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Observing Book. 19.

M. E. O'Reilly.

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This book examined through p. 193 for underlining.
Corrections entered in Copy Books.
O. Aug. 4, 1917.

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

Sept. 11, 1918.

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Wednesday February 2, 1916 -

Scale R. 1:35 — Scale measures of C3 + Eros 1901 - mc9840 - (see 017:139-40) C3 - YELLOW

		sc.1	sc.2	sc.3	Diff. Magnitudes B23.88	Diffr. Im. g h	sc.3
C3 -	1	B			.	11.40 00 11.4 11.4	11.7
	2	B			.	11.40 00 11.4 11.4	11.6
	3	4.2 3.9			2.52	11.35 1 0 11.3 11.4	11.5
	4	5.8 5.5			1.84	12.95 2 1 12.8 13.1	13.2
	5	6.6 6.3			1.42	13.45 0 1 13.4 13.5	13.2
	6	6.6 6.3			1.48	13.70 2 2 13.5 13.9	13.4
	7	6.7 6.4			1.43	13.35 1 0 13.3 13.4	13.5
	8	6.1 5.8			1.70	13.10 00 13.1 13.1	13.3
	9	7.8 7.5			0.83	m.s. f.	
	9b	7.2 6.9	B.		~~0.72~~ 0.62	f. f.	
	10	6.3 6.0	B.		1.78	13.15 0 1 13.2 13.1	13.4
	11	6.8 6.5	B.		1.26	13.70 2 2 13.9 13.5	13.4
	12	8.5 8.2	8.3	8.40 1 1	0.50	f. m.s.	
	13		9.2		-0.08		
	14		10.40 00 10.4	10.4	-0.94		
	15		10.50 00 10.5	10.5	-0.90		
	16		9.90 00 9.9	9.9	-0.51		
	17	9.3 9.0	9.23 1 00 9.2	9.2	-0.14		
	18		11.25 01 11.2	11.3	-1.14		
	19		11.25 1 0 11.3	11.2	-1.20		
	20		11.05 2 1 11.2	10.9	-1.09		
	21		12.00 1 1 11.9	12.1	-1.44		
	22		11.90 00 11.9	11.9	.		
	23		13.05 10 13.1	13.0	-1.84		
	24		11.25 0 1 11.2	11.3	-0.69		
	25		13.40 00 13.4	13.4	-1.96		

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Wednesday February 2, 1916.

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Scale R Scale meas of C3 — + Eros 1901—

mc 9840 C3 + Eros 1901 5+15° YELLOW

		13.2 13.30 1 1			
	26	† 13.4	-.182		
	27	† †.	.		
	28	m.s. m.s.	.		
	29	m.s. m.s.	.		
		9.50 0 0			
Feb. 23	A	9.5 9.5	-.028	9.22	
		10.25 0 1			
	B	10.2 10.3	-.072	9.53	
		11.50 0 0			
	C	11.5 11.5	-.129	10.21	
	D	7.9 7.6 B.	.072	8.62	
		13.45 1 0			
	a	13.5 13.4	-.196	11.49	
		13.40 0 0			
	b	13.4 13.4	-.194	11.46	
		13.80 ⊥ 1			
	d	13.7 13.9	.	.	
		7.7			
Feb. 22	A	7.4 B.	.085	8.55	
	B	8.2 7.9 B.	.053	8.73	
		12.20 0 0			
	C	12.21 12.2	-.150	10.70	
		9.50 0 0			
	D	9.5 9.5	-.028	9.22	
		11.00 1 ⊥			
	a	11.1 10.9	-.110	9.90	
		12.50 0 0			
	b	12.5 12.5	-.161	10.89	
		13.35 0 ⊥			
	d	13.4 13.3	-.191	11.44	
		13.75 ⊥ 0			
	f	13.7 13.8	.		
		12.35 0 ⊥			
	g	12.4 12.3	-.155	10.80	
	g	† †		.	
	θ	m.s. m.s.		.	

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Wednesday Feb. 2, 1916.

Scale R. Sc. measures of C3 and Seq. for Eros 1901-

Mc 9840 C3 5 +15° YELLOW

Feb. 21-		Sc. 1	Sc. 2	Cu	
	A		10.3	-.076	9.54
	B		11.5	-1.29	10.21
	C	8.2 1.9	B.	053	8.73
	D	8.7 8.4	8.60 8.5	030	8.90
	E	8.8 8.5	8.75 8.1	020	8.95
	a		11.3	-1.21	10.09
	b		12.1	-1.48	10.62
	e			.	.
	d		f.	.	.
	m		13.21	-1.88	11.32
	β		m.s	.	.

21 4: 30

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Thursday February 3, 1916-

Copied B 21: 111-

Scale R Sc Measures of C3 and Seq. for Eros 1901-

1- mc. 1083 C3. YELLOW

					P.C.
	sc.1	sc.2	sc.2	Diff. (Magnis B23:88)	sc.2
1	B.		.		11.2 – 4.32
2	B.		.		10,8 – 4.32
3	B		.		11.1 – 4.32
4	B		.		12.3 – 4.66
5	B		.		12.5 – 4.74
6			.		12.6 – 4.72
7	B.		.		12.9 – 4.90
8	5.6 5.3		.		12.5 – 4.97
9	tf.		.		13.4 – 4.67
9½	t.f.				13.3
10	58 5.5	B.		2.39	12.6 – 4.84
11	560 5.7	B		2.24	12.8 – 4.92
12	t.f.	B.		.	13.6 – 4.60
13	86 8.3	8.4	8.50 1 1	0.70	n.s. .
14		10.1		-0.54	
15		10.21		-0.46	
16		9.3		0.20	
17	87 8.4	8.9	8.80 1 1	0.70	
18		1040 0 0 10.4	10.4	-0.35	
19		1060 0 0 10.6	10.6	-0.38	
20		10.60 0 0 10.6	10.6	-0.38	
21		11.40 0 0 11.4	11.4	-0.88	
22		11.45 0 1 11.4	11.5	-0.71	
23		1225 0 1 12.2	12.3	-1.24	
24		10.55 1 0 10.5	10.6	-0.33	
25		12.40 1 1 12.5	12.3	-1.12	
26		12.55 1 0 12.5	12.6	-1.19	

all P.C. images are very sharp.

