KG
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045

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Genevieve T. Mathews

Book 6

Circumpolar Variables

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Underlines entered through page 86, and wherever copied. Dec. 3, 1914

Genevieve F. Mathews

Record Book no. 6

Series measures

(Circumpolar Variables, etc)

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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 ten sequences are recorded generally with stars in consecutive order of designation or in order of brightness, the measures themselves are made at random, for the sake of independent results.

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Thursday, April 16, 1914

9.51 Series 225

Scale R In C 5141 Pole

	Sc.	Sc.								Sc. 1	Sc. 2					
				MC 5146 p.8	MC 5251 p.14	Mean	Diff.	Reid.				M	MC 5146 p.8	MC 5251 p.14		
5										7.9	8.1	8.15	8.65	8.45		8.4
6										8.7	8.8	8.90	9.35	9.30		9.1
8										7.	10.4 10.6	10.50	10.95	10.95		10.8
9										7.	11.3 11.2	11.25	11.65	11.75		11.5
10	5.8	6.1		6.1	6.5	6.2	6.27	2.75	2 2 1		11.4 11.3	11.35	11.80	11.85		11.6
11	6.7	7.0		7.0	7.2	7.2	7.13	2.42	1 1 1		12.2 12.1	12.15	12.6	12.70		12.4
12	7.2	7.5		7.5	7.5	7.6	7.53	2.33	0 0 1		12.6	12.6	12.8	13.2		12.8
13	7.7	8.0	B.	8.0	8.15	8.20	8.12	2.18	12 03 08		12.9	12.9	13.4	13.3		13.2
14	8.1	8.4		8.50	8.60	8.85	8.65	2.00	15 05 20		13.4	13.4	13.6	13.8		13.6
15	8.7	9.1		9.00	9.15	9.30	9.15	1.93	15 00 15		13.7	13.7	13.9	14.1		13.9
16	7.			9.7	9.8	9.9	9.80	1.60	1 0 1		13.9	13.9	14.0			13.9
17	7.			10.1	10.2	10.1	10.13	1.50	0 1 0		14.0	14.0	14.4			14.2
18				10.6	10.6	10.7	10.63	1.43	0 0 1		14.0	14.0	14.5			14.2
19				10.9	11.2	10.9	11.00	1.42	1 2 1		7.					
20				11.4	11.4	11.4	11.40	1.33	0 0 0							
23				12.2	11.9	12.1	12.07	1.27	1 21 0							
25		12.5	12.6	12.55	12.70	12.4	12.55	1.32	00 15 15 +24							
26		12.9	12.9	12.90	13.20	13.20	13.10	1.23	20 10 10							
27		13.4	13.3	13.35	13.30	13.30	13.32	1.37	03 02 02							
28		13.6	13.4	13.50	13.75	13.70	13.65	1.46	15 10 05							
29		13.8	13.8	13.80	14.10	13.85	13.92	1.74	12 18 07							
30		14.1	13.9	14.00	14.15	14.30	14.15	1.89	15 00 15							

10-14 $\frac{57}{5}$ $\frac{28}{5}$ $\frac{38}{5}$ → −.11 +.06 +.08

15-20 → $\frac{35}{6}$ $\frac{33}{6}$ $\frac{25}{6}$ → −.06 +.05 +.04

21-27 → $\frac{07}{4}$ $\frac{16}{4}$ $\frac{03}{4}$ $\frac{07}{4}$ → −.02 −.04 +.01 −.02

28- $\frac{42}{3}$ $\frac{28}{3}$ $\frac{13}{3}$ → −.14 +.09 +.04

all $\frac{141}{18}$ $\frac{89}{18}$ $\frac{69}{18}$

applied.

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Scale R InC 5142 C4 P.C.

Alt. corr. +0.5

MC 525 p14	Mean	Diff				Sc.1	Sc.2	curve	magn.	Sc.1	Sc.2		curve	magn.
8.45	8.43	−1.94	27	23	03	1.1				7.9	8.2	8.20 00	−1.99	6.41
9.30	9.18	−2.07	28	17	12	2.7				8.8	9.1	9.15 1 0	−2.07	7.08
10.95	10.80	−2.57	30	15	15	3.3				9.1	9.4	9.40 0 1 2	−2.14	7.26
11.75	11.55	−2.72	30	10	20	4.3				7.		9.85 0 1	−2.27	7.58
11.85	11.67	−2.65	32	13	18	5.2						10.60 0 0	−2.50	8.10
12.70	12.48	−2.93	33	12	22	5.2						10.55 1 0	−2.48	8.07
13.2	12.87	−3.01	3	1	3	5.6							−2.57	8.33
13.3	13.20	−2.90	3	2	1	5.7		2.78	8.78				−2.70	8.70
13.8	13.60	−2.95	2	0	2	6.5		2.52	9.32				−2.89	9.41
14.1	13.90	−2.82	2	0	2	7.5		2.75	10.05				−2.93	9.57
	13.95	−2.55	1	0	.	7.4		2.27	9.97				−2.90	9.50
	14.20	−2.57	2	2	.	7.6		2.22	10.12				−2.95	9.75
	14.25	−2.19	3	3	.	7.7		2.20	10.20	P.			−2.96	10.24
	115/4	65/4	50/4			8.5	8.80 00	1.95	10.75	8.8			−2.82	10.98
	−.29	+.16	+.12			8.8	9.15 1 0	1.85	11.00	9.2			−2.82	10.98
	145/5	35/5	100/5			9.1	9.35 0 1	1.78	11.13	9.3			−2.87	10.84
	−.29	+.07	+.20			7		1.56	11.36	9.8			−2.58	11.52?
	7/4	5/4	2/1					1.46	12.06	10.6			−2.36	11.94?
	−.18	+.12	+.20					1.41	12.81	10.8			curve magn.	
												12.40 0 0		
all	330/13	150/13	170/10					1.33	12.63	11.3		12.4 12.4	1.26	13.66
	−.25	+.12	+.17					1.38	12.28	10.9		12.90 1 1		rej.?
								1.29	12.99	11.7		12.8? 13.0?	1.29	14.19
								1.28	13.08	11.8		13.00 1 1		
								1.26	13.66	12.4		12.9 13.1	1.31	14.31
								1.21	14.07	12.9		13.60 0 0		
								1.29	14.19	12.9		13.6 13.6	1.50	15.10
								1.38	14.78	12.4		13.90 0 0		
								1.38	14.78	13.40		13.9 13.9	1.68	15.58
										13.4		14.00 1 1		
												13.9 14.1?	1.77	15.77
												14.4? ?	.	
												14.5? ?	.	
												?		
												11.15 2 0	1.35	12.50
												11.1 11.2		

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Scale R mc 5143 Pole R. Francis P. C.

Alt. corr. +.16

	Sc.1	Sc.2			Sc.1	Sc.2		Curve	Magn
a	1.2 1.5	1.5			8.1 8.4	8.1	8.25 − 1.80		6.45
b	3.1 3.4	3.4			9.1 9.4	9.4	9.40 − 2.14		7.26
c	5.9 6.2	6.2	Mean 2.72	Magn 8.92	7.	10.9 10.8?	10.85 − 2.56		8.29
d	4.5 4.8	4.8			7.	10.3 10.4	10.35 − 2.43		7.92
e	5.6 5.9	5.9				11.1 11.1	11.10 − 2.63	3	8.47
f	5.8 6.1	6.1	2.75	8.85		11.7	11.7 − 2.77		8.93
f²	6.7 7.0	7.0	P. 2.46	9.46		11.7	11.7 − 2.77		8.93
g	6.9 7.2	7.2	2.40	9.60		12.4	12.4 − 2.91		9.49
h	7.7 8.0	8.0	P. 2.19	10.19		13.1	13.1 − 2.97		10.13
n²	8.3 8.6	8.55	2.02	10.57		13.6	13.6 − 2.90		10.70
k	8.9 9.2	9.20	1.83	11.03		13.9?	13.9 − 2.75		11.15
l	8.9 9.2	9.20	1.83	11.03		13.9	13.9 − 2.75		11.15
m	8.9 9.2	9.4	9.30	1.80	11.10	12.8?	13.8 − 2.81		10.97
n	7.	9.9	9.9	1.63	11.53				
o'	7.	9.9	9.9	1.63	11.53				
o²		10.7	10.7	1.42	12.12				
p		11.4	11.4	1.31	12.71		Sc.2		
q		11.7	11.7	1.29	12.99	q	11.8		
r'		11.9	11.9	1.28	13.18	r'	12.2		
r²		12.7	12.7	1.26	13.96	r²	12.7		
s		13.1 12.9	13.00	1.30	14.30	s	13.0		
t		13.2 13.1	13.15	1.32	14.47				
u		13.4 13.3	13.35	1.37	14.72				
w		13.8 13.7	13.75	1.58	15.33				
x		13.9 13.8	13.85	1.63	15.48				
y		14.2? 14.1?	14.15	1.98	16.13				

Remeasured mt. Dec. 8, 1914

‡ Dec. of this star changed. See note Rtg. chart, + cover of mc 5078

Wrong star meas. first.

P.C. of m.

Double: br. meas.

Double: br. meas.

r' 12.2 Remeasured for discordance mt. Dec. 5, 1914. Recd.

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1914phae.proj.1046M

Thursday April 16, 1914

Series 225

Scale P mC 5145 9h50 +17°5 alt. corr. +17

	Sc 1		Sc 3			Sc 1	Sc 2			
1	5.4	5.7		5.7		7.	11.2	11.2	11.20 − 2.65	8.55
2	6.6	6.9		6.9	2.49	9.39	12.2	12.2	12.20 − 2.89	9.31
3	7.6	7.9	B	7.9	2.22	10.12	12.6	12.6	12.60 − 2.94	9.66
4	7.7	8.0	B.	8.0	2.19	10.19	13.2	13.1	13.15 − 2.97	10.18
5	8.5	8.8	B.	8.87	1.92	10.79	13.8	13.4	13.55 − 2.90	10.65
6	7.		9.7	9.7	1.68	11.38	14.4?	14.3?	14.35	
7			10.4	10.4	1.50	11.90	7.			
8			11.8	11.8	1.28	13.08				
9			12.2	12.2	1.26	13.46				
10			12.8	12.7	12.75	1.28	14.03			
11			12.9	12.9	12.90	1.30	14.20			
12			13.3	13.4	13.35	1.38	14.73			
13			12.6	13.7	13.65	1.51	15.16			
14			13.8	13.9	13.85	1.62	15.47			
15			14.5?	14.5?	14.50		~~1.52~~			

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Thursday April 16, 1914

Series 225

Scale R InC 5146 Pole

	Sc.1	Sc.2		InC 5152 P14	Mean
5	.	.			
6	.	.			
8	.	.			
9	.	.			
10	6.2 6.5		6.5	6.2	6.35
11	6.9 7.3		7.2	7.2	7.20
12	7.2 7.5	B.	7.5	7.6	7.55
13	7.9 8.2	8.1	8.15	8.20	8.18
14	8.3 8.6	8.6	8.60	8.55	8.72
15	8.8 9.1	9.2	9.15	9.30	9.22
16	7.	9.8	9.8	9.9	9.85
17		10.2	10.2	10.1	10.15
18		10.6	10.6	10.7	10.65
19		11.2	11.2	10.9	11.05
20		11.4	11.4	11.4	11.40
23		11.9	11.9	12.1	12.00
25		12.7	12.7	12.70	12.4 12.55
26		13.2	13.2	13.20	13.20 13.20
27		13.3	13.3	13.30	13.30 13.30
28		13.7	13.8	13.75	13.70 13.72
Blurred. 29	14.1?	14.3?	13.9	14.10	13.85 13.98
Scratched 30		14.1?	14.2?	14.15	14.30 14.20

12.50

	Sc.1	Sc.2	InC 5152 P14	Mean
	8.8			
	8.5 9.2	8.5	8.65	8.45 8.55
	8.9	9.5	9.35	9.30 9.32
	7.	10.9 11.0	10.95	10.95 10.95
	7.	11.7 11.6	11.65	11.75 11.70
		11.8 11.8	11.80	11.85 11.82
		12.6	12.6	12.70 12.65
		12.8	12.8	13.2 13.00
		13.4	13.4	13.3 13.35
		13.6	13.6	13.8 13.70
		13.9	13.9	14.1 14.00
		14.0	14.0	. .
		14.4?	14.4	. .
		14.5?	14.5	. .
		7.		

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1.20 Series 225

Scale P mc 5147 $10^h 50 + 12^\circ 5$

Alt. corr. +.16

Mean		Sc.1	Sc.2			Sc.1	Sc.2	P.C.	
8.55	1	1.9 27	2.2	✗		8.8 91	8.9	8.85 − 1.99	6.86
9.32	2	4.8 51	5.1	Curve	Magn	⊤	10.7 10.7	10.70 − 2.52	8.18
10.95	3	6.3 66	6.6	2.59	9.19		11.9 11.8	11.85 − 2.80	9.05
11.70	4	7.3 76	7.6	2.29	9.89		13.1 13.1	13.10 − 2.97	10.13
11.82	5	8.7 90	8.7	1.94	10.79		13.9 14.0	13.95 − 2.70	11.25
12.65	6	⊤	10.3	1.53	11.83		14.4?	14.4	
13.00	7		10.7	1.42	12.12		⊤		
13.35	8		11.6	1.30	12.90				
13.70	9		12.4	1.26	13.66				
14.00	10		12.9	1.29	14.19				
	11		13.3 13.3	1.36	14.66				
	12		13.7 13.7	1.55	15.25				
	13		13.7 13.7	1.55	15.25				
	14		13.7 13.7	1.55	15.25				
	15		13.9 13.9	1.68	15.58				

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1914phae.proj.1046M

Thursday, April 16, 1914

Series 225

Scale P Inc 5148 $11^h 10 + 17.3^s$ Alt. corr. +.18 P. C.

	Sc.1	Sc.2				Sc.1	Sc.2		
1	4.7 (5.0)		5.0	Curve	Magn	7.	10.4	10.4	10.40 - 2.45 7.95
2	5.9 (6.7)		6.2	2.72	8.92		11.4	11.7	11.55 - 2.73 8.82
3	7.2 (7.5)	B.	7.5	2.32	9.82		12.6	12.7	12.65 - 2.94 9.71
4	8.3 (8.6)	8.6	8.60	2.01	10.61		13.7	13.6	13.65 - 2.89 10.76
5	7.	9.8	9.8	1.66	11.46		14.3	14.1?	14.20 - 2.45 11.75
6		10.3	10.3	1.53	11.83		7	7	G =
7		10.9	10.9	1.39	12.29				
8		11.3	11.3	1.32	12.62				
9		11.8	11.8	1.28	13.08				
10		12.3	12.3	1.26	13.56				
11		12.8	12.8	12.80	1.28	14.08			
12		13.4	13.6	13.50	1.41	14.91			
13		13.7	13.7	13.70	1.55	15.25			
14		13.8	13.7	13.75	1.59	15.34			
15		13.9	13.9	13.90	1.68	15.58			

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1914phae.proj.1046M

Thursday April 16, 1914

Series 225 — Images elongated

Scale R — 1mc 5148* — 10h50 + 17°5 — Abb. corr. +.18

	Sc.1	Sc.2		Curves	Magn.	Sc.1	Sc.2		
7.95	1	5.6 5.9		5.9		7.	11.1	11.2	11.15 - 2.65 8.50
8.82	2	6.6 6.9		6.9	2.49		12.1	12.1	12.10 - 2.86 9.24
9.71	3	7.7 8.0	B.	8.0	2.19	10.19	13.4	13.3	13.35 - 2.95 10.40
10.76	4	8.8 9.1	9.1	9.10	1.86 ~~2.35~~	10.96 ~~11.45~~	13.9	13.8	13.80 - 2.81 10.99
11.75	5	8.8 9.1	9.0	9.05	1.88 ~~2.38~~	10.88 ~~11.43~~	14.1?	14.1?	14.10 - 2.59 11.51?
	6	7.	10.4	10.4	1.50	11.90	14.4?		14.4
	7		10.7	10.7	1.82	12.62	7.		
	8		10.7	10.7	1.82	12.62			
	9		11.6	11.6	1.30	12.90			
	10		12.3	12.1	12.20	1.26 13.46			
	11		12.5	12.6	12.55	1.26 13.81			
	12		12.8	12.9	12.85	1.28 14.13			
	13		13.5	13.4	13.45	1.39 14.84			
	14		13.8	13.8	13.80	1.61 15.41			
	15		14.2?	14.1?	14.15	1.90 16.05?			
	16								
	17								

* This plate was measured ~~2 minutes~~ before 1mc 5149 but was recorded on this page by mistake.

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1914phae.proj.1046M

Thursday, April 16, 1914

Series 225

Scale R. 1mC 5150 11h10 + 12.5 Abt cor. +.15 PC.

	Sc.1	Sc.2				Sc.1	Sc.2			
1	1.0 1.3		1.3			7.9 8.2	8.4	8.30	-.82	6.48
2	5.4 5.7		5.7	Comes	Magn	7.	10.9	10.90	-2.59	8.31
3	5.8 6.1		6.1	2.75	8.85		11.5 11.6	11.55	-2.73	8.82
4	6.8 7.1	B.	7.1	2.43	9.53		12.8 12.7	12.75	-2.96	9.79
5	7.9 8.2	8.1	8.15	2.14	10.29		13.7 13.6	13.65	-2.89	10.76
6	7.	9.9	9.9	1.63	11.53		13.9	13.9	-2.75	11.15
7	7.	10.3	10.3	1.52	11.82		13.9	13.9	-2.75	11.15
8		10.9	10.9	1.39	12.29		7.			
9		11.7	11.7	1.29	12.99					
10		11.9	11.9	1.28	13.18					
11		12.7 12.4	12.55	1.26	13.81					
12		13.2 13.1	13.15	1.32	14.47					
13		13.5 13.5	13.50	1.41	14.91					
14		13.7 13.7	13.70	1.55	15.25					
15		13.9 13.8	13.85	1.62	15.47					

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1914phae.proj.1046M

Thursday. April 16, 1914

Series 225

Scale R InC 5|5' $11^h30 + 12°5$ Abb. corr. +15 P.C.

	Sc.1		Sc.2				Sc.1	Sc.2		
1	4.1	4.4		4.4			7.	10.4	10.5	10.45 - 2.45 8.00
2	5.3	5.6		5.6	Curve	Magn.		10.9	11.2	11.05 - 2.61 8.44
3	6.8	7.1		7.1	2.43	9.53		12.8	12.7	12.75 - 2.96 9.79
4	7.7	8.0	B.	8.0	2.19	10.19		13.7	13.7	13.70 - 2.85 10.85
5	7.8	8.1	B.	8.1	2.17	10.27		13.7	13.9	13.80 - 2.80 11.00
6	9.1	9.4	9.7	9.55	1.72	11.27		14.4	14.5	14.45
7	7.		10.3	10.3	1.52	11.82		7.	7	
8			11.1	11.1	1.35	12.45				
9			11.8	11.8	1.29	13.09				
10			12.2	12.2	1.26	13.46				
11			12.8	12.9	12.85	1.28 14.13				
12			13.2	13.2	13.20	1.33 14.53				
13			13.7	13.6	13.65	1.51 15.16				
14			13.8	13.9	13.85	1.62 15.47				
15			13.8	13.9	13.85	1.62 15.47				

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Thursday, April 16, 1914

Series 225

Scan R	Inc 5152		Pole		P.C.		
	Sc.1	Sc.2			Sc.1	Sc.2	
5	.				8.2 8.5	8.4	8.45
6	.				8.9 9.2	9.4	9.30
8	.				7.	10.9 11.0	10.95
9	.					11.8 11.7	11.75
10	5.9 6.7		6.2	27+		11.8 11.9	11.85
11	6.9 7.2		7.2			12.7 12.7	12.70
12	7.3 7.6	B.	7.6			13.2	13.2
13	7.9 8.2	8.2	8.20			13.3	13.3
14	8.6 8.9	8.8	8.85			13.8	13.8
15	8.9 9.2	9.4	9.30			14.1	14.1
16	7.	9.9	9.9			7	
17		10.1	10.1				
18		10.7	10.7				
19		10.9	10.9				
20		11.4	11.4				
23		12.1	12.1				
25		12.4	12.4				
26		13.2	13.2	13.20			
27		13.3	13.3	13.30			
28		13.7	13.7	13.70			
29		13.8	13.9	13.85			
3.05 30		14.3?	14.3?	14.30			

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Wednesday April 22, 1914

11.36

Series 58

Scale R Nde. 2973 Pole P.b.

	Sc.1.	Sc.2.		MC 2978 P.19	MO 2954 P.24	Mean	Diff.	Sc.1.	Sc.2.		MC 2978	MC 2954	
5	X.							8.7 90	8.7		8.88	9.00	8.10 5
6	.							10.5	10.6		10.55	10.25	10.10 6
8	.							12.2	12.8 2		12.20	11.60	11.40 8
9	.							12.9	12.9		12.90	12.85	12.75 9
10	7.2 7.5		B	7.5	7.5	7.0	7.33	7.2	179	13.1	13.1	13.10	13.10 13.20 10
11	7.8 8.1		B	8.1	8.1	8.1	8.10	7.8	1.45	13.7		13.7	13.8 13.80 11
12	8.1 8.4		8.3	8.35	8.45	8.45	8.42	8.	144	13.9		13.9	14.0 14.2 12
13	8.9 9.2		9.2	9.20	9.15	9.20	9.18	8.9	1.12				
14			10.1	10.1	9.6	9.7	9.80		0.85				
15			10.7	10.7	10.4	10.4	10.50		0.58	5	8.64 5	−2.18 6	20 35 50
16			10.8	10.8	10.7	10.6	10.70		0.70	6	10.30	−3.19	25 05 20
17	11.2	11.3	11.2	11.25	10.90	10.90	11.02		0.61	8	11.80	−3.57	40 00 40
18	11.7	11.9	11.8	11.80	11.80	11.80	11.80		0.26	9	12.83	−4.00	07 02 08
19	12.3	12.1	12.3	12.35	12.25	12.25	12.28		0.14	10	13.13	−4.11	03 03 28 28 07
20	12.8	12.7	12.8	12.75	12.80	12.75	12.77		−0.04	11	13.77	−4.22	1 0 0
23	13.6	13.7	13.6	13.65	13.65	13.45	13.58		−0.24	12	14.03	−4.17	1 0 2
25	14.3?	14.2?		14.25	13.95	14.30	14.17		−0.30				
26					14.00		14.00		+0.33				

92/4 = +.23 32/4 = +.08 123/4 = −.31

45/5 = +.09 0/5 = .00 35/5 = −.07

23/3 = −.08 03/3 = −.01 9/3 = +.09

58/6 = +.10 30/6 = −.05 37/6 = −.06

69/7 = +.10 29/7 = +.04 114/7 = +.16

96/7 = −.14

copied

15/1 = +.08 15/3 = +.05 15/4 = −.05 0/2 = .00

all 118/13 = +.09 45/14 = −.03 72/136 = −.05

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Wednesday, April 22, 1914

Series 58 lapsed

Scale R. mc 2974 Nova Gem. No. 2.. Alt. corr. +.22

		Sc.1	Sc.2		Mean	Curve	Magn	Sc.1	Sc.2		Mean	Curve	Magn
Too far from centre	k	.	.				d	8.7	8.9	8.9	8.9.08	-2.48	6.52
	l	B.					B	8.7			8.95	-2.45	6.50
Too far from centre	m	.	.				d Too far from centre	.			.		.
" " " "	n	3.8 2	.				d	7.	10.7	10.8	10.75	-3.31	7.44
" " " "	o	.	.				d		11.2	10.9	11.05	-3.41	7.64
" " " "	p	.	.				d		11.8	11.8	11.80	-3.68	8.12
	q	5.3 5.6			5.6				11.8		11.8	-3.68	8.12
	r	6.2 6.5			6.5	2.06	8.56		12.2		12.2	-3.79	8.41
	s	6.5 6.8			6.8	1.93	8.73		12.8		12.8	-3.96	8.84
	s'	6.3 6.6			6.6	2.01	8.61		12.6		12.6	-3.90	8.70
	t	6.7 7.0			7.0	1.86	8.86		13.2		13.2	-4.06	9.14
Too far from centre	t^2	.	.		.		d		13.7		13.7	-4.17	9.53
	u	7.3 7.6		B.	7.6	1.59	9.19		13.8		13.8	-4.19	9.61
	w	8.3 8.6		8.2	8.43	1.36	9.79		14.1		14.1	-4.24	9.86
	x	7		9.6	9.6	0.95	10.55		7.				
	y			9.2	9.2	1.10	10.30						
	z			9.1	9.1	1.12	10.22						
	α			10.3	10.3	0.72	11.02 Star image		Star image				
	β			10.8	10.8	0.55	11.35 θ		13.8	13.9	13.85	-4.19 -0.24	9.66 13.61
	γ			10.9	10.9	0.52	11.42 κ		7.	7.			
	δ			11.8	11.8	0.25	12.05 λ		7.				
	ε			12.7	12.7	0.00	12.70						
	ε^2			13.3	13.3	-0.15	13.15						
	ε^3		13.2	13.2	12.9	-0.10	13.00						
	ζ			13.6	13.6	-0.20	13.40						
	ζ^2			13.7	13.8	-0.22	13.58						
	η			13.8	13.6	-0.21	13.49						
(4" out) Too near	η^2			13.9	14.0 13.9	-0.26	13.69						

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Series 58 Copied on sheets.

Scale P M C 2975 R Lyncis Alt. corr. +21 P.C.

		Sc.1	Sc.2			Sc.1	Sc.2			
Too bright	a	1.0 ~~1.3~~ ?		1.3 ?		8.6 ~~8.9~~	8.8		8.85 - 2.34	6.51
Too far from centre	b	.		.		.			.	.
	c	.		.	Double star; R. meas.		11.9	12.2	12.05 - 3.72	8.33
	d	.		.		7.	11.1	11.1	11.10 - 3.48	7.62
	e	5.7 ~~6.0~~		6.0	Mean		12.0	11.8	11.90 - 3.59	8.31
	f	6.4 ~~6.1~~		6.7	1.99	8.69	12.9	12.9	12.90 - 3.99	8.91
Too far from centre	f2	.		.	.	.	13.4	13.4	13.40 - 4.10	9.30
	g	7.7 ~~8.0~~	B.	8.0	1.50	9.50	13.8		13.8 - 4.19	9.61
	g'	7.9 ~~8.2~~	8.1	8.15	1.44	9.59	14.1 ?		14.1 - 4.24	9.86 ?
	h2	8.8 ~~9.1~~	8.9	9.00	1.16	10.16	7.			
	k	7.	9.7	9.7	0.93	10.63				
	l	7	10.3	10.3	0.72	11.02				
	m		9.9	9.9	0.85	10.75				
	n		11.1	11.1	0.46	11.56				
	o'		10.9	11.1	11.00	0.49	11.49			
	o2		11.8	11.9	11.85	0.22	12.07			
	p		12.8	12.6	12.70	0.00	12.70			
	q		13.3	13.1	13.20	- 0.12 ~~0.38~~	13.08			
	r'		13.8	13.9	13.85	- 0.23	13.62			
	r2		13.9	14.2 ?	14.05	- 0.28	13.77 ?			
	s		7.	7.						
Defect?	t		14.3 ?	14.3 ?	14.30	- 0.31	~~14.13~~ 13.99 ?			
*	u		7.	7.						
	w									
	x									
	y									

Rgnt. Defect ?

* Des. of this star has been changed. See notes on Pkg. chart + cover of M C 5072.

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1914phae.proj.1046M

Wednesday April 22, 1914

Series 58 Yerkes. 20 test pict

Scale R mc. 2977 977 Alt. corr. +.14 P C

	Sc.1	Sc.2	Mean	Curve	Magn.	Sc.1	Sc.2		
a	6.8 7.1		7.1	1.63	8.93	7	13.3	13.2	13.25 - 4.08 9.17
c	7.7 8.0	B.	8.0	1.50	9.50		13.7	13.7	13.70 - 4.16 9.54
f	8.2 8.5	8.3	8.40	1.37	9.77		14.1?	14.2?	14.15 - 4.25 9.90
d	8.2 8.5	8.4	8.45	1.36	9.81		14.0	13.9	13.95 - 4.21 9.74
β	8.4 8.7	8.7	8.70	1.27	9.97		4	4	
d	8.6 8.9	8.9	8.90	1.20	10.10				
e	7.	9.7	9.7	0.91	10.61				
f		10.3	10.3	0.72	11.02				
g		10.8	10.8	0.55	11.35				
h		11.2	11.2	0.42	11.62				
h'		11.4	11.4	0.38	11.78				
h^2		11.9	11.9	0.22	12.12				
k		12.5	12.5	0.04	12.54				
Wrong star first m		12.4 12.3	12.5	12.45	0.07	12.52			
l		12.8	12.7	12.75	- 0.01	12.74			
Wrong star first n		13.3 13.1	13.3	13.30	- 0.14	13.44			
o		13.7	13.7	13.70	- 0.21	13.91			
p		13.9	13.9	13.90	- 0.25	13.65			
q		13.9	14.0	13.95	- 0.27	13.68			

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Series 58

Scale R MC 2978 Pole

	Sc.1	Sc.2
5		
6		
8		
9		
10	7.2 (7.5)	
11	7.8 (8.1)	B
12	8.3 (8.6)	8.3
13	8.8 (9.1)	9.2
14	H	9.6
15		10.4
16		10.7
17		10.9
18		11.8
19		12.3
20		12.9
23		13.6
25		13.9
26		13.9
27		H
28		
29		
30		

	MC 2984 P-24	Mean	Diff.
7.5	7.0	7.25	1.77
8.1	8.1	8.10	1.45
8.45	8.45	8.45	1.41
9.15	9.20	9.18	1.12
9.6	9.7	9.65	1.00
10.4	10.4	10.40	0.68
10.7	10.6	10.65	0.75
10.90	10.90	10.90	0.73
11.80	11.80	11.80	0.26
12.25	12.25	12.25	0.17
12.80	12.75	12.78	-0.05
13.65	13.45	13.55	-0.21
13.95	14.30	14.12	-0.25
14.00	.	14.00	+0.33

Sc. Center 1.5

P. 6.

Sc.1	Sc.2	MC 2984 P-24	Mean
8.6 (8.9)	9.1	9.00	8.55
H	10.2	10.25	10.10	10.18
H	11.8	11.8	11.80	11.40	11.60
12.4	12.9	12.85	12.75	12.80
13.1	13.1	13.10	13.70	13.15
13.8		13.8	13.80	12.80
13.9 H		14.0	14.2	14.10

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Series 38 Rejected

Scale R In C 2979* Praesepe Alt. corr. +19

	Sc.1	Sc.2			Sc.1	Sc.2	P.C. Mean	Curve.	Magn.
a	B.				8.1 8.4	8.2	8.30	-.205	6.25
b	1.9 2.2		2.2		8.9 9.2	9.2	9.20	-.258	6.62
d	2.2 2.5		2.5			9.3	9.2	9.25	-.259	6.66
g	3.9 4.2		4.2			10.2	10.2	10.20	-.309	7.11
h^2	3.9 4.2		4.2			10.2	10.3	10.25	-.310	7.15
h^3	4.9 5.2		5.2			11.3	11.2	11.25	-.349	7.76
k^4	6.2 6.5		6.5	2.06	8.56	11.9		11.9	-.369	8.21
k^5	6.8 7.1		7.1	1.83	8.93	13.0		13.0	-.400	9.00
k^2	7.2 8.1		8.1	1.49	9.59	14.0		14.0	-.421	9.79
k^3	7.8	B.	7.8	1.60	9.40	13.4		13.4	-.410	9.30
n^1	8.0 8.3	8.1	8.20	1.42	9.62	14.0		14.0	-.420	9.80
n^2	8.2 8.5	8.4	8.45	1.35	9.80	14.2		14.2	-.426	9.94
o	8.5 8.8	8.8	8.80	1.21	10.01	14.1		14.1	-.425	9.85
r		8.9	8.9	1.19	10.09	?				
s		9.9	9.8	9.85	0.89	10.74				
t		10.6		10.6	0.61	11.21				
u		10.7		10.7	0.60	11.30				
w		10.6		10.6	0.62	11.22				
z		11.4		11.4	0.38	11.78				
α		12.3	12.1	12.20	0.12	12.32				
β		12.9	12.9	12.90	-0.05	12.85				
γ		13.3	13.5	13.40	-0.17	13.23				
δ		13.8	13.7	13.75	-0.21	13.54				
ε		14.1?	14.1?	14.10	-0.29	13.81				
ζ		14.2?	14.2?	14.20	-0.30	13.90				
η		7.	7.							
θ										
λ										

P.C.

Sc.1	Sc.2
5.1 5.4	7.
2.0 2.3	8.6 8.9
	11.1 11.0 11.05
	8.8 8.85

-3.40 -3.35

*Sequence for S Cancri too far from centre to measure

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Series 58

Scale R In c 2979 (80) S 116 d R Leonis Min. Copied

S Cancri Alt. cm. +.22

		Sc.1	Sc.2			Sc.1	Sc.2			
Plate	a	.	.					P. C.		
	b	.	.			7.8 (80)	7.6 (79)	B.		8.00 −.136 7.864
	c	.	.			.	.			. . .
	d	.	.			7.	9.9	10.0		9.95 − .299 9.651
	g	.	.			.	.	9.8		. . .
	f	.	.				9.8	9.8		9.80 − .289 9.511
	e	4.9 (5.2)		5.2			11.2	11.3		11.25 − .349 10.901
	h	5.2 (5.5)		5.5			11.7	11.8		11.75 − .366 11.384
	k	5.4 (5.7)		5.7			11.7			11.7 − .363 11.337
	a	5.9 (6.2)		6.2			12.8			12.8 − .398 12.402
	l	.	.	.			13.1			13.1 − .407 12.693
	m	6.9 (7.2)		7.2	1.80	9.00	13.7			13.7 − .417 13.283
	o	7.1 (7.4)	B.	7.4	1.71	9.11	13.9			13.9 − .420 13.480
	m	7.1 (7.4)	B.	7.4	1.71	9.11	13.3			13.3 − .409 12.891
	p	8.1 (8.4)	8.1	8.25	1.41	9.66	7.			
	q	8.9 (9.2)	9.3	9.25	1.09	10.34				
	n	7.	9.8	9.8	0.89	10.69				
	n'	7.	9.9	10.1 10.00	0.82	10.82				
	c		9.7	9.7	0.86	10.56				
	s'		10.8	10.8	0.55	11.35				
	t		11.8 (12.1)	11.8	0.24	12.04				
	u		12.9	12.9	−0.05	12.85				
	w		13.1	12.9 13.00	−0.08	12.92				
	α		13.3	13.3 13.30	−0.13	13.17		14.0	14.0 14.00	−.379 −.422 13.578
	x		13.1	13.2 13.15	−0.11	13.04				
	y		13.8	13.6 13.70	−0.21	13.49				
	z		13.9	14.0 13.95	−0.28	13.67				
	β		13.9	13.9 13.90	−0.25	13.65				

-3.40 7.65

-2.85 6.50

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Wednesday April 22, 1914

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Series 58

Scale R mC 2982 G.6.1712. 112V. Alt. corr. +.16 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		
1	4.9 ~~5.7~~		5.7			7.	10.6	10.7	10.65 - 3.26 ~~7.39~~
2	5.4 ~~5.7~~		5.7				11.1	10.9	11.00 - 3.40 ~~7.60~~
3	6.1 ~~6.4~~		6.4	~~2.10~~			11.9	12.1	12.00 - 3.72 ~~8.28~~
4	7.1 ~~7.4~~		7.4				13.2	13.2	13.20 - 4.06 ~~9.14~~
5	7.7 ~~8.0~~	B.	8.0	1.50 ~~2.00~~	9.50 ~~10.00~~		14.0	13.9	13.95 - 4.20 ~~9.75~~
6	8.8 ~~9.1~~	9.2	9.15	1.11	10.26				
7	7.	10.7	10.7	0.60	11.30				
8		11.1	11.1	0.45	11.55				
9		11.5	11.5	0.34	11.84				
10		12.3	12.3	0.10	12.40				
11		12.4	12.4	12.40	0.08	12.48			
12		12.8	12.5	12.65	0.01	12.66			
13		13.7	13.4	13.55	- 0.19	13.74			
14	13.4	13.4	13.8	13.53	- 0.19	13.72			
15		13.8	13.7	13.75	- 0.22	~~13.97~~			

For No. 4 the original curve had been crossed out, and not re-drawn. As there is a magnitude depending on P.C. no further reduction of No. 4 need be made.

H.S.L. Nov. 7, 1914.

(5m out)

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Wednesday, April 22, 1914

Series 58 Isolated

Scale R MC 2983 T Hydrae, 114V. Obs. anc. -.06

	Sc.1	Sc.2				Sc.1	Sc.2			
a						8.9 9.2	9.2		9.20 - 2.58	6.62
b	4.6 4.9		4.9			7.	10.7	10.5	10.60 - 3.25	7.35
d							11.4	11.6	11.50 - 3.58	7.92
e							12.3	11.9	12.3	12.17 - 3.78	8.39
f	6.5 6.8		6.8				12.6	12.7	12.65 - 3.90	8.75
c							12.7		12.7 - 3.91	8.79
h	7.2 7.5	13.	7.5	1.50	9.50		12.8		12.8 - 3.98	8.82
g	7.7 8.0	13.	8.0	0.00	10.00		13.6		13.6 - 4.14	9.46
i	8.3 8.6	8.7	8.65	1.30	9.95		7.			f:
k	8.7 9.0	9.2	9.10	1.12	10.22					
l	9.0 9.3	9.4	9.35	1.03	10.38					
m	7.	10.3	10.3	0.72	11.02					
o		10.7	10.7	0.60	11.30					
p		11.7	11.7	11.70	0.29	11.99				
q		12.3	12.4	12.35	0.08	12.43				
r		13.1	13.2	13.15	-0.11	13.26				
s		13.3	13.3	13.30	-0.14	13.44				
Defect meas. Var.		7 13.8	7.							
t		14.1?	14.2	14.05	-0.29	14.34				
u		7 14.1?	7.			f:				
w			7.			f:				
x			7.			f:				
y			7			f:				
z										
α										

Reject measures of faint stars: see remarks on MC 4379 as to wrong identification of faint stars.

