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M. E. O'Reilly.

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10:10 MC 8172 Carte 5 00-16.5 P.C. 47

Diffr Inv. Alt - 47

			pc.1	pc.2		Cw.	Magn	pc.2	pc.2	Cw.	Magn	pc.2	Cw
1	5	B				.		8.15 01 8.2	8.1	-.107	7.08	9.5	-.201 7.49
2	6	5.0 4.1				.		9.20 00 9.21	9.2	-.129	7.91	10.5	-.227 8.23
3	8	6.1 5.8				2.85	8.95	10.50 00 10.5	10.5	-.165	8.85	11.7	-.257 9.13
4	9	7.8 1.5				2.36	10.16	12.5	t.p.	-.206	10.44	def.	. .
5	10	8.0 1.1	B.			2.31	10.31	t.p.	t.p.	.	.	∫.	. .
6	11	8.5 8.2	8.4	8.45	10	2.21	10.66	t.p.		.	.		
7	12	8.6 8.3	8.5	8.55	01	2.20	10.75	t.p.		.	.		
8	13	9.1 8.8	8.8	8.95	12	2.11	11.06	t.p.		.	.		
9	14		9.1			1.95	11.65						
10	15		9.9			1.90	11.80						
11	16		10.4			1.79	12.19						
12	17		10.6			1.74	12.34						
13	18		10.8			1.70	12.50						
14	19		11.1			1.65	12.75						
15	20		11.45 01 11.4	11.5		1.62	13.07						
16	23		11.60 00 11.6	11.6		1.61	13.21						
17	25		12.40 00 12.4	12.4		1.66	14.06						
18	26		12.60 12.1	12.5		1.69	14.29						
19	27		12.9? very poor.	t.p.		1.75	14.65?						
20	28		∫	∫.		.	.						
	29												
	30												

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Plotted 230

Mc 8178 Pole -

	sc.1	sc.2	8177 fr 16				Diff.
5	4*						
6							
8							
9							Diff.
10	6.1 5.8		6.2	6.15	⊥	0	2.87
11	6.9 6.6		6.9	6.90	0	0	2.65
12	7.2 6.9		7.8	7.50	3	3	2.36
13	7.9 7.6	B.	8.0	7.95	⊥	0	2.35
14	8.4 8.1	8.4	8.40	0 0	8.55	8.48	08 07 2.17
15	8.8 8.5	8.9	8.86	0 1	9.15	9.00	15 15 2.08
16	9.2 8.9	9.3	9.25	0 1	9.5	9.38	13 12 2.02
17		9.4			9.6	9.50	⊥ 1 2.13
18		10.4			10.6	10.50	⊥ 1 1.56
19		10.5			10.8	10.65	⊥ 2 177
20		11.3			11.2	11.25	1 0 148
23		11.6			11.8	11.70	⊥ 1 164
25	12.35 0 ⊥ 12.4	12.3			12.5	12.42	07 08 145
26	12.55 ⊥ 0 12.5	12.6			12.6	12.58	03 02 175
27	12.90 0 0 12.9	12.9			12.9	12.90	00 00 179
28	13.50 ⊥ 1 13.4	13.6			13.5	13.50	00 00 161
29	13.60 ⊥ 1 13.5	from 13.7?			.	13.60?	a . 206
30	⊥.	⊥.			.	.	.

	sc.1	sc.2	sc.1	sc.2	8177 fr 16	Diff.
5	7.2 7.69		30 1 1	8 X	7.4 7.1	765 7.48 18 17 -099
6	7.9 7.96		95 1 1	8	8.0 8.1	8.4 8.18 23 22 -107
8					9.5 9.55 ⊥ 0	9.6 9.60 9.58 03 02 -135
9					10.4 10.40 0 0	10.4 10.6 10.50 10 10 -167
10					10.6 10.60 0 0	10.6 11.00 10.80 20 20 -178
11					11.2 11.35 0 1	11.3 1170 1148 23 22 -193
12					1 hour 11.90 2 2	12.1 12.05 11.98 08 07 -212
13					12.4 12.40 0 0	12.4 12.35 12.38 02 03 -208
14					12.6 12.65 0 1	12.7 12.50 12.58 07 08 -193
15					13.1 13.10 0 0	13.1 1335 1322 12 13 -214
16					13.6 13.55 0 1	13.5 . 1358 a . -218
17					t.p.	⊥. . . .
18					⊥	. . .

	sc.1	sc.2	8177 fr 16	Diff.
80	7.7		7.9	7.95 0 ⊥ -146
90	8.1		9.0	9.00 0 0 -189
	10.5		10.5	10.50 0 0 -227
	11.3		11.4	11.35 1 0 -252
	11.6		11.6	11.60 0 0 -258
	t.p.		12.2	12.20 a = -265
	12.5		12.5	12.50 0 0 -264
	t.p.		13.1	13.10 a = -280
	13.5		13.5	13.50 0 0 -285
	⊥. 7		.	. .
	⊥.		.	. .

See also fr. 16

* Iris. Comp. and faint stars are very poor for whole series.

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Mc8174 N3 5 00 – 150.

P.C Alt – 56

	sc.1	Cm.	Magn	sc.1	Cm.	Magn
1	B.	.		8.9 8.6	-1.84	7.06
2	B	.		.	.	.
3	B	.		.	.	.
4	B	.		9.1 8.8	-1.90	7.20
5	B	.		t.p.	.	.
6	B	.		.	.	.
7	B	.		t.p.	.	.
8	B.	.		10.3	-2.22	8.08
9	5.4 5.1	.		10.1	-2.32	8.38
10	5.8 5.5	.		t.p.	.	.
11	6.0 5.1	2.86	8.86	11.4?	-2.50	8.90?
12	5.9 5.6	2.90	8.80	t.p.	.	.
13	6.2 5.9	2.81	9.01	t.p.	.	.
14	7.7 7.4	2.40	10.10	13.1	-2.80	10.30
15	7.7 7.4 7.8	2.40	10.10	~~12.6~~? t.p.	.	.
16	7.9 7.6 7.9	2.34	10.24	t.p.	.	.
17	~~8.3~~ 7.6 w.s. B.	2.34	10.24	ℓ	.	.
18	8.7 8.4 8.6	8.65 1 0	2.16	10.81	ℓ	.
19	8.7 8.4 8.6	8.65 1 0	2.16	10.81	ℓ	.
20	9.0 8.7 8.9	8.85 2 1	2.13	10.98	w.s.	.
21	Scratched.					
22	10.65 0 1 10.6 10.7		1.73	12.38		
23	9.90 0 0 9.9 9.9		1.90	11.80		
24	10.45 0 1 10.4 10.5		1.77	12.22		
25	11.15 1 0 11.1 11.2		1.64	12.79		
26	11.30 1 1 11.2 11.4		1.63	12.93		

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Mc 8174 D3 Cont.

	RC 2	RC 2	Cu.	
27	11.7	11.6	11.65 10 1.61	13.26
28	11.5	11.6	11.55 10 1.61	13.16
29	12.5	12.4	now 12.45 10 1.67	14.12
30	t.fr.		.	.
31	t.fr.		.	.
32	t.fr.		.	.
33	t.fr.		.	.
c	10.8		1.71	12.51

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Mc 8174 D 3 cent - Diffr. Imm.

		g	h			
		sc.1	sc.2	sc.1	sc.2	Cm.	Magn
	1	8.1	8.20 2 1/2 80		9.7	-1.08	7.12
Edge	2	.				,	,
	3	.				,	,
	4	8.3	8.40 2 1/2 87		9.9	-1.12	7.28
	5	t.f.	t.f.			,	,
	6	.				,	,
	7	t.f.	t.f.			,	,
	8	sup.	sup.			,	,
	9	10.2	10.05 2 1		9.9	-1.50	8.55
	10	10.6	t.f.			-1.67	8.93
	11	10.5	sup.			-1.65	8.85
	12	10.6	10.60 0 0		10.6	-1.67	8.93
	13	11.2	11.20 0 0		11.2	-1.82	9.38
	14	12.4	12.25 2 1		12.1	-2.01	10.24
	15	12.2	12.35 2 1		12.5	-2.04	10.31
	16	t.f.			12.4	-2.05	10.35
	17	t.f.	t.f.			,	,
	18	t.f.	t.f.			,	,
	19	13.1				-2.12	10.98
	20	↓				,	,
	21						
	22						
	23						
	24						
	25						
	26						

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MC817 #5 Praecepe. Alt. cor. +.19

		sc.1	sc.2		P.C. sc.1	P.C. sc.2	Cw.	Magn	Cw	Magn
+21°	1909	B			90 8.1		-1.74	7.76	-1.88	7.12
+18	2027	B			66 edge 63		.	.	.	.
+21	1895	B.			60 5.1		.	.	.	.
+20	2109	B			85 8.21		-1.13	7.37	-1.70	6.80
+19	2027	B				10.2	-1.57	8.63	-2.20	8.00
+20	2133	B				10.5	-1.65	8.85	-2.28	8.22
+20	2152	B			88 8.5		-1.19	7.61	-1.80	7.00
+20	2153	B				9.3	-1.31	7.99	-1.95	7.35
+20	2158	B.			88 8.5		-1.19	7.61	-1.80	7.00
+20	2159	B			79 7.6		-1.01	6.89	-1.48	6.42
+20	2185	B				9.5	-1.36	8.14	-2.01	7.49
+20	2150	B.				9.2	-1.29	7.91	-1.93	7.27

Diffr. Images.

		g sc.1	g sc.2		sch sc.1	sch sc.2	Cw.	Magn
+21°	1909	75 7.2 ~~8.1~~ w.s.	7.55 L 0		7.6 7.3		-.098	6.57
+18	2027	B.			t.f.		.	.
+21	1895	B.			B		.	.
+20	2109	68 6.5			t.f.		.	.
+19	2027	80 7.1			B.		-1.04	6.96
+20	2133	9.5	9.55 1 0		9.6		-1.38	8.17
"	2152	86 8.3			nearly sup.		-1.15	7.45
"	2153	nearly sup.			86 8.3		-1.15	7.45
"	2158	82 7.9 faint	80.5 2 1		79 7.6		-1.04	7.01
"	2159	7.4 7.1	7.40 0 0		7.4 7.1		-0.96	6.44
"	2185	87 8.4	1		t.f.		-1.17	7.53
"	2150	78 7.5			t.f.		-1.00	6.80

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MC 8175 : Praesepe cont 8 34 + 202 Alt. corr. +.19

						Diff.								
		sc.1	sc.2			g sc.1	sc.2	h sc.1	sc.2	Cw.	Magn	PC.	Cw.	Magn
a						71 6.8	13			.		sc.1 sc.2 7.5	-.146	6.34
b	B					76 9.3	7.3	7.60	0 0	-.099	6.61	8.1 9.8	-.154	6.56
c	B					7.8 9.5	7.5	7.80	0 0	-.100	6.80	8.4 8.1	-.167	6.73
d	B					7.8 9.5	7.7 9.4	7.75	0 1	-.100	6.75	8.5 8.2	-.170	6.80
e	B					8.1 9.8	t.p.			-.106	7.04	9.1 8.8	-.190	7.20
f	B					8.8 8.5	8.8 8.5	8.80	0 0	-.120	7.60	9.4	-.199	7.41
g	B					8.6 8.3	8.5 8.2	8.55	0 1	-.114	7.41	9.2 8.9	9.3 9.25 0 1 -.194	7.31
k	~~B~~									.	.		.	.
h'	~~B~~ B					7.9 7.6	t.p.			-.102	6.88	9.2 8.9	9.3 9.25 0 1 -.194	7.31
h^2	B					8.9 8.6	8.7 8.6	8.90	0 0	-.121	7.69	9.5	-2.01	7.49
h^3	B					9.3 sc.2 ~~8.8~~ w.s.	t.p.			-.131	7.99	10.4	-2.26	8.14
h^4	B					9.5	9.6	9.55	1 0	-.138	8.17	10.1	-2.32	8.38
h^5	B					10.4	10.7	10.55	2 1	-.166	8.89	11.1	-2.42	8.68
f_0'	6.7 6.4			2.70	9.40	10.1	10.9	10.80	1 1	-.173	9.07	11.6	-2.54	9.06
f_0^2	6.9 6.6			2.63	9.53	11.3	11.2	11.25	1 0	-.181	9.44	12.3	-2.68	9.62
f_0^3	6.7 6.4			2.70	9.40	10.8	10.9	10.85	0 1	-.174	9.11	11.9	-2.60	9.30
l	7.0 6.7					t.p.	11.6	11.6 - a/2		-1.90	9.70	12.3	-2.68	9.62
m	7.2 6.9			2.59	9.59	11.7	12.1	11.90	2 2	-.196	9.94	12.4	-2.69	9.71
	7.2			2.54	9.74									
m'	6.9			2.54	9.74	11.6	11.6	11.60	0 0	-.190	9.70	12.4	-2.69	9.71
m^2	7.8 7.5			2.35	10.15	11.9 ~~11.8~~	11.8 ~~11.8~~	11.85	1 0	-.196	9.89	12.6	-2.72	9.88
o	7.7 7.4			2.39	10.09	t.p.	12.1			-.199	10.11	12.5	-2.70	9.80
p	7.2 6.9			2.54	9.74	11.6	11.7	11.65	0 1	-.191	9.74	12.3	-2.68	9.62
q	7.7 7.4	B.		2.39	10.09	12.1	12.3	12.15	1 0	-.200	10.15	12.3	-2.68	9.62
r	7.9 7.6	7.6	7.75 1 2	2.37	10.13	12.4	12.4	12.40	0 0	-.204	10.36	13.2	-2.82	10.38
s	9.0 8.7	8.7	8.85 2 1	2.12	10.97	12.6	12.7	12.65	0 1	-.209	10.56	13.7	-2.89	10.81
t		9.4		2.00	11.40	t.p.	13.3			-.214	11.16	n.c.	.	.
u		9.5		1.99	11.49	13.5	13.4	13.45	1 0	-.218	11.27	n.c.	.	.

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		sc.1	sc.2	sc.2	Cw.	Magn.	g sc.2	h sc.2	Cw.		B.C. sc.2	Cw.	Magn.
34	w	9.2 8.9	9.4	9.30 1 1	2.03	11.33	t.f.	13.1	-2.12	10.98	~~7.8~~		
56	x	B	~~9.8~~				9.2 sc.1 8.9	9.0 sc.1 8.8	9.15 0 1	-1.28	7.87	9.8 -2.10	7.70
73	y	B	B				7.7 7.4	7.7 7.4	7.70 0 0	-0.99	6.71	8.5 sc.1 8.3 -1.74	6.86
80	z		10.15 0 1 10.2	10.1	1.84	11.99	t.	t.	.	.		.	.
20	α		10.80 0 0 10.8	10.8	1.70	12.50							
41	β		11.40 1 1 11.5	11.3	1.62	13.02							
31	γ		11.60 0 0 11.6	11.6	1.61	13.21							
.	δ		11.85 1 0 11.9	11.8	1.61	13.46							
31	(Im. peculiar) ε		t.f.	.	.	.							
49	ζ		12.35 0 1 12.4	12.3	1.65	14.00							
14	η		12.80 0 0 12.8	12.8	1.73	14.53							
38	θ		t.f.	t.f.	.	.							
68	λ		t.f.		.	.							
06	μ		n.s.		.	.							
62	ν		n.s.		.	.							
30													
62													
71													
71													
88													
80													
62													
62													
038													
81													

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MC 8175 8 Cancri. alt. corr. +.19

	sc.1	sc.2	Cm.	Magn	sc.1	sc.1		Cm.	Magn	P.C. sc.2	Cm.	
					86	87						
a'	B				83	84	865 01	-.117	7.48	9.87	-2.06	7.64
					7.4	7.4						
a'	B				7.1	7.1	740 00	-.099	6.41	8.5	-.170	6.80
					86	87						
b	B				83	84	865 01	-.117	7.48	96	-2.04	7.56
					85	86						
c	B				~~7.4~~	~~8.5~~ 89	885 01	-.120	7.65	10.1	-.218	7.92
c'	B				7.4	8.6		-.122	7.68	10.3	-2.23	8.07
d	B				7.4	sc.2 9.2		-.130	7.90	10.6	-2.30	8.30
	6.7				10.95	2.1				11.9		
e	6.4		2.69	9.39	10.8	11.1		-.177	9.18	~~12.3~~	-2.60	9.30
e'	6.8 6.5		2.65	9.45	7.4	11.4		-.187	9.53	~~11.9~~ 12.1	-2.64	9.46
	6.7											
f	6.4		2.69	9.39	7.4	11.4		-.187	9.53	12.2	-.266	9.54
	7.8				12.15	1.0						
f'	7.5		2.36	10.16	12.1	12.2		-.200	10.13	13.2	-.282	10.38
	7.7											
g	7.4	B.	2.39	10.09	7.4	7.4		.	.	12.9	-.278	10.12
	8.6											
h	8.3	8.6 8.60 00	2.19	10.79	7.4	7.4		.	.	I	.	.
	9.1											
l	8.8	9.2 9.15 1.0	2.07	11.22	7.4	Dup.		.	.	n.s.	.	.
m		9.5 9.5 9.50 00	1.99	11.49								
n		10.3 10.3 10.30 00	1.80	12.10								
					8.9							
Var.	B.				8.6	8.8	885 10	-.120	7.65	10.2		

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Ref Seq. centre.		sc.1	sc.2	Cm.		sc.2	sc.2			sc.2	Cm.	Magn
	1	B		.		9.1	9.2	9.15 L0	-1.28	7.87	10.3	-2.23 8.07
	2	B		.		10.3	10.3	103000	-1.59	8.71	11.1	-2.42 8.68
	3	B		.		10.9	11.1	11.00 L1	-1.79	9.21	t.f.	. .
	4	7.9 / 8.6	B.	2.35	10.25	12.2	12.4	12.30 L1	-2.03	10.27	t.f.	. .
	5	8.3 / 8.6	8.5	8.65 01	2.17	10.82	t.f.	t.f.	.	.	t.f.	. .
	6	8.3 / 8.6	8.5	8.55 01	2.20	10.75	t.f.	t.f.	.	.		
	7	8.8 / 9.1	9.2	9.15 L0	2.07	11.22						
	8		9.6		1.97	11.57						
	9		10.1		1.85	11.95						
	10		10.3		1.80	12.10						
	11		10.6		1.74	12.34						
	12		10.6		1.74	12.34						
	13		10.8	11.00 22 11.2	1.66	12.66						
	14		11.3	11.40 L1 11.5	1.62	13.02						
	15		11.3	11.40 L1 11.5	1.62	13.02						
	16		11.6	11.75 21 11.9	1.61	13.36						
	17		12.2	12.20 00 12.2	1.64	13.84						
	18		def?	def.	.	.						
	19		12.6	12.65 01 12.7	1.70	14.35						
	20		13.4	13.40 00 13.4	1.88	15.28						

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1915phae.proj.10710

Monday November 22, 1915.

Scale R. Series 477.

MC 81767 Pola.

	sc.1	sc.2		Diff. Inv. sc.1 g	sc.2 g		Pc. sc.1
				77	76		79
5				7.4	7.3	765 10	7.6
6				84 8.1	t.p.		90 8.1
8				sc.2 9.6	9.6	9.60 00	sc.2 10.5
9				10.6	t.p.		11.4
10	62 5.9			11.1	10.9	11.00 1	11.6
11	69 6.6			11.7	11.7	11.70 00	12.2
12	7.5			11.9	12.2	12.05 L2	12.5
13	80 7.1			12.3	12.4	12.35 L0	13.1
14	86 8.3	8.5	8.55 0 1	12.6	12.4	12.50 1	13.5
15	97 8.9	9.1	9.15 0 1	13.4	13.3	13.35 01	t.
16		9.5		t.p.	t.p.		
17		9.6					
18		10.6					
19		10.8					
20		11.2					
23		11.8					
25		12.5					
26		12.6					
28		12.9					
28		13.5					
29		t.p.					
30		n.s					

Perf 4

2.35

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1915phae.proj.10710

Tuesday, November 23, 1915

Scale R — Series 595

1 — mc9 13 21 — Pole-

	mc9 13 21 sc.1	sc.2			*mc9 13 7- sc.1	sc.2			P.C. sc.1	sc.2	P.C. 9137- sc.1	sc.2
5									8.2 7.9	8.85 6 7	9.5	
6									9.7	10.05 3 4	10.4	
8									11.3		t.p.	
9									12.21		t.p.	
10	6.7 6.4				8.1 7.8	B	735	7 7	12.4		t.p.	
11	7.7 7.4	B.			8.5 8.21	8.3	840 1 1	805 35 35	13.4		t.p.	
12	8.2 7.9	8.21	8.20	0 0	9.2 8.9	9.1	9150 1	868 47 47	13.7?	poor	t.p.	
13	8.8 8.5	8.8	8.80	0 0		9.6	9206	0 60 60	n.s.		n.s.	
14	9.7 8.9	9.2	9.20	0 0		10.4	980	60 60	n.s.		n.s.	
15	10.0					10.6	1030	3 3				
16	10.5					11.1	1080	3 3				
17	10.6	10.6	1060	0 0		11.3	1095	35 35				
18	11.4	11.3	1135	0 1		11.7	1152	17 18				
19	11.5	11.7	1160	1 1		12.2	1190	30 30				
20	12.2	12.3	1225	0 1		~~12.2~~ t.p.	1225	a "				
23	12.8	12.8	1280	0 0		12.7	1275	05 05				
25	13.5	13.4	1345	1 0		t.p.	1345	a "				
26	t.p.	t.p.	"			t.p.	"	"				
27	n.s.	n.s.	"			n.s.	"	"				
28												
29												
30												
31												

Delay plotting to H.S.L. Nov 29, 1915

* fogged

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Tuesday November 23, 1915.

Scale R

Series 535.

mc9132 Pole. Diffr. Images.

mc9137-

	g sc.1	g sc.2	h sc.1	h sc.2	g sc.1	g sc.2	h sc.1	h sc.2
5	84 8.1	850 1.1	8.6 8.9		t.p.	9.3		
6	90 8.7	920 2.2		9.4	t.p.	t.p.		
8	11.1	1100 1.1		10.9	t.p.	t.p.		
9	11.7	1170 0.0		11.7	t.p.	t.p.		
10	12.2	1215 0.1		12.1	t.p.	def.		
11	12.9	1280 1.1		12.7	t.p.	t.p.		
12	13.1	1315 1.0		13.2	t.p.	t.p.		
13	13.6	1370 1.1		13.8	t.p.	t.p.		
14	t.p.		t.p.		t.p.	t.p.		
15			m.s.					
16								
17								
18								
19								
20								
22								
25								

2.45

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Tuesday November 23, 1915

Scale R Series 535 -

Mc 9133 Carte 3h – 16.5

	sc.1	sc.2		Diffr. Inn. sc.1	Diffr. Inn. sc.2	P.C. sc.
1	B.			10.4 t.p.		10.6
2	6.9 (7.7)	B.		12.3	12.4	t.p.
3	8.1 (8.4)	8.3	8.35 0 1	t.p.	t.p.	t.p.
4	8.1 (9.0)	8.9	8.95 0 1	t.p.	t.p.	t.
5		9.6		t.p.	t.p.	
6		9.6		n.s.	n.s.	
7		10.6				
8		10.1				
9		11.1				
10		11.2				
11		11.3				
			11.75 0 1			
12		11.8	11.7			
			11.80 0 0			
13		11.8	11.8			
			12.15 0 1			
14		12.2	12.1			
			12.35 0 1			
15		12.4	12.3			
			12.75 0 1			
16		12.8	12.7			
			12.90 0 0			
17		12.9	12.9			
			13.40 0 0			
18		13.4	13.4			
19		t.p.	t.p.			
20		t.				

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Tuesday November 23, 1915.

Scale R Series 535

Mc9134 D2 Alt -18

					P.C.	
		sc.1	sc.2		sc.1	sc.2
1	B				10.5	
2	B				t.p.	
3	B				10.4 ° edge.	
4	5.8 5.5				11.4	
5	5.8 5.5				11.3	
6	6.4 6.1				def.	
7	6.7 6.4				12.5	
8	6.6 6.3				t.p.	
9	7.2 6.9				t.p.	
edge 10	t.p.				t.p.	
11	8.1 7.8	B			t.p.	
12	7.7 7.6	8.1	8.00	1 1	?	
13	8.4 8.1	8.4	8.40	o o		
14	8.8 8.5	8.8	8.80	o o		
15		9.6				
16		9.6				
17		10.2				
17a		10.6				
18		10.6				
19		11.1				
20		11.1				
21		11.7				
22		12.2 12.2	12.20	o o		
23		12.4 12.4	12.40	o o		
24		12.7 12.7	12.70	o o		
25		12.9 12.9	12.90	o o		
26		t.p. 13.3?				

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Tuesday November 23, 1915

Scale Series 535.

Mc9134 court D2.

	sc.	sc.2	
21	~~12.9~~ 13.5	13.4 5?	13.50.00
28	13.4	13.4?	13.40?.00
29	t.p.		
30	t.p.		
31	n.s.		
32			
33			
34			
35			

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Scale R-

Series 535

	Mc 9134		D 2	Diffr. Inn.
	g	h		
	sc.1 sc.2	sc.1 sc.2		
1	9.5	t.p.		
2	10.4	t.p.		
3	t.p.	t.p.		
4	10.1	t.p.		
5	t.p.	t.p.		
6	t.p.	t.p.		
7	11.7 11.65 10	11.6		
8	t.p.	t.p.		
9	12.2 12.200 0	12.2		
10	t.p.	t.p.		
11	12.8 12.70 1 1	12.6		
12	12.8	t.p.		
13	13.4	t.p.		
14	t.p.	t.p.		
15	1	~~f t.p.~~		
16				
17				
18				
19				
20				
21				
22				
23				
24				

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Tuesday November 23, 1915.

Serie Series 535.

MC 9135 Carte $3^h - 2.5°$

	sc.1	sc.2		Diffr. Inn. sc.2	sc.2	B.C. sc.2
1	B	B.		11.65 1 0 11.7	11.6	t.p.
2	7.9 7.6	8.0	7.95 L 0	13.25 0 1 13.2	13.3	13.4
3	8.6 8.3	8.4	8.50 1 1	t.p.	t.p.	13.9
4	9.6			I	I.	
5	10.2					
6	10.9					
7	11.9					
8	12.45 1 0 12.5	12.4				
9	12.55 L 0 12.5	12.6				
10	3 13.20 0 0 13.2	13.2				
11	13.60 L 1 13.5	13.7				
12	13.80 0 0 13.8	13.8				
13	13.90 0 0 13.9	13.9				
14	I	I				
15	n.s.	n.s.				
16						
17						
18						
19						
20						

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Tuesday November 23, 1915

Scale R

Series 535 –

	Mc 9136		C2	3 00+15.0	Alt +17
				S.C.	
	sc.1	sc.2		sc.1	sc.2
1	13			9.6	
2	13			9.7	
3	13			10.4	
4	13			10.8	
5	13			t.p.	
6	13			t.p.	
7	6.7 6.4			t.p.	
8	7.4 7.1			12.3	
9	7.5 7.2			t.p.	
10	7.7 7.4			t.p.	
11	8.2 7.9	B.		t.p.	
12	8.5 8.2	8.2	8.35 1 2	t.p.	
12a	9.1 8.8	9.3	9.20 1 1	t	
13	8.8 8.5	8.9	8.85 0 1		
14		9.6			
15		9.9			
16		10.1			
17		10.2			
18		10.5			
19		10.7			
20		11.2			
21		11.2			
22		11.6	11.55 0 1 11.5		
23		12.2	12.05 2 1 11.9		
24		12.3	12.20 1 1 12.1		
25		12.4	12.30 1 1 12.2		

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1915phae.proj.10710

Tuesday November 23, 1915

Scale R Series 535

Mc9136 C2 h 3 00 +15.0

	SC.2	SC.2
	12.80	0 0
26	12.8	12.8
	13.25	0 1
27	13.2	13.3
28	def?	def?
	13.45	0 1
29	13.4	13.5
	14.00	0 0
30	14.0	14.0
31	n.s.	n.s

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Tuesday November 23, 1915

Scale R- Series 535-

Mc 9136 C 2 Diff. Inn.

	g		h	
	sc.1	sc.2	sc.1	sc.2
1	t.p.		t.p.	
2	t.p.		t.p.	
3	9.6	9.75 2 1	9.9	
4	10.6	10.75 2 1	10.9	
5	10.5		t.p.	
6	11.4	11.40 0 0	11.4	
7	11.7	11.65 1 0	11.6	
8	t.p.		t.p.	
9	12.2		t.p.	
10	12.2		t.p.	
11	12.6	12.65 0 1	12.7	
12	t.p.		t.p.	
12a	t.p.		t.p.	
13	t.p.		t.p.	
14	t.p.		~~t.p.~~	
15	t.p.		14.0?	

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Wednesday November 24, 1915 -

Scale R

Series 551 -

10:45

	Mc 9308			Pole. Mc 9313			P.C.			D.C.		Diff.
	pc.1	pc.2		pc.1	pc.2		pc.1	pc.2		pc.1	pc.2	
5							8.1 7.8	8.25 1 2		8.4 8.1		8.32 07 08 - 183
6							9.2 8.9	9.10 1 1		9.0 8.7		9.05 05 05 - 194
8								10.6 10.75 2 1		10.9		10.82 07 08 - 259
9								11.6		t.p.		11.60 a - 277
10	6.4 6.1			6.2 5.9			6.30 1 1	2.72	t.p.	t.p.		, ,
11	7.0 6.7			7.2 6.9			7.10 1 1	2.45	12.1 12.40 3 3	12.7		- 285
12	7.6 7.3	B		7.7 7.4	B.		7.65 0 1	2.21	t.p.	13.1		- 324
13	8.2 7.9	8.2	8.20 0 0	8.2 7.9	8.1	8.15 0 1	8.18 02 03	2.12	13.9	t.p.		- 360
14	8.9 8.6	8.1	8.80 1 1	8.8 8.5	8.6	8.70 1 1	8.75 05 05	1.90	n.s.	t.p.		,
15	9.1 8.8	9.3	9.20 1 1	9.2 8.9	9.4	9.30 1 1	9.25 05 05	1.83				
16		9.5			9.5		9.50 0 0	1.90				
17		10.2			10.2		10.20 0 0	1.43				
18		10.5			10.7		10.60 1 1	1.46				
19	11.00 1 1	11.1	10.9		11.1		11.05 0 1	1.37				
20	11.55 1 0	11.5	11.6		11.7	11.5	11.60 1 1	1.58	03 02	1.15		
23	12.25 1 0	12.3	12.2		12.4	12.5	12.48 0 1	12.35	10 10	0.99		
25	13.00 1 1	12.9	13.1		13.0	12.9	12.95 0 1	12.98	02 03	0.89		
26	13.55 1 0	13.5	13.6		13.3	13.4	13.35 1 0	13.45	10 10	0.88		
27	13.45 1 0	13.5	13.6		13.7	13.9	13.80 1 1	13.72	07 08	0.97		
28		↓	↓		t.p.	t.p.	,	,	,			
29		n.s.			n.s.	,	,	,				
30												

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1915phae.proj.10710

Wednesday November 24, 1915 -

Scale 12

Series 551 -

	Mo 9308 g sc.1 sc.2	Mo 9308 h sc.1 sc.2	Pole.	Diff. Im. 9313. g sc.1 sc.2	Diff. Im. 9313. h sc.1 sc.2		Diff
5	t.p. 8.6	t.p. 8.8		7.9 7.6 8.6	t.p. 8.8		-1.41
6	8.3 8.70 1 1	8.5		8.3 8.70 1 1	8.5	8.70 00 00	-1.59
8	10.3 10.35 1 0	10.4		10.3 10.35 1 1	10.4	10.35 00 00	-2.12
9	11.1 11.10 0 0	11.1		11.1 11.15 1 0	11.2	11.12 02 03	-2.29
10	11.5 11.45 1 0	11.4 hor		11.6 11.65 0 1	11.7	11.55 10 10	-2.53
11	12.2 12.15 0 1	12.1		12.3 12.30 0 0	12.3	12.22 07 08	-2.67
12	12.3 12.40 1 1	12.5		t.p.	12.5	12.45 05 05	-2.59
13	13.2 13.30 1 1	13.4		t.p.	13.4	13.35 05 05	-3.05
14	13.7 13.80 1 1	13.9? v.f.		t.p.	13.6	13.70 10 10	-3.05
15	f.	f.		t.p.	* 13.8		-2.72
16	n.s.	n.s.		n.s.	f.		
17							
18							
19							
20							
23							
25							
26							
27							

12.15

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Wednesday November 24, 1915.

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Scale?

Series 551.

Me 9309 Carte 2h -10.0 Alt -07

	Sc.1	Sc.2	Cw.	Magn	Diffr. Im. t.p.	P.C. t.p.
1	6.1		2.69	9.09		
2	6.6		2.53	9.43		
3	6.7		2.49	9.49		
4	7.8?		2.14	10.24		
5		9.4 poor	1.78	11.18		
6		9.6 poor	1.72	11.32		
7		t.p.	.	.		
8		10.1?	1.59	11 ×2.69?		
9		t.p.	.	.		
10		t.p.	.	.		
11		t.p.	.	.		
12		t.p.	.	.		
13		t.p.	.	.		
14		t.p.	.	.		
15						
16						
17						
18						
19						
20						

Images on plate are very poor, especially ft stars, P.C. + diffr. Im.

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Thu Wednesday November 24, 1915

Scale R Series 551- Card.

mc9310 Eros C.S. 1 58 +38.0 Alt. Corr. +.22

P.C.

						g	h			
	Rc.1	Rc.2		Cw.		Rc.1	Rc.2			Rc.2
1	B.			.		t.p.	t.p.			t.p.
2	62 5.9			275	895	t.p.	t.p.			t.p.
3	67 6.4			2.68 0	9.88 30	t.p.	t.p.			t.p.
4	70 6.9			2.89 4	9.89 4	t.p.	t.p.			t.p.
5	77 7.4			2.85 26	9.96	t.p.	t.p.			t.p.
6	77 7.4	B.		2.26	9.96	t.p.	134'	-2.91	10.49	t.p.
7	84 8.1	8.5	8.45 01	2.02	10.47	t.p.	13.7	-2.93	10.77	
8	89 8.6	8.8	885 10	1.92	10.77					n.s.
9	90 8.7	9.0	900 00	1.88	10.88					
10		9.3		1.80	11.10					
11		10.5		1.45	11.95					
12		10.9		1.35	12.25					
13		10.6		1.41	12.01					
14		t.p. ~~11.6~~ tt		.	.					
15		11.4	11.5 1145 01	1.23	12.67					
16		t.p.	12.1	1.08	13.18					
17		12.5	12.6 12.55 1 0	1.00	13.55					
18		12.5	12.6 12.55 1 0	1.00	13.55					
19		13.2	13.4 13.30 1 1	0.94	14.24					
20		F.	I.	.	.					

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1915phae.proj.10710

Wednesday November 24. 1915.

Card.

Leslie R. — Series 551 —

2	Mc 93 11.		Eros c.s.		2 12 + 37.5				Alt. Cor. +.22		
					D.C. Diffdm				D.C.		
	sc.1	sc.2	Cm.	Magn	sc.2	sc.2	Cm.	Magn	sc.2		
1	B.		.	.	t.p.	11.6 (poor)	− 2.50	9.10	t.p.		
2	5.1 (60)		.	.	t.p.	t.p.	.	.	t.p.		
3	6.3 (66)		2.62	9.22	t.p.	t.p.	.	.	t.p.		
4	7.4 (77)		2.26	9.96	t.p.	t.p.	.	.	t.p.		
5	7.5 (78)	B.	2.23	10.03	t.p.	13.1	− 2.86	10.24	13.7	− 3.50	10.20
6	8.5 (88)	9.1	8.95 2 1	1.90	10.85	t.p.	t.p.	.	.	f.	
7	8.9 (92)	9.4	9.30 1 1	1.81	11.11						
8		9.6		1.72	11.32						
9		9.9		1.64	11.54						
10		10.2		1.52	11.72						
11		10.7		1.40	12.10						
12		10.7		1.40	12.10						
13		11.1?		1.30	1240?						
14		11.70 1 1 11.6 11.8		1.18 (18)	12.88						
15		12.35 1 0 12.3 12.4		1.04	13.39						
16		13.10 0 0 13.1 13.1		0.95	1405						
17		13.35 0 1 13.4 13.3		0.94	14.29						
18		13.50 0 0 13.5 13.5		0.94	1444						
19		f. f.	.	.							
20		m.s. m.s.	.	.							