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Thursday / February 2, 1916 -

Scale R. Sc measures of C3 - 4 Eros 1901

Mc 7083 C3 YELLOW

		SO²	SO²		SO²
27		t.p.	t.p.		
28b		13.5 13.50 00	13.5		
28		13.7 13.65 10	13.6	-.149	
29		n.s.	n.s.		
30		n.s.	n.s.		
26a	1	13.0 13.10 L1	13.2		
26b		13.4 13.50 L1	13.6		
28a		f.	f.		

Eros Comp. Stars

Seq. Feb. 21

A	t.p.	.	f.	
B	.	.	n.s	
C	.	.	13.5 - 468	8.82
D	.	.	13.7 - 463	9.07
E	.	.		
α	13.4 13.40 00	13.4 -.145	11.95	
β	f	.	.	
a	t.f.	.	.	
b	11.5	-.087	10.63	

Feb. 22

A	B. B	.	13.3 - 473	8.87
B	B B 11.40 00	.	13.4 - 471	8.69
C	11.4 11.4	-.084	10.56	n.s.
a	10.3 10.30 00	10.3 -.034	9.96	
D	t.p.	t.p.		

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Thursday February 2, 1916 -

Scale R Se measures of Eros 1901 with stars in C3 -

Mcy 083 YELLOW

		Sc 2	Sc 2		
		11,75 1 0			
b		11.7	11.8	-0.98	10.77
		12 45 0 1			
d		12.4	12.5	-1.20	11.25
		13.20 0 0			
f		13.2	13.21	-1.39	11.81
g		m.s.	m.s.	,	,
		11.55 1 2			
j?		11.1	11.4	-0.90	10.65
Feb. 23	A	8.4 8.1	8.35 0 1	8.3	0.80	9.15	f.
	B	9.3 9 4 0 1 1		9.5	0.17	9.57	
	C	10.6 10 6 0 0		10.6	-0.49	10.11	
	D	(B.					13 4 - 4.71 8.69
		12 7 5 1 0					
a		12.7		12.8	-1.29	11.46	
		12 4 5 1 0					
b		12.5		12.4	-1.20	11.25	
		12 9 5 0 1					
d		13.0		12.9	-1.33	11.62	

2 1:58 -

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Friday February 4. 1916

Sheet No 268 4

Scale B

MC series 610 - YELLOW

9: 25

	MC10083 sec.1	MC10083 sec.2	MC10089 sec.1	MC10089 sec.2					
							O.C.	O.C.	
5	B						11.35 ∠ 0 Diff. 11.3	11.4	− 4.92
6	5.4 5.1		5.7 5.4		5.555	2 1 1.43	12.20 0 0 12.2	12.2	− 5.22
8	7.5 7.2 B.		7.5 7.2 B.		7.50	0 0 0.53	13.50 2 2 13.3	13.7	− 5.47
9	8.6 8.3	8.5 8.55 0 1	8.6 8.3	8.5 8.55 0 1	8.55	00 00 0.19	m.s.	m.s.	
10	8.8 8.5	9.1 8.95 2 1	8.9 8.6	9.1 9.00 1 1	8.98	03 02 − 0.10	ℓ m.s.		
11		9.9		10.2	10.05	1 2 − 0.69			
12		10.4		10.3	10.35	0 1 − 0.77			
13		11.1		11.3	11.20	1 1 − 1.12			
14		11.2		11.4	11.30	1 1 − 1.06			
15	12.15 ∠ 0 12.1	12.2	12.25 1 0 12.3	12.2	12.20	05 05 − 1.56			
16	12.35 1 0 12.3	12.4	12.50 1 1 12.6	12.4	12.42	07 08 − 1.48			
17	12.50 0 0 12.5	12.5	12.75 1 0 12.7	12.8	12.62	12 13 − 1.56			
18	13.35 0 1 13.4	13.3	13.20 1 1 13.1	13.3	13.28	07 08 − 1.72			
19	13.50 0 0 13.5	13.5	13.60 0 0 13.6	13.6	13.55	05 05 − 1.61			
20	ℓ	ℓ	m.s.	m.s.					
23									
25									

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Friday February 4, 1916.

Scale R

Mc Series 610 YELLOW

	Mc 10083 g	Mc 10083 h	Pole Mc 10089 g	Pole Mc 10089 h	Diffr. Inv.
	pc.2	pc.2	pc.2	pc.2	
	11.25 01		11.20 00		
5	11.2	11.3	11.2	11.2	11.22 03 02 – 4.79
	11.90 2 2		12.25 01		
6	11.7	12.1	12.2	12.3	12.08 18 17 – 5.10
	13.40 00		13.25 1 2		
8	13.4	13.4	13.1	13.4	13.32 08 07 – 5.29
9	↑	↑	n.s.	↑	, ,
10	n.s.	n.s.	n.s.	n.s.	, ,
11					
12					
13					
14					
15					