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1914phae.proj.1046M

Wednesday April 22. 1914

Series 58

Scale R Nm C 2984 Pole

	Sc.1	Sc.2		Sc.1	Sc.2	P. C.
5				7.8 8.1	7.8 8.1	
6				7.		B. 8.10
8						10.1 10.1 10.10
9						11.4 11.4 11.40
10	6.7 6.6	B.	7.0			12.7 12.8 12.75
11	7.8 8.1	B	8.1			13.2 13.2 13.20
12	8.2 8.5	8.4	8.45			13.8 13.8 13.80
13	8.9 9.2	9.2	9.20			14.2? 14.2
14	7.	9.7	9.7			7.
15		10.4	10.4			
16		10.6	10.6			
17		10.9	10.9 10.90			
18		11.8	11.8 11.80			
19		12.2	12.3 12.25			
20		12.8	12.7 12.75			
22		13.4	13.5 13.45			
25		14.3?	14.3? 14.30			
26		7.	7			
27						
27						

5.36

~~40~~

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1914phae.proj.1046M

Monday, June 1, 1914

2.30 m.c. T' plate for δ Ursae Majoris

Scale R m.c. 1922 Pole alt +0.03

	Sc.1	Sc.2		B.	Mean	Diff
5						
6						
8	~~6.7~~					
9						
10	8.1 8.4			8.6	8.50 8.1	0.52
11	8.7 9.0			9.3	9.15 9.1	0.40
12	9.0 9.3			9.3	9.30 9.0	0.56
13	7.	10.2	10.1	10.15		0.15
14		10.6	10.5	10.55		0.10
15		10.9	10.9	10.90		0.18
16		11.2	11.3	11.30		0.10
17		11.5	11.5	11.50		0.13
18 Defective		12.7	12.6	12.65		-0.59
19		12.3	12.4	12.35		0.07
20		12.7	12.9	12.80		-0.07
23		13.3	13.3	13.30		0.04
25		13.7	13.4	13.85		0.02
26		13.8	13.9	13.85		0.48
27		7.	7.			
28						

Sc.1	Sc.2	P.C.	
7.			
	9.9	9.90	-3.41
	10.5	10.55	-3.44
	12.4	12.30	-4.07
	13.1	13.50	-4.17
	13.3 13.4	13.35	-4.33
	13.9	13.90	-4.35
	14.0	13.90	-4.04
	7.		

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1914phae.proj.1046M

Monday, June 1, 1914

mc. T' plate.

Scale R. mc 1922 S Tirsae Magnis Alt. + .03 P.C.

	Sc.1		Sc.2				Sc.1	Sc.2			
										Mean	Magn
a	5.7	5.7	6.00				7.	11.3	11.21	11.215 - 3.71	7.54
f	6.4	6.4	6.70					11.9	11.8	11.85 - 3.88	7.97
c	6.9	6.9	7.20					12.6	12.8	12.70 - 4.10	8.60
d	Reject-too far from centre	6.9						12.9	12.8	12.80 - 4.12	8.68
e	5.8	6.1	B.		Curve	Magn		12.3	12.1	12.20 - 3.98	8.22
f	8.1	8.4	8.1	8.25	0.57	8.82		13.4	13.4	13.40 - 4.21	9.19
g'	8.4	8.7	8.6	8.65	0.50	9.15		13.7	13.7	13.70 - 4.26	8.44
g2	Reject-too far from centre	8.4	8.6					14.1	13.9	14.00 - 4.29	9.71 ?
g3	8.9	9.2	9.4					14.0	14.1	14.05 - 4.29	9.76 ?
h	7.		9.8	9.8	9.80	0.29	10.09	7.	7.		9
k			10.8	11.0	10.90	0.65	11.55				
l	Reject-too far from centre.		11.9	12.0							
m			11.8	11.6	11.70	0.07	11.77				
m			11.8	11.7	11.75	0.07	11.82				
o	Through mist spot		12.7	12.8	12.75	0.00	12.75				
p			12.8	12.9	12.85	0.00	12.85				
p'			12.9	13.1	13.00	0.00	13.00				
q			13.7	13.7	13.70	0.03	13.73				
r			13.7	13.9	13.80	0.04	13.84				
s			7.				9				
t											
w											
var.	7.		11.7	11.3	11.47 11.4	0.09	11.56	7.	7.		

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1914phae.proj.1046M

Friday June 5, 1914

10.15 Series 81

Scale R. mc 3278 Pole

	Sc.1	Sc.2		MC 3258, p.31	MC 3259, p. 33	Mean	Diff.		Sc.1	Sc.2		MC 3258	MC 3259	Mean		
5									8.2	8.4		8.45	8.75	8.70	8.63	12 07
6									7.	9.4	+1.3	9.5	9.45	9.80	9.53	9.59 14 21 06
8												11.7	11.6	11.65	11.50	11.40	11.52 13 02 12
9												12.7	12.6	12.65	12.55	12.50	12.57 08 02 07
10	6.5	6.8	B.	6.8	7.2	6.6	6.87	⊥ 3 3	2.15	13.0	13.2	13.10	13.05	12.90	13.02 08 03 12	
11	7.7	8.0	B.	8.0	8.2	8.1	8.10	⊥ 1 0	1.45		13.8	13.8	13.85	13.8	13.82 02 03 02	
12	8.3	8.6	8.3	8.45	8.80	8.20	8.48	03 32 28	1.38		13.9	13.9	13.7	14.1	13.90 0 2 2	
13	7.		9.4	9.4	8.70	9.4	9.17	23 17 23	1.13		7.	F	F	14.0	14.0	A
14			9.7	9.7	10.1	9.9	9.90	2 2 0	0.75							F
15			10.5	10.5	10.7	10.4	10.53	0 2 1	0.55			R.C Diff.				
16			10.8	10.8	11.1	10.9	10.93	⊥ 2 0	0.47			5 – 2.14				
17			11.2	11.2	11.20	11.1	11.2	11.17 03 07 03	0.50 46			6 – 2.48				
18			11.8	11.9	11.85	11.75	11.9	11.83 02 05 07	0.23			8 – 3.29				
19			12.3	12.5	12.40	12.20	12.35	12.32 08 12 03	0.10			9 – 3.74				
20			12.9	12.8	12.85	12.70	12.65	12.73 12 03 05	0.00			10 – 4.00				
23			13.4	13.4	13.40	13.25	13.45	13.37 03 12 08	-0.03			11 – 4.27				
25			14.1	14.2?	14.15?	13.85	13.95	13.98 17 13 03	-0.11			12 – 4.04				
26			14.2	14.0	14.10?		14.05?	14.08 02 03	0.25			13 – 3.70				
27			14.3	14.3?	14.30?		14.30	14.30 A A	0.39							
28			7.	7.			F									
29																

Strong Sc. near Pole

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1914phae.proj.1046M

Friday, June 5, 1914

Series 81 helped

Scale R. In C. 3279 122 J - Z Draconis.

	Sc 1	Sc. 2		curve	Mogu.	Sc. 1	Sc. 2		curve	Mogu.
				alt. corr. +.16						
a	5.7 6.0		6.0	+.58	.	F.	13.4	13.4	13.40	-.09 9.31
Too far from center b	.				d		13.9	13.8	13.85	-4.18 9.67
c	7.8 8.1	B.	8.1	1.58 4	9.68 4		13.9	13.8	13.85	-4.18 9.67
d	8.8 9.1	9.3	9.20	1.09	10.29		14.4 3	14.4 ?	14.40	-4.20 2 10.20 2
e	F.	10.3	10.3	0.69	10.99		F.	F.	F	
f	.						F.		F	
f'		11.2	11.2	0.40	11.60					
g		11.9	11.9	0.20	12.10					
h	.									
k		13.0	13.1	13.05	-0.00 3	13.05 2				
Defect almost sup.										
l' = l	.	~~13.2~~								
m' = m		13.5	13.4	13.45	-0.05	13.40				
m = n		13.7	13.7	13.70	-0.02	13.68				
o		13.7	14.0	13.90	0.00	13.90				
p		* ~~14.2~~ ~~13.3~~	14.3 ?	14.25	0.12	14.37				
Var. F.		10.1		10.1	0.67 75	10.77 85	F.			

Poor

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1914phae.proj.1046M

Friday, June 5, 1914

Series 81 Isolated

Scale R mC 3280 P. Com. Par. P. C.

alt. corr. +.18

	Sc.1	Sc.2	Curve Magn.			Sc.1	Sc.2	Curve Magn.
a	.	.				7.	11.4 11.6	11.50 −3.32 8.18
b	5.9 6.2	B.	6.2 5.9				11.8 11.9	11.85 −3.36 8.49
c	.	.					11.7 11.7	11.70 −3.40 8.30
d	.	.					12.8 12.7	12.75 −3.84 8.91
e	.	.					. .	
f	6.3 6.6	B.	6.3 6				12.6 12.8	12.70 −3.83 8.87
g	.	.					12.7	12.7 −3.83 8.87
h	8.6 8.9	8.8	8.70 8 8.95	1.30 4 28	10.00 9 9	7.		F
k	.	.						
l	8.2 8.6	8.6	8.45 40	1.40 34	9.85 94			
m	8.9 9.2	9.2	9.05 20	1.14 09	10.19 2			
n	9.0 9.3	9.3	9.15 30	1.10 05	10.25 3			
o	7.	10.1	10.1	0.78 5	10.85			
p		10.6	10.6	0.59	11.19			
q		11.7 11.6	11.65	0.28	11.93			
r		11.8 11.7	11.75	0.24	11.99			
s		12.0 12.3	12.15	0.14	12.29			
t		12.9 13.1	13.00	−0.02	12.98			
w		13.8 13.8	13.80	−0.01	13.79			

Poor image.

Var. n. s.

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1914phae.proj.1046M

Friday, June 5, 1914

Series 81 Leopold

Scale R mc 3281 122 V - Z Draconis P.C.

alt. cor. +.16

	Sc.1	Sc.2		Curve.	Magn. DOK	Sc.1	Sc.2			
a	7.8 8.1	B.		8.1	1.54	9.64	7.	13.6	13.7	13.65	-4.14	9.51
b	8.7 9.0		8.9		8.95	1.18	10.13		14.2?	14.1	14.15?	-4.19	9.96?
c	7.		9.7	9.7	9.70	0.90	10.60		14.2?	14.3?	14.25?	-4.19	10.06?
d			10.4		10.4	0.65	11.05		7.	7.	8		
e			10.8		10.8	0.52	11.32						
f			10.9		10.9	0.48	11.38						
f'			11.3		11.3	0.36	11.66						
g			11.9		11.9	0.20	12.10						
h			12.6	12.4	12.50	0.05	12.55						
k			12.4	12.4	12.40	0.07	12.47						
l' = l			12.6	12.9	12.75	0.00	12.75						
m' = m			12.8	13.1	12.95	-0.02	12.93						
m = n			13.6	13.4	13.50	-0.05	13.45						
o			13.6	13.5	13.55	-0.04	13.51						
p.			13.9	13.8	13.85	0.00	13.85						
Var. 7.			10.1	10.2	10.15	0.66 74	10.81 99		7.				

Middle Limit

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1914phae.proj.1046M

Friday, June 5, 1914

Series 81

Scale R mc 3283 Pole P. C.

	Sc. 1	Sc. 2		Curve	Magn.	Sc. 1	Sc. 2		Curve	Magn.
5						8.5 (8.8)	8.7	8.75	-2.17	6.58
6						7.	9.8	9.80	-2.55	7.25
8							11.4	11.50	-3.32	8.18
9							12.7	12.55	-3.76	8.79
10	6.9 (7.2)	B.	7.2a	1.95	9.15		12.2	13.05	-3.95	9.10
11	7.9 (8.2)	B.	8.2a	1.50	9.70	13.9	13.8	13.85	-4.18	9.67
12	8.6 (8.9)	8.7	8.80	1.26	10.06	13.7		13.7	-4.15	9.55
13	8.4 (8.7)	* 8.7	8.70	1.30	10.00	7.		7.		
14	7.	10.1	10.1a	0.75	10.85					
15		10.7	10.7a	0.55	11.25					
16		11.1	11.1a	0.42	11.52					
17		11.1	11.1a	0.42	11.52					
18		11.8	11.7 11.75	0.24	11.99					
19		12.2	12.2 12.20	0.08	12.28					
20		12.7	12.7 12.70	0.00	12.70					
23		13.3	13.2 13.25	-0.05	13.20					
25		13.8	13.9 13.85	0.00	13.85					
26		7.	7.							
27										
28										

* mistake of a unit

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1914phae.proj.1046M

Friday June 5, 1914

Series 81 Leopold

Scale R Mc 3286 S Ursæ Maj. 129 V. P.C.

Abt. corr. +.20

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
a	3.4	3.7		3.4		7.	9.9	9.9	9.90	-2.60 7.30
b	4.3	4.6		4.3			10.7	10.7	10.70	-2.96 7.74
c	5.4	5.7		5.4			11.3	11.4	11.35	-3.24 8.11
d	.	.					11.7	11.8	11.75	-3.42 8.33
e	.	.					10.7	10.7	10.70	-2.96 7.74
f	6.4	6.7		6.7	2.22	8.72	12.5		12.5	-3.74 8.76
g	7.2	7.5	R.	7.2	1.95	9.15	13.2		13.2	-4.02 9.18
g1	.	.					13.4		13.4	-4.08 9.32
g2	.	.					13.9		13.9	-4.18 9.72
g3	.	.					13.9		13.9	-4.18 9.72
g4	.	.								
k	7.	9.8	9.9	9.85	0.84	10.69				
l		9.6	9.4	9.50	0.99	10.49				
m		10.5		10.5	0.61	11.11				
n		10.9		10.9	0.49	10.58				
o		11.9		11.9	0.20	12.10				
p		11.9		11.9	0.20	12.10				
p'		11.9	12.2	12.05	0.17	12.22				
q		12.8	12.8	12.80	0.00	12.80				
r		12.9	12.9	12.90	-0.01	12.89				
s		13.7	13.8	13.75	-0.02	13.73				
t		13.9	13.8	13.85	0.00	13.85				
* u		~~14.2~~	~~14.3~~	~~14.25~~	~~0.12~~	~~14.37~~				
w		7.	7.	F		F?				
Var.		13.0	13.1	13.05	-0.03	13.02	7.	7.		

* Identification of u very doubtful. Reject observation.

* mistake of unit.

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1914phae.proj.1046M

Friday, June 5, 1914

Series 81

Scale R mc 3289 Pole P E.

	Sc.1	Sc.2		Curve	Magn.
5					
6					
8					
9					
10	6.6 6.3	B.	6.6a	2.23	8.83
11	7.8 8.1	B.	8.1a	1.67	9.64
12	8.2 8.5	8.0 8.1	8.20	1.50	9.70
13	7.	9.4	9.4a	1.01	10.41
14		9.9	9.9a	0.84	10.74
15		10.4	10.4a	0.65	11.05
16		10.9	10.9a	0.49	11.39
17		11.2	11.2a	0.40	11.60
18		11.9	11.9a	0.20	12.10
19		12.4 12.3	12.35	0.09	12.44
20		12.7 12.6	12.65	0.01	12.66
23		13.5 13.4	13.45	−0.05	13.40
25		14.0 13.9	13.95	0.01	13.96
26		14.1? 14.0	14.05	0.03	14.08
27		7. 14.0			

12.52

Sc.1	Sc.2		Curve	Magn.
8.7 8.4	8.6 8.5	8.70 ~~8.65~~	−2.16	6.54
7. 9.6	9.3 9.7	9.53	−2.47	7.06
	11.4 11.4	11.40	−3.28	8.12
	12.4 12.6	12.50	−3.73	8.77
	12.9 12.9	12.90	−3.90	9.00
	13.8	13.8a	−4.17	9.63
	14.1?	14.1a	−4.19	9.91
	14.0	14.0	−4.19	9.81
	7.	7.	7.	7.

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1914phae.proj.1046M

Tuesday
Monday June 8, 1914

9 50

Scale m

m D 3258

m D Series 79

Pole

	Sc.1		Sc.2						Sc.1		Sc.2		
				M.D.3263, p.39	M.D.3259, p.45	Mean		Diff.			M.D.3263	M.D.3269	
5	3.9	4.2 4.1	4.0	~~4.10~~ .05	~~4.0~~ 3.9	~~4.5~~ 4.4	4.12	07 22 28	37	7.	8.2	8.20	8.15
							~~4.20~~	~~10 20 30~~	~~39~~				
6	4.7	5.0 4.9	4.7	~~4.85~~ .0	~~4.70~~ .67	~~5.15~~ .0	4.96	16 29 44	.85		8.9	8.90	9.00
							~~5.00~~	~~15 30 45~~	2.11				
8	6.7	7.0 6.9	6.8	6.90 .85	7.15 .0	6.9	6.98	5 10 15 05	.8		9.9	9.90	9.95 F
								~~05 17 08~~	1.25				
9	7.		7.7	7.7	7.8	7.9	7.80	1 0 1	1.03	7.	7.	F	F
10	7.		7.8	7.8	7.90	8.2	7.97	17 07 23	1.05			Mean.	Diff.
11			8.3	8.3	8.70	8.80	8.60	30 10 20	0.95		5	8.28	08 08 17 -1.79
12			8.7	8.75	8.85	8.90	8.83	08 02 07	1.03		6	8.90	00 10 10 -1.79
13			9.1	9.10	9.25	9.30	9.22	12 03 08	1.08		8	9.92	02 03 . -1.69
14			9.3	9.30	9.80	9.90	9.67	37 13 23	0.98				
15			9.7	9.70	10.35 2	9.90	9.98	28 37 08	1.10				
16			9.9	9.90	10.35 2	F	10.12	22 23 .	1.28				
17			7.	F	10.4 2		10.40	. A .	1.23				
18					F								
19													
20													
23													
25													
26													
27													

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1914phae.proj.1046M

Tuesday, June 9, 1914

Copied.

HD Series 79

Scale 7m HD 3259 118 V R Leo Min P ξ.

alt. corr. +.20

	Sc.1	Sc.2				Sc.1	Sc.2			Curv. Magn.
1	5.9 6.1	5.9	6.0	Curve 1.65	Magn. 7.65	7	9.8	9.8	9.80 −1.69	8.11
2	7.	7.1	7.1	1.25	8.35		7.	7.		
3		7.8	7.8	1.10	8.90					
α		8.2	8.2	1.02	9.22					
β		8.7	8.6	8.65	0.99	9.64				
γ		8.9	8.9	8.90	0.99	9.89				
δ		9.7	9.7	9.70	1.08	10.78				
ε		9.8	9.7	9.75	1.10	10.86				
a		9.8	9.8	9.80	1.11	10.91				
f		9.8	9.8	9.80	1.11	10.91				
e		10.0	10.1?	10.05	1.16	11.21 2.				
d	10.1?	10.2?	9.9	10.07	1.17	11.24 2.				
Ident. correct? d'		10.1?	10.2?	10.15	1.21	11.36 2.				
d²		7.	7.	8.		F				
e										
Var. 7		9.2		9.2	1.01	10.21	7.		7.	

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Tuesday. June 9. 1914

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In D Series 79

Scale In In D 3260 122 V Z Draconis P C.

Alt. corr. +.16

	Sc. 1	Sc. 2			Curve. Magn.	Sc. 1	Sc. 2	
a	f.	8.1	8.1	8.10	1.014	9.14	f.	f.	ff
b		8.8	8.9	8.85	0.99	9.84			
c		9.2	9.3	9.25	1.01	10.26			
d		9.8	9.8	9.80	1.10	10.90			
e		9.9	9.9	9.90	1.12	11.02			
f		9.9	9.9	9.90	1.12	11.02			
f'		f.	f	ff	ff	ff			
Var.	f.	9.3	9.3	9.30	1.02	10.32			

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1914phae.proj.1046M

Tuesday, June 9, 1914

Cepheid

HD Series 79

Scale 1m HD 3261 12h 3m V Comae Ber. P.C.

alt. corr. +18

	Sc.1		Sc.2			Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
a	6.2	6.4	6.5	6.45		1.48	7.93	7.	9.9	10.0	9.95	-1.68 8.27
b	6.7	6.9	6.9	6.90		1.32	8.22	10.3?	7.	10.3?		~~1.64~~ ~~8.66~~
c	6.8	7.0	6.8	6.90		1.32	8.22	10.3?	10.4?	10.35		~~1.63~~ ~~8.72~~
e	7.		7.4	7.4		1.18	8.58	7.	7.			
d	7.		7.4	7.4		1.18	8.58					
f			7.3	7.4	7.35		1.20	8.55				
g			8.2		8.2		1.02	9.22				
i			8.6		8.6		1.00	9.60				
h			8.8	8.8	8.80		0.99	9.79				
l			8.8	8.8	8.80		0.99	9.79				
m			9.1	9.1	9.10		1.00	10.10				
n			9.2	9.3	9.25		1.04	10.29				
o			9.9	9.9	9.90		1.12	11.02				
p			10.0	10.2?	10.10		1.19	11.29?				
q			10.3?	10.4?	10.35		1.27	11.62?				
r			7.	7.								
s												

Var. m.s.

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1914phae.proj.1046M

Tuesday, June 9, 1914

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HD Series 79

Scale 4m HD 3262 1287 R.S. Tues. Maj. P.C.

alt. corr. + 20

		Sc.1	Sc.2			Curve	Magn.	Sc.1	Sc.3			Curve	Magn.
*	6.3	a	6.5 6.7	6.3	6.3	6.43	1.48	7.91	7.	9.8	9.8	9.80 -1.69	8.11
		b	7.	7.6		7.6	1.13	8.73		7.	7.		
		c		8.9		8.9	0.99	9.89					
		d		8.8	8.8	8.80	0.99	9.79					
		e		8.8	8.8	8.80	0.99	9.79					
		f		9.4	9.4	9.40	1.04	10.44					
Near defect.		g		9.6	9.3	9.45	1.04	10.49					
		h		9.9	9.9	9.90	1.12	11.02					
		K		~~10.1?~~	~~10.2?~~	~~10.30?~~	~~1.26~~	~~11.56?~~					

‡ Reject. Defect measured. G.F.M. June 23, 1914

* Omitted in reduction. Reject "H.S.L." Nov. 10, 1914 G.F.M.

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1914phae.proj.1046M

Tuesday, June 9, 1914

MD Series 79

Scale M MD 3263 Pole

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
5	3.7 ~~4.0~~ 3.9	B.	~~4.0~~ 3.9	~~2.90~~ 2.55	6.45	7.	8.2	8.20	-1.80	6.40
* 4.5 6	4.7 ~~5.0~~ 4.9	4.4 4.7	4.67 ~~4.70~~	2.23	6.90		8.8	8.80	-1.77	7.03
8	6.9 ~~7.2~~ 7.1	7.1	7.15°	1.25	8.35		9.9	10.0 9.95	-1.68	8.27
9	7.	7.8	7.8	1.09	8.89		7.	7.	F	F F
10		* 7 7.9	7.90	1.08	8.98					
11		8.7 8.7	8.70	0.99	9.69					
12		8.8 8.9	8.85	0.99	9.84					
13		* 9 9.3 9.2	9.25	1.01	10.26					
14		9.8 9.8	9.80	1.10	10.90					
15		10.3? 10.4?	10.35?	1.27	11.62?					
Defect? 16		10.3? 10.4?	10.35?	1.27	11.62?					
17		10.4? 7.	10.4?	1.31	11.71?					
18		7.	F		F					
Reject. Defect meas. 19		~~10.4?~~								
20										
23										

* See note (*) on preceding page

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1914phae.proj.1046M

Tuesday, June 9, 1914

HD Series 79

Scale Tn. HD 3264 129 J alt. am. +.20 S Tus maj. P C.

	Sc.1		Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
a	4.9	5.1	5.1 ?	5.80	2.08	7.08	7.	8.9	8.9	8.90	-1.77	7.13
b	5.8	6.0	5.9	5.85	1.78	7.57		9.4	9.6	9.58	-1.72	7.78
c	6.3	6.5	6.3	6.80	1.54	7.84		9.9	9.8	9.85	-1.69	8.16
d	6.4	6.6	6.7	6.55	1.78	7.98		10.2?	10.4?	10.80?	-1.64?	8.66?
e	5.9	6.1	5.8	5.85	1.72	7.57		9.5	9.5	9.50	-1.72	7.78
f	7.		7.3	7.30	1.20	8.50		7.	7.	∮		∮
g			7.9	7.9	1.08	8.98						
g2			8.3	8.3	1.01	9.31						
g3			8.3	8.30	1.01	9.31						
g4			8.5	8.45	1.00	9.45						
k			9.6	9.55	1.05	10.60						
l			9.2	9.25	1.01	10.26						
m			9.9	9.90	1.12	11.02						
n			10.3?	10.30 ?	1.26	10.56						
o			7.	∮		∮						
p												
p'												
q												

Var. 10.1? 10.1? 1.16 11.29?

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1914phae.proj.1046M

Tuesday, June 9, 1914

Continued

MD Series 79

Scale m MD. 3265+1271 att. corr +13 R. Virg

	Sc.1		Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
a	1.5	1.7	B.	1.7	~~2.46~~		6.4 6.6	6.7		6.65	
c	3.9	4.1	B.	4.1	2.46	6.56	7.	8.2	8.1	8.15	−1.80 6.35
f	5.3	5.6	5.5	5.50	1.87	7.37	7.	8.8	9.0	8.90	−1.77 7.13
d	5.6	5.8	5.6	5.70	1.78	7.48		9.2	9.2	9.20	−1.75 7.45
e	5.8	6.0	5.9	5.95	1.68	7.63		9.3	9.3	9.30	−1.74 7.56
j	6.8	7.0	6.9	6.95	1.31	8.26		9.9		9.9	−1.69 8.21
h	6.6	6.8	6.7	6.75	1.37	8.12		7.		F	F F
g	7.0	7.2	6.9	7.05	1.27	8.32					
k	7.		7.3	7.3	1.21	8.51					
l			7.8	7.8	1.09	8.89					
m			8.4	8.4	1.00	9.40					
n			8.6	8.6	8.60	0.99	9.59				
o			9.0	8.9	8.95	0.99	9.94				
p			~~9.7~~ 9.7		9.70	1.09	10.79				
q			9.8	9.8	9.80	1.10	10.90				
r		10.0	10.3	9.9	10.02	1.18	11.25				
s			10.0	10.1	10.05	1.16	11.21				
t			7.	7.	F						
Var.	7.		7.3		7.3	1.20	8.50	7.		7.	

Wrong star near last.

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Tuesday, June 9, 1914

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HD Series 79

Scale 100 HD 32614 130d Alt. corr. +.12 R Virg. P.C.

	Sc.1		Sc.2			Sc.1	Sc.2			Curve Magn.
Too far from center a				Curve.	Magn.	7.	8.5	8.8	8.80	-1.78 7.02
c	5.9	6.1	5.9	6.00	1.65		9.4	9.5	9.45	-1.72 7.73
f	6.1	6.3	6.3	6.30	1.53		9.7	9.7	9.70	-1.70 8.00
d	6.6	6.8	6.9	6.85	1.33		9.9	10.0	9.95	-1.68 ~~8.27~~
e	7.0	7.2	7.1	7.15	1.24		10.3?	10.3?	10.30?	~~-1.64? 8.66~~
f	7.		7.7	7.7	1.11		7.		∮	
g			7.8	7.8	1.09					
k			8.3	8.3	1.00					
h			8.3	8.3	1.00					
m			8.4	8.6	8.50	1.00	9.50			
n			8.8	8.9	8.85	0.99	9.84			
l			8.9	8.9	8.90	0.99	9.89			
o			9.6	9.6	9.60	1.06	10.66			
p			9.9	9.8	9.85	1.11	10.96			
q			9.9?	9.9?	9.90?	1.12	11.02?			
r			∮	∮	∮		∮			
s										
t										
u										

Var. n.s.

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Tuesday, June 9, 1914

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hD Series 79

Scale Tn	hD 3267		133 a V		Tn 3		P.C.			
	Sc 1		Sc 2				Sc 1	Sc 2		
					Curve.	Magn.				Curv. Magn.
α	6.7	6.9	6.9	6.90	1.31	8.21	7.	9.9	10.0	9.95 -1.68 8.27
β	7.		9.2	9.1 9.15	1.00	10.15		7.	7.	F.
γ			9.3	9.2 9.25	1.01	10.26				
δ			10.4?	10.3 ? 10.35?	1.28	11.63?				
ε			7.	F	F	F				
ζ										
η										

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1914phae.proj.1046M

Tuesday, June 9, 1914

Cepheid

HD Series 79

Scale Tn HD 3266 131 ♃ W Virg. P.C.

	Sc.1		Sc.2		Source	Magn.	Sc.1	Sc.2		Source	Magn.
				Altcm. +.03							
α	5.6	5.8	5.8		5.70	1.77	7.	9.6	9.4	9.50 −.80	7.78
β	6.4	6.6	6.7		6.65	1.39		10.0	9.9	9.95 −.68	8.27
γ	7.		7.7		7.7	1.11	8.81		7.	7.	5
a	7.		7.9		7.9	1.07	8.97				
b			8.9	9.9	7.90	1.07	8.97				
f			8.9	8.8	8.85	0.99	9.84				
j			9.2	9.2	9.20	1.03	10.23				
d			9.3	9.1	9.20	1.03	10.23				
c			9.9	9.8	9.85	1.11	10.96				
e			9.9	9.9	9.90	1.12	11.02				
g			10.1?	10.2?	10.15?	1.21	11.36?				
h			7.	7.	5						
k											
l											
m											
n											
Var.	7.		9.7		9.7	1.09	10.79				

(2

* Wrong star measured

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1914phae.proj.1046M

Tuesday June 9, 1914

Series 79 HnD

Scale 4m HnD 3269. Pole

	Sc.1	Sc.2		Sc.1	Sc.2	
5	4.2 ~~4.5~~ 4.4	B.	4.5 4	~~7~~.	8.4	8.5 8.45
6	5.3 ~~5.6~~ 5.5	5.3	5.45		8.9	9.1 9.00
8	7.	6.9	6.9		~~7~~.	7. F.
9		7.9	7.9			
10		8.2	8.2			
11		8.8	8.8 8.80			
12		8.9	8.9 8.90			
13		9.3	9.3 9.30			
14		9.9	9.9 9.90			
15		9.9	9.9 9.90			
16		~~7~~.	7 F			
17						
18						
19						
20						
23						
25						
26						
27						

$\frac{1}{4}$.13
(20 m out)

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1914phae.proj.1046M

Saturday, June 13, 1914

10.18 HD 7' Plate for Comparison Stars of S Ursae Majoris

Scale V HD 1922 H.P.S. P.C.

	Sc.B		Sc.E		Diff.	Sc.B	Sc.C
5	3.9	4.0	4.0	4.00	2.49		No PC
6	4.9	5.0	4.9	4.95	2.16		
8	6.8	6.9	6.9	6.90	1.33		
9	7		7.7	7.7	1.13		
10			7.7	7.7	1.32		
11			8.1	8.1	8.10	1.45	
12			8.3		8.3	1.56	
13			8.8		8.8	1.50	
14			9.2	8.9	9.05	1.60	
15			9.4	9.3	9.35	1.73	
16		9.8	9.6	9.8	9.72	1.63	
17			9.8	9.8	9.80	1.83	
18			9.8	9.9	9.85	2.21	
19			7.	7.			
20							
23							
25							
26							
27							

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Saturday, June 13, 1914

Hn D 1 Plate for Comparison Stars of S Ursae Majoris.

Scale V Hn D 1922 S Ursae Majoris Oct. to 3 P. C.

	Sc. B	Sc. C		Curve	Magn.	Sc. B	Sc. C
a	5.7 5.8	5.8	5.80	1.72	7.52		
f	6.3 6.4	6.3	6.35	1.50	7.85		
c	6.7 6.8	6.9	6.85	1.37	8.22		
d	6.8 6.9	6.9	6.90	1.36	8.26		
e	6.5 6.6	6.5	6.55	1.44	7.99		
f	7.	7.7	7.7	1.32	9.02		
g		7.9	7.9	1.35	9.25		
g_2		8.2	8.2	1.40	9.60		
g_3		8.4	8.4	1.44	9.84		
h		8.8	8.8	1.53	10.33		
k		9.4 9.5	9.45	1.71	11.16		
l		9.1 9.2	9.15	1.61	10.76		
m		9.6 9.7	9.65	1.80	11.45		
n		9.8 9.9	9.85	1.92	11.77		
o		7. 7.			9		
p							

10.52

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1914phae.proj.1046M

Monday June 15, 1914

12.05 mE Y' Plate for S Ursae Majoris + 7 Ursae Maj.

Scale to mE 1922 h. P.S. P.C.

	Sc.1		Sc.2		Diff.	No. P.C.
1	4.3	4.5	4.4	4.45	+0.03	
2	4.8	5.0	5.1	5.05	+0.28	
3	5.5	5.7	5.6	5.65	+0.16	
4	5.7	5.9	5.8	5.85	+0.14	
5	6.3	6.5	6.4	6.45	+0.04	
6	4		7.3	7.3	-0.19	
8			8.2	8.2	+0.03	
9			8.9	8.9	8.90	-0.07
10			8.8	8.8	8.80	+0.22
11			9.6	9.7	9.65	-0.10
12			9.8	9.8	9.80	+0.06
13			10.0	9.9	9.95	+0.35
14						
15						
16						

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1914phae.proj.1046M

Monday, June 15, 1914

Ym E Y' Plate for S+T Ursae Majoris

Scale m. Ym E 1922 S Ursae Maj. Oct. +.03

		Sc. 1	Sc. 2			Curve	Magn.
Defective	a	7.		7.7	7.7	7.75	-.02	7.73
	f		8.1	8.3	7.9	8.10	-.01	8.09
	c			8.6	8.6	8.60	+.01	8.61
	d			8.8	8.8	8.80	+.03	8.83
	e			8.2	8.2	8.20	-.01	8.19
	f			8.9	8.9	8.90	+.04	8.94
	g			9.4	9.3	9.35	+.09	9.44
	q			9.8	9.7	9.75	+.14	9.89
	q			9.8	10.2	10.00	+.17	10.17 ?
	h							
	k							
	l							
	m							
	n							

~~+.05~~

Var. m.s.?

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1914phae.proj.1046M

Monday, June 15, 1914

M E T Plate for Y and S Ursae Majoris

Scale m. M.E. 1922 T Ursae Majoris Aet. +.03

	Sc. 1	Sc. 2
a	6.9	6.9
b	See sequence for S Urs. Maj.	
c	" " "	
d	" " "	
e	" " "	
f	9.2	9.2
g	~~Sc~~ 9.8?	9.9?
g'	See sequence for S Urs. Maj.	
g²	" " "	
g³	7.	7.
g⁴		
h		

Ident. correct?

1.05

Var. n.s.?

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1914phae.proj.1046M

Thursday, June 18, 1914

Series 228

Scale 2" | mc 5184 | Pole | R.C. | mc 5189

3.27

	Sc.1	Sc.2			Mean			Sc.1	Sc.2			Mean		
5	.							5.17	5.6	5.50	5.80	5.65	15	15	0.84
6	.							6.2	6.1	6.15	6.25	6.20	05	05	0.91
8	.							7.1	6.9	7.00	7.10	7.05	05	05	1.18
9	.							7.8	7.7	7.75	7.75	7.75	00	00	1.08
10	4.5		4.5	4.6	4.55	1	0	4.47	7.9	7.85	7.85	7.85	00	00	1.17
11	4.9	B	4.9	4.9	4.90	0	0	4.65	8.4	8.5	8.3	8.40	1	1	1.15
12	5.2	5.1	5.15	4.95	5.05	10	10	4.81	8.7	8.7	8.7	8.70	0	0	1.16
13	5.6	5.4	5.50	5.55	5.52	02	03	4.78	9.4	9.4	8.9	9.15	2	3	1.15
14	5.9	5.8	5.85	5.75	5.80	05	05	4.85	10.0	10.0	9.2	9.60	4	4	1.05
15	6.1	6.0 – 6.1	6.23	6.10	6.16	07	06	4.92	9.9	9.9	9.4	9.65	3	2	1.43
16	6.7	6.3	6.50	6.4	6.45	05	05	4.95	10.2?	10.2?	9.9	10.05	2	1	1.35
17	6.7	6.8?	6.70	6.9	6.80	10	10	4.83							
18	7.2	7.2	7.20	7.1	7.15	05	05	4.91							
19	7.3	7.3	7.30	7.3	7.30	00	00	5.12							
20	7.9	7.8	7.85	7.8	7.82	03	02	4.91							
21															
23	8.1	8.2	8.2	8.1	8.15	0	1	5.19							
25		8.7 8.8	8.75	8.60	8.68	07	08	5.19							
26		8.9 9.1	9.00	8.90	8.95	05	05	5.38							
27		9.2 9.2	9.20	9.00	9.10	10	10	5.59							
28		9.8 9.8?	9.75	9.70	9.72	03	02	5.39							
29		10.1? 9.9	10.00	9.90	9.95	05	05	5.71							
30		10.3? 10.1?	10.20?	F	10.20	A		5.84							

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1914phae.proj.1046M

Thursday, June 18, 1914

Series 228

Scale 7u Fm E 5186 $12^h 40^m + 60$ Reference Seq. P.C.

Att. corr +.25

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2	Curve	Magn.
1	3.9		3.9			6.9	6.9	6.90 1.05	7.95
2	4.6	B.	4.6	4.51	9.11	8.0	7.9	7.95 1.14	9.09
3	5.4	5.1	5.25	4.74	9.99	7.	8.7	8.7 8.70 1.16	9.86
4	6.2	6.0	6.10	4.89	10.99		9.8	9.7 9.75 1.28	11.03
5	6.7	6.7	6.70	4.96	11.66		10.0	10.1 10.05 1.38	11.43
6	7.1	6.9	7.00	5.00	12.00		7.	F	F
7	7.3	7.2	7.25	5.02	12.27				
8	7.7	7.6	7.65	5.08	12.73				
9	7.	8.2	8.2	5.16	13.36				
10		8.4	8.3 8.35	5.19	13.54				
11		8.9	8.9 8.90	5.32	14.22				
12		9.1	9.2 9.15	5.39	14.54				
13		9.3	9.2 9.25	5.43	14.68				
14		9.9	9.8 9.85	5.64	15.49				
15		9.9	7. 9.9	5.67	15.57				

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Thursday June 18, 1914

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Scale 1m = 5186 (cont.) Stars Maj. P. C.

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
a	4.0		4.0			6.4	6.6	6.50	1.00	7.50
f	4.2		4.2			7.0	6.9	6.95	1.06	8.01
c	4.6		4.6	4.51	9.11	7.4	7.4	7.40	1.10	8.50
d	4.7		4.7	4.56	9.26	7.7	7.5	7.60	1.12	8.72
e	3.9		3.9			6.8	6.8	6.80	1.04	7.84
f	4.8		4.8	4.60	9.40		7.8	7.8	1.14	8.94
g'	5.0	B.	5.0	4.67	9.67		8.2	8.2	1.15	9.35
g²	5.2	5.1	5.15	4.72	9.87		8.7	8.7	1.16	9.86
g³										
g	5.3	5.2	5.35	4.76	10.11		8.8	8.8	1.16	9.96
h	5.7	5.4	5.55	4.81	10.36		8.9	8.9	1.16	10.06
k	6.3	6.2	6.25	4.90	11.15		9.7	9.7	1.27	10.97
l	5.9	5.8	5.85	4.86	10.71		9.6	9.6	1.23	10.83
m		6.6	6.6	4.95	11.55		9.9	9.9	1.33	11.23
n		6.8	6.8	4.97	11.77		?	?	?	?
o		7.3	7.3	5.03	12.33					
p		7.4	7.4	5.04	12.44					
p'		7.8	7.8	7.80	5.10	12.90				
q		8.1	8.2	8.15	5.16	13.31				
r		8.2	8.2	8.20	5.17	13.37				
s		8.7	8.7	8.70	5.27	13.97				
t		8.9	8.9	8.90	5.32	14.22				
u		?	?	?		?				
w		?		?		?				
x										
Var	5.1	5.0		5.05	4.68	9.73	8.6	8.6	1.16	9.76

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Scale 2v Mc 5186 Trns. maj. alt. cen. +.20 P.C.