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1915phae.proj.10710

Wednesday November 24, 1915

Scale R · Series 551. Card

Mc 9312 — ~~N.G.C. 1039~~ = Persei. — 2 36 + 42.5 — +22

	sc.1	sc.2		Cw.		Diff. Im. sc2	sc2	Cw.		P.C. sc2		
						11.40 L 1						
a	B			,		11.3	11.5	-2.46	8.94	11.6	-2.80	8.80
c	6.9 6.8 6			2.52	9.42	12.30 L 1 12.2	12.4	-2.70	9.60	t.p.	.	.
d	6.8 7.0 6.5 6.7		690 L 1	2.52	9.42	12.45 1 0 12.5	12.4	-2.74	9.71	12.8	-3.19	9.61
b	6.8 6.5			2.55	9.35	12.35 L 0 12.3	12.4	-2.70	9.65	t.p.	.	.
e	7.7 7.4	B.		2.26	9.96	sup.	t.p.	.	.	13.3	-3.35	9.95
g	8.7 8.4	8.6	865 1 0	1.98	10.63	t.p.	t.p.	.	.	t.	.	.
f	8.8 8.5	8.8	880 0 0	1.93	10.73	13.1	t.p.	-2.93	10.77			
k		9.3		1.80	11.10	t	t	.	.			
k'		9.6		1.72	11.32	n.s.	n.s.	.	.			
m		10.1		1.58	11.68							
l		10.5		1.45	11.95							
n		10.5 9.6										
n'		11.10 0 0 11.1	11.1	1.30	12.40							
n²		12.10 0 0 12.1	12.1	1.08	13.18							
o		12.35 0 1 12.4	12.3	1.04	13.39							
f₂		~~12.1~~ 12.85 1 0	12.8	0.98	13.83							
q		13.25 0 1 13.2	13.3	0.95	14.20							
r		13.40 0 0 13.4	13.4	094	14.34							
s		~~11.8~~ w.s.f		.	.							
+		13.90 0 0 13.9	13.9?	.	.							
Var.	7.7 7.4			2.26	9.96					13.5		

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Friday, November 26, 1915

Scale 8 — Scale-measures of a plate for $\varepsilon\,6^{5}$ 12-45°

1:13 — A 10941 — 4 Expo. 1, 8, 64, 1^{m}

		1st Expo. 1^{m} (nearest south end of pl.)		2nd Expo. 64^{m}.	
		sc.1	sc.2	sc.1	sc.2
	1	B		t.p.	
	2	B.		"	
Edge	3	t.p.		"	
	4	t.p.		"	
	5	B.		"	
	6	t.p.		"	
	7	t.p.		"	
	8	4.8	^{4,5}B	"	
	9	t.p.	t.p.	"	
	10	t.p.	t.p.	"	
	11	t.p.	t.p.	"	
	12	6.6	$^{6.3}$ 6.6 $^{6.45\pm.2}$	"	
	13	t.p.	t.p.	"	
Remeasur. 4, 16	14	6.6	$^{6.3}$ 6.6 $^{6.45\pm.2}$	"	
sc.2 6.4 —					
sc.2 6.8	15		$^{7.10^{00}}$ 7.1 7.1	"	
t.p.	16		t.p. t.p.	"	
sc.2 7.1	17		$^{7.3}$ $^{7.40\pm.2}$ $^{7.5}_{.00}$	"	
	18		$^{7.6}$ $^{7.60\pm.2}$ $^{7.6}_{.0}$	"	
	19		8.1 $^{8.15\pm.0}$ 8.2	"	
	20	~~t.p.~~	t.p. t.p.	"	
	21		$^{8.6000}$ 8.6 8.6	"	
	22		~~9.5~~	"	
	23		~~t~~	"	
	24		~~t~~	"	
	25			"	
	26			"	

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1915phae.proj.10710

Friday November 26, 1915

Scale P

A plate for E 5 12-45

A 10941 cont.

	1st Eph.	2nd Eph. 64m.
~~30~~	sc. 1 sc. 2	sc. 1 sc. 2
37		t.p.
38		t.p.
39	9th w.s.	t.p.
30		t.p.
31		t.p.
32		78
33		8.2 poor
34		8.6
35		t.p.
36		8.6: poor
37		f.
38		f.
39		w.s.
40		

(see next page)
* 3rd Eph. Is images very poor. Trouble with clock or trails?

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1915phae.proj.10710

Friday November 26, 1915-

Scale P A plate for E 5- No. of sheet = 81.

Q 10941 cont.

		* 3rd exp. 8m		4th exp. 1m. (most northern exp. P. 33 (exp. 1m)				
		sc.1 sc.2		sc.1 sc.2			curve	magn.
	1	B		B		mean.	.	
	2			B.		.	.	
Out of focus	3	.		t.p.		.	.	
	4			3.6 3.3		3.3 a	4.01	4.04	7.84
	5			3.8 3.5		3.5 a.	4.00	3.96	7.46
	6			t.p.		.		.	
	7	.		t.p.		.		.	
	8			4.5 4.2	4.5	4.35 21	3.87	3.81	8.16
	9	.		t.p. t.p.		.		.	
	10	.		t.p. t.p.		.		.	
	11	.		t.p. t.p.		.		.	
	12			6.2 5.9 6.2 6.05 ±2	6.45	6.35 2020	3.19	3.30 4	9.59
	13	.		t.p. t.p.	.	.		.	
	14			6.4 6.1 6.4 6.25 ±2	6.45	6.35 10 10	3.19	3.32	9.67
	15			6.7 6.4 6.6 6.50 ±2	7.10	6.80 30 30	3.32	3.22	10.02
	16	B		6.6 6.3 6.6 6.45 ±2	.	6.45 a.	4.44	3.90	9.75
	17	B		6.7 6.4 6.8 poor 6.60 ±2	7.40	7.00 4040	3.31	3.18	10.18
	18	B		7.4	7.60	7.50 1010	3.12	3.08	10.58
	19	B		7.6	8.15	7.88 2828	3.02	3.02	10.90
	20	t.p.		8.4 8.2 8.30 11	.	8.30 a.	2.90	2.96	12.26
	21	t.p.		8.3 8.2 8.25 10	8.60	8.42 1718	2.96	2.94	11.36
	22	t.p.		8.8 8.9 8.85 01	9.5	9.18 3332	2.83	2.90	12.08
	23	t.p.		9.4 9.5 9.45 01	.	9.45 a.	2.94	2.90	12.35
	24	t.p.		9.6 9.6 9.60 00	.	9.60 a.	2.96	2.90	12.50
	25	t.p.		t. t			.		.
	26	t.p.		m.s			.		.

Imp. - 3rd exp. are very bad.

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Friday November 26-1915.

Scale P

Scale measures for 26 - 12-45

α 10941 - cont

3rd Eqt. 8m

Sc. 2

27 t.p.

28 t.p.

29

30

31

32

33

34

35

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1915phae.proj.10710

Tuesday November 30, 1915.

Scale R Sc Measures of P.C. of Mc 3928 - h Sagittae. 19 14 + 19 4

11:33

	Mc 3925 Pole. P.C. sc.1	sc.2		Mc 3930 P.C. sc.1	sc.2		Diff.
5	8.4 7.9	8.1 8.5	8.45 01	8.1 7.8	8.2	8.15 1 0	8.30 15 15 - 1.81
6	9.1 8.8	9.1	9.10 00	8.8 8.5	8.7	8.750 1	8.92 18 17 - 1.81
8		10.6			10.4		10.50 1 1 - 2.27
9		11.4			11.2		11.30 1 1 - 2.47
10		11.55 01 11.6	11.5		11.3		11.42 13 12 - 2.40
11		12.25 01 12.2	12.3		11.7		11.98 27 28 - 2.43
12		12.70 00 12.7	12.7		12.55 01 12.6	12.5	12.62 08 07 - 2.76
13		13.15 1 0 13.1	13.2		13.25 01 13.2	13.3	13.20 05 05 - 2.90
14		13.60 00 13.6	13.6		13.40 00 13.4	13.4	13.50 10 10 - 2.85
15		14.00 00 14.0	14.0		t.p.	t.p.	14.00 a, - 2.92
16		f	f		~~13.9~~ ?	~~13.9~~ ? rej. t.p.	,
17		n.s.	n.s.		f.	f.	, ,
18					n.s.	n.s.	,

12:10

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Tuesday November 30, 1915.

Scale R Sc. measures - P.C. Mc 3928 for U Sagittae.

Mc 3928 U Sagittae. Alt. +.17 Copied

P.C.

	sc.1	sc.2	Cw.	Magw	
a	t.p.				
B	t.p.				
a*	t.p.				
a'	t.p.				
a²	t.p.				
b'	t.p.				
b²	t.p.				
c	t.p.				
d	t.p.				
e	t.p.				
f	t.p.				
g	t.p.				
h	11.2		2.56	13.76 - 2.44	8.76
h'	12.1		2.38	14.48 - 2.63	9.47
h²	12.21		2.34	14.54 - 2.65	9.55
k	10.8		2.67	13.47 - 2.33	8.47
l	10.2?		2.82	13.02? - 2.18	8.02?
m	12.80 1 1 12.7	12.9	2.23	15.03 - 2.77	10.03
n	13.1	t.p.	2.18	14.28 - 2.82	10.28
o	12.55 0 1 12.6	12.5	2.28	14.83 - 2.72	9.83
p	13.85 0 1 13.8?	13.9	2.09	14.94 - 2.91	10.94
q	13.45 1 0 13.5	13.4	2.13	15.58 - 2.88	10.57
r	t.p.	t.p.	.	. .	.
s	n.s.		.	. .	.
t	n.s.		.	. .	.
u	n.s.		.	. .	.

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1915phae.proj.10710

Monday December 6, 1915

Scale R

Series 582. YELLOW

9:23 Mc 9:7:34 Cole.

Mc 9:7:39.

	Diff.		sc.1	sc.2	sc.3	sc.1	sc.2		sc.2	sc.2	sc.2	
.	.	5	B			t.p.			11.4	11.60 2 2	11.8	-.517 6.43
5.60	3 3	1.38	6	5.3 5.0			5.9 5.6		12.2	12.45 2 3	12.1	-.547 6.98
7.65	2 3	0.38	8	7.4 7.1	B.		7.9 7.6	B	13.5	13.70 3 2	13.9? ~~13.5~~	-.567 8.03
8.78	38 37	-0.04	9	8.4 8.1	8.4	8.40 0 0	9.2 8.9	9.1	9.00 0 1	n.s.	n.s.	, ,
9.42	37 38	-.054	10	9.0 8.7	9.1	9.05 0 1		9.8				
10.50	40 40	-.114	11		10.1			10.9				
10.75	35 35	-.117	12		10.4			11.1				
11.55	25 25	-.147	13		11.30 1 1 11.4 11.2			11.80 0 0 11.8 11.8				
11.90	10 10	-.166	14		11.80 1 1 11.9 11.7			12.00 2 2 11.8 12.2				
12.48	28 27	-.184	15		12.20 0 0 12.2 12.2			12.75 1 0 12.7 12.8				
12.98	23 22	-.204	16		12.75 1 2 12.9 12.6			13.20 1 1 13.1 13.3				
13.25	15 15	-.221	17		13.10 0 0 13.1 13.1			13.40 0 0 13.4 13.4				
.	.		18		t.p. t.p.			t.p. t.p.				
.	.		19		very lt. lt.			n.s. n.s.				
.	.		20		n.s.							
			23									
			24									

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Monday December 6, 1915

Scale R

Series 582 - YELLOW

	mc 9 3 4		Pole.		Diffr Im.		
	g	h	g	h			
	sec 2	sec 2	sec 2	sec 2			
5	11.2 11.20	11.2	11.75 L 0 11.7	11.8	11.48	28	27 - 5.05
6	12.2 12.20	12.2	Scr.	12.8	12.50	30	30 - 5.52
8	13.5 13.55 L 0	13.6	t.f.	13.9	13.72	17	18 - 5.69
9	7	7.	7	7			
10							
11							
12							
13							

10.30

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1915phae.proj.10710

Monday December 6-1915

Card

Scale R

Series 582 - YELLOW

Alt Cor -.02

Mc 9735 | O' Ceti | 1 30-7.5

	No.1	No.2	No.3	Cor.	Magn	Diffr. Inn. g	Diffr. Inn. h	Cc. No.2
	6.9							
1	6.6			0.74	7.64	12.5? t.f.	-5.50 7.00	12.4 -5.46 6.94
		9.60 1 1						
2		9.7	9.5	-.060	9.00	n.s.	n.s. . .	½ . .
		10.60 0 0						
3		10.6	10.6	-.109	9.51			
		11.65 1 0						
4		11.7	11.6	-.153	10.12			
5		12.8 ?poor	t.f.	-.197	10.83			
		13.10 0 0						
6		13.1	13.1	-.206	11.04			
7		t.f.	t.f.	.	.			
8		t.f.		.	.			
9		.						
10								
11								
12								

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Monday December 6 - 1915

Card.

Scale R

Series 582 - YELLOW

A+ Con +02 1

MC 9736 DM 1 30 - 2.5

	sc1	sc2		Cw.	Magn	Diffr. Inn. sc2	sc2	Cw.		F.C. sc2	Cw.
1	t.f.			.	.	t.f.	t.f.	.		12.3	-.541 689
2	6.6 6.3	B.		0.86	7.46	12.35 0 L 12.4	12.3	-.541	694	12.3	-.541 689
3	8.4 8.1	8.2	8.30 1 1	.003	8.33	t.f.	t.f.	.	.	13.4	-.564 776
4	8.5 8.2	C.f	860 1 1	-.012	8.48	13.40 00 13.4	13.4	-.568	7.72	t.f.	. .
5		9.3		-.045	8.85	n.s	n.s.	.		t.f.	. .
6		10.1		-.085	9.25						
7		10.2		-.090	9.30						
8		10.60 00 10.6	10.6	-.110	9.50						
9		11.00 1 L 11.1	10.9	-.128	9.72						
10		11.35 0 L 11.4	11.3	-.142	9.93						
11		t.f.	t.f.	.	.						
12		t.f.	t.f.	.	.						
13		13.2	t.f.	-.210	11.10						
14		t.f.	13.4	-.217	11.23						

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Monday December 6, 1915

Card.

Scale R

Series 582. YELLOW

All Corr - 04

MC 9737

DM

3h -10.0

	sc.1	sc.2	Corr.	Magn	Diff. Int. sc.1	Diff. Int. sc.2	P.C. sc.2
	5.6				g h		
1	5.3	8.	1.36	6.96	11.9 12.1	-5.29 6.71	12.3 -5.41 6.89
2	8.7	8.15	0.10	8.25	n.s	n.s.	f.
3	8.8	9.0	-0.31	8.74			n.s.
4	8.9	9.1	-0.38	8.77			
5		10.7	-1.14	9.56			
6		11.4	-1.45	9.95			
7		11.7	-1.55	10.15			
8		12.3 12.25	-1.78	10.47			
9		12.6 12.4 12.50	-1.84	10.66			
10		12.4? 12.6? 12.50	-1.84	10.66			
11		13.2 13.2 13.20	-2.10	11.10			
12		13.5 13.5 13.50	-2.20	11.30			

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Monday December 6, 1915

Card.

Scale R

WC 1-137 Series 582 YELLOW

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Mc9738 D21

P.C. Alt – 10

	Sc.1		Qw.	Magn	Sc.2			Sc.2
1	5.5 5.2		1.40	6.90	12.2	-5.39	6.81	12.2
2	6.9 6.6		0.74	7.64	13.5 8	-5.65	7.85	13.5
3	B.		.	.	11.3	-5.06	6.24	
4	7.9 7.6		0.23	8.13	t.p.	.	.	
5	5.7 5.4		1.32	7.02	12.6	-5.50	7.10	
6	7.4 7.1		0.48	7.88	13.7 8	.	.	13.4
7	7.8 7.5		0.26	8.06	t.	.	.	
8	6.9 6.6	B.	0.72	7.62	13.4	-5.64	7.76	
9	8.7 8.4	8.3 8.50 22	-0.08	8.42	n.s.	.	.	
10	9.8		-0.69	9.11				
11	10.1		-0.84	9.26				
12	10.2		-0.90	9.30				
13	10.6		-1.10	9.50				
14	11.5		-1.48	10.02				
15	12.4		-1.83	10.57				
16	11.3 12.20 1 1		-1.40	9.90				
17	12.1 12.3 13.30 0 0		-1.77	10.43				
17a	13.3 13.3 13.45 0 1		-2.14	11.16				
18	13.4 13.5		-2.18	11.27				
19	13.1 t.p. 13.75 1 0		.	.				
20	13.7 13.8		.	.				
21	t. n.s.		.	.				
22	n.s. n.s.		.	.				
23	n.s. n.s.		.	.				

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Monday December 6, 1915.

Scale R. Series 582 YELLOW

Mc 9738 D 2 Diffr. Inn.

	g		h			
	sc.1	sc.2	sc.1	sc.2	Cm.	Magn
1	120	12.10	1 1	12.2	-5.32	6.78
2	t.f.		t.f.		,	,
3	t.f.		t.f.		,	,
4	n.s.		n.s.		,	,
5	12.5	12.55	1 0	12.6	-5.49	7.06
6	13.5	13.50	0 0	13.5	-5.69	7.81
7	t.f.		t.f.		,	,
8	13.5	13.45	1 0	13.4	-5.68	7. ~~8~~.77
9	t.f.		t.f.		,	,
10						
11						
12						
13						
14						
15						
16						
17						
17a						
18						
19						

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1915phae.proj.10710

Tuesday December 7, 1915.

Scale IV

Series 582 - YELLOW

9.280

	Diff.			Mc 9739 sc.1	Mc 9739 sc.2		Pole. Mc 9745 sc.1	Mc 9745 sc.2		P.C. mc. 9745 sc.2	P.C. mc. 9745 sc.2	
.	.	5	B				Q.			11.60 1 1 11.7	11.5	-5.17
5.75	02	03	1.23	6	6.0 5.7		5.5 5.2			12.50 0 0 12.5	12.5	-5.52
7.80	02	02	0.23	8	8.0 7.7	B.	7.6 7.3	B		13.55 0 1 13.6	13.5	-5.52
9.00	15	15	-0.26	9	9.7 8.9	9.1 9.15 0 1	8.8 8.5	8.9	8.85 0 1	n.s.	ns	
9.48	22	23	-0.60	10		9.7	9.2 8.9	9.3	9.25 0 1			
10.52	13	12	-1.16	11	10.65 1 0 10.7	10.6		10.4				
10.72	03	02	-1.14	12	10.75 0 1 10.8	10.7		10.1				
11.58	07	08	-1.50	13	11.65 0 1 11.6	11.7		11.5				
11.88	08	07	-1.64	14	11.80 0 0 11.8	11.8		11.95 1 2 12.1	11.8			
12.65	10	10	-2.01	15	12.75 0 1 12.8	12.7		12.55 1 0 12.5	12.6			
13.28	02	03	-2.34	16	13.30 1 1 13.2	13.4		13.25 0 1 13.2	13.3			
13.40	0	0	-2.36	17	13.4 t.p.			13.4				
13.60	0	.	-2.04	18	13.6 t.p.			t.p.				
.		.		19	t.	t.		t.				
.		.		20	n.s.			n.s.				
.		.		23								

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1915phae.proj.10710

Tuesday December 7, 1915

Scale R. Series 582 YELLOW

	Mc9739 g	Mc9739 h	Pole	Diffr. Inv. 9745 g	9745 h			
	sc 2 sc	sc 2		sc 2	sc 2			
5	11.7 11.70 00	11.7		11.40 00 11.4	11.4	11.55	15 15	− 5.12
6	12.6 12.65 01	12.7		12.40 00 12.4	12.4	12.52	13 12	− 5.54
8	t.f.	13.8		1	1	13.80	a	− 5.77
9	n.s.	n.s.		ns	n.s.			
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

11:41.

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Tuesday December 7. 1915

Scale R

Series 582 YELLOW

Card

All Counts

Mc 9740 DM $3^h +30.^0$

Diffr. Inn. Q.C.

	Rc.1	Rc.2		Cw.	Magn	Δ^h	Rc.1	Rc.2		Cw.	Magn	Rc.2	Cw.	Magn
1	5.4 5.1	B.		.			12.3	12.3	12.30 00	−.542	6.88	12.3	−.538	6.92
2	8.2 7.9	8.0	8.10 1 1	+.005	8.15		13.6	t.p.		−.576	7.84	n.s.	.	
3	8.2 7.9	8.1	8.15 0 1	.002	8.17		n.s.	n.s.			.			
4	8.9 8.6	9.1	9.00 1 1	−.038	8.62									
5		9.6		−.064	8.96									
6		10.1		−.088	9.22									
7		10.3		−.098	9.32									
8		10.60 1 1 10.5 10.7		−.113	9.47									
9		11.45 1 0 11.5 11.4		−.148	9.97									
10		11.50 0 0 11.5 11.5		−.149	10.01									
11		12.35 0 1 12.4 12.3		−.187	10.48									
12		12.15 2 2 12.9 13.4		−.218	10.97									

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Tuesday December 7, 1915

Card

Scale R Series 582 YELLOW Alt Con +13

Mc 9741 R J Persei. 3 12 +45.0°

Var Leg.		sc 1	sc 2	Cw		Diff. In. g sc 2	Diff. In. h sc 2	C.C. sc 2
dbl.	a	9.4 / 11.3				n.s.	n.s.	n.s.
	a'	7.7 7.4	B	024	7.94	n.s.	n.s.	13.9 − 5.64 8.26
	b	8.7 8.4	8.5 8.60 1 1	-018	8.42			n.s.
	c		10.4	-102	9.38			
	d		10.5	-108	9.42			
	e		10.5	-108	9.42			
	f		11.05 2 1 / 11.2 10.9	-130	9.75			
	g		11.40 0 0 / 11.4 11.4	-147	9.93			
	h		11.75 0 1 / 11.8 11.7	-160	10.15			
	k		12.70 1 1 / 12.6 12.8	-200	10.70			
	l		12.90 0 0 / 12.9 12.9	-208	10.82			
	m		n.s.	.	.			
	n		n.s.	.	.			
	o							
	p							

Ref. leg for Centre of Gr.						Diff. g	Diff. h	C.C. sc 2
	1	8.6 8.3	8.5 8.55 0 1	-015	8.40	n.s.	n.s.	n.s.
	2	8.2 7.9	8.2 8.20 0 0	0.01	8.21	n.s.	n.s.	n.s.
	3		9.9	-079	9.11	n.s.	n.s.	n.s.
	4		9.7	-069	9.01			
	5		10.6	-113	9.47			
	6		11.60 1 1 / 11.5 11.7	-154	10.06			
	7		11.55 1 0 / 11.5 11.6	-151	10.04			
	8		12.45 1 0 / 12.5 12.4	-180	10.65			
	9		13.15 1 0 / 13.1 13.2	-218	10.97			

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Tuesday, December 7, 1915

Scale R

Series 582 YELLOW

mc94.41 R J Perseii cont

		20.2		
10	12	-2.00	10.70	
11	n.s.	"	"	
12	n.s.	"	"	
13	13	-2.24	11.06	
14	n.s.	"	"	
15	n.s.	"	"	

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Tuesday December 7, 1915 Cand.

Scale R Series 582 YELLOW Copied Plt 234

Mc 9742 Pleiades. h 3 42 m + 23.8 dlt. +11

	sc 1	sc 2			Diffr. Inv. sc 1	sc 2	sc 1	sc 2	P.C. sc 1	sc 2		
1	B				B				6.8 6.5			
2	B				B				7.7 7.4			
3	B				B	B			7.9 7.6			
4	B				B	B			8.0 7.7			
5	B				B	B			8.4 8.1			
6	B.				B	B			8.7 8.4			
7	B				8.7 8.4	8.9 8.6	8.80	1	stw -0.28 -374	8.52	sc 2 9.4	
8	B				10.2	sc 2 10.2	10.20	0	stw -0.91	9.29	10.2	
9	B				10.4	10.4	10.40	0	stw 10.2 9.38 -5.41 -6.29		10.6	
10	B				11.5	11.4	11.45	1 0	-5.13	6.32	11.4	-5.14 6.26
11	B				12.2	11.8	12.00	2	-5.33	6.67	12.2	-5.35 6.85
12	5.1	54			12.3	12.4	12.35	1 0	-5.43	6.92	12.2	-5.35 6.85
13	5.6	59	1.15	7.05	12.1	12.5	12.60	1 1	-5.50	7.10	12.3	-5.38 6.92
14	6.1	64	0.90	7.30	t.p.	12.8			-5.57	7.23	12.8	-5.48 7.32
15	5.8	61	1.05	7.15		13.3	12.8	13.05	3 2	-5.64	7.41	12.7 -5.46 7.24
16	6.1	64	0.90	7.30		13.4	12.8?	n.s.	13.10	3 2	-5.65	7.45 13.2 -5.54 7.66
17	7.1	74 B.	0.39	7.79		13.4	13.6	13.50	1 1	-5.73	7.77	13.5 -5.60 7.90
18	7.1	80 8.1	8.05 0 1	0.10	8.15		t.p.	n.s.				13.9 13.5 n.s. -5.65 8.25
dbl? 19	8.5?	88 8.1?	8.75 0 1	-0.24	8.51		n.s.					n.s.
20	8.3	86 8.8	8.70 1 1	-0.22	8.48		n.s.					n.s.
21	8.2	85 8.6	8.55 1 0	-0.15	8.40		n.s.					
22	8.5	88 8.9	8.85 0 1	-0.29	8.56							
23		9.4		-0.54	8.86							
24		9.4		-0.54	8.86							
25		10.1		-0.89	9.21							
26	8.5	88 8.1	8.75 0 1	-0.24	8.51							

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Scale P

Series 582 YELLOW

MQ9742 Pleiades cont-

	sc?	sc?		Cw.	
27	11.4	11.2	11.30	1 1	-140	9.90
28	11.7	11.9	11.80	1 1	-164	10.16
29	10.3	10.4	10.35	1 0	-100	9.35
29a	11.6	11.6	11.60	0 0	-154	10.06
30	12.4	12.4	12.40	0 0	-189	10.51
31	13.4	13.5	13.45	0 1	-228	11.17
32	t.f.	t.f.				
33	n.s.	n.s.				
34	n.s.					
32a	n.s					

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Card.

Scale R

Series 582 YELLOW

Alt Corr – 10

MC 9743 λ Eridani 4 00 – 15 0°

	sc.1	sc.2	Cw.	Magn	Diffr. Inv. g	h	Cw.	P.C. sc.2
1	B.		.	.	10.21	10.1 ~~+0.15 01 0.90~~	9.25	10.4 . .
2		9.4 .	-0.55	8.8 ~~9.35~~	N.S.	N.S.		
3		9.4	-0.55	8.8 ~~9.35~~				
4		10.4	-1.03	37 ~~9.38~~				
5		10.1	-1.15	5 9.85				
6		10.75 10 10.1 10.8	-1.19	56 ~~9.94~~				
7		11.70 11 11.8 11.6	-1.59	11 10.29				
8		12.50 11 12.6 12.4	-1.90	10.60 ~~9.38~~				
9		12.5 t.f.	-1.90	10.60 ~~9.40~~				
10		t.f. t.f.	.	.				
11		t.f.	.	.				
12		t.f.	.	.				

Two nos "1". Ft. one meas. here } 11 9.4 .24 7.94 ½.

Seq. not in center of fie-

1915phae.proj.10710

Tuesday December 7, 1915

Card

Scale R

Series #582 YELLOW

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Mc 9744 Bz- 4 +45

P.C. Alt +13

	pe.1			Cw.	Magn.	RC 2 DC 7	Cw.	Magn.
1	5.6 (5.9)			.115	7.05	12.5	-.542	7.08
2	6.5 (6.8)			.069	7.49	13.2	-.555	7.65
3	7.3 (7.6)			.029	7.89	t.p.	,	,
4	6.5 (6.8)	B		.069	7.49	13.4	-.558	7.82
5	7.81 (8.0)	B		.010	8.10	n.s.	,	,
6	7.8 (8.1)	8.21	8.15 1 0	.003	8.18	n.s.	,	,
7	6.3 (6.6)	B		.079	7.39	13.2	-.555	7.65
8	8.5 (8.8)	8.9	8.85 0 1	-.030	8.55	n.s.	,	,
9	8.8 (9.1)	9.1	9.10 0 0	-.040	8.70	n.s.	,	,
10		9.3		-.050	8.80			
11	8.1 (8.4)	8.4	8.40 0 0	-.009	8.31			
12		10.3		-.098	9.32			
13		10.3		-.098	9.32			
14		10.3		-.098	9.32			
15		11.3		-.141	9.89			
16		9.6		-.064	8.96			
17		10.8		-.120	9.60			
18		11.6		-.155	10.05			
19		12.7		-.199	10.78			
20		12.5		-.191	10.59			
21		13.20 1 1 13.1 13.3		-.220	11.00			
22		13.25 0 1 13.2 13.3		-.221	11.04			
23		12.20 1 1 12.3 12.1		-.180	10.40			
24		12.35 1 0 12.3 12.4		-.186	10.49			
24a		13.40 0 0 13.4 13.4		-.227	11.13			
25		13.35 0 1 13.4 13.3		-.225	11.10			
26		n.s. n.s.		.	.			
27		n.s.		.	.			

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Tuesday December 7, 1915

Scale R Series 582 - YELLOW

Mc 9744 B 2 Diffr. Inv.

	g sc.1	g sc.2	h sc.1	h sc.2	Cw.	Magn.
1	12.5	12.55	1.0	12.6	-5.50	7.05
2	n.s.			13.3	-5.69	7.61
3	n.s.			13.4	-5.72	7.68
4	13.4	13.40	00	13.4	-5.72	7.68
5	t.p.			t.p.	.	.
6	n.s.			n.s.	.	.
7	13.1	13.10	00	13.1	-5.65	7.45
8	n.s.			n.s.	.	.
9	n.s.			n.s.	.	.
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

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Saturday December ~~25~~ 11, 1915.

Scale R. 9:55

Series 569 -

Pl. Sheet No 238

Mc 9564

Pole -

Diff.		Mc 9564 sc.1	Mc 9564 sc.2	Mc 9564 sc.2	Mc 9512 sc.1	Mc 9512 sc.2	P.C.	P.C. 9512 sc.1	P.C. 9512 sc.2	Diff.
	5						8.1 7.8 8.05 1 0	8.0 7.7		-1.56
	6						9.1 8.8 9.00 1 1	8.9 8.6		-1.89
	8						10.4 10.45 0 1	10.5		-2.22
Diff	9						11.3 11.30 0 0	11.3		-2.47
2.42	10	6.6 6.3			6.6 6.3		6.60 0 0	11.7 11.70 0 0	11.7	-2.68
2.05	11	7.6 7.3			7.4 7.1		7.50 1 1	12.2 12.25 0 1	12.3	-2.70
2.01	12	7.9 7.6 B.			7.8 7.5 B.		7.85 1 0	12.3 12.45 1 2	12.6	-2.59
1.88	13	8.6 8.3	8.3	8.45 2 1	8.5 8.2	8.3	8.40 1 1 8.42 03 02	13.4 13.35 0 1	13.3	-3.05
1.73	14	9.0 8.7	8.8	8.90 1 1	8.8 8.5	9.1	8.95 2 1 8.92 02 03	13.5	t.p.	-2.85
1.53	15		9.6			9.5	9.55 0 1	↓		-
1.55	16		9.9			9.8	9.85 1 0			
1.28	17		10.4			10.3	10.35 0 1			
1.36	18		10.7			10.7	10.70 0 0			
1.07	19		11.3			11.4	11.35 1 0			
1.21	20		11.40 1 1 5 11.3 11.8 12.2			11.65 1 0 11.7 11.6	11.52 12 13			
1.09	23		12.25 0 1 12.2 12.3			12.25 0 1 12.2 12.3	12.25 00 00			
1.25	25		12.60 1 1 12.5 12.7			12.65 1 0 12.7 12.6	12.62 02 03			
0.98	26		13.40 0 0 13.4 13.4			13.30 0 0 13.3 13.3	13.35 05 05			
1.19	27		13.60 1 1 13.7 13.5			13.40 0 0 13.4 13.4	13.50 10 10			
.	28		↓ ↓			↓ ↓	.			
.	29		n.s.			n.s. n.s.	.			
.	30									

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Scale

Series 569.

	mc 9567 g sc.1	mc 9567 g sc.2	mc 9567 h sc.1	mc 9567 h sc.2	Pole	Diffr. Inv.	Diff
5	8.3 8.6	8.50 1 1 8.4	8.1 8.4	t.f.		8.45 05 05	-196
6	8.1 9.0	9.00 0 0 9.0	8.1 9.0	8.90 1 1 8.8		8.95 05 05	-184
8	10.4	10.40 0 0 10.4	10.5	10.50 0 0 10.5		10.45 05 05	-222
9	11.2	11.20 0 0 11.2	11.3	11.20 1 1 11.1		11.20 00 00	-237
10	11.5	11.50 0 0 11.5	11.6	11.60 0 0 11.6		11.55 05 05	-253
11	12.2	12.15 0 1 12.1	12.2	12.15 0 1 12.1		12.15 00 00	-260
12	12.6	12.60 0 0 12.6	12.5	12.45 1 0 12.4		12.52 08 07	-266
13	12.8	12.95 2 1 13.1	13.1	13.00 1 1 12.9		12.98 03 02	-268
14	13.1	13.15 1 0 13.2	13.3	13.35 1 0 13.4		13.25 10 10	-260
15	13.5	13.60 1 1 13.7	13.5	13.65 1 2 13.8		13.62 02 03	-254
16	t.f.	t.f.	t.f.	14.0		14.00 , a	-260
17	n.s.	n.s.	n.s.	n.s.		,	
18							
19							
20							
23							
25							

12 –

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Scale R

Series 569.

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Card.

mc 9568 Carte 00 +65° Alt. +0.18

					Diffr. Inn.					P.C.		
	Rad.	sec.²	Cm.	Magn	q sec.²	h sec.²				sec.²	Cm.	
1	B.		.	.	11.2	11.1	11.15	01	-2.45	8.70	10.8	-2.36 8.44
2	7.4 7.1		2.16	9.56	11.7	12.1	11.90	22	-2.59	9.31	12.1	-2.69 9.41
3	8.2 7.9	B.	1.93	10.13	12.7	12.7	12.70	00	-2.65	10.05	13.1	-2.86 10.24
4	8.6 8.3	8.4 8.50	1 1 1.85	10.35	13.3	13.3	13.30	00	-2.62	10.68	13.4	-2.88 10.52
5		9.3	1.63	10.93	13.5	t/.			-2.60	10.90	t/.	. .
6		9.7	1.53	11.23	t/.	13.7			-2.57	11.13	t	. .
7		10.4	1.36	11.76	t	t			.	.		
8		10.6	1.32	11.92								
9		10.8	1.28	12.08								
10		11.6	1.13	12.73								
11		11.4	1.15	12.55								
12		11.8	1.11	12.91								
13		11.7	1.13	12.83								
14		12.3	1.08	13.38								
15	12.60 22	12.3 11.9	1.09	13.19								
16	12.50 00	12.5 12.5	1.08	13.58								
17	12.90 00	12.7 12.9	1.07	13.97								
8	13.35 01	13.4 13.3	1.08	14.43								
19	13.60 11	13.5 13.7	1.15	14.75								
20		t t	.	.								

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Scale R Series 569. Alt. +.20 Card.