11.43

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Friday, February 4, 1916 -

Scale R

MC Series 610 YELLOW

MC 100 84 * X Leonis

Alt +.07

	sc.1	sc.2	Cw.	Magn	Diffr Imn. 9h sc.2	sc.2	Cw.	Magn	sc.2	Cw	Magn
					11.70 00						
α	B		.	.	11.1	11.1	- 497	6.73	11.6	- 504	6.56
β	B	B	.	.	11.00 11 11.1	10.9	.	.	11.4	- 496	6.44
γ	83 8.15 1 80	80	0.24	8.34	13.4 t.f.		- 5.30	8.10	13.6?	.	.
2	92 9.15 01 8.9	9.1	-0.20	8.95	m.s.	n.s.	.	.	m.c.	.	.
3		11.1	-.09	10.01							
1		10.5	-.085	9.65							
6 #		11.9	-.136	10.54							
#		12.2	-.146	10.74							
5		12.25 10 12.2	12.2	-.147	10.78						
7		12.50 00 12.5	12.5	-.154	10.96						
8		12.60 11 12.7	12.5	-.156	11.04						
9		13.00 11 12.9	13.1	-.163	11.37						
10		13.45 01 13.4	13.5	-.169	11.76						
11		t.	t.	.	.						

* See cover of plate for designations of c.s.

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Friday February 4, 1916-

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Scale R — Mc Series 610 - YELLOW — Card.

Mc 10085 — C 6 — 11 +15° — Alt + 10

					O.C.		
			Cw.	Magn	sec 2	Cw.	
1	B.		.	.	12.1	- 5.19	6.91
2	.		.	.	.	.	.
3	6.5 6.2		1.00	7.50	12.8	- 5.37	7.43
4	5.8 5.5		1.30	7.10	12.2	- 5.22	6.98
5	B.		.	.	12.6	- 5.32	7.28
6	7.4 7.1		0.59	7.99	13.2	- 5.43	7.77
7	8.0 7.7		0.36	8.36	13.9	.	.
8	B.		.	.	13.2	- 5.43	7.77
9	6.8 6.5		0.86	7.66	12.8	- 5.37	7.43
10	6.2 5.9	B.	1.13	7.33	12.1	- 5.34	7.36
10a	8.4 8.1	8.3 8.3501	0.16	8.51	m.s.	.	.
11		9.5	-0.39	9.12	m.s.	.	.
12	7.8 7.5	B.	0.40	8.20	13.5	- 5.46	8.04
13	8.8 8.5	8.8 8.8800	-0.03	8.77	m.s.	.	.
14		10.2 10.2 10.200	-0.72	9.48			
15	8.8 8.5	8.9 8.8801	-0.04	8.81	m.s.	.	.
16		11.4 11.4 11400	-1.20	10.20			
17		11.9 11.8 11850	-1.37	10.48			
18		12.5 12.6 12550	-1.55	11.00			
19		11.8 11.8 11800	-1.35	10.45			
20		12.2 12.2 12200	-1.47	10.73			
21		12.3 12.4 12350	-1.50	10.85			
22		12.6 12.6 12600	-1.56	11.04			
23		13.1 13.2 13150	-1.64	11.51			
24		t.p. t.p.	.	.			
25		t.p.	.	.			
26		t.p.	.	.			

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Friday February 11, 1916–

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Scale R. MC series 610 YELLOW

	MC10085	~~Pole~~ C6	Diffr. Inn.
	g h		
	pc2 pc2	Cu.	Magn
1	11.55 01 11.6 11.5	-492	6.63
2	. .	.	.
3	12.40 10 12.5 12.4	-518	7.22
4	12.35 10 12.3 12.4	-516	7.19
5	12.50 00 12.5 12.5	-520	7.30
6	13.10 00 13.1 13.1	-528	7.82
7	〃 〃	.	.
8	12.80 00 12.8 12.8	-524	7.56
9	12.90 00 12.9 12.9	-525	7.65
10	〃 〃	.	.
10a	〃 〃	.	.
11	. .	.	.
12	13.5 〃	.	.
13	n.s. n.s.	.	.
14			
15			
16			

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Friday February 4. 1916

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Scale R

Mc Series 6 10 - YELLOW

Mc 10085 ~~0 Leonis~~ 79K 11 20 +15.0°

Alt +10

Diffr Im.

	pc.1	pc.2		Cw.	Magn.	g pc.2	h pc.2	Cw.		pc.2	Cw.	
						11.30 0 0						
α	B.			.	.	11.3	11.3	-~~5.34~~ 4.84	~~5.96~~ 6.4	11.1	-5.07	6.63
	7.8					13.30 ⊥ 1						
2	7.5	Q.		0.40	8.20	13.2	13.4	-5.30	8.00	t.p.	.	
	7.7					13.45 0 1						
1	7.4	B.		0.45	8.15	13.4	13.5	-5.31	8.14	t.p.	.	
	8.5											
1a	8.2	8.2	8.35 12	0.16	8.51	‡	‡	.	.			
3		9.5		-0.39	9.11							
		10.15 ⊥ 0										
4		10.1	10.2	-0.70	9.45							
		10.60 0 0										
4a		10.6	10.6	-0.90	9.70							
		11.55 ⊥ 0										
6		11.5	11.6	-1.26	10.29							
		11.80 0 0										
5		11.8	11.8	-1.35	10.45							
		12.15 ⊥ 0										
5a		12.1	12.2	-1.45	10.70							
		12.70 ⊥ 1										
5b		12.6	12.8	-1.57	11.13							
7		t.p.	t.p.	.	.							
		13.10 0 0										
8		13.1	13.1	-1.64	11.46							
9		‡	13.9?	.	.							
10		‡	‡	.	.							
11		‡	‡	.	.							

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Card.

