (7.7)	8		2.55	2.53	10.23	13.9	13.7 13.85 10 - (3.19) 3.30	10.55
06	7.9 (8.2)	8.2	8.20 00	2.40	2.37	10.57	14.2		
07	7.9 (8.2)	8.0	8.10 11	2.43	2.40	10.50	13.9	- 3.25	10.65
08	7.	9.8		1.99	1.89	11.69	7		
09		10.2		1.88	1.80	12.00			
010		10.7		1.77	1.71	12.41			
011		10.9		1.72	1.68	12.58			
012		11.4		1.57	1.61	13.01			
013		11.9		1.47	1.55	13.45			
014		12.9		13	1.44	14.34			
015 Wrong mit.		13.7			1.46	14.16			
016		13.2	12.9 13.05 21		1.44	14.49			
017		13.1	13.1 13.10 00		1.44	14.54			
018		13.7	13.4 13.55 12		1.46	15.01			
019		13.7	13.7 13.70 00		1.49	15.19			
020		13.8	13.8 13.80 00		1.50	15.30			

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Tuesday, October 13, 1914

Series 823

Scale R Yme 6301 Pole

	Sc.1	Sc.2		Sc.1	Sc.2		
5				8.9 9.2	9.3		9.25 01
6				7.	9.9	9.8	9.85 10
8					11.1	11.2	11.15 10
9					11.9	11.9	11.90 00
10	5.9 6.2			Wrong unit?	12.3	12.4	12.35 10
11	6.5 6.8				12.8		
12	7.2 7.5	B			13.3		
13	7.9 8.2	B.			13.8		
14	8.2 8.5	8.4	8.45 10		13.8		
15	8.9 9.2	9.1	9.15 01		14.0		
16	7.	9.7			7.		
17		10.1			7.		
18		10.8					
19		10.9					
20		11.2					
23		11.7					
25		12.1	12.2	12.15 10			
26		12.8	12.8	12.80 00			
27		13.1	13.1	13.10 00			
28		13.8	13.8	13.80 00			
29		13.8	13.8	13.80 00			
(18 = out) 30		7.	7.				

2.29

Sea for 11

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1.55

Y' Plate for Y and RS Ursae Majoris

Scale m. mD 2099 1st Exp. Y Ursae Majoris Ref. +0.01 2nd Exp.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2			Curve	Magn
	4.7						4.1					
a	3.9	B.1			2.96	7.06	3.9	B.			2.96	7.06
	5.3						5.4					
b	5.1	5.3	5.30	00	2.51	7.81	5.2	5.4	5.40	00	2.47	7.87
	6.3						6.1					
c	6.0	5.9	6.05	2.1	2.26	8.81	5.9	5.9	6.00	1.1	2.27	8.27
	6.5						6.3					
d	6.2	6.2	6.35	1.2	2.17	8.52	6.1	6.4	6.35	1.0	2.17	8.52
	5.4						5.5					
e	5.2	5.2	5.30	1.1	2.51	7.81	5.3	5.2	5.35	1.2	2.49	7.84
	7.1						7.0					
f	6.9	6.8	6.95	1.2	2.03	8.98	6.8	6.9	6.95	0.1	2.03	8.98
	7.0						7.0					
g	6.8	6.9	6.95	0.1	2.03	8.98	6.8	6.9	6.95	0.1	2.03	8.98
	7						7					
g'	5.9	7.1			2.01	9.11		7.2			2.01	9.31
g^2		7.8			2.03	9.83		7.7			2.00	9.70
g^3		7.7			2.00	9.70		7.7			2.00	9.70
g^4		8.1			2.08	10.18		7.8			2.03	9.83
k		8.3			2.14	10.44		8.2			2.12	10.32
		8.9										
l		8.8			2.36	11.26		8.8			2.33	11.13
m		9.1	8.9	9.00	1.1	2.40	11.40	8.9	8.9	8.90	00	2.36	11.26
n	9.4	9.3	9.7	9.47	1.22	2.58	12.05	9.2	9.2	9.20	00	2.48	11.68
o		9.9	9.9	9.90	00	2.74	12.64	9.8	9.9	9.85	01	2.73	12.58
p		10.0	10.0	10.00	00	2.79	12.79	9.8	9.8	9.80	00	2.72	12.52
q		9.9	9.8	9.85	10	2.73	12.56	10.0	10.0	10.00	00	2.79	12.79
r		9.9	14.2 ?	10.05	1.2	2.80	12.85	10.1	10.0	10.05	10	2.80	12.85

Var.	7.	7.4			2.00	9.40	7. Wrong	7.6	8.7		2.00	9.60

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1914phae.proj.1042M

Wednesday, October 14, 1914

4' Plate for 7 and P 8 Ursae Majoris.

Scale 4m. 4m 2099 Pole

		Sc. 1	Sc. 2		Diff.
Scale cracked at magn. 3.0	5	3.0 3.2?	B.		3.29?
	6	3.9 4.1	B.		3.01
	8	5.8 6.0	5.8	5.90 11	2.33
	9	6.7 6.9	6.7	6.80 11	2.03
	10	6.9 7.1	6.9	7.00 11	2.02
	11	7.	7.8		1.75
	12		7.8		2.06
	13		8.12		2.10
	14		8.4		2.25
	15		8.8	8.9 8.85 01	2.23
	16		8.9	8.9 8.90 00	2.50
	17		9.1	9.1 9.10 00	2.53
	18		9.6	9.3 9.45 21	2.61
	19		9.8	9.8 9.80 00	2.62
	20		10.0	9.9 9.95 01	2.78
	23		7.	7.	

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1914phae.proj.1042M

Wednesday October 14, 1914

Y' Plates for Y and R.S. Ursae Majoris

Scale m m D 2099 R.S. Urs. Maj. Aof. +.01

	Sc.1	Sc.2			Curve	Magn	Mean	Sc.1	Sc.2			Curve	Magn
a	5.8	5.5	5.8	5.80	2.30	2.38	8.13	8.18	5.8	5.9	5.95	01	2.29	8.24
a'	6.3	6.5		6.50	00	2.12	8.62	8.58	6.3	6.3	6.40	11	2.15	8.55
b	6.7	6.9		6.90	00	2.03	8.93	8.98	6.7	7.1	7.00	11	2.02	9.02
b'	7.7	7.8	7.9	7.85	01	2.03	9.88	9.85	7.	7.8			2.02	9.82
c	7.	8.3				2.14	10.44	10.44	7	8.3			2.14	10.44
d		8.0				2.07	10.07	10.00		7.9			2.04	9.94
e		7.9				2.04	9.94	10.06		8.1			2.09	10.19
f		8.8				2.33	11.13	11.13		8.8			2.33	11.13
g		8.8				2.33	11.13	11.06		8.7			2.28	10.98
h		9.1				2.45	11.55	11.55		9.1			2.45	11.55
k'		9.8	9.7	9.75	01	2.69	12.44	12.40		9.7			2.66	12.36
k²		9.7	9.8	9.75	10	2.69	12.44	12.40		9.7	9.7	9.70	2.66	12.36
k		9.8	9.9	9.85	01	2.72	12.57	12.50		9.8	9.7	9.75	2.69	12.44
l		9.8	9.9	9.85	01	2.72	12.57	12.54		9.8	9.8	9.80	2.71	12.51
l'		9.9	10.0	9.95	1X	2.77	12.72	12.72		10.0	9.9	9.95	2.77	12.72
m		10.1?	10.0	10.05	10	2.80	12.85?	12.82?		10.0?	10.0?	10.00	2.79	12.79?
n		7.	7							7.	7			
o														

3.44

Var

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1914phae.proj.1042M

Wednesday, October 21 1914

9.43 HD Series 72

Scale 7m HD 3159 Pole P.E.

	Sc.1	Sc.2	mc 3/64 h31	mc 3/70 h37	Mean	Diff.	Sc.1	Sc.2	mc 3/64	mc 3/70	Mean	Diff
Scale defective	5	B.					7					
	6 3.9 4.1	B1		4.2	4.15 10	2.96	7.4	7.5	7.45 01	7.25	7.25 7.32 13 07	-0.83
	8 5.9 6.1	5.9	6.00 11	5.95	6.10 6.02 02 07 08	2.21	8.0	8.1	8.05 01	8.15	8.00 8.07 02 08 07	-0.96
	9 6.7 6.9	6.9	6.90 00	6.85	6.95 6.90 00 05 05	1.93	9.4	9.5	9.45 01	9.25	9.05 9.25 20 00 20	-1.02
	10 7.	7.3		6.95	7.15 7.13 17 18 02	1.89	10.0	10.0	10.00 00	9.96	9.90 9.93 07 03 03	-1.10
	11	7.9		7.7	7.9 7.83 1 1 1	1.72	7	7			10.00 10.00 00 00	
	12	8.3		8.0	8.2 8.17 1 2 0	1.69	7.	10.0		10.00	10.00 10.00	-0.98
	13	8.8		8.3	8.45 8.52 28 22 07	1.78						
	14	8.9	8.9 8.90 00	8.80	8.85 8.85 05 05 00	1.80						
	15	9.2	9.3 9.25 01	8.90	9.00 9.05 20 15 05	2.03						
	16	9.3	9.6 9.45 12	9.60	9.30 9.45 00 15 15	1.95						
	17	9.8	9.9 9.85 01	9.85	9.90 9.87 02 02 03	1.76						
	18	10.1	10.0 10.05? 10	10.25	10.18? 10.15? 10 10 00	1.91						
	19	10.2	7. 10.22?	.	. 10.20? .	2.22						
	20	7.										
	23											
	25											
	26											
	27											

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1914phae.proj.1042M

Wednesday October 21, 1914

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HD Series 72

Scale 1m HD 3:160 125 δ γ Virginis alt. +01 P. C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
a	5.0 52	5.1	5.15	01	2.54	7.69	8.6	8.7	8.65 01-1.00	7.65
a'	4.1 48	4.1	4.20	11	2.90	7.10	8.2	8.3	8.25 01-0.97	7.28
c	5.3 54	5.5	5.45	01	2.45	7.90	9.0	8.9	8.95 01-1.03	7.92
d	6.3 64	6.1	6.25	21	2.16	8.41	9.6	9.7	9.65 01-1.06	8.59
f	6.8 70	6.9	6.95	01	1.93	8.88	10.0	10.0	10.00 00-1.05	8.95
e	7.0 72	7.0	7.10	11	1.89	8.99	10.1?		-1.05	9.05?
f	7.	7.4			1.83	9.23				
g		7.9			1.76	9.66				
h		8.4	8.3	8.35	01	1.76	10.11			
k		8.8	7.7	8.75	01	1.78	10.53			
l		8.8	8.8	8.80	00	1.78	10.58			
m		9.0	9.0	9.00	00	1.80	10.80			
n		9.8	9.8	9.80	00	1.88	11.68			
o		10.0	10.2?	10.10?	11	1.93	12.03			
p										

Var. m.v.

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Tm D Series 42

Scale Tm Tm T. 3161 124 V Alt. - 28 P.E.

R Corrn

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
Too far from centre a.					7.	8.2	8.3 8.25 01-0.98	7.27
c	5.4 56'	5.7	5.65 01	2.38 8.03		8.9	8.9 8.90 00-1.02	7.86
f	5.9 61'	6.0	6.05 10	2.22 8.27		9.0	9.3 9.15 2-1.03	8.12
d	6.9 71'	6.9	7.00 11	1.92 8.92		9.9	9.9 9.90 00-1.05	8.85
d'	7.	7.7		1.79 9.49		7.	7.	
g		8.1		1.76 9.86				
f		7.9		1.76 9.66				
e		7.9		1.76 9.66				
h		8.8		1.78 10.58				
k		9.3	9.2 9.25 10	1.82 11.07				
l		9.1	8.9 9.00 11	1.80 10.80				
n		9.2	9.4 9.30 11	1.83 11.13				
m		10.0	10.0 10.00 00	1.90 11.90				
o		9.9	9.9 9.90 00	1.89 11.79				
p		7.	7.					
q								
r								

Var 7.

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Series 72

Scale Tr. | Tr D 3162 | 126 d | Tues. Traj. Alt. + 20 | P. C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
Scale cracked. a		B.			7	7.8	7.8 780 00	- 091 689
b	5.1 53	5.1	5.20 1 1	252 7.72		8.8	8.8 855 10	- 102 783
c	5.4 56	5.7	5.65 0 1	238 8.03		9.3	9.2 925 10	- 104 821
d	5.7 59	5.9	5.90 0 0	227 8.17		9.7	9.4 955 12	- 105 850
e	5.1 53	5.0	5.15 1 2	254 7.67		8.8	8.8 880 00	- 101 779
f	6.3 65	6.6	6.55 1 0	204 8.54		9.9		- 105 885
g	6.7 69	6.7	6.80 1 1	197 8.77		10.0		- 105 895
h	7.0 72	7.1	7.15 0 1	187 9.02		10.0		- 105 895
i	7	7.3		184 9.14	7			
j		7.5		183 9.33				
k		8.1		176 9.86				
l		8.4	8.5 8.45 0 1	177 10.22				
m		8.9	8.9 8.90 0 0	179 10.69				
n		9.1	9.0 9.05 1 0	180 10.85				
o		9.9	9.8 9.85 1 0	188 11.73				
p		9.9	9.9 9.90 0 0	189 11.79				
q		7.7						

Var.

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Series 72

Scale m m D 3162 alt + 28 R.S. Tau 7 maj Pc.

	Sc.1	Sc.2			Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
	5.1 5.5	5.6									
a	5.6	5.4	5.4	5.58	12.22	2.40	7.98	7.	8.9 8.9	8.90	00-1.02	7.88
a'	6.1	6.1		6.20	11	2.16	8.36		9.8 9.9	9.85	01-1.06	8.79
f	6.8	6.9		6.95	01	1.93	8.88		9.9 9.8	9.85	10-1.06	8.79
f'	7.	7.8				1.77	9.57		7 7	.	.	.
c	7.	8.3				1.76	10.06		7. 7	.	.	.
		* 8				76	9.76					
d		8.0				1.80	10.80					
e		8.1				1.76	9.86					
f		8.8	8.9	8.85	01	1.78	10.63					
g		8.9	8.9	8.90	00	1.79	10.69					
h		9.2	9.2	9.20	00	1.82	11.02					
h'		9.9	9.9	9.90	00	1.89	11.79					
h²		9.8	9.9	9.85	01	1.88	11.73					
k		8. 7										
b												
l'												
m												
n												
o												
p												

Var 7.

Remeasured Monday Jan. 18, 1915. Rec. m. OP

Sc. 2

c 8.3 * Mistake of unit, as shown by remeasures. F.T.M. Jan. 18. 1915.

d 8.0

e 8.2

b 6.8

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Wednesday, October 21, 1914

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HD Series 72

Scale 4m. HD 3163 127 Alt. +.13 P. C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2	Curve	Magn
a	B.	B.				5.7	5.8	585 10	. .
c	.	B.				7.	7.7	7.3 735 01 -084	6.51
f	4.7	4.9	490 00	263	7.53		8.3	8.3 830 00 -097	7.33
d	4.8	4.9	495 01	261	7.56		8.7	8.6 865 10 -100	7.65
e	5.1	5.1	520 11	253	7.73		8.8	8.8 880 00 -101	7.79
g	5.9	5.9	600 11	222	8.22		9.7	-106	8.64
h	5.9	5.9	600 11	222	8.22		9.4	-105	8.35
6.1 g	6.4	6.2	6.2 633 03 11	213	8.46		9.8	-106	8.74
k	6.7	6.7	680 11	197	8.77	Nearby Single Bee Stars	9.9	-105	8.85
l	6.9	7.0	705 10	191	8.96		10.3	-104	9.26
m	7.	7.9		176	9.66		7.	.	.
n		7.9		176	9.66				
o		8.4		177	10.17				
p		8.8	8.9 885 01	178	10.63				
q		9.3	9.2 925 10	182	11.07				
r		9.3	9.3 930 00	183	11.13				
s		9.9	9.9 990 00	193	11.79				
t		9.9	9.9 990 00	193	11.79				
u		10.1?	10.1? 1010 00	193	12.03				
w		7	7. ,	,	,				
	Var. 5.4	5.4				7.	8.9		

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Wednesday. October 21, 1914

MD Series 72

Scale m MD 3164 Pole

	Sc. 1	Sc. 2		Sc. 1	Sc. 2	
Scale cracked 5	.	B.		7.	7.3	7.25 10
6	7.0 47.	B.			8.2	8.15 10
8	5.8 60.	5.9	5.95 01		9.2	9.25 01
9	6.7 69.	6.8	6.85 10		9.9	9.90 00
10	6.8 70.	6.9	6.95 01		10.0	10.00 00
11	7.	7.7			7.	7.
12		8.0				
13		8.3				
14		8.8	8.80 00			
15		8.9	8.90 00			
16		9.7	9.60 11			
17		9.9	9.85 10			
18		10.2?	10.3? 10.25 01			
19		7.	7.			
20						
23						
25						
26						

Sc 4p. 25

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HD Series 72.

Scale m. HD 3165 Alt. +23 P Can. Ven. P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
Too far from entrance						7.	8.3	8.4	8.35 10	0.98 7.37
b	5.0 57	5.2	5.20 00	2.53	7.73		8.8	8.8	8.80 00	-1.01 7.79
a							8.4	8.3	8.35 01	-0.98 7.37
d	4.9 51	5.0	5.05 10	2.04 58	7.69 3		8.8	8.8	8.80 00	-1.01 7.79
f	5.6 56	5.8	5.80 00	2.31	8.11		9.0	9.	9.00 00	-1.02 7.98
e	6.7 69	6.8	6.85 10	1.96	8.81		9.9			-1.06 8.84
g	6.9 71	6.9	7.00 11	1.92	8.92		10.2?			-1.04 9.16?
h	7.	7.1		1.79	9.49	7.				
k	7.	8.0		1.76	9.76					
l	7.	7.9		1.76	9.66					
n		8.2		1.76	9.96					
m		8.4	8.3	8.35 01	1.76	10.11				
p		8.9	8.9	8.90 00	1.79	10.69				
o		8.9	8.9	8.90 00	1.79	10.69				
q		9.7	9.8	9.75 10	1.88	11.63				
t	9.5	9.3	9.7	9.50 02	1.85	11.35				
r		10.0	10.1?	10.05 01	1.91	11.96				
s			10.0		1.90	11.90				
u										

Var. 6.8 70 6.9 6.95 01 1.93 8.88 7. 10.0 10.0 10.00 00 -1.04 8.96

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MD Series 72

Scale 7m MD 3166 13017 Alt. - N P.C.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2		Curve	Magn
	6.9.										
1	6.7	6.7	6.80	1	1.76	8.76	7.	9.7	9.7	9.70 00-106	864
2	7.7 8.	7.0	7.10	1	1.89	8.99		9.9	9.9	9.90 00-105	885
3	7.	7.8			1.76	9.56		7.	7.	.	
4		8.2			1.76	9.96					
5		8.3	8.2	8.25	1 0	1.76	10.01				
6		8.8	8.5	8.65	2 1	1.78	10.43				
7		9.1	9.3	9.20	1 1	1.82	11.02				
8		9.7	9.7	9.70	0 0	1.87	11.57				
9		9.0	9.0	9.00	0 0	1.80	10.80				
10		9.7	9.8	9.75	1 0	1.87	11.62				
11		7.	7?	.		.					
12											
13											

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DM Series 72

Scale 4m DM 3167 alt. +2.2 S Bootis P.C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
Scale cracked a		B.			7.	7.9	7.9	7.9 0 0 -0.93 6.97
a'	43' 4.1	4.0	4.15	1.2 2.92 7.07		8.3	8.1	8.2 0 1 -0.97 7.23
a²	51' 4.9	4.8	4.95	1.2 2.60 7.55		8.8	8.8	8.8 0 0 -1.01 7.79
b	58' 5.6	5.6	5.70	1 1 2.35 8.05		9.2	8.9	9.0 5 2 1 -1.03 8.02
b'	63' 6.1	6.0	6.15	1.2 2.17 8.32		9.7	9.8	9.7 5 1 0 -1.06 8.69
c	71' 6.9	6.9	7.00	1 1 ~~2.02~~ 1.92 8.92		10.0	9.9	9.9 5 0 1 -1.05 ~~8.90~~
d	7.	7.0		1.92 8.92			10.0	-1.04 8.96
e		8.1		1.76 9.86			7.	
f		7.9		1.75 9.65				
f'		8.5		1.77 10.27				
g		8.8	8.8 8.80	0 0 1.78 10.58				
h		9.1	9.0 9.05	1 0 1.82 10.87				
k		9.4	9.7 9.55	2 1 1.85 11.40				
b	Def. more faint.	9.8	~~9.7~~ 9.9 9.85	0 1 1.88 11.73				
l'		9.9	9.8 9.85	1 0 1.88 11.73				
m		7.	7 .	. .				
n								
o								
p								
Var.		m.s.						

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MD Series 4'21

Scale by MD 3168 Alt +22° RS Bootis P. C.

		Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2		Curve	Magn
Scale cracked	α	.	B.					7.	7.2	7.3	7.25 01	-.083 +.642
4.4 (46.)	β	4.7 (49.)	4.4	4.3	4.55 03 2	2.76	7.31		8.8	8.6	8.70 11	-.100 +.770
	γ	7	7.1			1.88	8.98		10.1?	10.1?	10.10? 00	-.105 +.905
	δ	7.	8.1			1.76	9.86		7.	7	.	.
	b		7.8			1.77	9.57		9.9			-.106 .884
	b'		7.8			1.77	9.57		7.			
	d		8.8			1.78	10.56		7.			
	f		8.8			1.78	10.58					
	e		8.8			1.78	10.58					
	e'		9.2	9.1	9.15 01	1.82	10.97					
	c		9.7	9.7	9.70 00	1.87	11.57					
	g		9.8	9.8	9.80 00	1.88	11.68					
	h		9.9	9.9	9.90 00	1.89	11.77					
	k		10.2?	10.3?	10.30 00	1.95	12.25?					
	l		7.	7.	.	.	.					
	m		10.2?	10.3?	10.30 00	1.95	12.25					
	n		7.	7.	.	.						
Var.			8.7	8.7	8.70 00	1.78	10.48					

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MD Series 72

Scale m | MD 3169 | Alt +20 R.L. Boothe | P.C.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	4.9 5.1	5.1		5.10 00	2.56	7.66	7.	8.8	8.8	8.80 00	-1.01 7.79
6.1 2	6.2 6.4	6.0	6.1	6.20 12 2 1	2.16	8.36	9.5	9.7	9.3	9.30 02 2	-1.05 8.45
3	7.	7.2			1.86	9.06		10 9.0	10.0	10.00 00	-1.05 8.95
4		7.4	7.4	7.40 00	1.83	9.23		7			
5		8.2	8.2	8.20 00	1.76	9.96					
6		8.9	8.9	8.90 00	1.79	10.69					
6a	9.2	9.4	9.0	9.20 02 2	1.82	11.02					
7		9.8	9.8	9.80 00	1.88	11.68					
8		10.1?	10.1?	10.10 00	1.93	12.03?					
9		10.2?	10.1?	10.15 01	1.94	12.09?					
10		7									
11											
12											
Var		n.s?	n.s?								

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Wednesday October 21, 1914

HD Series 7/21

Scale Hn	HD 3170 Sc.1	Sc.2	Pole	Fe Sc.1	Fe Sc.2	
Scale cracked 5	.			7.	7.2	7.3 7.25 01
6	.	B.			8.0	8.0 8.00 00
8	5.8 6.0	6.2	6.10 11		9.1	9.0 9.05 10
9	6.7 6.9	7.0	6.95 10		9.9	9.9 9.90 00
10	7.0 7.2	7.1	7.15 01		10.0	10.0 10.00 00
11	7.	7.9			7.	7.
12		8.2				
13		8.5	8.4 8.45 10			
14		8.8	8.9 8.85 01			
15		9.0	9.0 9.00 00			
16		9.3	9.3 9.30 00			
17		9.9	9.9 9.90 00			
18		10.1?	10.2? 10.15 10			
19		7.	7.			
20						
22						
25						
26						

1.15

See p. 25

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1914phae.proj.1042M

Friday October 23, 1914

1.55 Series 326

Scale R mc 6326 Pole

	Sc.1	Sc.2		mc 6331 μ46	Mean	Diff			Sc.1	Sc.2		6331 μ46	Mean	Diff
5									7.9 87°	8.1	8.15 01	.	8.15	-164
6									8.7 90°	8.9	8.95 01	9.75	9.35	-224
8									7	10.3	10.3 00 00	10.80	10.55	-232
9										11.1	11.1 10 00	11.65	11.38	-258
10	5.1 54°			6.2	5.80	4 4	3.22		11.4	11.3	11.35 01	11.90	11.62	-260
11	6.0 63°			6.8	6.55	3 2	3.00		12.0			12.28	12.10	-253
12	6.8 71°			7.5	7.30	2 2	2.56		12.3			12.7	12.50	-264
13	7.2 75°			8.05	7.78	28 27	2.52		12.9			13.0	12.95	-268
14	7.8 81°	B.		8.75	8.42	32 33	2.23		13.4			13.7	13.55	-294
15	8.2 85°	8.1	8.3 8.30 22 0	9.20	8.75	45 45	2.33		13.4	13.7	13.55 21	14.0	13.78	-270
16	8.9 92°	9.1	9.15 01	9.9	9.52	37 38	1.88		14.0			14.0	14.00	-260
17	9.3 93°	9.3	9.30 00	10.1	9.70	40 40	1.93		7.			f	.	
18	7.	10.1		10.7	10.40	3 3	1.66							
19		10.7		11.0	10.85	1 2	1.57							
20		10.9	11.0 10.95 1 0	11.9	11.42	47 48	1.31							
23		11.8	11.8 11.80 00	11.9	11.85	05 05	1.49							
25		12.6	12.3 12.45 21	12.60	12.52	07 08	1.35							
26		13.1	13.1 13.10 00	12.90	13.00	10 10	1.33							
27		13.7	13.6 13.65 10	13.20	13.42	23 22	1.27							
28		13.9	13.9 13.90 00	13.30	13.60	30 30	1.51							
29		7.	7. .	13.90	13.90	. .	1.76							
30														

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1914phae.proj.1042M

Friday, October 23, 1914

Series 326

Scace R Inc 6327 118 N P C.

	Diff		Sc.1	Sc.2	Sc.3		Sc.1	Sc.2	
		3.7	3.4	1	3.8 3.5		7.	N.1	10.1 14.10 00
5	-1.66							10.2	10.1 10.15 01
5	-2.24	3.6	3.3	2	3.6 3.3			10.7	10.9 10.80 11
5	-2.32			3	5.2 4.9			11.4	11.7 11.55 21
8	-2.58			4	6.1 5.8			11.9	11.9 11.9000
2	-2.60			5	6.6 6.3			12.9	
0	-2.55			6	8.1 7.8	B.		13.2	
50	-2.64			7	8.2 7.9	8.2	8.20 00		
95	-2.65			8	8.4 8.1	8.1	8.25 21	13.3	
55	-2.90			9	8.8 8.5	9.0	8.90 11	13.5	
8	-2.70			10	7.	10.0		7.	
00	-2.60			11		11.8			
				12	11.7	11.3	11.7 11.57 13 1		
				13		12.3	12.6 12.45 12		
				14		12.7	12.8 12.75 10		
				15		13.1	13.1 13.10 00		
				16		13.6	13.4 13.50 11		
				17					

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1914phae.proj.1042M

Friday, October 23, 1914

Series 326

Scale R. Inc. 63 28 ○ Ceti Ref. Seq. $2^{h}10-25$ P.C.

	Sc.1	Sc.2			Sc.1	Sc.2		
					7.	11.1	11.2	11.15 10
2	5.9					11.5	11.5	11.50 00
3	6.7		B.			11.9	11.9	11.90 00
4	7.0		B.			12.3	12.3	12.30 00
5	7.9		8.1	8.15 01		12.9	12.9	12.90 00
6	8.2		8.1	8.5 8.42 21 31		13.2		
7	7		9.7			14.0		
8	7.		9.7			7.		
9			10.6					
10			10.3					
11			10.6					
12			10.8					
13			11.6					
14			11.5					
15			11.8					
16			12.3	12.4 12.35 01				
17			12.9	12.9 12.90 00				
18			13.1	13.1 13.10 00				
19			13.4	13.2 13.30 11				
20			13.9	13.9 13.90 00				

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1914phae.proj.1042M

Friday, October 23, 1914

Series 326

Scale R mc 6328 o Ceti P.E.

		Sc.1	Sc.2		Sc.1	Sc.2
	±	B.			7.6 7.4	B.
Double.	t'			h. meas.	7.9	8.0
B.	y	B.			8.1	8.2
3.1	y	3.1	340 00		8.7	8.9
1.8	z	1.1	135 10		8.7	8.8
	z'	3.2			7.	9.9
	α	3.1				9.96 01
	α'	3.1				10.0 9.9
	β	4.9				9.75 10
	β'	See no. 1 p. 40				9.7 9.8
	δ	6.1				10.7
	δ'	6.8	B.			11.4
7.0	ε	6.7	B.			12.2
	ε	7.9	8.0	8.10 11		12.3
	β	8.3	8.4	8.50 11		13.1
	γ	8.4	8.9	8.80 11		13.2
	θ	9.4	9.7 9.3			13.8
						13.9
Var.		6.9	B.			12.60 12.6

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Friday October 23, 1914

Series 326

Scale R Inc. 6329 Carte 2.0 + 17.5 P. C.

	Sc.1	Sc.2		Sc.1	Sc.2
1	4.9 5.2			F.	10.9 10.8
2	6.3 6.6				12.9 12.2
3	7.1 7.4	B.			12.2 12.3
4	7.9 8.2	8.0			12.9 12.9
5	7.9 8.2	8.0			13.0 12.9
6	9.0 9.3	9.3			13.8
7		10.7			F.
8		11.6			
9		11.8			
10		12.3			
11		12.2	12.3		
12		12.8	12.9		
13		13.1	13.2		
14	13.2	13.6	13.2		
15		13.7	13.6		

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1914phae.proj.1042M

Friday, October 23, 1914

Series 326

Scale R mc 6330 Carte 2.0 +31.5 : Pc.

	Sc.1	Sc.2		Sc.1	Sc.2	
1	5.2 5.5			7	11.2	11.1
2	5.3 5.6				11.3	11.4
3	5.7 6.0				11.5	11.3
4	6.1 6.4				11.9	12.0
5	6.4 6.7				12.4	12.6
6	7.1 7.4				13.4	
7	7.8 8.1				13.6	13.7
8	7.9 8.0	B			13.2	13.3
9	8.3 8.6	8.8			7.	14.0
10	8.8 9.1	9.1			14.0	
11	7.	10.0			14.1?	
12		10.6			7.	
13		11.6				
14		12.0				
15		12.3				
16		12.4	12.7			
17		12.8	12.8			
18		13.3	13.3			
19		13.7	13.7			
20		13.3	13.3			

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1914phae.proj.1042M

Friday, October 23, 1914

Inc Series 326

Scale R. Inc. 6331 Pole

	Sc.1	Sc.2		P. C. Sc.1	P. C. Sc.2	
5	.	.		.	.	Surf. on star im
6	.	.		7.	9.8	9.7 9.75 01
8	.	.			10.7	10.9 10.80 11
9	.	.			11.6	11.7 11.65 01
10	5.9 67.			wrong star?	~~10.2~~ 11.9	11.9 11.90 00
11	6.5 68.	B.			12.1	12.3 12.20 11
12	7.5 75.	R.			12.7	
13	7.8 81.	8.0	8.05 10		13.0	
14	8.5 88.	8.7	8.75 01		12.7	
15	9.3 93.	9.1	9.20 11		14.0	
16	7	9.9			14.0	
17		10.1			7.	
18		10.7				
19		11.0				
20		11.9				
23		11.9				
25		12.6	12.6 12.60 00			
26		12.9	12.9 12.90 00			
27		13.1	13.3 13.20 11			
28		13.3	12.3 13.30 00			
29		12.9	13.9 13.90 00			

4.38

Surf 88 Hb

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1914phae.proj.1642M

Monday. October 26, 1914

10.20

Series 298

Scale mc 5989 Pole

Reject third Pole Plate
Reduce with 5994 + 5989 P.C.

	Sc.1	Sc.2	mc 6000 μs6	Mean				Sc.1	Sc.2	mc 6000 μs6	Mean	D.
5								7.9	8.1	8.15 01	8.90	8.52 - 2.03
6								8.8	9.1	9.10 00	9.25	9.18 - 2.07
8								7	10.3	10.30 00	11.00	10.65 - 2.42
9									11.4	11.60 00	11.70	11.65 - 2.82
10	5.1		5.4	6.4	6.05	3	4	2.97	11.7	11.7	11.70 00	11.90	11.80 - 2.78
11	6.4		6.4	6.8	6.60	2	2	2.95	12.6	12.8	12.70 11	12.7	12.70 - 3.15
12	6.7		7.0	7.4	7.20	2	2	2.66	12.9	Reduction below		12.9	12.90 - 3.04
13	7.6		7.5	8.1	7.85	2	3	2.45	12.7			13.1	13.40 - 3.10
14	7.8	B.	7.9	8.20	8.15	05	05	2.50	12.9			13.7	13.80 - 3.15
15	8.3	8.3	8.45 21	8.40	8.80	8.62	17	18	2.46	7.		14.1?	14.10? - 3.02
16	8.7	9.1	9.15 01	9.00	9.58	9.36	21	22	2.04				
17	7	9.4		9.3	9.9	9.65	2	3	1.98				
18		10.3		10.1	10.8	10.55	3	2	1.51				
19		10.7		10.3	10.8	10.75	1	0	1.67				
20		11.4		10.9	11.30	11.35	05	05	1.38				
23		12.0	11.9	11.95 01	11.7	12.30	12.12	17	18	1.22			
25		12.7	12.7	12.70 00	12.30	12.90	12.80	10	10	1.07			
26		13.2	13.3	13.25 01	12.95	13.40	13.32	07	08	1.01			
27		13.7	13.7	13.70 00	13.55	13.75	13.72	02	03	0.97			
28		13.9	13.7	13.90 00	13.80		13.90	2		1.21			
29		7.	7.		13.90								

	mc 5994	mc 6000	Mean			Diff
5	8.15	8.00	8.90	8.35	20	35 55 - 1.86
6	9.10	8.90	9.25	9.08	02	18 17 - 1.97
8	10.30	10.25	11.00	10.52	22	27 48 - 2.29
9	11.50	11.00	11.70	11.40	10	40 30 - 2.57
10	11.70	11.70	11.90	11.77	07	07 13 - 2.75
11	12.70	11.8	12.7	12.27	40 30	60 30 - 2.85
12	12.9	12.6	12.9	12.80	1	2 14 - 2.94
13	13.7	13.1	13.1	13.30	42	2 - 3.00
14	13.9	13.4	13.7	13.70	23	0 - 3.05
15	?	13.7	14.1?	13.90	4	2 - 2.82

1914phae.proj.1042M

Monday, October 26, 1914

alt. +.15

Series 298

Scale R Inc. 5990 Im 15

	Sc.1	Sc.2		Curve.	Magn	Sc.1	Sc.2		Curve.	Magn
1	4.2					7.	10.4	10.4	10.40 00	-2.38 8.02
2	5.7			3.00	9.00	3.26	9.26	11.8	11.9	11.85 01	-2.83 9.02
3	6.8		7.10 00	2.75	9.85	2.93	10.03	12.9	12.9	12.90 00	-3.04 9.86
4	6.5			2.83	9.63	3.02	9.82	12.7	12.9	12.80 11	-3.02 9.78
5	6.8			3.00	10.00	2.93	10.03	13.1	13.1	13.10 00	-3.06 10.04
6	7.8	B.		2.48	10.58	2.62	10.72	13.9			-3.08 10.82
7	7.5	8.0	8.00 00	2.50	10.50	2.66	10.66	13.9			-3.08 10.82
8	8.1	8.6	8.47 11	2.37	10.84	2.52	10.99	14.0			-3.06 10.94
9	7.	9.4		2.03	11.43	2.23	11.63	7.			
10	7.	9.9		1.85	11.75	2.07	11.97				
11		10.4		1.85	12.05	1.89	12.29				
12		10.5		2.03	12.13	1.86	12.39				
13		10.7		2.05	12.25	1.80	12.50				
14		11.2		1.88	12.58	1.64	12.84				
15		11.7		1.26	12.96	1.55	13.21				
16		11.9	11.90 00	1.23	13.13	1.57	13.37				
17		12.6	12.70 11	1.07	13.77	1.29	13.99				
18		13.2	13.20 00	1.02	14.22	1.22	14.42				
19		14.0	14.00 00	1.05	15.05	1.50	15.50				
20		13.8	13.85 01	1.04	14.89	1.34	15.19				

	PC	Cu.
1	-2.21	8.19
2	-2.70	9.15
3	-3.09	9.81
4	-3.07	9.73
5	-3.14	9.96
6	-3.35	10.55
7	-3.35	10.55
8	-3.38	10.62

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Monday October 26, 1914

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Series 298

Scale R. Inc 5992 Nova Lacertae Ref. Seq. : P. C.