MC 9569 N.G.C. 225 0 40 +60

	sc.1	sc.2		Cw.	Magn	g sc.2	h sc.2	Cw.	Magn	O.C. sc.2	sc.2		
1	B.			.	.	10.4	10.6	10.50 L1	7 -2.28	8.22	3 1060 L1 10.5	10.7	-2.30 8.30
2	6.1 5.8			.	.	11.2	11.4	11.30 L1	48 -2.52	8.80	2 11.3		-2.49 8.81
3	7.1 6.8			2.25	9.35	12.1	12.2	12.15 L0	-2.63	9.52	12.1		-2.70 9.40
4	7.2 6.9			2.21	9.41	12.2	12.2	12.20 00	-2.63	9.57	12.4		-2.76 9.84
5	8.0 7.7			1.98	9.98	12.7	12.6	12.65 10	-2.65	10.00	12.9		-2.84 10.06
6	8.1 7.8	B		1.96	10.06	12.7	12.7	12.70 00	-2.65	10.05	13.1		-2.87 10.23
7	8.6 8.3	8.5	8.55	01	1.84	10.39	13.4	13.5	13.45 01	-2.61	10.84	t.f.	. .
8	9.1 8.8	9.2	9.15	L0	1.68	10.83	13.6	13.7	13.65 01	-2.58	11.07	t.f.	. .
9		9.4	9.6	9.50	L1 1.57	11.07	t.f.	t.	,		.		
10		9.7	9.9	9.80	L1 1.50	11.30							
11		10.3	10.4	10.35	L0 1.38	11.73							
12		10.5	10.5	10.50	00 1.35	11.85							
13		11.2	11.2	11.20	00 1.19	12.39							
14		11.7	11.6	11.65	10 1.12	12.77							
15		12.3	12.2	12.25	10 1.08	13.33							
16		12.7	12.9	12.80	L1 1.07	13.87							
17		13.4	13.3	13.35	01 1.10	14.45							
18													
19													
20													

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Scale B — Series 569 — Copied Card

Mc 9570 — Carte — 1 + 25° — alt. +0.21

		sc.1	sc.2	sc.2	Cm.	Magn	g h sc.2	sc.2	Cm.	Magn	P.C. sc.2	Cm.	Magn
							11.35 ± 1						
1	B				.	.	11.2	11.5	− 2.50	8.86	11.7	− 2.58	9.12
2	6.7 6.1				2.42	8.82	11.6	t.p.	− 2.54	9.06	~~11.7~~ 11.8	− 2.62	9.18
3	8.2 1.9	Q.			1.92	10.12	13.15 ⊥ 0 13.1	13.2	− 2.63	10.52	13.4	− 2.88	10.52
4	8.6 8.3	8.5	8.55	0 1	1.84	10.39	13.40 0 0 13.4	13.4	− 2.61	10.79	13.5	− 2.88	10.62
5	8.7 8.4	8.4	8.55	1 2	1.84	10.39	13.45 0 1 13.4	13.5	− 2.60	10.85	13.5	− 2.88	10.62
6	8.9 8.6	9.1	9.00	⊥ 1	1.70	10.70	13.65 ⊥ 2 13.5	13.8	− 2.58	11.07	13.8	.	.
7		9.6			1.54	11.14	13.85 0 1 13.8	13.9	− 2.56	11.29	↓	.	.
8		10.2			1.41	11.61	↓	↓	.	.			
9		10.5			1.35	11.85							
10		10.9			1.25	12.15							
11		11.3			1.17	12.47							
12		11.7			1.12	12.82							
13		11.7			1.12	12.82							
14		12.30 ⊥ 1 12.2	12.4		1.08	13.38							
15		12.75 0 ⊥ 12.8	12.7		1.07	13.82							
16		13.20 1 ⊥ 13.3	13.1		1.09	14.29							
17		13.4	t.p.		1.10	14.50							
18		13.55 0 ⊥ 13.6	13.5		1.13	14.68							
19		def.	? def.		.	.							
20		1380 1 ⊥ 13.9	13.7		1.15 e	14.95 e							

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Saturday December 11, 1915 Cards

+.22

Scale R Series 569.

Mc9571 * RR Androm. 1 24 + 37.5

Diffr (all out of focus) P.C.

Var	Seq.	pc.1	pc.2	pc.3	Cw.	Magn	sc.2	sc.2	pc.2	Cw.	Magn.
	d	6.8 6.5			2.31	9.11	t.p.	t.p.	12.2	-2.72	9.48
edge	b	7.0 6.7			2.26	9.26	t.p.	t.p.	12.6	-2.80	9.80
	a	7.8 7.5			2.04	9.84	t.p.	t.p.	12.9	-2.84	10.06
	e	8.1 7.8	B.		1.96	10.06	t.p.	t.p.	13.4	-2.88	10.52
	e'	8.7 8.4	8.6	8.65 10	1.81	10.46	t.p.	t.p.	t.p.	.	.
	h	9.0 hor 8.7	t.p.		1.71	10.71	n.s.		t.p.	.	.
	f	9.0 8.7	9.1	9.05 01	1.70	10.70			t.	.	.
near edge	g	t.p.	9.2		1.66	10.86	n.s.				
	k		9.3		1.62	10.92					
	l		10.5		1.35	11.85					
	m		10.6		1.32	11.92					
	n		11.35 01 11.4	11.3	1.17	12.52					
	o'		11.50 00 11.5	11.5	1.14	12.64					
	p		12.35 01 12.4	12.3	1.08	13.43					
	q		12.65 01 12.6	12.7	1.08	13.73					
	r		13.40 00 13.4	13.4	1.10	14.50					
Var.			9.50 11 9.4	9.6	1.57	11.07					

Ref. Seq. for Centre							sc.2	sc.2		sc.2	
	1	B					10.35 01 10.4	10.3	-2.23	8.12	10.6 -2.31 8.29
	2	6.8 6.5			2.31	9.11	t.p.	12.1	-2.62	9.48	12.2 -2.72 9.48
	3	7.7 7.4	B		2.06	9.76	12.30 00 12.3	12.3	-2.64	9.66	12.5 -2.78 9.72
	4	8.4 8.1	8.4	8.40 00	1.87	10.27	t.p.	13.4	-2.61	10.79	13.5 -2.88 10.62
	5	9.0 8.7	9.1	9.05 01	1.70	10.75	t.p.	13.1	-2.58	11.12	13.8 ? hori. . .
	6		10.1		1.44	11.54	t.p.	t.p.	.	.	t. . .

see also next page -

x Seq. for variable not in centre of fd.

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Saturday December 11 1915

Scale R

Series 569-

Mcq571 cont R W Andrews.

Dm Leq.

	Dec.	R.C.	Cw.	Magn
7	10.6		1.32	1.192
8	11.2		1.20	12.40
9	11.3		1.17	12.47
10	11.7		1.12	12.82
11	12.10 00 12.1	12.1	1.09	13.19
12	12.45 01 12.4	12.5	1.08	13.53
13	12.60 00 12.6	12.6	1.08	13.68
14	t.f.	t.f.	,	,
15	13.45 01 13.4	13.5	1.08	14.53
16				
17				
18				
19				

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Monday December 13, 1915

Scale R 10:20 — Series 569 — Pl. Sheet No. 238

Mc 9572 — Pole — Mc 9578.

	sc.1 sc.2	sc.1 sc.2		P.C sc.1 sc.2	P.C sc.1 sc.2	Diff
5				7.9 7.90 0 0	7.9 7.6	-.141
6				8.9 8.85 1 0	8.8 8.5	-.174
8					10.6 10.60 0 0	10.6 -.237
9				Diff	11.4 11.35 0 1	11.3 -.252
10	6.5 6.2	6.4 6.1	6.45 1 0	2.57	11.6 11.45 2 1	11.3 -.243
11	7.4 7.1	7.4 7.1	7.40 0 0	2.15	12.4	t.h. -.285
12	8.0 7.7 B.	7.7 7.4	7.85 2 1	2.01	12.7 12.80 1 1	12.9 -.294
13	8.2 8.4 8.30 1 1	8.4 8.1 B.	8.30 1 1	2.00	13.4 13.35 0 1	13.3 -.305
14	8.9 8.6 8.9 8.90 0 0	8.8 8.5 8.4 8.60 2 2	8.75 1 5 1 5	1.90	~~+.34?~~ def? t.h.	
15	9.5	9.5	9.50 0 0	1.58		
16	9.9	10.0	9.95 1 0	1.45		
17	10.4	10.3	10.35 0 1	1.28		
18	10.8	10.7	10.75 0 1	1.31		
19	11.3	11.1	11.20 1 1	1.22		
20	11.55 0 1 11.6 11.5	11.5	11.52 03 02	1.21		
23	12.25 0 1 12.2 12.3	12.10 0 0 12.1 12.1	12.18 07 08	1.16		
25	12.75 0 1 12.8 12.7	12.75 1 2 12.9 12.6	12.75 00 00	1.12		
26	t.h.	13.40 0 0 13.4 13.4	13.40 . 2	0.93		
27	13.40 0 0 13.4 13.4	13.60 1 1 13.7 13.5	13.50 10 10	1.19		
28	13.75 1 0 13.7 13.8	13.80 0 0 13.8 13.8	13.78 03 02	1.33		
29	n.s. n.s.	n.s. n.s.	,	,		
30	n.s.	n.s.	,	,		
31						

Survey Chart

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Scale R

Series 569-

mc9572 Pole. Diffraction Im.

	fh sc.1	fh sc.2	fg sc.1	fg sc.2	9578 g sc.1	9578 g sc.2				Diff
5	81 7.8	8.25	2	8.4	8.1	sup.	t.f.	8.25	a.	-2.76
6	90 8.7	8.95	0	1	89 8.6	89 86	88	87 84	8.88	07 08	-1.77
8	10.4	10.45	0	1	10.5	10.5	10.50	0 0	10.5	10.48	03 02	-2.25
9	11.4	11.25	2	1	11.1	11.3	11.25	1 0	11.2	11.25	00 00	-2.42
10	11.7	11.60	1	1	11.5	11.5	11.45	1 0	11.4	11.52	08 07	-2.50
11	12.3			t.f.		12.2	12.25	0 1	12.3	12.28	02 03	-2.73
12	12.6	12.55	0	1	12.5	12.3	12.35	1 0	12.4	12.45	10 10	-2.59
13	12.9	13.00	1	1	13.1	13.1	13.15	1 0	13.2	13.08	08 07	-2.78
14	13.4	13.35	0	1	13.3	t.f.		13.3	13.32	03 02	-2.67
15	13.7	13.60	1	1	13.5	t.f.		t.f.	13.60	a.	-2.52
16	14.0	14.00	0	0	14.0	n.s.		n.s.	14.00	a.	-2.60
17	t.		t.								
18											
19											
20											

12:40

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Scale R. Series 569.

Mc 9513	N.G.C. 752	1 48 +39.5	See page 71—

	sc.1	sc.2	Diff Im. sc.2	Diff Im. sc.2	P.C. sc.2	
1	B		10.6	10.6	sup?	Im. peculiar.
2	5.4		10.8	11.1	10.9	
3	5.6		11.2	11.4	11.3	
4	5.9	B	11.2	11.6	11.7	
5	7.8	8.1	12.3	12.4 12.9 now 12.7	13.1	
6	8.4	8.8	13.4	13.4	13.6	
7	8.9	9.1	13.5	13.6	t.f.	
8		9.6	13.9?	t.f.	n.s.	
9		9.6	t.f.	n.s.		
10		10.3				
11		10.4				
12		10.5				
13		10.5				
14		10.9				
15		11.2 11.1				
16		11.3 11.2				
17		11.5 11.4				
18		12.2 12.2				
19		12.6 12.5				
20		13.4 13.4				

wrong sequence measured.

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Monday December 13, 1915

Scale R

Series 569-

Card.

Mc 9574 Eros C.S. 1 58 +38.0

15s Overexposed. (See correction)

Alt. Corr. +22

Corr. for overexposure: +.02

BC

	Pc.1	Pc.2	Cw.		Magn		Diff. 9	h		Cw.	Magn	Pc.2	
1	B.		.	.			10.7	10.6	10.65	10 − 2.31	8.34	10.6? from	−2.36
2	6.4 6.1		2.42	2.53	8.93	8.82	11.7	11.8	11.75	±0 −2.68	9.07	12.2? from	−2.79
3	6.8 6.5		2.31	2.42	9.22	9.11	12.2	12.3	12.25	01 −2.65	9.60	t.f.	.
4	7.1 6.8		2.24	2.33	9.43	9.34	12.4	12.5	12.45	01 −2.65	9.88	t.f.	.
5	7.9 7.6		2.01	2.08	9.98	9.91	13.2	13.1	13.15	01 −2.68	10.52	t.f.	.
6	7.8 7.5	B.	2.04	2.11	9.91	9.84	13.2	13.1	13.15	01 −2.68	10.52	13.1	−3.06
7	8.3	8.7 8.65 01	1.81	1.86	10.51	10.46	t.f.	t.f.		.	.		
8		9.4	1.60	1.62	11.02	11.00	t.f.	t.f.		.	.		
9		9.4	1.60	1.62	11.02	11.00	n.s.	n.s.		.	.		
10		9.6	1.54	1.56	11.16	11.14							
11		10.6	1.32	1.30	11.90	11.92							
12		10.8	1.27	1.26	12.06	12.07							
13		10.8	1.27	1.26	12.06	12.07							
14		11.70 0.0 11.7 11.7	1.12		12.82								
15		11.60 ±1 11.5 11.7	1.13		12.73								
16		12.2	1.09		13.29								
17		12.50 ±1 12.4 12.6	1.08		13.58								
18		12.50 0.0 12.5 12.5	1.08		13.58								
19		13.15 ±0 13.1 13.2	1.08	1.10	14.25	13.23							
20		13.7 t.f.	1.18	1.25	14.95	14.88							

4 Cmn

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Scale R

Series 569-

Copied. Card

Mc 9575 Carte 2 - 23.5 Alt. -0.47

	sc.1	sc.2		Cw.	Magn	Diffr. Inn. g sc.2	Diffr. Inn. k sc.2		PC. sc.2	
1	B.			.		9.6	t.f.	-2.01 7.59	9.7	-2.08 7.62
2	6.1 5.8			2.60	8.70	11.4	t.f.	-2.51 8.89	t.f.	.
3	7.4 7.1	B.		2.22	9.62	t.f.	t.f.	.	t.f.	.
4	8.1 7.8	8.3	8.20 ± 1	1.98	10.18	t.f.	t.f.	.	t.f.	.
5	8.7 8.6	9.21	9.05 ± 2	1.72	10.77	t.f.	t.f.	.	n.s.	.
6	9.1 8.8	9.3	9.20 ± 1	1.69	10.89	t.f.	t.f.	.	n.s.	.
7	9.2 8.9	9.3	9.25 0 1	1.68	10.93	t.f.	t.f.	.		
8		9.8		1.51	11.31	t.	t.f.	.		
9		10.4		1.34	11.74					
10		10.5		1.32	11.82					
11		10.6		1.30	11.90					
12		11.3		1.18	12.48					
13	11.45 1 0 11.5	11.4		1.14	12.59					
14		11.5		1.14	12.64					
15	11.55 ± 0 11.5	11.6		1.13	12.68					
16	Inn. hazy	t.f.	t.f.	.	.					
17	12.35 0 1 12.4	12.3		1.09	13.44					
18	12.55 ± 0 12.5	12.6		1.08	13.63					
19	13.10 0 0 13.1	13.1		1.11	14.21					
20		13.4	t.f.?	1.15	14.55?					

PC's & Diffr. Inn. are large and hazy. Too difficult to compare with scale.

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Monday December 13. 1915

Card.

Scale R. Series 569. All Conn+11

MC 9576 Z Cephei 2 +80°

Var. Seq. → (not in centre of fld.)		sec.1	sec.2		Cm.	Magn	g sec.2	h sec.2	Cm.	Magn	QC. sec.2	Cm.	Magn
		7.4											
	α	7.1	Q.		2.23	9.63	t.p.	12.2	-2.64	9.56	12.4	-2.84	9.56
		8.4											
	a	8.1	8.1	8.25 2 1	1.97	10.22	t.p.	13.1	-2.67	10.43	13.3	-3.03	10.27
		8.6					13.35 1 0						
	b	8.3	8.8	8.70 1 1	1.84	10.54	13.3	13.4	-2.66	10.69	t.p.	.	.
		9.1											
	c	8.8	9.2	9.15 1 0	1.70	10.85	t.p.	13.4	-2.65	10.75	13.7	.	.
		9.1											
	d	8.8	9.2	9.15 1 0	1.70	10.85	t.p.	t.p.	.	.	13.9	.	.
		9.2											
	e	8.9	9.5	9.35 2 1	1.64	10.99	t.p.	t.p.	.	.	14.0	.	.
	f		10.1		1.42	11.52	~~t.~~ n.s.	~~t.~~ n.s.	.	.			
	f'		10.1		1.27	11.97							
	g		10.9		1.24	12.14							
	h		11.4		1.15	12.55							
			11.60 0 0										
	k		11.6	11.6	1.13	12.73							
			12.20 1 1										
	l		12.3	12.1	1.09	13.29							
			12.35 0 1										
	m'		12.4	12.3	1.08	13.43							
			13.10 0 0										
	n'		13.1	13.1	1.10	14.20							
			13.40 0 0										
	o'		13.4	13.4	1.15	14.55							
Var.			t.		.	.							
	tr		t.p.		.	.							

See also next page.

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Cardd

Scale R. Series 569 -

Mc 9576 Z Cephei cont.

Ref.	reg. for centre	pc.1	pc.2		Cw	Magn	q	h	Diff. Inv. Cw.	Magn	pc.2	D.C. Cw.	Magn
							10.35	1 0	pc.2				
1	B				.	.	10.3	10.4	- 2.23	8.12	10.5	- 2.31	8.19
							11.10 00						
2	B				.	.	11.1	11.1	- 244	8.66	10.9	- 243	8.47
	6.4						11.35	1 0					
3	6.1				2.53	8.93	11.3	11.4	- 2.50	8.85	11.6	- 264	8.96
	6.4												
4	6.1				2.53	8.93	11.5	t.p.	- 268	8.97	11.6	- 264	8.96
	7.4						12.30	1 1	12.4				
5	7.1	B			2.23	9.63	12.2	12.3	- 28x	9.65	12.7	- 290	9.80
	8.7						13.20 00						
6	8.4	8.6	8.65	1 0	1.86	10.51	13.2	13.2	-267 -302	10.53	t.p.	,	,
	9.0						13.40 00						
7	8.7	9.0	9.00	0 0	1.74	10.74	13.4	13.4	-265 -306	10.75	t.p.	,	,
	8.9												
8	8.6	9.1	9.00	1 1	1.74	10.74	t.p.	13.3	- 266	10.64	13.9	,	,
9		9.3			1.66	10.96	13.7	t.p.	- 261	11.09	∫.	,	,
10		10.1			1.42	11.52	n.s.	n.s.	,	,			
11		9.6			1.56	11.16							
12		10.2			1.40	11.60							
13		10.7			1.28	11.98							
14		10.8			1.25	12.05							
15		10.9			1.24	12.14							
		11.6 0 0											
16		11.6	11.6		1.13	12.73							
		12.2 0 0											
17		12.2	12.2		1.09	13.39							
		12.4 0 0											
18		12.4	12.4		1.09	13.49							
		13.1 0 0											
19		13.1	13.1		1.10	14.20							
		13.5 5 0	1										
20		13.6	13.5		1.20	14.75							

Growing darker during observations.

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Monday December 13, 1915

Card

Scale R

Series 569.

mc 9577 Error 0.8. + 2 15 + 52.5 Alt. Corr. +.22

	sc.1	sc.2		Cw	Magn	Diff. Inv. sc.2	sc.2	Cw	Magn	sc.2	Cw	Magn
1	B			.	.	11.1	11.1	11.10 00	-.244	8.66	10.9	-.243	8.47
2	B.			.	.	11.2	11.1	11.15 0 1	-.246	8.69	10.9	-.243	8.47
3	6.3			.247	9.07	11.5	11.5	11.50 00	-.253	8.97	11.6	-.264	8.96
4	6.4			.245	9.15	11.5	11.6	11.55 1 0	-.254	9.01	11.8	-.269	9.11
5	6.5	B.		.242	9.22	t.f.	12.1		-.264	9.46	12.2	-.279	9.41
6	7.6	7.9	790 00	.208	9.98	12.6	12.9	12.75 2 1	-.268	10.07	t.f.	.	.
7	8.2	8.5	860 1 1	.186	10.46	13.4	13.3	13.35 0 1	-.265	10.70	13.4	-.306	10.34
8	8.9	9.2	925 0 1	.168	10.93	13.9	t.f.		-.258	11.32	t.	.	.
9		9.5		.160	11.10	t.	13.7		-.261	11.09			
10		9.9		.148	11.38		t.		.	.			
11		10.6		.130	11.90								
12		10.7		.127	11.97								
13		11.2		.118	12.38								
14		11.4		.115	12.55								
15		11.7	11.70 00 11.7	.113	12.83								
16		11.7	11.80 1 1 11.9	.112	12.92								
17		12.3	12.25 1 0 12.2	.109	13.34								
18		12.5	12.50 00 12.5	.108	13.58								
19		12.8	12.80 00 12.8	.108	13.88								
20		13.4	13.35 0 1 13.3	.114	14.49								

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Monday December 13, 1915.

Scale R. Series 569. Card.

Mcg 573 ngc 752 1 48 +37.5 Alt. Corr. +.22

	sc.1	sc.2	Cw.	Magn.	Diff. Im. sc.2	sc.2	Cw		P.C. sc.2	Cw	
1	B.		.		10.3	10.4	10.35	1 0	-2.23	8.12	10.5 - 2.31 8.19
2	B		.		11.2	11.2	11.20	0 0	-2.46	8.74	11.2 - 2.51 8.69
3	6.7 6.4		2.45	9.15	t.f.	t.f.		,	,		12.1 - 2.77 9.33
4	7.8 7.5	B.	2.11	9.91	12.5	12.5	12.50	0 0	-2.67	9.83	12.8 - 2.93 9.87
5	8.6 8.3	8.5 8.55	0 1 1.88	10.43	13.3?	t.f.			-2.66	10.67	13.3 - 3.03 10.27
6	9.6		1.57	11.17	13.5	13.7	13.60	1 1	-2.62	10.98	.
7	9.9		1.48	11.38	n.s	f.		,	,		
8	10.6		1.30	11.90							
9	11.4		1.15	12.55							
10	12.00 12.1	11.9	1 1 1.10	13.10							
11	12.25 12.2	12.3	0 1 1.09	13.34							
12	13.20 13.2	13.2	0 0 1.12	14.32							
13	13.65 13.7	13.6	1 0 1.23	14.88							
14	f.	f.	,	.							
15	f.	f.	,	,							

Should have been recorded on fr. 7.65

1915phae.proj.10710

Saturday December 18, 1915.

Scale V

B Series 50.

B 45561 C11

	B	C	Diff.		B 45566 +82	P.C.	Diff.	B 45566 +82	Diff.
	RC 2	RC 3				RC 1 RC 3			
1	2.7					11	−9.89	75	7.60 1 −0.69
2	2.8		2.80 1 1	4.28	4.38	2.9	Cut off focus.	7.6	7.60 2 −0.52
3	3.1		3.20 0 0	4.47	4.47	3.2	8.6	−0.93	8.4 8.50 1 −0.83
4	3.2		3.25 1 0	4.66	4.61	3.2	8.8	−0.99	8.2 8.50 3 −0.59
5	3.8		3.95 1 0	4.35	4.40	4.0	9.2	−0.90	9.20 2 −0.90
6	4.1	B.	4.20 0 0	4.26	4.26	4.2	9.4	−0.94	8.8 9.10 3 −0.64
7	4.6	5.0	4.88 1 2	3.95	3.83	4.75	9.5	−0.67	9.5 9.50 0 −0.67
8	4.6	5.0	4.85 0 0	4.18	4.18	4.85	9.8	−0.77	9.7 9.75 0 −0.72
10	5.21	5.2	5.22 0 3 0 2	4.23	4.20	5.20	∫.	.	7 , , ,
12	5.7	5.9	5.78 0 7 0 8	4.07	3.99	5.70	∫.n.s.	.	, , , ,
14	6.1	6.1	6.15 0 0 0 0	3.82	3.82	6.15			
15	6.3	6.6	6.55 0 5 0 5	3.85	3.90	6.60			
16	6.6	6.7	6.78 0 8 0 7	3.92	4.00	6.85			
17	6.9	6.8	7.05 1 5 1 5	3.97	4.12	7.20			
20		7.5	7.55 1 0	3.84	3.89	7.6			
23		7.9 room	8.00 1 0 1 0	3.86	3.99	8.10			
24		8.1	8.12 0 2 0 3	4.28	4.30	8.15			
25		8.3	8.25 0 5 0 5	4.32	4.27	8.20			
26		9.2	9.18 0 2 0 3	3.72	3.70	9.15			
27		9.15 1 0 9.1 9.2	9.12 0 3 0 2	4.02	3.99	9.10			
28		9.35 1 0 9.3 9.4	9.32 0 3 0 2	4.05	4.04	9.30			
29		9.50 0 0 9.5 9.5	9.45 0 5 0 5	4.12	4.07	9.40			
30		10.1 0 0 10.1 10.3	9.80 3 0 3 0	4.17	3.87	9.5			
31		10.05 0 1 10.0 10.1	9.98 0 7 0 8	4.30	4.23	9.9			
32		∫ ∫							
33		∫.							

Nos. 9, 11, 13, 18, 19, 21, 22 omitted. H.S.L.

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Saturday December 18, 1915

Scale ✓

B Series 50.

B 45561 C11 cont. Diffr. Ins.

	g sc.1	g sc.2	h sc.1	h sc.2	Diff	B45566 − B45561		Diff
1			6.1		0.71	.	6.20 a.	0.61
2	+f.		6.3 6.2 6.8		0.88	6.4	6.35 1 0	0.73
3			6.7		0.87	.	6.80 a.	0.87
4	all			7.2 s.f.	0.71	7.3	7.25 0 1	0.66
5	bb			7.6	0.70	7.5	7.55 0 1	0.75
6	poor			7.7	0.76	7.4	7.55 1 2	0.91
7				7.8	1.03	7.8	7.80 0 0	1.03
8				8.1	0.93	8.1	8.10 0 0	0.93
10				8.5	0.95	8.3	8.40 1 1	1.05
12				9.2	0.65	9.1	9.15 0 1	0.70
14				9.3	0.67	9.2	9.25 1 0	0.72
15				9.6	0.80	9.4	9.50 1 1	0.90
16				f	.	10.0	10.00 . a.	0.70
17				n.s.	.	9.5	. .	

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Saturday December 18, 1915.

Scale 5 B Series 50 Copied 27:84

B 4556 2 D11. 21 −15° Att. corr. +.07

P.C.

		Rc 1	Rc 2		Cw.	Magn	Rc 1	Rc 2		
Out of focus.	1	.			.	.	7.7?	− 0.70	7.00?	
Out of focus. Edge.	2	.			.	.	.	.	.	
" "	3	.			.	.	.	.	.	
	4	3.5 3.4			4.48	7.98	t.p.	.	.	
	5	3.1 3.0			4.59	7.69	t.p.	.	.	
" "	6	.			.	.	.	.	.	
	7	3.2 3.1			4.54	7.74	8.5	− 0.70	7.80	
	8	t.p.			.	.	8.5	− 0.70	7.80	
	9	3.5 3.4 5.6			4.48	7.98	9.3	− 0.70	8.60	
" "	10	3.2 3.1?			4.54	7.74	9.1	− 0.70	8.40	
	11	3.7 3.6			4.42	8.12	9.4	− 0.70	8.70	
	12	3.8 3.1	B.		4.40	8.20	9.1	− 0.69	9.01	
	13	4.2 4.1	4.1	4.15 0 1	4.32	8.47	def?	what's oft?	.	
Inv. elong.	14	5.2 5.1?	.		4.11	9.31	10.1	.	.	
	15	5.3 5.2	5.5	5.40 1 1	4.08	9.38	f	.	.	
	16	5.3 5.2	5.6		4.11	9.41	f.	.	.	
	17	t.p	t.p.		.	.				
	18	t.p.	t.p.		.	.				
	19	5.7 5.6	6.1	5.90 2 2	4.01	9.91				
	20	6.2 6.1	6.1	6.15 0 1	3.97	10.12				
	21	6.2 6.1	6.3	6.25 0 1	3.96	10.21				
	22	6.2 6.1	6.3	6.25 0 1	3.96	10.21				
	23	6.8 6.7	7.1	6.95 2 1	3.90	10.85				
	24	6.4 6.3	6.5	6.45 0 1	3.94	10.39				
	25	6.9 6.8	7.1	7.00 1 1	3.90	10.90				
	26		7.3		3.91	11.21				

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Saturday December 18, 1915

Scale 5

B Series 50

B 4556 2 D 11 cont.

	sc.1	sc.2	sc.3	Cw.	Magn
		7.65 1 0			
27	7.7	7.65 1 0	7.6	3.95	11.60
28	7.7		7.6	3.95	11.60
29	t.h.		7.9	3.98	11.88
		8.30 1 1			
30	8.2		8.4	4.04	12.34
		8.75 0 1			
31	8.8		8.7?	4.06	12.81
		8.70 0 0			
32	8.7		8.7	4.05	12.75
		8.60 1 1			
33	8.5		8.7	4.04	12.64
		9.10 0 0			
34	9.1		9.1	4.10	13.20
		9.15 1 0			
35	9.1		9.2	4.10	13.25
		9.55 1 0			
36	9.5?		9.6? from	4.14	13.69
		9.75 1 0			
37	9.7		9.8? v.f.	4.15	13.90
38	t.h.				
39	t.h.				

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1915phae.proj.10710

Saturday December 18, 1915

Scale √ B Series 50. Objct 27:84

B45562 D11 Diffr. Im. alt. core. +.07

	g sc.1 sc.2	h sc.1 sc.2		
1	.	.	.	
2	.	.	.	
Out of focus 3	.	.	.	
" " 4	.	.	.	Cu Magn
5	.	6.9 6.6 ~~6.6~~	0.94	0.77 7.47
" " 6	.	.	.	. .
7		6.7	1.16	0.77 7.47
8		6.6 6.4	1.27	0.74 7.24
9		7.2	1.06	0.84 8.04
10		7.3?	1.08	0.85 8.15?
11		7.4	1.05	0.87 8.27
12		t.p.	.	. .
13		8.1	1.03	0.94 9.04
14		8.1	1.31	0.94 9.04
15		9.1	0.71	0.89 9.99
16		8.8	1.02	0.91 9.71
17		9.4	0.64	0.84 10.24
18		9.7	0.50	0.79 10.49
19		9.4	0.81	0.84 10.24
20		9.6	0.75	0.81 10.41
21		9.7	0.74	0.79 10.49
22		t.p.	.	. .
23		↓	.	. .

g diffr. images - all too poor.

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Saturday December 18, 1915

Scale

Copied 34.76

B Series 50

B 45563 | 184 K | 20 50 - 44.8 | Alt. +.02

Diffr. Inm. | P.C.

	sc.1	sc.2		Cw.	Magn	h sc.2	m sc.2	Cw.	Magn	sc.2	Cw.	Magn
1	3.4 3.3	B.		4.50	7.90	6.1	t.p.	0.67	6.77	7.1	- 0.70	7.00
2	4.9 4.8	4.9	4.90 0 0	4.38	9.28	7.65 10 7.1	7.6?	0.89	8.54	9.4	- 070	8.70
3	5.6 5.5	5.5	5.55 0 1	4.06	9.61	8.1	t.p.	094	9.04	9.9	- 069	9.21
+	6.3 6.21	6.5	6.40 1 1	3.95	10.35	t.p.	9.1	0.89	9.99	n.s.	,	,
5	6.9 6.8	7.1	7.00 1 1	3.90	10.90	10.00 00 10.0	10.0	0.74	10.74			
6		7.2		3.90	11.10	n.s.	n.s.	.	,			
7		7.6		3.94	11.54							
8		8.3		4.01	12.31							
9		8.5		4.04	12.54							
10		8.6		4.05	12.65							
11		8.7	9.1 8.90 2 2		4.08	12.98						
12		9.2	9.2 9.20 0 0		4.10	13.30						
13		9.3	9.4 9.35 1 0		4.13	13.48						
14		9.4	9.4 9.40. 0 0		4.13	13.53						
15		10.0	9.9 9.95 0 1		4.18	14.13						

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1915phae.proj.10710

Saturday December 18, 1915

Scale 5

B Series 50 Cofact 24.29

~~7h15~~ 45564 137 K 21 11-14.8 +.08

Diffr. Inn. O.C.

	Dec.	ecz	sez		Cw.	Magn	secz	secz	Cw.	Magn	secz	Cw.	Magn
	37												
01	3.6	B.			4.42	8.12	t.f.	7.1	0.82	7.92	8.6	-0.70	7.90
	49												
02	4.8	4.9	4.90	0 0	4.17	9.07	t.f.	7.6	0.89	8.49	9.3	-0.70	8.60
	57												
03	5.6	5.7	5.70	0 0	4.04	9.74	t.f.	8.5	0.94	9.44	9.7	-0.69	9.01
	63						9.10	00					
04	6.21	6.1	6.20	1 1	3.97	10.17	9.1	9.1	0.89	9.99	‡	.	.
	64												
05	6.3	6.6	6.50	1 1	3.94	10.44	t.f.	9.3	0.86	10.16	‡	.	
06		7.3			3.91	11.21	‡	‡	.				
07		7.4			3.93	11.33							
08		7.7			3.95	11.65							
09		7.7			3.95	11.65							
010		7.6			3.95	11.55							
011		8.5	8.6	8.55 1 0	4.04	12.59							
012		8.2	8.4	8.30 1 1	4.01	12.31							
013		8.9	8.8	8.85 1 0	4.07	12.93							
014		9.1	9.1	9.10 0 0	4.10	13.20							
015		9.2	9.3	9.25 0 1	4.0	13.35							

The abm sequence is not that originally selected. See re-measures, with original sequence, O 24.200

Star 12 slightly brighter than 11.

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1915phae.proj.10710

Saturday December 18, 1915.

Scale V

B Series 50. Copied 27:190

B4556 5 F3 20-75° -.32

P.C.

	sc.1	sc.2		Cw.	Magn	sc.1 sc.2	Cw.	Magn
1	.			.		t.p.	.	.
2	.			.		t.p.	.	.
3	t.p.			.		8.3	-0.70	7.60
4	.			.		t.p.	.	.
5	39 3.8			4.38	8.28	8.5	-0.70	7.80
6	42 4.1			4.31	8.51	8.8	-0.70	8.10
7	42 4.1			4.31	8.51	8.8	-0.70	8.10
8	4.2 4.1			4.31	8.51	8.9	-0.70	8.20
9	48 4.7	~~4.9~~	485 0 1	4.17	902	9.4	-0.70	8.70
10	44 4.3	4.2	430 1 1	4.30	8.60	9.2	-0.70	8.50
11	48 4.7	5.0	490 1 1	4.16	9.06	? (do not find P.C.)		.
12	4.8 4.7	5.0	490 1 1	4.16	9.06	9.2	-0.70	8.50
13	5.0 4.9	5.1	505 0 1	4.14	9.19	9.5	-0.69	8.81
14	5.2 5.1	5.5	535 2 1	4.09	9.44	9.6	-0.69	8.91
15	5.8 5.7	5.7	575 0 1	4.06	9.81	n.s.	.	.
16	5.7 5.6	5.6	565 1 0	4.04	9.69			
17	6.2 6.1	6.1	615 0 1	3.98	10.13			
18	6.2 6.1	6.1	615 0 1	3.98	10.13			
19	6.3 6.2	6.2	625 1 0	3.96	10.21			
20	66 6.5	6.6	660 0 0	3.93	10.53			
21	69 6.8	7.1	700 1 1	3.90	10.90	n.s.		
22	69 6.8	7.1	700 1 1	3.90	10.90			
23		7.1		3.90	11.00			
24		7.2		3.90	11.10			
25		7.6		3.95	11.55			
26		7.8		3.97	11.77			

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1915phae.proj.10710

Saturday, December 18, 1915

Scale V

B Series 50.