Scale R Mc Lewis 610 YELLOW

Mc 10087 α 2 12 +75° Alt +08

					Cw.	Magn	P.C. sec z		Cw.	
	1	B.			.		11.21	− 4.90	6.30	
	2	B.			.		12.2	− 5.23	6.97	
Edge	3	B			.		11.3	− 493	6.37	
(off film)	4	.			.		.	.	.	
	5	.			.		12.5	− 5.29	7.21	
	6	.			.		13.5	− 5.46	8.04	
	7	—	.		.		—	.	.	
	1a	6.3 6.0	B		1.10	7.40	12.9	− 5.38	7.52	
	8	—	.		.	.	—	.	.	
	8a	8.4 8.1	8.1	8.25 2 L	0.21	8.46	7.	.	.	
	8b	8.6 8.3	8.4	8.50 1 L	0.10	8.60				
	9	8.6 8.2	8.2	8.35 1 L	0.16	8.51				
	10	8.6 8.3	8.5	8.55 0 L	0.07	8.62				
	11		9.4		−0.33	9.07				
	12		10.30 00 10.3	10.3	−0.76	9.54				
	13	9.1 8.8	9.15 L0 9.2		−0.20	8.95				
	14		11.15 L0 11.1	11.2	−1.11	10.04				
	15		11.35 01 11.4	11.3	−1.19	10.16				
	16		11.20 00 11.2	11.2	−1.13	10.07				
	17		10.80 00 10.8	10.8	−0.99	9.81				
	17a		13.00 11 13.1	12.9	−1.63	11.37				
	18		13.30 11 13.4	13.2	−1.66	11.64				
	19		13.40 00 13.4	13.4	−1.68	11.72				
	20		13.15 L0 13.1	13.2	−1.65	11.50				
	21		13.35 01 13.4	13.3	−1.67	11.68				
def?	21a	tb tb-	13.45 10		−1.68	11.77	22 m.s. 23 m.s.			

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Friday February 4, 1916.

Scale R Mc Series 610 YELLOW

	Mc 10087 g	h	a 2	12 + 75. Diffr. Im.
	sc 2	sc 2	Cu.	
	10.70 00			
1	10.7	10.7	.	
	11.65 37			
2	11.9	11.7	-4.95	6.70
	1065 01			
3	10.6	10.7	.	.
off fr. 4	.	.	.	.
5	t.f.	t.f.	.	.
6	t	t	.	.
	1260 00			
7a	12.6	12.6	-521	7.39
7a	t.f.	t.	.	.
8f	t.	t	.	.
9	n.s.	n.s.	.	.
10	n.s.		.	.
11				
12				
13				
14				

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Scale R Mc series 610 YELLOW Card.

Mc 10088 B5 12h +45° Alt +13

					Cu.	Magn	cc 2	Cu.	
1	B.				.	.	11.6	− 5.04	6.56
2	6.4 6.1				.103	7.43	12.8	− 5.37	7.43
3	7.1 6.8				0.73	7.83	13.5	− 5.46	8.04
4	8.7 7.9	8.1	8.15 0 1		0.24	8.39	f	.	.
5	8.7 7.9	B: 8.1			0.22	8.42	n.s.	.	.
6	7.4 7.1	B.			0.58	7.98	13.3	− 5.44	7.86
7	9.2 8.9	9.1	9.30 L 1		-0.28	9.02	n.s	.	.
8	7.8 7.5	B.			0.40	8.20	f.	.	.
9	8.9 8.6	9.2	9.05 1 2		-0.14	8.96	n.s.	.	.
10		10.2			-0.72	9.48			
10a		10.1			-0.95	9.75			
11	8.0 7.7	8.1	8.05 0 1		0.30	8.35	f.	.	
12		10.1			-0.95	9.75			
13		11.8			-1.35	10.45			
14		11.8			-1.35	10.45			
15		11.70 0 0 11.7	11.7		-1.30	10.40			
16		11.85 1 0 11.9	11.8		-1.37	10.48			
17a		11.70 0 0 11.7	11.7		-1.30	10.40			
17b,c		12.00 L 1 11.9 f	12.1		-1.40	10.60			
18		12.85 0 1 12.8	12.9		-1.60	11.25			
19		13.40 0 0 13.4	13.4		-1.68	11.72			
20		f	13.6?		-1.69	11.91?			
21		13.40 0 0 13.4	13.4		-1.68	11.72			
22		13.40 0 0 13.4	13.4		-1.68	11.72			
23		n.s.	n.s.		.	.			
24		n.s-	n.s.		.	.			
25		n.s.							

Also dbl. ft. component too faint

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Friday February 4, 1916–

Scale R

Mc Series 610 YELLOW

	Mc 10088		B5	12 +45 Diff'l m.
	g	h		
	Rect	Rect	Cw.	
1	11.35 1 0	11.4	−5.36	5.99
2	12.55 1 0	12.6	−5.20	7.35
3	13.20 0 0	13.21	−5.29	7.91
4	↓	13.8	,	,
5	↓	13.4	−5.31	8.09
6	13.25 2 1	13.1	−5.29	7.96
7	m.s.	m.s.	,	,
8	↓	↓	,	,
9	m.s.		,	,
10				
10a				

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Saturday February 5, 1916.