	Sc.1	Sc.2		Cu	Sc.1	Sc.2		Cu.	Magn
1	4.0 (4.3)			.	. 7.	10.7	10.6 10.65 10	-2.29	8.36
2	5.1 (5.4)			3.41	8.81	11.2	11.2 11.20 00	-2.48	8.72
3	5.9 (6.2)			3.21	9.41	12.3	12.2 12.25 10	-2.86	9.39
4	5.7 (6.0) 5.7 (6.0)		6.00 00	3.26	9.26	11.9	12.0 11.95 10	-2.73	9.22
5	5.9 (6.2)			3.21	9.41	12.6	12.4 12.50 11	-2.96	9.54
6	6.3 (6.6)			3.08	9.68	12.9		-3.09	9.81
7	7.1 (7.5)			2.82	10.32	12.9		-3.09	9.81
8	7.4 (7.7)	B.		2.75	10.45	13.7		-3.31	10.39
9	7.7 (8.0)	B		2.66	10.66	13.5		-3.26	10.24
10	8.1 (8.4)	8.1	8.25 21	2.60	10.85	14.3?		.	.
11	8.9 (9.2)	9.4	9.30 11	2.28	11.58	14.0?		-3.38	1062?
12	7.	9.9		2.06	11.96	14.2?		-3.39	1081?
13	7.	10.4		1.89	12.29	7.		.	.
14		10.9		1.73	12.63				
15		11.4		1.59	12.99				
16		12.4	12.4 1240 00	1.34	13.74				
17		12.7	12.4 12.55 12	1.31	13.86				
18		12.9	12.9 1270 00	1.25	14.15				
19	13.3	13.2	13.6 13.37 12 2	1.21	14.58				
20		13.6	13.7 1365 01	1.23	14.88				

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1914phae.proj.1042M

Shuk 98 a

Monday October 26, 1914

Series 298

Scale R MC5994 Pole MC5989 p.47 Pc MC5989 p.47

	Sc.1	Sc.2				Sc.1	Sc.2			
5	.	.		.		7.7 8.0	8.0	8.00 00	8.15	808 0505
6	.	.		.		8.6 8.9	8.9	8.90 00	9.10	900 1010
8	.	.		.		7	10.3	10.25 10	10.30	1028 0302
9	.	.		.	Diff.		11.0	11.00 00	11.50	1125 2525
10	5.1 5.4°			5.7 5.55	2 1 3.47		11.7	11.7000	11.70	1170 0000
11	6.1 6.4°			6.4 6.40	00 3.15		12	~~12.70~~	12.70	
12	6.7 7.0°			7.0 7.00	00 2.86		12.6	~~12.9~~	12.9	
13	7.2 7.5°			7.6 7.55	1 0 2.75		13.1	~~13.7~~	13.7	
14	7.6 7.9°	B.		8.1 8.00	1 1 2.65		13.4	~~13.9~~	13.9	
15	8.1 8.4°	8.4	8.40 00	8.45	842 02 03 2.66		13.7	~~X~~	7	
16	8.8 9.1°	8.9	9.00 1 1	9.15	908 08 07 2.32		7.			
17	7.	9.3		9.4	9.35 1 0 2.28			Diff Pc		
18	7.	10.1		10.3	10.20 1 1 1.86			5 _ 1.59		
19		10.3		10.7	10.50 2 2 1.92			6 _ 1.89		
20		10.9		11.4	11.15 3 2 1.58			8 _ 2.05		
23		11.7		11.95	11.82 12 13 1.52			9 _ 2.42		
25		12.3	12.3 1230 00	12.70	12.50 20 20 1.37			10 _ 2.68		
26		12.9	13.0 1295 10	13.25	13.10 15 15 1.23			11 _ 3.15		
27		13.7	13.4 13.55 12	13.70	13.62 07 08 1.07			12 _ 3.04		
28		13.8	13.8 13.80 00	13.90	13.85 05 05 1.26			13 _ 3.40		
29		13.9	13.9 13.90 00	4	13.90 a . 1.76			14 _ 3.25		
30										

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Monday October 26, 1914 Spid Bk 92 : 118

Alt. +.22

Series 298 See page 49 - Measured in order 2 for mc 5994

Scale R mc 5994 Nova Lacertae ~~25 50 75~~ P.C.

	Sc.1	Sc.2	Cu.					Sc.1	Sc.2	Cu.		
1	.	.	.					.	.	.		
2	B.	.	.					5.9 6.7 5.9 6.7		6.20 00	.	
3	.	.	.					.	.	.	.	
4	B.	.	.					6.7 7.0 6.7 7.0	B.	700 00	.	
5	B.	.	.					7.9 8.7 8.0 8.3	8.1	8.25 01 1	1.67	6.53
6	.	.	.					.	.	.	.	.
7	.	.	.					.	.	.	.	.
8	3.9 4.7	.	.					9.0 9.3	9.2	9.25 10	1.89	7.36
9	.	.	.					.	.	.	.	
10		.	.					7.	9.8 9.9	9.85 01	2.03	7.82
11	2.9 3.7	.	.						11. 9.8		2.02	7.78
11a	4.8 5.1		3.50	8.60					11a 10.6		2.28	8.32
12	4.9 5.2		3.46	8.66					12. 10.9		2.37	8.53
13	4.5 4.8		.	.					13. 10.8		2.34	.
14	5.7 5.7		3.33	9.03	29.	10.9	1.73	12.63	14. 10.9		2.37	8.53
15	5.3 5.6		3.35	8.95	30.	11.4	1.59	12.99	15. 11.1		2.43	8.67
16	5.8 6.1		3.23	9.33	31.	11.3	1.62	12.92	16. 11.8		2.69	9.11
17	6.8 7.1		2.93	10.03	32.	11.9	1.47	13.37	17. 12.4		2.92	9.48
18	6.7		3.04	9.74	33.	11.8 12.4	1.49	13.29	18. 12.0		2.84	9.36
18'	6.4								18' 12.2			
19	7.3 7.6	B.	2.79	10.39	34.	11.9	1.47	13.37	19. 13.0		3.12	9.88
20	7.4 7.7	B.	2.75	10.45	35.	12.4 12.7	1.35 3 1 1 12.3	13.78	20. 13.3		3.20	10.10
21.	7.9 8.2	8.1	8.15 01	2.61	10.76	36.	13.10 0 13.1 13.1	12.2	14.32	21. 13.7		3.30	10.40
22	8.6 8.9	8.8	8.95 12	2.33 40	11.35	37.	13.25 10 13.3 13.2	12.1	14.46	22. 7.		.	.
23	8.7 8.9	9.1	9.05 01	2.37 1	11.36	38.	13.55 1 13.4 13.7	12.2	14.77				
24	7.	9.8		2.10	11.90	39.	13.90 00 13.9 13.9	14.0	15.30				
25		9.7		2.13	11.83		13.95 01 14.0 13.9	14.7	15.42				
26		11.1		1.68	12.78			.	.				
27		10.5		1.87	12.37	Da.	12.80 00 12.8 12.8	12.8	14.28	7.			
				1.82	12.42								

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Monday October 26, 1914

Ruled for Succs Magn. May be used for Rel. Magn.

Series 298

Scale R. 4mc 5995 22 50 -7.5

	Sc. 1	Sc. 2		P.C. Sc. 1	P.C. Sc. 2	
1	3.3			8.9	9.1	
2	4.5			7.	10.4	10.6
3	4.7				10.8	10.8
4	5.1				10.9	10.8
5	5.7				11.9	11.7
6	6.8				12.7	
7	6.7				12.7	
8	6.9	B.			12.9	
9	7.4	B.			13.7	
10	7	8.9			7.	
11		10.4			7.	
12		10.7				
13		11.5				
14		11.9				
15		12.1				
16		13.1	13.0			
17		12.9	12.8			
18		13.2	13.1			
19		13.2	13.4			
20		13.0	13.0			

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1914phae.proj.1042M

Monday October 26, 1914

Reprint for Sines. Use for Rel. Mags

Series 298

Scale R mc 5997[6] 23.40 +30

	Sc.1	Sc.2		Pe. Sc.1	Pe. Sc.2	
1	4.8 5.1			7.	10.8	10.9
2	5.2 5.5				11.5	11.7
3	5.3 5.6				11.6	11.7
4	6.1 6.4				12.6	12.7
5	6.5 6.9				12.8	12.6
6	7.0 7.3	B.			13.3	
7	6.9 7.2	B.			13.0	
8	8.8 9.1	8.9			7.	
9	7.	9.7			7.	
10		10.9				
11		10.9				
12		11.6				
13		12.2				
14		12.7	12.8			
15		12.9	12.8			
16		13.4	13.7			
17		13.8	13.8			
18		13.8	13.7			
19		7.	14.2?			
20		7.	13.9?			

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Monday October 26, 1914

Reprinted from Series.

Series 298

Scale R	mc 5997 Sc.1	mc 5997 Sc.2	R Cassiop.	Ref. Seq.	P.C. Sc.1	P.C. Sc.2	
	1 4.9 5.7				10.9	11.1	11,00 11
	2 6.4 6.7				11.7	11.7	11.70 00
6.2 6.5	3 6.3 6.6				12.0	12.0	12.00 00
	4 6.6 6.9				12.7	12.8	12.75 10
6.4 6.7	5 6.4 6.7				12.2	12.3	12.25 01
	6 7.2 7.5	B.			13.1		
	7 8.3 8.6	8.7	8.65 01		13.7		
	8 8.0 8.3	8.1	8.20 11		7.		
	9 8.8 9.1	9.0	9.05 10				
	10 7.	9.7					
	11 7.	10.4					
	12	10.5					
	13	10.9					
	14	11.1					
	15	11.9					
	16	11.9	11.9	11.90 00			
	17	12.8	12.7	12.75 01			
	18	12.9	13.1	13.00 11			
	19	13.7	13.5	13.60 11			
	20	13.7	13.8	13.75 10			

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Monday October 26, 1914

Rejected from Series.

Series 298

Scale R	m c ~~5997~~ ~~Pole~~			R Cassiop		
	Sc.1	Sc.2		Sc.1	Sc.2	
g	3.0 3.3			8.9 9.2	9.2	9.15 01
h	1.1 1.4			8.7 9.0	8.7	8.85 21
k	3.8 4.1			7.	10.2	
l	5.1 5.4			7	11.1	11.2 11.15 10
m	4.9 5.2 4.8 5.1		5.15 01		10.9	10.9 10.90 00
n	5.9 6.2				11.7	11.9 11.80 11
n'	6.6 6.9				12.7	12.6 12.65 10
n^2	7.4 7.7	B.			12.5 12.8 ~~13.7~~	12.65 12
o	7.9 8.2	8.1	8.15 01		13.8	13.7 13.75 01
o'	7.9 8.2	8.0	8.10 11		13.9	13.2 13.05 12
p	7.	10.1			7.	7.
q	8.8 9.1	8.8	8.95 12			
r	8.8 9.1	9.1	9.10 00			
s	7.	10.1				
t		10.8				
t'		10.7				
u		11.2				
w		11.9				
w'	12.5	12.6	12.2 12.73 12.22			
x		12.9	12.8 12.85 10			
y		12.9	12.8 12.85 10			
z		13.0	13.1 13.05 01			
α		13.9	13.8 13.85 10			
Ua	5.0	B.			11.5	

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Monday, October 26, 1914

Series 298

Scale R Tone 6000 Pole

	Sc.1	Sc.2		P.C. Sc.1	P.C. Sc.2	
5				8.8 9.1	8.7	8.90 2 2
6				9.0 9.3	9.2	9.05 1 0
8				7.	10.9 11.1	11.00 1 1
9					11.7 11.7	11.70 0 0
10	6.1 6.4				11.9 11.9	11.90 0 0
11	6.5 6.8					
12	7.1 7.4					
13	7.8 8.1	13.				
14	8.0 8.3	8.1	8.20 1 1			
15	8.4 8.7	8.9	8.80 1 1			
16	9.2 9.5 9.0 9.3	9.8	9.7 9.58 1 3 2 1			
17	7.	9.9				
18		10.8				
19		10.8				
20		11.3	11.3 11.30 0 0			
23		12.3	12.3 12.30 0 0			
25		12.9	12.9 12.90 0 0			
26		13.3	13.5 13.40 1 1			
27		13.6	13.9 13.75 2 1			
28		~~13.+~~	.			
29			7.			
30						

Too faint. Sm. Foggy.

(25 m out)
3.25

Safe 47

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1914phae.proj.1042M

Tuesday, October 27, 1914

1.45 T' Plates for Circumpolar Variables S Bootis

Scale R D 36182 N.P.S. P.C.

	Sc.1		Sc.2		Diff	Sc.1	Sc.2		Diff
5m. slong	55.0	5.3			1.19	7 5m. slong.	11.8	11.7	11.75 01 -5.26
6	5.6	5.9	B.		1.21		12.4	12.3	12.35 01 -5.24
7	7	8.0	B.		0.23		13.7	13.6	13.65 10 -5.42
9	8.5	8.6	8.7	8.75 01	0.08		14.0	14.0	14.00 00 -5.17
10	8.4	8.7	8.8	8.75 10	0.27		14.0	14.0	14.00 00 -4.98
11	7.		9.8		-0.25		7.	7	, ,
12	7.		9.9		-0.04				
13			10.6		-0.30				
14			11.1		-0.45				
15			11.6		-0.52				
16			11.7		-0.30				
17			12.2		-0.57				
18		12.4	12.8	12.4	12.53 13 1 -0.47				
19			12.9	12.9	12.90 00 -0.48				
20			13.2	13.2	13.20 00 -0.47				
23			13.8	13.7	13.7501 -0.41				
25			14.0	14.0	14.00 00 -0.13				
26			7	7	, ,				
27									
28									
29									
30									

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1914phae.proj.1042M

Tuesday, October 27, 1914

Copied on sheets : (circum. var.)

7' Plate

Scale R S 36182 S Bootis wt. −0.05 P.E.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
a	5.3	B.	1.17	6.77	7.	12.1	12.1	12.10 00 −5.26 6.84
a'	6.2		0.87	7.37		12.7	12.7	12.70 00 −5.32 7.38
a²	6.9		0.62	7.82		13.2	13.3	13.25 01 −5.35 7.90
b	7.7	B.	0.33	8.33		13.7	13.7	13.70 00 −5.31 8.39
b'	8.1	8.1	8.25 2	0.26 8.51		14.0	13.9	13.95 01 −5.23 8.72
c	8.7	8.9	8.95 0	0.05 9.00		14.0	13.9	13.95 01 −5.23 8.72
d	8.9	9.1	9.15 0	0.00 9.15		7.	7.	. . .
e	7.	10.3		−0.27 10.03				
f	7.	10.1		−0.23 9.87				
f'		10.9		−0.39 10.51				
g		11.2		−0.43 10.77				
g₂		11.8		−0.47 11.33				
k		11.9		−0.48 11.42				
l		* 12.4	12.4	12.40 00 −0.51 11.89				
l'	Defective	~~12~~	.	. .				
m		13.2	13.1	13.15 01 −0.50 12.65				
n		13.7	13.6	13.65 10 −0.42 13.23				
o		13.7	13.7	13.70 00 −0.40 13.30				
p		13.9	13.9	13.90 00 −0.34 13.56				
q		7.	7.	. . .				
r		7.		. . .				
s								
n'								
n²								

Sc.2

k	12.1
* l	12.3
m	13.2

*Remeasured Jan. 31, 1916. Discordance evidently not due to mistake of unit, or accidental error. Image does not compare very well - sharp.

Var. 11.5 11.5 −0.46 11.04 7.

2.37

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1914phae.proj.1042M

Tuesday October 27, 1914

2.48 T' Plate for Circumpolar Variable S Bootis

Scale R J 36142 M.P.S. P.C.

		Sc.1	Sc.2		Diff	Sc.1	Sc.2		
Im. elong	5	.	.			7. 11.5	11.8	11.4	11.57 1.22 -.508
	6	5.5 (5.9)	B.		1.31		12.3	12.3	12.25 01 -.514
" "	8	.	.		.		13.7	13.4	13.55 12 -.532
" "	9	.	.		.		13.9	13.9	13.90 00 -.507
	10	8.2 (8.5)	8.5	8.50	00 .052		7.	7.	. .
	11	9.1 (9.4)	9.8	9.2	9.47 1.33 .008				
	12	7.	9.9		-.004				
	13		10.4		-.010				
	14		10.8		-.015				
	15		11.3		-.022				
	16		11.7		-.030				
	17		12.0	11.9	11.95 01 -.032				
	18		12.3	12.3	12.30 00 -.024				
	19		12.9	12.8	12.85 10 -.043				
	20		12.9	12.9	12.90 00 -.017				
	23		13.7	13.8	13.75 10 -.041				
	25		14.1?	14.1?	14.10 00 -.023				
	26		7.	7.	. .				
	27								
	28								

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1914phae.proj.1042M

Tuesday, October 27, 1914

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T Plate for Circumpolar Variable 8 Boötis

Scale R. ♀ 36 14 20 8 Boötis alt. −0.06 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
a	5.4 5.7			1.36	7.06	7.	12.3	12.6	12 45 12 − 5.14	7.31
a′	5.9 6.2			1.18	7.38		12.9	13.8	12 85 10 − 5.16	7.69
a^2	6.8 7.1		B.	0.98	8.08		13.2	13.2	13 20 00 − 5.15	8.05
f	7.7 8.0		B.	0.65	8.65		13.9	13.8	13 85 10 − 5.13	8.72
f′	8.2 8.5	8.4	8 45 10	0.47	8.92		14.3	14.1	14 10 00 − 5.10	9.00
c	8.8 9.1	9.0	9 05 10	0.25	9.30		7.	7.	. . .	
d	9.0 9.3	9.4	9 35 10	0.14	9.49					
e	7.	10.7		−0.15	10.55					
f	7.	10.3		−0.08	10.22					
f′		10.8		−0.17	10.63					
g		11.3		−0.24	11.06					
g_2		11.7		−0.26	11.44					
k		12.1		−0.29	11.81					
l		12.8		−0.30	12.50					
l′		12.8	12.7	12 75 11	−0.30	12.45				
m		13.2	13.2	13 20 00	−0.30	12.90				
n		13.7	13.5	13 60 11	−0.30	13.30				
o		14.0	13.7	13 85 21	−0.30	13.55				
p		7.	14.3?		−0.30	14.00				
q		14.3?	14.2?	14 25 10	−0.30	13.95				
r										
s										
t										
t^2										
Dec	7	11.7	11.8	11 75 10	−0.26	11.49	7.			

3.26

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Monday, November 2, 1914

12·30 T Plate For Circumpolar Variable o Ceti

Scale R. I 34315 N.P.S. P.C.

	Sc.1	Sc.2		Diff	Sc.1	Sc.2		Diff.
5	.	.			7.	10.9	10.90 00	-4.41
6	.	.			Elongated	.	.	.
8	.	.				12.7	12.70 00	-4.47
9	.	.				13.3 13.1	13.20 11	-4.37
10	7.9 (8.7)	8.3	8.25 01	0.77		13.7 13.7	13.70 00	-4.68
11	8.4 (8.7) (8.6)	8.2 8.2	8.42 33	1.13		14.0? 14.0	14.00 00	-4.45
12	8.8 (9.1)	9.0	9.05 10	0.81		14.0?		-4.45 (14)
13	7.	9.7		0.60		7.		.
14	7.	10.1		0.55				
15		10.3		0.78				
16		10.9		0.50				
17		11.1		0.53				
18		11.8		0.26				
19		11.9		0.52				
20		12.4		0.33				
23		12.9	13.0 12.95 10	0.39				
25		13.4	13.6 13.50 11	0.37				
26		13.9	13.8 13.85 10	0.48				
Wrong star first 27		13.9 (14.0)	13.7 12.80 11	0.89				
Ident. uncertain 28		14.1?	14.1? 14.10 00	1.01				
29								

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1914phae.proj.1042M

Monday November 2, 1914

T Plate for Circumpolar Variable

~~Scale I 34~~ R. I 34315 ○ cote P.C.

	Sc.1	Sc.2		Curve Magn	Sc.1	Sc.2		Magn
t	37.40				7.	10.0	10.1	10.05 01 .
Double t'	.				Double t. meas.	10.6?	10.6	10.60 00 -.438 6.22
Im. long.	ζ .					10.8	10.7	10.75 01 -.439 6.36
ψ	5.9 67.					11.3	11.0	11.15 12 -.443 6.72
ζ	4.9 67.					11.1	11.1	11.10 00 -.443 6.67
z	5.9 67.				Im. long.	11.9	11.8	11.85 10 -.448 7.37
α	6.2 65.					11.9		-.448 7.42
α'	6.2 65.					11.9		-.448 7.42
β	7.1 74.	B.				12.7		-.451 8.19
β'	7.9 82.	B.		1.04 9.24 (3) 9.06		12.7		-.451 8.19
δ	8.1 84.	8.4	8.40 00	0.97 9.37		13.7		-.446 9.24
δ'	8.8 91.	9.0	9.05 10	0.83 9.88	7.	.		. .
γ	8.3 86.	8.9	8.75 21	0.88 9.63		13.8		-.444 9.36
ε	7.	9.9	9.9 9.90 00	0.66 10.56		14.0?		-.442 9.58
ζ	7.	10.3	10.3 10.30 00	0.60 10.90				
η	7.	10.4	10.4 10.40 00	0.58 10.98				
Var.	3.4 37.	B				9.3	9.3	9.30 00

1.27

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1914phae.proj.1042M

Tuesday November 3, 1914

3.50 T' Plate for Circumpolar Variables P Cassiopeiae

Scale R. hr 2035 N.P.S. P.C.

	Sc.1	Sc.2	Diff.	No P.C. on this plate
5	5.9 67.	B.	0.29	
6	7.1 77.	B.	-0.59	
8	7.	10.0	-1.77	
9		10.8	-1.97	
10		11.3	-2.28	
11		11.8	-2.25	
12		12.2	-2.34	
13		12.8 12.9	12.85 0.1 -2.55	
14		13.2 13.4	13.30 ± 1 -2.65	
15		13.4 13.4	13.40 0.0 -2.32	
16		13.8 13.7	13.75 0.1 -2.35	
17		14.0 13.9	13.95 0.1 -2.32	
18		14.1? 14.0	14.05 1.0 -1.99	
19		7.		
20				
23				
25				

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Tuesday, November 3, 1914

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T' Plate for Circumpolar Variable R Cassiopeiae

Scale R Dec 20 35' R Cassiop Alt. −0.02 P.C.

No P.C. on this plate.

	Est.	Est.	Curve	Magn
g	7.9 8.2	B.	−0.89	7.31
h	6.9 7.2	B.	7h 20m 00s −0.33	6.87
k	7.	9.5	−1.49	8.01
l	7.	10.8	−2.02	8.78
m	7.	10.9	−2.08	8.85
n		11.8	−2.34	9.46
n'		12.0	−2.38	9.62
n^2		12.6	−2.47	10.13
o		12.9 7.	−2.48	10.42
o'		12.9 12.9	12h 90m 00s −2.48	10.42
p		14.0 13.9	13h 95m 01s −2.20	11.75
q		13.6 13.3	13h 45m 21s −2.44	11.01
r		13.8 13.7	13h 75m 01s −2.31	11.44
s		13.7 14.0	13h 85m 12s −2.27	11.58
t		7. 7.	, , ,	
t'				
u				
w				
w'				
Var.		7.		

H.28

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1914phae.proj.1042M

Wednesday November 4, 1914

11.25 mc Plate for R Tus. Maj. to be Reduced by Reference Sequence

Scale R. mc 5349 Ref. Seq. P.C.

	Sc.1	Sc.2	Mean.	Magn Ref Seq OB6:119	Magn - Scale Diff	Sc.1	Sc.2	OB6:119	Diff
	4.0			7.41		9.4			
1	3.7			7.26	3.41	9.1	9.2	9.30 11	7.41 -1.89
	5.4			8.58		7.			2
2	5.1			8.43	3.18		10.9	10.90 00	8.58 -2.35
	6.4			9.19	7			19	71
3	6.1			8.97	2.59		11.9	11.90 00	9.48 -2.50
	7.6			10.17	57			17	78
4	7.3	B.		10.01	2.74		12.9	12.95 10	10.34 -2.64
	8.6						13.9		10.73 3.17
5	8.3	8.8	8.70 11	10.73	2.03		13.9	13.90 00	11.46 -2.74
	9.2						7		
6	8.9	8.9	9.05 21	11.16	2.11				
7	7	11.2		12.58	1.38				
8		11.8		13.42	1.62				
9		12.3		13.80	1.50				
10		12.9	12.8 12.85 10	13.99	1.14				
11		13.6	13.5 13.55 01	14.69	1.14				
12		13.3	13.4 13.35 10	14.69	1.34				
13		13.8	13.6 13.70 11	14.75	1.05				
14		13.7	13.8 13.75 10	15.13	1.38				
15		7.	7. .	.	.				
6a	7.	9.9		11.45	1.55		7.		
6b	7.	10.8		12.26	1.46		7.		

Plot sheet 9 Corum Yat System

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1914phae.proj.1042M

Wednesday, November 4, 1914

Scale R. Mc 5349 (cont.) R Curv. Mag. P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		
a	3.5 3.8					8.6 8.9	9.1	9.00 1.1	-1.82 7.18
d	Seeno. 1 p. 65						9.30		-1.89 7.41 2.37 +19
Too far from centre g	.					7.	11.2	11.3 11.25 0.1	-2.44 8.81
h	4.8 5.1					7.	10.7	10.8 10.75 1.0	-2.30 8.45
k	6.9 7.2			2.60	9.80		12.6	12.7 12.65 0.1	-2.82 9.83
l	5.8 6.1			.	.		11.8	11.6 11.70 1.1	-2.57 9.13
Im. peculiar l'	6.4 6.7			2.74	9.44		12.8		-2.87 9.93
Too far from centre m	.			.	.		13.1		-2.94 10.16
m'	7.8 8.1			2.30	10.30		12.5		-3.02 10.48
Im. peculiar n	7.7 ? 8.0		B.	2.33	10.33?		13.7		-3.06 10.64
o	7.7 8.0	8.0	8.00 00	2.33	10.33		13.6		-3.05 10.55
o'	8.3 8.6	8.7	8.65 0.1	2.10	10.75		13.7		-3.06 10.64
Im. peculiar o²	.			.	.	7.			.
p	8.8 9.1	9.1	9.10 00	1.94	11.04				
q	9.2 9.5	9.8	9.65 1.2	1.77	11.42				Remeasured Jan. 11, 1915 9.7m.
r	7.	10.2		1.63	11.83		P.C.		
s		10.8		1.50	12.30	a	9.1		
t		11.1		1.45	12.55	* d	9.6		
w		12.1		1.33	13.43	g	11.3		
w'		12.7	12.7 12.70 00	1.25	13.95				
w'		12.8	12.8 12.80 00	1.24	14.04				
x		13.1	13.0 13.05 1.0	1.22	14.27				
y		13.7	13.7 13.70 0.0	1.16	14.88				
z		13.9	14.0 13.95 1.0	.	.				
Var.	6.0		B.	‡ 2.96	8.96	7.	12.0	13.0	-2.64 9.36

11.24

‡ Curve extended by H.S.P. Nov 30, 1915 in order to use mean of year

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1914phae.proj.1042M

Monday November 9, 1914.

10.00 Series MD 121

Scale MD 3819 Pole P.E.

	Sc.1		Sc.2	MD 3825 μ70	Mean	Diff.	Sc.1	Sc.2		MD 3825	
5	4.8 5.1			5.2	5.15	10 134	7	10.4	10.4 10.40 00	10.35	10.38 -389
6	6.2 6.5	B		7.0	6.75	32 036		11.1	11.2 11.15 10	11.30	11.22 -411
8	9.0 9.3		9.1	9.20	11	9.10	9.15 05 05 -042	12.7	12.6 12.65 10	12.55	12.60 -437
9	7		10.1			10.1	10.10 00 -127	13.0	13.2 13.10 11		13.10 -427
10			10.3			10.3	10.30 00 -128	13.5	13.3 13.40 11	13.30	13.35 -433
11			11.1			11.0	11.05 10 -150	13.8			13.90 13.65 -430
12			11.3			11.3	11.30 00 -144	13.7			14.0 13.85 -399
13			11.8			11.8	11.80 00 -150	7			14.0 14.00 -370
14			12.0			12.0	12.00 00 -135				
15			12.8			12.5	12.65 21 -157				
16			12.9			12.9	12.90 00 -150				
17		12.9	13.1	13.00	11	13.10	13.05 05 05 -142				
18		13.4	13.4	13.40	00	13.45	13.42 02 03 136				
19		14.0	13.7	13.85	21	13.90	13.88 03 02 146				
20		14.1?	13.9	14.00	11	13.90	13.95 05 05 122				
23		14.0	14.2?	14.10	11	14.10	14.10 00 00 076				
25		14.2?	14.3?	14.25	01		14.25 ω. 038				
26											
27											

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1914phae.proj.1042M

Monday, ~~October~~ November 9, 1914

Spid BKg: 34

Series No 121

Scale R. HD 3823 31 Ceti alt. +0.3 Pe

		Sc.1	Sc.2	Comp.	Magn.	Sc.1	Sc.2		
Par. than 4 P.S.5.	t					8.9 97	9.1	9.15 0.1	. .
Double	t'					.	Pe. +6.0	. . .	
	y	4.1 44		.	.	7.	10.0	10.1 10.05 0.1	. .
6.1 64	u	6.0 63	6.35 0.1	0.68	6.97 5.73		10.9	10.9 10.90 00	-4.01 6.89
	z	4.9 57		1.41	6.61		10.3	10.1 10.20 11	-3.85 6.35
Too far from centre	z'	7.7 Pe.	~~11.3~~	.	.		11.3	11.3 11.30 00	-4.17 7.13
	α	7.2 75.		-0.09	7.41		11.6		-4.18 7.42
	α'	7.3 76.	B.	-0.14	7.46		11.8		-4.23 7.57
	β	8.8 9.1	9.1	9.10 00	-0.90 8.20		12.7		-4.33 8.37
	β'	9.1 94	9.7	9.55 2.1	-1.10 8.45		13.0		-4.33 8.67
	δ	7.	10.7		-1.39 9.31		13.6		-4.23 9.37
	δ'	7.	11.2		-1.45 9.75		13.9		-4.00 9.90
	γ		10.9	11.0 10.95 1.0	-1.42 9.53		14.0		3.85 10.15
	ε		11.8	11.9 11.85 0.1	-1.50 10.35		14.1		~~3.75~~ 10.35
	ζ		12.2	12.1 12.15 0.1	-1.49 10.66		7.		. .
	η		12.3	12.3 12.30 00	-1.49 10.81				
	θ		12.9	12.8 12.85 1.0	-1.47 11.38				
Var. 7.			11.9		-1.49 10.41		13.6		-4.23 9.37

* Wrong star mean? t' is double; too difficult.

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1914phae.proj.1042M

Monday ~~Oct.~~ November 9, 1914

copies.

Series No. 121

Scan R. No. 3824 D. 2. Alx. -.19 P. C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	7.8 81°	8.		-0.40	770	7.	11.7	11.9 11.80 11	-4.23	757
2	8.7 90°	8.8	8.90 11	-0.82	808		12.6	12.4 12.50 11	-4.31	819
3	8.0 83°	8.0	8.15 12	-0.46	769		11.8	11.9 11.85 01	-4.24	761
4	9.0 93°	9.2	9.25 10	-0.94	831		12.7	12.8 12.75 10	-4.32	843
5	8.6 89°	9.0	8.95 10	-0.86	809		12.5	12.5 12.50 00	-4.31	819
6	7.	9.5		-1.07	843		13.0		-4.33	867
7	7.	10.2		-1.28	892		13.2		-4.31	889
8	7.	9.9		-1.18	872		13.1		-4.33	877
9	7.	10.7		-1.38	932		13.4		-4.27	913
10		11.0		-1.42	958		13.8		-4.12	968
11		11.3		-1.46	984		13.8		-4.12	968
12		11.3		-1.46	984		14.0		-3.84	1016
13		11.8		-1.50	1030		14.1?		.	.
14		12.2		-1.49	1071		7.		.	.
15		12.6		-1.48	1112					
16		12.4		-1.49	1091					
17		12.8		-1.46	1134					
17a		13.0		-1.43	1157					
18		13.3		-1.38	1192					
19		13.4		-1.37	1203					
20		13.6	13.4 13.50 11	-1.35	1215					
21		13.7	13.7 13.70 00	-1.27 (5)	1243 (5)					
22		13.9	13.9 13.90 00	-1.17	1273					
23		14.0?	14.0? 14.00 00	-1.10?	1290?					
24		14.0	14.0 14.00 00	-1.10	1290					
25		7.								
26										

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1914phae.proj.1042M

Monday November 9. 1914

Series Tm B 121

Scale R Tm B 3825 Pole

	Sc.1	Sc.2		Sc.1	Sc.2		
					P. C.		S
5	4.9 5.2	B		7	10.4	10.3	10.35 01
6	6.7 7.0	B.			11.3	11.3	11.30 00
8	8.7 9.1	9.1	9.10 00		12.7	12.7	12.55 12
9	7.	10.1		9m. dif.?			
10	7	10.3			13.3	13.3	13.30 00
11		11.0			13.9	13.9	13.90 00
12		11.3			14.0		
13		11.8			14.0		
14		12.0			7		
15		12.5					
16		12.9					
17		13.0	13.2 3 13.10 11				
18		13.3	13.6 13.45 12				
19		13.9	13.9 13.90 00				
20		13.9	13.9 13.90 00				
22		14.2?	14.0 14.10 11				
25		7.	7.				
26							
27							

11.45

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1914phae.proj.1642M

Tuesday ~~Monday~~, November 10, 9, 1914

11.25. MD Series 112.

Scale R. MD 3698

	Sc.1	Sc.2			MD 3703	MD 3709	Diff	Sc.1	Sc.2	P. E.
					λ 73	λ 75				
5	6.1				6.4	6.1	6.30	019		
6	7.8				7.8	8.0	7.97	-086		
8	↓	10.3			9.9	9.9	10.03	-180		
9	↓	10.9			10.9	10.8	10.87	-204		
10	↓	11.3			10.9	10.9	11.03	-201		
11		11.8			11.75	11.7	11.75	-220		
12	12.4	11.7	12.3	12.35 01	12.10	12.0	12.15	-229		
13		12.9	12.8	12.85 10	12.75	12.70	12.77	-247		
14		13.2	13.2	13.20 00	13.10	12.95	13.08	-243		
15		13.8	13.8	13.80 00	13.45	13.65	13.63	-255		
16		13.9	13.9	13.90 00	13.90	13.85	13.88	-248		
17		14.0	14.0	14.00 00	14.05	13.95	14.00	-237		
18		↓	↓		14.10	14.15	14.12	-206		
19										
20										
23										
25										
26										

‡ Wrong unit?

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1914phae.proj.1042M

Tuesday November 10, 1914

Cohen

HD Series 112.