B 45565 F3 cont. −.32

	se.2	Cw	Magn
27	7.8	3.97	11.77
28	7.8	3.97	11.77
29	8.1	3.99	12.09
30	8.1	3.99	12.09
31	8.6	4.04	12.64
32	9.2	4.10	13.30
33	9.1	4.09	13.19
34	9.1	4.09	13.19
35	8.8	4.16	12.86 ~~13.96~~
36	9.3?	4.12	13.42?
37	7.	.	.
38	m²	.	.

Star 35 looked up. Apparently a mistake of a unit. Assume scale reading 8.8.

W. S. A. July 29, 1916

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1915phae.proj.10710

Saturday December 18, 1915

Scale V

B series 50 – Copied 27: 190

B 45565 | F3 | Diffr. Im. | −.32

	sc1	sc2	sc1	sc2		
1	.		.			
2	.		.			
3	t.f.		t.f.		.	
4	t.f.		t.f.		.	
5	t.f.		t.f.		.	
6	t.f.		7.3		0.85	8.15
7	t.f.		t.f.		.	
8	t.f.		t.f.		.	
9	t.f.		t.f.		.	
10	t.f.		t.f.		.	
11	t.f.		t.f.		.	
12	t.f.		t.f.		.	
13	t.f.		t.f.		.	
14	8.2	7 820 00	8.2		0.94	9.14
15	8.6	860 00	8.6		0.92	9.52
16	t.f.		t.f.		.	
17	t.f.		8.7		0.91	9.61
18	t.f.		t.f.		.	
19	9	39.30 00	9.3		0.85	10.15
20	9.3		Surf.		0.85	10.15
21	t.f.		9.5		0.82	10.32
22	t.f.		9.4		0.84	10.24
23	t.f.		9.6		0.80	10.40
24	⊥		⊥		.	.

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1915phae.proj.10710

Saturday December 18, 1915

Scale 5

B45566 C11 21 + 15°

O.C.

	sc.1	sc.2		Diff.	sc.1	sc.2	Diff.
1	B.			.	7.5		-0.69
2	29 2.8			4.18	7.6		-0.52
3	32 ~~B~~ 3.1			4.47	8.4		-0.73
4	32 3.1			4.71	8.21		-0.29
5	40 3.9			4.30	t.f.		.
6	42 4.1	B.		4.26	8.8		-0.34
7	47 4.6	4.8	4.75 1 0	4.08	9.5		-0.67
8	49 4.8	4.8	4.85 1 0	4.18	9.1		-0.67
10	5.2 5.1	5.2	5.20 0 0	4.24	t.		.
12	5.7 5.6	5.7	5.70 0 0	4.15	n.s.		.
14	6.2 6.1	6.1	6.15 0 1	3.82			
15	6.5 6.4	6.7	6.60 1 1	3.80			
16	6.8 6.7	6.9	6.85 0 1	3.85			
17		7.1	7.3 7.20 1 1	3.82			
20		7.6		3.79			
23		8.1	8.1 8.10 0 0	3.76			
24		8.2	8.1 8.15 0 1	4.25			
25		8.1	8.3 8.20 1 1	4.37			
26		9.1	9.2 9.15 1 0	3.75			
27		9.1	9.1 9.10 0 0	4.04			
28		9.2	9.4 9.30 1 1	4.09			
29		9.3	9.5 9.40 1 1	4.17			
30		9.5?	t.f.	4.47			
31		9.9	~~t~~	4.38			
32		n.s.	n.s	.			

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Saturday December 18, 1915

Scale V

C series 50.

	B 45566		C 11 cont.	Diff. Inv.
	g	h		
	sc 1 sc 2	sc 1 sc 2	Diff	
1	t.f.	t.f.	.	
2	t.f.	64 63	0.68	
3	t.f.	t.f.	.	
4	t.f.	7.3	0.61	
5	t.f.	7.5	0.80	
6	t.f.	7.4	1.06	
7	t.f.	7.8	1.03	
8	t.f.	8.1	0.93	
10		8.3	1.15	
12		9.1	0.75	
14		9.2	0.77	
15		9.4	1.00	
16		10.0	9.70	
17	t.f.			
20				
23				
24				
25				
26				

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1915phae.proj.10710

Thursday January 6 - 1915

Scale R
1:30

Remeasures of plates in Kapteyn regions

Mc 3985 Pole.

	sc.1	sc.2	sc.2
17	~~sc.1~~	10.6	10.7
18		11.2	11.2
19		11.6	11.7
20		11.8	11.9
23		12.4	12.5
25		13.1	13.3 ~~11.9~~
26		13.4	13.5
27		13.8	13.9
28		〃	〃
29		n.s.	n.s.
30			

Mc 3990 Pole.

sc.2	sc.2	Mean	Diff.
10.2	10.3	10.45 23 ±1	1.18
10.8	10.9	11.05 22 ±1	1.04
11.3	11.4	11.50 12 ±1	0.92
11.8	11.8	11.82 0100	0.91
12.8	12.9	12.65 ±123	0.69
13.4	13.3	13.28 ±010	0.59
13.5	13.6	13.50 ±001	0.83
〃	〃	13.85 01..	0.84
n.s.	n.s.		

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1915phae.proj.10710

Thursday January 6, 1916

Scale R Remeasures of stars in Kapteyn regions

MC 3987. 112 K. alt. corr. +.06

	sc. 2	Dec. 2	Mean	Curve	Magn.
10	11.3	11.4	11.35 ±0	0.96	12.31
11	12.1	12.2	12.15 ±0	0.80	12.95
12	12.2	12.2	12.20 00	0.79	12.99
13	12.8	12.7	12.75 0±	0.74	13.49
14	13.5	13.5	13.50 00	0.77	14.27
15	13.7	13.7	13.70 00	0.80	14.50
16	?	?		.	.
very ft 17	14.0?	14.1?	14.05? 0!	.	.

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1915phae.proj.10710

Thursday January 6, 1916.

Scale Remeasures of stars in Kapteyn regions.

MC 4172 Pole -

	sc 7	sc 2	mean	Diff.
17	10.2	10.2	10.20 00	1.43
18	10.7	10.8	10.75 ±0	1.31
19	11.1	11.2	11.15 ±0	1.27
20	11.2	11.3	11.25 01	1.48
23	11.8	12.2	12.00 ±2	1.34
25	12.4	12.4	12.40 00	1.47
26	12.5	12.7	12.60 ±1	1.73
27	13.2	13.3	13.25 01	1.44
28	13.5	13.4	13.45 ±0	1.66
29	13.6	13.5	13.55 01	2.11
30	13.8	13.9	13.89 01	2.15
31	14.0	14.0	14.00 00	2.22
32	n.s.	n.s.		

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Thursday January 6. 1916.

Scale R Remeasures of stars in Kapteyn regions.
Mc 4173 112 K. Alt. corr. +.06

	sc.x	sc.x	Mean	Curve	Magn.
10	11.3	11.3	11.30 00	1.38	12.68
11	11.8	11.9	11.85 01	1.45	13.30
12	11.8	11.6	11.70 11	1.42	13.12
13	12.3	12.2	12.25 10	1.52	13.77
14	12.7	12.7	12.70 00	1.65	14.35
15	13.3	13.2	13.25 10	1.88	15.13
16	13.4	13.6	13.50 11	2.00	15.50
17	13.7	13.7	13.70 00	2.10	15.80

12 appears slightly brighter than 11.

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1915phae.proj.10710

Thursday January 6-1916

Scale R Remeasures of Stars in Kapteyn regions

Mc5925 Pole. Mc5931 Pole.

	Dec 2	Dec 2	Dec 2	Dec 2	Mean	Diff.
17	9.1	9.0	9.6	9.6	9.32 ± 3 33	2.31
18	9.9	~~10.1~~ 9.8	10.2	10.2	10.02 ± 3 22	2.04
19	10.21	10.21	10.5	10.6	10.38 ± 3 12	2.04
20	10.8	10.9	11.21	10.9	10.95 ± 1 21	1.78
23	11.3	11.4	11.5	11.7	11.48 ± 1 02	1.86
25	12.3	12.3	12.3	12.3	12.30 0000	1.57
26	12.7	12.5	12.8	12.8	12.70 0 ± 11	1.63
27	12.8	12.8	def?	def?	12.80 00..	1.89
28	~~11.0~~ 13.1	from 13.1?	13.4	13.5	13.28? ± 02 12 13.45 (3.2) 01	1.83?
29	~~11.~~	~~11.~~	~~11.~~	~~11.~~		
30		n.s.				

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Thursday January 6-1916

Scale R Remeasures of stars in Kapteyn Regions

Mc 5929 112 K. alt. corr. +06

	sc.2	sc.1	Mean	Curve	Magn.
10	10.5	10.7	10.60 ±1	1.93	12.53
11	11.6	11.4	11.50 ±2	1.79	13.29
12	11.4	11.3	11.35 ±1	1.80	13.15
13	11.9	11.9	11.90 ±0	1.76	13.66
14	12.4	12.6	12.50 ±1	1.74	14.24
15	~~12.4~~?	scr.	·	·	·
16	13.4	13.4	13.40 ±0	1.88	15.28
17	13.4	13.6	13.50 ±1	·	·

scratch thru image

2:50

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1915phae.proj.10710

Tuesday January 11, 1916.

Shot no 29

Scale N 1:30. Scale measures of H.S. Regions.

Am 6585 J' 23 +15° C12.

	sc.B	sc.C.	Diff	Cu	Magn
	2.7	2.90 22			
1	3.1	3.1	3.70	3.53	6.43
	3.5	3.80 33			
2	3.9	4.1	3.19	3.30	7.10
	4.0	4.20 22			
3	4.4	4.4	3.08	3.18	7.38
	4.7	4.90 32			
4	5.1	5.1	2.66	3.00	7.90
	5.0	5.05 01			
5	5.4	5.1	2.79	2.97	8.02
	5.1	5.20 11			
6	5.5	5.3	3.02	2.92	8.12
	5.4	5.50 11			
7	5.8	5.6	2.93	2.83	8.33
	5.7	5.65 10			
8 18	6.1	5.6	2.95	2.80	8.45
	6.7	6.45 32			
9 19	7.1	6.2	2.56	2.53	8.98
	6.7	6.65 10			
10	7.1	6.6	2.34	2.46	9.11
	6.9	6.85 10			
11	7.3	6.8	2.46	2.35	9.20
		7.60 00			
12	1.6	1.6	2.01	2.00	9.60
		9.95 12			
13	8.1	1.8	1.85	1.86	9.81
	8.1	8.10 00	81		
14	8.1	8.1	1.75	1.82	9.92
		7.80 00			
15	1.8	1.8	2.05	1.93	9.73
		9.00 11			
16	9.1	8.9	1.38	1.50	10.50
		9.20 00			
17	9.21	9.2	1.45	1.46	10.66
17a	f.	f.			
		10.00 00			
18	10.0	10.0	1.30	1.30	11.30
19	f.	f.			
20	n.s.	n.s.			
21					
21a					
22					
23					

Images poor. ft stars do not compare with scale.

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1915phae.proj.10710

Tuesday January 11, 1916 -

Copied 1327:172

Scale N Scale measures of st. C. Regions.

Am 6585 89 22 40-45°

	as B	as C.	Cu	Magn
1	3.7 4.1		3.34	7.04
2	t.f.			
3	t.f.			
4	4.2 4.6	4.35 ±1 4.5	3.13	7.48
5	4.7 5.1	4.65 ·10 4.6	3.05	7.70
6	4.4 4.8	4.45 ·01 4.5	3.10	7.55
7	5.7 6.1	5.65 ·10 5.6	2.80	8.45
8	5.7 6.1	5.60 ·10 5.6	2.80	8.45
9	6.7 7.1	6.85 ·12 6.4	2.48	9.03
10	6.7 7.1	6.80 ·22 6.3	2.50	9.00
11	6.7 7.1	6.65 ·12 6.4	2.48	9.03
12	7.2 7.6	7.0 7.4 6.6 6.8	2.30	9.20
13	7.0 7.4	6.70 ±1 6.90 ·20 6.7 6.85 ·21	2.35	9.20
14	7.3 7.7	7.5 7.40 ±1	2.08	9.48
15	7.3 7.7	7.2 7.25 ·10	2.15	9.40
16		8.1	1.82	9.92
17		~~9.1~~ t.f.		
18		8.4	1.70	10.10
19		8.6	1.63	10.23
20		9.3	1.42	10.72
21		9.5	1.38	10.88
22		9.7	1.34	11.04
23		n.s.		

Im elong!

Images elongated. 1st plate poor.

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1915phae.proj.10710

Wednesday January 12, 1916

Scale P. 10;25 — Sc. measures of A plates (for abs. magn.) A 11401 — D, 10 –

		Sc. 1	Sc. 2	P.C. Sc. 1	P.C. Sc. 2
off plate	1			.	
	2			66?	
	3			7.5	
" "	4			.	.
	5			7.8	
	6			7.5	
	4			~~7.1~~ 7.1	
	8			. not comp.	
	9			8.4	
	10			7.8	
	11	B.		7.7	
	12	B.		8.1	
	13	B.	B.	8.8	
	14	3.5	B.	9.3	
	15	5.1	5.1	m.s.	
	16	B.	B.	9.8	
	17	4.8	4.6	m.s.	
	18	4.3 poor	B.	10.0	
	19	5.1	4.9	m.s	
	20	5.6	5.4	f.	
	21	5.1	5.1		
	22	fp.	5.3		
	23	5.3	5.1		
	24	5.1	5.3		
	25	6.5	6.4		
	26	6.1	6.4		

All P.C.'s elongated.

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1015phec.proj.10710

Wednesday January 12, 1916

Scale P Sc. measures of A plates.

A 11401 D 10 -

	sc.1	sc.2
27	6.1	5.9
28	6.3	6.3
29	6.7	6.6
30	6.8	6.8
31		7.1
32		7.3 7.4
33		8.4 8.2
34		8.5 8.4
35		8.6 8.5
36		9.4 9.4
37		9.8 9.8
38		10.0 10.0?
39		m.s. m.s.
8		8.8

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1915phae.proj.10710

Wednesday January 12, 1916 -

Scale P Sc. measures of A plates - for abs. magn.

A 11401 D10 Diffr. Im.

		g sc.1	g sc.2	h sc.1	h sc.2
off plate	1	.		-	
Out of focus	2	.		.	
" "	3	.		.	
	4	.		-	
" "	5	.		.	
	6	t.p.		t.p.	
" "	7	.		.	
	8	.		.	
" "	9	.		.	
" "	10	.		.	
" "	11	.		.	
	12		t.p.		t.p.
	13		t.p.		6.9
	14		7.2		7.1
	15		9.2		9.4
	16		8.1		7.8
	17		9.3		9.2
	18		8.6		8.6
	19		9.4		9.3
	20		7.		10.0
	21		t.p.		9.5
	22		m.s.		m.s.

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1915phae.proj.10710

Wednesday January 12, 1916.

Scale P. Sc. measured of A plates.

A 11402 F3 20 – 75°

		sc.1	sc.2		sc.1	sc.2
off pl.	1	.			.	
" "	2	.			.	
" "	3	.			.	
" "	4	.			.	
	5	B			7.6	
	6	B			7.8	
	7	B			7.7	
" "	8	.			.	
" "	9	.			.	
	10	3.0	2.7		t.p.	
off plate	11	.			.	
	12	B.			8.1	
	13	Edge.			8.9	
	14	3.4	3.1		9.7	
	15	3.1	3.4		9.8	
	16	3.1	3.4 B		9.8	
	17	4.4	4.1 4.15 ± 0 4.2		m.s.	
	18	4.0	3.7 3.95 ± 2 4.2		m.s.	
	19	4.4	4.1 B.		def?	
	20	4.7	4.4 4.50 ± 1 4.6		m.s.	
	21	5.1	4.8 4.95 ± 1 5.1			
	22	5.2	4.9 4.90 00 4.9		m.s.	
	23	5.4	5.1 5.15 ± 0 5.2			
	24	5.1	5.4 5.40 00 5.4			
	25	5.6	5.3 5.35 ± 0 5.4			
	26	6.5	6.21 6.40 ± 2 6.6			

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1915phae.proj.10710

Wednesday January 12, 1916

Scale P

Scale measures - obs. magna.

Q 11402 73 cont.

		sc.1	sc.2	
		5.8	6.50	3:2
27	6.1		6.21	
		6.3	6.45	1:2
28	6.6		6.6	
		6.5	6.70	3:2
29	6.8		6.9	
		6.4	6.65	1:3
30	6.7		6.9	
		sc.2		
31	~~7.1~~ 7.40		7.4	0 0
32	8.3	8.35	8.4	1 0
33	8.4	8.40	8.4	0 0
34	8.6	8.55	8.5	0 1
35	8.6	8.70	8.8	1 1
36	8.9	8.90	8.9	0 0
37	9.5	9.50	9.5	0 0
38	9.6	9.60	9.6	0 0
39	9.7	9.75	9.8	1 0
Ident. uncertain	40	?	?	
	41	≠		
	42	n.s.		

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1915phae.proj.10710

Wednesday January 12, 1916—

Scale P Scale measures for abs. magns.

A 11402 f3 20-75°

		g sc.1	g sc.2	h sc.1	h sc.2
off fil.	1	.		.	
"	2	.		.	
"	3	.		.	
"	4	.		.	
	5	B		B	
	6	5.9 6.2	5.95 : 0	6.0 6.3	
	7	B		B	
	8	.		.	
"	9	.		.	
	10	6.1 6.4	6.10 00	6.1 6.4	
"	11	.		.	
	12	t.fr.		t.fr.	
	13	t.fr.		t.fr.	
	14	7.2		t.fr.	
	15	7.6	7.60 00	7.6	
	16	7.7		t.fr.	
	17	8.3	8.35 : 0	8.4	
	18	8.6	8.55 0:	8.5	
	19	8.7		t.fr.	
	20	8.6	8.55 0:	8.5 hazy.	
	21	9.7	9.60 1:	9.5	
	22	t		t.	
	23				
	24				

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Wednesday January 12, 1916.

Scale P Scale measures - for abs. magns.

A 11403 E8 20-45°

			P.C.	
	sc.1		sc.1	sc.2
1	B.		7.6	
2	B		7.4	
3	B		7.7	
4	B.		7.2	
5	B.		7.7	
off plate. 6	.		.	
7	B.		7.4	
8	.		7.9	
9			7.8	
10	B.		8.5	
11	B.		8.6	
12	3.0 8.3		8.4	
13	~~8.4~~ 8.1		8.1	
14	B.		8.9	
15	3.5 3.8		9.4	
16	3.3 3.6		9.2	
17	3.6 3.7		9.6	
18	t.f.		9.7	
19	4.6 4.8		n.s.	
20	4.6 4.9	B.		
21	4.8 5.1	4.8 7.8000	n.s.	
22	5.0 5.3	5.10 11 5.2		
23	t.f.	5.8		
24	5.8 6.1	6.00 32 6.2		
25	6.1 6.4	6.25 12 6.4		
26	6.3 6.6	6.50 32 6.7		

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1915phea.proj.10710

Wednesday January 12, 1916 –

Scale P Seale measures – for abs. magn.

A 11403 E8

	sc 1	sc 2
	6.6	6.85 ± 3
27	6.9	7.1
	6.5	6.80 ± 3
28	6.8	7.1
29	7.5	
30	7.6	
31	7.7	7.70 ± 0 7.7
32	7.9	7.90 ± 0 7.9
33	8.3	8.35 ± 0 8.4
34	8.7	8.75 ± 0 8.8
35	9.2	9.20 ± 0 9.2
36	def.	def.
37	9.9	9.85 ± 0 9.8
38	f.	f.
39		
40		

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1915phae.proj.10710

Wednesday January 12, 1916

Scale P

Scale measures of plates for abs. magn.

A11403 E8 Diffr. Inn.

	g		h		
	sc.1	sc.2	sc.1	sc.2	mean
1	.		.		
2	.		.		
3	.		.		
4	.		.		
5	.		.		
6	.		.		
7	.		.		
8	.		..		
9	t.p		6.2 5.9		5.9. a.
10	.		.		.
11	6.1 6.4		6.1 6.4		6.10 00
12	t.p.		t.p.		.
13	t.p.		t.p.		.
14	.		.		.
15	.		.		.
16	t.p.		t.p.		.
17	8.3 poor		8.2 poor		8.25 9 10
18	8.3		8.2		8.25 10
19	9.1		9.1		9.10 00
20	9.4		9.4		9.40 00
21	9.5		9.6		9.55 ± 0
22	10.0		9.9		9.95 0:
23	.		.		
24	n.s.		n.s.		

too faint off plate.

Bright stars are near edge, therefore Images are too faint to compare with scale.

12:50

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1915phae_proj_10710

Monday January 17. 1916

Check No 380 243

Scale R mc Series 438

11:30 mc 7685 Pole. YELLOW

P.C.

	sc.1	sc.2		mc 7691 fr 106		Diff.	sc.2	7691 fr 106	Rev.	Diff
5	B			B	.	.	10.9	11.1	11.00 ⊥ 1	−4.57
6	B			B	.	.	11.9	12.2	12.05 ⊥ 2	−507
7.7 8	6.9	B.		7.7	7.35 ⊥ 3	068	12.4	12.9	12.65 ⊥ 3	−4.62
8.4 9	8.1	8.1	8.25 2 ⊥	8.75	8.50 25	25 024	film def.	13.7		−4.96
8.5 10	8.2	8.5	8.50 0 0	9.00	8.75 25	25 013	n.s.	7.		.
11		9.3		10.2	9.75 ⊥ 6	−039				
12		10.1		10.3	10.20 ⊥ 1	−062				
13		10.9		def.	10.9 a.	−082				
14		11.1		11.4	11.25 ⊥ 2	−101				
15		11.8		11.90	11.85 05	05 −121				
16		12.1		12.10	12.10 00	00 −116				
12.15 0 1 17		12.2	12.1	12.35	12.25 10	10 −121				
12.35 0 1 18		12.8	12.9	12.95	12.90 05	05 −134				
13.15 0 1 19		13.2	13.1	tp	13.15 a.	−121				
13.35 ⊥ 0 20		13.3	13.4	13.35	13.35 0000	−116				
13.45 0 1 23		13.4	13.5	.	13.45 a.	−069				
25		〃	〃	.	.	.				
26		n.s.		.	.	.				

Remeas Jan. 20, 1916

	7685 sc.1	7685 sc.2	7691 sc.1	7691 sc.2	
10	8.3		8.7		
11	9.4		10.2		meas. above appear correct. 7691 - poor.
12	10.1		10.5		0.

see next page for diffr. images

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1915phae.proj.10710

Monday January 17, 1916.

Scale R. Mc Series 438 YELLOW

Mc 7685 cont. Pole Diff. Images.

	h				7691 for 106			Diff.
	sc.1	sc.2		sc.1	sc.2			
5	10.7	10.65	10	10.6	11.10	10.85	2022	− 4.45
6	11.2	11.40	32	11.6	11.85	11.82	2223	− 4.64
8	12.9	12.65	33	12.4	12.55	12.60	0505	− 4.57
9	13.4	13.40	00	13.4	tp	13.40	0000	− 4.66
10	13.6	13.65	01	13.7 from	13.50	13.58	0708	− 4.70
11	7			7	7.	,	.	
12	mis					,	.	

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1915phae.proj.10710

Monday January 17, 1916.

Copied B 21:110-

Scale R Mc Series 438 YELLOW

Mc 16 89 Eros 1901 4 50 +17 5° Alt + 01

no P.C.

" Diffr. Im.

Feb. 20		sc.1	sc.2		Cu.	Magn
		89				
D =	1	8.6	8.8	8.85 1 0	0.01	8.86
	2		10.3		-0.64	9.66
			10.30 0 0			
A =	3		10.3	10.3	-0.64	9.66
			11.15 1 0			
	4		11.1	11.2	-0.93	10.22
			11.25 1 0			
B =	5		11.3	11.2	-0.96	10.29
			11.30 1 1			
C =	6		11.2	11.4	-0.97	10.33
			11.50 1 1			
a =	7		11.6	11.4	-1.04	10.46
			11.90 3 3			
	8		11.6	12.2	-1.14	10.76
			12.35 1 0			
c =	9		12.3	12.4	-1.24	11.11
			12.45 0 1	vfr		
	10		12.4	12.5	-1.25	11.20
e' =	11		t.fr. 13.1		-1.23	11.84
			13.45 1 2			
α =	12		13.3	13.6	-0.98	12.47
	d		12.2		-1.21	10.99
	β		def.		,	,
	β		13.5		-0.80	12.70
Feb. 21	A		10.1		-0.56	9.54
	B		11.1		-0.91	10.19
		86				
	C	8.3	8.1	8.65 0 1	0.10	8.75
		87 89				
(very hazy)	D	8.4 8.6	9.1	8.90 2 02	-0.01	8.89
		89				
	E	8.6	9.0	8.95 0 1	-0.06	8.89
	a		11.1		-0.91	10.19
	~~A~~	~~Faint plate flaw.~~				
	b		t.fr.		,	,
	m		12.4		-1.25	11.15
	∝		12.8		-1.26	11.54

Faint plate flaw

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Monday January 17, 1916

Copied B 21:32–

Scale R Mc Series 438 YELLOW

Mc 7689 Eros 1901 V Tauri 4 50 + 17.5. Alt +07

C.C.

Feb. 22

This sequence on edge.

		sc.1	sc.2	Cm.	Magnitude	sc.2
	A	t.f.		,		
	B	t.f.		.		
	C	t.f.		.		
	D	9.3		−0.20	9.10	
	a	10.85 ≙ 3 10.6	11.1	−0.84	10.01	
	b	11.90 ≙ 2 11.7	12.1	−1.14	10.76	
	d	12.45 01 12.4	12.5	−1.26	11.19	
	f	12.85 01 12.8	12.9	−1.26	11.59	
	g	13.10 00 13.1	13.1	−1.23	11.87	
	h	12.9	t.f.?	−1.26	11.64	
	k	t.	t.	wrong star, marked	.	
	Y	t.f.	t.f.	.	,	
	Θ		13.4	−1.02	12.38	

Seq. for V Tauri →

	a	t.f.		.	.	11.8	−4.80	7.00
	c	t.f.		.	,	11.5	−4.76	6.74
	b	t.f.		.	.	11.75 ⊥ 0 11.7 11.8	−4.80	6.95
	d	9.4		−0.25	9.15	ns. n.s.	,	
	e	9.9		−0.47	9.43			
	f	10.1		−0.57	9.53			
	g	10.4		−0.69	9.71			
	h	10.6		−0.76	9.84			
	k	11.4		−1.00	10.40			
	l	11.6		−1.06	10.54			
	n	12.25 ⊥ 2 12.1	12.4	−1.22	11.03			
	m	11.90 0 0 11.9	11.9	−1.14	10.76			

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Monday January 17, 1916.

Scale R Mc Series 438. YELLOW

Mc 1689 V Sauri cont.

	sec 2	sec 7	Cu.	Magn
		13.15 ± 0		
o	13.1	13.2	-.122	11.93
p	12.40 ± 1	12.5	-.125	11.15
r	+ p.		,	,
q	12.70 ± 1	12.8	-.126	11.44
s	dbl.		.	.
w	n.s.?	13.7?	.	.
t	n.s.	n.s.	.	.
Var.	9.4		-.025	9.15

	g		Diffr. Inm. V Sauri.		
	sec 2		sec 2		
a	11.9	11.85 ± 0	11.8	-.457	7.28
b	12.1	12.00 ± 1	11.9	-.459	7.41
c	11.4	11.40 ± 0	11.4	-.452	6.88
d	7.		7.	.	.
e	13.4	13.55 ± 1	13.1	-.469	8.86
f	n.s.		n.s.	.	.
g					
h					

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Monday January 17, 1916.

Scale R

Mc Series 438 YELLOW

Mc 7691 Pole.

	sc.1	sc.2		C.C. sc.2	Diffr. Im. g	h sc.2	
5	B.			11.1	11.1	11.1	11.10 00
6	B			12.2	11.9	11.8	11.85 10
8	7.7 7.4	B.		12.9	12.5	12.6	12.55 1.0
9	8.7 8.4	8.8	8.75 1.0	13.1	th.	th.	.
10	8.9 8.6	9.1	9.00 1.1	t	13.4	13.6	13.50 1.1
11		10.2			f	f.	.
12		10.3					
13		def.					
14		11.4					
			11.90 0 0				
15		11.9	11.9				
			12.10 0 0				
16		12.1	12.1				
			12.35 1 2				
17		12.5	12.2				
			12.95 2.1				
18		12.8	13.1				
19		th.	th.				
			13.35 1.0				
20		13.3	13.4				
23		f.	~~ff~~				
25		n.s.					

See p. 108

12.50

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Tuesday January 18, 1916

Sheet No ~~380~~ 243

Scale R

mc Series 589 YELLOW

10:15 mc98 34 Pole.

mc9839

	sc.1	sc.2			sc.1	sc.2			P.C. Diff	P.C. sc.2	P.C. sc.2	P.C. Diff
5	B.				B				. . .	11.3	1135 L0	11.4	-4.92
6	48 4.5				57 4.9				5.00 2 2	1.98	12.3	1235 L0 12.4	-5.37
8	66 6.3	B.			6.7 6.4	B.			6.65 0 1	1.38	13.8	def?	-5.77
9	82 1.9	8.1	8.15	0 1	8.1 1.8	8.1	8.10	0 0	8.12	03 02	0.62	n.s.	n.s.
10	85 8.2	8.1	8.30	2 2	8.6 8.3	8.5	8.55	0 1	8.42	12 13	0.46	n.s.	
11		10.3				9.9			10.10	2 2	-0.74		
12		10.4				10.4			10.40	0 0	-0.82		
13		11.40	0 0			11.50	L 1		11.45	05 05	-1.37		
		11.4	11.4			11.4	11.6						
14		11.80	L 1			11.80	1 L		11.80	00 00	-1.56		
		11.7	11.9			11.9	11.7						
15		12.20	0 0			12.35	0 L		12.28	08 07	-1.64		
		12.2	12.2			12.4	12.3						
16		12.85	1 0			12.55	L 0		12.70	15 15	-1.76		
		12.9	12.8			12.5	12.6						
17		12.90	0 0			12.85	1 0		12.88	02 03	-1.84		
		12.9	12.9			12.9	12.8						
18		n.s.	n.s.?			13.50	0 0		13.50	0 0	-1.94		
						13.5	13.5						
19						n.s. ↓			.				
20													
23													
25													

see also next page for diffr. Lm.

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Scale R

Mc Series 589 YELLOW

	Mc 9834 g sec	Mc 9834 h sec	Pole.	Diffs. Images. g sec	Diffs. Images. h sec					
5	11.21 11.00 22	10.8		10.75 10.7	10.8	-.432	10.88	12	13	-.445
6	12.3 12.35 10	12.4		12.10 00 12.1	12.1	-.512	12.22	13	12	-.524
8	13.9 13.85 10	13.8		+3.4 t.p.		-.537	13.62	23	22	-.559
9	7.	7.		7	7.					
10	n.s.	n.s.								
11										
12										

11:30

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Tuesday January 18, 1916 –

Card.

Scale R

Mc Series 589 YELLOW

Alt. Cor. +0.10

Mc 9836 Hyades 4 24+175

	sc.1 sc.2		Cw.	Magn	Diffr Inv. g h sc.2 sc.2	B.C. sc.2
1	4.6 4.3		.	.	12.20 1 1 12.1 12.3 – 5.20	7.00 11.9 – 5.18 6.72
2	6.0 5.1		1.66	7.66	13.10 1 1 13.0 13.2 – 5.50	7.60 12.6 – 5.44 7.16
3	6.2 5.9	B.	1.59	7.79	13.15 1 0 13.1 13.2 – 5.50	7.65 13.4 – 5.67 7.73
4	8.7 8.4	8.5 8.60 1 1	0.35	8.95	m.s. m.s. , ,	m.s. , ,
5	7.6 7.3	B.	0.94	8.54	m.s. m.s. , ,	7. , ,
6		10.30 0 0 10.3 10.3	-0.77	9.53		
7		11.20 0 0 11.2 11.2	-1.28	9.92		
8		12.65 0 1 12.6 12.7	-1.78	10.87		
9		12.80 1 1 12.9 12.7	-1.80	11.00		
10		13.00 1 1 12.9 13.1	-1.85	11.15		
11		m.s. m.s.	.	.		
12		m.s.	.			
13		m.s.	.			
14		m.s.	.			
15						
(meas defect) 16		+3.8?				

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Scale R

Mc Series 589 YELLOW

Mc 9837 α Lauri 4 30 +17.5°

	sc.1	sc.2		Cw.	Magw	Diffr. Inm sc.2 Bc.2		Cw.	Magw	P.C. sc.2	Cw.	Magw
1	B			.		10.4000 10.4	10.4	.	.	10.9	.	
2	4.2			.		11.7000 11.7	11.1	-.497	6.73	11.8	-5.15	6.65
3	6.1			1.50	7.90	13.2501 13.2	13.3	-5.51	7.74	13.5	-569	7.81
4	6.3	B		1.41	8.01	13.2000 13.2	13.2	-5.50	7.70	13.4 from	-567	7.73
5	7.3	B		0.94	8.54	n.s.	n.s.	.	.	n.s.	.	.
6	8.6	9.1	9.00 ⊥ 1	0.10	9.10	n.s.		.	.			
7		9.5		-0.25	9.25							
8		10.9	10.9 00 10.9	-.112	9.78							
9		11.6	11.65 01 11.7	-.148	10.17							
10		12.4	12.40 00 12.4	-.171	10.69							
11		13.1	13.15 ⊥ 0 13.2	-.188	11.27							
12		13.4?	13.45 01 13.5	-.192	11.53							
13												
14												
15												
16												
17												
18												

Image poor.

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Copied B 21, 110, 111

Scale R

Mc Series 589 YELLOW

	Mc 9838	V Tauri Eros 1901	4 50 +17.5	Alt +10
			Diffr. Imm.	FC.
Seq. for Eros 1901	sc.1 sc.2	Cw.	Magn	sc.2 sc.2 g F	sc.2
Feb. 20 D 1	87 8.4 86 86.5 1 0	0.32	8.97	n.s. n.s.	n.s.
2	10.15 0 1 10.2 10.1	-0.68	9.47	n.s. n.s.	
A 3	10.65 1 0 10.7 10.6	-0.98	9.67		
4	12.00 1 1 11.9 12.1	-1.60	10.40		
B 5	11.50 2 2 11.3 11.7	-1.41	10.09		
C 6	12.20 0 0 12.2 12.2	-1.65	10.55		
a 7	12.20 0 0 12.2 12.2	-1.65	10.55		
8	13.10 0 0 13.1 13.1	-1.86	11.24		
c 9	13.30 0 0 13.3 13.3	-1.89	11.41		
10	f. f.	.	.		
é 11	n.s.	.	.		
α 12	n.s.	.	.		
13					
14					
15					
~~Seq for V Tauri~~					
d	f.p.				
f	11.3	-1.30	10.06		
e	13.9	.	.		
Seq. for Eros 1901 Feb. 21					
a	10.4	-0.85	9.55		
B	87 8.2 11.8	-1.54	10.26		
C	81.5 0 1 8.9 8.1	0.61	8.76		
D	87 8.4 86.0 1 1 8.5	0.35	8.95		
E	88 8.5 87.0 1 1 8.6	0.29	8.99		

we omit

(over)

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ν Tauri Copied B 21:32

Scale R Mc Series 589- YELLOW

Mc 9838 Eros 1901 ν Tauri 4 50 +17.5

Eros 1901 - Feb. 21 cont.

		sc.1	sc.2	Cu.	Magn	Diffr. 1 m. sc.1 g	Diffr. 1 m. sc.2 h	P.C.
	a	11.5		- 141	10.09			
	d	f	.	.				
	m	13.4		- 191	11.49			
	b	12.3		- 168	10.62			

Eros. 1901 Feb. 22 (seq. on edge of pl.)