Sheet No 264

Scale R Mc Series 603 - YELLOW

11:10. *Mc 9999 Pole -

10004

	sc.1	sc.2		sc.1	sc.2			Diff.		sc.2	sc.2	Diff
										P.C. 11.55 01	P.C.	
5	B.			B.						11.6	11.5	-.512
	5.6			5.6						12.35 1 2		
6	5.3			5.3		5.60	0 0	1.38		12.5	12.2	-.537
	7.4			7.7						13 40 00		
8	7.1	B.		7.4	B.	7.55	2 1	0.48		13.4	13.4	-.537
	8.7			8.5								
9	8.4	8.8	8.75 1 0	8.2	8.5	8.50 00	8.62	13 12	0.12	m.s.	m.s.	
	9.0			8.8								
10	8.1	9.2	9.10 1 1	8.5	8.9	8.95 1 1	9.02	08 07	0.14			
11		10.2			10.1		10.15	0 1	0.79			
12		10.1			10.4		10.55	1 2	0.97			
		11.25 1 0			11.25 1 0							
13		11.3 11.2			11.3 11.2		11.25	00 00	-1.17			
		11.70 2 2			11.45 1 0							
14		11.5 11.9			11.5 11.4		11.58	12 13	-1.34			
		12.10 00			12.30 1 1							
15		12.1 12.1			12.4 12.2		12.20	10 10	-1.56			
		12.65 1 0			12.80 1 1							
16		12.1 12.6			12.9 12.1		12.72	07 08	-1.78			
		12.80 1 1			13.00 1 1							
17		12.9 12.1			13.1 12.9		12.90	10 10	-1.86			
		13.45 01			13.45 1 0							
18		13.4 13.5			13.5 13.4		13.45	00 00	-1.89			
19		f. f.			f f.							
20			m.s.			m.s.						
23												
25												

measure but

"Film irregular" ^ Examine residuals of pole plate carefully

H.S.L. Feb 5

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Saturday February 5. 1916.

Scale A. Mc series 603. YELLOW

	Mc 9999- g	h	Orbs Mc 10004 g	h	Diffr. Images.			
	sc 2	sc 2	sc 2	sc 2				
	11 20	1 1	11.10	00				
5	11.3	11.1	11.1	11.1	11.15	05	05	– 4.72
	12.15	1 0	12.15	1 0				
6	12.1	12.2	12.1	12.2	12.15	00	00	– 5.17
	13.40	1 1	13.45	1 0				
8	13.3	13.5	13.5	13.4	13.42	02	03	– 5.39
9	ϕ	ϕ	n.s.	n.s.	.		.	
10	n.s.				.		.	
11								
12								

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Scale R — Mc Series 603 - YELLOW — Card

Mc 10000 — ~~D~~ Eros 1901 — 5 10 +17.5 — Alt +10

		sc.1	sc.2	Curve	Magn	Diffr Inv. g h Cu			P.C. sc.2		
						12.30 00					
A	1	B.		.	.	12.3 12.3	-.518	7.12	12.3	-.566	6.64
B	2	7.9 7.6	B.	.036	8.26	13.50 00 13.5 13.5	-.543	8.07	~~n.s.~~ 13.9	.	.
	3	9.5		.043	9.07	n.s. n.s.	.	.	n.s.	.	.
	4	10.6		.098	9.62						
	5	11.1		.120	9.90						
	4	12.1		.154	10.56						
	5	10.5		.095	9.55						
	6	12.6		.174	10.86						
	4	12.30 00 12.3 12.3		.162	10.68						
	8	13.45 01 13.4 13.5		.192	11.53						
	9	12.35 01 12.4 12.3		.164	10.71						
	10	13.25 01 13.2 13.3		.190	11.35						
	11	13.55 10 13.5 13.6		.193	11.62						
	12	~~f~~ ~~f~~		.	.						

Seq. Feb. 22

A	7.9 7.6		B.	0.36	8.26	n.s.	n.s.	
B	8.6 8.3	8.50 11 ~~10.3~~	8.4	0.09	8.59			
C			12.2	-.159	10.61			
D	~~11~~		10.1	-.075	9.35			
y?			12.3	-.161	10.69			
a			11.1	-.119	9.91			
b		~~12.3~~	12.3	-.161	10.69			
d		~~13.2~~	13.2	-.190	11.30			
~~c~~		~~12.4~~						
e		~~10.4~~	~~f~~	.	.			
wrong stars meas. here.								
f			13.4	-.192	11.48			
~~B~~		~~12.6~~						

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Scale R — Mc Series 603. YELLOW

		Mc 10000	Eros 1901 cont.		5 10+17.5
			Cu.		
Feb. 23		sc1 sc2	-049		
	17	9.6		9.11	
	B	10.4	-0.90	9.50	
	C	11.4	-1.30	10.10	
	D	8.5 8.40 1 1 8.2 8.3	0.13	8.53	
	a	13.15 0 1 13.2 13.1	-1.89	11.26	
	b	13.10 0 0 13.1 13.1	-188	11.22	
	d	13.30 0 0 13.3 13.3	-191	11.39	
Feb. 25	A	8.8 8.95 2 1 8.5 9.1	-012	8.83	
	B	10.4 ~~7.6~~	-090	9.50	
	C	10.1	-1.00	9.70	
	D	7.9 1.6 B	0.36	8.26	+ p.
	α	11.1	-141	10.29	
	a	10.1	-1.01	9.69	
	b	12.2	-159	10.61	
	c	12.60 0 0 12.6 12.6	-173 4	10.86	
	d	13.35 1 0 13.3 13.4	-191	11.44	
	e	13.40 0 0 13.4 13.4	-192	11.48	
	f	~~1~~ ~~1~~	,	,	
	β	12.50 1 1 12.6 12.4	-170	10.80	