Scale R | HD 3701 | R Cassiop. | Alt. +22°

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
g	7.7 80.	B.	-0.91	7.09	7.	12.3	12.2 12.25 10 -5.23	7.03
h	6.5 68.	B.	-0.20	6.60		12.9	13.9 11.90 00 -5.11	6.79
k	8.8 91.	9.1	9.10 00	-1.41	7.69	13.3	13.3 13.30 00	-5.46 7.84
l	7.	10.6		-1.93	8.67	14.1?	14.1? 14.10 00	-5.46 8.64?
m		10.3		-1.85	8.45	13.9	13.9 13.90 00	-5.47 8.43
n		11.3		-2.13	9.17	14.3?		-5.48 8.82?
n'		11.8		-2.24	9.56	7.		. .
n^2		12.4		-2.37	10.23			
o		12.7	12.9 12.80 11	-2.44	10.36			
o'		12.8	12.7 12.75 01	-2.43	10.32			
p		13.8	13.9 13.85 01	-2.45	11.40			
q		11.3	13.4 13.35 10	-2.48	10.87			
r	Difficult. Too near. var.	13.5?	13.4 13.45? 10	-2.48	10.97?			
s		13.9	14.0 13.95 10	-2.38	11.57			
t		7.	7. .	.	.			
t'								
u		7.	.	.				
w								
w'								
x								
Var.		12.0	11.9 11.95 01	-2.28	9.67	7.		

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1914phae.proj.1042M

Tuesday November 10, 1914

m Θ Series 112

Scale R m Θ 3703 Pole

	Sc.1	Sc.2		Sc.1 Mean	Sc.2	
5	6.1 6.4	8.				
6	7.6 7.8	8.		12.4	12.3	12.35 0 1
8	7.	9.9		13.8	13.9	13.85 0 1
9		10.9		7.	7.	
10		10.9				
11		11.7	11.8	11.75 1 0		
12		12.2	12.0	12.10 1 1		
13		12.7	12.8	12.75 1 0		
14		13.1	13.1	13.10 0 0		
15		13.5	13.4	13.45 1 0		
16		13.9	13.9	13.90 0 0		
17		14.1?	14.0	14.05 1 0		
18		14.1?	14.1?	14.10 0 0		
19			7.			
20						
23						
25						

See p. 41

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1914phae.proj.1042M

Tuesday November 10, 1914

In sheet.

M D Series 1121

Scoser R | M D 3707 | T Cassiop. Alt +22

	Sc.1	Sc.2	Curve Magn.		Sc.1	Sc.2	Curve
					3m. very poor ?		
a	9.						
b	53 5.0?				11.0	11.2	11.10 1.1 -.482 6.28
c	80 7.7	B.	-.091 7.09		12.3	12.4	12.35 1.0 -.527 7.08
c'	82 7.9	8.1	8.15 0.1 -.100 7.15		12.8	12.8	12.80 0.0 -.539 7.41
d	93 9.0	9.1	9.20 1.1 -.148 7.72		13.3	13.4	13.35 1.0 -.547 7.88
d'	7.	9.9	-.173 8.17		14.0	13.4	14.2? 14.10 1.1 -.546 8.64
d²	7.	10.9	-.201 8.89		7.		. .
e	9.1: 8.8	8.8	8.95 1.2 -.137 7.58		13.2		-.546 7.74
f	93 9.0	9.3	9.30 0.0 -.156 7.80		13.3		.546 7.84
g	7.	10.9	-.201 8.89		7.		. .
g'	7.	12.3	-.234 9.96		7.		. .
g²	7.	11.9	-.226 9.64		7.		. .
h		11.1	-.207 9.03				
k		12.2	-.233 9.87				
l		12.8	-.245 10.35				
l'		13.0	-.246 10.54				
m		12.7	-.242 10.28				
n		12.7	12.7 12.70 0.0 -.242 10.28				
n'		13.4	13.4 13.40 0.0 -.249 10.91				
o		13.7	13.7 13.70 0.0 -.247 11.23				
o'		14.0	14.1? 14.05 0.1 -.234 11.71				
p		13.9	13.9 13.80 0.0 -.241 11.49				
p'		13.8	13.7 13.80 0.0 -.246 11.34				
q		7.	14.1? -.230 11.80				
r							
s							
s'							
t			-.242 10.28				

Does not compare well

* Wrong for near

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Tuesday November 10, 1914

mD Series 112

Scale R *mD 3709 Pole

	Sc.1	Sc.2			Sc.1	Sc.2		
5	5.8 6.1				7	11.4	11.3	11.35 01
6	7.7 7.80	B.				12.3	12.1	12.20 11
8	7.	9.9				13.7	13.7	13.70 00
9		10.8				14.3?	14.2?	14.25 10
10		10.9				7	4	
11		11.7						
12		12.0						
13		12.7	12.7	12.70 00				
14		13.0	12.9	12.95 01				
15		13.7	13.6	13.65 10				
16		13.9	13.8	13.85 10				
17		14.0	13.9	13.95? 01				
18		14.1?	14.2?	14.15? 10				
19								
20								

See p. 41

1.07 * Plate [illegible]

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1914phae.proj.1042M

Wednesday, November 11, 1914

2.05

m D 120

Scace R

m D 3804

Pole

PC

	Sc.1	Sc.2	Diff	me 3810 +78	Diff	Sc.1	Sc.2	Mean	Diff
Does not compare well	5 4.4 (4.7)			1.79 5.2	4.95 3.2 1.54	7.	10.4	10.4 10.40	00 - 391
	6 6.3 (6.6)	B.		0.51 7.0	6.80 2.2 0.31		11.4	11.4 11.40	00 - 429
	8 8.6 (8.9)	8.9	8.90 00	- 0.67 9.00	8.95 05 05 - 0.72		12.7	12.8 12.75	10 - 452
	9 7.	12.1		- 1.27 9.9	10.00 11 - 1.17		12.9	12.9 12.90	00 - 407
	10	10.3		- 1.28 10.3	10.30 00 - 1.28		13.3	13.3 13.30	00 - 428
	11	11.1		- 1.55 10.9	11.00 11 - 1.45		13.9	13.9 13.90	00 - 435
	12	11.2		- 1.34 11.2	11.20 00 - 1.34		14.2?	14.1? 14.15	01 - 429
	13	11.9		- 1.60 11.9	11.90 00 - 1.60				
	14	12.2		- 1.55 12.1	12.15 01 - 1.50		5	10.40	10.40 \ 391
	15	12.5		- 1.42 12.3	12.40 11 - 1.32		6	11.40	11.25 11.32 \ 421 (05 05)
	16	12.7	12.9 12.80	11 - 1.40 12.8	12.75 (80) 00 00 \ 1.40		8	12.75	12.65 12.70 \ 447 (05 05)
	17	13.0	12.9 12.95	01 - 1.32 13.05	13.00 05 05 \ 1.37		9	12.90	13.25 13.08 \ 425 (18 17)
	18	13.6	13.7 13.65	01 - 1.59 13.40	13.52 13.17 \ 1.46		10	13.30	13.25 13.28 \ 426 (02 03)
	19	13.8	13.8 13.80	00 - 1.38 13.45	13.62 18 17 \ 1.20		11	13.90	13.90 13.90 \ 435 (00 00)
	20	13.9	13.9 13.90	00 - 1.17 13.90	13.90 00 00 \ 1.22 (-1.19)		12	14.15	13.95 14.05 \ 419 (10 13)
	23	14.3?	7.	- 0.86 13.95	13.95 - a \ 0.61 (14.32? 18 11 - .978)				
	25	7.			f				
	26								
	27								
	28								

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Wednesday, November 11, 1914

m sheets

HD Series 120.

Scale R HD 3809 Y Cephei Obt. +.17 P.C.

	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.2		
a							
b							
c	3.6 39			9.9	9.9	‡Rej 11.7	990 00 . .
Does not compare d	4.8 5.1		1.38 6.48	10.7	10.7	1070 00	-4.03 6.67
Does not compare e	6.4 6.7	B.	0.43 7.13	11.4	11.5	1145 01	-4.23 7.22
Double-b meas. f	8.4 8.7	8.5	8601 1	-0.58 8.02	12.6	12.3	12452 1 -4.36 8.09
Wrong unit g	8.6 8.90	8.9	8.95 01	-0.75 8.20	12.6	12.8	1270 1 1 -4.37 8.33
g'	8.1 8.4	8.2	8301 1	-0.45 7.85	12.3		4.34 7.96
h 8.2	8.1 8.4 8.5	8.0 8.2	8282131	-0.44 7.84	12.4		-4.35 8.05
h'	7.	9.9		-1.13 8.77	12.9		-4.36 8.54
k	7.	10.6		-1.23 9.27	13.7		-4.29 9.41
k'		9.8		-1.09 8.71	13.0		-4.36 8.64
k²		11.0		-1.39 9.61	13.7		-4.29 9.41
l		11.2		-1.42 9.78	13.9		-4.27 9.63
m		11.2		-1.42 9.78	14.0		4.24 9.76
n		12.2		-1.47 10.73	7.		. .
o		11.9		-1.47 10.43			
o'		12.7	12.7	12.70 00	-1.44 11.26		‡ Wrong star meas?
p		12.9	13.0	1295 10	-1.42 11.53		
q	13.1	12.9	13.2	13.07 02 1	-1.40 11.67		
q'		13.2	13.1	13.15 01	-1.38 11.77		
r		12.8	12.7	1275 01	-1.44 11.31		
r'		13.1	13.1	13.10 00	-1.40 11.70		
r'		13.8	13.8	13.80 00	-1.20 12.60		
s		14.0	14.0	14.00 00	-1.00 13.00		
t		14.0	14.0	14.00 00	-1.00 13.00		

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Wednesday November 11, 1914

Mt W Series 120

Scale R

	Mt W 3810		Poor		P C.		
	Sc.1	Sc.2		Sc.1	Sc.2		
5	4.9 .32	B.		out of focus.			
6	6. .40	B.			11.2	11.3	11.25 01
8	8.8 .91	8.9	900 11		12.6	12.7	12.65 01
9	7.	9.9			13.3	13.2	13.25 10
10		10.3			13.3	13.2	13.25 10
11		10.9		longer baby	13.9	13.9	13.90 00
12		11.2			14.0	13.9	13.95 01
13		11.9			7.		
14		12.1					
15		12.8					
16		12.8					
17		12.9	13.2	13.05 12			
18		13.4	13.4	13.40 00			
19		13.5	13.4	13.45 10			
20		13.9	13.9	13.90 00			
23		13.9	14.0	13.95 10			
25		7.	7.				
26							
27							
28							

3.21

Sept. 76

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1914phae.proj.1042M

Friday November 13, 1914

11.40 HD Series 226

Scan R HD 5153 Pole

	Sc.1	Sc.2		MS 5159 p.81	Diff	Sc.1	Sc.2		Diff
5	6.2	B.		6.6	6.55 1 0 -0.06	7.	11.7	11.6 11.65 1 0 11.50 11.56 0 7 0 1 -5.09	
6	7.9	8.0	8.10 0 1/2	8.1	8.10 0 0 0 0 -0.99		12.7	12.4 12.55 1 2 12.25 12.40 1 5 1 5 -5.29	
8	7	10.2		9.7	9.95 2 3 -1.72		12.9	13.9 13.90 0 0 13.85 13.88 0 2 0 3 -5.65	
9		11.1		10.9	11.00 1 1/2 -2.17		7	7	
10		11.3		11.1	11.15 0 1 -2.13				
11		12.2		11.8	12.00 2 2 -2.45				
12		12.4	12.4 12.40 0 0	12.15	12.28 1 2 1 3 -2.42				
13		12.9	13.0 12.95 1 0	12.90	12.92 0 3 0 2 -2.62				
14		13.3	13.6 13.45 1 2	13.25	13.35 1 0 1 0 -2.70				
15		13.8	13.8 13.80 0 0	13.80	13.80 0 0 0 0 -2.72				
16		14.0	14.1? 14.05 0 1	14.00	14.02 0 3 0 2 -2.62				
17		7	14.2?		14.29 2 -2.57				
18			7.		. . .				
19									
20									
23									
25									

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1914phae.proj.1042M

Friday November 13, 1914 on sheets

MD Series 226

Scale R MA 5155 P Aurigae Act. +.14 * P. C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
a	5.2 55.	B.			7.	10.9 10.8	10.85	10
b	8.4 87.	9.0	8.85	12	3 -1.70	7. 8.55	13.1 13.1	13.10 00	47 -5.82	7.63
c	8.0 83.	8.1	8.20	11	-1.03 -.97	7. 8.17	12.7 12.8	12.75 10	-5.40	7.35
c'	8.9 92.	9.1	9.15	01	-1.44 +.56	7. 8.71	13.3 13.1	13.20 11	-5.51	7.69
c^2	7.	10.0			-1.78 +.22	8 8.22	13.7 13.8	13.75 10	-5.63	8.12
d	7.	10.3			-1.88 +.12	8. 8.42	14.1?		-5.71	8.37
e		10.7			-2.05 +.05	8. 8.65	7.			
f		11.6			-2.34 -.66	9. 8.26				
g		11.8			-2.40 -.60	9. 8.40				
g_1		11.9			-2.43 -.57	9. 8.47				
g_2		12.8			-2.60 -.40	10. 8.20				
g		12.9	12.8	12.85 10	-2.60 -.40	10. 8.25				
h		13.3	13.1	13.20 11	-2.65 -.35	10. 8.55				
k		13.0	13.0	13.00 00	-2.63 -.37	10. 8.37				
l		13.3	13.1	13.50 22	-2.66 -.34	10. 8.84				
m		7. +1.0	7.	. . .						
n		14.0	14.0	14.00 00	-2.63 .37	11 8.37				
o		7.	7.	. . .						
o_1										
o^2										

Var. 13.0 13.0 -2.63 .37 10.37

* P.C. very sharp. Do not compare very well.

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1914phae.proj.1042M

Friday, November 13, 1914

Mt Series 226

Scale R Mt 5159 Pole

	Sc.1	Sc.2		Sc.1	Sc.2	
	5 6.3			7.	11.5	11.5 11.50 00
3	6 7.8	8.			12.3	12.2 12.25 10
5	8 7.	9.7			13.9	13.8 13.85 10
9	9	10.9			7.	7.
12	10	11.1			7.	
39	11	11.8				
	12	12.1	12.2 12.15 10			
	13	12.9	12.9 12.90 00			
	14	13.2	13.3 13.25 01			
	15	13.8	13.8 13.80 00			
	16	14.0	14.0 14.00 00			
	17	7.	7.			
	18					
	19					
	20					
	23					
	25					

12.22.

Sept. 79

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Friday, November 20, 1914

11.15 HD Series 85

Scale V HD 3329 Pole

	Sc. B	Sc. C		HD 3334 p 84	HD 3340 p 86	Sc. B			Sc. C				
5	4.1 (4.2)	B.		4.45	4.65	4.43	23	22	2.06	8.4	8.7	8.55	2.1 8.70 8.78
6	5.4 (5.5)	5.3	5.40 11	5.60	5.80	5.60	20	00	20 1.51	9.1	9.2	9.15	10 9.70 9.70
8	6.9 (7.0)	7.1	7.05 01	7.5	7.3	7.28	23	22	02 0.95	10.2	10.3	10.25	01 . .
9	7.	7.8		8.20	7.8	7.93	13	27	13 0.90	7.	7.	.	. .
10		7.9		8.25	8.35	8.17	27	08	18 0.85				
11		8.6	8.7 8.65 01	9.05	8.80	8.83	18	22	03 0.72				
12		8.8	8.9 8.85 01	9.40	9.15	9.13	28	27	02 0.73				
13		9.7	9.7 9.70 00	9.75	9.80	9.82	12	13	02 0.48				
14		9.9	9.8 9.85 10	10.10	9.90	9.95	10	15	05 0.70				
15		10.1?	10.0 10.05 10		10.1	10.08	03	.02	1.00				
16		7.	7. .										
17													
18													
19													
20													
23													
25													
26													

Do not plot O.C. per H.S.L.

Dec. 11, 1914.

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Friday, November 20, 1914

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HD Series 85

Scale V HD 3330 R Camel adt. +.07 * P. e.

	Sc. B	Sc. e	Curve	Magn.	Sc. B	Sc. e		
					7			
α	6.3 6.2	6.2	6.25 10	+1.30	7.55	9.8	9.9	9.85 01
β	4.0 3.9	B.	.	.	.	8.2	8.2	8.20 00
γ	6.4 6.3	6.4	6.40 00	1.25	7.65	9.9	9.9	9.90 00
a	6.8 6.7	6.8	6.80 00	1.13	7.93	7.	7.	.
a'	7.	8.1		0.84 ~~1.06~~	8.94			
f		8.2	8.3	8.25 01	0.81	9.06		
e		8.4	8.4	8.40 00	0.80	9.20		
d		9.3	9.3	9.30 00	0.69	9.99		
c		9.8	9.9	9.85 01	0.69	10.54		
g		9.9	10.0	9.95 10	0.70	10.65		
b'		7.	7.	.	.	.		
f								
g								
b								

Var. 8.8 8.9 8.85 01 0.73 9.58

*See note p. 82

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1914phae.proj.1042M

Friday November 20, 1914

HD Series 85

Scale V HD 3334 Pole

	Sc. B	Sc. C		Sc. B	Sc. C		
5	4.5 46.	4.3	44521		8.7	8.7	8.7000
6	5.6 57.	5.5	56011		9.6	9.8	9.7011
8	7.	7.5			7		
9		8.2	8.2 8.2000				
10		8.2	8.3 8.2501				
11		8.9	9.2 9.0512				
12		9.4	9.4 9.4000				
13		9.9	10.0 9.9810				
14		10.1?	10.1? 10.1000				
15		7	7.				
16							
17							
18							
19							
20							
23							
25							

Sep 82

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1914phae.proj.1042M

Friday November 20, 1914

Copied on sheets

MD Series 85

Scale V MD 3339 R Draconis Alt. +.18 * R.A. 16h.

	Sc. B	Sc. C		Curve	Magn	Sc. B	Sc. C		
						7			
a	6.3 6.2	6.1	6.20	1.1	1.32		9.8	9.8	9.80 .00
b	6.9 6.8	6.8	6.85	.10	1.12		10.0	10.0	10.00 .00
c	6.5 6.4	6.7	6.60	1.1	1.18		10.0	9.9	9.95 .01
d	6.7 6.6	6.5	6.60	1.1	1.18		9.9	9.9	9.90 .00
e	7.	7.6			0.92		7	7	.
f		7.8			0.89				
g		7.7			0.91				
h		8.4	8.6	8.50	1.1	0.78			9.28
h'		9.1	9.1	9.10	.00	0.71			9.81
k		9.3	9.2	9.25	.10	0.69			9.94
l		9.9	9.7	9.80	1.1	0.67			10.47
m		9.9	9.9	9.90	.00	0.69			10.59
n		10.1?	10.1?	10.10?	.00	0.73			10.83?
n'		7		.	.	.			
o									
o'									
Var.		n.o							

* See note page 82.

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1914phae.proj.1042M

Friday November 20, 1914

MD Series 85

Scale V

	MD 3340 Sc.B	Sc.C	Pec	Pec Sc.B	Sc.C	
5	4.5 (4.6)	4.7	4.6501	7.	8.7 8.8	8.75 10
6	5.7 (5.8)	5.8	5.8000		9.7 9.7	9.70 00
8	7.	7.2			7.	
9		7.8				
10		8.3	8.4 8.35 10			
11		8.8	8.8 8.80 00			
12		9.1	9.2 9.15 10			
13		9.8	9.8 9.8000			
14		9.9	9.9 9.9000			
15		10.1?	7.			
16		7.				
17						
18						
19						
20						
23						
25						

12.20

Sept 82

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Wednesday, November 25, 1914

9.40 — Inc Series 368. — Copied — Card.

Scale R — Inc 6845 — 17" — alt. + .18 — P.C.

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2	Sc.2		Curve	Magn.
	5.1										
1	4.8					7.	10.3	10.4	10.35	10	8.00
	6.4										
2	6.1			2.57	8.97		11.8	11.9	11.85	01	9.24
	7.5			2.56							
3	7.2	13.		2.56	9.75		12.4	12.3	12.47	12	9.75
	7.5			2.56							
4	7.2	B.		2.56	9.75		12.8	12.9	12.85	01	10.10
	8.1										
5	7.8	8.1	8.10	00	2.06	10.16	13.3	13.4	13.35	10	10.55
	9.0										
6	8.7	8.8	8.90	11	1.84	10.74	13.9				11.40
7	7.	8.9			1.84	10.74	7.				
8		10.4			1.47	11.87					
9		11.2			1.37	12.58					
10		11.7			1.35	13.05					
11		11.8			1.35	13.15					
12		12.4			1.37	13.77					
13		12.8	12.7	12.75	01	1.39	14.14				
14		12.9	13.0?	12.95	10	1.43	14.38				
15		12.9	12.8	12.85	10	1.41	14.26				
16		13.6	13.7	13.65	01	1.57	15.22				
17		13.7	13.9	13.80	11	1.63	15.43				

Jan. 29, 1915

13 12.8

14 13.2

15 13.1

16 13.5

No evidence of error in original measure of 15.

W.

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1914phae.proj.1042M

Wednesday, November 25, 1914

Series 368

Scale R mc. 6846 Foci

	Sc.1	Sc.2	mc 6850 +.92 Mean	Diff.	Sc.1	Sc.2	mc 6850 +.92 Mean	Diff.
5	.	.				.	8.45 8.45 .a	-1.96
6	.	.				9.2 9.1	9.15 01 9.25 8.45 9.20 05 05	-2.09
8	.	.				10.7 10.4	10.55 12 10.85	10.70 15 15 -2.47
9	.	.				11.4 11.4	11.40 00 11.45	11.42 02 03 -2.59
10	6.0 6.3.		6.4	6.35 1 0	2.67 11.5	11.7 11.3	11.50 02 2 11.65	11.58 06 07 -2.56
11	6.7 7.0.		7.6	7.30 3 3	2.25	12.1 12.1	12.10 00 12.1	12.10 00 00 -2.55
12	7.3 7.6		7.6	7.60 0 0	2.26	12.3	12.8	12.55 3 2 -2.69
13	7.9 8.2.	B.	8.35	8.28 08 07	2.02	13.1	13.7	13.00 11 -2.70
14	8.2 8.5.	8.3	8.40 11 8.95	8.68 28 27	1.97	13.7	13.4	13.55 12 -2.90
15	9.0 9.3.	8.9 9.1	9.10 22 0 9.6	9.35 25 25	1.73	13.8	13.9	13.85 01 -2.77
16	7.	9.4	9.9	9.85 0 1	1.55	13.9	P 13.70 a.	-2.50
17	7.	9.9	10.2	10.05 1 2	1.58	7	. .	.
18		10.6	10.8	10.70 1 1	1.36			
19		10.7	11.1	10.90 2 2	1.52			
20		11.3	11.7	11.50 2 2	1.23			
23		11.9	11.8	11.85 1 0	1.49			
25		12.5 12.4	12.45 10	12.60	12.52 07 08	1.35		
26		12.8 12.9	12.85 01	13.05	12.95 10 10	1.38		
27		12.9 13.2	13.05 12	13.20	13.12 07 08	1.57		
28		13.8 13.7	13.75 01	13.75	13.75 00 00	1.36		
29		14.0 14.0	14.00 00	14.05	14.02 02 03	1.64		
30	Bf.?	13.9? 13.9?	13.90 00	14.00	13.95 05 05	2.09		
31								
32								

all P.C.'s slightly elongated.

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1914phae.proj.1042M

Wednesday, November 25, 1914

Cloudy Card.

Series 368

Scale R. mc 6847 137 11 Alt. - 20 P.C.

	Diff.		Sc.1	Sc.2	Curve.		Curve	Magn.	Sc.1	Sc.2		Curve.	Magn
a	-1.96		16.1 64		2.57		2.57	8.97	7.	11.3	11.2	11.25 10	-2.51 8.74
	-2.09		2 6.9 72	B	2.33		2.33	9.53		12.2	12.5	12.35 21	-2.70 9.65
	-2.47		3 7.8 81	8.0	2.07	8.05 10	2.08	10.13		13.3	13.2	13.25 10	-2.78 10.47
	-2.59		4 8.9 92	9.1	1.74	9.15 01	1.87	11.42 09					
	-2.56		5 9.0 93	9.2	1.73	9.25 10	1.74	10.99		13.9	14.0	13.95 10	
	-2.55		6	10.1	1.54		1.54	11.64					
	-2.69		7	10.3	1.50		1.50	11.80					
	-2.70		8	10.4	1.47		1.47	11.87					
	-2.90		9	11.2	1.37		1.37	12.57					
	-2.77		10	12.1			1.35	13.45					
	-2.50		11	11.9			1.35	13.25					
			12	12.8			1.40	14.20					
			13	12.8	12.7	12.75 01	1.39	14.14					
			14	12.9	13.1	13.00 +12.95 11	1.44	14.44					
			15	13.4	13.3	13.35 01	1.50	14.85					
			16	13.9	13.9	13.90 00	1.65	15.55					
			17	13.9	14.0	13.95 10	1.69	15.64					
			18										

Sm. Large + Hazy.

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1914phae.proj.1042M

Wednesday, November 25, 1914

: on sheets. Card.

Series 368

Scale R h e 6848 7 Ceghei a(x) +.17 P e.

		Sc.1	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.1	Sc.2		
off plate	a									
	b	too bright to be reduced				7.4 (7.7)	7.3 (7.6)	B.	7.65 10	
" "	c									
	d	too bright to be reduced					8.1 (8.4)	8.6	8.50 1.1	-1.96 6.54
	e	" " " "					7.	9.2	9.4	9.35 1.0 -2.12 7.23
	f	4.4 (4.7)						10.1	10.5 (10.2)	10.15 1.0 -2.30 7.85
	g	5.1 (5.4)						10.5	10.5	10.50 0.0 -2.37 8.13
4.9 (5.2)	q	5.0 (5.3)		5.25 0.1				10.2	10.2	10.20 0.0 -2.31 7.89
4.4 (4.1)	n	4.3 (4.6)		4.65 1.0				10.3		-2.53 7.97
5.6 (5.9)	h'	5.9 (6.2)		6.05 1.2	2.70	8.75		10.8		-2.43 8.37
6.3 (6.6)	k	6.4 (6.7)		6.65 0.1	2.53	9.18		11.4	11.3	11.35 0.1 -2.54 8.81
5.3 (5.6)	k'	5.5 (5.8)		5.70 1.1	.	.	Difficult sep. on star Wrong im. mean first	11.3?	11.3?	11.30? 0.0 -2.53 8.77?
								~~11.2~~	12.9	-2.76 10.14
	k	6.9 (7.2)	~~6.9~~		2.34	9.54		12.1		-2.66 9.44
	l	7.3 (7.6)	B.		2.21	9.81		12.3		-2.68 9.62
	m	7.5 (7.8)	B.		2.16	9.96		12.4		-2.71 9.69
	n	8.3 (8.6)	8.6	8.60 0.0	1.92	10.52		13.4		-2.79 10.61
	o	7.9 (8.2)	8.2	8.20 0.0	2.04	10.24		13.2		-2.77 10.43
	o'	8.7 (9.0)	8.8	8.90 1.1	1.84	10.74		13.1		-2.78 10.92
	p	7.	10.1		1.54	11.64		7.		
	p'	7.	10.0		1.56	11.56				
	q		10.1		1.54	11.64				
	q'		9.2		1.75	10.95				
	r		10.3		1.50	11.80				
	r'		10.7		1.43	12.13				
	s		11.2		1.38	12.58	Star images			
	t		11.6		1.36	12.96		13.2	13.2	13.20 0.0 +1.46 14.66 -2.77 10.43
	u		11.8	11.9	1.35	13.20		13.4	13.6	13.50 1.1 +1.54 15.04 -2.80 10.70
	w		13.4	12.1	1.36	13.61			B.	
	x			12.5 2.1	1.43	14.38				-2.12 7.23

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1914phae.proj.1042M

Wednesday, November 25, 1914

Cand.

Series 368

Scale R mt 6849 Error 22.45 +18 wt. +.18 PC.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
	4.2					4.				
1	3.9						10.0	10.2	10.10 1	-2.29	7.81
	6.2										
2	5.9			2.64	8.84		11.3	11.4	11.35 1 0	-2.53	8.82
	7.2										
3	6.9	B		2.33	9.53		11.9	12.0	11.95 1 0	-2.63	9.32
	7.4										
4	7.1			2.28	9.68		12.3	12.2	12.25 1 0	-2.68	9.57
	7.6										
5	7.3	B		2.21	9.81		12.9	12.8	12.85 1 0	-2.76	10.09
	7.8										
6	7.8	8.1		8.10 0 0	2.07	10.17	12.9			-2.78	10.14
	8.0										
7	8.7	8.8		8.90 1 1	1.84	10.74	13.9			-2.70?	11.20
8	7.	9.8			1.61	11.41	7.				
9		10.3			1.50	11.80					
10		10.8			1.41	12.21					
11		11.1			1.48 (3)	12.58 (4)					
12		11.2			1.48 (3)	12.68 (5)					
13		10.8			1.41	12.21					
14		11.6			1.36	12.96					
15		11.9			1.35	13.25					
16		12.3	12.3	12.30 0 0	1.36	13.66					
17		12.4	12.4	12.40 0 0	1.37	13.77					
18		12.9	12.9	12.90 0 0	1.36 (42)	14.25 (33)					
19		13.3	13.2	13.25 1 0	1.47	14.72					
20		13.7	13.8	13.75 1 0	1.61	15.36					

Remeasures. Jan. 30, 1915.

	sc.2	
12	11.2	Q Recorder.
13	11.2	
14	11.7	

First measure for 13 evidently not mistake of a unit. It seems now too bright, but mistake was probably accidental error. Star images on this plate do not compare well with scale, - they on [illegible] Jan. 30, 1915

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1914phae.proj.1042M

Wednesday November 25, 1914

The Series 368

Scan R — The 6850 Pole — P.C.

	Sc.1	Sc.2		Sc.1	Sc.2		
5	.			8.6 8.3?	8.3?		8.145 .21
6	.			7	9.3	9.2	9.25 .10
8	.				10.8	10.9	10.85 .01
9	.				11.6	11.3	11.45 .21
10	6.4 6.1				11.6	11.7	11.65 .01
11	7.6 7.3				12.1		
12	7.6 7.3	B.			12.8		
13	8.4 8.1	8.3	8.35 .01		12.9		
14	9.1 8.8	8.8	8.95 .12		13.4		
15	7	9.6			13.9		
16		9.9			7.		
17		10.2					
18		10.8					
19		11.1					
20		11.7					
23		11.8					
25		12.5	12.7	12.60 .11			
26		13.7	13.2	13.05 .12			
27		13.2	13.2	13.20 .00			
28		13.7	13.8	13.75 .10			
29		14.1?	14.0?	14.05 .10			
30		14.0	14.0	14.00 .00			
31		7.					

Seeing 88

11.53

Images of P.C. is slightly elongated.

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1914phae.proj.1042M

Saturday, November 28, 1914

10.30 m Ψ Series 317

Scale P me 6219 Pole

	Sc.1	Sc.2														
5																
6																
8																
9																
10	6.4					6.4	6.55	1 2	2.47							
11	7.4					7.3	7.45	3 2	2.10							
12	7.8		B.			8.0	8.05	1 0	1.81							
13	8.5		8.9		8.85	0 1	8.35	8.60	25 25	1.70						
14	8.9		9.6	9.5	9.43	2 2	1 8.90	9.16	27 26	1.49						
15	7		9.9			9.3	9.60	3 3	1.48							
16			10.4			10.1	10.25	2 1	1.15							
17			10.7			10.3	10.50	2 2	1.13							
18			11.2			10.9	11.05	2 1	1.01							
19			11.7			11.3	11.50	2 2	0.92							
20			11.6			11.6	11.60	0 0	1.13							
23			12.2			11.9	12.05	2 1	1.19							
25			12.5	12.8	12.65	1 2	12.7	12.68	03 02	1.19						
26			12.9	13.1	13.00	1 1	12.95	12.98	02 03	1.35						
27			13.6	13.3	13.45	2 1	13.15	13.30	15 15	1.39						
28			13.8	13.8	13.80	0 0	13.55	13.68	12 13	1.43						
29			13.9	13.9	13.90	0 0	13.90	13.90	0 0 0 0	1.76						
30			7	7.			13.90	13.90	1	2	2.14					
31							13.95	13.95	1	2	2.27					
32																

P C.

Sc.1	Sc.2				
7	10.5	10.8	10.4	10.57 1 2 2	~~10.85~~
	11.2	11.4		11.30 1 1	~~11.60~~
	12.7	12.8		12.75 1 0	~~10.85~~ ~~11.65~~ 11.80 95 ~~95~~
	13.7	13.7		13.70 0 0	~~11.60~~ ~~12.30~~ 12.65 105 105
	13.5	13.8		13.65 1 2	11.65 12.65 100 100
14.0					12.30 13.15 85 85
7					12.70
					12.9
					13.4
					13.4
					13.8
					14.0

Reject P.C. for this Series. Discordant.

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Saturday, November 28, 1914

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Inc Series 317

Scale R. Inc 6220 C11 Aet. +.16 P. C.

	Sc.1	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.2		
		Mag. slight to be reduced			7.	10.9	10.90	00
2	3.9	4.7.				11.1	10.9	11.00 11
3	3.8	4.1.			8m. poor.	11.8	11.7	11.75 01
4	5.1	5.4.				11.9	11.9	11.90 00
5	5.4	5.7.				12.7	12.7	12.70 00
6	4.8	5.1.		5.25 21		12.6		
7	5.9	6.2.		2.60 8.80		13.1		
8	5.9	6.2.		2.60 8.80		13.1		
9	6.9	7.2.		2.16 9.36		13.8		
10	6.7	7.0.		2.25 9.25		13.9		
11	7.5	7.8.		1.92 9.72		13.9		
12	7.6	7.9.	B	1.88 9.78		7.		
13	7.9	8.2.	B.	7.90 1.32 1.88 9.78		7.		
14	7.8	8.1.	B.	8.10 1.82 9.92				
15	8.7	9.0.	8.9	8.95 01 1.55 10.50				
16	8.9	9.2.	9.1	9.15 01 1.49 10.64				
17	7.		9.7	1.34 11.04				
18	7.		9.6	1.36 10.96				
19			10.4	1.16 11.56				
20			10.2	1.20 11.40				
21			10.8	1.10 11.90				
22			10.9	1.09 11.99				
23			10.8	1.10 11.90				
24			11.2	1.08 12.38				
25			11.4	1.08 12.48				
26			11.9	1.16 13.05				
27			11.9	1.15 13.05				
28			12.1	1.17 13.27				

7.5 7.8 8.1

7.7 7.4

7.4. stars very close

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1914phae.proj.1042M

Saturday November 28, 1914

Tone Series 317

Scale R Tone 6220 C11 (cont)

	Sc.1	Sc.2			Curve	Magn
29		12.3			1.22	13.52
30		12.7			1.27	13.97
31		13.0	12.9	12.95 01	1.31	14.26
32		~~13.7~~ 12.9	12.9	12.90 00	1.30	14.20
33		13.7	13.7	13.70 00	1.57	15.27
34		13.9	13.9	13.90 00	1.80	15.70
35		13.9	13.9	13.90 00	1.80	15.70
36		14.1	14.1	14.10 00	.	.
37		~~14~~	.	.	.	.

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Inc Series 317

Scan R | Inc 6221 | D11 | Alt. -.221 | P.C.