	Sc.1	Sc.2		Curve Magn.		Sc.1	Sc.2		Curve Magn.	
a	3.6		3.6			5.9	5.9	5.90	0.88	6.78
b	.	.				.	.			
c	.	.				.	.			
d	.	.				.	.			
e	.	.				.	.			
f	4.7		4.7	4.56	9.26	7.9	7.9	7.90	1.14	9.04
g	4.7	B.	4.7	4.56	9.26	7.9	7.8	7.85	1.12	8.97
g'	.	.				.	.			
g²	.	.				.	.			
g³	5.3	5.1	5.28	4.73	9.93					
h	5.6	5.6	5.68	4.82	10.42					
k	5.7	5.8	5.88	4.85	10.65					
l	6.2	6.2	6.28	4.90	11.10					
m	6.5	6.3	6.40	4.92	11.32					
n	6.9	6.9	6.90	4.99	11.89					
o	7.3	7.3	7.30	5.03	12.33					
p	7.8	7.6	7.60	5.09	12.79					
q		7.8	7.8	5.10	12.90					
r		7.7	7.7	7.70	5.09	12.79				
s		8.1	7.9	8.00	5.14	13.14				
t		8.7	8.7	8.70	5.27	13.97				
u		8.5	8.4	8.45	5.23	13.68				
w		8.8	8.9	8.85	5.31	14.16				
x		9.2	9.3	9.25	5.43	14.68				
y		9.8	9.9	9.85	5.64	15.49				

4.7 Var. 4.8 B. 4.8 4.60 9.40 7. 7.9 7.9 7.90 9.04

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Thursday, June 18, 1914

Series 228 Leopold

Scale 2 mc 518 Pole RS Tiro Maj. Alt. corr. +.20 P.C.

	Sc.1	Sc.2	Curve	Magn.	Sc.1	Sc.2	Curve	Magn.
a	4.1		4.1 ~~4.52~~		7.2	7.1	7.15 1.08	8.23
a'	4.6		4.6 4.52	9.12	7.8	7.8	7.80 1.13	8.93
b	4.7	B.	4.7 4.56	9.26	7.9	7.9	7.90 1.14	9.04
b'	5.2	5.1	5.15 4.71	9.86	7.	8.6	8.8 8.70 1.16	9.86
c	5.8	5.8	5.80 4.85	10.65		9.6	9.5 9.55 1.22	10.77
d	5.7	5.4	5.55 4.81	10.36		8.9	8.9 1.16	10.06
e	5.7	5.6	5.65 4.83	10.48		9.0	9.0 1.16	10.16
f	5.9	5.9	5.90 4.86	10.76		9.9	9.9 1.33	11.23
g	6.1	6.1 5.8	6.00 4.87	10.87		9.9	9.9 1.33	11.23
h	6.7	6.6	6.65 4.96	11.61		9.9	9.9 1.33	11.23
h'		7.2	7.2 5.02	12.22		7	9	9
h²		6.9	6.9 4.99	11.89		7.	9	9
k		7.3	7.3 5.03	12.33				
l³		7.2	7.2 5.02	12.22				
l'		7.7	7.7 5.09	12.79				
m		7.8	7.8 5.10	12.90				
n		7.8	7.8 5.10	12.90				
o		8.1	8.1 5.15	13.26				
o'		8.7	8.7 5.27	13.97				
p		8.6	8.6 5.25	13.85				
q		8.8	8.8 5.30	14.10				
r		8.9	8.9 5.32	14.22				
s		9.4 9.4	9.40 5.48	14.88				
t		9.7 9.4	9.55 5.52	15.07				
u		9.4 9.7	9.55 5.52	15.07				
w		9.7 9.8	9.75 5.61	15.36				
x		9.9 10.3?	10.10? 5.79	15.89? 16.09?				
y		10.3? 10.2?	10.20? 5.89		9.3	9.4	9.35 5.46	14.81

Ident. uncertain See mc 122 (corr)

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Thursday, June 18, 1914

Series 22f

Scale 1c Int 5189 Pole P.C.

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2	Curve	Magn.
5	.	.				5.9	5.7	5.80	0.86 6.66
6	.	.				6.4	6.1	6.25	0.95 7.20
8	.	.				7.1	7.1	7.10	1.08 8.18
9	.	.				7.7	7.8	7.75	1.13 8.88
10	4.6		4.6	4.52	9.12	7.9	7.8	7.85	1.14 8.99
11	4.9	B.	4.9	4.63	9.53		8.3	8.3	1.15 9.45
12	4.9	5.0	4.95	4.64	9.59		8.7	8.7	1.16 9.86
13	5.7	5.4	5.55	4.81	10.36		8.9	8.9	1.17 10.07
14	5.8	5.7	5.75	4.84	10.59		9.2	9.2	1.17 10.37
15	6.1	6.1	6.10	4.89	10.99		9.4	9.4	1.20 10.60
16		6.4	6.4	4.92	11.32		9.9	9.9	1.23 11.23
17		6.9	6.9	4.99	11.89		7.	5	5
18		7.1	7.1	5.00	12.10				
19		7.3	7.3	5.02	12.32				
20		7.8	7.8	5.10	12.90				
23		8.1	8.1	5.15	13.25				
25		8.7	8.5	8.60	5.25	13.85			
26		8.9	8.9	8.90	5.32	14.22			
27		9.1	8.9	9.00	5.35	14.35			
28		9.7	9.7	9.70	5.59	15.29			
29		9.9	9.9	9.90	5.66	15.56			
30		7.	7.	5	..	5			

6.05

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Wednesday 30
~~Tuesday~~, September ~~29~~ 1914

10.25 Series 226

Scale R mc 5153 Pole

P.C.

	Sc.1	Sc.2							Sc.1	Sc.2		5159 P.C.	5165 P.C.
5									8.8	8.8		8.95	8.85
6									9.1 7	9.8	9.9	9.85	9.65
8										11.2	11.3	11.25	11.15
9				mc 5159 P62	mc 5165 P67	Mean	Res	Diff		11.7	11.8	11.75	11.90
10	6.6			6.9	6.6	6.80	1 1 2	2.22		11.9	12.2	12.05	12.25
11	7.3	B.		7.7	7.2	7.50	1 2 3	2.05		12.9		13.1	12.6
12	7.8	B.		8.15	8.0	8.08	02 07 08	1.78		13.5		13.3	13.1
13	8.4	8.3	8.4	8.47	8.85	8.50	8.61	14 24 11	1.69		13.8		13.9	13.7
14	9.0	9.2		9.25	9.35	8.90	9.17	08 18 27	1.48				14.1	13.8
15	7	9.9		9.9	9.7	9.83	1 1 1	1.25					f	14.2
16		10.3		10.3	10.1	10.23	1 1 1	1.17						f
17		10.8		10.7	10.6	10.70	1 0 1	0.93						
18		11.3		11.2	10.9	11.13	2 1 2	0.93						
19		11.7		11.7	11.3	11.57	1 1 3	0.85						
20		11.8	11.8	11.80	12.00	11.90	11.90	10 10 00	0.83					
23		12.7	12.6	12.65	12.70	12.35	12.57	08 13 22	0.77					
25		13.4	13.4	13.40	13.40	12.80	13.20	20 20 40	0.67					
26		13.8	13.8	13.80	13.65	13.55	13.67	13 02 12	0.66					
27		13.9	14.0	13.95	13.80	13.70	13.88	07 08 02	0.81					
28		14.	14.	14.0	f	14.00	. .	1.11						
29				f		.	.							

	mean.	Res.	Diff
5	8.65	30 10 20	− 2.16
6	9.52	33 13 17	− 2.41
8	11.12	13 03 17	− 2.89
9	11.88	13 02 12	− 3.05
10	12.10	05 15 10	− 3.08
11	12.87	0 2 3	− 3.32
12	13.30	2 0 2	− 3.44
13	13.80	0 1 1	− 3.50
14	13.95?	. 2 2	− 3.30
15	14.20?	. 0	− 3.12

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Wednesday, September 30, 1914

Series 226 60 V

Scale R me 5155 P Aurigae Ref. Seq. Alt. +.14 P. E

	Sc.1	Sc.2	Sc.2	Sc.2			Sc. 1	Sc 2			
	4.8 5.1	1 4.8 5.1					7.	10.7	10.6	1065	-274 7.91
	6.1 6.4	2 6.1 6.4						11.9	11.9	11.90	-306 8.84
	6.6 6.9	3 6.7 7.0	B.	695 L0		Curve. 2.19	Magn 9.14	12.3	12.4	1235	-318 9.17
	8.7 9.0	4 8.6 8.9	8.7		8.88 101	1.56	10.36	14.2	14.0	1410	-331 10.79?
		5 7.	9.8			1.26	11.06	7.	7.	.	.
		6 7.	10.3			1.10	11.40				
		7	11.3			0.88	12.18				
		8	11.7			0.81	12.51				
		9	12.2			0.75	12.95				
		10	12.8			0.71	13.51				
		11	12.9 13.2	12.8	1297	122	0.70	13.67			
		12	13.3	13.4	1335	10	0.68	14.03			
Scratched		13	13.6?	13.5	1355	01	0.68	14.23			
		14	13.7	13.7	1370	00	0.71	1441			
		15	13.8	13.9	1385	01	0.75	14.60			

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Series 226 20K

Scale R Inc 5155 R Auriga Alt +14 P E

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Sc.2	Sc.2	Curve	Magn
a	B.				8.1	8.1			8.25 -2.08	6.17
b	4.8				7	10.3	10.4		10.35 -2.67	7.68
c	3.4				4.	9.5	9.9	9.7	9.70 -2.47	7.23
c'	4.6					10.7	10.7		10.70 -2.75	7.95
c²	5.2					10.7	11.1	10.9	10.90 -2.80	8.10
d	5.9					11.7			-3.00	8.70
e	6.6		2.21	9.11		11.9			-3.06	8.84
f	7.3		2.00	9.60		12.9			-3.33	9.57
g	7.3		2.00	9.60		13.2			-3.40	9.80
g'	7.6	B.	1.91	9.81		12.7			-3.45	10.25
g²	8.5	8.4	8.4 8.53	1.67 10.20		13.7			-3.45	10.25
g³	8.8	8.8	8.95	1.52 10.47		13.9			-3.42	10.46
h	8.9	8.8	9.2 9.07	1.49 10.56		7				
k	7.	9.3		1.43 10.73						
l		9.4		1.39 10.79						
m		10.8		0.99 11.79						
n		9.8		1.26 11.06						
o		10.5		1.05 11.55						
o'		10.9		0.96 11.86						
o²		11.7		0.81 12.51						
p		12.3		0.74 13.04						
p'										
q		12.7	12.7	12.70 0.72 13.42						
r		13.1	13.2	13.15 0.69 13.84						
s		13.5	13.4	13.45 0.68 14.13						
t		13.9	13.9	13.90 0.78 14.68						
w		13.8	13.9	13.85 0.75 14.60						
		8.1	8.2	8.15 1.80 9.95						

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Var. 8.3 66

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Wednesday, September 30, 1914

Series 226

Scale R me 5.157 RZ Auriga Ref. Sq. Alt. +.11 P. C.

	Sc.	Sc.		Curve	Magn	Sc.	Sc.		Curve	Magn
1	4.5 48					7.	10.4	10.6 10.50	-.270	7.80
2	5.3 55						10.8	10.8 10.80	-.279	8.01
3	6.8 7.1			2.17	9.27		12.8	12.7 12.75	-.330	9.45
4	7.1 7.4	B.		2.N 08	9.57 48		12.9	12.9 12.90	-.332	9.58
5	7.	10.1	10.2 10.15	1.13	11.28		7.	7.		
6		11.4		0.86	12.26					
7		11.3	11.4 11.35	0.88	12.23					
8		12.7	12.7 12.70	0.72	13.42					
9		12.9	12.8 12.85	0.71	13.56					
10		13.3	13.6 ~~13.50~~ 13.55	0.68	14.18 13					
11		13.7	13.7 13.70	0.71	14.41					
12		7.	7.		7					
13										
14										
15										

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Wednesday, September 30, 1914

Cofued.

Series 226

Scale R Inc 51.57 RZ Aurigae. Alt + || P.E.

	Sc.	Sc.		Curve	Magn	Sc.1	Sc.2		Curve	Magn
	6.5					7				
a	6.2						12.0	12.1	12.05 − 3.10	8.95
b	6.7 (7.0)	B.		2.19	9.19		12.7	12.8	12.75 − 3.28	9.47
8.3 (8.6)	c 8.6 (8.9)	8.4	8.3	~~8.73~~ 8.55 (~~3.3~~ 0.373)	1.62 (6)	10.33 (21)	13.8	13.8	13.80 − 3.80 (.44)	10.52 (36)
	d 7.9 (8.2)	8.0		8.10 (1.1)	1.81	9.91	13.7	13.5	13.60 − ~~3.27~~ (.45)	10.36 (.15)
	f ~~7~~	9.7			~~0.80~~ (1.30)	11.00	7	7	, ,	7
	g	10.1			1.17	11.27				
	e	10.8			0.99	11.79				
	k	10.9			0.96	11.86				
	l	11.7			0.81	12.51				
	h	12.2	12.3	12.25	0.74	12.99				
	h'	12.7	12.8	12.75	0.72	13.47				
	m	12.7	12.7	12.70	0.72	13.42				
	m'	13.3	13.3	13.30	0.68	13.98				
	n	13.9	13.9	13.90	0.78	14.68				
	o	14.1?	14.1?	14.10?	1.00	15.10?				
Var	7	10.5	10.3	10.40 (1.1)	1.08	11.48				

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1914phae.proj.1046M

Wednesday, September 30, 1914

Series 226

Scale R Tne 5159 Pole P C

	Sc.	Sc.		Sc. 1	Sc. 2		
5	.	.		8.4 (8.7)	8.4		8.55 1 2
6	.	.		7.	9.5	9.8	9.65 1 2
8	.	.		7.	11.1	11.2	11.15 1 0
9	.	.			11.9	11.9	11.90 0 0
10	6.6 (6.9)				12.2	12.3	12.25 0 1
11	7.4 (7.7)	B.			13.1		
12	7.9 (8.2)	8.1	8.15 1 1		13.3		
13	8.4 (9.0)	8.7	8.85 2 1		13.9		
14	9.1 (9.4)	9.3	9.35 0 1		14.1?		
15	7.	9.9			7.		
16		10.3					
17		10.7					
18		11.2					
19		11.7					
20		12.1	11.9 12.00 1 1				
23		12.7	12.7 12.70 0 0				
25		13.4	13.4 13.40 0 0				
26		13.7	13.6 13.65 1 0				
27		13.8	13.8 13.80 0 0				
28		14.0	7 14.0 2.				
29		7.					
30							

See p. 57

(28= out)

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1914phae.proj.1046M

Wednesday, September 30, 1914

Series 226

Scale R Im. c .5160 Teleline 7h 40 +20°.5 P.e. Alt +.15

	Sc	Sc		Curve	Magn	Sc.	Sc.		Curve	Magn
	1.3.					8.2 85.	8.2	8.35	12 -2.10	6.25
2	4.44.					7.	10.6	10.6	1060 00 -2.74	7.86
3	6.7 10.	8.		2.19	9.19		12.8	12.9	12850 i -3.30	9.55
4	7.7 80.	8.0	8.00 00	1.85	9.85		13.3	13.6	13.45 i2 -3.44	10.01
5	8.8 92.	9.3	9.25 01	1.45	10.70		7.	7.	. . .	f
6	7.	10.3		1.10	11.40					
7		11.9	12.1 1200 i1	0.76	12.76					
8		12.4	12.3 1235 01	0.74	13.09					
9		13.4	13.3 1335 01	0.66	14.03					
10		13.7	13.7 1370 00	0.71	14.41					
11		13.9	13.9 1390 00	0.78	14.68					
12		7.	,	,	f					
13										
14										
15										

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Series 226

Scale 9. Tue 5161 Praesepe Alt. +17 . P.C.

	Sc.	Sc.		Curve	Magn	Sc.	Sc.		Curve	Magn
a	B.					7.9 87	8.2	820 00	-2.07	8.13
b	2.0 23					8.2 89	8.7	880 11	-2.22	6.58
d	2.2 25					8.7 90	8.7	885 21	-2.22	6.63
g	3.3 36	9.7				7.	9.7	9.8 975 10	-2.28 48	7.27
k^2	4.1 44						10.3	10.2 1025 10	-2.37 61	7.64
k^3	4.5 48						10.8		-2.80	8.00
k^4	5.4 57	11.3		197			11.3		-2.89	8.41
k^5	6.2 65						12.0		-3.09	8.91
k^2	7.4 77	B.		1.97	9.67		12.8		-3.30	9.50
k^3	6.8 71	B.		2.18 6	9.23 6		12.4		-3.20	9.20
m^1	7.6 79	8.0	795 10	1.88	9.83		13.3		-3.42	9.88
m^2	8.2 85	8.2	835 12	1.72	10.07		13.7		-3.45	10.25
o	7.9 82	8.2	820 00	1.79	9.99		13.7		-3.45	10.25
r	8.4 87	8.6	865 10	1.70 62	10.35 27		13.9		-3.41	10.49
s	7.	9.4		1.39	10.79		7.			
t		10.2		1.12	11.32					
u		10.2		1.12	11.32					
w		10.2		1.18 2	11.32 2					
z		10.8		0.99	11.79					
α		11.3		0.89	12.19					
β		11.9		0.78	12.68					
γ		12.3		0.74	13.04					
δ		12.7	12.7	127000	0.71	13.41	λ	14.1	14.2 1415?	111 1526?
ε		12.8	12.7	127501	0.71	13.46	μ	7.		
η_0		13.4	13.6	13501 1	0.68	14.18	ν 44 41	7.		
η		13.7	13.7	137000	0.71	14.41	χ 8	B.	7. 10.7	10.7
θ		13.8	13.9	138501	0.74	14.59	ψ 2.1 24	B.	8.5 88	8.65

P.C.

Sc. 1 Sc. 2 Sc. 2

1070-275 8.15

8.5-218 6.47

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Capricorn

Series 226

Scale R m e 5161 S Cancri Alt +.17 P. E.

	Sc	Sc		Curve	Magn	Sc 1	Sc 2	Sc 2		Curve	Magn
a	4.7 50.					7.	10.1				
a'	2.3 76.					8.9 92.	9.20	10.2	1015 10	-2.60	7.55
4.1 4.4 b	4.3 46.					7.	8.9	9.2	910 121	-2.31	6.79
c	4.2 45.						10.5	10.3	1040 11	-2.68	7.72
c'	4.8 51.					10.5	10.4	10.7	1053 012	-2.71	7.82
d	5.4 57.						10.7	10.7	1070 00	-2.75	7.95
6.9 7.7 e	7.2 75.						10.9			-2.79	8.11
7.1 7.4 e'	7.1 74.		7.35 21		2.09 9.44		12.9 10.1			-3.26	9.44
f	6.9 72.		7.40 00		2.07 9.47		12.9			-3.33 -2.78	9.57
8.3 8.6 f'	8.6 89.	B.			2.12 9.32		12.8			-3.36	9.50
g	7.	8.4	8.65 32	-3 03	1.62 10.27		13.9			-3.41	10.59
h	7.	9.3			1.43 10.13		7.			.	
g	8.1 84.	8.2	8.30 11		1.75 10.05		13.6			-3.45	10.15
l	7.	10.3	10.2 1025 10		1.11 11.36		7.				
m		10.6	10.5 1055 01		1.04 11.59						
m		11.1	11.3 1120 11		0.90 12.10						

-2.75 8.75

-2.18 6.47

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Series 226

Scale R Mt E 5162 C5 Alt. 7.16 P. C

	Sc. 1	Sc. 2		Curve	Magn.	Sc. 4.	Sc.		Curve	Magn.
Too far from center	1 ~~3.4~~						9.2	9.5	9.35	6.97
	2 4.9						10.5	13.6	10.55	7.84
	3 5.3						10.2	13.3	10.25	7.64
	4 5.4						10.7	10.7	10.70	7.95
	5 6.1						11.4	11.7	11.55	~~8.48~~ 8.57
	6 6.3						12.1			8.98
	7 6.7			2.19	9.19		12.2			9.06
	8 7.1			2.06	9.46		12.4			9.20
	9 7.3			2.00	9.60		12.8			9.50
	10 7.5	B.		1.93	9.73		13.3			9.98
	11 7.7	B.		1.85	9.85		13.2			9.80
	12 8.2	8.2	8.35 12	1.72	10.07		13.4			9.96
	13 8.4	8.4	8.55 12	1.64	10.19		13.7			10.25
	14 8.7	8.7	8.85 22	1.57	10.42		14.0			10.65
	15 7.	9.8		1.25	11.05		4.			
	16	9.7		1.30	11.00		11.2			8.33
	17	10.4		1.07	11.47		4a	5.5		
	18	10.5		1.05	11.55		14a		8.7	10.34
	19	10.8		0.99	11.79		20a			11.1 12.02
	20	10.8		0.99	11.79					
	21	11.3		0.89	12.19					
	22	11.7		0.81	12.51					
	23	11.9		0.78	12.68		29		13.9	13.9 14.89
	24	12.4	12.3 12.35 01	0.74	13.09		30			
	25	13.0	12.9 12.95 01	0.70	13.65		31			
	26	13.3	13.2 13.25 10	0.68	13.93		32			
	27	13.7	13.5 13.60 11	0.69	14.29					
	28	13.6	13.6 13.60 00	0.69	14.29					

Pr. Comp. of 4a Pr. Comp. of 14a

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Wednesday, September 30, 1914

Series 226

Scale R mc 5165 Pole

	Sc.	Sc.		Sc.	Sc.	
5				8.2	8.2	845 12
6				8.9	8.9	905 21
8				7.	11.1	10.8 10.95 12
9					12.1	11.9 1200 11
10	6.3				11.9	12.1 1200 11
11	6.9				12.6	
12	7.7	B1			13.1	
13	8.3	8.4	8.50 11		13.7	
14	8.7	8.8	8.90 11		13.8	
15	7.	9.7			14.23	
16		10.1			7.	
17		10.6				
18		10.9				
19		11.3				
20		11.9	11.9 11.90 00			
23		12.4	12.3 12.35 01			
25		12.8	12.8 12.80 00			
26		13.5	13.6 13.55 10			
27		13.9	13.9 13.90 00			
28		7.	7.			
29						
30						

Sept. 29

4.30 (pm)

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Friday October 9. 1914

9.30 Series 212

Scale R. mc 4992 Pole 1st Eqs. P.C.

	Sc.1		Sc.2		mc 4996 + 78	Mean.		Diff.	Sc.1	Sc.2		mc 4996	
5	7.2. 4.5		B.		8.1	7.80	3	3 -131	7.	12.3	12.4	12.35 1 0 12.47	12.41
6	7.9 8.7		8.1	8.16 0 1	8.90	8.52	37	38 -141		13.1	13.2	13.15 1 0 13.45	13.30
8	7.		9.9		10.4	10.15	3	2 -192		14.3?	14.3?	14.30 0 0 14.20	14.25
9			10.6		10.8	10.70	1	1 -187					
10			10.9		11.6	11.25	3	4 -223					
11			11.5		11.9	11.70	2	2 -215					
12			11.9		12.3	12.10	2	2 -224					
13			12.4		12.90	12.65	25	25 -235					
14			12.8		13.30	13.05	25	25 -240					
15		13.1	13.3	13.20 1 1	13.35	13.28	08	07 -220					
16		13.4	13.7	13.55 2 1	13.70	13.62	07	08 -222					
17		13.7	13.8	13.75 1 0	13.90	13.82	07	08 -219					
18		13.9	13.9	13.90 0 0	14.10	14.00	10	10 -194					
19		14.2?	14.1?	14.15 0 1	F	14.15	22	1 -173					
20			7.	7.									
22													
25													
26													
27													
28													
29													
30													

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Friday October. 9. 1914

Series 2 12

Scale P. mc 4992 Pole 2nd Eph. P E.

	Sc.1	Sc.2	mc 4996 λ 79	mean	Diff	Sc.1	Sc.2	mc 4996 λ 79	Diff
12.41 - 5.92	5 5.4	B.		6.1	5.90 2 2 0.59	7.	11.2 11.2	11.20 00	11.40 11.30 - 481
13.30 - 6.19	6 6.2	B.		7.1	6.80 3 3 0.31		11.8 11.7	11.75 01	11.85 11.80 - 469
14.25 - 6.02	8 8.3	8.3	8.45 2 1	8.40	8.42 03 02 -0.21		13.6 13.6	13.60 00	1365 1362 - 539
	9 8.9	9.3	9.25 01	9.30	9.28 03 02 -045		14.1? 14.0	14.05 10	1385 1395 -512
	10 7.	9.5		9.9	9.70 2 2 -068		14.0 14.0	14.00 00	1395 1395 - 498
	11	10.1		10.8	10.45 3 4 -0.90		7.		14.10 14.10 - 455
	12	10.7		10.9	10.80 1 1 -094				
	13	11.2		11.6	11.40 2 2 -110				
	14	11.8		11.9	11.85 0 1 -120				
	15	12.1		12.2	12.15 1 0 -107				
	16	12.3		12.7	12.50 2 2 -110				
	17	12.7	12.9 12.80 1 1	12.90	12.85 05 05 -122				
	18	13.1	13.3 13.20 1 1	13.30	13.25 05 05 -119				
	19	13.4	13.3 13.35 0 1	13.65	13.50 15 15 -108				
	20	13.8	13.9 13.85 0 1	13.75	13.80 05 05 -107				
	23	14.0	14.1? 14.05 0 1	14.00	14.02 03 02 -068				
	25	7.	7.	14.20	14.20 · 22 -033				
	26								
	27								
	28								
	29								
	30								

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Series 212

Card

Scale R Mc 4993 Pleiades 1st Exp. alt. .00 P. C.

	Sc. 1	Sc. 2			Sc. 1	Sc. 2	Mean Curve Magn
1	B.				7.9 7.6	B.	
3	1.9 2.2				8.6 8.3	8.7	8.65 01
2	1.9 2.2				8.6 8.3	8.6	8.60 00
4	2.8 3.1					Sup. on Br. Sta.	
6	2.9 3.2				9.2 8.9	9.6	9.40 22
5	2.8 3.1				9.40 9.4	9.4	9.40 00
7	4.2 4.5					10.6	
8	5.4 5.7					10.7	
9	5.7 6.0					11.3	−1.50 −6.00 6.10
10	6.8 7.1			Curve Magn		12.1	−1.55 −6.05 6.65
11	7.7 8.0	B.		−1.34 6.66		12.7	
12	7.7 8.0	8.0	8.00 00	−1.34 6.66		12.8	−1.56 −6.05 6.75
13	8.2 8.5	8.4	8.45 10	−1.40 7.05		13.2	−1.59 −6.09 7.11
14	8.4 8.7	8.6	8.65 10	−1.45 7.20		13.3	−1.60 6.10 7.20
15	8.4 8.7	8.5	8.60 11	−1.45 7.15		13.4	−1.60 6.10 7.30
16		8.9		−1.50 7.40		13.4	−1.60 6.10 7.30
17		9.5		−1.66 7.84		13.7	−1.60 6.16 7.60
18		10.2		−1.84 8.36		14.0	−1.60 6.10 7.70
19		10.8		−1.99 8.81		F.	F.
20		10 9.7		−1.95 8.75			
21		10.7		−1.95 8.75			
22		10.9		−1.99 8.91			
23		10.8		−1.98 8.82			
24		11.3		−2.09 9.21			
25		11.3		−2.09 9.21			
26		11.8		−2.19 9.61			
27		12.4		−2.29 10.11			
28		12.8	12.7 12.75 01	−2.30 10.45			

Wrong unit.

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Series 212

Scale R Mc 4993 Pleiades 1st ~~2nd~~ Exp. cont P C.

	Sc. 1	Sc. 2		Curve	Magn	Sc. 1	Sc. 2
29		13.2	12.9	13.052 1	−2.30	1075	
29a		13.2	13.3	13.250 1	−2.29	1096	
30		13.4	13.5	13.450 1	−2.22	11.23	
31		13.9	13.9	13.900 0	−2.09	1181	
32		13.9	14.2? 14.05?	12	−2.01	1204	
32a		7.	7.	.	.	7.	
33		7.	.	.	.	7.	
34							
34a							
35							
35a							
36							
37							

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Series 2 | 2

Scale R Fnc 4993 Pleiades 2nd Sup. Alt .00 P. C.

	Sc.1	Sc.2	Curve Magn		Sc.1	Sc.2	Mean	Curve Magn	
1					6.8 71 6.8 71		7.10 00		
3					7.7 80 7.6 79		7.95 01		
2					7.7 80 7.6 78		B. 7.90 11		
4	B.				7.7 80 7.7 80		B. 8.00 00		
6	B.				8.2 85		8.2 8.35 12		
5	B.						8.1		
7	2.0 23						9.1		
8	4.4 47						9.7		
9	4.3 46						10.3		
10	5.5 58		0.60	6.40			10.7	-4.74	5.96
11	5.9 62		0.49	6.69			11.6	-4.89	6.71
12	6.2 65		0.40	6.90			11.7	-4.90	6.80
Sup. on P.C. 1, 4	12		.	.			11.9	-4.95	6.95
	14	6.8 71	0.21	7.31			11.9	-4.95	6.95
	15	6.9 72	0.19	7.39			12.2	-5.03	7.17
	16	6.9 72	0.19	7.39			12.3	-5.05	7.25
	17	7.7 80	B.	-0.08	7.92		12.8	-5.15	7.65
8.7 90	18	8.9 91	8.6	8.6 882 2322	-0.38	8.44	13.7	-5.14	8.56
Double star Pa. meas.	19	9.1? 94	9.1?	9.55? 21	-0.62	8.93?	13.9	-5.06	8.84
	20	8.9 92	9.3	9.25 01	-0.50	8.75	13.8	-5.10	8.70
	21		9.3		-0.52	8.78	13.9	-5.06	8.84
	22		9.4		-0.57?	8.83	13.9	-5.10	8.60
	23		9.1		-0.70	9.10	13.9	-5.06	8.84
	24		10.1		-0.79	9.31	14.1?	-4.95?	9.15
	25		10.3		-0.84	9.46			
	26		10.3		-0.84	9.46			
	27		11.4		-1.08	10.32			
	28		11.6		-1.12	10.68			

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Friday, October 9, 1914

Series 212

Scale R Tm E 4993 Pleiades 2nd Exp. cont. P C.

	Sc.1	Sc.2	Sc.2	Curve	Magn	Sc.1	Sc.2
29			11.7		-.11	10.59	
29a			12.1		-.18	10.94	
30		12.4	12.4	12.7	12.50 .12	-.18	11.32
31		13.1	13.1	12.7	12.97 .13	-.17	11.80
32			13.3	13.6	13.45 .12	-.13	12.32
32a			13.8	13.8	13.80 .00	-.08?	12.92?
33			13.8	13.9	13.85 .01	-.05?	12.90?
34			14.2?	14.1?	14.15 .01		
34a			?,	14.2?	14.22? .02		
35							
35a							
36							
37							

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Friday October 9, 1914

Series 212

Scale R. Inc 4994 Saturn 1st Exp. P C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
1	7.	11.9		-2.21	969	7	7.
2		12.1		-2.24	986		
3		12.2		-2.26	994		
4		12.4	12.3 1235 01	-2.28	1007		
5		12.8	12.8 1280 00	-2.30	1050		
6		13.0	12.9 1295 01	-2.30	1065		
7		13.8	13.7 1375 01	-2.13	1162		
8		14.0	14.1 1405 01	-2.01	1204		
9		7.	7. . .		7.		
10		7.	. .		7.		

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Friday, October 9, 1914

Series 21 2s

Scale R Fne +994 Saturn 2nd Eyp. P.E.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2
1	7.	10.7			-1.04	-0.95	9.75	7.	7.
2		10.8			-1.05	-0.98	9.82		
3		10.6	10.8	10.70 11	-1.04	-0.95	9.75		
4		11.0			-1.08	-1.02	9.98		
5		11.7			-1.11	-1.11	10.59		
6		11.8	11.9	11.85 01	-1.12	-1.13	10.72		
7		12.6	12.7	12.65 01	-1.11	-1.18	11.47		
8		13.2	13.2	13.20 00	-1.01	-1.17	12.03		
9		13.7	13.7	13.70 00		-1.05	12.65		
10		13.8	13.9	13.85 01		-0.94	12.91		

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Friday October 9, 1914

Series 212 alt. -.11

Scale R. Inc 4995 Orion 1st Expo. P.C.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2	
1	7.	10.3			-1.85	8.45	7	14.1?	6.09 ~~5.94~~ 8.01 ~~8.16~~
2		10.8			-1.98	8.82		7.	
3		10.7			-1.95	8.75			
4		12.2	12.1	12.150	± -2.26	9.89			
5		12.6	12.8	12.70	± 1 -2.30	10.40			
6		12.8	12.9	12.85	0 1 -2.30	10.55			
7		13.7	13.7	13.70	0 0 -2.16	11.54			
8		14.1?	13.9	14.00	1 ± -2.02	11.98			
9		7.				7.			
10									
11									
12									
13									
14									
15									
16									

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1914phae.proj.1046M

Friday, October 9, 1914

Series R12 Alt – 11

Scale R Inc 4995 Orion 2nd Exp. P C.

	Sc 1	Sc. 2		Curve	Magn	Sc 1	Sc. 2		Curve	Magn
1	8.3 (8.6)	8.4	8.50 i1	-0.25	8.25	7.	13.7	13.4 13.55 i2	-5.17	8.38
2	8.9 (9.2)	9.2	9.20 00	-0.49	8.71		13.7	13.7 13.70 00	-5.14	8.56
3	7.	9.4		-0.57?	8.83?		13.9	13.8 13.85 i0	-5.08	8.67
4	7	11.3		-1.07	10.23		7.			F
5		11.7		-1.11	10.59					
6		11.8		-1.13	10.67					
7		12.9		-1.18	11.72					
8		13.3		-1.16	12.14					
9		13.7		-1.05	12.65					
10		13.7	13.4 13.55 i2	-1.09	12.46					
11		13.8	13.9 13.85 01	-0.95	12.90					
12		13.8	13.8 13.80 00	-0.96	12.84					
13		13.9	13.9 13.90 00	-0.88	13.02					
14		14.1?	7 14.10 2.							
15		7.	14.3? 14.32 2							
16										

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Friday, October 9, 1914

Series 212

Scale R. Inc 4996 Pole 1st Eyp. P C.

	Sc.1	Sc.2			Sc.1	Sc.2		
5	7.8 81.	B.			7. 12.4	12.7	12.3	12.47
6	8.7 90.	8.8	8.90	11		13.6	13.3	13.45
8	7.	10.4				14.2?	14.2?	14.20
9		10.8				7.	7.	
10		11.6						
11		11.9						
12	Wrong witness first.	12.3						
13		12.9	12.9	12.90	00			
14		13.2	13.4	13.30	11			
15		13.3	13.4	13.35	10			
16		13.7	13.7	13.70	00			
17		13.9	13.9	13.90	00			
18		14.1?	14.1?	14.10	00			
19		7.	7.					
20								
23								
25								
26								
27								
28								
29								
30								

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Friday, October 9, 1914.

Series 212

Scale R Inc 4996 Pole 2nd Exp. P. C.

	Sc. 1	Sc. 2		Sc. 1	Sc. 2		
5	5.8 61.	B.		7.	11.4	11.4	11.40 .00 11.20
6	6.8 71.	B.			11.9	11.8	11.85 .10 11.75
8	8.2 85.	8.3	8.40 .1		13.6	13.7	13.65 .01 13.60
9	8.8 97.	9.4	9.30 .1		13.9	13.8	13.85 .10 14.05
10	7	9.9			13.9	14.0	13.95 .10 14.00
11		10.8			14.1?		14.10 .0.
12		10.9					
13		11.6					
14		11.9					
15		12.2					
16		12.7					
17		12.9	12.9	12.90 .00			
18		13.3	13.3	13.30 .00			
19		13.7	13.6	13.65 .10			
20		13.7	13.8	13.75 .10			
23		14.0	14.0	14.00 .00			
25		14.2?	14.2?	14.20 .00			
26		7.					
27							
28							
29							
30							
31							

Sc 4 to 69

12.50

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Saturday. October 10, 1914

9.43 Series 212 (2nd half)

Scale R. mc 4996 Pole 1st Eyp

	Sc.1	Sc.2		mc 4999 p 87	Mean	Diff.	Sc.1	Sc.2	4999		
5	7.6	8.		7.4	7.65	3 2	-1.16	12.5 12.6	12.55	12.10	12.32
6	8.5	8.5	8.65 4.2 1	8.2	8.42	23 22	-1.31	13.4 13.3	13.35	13.20	13.28
8	7.	10.3		9.9	10.10	2 2	-1.87	14.3 7.	14.30	14.00	14.15
9		10.9		10.6	10.75	1 2	-1.92	7	9		
10		11.3		10.9	11.10	2 2	-2.08				
11		11.9		11.5	11.70	2 2	-2.15				
12		12.3		11.9	12.10	2 2	-2.24				
13		12.8		12.3	12.55	2 3	-2.25				
14		12.9	13.1 13.00	12.7	12.85	15 15	-2.20				
15		13.4	13.3 13.35	13.1	13.22	13 12	-2.14				
16		13.7	13.7 13.70	13.10	13.40	30 30	-2.00				
17		13.8	13.7 13.75	13.50	13.62	13 12	-1.99				
18		13.9	14.0 13.95	13.75	13.85	10 10	-1.79				
19		7.	7 9	13.90	13.90	. 0	-1.48				
20				14.20	14.20	. 0	-1.47				
21				9	.	.	.				
25											
26											
27											
28											
29											
30											

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Saturday, October 10, 1914

Series 212 (2nd half)

Scale R Mc 4996 Pole 2nd Exp. P.E.