	A	7.4 7.5 / 7.1 7.2	7.45 0 1		1.01	8.46		
	B	f.f.		.				
	C	f.f.		.				
	D	f.f.		.				
Elongated	a	11.3		- 131	9.99			
	g	12.3		- 168	10.62			
	d	f.		.	.			

Seq. for ν Tauri

				Cu.	Magn			
a	B.		.	.	12.15 12 / 12.3 12.0	- 5.20	6.95	sc.2 12.2 - 5.30 6.90
c	4.1 / 4.4		.	.	12.05 1 0 / 12.1 12.0	- 5.14	6.91	12.4 - 5.38 7.02
b	5.3 / 5.0	B.	192	7.22	12.35 0 1 / 12.4 12.3	- 5.27	7.08	12.9 - 5.50 7.40
d	8.2 / 7.9	8.1	060	8.80	n.s. n.s.	.	.	.
l	9.1 / 8.8	9.1 / 9.10 0 0	002	9.12				
f		9.3 9.5 / 9.40 1 1	- 017	9.23				
g		10.4 10.4 / 10.40 0 0	- 084	9.56				
h		10.6 10.7 / 10.67 0 1	- 100	9.67				
k		12.1 12.1 / 12.10 0 0	- 161	10.49				
l		12.2 12.1 / 12.15 0 1	- 163	10.52				
m		13.0 12.9 / 12.95 0 1	- 182	11.13				

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Tuesday January 18, 1916.

Scale 12 — Mc Series 589 - YELLOW

Mc 9838 — V Tauri cont — 4 50 + 17.5

	sc 2	sc 7		
	12.35 01			
m	12.4	12.3	- 1.70	10.65
o	7	7.	.	.
p	n.s.	n.s.	.	.
q	n.s.		.	.
r	n.c.		.	.
Var.	11.1		- 1.22	9.88

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Wednesday January 19, 1916.

Scale R

MC Series 562 YELLOW

9.40

MC 9485

Pole.

MC 9489

P.C.

	Diff.		sc.1	sc.2		sc.1	sc.2		sc.2	sc.2	Diff
4.25	1 0	2.18		4.3			4.2		12.4	12.40 0 0	
5.60	1 1	1.38	5	4.0			3.9		~~12.8~~	w.s. 12.4	-5.97
				5.7			5.5		13.15 1 0		
7.75	1 0	0.28	6	5.4			5.2		13.1	13.2	-6.17
				7.7			7.8				
9.15	00 00	-0.41	8	7.4	B.		1.5	B.	m.s.	m.s.	
				9.1			9.2				
9.40	15 15	-0.52	9	8.8	9.2	9.15 1 0	8.9	9.1	9.15 0 1		
					9.55 1 0						
10.65	25 25	-1.29	10		9.5	9.6		9.3			
					10.90 0 0			9.0	9.2	9.25 1 0	
10.80	25 25	-1.22	11		10.9	10.9			10.4		
					11.05 0 1				10.55 1 0		
12.10	10 10	-2.02	12		11.0	11.1			10.5	10.6	
					12.20 1 1				12.00 1 1		
12.35	15 15	-2.11	13		12.1	12.3			11.9	12.1	
					12.50 1 1				12.20 0 0		
12.84	16 17	-2.20	14		12.4	12.6			12.2	12.2	
					13.00 1 2 1				12.67 0 1		
13.20	05 05	-2.26	15		12.9	13.2	12.9		12.6	12.7	
					13.25 0 1				13.15 1 0		
13.60	25 25	-2.56	16		13.2	13.3			13.1	13.2	
					13.85 0 1				13.35 1 0		
,			17		13.8	???	13.9		13.3	13.4	
,			18		1		1		1	1	
			19		m.s.				m.s.	m.s.	
			20								
			23								
			25								
			26								
			27								
			28								
			29								

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Wednesday January 19, 1916 -

Scale Mc Series 562 YELLOW

	Mc 9485		Pole	Diffr Inv. Mc 9489		
	g	h	g	h		
	sc 2	sc 2	sc 2	sc 2		Diff
5	12.1 12.15 ⅒	12.2	12.2	12.8 12.15 0 ⅒	12.15	00 00 -5.72
6	12.9 13.00 ⅒	13.1	12.7	12.6 12.65 1 0	12.82	18 17 -5.84
8	n.s.	n.s.	±	±	,	,
9	n.s.	n.s.	n.s	n.s.	,	
10						
11						
12						
13						
14						

Attend of Series.
11:48

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Scale R Mc Series 562 YELLOW

Mc 9486 D3. ~~23~~ + 5 − 15° Alt − 11

O.C.

		sc.1	sc.2	Cw.	Magn.	sc.2		
Image defective	1	.		.	.	13.3	−6.21	7.09
edge.	2	.		.	.	12.1	−5.86	6.24
ON "	3	.		.	.	13.4?	−6.24	7.16?
	4	B.		.	.	12.3	−5.94	6.36
	5	7.1 6.8		0.62	7.72	~~1~~	,	
(meas here)	6	7.4 ~~7.8~~		0.46	7.86	~~1~~ m.s.	,	
near edge.	7	7.7 7.4		0.31	8.01	m.s.	,	
	8	5.8 5.5	B.	1.30	7.10	12.8	−6.08	6.72
	9	6.7 6.4	B	0.84	7.54	13.5 ~~13.5~~	−6.25	7.25
	10	8.9 8.6	9.00 9.1	−0.37	8.63	m.s.	,	,
	11	7.5 7.2	B	0.40	7.90	m.s.	,	,
	12	7.0 6.7	B.	0.68	7.65	14.0	,	,
	13	8.4 8.1	8.3 8.35 0 1	−0.15	8.20			
	14		10.95 0 1 11.0 10.9	−1.41	9.54			
	15		11.40 0 0 11.4 11.4	−1.66	9.74			
	16		11.30 L 1 11.2 11.4	−1.60	9.70			
	17		11.65 1 0 11.7 11.6	−1.79	9.86			
	18		12.70 0 0 12.7 12.7	−2.17	10.53			
	19		11.40 0 0 11.4 11.4	−1.66	9.74			
	20		12.20 0 0 12.2 12.2	−2.00	10.20			
	21		12.60 L 1 12.5 12.7	−2.14	10.46			
	22		m.s. ~~1~~?	.				
	23		14.00 0 0 14.0 14.0?	,				
	24		~~1~~ m.s.	,				
	25		m.s.	,				
	26		m.s.	,				
C ~~8~~			~~1~~	,				
	27		m.s.	,				

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Wednesday January 19. 1916.

Scale R

mc Series 562 YELLOW

mc 9486 D3 5 - 15 Diffr Inn.

	g sc.1	g sc.2	h sc.1	h sc.2	Cu.	Magn
1	t.f.				.	.
edge 2	t.f.		11.4		.	.
3	13.3	13.20	1½	13.1	-.589	7.31
4	11.9	12.00	1.1	12.1	-.570	6.30
5	t.		t.		.	.
6	t.		m.s.		.	.
7	m.s.		m.s.		.	.
8	12.1	12.65	10	12.6	-.583	6.82
9	13.4	13.40	00	13.4	.	.
10	m.s.		m.s.		.	.
11	m.s.		t.f.		.	.
12	13.9	13.90	00	13.9	.	.
13	m.s.		m.s.		.	.
14	m.s.				.	.
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

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Wednesday January 19, 1916.

Alt. 00
Copied Book 20:94

Scale R

Mc Series 562 — YELLOW

Mc 9487 Net. Orion 5 31-55

	sc.1	sc.2	sc.3	Cu.	Magn
1	8.5 (8.8)	8.4	8.60 22	-0.18	8.42
2	8.5 (8.8)	8.9	8.85 01	-0.29	8.56
3		9.3		-0.50	8.80
4		11.60 1 1 / 11.7	11.5	-1.78	9.82
5		12.25 1 0 / 12.3	12.2	-2.03	10.22
6		12.15 1 0 / 12.1	12.2	-2.00	10.15
7		12.05 1 2 / 11.9	12.2	-1.96	10.09
8		n.s.	n.s.	.	.
9		14.0	7.	.	.
10		n.s.	n.s.	.	.
11		n. s.		.	.
12					
757		11.25 1 0 / 11.3	11.2	-1.58	9.67
554	7.1 (7.4)			0.45	7.85
924		10.10 0 0 / 10.1	10.1	-0.96	9.14
776		11.15 1 0 / 11.1	11.2	-1.52	9.63
491	w.s.	12.1		-1.98	10.12
303		12.16 0 1 / 12.2	12.1	-2.00	10.15
a	n.s.			.	.
b					
c	n.s.				
d					
e	n.s.				
f					
g					
h					
i					

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Wednesday January 19, 1916.

Scale R

Mc Series 562 YELLOW

Mc 9488 Z Tauri 5 40 +15.0°

		pc.1	sc.2	sc.2	Cu.	Diffr Inm Magn g	h	P.C. sc.2
	a	13	B		0.36	7.96		
	a'		9.9		-0.85	9.05		
c =	b'	87	9.6		-0.69	8.91		
	f	8.48	8.7		-0.22	8.48		
	d		10.8		-1.35	9.45		
	c'		11.1		-1.50	9.60		
dbl. bit comp measured	e		11.85	10				
			11.9	11.8	-1.89	9.96		
	d'		12.05	01				
			12.0	12.1	-1.96	10.09		
	e'		12.85	10				
			12.9	12.8	-2.20	10.65		
	k		13.30	00				
			13.3	13.3	-2.29	11.01		
	f		10.90	00				
			10.9	10.9	-1.40	9.50		
	f'		12.95	01				
			13.0	12.9	-2.21	10.74		
	g		11.00	11				
			10.9	11.1	-1.45	9.55		
	g'		m.s.	m.s.	,	,		
	g		11.10	00				
	h		11.1	11.1	-1.50	9.60		
	h'		m.s.	m.s.	,	,		
	k'		m.s.	?	,	,		
	l		13.55	01				
			13.6	13.5	-2.32	11.23		
	n		~~m.s.~~	?	,	,		
	p		?	?	,	,		
	m		m.s.	m.s.	,	,		
	Var		m.s.		,	,		

See also next page

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Scale R

Mc Series 562 YELLOW

Mc 9488 Z Tauri Ref. Seq. 5 40 +15°

	sc.1	sc.2	sc.3	Cw.	Magn.	Diff. Inv. g sc.2	h sc.2	P.C. sc.2
1	67 59			1.12	7.32	t.p. 13.21	−5.89 7.31	13.4 −6.24 7.16
2	88 85	8.8	8.80 0 0	−0.29	8.51	n.s.	n.s.	n.s.
3		9.70 1 1 9.8	9.6	−0.74	8.96			0
4		11.25 0 1 11.2	11.3	−1.58	9.67			
5		12.80 0 0 12.8	12.8	−2.20	10.60			
6		12.70 1 1 12.6	12.8	−2.17	10.53			
7		13.35 1 0 13.3	13.4	−2.30	11.05			
8		12.80 0 0 12.8	12.8	−2.20	10.60			
9		?. n.s.						
10		n.s.						
11								
12								
13								
14								
15								

+1.48

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Scale R

Mc Series 562 YELLOW

Mc 9489 { Eros 1901 mar. 8-9 + 5 50 +12.5° - Alt +.09

Diff. lm. P.C.

	sc1	sc2	sc3	Cu.	Magnesc sc2	sc2
	7.0					
1	6.9	B.		0.68	7.68 + 7.	n.s.
	7.8					
2	7.5	B.		0.25	8.05	
	8.6					
3	8.5	8.6	8.70 1 1	-0.22	8.48	
4		9.1		-0.75	8.95	
		10.55 0 1				
5		10.6	10.5	-1.21	9.34	
		11.00 1 1				
6		11.1	10.9	-1.45	9.55	
		11.90 0 0				
7		11.9	11.9	-1.90	10.00	
		12.25 0 1				
8		12.2	12.3	-2.03	10.22	
		12.30 0 0				
9		12.3	12.3	-2.05	10.25	
		12.65 2 1				
10		12.8	12.5	-2.16	10.49	
		13.20 0 0				
11		13.2	13.2	-2.27	10.93	
		13.40 0 0				
12		13.4	13.4	-2.30	11.10	
Mar 8) →	A		10.4	-1.12	9.28	
	B		10.6	-1.25	9.35	
		10.65 1 0				
C		10.7	10.6	-1.26	9.39	
		12.20 0 0				
D		12.2	12.2	-2.01	10.19	
		11.90 0 0				
E		11.9	11.9	-1.90	10.00	
a			13.5	-2.31	11.19	
		12.45 1 0				
b		12.5	12.4	-2.09	10.36	
		13.35 0 1				
c		13.4	13.3	-2.30	11.05	
		13.13 2 2 1		-2.26		
d		12.9	13.3	13.2	10.87	
		13.40 0 0				
e		13.4	13.4	-2.30	11.10	

								Cu.
						11.65 1 0		
Mar 9	A	B				11.7 11.6	. .	11.9 - 5.77 6.13
		8.4						
	B	8.1	8.3	8.35 0 1	-0.02	8.33	n.s n.s . .	
	C		13.3		-2.28	11.02		

(over)

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Wednesday. January 19, 1916.

Scale R

Mc Series 562 YELLOW

Mc 9489 cont. Eros 1901 5 50 +125. Alt. +09

		sc.1	sc.2	Cw.	Magn
		9.2 9.20	0.0		
March 9.	D	8.9	9.2	-0.46	8.74
	a	12.9		-2.21	10.69
	b	10.9		-1.40	9.50
	d	12.7		-2.17	10.53
	e	12.5		-2.10	10.40

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Friday January 21, 1916

Sheet No 254

Scale R

10:10

Mc Series 555 YELLOW

Mc 9390 Pole.

Mc 9394

Mc 9399.

	Mc 9390 sc.1	Mc 9390 sc.2	Mc 9394 sc.1	Mc 9394 sc.2	Mc 9399 sc.1	Mc 9399 sc.2	Diff.
5			B		B.		
6	4.7 4.4		6.1 fogged 5.8		5.2 4.9		5.33 6 8 1 1.65
8	7.1 6.8 B.		7.6 7.3 B.		7.7 7.4 B.		7.47 4 1 2 0.56
9	8.7 8.4	8.8 8.75 1 0	8.8 8.5	8.9 8.85 0 1	9.1 8.8	9.1 9.10 0 0 8.90 15 05 20 - 0.16	
10	8.8 8.5	9.1 8.95 2 1	9.4	9.3	9.2 8.9	9.1 9.15 0 1 9.13 18 17 02 - 0.25	
11		9.9		10.5		10.2	10.20 3 3 0 - 0.84
12		10.3		10.1		10.40 1 1 10.3 10.5	10.47 07 23 17 - 0.89
13		11.20 0 0 11.2 11.2		11.30 0 0 11.3 11.3		11.30 0 0 11.3 11.3	11.27 07 03 03 - 1.19
14		11.50 1 1 11.4 11.6		11.55 1 0 11.5 11.6		11.65 0 1 11.6 11.7	11.57 07 02 08 - 1.33
15		12.15 1 0 12.1 12.2		12.35 1 0 12.3 12.4		12.10 0 0 12.1 12.1	12.20 05 15 10 - 1.56
16		12.50 1 1 12.4 12.6		12.1 12.70 0 0 12.9 12.7		12.45 0 1 12.4 12.5	12.55 05 15 10 - 1.61
17	Sun very large.	12.70 0 2.7 12.7 ~~13~~ w.s		12.85 1 0 12.9 12.8		12.65 0 1 12.6 12.7	12.73 03 12 08 - 1.69
18		13.40 1 1 13.5 13.3		13.60 1 1 13.5 13.7		13.45 0 1 13.4 13.5	13.48 08 12 03 - 1.92
19		f. f.		f f		f. f.	
20		m.s.		m.s		m.s. m.s.	
23							
25							
26							

Mc 9394 Unevenly fogged,
See also next page for Pc's.

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Scale R

Mc Series 555 YELLOW

	Mc 9390	P.C. 9394	Pole. 9399			
	sc. 2	sc. 2	sc. 2			
5	11.7	11.4	11.9	11.67	0 3 2	−5.24
6	12.3	12.6	12.4	12.43	1 2 0	−5.45
8	13.4	13.5 now	13.3	13.40	0 1 1	−5.37
9	7.	h.s.	7.	,		,
10	n.s.	n.s.	n.s.	,		,
11						
12						
13						
14						
15						

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Scale Mc Series 555 YELLOW

	Mc 9390		Pole	Diffr. Inn.		
	g	h	9394 g	9394 h	9399 g h	
	RO1	RO2	RO2 RO2		RO2 RO2	
5	11.4 11.45 01	11.5	11.40 12 11.5	11.3	11.60 00 11.6 11.6	11.48 03 08 12 – 5.05
6	12.3 12.25 10	12.2	12.75 01 12.8	12.7	12.35 21 12.2 12.5	12.45 20 30 10 – 5.47
8	13.4 13.40 00	13.4	13.45 10 13.5	13.4	13.40 00 13.4 13.4	13.42 02 03 02 – 5.39
9	?	n.s.	n.s.	n.s.	n.s n.s.	, ,
10	n.s.	n.s.				
11						
12						
13						

after series.
2:37

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10

Scale R

Mc Series 555 YELLOW

Card

* Mc 9391 γ Erid. +00 -15.0

	sc.1	sc.2	sc.3	Cw.	Magn.	Diffr. Inn. g	h	P.C. sc.2
1	B. 9.1			.	.	10.5 (10.40 sc.2 1 L)	10.3 . .	10.6 . .
2	8.8	9.1 (9.10 0 0)	9.1	-0.29	8.81	n.s.	n.s. . .	n.s. . .
3		9.2		-0.34	8.86			
4		10.1 (10.60 0 0)		-0.75	9.35			
5		10.6 (10.65 0 1)	10.6	-0.97	9.63			
6		10.6 (11.60 L 1)	10.7	-0.98	9.67			
7	fogged. poor	11.5	11.7?	-1.37	10.23			
8		t.p.	12.2	-1.55	10.65			
9		t.p.	t.p.	.	.			
10	No image def? Secured shafts	t.p.	.	.	.			
11		13.1 (13.20 L 1)	13.3	-1.81	11.39			
12		13.5 (13.50 0 0)	13.5	-1.89	11.61			

* Plate is unevenly fogged.
Sequence is not at center, is near the fogged section.

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Scale R Mc Series 555 YELLOW Card

Mc 9392 B2 Alt +.13

	sc.1	sc.2		Cw.	Magn	sc.	Cw.	Magn
						Diff. B.C.		
1	5.7 5.4			1.45	7.15	12.3	−.543	6.87
2	6.7 6.4			1.00	7.70	12.8	−.545	7.35
3	7.5 7.2			0.56	8.06	13.4	−.536	8.04
4	6.7 6.1	B.		1.12	7.52	12.8	−.545	7.35
5	7.9 7.6	B.		0.35	8.25	13.6	,	,
6	8.1 7.8	8.1	8.10 00	0.24	8.34	13.7	,	,
7	6.4 6.1	B.		1.12	7.52	12.9	−.545	7.45
8	8.6 8.3	8.5	8.55 01	−.000	8.55	m.s.	,	,
9	8.8 8.5	9.1	8.95 21	−.022	8.73			
10	8.9 8.6	9.1	9.00 11	−.025	8.75			
11	8.2 7.9	8.1	8.15 01	0.20	8.35	m.s.		
12		10.3		−.084	9.46			
13		9.6		−.053	9.07			
14		10.25 01 10.2 10.3		−.080	9.45			
15		11.20 11 11.1 11.3		−.121	9.99			
16		9.50 11 9.4 9.6		−.048	9.02			
17		10.50 11 10.4 10.6		−.093	9.57			
18		11.40 11 11.3 11.5		−.129	10.11			
19		12.35 01 12.4 12.2		−.160	10.75			
20		12.20 00 12.2 12.2		−.155	10.65			
21		12.50 00 12.5 12.5		−.162	10.88			
22		12.85 10 12.9 12.8		−.172	11.13			
23		11.95 21 11.8 12.1		−.148	10.47			
24		12.10 00 12.1 12.1		−.152	10.58			
24a		13.35 10 13.3 13.4		−.186	11.49			
25		12.90 22 12.7 13.1		−.174	11.16			

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Friday, January 21, 1916

Scale R-

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	9392	B2 cont	4 +45°
		scl	
26		13.9	,
27		n.s.	,
28		n.s.	,
29		n.s.	,
30		n.s.	,

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Alt Cor +13

Scale R Series 555 YELLOW Diffr Images.

Mc 9392 B2

	g sc1	h sc2	Cw	Magn.
	12.65 1 2			
1	12.5	12.8	−5.40	7.25
	13.10 2 2			
poor 2	13.3?	12.9	−5.41	7.61?
	13.35 1 0	13.4		
3	133	+2.9	−5.41	7.94
	12.95 1 2			
4	13.1	12.8	−5.41	7.54
5	13.4	4	−5.41	799
6	4.	n.s.	.	,
	12.65 3 2			
7	12.9	12.4	−5.40	7.25
8	n.s.	n.s	.	,
9	n.s.	n.s.	.	.
10	n.s.	n.s.	.	,
poor 11	13.4?	4 f.	−5.41	7.99?
12	n.s.	n.s.	,	,
13				
14				
15				
16				
17				
18				
19				

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Friday January 21, 1916 –

Card

Scale R

mc series 550 – YELLOW

mc 9393 N.G.C. 1528 4 00 + 50° Alt. +.12

	sc.1	sc.2		Cu.	Magn	Diff Inv. g sc.2	Diff Inv. h sc.2	P.C. sc.2
1	7.7 1.4	B.		0.45	8.15	1 13.5 – 5.41	8.09	13.4 from – 5.36	8.04
2	9.2 8.9	9.21	9.20 0 0	-0.35	8.85	n.s. **	n.s. ** .	n.s. . .
3		9.5		-.047	9.03	n.s.	n.s. .	n.s . .
4	8.5 8.2	8.5	8.50 0 0	0.02	8.52	+f.	+f. . –	1. . .
5		10.6		-0.98	9.62	n.s.	n.s. .	
6		11.6		-1.38	10.22			
7		11.5		-.131	10.19			
8		12.75 1 2 12.9	12.6	-.171	11.04			
9		13.00 L 1 12.9	13.1	-.177	11.23			
10		13.80 L 1 13.7	13.9	-1.92 e	11.88 e			
11		13.25 L 0 13.3	13.4	-.186	11.49			
12		14.0? n.s.?		-1.90 e	12.10 e			
13		13.90 0 0 13.9 from	13.9	-1.92 e	11.98 e			
14		n.s.	n.s.	.	.			
15		n.s.	n.s.	.	.			
16								
17								
18								
19								
20								

12 –
12:55

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Scale R. Mc Series 555 YELLOW

Mc 9395 D3 5 00 – 15.0 Alt – 10

P.C.

	sc.1	sc.2		Cw	Magn	sc.2	Cw.	Magn
	5.7							
1	5.4			1.45	7.15	12.5	– 5.45	7.05
badly fogged edge 2	B			.		11.1	.	.
3	B.			.		12.1	– 5.37	6.73
4	B.			.		11.4	.	.
	6.4						for	
5	6.1			1.12	7.52	12.4?	– 5.44	6.96?
edge 6	.			.	.	t.f.	.	.
7	t.f.			.	.	13.2	– 5.42	7.78
	5.0							
8	4.1			1.72	6.72	11.7	– 5.25	6.45
	6.4							
9	6.1	B		1.12	7.52	12.5	– 5.45	7.05
	8.4							
10	8.1	8.5	8.45 0 1	0.06	8.51	m.s.	.	.
	7.4							
11	7.1	B		0.64	8.04	13.4?	– 5.36	8.04?
	6.4							
12	6.1	B		1.12	7.52	12.8	– 5.46	7.34
	8.1							
13	7.8	8.1	8.10 0 0	0.23	8.33	t.	.	.
14		10.3		– 0.84	9.46			
15		10.5		– 0.92	9.58			
16		10.8		– 1.04	9.76			
17		11.1		– 1.06	10.04			
		12.00 1 1						
18		12.1 11.9		– 1.49	10.51			
		10.45 1 0						
19		10.5 10.4		– 0.90	9.55			
		11.20 0 0						
20		11.2 11.2		– 1.20	10.00			
		11.80 0 0						
21		11.8 11.8		– 1.43	10.37			
Image ring, edge + edge 22		13.5? t		– 1.88	11.62?			
		13.10 0 0						
23		13.1 13.1		– 1.79	11.31			
		12.65 0 1						
24		12.6 12.7		– 1.68	10.97			
25		t t		.	.			
26		m.s. m.s.		27 m.s.				
		t		28 m.s.				

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Mc 9395 D3 . Diffr. Inn.

		g	h			
		sc.	sc.	sc.	Cw.	Magn
	1	12.2	12.40 2 2	12.6	-5.35	7.05
edge	2	t.p.			.	.
"	3	t.p.			.	.
	4	11.6	11.40 2 2	11.2	.	.
"	5	t.p.			.	.
"	6	t.p.			.	.
"	7	t.p.			.	.
	8	11.7	11.65 1 0	11.6	-.519	6.46
	9	12.8	12.65 2 1	12.5	-.540	7.25
	10	7.		7	.	.
	11	13.6	13.45 2 1	13.3	-.541	8.04
Rejct. Diffraction Im.	12	12.3		t.p.	-.533	6.97 R
	13	13.9		7	.	.
	14	n.s.		n.s.	.	.
	15	n.s.		n.s.	.	.
	16	n.s.			.	.
	17					
	18					
	19					
	20					

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Mc 9396 ⓥ 3 5 + 15° Alt + 10

P.C.

	sc.1	sc.2	Cu.	Magn	sc.2	Cu.	Magn
1	B		.		11.7	-5.25	6.45
2	B		.		11.8	-5.30	6.50
3	B		.		11.7	-5.25	6.45
4	6.4 6.1		1.12	7.52	13.2	-5.41	7.79
5	7.2 6.9		0.73	7.93	13.5	-5.32	8 7.18
6	7.2 6.9		0.73	7.93	13.5	-5.32	8 7.18
7	7.5 7.2		0.56	8.06	13.8	,	.
8	6.8 6.5	B.	0.93	7.73	13.1	-5.44	7.66
9	8.2 7.9	8.2 8.20 00	0.18	8.38	‡	,	.
9b	8.0 7.1	7.9 7.95 01	0.31	8.26	‡.	,	.
10	7.0 6.1	B	0.83	7.83	13.2	-5.41	7.79
11	7.2 6.9	B	0.73	7.93	‡.	,	.
12	8.9 8.6	8.1 8.80 11	-0.14	8.66 8.94			
13		9.5	-0.48	9.02			
14		10.5	-0.93	9.57			
15		10.75 01 10.8 10.7	-1.02	9.73			
16		9.85 10 9.9 9.8	-0.63	9.22			
17		9.50 00 9.5 9.5	-0.48	9.02			
18		11.10 00 11.1 11.1	-1.15	9.95			
19		11.25 12 11.1 11.4	-1.22	10.03			
20		11.10 11 11.0 11.2	-1.15	9.95			
21		12.10 00 12.1 12.1	-1.52	10.58			
22		12.10 00 12.1 12.1	-1.52	10.58	Star Im. cont. sc.2		
23		12.45 12 12.3 12.6	-1.61	10.87	24 ‡		
24		11.00 11 10.9 11.1	-1.12	9.88	28 n.s.		
25		13.20 11 13.1 13.3	-1.81	11.39	29 n.s.		
26		13.30 11 13.2 13.4	-1.84	11.46	→		

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1915phae.proj.10710

Friday January 21, 1916.

Scale B

Mc Series 555 YELLOW

Cofried B 23:91

Mc 9396 C3 5+15 cont-

Diffr Inw

	g scl		h scl	Cu.	Magn
1	12.1	11.90 2½	11.8?	-5.525	6.65
2	11.6	11.55 0½	11.5	,	,
3	11.7	11.70 00	11.7	-520	6.50
4	13.1	13.00 1½	12.9	-541	7.59
5	13.3	13.35 L0	13.4	-541	7.94
6	13.4	13.40 00	13.4	-541	7.99
7	?		13.4	-541	7.99
8	t.p.		12.7	-540	7.30
9	n.s.		n.s.	,	,
10	12.8	12.80 00	12.8? poor	-540	7.40
11	13.3	13.30 00	13.3	-541	7.89
12	n.s		n.s.	,	,
13	ns		n.s.	,	,
14					
15					
16					

"g" image faded.

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Friday January 21, 1916

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Scale R — Mc Series 555 YELLOW — Card

		Mc 9397	Eros 1901	5 20 +15°	Alt +10
				Diffr. Inn.	P.C.
Feb. 26 + 27		sc.1 sc.2	Cu.	Magn. sc.2 sc.2 Cu	sc.2 Cu
	1	B	.	. 13.1 13.1 − 541 7.69	12.8 −546 7.34
	2	7.9 7.6 B.	0.35	8.25 n.s. n.s.	n.s. . .
~~Feb. 27 b =~~	3	9.1 8.8 8.9 9.00 11	−0.25	8.75	
Feb. 26 A =	4	10.5	−0.93	9.57	
F =	5	10.1	−0.99	9.71	
	6	11.4	−1.29	10.11	
D =	7	11.90 00 11.9 11.9	−1.46	10.44	
E =	8	12.15 L 0 12.1 12.2	−1.52	10.63	
	9	12.15 L 0 12.1 12.2	−1.52	10.63	
	10	12.50 00 12.5 12.5	−1.62	10.88	
J =	11	t.f. t.f.	.	.	
~~Feb. 27 b =~~	12	13.60 00 13.6 13.6	−1.91	11.69	
Feb. 27 A	B		.	. 10.55 L 0 10.5 10.6 . .	11.2 −509 E 6.11 E
~~slow dbl.~~ "	B	.			
Feb. 26	B	10.6	−0.97	9.63	n.s.
	a	13.1	−1.79	11.31	
Prob. with φ	~~φ a~~	13.1	−1.79	11.31	
	K	n.s.	.	.	
Feb. 25	A	9.6 8.3 8.50 11 8.4	0.03	8.53	n.s.
	B	10.4	−0.90	9.50	
	C	13.1	−1.79	11.31 Star Inn. cont.	
	D	7.6 7.3 B.	0.50	8.10 a 11.7 −1.39 10.31	13.8 = P.C. for D. . .
	a	10.9	−1.07	9.83 B t.f. . .	
	f	12.1	−1.51	10.59 f n.s. . .	
	e	10.6	−0.97	9.63	
	d	13.4			
		t.f.	−1.86	11.54	

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Friday January 21, 1916 –

Cpid BK 20:94

Scale R

Mc Series 555 YELLOW Card.

Mc 9398 Net. Orion 5 30–55 alt. 00

	sc.1	sc.2	Cw.	Magn	R.C. sc.2
1	7.8 1.5		0.40	8.20	7.
2	8.2 4.9	B	0.18	8.38	m.s.
3	8.6 8.3	8.50 1L 8.4	0.03	8.53	
4		10.60 1L 10.1 10.5	-0.97	9.63	
5		11.50 00 11.5 11.5	-1.31	10.19	
6		11.45 01 11.4 11.5	-1.30	10.15	
7		10.70 00 10.1 10.1	-1.00	9.70	
8		13.55 10 13.5 13.6	-1.90	11.65	
9		7. 7.	,	.	
10		7.	,	.	
11		m.s.	,	.	
12		m.s.	,	.	
157		10.2	-0.78	9.42	
554	6.7 5.9	B.	1.22	7.42 ~~4.98~~	12.9 – 5.45 7.45
924	8.7 8.4	8.9 8.80 11	-0.13	8.67	
776		10.30 11 10.2 10.4	-0.86	9.45	
497		10.90 22 11.1 10.1	-1.07	9.83	
303		11.15 01 11.2 11.1	-1.19	9.96	

a m.s.

b .

c m.s.

d .

e m.s.

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Monday January 24, 1916.

Sheet No. 255.

Scale R

10 – 08

mc Series 589. YELLOW

mc 9839 Pole.

mc 9840

	sc.1	sc.2		sc.1	sc.2			P.C. Diff	P.C. sc.2	P.C. sc.2	Diff
	3.8			3.8					11.45 0 1		
5	3.5?			3.5?		3.80	0 0	2.63	11.4	11.5	11.48 0 3 0 2 – 5.02
	5.7			5.7					12.55 0 1		
6	4.9			4.9		5.20	0 0	1.78	12.6	12.5	12.52 0 3 0 2 – 5.57
	6.6			6.7					13.40 0 0		
8	6.3	B.		6.4		6.65	0 1	1.38	13.4	13.4	13.40 – 5.37
	8.3			8.3					‡.	‡.	
9	8.0	1.9	8.10 2 2	8.0	B.	8.20	1 0	1 0 0.54			
	8.6			8.9							
10	8.3	8.5	8.55 0 1	8.6	8.6	8.75	1 2	8.65 1 0	1 0 0.23		
11		10.1			10.2			10.15 1 0	– 0.79		
12		10.4			10.4			10.40 0 0	– 0.82		
					11.40 0 0						
13		11.4			11.4	11.4		11.40 0 0	– 1.32		
		11.75 1 0			11.65 0 1						
14		11.7	11.8		11.6	11.7		11.70 0 5 0 5	– 1.46		
		12.35 2 1			12.30 0 0						
15		12.2	12.5		12.3	12.3		12.32 0 3 0 2	– 1.68		
		12.65 0 1			12.85 1 0						
16		12.6	12.7		12.9	12.8		12.75 1 0 1 0	– 1.81		
		12.85 0 1			13.10 0 0						
17		12.8	12.9		13.1	13.1		12.98 1 3 1 2	– 1.94		
		13.60 0 0									
18		13.6	13.6		‡ def?			13.60 a	– 2.04		
19		‡	‡		‡			,	,		
20		m.s.	m.s.		m.s.			,	,		
23											
25											

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Monday January 24 1916.

Scale R

Mc Series 589 YELLOW

	Mc 9839		Pole.		Diffr. Inn.				
	♄h	♄g	9845 h g						
	sec 2	sec 2	sec 2	sec 2					Diff
5	10.9	10.85 10	11.1	11.1	10.98	13	12	−	4.55
6	12.2	12.0 00	12.4	12.4	12.30	10	10	−	5.32
8	♄h.	13.4	♄h.	13.5	13.45	0	1	−	5.42
9	♄.	♄.	♄	♄.	.				.
10									
11									

1:40

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Monday January 24. 1916.

Cofried B 23:88

Card.

Scale R

mc Series 589 YELLOW

mc 9840 C3

Alt + 10

B.C.

	RC.1	RC.2			Cu.	Magn.	RC.2	Cu.	Magn.
1	47 3.9				2.35	6.55	11.1	- 5.16	6.54
2	B.				,	,	11.4	- 50 6	6.34
3	43 4.0				2.32	6.62	11.5	- 5.10	6.40
4	59 5.6				1.64	7.54	12.9	- 5.44	7.46
5	66 6.3				1.32	7.92	13.4	- 5.48	7.92
6	6.7 6.4				1.28	7.98	13.4	- 5.48	7.92
7	6.8 6.5				1.23	8.03	13.6	- 5.48	8. 7.12
8	6.2 5.9				1.50	7.70	13.21	- 5.47	7.73
9	7.8 7.5	B.			0.73	8.53	4.	,	,
9B	9.4 7.1				0.94	8.34	m.s.	,	,
10	6.4 6.1	B			1.42	7.82	13.4	- 5.48	7.92
11	6.7 6.8 4	B			1.26	7.96	13.5	- 548	8.02
12	8.6 8.3	8.5	8.55	01	0.25	8.80	m.s.	,	,
13	9.2 8.9	9.3	9.25	01	-0.20	9.05			
14		10.1			-0.74	9.36			
15		10.4			-0.90	9.50			
16		9.9			-0.61	9.29			
17	9.2 8.9	9.1	9.15	01	-0.16	8.99			
		11.35 1 0							
18		11.3 11.4			-1.34	10.01			
		11.25 0 1							
19		11.2 11.3			-1.30	9.95			
		11.10 0 0							
20		11.1 11.1			-1.24	9.86			
		12.10 0 0							
21		12.1 12.1			-1.64	10.46			
		11.20 0 0							
24 ~~23~~		11.2 11.2			-1.29	9.91	12.1		
		13.05 1 2					129	Evidently disc. magns. due to	
23		12.9 13.2			-1.94	11.11	11.2	Errors of identification.	
		12.10 0 0						Star 22 prev. meas. = 24.	
22 ~~24~~		12.1 12.1			-1.64	10.46		Star 24 " " = 22	
		13.35 1 0							
25		13.3 13.4			-2.01	11.34			
		13.40 0 0							
26		13.4 13.4			-2.02	11.38			
27		m.s. m.s.			,	,			

Reduced as above. H.S.L.
July 3, 1917.