		Sc.1	Sc.2	Curve Magn.	Sc.1	Sc.2		
Too hr. to be reduced	1				7.	11.9	12.2	12.05 .12
" " " "	2					12.8	12.7	12.75 .01
Too far from center	3					12.4	12.6	12.50 .11
Im. poor	4					12.7	12.7	12.70 .00
	5	5.6 5.3				12.8	12.9	12.85 .01
Im. poor	6					12.8		Reject
	7	5.9 5.6				13.2		
	8	5.7 5.4				12.9		
Im. poor	9					13.8		
Scratched	10	6.6 6.3		242	9.02 98	Incon. def. 13.43		
	11	6.6 6.3		242	9.02	13.8		
	12	6.7		225	9.25	13.9		
	13	7.0 7.3		213	9.43	13.9		Def.
	14	7.7 8.0	13.	184	9.84	7.		
	15	8.3 8.6	8.4	8.50 .11	169 10.19	7.		Im.
8.4	16	8.3 8.6	8.0	8.33 .33	174 10.07			
8.5	17	8.5 8.8	8.4 8.6	8.87 .115 (65 22 30)	164 10.29			
	18	8.7 9.0	8.9	8.95 .01	155 10.50			
	19	8.8 9.1	8.9	9.00 .11	154 10.54			
	20	8.9 9.2	9.2	9.20 .00	149 10.69			
	21	7.	9.4		142 10.82			
	22		8.9		157 10.47			
	23		9.7		133 11.03			
	24		9.6		137 10.97			
	25		10.3		118 11.48			
	26		10.6		119 3 11.73			
	27		10.7		0.2 11.82			
	28		10.8		11.90			

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Saturday Noon Dec 28, 1914

mc Series 317

Scale R mc 6221 D 11 (cont.) alt. 22 PC.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
29		10.9		1.09	11.99		
30		11.4		1.08	12.48		
31		11.7		1.11	12.81		
32		11.8		1.14	12.94		
33		11.8		1.14	12.94		
Defective. 34		.		.	.		
35		12.6		1.25	13.85		
36		12.7	12.7	1270 00	1.27	13.97	
37		12.8	12.8	1280 00	1.29	14.09	
38		12.9	12.9	1290 00	1.30	14.20	
39		13.0	13.1	1305 01	1.32	14.37	
40		13.8	13.9	1385 01	1.72	15.57	
Def? 41		.		.	.		
42		13.9	14.0	1395 10	1.95	15.90	
Dim. foor. 43		13.9?	13.9?	1390 00	1.82 ~~1.69~~	15.72 ~~15.59~~ ?	
44		7.		.	.		
45		7.		.	.		
46		7.		.	.		

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1914phae.proj.1042M

Saturday, November 28, 1914

Inc Series 317

Scale R Inc 6222 Saturn 1904 21.20 -15 (11-21)* P.C.

	Se.1	Se.2		Curve	Magn	Se.1	Se.2
	6.4.						
1	6.1			2.50	8.90		14.0
	7.0.						
2	6.7			2.25	9.25		
	7.7.						
3	7.4	R		1.96	9.66		14.1?
	8.0.						
4	7.7	B.		1.84	9.84		
	8.3.						
5	8.0	8.0	8.15	1.80 1.75	9.95 9.90		14.1?
	8.9.						
6	8.6	8.7	8.50	1.1 1.60	10.40		
	9.2.						
7	8.9	9.1	9.15	0.1 1.49	10.64		
8	7.	10.2			1.20 11.40		
9		10.6			1.13 11.73		
10		10.9			1.09 11.99		
11		10.9			1.09 11.99		
12		11.3			1.08 12.38		
13		11.5			1.09 12.59		
14		11.7	11.8	11.75	1.0 1.13 12.88		
15		12.1	11.8	11.95	1.2 1.15 13.10		
16		12.4	12.4	12.40	0.0 1.22 13.62		
17		12.5	12.7	12.60	1.1 1.25 13.85		
18		12.7	12.8	12.75	1.0 1.27 14.02		
19		13.2	13.3	13.25	0.1 1.39 14.64		
20		13.3	13.4	13.35	1.0 1.42 14.77		

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Mc Series 317

Scale R Mc 6223 C 12 Alt. +16 P C.

Sc.1	Sc.1	Sc.2		Curve Magn.	Sc.1	Sc.2	
1	.				8.7 8.4	8.5	8.60 1 1
2	.				Double Perm. 9.2 8.9	9.0	9.10 1 1
3	.				4.	9.6 9.6	9.60 0 0
4	.					9.8 9.8	9.80 0 0
5	4.6 4.3					10.2 10.2	10.20 0 0
6	4.9 4.6					10.6	
7	5.5 5.2					10.7	
8	5.5 5.2					10.9	
9	6.1 5.8					11.2	
10	6.5 6.2			2.47	8.97	11.5	
11	6.7 6.4			2.39	9.09	11.6	
12	7.0 6.7			2.25	9.25	12.0	
13	7.4 7.1			2.08	9.48	12.3	
14	7.6 7.3			1.99	9.59	12.3	
15	7.1 6.8	R.		2.21	9.31	12.3	
16	8.0 7.7	B.		1.84	9.84	12.9	
8.3	8.6 8.5 8.2	8.9	8.67 1 2 2	1.69	10.36	(Wh. star) 13.2	
17a	9.0 8.7	8.9	8.95 0 1	1.54	10.49	13.7	
18	9.3 9.0	9.3	9.30 0 0	1.47	10.77	13.9	
* 19a	7.	9.9		1.27	12.17	13.9	
20		10.2		1.20	11.40	14.0	
21		10.5		1.14	11.64		
21a		10.9		1.09	11.99		
22		11.3		1.07	12.37		
23		11.2		1.07	12.27		
24		11.8		1.13	12.93		
25		11.6		1.10	12.70		
		11.7		1.10	12.80		

* See note on reference plate Mc 3611

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Saturday, November 28, 1914

Inc Series 317

Scan R Inc 6223. C 12 (cont) alt. +.16

	Sc.1	Sc.2			Curve	Magn
27		12.2			1.19	13.39
28		11.9			1.13	13.03
29		12.9	13.0	12.95 10	1.31	14.26
30		13.2	13.1	13.15 01	1.34	14.49
31		13.7	13.4	13.55 12	1.51	15.06
32		13.7	13.6	13.65 10	1.54	15.19
33		13.9	13.9	13.90 00	1.80	15.70
34		14.2	17			
35						

25m out

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1914phae.proj.1042M

Saturday, November 28, 1914

Tne Series 317

Scale R Tne 6224 Pole Pe..

	Sc.1	Sc.2		Sc.1	Sc.2 Reject	
5				Elongated		
6				"		
8					10.8	10.9 10.85 01
9					11.7	11.5 11.60 11
10	6.1				11.7	11.6 11.65 10
11	6.9				12.3	12.3 12.30 00
12	7.7	B.			12.6	12.8 12.70 11
13	8.2	8.21	8.35 12		12.9	
14	8.6	8.9	8.90 00		13.4	
15	7	9.3			13.4	
16		10.1			13.8	
17		10.3			14.0	
18		10.9				
19		11.3				
20		11.6				
22		11.9				
25		12.7				
26		13.0	12.9	12.95 01		
27		13.2	13.1	13.15 01		
28		13.7	13.4	13.55 12		
29		13.9	13.9	13.90 00		
30		13.9	13.9	13.90 00		
31		14.0	13.9	13.95 01		
32		7.	7.			

See p. 93

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Mc Series 317

Scale R Mc 6225 Carte alt. + 18 0 0 + 17.5 P.C.

	Sc.1	Sc.2		Curve.	Magn	Sc.1	Sc.2			
Too bright to be reduced	1					7.	10.4	10.3	10.35	01
	2	5.7 (6.0)					11.1	11.0	11.05	10
	3	6.9 (7.7)			2.16	9.36	12.1	12.0	12.05	10
	4	7.8 (8.1)	R		1.82	9.92	12.8	12.8	12.80	00
	5	7.	10.1		1.23	11.33	14.0	14.1?	14.05	01
	6		10.5		1.14	11.64	7.			
	7		10.9		1.07	11.97				
	8		11.8		1.12 (21)	12.92				
	9		12.0		1.14	13.14				
	10		11.9		1.13	13.03				
	11		12.1	12.2	12.15	10 1.18 13.33				
	12		12.3	12.6	12.45	12 1.23 13.68				
	13		12.9	12.9	12.90	00 1.30 14.20				
	14		13.3	13.1	13.20	11 1.37 14.57				
	15		13.6	13.4	13.50	11 1.48 14.98				

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Saturday, November 28, 1914

Me Series 317

Scale R Me 6226 γ Andromedae Ref. Seq. P.E.

alt. +.20

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	
Too bright to be reduced	1			Im. fac.	8.4 8.7	8.8	8.75 10
	2				7.	9.7	9.7 9.70 00
	3 5.1 5.4				7.	10.4	10.7 10.65 21
	4 5.9 6.7			2.60	8.80	10.8	10.9 10.85 01
	5 6.2 6.5			2.47	8.97	11.6	11.4 11.50 11
	6 7.8 8.1	B.		1.82	9.92	12.8	
	7 7.2 7.5	B. +2.3		2.03	9.53	12.3	
	8 7.	9.4		1.42	10.82	Def.?	+3.9 12.1
	9	9.9		1.28	11.18	Def.?	13.6
	10	10.9		1.09	11.99		14.0?
	11	10.9		1.09	11.99		7.
	12	11.2		1.07	12.27		
	13	11.7		1.11	12.81		
	14	12.1		1.16	13.26		
	15	12.3		1.22	13.52		
	16	12.4	12.3 12.35 01	1.22	13.57		
	17	12.8	12.8 12.80 00	1.29	14.09		
	18	13.0	13.1 13.05 01	1.32	14.37		
	19	13.6	13.7 13.65 01	1.54	15.19		
	20	13.8	13.9 13.85 01	1.72	15.37		

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1914phae.proj.1042M

Saturday November 28, 1914

Cofield

Mc Series 317

Scale R. Mc 6226 γ Andromedae Alt. +.20 P.C.

	Sc.1	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.2		
	f	5.5 5.2			γ.	10.4	10.4	1040 00
	a	6.1 5.8			γ.	10.8	10.7	1075 01
6.0 5.7	d	5.6 5.3		580 22		10.7	10.7	1070 00
	f	6.6 6.3		242 902		11.3	11.6	1145 12
	c	7.3 7.0		213 943		11.4	11.7	1155 21
	e	7.5 7.2		203 953		12.3		
7.3 7.0	g	7.1 6.8	B.	7.20 11 288 16 936		11.8		
	h	8.0 7.7	8.0	8.00 00 184 984		12.6		
	k	8.6 8.3	8.6	8.60 00 167 1027		13.1		
	l	8.9 8.6	8.7	8.80 11 160 1040		13.1		
	m	8.6 8.3	8.3	8.45 21 170 1015		12.8		
Has very faint comp.	n	8.9 8.6	8.9	8.90 00 157 1047		13.2		
	o	9.0 8.7	9.0	9.00 00 154 1054		13.2		
	q	γ.	9.6	136 1076		13.9		
	q		10.2	120 1140		14.0		
	r		10.3	118 1148		14.0		
	t		10.3	118 1148		γ.		
Double.	s							
	u		10.8	110 1190				
	w		11.0	107 1207				
	w'		11.0	107 1207				
	x		11.2	107 1207				
	x'		11.7	11 81 120 1290				
	x^2		12.2	119 1339				
	z		12.3	120 1350				
	y		12.9	130 1420				
	β		12.7	12.8 12.75 10 128 1403				

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1914phae.proj.1042M

Saturday, November 28, 1914

Mc Series 317

Scale P Mc 6226 T Androm. (cont.) P.E.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
α	12.6	12.6	12.60	00	12.5	13.85	
γ	13.0	13.0	13.00	00	13.2	13.32	
δ	13.8	13.8	13.80	00	1.66	15.46	
ε	13.7	13.8	13.75	10	161	15.36	
Var.		13.5	13.4	13.45	10	144	14.89

(25 m out)
2.45

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1914phae.proj.1042M

Thursday. December 3, 1914

11.55 Inc Series 289

Scale R. Inc 5885. Pole

	Sc.1	Sc.2	Inc 5890 Ph III		Sc.1	Sc.2	Inc 5890 Ph III Means		PE.
5				7.3	7.1	B	7.50 1 1	8.00	7.75 .25 .25
6					7.7	8.0	8.00 .00	8.77	8.38 .38 .39
8					7	9.7	9.8 9.75 .10	10.10	9.92 .17 .18
9				Diff.		10.7	10.7 10.700	10.75	10.72 .02 .03
10	5.2		5.7	5.60 1 1	3.42	10.8	10.8 10.800	10.90	10.85 .05 .05
11	6.1		6.7	6.55 2 1	3.00	11.7		11.7 11.70	.00
12	6.3		7.1	6.85 2 3	3.01	11.7		12.0 11.85	.12
13	6.9		8.0	7.60 4 4	2.70	12.7		12.2 12.45	.22
14	7.5	B.	8.10	7.95 2 1	2.70	12.9		12.9 12.90	.00
15	7.9	8.1	8.15 0 1	8.75 8.45	.30 .30 2.63	13.3		12.9 13.10	.22
16	8.1	8.7	8.55 2 1	9.15 8.85	.30 .30 2.55	13.2		13.5 13.40	.11
17	8.7	8.7	8.85 2 1	9.4 9.12	.27 .28 2.51	7.		13.8 13.80	.a
18	7.	9.9		10.1 10.00	1 1 2.06			P.	
19		10.9		10.6 10.75	1 2 1.67				
20		10.8 10.6	10.70 1 1	10.7 10.80	1 0 1.93				
23		11.3 11.4	11.35 1 0	11.4 11.38	.03 .02 1.96				
25		11.9 11.9	11.90 0 0	11.8 11.85	.05 .05 2.02				
26		12.7 12.8	12.75 1 0	12.65 12.70	.05 .05 1.63				
27		12.9 12.8	12.85 1 0	12.75 12.90	.05 .05 1.79				
28		13.6 13.7	13.65 0 1	13.15 13.40	.25 .25 1.71				
29			,	13.85 13.85	. a 1.81				
30			,	13.95 13.95	. a 2.09				
31			,	13.95 13.95	. a 2.27				
32			,	,	,				

Close to scratch

Scratched

Close to scratch

Plate badly scratched

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1914phae.proj.1042M

Thursday. December 3, 1914

Me Series 289

Scale R	Me 5886		In 15		P.e.	
	Sc.1	Sc.2			Sc.1	Sc.2
-1.26	1					
-1.27	2					
-1.69	3					
-1.89	4					
-1.83	5	Images elongated - Too few "Do not measure H.S."				
-2.15	6	Quality changed from B+ to B.				
-1.99	7					
-2.15	8					
-2.25	9					
-2.02	10					
-2.00	11					
-2.17	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

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1914phae.proj.1042M

Thursday, December 3, 1914

Mc 289

Card.

Scale ∏ | Mc 5887 | S Cephei | alt. + 13 | Pe

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2		Curve
	4.8.							
a	4.5				7.	9.9	9.7	9.80 11 −.167 8.13
	5.6.							
d	5.3			3.31 8.91		10.3	10.4	10.35 10 −.179 8.56
	6.7.							
e	5.9			3.16 9.36		10.9	10.9	10.90 00 −.192 8.98
	6.9.							
c	6.6			2.96 9.86		11.8	11.7	11.75 01 −.205 9.70
	6.0.			3.21				
f	5.7			~~2.93~~ 9.21		10.9	10.9	10.90 00 −.192 8.98
	6.9.							
f	6.6	B.		2.96 9.86		11.7		−.204 9.66
	8.2.			60				
h	7.9	8.2	8.20 00	~~2.88~~ 10.80		12.9		−.210 10.80
	8.7.			61				
g	7.9	8.1	8.15 01	2.89 10.76		12.3		−.211 11.19
	9.0.							
k	8.7	8.9	8.95 01	2.42 11.37		13.7		−.208 11.62
l	7.	9.7		2.22 11.92		12.9		−.207 11.83
						7.		
m		9.9		2.17 12.07				
n		10.4		2.04 12.44				
n'		10.8		1.94 12.74				
o		11.8		1.79 13.59				
q		11.7		1.81 13.51				
q		11.7		1.81 13.51				
r		12.8	12.9	12.85 01 1.73 14.58				
s		13.1	13.1	13.10 00 1.73 14.83				
t		13.5	13.4	13.45 10 1.79 15.24				
u		13.7	13.4	13.55 12 1.82 15.37				
w		13.8	13.9	13.85 01 1.98 15.83				

9m. pec.

Var. 7.

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1914phae.proj.1042M

Thursday, December 3, 1914

corrected

Ymc 289

Card.

Scale P Ymc 5888 Carte 22.0 +17.5 P.E.

alt. +.18

Sc.1	Sc.2	Sc.3	Curve	Magn	Sc.1	Sc.2	Curve	Magn
1 3.4 2.7					8.7 90.	8.9	8.95 01	−1.45 7.50
2 5.4 5.7			3.29	8.99	9m Sing. 7	10.7 10.7	10.70 00	−1.88 8.82
3 5.8 6.1			3.19	9.29		11.4 11.3	11.35 01	−1.99 9.36
4 6.6 6.9			2.96	9.86		11.9 11.9	11.90 00	−2.06 9.84
5 6.8 7.1			2.91	10.01		12.1 11.9	12.00 11	−2.07 9.93
6 7.4 7.7			2.75	10.45		12.7		−2.10 10.60
7 7.7 8.0		B.	2.66	10.66		13.2		−2.11 11.09
8 8.8 9.1		8.8	8.95 12	2.72 11.37		13.8		−2.07 11.73
9 9.7		9.7	2.22	11.92		14.0		−2.06 11.94
10		10.1	2.11	12.21		7		. .
11		10.8	1.94	12.74				
12		10.9	1.93	12.83				
13		11.3	1.86	13.16				
14		11.2	1.88	13.08				
15		11.7	1.81	13.51				
16		12.3	12.2	10.26 10	1.75	14.00		
17		12.7	12.7	12.70 00	1.73	14.43		
18	12.9	13.2	12.8	12.97 12	2 1.72	14.70		
19		13.0	13.0	13.00 00	1.73	14.73		
20		13.7	13.8	13.80 00	1.96	15.76		

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1914phae.proj.1042M

Thursday December 3, 1914

Mc Series 289

Scale R Mr C 5889 Carte P.C.

	Sc.1	Sc.2	Sc.1	Sc.2
1				
2				
3				
4	Images elongated.			
5	"Do not measure H.S.L."			
6	Quality changed from B+ to B.			
7				
8				
9				
10	10.1			
11				
12				
13				
14	11.1			
15				
16				
17				
18				
19	13.3			
20				

(85 m ent)

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1914phae.proj.1042M

Thursday December 3, 1914

Mc 5890

Scale R	Mc 5890 Sc.1	Sc.2		Pole	Sc.1	Sc.2	
5					7.6 7.8	B.	8.00 1 1
6					8.6	8.7 8.7	8.77 1 11
8					7.	10.1 10.1	10.10 0 0
9						10.7 10.8	10.75 1 0
10	5.4					10.9 10.9	10.90 0 0
11	6.4					11.7	
12	6.8					12.0	
13	7.2	B.				12.2	
14	7.9	8.0	8.10 1 1			12.9	
15	8.5	8.7	8.75 0 1			12.9	
16	8.9	9.1	9.15 0 1			13.5	
17	7.	9.4				13.8	
18		10.1				7.	
19		10.6					
20		10.9					
22		11.4					
25		11.8					
26		12.6	12.7	12.65 0 1			
27		12.9	13.0	12.95 1 0			
28		13.1	13.2	13.15 1 0			
29		13.8	13.9	13.85 0 1			
30		13.9	14.0	13.95 1 0			
31		14.0	13.9	13.95 0 1			
32		7.					

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1914phae.proj.1042M

Thursday, December 3, 1914

copied:

Mc Series 289

Card

Scale P Mc. 5891. Carte (corr.) 23 0 +25.0 PE

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
Too bright to be reduced.	α				8.1. 7.8	8.0	8.05 10	-1.21 6.79
	β 7				8.4. 8.1	8.4	8.40 00	-1.30 7.10
	V 8	5.6. 5.3		3.31 8.91	7.	10.8 10.8	10.80 00	-1.90 8.90
	1	5.8. 5.5		3.26 9.06	Im. Hazy.	10.7 10.7	10.70 00	-1.88 8.82
	2	6.6. 6.3		3.04 9.64		11.9 11.9	11.90 00	-2.06 9.84
	3	7.0. 6.7		2.92 9.92		11.9		-2.06 9.84
	4	7.5. 7.2	B.	2.80 10.30	*	12.8		-2.10 10.70
	5	8.7. 8.4	8.5	8.35 2.1 2.56 10.91	Im. Hazy.	13.4		-2.11 11.29
	6	8.9 8.6	8.9	8.90 00 2.43 11.33		13.2		-2.08 11.72
	7	7.	9.9	2.16 12.06		7.		
	8		10.0	2.13 12.13				
	9		10.3	2.05 12.35				
	10		10.6	1.99 12.59				
	11		10.9	1.93 12.83				
	12		11.7 11.6	11.65 10 1.82 13.47				
	13		12.2 12.3	12.25 01 1.75 14.00				
	14	12.0	12.4 12.1	12.22 17 2.21 01 1.76 13.93				
	15		13.0 13.1	13.05 01 1.73 14.78				
	16		13.7 13.7	13.70 00 1.88 15.58				

* Remeas. Jan. 27, 1916
R.C. sc.2
3 12.2
4 12.6
5 13.5

* Evidently accidental error. Correct image measured, and no mistake of unit. Image does not compare well. H.T.M.

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1914phae.proj.1042M

Thursday, December 3, 1914

copied

mc Series 289

Scale R mc 5892 Carte 230 +39.5 Alt. +2.3 Card PC.

	Sc.1	Sc.2	Curve	Magn		Sc.1	Sc.2	Curve	Magn
1	9.4 (3.7)					8.7 (9.0)	9.0	9.00 00	-1.46 7.54
2	5.2 (5.5)	B.				7.	10.7 10.4	10.55 12	-1.83 8.72
3	6.4 (6.7)	B	3.02	9.72			11.8 11.6	11.70 11	-2.04 9.66
4	8.8 (9.1)	9.1	9.10 00	2.37 11.47			13.7 13.8	13.75 10	-2.08 11.67
5	7.	10.0		2.14 12.14		Ref.			1
6		10.5		2.01 12.51		7.			
7		10.7		1.96 12.66					
8		10.9		1.93 12.83					
9		11.8		1.79 13.59					
10		12.3		1.75 14.05					
11		12.7	12.7	1270 00	1.74 14.44				
12		12.9	12.8	12.85 10	1.72 14.57				
* 13		13.9	13.9	~~13.90 00~~	~~2.01 15.91~~ 1477	reject. see below.			
14		13.8	13.7	13.75 01	1.91 15.66				
15		13.4	13.3	13.35 01	1.77 15.12				

* Wrong star marked + measured.

Remeas. Jan. 20, 1916. O Recorder.

13 wrong star.

14 13.6

15 13.4

} 14 as measured above is O.K. Per mt.

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1914phae.proj.1042M

Thursday, December 3, 1914

+13

Mc Series 289 Card

Scale R. Mc 5893 Gros. 00 10 +10.5 Pc.

	Sc.1	Sc.2	Curve	Magn		Sc.1	Sc.2	Curve
1	6.3	B.	3.04	9.64		11.7	11.8	11.75 1 0 -2.04 9.71
2	7.9		2.60	10.80		12.7	12.7	12.70 0 0 -2.10 10.60
3	7.9	B.	2.60	10.80		12.8	12.9	12.85 0 1 -2.10 10.75
4	8.3	8.8	8.70 1 1	2.47 11.17		12.9	13.0	12.95 1 0 -2.11 10.84
5	7	9.7	2.22	11.92		13.8	13.7	13.75 0 1 -2.08 11.67
6		9.7	2.22	11.92		13.8		-2.08 11.72
7		9.9	2.17	12.07	3m hazy			" "
8		9.9	2.17	12.07		7		" "
9		10.4	2.04	12.44				
10		11.1	1.90	13.00				
11		11.4	1.84	13.24				
12		11.7	1.81	13.51				
13		11.9	1.79	13.69				
14		12.6	1.73	14.33				
15		11.9	1.79	13.69				
16		12.8 12.7	12.75 0 1	1.72 14.47				
17		12.8 12.9	12.85 0 1	1.72 14.57				
18		12.8 12.9	12.85 0 1	1.72 14.57				
19		13.0 13.1	13.05 0 1	1.72 14.77				
20		13.3 13.5	13.40 1 1	1.79 15.19				

(25m out)

2.53

Last plate plate too poor-quality C.

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1914phae.proj.1042M

Thursday, January 7, 1915

10.55

mc Series 384

Scale P mc 7034 Pole

	Sc.1	Sc.2	mc 7039 Mean fp 124		Sc.1	Sc.2		P.C.		7039 fp 124	
5					7.7 (8.0)	7.7 (8.0)		B.	8.00 00	7.90	7.95 − 146
6						8.6 (8.9)		8.8	8.85 10	8.50	8.68 − 1.57
8						7.		10.2	10.1 10.15 01	10.00	10.08 − 1.85
9								10.9	10.9 10.90 00	10.75	10.82 − 1.99
10	5.4 (5.7)		5.4	5.55	1 2	3.47		10.9	10.9 10.90 00	10.80	10.85 − 1.83
11	6.1 (6.4)		6.2	6.30	1 1	3.25		11.7		11.6	11.65 − 2.10
12	6.5 (6.8)		6.5	6.65	2 1	3.21		11.8		11.8	11.80 − 1.94
13	7.3 (7.6)		7.1	7.35	2 3	2.95		12.5 (13.1)		12.3	12.40 − 2.10
14	7.7 (8.0)		7.4	7.70	3 3	2.95		13.0	13.1 13.05 01	12.8	12.92 − 2.27
15	7.9 (8.2)	B	7.9	8.05	2 1	3.03		13.2		13.0	13.10 − 2.02
16	8.5 (8.8)	8.6	8.70	1 1 8.30	8.50	20 20	2.90	13.6		13.4	13.50 − 2.10
17	8.6 (8.9)	8.9	8.90 00	8.57	8.73	17 16	2.90	13.8		13.9	13.85 − 2.22
18	7.	9.7		9.30	9.50	20 20	2.56	14.1		13.9	14.00 − 1.94
19		9.9		9.8	9.85	1 0	2.57	7.		∫ .	.
20		10.3		10.1	10.20	1 1	2.53				
23		11.1		10.9	11.00	1 1	2.34				
25		11.8		11.6	11.70	1 1	2.17				
26		12.2 12.5	12.20 00	12.0	12.10	10 10	2.23				
27		12.7 12.9	12.80 1 1	12.75	12.78	02 03	1.91				
28		13.2 13.1	13.15 01	13.15	13.15	00 00	1.96				
29		13.8 13.8	13.80 00	13.80	13.80	00 00	1.86				
30		14.1 14.1	14.10 00	13.90	14.00	10 10	2.04				
31		13.9 13.9	13.90 00	14.00	13.95	05 05	2.27				
32		7.		∫							

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1914phae.proj.1042M

Thursday. January 7. 1915

Card.

Inc Series 324

Scale R Inc. 7035 R Aurigae Ref. Seq. Alt. +.20 P.C.

	Sc. 1	Sc. 2		Curve	Magn	Sc. 1	Sc. 2		
						7.			
1	13.9 47'						9.6	9.7	9.66 01 -1.70 7.95
2	5.1 54'			3.44	8.84		10.9	10.8	10.85 10 -1.99 8.86
3	5.8 61'			3.30	9.40		11.1	11.1	11.10 00 -2.01 9.09
4	7.0 73'			3.05	10.35		12.7	12.7	12.70 00 -2.11 10.59
5	7.7 80'		B.	2.92	10.92		13.0	12.9	12.95 01 -2.12 10.83
6	8.1 84'		8.6	8.50 ± 1	2.83 11.33		13.8		-2.14 11.66
7			9.6		2.58 12.18		7		
8			10.0		2.48 12.48				
9			10.4		2.39 12.79				
10			10.7		2.33 13.03				
11			11.1		2.24 13.34				
12			11.9		2.11 14.01				
13			11.8		2.12 13.92				
14			11.9	12.1	12.00 ± 1	2.08 14.08			
15			12.7	12.8	12.75 ± 0	1.99 14.74			
16			12.7	12.7	12.70 00	1.99 14.69			
17		13.3	~~13.7~~	13.2	13.25 10	1.95 15.20			
18			14.0	14.0	14.00 00	1.99 15.99			

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1914phae.proj.1642M

Thursday, January 7, 1915

copied

Inc Series 384

Card.

Scale R Inc 7035 R Aurigae Var. Seq. Alt +80 P.E.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2		Curve	Magn
Image poor	a				7.3 (7.6') (7.4') 7.1	B.	7.50	11 – 1.36	6.14
" "	b (Rej.)				8.8 (9.1')	9.2	9.15	10 – 1.72	7.43
" "	c				8.5 (8.8')	8.6	8.70	11 – 1.63	7.07
" "	c'				7	9.5 9.7	9.60	11 – 1.80	7.80
" "	c^2					10.1 10.2	10.15	10 – 1.89	8.26
*	d 5.4 (5.1')		3.38	9.08		10.6		– 1.95	8.65
	e 5.4 (5.1')		3.38	9.08		10.8		– 1.98	8.82
	f 6.2 (6.5')		3.22	9.72		11.4		– 2.03	9.37
	g 6.3 (6.6')		3.19	9.79		11.7		– 2.06	9.64
	g^1 6.3 (6.6')		3.19	9.79		11.8		– 2.07	9.73
	g^2 6.9 (7.2')		3.07	10.27		12.2		– 2.09	10.11
	g^3 7.4 (7.7')		2.97	10.67		12.4		– 2.10	10.30
	h 7.3 (7.6')		3.00	10.60		12.9		– 2.12	10.78
	k 7.1 (7.4')		3.03	10.43		12.7		– 2.11	10.59
Close to fainter star	l 7.8 (8.1')	B.	2.90	11.80		13.0		– 2.13	10.87
	m 8.7 (9.0')	8.9	8.95 01 2.72	11.67		13.9		– 2.14	11.76
	n 8.1 (8.4')	8.1	8.25 21 2.87	11.12		Wrong star ~~11.8~~		Sup. one brighter star?	
	o 8.3 (8.6')	8.7	8.65 01 2.80	11.45		Def?		. .	
	o' 8.9 (9.2')	9.1	9.15 01 2.68	11.83		13.9		-2.14	11.76
	o^2 7.	9.8	2.53	12.33		14.0		-2.14	11.86
*	p	10.8	2.30	13.10	Remeasures. c, 2.3 c' 3.5		February 25, 1915. Rec. O.		
	q	10.7	2.33	13.03					
	r	11.1	2.24	13.34	* d 5.3		*Coincidence any discordance in d is due to accidental error. G.F.M. Feb. 25, 1915		
	s	11.8	2.12	13.92	e 5.3 f 5.9				
	t	12.3	2.03	14.33	Star images				
	u	12.8 12.7	12.75 01 (1.99)	14.74	y.	13.9	14.0	13.95 10 1.98	15.93
	w	12.9 13.0	12.95 11 (1.96)	14.91	z	13.9	13.9	13.90 00 1.97	15.87
* p omitted See same mistake	x	13.8 13.7	13.70 11 (2.78)	15.67				-2.14 -1.96	11.46

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1914phae.proj.1042M

Thursday, January 7, 1915

Mt Series 384

Card

Scale R Mt. 7036 Auriga Ref. Seq. Alt +.19 P.C.

	Sc.1	Sc.2	Curve Magn		Sc.1	Sc.2	Curve Magn	
1	12.9				9.5	9.5	9.50 00	−1.77 7.73
2	4.9			Too much elong.	.	.	.	. .
3	5.9		3.28	9.48	11.2	11.3	11.25 01	−2.03 9.22
4	6.7	B.	3.12	10.12	11.9	11.9	11.90 00	−2.07 9.83
5	8.1	8.4	8.40 00	2.84 11.24	13.4	13.4	13.40 00	−2.14 11.26
6	8.6	8.8	8.85 10	2.74 11.59	13.9	13.9	13.90 00	−2.18 11.76
7	8.9	9.4	9.30 11	2.65 11.95	13.8	13.9	13.90 11	−2.14 11.76
8	7.	9.9		2.51 12.41	7	.	.	.
9		10.7		2.33 13.03				
10		11.0		2.26 13.20				
11		11.1	10.9	11.00 11 2.26 13.26				
12		11.4	11.6	11.50 11 2.17 13.67				
13		12.1	11.9	12.00 11 2.09 14.09				
14		12.9	12.9	12.90 00 1.97 14.87				
15		13.1	13.1	13.10 00 1.96 15.06				

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1914phae..proj.1042M

Thursday January 7.19.15

copied

Card

mc Series 384

Scale R mc 7036 T Aurigae Var. Seq. Alt +.19 * P.E.

		Sc.1	Sc.2	Curve		Sc.1	Sc.2		Curve Magn
Sec not on cover	b	.	.			6.1 5.8	6.1 5.8	6.10 00	
" " " "	d	.	.			7.0 6.7	7.0 6.7	7.00 00	
" " " "	e	.	.			6.9 6.6	7.0 6.7	B. 6.95 10	
" " " "	f	.	.			.	.		
" " " "	f'	.	.			.	.		
" " " "	g	.	.			8.0 7.7	8.0 7.7	B. 8.00 00	-.147 6.53
" " " "	g'	.	.			8.6 8.3	8.4 8.1	8.2 8.50 11 (4 202 17)	-.157 6.83
" " " "	k	.	.				8.9 8.6	8.8 8.85 10	-.166 7.19
" " " "	k'	.	.					9.1 9.1 9.10 00	-.170 7.40
" " " "	h	.	.			.	.	. .	
Image along	m	.						10.1	-.188 8.22
" "	l	.						10.1 10.1 10.10 00	-.188 8.22
	l'	.	.					10.7	-.187 8.73
	o	5.2 55			3.42	8.92		10.9	-.199 8.91
	n	.	.		.	.		11.3	-.203 9.27
	p	6.3 66			3.20	9.80		11.8	-.207 9.73
	q	6.8 71			3.09	10.19		12.0	-.208 9.92
	r	7.2 75			3.01	10.51		12.9	-.212 10.78
	s	7.3 76			2.99	10.59		12.9	-.212 10.78
	s'	7.4 77		B.	2.97	10.67		13.1	-.213 10.97
	s^2	8.0 83		8.3 8.30 00	2.86	11.16		13.3	-.214 11.16
	s^3	8.9 97		9.2 9.20 00	2.66	11.86		14.0	-.214 11.86
	t	7	10.1		2.45	12.55		7.	. .
	u		9.9		2.51	12.41			
	w		10.8		2.30	13.10			
	x		11.1		2.24	13.34			
	y		11.2		2.22	13.42			

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1914phae.proj.1042M

Thursday, January 7, 1915

Inc Series 384

Scale R Inc. 7036 R Aurigae Var. Seq. (cont) P. C.

		Sc. 1	Sc. 2			Curve	Magn	Sc. 1	Sc. 2
	z	11.7				2.14	13.84		
	α	12.8	12.8	12.80	00	1.98	14.78		
	β	13.1	13.1	13.10	00	1.96	15.06		
Scratched	γ	13.6	13.7	13.65	01	1.97	15.62		
	δ	13.8	13.8	13.80	00	1.97	15.77		
	ε	14.0	14.0	14.00	00	1.99	15.99		
Scratched	Var. 7.	12.9	12.9	12.90	00	1.97	14.87		

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1914phae.proj.1042M

Thursday, January 7, 1915

copies

Card.

Inc Series 384

Scale R Inc 7037 Neb. in Circin Alt -.08 P.C.

	Sc.1	Sc.2		Cumn. Magn	Sc.1	Sc.2
a	7.	9.9		2.51 12.41	7.	7.
b		10.6		2.35 12.95		
c		10.9		2.28 13.18		
d		11.7		2.13 13.83		
e		11.8		2.12 13.92		
f		12.2	12.3	12.25 01 2.04 14.29		
g		13.1	13.0	13.05 10 1.96 15.01		
h	13.2	13.2	13.5	13.30 1 1 2 1.95 15.25		
k		13.6	13.3	13.45 2 1 1.95 15.40		
*l	~~12.8~~	~~12.8~~		~~12.80 00 1.98 14.78~~		
m	7.	7.				