Diff	Sc 1	Sc.2		mc 4999 μ87	Mean.	Diff	Sc.1	Sc.2	Sc.2		mc 4999 μ87	Mean	Diff
-5.83	55.8 61.	B		6.1	6.10	0 0	0.39		11.3	11.4	11.35	11.20	11.28	-4.79
-6.17	66.9 77.	B.		7.0	7.10	1 1	0.01		11.8	12.1	11.95	12.00	11.98	-4.87
-5.92	78.2 85.	8.6	8.55 1.0	8.55	8.55	00 00	-0.32	13.4	13.3	13.7	13.47	13.25	13.36	-5.13
	9 9.0 9.3	9.6	9.45 1.2	9.35	9.48	0 05 05 12 13	0.57 -0.65		13.7	13.9	13.85	13.80	13.82	-4.99
	10 7.	10.1		9.9	10.00	1 1	-0.98		13.9	13.9	13.90	13.95	13.92	-4.90
	11	10.7		10.7	10.70	0 0	-1.15		14.2?	14.2?	14.20	,	14.20	-4.65
	12	10.9		10.9	10.90	0 0	-1.04				7.			
	13	11.4		11.3	11.35	0 1	-1.05							
	14	11.9		11.9	11.90	0 0	-1.25							
	15	12.2		12.1	12.15	0 1	-1.07							
	16	12.4		12.2	12.30	2 1	-0.90							
	17	12.9	12.8 12.85 1.0	12.8	12.82	03 02	-1.19							
	18	13.2	13.1 13.15 0.1	12.90	13.02	13 12	-0.96							
	19	13.5	13.8 13.65 1.2	13.25	13.45	20 20	-1.03							
	20	13.7	13.7 13.70 0.0	13.60	13.65	05 05	-0.92							
	23	13.9	13.9 13.90 0.0	14.20	14.05	15 15	-0.71							
	25	14.1	14.2 14.15 1.0	14.28	14.20	05 08	-0.33							
	26	7.	7.	F	. . .									
	27													

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Series 212 (2nd Roll)

Scale P	Mc +997	Neptune	1st Eqn.		P.C.		
	Sc.1	Sc.2	Curv	Magn	Sc.1	Sc.2	
1	9.0 9.3	9.7 9.5	9.50 .20	-1.66 7.84	7.	13.8 13.8	13.80 .00 -6.05 7.75
2	7.	11.6		-2.14 9.46		7. 7.	F
3		12.6		-2.20 10.40			
4		13.2 13.1	13.15 .01	-2.12 11.03			
5		13.5 13.4	13.45 .10	-2.01 11.44			
6		13.5 13.6	13.55 .10	-1.96 11.59			
7		14.0 14.1?	14.05? .01	-1.50 12.55?			
8		13.9 13.9	13.90 .00	-1.65 12.25			
9		7. 7.		F			
10							
1a	7.	10.9		-2.03 8.87	7.	7.	

2nd Eqn.

	Sc.1	Sc.2			Sc.1	Sc.2	
1	7.8 8.1	B.		-0.21 7.89	7	12.9 12.9	12.90 .00 -5.05 7.85
2	7.	10.3		-0.96 9.34		14.2? 14.1?	14.15 .01 -4.76 9.39
3		11.4		-1.10 10.30		7 7.	F
4		11.9		-1.12 10.78			
5		12.3		-1.13 11.17			
6		12.7 12.6	12.65 .10	-1.11 11.54			
7		13.1 12.9	13.00 .11	-1.05 11.95			
8		13.0 13.0	13.00 .00	-1.05 11.95			
9		13.7 13.8	13.75 .10	-0.86 12.89			
10		13.8 13.8	13.80 .00	-0.83 12.97			
1a	8.9 9.2	9.2	9.20 .00	-0.59 8.61	7.	13 9.1 13.9	13.85 .01 -4.97 8.86

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Saturday October 10, 1914

Series 212 (2nd half)

Scale R Inc 4998 Praesepe 1st Eff. alt. +18 P.C.

	Sc.1	Sc.2	Sc.3		Curve	Magn	Sc.1	Sc.2			
a	6.9						7.	11.8	11.8	11.80 00	-4.89
b	7.5		B.		-1.18	6.62		12.7	12.7	12.70 00	-5.99 6.71
d	7.8		P.		-1.24	6.86		12.5	12.7	12.60 1.1	-5.98 6.62
g	8.8		9.1	9.10 00	-1.54	7.56		13.4	13.4	13.40 00	-6.10 7.30
k^2	8.9		9.2	9.25 01	-1.58	7.67		13.7	13.6	13.65 10	-6.09 7.56
k^3	7.		9.9		-1.78	8.12		13.9			-6.02 7.88
k^4	7.		10.4		-1.92	8.48		14.2?			-5.89 8.31
k^5			10.9		-2.03	8.87		7			" "
k^2			11.7		-2.15	9.55					
k^3		11.5	11.4	11.7	11.53 0.2	-2.13 9.40					
n'			11.9		-2.19	9.71					
n^2			12.3		-2.20	10.10					
o			12.2		-2.20	10.00					
n			12.6		-2.20	10.40					
s			12.9	13.2	13.05 1.2	-2.18 10.87					
t			13.3	13.3	13.30 00	-2.07 11.23					
u			13.4	13.6	13.50 1.1	-2.00 11.50					
w			13.3	13.1	13.20 1.1	-2.11 11.09					
z			13.8	13.9	13.85 01	-1.75 12.10					
α			14.2?	14.2?	1420? 00	-1.25 12.95					
β			7.	7.	. .		F				
γ											
δ											
ε											
ζ											
η											
θ											
λ											

P.C.

Sc.1 Sc.2

9.4 9.1 7.7 7.4

960 2.2 -1.70 7.90 7. 13.9 13.9

13.9-14.3 13.7

13.4-13.9 13.6

7. 12.3 12.5

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Series 212 (2nd Roll)

Scale R. Inc +998 Praesepe 2nd Exp Alt. +18 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
a	5.5 5.2					7.	10.8	10.8	10.80 00 -4.68	6.12
f	6.6 7.1			0.09	7.19		11.3	11.3	11.30 00 -4.78	6.52
d	5.8 6.1			0.35	6.45		11.4	11.4	11.40 00 -4.80	6.60
g	6.8 7.1			0.09	7.19		11.9	12.1	12.00 11 -4.93	7.07
h^2	7.2 7.5		B.	-0.03	7.47		12.3	12.4	12.35 10 -4.99	7.36
h^3	7.9 8.7	8.1	8.15 01	-0.23	7.92		13.0		-5.06	7.94
h^4	8.8 9.1	8.3	8.7 8.70 44 0	-0.40	8.30		13.3		-5.07	8.23
h^5	7.	9.8		-0.82	8.98		13.9	13.9	13.90 00 -4.90	9.00
k^2		10.6		-1.03	9.57		7.			7 =
Omitted by mistake k^3		~~10~~								
n'		10.6		-1.03	9.57					
n^2		10.9		-1.07	9.83					
o		10.9		-1.07	9.83					
r		11.2		-1.09	10.11					
s		11.8		-1.12	10.68					
t		12.3		-1.12	11.08					
u		12.6		-1.11	11.49					
w		12.4	12.6 12.50 11	-1.12	11.38					
z		12.9	13.0 12.95 10	-1.07	11.88					
α		13.5	13.5 13.60 11	-0.89	12.71					
β		13.2	13.4 ~~13.30 11~~	~~-0.93~~	~~12.37~~					
γ		13.9	13.7 13.85 10	0.82	13.03					
δ		14.1?	14.2? 14.15 10	-0.71	13.44?					
ε		7.			8 = 12					

wrong star meas. there. β is fainter than α, another star the following was meas. instead of β. O. July 19, 17.

P.C.

Sc.1 Sc.2 Sc.2

ζ							
η							
b							
θ							
λ							
x	7.9 8.1	R.	-0.21	7.89	B.	7	12.9 13.0 7.85
y	5.8 6.1		0.35	6.45 5.75	B.	7	11.3 11.2 6.45

12.90 -5.05

11.25 -4.77

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Saturday, October 19, 1914

Series 212 (2nd Half) copied.

Scale R Inc +49° S Cancri 1st Eq alt. +.18 P.C.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2			Curve	Magn
a	8.8 9.1	8.1	9.10	00	-1.54	7.56	7.	13.8	13.7	13.75	01 -6.06	7.69
á	7.8 8.7	9.1	8.15	01	-1.27	6.88		12.8	12.7	12.75	01 -6.00	6.75
b	9.1 9.4	9.2	9.30	11	-1.59	7.71		13.8	13.9	13.85	01 -6.03	7.82
c	7.	9.6			-1.70	7.90		13.8	13.9	13.85	01 -6.03	7.82
c'		9.8			-1.74	8.06		13.9	13.8	13.85	10 -6.03	7.82
d		9.8			-1.74	8.06		14.1?		14.17	01 -5.94	8.16
e		11.5			-2.12	9.38		7.				∫
e'		11.7	11.6	11.65	10 -2.14	9.51						
f		11.5	11.6	11.55	10 -2.13	9.42						
f'		12.3	12.2	12.25	10 -2.20	10.05						
h		12.9	12.9	12.90	00 -2.18	10.72						
g		11.9	11.9	11.90	00 -2.19	9.71						
l		13.4 13	13.3	13.35	01 -2.04	11.31						
m		13.7	13.7	13.70	00 -1.83	11.87						
n		7.				∫						
Var.	7.	9.7			-1.72	7.98	7.	14.0	14.1?	14.05?	-5.96	8.09

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Saturday October 10, 1914

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Series 212 (2nd half)

Scale R Mc 4998 S Cancri 2nd Exp. Alt. +.18 P E.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
a	7.0			0.03	7.33	7	12.3	12.5	12401 1	-5.00 7.40
a'	6.2			0.25	6.75		11.7	11.7	11.70 00	-4.85 6.85
b	7.3	B.		-0.07	7.67		12.7	12.9	12801 1	-5.04 7.76
c	7.4	B.		-0.09	7.61		12.8	12.8	12800 0	-5.04 7.76
c'	7.9	8.2	820 00	-0.25	7.95		12.8	12.9	12851	-5.05 7.80
d	8.2	8.3	8.40 1 1	-0.31	8.09		13.2			-5.08 8.12
e	7	10.2		-0.94	9.26		7.			7
e'		10.3		-0.97	9.33		12.9			-4.91 8.99
f		10.1		-0.92	9.18		14.0			-4.85 9.15
f'		11.3		-1.09	10.21		7.			7
h		11.8	11.9	11.85 01	-1.12	10.73				
g		10.9	10.9	10.90 00	-1.07	9.83				
k		12.2	12.4	12.30 1 1	-1.13	11.17				
m		12.7	12.8	12.75 1 0	-1.10	11.65				
n		12.9	12.9	12.90 00	-1.08	11.82				
Var.	7.8	8.0	05 10 8.18 01		-0.21	7.89	7.	12.9		

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Saturday. October 10, 1914

Series 212 (2nd half)

Scale R Mc 4999 Pole 1st Eph

	Sc.1	Sc.2			Sc.1	Sc.2		
					7.	12.1	12.1	12.10
5	7.1 74.	B.			wrong im.	13.1?	13.3?	
6	7.9 82.	B.			mean Sept.	~~14.4~~	~~12.7~~	13.20?
8	7.	9.9			Reclaim def.	14.0	14.0	14.00
9		10.6				7.	7.	1
10		10.9						
11		11.5						
12		11.9						
13		12.3						
14		12.7						
15		13.1						
16		13.1	13.1	13.10 00				
17		13.4	13.6	13.50 1.1				
18		13.7	13.8	13.75 1.0				
19		13.9	13.9	13.90 00				
20		14.3?	14.1?	14.20? 1.1				
23		7.	7.					
25								
26								
27								
28								
29								
30								

See p 80

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1914phae.proj.1046M

Saturday, October 10, 1914

Series 212 (2nd half)

Scale R Mc 4999 Pole 2nd Eye P.C.

	Sc.1	Sc.2		Sc.1	Sc.2		
5	5.8 6.1.	B.			11.3	11.1	11.20
6	6.9 7.0.	B.		Wrong im. made first.	12.1 ~~11.5~~	11.9	12.00
8	8.4 8.7.	8.4	8.55 1.2		13.1	13.4	13.26
9	9.0 9.3.	9.4	9.35 1.0		13.7	13.8	13.80
10	7.	9.9			14.0	13.9	13.95
11		10.7			7.		
12		10.9					
13		11.3					
14		11.9					
15		12.1					
16		12.2					
17		12.8					
18		12.8	13.0	12.90 1.1			
19		13.21	13.3	13.25 0.1			
20		13.5	13.7	13.60 1.1			
23		14.3?	14.1?	14.20? 1.1			
25		14.2?	14.3?	14.25? 0.1			
26		7.	7.				
27							
28							
29							
30							

1.05

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Monday, October 19, 1914

Pole plates discordant. Delay reduction.

9.50 Series 72

Scale R. mc 3159 Pole P.C.

	Sc.1	Sc.2					Sc.1	Sc.2		mc 3164	mc 3170	Mean
5							8.5	8.7		8.60	8.90	8.75
6							7.	9.7	9.8	9.75	9.80	9.78
8								11.2	11.3	11.25	11.50	11.38
9					mc 3164	mc 3170	Mean	Diff	12.0	12.00	12.25	12.13
					+93	+99						
10	6.3				6.4	6.5	6.50	2.52	12.8	12.80	12.45	12.63
11	6.8				6.5	7.7	7.10	2.45	13.3		13.0	13.2
12	7.3				7.2	8.45	7.75	2.11	13.9		13.2	13.6
13	8.0				8.0	9.20	8.50	1.80	13.9?		14.0	14.2
14	8.7	8.9		8.95	8.20	9.9	9.02	1.63			n.s	
15	9.0	9.4	9.6 9.8	9.52	9.00	10.1	9.54	1.54				Diff
16		10.0			9.55	10.7	10.08	1.32		no 5		−.206
17		10.4			10.0	11.1	10.50	1.13		6		−.242
18		11.2			11.0	11.4	11.20	0.86		8		−.310
19		11.7	11.6	11.65	11.70	11.9	11.75	0.67		9		−.329
20		12.2	12.2	12.20	12.05	12.30	12.18	0.55		10		−.355
23		12.8	12.7	12.75	12.95	12.95	12.88	0.46		11		−.362
25		13.7	13.8	13.75	13.65	13.50	13.63	0.24		12		−.371
26		14.1?	14.1?	14.10	14.00	13.80	13.97	0.36		13		−.373
27		7.	7.	. .	14.20	14.00	14.10	0.59				
28												
29												
30												

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1914phae.proj.1046M

Monday, October 19, 1914

Series 72

Scale R Int 3161 1247 R Cori Pe.

	Sc.1	Sc.2	Sc.1	Sc.2	
Too far from centre	a				
Too far from centre	c		7	10.7 10.8	10750
" " " "	b				
" " " "	d			11.9 11.9	11.900
" " " "	d'			12.7 12.8	12750
	g	7.7 8.0	B.	13.4 13.3	13350
	f	7.7 8.0	B.	13.6 13.4	13501
	e	7.7 8.0	B	13.7	
" " " "	h			7.	
	k	7.	9.9		
	l		9.8		
	n		9.9		
	m		10.9		
	o		10.9		
	p		11.8		
	q		12.8 12.1	12150	
	r		12.9 12.8	12850	
	s		13.1 13.1	13100	
	t		13.4 13.3	13350	
	t'				
	x		13.8 13.8	13800	
	u		7 7. . .		
Var.			m.s		

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1914phae.proj.1046M

Monday October 19, 1914

Series 72.

Scale R. Inc 3162. 126 V. T. Tus. Maj. P. C.

	Sc. 1	Sc. 2		Sc. 1	Sc. 2	
a	.	.		8.8 9.1	9.2	9.15 1 0
b	.	.		10.7	10.9	10.80 1 1
c	.	.			11.1	11.2	11.15 1 0
d	.	.		.	.	
e	2.9 3.7			7.	10.7	10.8	10.75 1 0
f	5.9 6.7				12.1	12.0	12.00 0 0
g	5.7 6.0				12.2	
g'	.	.			12.8	
g''	.	.			.	
h	6.9 7.7	B.			13.3	
h'	7.6 7.9	B.			13.9	
k	8.0 8.3	8.0	8.15 12		7.	
l	8.9 9.7	9.1	9.15 01			
m	9.0 9.3	9.5	9.40 11			
n	7.	10.2				
o	Defective	11.2				
p		11.7				
q		11.8	11.8	11.80 00		
r		11.9	11.9	11.90 00		
s	Close to a scratch.	12.3	12.1	12.6	12.23 02 3	
t		13.8	13.8	13.80 00		
u		13.7	13.7	13.70 00		
w		13.7	13.6	13.65 10		
x						
y						
				—		
Var.		13.3	13.6			

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1914phae.proj.1046M

Monday October 19, 1914

Series 72

Scale R M c 3163 127 J R Virginis P c.

	Sc.1	Sc.2		Sc.1		Sc.2	
a	.	.		6.9 6.6	7.1 6.8	B.	7.00 L 1
c	.	.		.	.	.	
b	.	.		.	7.	10.2	10.1 10.15 01
d	.	.				10.2	10.3 10.25 01
e	.	.		Im. elongated		10.7	10.4 10.55 12
f	.	.				11.4	11.4 11.40 00
h	.	.				11.1	
g	.	.				11.5	
k	.	.				11.7	
l	.	.				12.3	
m	7.0 6.7	B.				13.3	
n	7.2 6.9	B.				13.5	
o	.	.				13.9	
p	8.8 8.5	9.0	8.90 L 1			7.	
q	9.0 8.4	8.9	8.95 01				
r	7.	9.8					
s	7.	10.5					
t		10.9					
u		11.8	11.8 11.80 00				
w		12.5	12.6 12.55 10				
x		13.3	13.2 13.25 10				
y		12.3	13.4 13.35 10				
z		13.7	13.9 13.75 10				

Wrong scale

Var. 7.7 B. 7. 10.7 10.9 10.80 L 1

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1914phae.proj.1046M

Monday October 19, 1914

Series 72

Scale R Inc 3164 Pole P.C.

	Sc.1	Sc.2			Sc.1	Sc.2		
5	.				8.6 89.	8.9		8.90
6	.				7.	9.7	9.9	9.80
7	.					11.4	11.6	11.50
9	.					12.2	12.3	12.25
10	6.1 64.				~~10.0~~	12.4	12.5	12.45
11	6.2 65.					13.0		
Defective 12	6.9 72.	B.				13.2		
13	7.7 80.	B.				14.0		
8.0 83. 14	8.1 84.	8.0	8.1	8.20 12 2 1		m.s.		
15	8.8 91.	8.9		9.00 11				
16	9.1 94.	9.7		9.55 2 1				
17	7.	10.0						
18		11.0						
19		11.7	11.7	11.70 00				
20		12.0	12.1	12.05 01				
23		13.0	12.9	12.95 01				
25		13.6	13.7	13.65 01				
26		14.0	14.0	14.00 00				
27		14.2?	14.2?	14.20 00				
28		7.						
29								
30								

See p 89

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1914phae.proj.1046M

Monday, October 19, 1914

Series 72.

Scale R	m.e 3165		1347	R Cam. Ven.		P.C.	
	Sc.1	Sc.2		Sc.1	Sc.2		
c							
b							
a							
d							
f							
e				7.	11.9	11.9	11.90 00
g					12.1	12.1	12.10 00
h					12.9	12.9	12.90 00
k	8.0 7.7	B.		13.5	13.3	13.6	13.47 0 ± 1
l					13.3	13.3	13.30 00
Wrong scale 8.5 8.2 8.4	m 8.7 8.4	8.3	8.3 8.45 13 1 1		7.	14.3?	
	m 8.4 8.1	8.4	8.40 00			14.3?	
	p 9.3 9.0	9.2	9.25 10			14.3?	
Wrong scale 9.4 9.1 9.2	o 9.3 9.0	9.8	9.3 9.38 100			n.s.	
	q 7.	10.2					
	t	10.6					
	r	11.1					
	s	12.1					
	u	11.7					
	w	12.2					
	x	12.9	12.6 12.75 12				
	y	12.9	12.9 12.90 00				
	z	13.7	13.7 13.70 00				P.C. Sc.1 Sc.2
	α'	13.6	13.7 13.65 01				
	β	13.8	13.8 13.80 00	B	14.3?	7.	
	γ	13.9	13.9 13.90 00				
	δ	14.1?	14.2? 14.20 ? 10	Var.	5.4	B.	7. 12.0
Repeat 9.7 m	ε	14.0	14.1? 14.05 ? 01				

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1914phae.proj.1046M

Monday October 19, 1917

Series 72

Scale R Inc 3166 130 M. P.C.

	Sc.1	Sc.2			Sc.1	Sc.2		
1					7.	12.4	12.0	12.00 00
2	6.3 6.0	B.				12.4	12.7	12.55 2/
3	.	.				13.7	13.7	13.70 00
4	8.5 8.2 8.5 8.2	8.1	8.2	8.32 22 2/		14.0	14.0	14.00 00
5	8.5 8.2 8.7 8.4	8.2	8.3	8.42 13 2/		14.0	14.0	14.00 00
6	.	9.1				14.2?		
7	7.	10.1				m.s.		
8		10.3						
9		9.8	9.9	9.85 01				
10		10.7	10.7	10.70 00				
11	.	.						
12	.	.						
13	.	.						
14	.	.						
15	.	.						
16		13.2	13.1	13.15 01				
17		13.7	13.6	13.65 10				
18		13.8	13.9	13.85 01				

Im. elong.

All images on this plate elongated. Remark omitted while measuring. The plate is to be reduced however (H.S.R. Oct. 20, 1914) and afterward in case of discordance, rejected. G.F.M. Oct. 29, 1914

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1914phae.proj.1046M

Monday October 19, 1914

Series M 2

Scale R me 3167 S Boston P.C.

	Sc.1	Sc.2			Sc.1	Sc.2		
a	B.				8.4 8.7	8.7		870 00
a'	1.0 1.3				9.0 9.3	9.1		920 1 1
a^2	.	.			7.	10.2	10.1	1015 0 1
f	.	.				10.7	10.9	1080 1 1
f'	.	.				11.7	11.9	1180 1 1
c	6.6 6.9	B.				12.2		
d	.	.				12.6		
e	.	.				14.0		
f	8.0 8.3	B.				13.9		
f'	.	.				14.1?		
g	7.	9.7				7.		
h		10.1						
k		10.7						
l		11.1						
l'		11.3						
m		11.9						
n		12.2						
o	12.3	12.7	12.3	12.43 1 3 1				
p		12.9	12.9	1290 00				
q		13.9	13.9	1390 00				
r		14.3?	14.2?	1425 10				
s		7.	7.	.				
r'		13.9	14.0	1395 1 0				
r^2		13.9	13.9	1390 00				
Var.	7 12.7	12.3	12.4	1247 2 2 1		7.		

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1914phae.proj.1046M

Monday October 19, 1914

Series 72

Scan R	Inc 3168		139 V	RS Bootis		P. C.		
	Sc. 1	Sc. 2		Sc. 1		Sc. 2		
α		B.		7.6 (7.9)		8.0		7.95 1.0
β		2		7.		9.9	10.0	9.95 1.0
γ		2				12.8	12.8	12.80 00
δ		2				13.9	13.9	13.90 00
ζ		2				13.1	13.4	13.25 1.2
ζ'		2				13.4		
d	9.0 (9.3)	9.5	9.40 1.1			7.		
f	9.1 (9.4)	9.8	9.7 9.63 2.21					
e	7.	9.8						
é		10.4						
c		10.7						
g		10.9						
ε		11.1						
k		11.8						
l		12.2	12.1 12.15 0.1					
m		12.2	12.3 12.25 0.1					
n		13.1	13.1 13.10 00					
o		13.7	13.7 13.70 00					
p		13.9	13.8 13.85 10					
Var	8.7 (9.0)	8.9	8.95 0.1			7.		

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1914phae.proj.1046M

Monday, October 19, 1914

Series T2

Scale R.	mc 3169 Sc.1	mc 3169 Sc.2	141 U	R Lu Boötis Sc.1	R Lu Boötis Sc.2	PC
1				7.	10.3	10.3 10300
2	5.0 5.3				11.8 11.9	11.85 01
3	6.8 7.1				12.9	12.8 12.85 10
4	6.7 7.0	B.			12.9	12.9 12.90 00
5	7.9 8.2	8.1	8.15 01		14.0	13.9 13.95 01
6	8.8 9.2	9.1	9.15 01		14.0	
7	7.	10.8			7.	
8		11.2				
9		11.7				
10		12.1				
11		12.3	12.4 12.35 10			
12		12.9	12.9 12.90 00			
13		13.3	13.2 13.25 10			
14		13.5	13.4 13.45 10			
15		13.7	13.8 13.75 10			
? Var.		13.9	14.0 13.95 10		7	

Wrong unit

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1914phae.proj.1046M

Monday October 19, 1914

Series 72

Scale R. To c 3170 Pole

	Sc.1	Sc.2			P.C. Sc.1	Sc.2	Sc.2	
5	.	.			8.0 (8.3)	8.0		8.15
6	.	.			8.8 (9.1)	9.0		9.05
8	.	.			7.	11.2	11.3	11.25
9	.	.				12.1	12.1	12.10
10	6.2 (6.5)				12.4	12.3	12.7	12.47
11	7.4 (7.7)	R.				13.2		
12	8.3 (8.6)	8.3	8.45	21	Blurred →	13.6		
13	8.9 (9.2)	9.2	9.20	00		14.2?		
14	7.	9.9						
15		10.1						
16		10.7						
17		11.1						
18		11.4						
19		11.9						
20		12.3	12.3	12.30	00			
23	13.0	*~~12.4~~	12.9	12.95	01			
25		13.5	13.5	13.50	00			
26		13.8	13.8	13.80	00			
27		14.0	14.0	14.00	00			
28		7. 7.						
29								

See p 89

(27m out)
3.10

* Reject

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1914phae.proj.1046M

Thursday, October 29 1914

11.08

T' Plate for R Cassiopeiae :

Scale R

I 360 27

N.P.S.

	Sc.1	Sc.2		
5	.	.		
6	.	.		
8	.	.		
9	.	.		
10	7.	9.7	9.9	9.80 1 1 - 0.78
11		10.7	10.5	10.60 1 1 - 1.05
12		10.9	11.1	11.00 1 1 - 1.14
13		11.9	11.8	11.85 1 0 - 1.55
14		12.2	12.2	12.20 0 0 - 1.55
15		12.6	12.4	12.50 1 1 - 1.42
16		12.8	12.7	12.75 0 1 - 1.35
17		13.2	13.1	13.15 0 1 - 1.52
18		13.7	13.7	13.70 0 0 - 1.64
19		7.	7.	. .
20				
25				
25				
26				
27				
28				

P.C.

	Sc.1	Sc.2		
	7	12.8	12.7	12.75 0 1 - 6.26
	Strong.	13.1	13.1	13.10 0 0 - 5.99
		7	.	
		7	.	

P.C's rejected :- no curve drawn - see curve sheet 103.

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1914phae.proj.1046M

Thursday, October 29, 1914

T' Plate

Scale R I 36027 (cont) R. Cassiop. −0.02 P.C.

	Sc.1	Sc.2		Curve Magn.	Sc.1	Sc.2		
g	6.2 (6.5)				7.	14.0	14.0 ?	14.00 00
h k	5.6 (5.9)				7.	13.0	13.3	13.15 21
k	7.2 (7.5)				7.			
l	8.7 (9.0)	8.7	8.85 2 1					
m	7.9 (8.2)	B.						
n	7.	10.0		11.4	11.14	−0.85	9.15	
n'		10.3	10.1 10.20 11	10.7	11.27	−0.93	9.27	
n²		11.1		0.77	11.87	−1.23	9.87	
o		11.8		0.56	12.38	−1.42	10.38	
o'		11.7		0.61	12.31	−1.39	10.31	
p		* 13.7	13.9 13.80 1 1	0.45	14.25	−1.56	12.24	
q		11.9	11.9 11.90 0 0	0.57	12.47	−1.44	10.46	
r		12.4	12.3 12.35 0 1	0.49	12.84	−1.51	10.84	
s		7.	7.					
t	13.7	13.0	13.6 13.43 3 4 2	0.44	13.87	−1.58	11.88	
t'		13.6	13.8 ? 13.70 1 1	0.44	14.14	−1.55	12.15	
u		7.						
w								
w'								
x								
y								
z								
α								

* Reject. - too faint to identify - hazy.

Var. m.s.? —

12.28

Identifications of ft. stars not certain. Difficult

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Thursday, October 29, 1914

2.00 Series 340

Scale R | Mc 6495 | Pole | P.C.

	Sc.1	Sc.2		Mc 6500 Mean	Diff.	Sc.1	Sc.2	Mc 6580	Mean	Diff.
5					80. 7.7	7.8 7.0	B.	7.90 11 80	7.95 05 05	-146
6						8.5 8.2	8.7	8.60 11 8.55	8.58 02 03	-147
8					94.1 9.1	9.2 8.9	9.6	9.40 22 10.00	9.70 30	-147
9						7.	10.8	10.80 00 11.00	10.90 10 10	-207
10	5.6 5.3			5.5	5.55 01	3.47 7	11.1 10.9	11.00 11 10.95	10.98 02 03	-196
11	6.4 6.1			6.4	6.40 00	3.15	11.8	11.7	11.75 01	-220
12	7.0 6.9			6.9	6.95 01	2.91	11.9	11.9	11.90 00	-204
13	7.3 7.0			7.4	7.35 10	2.95	12.8	12.9	12.85 01	-255
14	8.1 7.8	B.		8.00	8.05 10	2.60	13.1	12.9	13.03 11	-235
15	8.6 8.3	8.4	8.50 11	8.3 8.40	10.10	2.68	13.7	13.5	13.75 10	-267
16	9.0 8.7	9.0	9.00 00	8.98	8.98 02 03	2.42	13.8	13.8	13.80 00	-240
17	9.2 8.9	9.3	9.25 01	9.44 9.38	13 12	2.25	14.0	14.1	14.05 01	-242
18	7.	10.1		10.0	10.05 10	2.01				
19		10.3		10.6	10.45 12	1.97				
20		10.9		10.9	10.90 00	1.83				
23		11.5		11.8	11.65 12	1.69				
25		11.9		12.2	12.05 12	1.82				
26		12.4	12.4 12.40 00	12.4	12.40 00 00	1.93				
27		12.9	12.9 12.90 00	12.90	12.90 00 00	1.79				
28		13.7	13.4 13.55 12	13.70	13.62 07 08	1.49				
29		13.9	13.8 13.85 10	13.75	13.80 05 05	1.86				
30		14.0	14.0 14.00 00	14.05	14.02 03	2.02				
31		7.	7.	14.00	14.00	a 2.28				

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1914phae.proj.1046M

Thursday October 29, 1914

Series 240

Scale R mc 6496 Cluster in Perseus Alt + 21 P.C.

Reference Sequence

Diff	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn
	47.					7.	10.1	10.1	10.10 00 – 1.68	8.42
0505 -1.46	13.9									
	53.									
0203 -1.47	25.0				3.53 8.83		10.7	10.7	10.70 00 – 1.89	8.81
	56.									
230 -1.47	30.3				3.44 9.04		11.3	11.1	11.20 11 – 2.07	9.13
	61.									
10 10 -2.07	45.8				3.27 9.37		11.3	11.3	11.30 00 – 2.09	9.21
	67.									
0203 -1.96	55.9				3.23 9.43		11.8	11.9	11.85 01 – 2.24	9.61
	70.									
01 -2.20	65.5				2.95 9.95		12.0		– 2.28	9.72
	77.									
00 -2.04	7.4		B.		2.74 10.44		12.4		– 2.38	10.02
	85.									
501 -2.55	8.2		8.4	8.45 10	2.52 10.97		13.3		– 2.54	10.76
	91.									
0 11 -2.35	6.8		9.1	9.10 00	2.32 11.40		14.2?		– 2.56	11.64 ?
510 -2.67	10 7.		9.9		2.06 11.96		7.		.	F
000 -2.40	11		10.2		1.98 12.18					
501 -2.42	12		10.7		1.88 12.58					
	13		11.3		1.79 13.09					
	14		11.2		1.80 13.00					
	15		11.6		1.78 13.38					
	16	11.9	12.4	12.0	12.10 21 1.76 13.86					
	17		12.6	12.3	12.45 21 1.76 14.21					
Scratched	18		12.8	12.9	12.85 01 1.76 14.61					
	19		13.0	13.3	13.15 21 1.76 14.91					
	20		13.7	13.7	13.70 00 1.78 15.48					

Do not copy in Bk. H.S.L. Dec. 15, 1914.
This seq. is ref. seq. for center of plate, not seq. selected by H.S.L. for Cluster.

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1914phae.proj.1046M

Thursday October 29, 1914 ~~Copied Bkg: 34~~

Series 340

Scale R Mc 6497 o Beti Ref. Seq. all + 03 P.C.

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2		Curve	Magn.
	54									
1	5.1			3.50	8.90	7	10.6	10.3	1045 2 1	-181 8.64
2	57 5.4			3.40	9.10		10.9	10.9	1090 00	-197 8.93
3	64 6.1			3.15	9.55	11.4	11.8	11.4	11.53 1 3 1	-215 9.38
4	67 6.4			3.05	9.75		12.0	12.0	1200 00	-228 9.72
5	76 7.3	B.		2.76	10.36		13.0	12.9	1295 01	-250 10.45
6	79 7.6	B.		2.68	10.58		13.1			-252 10.58
7	90 8.7	8.9	895 01	2.34	11.29		13.9			-256 11.34
8	92 8.9	9.1	915 01	2.28	11.43		14.0			-256 11.44
9	7.	9.9		2.07	11.97		7.			F
10		9.8		2.10	11.90					
11		10.1		2.02	12.12					
12		10.3		1.97	12.27					
13		10.9		1.84	12.74					
14		11.1		1.82	12.92					
15		11.3		1.79	13.09					
16		12.0	12.0 12.00 00	1.76	13.76					
17		12.4	12.6 12.50 1 1	1.76	14.25					
18		13.0	13.0 13.00 00	1.76	14.76					
19		13.2	13.4 13.30 1 1	1.77	15.07					
20		13.7	13.9 13.80 1 1	1.79	15.59					

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Series 340

Scale R mc 6497 O Ceti Alt. +.03 P.C.

		Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.1	Sc.2	Curve	Magn
	t	B.				6.8	6.7		705 10	. E
Double.	t'	B.				7.0	7.0		730 00	. E
	y	B.				7.9	7.2	B.	773 522	. E
	y'	2.5					8.0	8.1	820 11	−1.84 6.76
	z	B.					7.8	8.0	805 10	−1.84 6.61
	z'	3.0						9.0		−1.50 7.50
	α	3.1						8.8		−1.48 7.32
	α'	2.8						8.9		−1.48 7.42
	β	4.1						10.2		−1.73 8.47
	β'	See no. 1 p. 104			8.98					8.67
	δ	5.9			3.23 9.43			11.2		−2.07 9.13
	δ'	6.3	to.		3.08 9.68			11.9		−2.25 9.65
6.0	γ	6.1		635 10	3.17 9.52			12.1		−2.30 9.80
7.1	ε	7.1	B.	740 00	2.84 10.24			12.9		−2.48 10.42
	β	8.0	8.0	818 12	2.59 10.74			13.2		−2.53 10.67
	η	7.9	8.1	815 01	2.59 10.74			13.4		−2.58 10.85
	θ	8.3	8.7	865 01	2.46 11.11			13.7		−2.56 11.14
	Van.	7.1	B.		2.84 10.24			12.8		−2.56 10.24

47 33

"Reject Wrong star measured"

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Series 340

Scale R mc 6498 701Y abt. +17 P.C.

	Sc.1		Sc.2		Curve	Magn	Sc.1		Sc.2		Curve	Magn
	26.						9.4	*				
1	2.3						9.1		9.7		9.55 2.1	-1.56 7.97
	32.							*				
2	2.9						7.		9.8	9.8	9.80 0.0	-1.63 8.17
	67.											2.16 9.39
3	6.4		B		3.05	9.75			11.7	11.4	11.55 1.2	-1.67 9.88
	8.1.											
4	7.8		B		2.62	10.72			13.4	13.4	13.40 0.0	-2.55 10.85
	9.2.											
5	8.9		9.4		9.30 1.1	2.24 11.54			14.0	14.0	14.00 0.0	-2.56 11.44
6	7.		10.1			2.01 12.11			7.		,	, ,
7	7.		10.2			1.98 12.18						
8			10.4			1.94 12.34						
* 9			12.1			1.82 ~~13.72~~ 12.92						
10			11.4			1.79 13.19						
11			12.4			1.75 14.15						
12			12.4			1.75 14.15						
13			12.7	12.7	12.70 0.0	1.75 14.45						
14			12.8	12.8	12.80 0.0	1.75 14.55						
15			13.0	13.0	13.00 0.0	1.76 14.76						
16			13.0	13.2	13.10 1.1	1.76 14.86						
17		13.8	* 13.2	13.9	13.63 2.43	1.78 15.41						

* No. 9 measured by M.O.R. using Scale R - 10.8. The scale measure could not possibly be 12.1, therefore error of a unit is assumed. (In absence of mt.)
Approved by Miss Leavitt. Dec. 15, 1914

Nos. 1 and 2, p.c. examined H.S.L. as they seem to give magnitudes unduly faint. Measures seem to be correct. Jan. 16, 1915.
Examination of Curve of Reduction shows that reduction is correct.

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Thursday October 29, 1914

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Series 240

Scale R mc 6499 Z Persei alt. +73 P.C.

		Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
	a	4.6 49.					7	10.6	10.7	1075 01	-1.92 8.83
6.1	c	6.1 64.			640 00	3.15 9.55		11.9	11.9	1190 00	-2.25 9.65
	d	5.8 61.				3.26 9.36		11.7	11.7	1170 00	-2.20 9.50
	b	6.0 63.				3.20 9.50		12.0	12.0	1200 00	-2.28 9.72
	e	6.9 72.				2.90 10.10		12.6	12.6	1260 00	-2.43 10.17
	g	7.7 80.		B.		2.65 10.65		13.1			-2.52 10.58
	f	7.9 82.		8.0	8.10 11	2.62 10.72		13.7			-2.56 11.14
	h	8.1 84.		8.3	8.35 01	2.53 10.88		13.4			-2.55 10.85
	k	8.3 86.		8.8	8.70 11	2.44 11.14		13.8			-2.57 11.23
	k'	9.1 94.		9.3	9.35 01	2.22 11.57		14.0			-2.57 11.43
	m	9.2 95.		9.7	9.60 11	2.15 11.75		7.			
Difficult	l	7.		9.7		2.13 11.83					
	n			10.1		2.01 12.11					
	n'			10.4		1.94 12.34					
	n^2			11.1		1.82 12.92					
	o			11.5		1.78 13.28					
	p			11.9	11.9	11.90 00 1.77 13.67					
	q			12.3	12.3	12.30 00 1.75 14.05					
	r			12.2	12.2	12.20 00 1.76 13.96					
	s			13.0	12.9	12.95 01 1.76 14.71					
	t			13.1	13.1	13.1 00 1.76 14.86					
	Dec. 7.			11.1	11.0	11.05 10 1.83 12.88					

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Thursday October 29, 1914

Series 340

Sole R Mc 6h00 Pole Pc.