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Monday January 24, 1916.

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Scale R

Mc Series 589 YELLOW

Mc 9840 C3 Diffr. Inc. 5 +15°

	g α_1^2		h α_2	Cu.	Magn
1	11.6	11.50 1 1	11.4	-490	6.60
2	11.5	11.45 1 0	11.4	-488	6.57
3	11.3	11.35 1 0	11.4	-483	6.52
4	12.9	13.00 1 1	13.1	-543	7.57
5	13.4	13.45 0 1	13.5	-546	7.99
6	13.5	13.55 1 0	13.6	-546	8.09
7	13.4	13.50 1 1	13.6	-546	8.04
8	13.1	13.10 0 0	13.1	-544	7.66
9	n.s.		n.s.	.	.
9b	13.9	13.70 2 1	13.5	.	.
10	t.p.		13.3	-545	7.85
11	13.7		t.p.	.	.
12	n.s.		n.s.	.	.
13	n.s.		n.s.	.	.
14	n.s.			.	.
15					
16					

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Monday January 24. 1916.

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Scale R Mc Series 589 YELLOW Card.

Mc 9841 Eros 1901 5 10+17.5 Alt +10

~~Dec~~. Differ Inv. P.C.

		Sc.1	sc.2	sc.2	Cu	Magn	sc.2	sc.2
	1		9.6		-0.44	9.16		
	2		10.5		-0.95	9.55		
	3		11.10 00 11.1	11.1	-1.29	9.81		
	4		11.70 00 11.7	11.7	-1.47	10.23		
	5		11.55 01 10.6	10.5	-1.44	10.11		
	6		12.40 00 12.4	12.4	-1.75	10.65		
	7		12.45 01 12.4	12.5	-1.76	10.69		
	8		13.80 00 13.8	13.8	.	.		
	9		12.40 00 12.4	12.4	-1.75	10.65		
	10		13.40 00 13.4	13.4	-2.03	11.37		
	11		1	1	.	.		
	12		1	1	.	.		
Feb. 25	A	8.6 8.3		8.1	865 01	0.21	~~8.86~~	
	B			10.1		-0.74	9.36	
	D	7.6 7.3		13.		0.85	8.45 ~~6.75~~	
Feb. 23	A	9.1 8.8		9.1 ~~8.1~~	9.10 00	-0.10	9.00	
	B			10.1		-0.74	9.36	
	C			11.5		-1.41	10.09	
	D	7.8 7.5		13		0.72	8.52 ~~8.08~~	
	a			13.3		-2.00	11.30	
	b			1. [illegible]		.	.	
	d			13.4		-2.03	11.37	

over

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Monday January 24. 1916.

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Scale R. Mc Series 589 YELLOW

m_{λ}^{c} 9847' Eros 1901 5 10+17 5

Feb. 22

		sc.1	sc.2	sc.3	Cu.	Magn
		7.4				
A	f.1	B			0.95	8.35
		8.1				
B	f.8	B.			0.56	8.66
		12.20 0 0				
C		12.2	12.2		-.168	10.52
		9.2				
D	8.9	9.4	9.30	1 1	-.022	9.08
		10.75 L 0				
a		10.7	10.8		-.106	9.69
		12.20 0 0				
b		12.2	12.2		-.168	10.52
		13.10 0 0				
d		13.1	13.1		-.195	11.15
e		~~13.10 0 0~~	wrong star marked			
		~~13.1~~	~~13.1~~		~~-.195~~	~~11.15~~
f		7.	13.5		-2.00	11.50
g?		12.2			-.168	10.52

Seq for mn. f	150	13.4	-.203	11.37
	151	n.s.		"
	591	n.s.		"
	592	n.s.		"
	147	n.s.		"

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1015phec.proj.10710

Monday January 24. 1916

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Scale R Mc Series 589 YELLOW Mc 9848 [2] Eros 1901 5 ~~50~~ [20] + ~~15.5~~ [15.0] Alt + 10

		Sc.1	Sc.2	Cw.	Magn	Diff. Im. Sc.2	Diff. Im. Sc.2			P.C. Sc.2		
						g	h					
	1	~~8.~~ 5.9 56	B.	164	7.54	13.10 00 13.1	13.1	- 5.44	7.66	13.1	- 5.46	7.64
	2	7.8 7.5	B	072	8.52	‡.	‡.	.		14.0? ‡.		
~~Feb 27 i =~~	3	9.2 8.9	9.25 01 9.3	-.019	9.06							
	4		10.5 10.85 01	-.095	9.55							
	5		10.8 10.9 11.60 L1	-.110	9.75							
	6		11.5 11.7 12.10 00	-.145	10.15							
	7		12.1 12.1 12.30 00	-.164	10.46							
	8		12.3 12.3 12.50 L1	-.170	10.60							
	9		12.4 12.6 13.00 L1	-.177	10.73							
	10		12.9 13.1 13.40 00	-.192	11.08							
Feb 26 J =	11		13.4 13.4 13.40 00	-.203	11.37							
~~Feb 27 i =~~	12		13.4 13.4	-.203	11.37							
Feb. 27	A	R3				10.50 00 10.5	10.5	.		10.9	.	
wrong star marked.	~~B~~		~~‡ ‡~~ 11.30 00			ns	n.s.	.		n.s.	.	
dbl? wrong star marked	~~B~~		~~11.8 11.3~~	~~-.132~~	~~9.98~~					n.s.	.	
Feb. 26	K		‡. ‡ 13.40 00									
Prob. not ϕ	~~A~~		13.4 13.4 13.10 00	-.203	11.37							
	a		13.1 13.1 10.70 00	-.195	11.15							
	B	8.6	10.1 10.1	-.104	9.66							
	A	8.3	8.6	022	8.82							
Feb. 25	B		10.3	-.082	9.48							
	C		10.6	-.100	9.60							
	D	7.4 7.1	B.	0.95	8.35							
	a		10.1	-.104	9.66							
	b		12.1	-.164	10.46							

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Monday January 24, 1916.

Scale R

Mc Series 589 YELLOW

Mc 98472 Eros 1901 ~~6 10 12.5°~~ 5 20 15

	sec z	Cu	Magn
c	13.1?	1.95	11.15?
d	13.4	2.03	11.37
e	13.4	2.03	11.37
α	11.7	1.47	10.23
β	12.1	1.84	10.86
f	✝	.	.

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Monday January 24. 1916

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Scale R

Mc Series 589 YELLOW

Mc 9843 Eros 1901 5 50 +12.5 Alt +09

		sc.1	sc.2		Cw.	Magn	g h sc.2	sc.2			P.C. sc.2	
	1	6.1 5.8			1.54	7.64	13.25 01 13.2	13.3	-.544	7.81	13.4	-.548 7.92
	2	7.0 6.1			1.15	8.15	t.p.	14.0	.	.	†	.
	3	8.1 7.8	B.		0.55	8.65	n.s.	n.s.	.	.	n.s.	.
	4	8.4	8.8	8.75 1 0	0.12	8.87						
	5		10.2		-0.78	9.42						
	6		10.4		-0.90	9.50						
	7		11.1		-1.24	9.86						
	8		11.50 1 1 11.6	11.4	-1.41	10.09						
	9		12.10 0 0 12.1	12.1	-1.64	10.46						
	10		12.30 1 1 12.2	12.4	-1.70	10.60						
	11		13.30 1 1 13.4	13.2	-2.00	11.30						
	12		13.35 0 1 13.4	13.3	-2.01	11.34						
March 8	A		9.8		-0.57	9.23						
	B		9.9		-0.60	9.30						
	C		10.10 0 0 10.1	10.1	-0.74	9.36						
	D		11.60 0 0 11.6	11.6	-1.46	10.14						
	E		11.30 0 0 11.3	11.3	-1.32	9.98						
	a		t.p.	t.p.	.	.						
	b		12.20 0 0 12.2	12.2	-1.68	10.52						
	c		t.p.	t.p.	.	.						
	d		12.95 0 1 13.0	12.9	-1.90	11.05						
	e		t.p.	t.p.	.	.						
	f		t.p.	t.p.	.	.						

(over)

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Monday January 24, 1916 –

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Scale R

Mc Series 589 YELLOW

Mc 9843 Eros 1901 cont 5 50 +12.5 alt. +.09

		sc.1	sc.2		Diffr'n sc.2 − sc.1 g	h	P.C. sc.2	
Mar. 9	A	B. 7.6			11.00	11		
					11.1	10.9	− 4.66	6.34	11.21	−5.00	6.20
	B	1.5		0.72	8.52		m.s.	
	~~C~~		~~Fab~~	.	,			
	D	89 86	90	8.95	1.0	0.00	8.95	
	a		12.4	−1.75	10.65			
	f		10.55 10.5	1.0 10.6	−.98	9.57		
	c	~~def?~~	~~12.11~~ 12.40	? 0.0	.	,	12.85	2.3	−1.87	10.98
	d		12.4	12.4	−1.74	10.66		
	e		12.35 12.4	0.1 12.3	−1.72	10.63		
	f		t.p.	t.p.	.	,		
	g		1.		.	,		

Same star. Image is poor, but neither measure is wrong.

Re-examined Mar. 25. not def. Im. poor

12.15

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1915phae.proj.10710

Monday January 24, 1916 –

Scale R NOTE: MC Series 589. YELLOW

mc 9844 Eros 1901 6 10 + 12.5 Alt + 09

	sc1	sc2	sc7	Cw.	Magn	Diffr Inn. g h	Cw.	Magn	D.C. sc2	Cw	Magn
1	B.			.	.	11.15 10 11.1 11.2	– 4.73	6.42	11.6	– 5.13	6.47
2	5.3			1.77	7.37	12.35 01 12.4 12.3	– 5.28	7.07	12.6	– 5.39	7.21
3	6.8	B		1.10	8.20	13.4 +.r.	– 5.45	7.95	7.	.	.
4	7.5	B		0.73	8.53	7 7	.	.			
5	8.5	8.9	8.85 01	0.06	8.91				m.s.	.	.
6		9.8		-0.56	9.24						
7		10.5		-0.94	9.56						
8		11.10 00 11.1 11.1		-1.23	9.87						
9		12.10 00 12.1 12.1		-1.64	10.46						
10		12.35 01 12.4 12.3		-1.72	10.63						
11		13.10 00 13.1 13.1		-1.95	11.15						
12		13.20 11 13.1 13.3		-1.98	11.22						

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Tuesday January 25. 1916.

Sheet No 256

Scale R

Mc Series 187 - YELLOW

10 - Mc4679 Pole.

				Diff.		sc.1	sc.2	Mc4684 sc.1	sc.2	P.C. sc.2	sc.2	Mc4684 O.C. sc.2	Diff
4.20	0	0	2.23		5	4.2 3.9		4.2 3.9		11.70 00 11.7	11.7	11.7	11.70 00 00 - 527
5.85	1	0	1.13		6	5.9 5.6		5.8 5.5		12.45 01 12.4 12.5	12.4	12.4	12.42 03 02 - 544
7.35	2	3	0.68		8	7.6 7.3	B.	7.1 6.8	B.	n.s. 14.1?	13.7	13.7	13.90 20 20 - 587
8.78	02	03	- 0.04		9	8.9 8.6	8.1 8.80 1 1	8.8 8.5	8.1 8.75 01	n.s	n.s.	n.s.	, ,
9.18	23	22	- 0.30		10		9.4	9.0 8.1	8.9 8.95 01				
10.25	1	0	- 0.89		11		10.3		10.2				
10.40	0	0	- 0.82		12		10.4		10.4				
11.35	1	0	- 1.27		13		11.3		11.4				
11.58	03	02	- 1.34		14		11.55 01 11.6 11.5		11.60 1 1 11.5 11.7				
12.18	07	08	- 1.54		15		12.25 01 12.2 12.3		12.10 00 12.1 12.1				
12.62	13	12	- 1.68		16		12.75 01 12.8 12.7		12.50 00 12.5 12.5				
12.78	07	08	- 1.74		17		12.85 10 12.9 12.8		12.70 1 1 12.8 12.6				
13.42	23	22	- 1.86		18		13.65 01 13.6 13.7		13.20 00 13.2 13.2				
,		,			19		7 7		13.8?				
,		,			20		n.s.		n.s.				
,		,			23		.		n.s.				

12:35

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Scale R. Mc Series 187. YELLOW

Mc 4680 DM 6 10-7.5°

C.C.

	sc.1	sc.2	sc.2	Cu.	Magn	sc.2	Cu.	
	7.7							
1	7.4	B.		0.50	8.20	13.9?	- 5.86	8.04
	8.0							
2	7.7	8.1	8.05 0 1	0.36	8.41	m.s.	.	
	9.1							
3	8.8	9.4	9.25 1 2	-0.24	9.49			
			11.10 0 0 1					
4		11.1	11.1	-1.14	9.96			
			10.60 0 0					
5		10.6	10.6	-0.94	9.66			
			13.40 0 0					
6		13.4	13.4	-1.89	11.51			
			13.35 1 0					
7		13.3	13.4	-1.88	11.47			
8		m.s.	.4	.				
9		m.s.	m.s.	.				
10		m.s.		.				
11								
12								

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Tuesday January 25, 1916 –

Scale R Mc Series 187 YELLOW

Mc 4681 DM . 6 10 + 2.5°

P.C.

	pc.1	pc.2	pc.2		Cw.	Magn	pc.2
1	8.2	8.3	8.40	1 1	020	8.60	n.s.
2	8.9	9.2	9.20	0 0	-0.23	8.97	n.s.
3	11.2	11.1	11.15	0 1	-.117	9.98	
4	10.1	10.2	10.15	1 0	-070	9.45	
5	12.6	12.9	12.75	2 1	-.171	11.04	
6	13.3	13.4	13.35	1 0	-.188	11.47	
7	11.6	11.7	11.65	0 1	-.137	10.28	
8	13.5	13.7	13.60	1 1	-.193	11.67	
9	n.s.	n.s.					
10							
11							
12							

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Tuesday January 25, 1916 -

Scale R

Mc Series 187 YELLOW

Mc 4682 Eros 1901 6 10 +12.5

P.C.

	sc1	sc2	Cw	Magw	sc2	sc2	Cw	
					11.90	2.2		
1	B.		.	.	11.7	12.1	-.529	6.61
	6.7				12.80	0 0		
1	5.9		1.09	7.29	12.8	12.8	-.558	7.25
	7.8							
3	7.5	B.	0.44	8.24	‡	‡	.	.
	8.1							
4	7.8	B	0.34	8.44				
5		9.3	-0.26	9.04				
		9.95 0 1						
6		10.0 9.9	-0.58	9.37				
		10.55 0 1						
7		10.6 10.5	-0.90	9.65				
		11.35 1 0						
8		11.3 11.4	-1.24	10.11				
		11.90 3 3 0						
9		11.6 12.2 11.9	-1.45	10.45				
		12.25 1 0						
10		12.3 12.2	-1.57	10.68				
	*	13.40 0 0						
11		13.4 13.4?	-1.89	11.51				
12		t.p.	.	.				

* Image very sharp!

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MG 4683 B3 6 to +45° Alt +13

Q.C.

	sc.1	sc.2		Cu	Magn	Sc.	sc2	Cu.	Magn
						10855 10			
1	B.			.	.	10.7	10.8	.	.
	40					11.35 1 0			
2	3.1			2.00	6.00	11.3	11.4	.	.
	57					12.60 1 1			
3	5.4			1.30	7.00	12.7	12.5	-5.50	7.10
	60								
4	5.1			1.16	7.16	sup?	def?	.	.
	49					11.70 0 0			
5	46			1.65	6.55	11.7	11.7	-5.23	6.47
	68					13.25 0 1			
6	6.5	B.		0.83	7.63	13.2	13.3	-5.68	7.57
	76								
7	7.3	B.		0.52	8.12	n.s.	n.s.	.	.
7a	8.5	8.7	8.75 0 1	0.02	8.77	n.s.	n.s.	.	.
	79								
8	7.6	B.		0.42	8.32	n.s.		.	.
	76								
9	7.3	B.		0.52	8.12				
10		9.9		-0.56	9.34				
11		9.6		-0.44	9.16				
	9.1								
12	8.8	9.21	9.15 1 0	-0.20	8.95				
13		9.6		-0.44	9.16				
14		10.1		-0.68	9.42				
		10.45 0 1							
15		10.4	10.5	-0.84	9.61				
		9.80 0 0							
16		9.8	9.8	-0.52	9.28				
		11.50 0 0							
17		11.5	11.5	-1.30	10.20				
		9.55 0 1							
18		9.6	9.5	-0.40	9.15				
		11.35 0 1							
19		11.4	11.3	-1.26	10.09				
		12.85 0 1							
20		12.8	12.9	-1.75	11.10				
		12.10 0 0							
21		12.1	12.1	-1.51	10.59				
21a		12.88 0 1	12.9	-1.75	11.10				
		13.30 1 1							
22		13.4	13.4	-1.86	11.44				
22a		13.4	13.40 0 0	-1.89	11.51				
23		t.p.	t	.					
24		t	t	.					
25		n.s.	n.s.	.					
26		n.s.		.					
27		n.s.		.					

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Mc 46 8.57 D4 T −15° Alt −10

	sc.1	sc.2		Qu.	Magn.	sc.2	sc.2	Qu.	Magn.
						Q.C.			
1	B			.	.	12.60 00 12.6	12.6	−5.50	7.10
near edge 2	B.			.	.	t.f.	t.f.	.	.
3	7.45 7.2			0.56	8.06	n.s.	T.	.	.
4	6.60 5.1			1.18	7.18	12.60 00 12.6	12.6	−5.50	7.10
5	8.2 7.9	B.		0.29	8.49	n.s.		.	.
6	8.5 8.2	8.3	8.40 1 L	0.20	8.60	n.s.	n.s.	.	.
7	6.7 6.4	B.		0.87	7.57	13.6		−5.78	7.82
8		9.4		−0.32	9.08	n.s.		.	.
9	5.9 5.6	B		1.21	7.11	13.1		−5.64	7.46
10		9.5		−0.37	9.87 13	n.s.		.	.
11		9.8		−0.52	9.28				
12		9.1		−0.15	8.95				
13	8.2 7.9	8.2	8.20 00	0.29	8.49				
14		11.20 00 11.2	11.2	−1.19	10.01				
15		10.60 00 10.6	10.6	−0.94	9.66				
16		9.35 0 L 9.4	9.3	−0.30	9.05				
17		12.10 00 12.1	12.1	−1.51	10.59				
18		12.00 L 1 11.9	12.1	−1.49	10.51				
19		11.40 00 11.4	11.4	−1.27	10.13				
20		12.15 0 L 12.2	12.1	−1.54	10.61				
21		12.85 0 1 12.8	12.9	−1.75	11.10				
22		13.10 00 13.1	13.1	−1.81	11.29				
23		T.	13.1	−1.95	11.75				
24		12.85 1 0 poor 12.9	12.8	−1.75	11.10				
25		n.s.	n.s.	,	,				
26		n.s.	n.s.	,	,				

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Scale R

Mc Series 187 – YELLOW

Mc 4686 Dm 7 –5.0°

P.C.

	sc.1	sc.2	sc.3	Cw	Magn	sc.7
	10.00	11				
1	10.1	9.9		–0.62	9.38	
	10.80	11				
2	10.7	10.9		–0.52	10.28	
	12.20	0 0				
3	12.21	12.2		–1.55	10.65	
	12.15	1 0				
4	12.1	12.2		–1.53	10.62	
	12.35	0 1				
5	12.4	12.3		–1.60	10.75	
	12.45	0 1				
6	12.4	12.5		–1.63	10.82	
	13.40	00				
7	13.4	13.4		–1.89	11.51	
8	m.s.	m.s.		.	.	
9	7.	7.		.	.	
10	7			.	.	
11	m.c.			.	.	
12						

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Scale R

Mc Series 187- YELLOW

Mc 4687 Dm γ +5.0°

P.C.

	sc.1	sc.2	sc.3	Cu.	Magn	sc.4
1	69 6.6	B		0.80	7.70	134 - 5.72 7.68
2		10.10 10.1	00	-0.67	9.43	
3		11.45 11.3	1/2 11.6	-1.29	10.16	
4		12.80 12.8	00 12.8	-1.74	11.06	
5		13.15 13.2	0/ 13.1	-1.82	11.33	
6		t.f.	t.f.	"	"	
7		ns		"	"	
8		n.s.		"	"	
9		ns		"	"	
10						
11						
12						
13						
14						

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Scale R Mc Series 187 YELLOW

Mc 4688 C4 Alt + 09

P.C.

	sc.1	sc.2		Cu	Magn	sc.1	sc.2	Cu	Magn
	6.1					12.7 00			
1	5.8			1.13	7.23	12.7	12.1	- 5.52	7.18
	6.8					13.10 00			
2	6.5			0.82	7.62	13.1	13.1	- 5.64	7.46
	6.0					12.55 1 0			
3	5.7			1.17	7.17	12.5	12.6	- 5.49	7.06
	6.2					12.65 01			
4	5.9			1.10	7.30	12.6	12.7	- 5.51	7.14
4a	6.9	B.		0.68	7.88	n.s.	13.7	- 5.79	7.91
5	8.1	9.4	9.20 2 2	-0.10	9.10	n.s.	n.s.	- "	"
	6.7					13.10 00			
6	6.4	B		0.87	7.57	13.1	13.1	- 5.64	7.46
	7.8								
7	7.5	B.		0.45	8.25	n.s.	n.s.	"	"
8		10.0		-0.63	9.37	n.s.	n.s.	"	"
	8.6								
9	8.3	8.7	8.65 0 1	0.09	8.74				
9a		10.2		-0.73	9.47				
10		10.9		~~-0.73~~ -0.96	9.84				
		11.90 1 1							
11		12.0 11.8		-1.45	10.45				
		1035 1 0							
12		10.3 10.4		-0.80	9.55				
		1045 1 0							
13		10.5 10.4		-0.85	9.60				
		1230 00							
14		12.3 12.3		-1.59	10.71				
		12.50 1 1							
15		12.6 12.4		-1.65	10.85				
		12.70 1 1							
16		12.9 12.8		-1.70	11.00				
		1265 1 2							
17		12.5 12.8		-1.69	10.96				
18		13.5 ~~13~~ ft.		-1.91	11.59				
		1285 01							
19		12.8 12.9		-1.75	11.10				
		1335 1 0							
20		13.3 13.4		-1.88	11.47				
21		7. 7.		"	"				
22		n.s. n.s.		"	"				
23		n.s.		"	"				
24									
25									
26									

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Scale R Mc Series 187 YELLOW

Mc 4689 Carte 4 + 25°

				Cu	Magn	B.C.			
	sc.1	sc.2				sc.1	sc.2		
	5.8					12.40 00			
1	5.5	B.		1.25	7.05	12.4	12.4	-5.44	6.96
	9.1								
2	8.8	9.1	9.10 00	-0.15	8.95	m.s.	m.s.		
3		10.1		-0.98	9.72				
		11.15 0 1							
4		11.2	11.1	-1.17	9.98				
		12.45 2 1							
5		12.6	12.3	-1.63	10.82				
		13.15 0 1							
6		13.2	13.1	-1.81	11.34				
		13.35 0 1							
7		13.4	13.3	-1.88	11.47				
8		4?	4	.	.				
		13.40 00							
9		13.4	13.4	-1.89	11.51				
10		m.s.	m.s.		.				
11			m.s.		.				
12									

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Wednesday January 26, 1916.

Sheet No 256

Scale R-

10 – 10

Mc series 604 - YELLOW

Mc 10011 Pole -

Mc 10016

	sc.1	sc.2	sc.1	sc.2							
5	B.		B.								
6	5.8 5.5		5.6 5.3								
8	8.0 7.7	B.	7.4 7.1	B.							
9		9.1	8.5 8.2	8.4	8.45	1	0	8.48	02	03	0.26
10		9.4 9.3	9.0 8.7	8.8	8.90	1	1	9.12	23	22	0.24
11		10.4 10.4		10.2				10.30	10	10	– 0.94
12		10.7 10.7		10.2 10.3				10.48	22	23	– 0.90
13		11.7 11.6		11.3 11.4				11.50	15	15	– 1.42
14		11.8 11.8		11.5 11.7				11.70	10	10	– 1.46
15		12.6 12.5		12.2 12.3				12.40	15	15	– 1.76
16		13.3 13.3		12.8 12.7				13.02	28	27	– 2.08
17		13.4 13.4		13.1 12.9				13.20	20	20	– 2.16
18		13.5? 13.5		13.4 13.4				13.45	05	05	– 1.89
19		" "		" "				"		"	
20				m.s.				"		"	

	Pc.	Pc.	Pc.
	A	B.	sc.2 sc.2
		11.60	2 2
	,	11.8	11.4
		12.60	2 2
	5.70	1 1	12.8 12.4
	7.70	3 3	0.33 " 13.4
	8.90	1 1	9.12 23 22 0.24

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Scale R Mc Series 604- YELLOW

	Mc 10011		Tele		Diffr. Ins.
			Mc10016.		
	g	h	g	h.	
	sec	sec	sec	sec	
	11.45	10	11.00	11	
5	11.5	11.4	11.1	10.9	11.22 23 22 – 479
	12.65	10	12.20	00	
6	12.7	12.6	12.2	12.2	12.42 23 22 – 5.44
	13.75	12	13.50	11	
8	13.9	13.6	13.6	13.7	13.62 13 12 – 5.59
9	m.s.	m.s.	m.s.	m.s.	, ,
10					
11					
12					
2					

12

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Scale R Mc Series 604 YELLOW

Mc 10012 C 5 Alt +10

P.C.

	pc.1	pc.2		Cw.	Magn	pc.2	Cw.	
1	B.			.		11.7	−.524	6.46
2	6.4 (6.1)			0.90	7.60	13.5	−.544	8.06
3	B.			.	.	11.5	.	.
4	5.6 (5.4)			1.21	7.11	12.8	−.543	7.37
4a	7.5	B		0.39	8.19	″	.	.
5	7.9 (8.2)	B.		0.22	8.42			
6	9.4			−0.38	9.02			
7	7.2 (7.5)	B.		0.56	8.06	13.5	−.544	8.06
8	9.7			−.065	9.25	n.s.	.	.
9	8.3 (8.6)	8.4	8.50 1 1	0.10	8.60			
10	9.6			−0.49	~~10.09~~ → 9.11			
dbl.	12.6			−.186	10.74			
11	10.1			−0.76	9.34			
12	10.65 1 0 10.1	10.6		−1.00	9.65			
12a	10.85 0 1 10.8	10.9		−1.10	9.75			
13	10.65 1 0 10.1	10.6		−1.00	9.65			
14	9.50 0 0 9.5	9.5		−.045	9.05			
14a	12.75 0 1 12.2	12.3		−1.71	10.54			
15	10.55 0 1 10.6	10.5		−.98	9.57			
16	13.05 0 1 13.0	13.1		−1.98	11.07			
17	12.60 0 0 12.6	12.6		−1.87	10.73			
18	12.75 1 0 12.7	12.8		−1.90	10.85			
19	12.95 2 1 12.8	13.1		−1.95	11.00			
20	13.75 2 1 13.6	13.9		.	.			
21	″	″		.	.			
22	n.s.	n.s.		.	.			
23	n.s.	n.s.		.	.			
24	n.s.			.	.			
25								

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Wednesday January 26, 1916–

Scale R Mc Series 604 YELLOW

Mc 10012 C 5 Diffr. Im.

	g	h			
	sc.1		sc.2	Cu	Magn
1	11.3	11.35 1 0	11.4	-493	6.42
2	13.5	13.50 0 0	13.5	-559	7.91
3	11.3	11.20 1 1	11.1	-486	6.34
4	12.6	12.55 0 1	12.5	-545	7.10
4a	‡		‡		
5	n.s.		n.s.		
6	ns		n.s.		
7	‡		‡		
8	n.s.		ns		
9	n.s.		n.s.		
10					
11					
12					

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1915phae.proj.10710

Wednesday January 26, 1910.

Copied B 23:172

Scale R

Mc Series 604 YELLOW

Card.

* Mc 10013 D 5 9 - 15° Alt -11

P.C.

		sc.1	sc.2		Cu.	Magn	sc.		
edge	1	B.			.		t.p.	.	
	2	5.5 5.2			1.35	6.85	12.8	-.544	7.36
	3	B.			.	.	11.5	.	.
	4	6.6 6.3			0.93	7.53	13.9	.	.
edge	5	7.0 6.7			0.79	7.79	~~13.4~~		
	6	7.9 7.6	B.		0.35	8.25			
	7	8.2 7.9	8.1	8.15 0 1	0.24	8.39			
	8	7.7 7.4	B.		0.45	8.15			
	9	7.4 7.1	B.		0.69	8.09	n.s.		
	10	7.8 7.5	B.		0.39	8.19			
	11	8.1 7.8	8.1	8.10 0 0	0.26	8.36			
	12		10.1		-0.75	9.35			
	13		10.5	10.4	-0.90	9.55			
	14		9.4	9.4	-0.38	9.02			
	15		11.2	11.6	-1.37	10.03			
	16		9.6	9.5	-0.46	9.09			
	17		10.5	10.6 poor	-0.98	9.57			
	18		t.p.	t.p.	.	.			
	19		11.5	11.5	-1.40	10.10			
	20		13.4	13.4	-2.03	11.37			
	21		12.1	12.1	-1.65	10.45			
	22		?	?	.				
	23		?	?	.				
	24		n.s.		.				
	25		n.s.		.				
	26		n.s.		.				

* all images elongated. - difficult to compare with scale

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Wednesday January 26, 1916.

Scale R Mc. Series 604. YELLOW

Mc 10013 D5 Diffr. Inn. 9 – 15°.

	g sc.2	h sc.1	Cu	
1	12.1	t.p.	-5.27	6.83
2	t.p.	12.3	-5.35	6.95
3	10.5	10.80 3/3	11.1	.
4	13.4	13.40 0/0	13.4	-5.59 7.81
5	13.4	13.35 0 1/	13.3	-5.58 7.77
6	t	t	.	.
7	m.s.	t.	.	.
8	m.s.	m.s.	.	.
9	m.s.		.	
10				
11				
12				
13				
14				

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Wednesday January 26-1916.

Scale R

Mc Series 604 YELLOW

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Mc 100,184 Eros 1901 9 0 0.0 Alt +.03

Diffr. Inv. P.C.

	sc.1	sc.2	Cu.	Magn	g	h	Cu	sc.2 Cu.
1	42 3.9		.	.	sc.2 sc.1 12.18 12.1 01 12.2 12.1	-5.30	6.85	12.6 -5.42 7.18
2	6.9 foor 6.6	B	0.83	7.73	12.40 00 12.4 12.4	-5.40	7.00	12.5 -5.44 8.06
3	7.1 6.8	B.	0.75	7.85	13.40 00 13.4 13.4	-5.59	7.81	t.p. , ,
4	85. 8.2	8.6	8.55	1 0.07	8.62	n.s. n.s.	, ,	n.s. , ,
5	10.40 00 10.4	10.4	-.090	9.50				
6	10.65 10 10.5	10.6	-.100	9.65				
7	t.p.	11.3	-.132	9.98				
8	t.p.	t.p.	,	.				
9	12.30 11 12.4	12.2	-.174	10.56				
10	13.20 00 13.2	13.2	-.200	11.20				
11	13.40 00 13.4	13.4	-.204	11.36				
12	t.	t.	.	.				
13	n.s.	n.s.	.	.				

Lyon sequence
On extreme edge.

A	t.p.		,		n.s.			n.s.
B	11.3		-.132	9.98				
May 4. C	B.		,	,	12.20 00 12.2 12.7	-5.31	6.89	12.4 -5.40 7.00
a	def?		,	,				
b	n.s.		,	,				
c	n.s.		,	-				

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Saturday January 29, 1916 -

Sheet No 261

Scale R

10.15

Mc Series 610 - YELLOW

Mc 10078 Pole -

10083?

PC.

	sc.1	sc.2		sc.1	sc.2		Diff	sc.2	sc.2	Diff
5	B			B.			. .	11.35 ≏ 1 11.21	11.5	72 - 4.86
6	5.7 4.9			t.h.		5.20 a	7 .188	12.15 1 0 12.1	12.2	17 - 5.8X
8	7.4 7.1	B.		7.4 7.1	B.	7.40 0 0	6 0.83	13.10 0 0 12.1	13.1	507 - 4.8X
9	8.4 8.1	8.3	8.35 0 1	8.7 8.4	8.8	8.75 1 0	8.55 20 20 19 0.28	13.4 poor	??	66 - 4.5X
10	8.6 8.3	8.1	8.65 0 1	9.1 8.8	8.8	8.95 1 2	8.80 15 15 08 0.22	m.s.?	m.s.	
11		9.8			10.1		9.95 2 1	5 - 0.19		
12		10.1			10.21		10.15 1 0	57 - 0.2X		
13		11.1			11.21		11.15 1 0	107 - 0.85		
14		11.20 0 0 11.21 11.21			11.45 1 0 11.5 11.4		11.32 12 13	108 - 0.8X		
15		11.80 1 1 11.9 11.7			12.15 1 0 12.1 12.2		11.98 18 17	134 - 0.8X		
16		12.20 0 0 12.3 12.2			12.50 0 0 12.5 12.5		12.35 15 15	141 - 0.8X		
17		t.h. t.h.			12.55 0 1 12.6 12.5		12.55 . a	151 - 0.8X		
18		13.10 0 0 13.1 13.1			13.1 t.h.		13.10 0 0 0	154 - 0.8X		
19		13.35 1 0 13.3 13.4			13.65 0 1 13.7 13.6 13.8		13.50 15 15	156 - 0.8X		
20		13.6 t.h.?			t.? m.s		13.60 a 1	141 - 0.8X		
23		m.s. m.s.					.	.		
25										

All faint stars are poor. Comps. unit scale difficult

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Saturday January 29, 1916.

Scale R

Mc 610 YELLOW

	Mc 10078 g	h	Pole. 10083. g		Diff. Im.			
	sc 2	sc 2	sc 2	sc 2				
	10.70	00	11.15	01				9
5	10.7	10.7	11.2	11.1	10.92	22	23	- 448
	11.70	00	11.70	00				72
6	11.7	11.7	11.7	11.7	11.70	00	00	- 458
	12.95	2 1	13.30	00				509
8	12.8	13.1	13.3	13.3	13.12	17	18	- 489
	13.45	10						71
9	13.5	13.4	‡	‡	13.45	a	.	- 462
10	t.p.	t.p.	‡	‡.				
11	n.s.	n.s.						
12								

12.05

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Scale R Mc 610 YELLOW Card.