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Scale R

Mc Series 603 - YELLOW

	Mc 10001		Z Tauri		5 to +15°.				Alt. corr. +.10		
					Diffr. Inm.				P.C.		
					g	h					
					sc 2	sc 2			sc 2		
a	B.	B.	.	.	13.4	13.3 (13.35 01)	-5.41	7.94	13.4	-5.96	7.44
b	8.1 1.8	B	0.26	8.36	‡	‡	.	.	‡	.	.
a'	58 8.5	8.1	8.75 01	-0.05	8.70	n.s.	n.s.	.	.	n.s.	.
b'	84 8.1	8.3	8.35 01	0.15	8.50						
d		10.1		-0.76	9.34						
c'		10.21		-0.80	9.40						
f		10.1		-0.76	9.34						
g		10.3		-0.85	9.45						
h		10.3		-0.85	9.45						
close dbl. e		10.6		-0.98	9.62						
d'		11.21		-1.23	9.97						
d²		11.5		-1.35	10.15						
e'		t.p.		.	.						
k		12.3		-1.62	10.68						
f'		12.4 (12.40 00)	12.4?	-1.68	10.72?						
l		13.2 (13.20 00)	13.21	-1.90	11.30						
g'		13.4 (13.40 00)	13.4	-1.92	11.48						
n		13.1?	t.p.	-1.88	11.22?						
m		t.p.	t.p.	.	.						
k'		13.4 (13.35 01)	13.3	-1.91	11.44						
h		13.5 (13.55 00)	13.6	-1.93	11.62						
q		t.p.	t.p.	.	.						
l'		t.p.	t.p.	.	.						
Var.		n.s.	n.s.	.	.						
Seq. not in centre.				-	-						

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Scale R. MC Series 603. YELLOW

MC 10001 cont. 5 40 +15.0° Alt. corr. +10

Ref.	Seq.	sc.1	sc.2	Cw.		Diff. Inv. sc.2	h sc.2			P.C. sc.2		
	2	7.8 1.5	B.	0.41	8.21	≠	t.f.	.	.	n.s.	.	.
	3	8.22	8.3	0.14	8.54							
	3a		9.3	-0.32	8.98							
	4		10.3	-0.80	9.40							
	4a		10.4	-0.88	9.47							
	4b		11.2	-1.17	9.88							
	5		11.9	-1.51	10.49							
	6		t.f.	-1.48	10.42							
	8		t.f.	-1.55	10.55							
	7		12.6	-1.74	10.86							
	9		13.5	-1.92	11.58							
	10		t.	t.	.	.						

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Scale R

Mc Series 603 - YELLOW

	Mc 10002		N.Y.C. 2099		5 45/50 +32.5 also R Z aurigae. Diffr Imm.			alt. corr. +.12		
	sc.1	sc.2	Cu	Magn	sc.2 per.2 q h	Cu		sc.2	Cu	
					11.50 11					
α	B		.	.	11.4 11.6	-4.91	6.59	11.8	-5.48	6.32
β	5.8 5.5		1.30	7.10	12.45 10 12.5 12.4	-5.21	7.24	12.7	-5.80	6.90
γ	7.5 7.2		0.55	8.05	13.30 11 13.2 13.4	-5.40	7.90	13.5	-5.97	7.53
2	7.5 7.2		0.55	8.05	13.40 00 13.4 13.4	-5.42	7.99	13.5	-5.97	7.53
1	7.6 7.3	B	0.50	8.10	13.45 01 13.4 13.5	-5.42	8.03	13.5 13.6	-5.97	7.53
1a	7.9 7.6	B.	0.36	8.26	tfp tfp.	.	.	13.6	-5.98	7.62
3	9.2 8.9	9.2 9.20 00	-0.30	8.90	n.s. n.s.	.	.	n.s.	.	.
4		9.7 9.6 9.65 10	-0.50	9.15						
4a		10.9 10.8 10.85 10	-.108	9.77						
4b		11.4 11.4 11.40 00	-.130	10.10						
4c		12.1 12.3 12.20 11	-.159	10.61						
5		12.9 12.9 12.90 00	-.182	11.08						
6		13.9 13.9? 13.90 00		.						

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Seq. for R Z Aurigae

a'	B.		.	.	11.70 00 11.7 11.7	-4.98	6.72	12.2	-5.64	6.56
a²	B		.	.				tfp.	.	.
a		9.5	-.043	9.07						
b		10.1	-0.76	9.34						
c		11.1 10.8 10.95 12	-.111	9.84						
d		11.6 11.7 11.65 01	-.140	10.25						
d'		12.4 12.4 12.40 00	-.168	10.72						
e		12.4 12.5 12.45 01	-.169	10.76						
f		12.8 12.6 12.70 11	-.177	10.93						
f'		13.6 13.8 13.70 11	.	.						
g		? ?	.	.						
h		13.7	.	.						

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Saturday February 5, 1916

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Scale R — W.D. Mc Series 603 - YELLOW — Card.

Mc 10003 — N.G.C. 2168 — 6 00 +25.0° — Alt. corr. +.11

	sc.1	sc.2	Av.	Magn	Diffr. Im. sc.2 sc.2				P.C. sc.2		
1	B.		,	,	11.8 (11.85 0.1)	11.9	-5.02	6.83	12.3	-5.67	6.63
1a	7.1 (4.7)		0.45	8.15	″	″	-,	,	″	,	,
2	8.0 (1.4)	B.	0.31	8.31					″	,	,
2a		9.5	-0.43	9.07							
2b		10.4	-0.90	9.50							
3		10.9	-1.09	9.81							
4		11.4	-1.30	10.10							
5		11.21	-1.23	9.97							
6		11.90 00 11.9 11.9 (12.10 00)	-1.48	10.42							
7		12.1 12.1	-1.55	10.55							
8		12.1 12.2 (12.15 1.0) (12.80 00)	-1.56	10.59							
9		12.8 12.8 (13.50 00)	-1.79	11.01							
10		13.5 13.5 (13.90 00)	-1.92	11.58							
11		13.9 13.9	,	,							

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Monday February 7. 1916.