	Sc.1	Sc.2		Sc.1	Sc.2	
5				8.0 7.9	B.	
6				8.7 8.4	8.4	855 12
8				7.	9.9 9.1	1000 11
9					11.1 10.9	1100 11
10	5.5 5.2				10.9 11.0	1095 11
11	6.4 6.1				11.7	
12	6.9 6.6				11.9	
13	7.4 7.1	13.			12.9	
14	7.8 7.7	8.0	8.00 00		12.9	
15	8.4 8.1	8.2	8.30 11		13.8	
16	8.9 8.7	8.9	8.95 01		13.8	
17	9.4 9.1	9.6	9.50 11		14.1	
18	7.	10.0				
19		10.6				
20		10.9				
23		11.8				
25		12.3				
26		12.4				
27		12.9	12.9 1290 00			
28		13.7	13.7 1370 00			
29		13.8	13.7 1375 01			
30		14.0	14.1 1405 01			
31		14.0	14.0 1400 00			
32		7	7.			

Sent p 102

4.43

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Friday October 30 1914

9.45 Series 340 (2nd Pair)

Scale R Inc 6500 Pole

	Sc.1	Sc.2		Inc 6506 fr 118 Mean	Diff	Sc.1	Sc.2		Mean	Diff
5						7.5 7.4	B.	7.775 01	8.35 805	-156
6						7.9 8.2	8.1	8.15 01	860 838	-127
8						7	10.1	10.05 10	1005 1005	-182
9							10.9	10.90 00	1085 1088	-205
10	5.5			5.8	5.65 12	3.37	11.1	11.05 10	11.10 11.08	-206
11	6.0	6.3		6.3	6.30 00	3.25	11.9		11.8	-230
12	6.7	7.0		7.1	7.05 01	2.81	11.8		12.2 1200	-214
13	7.4	7.7	B.	7.5	7.60 11	2.70	12.9		12.9 1290	-260
14	7.7	8.0	B.	8.0	8.00 00	2.65	13.0		13.3 1315	-250
15	8.2	8.5	8.3	8.40 11	8.55	8.48 08 07	2.60	13.7		13.7 1370	-262
16	8.7	9.0	9.0	9.00 00	9.00	9.00 00 00	2.40	13.7		13.9 1380	-240
17	9.0	9.3	9.3	9.30 00	9.7	9.50 20 20	2.13	14.0		14.1 1405	-242
18	7		9.9		10.0	9.95 05	2.11	7.			
19	7		10.4		10.6	10.50 11	192	7.			
20			10.8		10.8	10.80 00	1.93				
23			11.4		11.4	11.40 00	194				
25			12.1		12.1	12.10 00	1.77				
26			12.3		12.45	12.35 08 07	195				
27			12.8	12.9	12.85 01	12.90	12.88 13 02	181			
28			13.3 13.1	13.3	13.30 00	13.30	13.30 00 00	181			
29			13.7	13.8	13.75 10	13.90	13.82 07 08	184			
30			14.0	14.0	14.00 00	14.00	14.00 00 00	204			
31			13.9	13.9	13.90 00	.	13.90 a .	232			
32			13.9	14.0	13.95 10	.	13.95 a .	267			
33			7.	7	.						

Mean defect.

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Series 240 (2nd half)

Scale R Inc 6501 D2 alt -18 P C.

	Sc.1	Sc.2	Curve, Magn	Sc.1	Sc.2	Curve, Magn
	3.9			9.0		
1	3.6			8.7	8.9	8.95 01 — 1.48 7.47 (54 51)
	4.3					1.76 7.99
2	4.0			7.	9.7	9.75 10 — 1.62 8.13
	3.7			8.8		1.50 .5
3	3.4			8.5	8.7	8.75 01 — 1.48 7.27
	4.2					1.83 17
4	3.9			7	10.0	10.00 00 — 1.66 8.34
	5.2					
5	4.9			Defective		
	6.5		.2 .2			2.04 .66
6	5.2		3.47 8.97	10.7	10.7	10.70 00 — 1.87 8.83
	5.4		.44 .34			2.02 .63
7	5.1		3.58 8.88	10.6	10.7	10.65 01 — 1.86 8.80
	5.3		.46 .76	5		.93 .57
8	5.0		3.53 8.83	10.4		— 1.83 8.67
	5.9		.0 .0			2.08 .82
9	5.6		3.35 9.25	10.9		— 1.97 8.93
	6.7		.0 .0			1. .0
10	5.9		3.23 9.43	11.2		— 2.17 9.13
	6.5					.8 .42
11	6.2		3.12 9.62	11.7		— 2.24 9.50
	6.7		.4 .4			.35 .55
12	6.4		3.05 9.75	11.9		— 2.26 9.64
	7.0					.36 .64
13	6.9		2.94 9.94	12.0		— 2.28 9.72
	7.4		.2 .2			.54 .36
14	7.1	B,	2.83 10.23	12.9		— 2.48 10.47
	8.0		.4 .4			.4 .6
15	7.7	B,	2.65 10.65	13.4		— 2.55 10.85
	8.1		.5 .0			.4 .6
16	7.8	7.95 12	2.67 10.62	13.4		— 2.58 10.85
8.1 84	8.6					.0 .30
17	8.2	8.40 022	2.52 10.92	13.8		— 2.58 11.24
	9.2		.9 .4			.0 .30
17a	8.9	9.15 01	2.28 11.42	13.8		— 2.56 11.24
	9.1					.47 .53
18	8.8	9.0 905 10	2.32 11.37	14.0		— 2.56 11.44
19	7.	9.4	2.21 11.61	14.1		.45 .65 — 2.56 11.37
20		9.7	2.13 11.83			
	7.0		2.00 .30 .03			
21		10.3	X.9X 12.2X			
22		10.6	.5 .5			
			1.99 12.58			
23		10.9	92 .82			
			1.8X 12.XX			
Double. 24						
			185 .45			
25		11.6	178 13.88			
			183 .63			
26		11.8	177 13.87			

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Series 340 (2nd half)

Scale R mc 6501 (cont.) D2 Pc.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
				.81	.91	7	7
27		12.1		178	13.88		
				.9	.9		
28		12.3		178	14.08		
				.9	.9		
29		12.3		178	14.08		
				.80	.90		
30		13.1		176	14.86		
				.80	15.00		
31		13.3		176	14.96		
				.80	.5		
32		13.1	13.2	1315 10	176	14.9X	
				.94	.79		
33		13.9	13.8	1385 10	178	15.6X	
				.94	.79		
34		13.8	13.9	1385 01	178	15.6X	
				.94	.79		
35		13.9	13.8	1385 10	178	15.6X	
				2.12	1612		
36		14.0	14.0	1400 00	1.78	15.79	

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Friday October 30, 1914

Series 340

Scale R Pm C 6502 1119 T alt. -17° Pc

	Sc.1		Sc.2	Curve	Magn	Sc.1		Sc.2	Curve	Magn
	46'							10.2		
1	4.3					7		9.9	10.1	10.15 01 -1.88 8.27
	54'									
2	5.1			3.44	8.84	7		10.8	10.9	10.85 01 -2.07 8.78
	64'			3						
3	6.1			3.17	9.54			11.6	11.8	11.70 11 -2.29 9.41
	67'			2						3
4	5.9			3.10	9.31			11.7	11.9	11.80 11 -2.81 9.49
	72'			88	88					
5	6.9			2.84	10.74			12.3	12.3	12.30 00 -2.45 9.85
	77'									
6	7.4			2.73	10.43			12.9		-2.53 10.37
	79'									
7	7.6		B.	2.67	10.57			12.9		-2.53 10.37
	85'							4		
8	8.2		8.4	8.45 10	2.52 10.97			13.9		-2.89 11.41
	91'									
9	8.8		8.9?	9.00 11	2.34 11.34			14.0		-2.47 11.53
10	7.		9.2		2.27 11.47	7.				
11			10.2		2.01 12.21					
12			10.7		1.94 12.64					
13			11.4		1.87 13.27					
14			11.8		1.83 13.63					
15			12.9	11.9	11.90 00 1.83 13.73					
16			12.6	12.4	12.50 11 1.78 14.28					
17			12.9	12.9	12.90 00 1.77 14.67					
18			13.3	13.3	13.30 00 1.79 15.09					
19			13.8	13.7	13.75 01 1.90 15.65					

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Friday October 30, 1914

Series 340

Scale R mc 6503 RW Tauri Pf. Seq. alt. +21 Pc.

	Sc.1	Sc.2		Curve	Magn.					Sc.1	Sc.2		Curve	Magn.
						mc 9318		Mean						
1	4.3								8.70	10.1	10.1	10.10 00	−.198	8.20
2	5.8				3.28	9.33	9.54	9.53	9.54	00,01	11.5	11.6	11.55 10	−.227	9.28
3	6.1				3.18	9.54	9.75	9.89	9.82	07,07	11.8	11.8	11.80 00	−.231	9.49
4	6.5				3.03	9.81	10.02	10.25	10.14	12,11	12.4	12.3	12.35 01	−.246	9.89
5	7.4			7.60	2.78	10.35	10.56	10.70	10.63	07,07	12.9	12.8	12.85 10	−.252	10.33
6	7.0			7.35	2.84	10.19	10.40	10.59	10.50	10,09	12.8			−.252	10.28
7	7.6				2.68	10.57	10.78	11.17	10.98	20,19	13.2			−.254	10.66
8	8.3	8.6		8.60	00	2.47	11.07	11.28	11.41	11.34	06,07	14.0		−.247	11.53
9	8.4	9.8	9.3	9.43	2.41	2.21	11.64	11.85	12.20	12.02	17,18	14.0		−.247	11.53
10	7	10.2				2.00 1.98	12.20	12.41	12.49	12.45	04,04	7		.	.
11	7	10.9				1.84	12.83	13.04	13.01	13.02	02,01				
12		10.9				1.84	12.83	13.04	13.16	13.10	06,06				
13		11.3				1.78	13.18	13.39	13.54	13.46	07,08				
14		11.7				1.77	13.54	13.75	13.75	13.75	00,00				
15		11.9				1.77	13.73	13.94	14.03	13.98	04,05				
16		12.2	12.3	12.25	01	1.79	14.04	14.25	14.37	14.31	06,06				
17		12.5	12.6	12.55	10	1.78	14.33	14.54	14.67	14.60	06,07				
18		12.7	12.8	12.75	10	1.77	14.52	14.73	14.85	14.79	06,06				
19		12.9	12.9	12.90	00	1.77	14.67	14.88	.	14.88	a.				
20		13.3	13.1	13.20	11	1.78	14.98	15.19	.	15.19	a.				
P.C.	1							8.25	8.46	8.88	Quiting 8.76	8.70	24,12,06		
	2							9.30	9.41	.	9.60	9.50	07 · 10		
	3							9.49	9.70	9.98	9.97	9.84	10 09		
	4							9.89	10.10	10.20	10.24	10.18	08,02,06		
	5							10.33	10.54	10.65	10.79	10.64	10,04,15		
	6							10.28	10.49	.	10.79	10.64	15. 15		
	7							10.66	10.87	.	.	10.87	a. .		
	8							11.53	11.74	.	.	11.74	a. .		
	9							11.53	11.74	.	.	11.74	a. .		

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Series 370

Scale R Int 65.03 R W Tauri Alt. +21 P.E.

	Sc.1	Sc.2	Curve. Magn	Sc.1	Sc.2	Curve. Magn
	14.			83.		
a	1.1			8.0	8.3	8.30 00 −1.41 6.89
	31.			7.		
c	2.8				9.2 9.4	9.30 1.1 −1.64 7.66
	47.			7.		
c'	3.9				10.1 10.2	10.15 1.0 −1.88 8.27
	43.					
Double-hr. meas. f	4.0			hr. meas.	9.7 9.7	9.70 00 −1.74 7.96
Double?	46.					
d	4.3				10.3 10.2	10.25 1.0 −1.90 8.35
	56.					
e	5.3		3.38 8.98		10.9	−2.09 8.81
	55.					
f	5.5		3.33 9.13		11.1	−2.14 8.96
	60.					
g	5.7		3.26 9.26		11.7	−2.29 9.41
	64.					
g'	6.1		3.14 9.54		11.6	−2.27 9.33
	74.					
k	7.1		2.82 10.22		12.4	−2.47 9.93
	72.					
l	6.9	B.	2.88 10.08		13.0	−2.54 10.46
	82.					
m	7.9	8.1	8.15 0.1 2.58 10.73		13.6	−2.52 11.08
	82.					
h	7.9	8.1	8.15 0.1 2.58 10.73		13.7	−2.51 11.19
	91.					
o	8.8	8.9	9.00 1.1 2.34 11.34		14.0	−2.47 11.53
	91.					
n	8.8	9.2	9.15 1.0 2.29 11.44		14.0	−2.47 11.53
	92.					
n'	8.9	9.3	9.25 0.1 2.27 11.52		13.9	−2.49 11.41
p	7.	10.1	2.03 12.13		7.	, ,
q	7.	10.7	1.94 12.64			
s		11.2	1.88 13.08			
r		11.1	1.90 13.00			
t		11.7	1.84 13.54			
u		12.2 12.2	12.20 00 1.79 13.99			
w		12.8 12.7	12.75 0.1 1.77 14.52			
x		13.0 13.0	13.00 00 1.77 14.77			
y		13.4 13.4	13.40 00 1.80 15.20			
z		13.8 13.9	13.85 0.1 1.93 15.78			
	77.					
Var.	7.4	B.	2.73 10.43		12.9	

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Friday, October 30, 1914

Ophiuchi.

Series 340

Scale R Inc 650 4 Centre H.0 +31.5 Alt. +22 P.e.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
	44.								195	
1	4.1					7.	10.4	10.3	10.35 0 1 -207	8.40
2	49 57.			3.49	8.69		10.8	10.9	10.85 0 1 -2.07	8.78
3	6.3 66.			3.08	9.68		11.9	11.8	11.85 1 0 -2.33	9.52
4	6.3 66.			3.08	9.68		11.9	12.0	11.95 1 0 -2.36	9.59
5	7.1 74.		B	2.82	10.22		12.2	12.4	12.30 1 1 -2.45	9.85
6	7.9 87.	8.0		8.10 1 1	2.60 10.70		13.3			-2.54 10.76
7	8.6 89.	8.8		8.85 1 0	2.41 11.26	Deptive?	13.8?			~~-2.50 11.30~~
8	7.	9.7			2.12 11.82		7.			
9		10.2			2.03 12.13					
10		10.3			1.99 12.29					
11		10.7			1.93 12.63					
12		10.9			1.92 12.82					
13		10.9			1.92 12.82					
14		11.2			1.89 13.09					
15		11.7			1.84 13.54					
16		12.2	12.1	12.15 0 1	1.80 13.95					
17		12.4	12.5	12.45 0 1	1.78 14.23					
18		12.8	12.8	12.80 0 0	1.77 14.57					
19		13.0	13.2	13.10 1 1	1.78 14.88					
20		13.5	13.6	13.55 1 0	1.82 15.37					

* Reject. Probably defective
H.S.L. Jan. 22, 1915

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1914phae.proj.1046M

Friday October 30, 1914

Series 340 : Copied

Scale R Ymc 6505 Qi Alt. + 14 P E

	Se.1		Se.2	Curve Magn		Se.1		Se.2	Curve Magn
		2.2.				9.0.			
1	1.9					8.7		8.9	8.95 01 -1.54 7.41
		3.2.				9.1			
2	2.9					8.8		9.1	9.10 00 -1.57 7.53
		3.3.				8.6.			
3	3.0					8.3		8.8	8.70 11 -1.48 7.22
3.4		3.7.				9.3			
3.4	3.4			3.70 00		9.0		9.3	9.30 00 -1.64 7.66
		3.5.							
4a	3.2					7.		9.9	9.80 11 -1.78 8.02
		4.4.						9.7	
4b	4.1							10.0	-1.83 8.17
		4.5.							
5	4.2							10.2	-1.88 8.32
4.8		5.1.							
4.8	4.8			5.10 00				10.7	-2.03 8.67
		4.6.							
7	4.3							10.7	-2.03 8.67
4.3		4.6.							
8	4.4			4.50 00 11				10.5	-1.98 8.52
		5.4.							
9	5.1			3.44 8.84				10.8	-2.06 8.74
		6.2.							
9a	5.9			3.20 9.40				11.2	-2.17 9.03
5.8		6.1.							
5.8	9b	5.6		6.00 11 3.26 9.26				11.4	-2.22 9.18
6.3		6.6.							
6.3	10	6.5		6.70 11 3.04 9.74				11.9	-2.34 9.56
6.3		6.6.							
6.3	11	6.3		6.60 00 3.08 9.68				11.9	-2.34 9.56
		7.0.							
12	6.7			2.94 9.94				12.2	-2.44 9.76
		7.0.							
13	6.7			2.94 9.94				12.2	-2.44 9.76
		7.8.							
14	7.5		B.	2.70 10.50				12.9	-2.53 10.37
		7.7.							
15	7.4		B.	2.74 10.44				13.1	-2.50 10.20
		8.3.							
16	8.0		8.3	8.30 00 2.54 10.84				13.4	-2.53 10.37
		9.1.							
17	8.8		8.9	8.8 8.93 20 1 2.38 11.31				13.7	-2.51 11.19
		9.0.							
18	8.7		8.9	8.95 01 2.35 11.30				13.7	-2.50 11.30
		9.1.							
19	8.8		8.9	9.00 11 2.33 11.33				13.9	-2.48 11.42
20	7.		9.7	2.12 11.82				14.	
21	7.		9.9	2.07 11.97				14.1	-2.46 11.64
22			10.6	10.4 10.50 11 1.97 10.47				14.	
23			10.9	1.92 12.72					

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1914phrae.proj.1040M

Friday, October 30, 1914

Series 340

Scale R mc 6500 R. (cont) Alt. +14 P.C.

	Sc.1	Sc.2		Curve	Magn.	Sc.1	Sc.2
24	11.2			1.89	13.09		
25	11.7			1.84	13.54		
26	11.9	11.9	11.90	00	1.83	13.73	
27a	12.6	12.7	12.65	01	1.78	14.48	
27b	12.3	12.3	12.30	00	1.79	14.09	
28	12.3	12.5	12.40	11	1.79	14.19	
29	13.1	13.0	13.05	10	1.77	14.82	
30	7	7			.	.	
31	13.4?	13.5?	13.45	01	1.81	15.26?	
e	11.1	11.1	11.11	00	1.90	13.01	

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1914phae.proj.1046M

Friday, October 30, 1914

Series 34.

Scale R Ymc 6506 Pole P.C.

	Sc.1	Sc.2		Sc.1	Sc.2	
5				7.9 87. 8.2 85.	B.	8.35 2 1
6				8.2 85.	8.7	8.60 1 1
8				7	10.1	10.2 10.05 1 0
9					10.8	10.9 10.85 0 1
10	5.5 58.			Wrong star.	11.2 11.0	11.10 1 1
11	6.0 63.				11.8	
12	6.8 71.	B.			12.2	
13	7.2 75.				12.9	
14	7.7 80.	B.			13.3	
15	8.1 84.	8.7	8.55 2 1		13.7	
16	8.6 90.	9.0	9.00 0 0		13.9	
17	7.	9.7			14.1	
18		10.0			7.	
19		10.6			7.	
20		10.8				
22		11.4				
25		12.1				
26		12.5	12.4 12.45 1 0			
27		12.9	12.9 12.90 0 0			
28 Wrong star meas.		13.3	13.7 13.30 0 0			
29		13.9	13.9 13.90 0 0			
30		14.0	14.0 14.00 0 0			
31		7.	7.			
82						

1.30

See p. 109

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1914phae.proj.1046M

Saturday, November 7, 1914

11.25 — HD Series 347

Scale R — HD 6579 — Pole

	Sc.1	Sc.2		Sc.1	Sc.2	
				P.C.		
5	6.4			7.	11.2	11.3
6	7.5	~~7.5~~ B.			11.9	12.0
8	7.	9.8			13.1	13.4
9	7.	10.5			13.8	13.7
10	7.	10.8			13.7	13.7
11		11.4			13.8	
12		11.7			4	
13		12.0			13.1	
14		12.5				
15		12.8	12.9			
16		12.9	13.0			
17		13.3	13.3			
18		13.9	13.9			
19		14.0	14.1?			
20		14.1?	14.0			
23		7.				
25						
26						
27						
28						
29						

Reject Variable for which this series was to be measured is too far from center of plate

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1914phae.proj.1046M

	Md 6521	R Camel	P.C.
	Sc.1 Sc.2	Sc.1 Sc.2	
α			
β			
γ			
a			
a'			
b			
c			
d			
e			
f			
f'			
g	13.6		
h			
h'			
k			
l			
m			
n			
o			
p			
q			
r			

Reject Variable too far from centre

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1914phae.proj.1046M

Monday, November 16, 1914

2120 MD Series 320

Scale R MD 6257 6584 Pole

	Sc.1	Sc.2		MD 6262	Diff	Sc.1	Sc.2	MD 6262	Diff
Does not compare well.	5.2			7.124	1.67				
5	4.9			4.5	4.85	Imp. poor.			
6	6.7 6.4	8		6.4	6.55	0.56	11.4	11.3 11.35 0.1	11.55 11.45 10 10 - 4.34
8	8.8 9.1	8.9	9.00 1.1	8.95	8.98	- 0.75	13.2	13.1 13.15 0.1	13.00 13.08 07 08 - 4.85
9	9.7	9.9		10.1	10.00	- 1.17	13.9	13.9 13.90 00	13.90 13.90 00 00 - 5.07
10		10.3		10.1	10.20	- 1.18	14.0	14.0 14.00 00	14.00 14.00 00 00 - 4.98
11		10.9		11.1	11.00	- 1.45			
12		11.3		11.8	11.55	- 1.69			
13		11.9		12.1	12.00	- 1.70			
14		12.2		12.3	12.25	- 1.60			
15		12.7	12.8 12.75 1.0	12.78	12.75	- 1.67			
16		13.4	13.3 13.35 0.1	13.10	13.22	- 1.82			
17		13.4	13.4 13.40 0.0	13.45	13.42	- 1.79			
18		13.8	13.7 13.75 0.1	14.00	13.88	- 1.82			
19		13.9	14.0 13.95 1.0	14.00	13.98	- 1.56			
20									
23									
25									
26									
27									

P. C.'s do not compare very well. Images sharper than

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Monday, November 16, 1914

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HD Series 320

Seraca R | HD 6258 | γ Cygni | Alt. +.21 | P. E.

		Sc.1	Sc.1	Sc.2	Cu	Magn	Sc.1	Sc.2			
a, b, d, e off plate		3.9					9.1		12		
	c	3.6			.		8.8	8.6	8.95	.	.
	f	3.2			.		9.1		10		
		2.9			.		8.8	9.2	9.15	.	.
Too far from centre	h	.			.		7.	9.6	11		
" " " "	g	.			.			9.7	9.8	9.70	. .
		4.3							11		
	l	4.0			.			9.7	9.9	9.80	. .
									01		
								10.6	10.5	1055	. .
		5.4									
	n	5.1			B.	1.26	6.66	10.8			. .
Too far from centre	m	.			B.	.	.	11.3		-4.31	6.99
		7.2									
	q	6.9			B.	0.20	7.40	11.9		-4.52	7.38
		7.6	7.8	8.03							
Near fainter star; difficult	K	7.3	7.5	7.83	8.1	-0.12	7.71	11.3	11.6	11.45 -4.36	7.09
		7.2	7.3			18				10	
	o	6.9	7.0	7.25 01	B.	0.200	7.45 3	11.7	11.8	11.75 -4.48	7.27
		8.5	8.4	8.33 12							
	r	8.2	8.1		8.1	-0.40	7.93	12.8		-4.77	8.03
		9.0		8.95 01		72					
	s	8.1			8.9	-0.69	8.26 3	12.8		-4.77	8.03
	t	7.			10.1	-1.21	8.89	13.9		-4.97	8.93
	p	7.			9.8	-1.10	8.70	13.3		-4.37	8.93
	w				10.4	-1.32	9.08	13.8		-4.96	8.84
	u				10.7	-1.44	9.36	7.		.	.
	z				10.9	-1.46	9.44	7.		.	.
	x				11.8	-1.68	10.12				
	y				11.9	-1.69	10.21				
	v				12.9	-1.76	11.14				
3m. sharp.	δ				13.0	-1.76	11.24				
					12.85 01						
	α				12.8	12.9 -1.76	11.09				
					13.10 11						
2m. very sharp.	β				13.2	13.0 -1.77	11.33				
					13.60 11						
	ε				13.7	13.5 -1.76	11.84				
					13.95 01						
	ζ				14.2	13.9 -1.72	12.23				
					14.00 00						
	θ				14.0	14.0 -1.71	12.29				
	η				7.	7.	.	.			
	i										
					11.3	-1.56	9.74				

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Monday November 16, 1914

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MP Series 320

Scale R MP 6260 Pl Alt. -.18 P. e.

	Sc.1		Sc.2	Cu.	Magn	Sc.1	Sc.2	Cu.	Magn
	8.0						11.80 0 0		
1	7.7		B.	- 0.24	7.76	7.	11.8 11.8	- 4.50	7.30
	8.4						12.70 1 1	73	7.97
2	8.1	8.35 0 1	8.3	- 0.44	7.91		12.6 12.8	- 4.45	8.25
	8.5						12.30 1 1	?63	.67
3	8.2	8.40 1 1	8.3	- 0.48	7.92		12.2 12.4	- 4.31	7.99
	8.5						12.65 0 1	1	7.9
4	8.2	8.35 1 2	8.2	- 0.47	7.91		12.6 12.7	- 4.42	8.23
	8.7						12.70 0 0	- 4.13	7.97
5	8.4	8.75 0 0	8.8	- 0.62	8.13		12.7 12.7	- 4.45	8.25
	9.0							77	
6	8.7	9.00 0 0	9.0	- 0.78	8.22		12.8	- 4.58	8.03
	9.1								
7	8.8	9.00 1 1	8.9	- 0.78	8.22		13.0	- 4.80	8.20
	9.0								
8	8.7	9.05 0 1	9.1	- 0.79	8.26		12.8	- 4.77	8.03
	9.3								
9	9.0	9.25 1 0	9.2	- 0.89	8.36		13.6	- 4.92	8.68
10	7.		9.9	- 1.14	8.76		13.8	- 4.96	8.84
11	7.		10.1	- 1.21	8.89		13.7	- 4.94	8.76
12			10.7	- 1.40	9.30		13.7	- 4.94	8.76
13			10.7	- 1.40	9.30		13.9	- 4.97	8.93
14			11.2	- 1.54	9.66		7.	.	.
15			11.7	- 1.66	10.04				
16			11.7	- 1.66	10.04				
17			11.7	- 1.66	10.04				
18			11.9	- 1.69	10.21				
19			12.1	- 1.71	10.39				
20			12.3	- 1.72	10.58				
21			12.4	- 1.73	10.67				
22			12.9	- 1.76	11.14				
23			12.8	- 1.76	11.04	Plan images Sc.1	Sc.2		
24			12.6	- 1.75	10.85 29		14.00 0 0		
25			13.4	- 1.77	11.63 30		14.0 14.0	- 1.71	12.29
26			13.70 0 0				14.00 0 0		
			13.7 13.7	- 1.75	11.95 31		14.0 14.0	- 1.71	12.29
27			13.50 0 0				7.	.	.
			13.5 13.5	- 1.76	11.74 32				
28			12.38 0 1						
			13.4 13.3	- 1.77	11.58				

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1914phae.proj.1046M

Monday November 16, 1914

Mt Series 320

Scale R	Mt 6262 Pole			Pe.		
	Sc.1	Sc.2		Sc.1	Sc.2	
5	4.5 4.2			3m. poor		
6	6.4 6.1	B.		7.	11.6 11.5	11.55 0 1
8	8.7 90.	8.9	8.95 0 1		12.9 13.1	13.00 1 1
9	7.	10.1			13.9 13.9	13.90 0 0
10		10.1			14.0 14.0	14.00 0 0
11		11.1			7.	,
12		11.8				
13		12.1				
14		12.3				
15		12.7 12.8	12.75 1 0			
16		13.1 13.1	13.10 0 0			
17		13.3 13.6	13.45 1 2			
18		14.0 14.0	14.00 0 0			
19		14.0 14.0	14.00 0 0			
20		7. 7.	,			
23						
25						
26						
27						

3.53

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1914phae.proj.1046M

Wednesday. November 18, 1914

11.50 HD Series 64

Scale V HD 3059 Pole

	Sc.B		Sc.C		HD 3064 λ127	Mean		Diff	Sc.D		HD 3064 λ127		Diff
	3.4												
5	3.3				3.5	3.45	0 1	3.04	7.7	7.7	7.70 00	7.65	7.68 02 03 -1.19
	4.7												
6	4.1		B.		4.15	4.18	02 03	2.93	8.1	8.2	8.15 10	8.20	8.18 03 02 -1.07
	6.1												
8	6.0		6.1	6.10 00	6.60	6.35	25 25	1.88	9.8	9.7	9.75 01	9.90	9.82 07 08 -1.59
	7.0												
9	6.9		6.8	6.90 11	7.4	7.15	25 25	1.68	7	7	.	.	.
10	7		7.2		7.7	7.45	2 3	1.57					
11			7.8		8.05	7.92	12 13	1.63					
13			8.3	8.25 10	8.65	8.45	20 20	1.41					
13			8.8	8.80 00	8.90	8.85	05 05	1.45					
14			9.2	9.10 11	9.35	9.22	12 13	1.43					
15			9.7	9.75 10	9.90	9.82	07 08	1.26					
16			9.9	9.85 10	10.05	9.95	10 10	1.45					
17			7	7	.	.							
18													
19													
20													
23													
25													

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1914phae.proj.1046M

Wednesday, November 18, 1914

HD Series 64

Scale V HD 30163 P Camelopardalis +.06

	Sc. B	Sc. B		Curve	Magn	Sc. B	Sc. C	Curve	Magn
α	5.1 (57)	5.1	5.15 01	2.37	7.52		8.9 9.1	9.00 ±1 - 1.38	7.62
β	3.3 (34)	B.		3.13	6.53	9.- 5m. poor.			
γ	5.4 (55)	5.7	5.60 ±1	2.18	7.78 :		9.1 9.2	9.15 ±0 - 1.42	7.73
a	5.5 (56)	5.7	5.65 01	2.17	7.82		9.7 9.8	9.75 ±0 - 1.57	8.18
a'	7.	7.6		1.57	9.17		7. 7.	. .	.
f		7.7		1.54	9.24		7.	. .	.
c		7.8 7.8	7.80 00	1.53	9.33				
d		8.7 8.8	8.75 ±0	1.43	10.18				
e		9.7 9.7	9.70 00	1.36	11.06				
f		9.5 9.8	9.65 ±2	1.36	11.01				
f'		10.0 10.0	10.00 00	1.34	11.34				
g		7. 7.	. .	.					
g2									
h'									
k									
l									
Var.		9.5 9.3					7.		

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1914phae.proj.1046M

Wednesday. November 18, 1914

MD Series 64

Scale V MD 3064 Pole

	Sc.B	Sc.C		Sc.B	Sc.C		
5	3.4 (3.5)	B		7.	7.7	7.6	7.65 10
6	4.1 (4.2)	4.1	4.15 01		8.1	8.3	6.20 11
8	6.6 (6.7)	6.5	6.60 11		9.9	9.9	9.90 00
9	7.	7.4			7.	7.	,
10		7.7					
11		8.1	8.0 8.05 10				
12		8.6	8.7 8.65 01				
13		8.9	8.9 8.90 00				
14		9.3	9.4 9.35 10				
15		9.9	9.9 9.90 00				
16		10.1?	10.0 10.05 10				
17		7	,				
18							
19							

12.45

See p 125

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Monday, November 23, 1914

9.48

Mt Series 310

Scale V

7h 9 6153 Pole

	Sc. B	Sc. C		MD 6158	MD 6164	Mean	Diff.	Sc. B	Sc. C		MD 6158	MD 6164	Mean	
5	2.9 30.			3.3	3.3	3.30	2 11	3.29	6.7 68.					
6	4.1 47.	B.		4.2	4.2	4.20	0 00	2.91	7.7	7.8	7.75	1.0	7.75	7.80	7.77	02 02
8	5.5 56.	5.7	5.65	0.1	5.85	5.80	5.77	12 08	03 2.46	8.9	8.9	8.90	0.0	8.90	8.95	8.92	02 02
9	6.6 67.	6.4	6.55	1.2	6.55	6.60	6.57	02 02	03 2.26	9.4	9.5	9.45	0.1	9.80	9.75	9.67	22 13
10	6.7 68.	6.8	6.80	0.0	6.80	6.75	6.78	02 02	03 2.24	9.8	9.8	9.80	0.0	9.85	9.70	9.78	02 07
11	7	7.2			7.2	7.10	7.20	10 00	10 2.35	10.0		10.1		10.1	10.0	10.07	07 03
12		7.7			7.6	7.7	7.67	0 1	0 2.19	10.0		.			10.00		2.
13		7.9			7.9	7.9	7.90	0 00	2.40								
14		8.4	8.2	8.30	1.1	8.4	8.3	8.33	03 07	02 2.32							
15		8.9	8.9	8.90	0.0	8.85	8.8	8.85	05 10	05 2.23							
16		8.9	8.9	8.90	0.0	8.90	8.90	8.90	00 00	00 2.50							
17		8.9	9.0	8.95	1.0	9.10	9.45	9.17	22 07	28 2.46							
18		9.8	9.9	9.85	0.1	9.75	9.60	9.73	12 02	13 2.33							
19		9.7	9.8	9.75	1.0	9.85	9.90	9.83	08 02	07 2.59							
20		?		.		10.1	10.20	10.15	.05	05 2.58							
23																	
25																	

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In D Series 310

Scale V | In D 6154 | D12 | alt. -.18 | PC.

Diff.	Sc. G.	Sc. C		Curve	Magn	Sc. B	Sc. C			Curve	Magn
1.2 0.2 1.3 -0.48	1 5.4 (6.5)	5.8	5.65 1.2	2.48	8.13	7.	8.8	8.9	8.85 0.1 -0.76		8.89 9.61
0.2 0.2 0.3 -0.66	2 4.9 (5.0)	4.9	4.95 0.1	2.56	7.51		8.1	8.2	8.15 1.0 -0.70		7.45 8.85
0.2 0.2 0.3 -0.69	3 5.8 (5.9)	5.9	5.90 0.0	2.45	8.35		9.0	8.9	8.95 0.1 -0.76		8 9.19
2.2 1.3 0.8 -0.84	4 6.1 (6.2)	6.3	6.25 0.1	2.38	8.63		9.3	9.2	9.25 1.0 -0.77		8.48
0.2 0.7 0.8 -0.76	5 5.6 (5.7)	5.7	5.70 0.0	2.38	8.20		8.9	8.9	8.90 0.0 -0.76		8.14
4.7 0.8 0.8 -0.52	6 6.3 (6.4)	6.3	6.35 0.1	2.37	8.72		9.2		-0.77		8.43
2 . . -0.14	7 6.7 (6.8)	6.8	6.80 0.0	2.32	9.12		9.6		-0.73		8.87
	8 6.8 (6.9)	6.8	6.85 1.0	2.31	9.16		9.9		-0.62		9.28
	9 7.0 (7.1)	7.2	7.15 1.0	2.30	9.45		9.8		-0.65		9.25
	10 6.9 (7.0)	7.1	7.05 0.1	2.31	9.36		10.1? 9		-0.52		9.58?
	11 7.	7.0		2.30	9.30		10.1? 9.2		-0.52		9.58?
	12	7.3		2.30	9.60		10.1?		-0.52		9.58?
	13	7.3		2.30	9.60		7.				
	14	7.1		2.31	10.11						
	15	7.9		2.32	10.22						
	16	7.9		2.32	10.22						
	16a	8.4		2.36	10.76						
	17	9.0	8.9 8.95 0.1	2.40	11.35						
	18	8.8	8.9 8.85 0.1	2.39	11.24						
	19	8.9		2.39	11.29						
	20	9.2		2.43	11.62						
	21	9.2	9.1 9.6 9.30 1.2.3	2.44	11.74						
	22	9.7	9.8 9.75 1.0	2.49	12.24						
	23	9.8	9.8 9.80 0.0	2.50	12.30						
	24	9.9	9.9 9.90 0.0	2.52	12.42						
	25.	9.8	9.9 9.85 0.1	2.50	12.35						
	26	9.9	9.9 9.90 0.0	2.52	12.42						
	27	10.1?	10.2? 10.15 1.0	2.57	12.72						

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MD Series 310

Scale V MD 6158 Pole

	Sc. B	Sc. C	Sc. B	Sc. C	
5	3.2 (3.3)		6.8 (6.9)	7.0	695 ± 10
6	4.1 (4.2)	B.	7	7.7 7.8	775 ± 10
8	5.8 (5.9)	5.8 585 10		8.9 8.9	890 00
9	6.4 (6.5)	6.6 655 10		9.8 9.8	980 00
10	6.7 (6.8)	6.8 680 00		9.8 9.9	985 01
11	7	7.2		10.1?	
12		7.6		7	
13		7.9			
14		8.4			
15		8.8 8.9 885 01			
16		8.9 8.9 890 00			
17		9.0 9.2 910 11			
18		9.8 9.7 975 01			
19		9.9 9.8 985 10			
20		7 10.1?			
23					
25					
26					

P. E.

S.

Data comp

See [illegible]

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Dr Series 310.

Scale V Dr 6159 D1 Alt. 19 P.C.

Sc.B	Sc.B	Sc.C	Sc.C		Curve	Magn	Sc.B	Sc.C		Curve	Magn
5.3	1 5.8		5.2	5.50 1.43	2.53	8.03	7	8.7	8.8 8.75 1.0	-0.76	7.99
Does not compare well.	2 5.7		5.7	5.75 0.1	2.48	8.23		8.8	8.8 8.80 0.0	-0.76	8.04
	3 5.8		5.8	5.85 1.0	2.46	8.31		8.9	8.9 8.90 0.0	-0.76	8.14
	4 6.2		6.2	6.25 1.0	2.38	8.63		8.8	8.8 8.80 0.0	-0.76	8.04
5.9	5 6.1		5.8	6.00 0.22	2.43	8.43		9.0	8.9 8.95 0.1	-0.76	8.19
	6 6.3		6.3	6.45 2.1	2.36	8.81		9.4		0.77	8.63
	7 6.3		6.3	6.45 2.1	2.36	8.81		9.2		0.78	8.42
	8 6.7		6.7	6.75 0.1	2.32	9.07		9.7		0.71	8.99
	9 6.9		6.9	6.95 0.1	2.30	9.25		9.9		0.62	9.28
	10 6.8		6.9	6.90 0.0	2.31	9.21		9.8		0.65	9.15
	11 7.		7.6		2.30	9.90		10.0		0.54	9.46
	12		7.7		2.31	10.01		7.		,	,
	13		7.8		2.31	10.11					
	14		7.8		2.31	10.11					
	15		7.9		2.32	10.22					
	16		8.3		2.34	10.64					
	16a		8.3		2.34	10.64					
	17		8.8		2.38	11.18					
	18		8.8		2.38	11.18					
	19		8.9		2.39	11.29					
	20		9.1	9.3 9.20 1.1	2.42	11.62					
	21		9.2	9.4 9.30 1.1	2.43	11.73					
	22	9.5	9.4	9.8 9.57 1.22	2.46	12.03					
	23		9.7	9.8 9.75 1.0	2.50	12.24					
	24		9.8	9.8 9.80 0.0	2.50	12.30					
	25		9.9	9.9 9.90 0.0	2.52	12.42					
	26.		7.	7.							
	27		10.27		2.59	12.79					
	28										

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Monday November 23, 1914 on sheets

MD Series 310

Scale V MD 6160 S Cassiop alt. +16 P.C.