* Mc 10049 D5 Alt -.12

	sc.1	sc.2		Cu.	Magn	O.C. sc.2	Cu.	Magn
1	B.			.	.	t.p.	.	.
2	B.			.	.	12.4	-5.05	7.35
3	B			.	.	11.5	-4.96	6.54
4	7.4 7.1	B		0.72	8.12	12.9	-5.05	7.85
5	7.7 7.4	B		0.56	8.26	t.p.	.	.
6	8.2 7.9	8.1	8.15 0 1	0.34	8.49	13.4	-4.99	8.41
7	8.5 8.2	8.4	8.45 1 0	0.22	8.67	13.4 poor.	-4.99	8.41
8	8.4 8.1	8.2	8.30 1 1	0.30	8.60	13.4	-4.99	8.41
9	8.0 7.7	8.1	8.05 0 1	041	8.46	13.2	-5.01	8.19
10	8.4 8.1	8.3	8.35 0 1	0.26	8.61	13.6	-4.96	8.64
11	8.7 8.4	8.1	8.70 0 0	0.13	8.83	t.p.	.	.
12		10.3		-0.69	9.61	n.s.	.	.
13		10.8	10.75 0 1 10.1	-0.90	9.85			
14		10.1	10.10 0 0 10.1	-059	9.51			
15		11.3	11.35 1 0 11.4	-1.12	10.23			
16		9.4	9.63 2 3 0 9.9 9.6	-0.34	9.29			
17 poor.		10.1	10.60 1 1 10.5	-084	9.76			
18		12.1	11.90 ?2 2 11.7? poor	-1.31	10.59			
19		11.7	11.70 0 0 11.7	-1.24	10.46			
20		12.1	12.75 1 0 12.8	-1.50	11.25			
21		12.1	12.15 1 0 12.2	-1.39	10.76			
22		13.1	13.15 1 0 13.2	-1.51	11.64			
23		13.1	13.00 1 1 12.9	-1.52	11.48			
24		7.	13.6?	-1.46	12.14?			
25		13.4	13.40 0 0 13.4	-1.50	11.90			
26		n.s.	n.s.	.	.			
27		n.s.	n.s.	.	.			

* Images all over plate are poor -

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Saturday January 29, 1916.

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Scale R

Mc 6 10. YELLOW

	Mc 10019 g	h	D 5 Cu.	Diffr. Inv.
1	t.p.	t.p.	.	
2	12.5 12.45 10	12.4	-4.83	7.62
Out of focus? 3	.	.	.	.
4	t.p.	t.p.	.	.
5	13.4 13.25 21	13.1	-4.88	8.34
6	t	t.	.	.
7	13.4 13.40 00	13.4	-4.88	8.52
8	t.p.	t.p.	.	.
9	t.p.	t.p.	.	.
10	t.p.	t.p.	.	.
11	~~13.1~~ t.p.	t.p.	.	.
12				
13				
14				
15				
16				

Very difficult to compare diffr. images with scale.

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Saturday January 29. 1916 -

Copied B 21; 133

Scale R

Mc 610. YELLOW

Card.

Mc 10080 | Eros 1901 | 9 00 0.0 | Alt +02

Diffr. Inn. | P.C.

	pc.1	pc.2		Cw.	Magn	9 h	Cw.		pc.2	Cw.	
1	B. 14			.	.	11.7 pc.2 11.5 pc.1 11.6	-.471	6.94	12.2	-5.04	7.16
2	7.1			0.72	8.12	def. t.f. 13.10 8.0	.	.	13.2	-5.00	8.20
3	7.2	B.		0.68	8.18	13.1 13.1	-4.88	8.22	13.2	-5.00	8.20
4	8.5	8.1	8.75 01	0.11	8.86	f f	.	.	t.f.	.	.
5		10.3		-0.69	9.61						
6		10.60 00 10.6	10.6	-.083	9.77						
7		11.10 00 11.1	11.1	-1.05	10.05						
8		11.85 10 11.9	11.8	-1.29	10.56						
9		12.10 00 12.1	12.1	-1.37	10.73						
10		12.50 11 12.6	12.4	-1.46	11.04						
11		13.05 21 13.2	12.9	-1.51	11.54						
12		13.40 00 13.4	13.4	-1.50	11.90						
13		13.40 22 13.4	13.8	-1.46	12.14						

Leg for May 4 on extreme edge.

a all

B magn

C

a too

c from

b " m.s.

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Saturday January 29, 1916

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Scale P

Mc 610 YELLOW

Mc 10081 Eros 9 40 – 50° Alt – 01

		sc.1	sc.2		Cu.	Magn	Diffr. Im. g sc.2	Diffr. Im. h sc.2	P.C. sc.2	
	1	6.6 6.3			1.08	7.68	12.50 0 0 12.5	12.5 – 4.84	7.66 12.8 – 5.04	7.76
May 14 A =	2	7.5 7.2			0.68	8.18	t.f.	t.f. . .	t.f.	.
	3	9.0 8.1	9.1	9.05 0 1	–0.03	9.02	″	″ . .	m.s.	.
May 15 D =	4		9.4		–0.21	9.19				
	5		10.3		–0.69	9.64				
	6		11.1		–1.05	10.05				
	7		11.4	11.55 1 0	–1.15	10.25				
	8		11.5?	n.r. 11.6?	–1.20	10.35?				
	9		12.2	12.2 12.20 0 0	–1.39	10.81				
	10		12.4	12.3 12.35 0 1	–1.42	10.93				
	11		13.1	13.2 13.15 1 0	–1.51	11.64				
	12		13.9	13.6 13.75 1 2	–1.44	12.31				
	C									
	A									
	a									
	b									
May 14	A		11.1		–1.05	10.05			m.s.	
	B		def?		.	.			m.s.	
	C		def.		.	.				
	D		11.5		–1.18	10.32				
	E		12.1		–1.36	10.74				
	a		13.4		–1.50	11.90				
	b		t.f.		.	.				
	d		13.4		–1.50	11.90				
	e		m.s. ~~13.4~~		.	.				

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Saturday January 29. 1916.

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Scale R

Mc 16 10. YELLOW

Mc 10081 cont Eros 1901 9 40-5.0

					P.C.
		sc. 1	sc. 2		sc. 2
May 14 cont.	f	~~13.7~~	13.9	.	
	g		m.s.	.	
May 17	A	see no 2			
	B		12.2	-1.39	10.81	m.s.
	C		12.1	-1.36	10.74	
	D		10.9 10.85 10	10.8	-0.92	9.93	
	a		t.f.	.	.	
	b		13.1	-1.51	11.59	
	c		13.3	-1.50	11.80	
	d		def?	.	.	
	g		?	.	.	
	h		?	.	.	
May 20	~~A~~		11.3	-1.11	10.19	
	A ~~B~~		11.5	-1.18	10.32	
	C		t.f.	.	.	
	D		t.f.	.	.	
	E		12.1	-1.36	10.74	
	F		t.f.	.	.	
	G		fff fl.	.	.	
	a		m.s.	.	.	
	b		m.s.	.	.	
	c		m.s.	.	.	

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Saturday January 29. 1916 -

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Scale R.

Mc 610 YELLOW

Mc 100821 Eros 1901 q 50-1.5 Alt -03

Diff. Im P.C.

	RO.1	RO.2	Cu.	Magn.	g	h	Cu.	Magn.	RO.2
					11.15 0 1				
1	B.		.	.	11.21	11.1	- 460	6.55	11.7 - 499 6.71
2	7.6 (7.9)	B.	0.48	8.38	13.1	t.p.	- 488	6.22	m.s. .
3	8.4 (8.7)	8.8	8.75 1 0	0.10	8.85	?	?	.	
4		9.4		-0.20	9.20				
5		10.1 (10.15 1 0)	10.21	-0.61	9.54				
6		10.4 (10.45 0 1)	10.5	-0.75	9.70				
7		11.2 (11.20 0 0)	11.2	-1.08	10.12				
8		12.1	t.p.	-1.36	10.74				
9		12.3 (12.40 1 1)	12.5	-1.44	10.96				
10		12.9 (12.85 1 0)	12.8	-1.51	11.34				
11		13.1 (13.15 1 0)	13.2	-1.51	11.64				
12		t.p.	?	.	.				
									RO.2
May 20 α	A		11.1	-1.05	10.05				
	AB		11.4	-1.15	10.25				
	C		12.1	-1.36	10.74				
	D	7.6	B.	0.61	8.21	t.p.	t.p.		13.4
	E		11.4	-1.15	10.25				
	F		10.8	-0.91	9.89				
	G		10.4	-0.75	9.65				
	b		m.s.	.	.				
	c		t.p.	.	.				

"a, c, uncertain of ident"

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February
Tuesday January 1, 1916

Sheet No. 261

Scale R

8:55 Mc 9846 Mc 590. YELLOW Pole.

Diff		Mc 9851 RC.1	Mc 9851 RC.2		Mc 9857 RC.1	Mc 9857 RC.2		PC. RC.2	Mc 9851 RC.2	Mc 9857. RC.2		Diff
	5	B			B.			11.5	11.6	11.4	11.50	4.32 0 1 1 −5.01
.75	6	3.7 4.9			5.4 5.1			4.8	5 2 3 0 2 1 1 2.3	12.5	12.2	12.33 0 2 1 −5.35
1.88	8	6.8 6.5	B.		6.9 6.6	B.		6.5	6 8 3 0 1 0 1 3 6	13.5	13.7	13.60 0 1 1 −5.37
0.27	9	8.4 8.1	8.4	8 4 0 0 0	8.6 8.3	8.4	8 5 0 1 1	8.5	8 4 7 0 7 0 3 0 3	m.s.	m.s.	
0.05	10	6.8 8.5	8.9	8 8 5 0 1	8.8 8.5	8.9	8 8 5 0 1	8.5	8 8 3 0 2 0 2 0 3			
−0.87	11.		10.2			10.3		10.2 RC.2	10 2 3 0 1 0			
−0.92	12		10.4			10.6		10.5	10 5 0 1 1 0			
−1.32	13		11.4			11.5		11.3 0 0 RC.2 11.3	11.3 11.4 0 0 1 0 1 0			
−1.44	14		11.8		11.8 5 0 1	11.8	11.9	11.4 0 0 0 11.4	11.6 8 12 17 28			
−1.64	15	12.2 5 1 0	12.3	12.2	12.4 5 1 0	12.5	12.4	12.1 5 0 1 12.2	12.2 8 03 17 13			
−1.77	16	12.7 5 1 2	12.9	12.6	12.6 7 1 0	12.6	12.7	12.7 0 1 1 12.8	12.7 1 04 04 01			
−1.93	17	13.1 0 0	13.1	13.1	13.1 0 0	13.1	13.1	12.7 0 1 1 12.8	12.9 7 13 13 27			
−1.92	18	13.4 0 1 1	13.5	13.3	f.	f.		13.5 6 0 1 13.6	13.4 8 08 . 07			
−2.01	19	13.9 5 1 0	13.9	14.0	f.	f.		f.	f. 13.9 5 a . .			
	20		f.	f.								
	23		m.s.									

See also next page

Darks during measures.

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1915phae.proj.10710

Tuesday February 1, 1916.

Scale R.

Mc 590. YELLOW

	Mc 9846		Pole. Mc 9851		Diffr. Inv. Mc 9857					
	g	h	g	h	g	h				
	sc 2	sc 2	sc 2	sc 2	sc 2	sc 2				Diff
5	11.2 11.20 00	11.21	11.30 00 113	113	11.05 1.0 11.1	11.0	11.18	02	12	13	-4.75
6	12.3 12.35 1.0	12.4	12.25 01 12.2	12.3	12.25 01 12.2	12.3	12.28	07	03	03	-5.30
8	13.4 13.40 00	13.4	7.	13.8?	13.35 01 13.4	13.3	13.52	12	28	17	-5.49
9	m.s.	m.s.	m.s.	m.s.	m.s.	m.s.					
10											
11											
12											
13											
14											
15											

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1915phae.proj.10710

Tuesday February 1-1916-

Scale R — Mc Series 590. YELLOW — Epied Bk 21 p. 119

Mc 9847 — Eros 1901 — 6 20 +10. — Alt +08

		sc.1	sc.2		Cu.	Magn	Diffr. 9 h sc.2	Cu.	Magn	B.C. sc.2	Cu.	Magn
α	B.				.	.	10.45 01 10.4 10.5	.	.	10.1	.	.
β	5.6 5.3				1.69	7.29	12.55 ± 0 12.5 12.6	-5.33	7.22	12.1	-5.44	7.26
γ	6.2 5.9	B.			1.45	7.65	13.30 ± 1 13.2 13.4	-5.47	7.83	13.4	-5.55	7.85
1	8.2 7.9	8.1	8.15 01		0.45	8.60	m.s. m.s.	.	.	m.s.	.	.
2	8.6 8.3	8.5	8.55 01		0.21	8.76						
2a	9.0 8.7	9.3	9.15 ± 1		-0.16	8.99						
2b		10.1			-0.74	9.36						
3		10.4			-0.89	9.51						
3a		10.80 ± 1 10.7	10.9		-1.09	9.71						
4		11.90 ± 1 11.8	12.0		-1.52	10.38						
5		12.50 1 1 12.6	12.4		-1.71	10.79						
6		12.65 ± 2 12.5	12.8		-1.76	10.89						
7		13.85 1 0 13.9	13.8		-1.99	11.86						
Mar. 16 *	A	~~111~~										
	B	9.0 8.7	9.2	9.10 ± 1	-0.11	8.99	n.s. n.s.			m.s.		
	C	5.9 5.6	B.		1.58	7.48	12.85 1 0 12.9 12.8	-5.40	7.45	13.1	-5.44	7.66
	D		10.3		-0.84	9.46	n.s. n.s.	.	.			
	E		9.25 1 0 9.3	9.2	-0.20	9.05	.	.	.			
"Identif. uncertain" Note on plate.	* a		11.60 ± 1 ~~11.5~~	~~11.7~~	~~-1.43~~	~~10.17~~						
	b		13.09 ± 1 ~~12.9~~	~~13.1~~	~~-1.83~~	~~11.17~~						
	C		12.80 0 0 12.8	12.8	-1.79	11.01						
	~~E~~		14.0?	?	-2.00	12.00?						
* b	~~f~~		13.10 0 0 13.1	13.1	-1.85	11.25						
	508		13.4		-1.90	11.50						
	509		t.p.		.	.						
	510		t.p.		.	.						
	f											

* Errors in identification

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Tuesday February 1-1916

Scale

Mc Series 590 - YELLOW

Mc 9848 Iris 1904 6 30 +17 5.

	sc.1	sc.2		Cu.	Magn	Diffr. sc.1 sc.2				O.C. sc.2		
						12 55 1.0						
1	B.	B.		.	.	12.5	12.6	- 5.33	7.22	12.8	- 5.46	7.34
2	8.8 8.5	9.1	8.95	± 1	-.002	8.93	n.s.	n.s.	. .	n.s.	.	
3	8.6 8.3	8.5	8.55	0 1	0.21	8.76				n.s.	.	
4	9.2 8.9	9.2	9.20	0 0	-.019	9.01						
5		10.2			-.079	9.41						
6		10.4			-.089	9.51						
*												
7		11.7			-.145	10.25						
		12.30	0 0									
8		12.3	12.3		-.165	10.65						
		12.15	1 0									
9		12.1	12.2		-.161	11.54						
		12.90	0 0									
10		12.9	12.9		-.180	11.10						
		13.10	0 0									
11		13.1	13.1		-.185	11.25						
		13.30	1 1									
*12		13.4	13.2	v.f.	-.189	11.41						
6a			11.21		-.126	9.94						

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Tuesday February 1-1916 -

Scale R Mc Series 590 - YELLOW

Mc 9849 R U Monoc. 6 30 +7.5.

	sc.1	sc.2	sc.3	Cu.	Magn	Diffr. Im 9 h sc.2 12.30.00			P.C. sc.2		
						12.1	13.1				
α	B			.	.	~~12.8~~	~~8.9~~	-.519 6.91	12.3	-.525	7.05
	5.9					12.80 0 0					
a	5.6			1.56	7.46	12.8	12.8	-.539 7.41	13.3	-.554	7.76
b	7.7 7.4	B.		0.70	8.40	n.s.	n.s.	. .	7.	.	
	8.4										
c	8.1	8.1	8.25 2 1	0.41	8.66				n.s.	.	
	8.8										
c'	8.5	8.8	8.80 0 0	0.06	8.86						
	9.3										
c²	9.0	9.3	9.30 0 0	-0.25	9.05						
d		10.1		-0.74	9.36						
d'		10.4		-089	9.51						
e		10.5		-0.96	9.54						
f		10.9		-1.13	9.77						
g		11.3		-1.30	10.00						
g'		t.p. 12.2?		-1.63	10.57?						
		12.25 0 1									
h		12.2 12.3		-1.64	10.61						
		12.25 0 1									
h'		12.2 12.3		-1.64	10.61						
		13.10 0 0									
k		13.1 13.1		-1.85	11.25						
		12.75 0 1									
l		12.8 12.7		-1.78	10.97						
		13.50 0 0 poor									
m'		13.5 13.5?		-1.93	11.57						
Var.		9.3		-0.25	9.05						

(m H Harvard C.S. Ecos) 516 12.7 -1.76 10.94

513 n.s. , ,

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Tuesday February 1-1916 -

Dale R

Mc series 590 - YELLOW

Mc 9850 Eros 1901 6 50+75 Alt. +.07

		sc.1	sc.2	Cu.	Magn	Diffr. Im. sc.1	Diffr. Im. sc.2	P.C. sc.1	P.C. sc.2
Mar. 23.						9 h			
	1	B.		.	.	12.75 1 0			
						12.7	12.8	12.8	
	2	6.2 5.9		1.39	7.59	13.00 1 1			
						12.9	13.1	13.3	
	3	7.4 7.1	B.	0.85	8.25	7	7.	7?	
	4	9.2 8.9	9.7	9.30 1 1 -0.25	9.05	n.s.	n.s.	n.s.	
A	α		9.5	-0.38	9.12				
	D		10.4	-0.89	9.51				
	E		10.5	-0.96	9.54				
	B		11.20 0 0 11.2	11.2 -1.26	9.94				
	C		11.30 0 0 11.3	11.3 -1.38	9.92				
	c'		12.20 0 0 12.2	12.2 -1.63	10.57				
	b		12.60 1 1 12.5	12.7 -1.75	10.85				
	519		13.10 0 0 13.1	13.1 -1.85	11.25				
	ε		tp.	tp.	.	.			
			1366 0 1						
	δ		13.6	13.7 -1.96	11.69				
	517		7.	7.	.	.			

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Tuesday February 1, 1916 -

Scale R

Mc Series 590 - YELLOW

Mc 9852 Iris 1904 6 50 + 17.5

		sc.1	sc.2 − sc.2		Cu.	Magn	Diffr. Im. sc.2	sc.2	Cu.	Magn	P.C. sc.2	Cu.	Magn
	1	B.			.	.	12.35 1 0 12.3	12.4	−.528	7.07	12.5	−.537	7.13
	2	5.58 5.5			1.62	7.42	13.00 1 1 13.1	12.9	−.543	7.57	13.2	−.552	7.68
	3	6.7 6.4	B.		1.24	7.94	13.75 0 1 13.8	13.7	−.550	8.25	13.8	−.560	8.30?
Edge	4	8.6 8.2	8.2	8.35 12	0.33	8.68	* n.s.	n.s.	.	.	n.s.	.	.
	5	8.8 8.5	8.8	8.80 0 0	0.05	8.85							
	6		10.2		-0.79	9.41							
	7		10.5		-0.96	9.54							
	8		10.7		-1.04	9.66							
	9		11.35 1 0 11.3	11.4	-1.32	10.03							
	10		11.20 0 0 11.2	11.2	-1.25	9.95							
	11		12.00 2 2 11.8	12.2	-1.56	10.44							
	12		12.30 1 1 12.2	12.4	-1.65	10.65							
	13		11.70 0 0 11.7	11.7	-1.45	10.25							
	14		13.25 0 1 13.2	13.3	-1.88	11.37							
	15		12.90 0 0 12.9	12.9	-1.80	11.10							

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Tuesday February. 1. 1916.

Scale R

Mc Series 590-R YELLOW

Mc 9854 Iris 1904 γ 00 +20.0°

	sc.1	sc.2	sc.2	Cu.	Magn	Diff Im. g	h	Cu.	P.C. sc.2	Cu	Magn
α	5.7 5.4			1.65	7.35	12.4 12.50 1 1 sc.2	12.6 sc.2	- 5.32	12.8	- 5.46	7.34
β	5.7 5.4	B.		1.65	7.35	12.8 12.95 2 1	13.1	- 5.41	13.1	- 5.50	7.60
1	8.4 8.1	8.3	8.35 0 1	0.33	8.68	n.s.	n.s.	.	n.s.	.	
2	8.9 8.6	8.8	8.85 1 0	0.05	8.90						
2a		10.1		-0.74	9.36 9.84						
3		10.1		-1.03	9.67 9.78						
4		10.9		-1.13	9.77 9.88						
4a		11.4		-1.35	10.05						
4b		12.45 0 1 12.4	12.5	-1.70	10.75						
5		11.00 1 1 11.1	10.9	-1.19	9.81						
6		12.50 1 1 for 12.4	12.6	-1.72	10.78						
7		13.00 1 1 13.1	12.9	-1.83	11.17						
8		13.40 0 0 13.4	13.4	-1.90	11.50						
9		13.10 0 0 13.1	13.1	-1.85	11.25						
10		+f.	+f.	.	.						

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Tuesday February 1-1916-

Copied B 17; 123

Scale R

Mc Series 590 - YELLOW

Mc 9855 Eros 1901 γ 40 +50 Alt +96

	sc.1	sc.2	Cu.	Magn	g sc.2	h sc.2	Cu	Magn	P.C. sc.2	Cu	Magn
1	B.		.	.	11.25 1 0 11.3	11.2	- 4.88	6.37	11.5	- 4.67	6.83
2	4.8 4.5		1.89	6.69	12.30 0 0. 12.3	12.3	- 5.26	7.04	12.3	- 5.25	7.05
3	7.5 7.2	B.	0.81	8.31	f sup.	.			n.s.	.	.
4	9.0 8.1	9.2	9.0 1 1	- 0.12	8.98	n.s.	n.s.	.			
5		10.3		- 0.84	9.46						
6		10.75 0 1 10.8	10.1	- 1.06	9.69						
7		11.25 1 0 11.3	11.2	- 1.27	9.98						
8		11.65 1 2 11.5	11.8	- 1.44	10.21						
9		12.15 0 1 12.2	12.1	- 1.61	10.54						
10		3 12.35 0 0 12.4	12.4	- 1.67	10.68						
11		12.7 0 1 12.6	12.8	- 1.76	10.94						
12		12.55 1 0 13.5	13.6	- 1.94	11.61						
April 8. (neg. on edge.)											
A		11.4		- 1.35	10.05						
B		11.3		- 1.30	10.00						
C		10.6		- 1.00	9.60						
D		12.2 10		- 1.63	10.57						
a		1		.	.						
b		13.4		- 1.90	11.50						
c		1		.	.						
d		1		.	.						

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Tuesday February 1, 1916

Scale R — Mc Series 590 - YELLOW — Copied 21h 12m 4.5s

mc9856 — Eros 1901 — 4 50 +25° — alt. +.05

		sc.1	sc.2	Cu.	Magn	g RO.2	g RE.2	Cu.	Magn	h sc.2	h Cu	h Magn
	α	B		.	.	8h45m01s 8.4	8.5	.	.	9.5	.	.
	β	B		.	.	11h60m00s 11.6	11.6	-5.01	6.59	11.6	-4.79	6.81
	γ	5.9 5.6		1.56	7.46	13h10m00s 13.1	13.1	-5.44	7.66	13.1	-5.50	7.60
Apr. 10 seq.	1	7.2 6.9	B.	0.95	8.15	± 13?		-5.50	8.20?	?	.	
	B = 2	8.5 8.2	8.3 8.40 1 1	0.30	8.70	n.s	n.s.	.	.			
	E = 3		10.00 1 1 9.9 10.1	-0.69	9.31							
	A		10.4	-0.89	9.51							
	C = 4		10.65 1 0 10.7 10.6	-1.01	9.64							
	F - 5		11.25 10 11.3 11.2	-1.28	9.97 9.58							
	6		3 12.30 0 0 12.2 12.3	-1.65	10.65							
	H = 7		12.35 0 1 12.4 12.3	-1.67	10.68							
"plancis not8"	~~e~~ = 8		13.00 1 1 13.1 12.9	-1.84	11.16							
	9		13.10 00 13.1 13.1	-1.85	11.25							
	* f		~~13.15 0 1 13.2 13.1~~	~~-1.86~~	~~11.29~~							
	10		13.15 0 1 13.2 13.1	-1.86	11.29							
	11		13.55 1 0 13.5 13.6	-1.96	11.59							
April 9.	A		11.5	-1.39	10.11							
	M	7.6 7.3	B.	0.74	8.34							
	IV		11.15 1 0 11.1 11.2	-1.24	9.91							
	L		11.30 1 1 11.4 11.2	-1.30	10.00							
	P		10.30 00 10.3 10.3	-0.84	9.46							
	2		12.15 0 1 12.2 12.1	-1.61	10.54							
	R		10.40 00 10.4 10.4	-0.89	9.51							
	b		12.10 00 12.1 12.1	-1.59	10.51							
	C		def. def.	.	.							

{ * Reject defect?

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Tuesday February 1, 1916.

Scale R Mc Series 590. YELLOW

Mc 9856 cont Eros 1901 1 50 + 2,5°

		Cu.	Magn
d	12.6	-1.75	10,85
~~f~~	~~13.1~~	~~-1.85~~	~~11,25~~
g	n.s.	.	.
h	n.s.	.	.

Copied 21; 123

Afer. 8	A	11.3	-1,30	10,00
	B	10.7	-1,03	9.67
	C	10.5	-0,96	9,54
	D	12.2 from	-1,63	10,57
	a	f	.	.
	b	f	.	.
	c	f	.	.
"d doubtful".	d	f	.	.

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Friday February 4, 1916.

Scale

mc Series 6.10-

mc 19083 Vole-

	sc.1	sc.2	P.C. sc.2
5	3.		11.3
6	5.1		12.2
8	7.2		13.3
9	8.3		1
10	8.5		1
11		9.9	
12		10.4	
13		11.1	
14		11.2	
15		12.1	
16		12.3	
17			
18		13.4	
19		13.5	
20		1	

Print
Measured in
Book 19

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Friday February 4. 1916-

Scale

Mc Series 610-

Mc 10083 Pole- Diffr. Inv-

cc.r

5
6
8
9
10
11
12
13
14
15
16
17
18
19

Direct

Measured in Bk 19.

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Monday
~~Friday~~ February 14, 1916

Sheet No 269

Scale R
10:46

Mc Series ~~6787~~ 363 YELLOW

Mc ~~6787~~ 10084

Pole 6787

Diff.		Mc sc.1	Mc sc.2	Pole sc.1	Pole sc.2		P.C. sc.1	P.C. sc.2	P.C. 6787 sc.1	P.C. 6787 sc.2	Diff
.	5	B.		B.		.	10.35 0 1 / 10.4	10.3	10.6		10.48 13 12 −.405
.	6	t.p.		t.p.		.	11.25 1 0 / 11.3	11.2	11.1		11.18 07 08 −.420
.208	8	5.8 / 5.5		6.1 / 5.8		595 2 1	12.45 1 0 / 12.5	12.4	12.6		12.52 07 08 −.449
1.14	9	7.4 / 7.1	B.	7.5 / 7.5		760 2 2	13.25 2 1 / 13.4	13.1	13.4		13.32 07 08 −.458
1.06	10	7.8 / 7.5	7.9	7.8 / 7.5	B.	782 03 02	13.50 0 0 / 13.5	13.5	13.4		13.45 05 05 −.457
0.38	11	9.2 / 8.9	9.1	8.7 / 8.4	8.9	898 17 18	t	n.s.	t		, ,
0.26	12		9.5	9.2 / 8.9	9.1	932 18 17					
−0.07	13		10.3		10.0	1015 1 2					
−0.21	14		10.4		10.5	1045 0 1					
−0.46	15		11.1		11.1	1110 0 0					
−0.46	16		11.4		~~11.8~~ ? Imp. sec.	1140 2 1					
−0.51	17	11.78 1 0 / 11.9	11.8	11.35 0 1 / 11.4	11.3	1155 20 20					
−0.72	18	12.35 1 0 / 12.3	12.4	12.20 1 1 / 12.3	12.1	1228 07 08					
−0.74	19	12.60 0 0 / 12.6	12.6	12.75 1 0 / 12.7	12.8	1268 08 07					
−0.93	20	13.15 0 1 / 13.2	13.1	13.10 0 0 / 13.1	13.1	1312 03 02					
−0.74	23	def?	def?	13.50 0 0 / 13.5	13.5	1350 2 2					
−0.77	25	14.05 ? 0 / 14.0	14.1?	t.	t.	1405 2 1					
.	26	t	t.	n.s.	n.s.	,					
.	27	n.s.	n.s.			.					

Optic series
12:30

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~~Monday~~ ~~Friday~~ February 4, 1916 -

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Scale R Mc Series ~~1010~~ 363 YELLOW

* Mc 6783 ~~10885~~ 8 Orionis 5 20 - 5 0° Alt -.01

		Cu.	Magn.	R.C. 1	R.C. 2	Cu	Magn
a	B	.	.	11.6 11600 0	11.6	- 4.30	7.30
b	t.f.	.	.	12.2 12850 1	12.3	- 4.40	7.85
c	7.4 7.1? B.	1.22	8.62?	12.7 12801 1	13.9?	- 4.50	8.30
d	7.8 7.90 1 1.5 8.0	0.95	8.85	12.8 12800 0	12.8	- 4.50	8.30
e	9.2 8.9? 9.15 0 1 9.1	0.30	9.45?	13.97 13651 0	13.6	- 4.56	9.09
f	9.3	0.24	9.54	n.s.	.	.	
g	9.2	0.28	9.48				
h	10.1	-0.07	10.03				
k	10.5	-0.23	10.27				
k'	10.8	-0.34	10.46				
l	11.5 11451 0 11.4	-0.53	10.92				
m	12.1 12.15 1 0 12.2	-0.70	11.45				
n	11.6 11651 0 11.7	-0.59	11.06				
o	12.2 12.20 0 0 12.2	-0.71	11.49				
p	t.f. 12.2	-0.71	11.49				
q	12.3 12.25 1 0 12.2	-0.72	11.53				
r	13.3 13.25 1 0 13.2	-0.80	12.45				
s	13.1 13.10 0 0 13.1	-0.79	12.31				
t	f f	.					
Var.	~~15~~ 17?	1.18	8.38	12.8			

* Images on this plate are very poor.

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Monday
~~Friday~~ February 14, 1916.

Scale R

Mc Series 363 YELLOW

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Mc 6484 e Orionis

Alt +.02

P.C.

	sc.1	sc.2	sc.3	Cu		sc.2	sc.2	Cu	Magn
a	B			.		10.075 L0 10.7	10.8	-.411	6.64
b	B			.		11.40 00 11.4	11.4	-.427	7.13
1	B			.		12.05 01 12.0	12.1	-.438	7.67
2 = c	B.	B.		.		12.55 L0 12.5	12.6	-.447	8.08
d	8.7 8.4	8.8	8.75 ± 0	0.50	9.25	13.3 13.20 00	13.3	-.453	8.77
3		9.3		0.24	9.54	7.	7.		
4		10.7		-0.30	10.40				
e		11.1		-.044	10.66				
5		11.60 L1 11.5	11.7	-.058	11.02				
f		11.95 12 12.1	11.8	-.066	11.29				
6		11.200 L1 11.9	12.1	-.067	11.33				
7		1200 L1 11.9	12.1	-.067	11.33				
8		1220 00 12.2	12.2	-.071	11.49				
9		13.15 L0 13.1	13.2	-.080	12.35				
g		13.20 00 13.2		-.080	1240				
10		1340 L1 13.3	13.5	-.080	1260				
h		1340 11 13.5	13.3	-.080	1260				
i		13.7	7.	-.079	1291				

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Monday
~~Friday~~ February 14, 1916.

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Scale R

Mc Series ~~5+0~~ 363 YELLOW

Mc 6485 R Z Aurigae 5 50 +32.5 Alt +.12

		sc.1	sc.2	Cu.	Magn	B.C. sc.2	sc.2	Cu.	Magn
Seq RZ.	a'	B		.	.	10.80 00 17.8	10.8	-.413	6.67
	a²	B	B	.	.	11.90 00 11.9	11.9	-.434	7.56
	a	B.	83	0.73	9.03	13.45 01 13.4	13.5	-.456	8.89
	b	8.8 8.5	8.95 2-1 9.1	0.48	9.35	f.	f.	.	.
	c		9.9	0.01	9.91				
	d		10.8	-.034	10.46				
	d'		11.3	-.049	10.81				
	e		11.45 01 11.4	11.5 -.053	10.92				
	f		12.20 00 12.2	12.2 -.071	11.49				
	f'		12.55 01 12.6	12.5 -.076	11.79				
	g		12.65 01 12.6	12.7 -.077	11.88				
	h		13.20 11 13.3	13.1 -.080	12.40				
	α		10.6	-.028	10.32				
	β		11.6	-.058	11.02				
	γ		12.3	-.072	11.58				
	2		12.4	-.075	11.65				
	1	B.		.		12.5	-.446		8.04
	1a	B.		.		12.1	-.449		8.21
	3	8.4 8.1		0.67	9.07	13.5	-.455		8.95
	4	86 8.3		0.58	9.18	13.5	-.455		8.95
	4a		10.1	-.008	10.02	f.	.		.
	4b		10.4	-.020	10.20				
	4c		10.7	-.030	10.40				
	5		12.1	-.069	11.41				
	6		12.5	-.076	11.74				
	7		f.	.	.				
	8		13.7	-.079	12.81				

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Monday
~~Friday~~ February 14, 1916 -

Scale R

Mc Series ~~610~~ 363 YELLOW

Copied B 2h:72

Mc 6486 V of Aurigae 6 12+44 5

Alt +12

O.C.

V Aurigae

	sc.1	sc.2	Cw.	Magn	sc.2	sc.2	Cw.	Magn
a	B.		.	.	12.4 (12.40 00)	12.4	-.443	7.97
b	7.3 10 B (8.3 8.0 82011)		1.28	8.58	13.3 (13.20 11)	13.1	-.453	8.67
c	~~8.8~~ 8.1 (8.8 8.60 22)		.078	8.98	f.	f.	.	.
d	8.5	8.4	.058	9.18	~~12~~ f.		.	.
d'	9.3 9.30 00 9.0	9.3	.023	9.53				
e		10.1	-.007	10.03				
f		10.3	-.015	10.15				
g		10.9	-.037	10.53				
h		11.3	-.049	10.81				
k		11.5	-.054	10.96				
l		11.7	-.059	11.11				
m		12.2	-.071	11.49				
n		12.1 (12.80 00)	-.069	11.41				
o		12.8 12.8	-.078	12.02				
p		(12.80 00) 12.8 12.8	-.078	12.02				
q		(12.60 00) 12.6 12.6	-.076	11.84				
r		(13.40 00) 13.4 13.4	-.080	12.60				
s		(13.45 10) 13.5 13.4	-.080	12.65				
t		(13.35 10) 13.3 13.4	-.080	12.55				
u		(13.40 00) 13.4 13.4	-.080	12.60				
w		f 13.1	-.079	12.91				
V aurigae. Var		82 7.9 8.15 01 8.1	.080	8.95				

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Monday
~~Friday~~ February 14, 1916.

Scale R

Mc Series ~~610~~ 362 YELLOW

Mc 6486 cont. 88 Aurigae 6 12+4f.5

P.C.

		pc.1	pc.2	Cw.	Magn	pc.2	pc.2	Cw	Magn
	a	B		.	.	12.10 00 12.1	12.1	-4.39	7.71
	b	B		.	.	12.10 00 12.1	12.1	-4.39	7.71
wr. unit	c	7.4 8.1	B.	1.23	8.63	*	13.3	-4.53	8.77
	d	84 86 862 8.1 8.3 8.8	8.1	0.57	9.19	*	13.5	-4.56	8.94
	e		9.5	0.15	9.65	f	.	.	.
	f		10.4	-0.19	10.21				
	g		10.9	-0.37	10.53				
	h		11.1	-0.44	10.66				
	k		11.1	-0.44	10.66				
	l		10.9	-0.37	10.53				
	m		1135 1.0 11.3 11.4	-0.50	10.85				
	n		11.80 00 11.8 11.8	-0.63	11.17				
	o		11.40 00 11.4 11.4	-0.51	10.89				
	p		1220 00 12.2 12.2	-0.71	11.49				
	q		1295 2.1 12.8 13.1	-0.79	12.16				
	r		12.30 00 12.3 12.3	-0.73	11.57				
	s		f.p. f.p.	.	.				
	t		13.4 f.p.	-0.80	12.60				

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~~Monday~~ ~~Friday~~ Tuesday February 15th, 1916.