*l. 13.7

*Remeasured April 3, 1915
Wrong image measured for l; P.C. of a bright star. Reject 9.7.m.

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Thursday, January 7, 1915

copied

Cards.

m.c Series 384

Scale R m.c. 4037 neb. in Orion (cont) All-.08 P.C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	4.1 (4.4)		.366	8.06	7	10.3	10.3	10.30 00	-.191 8.39
2	4.7 (5.0)		.353	8.53		10.7	10.6	10.50 11	-.194 8.56
3	5.1 (5.4)		.344	8.84		10.8	10.7	10.75 01	-.198 8.77
4	6.7 (7.0)		.312	10.12		12.1	12.1	12.10 00	-.198 (2.0) 10.02
5	7.6 (7.9)	B.	.293	10.83		12.8	12.7	12.75 01	-.211 10.64
6	7.6 (7.9)	B.	.293	10.83		12.7			-.211 10.59
7	8.4 (8.7)	8.7	8.70 00	.278 11.48		13.9			-.214 11.76
8	7.	9.8		.253 12.33		14.0			-.214 11.86
9		10.2		.243 12.63		7.			" "
10		10.1		.245 12.55					
11		10.7		.233 13.03					
12		10.7		.233 13.03					
13		11.1		.224 13.34					
14		11.9		.210 14.00					
15		12.1	12.0	12.05 10	.208 14.13				
16		12.9	12.9	12.90 00	.197 14.87				
17		13.1	13.1	13.10 00	.196 15.06				
22 / 18		13.5	13.4	13.45 10	.195 15.40				
19		13.9?	13.9?	13.90 00	.198 15.88				
20		7.	7.	"	"				

Film scratched near.

Larger + Large.

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Thursday January 7. 1915

Card.

Me Series 384

Scarce R me 7038 Eros Comp. ~~Stars~~ 6.20+10 P.C.: Alt. + .13

	Sc. 1	Sc. 2		Curve	Magn.	Sc. 1	Sc. 2		Curve	Magn.
						7.				
1	3.9 4.2						10.3	10.1	10.20 1L - 1.90	8.30
2	5.6 5.9			3.34	9.24		10.9	10.8	10.85 10 - 1.99	8.86
3	5.8 6.1			3.31	9.41		11.1	11.2	11.15 L0 - 2.02	9.13
4	6.7 7.0			3.12	10.12		12.2	12.2	12.20 00 - 2.09	10.11
5	7.3 7.6			3.00	10.60		12.7	12.9	12.80 1L - 2.12	10.68
6	7.8 8.1		B.	2.90	11.00		13.3		- 2.14	11.16
7	8.8 9.1	8.9		9.00 1L	2.71	11.71	13.8		- 2.14	11.66
8	8.9 9.2	9.1		9.15 0L	2.67	11.82	13.9		- 2.14	11.76
9	9.0 9.3	9.1		9.20 1L	2.67	11.87	14.0		- 2.14	11.86
10	7.	9.7			2.56	12.26	n.s.?		.	.
11		9.9			2.51	12.41				
12		10.1			2.45	12.55				
13		10.6			2.34	12.94				
14		10.2			2.43	12.63				
15		10.8			2.30	13.10				
16		10.9	10.9	10.90 00	2.28	13.18				
17		11.7	11.4	11.55 12	2.16	13.71				
18		11.9	11.9	11.90 00	2.10	14.00				
19		12.8	12.8	12.80 00	1.98	14.78				
20		13.7	13.9	13.80 L1	1.97	15.77				

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Thursday. January 7. 1915

Mc Series 384

Scan R. Mc 7039 Pole P. C.

	Sc.1	Sc.1	Sc.2		Sc.1	Sc.1	Sc.2	
5					7.6	7.6	B.	7.90 00
6							8.5	8.50 00
8							10.1	9.9 10.00 11
9							10.7	10.8 10.75 10
10	5.1						10.9	10.7 10.80 11
11	5.9						11.6	
12	6.2						11.8	
13	6.8						12.3	
14	7.1						12.8	
15	7.6		B.				13.0	
16	8.1		8.2	8.30 11			13.4	
17	8.1	8.2	8.8	8.57 21 2			13.9	
18	8.9		9.4	9.30 11			13.9	
19	7.		9.8				7.	
20			10.1					
23			10.9					
25			11.6					
26			12.0					
27			12.7	12.8 12.75 10				
28			13.2	13.1 13.15 01				
29			13.8	13.8 13.80 00				
30			13.9	13.9 13.90 00				
31			14.0	14.0 14.00 00				
32			7.	7.				

(25 m out)

2.33

See p 115

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1914phao.proj.1042m

Thursday, January 14, 1915

10.45

Scase W mc Series 310 Yellow

mc 6153 Pole P.C.

	Sc.1	Sc.2	Sc.2		mc 6158 Mean −132	Diff	Sc.1	Sc.2		mc 6158 −132	
5	B						7.8	7.8	7.85 10	7.90	7.88 03 02 -145
6	2.0					488		8.4	8.35 01	8.30	8.32 03 02 -134
7								8.7	8.70 00	8.70	8.70 00 00 -124
8	4.3				4.4	4.40 00	3.63	9.1	9.15 10	9.20	9.18 03 02 -115
9	5.7	5.6	5.1	5.50 3 1 4	5.40	5.45 05 05	3.29	9.9	9.85 10	9.90	9.88 03 02 -114
10	5.9		5.8	5.90 1 1	5.85	5.88 03 03	3.00	10.0			10.00 -112
11	6.7		6.9	6.85 0 1	6.85	6.85 00 00	2.51				
12			6.8		6.90	6.85 05 05	2.73				
13			7.7		7.65	7.68 02 03	2.48				
14			7.8		7.75	7.78 02 03	2.49				
15			7.9		7.9	7.90 00 00	2.74				
16			8.6		8.3	8.45 2 1	2.49				
17			8.8		9.2	9.00 2 2	2.04				
18		9.3	9.1	9.20 1 1	9.2	9.20 00 00	2.36				
19		9.4	9.5	9.45 0 1	9.35	9.40 05 05	2.54				
20		9.8	9.8	9.80 0 0	9.80	9.80 00 00	2.39				
21		9.9	9.9	9.90 0 0	9.80	9.85 05 05	2.42				
22		9.9	9.9	9.90 0 0	9.75	9.82 08 07	2.67				
23					9.75	9.75	3.01				
Pole +87° 12	H.1	B.						9.1			
+88° 2	4.3	B						9.1			
9	5.8	5.8	5.85 1 0								
12.5	4.6	B.						9.4			
Pole +87° 15		B						9.2			
Pole +88° 8											
8											
11.5	5.8	6.2	6.05 1 2								

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Thursday January 14, 1915

Inc Series 310 Yellow

Scale W Inc 615.3 Pole (cont)

	Sc 1	Sc 2		Curve	Magn	Sc 1.	Sc 2		Curve	Magn
						7.8				
2r	B.					7.7	7.7	7.75 01	1.38	637
3r						7.	8.7	8.70 00	1.30	740
4r	4.7 4.6	B.		3.52	822		9.2	9.25 01	1.22	803
5r	5.5 5.4	5.1	5.30 22	3.26	856		9.9	9.85 10	1.11	874
6r	6.7 6.3	6.3	6.35 01	2.83	918		9.9	10.0? 9.95 10	1.09	836?
7r	6.9 6.9	6.9	6.95 01	2.64	959		7.			
8r		7.7	7.6 7.65 10	2.51	1016					
9r		7.9	7.9 7.90 00	2.50	1040					
10r		9.2	9.3 9.25 01	2.46	1171					
11r		9.1?	9.1 9.10 00	2.44	1154?					
12r		9.8?	9.7? 9.75 01	2.56	1231?					
4s	6.9 6.9	6.9	6.95 01	2.64	959					
5s	6.9 7.3	7.3	7.15 21	2.60	975					
6s	7.8 7.9	7.9	7.90 00	2.50	1040					
7s										
8s		7.								
9s										
a'	7.8 7.7	7.7	7.75 01	2.50	1025					
a²	8.7.	8.7		2.44	1114					
b	7.	8.3		2.45	1075					
c		8.8	8.9 8.85 01	2.43	1128					
d		8.7	8.7 8.70 00	2.44	1114					
e		8.9	8.9 8.90 00	2.44	1134					
f		9.3	9.3 9.30 00	2.46	1176					
g		9.7	9.6 9.65 10	2.52	1217					

4m from. 3m from. Wrong unit. 3m hazy 2m hazy Too near 5s

For reduction see Page 133.

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Thursday, January 14, 1915

objects

Inc Series 310 Yellow

Scale W Inc 6154 D 12 Alt +.10 Pc:

Magn		Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
637	Sm. poor	1		.	.	7.	8.9	- 1.27	7.63
740		2	B	.	.	7.5 7.6	7.7	7.60 1 1 - 1.39	6.27
803	Sm. poor	3		.	.	8.4	8.6	8.50 1 1 - 1.32	7.18
874		4	4.8 49. B. ~~3.43~~		3.43	8.33	9.4 9.3?	9.35 0 1 - 1.20	8.15
886?	Sm. poor	5	B.	.	.	Sm. foggy	8.6 8.6	8.60 0 0 - 1.31	7.29
		6	3.8 39. B. 2		3.90	7.80	9.3	- 1.21	8.09
		7	4.7 45.	B.	3.59	8.09	9.8	- 1.12	8.68
	Sm. poor	8	5.3? 54.	B.	3.20	8.60	9.7	- 1.14	8.56
		9	5.4 55.	5.2	5.35 1 2	3.22	8.57	9.9	- 1.10	8.80
		10	5.3 54.	5.6	5.50 1 1	3.16	8.66			
		11	6.0 61.	6.3	6.20 1 1	2.90	9.10			
		12	6.1 67.	6.2	6.20 0 0	2.90	9.10			
		13	5.3 54.	5.1	5.25 2 1	3.28	8.53			
	(Wrong star)	14	7.1 42.	*7.7 1	7.15 0 1	2.60	9.75			
		15	6.7 68.	6.8	6.80 0 0	2.68	9.48			
		16		6.9		2.65	9.55			
		16a		7.7		2.50	10.20			
		17		7.9		2.49	10.39			
		18		7.7		2.50	10.20			
		19		8.3		2.44 5	10.75			
		20		8.3		2.45	10.75			
		21	7.8 79.	7.8	7.85 1 0	2.50	10.35			
		22		8.7		2.44	11.14			
		23		8.7 8.7 9	8.70 0 0	2.44	11.14			
		24		9.4	9.30 1 1	2.46	11.76			
		25		8.9 8.8	8.85 1 0	2.43	11.28			
		26		8.8 8.8	8.80 0 0	2.43	11.23			

Star mags ← 9.8? 9.7? 1.75 0 1 + 2.63 = 4.13 12.30 - 8.62

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Thursday January 14, 1915

mc Series 310 objects yellows

Scale W mc 6155 C12 Alt. +07

	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.2	
1	B.			8.0 (8.1)	8.3	8.20 11 −1.34 6.86
2				7.8 (7.9)	7.9	7.90 00 −.137 6.53
3	2.2 (2.3)	R.	4.75 7.05	7	8.7	8.7 8.70 00 −.129 7.41
4	B		4.58	7.8 (7.9)	7.9	7.90 00 −.137 6.53
5	8.5 (2.6)		7.18	7	8.6	8.3 8.4521 −.132 7.13
6	4.4 (4.5)	B.	3.60 8.10		9.3	−.122 8.08
7	Dm. poor.				9.3	−.122 8.08
8	Dm. poor. No. Remeas July 5, 1917.			Dm. hazy.	9.3?	−.122 8.08?
9	5.4 (5.5)	5.4	5.45 10 3.20 8.65		7.	
10	4.4 (4.5)	B.	2.60 8.10		9.1	−.124 7.86
11	6.0 (6.1)	6.0	6.05 10 2.95 9.00		7.	
12	4.9 (5.0)	5.0	5.00 00 3.41 (38) 8.41 (38)		9.6	−.115 8.45
13	6.1 (6.8)	6.8 6.7	6.77 001 2.64 (70) 9.41 (47)		7.	
14		6.1	2.93 9.03		7.	
15	6.1 (6.7)	5.6 6.0	5.93 331 3.00 8.93			
16		6.2	2.89 9.09			
17		6.7	2.72 9.42			
18	7a	6.9	2.66 9.56			
		8.4	2.44 10.84			
19	7a	8.7	2.44 11.14			
20		8.7 8.8	8.75 10 2.44 11.19			
21		8.9 9.0	8.95 10 2.44 11.39			
21a		9.2 9.3	9.25 01 2.45 11.70			
22		9.9 9.8	9.85 10 2.52 (9) 12.37 (44)			
23		9.7 9.7	9.70 00 2.49 (54) 12.19 (24)			
24		7. 7.				
25		7. 7.				
26						

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Thursday, January 14, 1915

mc Series 310 Yellow

Peace W mc 6156 R Androm. Ref Seg. P.E.

alt. +.12

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	B.	B.		.	.	7.	8.3	8.2	8.25	10-1.33 6.92
2	5.6 57	5.5	5.60	1	1		10.0?	10.0	10.00	00-1.08 8.92?
3	4.7 45	B.		3.58	8.08		9.1	9.2	9.15	1 0-1.24 7.91
4	6.3 64	6.3	6.35	0	1		7.	7.	.	. .
5	5.8 59	5.7	5.80	1	1		10.0?	10.0	10.00	00-1.08 8.92?
6	6.7 68	6.7	6.75	0	1		7.		.	. .
7	7.0 71	7.1	7.10	00						
8		7.9		2.50	10.70					
9		8.2		2.46	10.66					
10		8.4		2.44	10.84					
11		8.5		2.44	10.94					
12		8.3	8.3	8.30	00		2.45	10.75		
13		8.9	8.9	8.90	00		2.43	11.33		
14	Hazy	9.3	9.4?	9.35	1 0		2.46	11.81		
15		9.1	9.2	9.15	1 0		2.44	11.59		
16		9.9	9.9	9.90	00		2.54 .62	12.44 .52		
17		7.	7.	.			.	.		
18										
19										
20										

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Thursday, January 14, 1915

copies: Yellow

mc Series 310

Scale W mc 6156 R Androm Var. Sag. Alt. + 12 P. C.

		Sc. 1	Sc. 2	Curve	Magn	Sc. 1	Sc. 2		
a	B.					6.8 (6.9)	6.9	6.90 0.0	Curve Magn
* c	B.					7.9 (8.0)	7.9	7.95 0.1	−1.36 6.59
See no 1 of Ref. Segs. e									
d	B.					7.9 (8.0)	8.1	8.05 0.1	−1.36 6.69
f	2.9 (3.0)	B.		4.33	7.33	7.	8.7 8.7	8.70 0.0	−1.30 7.40
g	3.7 (3.8)	B.		3.94	7.74		8.9 8.9	8.90 0.0	−1.37 7.53
R		B.					9.7		−1.14 8.56
h	4.1 (4.2)	B.	6.20 1.1	3.47	8.27		9.8		−1.13 8.67
l	6.2 (6.3)	6.1		2.89	9.09		?		
n	6.6 (6.7)	6.5	6.60 1.1	2.74	9.34		?		
m	6.3 (6.4)	6.4	6.40 0.0	2.81	9.21				
p		6.9		2.65	9.55				
o		6.7		2.71	9.41				
s		7.9		2.50	10.40				
r		7.7		2.50	10.20				
q		7.1	7.1 (7.0 0.0)	2.61	9.71				
q'	q'	8.5	8.7 (8.5 0.1)	2.44	11.09				
t	t	7.9	7.9 (7.9 0.0)	2.50	10.40				
u		8.9	8.9 (8.9 0.0)	2.44	11.34				
w		9.0	9.2 (9.1 0.1)	2.44	11.54				
x		9.6	9.3 (9.4 0.1)	2.48	11.93				
Z		9.9	9.6 (9.5 0.1)	2.57 (5)	12.26 (30)				
y		9.9	9.8? (9.8 5.0)	2.58 (9)	12.37 (44)				
y,		?							
y									
d									
B									
Ya		9.3	9.3	3.41	12.71				

Sm. poor.

Sm. foggy.

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Thursday. January 14. 1915

copied.

Inc Series 310 Yellow

Scale W Inc 6157 D, alt. −.10

	Sc.1	Sc.2			Curve. Magn	Sc.1	Sc.2		Curve Magn
1						7.	8.4	8.7	8.55 2.1 − 1.32 7.23
2							8.7	8.7	8.70 0.0 − 1.30 7.40
3							8.3	8.4	8.35 1.0 − 1.33 7.02
4							8.7	8.7	8.70 0.0 − 1.30 7.40
5	2.8	2.9			4.40 7.30		8.4	8.6	8.50 1.1 − 1.32 7.18
6	2.5	2.5			4.57 7.17		8.3		− 1.33 6.97
7					. Too faint.				
8	5.3	5.4			3.20 8.60		9.7		− 1.14 8.56
9	4.6	4.7	B.		3.51 8.21		9.4		− 1.20 8.20
10	4.6	4.7	B		3.51 8.21		9.2	9.1	9.15 0.1 − 1.24 7.91
11	6.1	6.3	5.6	6.2	6.02 1.2 4.2	2.96 8.98			
12	6.6	6.7	6.6		6.65 1 0	2.73 9.38			
13	6.1	6.2	6.3		6.25 0 1	2.88 9.13			
14	6.6	6.7	6.6		6.65 1 0	2.73 9.38			
15			6.2			2.89 9.09			
16			7.2			2.59 9.79			
16a			6.8			2.69 9.49			
17			7.5			2.54 10.04			
18			7.9	7.9	7.90 0 0	2.50 10.40			
19			7.9			2.50 10.40			
20			8.1			2.47 10.57			
21			7.7			2.50 10.20			
22			8.1	8.2	8.15 1 0	2.46 10.61	29		
23			8.7			2.43 11.13	30		
24			8.7			2.43 11.13	31		
25			9.1	9.0	9.05 1 0	2.43 11.48	32		
26			9.1	9.3	9.50 2.2	2.49 11.99			
27			9.5	9.3	9.40 1 1	2.48 11.88			

Star Images

9.7	9.8	9.75 1.0 + ~~1.3~~ 2.54	30	12.86	~~8.67~~
9.9	10.0	9.95 1.0 + ~~1.09~~ 2.56	6.5?	12.54	6.0?

Sm. hazy.

Sm. hazy.

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1914phae.proj.1042M

Thursday, January 14, 1915

mc Series 310. Yellows

		Scale W	mc 6158 Sc.1	mc 6158 Sc.2	Pole	P.C. Sc.1	P.C. Sc.2	
	5	R.				7.8 7.9	7.9	7.90 00
	6	R.				7 8.3	8.3	8.30 00
9m from	7						8.7	8.70 00
	8	4.3 4.4	B.				9.1	9.20 11
	9	5.4 5.5		5.2	5.40 11		9.9	9.90 00
	10	5.9 6.0		5.7	5.85 21			
	11	6.7 6.8		6.9	6.85 01			
	12	6.8 6.9		6.9	6.90 00			
	13	7.6 7.7		7.6	7.65 10			
	14	7.7 7.8		7.7	7.75 01			
	15			7.9				
	16			8.3				
	17			9.2				
	18			9.2				
	19			9.2	9.4 9.35 10			
	20			9.8	9.8 9.80 00			
	21			9.8	9.8 9.80 00			
	22			9.7	9.8 9.75 10			
	23			9.7	9.8 9.75 10			
	24							
+87°	12	4.5 4.1	B.				9.0	8.95 01
88.	2	4.3 4.4	B.				9.2	9.20 00
	90	5.1 5.2		5.9	5.55 43		9.9	7
	105	4.7 4.8	B.				9.5	9.45 10
+87°	15	4.6 4.1	B.				9.2	9.15 01
9m from 88°	80						9.8?	9.75 01
" "	86						7.	7.
	115	6.1 6.2	B.		6.15 01		7	7

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Thursday, January 14, 1915

MC Series 310 Yellow

Scale W MC 6158 Pole (cont)

	Sc.1	Sc.2	MC 6153 Mean Curve — p126					Sc.1	Sc.2	MC 6153 Curve	Mean			
2r	B	B						7.7	7.8	7.80	00	7.75	7.78	-.138 6.87
3r	.	.						7	8.7 8.7	8.70	00	8.70	8.70	-.130 7.40
4r	4.6	E,		4.7	4.70	00	3.52	8.22	8.9 9.1	9.00	1.1	9.25	9.18	-.125 7.87
5r	5.3	5.1	5.25	2.1	5.30	5.28	.03 .02	3.26 8.54	9.7 9.7	9.70	00	9.85	9.78	-.111 8.67
6r	6.1	6.1	6.15	0.1	6.35	6.25	.10 .10	2.88 9.13	7 7	.		9.95	9.95	-.109 8.86
7r	6.8	6.9	6.90	0.0	6.95	6.92	.02 .03	2.65 9.57	7.	.	.	.	.	.
8r	7.3	7.7	7.55	2.1	7.65	7.60	.05 .05	2.52 10.12						
9r	7.9	8.0	8.00	0.0	7.90	7.95	.05 .05	2.48 10.43						
10r		9.3 9.4	9.35	1.0	9.25	9.30	.05 .05	2.46 11.76						
11r		9.1 9.3	9.20	1.1	9.10	9.15	.05 .05	2.44 11.59						
12r		9.6 9.5	9.55	0.1	9.75	9.65	.10 .10	2.52 12.17?						
4s	6.9	6.9	6.95	0.1	6.95	6.95	.00 .00	2.64 9.59						
5s	6.8	6.9	6.90	0.0	7.15	7.02	.12 .13	2.62 9.64						
6s	7.9	7.9	7.95	0.1	7.90	7.92	.03 .02	2.50 10.42						
7s	.	.												
8s		7.												
9s														
a'	7.4	7.4	7.45	1.0	7.75	7.60	.15 .15	2.52 10.12						
a^2	7	8.7			8.7	8.70	0 0	2.44 11.14						
b	7	8.3			8.3	8.30	0 0	2.45 10.75						
c		8.9 8.9	8.90	0.0	8.85	8.88	.02 .03	2.43 11.31						
d		8.6 8.4	8.50	1.1	8.70	8.60	.10 .10	2.43 11.03						
e		8.9 8.9	8.90	0.0	8.90	8.90	.00 .00	2.44 11.34						
f		9.1 9.0	9.05	1.0	9.30	9.18	.13 .12	2.45 11.63						
g		9.4 9.4	9.40	0.0	9.65	9.52	.12 .13	2.49 12.01						
h		7.												

Too near 5s

3.57

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Saturday, January 16, 1915

10.15

Mc Series 310 (part 2) Yellow

Scale W Mc. 6158 Pole P.C.

	Sc.1		Sc.2	Mc 6164 p.143	Sc.1		Sc.2	Mc 6164 p.143
5	B				7.9		8.0	8.00 00 7.85 -1.42
6	B.			2.4	4.58		8.4	8.3 8.35 01 8.40 -1.42
7							8.7	8.7 8.70 00 8.80 -1.34
8	4.3	B.		4.4 4.40 0 0 3.63			9.3	9.3 9.30 00 9.00 -0.97
9	5.3	5.2		5.30 11 5.75 5.62 22 23 3.22			9.9	9.9 9.90 00 9.90 -1.16
10	5.8	5.6		5.75 12 6.15 5.95 20 20 2.93				
11	6.7	6.7		6.75 01 6.95 6.85 10 10 2.51				
12	6.8	6.8		6.85 10 7.15 7.00 15 15 2.58				
13		7.4		7.75 7.58 18 17 2.50				
14		7.7		7.90 7.80 10 10 2.44				
15		8.1		8.3 8.20 1 1 2.44				
16		8.4		8.7 8.55 2 1 2.39				
17	Wrong star.	8.6		8.75 8.68 08 07 2.36				
18		9.2	9.2	9.20 00 9.25 9.22 02 03 2.34				
19		9.7	9.4	9.55 12 9.75 9.65 10 10 2.29				
20		9.8	9.8	9.80 00 10.00 9.90 10 10 2.29				
21		9.8	9.8	9.80 00 9.90 9.85 05 05 2.42				
22		10.0	9.9	9.95 01 F 9.95 00 .254				
23		9.8	9.8	9.80 00 F 9.80 00 .296				
24		7.	7.	. . .				
+87°	121	3.9	R.	4.00 3.90			8.9	8.9 8.90 00 8.80
+88°	2	4.5	B.	460 480			9.3	9.3 9.30 00 9.40
	90	5.9	5.8	590 11 6.35				Im the fog. 9.7 * Wrong image
	105	4.3	B.	480 490			9.6	9.6 9.60 00 9.85
Morfon. E. +87°	15		B.	4.00			9.2	9.1 9.15 01 9.05
" " +88°	80			640			7.	7. . .
" " "	86			620			7.	7. . .
	165	5.9	6.2	610 11			7.	7.

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Saturday, January 16, 1915

Mc Series 310, (part 2) Yellow

Scale W Mc 6158 Pole (cont)

	Sc.1	Sc.2	Mc 6164 p.144	Curve	Magn	Sc.1	Sc.2			Curve	Magn
2r	B.					7.7	7.8	7.80	00	7.90	7.85 05 05
3r			3.8	3.80	.a	3.96	7.76	6.8?	8.7	8.75	01 8.85 8.80 05 05
4r	4.7 (4.9)	B.	4.7	4.75	01	3.50	8.25	9.1	9.0	9.05	10 9.65 9.33 30 30
5r	5.7 (5.8)	5.3	5.55	2 3	5.60	5.58	03 02	3.13	8.71 Smi. hazy.	9.7?	9.7 9.70 00 . 9.70 a.
6r	5.9 (6.0)	6.1	6.05	01	6.45	6.25	20 20	2.86	9.11	?	? . . .
7r	6.8 (6.9)	6.9 6.9	6.90	000	7.05	6.98	08 07	2.60	9.58	2r	Curve Magn -1.49 6.36
8r	7.5 (7.6)	7.6	7.60	00	7.85	7.72	12 13	2.45	10.17	3r	-1.32 7.48
9r	8.0 (8.1)	8.1	8.10	00	8.30	8.20	10 10	2.39	10.59	4r	-1.18 8.17
10r		9.5 9.3	9.35	12	9.60	9.48	13 12	2.41	11.89	5r	-1.10 8.60
11r		9.1 9.2	9.15	10	9.60	9.38	23 22	2.39	12.07	6r	? .
12r		9.7 9.6	9.65	10	.	9.65	a.	2.44	12.09		
4s	6.9 (7.0)	6.8	6.90	11	7.25	7.08	18 17	2.57	9.65	?	
5s	6.8 (6.9)	7.0	6.95	10	7.20	7.08	13 12	2.57	9.65		
6s	7.8 (7.9)	7.9	7.90	00	8.10	8.00	10 10	2.42	10.42		
7s	Too near 5s										
8s		7.									
9s											
a'	7.4 (7.5)	7.4	7.45	10	7.70	7.58	13 12	2.47	10.05		
a^2	7.	8.8 8.7	8.75	01	8.95	8.85	10 10	2.36	11.21		
f	7.	8.3			8.65	8.65	. a	2.37	11.02		
e		8.9 8.9	8.90	00	8.90	8.90	00 00	2.36	11.26		
d		8.6 8.7	8.65	01	8.90	8.78	13 12	2.36	11.14		
c		8.7 8.8	8.75	10	9.10	8.92	17 18	2.36	11.28		
f		8.9 9.2	9.05	12	9.70	9.38	33 32	2.39	11.77		
g		9.6 9.6	9.60	00	9.70	9.65	05 05	2.44	12.09		
e		7. 7.	.		.	.					

Age

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Me Series 310 (part 2) Yellow

Scale W Me 6159 Di Alt. -.11 P C

	Sc.1	Sc.2		Curve. Magn	Sc.1	Sc.2			
1	B.					9.1	9.2	9.15 10 -.123	7.92
2	2.9 30.			4.30	7.30	8.8	8.8	8.80 00 -.132	7.48
3	3.3 34.			4.13	7.53	8.7	8.7	8.70 00 -.134	7.36
Poor. 4	3.6? 37.			4.02	7.72	8.9	8.9	8.90 00 -.130	7.60
5	2.8 29.			4.33	7.23	8.8	8.8	8.80 00 -.132	7.48
6	2.9 30.	B.		4.30	7.30	8.8		-.132	7.48
Poor. 7	5.6? 57.	5.3	5.50 2.2	3.17	8.67	Poor 2. 9.7?		-.110	8.60?
8	5.2 53.	5.2	5.25 10	3.29	8.54	9.7		-.110	8.60
9	4.8 49.	B.		3.45	8.35	9.6		-.113	8.47
10	4.7 48.	B.		3.49	8.29	9.7		-.110	8.60
11	6.3 64.	6.2	6.30 1.1	2.53	9.13	7.		F.	
12	6.8 69.	6.6	6.75 1.2	2.67	9.42	7.		F.	
13	6.2 63.	6.3	6.30 00	2.83	9.13				
*(wrong unit) 14	6.7 68.	6.7	6.75 01	2.67	9.42				
15	6.7 68.	6.4 6.5	6.57 2.2 1	2.72	9.29	Remeas. by O.			
16	7.3 74.	7.2	7.30 1.1	2.51	9.81	1. 9.1			
16a	6.8 69.	6.9	6.90 00	2.62	9.52	2 8.7			
17	7.6 77.	7.6	7.65 10	2.47	10.12	3 8.7			
18		8.2		2.39	10.59	No error in orig. measd.			
19		8.3		2.39	10.69	P. C. Im. of star poor.			
20		8.3		2.39	10.69	Star Images			
21		7.8		2.44	10.24				
22		8.4		2.38	10.78	28	9.8	9.7 9.75 01 2.49 1	12.24 2
23		8.7		2.36	11.06	29	9.7	9.8 9.75 10 2.49 1	12.24 2
Wrong star. 24		8.8 8.7 8.9	8.85 01	2.86	11.21	30	9.9	9.8 9.85 10 2.48	12.33
25		9.3 9.4	9.35 1.0	2.39	11.74	31.	7.	7. ,	, ,
26		9.6 9.4	9.50 1.1	2.41	11.91				
Im. hazy 27		9.7		2.3	11.8?				

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Saturday, January 16, 1915

Mc Series 310 (part 2) Yellows

Scale W Mc 6160 S Cassiop Ref. Seq P.C.

alt. +.09

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2				
1	B.	B.				7.	8.3	8.4	8.35	1.0 -1.40	6.95
2	5.7 (5.8)	5.8	5.80	0	0	3.03	8.83	7.	7.	,	,
3	6.7 (6.8)	6.8	6.80	0	0	2.65	9.45	7.	.	,	,
4	5.8 (5.9)	5.7	5.80	1	1	3.03	8.83	10.0?	10.0?	a	-.03 8.97
5	7.3 (7.4)	7.4	7.40	0	0	2.49	9.89	7.	.		
6		7.5				2.48	9.98				
7		8.1				2.41	10.51				
8		8.3				2.39	10.69				
9		8.9	8.9	8.90	0	0	2.36	11.26			
10		8.3	8.6	8.45	1	2	2.38	10.83			
11		8.7	8.7	8.70	0	0	2.36	11.06			
12	Sm. hazy.	9.7?	9.7	9.70	0	0	2.45	12.15			
13	Sm. hazy.	.	.				,	,			
14		7.99		9.90	1	a	2.49	12.39			
15											
16											
17											
18											
19											
20											

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Saturday, January 16, 1915

on sheets

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Mc Series 310 (part 2) Yellow

Scale W	*mc 6160				3 Cassiop. Var. Seq.				pe			
	Sc.1	Sc.2	Curve	Magn		Sc.1	Sc.2	Curve	Magn			
off plate. a	.	.				.	.					
f	B.					nearly surf.						
c	2.2 (2.3)	B,		4.60	6.90			8.3	8.3	8.30	00	-1.41 6.89
too poor, too far from center d	.	.				, E.		9.2	9.	9.10	11	-1.25 7.85
e	4.7 (4.8)			3.49	8.29			9.3	9.2	9.30	00	-1.20 8.10
f	4. (4.8)			3.49	8.29			9.2	9.3	9.25	01	-1.21 8.04
g	5.6 (5.7)			3.10	8.30	Hazy		9.7	9.8	9.75	10	-1.08 8.67
h	.	.						7.		,	,	,
h'	6.6 (6.7)	6.7		6.70	00 2.68 9.38			7.		,	,	,
k	7.4 (7.5)	7.4		7.45	10 2.49 9.94							
l	7.7 (7.8)	7.7		7.75	01 2.44 10.19							
m	7.5 (7.6)	7.6		7.60	00 2.47 10.07							
n		8.3			2.39 10.69							
o		8.4	8.6	8.50	11 2.38 10.88							
o'		7.8	7.7	7.75	01 2.44 10.19							
p		8.8	8.8	8.80	00 2.36 11.16							
q		9.2	9.2	9.25	10 2.38 11.63							
r		9.7	9.5	9.60	11 2.43 12.03							
(wrong star) s		*9.7 (7)		.	, , ,							
Dm. in pos. of s' def? s'		m.s.?		.	, , ,							
Poor. t		9.9?	10.0?	9.95	?10 2.51 12.46							
u		7.	7.	.	, , ,							
w												
x												
y												

* Film shows peculiar light spots all through [illegible]

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Saturday, January 16, 1915.

mc Series 310 (part 2) Yellow

Scale W mc 6161 U Persei Ref. Seq. P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2			
	5.7								-1.08	8.77
1	5.6	5.6	5.65	10	3.13	8.78	7.	9.9	9.8	9.85 10 2.77 ~~7.32~~
2	6.7 6.8	6.7	6.75	01	2.67	9.42	7.			
3	6.8 6.9	7.1	7.00	11	2.59	9.59	7.			
4	7.0 7.1	7.2	7.15	10	2.55	9.70				
5	7.4 7.5	7.6	7.55	10	2.47	10.02				
6	7.3 7.4	7.5	7.45	01	2.49	9.94				
7	7.7 7.8	7.7	7.75	01	2.44	10.19				
8	7.9 8.0	7.9	7.95	01	2.43	10.38				
9		8.7	8.7	8.70	00	2.36	11.06			
10		9.6	9.3	9.45	21	2.40	11.85			
11		.		.		.				
12		9.8	9.6	9.70	11	2.47	12.17			
13		7.		.		.				
14										
15										
16										
17										
18										
19										
20										

Alt. + .12

Wrong unit.

Sm. too Lazy.

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Saturday, January 16, 1915

Opies

Inc Series 310 (part 2) Yellow

Scale W Inc 6161 υ Persei Var. Seq. Pc.

	Sc.1	Sc.2	Curve				Sc.1	Sc.2
a	5.2 53.	5.0	5.15	12	3.32	8.47	7.	7.
b	.	.	.	.	.	.		7.
c	7.3 74.	7.3	7.35	01	2.50	9.85		7.
d	7.8 79. 67.	7.9	7.90	00	2.44	10.34		
e	6.6	6.7	6.70	00	2.69	9.39		
f	7.7 78.	7.8	7.80	00	2.44	10.24		
g		8.8	8.80	00	2.36	12.16		
g^2		8.9	8.90	00	2.36	11.26		
g^3		9.3	9.30	00	2.38	11.68		
h		9.8	9.80	00	2.48	12.28		
h^2		9.7	9.60	11	2.43	11.93 (120)		
k		10.0?	9.9?	9.95	01	2.51	12.46?	
l		7.	9.9?	9.92	02	2.49	12.19?	
m		7.1	7.	.	.	.		
m^2		7.9		.	.	.		
o								
p								
q								
r								
s								
t								
u								

9m. long. Double?

9m. hazy.

(Wrong star)

Var. m.s.?