Sheet No 264 5

Scale ~~50~~ R

1:30

MC Series 603. YELLOW

Mc 10004 Pole Mc 10010.

	Ac.1	Ac.2		Ac.1	Ac.2				P.C. Ac.2	P.C. 10010 Ac.2	
5	5.6			B. 5.4				Diff	11.4 11.35 01	11.3	-.492
6	5.3			5.1		5.50	1 1	.148	12.3 12.30 00	12.3	-.532
8	7.5 7.2 8.5	B.		7.4 7.1 8.5 8.2	B.	7.45	1 0	.058	13.4 13.45 01	13.5	-.542
9	8.2	8.8	8.65 1 2	8.4 8.5	8.50	0 0	8.58	07 05	.016	†	†
10	8.6 8.9	8.9	8.90 0 0	8.4 8.7	8.8	8.75	1 0 8.82	08 07	.006		
11		10.1			10.1		10.10	0 0	-.074		
12		10.5			10.3		10.40	1 1	-.082		
13		11.2			11.2		11.20	0 0	-.112		
		11.40 00			11.30 00						
14		11.4	11.4		11.3	11.3	11.35	05 05	-.111		
		12.20 00			12.20 00						
15		12.2	12.2		12.2	12.2	12.20	00 00	-.156		
		12.65 01			12.65 10						
16		12.6	12.7		12.7	12.6	12.65	00 00	-.171		
		12.80 00									
17		12.8	12.8		t.p.	t.p.	12.80	≏ .	-.176		
		13.40 00			13.65 21						
18		13.4	13.4		13.8	13.5	13.52	12 13	-.196		
		†	†		14.00 00						
19					14.0	14.0	14.00	. ≏	-.206		
20					L.n.s. n.s.		.		,		
23											
25											
26											
27											

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Monday, February 7, 1916 -

Scale R

Mc Series 603 - YELLOW

	Mc 10004		Pole.		Diffr. Sam		
			10010				
	g	h	g	h			
	sc.2	sc.2	sc.2	sc.2			
	11.10	00	10.95	2 1			
5	11.1	11.1	10.8	11.1	11.02	08 07	-459
	12.30	1 1					
6	12.2	12.4	t.p.	12.2	12.25	05 05	-527
	13 45	10	13.2	13.30 1 1			
8	13.5	13.4	~~13.8~~	13.4	13.38	07 08	-535
9	f	f.	f	f			
10							
11							
12							
13							
14							

3:15

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Monday February 7, 1916.

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Scale R

Mc 603 - YELLOW Card.

Mc 10005 Eros 1901 6 20+10.0 Alt +.08

		sc.1	sc.2		Cu.	Magn	g sc.2	h sc.2			B.C. sc.2	
							10.35 0 1					
α	B.				.	.	10.4	10.3	.	.	10.1	. .
β	B				.	.	12.25 10 12.3	12.2	-.518	7.07	12.4	-.531 7.09
γ	B.	B.			.	.	12.60 1 1 12.5	12.7	-.529	7.31	12.8	-.538 7.42
1	87 11.9	8.1	8.15 0 1		0.30	8.45	m.s.		.	.	1.	. .
2	86 8.3	8.5	8.55 0 1		0.12	8.67						
2a	91 8.8	9.2	9.15 1 0		-0.20	8.95						
2b		9.5			-.37	9.13						
3		10.1			-.69	9.41						
3a		10.50 0 0 10.5	10.5		-.88	9.62						
4		11.25 10 11.3	11.2		-1.20	10.05						
6		12.35 1 0 12.3	12.4		-1.61	10.74						
5		12.15 1 0 12.1	12.2		-1.55	10.60						
7		13.45 10 13.5	13.4		-1.97	11.48						
	508	12.9			-1.80	11.10						
M.H. Sequence.	509	12.4			-1.64	10.76						
	510	13.3			-1.91	11.39						
March 16.	A	~~10.6~~			~~-.092~~	~~9.68~~						
	B	93 9.0 9.3 0 0	9.3		-0.27	9.03	m.s.	m.s.			m.s.	
	C	B.	B.		.	.	12.60 1 1 12.5	12.7	-.529	7.31	12.7	-.536 7.34
	D	10.4			-.84	9.56	m.s.		.	.		
	E	9.0 8.1	9.05 0 1	9.1	-0.12	8.93						
	a	~~11.4~~	11.50 1 1	~~11.6~~	~~-1.30~~	~~10.20~~						
	b	~~12.4~~	12.65 1 0	~~12.6~~	~~-1.71~~	~~10.94~~						
	c	12.5	12.45 1 0	12.4	-1.65	10.80						
	b f d	12.8	12.75 0 1	12.7	-1.75	11.00						

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Monday February 7. 1916–

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Scale R Mc Series 603. YELLOW

Mc 10006 N.G.C. 2781 6 to −20° alt. corr. −.20

	sc.1	sc.2	Cu	Magn	Diff. In. g	Diff. In. h	P.C. sc.2
1	B.		.		11.6 (11.50)	11.4	−4.90 6.60	12.1 − 5.23
1	6.4 (6.7)		0.94	7.64	t.p.	t.p.	. .	t.p. .
2w	8.4 (8.25)	8.1 (2.1)	0.28	8.53	≠	≠	. .	±. .
3	8.4 (8.7)	9.1 (8.90) (2.2)	−0.04	8.86				n.s. .
3a		9.4	−0.21	9.19				
4		9.8 poor	−0.53	9.27				
5		10.1	−0.69	9.41				
6		t.p.	.	.				
8		t.p.	.	.				
7		t.p. t.p.	.	.				
9		t.p. t.p.	.	.				
10		13.1 (13.10 00) 13.1	−1.85	11.25				
11		t.p. t.p.	.	.				
14		13.4 t.p.	−1.95	11.45?				
12		t.p. t.p.	.	.				