Scale R

11:~~53~~ 45

Sheet No 269

Mc series ~~610~~ 363 YELLOW

		Mc 6787		Pole. Mc 6793		P.C.	P.C.		Diff.
		sc.1	sc.2	sc.1	sc.2	sc.2 sc.2	sc.2 sc.2		
.	5	B.		B.		1060 1 1	10.50 0 0		
						10.7 . 10.5	10.5 10.5	10.55 05 05	-4.12
.	6	B.		B		11.25 1 0	11.25 0 1		
						11.3 . 11.2	11.2 11.3	11.25 00 00	-4.27
2.18	8	5.6 5.9		6.1 5.8		12.65 1 2	12.55 0 1		
						585 2 3 12.5 . 12.8	12.6 12.5	12.60 05 05	-4.57
1.15	9	7.6 7.3		7.6 7.3		13.30 0 0	13.30 0 0		
						760 0 0 13.3 . 13.3	13.3 13.3	13.30 00 00	-4.56
1.13	10	7.8 7.5 B.		7.7 7.4 B.		7.75 0 1 t.p. ~~7~~	~~7~~ 13.7?	.	,
		8.7		8.8					
0.66	11	8.4 8.8	8.75 1 0	8.5 8.5	8.65 2 1	8.70 05 05			
0.23	12	9.4		9.3		9.35 0 1			
-0.02	13	9.9		10.3		10.10 2 2			
-0.21	14	10.4		10.5		10.45 0 0			
-0.46	15	11.1		11.1		11.10 0 0			
Im very sharp -0.81	16	11.8? def?		11.70 1 1 11.8 11.6		11.75 05 05			
-0.58	17	11.60 0 0 11.6 11.6		11.65 1 0 11.7 11.6		11.62 02 03			
Im. -0.82	18	12.15 0 1 12.1 12.2 ~~def?~~		12.60 1 1 12.5 12.7		12.38 2 3 22			
-0.96	19	12.75 1 0 12.7 12.8		13.05 0 1 13.0 13.1		12.90 15 15			
-0.76	20	12.95 2 1 12.8 13.1		~~12.4~~ t.p. hazy		12.95 a= ,			
-0.79	23	13.50 0 0 13.5 13.5		13.6		13.55 05 05			
-0.72	25	14.00 0 0 14.0 14.0		~~7~~		14.00 a= ,			
.	26	n.s. n.s.?		n.s.		,			
.	27								

after series 1:34

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Tuesday February 15, 1916.

Scale R Mc Series 363 YELLOW R W Mon. Copied B 20:107

	Mc 6488	R W monoc. Eros 1901	b 30 + 7.5°	Alt + 07
			D.C.	
Seq. R W monoc.	sc.1	Cu Magn	sc.2 sc.2	
α	B.	. .	1100 1 / 11.1 10.9	-4.23 6.77
a	B	. .	1175 0 / 11.8 11.7	-4.40 7.35
f	B	. .	1295 0 / 13.0 12.9	-4.56 8.39
e	B.	. .	1320 0 0 / 13.2 13.2	-4.56 8.64
c'	7.6 7.3 B.	1.20 8.80	1335 1 0 / 13.3 13.4	-4.56 8.79
c	8.1 7.8 8.1 8.10 0 0	0.94 9.04	?.	. .
d	8.6 8.3 8.8? two	0.63 9.33?	?.	. .
d'	8.7 8.4 8.9 8.80 1 1	0.57 9.37	?.	. .
e	8.8 8.5 8.6 8.9 9.2 9.00 2 1 2 1 9.1	0.45 9.45	?fr.	. .
f	9.7	0.11 9.81		
g	10.2	-0.15 10.05		
g'	10.5	-0.29 10.21		
h	10.6	-0.33 10.27		
h'	11.2	-0.53 10.67		
k	11.5 0 1 / 11.4 11.6	-0.62 10.88		
l	11.4 5 1 0 / 11.5 11.4	-0.60 10.85		
* l'	13.0 13.0 0 0 / 13.0	-0.84 12.16		
m	~~13.2~~ 12.8	-0.84 11.96		
m'	12.2 0 0 / 12.2 12.2	-0.80 11.40		
m	13.5? ?	-0.81 12.69?		
* l²	2 1 2 9 0 0 / 12.9 12.9	-0.84 12.06		
Var	8.4 8.1	0.77 9.17		
Eros c.s. selected by M Harwood 512	12.6	-0.84 11.76		
513	12.1	-0.85 11.85		
514	13.3	-0.83 12.47		
515	?	. .		
516	11.4	-0.60 10.80		

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Tuesday February 15, 1916.

Scale R

Mc Series 363. YELLOW

Mc 86788 cont.

Eros 1901. b 30+15

		scal sc?	P.C. sc?
Mar. 16 Seq. near edge.	A	f.p.	n.s. . .
	B	f.p.	13.4 – 4.56 8.84
	C	B.	11,5 – 4.34 7.16
	D	.	
	E	.	
"Ident uncertain"	a	.	
	b	.	
	c	.	
	d	.	
	e	.	

Images very much elongated – faint.

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Tuesday February 15, 1916.

Scale R — Mc Series 363 - YELLOW — Copied Book 23:166

Mc 67 90 — D4 — f - 15° — alt. -.11

P.C.

	sc.1	sc.2	Cu	Magn	sc.2	sc.2	Cu		
1	B		.	.	11.55 1.0 11.5	11.6	-4.36	7.19	
2	B		.	.	12.5 4 12.48 01	12.5	-4.52	7.93	
3	B.		.	.	12.3 00 12.3	12.3	-4.50	7.80	
4	B.		.	.	11.6 11.50 1.	11.4	-4.34	7.16	
5	6.6 6.3		1.73	8.33	12.8 12.75 0.	12.7	-4.56	8.19	
6	7.3 7.0	B.	1.35	8.65	13.0 13.1 0 1	13.2	-4.56	8.54	
7	B.	B.	.	.	12.2		-4.49	7.71	
8	84 8.1	8.25 2.1 8.1	0.86	9.11	f.		.	.	
9	B.	B.	.	.	11.3		-4.30	7.00	
10	7.9 7.6	8.00 1.1 8.1	0.98	8.98	13.2		-4.56	8.64	
11	8.6 8.3	8.60 00 8.6	0.67	9.27	m.s.		.	.	
12	8.1 8.8	8.00 1.1 7.9	0.98	8.98	t.f.		.	.	
13	7.5 7.2	B.	1.25	8.75	13.2		-4.56	8.64	
14		10.00 1.1 10.1 9.9	-0.05	9.95	m.s.		.	.	
15		9.40 00 9.4 9.4	0.24	9.64	m.s.		.	.	
16	7.9 7.6	B.	1.05	8.95	t.f.		.	.	
17		10.50 00 10.5 10.5	-0.29	10.21					
18		10.55 1.0 10.5 10.6	-0.30	10.25					
19		10.30 00 10.3 10.3	-0.20	10.10					
20		10.55 1.0 10.5 10.6	-0.30	10.25					
21		11.40 1.1 11.5 11.3	-0.59	10.81					
22		11.40 1.1 11.5 11.3	-0.59	10.81					
23		12.25 10 12.3 12.2	-0.80	11.45					
24		11.10 00 11.1 11.1	-0.50	10.60					
25		t.f. 12.4?	-0.82	11.58?					
26		12.4 t.f.	-0.82	11.58					
27		t.f. 12.3	-0.83	12.47					

Star Inv. cont.

	sc.2		
28	f.	.	
29	13.5	-0.81	12.69
30	t.f.	-0.84 13.1?	12.26?
31	f.	.	

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Tuesday February 15, 1916.

Scale R

Mc Series 363. YELLOW

Mc 6789 | Gemini. | 6 36+17.5 | alt. +.09

B.C.

	sc.1	sc.2	sc.3	Cu.	Magn	sc.2	sc.2	Cu	
a	B.			.	.	w.s. ~~12.8~~ 10.4 (10400)	10.4	-4.08	6.32
1	B.			.	.	12.8 (12750)	12.7	-4.56	8.19
b	4.7 1.4	B.		1.16	8.86	13.2 (13200)	13.2	-4.56	8.64
2	8.8 8.5	9.00	9.2	0.46	9.46	n.s.	n.s.	.	.
3=c		9.4		0.24	9.64				
d		10.4		-0.25	10.15				
e		10.4		-0.25	10.15				
f		11.4		-0.59	10.81				
4		12.1		-0.77	11.33				
g		12.2		-0.79	11.41				
5		12.5 (12900)		-0.83	11.67				
6		12.9 (13300)	12.9	-0.84	12.06				
h		13.3 (13.10 L1)	13.3	-0.83	12.47				
8		13.0 (13.35 L0)	13.2	-0.84	12.26				
i		13.3 (13.55 L0)	13.4 poor	-0.82	12.53				
7		13.5 (13.60 L1)	13.6	-0.79	12.76				
j		13.5	13.7	-0.79	12.81				

Plate measured out of order by mistake.

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1915phae.proj.10710

Tuesday February 15, 1916 -

Scale R mc Series 363 YELLOW Cycid Book 23:96

mc. 6798' C4 7 +15° alt. +.09

Q.C.

	sc 1	sc 2	Cu.	Magn	sc 2	sc 2	Cu.	
1	B		.	.	11.2 (11.26 01)	11.3	- 4.29	6.96
2	B.		.	.	11.7 (11.70 00)	11.7	- 4.38	7.32
3	B		.	.	11.6 (11.40 22)	11.21	- 4.32	7.08
4	B.		.	.	11.21 (11.25 01)	11.3	- 4.29	6.96
4a	B		.	.	12.3 (12.20 11)	12.1	- 4.49	7.71
5	7.5 7.21	B.	125	8.75	13.5		.	.
6	B.	B	.	.	11.9		442	7.48
7	B	B.	.	.	12.5		- 4.53	7.97
8	8.5 8.7 (8.40 11)	8.3	0.77	9.17	f.		,	,
9	6.8 6.5	B.	1.61	8.41	12.7		- 4.56	8.14
9a	8.4 8.1 (8.35 01)	8.3	080	9.15	f.		,	.
10		9.4	0.23	9.63	m.s.		,	.
11		10.4	- 025	10.15				
12	8.6 8.3 (8.55 01)	8.5	0.69	924	~~f~~			
13	8.6 8.3 (8.50 11)	8.4	0.74	9.24				
14		10.6	- 0.32	10.28				
15		11.1	- 050	10.60				
16		11.4 (11.40 00) 11.4	- 059	10.81				
17		11.2 (11.30 11) 11.4	- 055	10.75				
18		12.4 (12.40 00) 12.4	- 082	11.58				
19		11.7 (11.75 10) 11.8	- 070	11.05				
20		11.6 (11.70 11) 11.8	- 068	11.02				
21		13.2 (13.20 00) 13.2	- 083	12.37				
22		12.8 (12.80 00) 12.8	- 085	11.95				
23		f. f.	.	.				
24		f. f	.	.				
25		m.s. m.s.	.	.				
26			- 083	12.47				

Standm sc 2

21a 13.4 - 0.81 12.59

26 m.s. . .

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Tuesday February 15, 1916.

Copid B K 21.36

Scale R McClure 36 3 - YELLOW

mc 6492 R Gemini 7 0 +229 alt. +.10

P.C

	sc.1	Cw.		sc.1	sc2	sc2		
a	B.	.		8.6	8.80	8.1	.	
b	.	.		9.7	9.50	9.3	. on extreme edge.	
c	.	.		10.2	10.4		-4.04	6.26
d	.	.		10.6	10.6		-4.14	6.46
e	.	.		11.2	11.2		-4.28	6.92
f	.	.		11.4	11.3		-4.31	7.04
g	B	.		11.7	11.6		-4.38	7.27
h	6.3	1.73	8.33	12.9			-4.56	8.34
k	6.8	1.46	8.56	13.0			-4.56	8.44
l	7.4 B.	1.16	8.86	13.5			-4.56	8.94
m	8.1 8.4	0.77	9.17	↑	.		.	
n	8.5 8.8	0.58	9.38					
o	9.4	0.23	9.63					
o'	10.2	-0.15	10.05					
o²	10.9	-0.44	10.46					
o³	11.8 11.5	-0.68	10.97					
p	12.0 12.1	-0.77	11.28					
q	11.7 11.5	-0.66	10.94					
r	11.9 11.9	-0.74	11.16					
s	12.8 12.8	-0.85	11.95					
t	12.8 12.8	-0.85	11.95					
u (v seen, but poor)	↑	.	.					
R Gem. Var.	6.4	1.68	8.38	13.2			-4.56	8.64

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Thursday February 17, 1916.

Scale ~~&~~ m Sc. measures of c.s. for Var. +4° 4584 (a.) C.) see Ac 16593 f.
x 25 Ac 16953 disc. on Ac 3999 f.

Carte region
at 21 +10.5

	sc.1	sc.2	sc.3	mean	Diff. Bk 32:108
1	6.2 bad		6.2	6.30 1L	+2.12
2		7.6	7.5	7.55 0L	1.96
3		8.4	8.3	8.35 0L	2.19
4		8.2	8.2	8.20 00	2.08
5		8.5	8.4	8.45 10	1.99
6		8.6	8.6	8.60 00	2.17
7		8.7	8.6	8.65 10	2.09
8		9.2	8.9	9.05 2L	2.23
9		9.2	9.3	9.25 01	2.35
10		9.8	9.9	9.85 01	2.61
11		n.s. f.			

Leq for 112K

				Diff. BK 7:115
1	7.4	7.2	7.30 1L	+1.16
2	7.7	7.7	7.70 00	1.47
3	8.6	8.5	8.55 0L	1.72
4	8.7	8.7	8.70 00	187
5	9.1	9.2	9.15 10	1.97
6	9.2	9.2	9.20 00	2.15
7	9.4	9.6	9.50 11	2.09
8	9.5	9.7	9.60 11	2.28
9	f	f.		

See next page for c.s. for variable.

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1915phae.proj.10710

Thursday February 17, 1916.

Scale m. Scale measured off c.s. on Ac plates for var. +4° 4584 (a.j.c).
Ac 16958.

Seq. for Var.	sc.1	sc.2		(from 112 K.) curve	Magn.	from 21+10.5 (carte) curve	Magn.	Diff. to reading from mean of magns. for c.s.
a	5.0 5.7	5.3		5.2501	·	2.30E	7.558	
b	5.7 5.9	5.9	6.1	5.971 11	·	2.16E	8.13E	+1.88
c	6.3 6.5	6.3		6.40 11	·	2.098	8.49	+1.88
d	6.7 6.9	6.9		6.9000	·	2.03	8.93	1.58
e	6.7 6.9	7.1		7.00 11	·	2.02	9.02	1.34
f		1.4	1.3	1.3501	1.23	8.58	2.00	9.35	1.46
g		1.6	1.5	1.5501	1.33	8.88	2.00	9.55	1.59
h		1.9	1.8	1.8510	1.46	9.31	2.01	9.86	1.53
k		8.2	8.1	8.1501	1.60	9.75	2.03	10.18	1.38
l		8.5 4	8.4	8.4000	1.72	10.12	2.05	10.45	1.64
m		8.4	8.4	8.4000	1.72	10.12	2.05	10.45	1.65
n		8.6	8.5	8.5501	1.78	10.33	2.07	10.62	1.91
Var.	6.6 6.8			6.8 ±	·		2.04	8.84	·

2.38

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1915phae.proj.10710

Thursday February 17, 1916.

Scale M 2:44

Scale measures of c.s. for var. +4° 4584 (a.f.c.)

Oc 1696 10530

		sc.1	sc.2	sc.3	Mean.	
Carte seq. at 21 + 24.5	1	6.1 6.3	6.3		6.30 00	.
	2		7.2	7.2	7.20 00	+1.31
	3		7.9	7.9	7.9000	1.08
	4		8.5	8.5	8.5000	1.34
	5		9.2	9.2	9.2000	1.21
	6		9.4	9.3	9.350 1	1.36
	7		9.3	9.4	9.35 1 0	1.38
	8		9.6	9.8	9.7 0 1 1	1.77
	9		f.	f.		
Seq. for 88 K.					Diff from Bk 7:91	
	1	5.4	5.6		5.50 1 1	+1.08
	2	6.9	7.2		7.05 1 2	1.11
	3		7.6	7.6	7.6000	1.29
	4		8.1	8.0	8.05 10	1.27
	5		8.9	9.1	9.00 1 1	1.31
	6		9.0	~~8.9~~ 9.2	9.10 1 1	1.39
Seq. for a.f.c. var.	7		9.5	9.7	9.60 1 1	1.43
	8		f.	10.0?	10.0? @	1.73?

					curve from 88K.	6.13 &	curve from Carte 21+24.5		mean magno. − scale rdgs.
a	4.7 4.9	5.3		5.10 2 2	1.03	~~Comp~~	1.		
b	5.4 5.6	5.4		5.50 1 1	1.09	6.57	.		
c	6.8 6.9	7.0		7.0000	1.18	8.18	1.17	8.17	1.28
d	7.0 7.2	7.2		7.2000	1.20	8.40	1.18	8.38	1.28
e		7.1	7.1	7.1000	1.19	8.29	1.17	8.27	1.24
f		7.3	7.4	7.35 1 0	1.20	8.55	1.18	8.53	1.46
g		7.7	7.8	7.75 1 0	1.24	8.99	1.20	8.95	1.39
h		7.9	7.9	7.9000	1.26	9.16	1.21	9.11	1.48
k		7.9	8.1	8.00 1 1	1.26	9.26	1.21	9.21	1.53

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Thursday February 17, 1916

Scale m Sc. Measures of ~~var.~~ C.S. for var. + 4° 4584 (a.j.c).

Ac 10530 cont.

				curve from 88K.	Magn.	curve from Carte 21 + 24.5		
	sc 2	sc 2						
l	8.1	8.1		8.70 00	1.33	10.03	1.27 9.97	+1.34
m	8.1	8.6	from	8.65 10	1.32	9.97	1.26 9.91	1.40
n	9.2	9.2		9.30 00	1.40	10.60	1.36 10.56	1.26
Var.	sc 1 6.5	6.7		6.70 00	1.16	7.86	" "	

Ca

fa

3
7:12

Interrupted for 15 min

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Thursday, February 17, 1916.

Scale 1m Scale measures of c.s. for var. +4° 4584 (a.f.c)

3 45 ~~Aor~~ am 6 3 69.

		sc. 1	sc. 2			
88 K.	1	t.f.	t.f.			
	2	5.8? 6.0?	6.1 v.f.	6.05 ? 01	+2.11	
	3	6.5 6.7	6.6	6.65 10	2.24	
	4	7.5	7.4	7.45 10	1.87	
	5	~~7.6~~ 8.4 v.s.	~~7.4~~ 8.5 v.s.	* 8.45 01	~~2.81~~ 1.86	
	6	9.1	8.9	9.00 11	1.49	
	7	9.5	9.5	9.50 00	1.53	
	8	n.s.	f			

* changed 3 Thurs. Feb. 17, '16. wrong star marked.

Carte seg at 22h +17.5 — Diff Bk 32:97

1	4.7 4.9	5.1	5.00 11	~~+2.21~~ +2.58	
2	6.6 6.8	6.6	6.70 11	2.33	
3	7.3	7.1	7.20 11	2.27	
4	t.f.	8.1	8.1 : =	1.78	
5	8.1	8.1	8.10 00	1.91	
6	8.5	8.4	8.45 10	2.02	
7	9.1? v.f.	9.1	9.10 ? 00	1.58	
8	9.8	9.8	9.80 00	1.64	
9	n.s.	n.s.	. .		

seq. for Var.				curve from 88 K.		curve from Carte 22+17.5		Mean magn. - sc. red. Diff.
a	4.0 4.2	4.2	4.20 00	.	magn.	2.67 E	6.87 E	
46 48 b	4.5 4.7	5.1	~~4.65 21~~ 4.87 12 2	.		~~3.60 E~~	~~7.84 E~~	
c	6.1 6.3	5.9	6.10 22	2.18	8.28	2.40	8.50	+2.18
d	6.2 6.4	6.2	6.30 11	2.15	8.45	2.31	8.61	2.18
e	5.8 6.0	6.2	6.10 11	2.18	8.28	2.40	8.50	2.24
f	6.6 6.8	6.7	6.75 01	2.10	8.85	2.26	9.01	2.06

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Thursday February 17, 1916 -

Scalum Sc. measures of c.s. for var. + 4° 4584 cont.

Ac 6369.

	sc.	sc.			curve fr. 88K.	mags.	curve from Arte 22+17.5		Diff.
g	6.9	7.1	7.05	11	2.04	9.04	2.20	9.20	2.14
h	7.3	7.4	7.35	10	1.99	9.34	2.11	9.46	2.03
k	7.5	7.6	7.55	10	1.94	9.49	2.05	9.60	1.98
l	8.2	8.1	8.15	01	1.80	9.95	1.91	10.06	1.89
m	8.2	8.1	8.15	01	1.80	9.95	1.91	10.06	1.90
n	8.8	8.6	8.70	11	1.67	10.37	1.77	10.47	1.76
Var.	sc. 1 5.8	6.0	6.00	00	2.30	8.20	2.42	8.42	

4:05

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Friday February 18, 1916.

Scale M 10:49

Scale measures of c.s. for var. +4° 4584 cont.

as a m 6499.

		rec.2				
Seq. for 88 K. m. elong.	1	t.f.	t.f.		Mean	
	2	5.3 3.5?	5.5?		5.50? 00	1.66
	3	5.9 6.1	6.1		6.10 00	2.19
	4	6.5 6.7	6.3		6.50 22	2.82
	5		8.1	8 7.1	8.10 00	2.21
	6		8.1	8.3	8.20 11	2.29
	7		9.1	8.8?	9.05? 1 2	1.98
	8		9.7	9.8	9.75 10	1.98
	9		t.	t		
	10					
Seq. for Carte 2h+17.9	11					
	12	4.4 4.6	4.7		4.50? 11	+3.08
	2	5.7 5.9	5.8		5.85 10	3.18
	3	6.2 6.4	6.1		6.25 21	3.22
	4	7.0 7.2	7.2		7.20 00	2.76
	5		7.1	7.1 8.1 w.s.	7.10 00	2.91
	6		7.6	7.9	7.75 21	2.72
	7		8.6	8.6 8.8 w.s.	8.60 00	2.08
	8		9.5	9.7 9.4 w.s.	9.45 10	1.99
	9		9.8	9.8	9.80 00	2.11
	10		t			

				curve for 88 K.	magn.	curve from 22+17.5	magn.	Mean magns. – sc. reading.
Var. seq.	a	3.5 3.7	3.6	3.72	.	.		
	b	3.8 4.0	4.4	4.20 22	.	.		
	c	5.3 5.5	5.3	5.40 11	.	.	8.30E	8.60E +2.88
	d	5.5 5.7	5.7	5.70 00	.	.	8.21E	8.91E 2.78
	e	5.4 5.6	5.5	5.550 1	.	.	8.21E	8.76E 2.79

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Friday February 18, 1916.

Scale m Sv. measures of Gc plates for c.s. Var +4° 4584.

AM 6499 cont.

	sc 2	sc 2	Mean.	curve from 88 K. ↓	Magn.	curve from Cacte. 22+17.5		
f	5.1 5.9 6.6	6.2	6.05 ± 2	2.83	8.88	3.20	9.25	+2.76
g	6.4	6.5	6.55 01	2.74	9.29	3.03	9.58	2.59
h	6.6 68	6.9	6.85 01	2.67	9.52	2.95	9.88	2.53
k	6.7 6.9	6.9	6.90 00	2.66	9.56	2.93	9.83	2.63
l	7.5	7.5	7.5000	2.48	9.98	2.70	10.20	2.54
m	7.5	7.7	7.60 ± 1	2.45	10.05	2.67	10.27	2.45
n	8.0	8.1	8.0501	2.31	10.36	2.45	10.50	2.41
Var.	5.3 5.5	5.5	5.5000	.	.	.	.	

11:14

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Saturday February 26, 1916

Scale N
11–

Sc. measures of AI plates for c.s. Var +4° 4584 cont-
AI 14234 88K. & Var c.s.

sc B sc C

88K.

					Diff.
1	6.1 6.3	6.0	6.15	1 2	+.043
2	8.1 7.9	7.6	7.85	1 2	0.31
3	8.9 8.5	8.5	8.50	0 0	0.39
4		9.2	9.2	. 2	0.12
5		7.			

(fainter than 10th image on scale)

					curve	magn.
a	6.1 6.3	6.2		6.25 1 0	+0.44	6.69
b	7.4 7.0	6.8	6.8	6.88 0 1 1	0.41	7.29
b'	7.8 7.4	7.4		7.40 0 0	0.39	7.79
c	8.0 7.6	7.8		7.70 1 1	0.36	8.06
d	8.3 7.9	8.1		8.00 1 1	0.35	8.35
e	8.3 7.9	8.1		8.00 1 1	0.35	8.35
f	8.7 8.3	8.5		8.40 1 1	0.30	8.70
Var.	7.1 6.7			6.7 2 .	0.42	7.12

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Saturday February 26, 1916

Scale N Scale measures of 88 K + c.s. for var. +4° 4584-

AI 12907

	88K.	pc.B	sc.C.		Diff fr. 88K.
1	6.1	5.9	5.5	6.60 1 1	+0.98
2	7.1	7.3	7.4	7.35 1 0	0.81
3	8.3	7.9	8.1	8.00 1 1	0.89
4	9.1	8.7	8.4	8.55 1 2	0.79
5	9		9.9	9.9 · a =	0.41

						curve magn.
Seq. for Var. 6.7	a	6.6	6.2	6.9 (w. unit) 6.1	6.12 2 1 ± 0	0.96	7.06
	b	6.9	6.5	6.7	6.40 1 1	0.94	7.34
	b'	7.6	7.2	7.3	7.2501	0.89	8.14
	c	7.7	7.3	7.5	7.40 1 1	0.87	8.27
	d	8.1	7.7	7.6	7.65 ± 0	0.86	8.51
	e	7.9	7.5?	7.6	7.55? 1 0	0.87	8.42
	f	8.3	7.9	8.1	8.00 1 1	0.82	8.82
	Var	7.8	7.4		7.4 ±	0.88	8.28

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Saturday February 26, 1916.

Scale N Sc. measures var. seq. cont.

AI 12821 88K - Var. seq.

88K	sc B	sc C				
1	6.7 6.3	6.1	6.20	1 1	+0.38	
2	8.2 7.8	7.7	7.75	0 1	0.41	
3	8.8 8.4	8.5	8.45	0 1	0.44	
4	9.3 8.9	9.1	9.00	1 1	+0.32	
5		10.0	10.0	a	+0.31	

					curve	magn.
Var Seq. a	7.2 6.8	6.75		6.65 2 1	0.40	6.9 7.05
7.4 7.0 b	7.5 7.1	6.7	6.8	6.90 1 2 ± 1	0.41	7.31
7.9 7.5 b'	8.1 7.7	7.5	7.6	7.58 1 1 0	0.41	7.99
c	8.2 7.8	7.8		7.80 0 0	0.41	8.21
d	8.7 8.3	8.1		8.20 1 1	0.41	8.61
e	8.6 8.2	8.3		8.25 0 1	0.40	8.65
f	8.9 8.5	8.6		8.55 1 0	0.40	8.95
Var.	8.3 7.9				0.41	8.31

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Saturday February 26, 1916.

Scale N Scale measures – var. seq +4° 4584 cont

A.T. 13767

	88K.	sc.B	sc.C.	sc.C		Diff from mean 88K.
	1	6.3 5.9	6.5	6	5.80 ± 1	0.78
(8.1 = var. scale)	2	7.9 7.5	~~8.1~~ 7.8		7.65 ± 2	0.51
	3		8.8	8.6	8.70 ± 1	0.19
	4		9.2	9.3	9.250 1	0.07
	5		?			

				curve	mags.
Seq for var.	a	7.2 6.8	6.7	6.95 ± 1	0.66	7.41
	b	7.6 7.2	7.2	7.20 ± 0	0.59	7.79
	b'	8.3 7.9	8.1	8.00 ± 1	0.42	8.42
	c	8.4 8.0	8.2	8.10 ± 1	0.40	8.50
	d	8.8 8.4	8.4	8.40 ± 0	0.32	8.72
	e	8.6 8.2	8.6	8.40 ± 2	0.32	8.72
	f		8.8	8.6	8.70 ± 1	0.23	8.93
	Var.	8.4 8.0				0.42	8.42

11:36

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Thursday March 2, 1916 -

Copied Bk 21: 11 5/6

Scale R for Relative mags. C. S. for Epoch 1901 - Feb. 25, 26, 27.

9:25 Mc 9842. See 017:143 Alt. +.10

Ref. Leg.		sc1	sc2	sc3	Diff. from Magn 017:143	sc2	sc3			P.C. sc3	
	1	5.4	5.7		+1.84	12.8	13.1	13.05 ± 1	-5.39	13.1	-5.46
	2	7.3	7.6	B	0.92	f.	f.			13.9?	poor + ft
	3	8.8	9.1	9.1 9.10 00	-0.04	n.s.	n.s.				
Feb. 26 A =	4		10.5		-0.95						
Feb. 26 F =	5		10.8		-1.05						
	6		11.3		-1.25						
Feb. 26 D =	7		11.9		-1.44						
Feb. 26 E =	8		12.3	12.30 00 12.3	-1.70						
	9		12.4	12.50 ±1 12.6	-1.77						
	10		12.8	12.90 ±1 13.0	-1.82						
Feb. 26 J =	11		13.4	13.35 01 13.3	-1.98						
	12		f.	f.							
Feb. 27 —	A	B			curve magn. ridg.	10.4	10.6	10.50 ±1	0.00	10.9	
	B		10.1		-0.12	-0.69	9.41	n.s.	n.s.		
	c		12.3			-1.65	10.65				
	b		12.6	12.60 00 12.6		-1.74	10.86				
Imm. peculiar from	d										
	f		13.6	13.50 ±1 13.4		-2.01 -1.51	11.49				
	g		f.	13.4?		-1.99	11.41?				
	h		f.	f.							
double.	i		11.4 12.4	11.3 12.4	11.35 01 12.40 00	-1.28 -1.68	10.07 10.72				
Feb. 26 (second time)	B ☆		10.7	10.65 10 10.6	-0.99		9.66	n.s.		n.s.	
	a		13.2	13.20 00 13.2	-2.05						
	C		12.5	12.40 ±1 12.3		-1.69	10.71				
	G		11.7	11.65 10 11.6		-1.38	10.27	n.s.			
K = double (faint)	ℓ		13.2	13.15 01 13.1	-1.78						

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Thursday March 2, 1916-

Scale for Relative Magns. Eros 1901-
Mc9842 cont. (See 017: 143-4)

Feb. 25

	sc.1	sc.2	sc.3		Diff. fr. P. 14 [illegible]
a	8.1[84]	8.3		8.35 01	+0.47
B		10.2	10.3	10.25 01	-0.77
C		10.6	10.5	10.55 01	-0.95
D	6[9]7.2	B.		7.2 2	+1.15
a		10.6	10.6	10.60 00	-0.94
b		12.2	11.9	12.05 21	-1.59
c		12.6	12.6	12.60 00	-1.45?
d		13.3	13.3	13.30 00	-1.93
e		13.3	13.3	13.30 00	-1.93
f		t.p.	t.p.	.	.
α		11.7	11.6	11.65 10	-1.42
β		12.7	12.6	12.65 10	-1.79

9 11:56

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Thursday March 2, 1916 -

Copied Bk. 21:116.

Scale R for Relative Magns. Eros 1901 -

10.25 Mc 9397 (See 017:135) Obs. +.10

			Diff. from magns. on 017:135	Diff. Im.	P.C.
		sc.1 sc.2 sc.?		g sc.?	sc.2
	1	5.4 5.1		13.1 12.9 13.00 1 1	
	2	7.3 7.6	+0.65	n.s. n.s.	12.8 -5.46
	3	8.4 8.7 8.9 8.6 9.1 9.1 8.95 ± 11	-0.20		
Feb. 26 A=	4	10.4	-0.83		
Feb. 26 7=	5	10.7	-0.99		
	6	11.4 11.50 ± 1 11.6	-1.89		
Feb. 26 D=	7	11.8 11.70 ± 1 11.6	-1.26		
Feb. 26 E=	8	t.p.	.		
	9	12.4 12.25 2 1 12.1	-1.62		
	10	12.5 12.40 1 1 12.3	-1.52		
Feb. 26 J=	11	13.2 13.15 0 1 poor 13.1	.		
	12	t.p. t.p.	.		
Feb. 27 —	A	B ~~10.1~~ w.s.	curve	10.7 10.7 10.70 00	11.1 -4.99
	B	10.1 10.10 00 10.1	-0.71	mag 9.39	
	C	12.1 12.15 ± 0 12.2	-1.51	10.64	
	b	12.1 12.10 00 12.1	-1.50	10.60	
	d	t.p. t.p.	.	.	
	f	13.4 13.35 0 1 13.3	-1.85	11.50	
	g	t.p. t.p.	.		
	h	t.p. t.p.	.		
double.	i	11.2 12.3	-1.16 -1.55	10.04 10.75	
Feb. 26 (repeat)	B	10.7 10.70 00 10.7	-1.07		
	a	13.3 13.00 2 2 12.9	-1.79		
	C	12.1 12.10 00 poor 12.1 ?	-1.50	10.60 ?	
	G	11.5 11.45 1 0 11.4	-1.26	10.19	
K double	Q	13.1 13.20 ± 1 13.3	-1.89		

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Thursday ~~Febo~~ March 2, 1916.

Scale for Relative magns. Eros 1901 - Mc 9397 -

				Diff. from B.D. 17°.135	Diff. Im.	Pc.
Feb. 25 —	sc.1	sc.2	sc.2			
a	8.1 8.4	8.3		8.35 01	+0.18	
B		10.2	10.3	10.25 01	-0.75	
c		~~13.1~~ 10.6	10.4	10.50 11	-0.87	
D	7.1 7.4	~~13.3~~ B		7.4 a.	+0.10 m.s.	m.s.
a		10.8	10.6	10.70 11	0.87	
b		11.9	11.9	11.90 00	-1.31	
c		13.1	13.1 from	13.10 00	-1.79	
d		13.3	13.4	13.35 10	-1.81	
e		t.p.	t.p.	.	.	
f		n.s.	n.s.	.	.	
α		11.5	11.6	11.55 10	-1.24	
β		12.1?	12.3 from	12.20? 11	.	

10:55

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Monday March 6, 1916

curves on sheet 282

Scale R for Relative magns. S W Cygni

1:45

Mc 3878

	sc.1	sc.2		Diff.
l	8.7	8.7 8.6	8.65 10	2.75
m	8.5	8.8 9.1	8.95 21	3.00
o		10.3	10.25 10 10.2	2.34
p		9.4	9.40 00 9.4	2.68

			Curve	Magn.
n	9.7	9.65 10 9.6	2.58	12.23

Mc 6213

	sc.1	sc.2	sc.2	
l		9.3	9.30 00 9.3	2.10
m		9.8	9.85 01 9.9	2.10
o		10.9	10.80 10 10.7	1.79
p		10.2	10.15 01 10.1	1.93

			Curve	Magn.
n	10.4	10.45 01 10.5	1.88	12.33

Mc 6636

	sc.1	sc.2	sc.2	
l	8.7	8.7 8.5	8.60 11	2.80
m		9.3	9.30 00 9.3	2.65
o		10.4	10.40 00 10.4	2.19
p		9.5	9.60 11 9.7	2.48

			Curve	Magn.
n	9.8	9.75 01 9.7	2.45	12.20

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