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Saturday, January 16, 1915

Mc Series 3:10 (part 2) copied. Yellow

Scale W Mc 6162 Cluster Perseus Var. Seq PE.

alt. +.12

	Sc 1	Sc 2		Curve	Magn	Sc 1	Sc 2		Curve	Magn
1	B.					7.80. 7.9	7.9		7.95 01 -147	6.48
2	2.5 2.6.			4.47	7.07	4.	8.4	8.3	8.35 01 -140	6.95
3	4.7 4.8.			3.49	8.29		9.4	9.7 9.3	9.47 12 2 -1.15	8.32
4	4.9 5.0.			3.40	8.40			9.7 9.7	9.70 00 -1.10	8.60
5	5.9 6.0.			2.95	8.95			4 4	, ,	,
6	6.7 6.8.	B.		2.64	9.44			4	, ,	,
7	7.2 7.3.	7.2	7.25 10	2.52	9.77					
8	7.5 7.6.	7.8	7.70 11	2.46	10.16					
9	4.	8.3		2.39	10.69					
10		8.7	8.6 8.65 10	2.36	11.01					
11		8.7	8.6 8.65 10	2.36	11.01					
12		8.7	8.8 8.75 10	2.36	11.11					
13		9.3	9.4 9.35 10	2.39	11.74					
14	Def. mean	~~8.8~~ 8.5	9.9 9.9 ±	2.47	12.37 9 9					
15		4.	4. ,	.	.					
16		9.9?		2.49	12.39?					
17		9.9?		2.49	12.39?					
18										
19										
20										
21										
22										
23										

* See note [illegible] (4.96)

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Saturday, January 16, 1915

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MC Series 310 (part 2) Yellow

Scale W MC 6163 D = alt. −.11

	Sc.1	Sc.2	Cwwc	Magn	Sc.1	Sc.2		
1	2.1 (2.2)		?	4.66	6.86	7.9 (8.0)	8.0	8.00 00 −.146 6.54
2	3.7 (3.8)			3.95	7.75	7	8.7 8.8	8.75 .10 −.133 7.42
3						7.2 (7.6)	7.7	7.65 01 −.151 6.14
4	4.3 (4.4)			3.67	8.07	Too faint		
5							8.3 8.4	8.35 .10 −.140 6.95
6	3.9 (4.0)			3.86	7.86		8.7 8.8	8.75 .10 −.134 7.41
7	4.6 (4.7)			3.53	8.23	Close to star	9.4	−.118 8.22
8	3.6 (3.7)		B.	4.00	7.70		8.9	−.129 7.61
9	4.8 (4.9)		5.10	4.95	.10 3.99 (4.1) 8.36		9.7	−.110 8.60
10						Too faint		
11	6.2 (6.3)		6.3	6.30	00 2.82 9.12		7	
12	6.1 (6.2)		6.3	6.25	01 2.56 9.11			
13	6.9 (7.0)		6.7	6.85	.21 2.63 9.48			
14	6.9 (7.0)		7.1	7.05	01 2.58 9.63			
15			7.7		2.46 10.16			
16			7.1		2.57 9.67			
17			7.7		2.46 10.16			
18 (Mar 7)			8.7		2.36 11.06			
			8.6		2.36 10.96			
19			8.7	8.6	8.65 10 2.36 11.01			
20			8.8	8.7	8.75 01 2.36 11.11 ?			
21			8.8	9.3	9.05 .23 2.36 11.41			
22			9.6 ?	9.6 ?	9.60 00 2.43 12.03 ?			
23			9.8 ?	9.7 ?	9.75 01 2.47 12.22 ?			
24			9.8 ?	9.7 ?	9.75 01 2.47 12.22 ?			
25			9.8 ?	9.8 ?	9.80 00 2.47 12.27 ?			
26			7.	7.				
27			7.	7.				

Hazy

Very hazy.

" "

" "

" "

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Mc Series 310 (part 2) Yellow

Scale W Mc 6164 Pole Pc.

		Sc.1	Sc.2		Sc.1	Sc.2	
	5	B.			7.7? 7.8.	7.9?	7.85 01
	6	2.3 24.			7.	8.3 8.5	8.40 11
Too faint Σ.	7	.				8.8 8.8	8.80 00
	8	4.3 4.4	B			9.0 9.0	9.00 00
	9	5.7 5.8.	5.7	5.75 01		10.0? 9.8	9.90 11
	10	6.1 6.2.	6.1	6.15 01		7	.
	11	6.9 7.0.	6.9	6.95 01			
(Wrong unit)	12	7.1 7.2	7.1	7.15 01			
	13	7.6 7.7.	7.8	7.75 10			
	14	7.8 7.9.	7.9	7.90 00			
	15	7.	8.3				
	16		8.7				
	17		8.7	8.8 8.75 10			
	18		9.3	9.2 9.25 10			
	19		9.8	9.7 9.75 01			
	20		10.0	10.0 10.00 00			
	21		9.9	9.9 9.900			
	22		7.	7.			
	23		7.				
	24						
S. +87°	12	3.8 3.9.	B.	3.90 a.		8.8 8.8	8.80 00
+88°	2	4.7 4.8.	B.	4.80 a.		9.4 9.4	9.40 00
	9	6.3 6.4.	6.3	6.35 01		7. 7.	F .
	10	4.8 4.9.	B.	4.90 a.		9.9 9.8	9.85 10
S. +87°	15	3.9 4.0.	B.	4.02 a.		9.1 9.0	9.05 10
S. +88°	80	6.3 6.4.	6.4	6.40 00		7. 7.	.
S.	86	6.1 6.2.	6.2	6.20 00		7. 7.	.
	15	6.3 6.4.				7. 7.	.

Sheet 134

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Saturday, January 16, 1915

Mc Series 310 (part 2) Yellows

Scale W	Mc 6164	Pole (cont)			Pc.			S
	Sc 1	Sc 2			Sc 1	Sc 2		
2r	B.	B.			7.8 7.9	7.9	7.90 00	
3r	3.7 3.8	B.			7.	8.8	8.9 8.85 01	
4r	4.6 4.7	B.				9.6	9.7 9.65 01	
5r	5.5 5.6	5.6	5.60 00			7.	7. .	
6r	6.3 6.4	6.5	6.45 01			7.	.	
7r	6.9 7.0	7.1	7.05 01					
8r		7.9	7.8	7.85 10				
9r		8.4	8.2	8.30 11				
10r		9.7	9.5	9.60 11				
11r		9.5	9.7	9.60 11				
9m. hazy 12r	.	.		.				
1								
4S	7.2 7.3	7.25		7.25 10				
5S	7.1 7.2	7.25		7.20 00				
6S	8.0 8.1	8.1		8.10 00				
Too near S8 7S	.	.		.				
8S		7.		.				
9S								
a'	7.7 7.8	7.6		7.70 11				
a²	8.9 9.0	8.9		8.95 01				
b		8.7	8.6	8.65 10				
c		8.9	8.9	8.90 00				
d		8.9	8.9	8.90 00				
e		9.2	9.0	9.10 11				
f		9.7	9.7	9.7000				
9m. fuz. (25m out) 3.80 g		9.7	9.7	9.7000				
h		7.		.				

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Saturday, January 23, 1915

9.37 mc Series 394

Scale R mc 7139 Pole

	Sc.1	Sc.2	mc 7144 mean fr 153	Diff	g Sc. t.p.	h Sc. t.p.	mc 7144 mean fr 153	Diff	P.C. Sc.2	
5	.								8.3	10.1
6	.				8.8?	8.7?	8.75 01 . 8.75?	-.164	9.2	10.8
8	.				10.1?	.	10.10 2 . 10.19?	-.187	10.7	10.2
9	.				10.9?	10.8?	10.88 10 . 10.85?	-.202	11.2	12.9
10	5.7 60.		6.4 6.20	2.82	11.2?	t.p.	11.29 2 . 11.20?	-.218	11.8	12.7
11	6.6 69.		7.2 7.05	2.50	12.1	12.2	12.15 10 11.80 11.98	-.243	12.1	13.9
12	6.9 72.		8.0 7.60	2.26	12.3	t.p.	12.30 2 . 12.2 12.25	-.239	12.6	13.9
13	7.9 82.	B.	8.60 8.40	1.90	12.8	12.9	12.85 01 12.7 12.78	-.248	13.0	f
14	8.3 86.	87	8.65 01 9.10 8.88	1.77	13.2	12.8	13.00 2 2 12.9 12.95	-.230	13.5	
15	8.9 92.	89	9.05 2 1 9.9 9.48	1.60	13.3	13.7	13.2	13.38 1 3 2 1 13.45 13.42	-.234	13.6
16	7.	9.6	9.9 9.75	1.65	13.7	13.7	13.70 00 13.70 13.70	-.230	14.0	
17		9.9	10.3 10.10	1.53	14.0	13.9	13.95 01 13.75 13.85	-.222	7.	
18		10.6	10.8 10.70	1.36	14.0	14.0	14.00 00 13.95 13.98	-.192		
19		11.0	11.2 11.10	1.32	7.					
20		11.3	11.4 11.35	1.38						
23		11.9 12.0	11.95 10 12.00 11.98	1.36						
25		12.6 12.6	12.60 00 12.35 12.48	1.39						
26		12.9-13.0	12.95 10 12.90 12.92	1.41						
27		13.2 13.1	13.15 01 13.15 13.15	1.54						
28		13.6 13.6	13.60 00 13.70 13.65	1.46						
29		7. 7.	F 14.00 14.00	1.66						
30										
31										
32										
33										

* Do not use P.C. for this half series.

P.C. slightly changed for entire 1st half of series

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Inc Series 394 (1st half)

Card.

Scale R Inc 7140 C 2s g h alt. +.17 P.C. S.

	Sc.1	Sc.2	Curve	Magn	Sc.2	Sc.2	Curve	Magn	Sc.2
1	1.5				8.3	8.0	8.15 1 2		9.1
2	2.3				8.6	8.1	8.35 2 3		9.3
3	3.7				8.7	8.8	8.75 1 0		9.8
4	4.3				9.9	9.9	9.90 0 0		10.4
5	4.3				9.4	t.p.	9.40 2 ,		10.3
6	5.3				10.3	10.0	10.15 1 2		10.8
7	5.6				10.8	10.7	10.75 0 1		11.3
8	5.8		2.85	8.95	10.9	10.8	10.85 1 0		11.4
9	5.7		2.88	8.88	10.9	11.0	10.95 1 0		11.8
10	6.0		2.78	9.08	11.3	11.3	11.30 0 0		11.8
11	6.6		2.55	9.45	11.8	11.7	11.75 0 1	-2.32	9.43	12.4
12	6.9		2.42	9.62	12.3	12.1	12.20 1 1	-2.38	9.82	12.8
12a	7.7	B.	2.07	10.07	12.7	12.7	12.70 0 0	-2.37	10.33	13.2
13	7.6	B.	2.13	10.03	12.9	12.7	12.80 1 1	-2.36	10.44	13.2
14	7.9	8.6	8.40 2 2	1.92	10.32	13.2	13.0	13.15 1 2	-2.32	10.83	13.3
15	8.7	9.1	9.05 0 1	1.72	10.77	13.4	13.7	13.55 2 1	-2.25	11.30	13.9
16	8.7	8.9	8.95 0 1	1.74	10.69	13.6	13.3	13.45 2 1	-2.28	11.17	14.0
17		9.4		1.63	11.03	13.7	13.9	13.80 1 1	-2.18	11.62	14.0
18		9.7		1.56	11.26	13.8	13.9	13.85 0 1	-2.17	11.68	14.0
19		9.9		1.52	11.42	13.9	7.	13.90 2 ,	-2.16	11.74	7.
20		10.3		1.46	11.76	14.0	14.0	14.00 0 0	-2.12	11.88	11
21		10.7		1.40	12.10	Faint star images					
22		10.8		1.39	12.19	28		13.0			14.3 Curve	14.43 Magn
23		11.2		1.36	12.56	29		13.3	13.2	13.25 1 0	1.44	14.69
24		11.6		1.36	12.96	30		13.7	13.5	13.60 1 1	1.51	15.11
25		11.8		1.35	13.15	31		13.8	13.8	13.80 0 0	1.55	15.35
26		12.2		1.38	13.68	32		14.0	13.9	13.75 0 1	1.58	15.53
27		12.7		1.39	14.09			14.0				15.57

Bright P.C.'s and diff. images along.

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Mc Series 394

Scale R Mc 7141 Color Index 3.01 +74 Alt. +.15 P. C.

	Sc.1	Sc.2	Curve	Mag	g Sc.	h Sc.	Curve	Mag	Sc. 2
1	5.3 5.6				11.0	t.b.	11.04	a i	11.3
2	5.5 5.8				11.0	11.1	11.05	0 1	11.7
3	6.0 6.3		2.77	9.07	11.4	11.7	11.55	2 1	11.8
4	7.1 7.4	P.	2.33	9.73	12.2	12.3	12.25	0 1 - 2.39	9.86	12.3
5	7.1 7.4	B.	2.33	9.73	12.1	12.2	12.15	1 0 - 2.36	9.79	12.8
6	8.3 8.6	8.8	8.70	1 1	18.53	13.2	13.3	13.25	0 1 - 2.31	10.94	13.3
7	8.8 9.1	9.1	9.10	0 0	17.21	10.82	13.7	13.3	13.50	2 2 - 2.27	11.23	13.6
8	7	10.1			14.91	11.59	14.0	13.9	13.95	0 1 - 2.14	11.81	13.9
9		10.8			13.91	12.19	7					7
10		* 18.9			1.36 14.26	24	17					
11		12.0	12.1	12.05	0 1	13.61	13.36					
12		12.7	13.6	12.65	1 0	13.91	14.04					
13		12.8	12.7	12.75	0 1	14.01	14.15					
14		13.7	13.7	13.70	0 0	15.31	15.23					
15		13.8	13.9	13.85	0 1	15.51	15.40					

Remeas. Mar. 31, 1915.

9	10.9
10	11.8 * Evidently wrong unit.
11	12.0

Recorder O.

G.F.M. Mar. 31, 1915

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Saturday, January 23, 1915

Cand.

Mc Series 394 copies

Scale R Mc 7142 Pleiades Alt. +70 P.C.

	Sc.1	Sc.2	Curve	Sc.1	Sc.2	
1				4.4 4.7		
2				5.1 5.4		
3				5.3 5.6		
4				5.4 5.7		
5				5.7 6.0		
6				5.7 6.0		
7				6.4 6.7		
8				6.9 7.2		
9	B.			7.3 7.6	B.	
10	B.			7.6 7.9	8.1	800 1 1
11	2.1 2.4			8.3 8.6	8.7	865 0 1
12	1.9 2.0			8.6 8.9	8.7	880 1 1
13	2.9 3.2				9.3	
14	2.8 3.1				9.3	
15	2.6 2.9				9.8	
16	2.6 2.9				9.7	
17	3.6 3.9				10.1	
18	4.7 5.0				11.0	
19	4.9 5.2				11.4	
20	5.4 5.7				11.1	
21	5.3 5.6				11.2	
22	5.4 5.7				11.5	
23	5.6 5.9		~~892~~	~~882~~	11.7	
24	6.0 6.3		277	907	12.3	
25	6.5 6.8		258	938	12.1	
26	6.5 6.8	B.	258	938	12.8	
27	7.2 7.5	B.	229	979	13.1	
28	7.4 8.1		8[illegible]3	[illegible]22	13.[illegible]	

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Cand.

Ophiuchi

Mc Series 394.

Scale R Mc 7143 Pleiades (cont.) Alt. +20

	Sc.1	Sc.2	Sc.3			Sc.2	Sc.3
Too close to "s"	1	.	.			8.3	B. 8.38 a.
" "	2	.	.			9.3	8.7 9.00 3 3
" "	3	.	.			t.f.	t.p. .
" "	4	.	.			t.p.	t.p. .
" "	5	.	.			10.2	9.8 10.00 2 2
" "	6	.	.			t.p.	t.p. .
" "	7	.	.			10.9	10.9 10.90 0 0
Too close to "s"	8	.	.			11.7	11.4 11.55 1 2
" "	9	.	.			12.0	12.1 12.05 0 1
8.0 7.7	10	B.	8.0 a.			12.9	12.7 12.80 1 1
	11	8.4	t.p. 8.4 a.			13.6	13.5 13.55 0 1
	12	8.6	t.p. 8.6 a.			13.8	13.7 Too near star 13.75 0 1
	13	8.8	t.p. 8.8 a.			14.9 3	13.90 a.
	14	8.7	t.p. 8.7 a.			14.0	14.0 14.00 0 0
	15	8.7	t.p. 8.7 a.			7.	14.0 14.00 . a
	16	8.7	t.p. 8.7 a.				14.0 14.00 . a
	17	9.9	9.7 9.80 1 1				7. .
	18	10.3	10.1 10.20 1 1				
	19	10.8	10.8 10.80 0 0				
	20	10.4	10.4 10.40 0 0				
	21	10.7	10.7 10.70 0 0				
	22	10.9	10.9 10.90 0 0	-2.34 (15)	8.56 (75)		
	23	11.0	11.1 11.05 0 1	-2.37 (18)	8.68 (87)		
	24	11.2	11.3 11.25 0 1	-2.39 (23)	8.86 (9.02)		
	25	11.7	11.7 11.70 0 0	-2.37 (1)	9.33 (9)		
	26	11.6	11.7 11.65 0 1	-2.31	9.34		
	27	12.5	12.7 12.60 1 1	-2.38	10.22		

cont. p. 150

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mc Series 394

Scale R mc 7/142 Pleiades (cont) g. h. Alt. +30 P.C.

	Sc.1		Sc.2		Curve	Magn	Sc.2	Sc.21		Curve	Magn	Sc.21
		8.7								32	18	
29	7.9		8.0	8.10	11	2.04	10.14	13.3	12.9	13.10	2.2	-2.19	10.94	13.7
		9.1							13.31					
29a 30	8.8		8.9	9.00	11	1.74	10.74	13.4	+0.9	13.35	0.1	-2.29	11.06	7.
30	9.0	9.3	9.25	9.25	10	1.68	10.93	13.6	13.9	13.75	2.1	-2.19	11.56	7.
31			10.1			1.49	11.59	7.	7.	.	.	.		
32			10.8			1.39	12.19	7.	.	.	.	.		
32a			11.0			1.38	12.38							
33			11.21			1.37	12.57							
34			11.9			1.36	13.26							
34a			12.1			1.36	13.46							
35		12.9	12.7	12.70	00	1.40	14.10							
35a		13.4	13.4	13.40	00	1.48	14.88							
36		13.2	13.21	13.20	00	1.45	14.65							
37		14.0	13.9	13.95	01	1.58	15.53							
38		13.9	13.7	13.80	11	1.55	15.35							
p = 39			7.	.		.								

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mc Series 394

Scale R

mc 7/43 B2 Alt. +.23

	Sc.1	Sc.2	Curve	Magn	q	Sc2	Sc 2	Curve.	Magn	P.C. Sc.2
1	2.9 2.6					t.p.	t.p.			10.1
2	3.4 3.1					t.p.	t.p.			10.3
3	4.0 3.7				9.2	t.p.	9.20 a.			10.7
4	4.4 4.1				9.9	t.p.	9.90 a.			11.2
5	3.9 3.6				10.1	9.9?	1000 11			11.1
6	4.5 4.2				10.1	10.1?	1010 00			11.3
7	5.0 4.7				10.3	10.2?	1025 10			11.4
8	5.4 5.1				10.9	10.9?	1090 00			11.8
9	5.5 5.2				10.8	10.9	1085 01			11.9
10	6.0 5.7		288	8.88	11.3	11.7	1150 22			12.7
11	6.0 5.7		288	8.88	11.4	11.4	1140 00			13.0
12	6.7 6.4		2.63	9.33	11.8	11.7	1175 01 ~~-233 942~~			13.0
13	6.4 6.1		273	9.13	11.7	11.6	1165 10			12.8
14	6.9 6.6		255	9.45	11.9	11.8	1185 10 -234		951	13.4
15	7.2 6.9		242	9.62	12.2	12.2	1220 00 -238		982	13.7
16	7.5 7.2	B.	229	9.79	12.1	12.1	1210 00 -236		974	13.7
17	8.0 7.7	8.0	8.00 00	2.07 10.07	12.9	13.0	1295 10 -235		1060	7
18	8.2 7.9	8.6	8.40 22	1.92 10.32	12.9	13.0	1305 12 -233		1072	
19	9.0 8.7	9.1	9.05 01	1.72 10.77	13.4	13.4	1340 00 -238		1108	
20	9.1 8.8	9.2	9.15 10	1.70 10.85	13.4	13.6	1350 11 -230		1120	
21		9.2		169 10.89	13.7	13.8	1375 10 -220		1155	
22		9.9		152 11.42	13.9	14.0	1395 10 -214		1181	
23		9.7		157 11.27	13.9	14.0	1395 10 -214		1181	
24		9.7		157 11.27	14.0	14.0	1400 00 -212		1188	
24a		10.2		148 11.68	14.0	14.0	1400 00 -212		1188	
25		11.8		139 12.19	7.	7.	.	.	.	
26		11.1		187 12.47						

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Mc Swies 394

Scale K Mc 7143 B2 y K.

	Sc.1	Sc.2				Curve	Magn
28		11.7				1.36	13.06
29		11.9				1.36	13.26
30		12.4	12.4	1240	0 0	1.38	13.78
31	13.4	13.3	13.7	13.47	1 2 2	1.48	14.95
31a		13.8	13.7	13.75	0 1	1.53	15.28
32		13.9	13.8	1385	1 0	1.56	15.41
33		13.9	13.9	1390	0 0	1.57	1547
34		14.0	14.0?	14.00	0 0	1.59	1559?
35							

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Saturday, January 23, 1915

mc Series 394.

Scale R mc 7144 Pole.

	Sc.1	Sc.2		Sc.2	Sc.2		P.C. Sc.2
5	.			t.p.	t.p.		10.1
6	.			t.p.	t.p.		10.8
8	.			t.p.	t.p.		12.2
9	.			t.p.	t.p.		12.9
10	6.4 6.1			t.p.	t.p.		12.7
11	6.7			11.8	11.8	11.80 00	13.9
12	7.7 8.0	B.		12.2	t.p.		13.9
13	8.3 8.6	8.6	8.60 00	12.7	t.p.		7.
14	8.8 9.1	9.1	9.10 00	near 12.9			
15	7.	9.9		13.6	13.3	13.45 2.1	
16	7	9.9		13.7	13.7	13.70 00	
17		10.3		13.8	13.7	13.75 0.1	
18		10.8		14.0	13.9	13.95 0.1	
19		11.2		7.			
20		11.4					
23		12.1	11.9 12.00 1.1				
25		12.4	12.3 12.35 0.1				
26		12.9	12.9 12.90 00				
27		13.2	13.1 13.15 0.1				
28		13.7	13.7 13.70 00				
29		14.0	14.0 ? 14.00 00				
30							
31							

15 m out

2.27

Sun 4 145

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1914phae.proj.1042M

Tuesday February 9, 1915

10.55

Series 394 (Part 2)

Scale R mc 7144 Pole. g h Pc

	Sc.1	Sc.2	mc 7150 7161	Sc.2	Sc.2	mc 7150	Diff	Sc.2	mc 7150	Mean	Diff
5	.			tp.	tp.			10.1	9.75	9.92	-.343
6	.			tp.	tp.			10.8	10.65	10.72	-.361
8	.			tp.	tp.			12.3	12.00	12.15	-.392
9	.			tp.	tp.	10.80	10.80-.197	13.0	12.9	12.95	-.412
10	6.1		6.2	tp.	tp.			12.8	13.2	13.00	-.398
11	7.3	B.	7.1	11.8	11.8	11.80 00	11.85 11.82-.227	13.9	13.9	13.90	-.435
12	7.7	B.	7.5	12.1	tp.	12.10 ~	12.20 12.15-.229	13.9	13.8	13.85	-.399
13	8.3	8.4	8.50 11 8.1	12.8	12.8	12.80 00	12.80 1280-.250				
14	8.8	9.1	9.10 00 8.65	12.8	dif.	12.80 ~	12.95 1288-.223				
15	7	9.6	9.80	13.3	13.7	13.50 ~2	13.65 1358-.250				
16	7.	9.9	9.7	13.7	13.7	13.70 00	13.85 1378-.238				
17		10.4	10.1	13.8	13.8	13.80 00	13.90 1385-.222				
18		10.7	10.7	13.9	14.1 ?	14.00 11	14.00 -.194				
19		11.2	11.0	7.	.	.	.				
20		11.7	11.6								
23		12.2	12.1 12.15 01 12.05								
25		12.6	12.6 12.60 00 12.65								
26		13.0	13.0 13.00 00 12.90								
27		13.3	13.3 13.25 01 13.75								
28		13.8	13.7 13.75 01 13.75								
29		7	7. . .								
30		7.	. .								
31											
32											

Mean	Diff
6.30	11 2.72
7.35	23 2.20
7.75	23 2.11
8.30	20 30 2.00
8.88	22 23 1.77
9.80	2 2 1.68
9.80	1 1 1.60
10.25	2 1 1.38
10.70	0 0 1.36
11.10	1 1 1.32
11.65	1 0 1.08
12.10	05 05 1.04
12.62	02 03 1.25
12.95	05 05 1.38
13.50	25 25 1.19
13.75	00 00 1.36

(5 = out)

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Tuesday, February 9, 1915 Cards.

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Series 394 (Part 2)

Scale ↑ mc 7.145 Cartz g h 5.0 +25.0 P.E.

	Sc.1	Sc.2	Cw.	Mag.	Sc	Sc	Cw.	Magn	Sc	Cw.	Magn
	6.1										
1	5.8		2.69	8.79	11.0	t.p.	11.09 a₂ -2.07	8.93	11.3	-3.69 (12)	7.64 (58)
2	6.9 (7.2)		2.30	9.50	11.9	11.9	11.90 o o -2.28	9.62	12.7	-3.99	8.71
3	7.7 (8.0)	B.	2.03	10.03	12.4	12.3	12.35 o 1 -2.34	10.01	13.0	-4.04	8.96
4	7.9 (8.2)		8.10	2.01 10.11	12.7	12.7	12.70 o o -2.38	10.32	13.7	-4.11	9.59
5	8.7 (9.0)		8.9	8950 1 1.75 10.70	12.9	13.1	13.00 L1 -2.39	10.61	13.8	-4.12	9.68
6	9.1 (9.4)		~~10.5~~ 9.7	955 2 1.60 11.15	13.7	13.6	13.65 1 o -2.33	11.32	14.1?	4.14?	9.96?
7	7.		10.3	1.43 11.46 (.73)	14.2	14.0	14.00 o o -2.17	11.83	7.	,	,
8			10.2	1.46 11.66	13.9	13.9	13.90 o o -2.22	11.68			
9			10.5	1.40 11.90	13.9	B.	13.90 a₂ -2.22	11.68			
10			10.9	1.33 12.23	14.0	7.	14.00 a₂ -2.17	11.83			
11			11.6	1.25 12.85							
12			11.9	1.24 13.14							
13			12.2	1.24 13.44							
14			12.5	1.25 13.75							
15			12.7	1.25 13.95							
16		13.1	13.0	13.05 o 1 1.28 14.33							
17		13.2	13.2	13.20 o o 1.29 14.49							
18		13.7	13.7	13.70 o o 1.34 15.04							
19		13.7	13.8	13.75 0 1 1.36 15.11							
20		14.0	13.8	13.90 1 1 1.38 15.28							

(* Wrong star)

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Tuesday, February 9, 1915 Cloud.

Series 394 copied.

Scale R | MC 7146 | Carte alt. +211 | 5.9h +39.5 | P.C.

	Magn	Sc.1	Sc.2		Cw.	Sc.	Sc.2		Cw. Magn	Sc.2
	. 1	5.55 5.32			.	10.8 t.p.	10.89 a	-2.00	8.80	11.8 -3.81 7.99
	8.86 2	5.62 5.9			2.66	11.3 t.p.	11.30 a	-2.14	9.16	12.8 -4.00 8.80
(wrong unit)	9.44 3	4.1 6.8		B.	2.34	11.9 11.9	11.90 0 0	-2.28 -1.76	9.62 10.14	13.1 -4.05 9.05
(wrong image)	9.97 4	7.9 7.6		B.	2.07	12.2 12.3	12.25 0 1	-2.32	9.98	13.6? 13.9 -4.11 9.49?
	10.39 5	8.6 8.3	8.4	8.50 1 1	1.89	12.9 12.7	12.80 1 1	-2.38	10.42	14.0 -4.14 9.86
(Ident.?)	10.31 6	8.4 8.1	8.4	8.40 0 0	1.91	12.9 12.7	12.80 1 1	-2.38	10.42	13.9? -4.13 9.77?
	10.60 7	8.9 8.6	8.7	8.80 1 1	1.80	12.9 13.0	12.95 1 0	-2.38	10.57	9. . .
	10.74 8	9.1 8.8	8.9	9.00 1 1	1.74	12.9 13.0	12.95 1 0	-2.38	10.57	
	10.97 9		9.3		1.67	13.4 13.3	13.35 0 1	-2.37	10.98	
	11.58 10		10.1		1.48	13.8 13.9	13.85 0 1	-2.26	11.59	
	11.97 11		10.6		1.37	7. 7.	.	.	.	
	12.06 12		10.7		1.36	7.	.	.	.	
	12.67 13		11.4		1.27					
	13.04 14		11.8		1.24					
	13.34 15	12.1	11.9	12.3	12.10 0 2 2	1.24				
	14.01 16		12.8	12.7	12.75 0 1	1.26				
	14.07 17		12.7	12.9	12.80 1 1	1.27				
Does not compare well.	14.60 18	13.3	13.1	13.5	13.30 0 2 2	1.30				
	5. 14.04 19		13.7	13.7	13.70 0 0	1.34				
	. 20		7. 7.	.						

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1914phae.proj.1042M

Tuesday February 9, 1915

Card

Series 394

Scale R - mc 7147 P Aurigae Rel Seq. alt. +21 P.E.

	Sc.1	Sc.2	Curve	Magn	Sc.	Sc.	Curve	Magn	Sc.2		
1	4.1 (4.4)				9.8	t.p.	9.89 a		11.1	-3.66	7.44
2	5.7 (6.0)				t.p.	t.p.			12.4	-3.94	8.46
3	6.2 (6.5)	B.	2.55	9.05	11.4	11.4?	11.40 00	-2.47 9.23	12.9	-4.01	8.89
4	8.1 (8.4)	8.3	8.35 01	10.27	12.8	12.9	12.85 01	-2.38 10.47	7		
5	8.9 (9.2)	9.3	9.25 01	10.37	13.1	13.2	13.15 10	-2.38 10.77			
6	7	10.2	11.44	11.44	13.9	13.9	13.90 00	-2.23 11.67			
7		11.0	13.0	17.30	7	7					
8		11.4	12.7	17.67							
9		11.7	12.5	17.95							
10		12.1	12.4	18.34							
11		12.2	12.4	18.44							
12		12.8	12.6	14.96							
13		12.7	12.7	12.70 00	12.5	13.95					
14		12.9	12.9	12.90 00	12.6	14.16					
15		13.7	13.6	13.65 10	13.3	14.98					
16		13.4	13.2	13.30 11	13.0	14.60					
17		13.8	13.8	13.80 00	13.6	15.16					
18		14.7	14.7								

*Wrong star

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1914phae.proj.1042M

Tuesday, February 9, 1915 Card.

Series 394

Scale P Inc. 7147 Planigon Vge. Seq. Alt. +21 P.E.

	Sc.1	Sc.2	Curve Magn	Sc.	Sc.			Sc.	Cw.	Magn
				t.p.	t.p.			8.3		
a	13.							11.0	8.	.
b	4.1			"	"				60	
c	3.1			"	"			10.7	-356	7.10
c' (Wrong unit)	3.4			"	"			10.4	-354	6.86
c²	4.2			"	"			10.9	-365	7.25
d	5.4			"	10.1	10.10	a₂ .	11.3	-373	7.57
e	5.7		2.79 8.72	10.7	10.6	10.65	1 0 -1.95	11.9	-383	8.07
f (Wrong unit)	6.1		2.87 9.37	12.6	11.2	11.40	2 2 -2.17	12.8	-400	8.80
g	6.7	B.	2.87 9.37	11.8	Elong.	11.84	a₁ -2.27	13.3	-408	9.22
g' Wrong star	7.1	B.	2.92 9.62	11.9	11.8	11.85	1 0 -2.28	13.3	-408	9.22
g²	7.6	B.	2.97 9.97	12.1	12.2	12.15	1 0 -2.32	13.8	-412	9.68
h³	7.9	8.0	8.10 1.201 10.11	12.2	12.7	12.45	2 3 -2.35	13.8	-412	9.68
h²	8.7	8.9	8.95 0 1.175 10.70	13.0	12.9	12.95	0 1 -2.38	14.	.	.
k	8.1	8.3	8.35 0 1.192 10.27	12.7	12.9	12.80	1 1 -2.37	10.43		
l	8.8	9.2	9.15 1 0 1.70 10.85	13.0	Elong.	13.02	a₁ -2.39	10.61		
m	7.	10.2	1.44 11.64	14.0	13.9	13.95	0 1 -2.19	11.76		
n		9.2	1.68 10.88	13.3	13.7	13.50	2 2 -2.36	11.14		
o		10.1	1.48 11.58	14.0	13.8	13.90	1 1 -2.39	11.62		
o'		10.2	1.44 11.64	t.p.	14.0	14.00	a₁ -2.17	11.83		
o²		11.1	1.30 12.40	7.	.	.	.	.		
p		11.6	1.25 12.85							
q		11.8	1.24 13.04							
r		12.1	1.24 13.34							
s (Wrong unit)	12.9	13.0	12.93 0 1.26 14.19	13.7				Star image		
t (Wrong unit)	13.2	13.4	13.20 0 2.29 14.49	13.5						
u		13.4	13.55 2 1.32 14.87	13.7						
w		13.3	13.45 1 2.31 14.76	13.6						
x		14.0?	14.[illegible]	13.[illegible]						

Ident. uncertain

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Tuesday, February 9, 1915 Cand.

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Series 3 94 Alt. +.21

Scale P Anc 7146 Carte g h 6.0 +31.5 P.C.

	Cm.	Magn	Sc.1	Sc.2		Sc.1	Sc.2	Cm.	Magn	Sc.2	Cm.	Magn
			3.1								61	19
1			2.8?			t.p.	t.p.			10.8	-3.59	7.21
2			5.6 5.3			10.3	t.p.	10.38	i 2	-.184	8.46	11.9 -3.82 8.08
3	2.55	9.05	6.5 6.2			11.1	11.1	11.11	0 0	-.209	9.02	12.9 -4.01 8.89
4	2.01	10.11	8.1 7.8	B.		12.1	12.1	12.10	0 0	-.231	9.79	13.9 -4.11 9.79
5	1.86	10.46	8.6 8.3	8.7	8.65 01	12.6	12.8	12.70	1 1	-.237	10.33	7 . .
6	1.84	10.54	8.7 8.4	8.7	8.70 00	12.8	12.9	12.85	0 1	-.238	10.47	
7	1.68	10.88	9.2 8.9	9.3	9.25 01	13.3	13.0	13.15	1 2	-.238	10.77	
8	1.59	11.19	9.7	9.6		13.7	13.4	13.55	1 2	-.236	11.19	
9	1.45	11.65		10.2		13.9	14.0	13.95	1 0	-.219	11.76	
10	1.32	12.32		10.9		7.		.			.	
11	1.34	12.14		10.8								
12	1.36	12.06		10.7								
13	1.32	12.32		10.9								
14	1.30	12.40		11.1								
15	1.30	12.40		11.1								
16	1.26	12.71		11.4	11.5	11.45 01						
17	1.24	13.24		12.1	11.9	12.00 11						
18	1.25	13.95		12.7	12.7	12.70 00						
19	1.26	14.16		12.9	12.9	12.90 00						
20	1.38	15.28		13.9	13.9	13.90 00						

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Tuesday, February 9, 1915

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Card.