		Sc.B	Sc.C		Curve.	Magn.	Sc.B	Sc.C		Curve.	Magn.
Too far from centre	a	.	.				7.	7.6	7.6	7.60 00 −0.62	6.98
	b	5.3 (5.4)	5.3		5.35 01	2.59	7.94	8.7	8.6	8.65 10 −0.75	7.90
	c	5.3 (5.4)	5.3		5.35 01	2.59	7.94	8.8	8.7	8.75 01 −0.76	7.99
" " " "	d	.	.		.	.		9.8	9.9	9.85 01 −0.63	9.22
	e	6.3 (6.4)	6.7		6.55 2	2.34	8.89	9.7	9.8	9.75 10 −0.68	9.07
	f	6.0 (6.1)	6.0		6.05 10	2.42	8.47	9.4	9.4	9.40 00 −0.76	8.64
	g	6.3 (6.4)	6.3		6.35 01	2.37	8.72	9.0		−0.76	8.24
" " " "	h	.	.		.	.		7.		.	.
	h'	7.	7.3			2.29	9.59	7.		.	.
	k		8.1			2.33	10.43				
	l		8.0	8.1	8.05 01	2.32	10.37				
	m		7.9	7.9	7.90 00	2.31	10.21				
	n		9.5	9.4	9.45 10	2.45	11.90				
	o		8.9	8.9	8.90 00	2.39	11.29				
	o'		8.7	8.8	8.75 10	2.36	11.13				
	p		9.7	9.8	9.75 10	2.49	12.24				
	q		10.0	9.9	9.95 01	2.53	12.48				
	r		10.0	10.0	10.00 00	2.54	12.54				
Def. meas. first	s		~~10.0~~ 7.			.	.				
	s'		7.			.	.				
	t										

Var. 7.

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Monday November 23, 1914

MD Series 310

Scale V M 6162 Cluster Perseus Alt. +21 P.C.

	Sc. B	Sc. C		Curve	Magn	Sc. B	Sc. C		Curve	Magn
1	3.5 30	13.		3.13	6.73	7.	7.3 7.4	7.35 1 0	-0.56	6.77
2	4.4 45	4.2?	4.35 1 2	2.87	7.22		7.8 7.9	7.85 0 1	-0.66	7.19
3	5.3 54	5.4?	5.40 0 0	2.58	7.96		8.3 8.3	8.40 1 1	-0.73	7.67
4	5.8 59	5.7	5.80 1 1	2.46	8.26		9.0 8.9	8.95 0 1	-0.76	8.19
5	6.7 68	6.7	6.75 0 1	2.32	9.07		10.0 9.7	9.85 2 1	-0.68	9.22
6	~~6.7~~ 7.	7.4 7.3	7.35 0 1	2.29	9.64		10.0		-0.54	9.46
7	7.	7.8		2.31	10.11		7.			
8		8.0		2.32	10.32					
9		8.4 8.4	8.40 0 0	2.35	10.75					
10		8.9 8.9	8.90 0 0	2.39	11.29					
11		9.0 8.9	8.95 0 1	2.40	11.35					
12		9.3 9.1	9.20 1 1	2.42	11.62					
13		9.7 9.8	9.75 1 0	2.49	12.24					
14		9.9 10.1?	10.00 1 1	2.55	12.55					
15		7.								
16										
17										
18										
19										

(See p. 103.)

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MP Series 310

Scale V MP 6163 D 2 Alt -.19 P. C.

	Sc. B	Sc. C		Curve	Magn	Sc. B	Sc. C		Curve	Magn
				58	83					
1	5.3	5.2	5.25 10	2.67	7.92	7.	8.3	8.30 00	-0.73	7.57
2	5.7	5.9	5.85 01	2.46	8.31	7.	8.7	8.55 12	-0.74	7.81
3	5.1	5.1	5.15 01	2.67 2)	7.79 1)		8.1	8.00 11	-0.69	7.31
4	6.1	6.1	6.15 01	2.39	8.54		8.9	8.90 00	-0.76	8.14
5	6.0	5.9	6.00 11	2.43	8.43		8.9	8.85 10	-0.75	8.10
6	6.3	6.3	6.35 01	2.37	8.72		9.3		-0.71	8.53
7	6.7	6.7	6.75 01	2.32	9.07		9.3		-0.71	8.53
8	6.3	6.4	6.40 00	2.36	8.76		9.4		-0.76	8.64
9	7.0	7.1	7.10 00	2.30	9.40		9.9		-0.62	9.28
10	7.	7.3		2.29	9.59		9.9		-0.62	9.28
11	7.	7.6		2.30	9.90		10.1?		-0.50	9.60 2)
12		7.7		2.31	10.01		7.			
13		7.8		2.31	10.11					
14		8.2		2.33	10.53					
15		8.4		2.36	10.76					
16		8.6		2.37	10.97					
17		8.8		2.39	11.19					
17a		9.2	9.10 11	2.41	11.51					
18		9.5	9.45 10	2.45	11.90					
19		9.3	9.30 00	2.43	11.73					
20	Elong.	9.5	9.40 11	2.44	11.84 9)					
21		10.2	10.05 21	2.55	1260?					
22		9.9	9.95 10	2.53	1248					
23	Indist. uncertain	10.1?	10.05? 10	2.55	1260? R					
24		7.								
25										
26										
27										
28										

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Mt Series 310.

Scale V Mt Θ 6164 Pole Pc.

	Sc. B	Sc. C		Sc. B	Sc C		
5	3.2 33	B		7.1	7.1		7.10 00
6	4.1 47	B		7	7.8	7.8	780 00
8	5.8 59	5.7	580 11		8.9	9.0	895 10
9	6.5 66	6.6	6.60 00		9.8	9.7	975 01
10	6.7 68	6.7	675 01		9.7	9.8	970 00
11	7.0 71	7.1	7.10 00		10.1?		
12	7.	7.7			7.		
13		7.9					
14		8.3					
15		8.8					
16		8.9	8.9	8.90 00			
17		9.5	9.4	945 10			
18		9.5	9.7	960 11			
19		9.9	9.9	990 00			
20		10.1?	10.3?	1020 11			
23		7.	7.				
25							

12.52

See p. 128

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Tuesday, December 1, 1914

10.05

Series 357

Scale R mc 6700 Pole

Sc.1	Sc.1	Sc.2	mc 6705 μ142	mc 6711 μ148	Mean	Sc.1	Sc.2	mc 6705 μ142	mc 6711 μ148
						7.3	B.	8.40	
						8.2	8.2	8.35 12 840	10.15
						7	10.2	10.20 00 915	11.70
							10.7	10.70 00 1125	12.20
	5.2		6.2	7.1	6.27	8 1 8	10.9	10.90 00 1155	12.65
	6.0		7.1	8.1	7.17	9 1 9	11.8	1195	13.25
	6.3		7.5	8.40	7.50	90 00 90	12.2	127	13.9
	7.0		8.10	9.15	8.18	88 08 97	12.8	131	13.9
	7.6	B.	8.60	9.9	8.80	90 20 110	13.1	136	140
7.9	8.2	8.1	8.38 12 2	9.15	10.2 9.21	94 06 99	13.4	139	
	8.7	8.7	8.85 21	9.7	10.5 9.68	83 02 82	13.7	139	
Wrong star first	8.9	9.8	9.25 01	9.9	10.9 10.02	77 12 88	14	140	
	7	9.5		10.4	11.3 10.40	9 0 9			
		10.3		10.9	11.7 10.97	7 1 7			
		10.8		11.0	11.9 11.23	4 2 7			
		11.6		11.6	12.75 11.98	38 38 77			
		12.0	12.0	12.00 00	12.05 13.20 12.42	42 37 78			
		12.7	12.8	12.75 10	12.80 13.55 13.03	28 23 52			
		12.9	13.0	12.95 10	12.95 13.80 13.23	28 28 57			
		13.7	13.7	13.70 00	13.57 13.90 13.72	02 15 18			
		14.0	14.0	14.00 00	14.00 . 14.00	00 00 .			
		7.7			14.05 . 14.05	. 2 2			

Mean

5	8.00	40	40
6	9.22	87	07 98
8	10.95	75	75
9	11.38	68	13 82
10	11.70	80	15 95
11	12.33	53	38 92
12	12.93	7	2 10
13	13.27	5	2 6
14	13.57	5	0 4
15	13.65	2	3
16	13.80	1	1
17	14.00	.	2

Mean discordants not plotted.

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Tuesday, December 1, 1914

Series 357

Scale R mc 6701 D. P E.

	Sc.1	Sc.1	Sc.2		Sc.1	Sc.2		
Too far.	1				7.	9.7	9.7	9.70 00
	2	4.2 3.9				9.8	9.7	9.75 01
	3	4.4 4.1				9.8	10.0	9.90 11
	4	4.7				10.3	10.3	10.30 00
4.9	5	4.9 4.6	4.95 01			10.3	10.1	10.20 11
	6	5.7 5.4				10.6		
4.9	7	5.0 4.7	5.00 00			10.6		
	8	5.7 5.4				10.9		
Scratched	9	5.6 5.3				10.9		
	10	5.9 5.6				11.2		
	11	6.6 6.3				11.9		
6.2	12	6.4 6.1	6.45 10			11.9		
	13	6.6 6.3				12.3		
	14	6.9 6.7				12.8		
	15	6.9				12.8		
	16	7.6 7.3				12.8		
	16a	7.8 7.5	B.			13.3		
	17	8.1 7.8	8.1	8.10 00		13.6		
	18	8.9 8.6	8.7	8.80 11	Sm. faint; Foggy			
	19	9.0 8.7	8.7	8.85 21		13.9		
9.0 8.7	20	8.8 8.5	8.8	8.87 111		13.9		
	21	9.1 8.8	9.2	9.15 10		13.9		
	22	9.7	9.7			14.0		
	23		9.9			14.0		
	24		10.0			14.		
	25		10.4					
	26		10.7					

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Tuesday December 1, 1914

Series 357

Scan R.	Me 670 1		Bl (cont		PC.		S
	Sc.1	Sc.2			Sc.1	Sc.2	
27		10.7					
28		11.3					
29		11.4					
30		11.7					
31		11.8					
32		11.9					
33		12.3					
34		12.3	12.3	12.30 0 0			
35		12.8	12.8	12.80 0 0			
36		13.0	12.9	12.95 0 1			
Im Leggy. 37		13.6	13.4	13.50 1 1			
38		13.9	14.0	13.95 1 0			
39		↑	14.0?				

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1914phae.proj.1046M

Tuesday. December 1, 1914

Series 357

Scan R m c 6702 ~~Cont.~~ DM 1.0 +25 P. e.

	Sc.1	Sc.2			Sc.1	Sc.2		
					7	10.0	10.0	10.00 00
01	3.9							
02	5.7					11.1	11.1	11.10 00
03	6.7	B.				12.2	11.9	12.05 21
04	7.8	B				13.1	13.1	13.10 00
05	8.3	8.8		8.70 11		14.0	13.8	13.90 11
06	8.9	8.9		9.05 21	Sm. Nagg.	13.9	13.9	13.90 00
07	7	9.4				7.		
08		10.2						
09		10.7						
010		10.2						
011		10.7						
012		10.9						
013		11.3						
014		11.9	11.7	11.80 11				
015		12.3	12.2	12.25 10				
016		12.5	12.4	12.45 10				
017		12.9	12.8	12.85 10				
018		12.9	12.9	12.90 00				
019		13.1	13.1	13.10 00				
020		13.9	13.9	13.90 00				

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1914phae.proj.1046M

Tuesday, December 1, 1914

Series 357

Scan R Fn E 6704 S Cassiop Ref. Seq. P.C.

	Sc.1	Sc.2		Sc.1	Sc.2		
	3.4			9.2			
1	3.1			8.9	9.1	9.15 01	
	5.2						
2	4.9			7	10.9	10.9 10.90 00	
	6.1						
3	6.4				11.9	11.9 11.90 00	
	7.2						
4	6.9				12.1	12.2 12.15 10	
	7.1						
5	6.8	B.			12.2	12.2 12.20 00	
	7.8						
6	7.5	B.			12.7		
	8.1						
7	8.4	8.8	8.75 10		13.6		
	9.0						
8	8.9	8.8	8.90 11		13.9		
9	7	9.9			14.0		
10		10.7			7		
11		10.8			7		
12		10.9					
13		11.4					
14		11.7					
15		11.9					
16		12.2	12.1 12.15 01				
17		12.9	12.7 12.80 11				
18		12.8	12.9 12.85 01				
19		13.1	12.9 13.00 11				
20		13.4	13.3 13.35 01				

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1914phae.proj.1046M

Tuesday, December 1, 1914

Series 357

Scale R Mc 6704 S Cassiop Var. Seq. P.E.

	Sc.1	Sc.1	Sc.2	Sc.1	Sc.2		
Off plate	a	.	.				
	f	4.3 4.6		Difficult: stars too close			
	c	4.3 4.6			7.	9.9	10.2	10.05 1.2
Too far.	d	.	.	near edge of plate		12.8?	11.8?	11.80 00
	e	5.9 6.2				11.3	11.3	11.30 00
5.2 5.5	f	5.3 5.6				10.7	10.8	10.75 1.0
4.3 4.6	g	4.3 4.6				10.6	10.7	10.65 01
	h	7.2 4.5				12.9	12.9	12.90 00
6.6 6.9	h'	6.7 7.0				11.9		
	k	7.0 4.8	B. 12.9			12.4		
	l	7.8 8.1	B.			12.9		
7.2 4.5	m	7.3 4.6	B.			12.4		
	n	7	9.9			14.0		
	o	8.1 9.0	8.9	8.95 01		13.6		
	o'	8.8 9.1	9.1	9.10 00		13.7		
	p	7	10.2					
	q	7.	10.2					
	r		10.4					
	s		10.8					
	s'		11.1					
	t		12.5					
	u		12.1					
	w		12.7					
	x		12.7	12.6	12.65 10			
	y		13.0	12.9	12.95 01			
	z		13.3	13.3	13.30 00			
	&.		13.6	13.7	13.65 01			
	Y		14.0	14.0	14.00 00			
	Var		12.4	12.6	12.50 11			

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1914phae.proj.1046M

Tuesday December 1, 1914

Series 357

Scale R Tne 6705 Pole P.E.

	Sc.1	Sc.2		Sc.1	Sc.2	
5				8.2 (8.6)	8.3	8.40 1
6				8.7 (9.2)	9.1	9.15 01
8				another star almost surf.		
9					11.2	11.3 11.25 01
10	5.9 (6.2)				11.7	11.4 11.55 1
11	6.8 (7.1)				11.9	12.0 11.95 1 0
12	7.2 (7.5)	B.			12.7	
13	7.8 (8.1)	8.1	8.10 00		13.1	
14	8.2 (8.5)	8.7	8.60 1 1		13.6	
15	8.8 (9.1)	9.2	9.15 1 0		13.9	
16	7.	9.7		Hazy	13.9	
17		9.9			14.0	
18		10.4				
19		10.9				
20		11.0				
23		11.6				
25		12.0	12.1	12.05 01		
26		12.8	12.8	12.80 00		
27		13.0	12.9	12.95 01		
28	13.5	13.8	13.4	13.57 1 2		
29		14.0	14.0	14.00 00		
30		14.1?	14.0 ?	14.05 1 0		
31						

Seq. 1360

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1914phae.proj.1046M

Tuesday December 1, 1914

Series 357

Scale P mc 6708 C2 P C1

	Sc.1	Sc.1	Sc.2		Sc.1	Sc.2		
Too f	1				8.6 (8.9)	8.7	8.4	8.80 11
	2				8.9 (9.2)	9.2		9.20 00
	3	3.9 (4.2)				9.7	9.6	9.65 10
(4.5) 4.2	4	4.3 (4.6)	4.55 10			10.5	(10.6) 10.5	10.55 10
(4.6) 4.3	5	4.1 (4.4)	4.50 11			10.3	10.2	10.25 10
	6	5.3 (5.6)				10.9		
(5.6) 5.3	7	5.1 (5.4)	5.50 11			11.2		
	8	5.4 (5.7)				11.4		
	9	5.9 (6.2)				11.6		
	10	6.1 (6.4)				11.7		
	11	6.6 (6.9)				12.2		
	12	6.9 (7.2)				12.9		
	12a	7.7 (8.0)				12.9		
	13	7.6 (7.9)	B.			12.8		
	14	8.1 (8.4)	8.1	8.25 21		13.7		
	15	8.4 (8.7)	8.6	8.65 10		13.7		
	16	8.7 (9.0)	8.8	8.90 11		13.7		
	17	8.8 (9.1)	9.4	9.25 12	Hazy.	13.8		
	18	7	9.5			7		
	19	7	9.6		Too poor Hazy.			
	20		10.3			7		
	21		10.5					
	22		10.7					
	23		11.0					
7 star close.	24		11.1					
	25		11.3					
	26		12.1					
	27		12.3					

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1914phae.proj.1046M

Tuesday December 1, 1914

Series 354

Scale R — Tme 6708 C2 (cont.)

	Sc.1	Sc.2	Sc.2	Sc.2		
28			12.7			
29			12.9	12.8	12.85	10
30		13.1	13.3	12.9	13.10	02
31			13.8	13.7	13.75	01
32			13.9	13.9	13.90	00
33			13.9	13.9	13.90	00
34			14.1	14.1?	14.10	00
35						
36						
37						
38						
39						
40						

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1914phae.proj..1046M

Tuesday December 1, 1914

Series 35-7

Scale R	7m c 67.0 9		Color Index		P. C.		
	Sc.1	Sc.2			Sc.1	Sc.2	
1	5.3 5.6				7.	11.1 11.2	11.15 1 0
2	5.8 6.1					11.3 11.3	11.30 0 0
3	6.1 6.4					11.8 11.9	11.85 0 1
4	7.3 7.6	B				12.8 12.9	12.85 0 1
5	7.2 7.5	B.				12.7 12.8	12.75 1 0
6	8.2 8.5	8.7	8.60 1 1			13.8 13.7	13.75 0 1
7	8.8 9.1	8.9	9.00 1 1			13.8	
8	7.	9.8				14.0	
9		10.9				7	
10		11.6					
11		11.8	11.7	11.75 0 1			
12		12.2	12.2	12.20 0 0			
13	12.3	12.8	12.3	12.47 2 3 2			
14		12.9	13.2	13.05 1 2			
15		13.3	13.3	13.30 0 0			
16							
17							
18							
19							
20							

Image sharp.

Faint images very sharp.

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1914phae.proj.1046M

Tuesday, December 1, 1914

Series 357

Scaer P | Mt 6/10 | R W Mauri Ref. Seq. | P. C.

	Sc.1	Sc.2		mar Ref p. 113 Diff.	Curr Magn	Sc.1	Sc.2	Diff
1	5.2	5.5	5.5	3.20	3.76	4.	10.6 10.25 9.9	-1.55
2	6.5	6.8	6.8	2.72			12.3 12.20 12.1	-3.68
3	6.9	~~6.7~~	7.0	2.85			12.6 12.55 12.5	-2.70
4	7.4	13.	7.7	2.46			12.8 12.75 12.7	-2.59
5	7.9	8.1	8.2	2.44			13.3 13.30 13.3	-2.74
6	7.7	13.	8.2	2.47			13.3	-2.73
7	8.1	8.4	8.8	8.73	2.12		13.9	-2.98
8	7.	9.3	9.3	2.04		4.		
9		10.2		1.82				
10		10.7		1.75				
11		11.2		1.82				
12		11.4		1.70				
13		11.9		1.56				
14		12.2		1.55				
15		12.3		1.68				
16		12.6 12.65 12.7		1.66				
17		12.8 12.85 12.9		1.75				
18		13.0 13.05 13.1		1.74				
19		13.1 13.20 13.3		1.68				
20		13.4 13.35 13.3		1.94				

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Tuesday, December 1, 1914

Relative Magnitudes; plate 248

No correction for altitude required.

Series 357

Scale R me 6.7/10 RW Tauri Var. Seq. P.E.

	Sc.1	Sc.2	Mean 6503 9318 BKG: 49 Diff	Cum	Magn.	Sc.1	Sc.2		Diff	Cum	Magn.
Too t	a					8.9 9.2	9.1	9.15	-1.85	-1.77	7.38
	c					10.2	9.9	10.05	-1.99	-2.05	8.00
	c' 4.3 4.6		4.6	3.92	3.88	8.48	10.8	10.8	10.80	-2.28	-2.26	8.54
	b		~~5.5~~								
Double?	d 5.2 5.6		~~5.5~~ 6.4	3.26	3.27	8.77	11.2	11.2	11.20	-2.44	-2.37	8.83
	e 6.1 6.4		6.4	2.76	2.87	9.27	11.6	11.5	11.55	-2.43	-2.46	9.09
	f 6.2 6.5		6.5	2.84	2.83	9.33	11.8			-2.46	-2.50	9.30
	g 6.3 6.6		6.6	2.93	2.80	9.40	11.9			-2.37	-2.53	9.37
	d' 6.9 7.2		7.2	2.44	2.61	9.81	12.2			-2.56	-2.58	9.62
	k 7.9 8.2	B.	8.2	2.14	2.31	10.51	12.9			-2.56	-2.68	10.21
	l 7.8 8.1	B.	8.1	2.28	2.33	10.43	13.1			-2.72	-2.71	10.39
	m 8.8 9.1		8.9	9.00	2.04	2.04	11.04	13.9			-2.86	-2.83	11.07
	h 8.7 9.0		8.9	8.95	2.11	2.07	11.02	13.8			-2.74	-2.81	10.99
	o 7		9.6		2.06	1.93	11.53						
	n 7		9.4		2.35	1.97	11.37						
	n' 7		10.1		1.76	1.83	11.93						
	p		10.6		1.70	1.73	12.33						
	q		10.9		1.95	1.68	12.58						
	s		11.4		1.81	1.62	13.02						
	r		11.7		1.51	1.60	13.32						
Wrong star measd first.	t		12.1 ~~12.4~~		1.65	1.59	13.69						
	u		12.5 12.3	12.40	1.81	1.60	14.00						
	w		12.9 13.2	13.05	1.87	1.77	14.82						
	x		13.2 13.2	13.20	1.78	1.82	15.02						
	y	13.5	13.3 13.8	13.53	1.88	1.94	15.47						
	z		13.9 13.8	13.85	~~2.06~~	2.06 e	15.91 e						

Var 6.7 B. 7. 12.2

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1914phae.proj.1046M

Tuesday, December 1, 1914

Series 357

Scale R 7m & 6/11 Pole Pc.

	Sc.1	Sc.2		Sc.1	Sc.2	
5			Too near a star image			
6					10.2	10.1 10.15 01
8					11.7	11.7 11.70 00
9					12.2	12.2 12.20 00
10	6.8 (7.1)				12.6	12.7 12.65 01
11	7.8 (8.1)	B.			13.3	13.2 13.25 10
12	8.2 (8.5)	8.3	8.40 11		13.9	
13	8.9 (9.2)	9.1	9.15 01	Im. hazy.	13.9	
14	7.	9.9			14.0	
15		10.2				
16		10.5				
17		10.9				
18		11.3				
19		11.7				
20		11.9				
23		12.7	12.8 12.75 10			
25		13.1	13.3 13.20 11			
26		13.7	13.4 13.58 12			
27		13.8	13.8 13.80 00			
28		13.9	13.9 13.90 00			
29		7.	7.			
31						
(15 m out) 8.20						
31						

See p 136

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1914phae.proj.1046M

Monday December 7, 1914

P Lyncis.

12.00 Estimates of Brightness of faint Comparison Stars

	mc 2827	mc 2975	mc 3076	mc 3108	mc 3143		Mean	Sum
$o' - o^2$	6	9	6	8	6	7	o' 70	00
$o^2 - o^3$	9	6	7	3	6	6	o^2 60	70
$o^3 - o^4$	8	8	1	4	6	4	o^3 52	130
$o^4 - p$	2	2	6	9	8	7	o^4 57	182
$p - p'$	4	6	-2	-4		1	p 05	239
								240 *
$p' - q$	3	5	-1	4	4	4	p' 32	242
$q - q'$	9	8	8	8	8	9	q 83	272, 274
								335 337
$o^4 - p'$	6	5	4	6	8	8	q' 62	182
							o^4	
							p'	244
$w - w$	n.s	n.s	4	5	5	6	w 50	00
$w - x'$	n.s	n.s	3 4	4	8	4	w 50	50
$x' - y$	n.s	n.s	3	6	n.s	n.s	x' 45	100
							y	145

ch. l.

* Adopt sum from right hand column, where they exist.

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Tuesday, December 8, 1914

	mc 827	mc 2972	mc 4442	mc 5072	mc 5108	mc 5143		Mean		Sum	Sum,
$q - q'$	5	6	8	8	7	8	q	70	$= \perp 1101$	90	274
$q' - r'$	7	6	3	1	3	7	q'	45	$3 2 \perp 3 \perp 3$	70*	350
$r' - r^2$	8	4	5	7	10	9	r'	72	$1 3 2 0 3 2$	115	395
$r^2 - s$	4	$\pm$ n.c.	5	5	4	7	r^2	50	$\perp \cdot 0 0 \perp 2$	187	467
							s			237	517

*The mean of the reading on this and the preceding page for $q - q'$ was added for this sum

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1914phae.proj.1046M

Monday, December 14, 1914

10.25

Mc Series 222

Scale R.	Mc 5104 Sc.1	Mc 5104 Sc.2	Saturn	Ref. Sag. Sc.1	P.C. Sc.2	
1	6.7 (7.0)			7. (wrong star)	12.3	12.2 1225 10
2	6.7 (7.0)				12.3 12.4	12.5 1240 11
3	6.7 (7.0)				12.1	12.2 1215 10
4	7.1 (7.4)	B			12.7	12.4 1255 12
5	7.8 (8.1)	8.0	8.05 10		13.5	13.1 1330 22
6	8.0 (8.3)	8.1	8.20 11		13.2	
7	7.	9.3			14.0	
8	7.	10.2			7.	
9		9.8				
10		11.1				
11		11.3				
12		11.8	11.6 1170 11			
13		12.0	12.2 1210 11			
14	12.4	12.7	12.3 1247 122			
15		12.6	12.7 1275 01			
16		13.3	13.4 1335 10			
Fogged	6.2? (6.5)	B.				
" Safetus	7.	9.9?				

This + following pages not read from curve.

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1914phae.proj.1046M

Monday, December 14, 1914

MC 222

Scale R. MC 5104 Saturn PC

	Sc.1	Sc.2		Sc.1	Sc.2	
a	1.5 (18)			7.9 (87)	8.4	8.30 1.1
b	6.1 (64)			7.	11.7	11.8 11.75 1.0
c	6.2 (65)				11.9	11.9 11.90 0.0
d	6.8 (71)		Fogged: near planet	Too near planet: fogged.		
e	6.9 (77)			Wrong star	12.6	12.2 11.9 12.6 12.47 1.31
f	7.2 (75)	B.			12.9	12.8 12.85 1.0
g	8.3 (86)	8.4	8.50 1.1		13.9	
h	7.	9.7			12.9	
h'		10.1			13.8	
k		10.2			7.	
l	7.	10.1			7.	
m		10.9				
n		11.1				
n'		11.1				
o		11.4				
p		12.1				
p'		13.1				
q		12.1				
r		12.1				
s		11.9				
t		12.6				
u		12.9				
u'	13.6	13.7	13.2	13.50 1.2.3		
w		13.4	13.3	13.30 1.1		
x		13.7	13.7	13.70 0.0		
y		13.9?	13.9?	13.90 0.0		
z		14.0	13.9	13.95 0.1		

Sun foggy

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1914phae.proj.1046M

Monday, December 14, 1914.

mc 222

Scale P. mc 5105 Pole

	Sc.1	Sc.2		mc 5109 fr 158	Diff	Sc.1	Sc.2	mc 5109 fr 158	Diff
5	.					7.7 7.9	B.	8.10 1 1	8.05 8.08 02 03 -159
6	.					8.2	8.7	8.60 1 1	8.70 8.65 05 05 -154
8	.						10.3	10.30 00	10.20 10.25 05 05 -202
9	.						11.1	11.10 00	11.00 11.05 05 05 -222
10	6.1 5.8			6.0	6.05 1 0	2.97	11.1	11.15 1 0	11.30 11.22 07 08 -220
11	6.9 6.6			6.5	6.70 2 2	2.85			
12	7.2 6.9			7.2	7.20 00	2.66	12.1	12.3	12.30 1 1 -234
13	8.0 7.7	B.		7.7	7.85 2 1	2.45	12.9	13.1	13.00 1 1 -270
14	8.2 7.9	8.2	8.20 00	8.1	8.15 05 05	2.50	13.0	13.4	13.20 2 2 -255
15	9.0 8.7	9.0	9.00 00	8.95	8.98 02 03	2.10	13.9	13.9	13.90 00 -282
16	9.3 8.9	9.3	9.25 01	9.6	9.42 17 18	1.98	14.0	14.0	14.00 00 -260
17	9.7	9.7		9.5	9.60 1 1	2.03	7.	7	. .
18		10.3		10.3	10.30 00	1.76			
19		10.8		10.8	10.80 00	1.62			
20		11.0		11.3	11.15 2 1	1.58			
23		11.8		11.95	11.88 08 07	1.46			
25		12.2	12.3	12.25 01	12.45	12.35 10 10	1.52		
26		12.9	12.9	12.90 00	12.95	12.92 02 03	1.41		
27		13.3	13.3	13.30 00	13.40	13.35 05 05	1.34		
28		13.8	13.8	13.80 00	13.90	13.85 05 05	1.26		
29		14.1	14.0	14.05 10	14.10	14.08 03 02	1.58		
30		7.	7.	.	7	. . .			
31									

Sm. dec.-slow.

Sup. on another star.

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Monday, December 14, 1914

Inc Series 222 Cand.

Scale R. Inc 5106 RZ Auriga Ref. Seq. Acb+.18 P.C.

	Sc.1:	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn.
	31.					7.				
1	2.8						9.8	9.6	9.701	-.188 7.82
	39.									
2	3.6						9.9	9.9	9.900	-.192 7.948
	62.									27 8
3	5.9				2.96 9.16		11.2	11.5	11.35 21	-.232 9.03
	65.									
4	6.2		B.		2.89 9.39		11.9	11.8	11.85 10	-.238 9.47
	89.									
5	8.6		8.9	8.900	2.17 11.07		14.0	13.9	13.950 1	-.269 11.26
6	7.		10.4		1.75 12.15	7.				
7			11.3		1.59 12.89					
8			11.8		1.52 13.32					
9			11.9		1.51 13.41					
10			12.5		1.45 13.95					
11	)		13.1	13.2	13.15 10	1.39 14.54				
12			13.7	13.7	13.700 0	1.36 15.06				
13			13.9	13.9	13.900	1.36 15.26				
14			14.0	14.0	14.000 0	1.36 15.36				
15			14.0	13.9	13.950 1	1.36 15.31				

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Monday, December 14, 1914

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Mc Series 222 Card.

Scale R. Mc 5106 RZ Aurigae Var. Seq. alt. +18 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		C	Curve	Magn
a	5.7 (60.)			3.02	9.02	7.	10.8	10.8	10.80	00	8.65
f	6.1 (64.)			2.91	9.31		11.7	11.7	11.70	00	9.35
e	7.4 (71.)	B.		2.52	10.22		13.1	13.2	13.15	1.0	10.54
d	7.1 (74.)	B.		2.60	10.00		12.7	12.7	12.70	00	10.16
c		~~9.7~~		.	.				.	.	.
g	8.1 (84.)	8.6		8.50	1.1 2.28						
f	8.8 (91.)	9.1		9.10	00 2.12		7.	13.9	13.90	.2	11.21
a	7.	9.7			1.95 11.65						
e		10.3			1.78 12.08						
k		10.6			1.70 12.30						
l		11.6			1.55 13.15						
h		11.3	11.4	11.35	1.0 1.58 12.93						
h'		11.9	11.7	11.80	1.1 1.52 13.32						
m		12.3	12.4	12.35	1.0 1.46 13.81						
m'		13.5	13.6	13.55	1.0 ~~1.45~~ 37 14.92 15.02						
n		13.9	13.8	13.85	1.0 ~~1.72~~ 37 15.27 2.2						
o		14.2	14.0	14.05	1.0 ~~1.40~~ 37 15.45? 42						
p		7.		?	.						
q											

Var.	9.2	2.10	11.30	

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Monday, December 14, 1914

Speeds

Mc Series 222

Card.

Scale R | Mc 5107 | C4 | Aux. + 16 | P.C.

	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Elongated		Curve.	Mag
1	B.									
2	2.0 2.3.		.				8.9	8.6	8.75 12 -.166	7.09
3	2.2 2.5.		.				8.7	8.3	8.7 8.57 13 1 -.161	6.96
4	3.7 4.0.		.				9.3	9.3	9.30 00 -.178	7.52
4a	4.1 4.4.		.				9.7	9.8	9.3 9.60 12 3 -.185	7.75
5	3.7 4.0.		.				10.2	10.2	10.20 00 -.199	8.21
6	4.4 4.7.		.				10.2		-.199	8.21
7	5.2 5.5.		3.14	8.64			10.7		-.212	8.58
8	4.9 5.2.		.	.			10.9		-.217	8.73
9	5.9 6.2.		2.97	9.17	Sup. on 25b.				.	.
9a	6.2 6.5.		2.89	9.39			11.7		-.235	9.33
10	6.6 7.1.		2.70	9.80			12.4		-.249	9.9
11	6.7 7.0.		2.73	9.73			12.4		-.249	9.9
12	6.9 7.2.		2.66	9.86	Elong.		12.3		-.247	9.85
13	7.1 7.4.		2.60	10.00			12.8		-.256	10.24
14	7.7 8.0.	B	2.42	10.42			13.6		-.267	10.93
15	8.1 8.4.	8.4	8.40 00	2.30	10.70		13.9		-.269	11.21
16	8.2 8.5.	8.5	8.50 00	2.28	10.78		13.9		-.269	11.21
17	8.9 9.2.	9.4	9.30 11	2.06	11.36		14.3		-.269	11.31
18	7.	9.8		1.92	11.72		7.		.	.
19		10.3		1.78	12.08					
20		10.8		1.65	12.45					
21		10.8		1.65	12.45					
22		10.9		1.64	12.54					
23		11.2		1.60	12.80					
24		12.1		1.49	13.59					
25		12.4		1.46	13.86					
25a		12.4		1.46	13.86					
25b										

P.C. of 9 Sup. on 25a?

All star images + all P.C's elong. slightly.

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Monday, December 14, 1914

Tr C Series 222 Card

Scale R me 5107 C4 (cont.) Alt. + 16 R.C.

		Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
Magn	26	12.9	12.8	12.85 10	1.42	14.27		
7.09	27	12.9	12.9	12.90 00	1.41	14.31		
6.96	28	13.7	13.8	13.75 10	1.36	15.11		
7.52	29	13.9	13.9	13.90 00	1.36	15.26		
7.75	~~30~~							
8.21	~~31~~							
8.21	~~32~~							
8.58	~~33~~							
8.73								
9.35	27a	12.9	12.9	12.90 00	1.41	14.31		
9.91	27b	13.7	13.6	13.65 10	1.37	15.02		
9.91								
9.53	c	10.6	10.6	10.60 00	1.70	12.30		
10.24								
10.93								
11.21								
11.21								
11.31								

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Monday December 14, 1914

Mc Series 222

Scale R. Mc 5109 Pole

	Sc.1	Sc.2		
5	.			
6	.			
8	.			
9	.			
10	5.7 6.0.			
11	6.2 6.5.			
12	6.9 7.2.			
13	7.4 7.7.	B.		
14	7.9 8.2.	8.0	8.10 11	
15	8.7 9.0.	8.9	8.95 01	
16	7.	9.6		
17		9.5		
18		10.3		
19		10.8		
20		11.3		
23		11.9	12.0 11.95 10	
25		12.4	12.5 12.45 01	
26		13.0	12.9 12.95 01	
27		13.4	13.4 13.40 00	
28		13.9	13.9 13.90 00	
29		14.1?	7. 14.10 ?.	
30		7.	f	
31				

See p 153

P. C.

Sc.1	Sc.2		
8.1 7.8	8.0 7.7	B	8.05 10
	8.05	8.8	8.72 11 6.5 1 2
	7	10.2	10.2 10.20 00
		11.1	10.9 11.00 11
		11.3	11.3 11.30 00
		11.9	
		12.3	
		12.1	
		13.4	
		13.9	
		14.0	
		7.	

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1914phae.proj.1046M

Monday, December 14, 1914

mC Series 222 Card.

Scan R. mc 5110 Neptune ? 7.58 + 20.5 Alt. +19 P.C.

	Sc.1	Sc.2		Bruce Magn	Sc.1	Sc.2		Curve Magn
	1.7				9.0.			
1	1.4			. .	8.7	8.8	8.90 11 -169	7.21
	4.6.				7.			
2	4.3			. .		10.5	10.2 10.35 12 -203	8.32
	5.9.							
3	5.6			3.05 8.95		11.7	11.5 11.60 11 -233	9.27
	7.4.							
4	7.1			2.60 10.00		13.0	13.2 13.10 11 -260	10.50
	8.4.							
5	8.1	B.		2.30 10.70		13.9	13.8 13.85 10 -269	11.16
	9.0.							
6	8.7	8.9	8.95 01	2.16 11.11		14.0	14.0 14.00 00 -269	11.31
7	7.	9.9		1.90 11.80		7.	. . .	
8		10.4		1.75 12.15				
9		11.7		1.54 13.24				
10		12.6		1.44 14.04				
11		12.9	12.9 12.90 00	1.41 14.31				
12		13.7	13.6 13.65 10	1.37 15.02				
13		13.7	13.7 13.70 00	1.36 15.06				
14		13.8	13.8 13.80 00	1.36 15.16				
15		13.9	13.9 13.90 00	1.36 15.26				

Images elongated slightly.

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1914phae.proj.1046M

Monday, December 14, 1914

MC Series 222

Card

Scale R MC 5111 γ and δ Geminorum Ref. Seq. P.C.

	Sc.1	Sc.2		Curves Magn	Sc.1	Sc.2		Curves Magn
1	B.				8.1 (8.4)	8.5		8.45 01 -1.58 6.87
2	5.2 (5.5)			3.14 8.64	7.	10.8	10.7 (10.8)	10.80 00 -2.15 8.65
3	6.8 (7.1)			2.69 9.79		12.0	12.1	12.05 01 -2.42 9.63
4	7.1 (7.4)			2.60 10.00		12.4	12.8	12.60 22 -2.52 10.08
5	7.7 (8.0)	B.		2.43 10.43		13.0	13.0	13.00 00 -2.59 10.41
6	8.8 (9.1)	8.8	8.95 12	2.16 11.11		13.9		-2.68 11.22
7	7.	10.0		1.87 11.87		7.		. .
8		10.5		1.73 12.23				
9		10.9		1.64 12.54				
10		11.8		1.58 13.32				
11		12.7	12.4	12.55 12	1.45 14.00			
12		12.9	12.9	12.90 00	1.41 14.31			
13		12.9	13.1	13.00 11	1.40 14.40			
14		13.5 → 13.7	13.3	13.50 022	1.38 14.88			
15		13.7	13.6	13.65 10	1.37 15.02			

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Monday December 14, 1914

Mc Series 222 copied. Card.

Scali R. Mc 5111 γ Geminorum alt. +19 P.C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
	14.					8.9.				
a	7.1	8.8				8.6	8.8	8.85 10 – 1.67		7.18
	4.9.									
e	4.6					7.	10.4	10.4 10.40 00 – 2.05		8.35
	5.8.					Wrong star meas?	11.1			
e	5.5	8.8		3.07	8.87		8.8	11.1 11.10 00 – 2.20		8.90
	6.2.					Sup. on star m?				
f	5.9			2.96	9.16			. . .		
	4.2.									
d	6.9			2.66	9.86		12.0	12.1 12.05 01 – 2.42		9.63
	6.8.									
f	6.5	B.		2.80	9.60		12.1	12.0 12.05 10 – 2.42		9.63
	4.4.									
g	7.1	B.		2.60	10.00		12.8	12.5 12.65 2.1 – 2.53		10.12
	5.4.									
h	8.1	8.3	8.35 01	2.30	10.65		13.8	– 2.68		11.12
	8.0.									
k	7.7	B.		2.42	10.42		13.0	– 2.58		10.42
	9.0.									
l	8.7	9.1	9.05 01	2.14	11.19		14.0	– 2.69		11.31
	9.3.						7.?			
m	9.?	9.1	9.20 1.1	2.10	11.30			. .		
n	7	9.9		1.90	11.80					
o		10.8		1.65	12.45					
p		10.9		1.63	12.53					
q		11.1		1.61	12.71					
s		11.7		1.54	13.24					
r		11.8		1.52	13.32					
u		11.3		1.59	12.89					
t		11.9	11.8 11.85 10	1.52	13.37					
w		12.1	12.1 12.10 00	1.49	13.59					
x		12.7	12.7 12.70 00	1.44	14.14					
y		* 11.9	12.9	1.41	14.31					
z		13.7	13.6 13.65 10	1.37	15.02					
z'		13.9	14.0 13.95 1.0	1.36	15.31					

Remeas Feb. 8. 1915.
x 12.8
y 13.1 Rec. O.
z 13.5

* Probably wrong star meas. – br. star near y.

Var. 6.9 2.77 9.67 12.7 – 2.54

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Monday December 14, 1914

Series 222 Card

Scale R Me 511 *S Geminorum Alt. +.19 P. C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn	
a	5.8 6.1.			300	9.10	7.	10.9	10.9	10.90 00 - 2.17	8.73	Has
f	3.5 3.8.			.	.	7.	9.9	9.9	9.90 00 - 1.92	7.98	
e	6.0 6.3.			2.94	9.24		11.5	11.6	11.55 1.0 - 2.32	9.23	
d	6.6 6.9.			2.76	9.66		11.9	12.0	11.95 1.0 - 2.40	9.55	
e	6.3 6.6.	B.		2.85	9.45		11.9	11.9	11.90 00 - 2.39	9.51	
p	7.9 8.2.	8.0	8.10 1.1	2.40	10.50	7.			f . .		
f'	8.0 8.3.	8.1	8.20 1.1	2.36	10.56		14.0		-2.68	11.32	
g	8.2 8.5.	8.9	8.70 2.2	2.23	10.93		13.9		-2.68	11.22	Has faint comp.
h	8.9 9.2.	9.1	9.15 0.1	2.11	11.26		14.0		-2.68	11.32	Poor
k	7.	9.9		1.90	11.80						
l		10.3	10.3 10.30 00	1.78	12.08						
m		10.6	10.8 10.70 1.1	1.68	12.38						
n		11.1	11.4 11.25 1.2	1.60	12.86						
o		11.1	11.1 11.10 00	1.60	12.70						
p		11.7	11.9 11.80 1.1	1.52	13.32						

Var. 10.3 7.

*See note on plate cover

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Monday, December 14, 1914

Series 222.

Card

Scale R m ε 5112 D 5 This plate is Quality B in Journal. P. e.

Alt -.18

Page		Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
						Too poor.			
3	Has faint comp.	1 2.5	2.8						
8		2 3.9	4.7			7	9.7 9.5	960	11 -185 775
3		3 3.9	4.7			8.9	9.7 9.1	915	01 -176 739
5		4 3.6	3.9			7.	Reject.		
7		5 4.9	5.2				~~9.8~~ 9.1	Too much elong.	
		6 4.9	5.2				10.5 10.3	1090	20 -205 835
2		7 5.4	5.7	3.10	8.80		10.4		-205 835
22		8 5.7	6.0	3.02	9.02		10.9		-217 873
32	Too poor.	9 .		.	.	Too poor.	10.9		-217 873
		10 6.7	7.0	2.72	9.72		.		. .
		11 6.6	6.9	2.76	9.66		12.1		-243 967
		12 6.9	7.2	2.66	9.86		11.9		-239 951
		13 6.9	7.2	2.66	9.86		12.4		-249 991
		14 7.7	8.0	2.42	10.42		12.7		-254 1016
		15 7.9	8.2	2.37	10.57		13.1		-259 1051
		16 7.9	8.2	2.37	10.57	B.	13.2		-262 1068
		17 8.1	8.4	8.1	8.25 21	2.30	13.2		-261 1059
		18 8.3	8.6	8.7	8.65 01	2.25	13.7		-267 1103
		19 8.6	8.9	8.8	8.80 10	2.20	13.9		-268 1122
		20 7.		9.9		1.90	13.9		-268 1122
		21		10.1		1.83	7.		. .
		22		10.3		1.78	7.		. .
		23		10.8		1.64			
		24		10.8		1.64			
		25		10.9		1.63			
		26		11.3		1.59			
		27		11.4		1.57			

Images elongated.

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Monday, December 14, 1914

Inc Series 222 : Card

Scale R Int 5112 D5 (cont.) P.C.

	Sc.1	Sc.2		Curve	Magn	
28	11.3			159	12.89	
29	12.1			149	13.59	
30	12.1			149	13.59	:
31	12.0			150	13.50	
32	12.3			147	13.77	
33	13.0	12.9	12.95 01	141	14.36	Im
34	13.1	13.4	13.25 12	139	14.64	Im.
35	13.3	13.3	13.30 00	139	14.69	Im.
36	13.3	13.5	13.40 11	138	14.78	
37	13.8	13.7	13.75 01	136	1511	
38	10.1	10.1	10.10 00	183	1193	

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1914phae.proj.1046M

Monday. December 14, 1914

mc Series 222 Card.

Scale R mc 5113 *9h00 +55° Quality B in Journal. P. C.

	Sc.1	Sc.2				Sc.1	Sc.2			Curve	Magn
1	B.				Curve	Magn	Im. def.				
2	2.1 (24.)						9.7	9.8	9.2	9.57 12.4	-1.85 772
3	3.0 (38.)						10.6	10.6		10.60 00	-2.10 850
4	4.5 (48.)						11.7	11.6		11.65 10	-2.34 931
5	5.2 (55.)				3.14	8.64	12.8	12.4		12.60 22	-2.52 1008
Im. pec.	6	B					14.0	14.0		14.00 00	-2.58 1142
Im. pec.	7						7.				
Im. pec.	8										
	9		12.7	12.6	12.65	10 1.43	14.08				
	10		13.1	12.9	13.00	11 1.40	14.40				
	11		13.9	13.8	13.85	10 1.36	15.21				
	12		13.8	13.7	13.75	01 1.36	15.11				
	13		14.0	14.0	14.00	00 1.36	15.36				
	14		14.0	7.		1.36	15.36				
	15		7.	7.							

(2.2m out)
3.40

* W Wisar Majoris off Plate See plate cover.

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1914phae.proj.1046M

Friday, January 8, 1915

2.08 mc Series 307 Yellow

Scale W mc 6104 Pole P.C.

Sc.1	Sc.2	mc 6109 + 171	Mean	Diff.		Sc.1	Sc.2	mc 6109 + 171	Mean	Diff
5 B.						7.	8.6 8.7	865 01	860	862 -2.19
6 4.2 4.3	B.		37	400	33 298				0302	
8 5.9 6.0	5.9	595 01	550	572	23 22 231		9.3 9.4	935 10	925	930 -2.32
9 6.9 7.0	7.1	705 01	675	690	15 15 184				0305	
10 7.3 7.4	7.6	750 11	725	738	12 13 150		7. 7	.	995	995 -1.92
11 7.9 8.0	8.0	800 00	785	792	08 07 144					
12 7.	8.2		805	812	08 07 146					
13	8.7 8.9	880 11	865	872	08 07 136					
14	8.9 8.9	890 00	870	880	10 10 144					
15	9.4 9.4	940 00	895	918	22 23 146					
16	9.8 9.8	980 00	930	955	25 25 139					
17	9.8 9.8	980 00	950	965	15 15 139					
18	7.	.	.							
19										
20										
22										
25										
7 4.9 5.0	B.									
	7.		47	485	2 1 261	7.	9.9 9.8	985 10	980	982 -2.36
									0302	

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1914phae.proj.1046M

Friday, January 8, 1915

mc 307 Yellow

Scale W mc 6104 Pole (cont.)

	Sc.1	Sc.2		6109 + 172	Mean	Cor.	Magn	Sc.1	Sc.2		Mean
2n	2.9 30	B.			2.2	2.60		7.	8.7	8.7 8.70 00	865 868 -2.70
4n	6.1 62	6.2		6.20 00	595	6.08 12 13	2.12	8.20	7.	.	.
5n	6.8 69	6.9		6.90 00	6.80	6.85 05 05	2.31	9.16	7.	.	.
6n	7.7 78	7.8		7.50 00	7.50	7.65 15 15	1.52	9.17			
7n	7.	8.3	8.2	8.25 10	7.95	8.10 15 15	1.44	9.54			
8n		8.9	8.9	8.90 00	8.70	8.80 10 10	1.41	10.21			
9n		9.4	9.6	9.50 11	9.15	9.32 18 17	1.40	10.72			
10n		7.		.	.	.	.				
11n											
12n											
4s		B. 8.4			8.00	8.20 20 20	1.43	9.63			
5s		8.4	8.4	8.40 00	8.05	8.22 17 17	1.43	9.65			
+88°2	5.8 59	6.0		5.95 10	5.65	5.80 15 15	2.24	8.04	7.		
+88°105	6.3 64	6.4		6.40 00	6.15	6.28 12 13	2.04	8.32			
+88°90	7.4 75	7.5		7.50 00	7.35	7.42 08 07	1.58	9.00			
+88°115	7.4 75	7.6		7.55 10	7.20	7.38 17 18	2.10	9.48			

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mc Series 307 Yellow

Scale W mc 6105 * κ Sculi Alt. -.08 P.C.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2			
a	6.2 (6.3)	5.9	6.2	6.13	2 2 1	2.23 (1)	8.26 (2)	7.	9.9	9.8	9.85 1 0 -2.36 7.49
b	6.5 (6.6)	6.7		6.65	0 1	1.89	8.54		9.7	9.7	9.70 0 0 -2.35 7.35
c	7.1 (7.2)	7.2		7.20	0 0	1.67	8.87		7	.	. .
d	7.7 (7.8)	7.7		7.75	0 1	1.49	9.24				
d'	7.9 (8.0)	7.9		7.95	0 1	1.46	9.41				
e	7.9 (8.0)	7.9		7.95	0 1	1.46	9.41				
e'	7.	9.2	9.1	9.15	0 1	1.40	10.55				
f		9.1	9.1	9.10	0 0	1.41	10.51				
g		10.0	7	10.00?	≧ 7						
h		10.0	9.9?	9.95	0 1						
k											
l											
m											
n											
o											
p											
q											
r											
s.											

* See note of cover: Nova Sag. not to be measured

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mc Series 307 Yellows copied.

Scale W mc 6106 Poor Region Scatt Sob. Alt. +.01 P.E.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2		Curve	Magn
1	B.					7.	8.3	8.2	8.25 10	6.11
2	B.						8.1	8.1	8.10 00	5.98
3	3.6 (3.7)						8.8	8.7	8.75 01	6.51
4	5.6 (5.7)	5.1	5.1	5.40 33	7.80		9.6	9.6	9.60 00	7.25
5	5.8 (5.9)	6.1		6.00 11	8.16		10.0?	9.8?	9.90 11	7.54?
6	6.6 (6.7)	6.4		6.55 12	8.47		7.	F	F	.
7	6.8 (6.9)	6.9		6.90 00	8.68					
8	6.6 (6.7)	6.3	6.7	6.60 11	8.50					
9	7.4 (7.5)	7.4		7.45 10	9.03					
10	7.3 (7.4)	7.4		7.40 00	8.99					
11	7.3 (7.4)	7.2		7.30 11	8.93					
12	8.0 (8.1)	8.2		8.15 10	9.59					
13	7.	8.3			9.73					
14		8.7			10.12					
15		8.9			10.31					
16		9.4	9.3	9.35 01	10.76					
17		9.6	9.7	9.65 01	11.05					
18		9.7	9.7	9.70 00	11.11					
19		9.6	9.7	9.65 01	11.05					
20		9.7	9.9	9.80 11	11.21					
21		7.		F	F	.				
22										
23										
24										
25										
26										
27										

Dec. agrt compare well

(Wrong star)

Dec. not compare well

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mc Series 307 Yellow copied

Scale W mc 6108 C10 Alt. +.08 P.C.

	Sc.1	Sc.2	Curve Magn	Sc.1	Sc.2	Sc.2	Curve Magn
1	3.1			7.	8.8	8.8	8.80 00 − 2.36 6.55
2	3.7		3.80 00 3.00 6.80			9.0	9.2	9.10 11 − 2.36 6.74
3	3.3					8.9	8.8	8.85 10 − 2.26 6.59
4	4.3	B.	2.78 7.18		9.5	9.7	9.3	9.50 02 − 2.20 7.30
5	5.8	5.7	5.80 11 − 2.24 8.04			9.9	9.9	9.90 00 − 2.36 7.54
6	.	.	. .	Large + Lazy				. −.29 .
7	3.9	B.	2.94 6.94			9.1		−.29 6.81
8	7.1	7.3	7.25 01 1.66 8.91			7.		. .
9	6.6	6.7	6.70 00 1.86 8.56					
10	7.5	7.6	7.60 00 1.53 9.13					
11	7.8	7.9	7.90 00 1.46 9.36					
12	7	8.7 8.7	8.70 00 1.42 10.12					
13		8.9	1.41 10.31					
14		8.9	1.41 10.31					
15		8.9 8.9	8.90 00 1.41 10.31					
16		9.2 9.0	9.10 11 1.41 10.51					
17		9.8 9.7	9.75 01 1.41 11.16					
18		9.4 9.6	9.50 11 1.41 10.91					
19		9.9 9.7	9.80 11 1.41 11.21					
20		10.0? 10.0?	10.00 00 . .					
f		7.						
e		7.						

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mc series 307 Yellow

Scale W	mc 6109		Pole			PC		
	Sc.1	Sc.2				Sc.1	Sc.2	
5	B.					7.	8.6 8.6	8.60 0.0
6	3.6 3.7.		B.				9.3 9.2	9.25 1.0
8	5.6 5.7.		5.3	5.50 2.2			9.9 10.0	9.95 1.0
9	6.7 6.8.		6.7	6.75 0.1			7. 7.	.
10	7.1 7.2.		7.3	7.25 0.1				
11	7.7 7.8.		7.9	7.85 0.1				
12	7.9 8.0		8.1	8.05 0.1				
13	7.		8.7	8.6	8.65 1.0			
14			8.7	8.7	8.70 0.0			
15			9.0	8.9	8.95 0.1			
16			9.3	9.3	9.30 0.0			
17			9.4	9.6	9.50 1.1			
18				7.	.			
19								
20								
23								
25								
	7. 4.6 4.7.		B				9.7 9.9	9.80 1.1

See p. 166

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Mc Series 307 Yellow

Scale W Mc 6109 Pole (cont) Pc.

	Sc.1	Sc.2		Sc.	Sc.2	
	27					
2n	2.1	B.		H.	8.7 8.6	865 10
4n	5.8 5.7	6.1	595 ± 1		H. H.	
5n	6.8 6.8	6.8	680 00			
6n	7.5 7.4	7.5	750 00			
7n	8.0 7.9	7.9	795 01			
8n		8.7	8.7 870 00			
9n		9.1	9.2 915 10			
10n		H.				
11n						
12n						
4s		7.9	8.1 800 11			
5s		8.1	8.0 805 10			
+88° 2s	5.7 5.6	5.6	565 10	H.		
+88° 105	6.2 6.1	6.1	6.15 01			
+88° 90	7.4 7.3	7.3	7.35 01			
+88° 115	7.3 7.2	7.1	7.20 11			

4.31

See p. 167

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Saturday, January 9, 1915

9.45 mc Series 307 (2nd Part) Yellow

Scale W mc 6109 Pole

	Sc.1	Sc.2		mc 6115 ∓181	Mean.	Diff		Sc.1	Sc.2		6115 ∓181		
5	B.	B.						7.	8.7	8.7	870 00	8.35	852 −2.09
6	3.9 40.	B.			27 335	6	1 3.63		9.3	9.2	925 10	885	905 −2.07
8	5.7 56.	5.6	570 11		48 525	45	45 2.78		9.9	9.9	990 00	9.10	950 −1.47 −1.85
9	6.7 68.	6.7	675 01		655 665	10	10 2.09		7	7	.	985	988 −1.11
10	7.2 73.	7.3	730 00		680 705	25	25 1.83						
11	7.8 49.	7.9	790 00		765 778	12	13 1.58						
12	7.	8.2			785 802	18	17 1.56						
12		8.7	8.8 875 10		815 845	30	30 1.63						
14		8.7	8.7 870 00		840 855	15	15 1.69						
15		9.1	9.0 905 10		870 888	17	18 1.76						
16		9.3	9.4 935 10		900 918	17	18 1.76						
17		9.7	9.7 970 00		925 948	22	23 1.56						
18		7.	7. .		935 975	.	a= 1.81						
19		7	.		1000 1000	.	a= 1.94						
20													

Im. poor. 7. B. 38 880 . a= 3.66 9.7 9.10

1914phae.proj.1046M

~~Saturday~~ Friday January 9. 1915 Plot 191.

Mc. Series 307 (Part 2) Yellows

Scale W Mc 6109 Pole (cont) P.C.

	Sc.1	Sc.2	Comp.	MC 6115 f=180	Mean	Cu.	Magn	Sc.1	Sc.2	6115 f=180				Comp
	24				11									
2n	2.3	B.		2.2	2.30			7.	8.7	8.70	8.55	8.62	03 07	-.222
	60				15 15									
4n	5.9	6.1	6.05 01	5.75	5.90	2.38	8.28		7	10.00	10.00	.a		-.236
(wrong star)	65	6.8			22 23					2				
5n	6.7	6.8	6.80 00	6.35	6.58	2.05	8.63							
	75				27 28									
6n	7.4	7.6	7.55 10	7.00	7.28	1.72	9.00							
	80	8.1			13 12									
(wrong star)	7.9	7.7	8.05 01	7.80	7.92	1.65	9.57							
					17 18									
8n	7.	8.8 8.7	8.75 01	8.4	8.58	1.67	10.25							
					35 36									
9n		9.2 9.1	9.15 01	8.85	9.50	1.77	11.27							
					.a									
10n		7.	.	9.85	9.85	1.83	11.68							
					.a									
11n			.	9.80	9.80	1.82	11.62							
12n				7	.	.	.							
	81				18 17									
4s	8.0	8.1	8.10 00	7.75	7.92	1.65	9.57							
					15 15									
5s	7.	8.1 8.2	8.15 10	7.85	8.00	1.64	9.64							
	58				26 27									
+88° 2s	5.7	5.8	5.80 00	5.27	5.54	2.55	8.09		7.					
	64				25 25									
+88° 10s	6.3	6.3	6.35 01	5.85	6.10	2.29	8.39							
	74				27 28									
+88° 9s	7.3	7.2	7.45 01	6.90	7.18	1.78	8.96							
	75				15 15									
+88° 11s	7.4	7.3	7.40 11	7.10	7.25	1.77	9.02							

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~~Saturday~~ ~~Friday~~, January 9, 1915

Mc Series 207 (Part 2) Yellow

Scale W Mc 6110 γ Delphini Rel. Eq P.C.

	Curve	Magn	Sc.1	Sc.2	Curve	Magn	Sc.1	Sc.2	Curve	Magn
1			2.6 27'	B.			7	8.6 8.6	8.60	00 -2.08 6.52
2			5.1 58'	5.6	5.70	1 2.43 .18 8.22		9.1 8.9	9.00	1 -2.06 6.94
3			5.1 52'	B.		2.75 7.95		9.5 ~~8.9~~ 9.4	9.45	1 0 -1.97 7.48
4			6.3 64'	6.3	6.35	0 2.15 8.50		9.9 ? 7.	9.9?	2 -1.82 8.08?
5			7.2 73'	7.4	7.35	1 0 1.73 9.08		7		
6			6.7 68'	6.9	6.85	0 1 1.94 8.79				
7			7.9 80'	8.1	8.05	0 1 1.64 9.69				
8			8.0 81'	8.2	8.15	1 0 1.64 9.79				
9			7.	8.8 8.7	8.75	0 1 1.68 10.43				
10				8.7 8.6	8.65	1 0 1.67 10.32				
11				9.4 9.4	9.40	0 0 1.75 11.15				
12				7. 7.						
13			Im. hazy.	9.7 ? 9.8 ?	9.75	1 0 1.82 11.57?				
14				7.						
15										
16										
17										
18										
19										
20										
21										
22										

-222 6.40

-236 7.64

Reject. Rel. meas.

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Saturday, January 9, 1915

M C Series 307 (Part 2) Yellow

Scale W M C 6110 γ Delphini Var. Seq. P.C.

	Sc.1:	Sc.2:	Curve Magn.	Sc.1	Sc.2.
	7.0			7.	7.
a	6.9	7.0	7.00 00 1.85 8.85		
b	6.8	6.9	6.90 00 1.90 8.80		
c	7.4	7.1	7.60 −1 1.68 9.28		
d	7.7	7.9	7.85 01 1.66 9.51		
e	7.7	7.9	7.85 01 1.66 9.51		
e′	8.0	8.1	8.10 00 1.65 9.75		
f	7.3	7.6	7.50 −1 1.70 9.20		
g	7	8.3	1.65 9.95		
h	7.	9.0 9.0	9.00 00 1.70 10.70		
k		9.8 9.8	9.80 00 1.82 11.62		
l		9.0 8.9	8.95 01 1.70 10.65		
m		9.3 9.5	9.40 −1 1.75 11.15		
n		9.4 9.4	9.40 00 1.75 11.15		
n′		9.3 9.2	9.25 10 1.73 10.98		
o		10.0 10.0	10.00 00 1.87 11.87		
p²		9.9 9.9	9.90 00 1.84 11.74		
p′		9.7 9.4	9.55 12 1.78 11.33		
p		9.2 9.2	9.20 00 1.73 10.93		
q		7. 9.3	9.30 −2 1.73 11.03		
r		7 7.	. . ,		
r′					
s					
t					
q′					
Var.		m.s.?			

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Saturday January 9, 1915

MC Series 807 (Part 2) Yellow

Scale W MC 6113 3 S Ceti alt. +.07 pc.

	Sc.1	Sc.2			Curve	Magn	Sc.1	Sc.2			Curve	Magn
a	3.4 35.	B.			3.70	7.20	7.	9.7	9.6	9.65	10-1.91	7.74
d	6.3 64.	6.3	6.35	01	2.15	8.50		7.	7.	,	.	.
e	6.8 69.	7.1	7.00	11	1.85	8.85		7.	7.	,	.	.
c	4.1 48.	B.			.	.		9.9	9.9	9.90	00-1.82	8.08
f	4.3 44.	B.			,	.		9.9	9.9	9.90	00-1.82	8.08
g	7.2 7.3	7.5	7.40	11	1.72	9.12		7.				.
h	8.3	8.3	8.30	00	1.65	9.95						
q		8.1	8.10	00	1.65	9.75						
k		8.7	8.70	00	1.68	10.38						
l		8.6	8.65	01	1.67	10.32						
m		8.7 10.0?			1.88	11.88?						
n		7.			.	.						
n'		7.			,	.						
o												
q,												
q.												
r												
s												
t												
u												
w												
Var	8.4	8.6	8.3		8.43	02 1	1.66	10.09				

* See note on star "p" on cover of MC 6284

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Saturday, January 9, 1915

MC Series 307 (Part 2) Yellow

Scale W MC 6114 ζ Z Cygni Var. Seq. P. C.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2			
a	3.4 (35.)	B.			3.70	7.20	7.	9.8	9.7	9.75 1.85 11.57 (7.0)
b	7.2 (13.)	7.3		7.30	00	1.74	9.04	7.	7.	, ,
c	6.9 (10.)	7.1		7.05	01	1.83	8.88			
d	7.	8.7	8.4	8.55	12	1.67	10.22			
e	7. (8.1)	8.6	8.6	8.60	00	1.67	10.27			
f	8.0	8.2		8.15	±0	1.65	9.80 (9.85)			
g		8.8	8.8	8.80	00	1.68	10.48			
h		9.7	9.4	9.55	12	1.78	11.33			
k		9.9	9.9	9.90	00	1.85	11.75			
l		10.0	10.0?	10.00	00	1.88	11.88?			
m		7.	7.							
n		7.								
o		10.0								
p		7.								
q										
r										
s										
t										
Var.		9.7	9.9	9.80	11	1.42 (8)	11.72 (6)			

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Saturday, January 9, 1915

mc Series 307 (Part 2) Yellow

Scale W mc 6115 RZ Cygni Pole Ref. Seq. P.E.

	Sc.1	Sc.2		Curve	Magn	Sc.1	Sc.2
1	6.3 (6.4)	6.2	6.30	11	219 8.49	7.	7.
2	6.7 (6.8)	6.7	6.75	01	196 8.71		
3	7.3 (7.4)	7.3	7.35	01	1.73 9.08		
4	7.7 (7.8)	7.7	7.75	01	167 9.42		
5	8.3 (8.1)	8.2	8.15	10	165 9.80		
6	7.	8.7			168 10.38		
7	8.0 (8.1)	8.2	8.15	10	165 9.80		
8	7.	8.9	8.9	8.90	00 169 10.59		
9	7.	8.7	8.7	8.70	00 168 10.38		
10		9.9	9.8	9.85	10 1.83 1168		
11		9.8	9.9	9.85	01 1.83 1168		
12		7.	7.	.	. .		
13		9.2	9.3	9.25	01 1.78 1095		
14		7.	10.0?	10.00?	.0 188 1188		
15							
16							
17							
18							
19							
20							

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Saturday January 9, 1915

Inc Series 307 (Part 2) Yellows

Scale W	Inc 6115		Pole (cont'd)		P.C.		
	Sc.1	Sc.2			Sc.1	Sc.2	
2r	2.2 2.1	B.			7.	8.7 8.4	855 12
4r	5.9 5.8	5.6	5.75 12			19.0? 10.0?	10.00 00
5r	6.4 6.3	6.3	6.35 01			7. 7.	
6r	7.0 6.9	7.0	7.00 00				
7r	7.8 7.7	7.8	7.80 00				
8r	7.	8.4					
9r		8.9	8.8	8.85 10			
10r		9.8?	9.9?	9.85 01			
11r		9.8	9.8	9.80 00			
12r		7.					
4S	7.8 7.7	7.7		7.75 01			
5S	7.9 7.8	7.8		7.85 10			
Diff in $S_1 + S_2$? +88° 2	5.5 5.4	5.1	5.2	5.27 22			
+88° 105	5.8 5.9	5.9		5.85 01			
+88° 90.	7.0 6.9	6.8		6.90 11			
+88° 115	7.0 6.9	7.2		7.10 11			

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Saturday, January 9, 1915

Mc Series 307 (Part 2) Yellow

Scale W Mc 6115 Pole (cont)

	Sc.1	Sc.2			Sc.1	Sc.2		
5	B.				7.	8.3	8.4	8.35 10
6	2.6 (2.7)					8.9	8.8	8.85 10
8	4.7 (4.8)	B.				9.8	9.9	9.85 01
9	6.7 (6.5)	6.6		6.55 10		7.		,
10	6.8 (6.9)	6.7		6.80 11				
11	7.6 (7.7)	7.6		7.65 10				
12	7.8 (7.9)	7.8		7.85 10				
13	8.0 (8.1)	8.2		8.15 10				
14	7.	8.4	8.4	8.40 00				
15		8.7	8.7	8.70 00				
16		9.0	9.0	9.00 00				
17		9.4	9.1	9.25 21				
18		9.7	9.8	9.75 10				
19		10.0	10.0	10.00 00				
20		7.		,				

7	3.7 (3.8)	B. 9.1				9.1	9.1	9.10 00

(10 m out)
12.25

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Monday, January 11, 1915

2.10 MC Series 308 Yellow

Scale W MC 6116 Pole

	Sc.1	Sc.2	MC 6121 p. 186	Sc.1	Sc.2	MC 6121
5	B.			?	8.2 8.3	825 860
6	3.1 32		3.5		8.8 8.9	885 905
Too far from centre 9m. poor.	? .		.		9.1 9.3	920 935
8	4.7 48	B.	5.30		9.9 9.8	985 .
9	6.3 63	6.1	6.20 11 6.70		? ?	. .
10	6.8	6.6	6.70 11 7.10			
11	7.1 77	7.2	7.20 00 7.7			
12		7.3	7.9			
13		7.9	8.60			
14		8.2 8.2	8.20 00 8.75			
15		8.7 8.7	8.75 10 9.00			
16		8.8 8.9	8.85 01 9.35			
(Wrong sta.) 17		8.9 8.9	8.90 00 9.85			
18		9.7 9.8	9.75 10 .			
19		? ?	. .			
20						

Plate MC 6121 rejected, discordant. This plate MC 6116 ok.
Magn. copied page 203

+87° 12	4.6 47	B.		5.0	9.7	10.0?
88° 2	4.7 48	B.		5.75	9.9	?
90	6.3 64	6.7	6.55 21	6.90	?	?
105	4.8 49	B.		5.80	9.9	?
+87° 15	5.1 57	B.		5.25	9.6	10.0?
88 80	6.5 68	6.7	6.75 01	6.95	?	?
86	6.3 63	6.0	6.15 12	6.75	?	?
115	6.8 64	6.3	6.35 01	7.07	?	.

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1914phae.proj.1046M

Monday, January 11, 1915

Series Mc 308 Yellows

Scale W Mc 6116 Pole

	Sc.1	Sc.2		Sc.1	Sc.2	
				8.0		
2r	B.			7.9	8.1	8.05 01
3r	4.7 4.1			7	8.9 9.1	9.00 11
4r	5.0 4.9	B.			9.7 9.8	9.75 10
5r	5.9 5.8	5.7	5.80 11		10.0 10.0	10.00 00
6r	7.0 6.9	6.9	6.95 01		7. 7.	
7r	7.8 7.7	7.6	7.70 11			
8r		8.1 8.1	8.10 00			
9r		8.7 8.6	8.65 10			
10r		9.9 9.7	9.80 11			
11r		9.9 9.9	9.90 00			
12r		7. 7.				
4s		7.7 7.6	7.65 10			
5s	7.5 7.4	7.7	7.60 11			
6s		8.4 8.4	8.40 00			
7s						
8s		7.				
9s						
10s						
11s						
a'		8.2 8.3	8.25 01			
a''		9.3 9.3	9.30 00			
b		8.7 8.8	8.75 10			
c		9.3 9.3	9.30 00			
d		8.9 8.9	8.90 00			
e		9.3 9.4	9.35 10			
f						
g		98?	9.80 a.			

Too near 5.5

Too near Mc 6116

Too near Mc 6116

Too near Mc 6116

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1914phae.proj.1046M

January 11, 1915 Monday Copied BK 23:214

Mc Series 308 Yellow

Scales W Mc 6117 D 10s Alt -11

	Sc.1	Sc.2	Lw	Magn	Sc.1	Sc.2		Lw	Magn
1	4.7 (4.6)	B.	3.11	7.91	7.	9.7	9.7	9.70 00 -1.86	7.84
2	B.					8.0	8.1	8.05 01 -	
3	3.7 (3.8)	B.	3.09	7.39		8.9	9.0	8.95 ±0 -1.88	7.07
4	5.7 (5.8)	5.2 5.3	5.43 42 ±	2.80	8.23	9.9?	7.	9.90? ±. -1.84	8.06
5	3.8 (3.9)	B.	3.55	7.45		9.0	9.2	9.10 ±1 -1.89	7.21
6	5.1 (5.2)	B.	2.93	8.12		9.7		-1.86	7.84
7	5.7 (5.8)	5.3	5.55 03 ±	2.76	8.29	10.0?		-1.83	8.17
8	6.1 (6.2)	6.2	6.20 00	2.48	8.68	7.			
9		6.7		2.30	9.00				
10		6.3		2.45	8.75				
11		6.9		2.26	9.16				
12		7.1		2.20	9.30				
13		6.3		2.45	8.75				
14		7.9		2.08	9.98				
15		7.6		2.12	9.72				
16		7.4		2.15	9.55				
16a		8.4		2.03	10.43				
17		8.7		2.00	10.70				
18		8.3 8.3	8.30 00	2.04	10.34				
19		8.7 8.8	8.75 ±0	2.00	10.75				
20		8.7 8.9	8.80 ±1	2.00	10.80				
21		8.7 8.8	8.75 ±0	2.00	10.75				
22		9.3? 9.7?	9.50? ±2	1.93	11.43?				
23		9.4? 9.7?	9.55? ±1	1.92	11.49?				
24									

No. 5 off the scale does not agree with Sc. 1 & Sc. 2!

Im. h

Im. h

Im. h

Im.

Im.

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1914phae.proj.1046M

January 11, 1915 Monday Spied BK 23:142

Me Series 308 Yellow

Scale W Me-6118 C 12 Alt. +.09

	Sc.1	Sc.2	Cu magn	Sc.1	Sc.2	Cu magn
1	2.1		·	4.	8.7 8.7	8.70 00 −1.88 −2.00 6.82
2	·				8.5 8.4	8.45 10 −1.87 −2.03 6.58
3	3.7 3.6		3.64 7.94		9.2 9.2	9.20 00 −1.88 −1.96 7.32
4	2.3 2.2		·		8.6 8.3	8.55 01 −1.87 −2.01 6.68
5	3.6 3.5	B.	3.67 7.27		8.9 9.0	8.95 10 −1.88 −1.98 6.97
6	5.8 5.7	5.1 5.8	5.47 03 ± 2.78 8.25		10.0	1000 ≏ −1.83 8.17
7	5.8 5.7	Fo.	5.80 00 2.66 8.46 hidden by mark.		·	·
8	·			4.	·	
9	6.3 6.2	6.2	6.25 10 2.47 8.72	4.	·	
10	5.4 5.3	5.1	5.25 21 2.90 8.15			
11	7.0 6.9	6.9	6.95 01 2.24 9.19			
12		6.2	2.48 8.68			
13		7.7	2.10 9.80			
14		6.7	2.31 9.01			
15		6.7	2.31 9.01			
16		6.9	2.27 9.17			
17						
17a		7.7 7.6	7.65 10 2.11 9.76			
18		8.8 8.7	8.75 01 2.00 10.75			
19		9.7 9.4?	9.55? 12 1.93 11.48			
19a		9.4 9.4	9.40 00 1.93 11.33			
20		9.6 9.7	9.65 01 1.91 11.56			
21		9.8 9.9	9.85 01 1.90 11.76			
21a		10.0?	1000 ≏ 1.88 11.88			
22						

Too faint.

Too poor.

Too faint.

Wrong unit.

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1914phae.proj.1046M

Monday, January 11, 1915

Mc Series 308 Yellows

Scale W Mc 6[1/4] Pole Cassiot Pl Seq P.C.

This plate very Discordant. Reject.