Series 3 #94

Scale R Inc. 7149 Cent. Alt. +.16 g h. 6.0 +17.5 PC

Cm.	Magn		Sc.1	Sc.2			Sc2	Sc.2	Cm.	Magn	Sc.2		
.			14.9 (5.2)				10.7?	t.f	10.7? à = .-1.96	8.74	12.6	-3.97	8.63
2.69	8.79	2	5.8 (6.1)				11.2	10.9	11.05 2 1 -2.08	8.97	13.3	-4.09	9.21
2.51	9.11	3	6.3 (6.6)				11.7	t.f.	11.79 à = .-2.24	9.46	13.3	-4.09	9.21
2.34	9.44	4	6.8 (7.1)	B.			11.8	11.8	11.80 0 0 -2.27	9.53	13.9	-4.12	9.78
2.20	9.70	5	7.3 (7.5)	B			12.2	12.1	12.15 0 1 -2.32	9.83	7.	.	.
1.92	10.52 (27)	6	8.3 (8.6)	8.1	8.4	8.35 1 2 3 0	12.7	12.7	12.70 0 0 -2.37	10.33			
1.77	10.77 (6.)	7	8.5 (9.0)	8.8		8.90 1 1	13.0	12.9	12.95 0 1 -2.39	10.56			
1.75	10.85 (70)	8	8.8 (9.1)	8.8		8.95 -1 2	13.2	12.9	13.05 2 1 -2.39	10.66			
1.58	11.28	9	7.	9.7			13.7	13.9	13.80 1 1 -2.28	11.52			
1.45	11.65	10		10.2			13.7	14.0	13.85 1 2 -2.26	11.59			
1.36	12.06	11		10.7			14.0	7.	14.09 à = .-2.17	11.83			
1.34	12.14	12		10.8			7.		.				
1.24	13.44	13		12.2									
1.24	13.44	14		12.2									
1.24	13.64	15		12.4									
1.24	13.69	16		12.5	12.4	12.45 10							
1.27	14.12	17		12.8	12.9	12.85 01							
1.28	14.33	18		13.0	13.1	13.05 01							
1.33	14.98	19		13.7	13.6	13.65 10							
~~1.88~~	~~14.23~~	*	20	13.0	12.9	~~12.95 01~~							

Remeasured Jan. 20, 1916 Rec. O.

	Sc.2		Sc.2	
12	10.9	19	13.3	
13	11.9 12.0	20	12.9	← wrong star. Reject
14	12.1 12.2	18	12.9	

* Wrong star marked, reject. Also examined by mt O. Jan. 1916.

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1914phae.proj.1042M

Tuesday. February 9. 1915

Series 3 $\frac{3}{29}$ 4.

Scale R	Mc 7150 Sc.1	Sc.2	Pole.	q h Q.2 Sc.2			P.C. Sc.2		
5	.			t.p.	t.p.		9.7	9.8	9.75 10
6	.			"	"		10.6	10.7	10.65 01
8	.			"	"		12.0	12.0	12.00 00
9	.			10.8	10.8	10.80 00	12.9		
10	5.9 6.7			t.p.	t.p.	.	13.2		
11	6.8 7.1	B.		11.9	11.8	11.85 10	13.9		
12	7.2 7.5	B.		12.2	12.2	12.20 00	13.8		
13	7.8 8.1	B.		12.7	12.9	12.80 11	T.		
14	8.5 8.6	8.7	8.65 01	12.9	13.0	12.95 10			
15	8.9 9.2	9.2	9.20 00	13.7	13.6	13.65 10			
16	T.	9.7		13.9	13.8	13.85 10			
17		10.1		13.8	14.0	13.90 11			
18		10.7		T.	T.	.			
19		11.0							
20		11.6							
23		12.0	12.1						
25		12.6	12.7 12.65 01						
26		12.9	12.9 12.90 00						
27		13.8	13.7 13.75 01						
28		13.8	13.7 13.75 01						
29		T.	T.						
30		T.							
31									
(35 = 30 out T) 32									
3.10									

See p 154

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1914phae.proj.1042M

Wednesday, February 10, 1915

2.03 mc Series 402

Scale R mc 7242 Pole

	Sc.1	Sc.2	MC 7247 p166	Mean.	Diff	Sc.1	Sc.2	MC 7247
5						7.8 (8.1)	8.0	8.05 10 8.05 8.05 00
6						8.3 (8.6)	8.7	8.65 01 8.70 8.68 03 02
7								
8							10.1 10.2	10.15 10 10.15 10.15 00 00
9							10.8 10.8	10.80 00 10.90 10.85 05 05
10	5.3 (5.6)			5.7	5.65 01	3.37	10.9 10.9	10.90 00 10.95 10.92 02 03
11	6.2 (6.5)			6.3	6.40 1 1	3.15	11.6	11.7 01 11.65
12	6.7 (7.0)			6.6	6.80 2 2	3.06	12.1	12.5 2 12.30
13	7.4 (7.7)	D.		7.5	7.60 1 1	2.70	12.9	12.7 1 12.80
14	7.9 (8.2)	8.1	8.15 01	8.1	8.12 03 02	2.53	13.1	12.8 12.95
15	8.3 (8.6)	8.7	8.65 01	8.60	8.62 03 02	2.46	13.4	13.6 1 13.50
16	8.8 (9.1) (9.3)	9.4	9.27 02	18.90	9.08 19 18	2.32	13.8	13.7 01 13.75
17	7.	9.8		9.35	9.58 22 23	2.05	14.0	14.0 00
18		10.3		10.1	10.20 1 1	1.86	7	14.1 14.10
19		10.7		10.7	10.70 0 0	1.72		
20		11.1		10.8	10.95 1 2	1.78		
23		11.8		11.8	11.80 0 0	1.54		
25		12.3		12.1	12.20 1 1	1.67		
26		12.7		12.55	12.62 08 07	1.71		
27		13.1	12.8 12.95 12	12.90	12.92 03 02	1.77		
28		13.4	13.4 13.40 00	13.50	13.45 05 05	1.66		
29		13.9	13.8 13.85 10	13.85	13.85 00 00	1.81		
30		14.0	14.0 14.00 00	13.95	13.98 02 03	2.06		
31		13.9	13.9 13.90 00	14.05	13.98 08 07	2.24		
32		7.						

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1914phae.proj.1042M

Wednesday, February 10, 1915

Candi

M C Series 402

Alt Cour +16

Scale R mc 7/244 D.m. 1.10 +12.5 P.C.

		Sc.1	Sc.2		Cw. Magn	Sc.1	Sc.2		Cw. Magn.
75.00	-1.56	1 5.4	B		3.32 9.02	7.	10.9	11.1 11.00	1 1 - 2.09 8.91
8 03 02	-1.57	2 6.6	B		2.97 9.87		12.1	12.2 12.15	1 0 - 2.29 9.86
		3 7.9	8.0	8.10	1 1 2.53 10.63		13.4	13.4 13.40	0 0 - 2.41 10.99
00 00 15.	-1.92	4 8.9	9.2	9.20	0 0 2.19 11.39		13.8	13.8 13.80	0 0 - 2.35 11.45
05 85	-2.02	5 7.	9.6		2.08 11.68		7.	7.	
03 92	-1.90	6	10.3		1.88 12.18				
01 65	-2.10	7	10.8		1.76 12.56				
2 30	-2.44	8	11.1		1.72 12.82				
11 80	-2.50	9	11.3		1.69 12.99				
12 95	-2.30	10	11.7		1.66 12.36				
11 50	-2.42	11	12.1	12.0	12.05 1 0	1.64 13.69			
01 75	-2.35	12	12.0	~~11.9~~ 12.1	11.95 0 1	1.65 13.60			
00 50	-2.37	13	12.4	12.4	12.40 0 0	1.64 14.04			
02 10	-2.04	14	12.9	12.8	12.85 1 0	1.64 14.49			
		15	13.9	13.9	13.900 0	1.86 15.76			

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1914phae.proj.1042M

Wednesday, February 10, 1915

Card.

M C Series 402 Alt -.03

Scale R | M C 7245 | Φ.D m. | 1.30 − 7.5 | P.C.

	Sc.1	Sc.2		Cw. Magn.	Sc.1	Sc.2	
1	4.3 46.				7.	10.1 10.1	10.10 00 − 1918.19
2	5.5 58.			3.89 9.09		11.2 11.3	11.35 01 − 2.14 9.11
3	6.7 40.			2.93 9.93		11.9 11.9	11.90 00 − 2.25 9.65
4	7.8 81.		B.	2.53 10.63		13.1 13.2	13.15 10 − 24 10.74
Elong., Double?	5	8.9 92. 9.30 11	9.4	9.30 11	2.17 11.47		13.8 13.9 13.85 01 − 2.33 11.52
	6	7.	9.9		2.00 11.90	7.	
	7		10.8		1.76 12.56		
	8		10.8		1.76 12.56		
	9		11.3		1.70 13.00		
	10		11.7		1.66 13.36		
	11		11.9	11.9	11.90 00	1.65 13.55	
Wrong unit.	12		18.1 12	12.1	12.10 00	1.64 13.74	
	13		12.4	12.3	12.35 01	1.64 13.99	
	14		12.7	12.8	12.75 10	1.64 14.39	
Wrong unit	15		13.5 13	13.6	13.55 10	1.72 15.27	

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1914phae.proj.1042M

Wednesday, February 10, 1915

Card

Mc Series 402 Alt +.10

Scale R Mc 7246 D.M. 1.30 +75 P.C.

	Sc.1	Sc.2		Cm. Magn	Sc.1	Sc.2		
1	4.1 3.8				7.	9.6	9.7	9.65 01 - 182 7.83
2	5.56 5.3			3.35 8.95		10.9	10.7	10.90 00 - 206 8.84
3	7.1 6.8			2.90 10.00		12.3	12.3	12.30 00 - 231 9.99
4	8.4 8.1	B.		2.45 10.85		13.5	13.7	13.60 11 - 240 11.20
5	7.	9.7		2.04 11.74		7.	14.0	14.0 .a - 226 11.74
6		10.6		1.80 12.40			7.	
7		10.8		1.75 12.55				
8		10.9		1.74 12.64				
9		11.2		1.70 12.90				
10		11.6		1.68 13.28				
11		11.7	11.7	11.70 00 1.66 13.36				
12		12.0	11.9	11.95 01 1.65 13.60				
13	12.2	12.6	12.2	12.33 13 1 1.64 13.97				
14		12.9	12.8	12.85 10 1.64 14.49				
15		13.8	13.8	13.80 00 1.80 15.60				

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1914phae.proj.1042M

Wednesday, February 10, 1915

Mc Series #02

Scale P Mc 7247 Pole Pe

	Sc.1	Sc.2		Sc.1	Sc.2	
5	.			7.7 7.80 7.8 8.1	B.	8.05 01
6	.			8.5 8.8	8.6	8.70 11
8	.			7.	10.0 10.3	10.15 21
9	.				10.9 10.9	10.90 00
10	5.4 5.7				10.9 11.0	10.95 10
11	6.0 6.3				11.7	
12	6.2 6.6				12.5	
13	7.2 7.5	B.			12.7	
14	7.8 8.1	B			12.8	
15	8.3 8.6	8.6	8.60 00		13.6	
16	8.7 9.0	8.8	8.90 11		13.7	
17	9.0 9.3	9.4	9.35 10	Def.?	14.0?	
18	7.	10.1			14.1?	
19	7.	10.7			7.	
20		10.8				
23		11.8				
25		12.1				
26		12.7	12.4 12.55 12			
27		12.9	12.9 12.90 00			
28		13.4	13.6 13.50 11			
29		13.9	13.8 13.85 10			
30		14.0	13.9 13.95 01			
31		14.1?	14.0 14.05 10			
32			7.			

3.27

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1914phae.proj.1042M

~~Saturday~~
~~Thursday~~ February 13, 1915

10.35 mc Series 402 (2nd half)

Scale R mc 7247 Pole

	Sc.1	Sc.2	mc 7233 Mean	Diff	Sc.1	Sc.2	mc 7253	Diff
5					7.6 7.7	B.	7.95 1.0 7.80	7.88 - 1.39
6					8.3	8.6	8.60 0.0 8.70	8.65 - 1.54
8					7.	10.2 10.1	10.15 0.1 10.20	10.18 - 1.95
9						10.9 10.8	10.85 1.0 10.90	10.88 - 2.05
10	5.5		5.7	5.85 0.1 3.17		10.9 10.9	10.90 0.0 11.00	10.95 - 1.93
11	6.4		6.6	6.50 1.1 3.05		11.6	11.8	11.70 - 2.15
12	6.6		7.2	7.05 1.2 2.81		11.9	12.1	12.00 - 2.14
13	7.2	B.	7.6	7.55 1.0 2.75		12.7	12.7	12.70 - 2.40
14	7.7	8.1	8.05 0.1	8.2 8.12 0.7 0.8 2.53		12.9	13.2	13.05 - 2.40
15	8.3	8.7	8.65 0.1	8.80 8.72 0.7 0.8 2.36		13.4	13.3	13.35 - 2.27
16	8.6	8.7	8.80 1.1	9.1 8.98 1.8 1.7 2.42		13.7	13.9	13.80 - 2.40
17	9.0	9.3	9.15 0.0	9.6 9.38 2.3 2.2 2.25		14.0	14.0	14.00 - 2.37
18	7.	10.0		10.3 10.15 2.1 1.91		7.	f .	,
19		10.4		10.8 10.60 2.2 1.82				
20		10.8		11.0 10.90 1.1 1.83				
23		11.5		11.8 11.65 1.2 1.69				
25		12.1		12.2 12.15 1.0 1.72				
26		12.4 12.4	12.40 0.0	12.55 12.48 0.8 0.7 1.85				
27		12.9 12.8	12.85 1.0	13.10 12.98 1.8 1.2 1.71				
28		13.5 13.4	13.45 1.0	13.40 13.42 0.3 0.2 1.69				
29		13.9 13.8	13.85 1.0	13.95 13.90 0.5 0.5 1.76				
30		14.0 13.9	13.95 0.1	14.00 13.98 0.3 0.2 2.06				
31		14.1? 14.1?	14.10 0.0	14.10				2.12
32		7.	.	. .				

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1914phae.proj.1042M

Saturday, February 13, 1915

Card

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Inc Series 402

Scale R Inc. 7248 P Arietis Alt. +.21 P C.

		Sc. 1	Sc. 2		Cw.	Magn.	Sc. 1	Sc. 2		
	a	3.5 38.			.		8.3 86.	8.8	8.70 1.1 −1.56	→ 7.1
	b	4.6 49.			.		7	10.2	10.2 10.200 0 −1.90	8.3
	c	4.9 52.			.			10.3	10.2 10.25 10 −1.91	8.3
	d	4.4 47.			.			10.1	10.1 10.10 00 −1.88	8.2
	e	5.9 62.			3.09	9.29		11.7	11.8 11.75 10 −2.17	9.58
	f	5.1 60.			3.11	9.11		11.3	−2.09	9.2
	g	6.1 70.	B.		2.86	9.86		12.4	−2.28	10.1
*	h	5.8 61.	5		3.10	9.20		13.1	~~−2.35~~	~~10.7~~
	k	6.8 71.	B.		2.83	9.93		12.2	−2.23	9.9
	l	7.8 81.	8.0	8.05 10	2.56	10.61		13.1	−2.34	10.7
See note on chart	m	.	.	.	.	.		.	.	.
	n	8.8 91.	9.3	9.20 11	2.22	11.42		13.9	−2.38	10.5
	o	8.9 92.	9.2	9.20 00	2.22	11.42		13.8	−2.39	11.1
	p		9.7		2.09	11.79		7		
	q		10.2		1.94 6	12.14				
	r		10.6		1.86	12.46				
	s		11.7		1.73	13.53				
(wrong star)	t		11.21 ~~12.5~~		1.79	12.99				
	u		12.2		1.70	13.90				
	w		12.8		1.70	14.50				
	x		12.8		1.70	14.50				
Do not find	y	.	.		.	.				
Three stars on	z	.	.		.	.				
chart on reflector	α	.	.		.	.				

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Saturday, February 13, 1915

Card.

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mc Series 402

Scale R mc 724 & (cont) R Orietis Alt. +21 P.C.

		Sc.1	Sc.2		curve magn.	Sc.1	Sc.2	
*								
7.14	K^2		B.		+2.13	7.	12.57	~~-2.28 10.22~~ see note at foot of page.
8.30	m'		9.5		+2.13	11.64	13.7	-2.38 11.32
8.34	n'		10.1		1.99	12.09	14.0	-2.38 11.62
8.22	o'		9.5		2.14	11.64	7.	
9.58	p'		11.2		1.99	12.99		
9.21	q'	12.0	11.7	11.85 ±1	1.92	13.57		
10.12	r'	12.3	12.4	12.35 ±0	1.70	14.05		
~~10.75~~	s'	12.9	12.9	12.90 ±0	1.70	14.60		
9.97	t'	13.1	13.1	13.10 ±0	1.70	14.80		
10.46	w'	13.8	13.7	13.75 ±1	1.98	15.53		
10.52								
11.41								
	Var.		12.5		1.70	14.20		

* Star K^2 was measured and recorded as K', since it was supposed all additional stars would be designated as "primes", but to avoid confusion the original des. of K^2 is to be retained. S.I.M. Feb. 17, 1915

See note on cover of mc 4120, the ref. plate.

q Remeas. May 24, 1915

h Rec. O.

q ~~11.8~~ 12.1

* h 11.8

k 12.2

* P.C. of h. Wrong image measured at first evidently. There are two images close together here, of [illegible] S.I.M. May 24, 1915

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1914phae.proj.1042M

Saturday, February 13, 1915

Cand.

Ymc Series H02

Scale R Ymc 7249 ⊕m. 2.10 +32.5 Alt +22 P.E.

	Sc.1	Sc.2		Cw.	Sc.1	Sc.2	Cw. Magw
1	4.4 (4.7)			.	7	10.3	10.3 10300 0 − 1.91 8.39
2	5.0 (5.3)			.		10.9	10.9 10900 0 − 2.03 8.87
3	6.3 (6.6)			2.98	9.58	12.3	12.25 10 − 2.24 10.01
4	7.7 (8.0)	B.		2.58	10.58	13.8	13.7 13750 1 − 2.38 11.37
5	8.5 (8.8)	8.8	8800 0	2.33	11.13	13.9	13.9 (13.90) 0 0 − 2.38 11.52
6	8.9 (9.2)	9.1	9150 1	2.24	11.39	14.0	− 2.38 11.62
7	7.	9.8		2.06	11.86	7.	. .
8		10.1		1.99	12.09		
9		10.4		1.91	12.31		
10		10.7		1.85	12.55		
11		10.9	11.0	10950 10	1.81	12.76	
12 (wrong unit)		11.3	11.2	11300 0	1.78	13.08	
13		11.8	11.8	11800 0	1.73	13.53	
14		12.1	12.0	12050 10	1.71	13.76	
15		13.1	13.1	13100 0	1.70	1480	

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1914phae.proj.1042M

Saturday, February 13, 1915

Cand.

M C Series 402

Scale R Mc 7250 0 Cti Ref. Leg. Alt +03 Pc.

	Sc.1	Sc.2			Sc.1	Sc.2		Cw.	Magn.
	5.1°							-196	59
B' = 1	4.8			Magn.	(wrong unit)	10.4	9.7	10.55 21 - 187	8.62
	5.9°							~~-196~~	
2	5.6			3.13 9.03		10.9	10.9	10.90 00 - ~~203~~	8.87
	6.2°								
3	5.9			3.08 9.28		11.5	11.4	11.45 10 - 2.11	9.34
	6.8°				(Wrong unit)				
4	6.5			2.91 9.71		11.8	12.9	11.85 01 - 2.19	9.66
	7.5°								
5	7.2	B.		2.73 10.23		12.7	12.7	12.70 00 - 2.30	10.40
	8.0°								
6	7.7	B.		2.58 10.58		12.9		- 2.32	10.58
	9.0°								
7	8.7	8.9	8.95 01	2.31 11.26		12.7		- 2.30	10.40
	9.1°								
8	8.8	9.1	9.10 00	2.25 11.35		14.0		- 2.38	11.62
9	9.	9.9		2.03 11.93		14.0		- 2.38	11.62
10	9.	9.9		2.03 11.93		7		.	.
11		10.1		1.99 12.09					
12		10.3		1.93 12.23					
13		10.8		1.84 12.64					
14		11.0		1.81 12.81					
15		11.2		1.79 12.99					
16		12.3	12.2 12.20 00	1.70 13.90					
17 (wrong unit)		12.7	18 12.70 00	1.70 14.40					
18		13.0	13.0 13.00 00	1.70 14.70					
19		13.1	13.0 13.05 10	1.70 14.75					
20		13.9	14.0 13.95 10	1.86 15.81					

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1914phae.proj.1042M

Saturday, February 14, 1915

Spid 9:34

Card.

Inc Series H02

Scale R Inc 7250 ~~D.Fn. 2.30 — 12.5~~ Var. Seq. Cote Alt. 1.03 P.C.

	Sc 1	Sc 2		Sc 1	Sc 2			
t				6.6 6.9 / 6.3 6.6		6.75 2.1	.	.
t'				7.6 7.4 / 7.2 7.1		7.45 1.0	.	.
u				7.7 7.6 / 7.1 7.3		B. 7.50 1.1	-1.29	6.21
y				8.2 / 7.9		8.1 8.15 0.1	-1.45	6.70
z	B. 3.7		Cu. Magn	8.1 8.2 7.6 / 7.8 7.9 7.3		B 7.97 1.2 4	-1.40	6.57
z'	3.4 / 3.3		.	9.2 / 8.7		9.1 9.15 0.1	-1.67	7.48
α	3.2 / 2.9		.			9.1	-1.66	7.44
α'	3.0 / 2.7		.			8.9	-1.60	7.30
β	4.4 / 4.1		.			9.8	-1.81	7.99
β'	.	.	.	.		.	.	8.59
δ	6.0 / 5.5		3.11 9.11			11.1	-2.06	9.04
δ'	6.6 / 6.3		2.98 9.58			11.8	-2.18	9.62
γ	6.6 / 6.3		2.98 9.58			11.7	-2.17 5	9.53 5
ε	.	B.	. .			12.8	-2.31	10.49
ζ	8.1 / 7.8	B.	2.54 10.64			12.9	-2.32	10.56
η	8.0 / 7.7	B.	2.58 10.58			13.2	-2.35	10.85
θ	9.0 / 8.7	B. 8.95 0.1	2.60 11.55			13.8	-2.38	11.42
						.	.	
Var.	3.2 / 2.9	B.	. B	7.		9.3	-1.70	7.60

See no. 1 ref seq.

Defective

Almost all images for this sequence slightly elongated.

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1914phae.proj.1042m

Saturday, February 13, 1915

Card

Mc Series 402

Scale R. Mc 7257 Plate D.M. 2:30–12.5 Ret –.121 P. C.

	Sc.1	Sc.2			Sc.1	Sc.2			Cw. Magn.
1	5.4 (5.7)			3.19 8.89	7.	11.1	11.1	11.10 00–2.06	9.04
2	6.4 (6.7)			2.95 9.65		11.9	12.0	11.95 10–2.19	9.76
3	6.9 (7.2)	B.		2.81 10.01		12.9	12.7	12.80 11–2.31	10.49
4	8.1 (8.4)	8.3	8.35 01	2.49 10.84		13.9	13.8	13.85 10–2.38	11.47
5	7.	9.6		2.10 11.70		14.0	13.9	13.95 01–2.38	11.57
6		10.3		1.93 12.23					
7		10.7		1.84 12.54					
8		10.9		1.83 12.73					
(Wrong unit) 9		11.3		1.78 13.08					
10		11.7		1.74 13.44					
11		11.9	12.0	11.95 10	1.73 13.68				
12		11.9	12.0	11.95 10	1.73 13.68				
13		12.1	12.2	12.15 10	1.70 13.85				
14		12.9	13.0	12.95 10	1.70 14.65				
15		14.0	14.0	14.00 00	1.92 15.92				

Mc 7252, Not to be measured See note on cover.

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1914phae.proj.1042M

Saturday, February 13, 1915

Inc Series 402

Scale R Inc 7253 Pole P C

	Sc 1	Sc 2		Sc 1	Sc 2	
5				7.7 7.6	B.	7.80 1.1
6				8.4	8.7	8.70 0.0
8				7.	10.1	10.3 10.20 1.1
9					10.9	10.9 10.90 0.0
10	5.6				11.0	11.0 11.00 0.0
11	6.3				11.8	
12	6.9				12.1	
13	7.3				12.7	
14	7.9	B.			13.2	
15	8.6	8.7	8.80 1.1		13.2	
16	8.7	9.2	9.15 2.1		13.9	
17	7.	9.6			14.0	
18		10.3			7.	
19		10.8				
20		11.0				
23		11.8				
25		12.2				
26		12.5	12.6 12.55 1.0			
27		13.1	13.1 13.10 0.0			
28		13.4	13.4 13.40 0.0			
29		14.0	13.9 13.95 0.1			
30		14.0	14.0 14.00 0.0			
31		7.	7.			
32						

(wrong star)

1.09

See p 169

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1914phae.proj.1042M

Wednesday, March 17, 1915

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11.00 mc Series 320 YELLOW

Scale W. mc 6251 Dq alt -.22 Pc.

	Sc.1	Sc.2	Cw.	Magn	Sc.1	Sc.2	Cw.	Magn
1	9m. poor.		.	.	7.	8.8 8.8	880 00 – 1.48	7.32
2	" "		.	.		9.2 9.1	9.150 i – 1.41	7.74
3	4.7 4.6		3.19	7.89		9.0 9.0	9.00 00 – 1.44	7.56
4	3.9 3.8	B.	3.64	7.54		8.9 8.9	890 00 – 1.46	7.44
5	5.0 4.9	B.	3.02	8.02		9.7 9.9	9.80 i – 1.26	8.54
6	5.8 5.7 5.75 0 i	5.7	2.62	8.37		7. 7. .	. .	
7	6.4 6.3 6.35 0 i	6.3	2.38	8.13		7. 7. .	. .	
8	4.4 4.3	B.	3.35	7.75		9.1 9.1	9.10 00 – 1.42	7.68
9	8m. poor.	B.	.	.		8.8 8.8	880 00 – 1.48	7.32
10	7.0 6.9 6.90 i i	6.8	2.14	9.04		7.	. . .	
11	7.2 7.1 7.20 00	7.2	2.24	9.24		7	. . .	
12	7.4 7.3 7.50 i i	7.6	1.97	9.47				
13	6.8 6.7 6.75 0 i	6.7	2.21	8.96				
14	7.7 7.6 7.70 00	7.7	1.92	9.62				
15	7.4 7.3 7.50 i i	7.6	1.97	9.47				
16	8.0 7.9 7.95 0 i	7.9	1.90	9.85				
17	6.6 6.5 6.45 2 i	6.3	2.32	8.77				
18	7.9 7.8 7.85 4 10	7.8	1.91	9.76				
19	7.	8.3	1.90	10.20				
20		8.8	1.91	10.71				
21		8.7	1.91	10.61				
22		7.6	1.94	9.54				
23		8.7	1.91	10.61				
24		9.1 9.1 9.10 00	1.92	11.02				
25		8.8 8.7 8.75 0 i	1.91	10.66				
26		9.6 9.8 9.70 i i	1.98	11.68				
27		8.9 8.8 8.85 1 0	1.91	10.76				

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YMC Series 3 #20 YELLOW

Scan W YMC 6251 Dg (cont) Alt. 2.21

	Sc.1	Sc.2		
28		7.7		
29		9 9.85 10 9.8	1.99	11.84
30		7.		
31		7		
32		7.		
33				

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M C Series 320 YELLOW

Scale W M C 6252 Near Sect. 58 Alt. -.04 P C

	Sc.1		Sc.2	Cm.	Magn	Sc.1	Sc.2	Cm.	Magn
						1.7			
1	B.			.	.	7.6	7.8	775 10 – 1.59	6.16
2	B			.	.	7.8	7.9	790 00 – 1.57	6.33
3	3.9? 4.0		D.	3.59	7.59?	7.	8.9 8.8	885 10 – 1.47	7.38
4	5.8 5.9	5.85 10	5.8	2.59	8.44		9.9 10.0	995 10 – 1.82	8.73
5	5.4 5.5	5.40 11	5.3	2.79	8.19		9.8 9.8	980 00 – 1.26	8.54
6	7.2 7.3	7.30 00	7.3	2.01	9.31		7.	.	.
7	6.8 6.9	6.90 00	6.9	2.14	9.04		7	.	.
8	8.0 8.1	8.15 10	8.2	1.90	10.05		7.	.	.
9	8.0 8.1	8.30 11	8.3	1.90	10.10				
10	8.0 8.1	8.15 10	8.2	1.90	10.05				
11	7.		8.7 885 10	1.91	10.71				
12			8.9 8.8	1.91	10.76				
13			9.5 9.6 9.55 10	1.97	11.52				
14			9.8 9.7 9.75 01	1.99	11.74				
15			8.9 8.9 8.90 00	1.91	10.81				
16			9.7 9.9 9.80 11	1.99	11.79				
Def mean, 17			7. 7	.	.				
18			7. 7	.	.				
19			7 7	.	.				
20			7.	.	.				

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Wednesday, March 17, 1915

MC Series 320 **YELLOW**

Scale W MC 6253 Pole. P.C.

	Sc.1	Sc.2	MC 6257 p.184	Diff.			Sc.1	Sc.2	6257 p.184	
5	B.		.		Cu	Magn	7.9	8.1	8.05 01	8.00 80 2
6	2.7 28.	B.	. 280 a	4.18	4.17	6.97	7.	8.7 8.8	8.75 10	8.75 8.75
7	9m. pos.		.		.	.		8.9 8.9	8.90 00	9.00 8.95
8	4.9 5.0.	B. 6.1	5.0	5.00 00	3.03	3.03	8.03	9.1 9.2	9.15 10	9.25 9.20
9	6.23 6.30 00	6.3	6.25	6.28 02 03	2.46	2.40	8.68	10.0 9.9	9.95 01	10.00 9.98
10	6.8 6.85 10	6.8	6.90	6.88 03 02	2.00	2.15	9.03	7.	.	.
11	7.4 7.50 00	7.5	7.75	7.62 12 13	1.74	1.94	9.56			
12	7.6 7.70 00	7.7	7.75	7.72 02 03	1.86	1.92	9.64			
13	7. 8.10 00	8.1	8.10	8.10 00 00	1.98	1.90	10.00			
14	7.	8.6? 8.65 10	8.1	8.35 2 3	1.89	1.90	10.25			
15		8.7 8.6 8.95 01	8.75	8.70 05 05	1.94	1.91	10.61			
16		9.0 8.9 8.95 01	8.85	8.90 05 05	2.04	1.92	10.82			
17		9.0 8.9 9.70 11	9.00	8.98 03 02	2.06	1.92	10.90			
18		9.8 9.6 9.90 00	9.80	9.75 05 05	1.81	1.99	11.74			
19		9.9 9.9	10.0	9.95 05 05	1.99	2.00	11.95			
20		7. 10.0?	9	10.04 . a	2.19	2.00	12.00?			
21										
22										
23										
24										
+87°	12	9m. pos.	.	44	4.40 . a	3.36	7.76	9.1 9.0	9.05 10	9.10 9.08 03 02
+88°	2	5.2 53 5.15 1	5.0	54	5.28 13 12	2.85	8.13	9.4 9.2	9.30 11	9.25 9.25 02 03
	3	6.7 6.9 6.75 01	6.7	6.80	6.78 03 02	2.19	8.97	7. 7.	.	.
	10	5.4 5.5 5.40 1 1	5.3	5.65	5.52 12 13	2.74	8.26	9.8 9.7	9.75 01	9.90 9.82 07 08
+87°	15	9m. pos.	.	.	.	.	.	9.2 9.2	9.20 00	9.30 9.25 05 05
88°	80	" "	.	.	.	.	.	7. 7.	.	.
	86	" "	.	.	.	.	.	7. 7.	.	.
(Wrong unit)		6.9 6.80 1 1	6.7	6.85	6.82 03 03	2.47	8.99	7. 7.	.	.

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mc Series 320 YELLOW

Scale W mc 6253 Pole (cont) Pt.

	Cu.	Magn		Sc.1	Sc.2	mc 6257 p.184	Cu.	Magn	Sc.1	Sc.2	6257 p.185			
-1.59	-158	6.42	2r	B.	B.	.	.	.	7.	8.2	8.10	8.15	05 05	-1.56 6.59
-1.77	-149	7.26	3r	9m floor		.	.	.		9.0	8.95	8.98	02 03	-1.44 7.54
-1.49	-146	7.49	4r	5.1 (5.2)	5.15 01	5.1	5.40	5.28 13 12	2.85	8.13	9.6	9.75	9.68 08 07	-1.29 8.39
-1.17	-140	7.80	5r	6.8 (6.3 21)	6.75 10	6.2	6.20	6.22 03 02	2.41	8.63	7	7	.	.
-1.24	-120	8.78	6r	6.8 (69)	6.90 00	6.9	7.00	6.95 05 05	2.13	9.08	7.	7	.	.
			7r	7.7 (7.5)	7.75 01	7.7	7.75	7.75 00 00	1.92	9.67				
			8r			8.2 8.3 (8.25 01)	8.25	8.25 00 00	1.90	10.15				
			9r			8.7 8.7 (8.70 00)	8.70	8.70 00 00	1.91	10.71				
			10r			9.8 9.7 (9.75 01)	9.95	9.85 10 10	1.99	11.84				
			11r			9.9 9.9 (9.90 00)	9.80	9.85 05 05	1.99	11.84				
			12r			7.	7	.	.	.				
			4s	7.7 (7.8)	7.80 00	7.8	7.70	7.75 05 05	1.92	9.67				
			5s			7.7 7.5 (7.60 12)	7.30	7.70 10 10	1.91	9.61				
			6s			8.6 8.6 (8.60 00)	8.60	8.60 00 00	1.90	10.50				
Too near 5S.			7s			.	.	.	.	.				
			8s			7. 7. 7	.	.	.					
			9s											
			a'			8.1			1.90	10.00				
			a²			9.1	9.3	9.80 1 1	1.90	11.10				
3.02	-1.42	7.66	f			8.9	8.8	8.85 1 0	1.91	10.76				
2.03	-1.39	7.89	e			9.4 9.7 (9.55 21)	9.80	9.68 13 12	1.98	11.66				
			d			9.0 9.0 (9.00 00)	9.15	9.08 08 07	1.92	11.00				
7.08	-1.26	8.56	e			9.3 9.2 (9.25 10)	9.35	9.30 05 05	1.94	11.24				
5.05	-1.40	7.85	f			9.9 9.8 (9.85 10)	9.75	9.80 05 05	1.99	11.79				
			g			9.9 9.9 (9.90 00)	9.90	9.90 00 00	2.00	11.90				
			h			7.	7	.	.	.				

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MC Series 320 YELLOW

Scale W MC 6254 C9 Alt +.02 Pc.

	Sc.1		Sc.2	Dm.		Sc.1	Sc.2		
1	Dm. for.			.	.	7.	8.8	8.9	88501 -147 7.38
2	2.5	36.		4.24	6.84		8.6	8.6	86000 -150 7.10
3	2.1	32.	2.7	.	.		8.3	8.2	83510 -155 6.70
4	2.4	35.		.	.		8.8	8.8	88000 -148 7.32
5	3.8	39.	B.	3.63	7.53		9.5	9.7	96010 -136 8.27
6	4.1	48.	B.	3.13	7.93		9.8		-126 8.54
7	4.0	41.	B.	3.53	7.63		9.7		-129 8.41
8	5.8	59.	5.9	2.55	8.45		7.		. .
9	7.4	75. 7.60 1.1	7.7	1.94	9.54		7.		. .
10	7.8	79. 7.90 0.0	7.9	1.90	9.80				
11	6.3	64. 6.40 0.0	6.4	2.35	8.75				
12	7.4	75. 7.50 0.0	7.5	1.96	9.46				
13	7.1	75. 7.75 0.1	7.7	1.91	9.66				
14	7.		8.40 1.1 8.5 8.3	1.90	10.30				
15			8.20 1.1 8.3 8.1	1.90	10.10				
16			9.40 2.2 9.6 9.2	1.95	11.35				
17			9.80 0.0 9.8 9.8	1.99	11.79				
18			7.	.	.				
19			7.	.	.				
20			7.	.	.				
21									
22			7.	.	.				
23									
24									
25									
26									
27									

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mC Series 320 YELLOW

Scale W mC 6254 Cg alt +.02 P.C.

	Sc.1		Sc.2		Sc.2			
28								
29								
30								
31								
3a	3.6 (3.7)		B.	3.73	7.43	8.9	8.9	8.90 00 - 1.46 7.44
6a	4.2 (4.3)		B.	3.41	7.71	9.6	9.4	9.50 1.1 - 1.33 8.17
8a	6.4 (6.5)	6.60 Li	6.7	2.96	8.86	7.		

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YELLOW

Mc Series 320

Scale W Mc 6255 RX Draco. Alt +.11 P.C.

	Sc.1	Sc.2			Sc.1	Sc.2			
α	Dim floor.	-			7.	9.2	9.6	9.45 12-136	809
β	" "	.				9.7	9.7	9.70 00-129	841
γ	" "	.				7.	7.	. .	.
a	" "	.							
b	" "	.							
c	" "	.							
d		7.7	7.7	7.70 00	1.93	9.63			
e		8.6	8.7	8.65 01	1.91	10.56			
f		9.8	9.7	9.75 01	1.99	11.74			
g	Hazy.	9.7	9.7?	9.70 00	1.98	11.68?			
h	Wrong unit	8.7	9.7?	9.70 00	1.98	11.68?			
k		9.9	9.8	9.85 10	1.99	11.84			
l		7	7	.	.	.			
m		7.		.	.	.			
n									
o									
p									
q									
r									
s									

Var. 8.4

For Ref Seq. See page 186

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YELLOW

Scale W Mc 6256 R Cygni Alt +.12 Pc.

		Sc.1	Sc.2	Cm.		Sc.1	Sc.2	Cm.	Magn.
a off.						7.7			
	b	B		.		8.3	7.7	7.55 2 1	~~4.60~~ 5.95
	c	B		.		7.8	7.9	7.90 00	1.58 6.32
	d	B.	B.	.		7.	8.1 8.2	8.15 10	1.56 6.59
	e	7.00 joon		.		7.	8.4 8.7	8.55 2 1	1.51 7.04
	g	3.3 (3.4)		3.90	7.30		8.7 8.7	8.70 00	1.49 7.21
	i	7.00 joon		.	.		8.8		1.48 7.32
	k	4.7 (4.8)	B.	3.12	7.92		9.3		1.39 7.91
	l	4.8 (4.1)	B,	3.53	7.63		8.9		1.44 7.46
	l	5.1 (5.2) 5.10 1 1	5.0	2.99	8.09		10.0		1.21 8.79
	m	6.3 (6.4) 6.35 0 1	6.3	2.38	8.73		4.		
	n	6.4 (6.5) 6.55 1 0	6.6	2.29	8.84				
	o	7.3 (7.4) 7.30 1 1	7.2	2.01	9.31				
	p	8.7 (7.8) 7.80 00	7.8	1.91	9.71				
	r	7.	8.4	1.90	10.30				
	q		8.3	1.90	10.20				
	s		8.80 00 8.8	1.91	10.71				
	t		9.85 1 0 9.8	1.99	11.84				
	w		9.85 2 1 9.7	1.99	11.84				
	u		10.00 00 10.0	2.00	12.00				
	x		10.00 00 10.0	2.00	12.00				
	y		7.	.	.				
	z								
			9.30 00						
Var.			9.3 9.3	1.94	11.24				

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Wednesday, March 17, 1915

Mc Series 320 YELLOW

Scale W Mc 6257 Pola. R E.

	Sc.1		Sc.2		Sc.1	Sc.2	
5	B.		B.		7.9 (8.0)	8.0	8.00 00
6	Def.				7.	8.7 8.8	8.75 10
7	Too foo.					9.0 9.0	9.00 00
8	4.9 (5.0)		B.			9.4 9.1	9.25 21
9	6.3 (6.4) (6.3)	6.25 12 10	6.1	6.2 (6.3)		10.0 10.0	10.00 00
10	6.8 (6.9)	6.90 00	6.9		7.		
11	7.7 (7.8)	7.75 01	7.7				
12	7.7 (7.8)	7.75 01	7.7				
13	8.0 (8.1)	8.10 00	8.1				
14	7.		8.1				
			8.75 10				
15			8.7 8.8				
			8.85 01				
16			8.8 8.9				
			9.00 00				
17			9.0 9.0				
			9.80 00				
18			9.8 9.8				
19			7 10.0				
20			7. 7.				
21							
22							
23							
24							
+87° 12	4.3 (4.4)		B.			9.1 9.1	9.10 00
+88° 2	5.3 (5.4)		B.			9.3 9.2	9.25 10
9	6.8 (6.9)	6.80 11	6.7			7. 7.	
10	5.6 (5.7)	5.65 10	5.6			9.9 9.9	9.90 00
+87° 15	Too foo.		B.			9.4 9.2	9.30 11
88° 80	9m. foo.					7. 7.	
86	9 m. foo.					7. 7.	
10	6.8 (6.9)	6.85 10	6.8			7. 7.	

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Mc Series 320 YELLOW

Scale W Mc 6257 Pole. Pc.

	Sc.1		Sc.2	Sc.1	Sc.2	
				8.1		
2r	B,		B,	8.0	8.1	8.10 00
3r	7.00 poor,		B,	7	8.9 9.0	8.95 1.0
4r	5.4 (55)	5.40 1.1	5.3		9.8 9.7	9.75 0.1
5r	6.2 (6.3)	6.20 1.1	6.1		7 7.	
6r	6.9 (7.0)	7.00 0.0	7.0		7.	
7r	7.7 (7.8)	7.75 0.1	7.7			
8r			8.25 0.1 3 8.2 8.7			
9r			8.70 0.0 8.7 8.7			
10r			9.75 0.1 10.0 9.9			
11r			9.80 0.0 9.8 9.8			
12r			7.			
4s	7.5 (7.6)	7.70 1.1	7.8			
5s	7.8 (7.9)	7.80 1.1	7.7			
6s			8.60 0.0 8.6 8.6			
7s	.		.			
8s			7			
9s						
a'						
a²			9.3			
f			8.8			
c			9.80 0.0 9.8 9.8			
d			9.15 1.0 9.1 9.2			
e			9.35 1.0 9.3 9.4			
f			9.75 1.0 9.7 9.8			
g			9.90 1.1 9.8 10.0			
h			7. 7.			

(8r + 9r interchanged by mistake)

Too near 5s

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Wednesday, March 17, 1915

Mc Series 320 YELLOW

Scale W Mc 6255 RY Draco. (Ref. Seq.) Alt +.11 P.C.

	Sc.1	Sc.2			Sc.1	Sc.2		
1	B.				7.7	7.80	−1.58	6.22
2	2.0				7.	8.3	−1.54	6.76
3	4.7		B.	3.13 7.93	9.1	9.1	−1.52	7.58
4	5.7	5.95 +.1	6.1	2.68 8.47	7.			
5	6.7	6.90 +.1	7.0	2.18 9.04				
6	6.7	6.75 0.1	6.7	2.28 8.95				
7	7.1	7.25 0.1	7.3	2.02 9.27				
8	7.8	7.85 1.0	7.8	1.91 9.76				
9	7.9	8.10 +.1	8.2	1.90 10.00				
10	7.		8.6	1.91 10.56				
11			8.9	1.91 10.81				
12			9.7	1.98 11.68				

(35m out)
3.20.

See page 182. This sequence was measured in order, together with var. sequence on the same date, but recorded here, as no page had been left for it in its proper order.

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Thursday, March 18, 1915

2.15 WOLBACH 7mc Series 320 YELLOW

Scale W 7mc 6.25 Pole Pc.

	Sc.1		Sc.2	mc 6262 fr 195	Diff.			Sc.1	Sc.2	6262 fr 195			
5	B		B.	.		Curve.	Magn	8.1 8.0	8.2	8.15 10	8.05	8.10 05	05 -1.67
6	2.4	2.5		.	2.58 a.	4.48	.	7.	8.7 8.7	8.70 00	8.65	8.68 02	03 -1.70
7	9m. fog.			.	.	.	.		8.7 9.0	8.85 12	8.90	8.88 03	02 -1.36 +2
8	5.0	5.1	B.	4.4	4.75 34	3.28	3.24	7.99	9.3 9.0	9.40 11	9.45	9.42 02	03 -1.39
9	6.1	6.2 6.20 00	6.2	5.90	6.05 15	15 2.69	2.60	8.65	7 7.	.	.	.	.
10	6.7	6.8 6.70 11	6.6	6.40	6.55 15	15 2.33	2.38	8.93	7	.	.	.	.
11	7.4	7.5 7.60 11	7.7	7.20	7.40 20	20 1.96	2.13	9.53		Cu.	Magn.		
12	7.5	7.6 7.65 01	7.7	7.50	7.58 07	08 2.00	2.10	9.68	5	-1.68	6.42		
13	7.9	8.0 8.00 00	8.0	8.05	8.02 02	03 2.06	2.05	10.07	6	-1.57	7.11		
14	8.0	8.1 8.13 001	8.1 8.2	8.05	8.09 04	04 2.15	2.04	10.13	7	-1.51	7.37		
15	7.		8.7 8.8	8.55	8.65 10	10 1.99	2.00	10.65	8	-1.35	8.07		
16			8.9 8.9	8.90	8.90 00	00 2.04	1.99	10.89					
17			9.0 9.1	8.90	8.98 07	08 2.06	1.99	10.97					
18			9.8 9.7	9.80	9.78 03	02 1.78	1.96	11.74					
19			7. 7.	9.85	9.85 7	= 2.09	1.96	11.81					
20				f	,	,							
21													
22													
23													
24													

							Cu.	Mag					
+87°	12	4.4	4.5	B	3.8	4.42	15 3	4	3.54	7.69	9.1	9.05	9.08 -1.46 7.62
+88°	2	5.1	5.2	B	4.8	5.00	2	2	3.13	8.13	9.2 9.2	9.20 00	9.50 9.35 -1.38 7.97
	90	6.7	6.8 6.75 01	6.7	6.6	6.68	07	08	2.32	9.00	7	.	. . .
	105	5.5	5.6 5.50 11	5.4	5.15	5.32	18	17	2.98	8.30	9.9 9.8	9.85 10	9.90 9.88 .
+87°	15	3m. fog.		B.	.	.				.	9.2 9.4	9.30 11	9.40 9.35 -1.38 7.97
+88°	80	3m. fog.			.	.				.	4.	.	. . .
	86				.	.				.	4	.	. . .
			6.8 6.75 01								4 4.		

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Thursday, March 18, 1915

MC Series 320 YELLOW

Scale W | MC 6257 | Pole (cont) | P.C.

	Sc.1	Sc.2	MC 6262 +196		Curve	Magn.	Sc.1	Sc.2	6262 +196	
2n	B.	B.	.		.	.	8.0	8.1	8.10 00	7.95 8.02
3n	3.7	B.	.	3.80 a=	3.75	7.55	7.	8.9	8.9 8.90 00	8.95 8.92
4n	5.0	5.0	4.90	4.98 07 08	3.13	8.11		9.8	9.7 9.75 01	9.65 9.70
5n	6.1	6.1	5.90	6.02 13 12	2.61	8.63	7.	.	.	.
6n	6.9	6.9	6.70	6.82 13 12	2.28	9.10	7.	.	.	.
7n		7.6 7.7	7.65	7.65 00 00	2.10	9.75			Cu	mag
8n		8.2 8.1	8.05	8.10 05 05	2.04	10.14			-169	6.33
9n		8.7 8.7	8.70	8.70 00 00	1.99	10.69			-151	7.41
10n		10.0 9.9	9.95	9.95 00 00	1.96 2.04	11.98			.	.
11n		9.9 9.9	9.80	9.85 05 05	1.96	11.81			.	
12n		7. 7.	.	.	.	.				
HS		7.8 7.8	7.40	7.60 20 20	2.10	9.70				
5S		7.7	7.55	7.62 08 07	2.10	9.72				
6S		8.4	8.30	8.35 05 05	2.02	10.37				
7S		.	.	.	.	.				
8S		7.	.	.	.	.				
9S			.			.				
a'		8.2 8.1	7.90	8.00 10 10	2.05	10.05				
a^2		8.9 9.0	8.90	8.92 03 02	2.00	10.92				
f		8.8 8.7	8.80	8.78 03 02	1.99	10.77				
e		9.7 9.9	9.70	9.78 07 08	1.96	11.74				
d		9.0 9.0	9.00	9.00 00 00	1.99	10.99				
e		9.5 9.3	9.50	9.45 05 05	1.98	11.43				
f		9.8 9.9	9.90	9.88 03 02	1.96	11.84				
g		10.0 7.	9.90	9.95 05 05	1.96	11.91				
h		7.6 7.	.	.	.	.				

Too near 5S

(Wrong star)

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6 plates BK 22:80

Mc Series 320 YELLOW

Scan W. mc 6258 χ Cygni alt. +.11 P.C.

a, f, d, e of plate	Sc. 1	Sc. 2	Cm.	Magn	Sc. 1	Sc. 2			
c					60.				
a	B		.		5.9	5.8	5.90 1.1	.	
f	B		.		6.8 (69.)	7.0	6.95 0.1	.	
h	B		.		7.6 (77.)	7.8	7.75 1.0	.	
g	B		.		7.8 (79.)	7.8	7.85 1.0	−1.71	6.14
k	B		.		7.	8.3		−1.65	6.65
m	B		.		7.	8.4		−1.62	6.78
m	B		.			8.1		−1.68	6.42
9m. pee. q			.			9.0		−1.48	7.52
k	B		.			7.8		~~−1.71~~	~~6.09~~
o			.			8.9		−1.51	7.29
r	4.9 (50.)		B, 3.14	8.14		9.7		.	.
s	5.3 (54.)	5.30 1.1	5.2 2.98	8.28		9.9		.	.
t	6.1 (62.)	6.15 0.1	6.1 2.54	8.69		7.		.	.
p	3.9 (40.)		B, 3.64	7.64		8.9		1.51	7.39
w	6.7 (68.)	6.75 0.1	6.7 2.30	9.05		10.0?		.	.
u	6.7 (68.)	6.75 0.1	6.7 2.30	9.05		7.		.	.
z	7.7 (78.)	7.80 0.0	7.8 2.08	9.88		7.		.	.
x	6.9 (70.)	7.05 0.1	7.1 2.21	9.26					
y	7.1 (72.)	7.25 0.1	7.3 2.16	9.41					
v			8.1 (8.05 1.0) 8.0	2.04	10.09				
δ			9.1 (9.05 1.0) 9.0	1.99	11.04				
α			7.9 (7.90 0.0) 7.9	2.07	9.97				
β			8.1 (8.15 1.0) 8.2	2.03	10.18				
ε			9.4 (9.35 0.1) 9.3	1.98	11.33				
ζ			7. 7.		.				
ι			7. 7.		.				
?			9.9?	1.96	11.86?				
			7 8	2.0	8.19				

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Mc Series 320 YELLOW

Scale W Mc 6259 Q3 Alt. +.08 P.C.

	Sc.1	Sc.2		Cu. Magn	Sc.1	Sc.2	Cu. Magn
1	Edge	.		. .	Edge	.	
2	"	.		. .		8.6 8.7	86501 - 1.58 7.07
3	9m. foc.	B.		. .	7.	9.0 9.0	90000 - 1.48 7.52
4	9m. foc.	B.		. .	7.	8.5 8.7	86011 - 158 7.02
5	B.	B.		. .		7.9 7.8	78510 - 1.71 6.09
6	4.9 50.	B.		3.14 8.14		9.7	. .
7	3.6 37.	B.		3.81 7.51		8.8	- 1.53 7.27
8	6.2 63.	6.1	6.20 1 1	2.52 8.72		7.	. .
9	6.6 67.	6.7	6.70 0 0	2.32 9.02		7.	. .
10	5.9 60.	6.1	6.05 0 1	2.61 8.66 ~~3.13 9.18~~			
11	6.4 65.	6.5	6.50 0 0	2.39 8.89			
12	6.9 70.	7.2	7.10 1 1	2.19 9.39			
13		6.9		2.25 9.15			
14		7.2		2.19 9.39			
15		7.8		2.08 9.88			
16		7.3		~~2.14~~ 9.44			
17		8.2		~~2.03~~ 10.23			
18		8.5		2.01 10.51			
19		8.6		2.00 10.60			
20		7.9		2.07 9.97			
21		8.9 8.9	8.90 0 0	1.99 10.89			
22		9.0 9.1	9.05 0 1	1.99 11.44			
23		9.4 9.4	9.40 0 0	1.98 11.38			
24	9.4	9.7 9.3	9.47 1 2	1.97 11.44			
25		9.5 9.5	9.50 0 0	1.97 11.47			
26		7. 7.		. .			
27		7. 7.		. .			

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Thursday, March 18, 1915

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WOLFF mc Series 320 YELLOW

Scale W mc 62 69 ~~63~~ D 11 Alt -.10 P.C.

	Sc.1	Sc.2	Cw.	Magn	Sc.1	Sc.2	Sc.2	Sc.2	Cw.	Magn
									-1.68	6.42
					8.0				~~-2.04~~	~~+0.14~~
1 28	9m. floor					9.0	9.1			
2 29	" "				7	9.6	9.8		.	.
3 30	" "				9m. floor				.	.
4 31	" "					9.4	9.4		-1.36	8.04
5 32	3.5	3	3.86	7.46		8.9	8.9		-1.51	7.39
6	~~9m.~~ floor		.	.	9.2	9.2	9.2		-1.37	8.00
7	5.1		3.04	8.24		9.8	9.9		.	.
8	9m. floor.		.	.		9.0			-1.49	7.51
9	6.3?		2.43	8.83?		9.9			.	.
10	4.7	B.	3.23	8.03		9.3			-1.39	7.91
11	5.1 5.10 1 1	5.0	3.09	8.19		9.9			.	.
12	6.1 6.20 0 0	6.2	2.52	8.72		7.			.	.
13	5.2	B.	2.98	8.28						
14 Wrong unit	7.1 7.20 0 0 0 0	7.2 7.2	2.17	9.37						
15	7.8 7.85 1 0	7.8	2.08	9.93						
16	6.8 6.90 0 0 0	6.9 6.9	2.24	9.14						
17	6.8 6.90 0 0	6.9	2.24	9.14						
18	7.8 7.80 0 0	7.8	2.08	9.88						
19	7.8 7.85 1 0	7.8	2.08	9.93						
		7.85 0 1								
20		7.8 7.9	2.08	9.93						
		8.15 0 1								
21		8.2 8.1	2.04	10.19						
		7.85 1 0								
22		7.9 7.8	2.08	9.93						
		8.60 1 1								
23		8.7 8.5	2.00	10.63						
		7.75 0 1								
24		7.8 7.7	2.08	9.83						
		8.90 0 0								
25		8.9 8.9	1.99	10.89						
		9.10 1 1								
26		9.2 9.0	1.99	11.09						
		8.80 1 1								
27		8.9 8.7	1.99	10.79						
		8.86 0 0								
28		8.9 8.8	1.99	10.89						

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Thursday, March 18, 1915

MC Series 320 YELLOW

Scale W MC 6260 D11

	Sc.1	Sc.2			
		9.90 .00			
29		9.9	9.9	1.96	11.86
		9.95 .01			
30		10.0	9.9	1.96	11.91
		9.80 .00			
31		9.8	9.8	1.96	11.76
32		7.	7.		

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Thursday, March 18, 1915

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Inc Series 320 YELLOW

Scale W Inc 6261 C11 alt. +.09 P.C.

	Sc.1		Sc.2	Cm.	Magn	Sc.1	Sc.2	Cm.	Magn
1	B.		.		.	8.1 8.0 8.00 1 1	7.9	-1.64	6.31
2	B.		.		.	7.9 7.8 7.90 0 0	7.9 9.35 0 1	-1.70	6.20
3	4.4 4.3		B.	3.44	7.84	7	9.29.3	-1.41	7.84
4	5.9 5.8		B.	~~2.68~~	~~8.58~~		7.9 7.9 7.9 8.95 1 0	-1.70	6.20
5	4.4 4.3		B	3.44	7.84		8.9 9.0	-1.49	7.46
6	5.0 4.9		B.	3.14	8.14		9.2	-1.42	7.78
7	6.4 6.3	6.30 1 1	6.2	2.49	8.79	7	.	.	.
8	6.8 6.7	6.75 0 1	6.7	2.30	9.05	10.0	.	.	.
9	6.8 6.7	6.80 0 0	6.8	2.28	9.08	7	.	.	.
10	7.0 6.9	6.95 0 1	6.9	2.22	9.17	7	.	.	.
11	7.3 7.2	7.40 1 1	7.5	2.13	9.53				
12	6.0 5.9	6.05 0 1	6.1	2.60	8.65				
13	5.8 5.7	5.90 1 1	6.0 5.7 0 0	2.68	8.58				
14			5.7 5.7	2.77	8.47				
15			7.9	2.08	9.98				
16			7.9	2.08	9.98				
17			8.0	2.05	10.05				
18			7.9	2.08	9.98				
19			8.9	1.99	10.89				
20			8.8	2.00	10.80				
21			9.4	1.98	11.38				
22			9.7	1.96	11.66				
23			8.7 8.7 9.85 1 0	2.00	10.70				
24			9.9 9.8 9.90 0 0	1.96	11.81				
25			9.9 9.9 9.35 1 0	1.96	11.86?				
26			9.3 9.4	1.98	11.33				
27			7. 7.	.	.				

Sc. meas. of star 4 certainly wrong. Too bit for scale, between 2nd + 3rd 9 m. on scale. (first 2 images on sah)
O. July 18, 1917.
Repeat N.S.L.

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Thursday, March 18, 1915

mC Series 320 YELLOW

Scale W	mC 6261	C11		
	Sc.1	Sc.2		
28	9.9	9.90 9.9	1.96	11.86
29	10.0?	10.00 10.0?	1.96	11.96?
30	7	7		
31				
32				
33				

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Thursday, March 18, 1915

Ymc Series 320 YELLOW

Scale W Ymc 6262 Pole PC.

	Sc.1	Sc.2		Sc.1	Sc.2	
5	B.			8.0 7.9	8.1	8.05 01
6	B.			7.	8.6	8.7 8.65 01
7	Edge			7.	8.9	8.9 8.90 00
8	4.8 4.3	B.			9.3	9.6 9.45 12
9	6.1 6.0 5.9 6.0 59021 21	5.7	5.8	(Wrong im.)	8.7 8.1	
10	6.3 6.2 6.40 11	6.5			7	
11	7.1 7.0 7.20 11	7.3			7.	
12	7.4 7.3 7.50 11	7.6				
13	8.0 7.9 8.05 01	8.1				
14	8.1 8.0 8.05 10	8.0				
15	7.	8.55 10 8.5	8.6			
16		8.90 00 8.9	8.9			
17		8.90 00 8.9	8.9			
18		9.80 00 9.8	9.8			
19		9.85 10 9.9	9.8			
20		7.				
21						
22						
23						
+87° 12	3.8 3.7	B.			9.0	9.1 9.05 01
+88° 2	4.8 4.7	B.			9.5	9.5 9.50 00
9	9m from	6.6			7.	
10	5.3 5.2	5.0			9.9	9.9 9.90 00
+87° 15	9m from	B.			9.4	9.4 9.40 00
+88° 80	9m from	.			7	
86	"	.			7.	
11	6.4 6.3	6.4				

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Thursday, March 18, 1915

Mc Series 320 YELLOW

Scale W Mc 6262 Pole (cont.) P.E.

	Sc.1	Sc.2		Sc.1	Sc.2	
				80		
2r	B.	B.		7.9	7.9	7.95 01
3r	Im poor.	P.		7.	8.9 9.0	8.95 10
4r	4.8 4.7	5.0	4.90 11		9.6 9.7	9.65 01
5r	6.0 5.9	5.8	5.90 11		7.	.
6r	6.7 6.6	6.7	6.70 00		7.	.
7r	7.5 7.4	7.8	7.65 12			
8r	8.1 8.0	8.0	8.05 10			
9r		8.7	8.7 8.70 00			
10r		10.0	9.9 9.95 01			
11r		9.7	9.9 9.80 11			
12r		7.	.			
4s	7.5 7.4	7.3	7.40 11			
5s	7.5 7.4	7.6	7.55 10			
6s	7.	8.3	8.3 8.30 00			
7s	.	.	.			
8s		7.	.			
9s						
a'		7.9	7.9 7.90 00			
a^2		8.9	8.9 8.90 00			
b		8.7	8.9 8.80 11			
c		9.6	9.8 9.70 11			
d		9.0	9.0 9.00 00			
e	9.5	9.7	9.3 9.50 02			
f		9.9	9.9 9.90 00			
g		9.9	9.9 9.90 00			
h		7.	9.9 .			

5.30

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Friday, March 19, 1915

10.10 Mc Series 231 YELLOW

Scale R. Mc 5217 Pole Pe.

	Sc.1	Sc.2	5221 fr 201			Diff.	Cm.	Magn	Sc.1	Sc.2	5221 fr 201			
5	2.3. 2.0		2.5	2.40	L 1	4.03	4.09	6.49	7.	11.0	11.0	11.00 00	10.95	10.98 02 03 -455
6	4.0. 3.7		3.8	3.90	1 1	3.08	3.06	6.96		11.9	11.9	11.90 00	11.80	11.85 05 05 -487
7	7 too poor.		.	.		.	.	.		12.4	12.2	12.30 1 1	12.10	12.20 10 10 -474
8	6.9. 6.6		6.6	6.75	1 2	1.28	1.30	8.05		13.0	13.2	13.10 1 1	13.00	13.05 05 05 -502
9	8.1. 7.8	B.	8.0	8.05	1 0	0.69	0.60	8.65	7.				13.95	13.95 . 2 -521
10	9.0. 8.7 8.85 2 1	8.7	8.30	8.58	27 28	0.30	0.30	8.88	7.				7	. .
11	7.	9.5	9.6	9.55	L 0	-0.19	-0.20	9.35				Cm.	Magn.	
12		10.0	9.9	9.95	0 1	-0.37	-0.40	9.55				5 -460	6.38	
13	7.	10.9	11.1	11.00	L 1	-0.92	-0.85	10.15				6 -480	7.05	
14		11.1	11.1	11.10	0 0	-0.86	-0.89	10.21				7 -488	7.32	
15		11.90 L 1 11.8	12.0	11.8	11.85	05 05	-1.21	-1.18	10.67				8 -502	8.03
16		12.35 01 12.2	12.3	12.45	12.35	10 10	-1.41	-1.36	10.99				9 -517	8.78
17		12.35 L 0 12.3	12.4	12.35	12.35	00 00	-1.31	-1.36	10.99					
18		13.30 L 1 13.2	13.4	13.70	13.50	20 20	-1.94	-1.74	11.76					
19		13.70 00 13.7	13.7	13.80	13.75	05 05	-1.81	-1.81	11.94					
20		7		13.95	13.95	7 2	-1.76	-1.88	12.07					
21				7	.	.		.						
22				7	.	.		.						
23				14.00	14.00	. 2	-1.24	-1.89	12.11					
+87° 12	7m. poor.			5.9	5.90	. 2		1.82	7.72	12.95 L 0 12.9	13.0	12.90 (5221 fr 201)	12.92	03 02 -500 7.92
88° 2	6.8. 6.5	6.4		7.0	6.80	20 20		1.28	8.08	13.05 01 13.0	13.1	13.30	13.18	13 12 -506 8.12
9	8.4. 8.1 8.45 01	8.5		8.10	8.28	17 18		0.49	8.77	7				
10	7.1. 6.8 6.95 1 2	6.8		7.1	7.02	07 08		1.16	8.18	13.55 1 1 13.4	13.7	13.65	13.60	05 05 -512 8.48
+87° 15	7m. poor.			6.4	6.40	. 2		1.50	7.90	13.30 00 13.3	13.3	13.00	13.15	15 15 -506 8.09
+88° 8	" "			.	.			.	.	7				
86	"			.	.			.	.	7				
8	8.5 8.55 1 0	8.1		8.65	8.60	05 05		0.31	8.91	7		14.00	14.00	7 2 -518 882

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Friday, March 19, 1915

Mc Series 231 **YELLOW**

Scale R Mc 5217 Pole (cont) PC

	Sc.1	Sc.2	Mc 5221 Fr 202		Cw.	Magn	Sc.1	Sc.2	5221 Fr 202		
2r	3.1 2.8		3.1	3.10 00	361	6.71	Near def.	11.20 00 11.2	11.2	10.80	11.00 20 20
3r	9mm. poor 10		.	.	.	.		12.75 10 12.3	12.2	12.25	12.25 00 00
4r	6.7		7.0	7.00 00	117	8.17		13.30 00 13.3	13.3	13.60	13.45 15 15
5r	7.5 7.8	B.	7.4	7.60 22	083	8.43		13.85 10 13.9	13.8	13.65	13.75 10 10
6r	8.8 9.1	9.1	8.75	8.92 18 17	015	9.07		7.	7.	7.	
7r	7.	10.00 11 10.1 9.9	9.9	9.95 00 01	-040	9.65					
8r	7.	11.10 00 11.1 11.1	10.95	11.02 05 07	-085	10.17			Cw	Magn	
9r		11.85 10 11.9 11.8	11.85	11.85 00 00	-118	10.67		2r	-461	6.39	
10r		13.70 00 13.7 13.7	13.70	13.70 00 00	-179	11.91		3r	-489	7.36	
11r		13.40 00 13.4 13.4	13.55	13.48 08 07	-174	11.74		4r	-509	8.36	
12r		7. 7.	? 14.00	14.00 7 a	-189	12.11		5r	-515	8.60	
4s	7.	10.20 00 10.2 10.2	9.90	10.05 15 15	-043	9.62					
5s		10.50 11 10.4 10.6	10.10	10.30 20 20	-055	9.75					
6s		11.50 22 11.7 11.3	11.85	11.68 18 17	-112	10.56					
7s Too near 5s	.	.	.	.	.	.					
8s		7.	.	.	.	.					
9s											
a'	7.	11.15 10 11.1 11.2	10.8	10.98 17 18	-084	10.14					
a²		12.75 10 12.7 12.8	12.80	12.78 03 02	-152	11.26					
b		12.20 00 12.2 12.2	12.10	12.15 05 05	-180	10.35					
c		13.15 10 13.1 13.2	13.50	13.32 17 18	-168	11.64					
d		12.70 22 12.5 12.9	12.70	12.70 00 00	-198	10.72					
e		12.90 00 12.9 12.9	13.00	12.95 05 05	-158	11.37					
f		13.50 00 13.5 13.5	13.45	13.48 02 03	-174	11.74					
g		13.90 00 13.9 13.9	13.40	13.65 25 25	-179	11.86					
h		7. 7.	7	.	.	.					

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Mc Series 231 YELLOW

Scan R Mc 5219 P Mrs. Maj alt. +.09 Pc.

	Sc.1	Sc.2	Cu.	Magn	Sc.1	Sc.2
a	B.				f	10.3 10.3
d	3.5		3.13	6.93		10.7 10.8 -.455 6.20
g	Too far from centre					12.2 12.3 -.489 7.36
k	Sm. spot					12.9 13.0 -.501 7.94
l	8.0 8.3 8.15 12	8.0	0.53	8.68		f f
l'	6.6 6.9	B.	1.21	8.11		f f 13.35 13.4 -.508 8.27
m						
m'	f.	11.7	-1.12	10.58		
m	f.	10.1	-.047	9.63		
o	f.	10.2	-.051	9.69		
o'		11.9	-.120	10.70		
o²		12.5	-.141	11.09		
p		11.2	-.092	10.28		
q		12.7 13.10 .90	-.148	11.22		
r		13.1 13.1 13.75 .01	-.161	11.49		
s		13.8 13.7	-.181	11.94		
t		f. f.				
u						
u'						
w						
x						
y						
z						
r'		13.7 13.70 .00	-.178	11.81		
r²		13.7 13.7 13.85 .10	-.180	11.90		
r³		13.9 13.8	-.184	12.01		
		9.25 .01	-.203	9.28		

r 12.9
r' 13.6
r² 13.8

* Remeasured April 15, 1915 G.F.M. Reject 1st meas. Second measure evidently correct, but first was evidently

Sm. [illegible] ... and used reference that as this measures 11.9

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Inc Series 231 YELLOW

Scale R Inc 521.9 Plates Maj. P.C.

		Sc.1	Sc.2		Cm	Magn	Sc.1	Sc.2		
		3.1						10.85 10		
1		2.8			3.60	6.70	7.	10.9 10.8	-.457	6.28
		7.4						13.55 30		
2		7.1		B.	0.94	8.14		13.4 13.7	-.511	8.44
		8.1								
3		7.8	8.05 10	8.0	0.60	8.65	7. 7	. .		
		8.9								
(Wrong unit)	8.9	4 9.7	9.00 00	9.0	0.09	9.09				
5		7.		11.90 00						
				11.9 11.9	-.120	10.70				
				11.95 10						
6				11.9 12.0	-.122	10.73				
				13.90 00						
7				13.9 13.9	-.186	12.04				
8				7 7	.	.				
9				7. 7.	.	.				
10										
11										
12										
13										
14										
15										
					-.148					
				12.70 00						
6a				12.7 12.7		11.22				
				13.05 10						
6b				13.1 13.0	-.159	11.46				

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Mc Series 231 YELLOW

Scans P Mc 5221 Poor. P.C.

	Sc.1		Sc.2		Sc.1	Sc.2	
5	2.2	2.5				10.8 9.2 11.1	10.95 ± 1
6	3.5	3.8				11.8 11.8	11.80 00
7	Sm. poor.					12.1 12.1	12.10 00
8	6.3	6.6	B.			12.9 13.1	13.00 ± 1
9	7.7	8.0	B.			14.0 13.9	13.95 01
10	8.1	8.4	8.20	8.30 ± 1		7	
11	7		9.6				
12			9.9				
13			11.1				
14			11.1				
15			11.8				
16			12.4 12.5	12.45 01			
17			12.4 12.3	12.35 01			
18			13.7 13.7	13.70 00			
19			13.8 13.8	13.80 00			
20			14.0 13.9	13.95 01			
21			7 7				
22			7				
23			14.0 14.0	14.00 00			
24			7				
+87° 12	5.6	5.9	B			12.9 12.9	12.90 00
+88° 2	6.7	7.0	6.8			13.3 13.3	13.30 00
9	7.9	8.2	8.0	8.10 ± 1		7	
10	6.8	7.1	B			13.7 13.6	13.65 10
+87° 15	6.1	6.4	B.			12.9 13.1	13.00 ± 1
+88° 80	Sm. poor.					7	
86	" "					7	
15	8.3	8.6	8.7			14.0	

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YMC Series 231 YELLOW

Scan R	mc 5221 Sc.1	Sc.2	Poor.	P.C. Sc.1	Sc.2
2n	3.1 2.8	3.1 a.		7.	10.80 00 10.8 10.8
3n	Im. dec.	.			12.25 01 12.2 12.3
4n	7.0 6.7	B. 7.08 a.			13.60 11 13.7 13.5
5n	7.4 7.1	B. 7.48 a. .			13.65 10 13.7 13.6
6n	8.7 8.4	8.8	8.75 10		7.
7n	7.	9.9			
8n		11.0	10.95 01 10.9		
9n		11.8	11.85 01 11.9		
10n		13.7	13.70 00 13.7		
11n		13.5	13.55 10 13.6		
12n		14.0	14.00 00 14.0 ?		
4s	7.	9.8	9.90 11 10.0		
5s		10.1	10.10 00 10.1		
6s		11.9	11.85 10 11.8		
7s		~~13.4~~			
8s		7.	7.		
9s					
a'	7.	10.8			
a²		12.8	12.80 00 12.8		
b		12.1	12.10 00 12.1		
c		13.5	13.50 00 13.5		
d		12.7	12.70 00 12.7		
e		12.9	13.00 11 13.1		
f		13.3	13.45 12 13.6		
g		13.4	13.40 00 13.4		
h		7.	7.		

Too near 5s.

(about .5m out)

12.43

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