		Sc.1	Sc.2		Sc.1	Sc.2		
Too poor.	5				7.	8.6	8.6	86000
	6	3.4 35				9.0	9.1	90501
Too poor.	7		B.			9.3	9.4	93510
(Wrong star)	8	5.4 55 ~~6.6~~	5.1	53022		7.	7.	.
	9	6.6 67	6.7	67000				
	10	7.0 71	7.1	71000				
	11		7.7					
	12		7.9					
	13		8.6	8.6 86000				
	14		8.7	8.8 87510				
	15		9.0	9.0 90000				
	16		9.3	9.4 93510				
	17		9.8	9.9 98501				
	18		7.	7. .				
	19							
	20							
	21							
+87°	12	4.9 50	B.			10.0?	7.	
+88°	13	5.7 58	5.7	57501		7.		
	90	6.8 69	4.9	69000		7.		
	105	5.8 59	5.7	58011		7		
Im.poor. +87°	15	5.4 55	5.0	52532		10.0?	7.	
+88°	80	6.7 68	7.1	69521		7.		
	86	6.7 68	6.7	67501		7.		
	115	7.0 71	7.0	7.1 70701				

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1914phae.proj.1046M

Monday January 11, 1915

Mc Series 308 (cont.) Yellows

Scale W	Mc 61	Pole (cont.)	Yellows	P.C.
	Sc.1 Sc.2		Sc.1	Sc.2
2r	2.2 B.		7.	8.4 8.5
3r	4.3 B.			9.4 9.4
4r	5.8 5.7			9.9? 10.0?
5r	6.3 6.4			7.
6r	7.4 7.4			7.
7r	7.7 7.9			
8r	8.7	8.6		
9r	9.0	9.0		
10r	7.			
11r				
12r				
4s	7.9 8.1			
5s	7.7 8.1			
6s	7.	8.9 8.9		
7s	7	7.		
8s				
9s				
10s				
a'		8.7 8.7		
a^2		9.8 9.9		
b		9.3 9.3		
c		7. 10.0?		
d		9.7 9.6		
e				
f		7. 7.		
g		7		
h				

Sm. hazy

4.24

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Tuesday, January 12, 1915

10.10

MC Series 308 (cont.) Yellow

Scale W Pole

	Sc.1	Sc.2		MC 6121	MC 6127				Sc.1	Sc.2	6121	6127
				Rejected								
5	B.								7.			
6	3.0 3.9			3.7	3.2	3.30	3	4 1	8.2	8.3	825	835 865
7	.	.		.	.	.			8.9	8.9	890	905 920
8	5.0 4.9	B.		5.60	5.00	5.20	20	40 20	9.1	9.3	930	965 940?
9	6.3 6.2	6.2	625 10	665	640	643	18	22 03	9.9			
10	6.5 6.4	6.4	6.50 01	7.15	6.70	6.78	28	37 08				
11	7.3 7.2	7.2	725 10	775	725	742	17	33 17				
12	7.5 7.4	7.3	740 11	79	77	767	27	23 03				
13		7.9	790	865	815	823	33	42 08				
14		8.2	8.20 00	875	825	840	20	35 15				
15		8.8	8.6 8.70 11	900	870	880	10	20 10				
16		8.9	8.9 8.90 00	970	890	917	27	53 27				
17		8.9	8.7 8.80 11	975	905	920	40	55 15				
18		9.8	9.7 9.75 01	.	10.00	988	13	. 12				
19		7.	7. .	.	.	.						
20		7.	.	.	.	.						
21												

Copy MC 6116 on p. 203

+87°	12	4.7 4.6	B.		5.2	.			9.6	9.5	955 01	10.0?
+88°	2	5.1 5.0	5.1	510 00	570	49			9.9	9.9?	9.9? 990 00	.
	9	6.4 6.3	6.3	635 01	690	655			7.	9.6	.	.
	105	5.0 4.9	B.		605	540			9.8	9.7	975 01	.
8m from	+87°	15	5.3 5.2?	B.		5.25	.		9.8		99?	
Moo from	+88°	80	.	.		7.1	665		7.		.	
Moo from ?		86	.	.		6.8	6.40		7.		.	
		115	6.4 6.3	6.3	635 01	730	670		7.		.	

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Tuesday, January 12, 1915

MC Series 308 (part 2) Yellow

Scale W MC 61 16/20 Pole ~~R Andromeda~~ P. E.

	Sc. 1	Sc. 2	Sc. 1	Sc. 2
2r	B	B.	7.9 7.	8.1
3r		B		9.1
4r	50 49	B.		9.7
5r	57 56	56 56 10		
6r	68 67	68 50 1 69		
7r	75 74	75 00 75		
8r	80 79 7.	80 50 1 81		
9r		86 5 10 87 86		
10r		98 5 10 99 98		
11r		99 00 99		
12r				
4s	75 74	74 5 10 74		
5s	77 76	76 5 10 76 83 5		
6s	7	84 83		
7s				
8s		7.		
9s		7.		
10s				
a'		81 81		
a^2		93 94		
b		88 87		
c		95 96		
d		89 89		
e		92 93		
f		98 99		
g		99 99		
h		7. 7.		

Too near 5S

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1914phae.proj.1046M

Tuesday, January 12, 1915

Ync Series 308 Yellows

Scale W Ync 6 1/29 Pola Cassiop. Ref. Seq. P.C. Alt. corr +.12

	Sc.1		Sc.2	Cu	Magn	Sc.1	Sc.2	Cu	Magn
1	4.7 4.6		B.	3.15	7.85	7	9.8501 9.8 9	-1.84	8.01
2	5.7 5.6	5.65 10	5.6	2.72	8.37		7. 7.		
3	6.4 6.3	6.40 00	6.4	2.41	8.81				
4	6.3 6.3	6.20 11	6.1	2.48	8.68				
5	7.2 7.1	7.20 00	7.2	2.18	9.38				
6	7.8 7.7	7.80 00	7.8	2.10	9.90				
7			7.7 7.7	2.10	9.86				
8			7.9 7.9	2.08	9.98				
9			7.8 8.1	2.07	10.07				
10			8.8 8.7	2.00	10.75				
11			9.8 9.8	1.90 ~~2.00~~	11.75				
12			10.0 7	1.97	11.97				
13			7.						
14									
15									
16									
17									
18									
19									
20									

Remeas. by O. Mar. 1/17 6.3 Error of unit in prev. measure.

7.00 00 7.90 00 8.00 11 8.75 01 9.85 10

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1914phae.proj.1046M

Tuesday, January 12, 1915

M C Series 308 Yellow

Scale ~~M C~~ W M C 6119 M Cassiop. Var Seq. PC. Corr. corr +.12

	Sc.1		Sc.2	Cu	Magn	Sc.1		Sc.2	Cu	Magn
a	B.					7.3	7.30°°	7.3	~~2.46~~	
b	B.					7.		8.7	8.7 ~~2.00~~	6.82
c	B.							8.6	8.7 ~~2.00~~	6.77
c'	4.8 4.7		B.	3.10	7.90			9.8	9.7 ~~1.90~~	7.90
d	3.4 3.3		B.	3.76	7.16			8.9	9.0 ~~2.00~~	7.06
d'	6.3 6.2	6.30°°	6.3	2.46	8.76			8.8	~~2.00~~	6.92
d²	6.8 6.7	6.85°1	6.9	2.28	9.1 3/4					
e	5.3 5.2	5.20°1	5.1	2.92	8.12			9.9		8.05
f	5.8 5.7	5.85°1	5.9	2.63	8.48					
g	6.4 6.3	6.35°1	6.3	2.43	8.78					
g'	7.	8.4	~~7.8~~ 8.4	2.03	10.43					
g²	7.7 7.6	7.75°°	7.8	2.10	9.85					
g³	6.8 6.7	6.80°1	6.9	2.27	9.12					
k			7.3	2.16	10.46					
l			7.8	2.10	9.90					
l'			8.7	2.00	10.70					
m			8.3	2.04	10.34					
n			8.3	2.04	10.34					
n'			8.7 8.8	2.00	10.75					
o			8.7 8.7	2.00	10.70					
o'			8.8 8.9	2.00	10.85					
p			8.8 8.9	2.00	10.85					
p'			9.7 9.9	1.90	11.70					
q										
r										
s										
s'										
t										

8.25°° 8.70°° 8.85°1 8.85°° 9.80°1 8.70°° 8.65°1 9.75°1 8.95°°

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1914phae.proj.1046M

Tuesday, January 12, 1915

MC Series 308 Yellow

Scale W MC 6120 R Androm

	Sc.1	Sc.2	Ch	Magn	Sc.1	Sc.2	Ch	Magn
					P.E.			
1	2.6 2.5		B.		7.	8.7 8.70	2.00	10.70
2	6.9 6.7	6.75	6.7	2.29	9.04	7. 7.		
3	5.4 5.3	5.35	5.3	2.83	8.18	10.0 7.	1.88	11.88
4	7.0 6.9	7.00	7.2	2.23	9.23	7. 7.		
5	6.6 6.5	6.60	6.6	2.35	8.95	7.		
6			7.7	2.10	9.80			
7			8.1	2.05	10.15			
8			8.8	2.00	10.80			
9			8.8 8.85	2.00	10.85			
10			9.7 9.70	1.91	11.61			
11			9.8 9.75	1.90	11.65			
12			9.4 9.25	1.96	11.21			
13			10.0 10.00	1.88	11.88			
14			7. 7.					
15								
16								
17								
18								
19								
20								

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1914phae.proj.1046M

Tuesday, January 12, 1915

MC Series 308 Yellow

Scale W MC 6120 P Androm.

	Sc.1	Sc.2	Cm	Magn	Sc.1	Sc.2		
a	B.				7.2	7.25-01 7.3		
c					8.0	8.05-01 8.1		
e					8.7	9.0	-1.88	6.82
d	8.1 2.2				8.6	8.55-01 8.5	-1.88	6.67
f	3.9 4.0		B.	3.52	9.2	9.15-01 9.1	-1.88	7.27
g	4.6 4.7		B.	3.15	9.7	9.80-1 9.9	-1.85	7.95
k	5.2 5.4	5.25-2	5.1	2.90				
h	5.1 5.2	5.30-1	5.4	2.87				
l (wrong unit)	6.7 6.5	6.45-0	6.4	2.38				
n			6.9	2.27				
m			6.6	2.34				
p			7.5	2.13				
o			7.7	2.10				
i			8.7	2.00				
r			8.1	2.05				
q			7.8 7.75-01 7.7	2.10				
q'			9.2 7.200 9.2	1.96				
t	8.6 8.		8.7 8.57 8.3	2.01				
u			9.6 9.60 0 9.6	1.92				
w			7. 7.					
v			9.9 9.95-0 10.0	1.89				
z			7. 7.					
y			7.					
y'								
x								
β			—					

Too poor. See no 1 ref. eq

Sm. h.

Var 98

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1914phae.proj.1046M

Tuesday, January 12, 1915

YmC Series 308 : Yellow

Scale W YmC 6121 Pole This plate rejected P.C.

		Sc.1	Sc.2		Sc.1	Sc.2	
	5	B.			7.	8.4 8.3	8.35 01
	6	3.6 3.7	B.			9.0 9.1	9.05 01
	7	.	.			9.6 9.7	9.65 01
	8	5.7 5.8	5.4	5.60 22		7. 7.	.
(wrong mist)	9	6.6 6.7	6.6	6.65 10			
	10	7.1 7.2	7.1	7.15 01			
	11	7.7 7.8	7.7	7.75 01			
	12		7.9				
	13		8.6 8.7	8.65 01			
	14		8.8 8.7	8.75 01			
	15		9.0 9.0	9.00 00			
	16		9.7 9.7	9.70 00			
	17		9.7 9.8	9.75 10			
	18		7. 7.	.			
	19						
	20						
	21						
+87°	12	5.1 5.7	B.			10.0?	
+88°	2	5.6 5.7	5.7	5.70 00		7.	
	90	6.8 6.9	6.9	6.90 00			
	105	6.1 6.7	5.9	6.05 21			
+87°	15	5.3 5.4	5.1	5.25 21		9.9?	
Norfolk E. +88°	80	7.0 7.1	.				
" "	86	6.7 6.8	.				
	115	7.2 7.3	7.3	7.30 00			

Sept 188

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1914phae.proj.1046M

Tuesday, January 12, 1915

MC Series 308 Yellow

Scale W	MC 6121 Pos.		Yellow P.C.	
	Sc.1	Sc.2	Sc.1	Sc.2
			7.	8.7 8.5
2n	2.3	B,		9.3 9.7
3n	4.4	B,		7. 7.
4n	5.8	5.9		
5n	6.6	6.4		
6n	7.3	7.4		
7n	7.8	7.9		
8n		8.7 8.7		
9n		9.1 9.1		
10n		7. 7.		
11n				
12n				
4s		8.2 8.0		
5s		8.2 8.2		
6s		8.9 8.9		
Too ocean 5s 7s				
8s				
a'		8.7 8.7		
a²		9.9 9.9		
b		9.2 9.7		
c		7. 7.		
d		9.8 9.9		
Too large + hazy e				
f		7. 7.		
g				
h				

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Tuesday, January 12, 1915

mc Series 308 Yellows

Scale W mc 6122 ♈ Androm. Ref. Seq. PC

Corr. to Ref. Seq. 11

	Sc. 1		Sc. 2	Cu	Magn	Sc. 1	Sc. 2		
1	2.1 / 2.0						8.30 8.3	-1.86	6,44
2	4.4 / 4.3			3.30	7,70		9.75 01 9.8 9.7	-1.85	7,90
3	4.2 / 4.1		B	3.40	7,60	9.3	9.33 03 9.6 9.1	-1.88	7,45
4	4.0 / 3.9		B.	3.50	7,50		9.80 11 9.9 9.7	-1.84	7,96
5	6.8 / 6.7	6.95 01	67	2.30	9,05				
6	8.1 / 8.0	8.00 11	7.9	2.07	10,07				
7	7.8 / 7.7	7.75 01	7.7	2.10	9,85				
8			7.85 01 7.8 7.9	2.09	9,94				
9			9.65 01 9.6 9.7	1.91	11,56				
10			9.95 20 9.9 10.0	1.88	11,83				
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

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1914phae.proj.1046M

Tuesday, January 12, 1915

Inc Series 308 Yellow

Scale W | Inc 6122 | Androm | Var Seq | P.E. Ret. corr +.11

	Sc.1		Sc.2	Cu	Magn	Sc.1	Sc.2		
f	4.3			B. 3.36	7.66	H.	9.15-01		
	4.2						9.1	-1.89	7.26
a	4.0			B. 3.50	7.50		9.2000		
	3.9						9.2	-1.88	7.32
d	6.0	6.95-01	5.9	2.60	8.55	H.	H.		
	5.9								
p	6.8	6.85-01	6.9	2.27	9.12	H.	H.		
	6.7								
c	5.0			B. 3.02	8.02		9.9000		
	4.9						9.9	-1.83	8.07
e	6.6	6.60-00	6 *6.6	2.34	8.94	H.			
	6.5								
g	7.2	7.25-01	7.3	2.18	9.43				
	7.1								
h	7.7	7.70-00	7.7	2.10	9.80				
	7.6								
k			7.7	2.10	9.80				
l			8.3	2.03	10.33				
m			8.1	2.06	10.16				
n			8.6	2.00	10.60				
o			8.6	2.00	10.60				
q			9.15-01	9.1 1.96	11.11				
			9.2						
q'			8.7-00	8.7 2.00	10.70				
			8.7						
r			9.6	9.6 1.93	11.53				
t			9.9000	9.9 1.89	11.79				
			9.9						
s			9.9000	9.9 1.89	11.79				
			9.9						
u			H. H.						
w									
w'									
x									
y'									
x²									
z									

(Wrong unit)

Var. H.

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Tuesday, January 12, 1915

Mc Series 308 Yellow

Scale W Mc 6123. S Androm Rej. Seq. P.C. (Ext. corr +.12)

	Sc.1		Sc.2	In	Magn	Sc.1	Sc.2
1	6.3 / 6.2	6.30°°	6.3	2.45	8.75		7.
2	6.3 / 6.2	6.20''	6.1	2.48	8.68		7.
3	6.8 / 6.7	6.75°'±	6.7	2.30	9.05		
4	6.9 / 6.8	7.00°'±	7.1	2.23	9.23		
5 (wrong mint)	7.4 / 7.3	7.50'' ±	7.6	2.13	9.63		
6	6.8 / 6.7	6.85°'	6.9	2.27	9.12		
7	8.0 / 7.9	8.00°°	8.0	2.07	10.07		
8			7.9	2.08	9.98		
9			8.0	2.07	10.07		
10 Hazy		9.10°°	9.1	1.96	11.06		
11		9.75°'±	9.7	1.90	11.65		
12		8.90°°	8.9	1.89	10.79		
13		9.55°'±	9.7	1.93	11.48		
14			7.	7.			
15			7.				
16							
17							
18							
19							
20							

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1914phae.proj.1046M

Tuesday, January 12, 1915

Mc Series 308 Yellow

Scale W Mc 6123 S Androm Var. Seq. P.C. Act. corr +.12

	Sc 1	Sc 2	Lu	Magn	Sc 1	Sc 2	
Im. poor. 1		B			7.	8.9 8.8	−1.89 6,96
2	7.0 6.9	6.95^{01}	6.9	2.25	9,20	7. 7.	
3	6.8 6.7	6.75^{01}	6.7	2.30	9,05		
4	7.		8.6^{5-01} 8.7	2.00	10,65		
5			8.9^{000} 8.9	1.89	10,89		
6			9.9^{000} 9.9	1.90	10,80		
7			7. 7.				
8							
9							
10							
11							
12							
13							
14							
15							

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Tuesday, January 12, 1915 Copied BK 23:76

mc Series 308 Yellows

Scale W mc 6124 C1 Pc

@ Alt. corr +.09

	Sc.1	Sc.2	Cu	Magn	Sc.1	Sc.2		
1	2.8 2.7				7.	9.65 10 9.6	-1.87	7.78
2						9.75 01 9.7	-1.84	7.91
3	7.		B.		7.	8.45 01 8.4	-1.87	6.58
4						9.20 11 9.1	-1.88	7.32
5	5.8 5.7	5.95 21	6.1	2.59	8.54			
6	5.3 5.2		B.	2.87	8.17	9.90 00 9.9 ?	-1.83	8.07
7	4.0 3.9		B.	3.50	7.50	9.85 10 9.8	-1.84	8.01
7a	6.7 6.6	6.7000	6.7	2.31	9.01			
8	6.8 6.7	6.75 02	6.7	2.30	9.05			
9	6.5 6.4	6.45 10	6.4	2.40	8.85			
10								
11			7.7	2.10	9.80			
12			8.1	2.06	10.16			
13			~~8.2~~	1.99 ~~2.00~~	~~10.19~~ 10.18			
13a			8.45 01					
14			8.4 8.5	2.03	10.48			
15			8.9 8.9	8.90 00 1.99 ~~2.00~~	10.89			
16			8.9 8.7	8.80 11 2.00	10.80			
17			9.3 9.3	9.30 00 1.95	11.26			
18			9.5 9.7	9.60 11 1.93	11.53			
19			7. 7.					
20								
21								
22								
23								
24								

Remeas. by O. Apr. 27, 17.
6.7. Rej. Meas., probably 15 measured and recorded for 13. Certainly wrong.

Double?

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1914phac.0201.1046M

Tuesday, January 12, 1915 Cpied BK 23: p 46148

Ymc Series 308 Yellow

Scale W Ymc 6125 D. P.E Cor. cor -.12

		Sc.1	Sc.2	Cu	Magn	Sc.1	Sc.2	Cu	Magn
Too faint	1	.							
" "	2	.							
	3	3.6 3.5		3.67	7,27				
	4	4.4 4.3		3.30	7,90				
	5	3.9 3.8	B.	3.55	7,45				
Too faint	6	.	.						
Too faint	7	.	.						
	8	6.0 5.9	5.95 01	59	2.58	8,53			
	9	5.7 5.6	5.65 10	56	2.71	8,36			
	10	5.7 5.6	5.65 10	5.6	2.71	8,36			
	11	6.9 6.8	7.00 ±1	71	2.23	9,23			
	12	7.1 7.0	7.10 00	7.1	2.20	9,30			
	13	7.0 6.9	6.95 01	6.9	2.25	9,20			
	14	7.3 7.2	7.30 00	7.3	2.17	9,47			
	15	7.3 7.2	7.20 11	7.1	2.19	9,39			
	16	7.8 7.7	7.85 01	79	2.10	9,95			
	16a	7.7 7.6	7.65 10	7.6	2.10	9,75			
	17			8.3	2.04	10,34			
	18			8.8	2.00	10,80			
	19			8.80 00 8.8 8.8	2.00	10,80			
	20			8.85 01 8.9 8.9	2.00	10,85			
	21			8.50 11 8.6 8.4	2.02	10,52			
	22			8.90 00 8.9 8.9	1.99	10,89			
Hidden by crack	23	.	.						
	24			9.70 11 9.8 9.6	1.90	11,60			
	25			9.95 10 9.9 10.0	1.89	11,84			
	26								
	27								

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1914phae.proj.1046M

Tuesday, January 12, 1915

mc Series 308 (part 2) Yellow

Scale W mc 6126 B1 P.C. Alt. corr +.12

	Sc.1	Sc.2	Cu	Magn	Sc.1	Sc.2		
1	3.2 (3.3)		3.80	7,10	7.	9.10 00 9.1	-1.89	7,21
2	.					9.00-01 9.0	-1.89	7,16
3	.					8.55-10 8.6	-1.88	6,67
4	.					9.4	-1.88	7,53
5	4.9 (5.0)		3.02	8,82		7. 7.		
6	4.8 (4.9)		B1 3.06	9,96		9.9	-1.83	8,07
7	5.4 (5.5)	5.45 10	5.4 2.80	8,25		7.		
8	4.3		B. 3.36	7,66				
8a	6.2	6.15 01	6.1 2.50	8,65				
9	6.3	6.30 00	6.3 2.45	8,75				
10	.	.						
11			5.6 2.73	8,33				
12			6.7 2.31	9,01				
13			6.0 2.57	8,57				
14			6.5 2.36	8,86				
15			7.2 2.18	9,38				
16			8.0 2.06	10,06				
17			7.6 2.12	9,72				
18			8.6 2.01	10,61				
19			8.6 2.01	10,61				
20			8.6 8.5 (8.55-01) 2.01	10,56				
21			7.6 7.6 (7.60 00) 2.12	9,72				
22			9.0 9.0 (9.00 00) 1.98	10,98				
23			9.1 9.3 (9.20-1) 1.96	11,16				
24			8.7 9.2 (9.05-2) 1.98	11,03				
25		7.						
26								
26a		7.						
27								

Double

Imi hazy

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1914phae.proj.1046M

Tuesday January 12, 1915

Mc Series 308 (part 2) Yellow

Scale W Mc 6127 Pole 6116 p182 6116 p188 P.C.

	Sc.1	Sc.2					Sc.1	Sc.2			
5	B.						7.	8.6	8.7	8.65 01	8.25
6	3.1 (32)	B.	3.2	3.2	3.0	3.10 (mean 112)	3.8 8	9.2	9.2	9.20 00	8.85
7	.	.						9.2	9.6	9.40 22	9.20
8	4.9 (50)	5.0	5.00 00	4.8	5.0	4.93 (07 13 07)	3.10	7.	7.	.	9.85
9	6.2 (63)	6.5	6.40 11	6.20	6.25	6.28 (10 8 03)	2.46				
10	6.6 (67)	6.7	6.70 00	6.70	6.50	6.63 (07 07 13)	2.25				
11	7.1 (72)	7.3	7.25 01	7.20	7.25	7.23 (02 03 02)	2.13				
12		7.7	7.7	7.3	7.40	7.47 (23 17 07)	2.11				
13		8.1	8.2	8.15 10	7.9	7.9	7.98 (17 18 08)	2.10			
14		8.2	8.3	8.25 01	8.20	8.20	8.22 (03 03 02)	1.02			
15		8.7	8.7	8.70 00	8.75	8.70	8.72 (02 03 02)	1.92			
16		8.9	8.9	8.90 00	8.80	8.90	8.92 (02 03 02)	2.02			
17		9.0	9.1	9.05 01	8.90	8.80	8.92 (13 02 12)	2.12			
18		7.	10.0?	10.00 ∞	9.75	9.75	9.8 (7 8 18 08)	1.73			
19											
20											
21											
100 pos. E. +87°	12	.						7			
88°	2	4.8 (49)	B.								
	90	6.3 (64)	6.7	6.55 21							
	105	5.3 (54)	5.4	5.40 00				7.			
100 pos. E. 87°	15	.						7.			
88°	80	6.6 (67)	6.6	6.65 10							
	86	6.3 (64)	6.4	6.40 00							
	115	6.6 (66)	6.8	6.70 11							

Seq. 188

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1914phae.proj.1046M

Tuesday, January 12, 1915

MC Series 308 (Part 2) Yellows

Scale W MC 6127 Pole (cont)

	Sc.	Sc.2	6116 N183	6116 N189	mean			Sc.1	Sc.2
								PC	
2n	2.1 2.0	B.	.	.	.			8.4	8.7
3n	.	.	.	.	.			9.7	9.7?
4n	5.4 5.3	5.20 5.10	.	5.0	5.10	10	10	f.	f.
5n	6.2 6.1	6.20 6.20	5.80	5.65	5.86	32	08 23		
6n	6.8 6.7	685 6.9	6.95	6.85	6.88	03	07 03		
7n		7.65 01 7.6 7.7	7.70	7.50	7.62	03	08 12		
8n		8.20 00 8.20 8.20	8.10	8.05	8.12	08	02 07		
9n		8.75 01 8.8 8.7	8.65	8.65	8.68	07	03 03		
10n		9.9?	9.80	9.85	9.85	05	05 00		
11n		f.	9.90	9.90	9.90	.	00 00		
4s		7.6	7.65	7.46	7.57	03	08 12		
5s		7.7	7.60	7.65	7.65	05	05 00		
6s		8.6	8.40	8.35	8.45	15	05 10		
Too near 5s	7s	.	.	.	.				

a'	8.1	8.3
a²	9.7	9.8
b	8.9	8.7
c	9.9	f.
d	9.0	9.2
e	9.7	9.8
f	f.	

35m out
4:06

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Wednesday, January 20, 1915

Prvs. Maj.

2.20 Estimates of Brightness of Additional Comp. Stars

	mc 2838	mc 2920 1st	mc 2920 2nd	mc 3155	mc 3109	mc 3325	mc 3349	Mean Res.	Sum.
o – o'	3	3	4	4	4	3	2	o 3.3	0 0 1 1 1 0 1 0 0
o' – o²	3	3	3	3	3	3	3	o' 3.0	0 0 0 0 0 0 0 3.3
o² – p	2	1	1	1	2	3	1	o² 0.4	2 1 1 1 2 3 1 6.3
p – q	1	1	3	2	2	1	2	p 1.7	1 1 1 2 0 3 0 5.9
q – r	3	4	4	4	5	3	4	q 3.9	1 0 0 0 1 1 0 7.6
r – r'	2	1	1	1	0	1	3	r 0.7	1 0 2 0 1 2 2 11.5
r' – r²	2	2	4	3	3	2	3	r' 2.7	1 1 1 0 0 1 0 12.2
r² – r³	3	3	2	3	3	3	2	r² 2.7	0 0 1 0 0 0 1 14.9
r³ – s	0	1	3	2	3	3	2	r³ 1.7	2 3 1 0 1 1 0 17.6
s – t	3	3	4	3	3	2	1	s 2.7	0 0 1 0 0 1 2 19.3
t – u	5	5	5	6	6	5	5	t 5.3	0 0 0 1 1 0 0 22.0
u – u'	1	5	4	2	2	2	2	u 2.6	2 2 1 1 1 1 1 27.3
								u'	29.9

	ac 4843	ac 5985	ac 6277	ac 7247	Mean Res.	Sum.
o – o'	3	2	3	3	o 2.8	0 1 0 0 0.0
o' – o²	2	2	3	1	o' 2.0	0 0 1 1 2.8
o² – p	1	2	1	1	o² 0.2	1 2 1 1 4.8
p – q	1	2	2	2	p 1.2	2 1 1 1 4.6
q – r	5	3	4	3	q 3.8	1 1 0 1 5.8
r – r'	1	0	0	0	r 0.2	1 0 0 0 9.6
r' – r²	0	1	2	2	r' 1.2	1 0 1 1 9.8
r² – r³	3	3	3	3	r² 3.0	0 0 0 0 10.6
r³ – s	3	4	2	1	r³ 2.5	1 2 0 1 13.6
s – t	2	2	0	1	s 0.2	2 2 0 1 16.5
t – u	2	4	1	2	t 2.2	0 2 1 0 16.7
u – u'	u'7.	u'7.	u'7.	u'7.	u .	. . . . 18.9

3.40

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1914phae.proj.1046M

Friday, February 12, 1915

9.40 Plate for R S Tus. Maj.

Scale R Me 5476 S Tus. Maj.

	Sc.1	Sc.2	Diff	Curve	Magn	Sc.1	Sc.2	Diff	O-Mag	Curve	Mag
			Magn. O-Mag 105 — Mag. 2nd 6:206								
a	4.1 4.7					7.	9.7	9.9	9.80	-1.1 -220 -204	7.76
Comm. to S+T Tus. Maj. f	5.7						10.3	10.4	10.35	-1.0 -199 -217	8.18
" " " " c	5.5						10.8	10.8	10.80	00 -223 -224	8.56
" " " " d	5.7			294	8.94		11.1	11.1	11.10	00 -247 -231	8.79
" " " " e	3.8						10.4	10.4	10.40	00 -214 -218	8.22
* Bd.? f	6.0			3.04	2.86 9.34		12.3	12.2?	12.25	10 . -250	9.75
Comm. to S+T Tus. Maj. g	6.7			2.48	2.66 9.66		12.1	12.1	12.10	00 -237 -249	9.61
" " " " a2	6.7			2.48	2.66 9.66		12.1	12.1	12.10	00 -249 -249	9.61
g	3.7 5	B.		2.41	2.39 10.19		12.9			-294 -256	10.34
h	7.9	B.		2.34	2.25 10.45		13.0			-244 -258	10.42
k	8.9	9.1	9.15 0.1	2.17	1.97 11.12		14.0			-265 -263	11.37
l	8.4	8.4	8.50 2.1.1	.	2.15 10.65		13.7			. -262	11.08
m	7.	9.9		1.71	1.75 11.65		7.			. .	
n	7.	10.2		1.51	1.69 11.89						
o		10.9		1.54	1.61 12.51						
p		10.9		1.66	1.61 12.51						
p*		11.3	11.4 11.35 1.0	1.44	2.57 12.92						
q		11.8	11.7 11.75 0.1	1.64	1.56 13.31						
r		11.8	11.9 11.85 0.1	1.73	1.57 13.42						
s		12.7	12.5 12.60 1.1	1.37	1.63 14.23						
t		13.0	13.1 13.05 0.1	1.93	1.72 14.77						
u		7.	7. .	.	. .						
w											
x											
Var.		8.1	8.3 8.20 1.1	2.34			13.7				

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1914phae.proj.1046M

Friday, February 12, 1915

Plate for P 3 Trus. Maj.

Scale P mc 5476 P 3 Trus. Maj. Q2f +.20 PC

		Sc.1	Sc.2		(Curve for 3 Trus. Maj) Curve	Magn	Sc.1			Sc.2	(Curve for 7 Trus. Mag) Curve	Magn
Curve	Magn	50.					7.	Mean		10.7	10.7 1070 00	-2.22 8.48
2.04	7.76	a 4.7										
2.17	8.18	a 5.8			2.92	9.02	+2.94	9.04	9.03	11.3	11.2 1125 01	-2.34 8.91
2.24	8.56	β 6.1			2.84	9.24	+2.81	9.21	9.22	11.9	11.9 11.90 00	-2.47 9.43
2.31	8.79	β' 7.1	B.		2.51	9.91	2.46	9.86	9.88	12.4	12.4 1240 00	-2.52 9.88
2.18	8.27	c 8.1	8.1	8.25 2 1	2.23	10.48	2.23	10.48	10.48	13.8	13.9 1385 01	-2.62 11.23
2.50	9.75	d 7.7	B.	8.05 1 0	2.30	10.35	2.28	10.33	10.34	13.0		-2.49 10.51
2.49	9.61	e 8.0	8.1	8.20 1 1	2.24	10.44	2.24	10.44	10.44	13.4		-2.52 10.88
2.49	9.61	f 8.8	9.1	9.10 0 0	1.98	11.08	2.00	11.00	11.04	14.1?		-2.63 11.47?
2.56	10.34	g 8.8	8.8	8.95 1 2	2.02	10.97	2.04	10.99	10.98	14.0		-2.63 11.37
2.58	10.42	h 7.	9.9		1.76	11.66	1.78	11.68	11.67	7.		, ,
2.63	11.37	h' 7.	10.8	10.6 10.70 1 1	1.62	12.32	1.63	12.33	12.32		PC. Curve	Mean
2.62	11.08	h²	10.6	10.7 10.65 0 1	1.63	12.28	1.64	12.29	12.28	a	-2.58 8.52	8.50
		K	10.7		1.62	12.32	1.63	12.33	12.32	a'	-2.32 8.93	8.92
		l²	10.7		1.62	12.32	1.63	12.33	12.32	f	-2.44 9.46	9.44
		l	11.2		1.58	12.78	1.54	12.74	12.76	f'	-2.54 9.86	9.87
		m	11.3		1.57	12.87	1.53	12.83	12.85	c	-2.66 11.19	11.21
		n	11.5		1.56	13.06	1.50	13.00	13.03	d	-2.62 10.38	10.40
		o	11.9		1.57	13.47	1.45	13.35	13.41	e	-2.66 10.74	10.84
		o'	12.5		1.61	14.11	1.40	13.90	14.00	f	-2.65 11.45?	11.46?
		p	12.8		1.66	14.46	1.40	14.20	14.33	g	-2.66 11.34	11.36
		q	12.8 13.7	12.9 1285 01	1.68	14.52	1.40	14.25	14.38			
		r	12.9	12.9 13.2 1290 00	1.68	14.58	1.40	14.30	14.44			
		s	13.2	13.3 1325 01	1.79	15.04	1.42	14.67	14.86			
		t	13.7	13.7 1370 00	,		1.48	15.18	15.18			
		u	13.7	13.8 1375 10	,		1.49	15.24	15.24			
		w	13.9	13.8 1385 10	,		1.51	15.36	15.36			
		x	7.									
		var. 4	12.0		1.58	13.58	1.44	13.44				

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Friday, February 12, 1915

Plate for P S Tues Inj.

Scale R mc 5476 Tues Inj

	Sc.1	Sc.2	Diff. 06: 706-706: 208			Sc.1	Sc.2			
				Curve	magn				Curve	mag
a	4.0 3.7		.	.		9.2 8.9	9.2	9.20 00	-190	-179 7.4
Comments 8+7 wstng. g	5.2 4.9		.	.		7.	10.3	10.30 00	-194	-209 8.2
" " " " e	5.6 5.3		.	.			10.9	11.0 10.95 10	-233	-225 8.70
" " " " d	6.1 5.8		.	294	9.04		11.2	11.1 11.15 01	-242	-230 8.85
" " " " e	4.1 3.8		.	.	.		10.2	10.3 10.25 01	-189	-208 8.17
f	6.5 6.2		2.71	277	9.27		11.9		-240	-244 9.46
a	6.2 5.9		3.15	290	9.10		11.8		-230	-241 9.37
d	6.9 6.6		2.71	262	9.52		12.1		-238	-243 9.68
g	7.0 6.7		2.48	259	9.59		12.1		-249	-248 9.62
a	7.4 7.1	B.	2.21	246	9.86		12.9		-282	-261 10.2
h	8.8 8.5	B.	2.24	222	10.52		13.2		-266	-265 10.6
k	9.0 8.7	8.7	8.85 2.1	209	209 10.94		13.7		-275	-266 11.04
l	9.2 8.9	9.4	9.30 1.1	201	194 11.24		14.0		-253	-266 11.3
m	7.	9.9		161	179 11.69		7.	.	.	.
n	7.	10.4		182	168 12.08					
o	7.	10.9		178	160 12.50					
p		11.1		158	156 12.66					
q		11.3		149	153 12.79					
r		11.6		119	149 13.09					
s		11.9		161	145 13.35					
t		12.9	12.7 12.80 1.1	116	140 14.20					
u		12.4	12.3 12.35 01	148	141 13.76					
w		12.8	12.7 12.75 01	159	140 14.15					
x		12.9	14.0? 13.95 1.0	144	152 15.47?					
y		13.9	13.7 13.90 00	.	150 15.40					
Var.	6.7 5.9	B.		301	290 9.10		11.3			

11.13

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Curve	Magn
-.179	7.41
-.209	8.21
-.225	8.70
-.230	8.85
-.208	8.17
-.244	9.46
-.241	9.39
-.243	9.62
-.248	9.62
-.261	10.29
-.265	10.65
-.266	11.04
-.266	11.34
.	.

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Thursday June 10, 1915

γ Cassiopeiae

11.23 Estimates of Brightness of Additional Comp. Stars.

	mc 4240	mc 6038	mc 6240	mc 6243
o′ – q	1	1	0	0
q – r	2	2	1	1
r – r′	2	3	2	3
r′ – s′	2	1	2	2
s′ – s²	2	3	2	2
s² – s³	1	1	1	1
s³ – s	3	1	2	3
s – r	1	1	1	0

I 31198

o′ – q	2
q – r	2
r – r′	1
r′ – s′	2
s′ – s²	1
s² – s³	1
s³ – s	3
s – r	1

Des.	Mean	Res.	Sum
o′	00	11 00 2	00
q	16	00 1 1 0	00
r	22	0 1 0 1 1	16
r′	18	0 1 0 0 0	38
s′	20	0 1 0 0 1	56
s²	10	0 0 0 0 0	76
s³	24	1 1 0 1 1	86
s	06	0 · 0 1 0	110
r			116

1.4:

(1.06 = mt)

12.53

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Monday, February 28, 1916

S Cassiopeiae

215 Φ

Estimates of Brightness of additional Comp. stars.

	aC 3210	aC 2143	aC 3336	aC 3014	Mean	Red.		Sum.
f-e	4	5	5	5	48	1000	f	00
e-e'	2	2	3	3	25	0011	e	48
e'-d	1	1	0	2	05	1102	e'	73
d-h²	3	7	3	3	40	1311	d	78
h²-h³	0	1	2	2	12	1011	h²	118
h³-m	1	1	1	1	05	1111	h³	130
m-k	0	1	2	0	08	1011	m	135
k-h	2	2	3	4	28	1101	k	127
							h	155

	mc 8977	mc 9128	mc 9479	mc 9512				
r-s	2	4	2	2	25	0200	r	00
s-s'	3	4	3	3	32	0100	s	25
s'-s²	3	3	1	3	25	1111	s'	57
s²-s³	4	0	3	1	20	2211	s²	82
s³-u	5	3	2	1	28	2012	s³	102
u-x	3	6	3	2	35	1212	u	130
x-t	7	1	1	1	03 / 02	1111	x	165
							t	162

3.36

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Monday. March 13, 1916

R Camelopardalis.

4.55

Scale measures of additional Stars for Relative Magnitudes

Scale M.

	m Θ 2830 Sc. 2	m Θ 3063 Sc. 2
a′	7.6	7.7
b	7.9	7.9
c	8.0	7.9
c′	8.2	8.4
d	8.8	8.9
Im. sharp. e	9.3	9.7

	m Θ 8019 Sc. 2	m Θ. Sc. 2
a′	6.8	~~6.5~~ ~~6.5~~ ~~7.0~~
b	7.3	7.0
c	7.2	7.0
c′	7.6	7.2
d	7.9	7.9
e	8.5	8.6

	mean	Res.
a′	7.15	45, 55, 35, 65
b	7.52	38, 38, 22, 52
c	7.52	~~48~~ ~~22~~, 38, 32, 52
c′	7.85	35, 55, 25, ~~6~~ 45
d	8.38	42, 52, 48, 48
e	9.02	~~2~~ 8 68 52 42

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1914phae.proj.1046M

Monday, March 13, 1916

R Camelopardalis

Scale measures of additional Stars for Relative Magnitudes

Scale R	mc. 4828	mc 7915
	Sc. 2	Sc. 2
m	12.2	11.9
m'	12.5	12.6
n	11.9	11.9
o	13.0	13.0
p	13.4	13.3

	mc. 5356	mc 8148
	Sc. 2	Sc. 2
m	12.0	11.6
m'	12.3	12.0
n	11.9	11.3
o	12.8	12.5
p	13.1	12.9

	Mean	Res.
m	11.92	28 02 08 32
m'	12.35	15 25 05 35
5.29 n	11.75	15 15 15 45
o	12.82	18 18 02 32
p	13.~~42~~ 18	32 12 08 28

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