Images very large and hazy. not comp. with scale.

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Monday February 7, 1916

Scale R — Mc Series 603 YELLOW — Cand

Mc 10001 — N.G.C. 2301 — 6 40 00 — Alt. corr. +.02

		sc.1	sc.2		Cw.	Magn	Diffr. sc.2	Diffr. sc.2	Diffr. Cw.		P.C. sc.2	P.C.	
dbl:	α	B			.	.	11.7000 11.7	11.7	−4.98	6.72	t.f.	.	
	β	B.			.	.	12.1000 12.1	12.1	−5.14	6.96	12.1	−5.23	6.87
	2	7.4 7.1	B.		0.64	8.04	13.1500 13.2	13.1	−5.39	7.76	13.3	−5.45	7.85
	1	8.4 8.1	8.1	8.25 2 1	0.28	8.53	n.s.	n.s.	.	.	n.s.	.	.
	3	8.6 8.3	8 9.1	8.75 2 1	0.04	8.79							
	3a	8.8 8.5	88	8.80 0 0	0.00	8.80							
	4		10.2		−0.72	9.48							
	4a		10.9		−1.04	9.86							
	5		11.4		−1.26	10.14							
	7		11.10 0 0 11.1	11.1	−1.12	9.98							
	6		11.35 0 1 11.4	11.3	−1.24	10.11							
	8		12.15 0 1 12.2	12.1	−1.55	10.60							
	9		13.00 1 1 13.1	12.9	−1.83	11.17							
	10		13.30 0 0 13.3	13.3	−1.91	11.39							
	11		t.f.	t.f.	.	.							

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Scale R — Mc Series 603 - YELLOW — Copied in Bk 21:120 — Card.

Mc 10008 — Eros 1901 — 6 50 +7.5. — Alt. corr. +.06

		sc.1	sc.2	Cu.	Magn.	g h sc.2	sc.2	Cu		B.C. sc.2	Cu
Mar. 23											
	1	B.		.	.	12.5 12.45 10	12.4 00	-.524	7.21	12.7	-.536 7.34
	2	6.4 6.1		1.06 -.069	7.46	12.8 12.80	12.8	-.532	7.48	12.8	-.539 7.41
	3	7.8 7.5	B	.048	8.28	13.5	7.	-.544	8.06	t.p.	. .
	4		9.3	-.026	9.06	n.s.	n.s.	.	.	n.s.	. .
	A		9.1	-.048	9.22						
	D		10.3	-.078	9.52						
	E		10.4	-.082	9.58						
	B		11.1 11.10 00 11.1	-.111	9.99						
def?	C		. .	.	.						
	C'		11.95 12 12.1 11.8	-.148	10.44						
	b		12.25 10 12.3 12.2	-.159	10.66						
	*519		12.5 mean 12.63	-1.71 -.165	10.85 92						
	a		13.40 00 13.4 13.4	-.195	11.45						
wrong unit.	δ		13.1 13.10 3 00 13.1	-1.85	11.25						
	*519		~~12.40 11~~ 12.8 12.6 13.30 00	~~-.173~~	~~10.97~~						
	a		13.3 13.3	-.191	11.39						
	517		not meas.								

* Same star., 517 not measured.

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Monday February 7, 1916 -

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Scale R Mc 6033 YELLOW Cand

Mc 10009 N.G.C. 2323 6 50 - 7.5° Alt. corr. -.02

		sc.1	sc.2			Cw.	Magn	Diffr. 9h sc.2	Diffr. h sc.2			P.C. sc.2	
α						,	,	11.25 01 11.2	11.3	- 4.79	6.46	11.4	- 4.99 6.41
β	6.8, 6.5					0.90	7.70	13.50 00 13.5	13.5	- 5.43	8.07	13.6	- 5.48 8.12
1	8.5 8.21	8.2	8.35	1.2		0.21	8.56	f.	f.	.	.	n.s.	. .
2	8.4 8.1	8.1	8.25	2.1		0.28	8.53					n.s.	. .
2a		9.5				-0.36	9.14						
4		9.7				-0.49	9.21						
3		10.1				-0.69	9.41						
7		10.3				-0.78	9.52						
5		t.fr.				.	.						
5a		11.4	t.fr.			-1.25	10.15						
6		t.fr.				.	,						
8		t.fr.				.	.						
9		12.2				-1.57	10.63						
11		f.				,	,						
13		t.fr.				,	,						
10		t.fr.				,	,						

Became very dark during these measures.

Images elongated and rather hazy. Comparison with scale difficult.

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Thursday February 10, 1916.

Sheet No 264 5

Scale R mc Series 6 2 2 YELLOW

9:20 mc 10235 Pole —

	10240 sc.1	sc.2		10246 sc.1	sc.2	sc.2		Diff
5	B. 54			B. 56			,	,
6	5.1			5.3			5.47 1 1 1	1.51
8	7.4 7.1	B.		7.7 7.4	B.		7.50 1 1 2	0.53
9	8.6 8.3	8.3	8.45 2 1	8.6 8.3	8.55 0 1 8.5		8.47 02 07 08	0.27
10	8.8 8.5	9.2		8.7 8.4	8.90 2 2 9.1		9.02 18 07 12	-0.14
11		10.1			10.1		10.2	10.13 0 0 1	-0.77
12		10.4			10.4		10.3	10.37 0 0 1	-0.79
13		11.1			11.1		10.9	11.03 1 1 1	-0.95
14		11.5			11.2		11.1	11.27 2 1 2	-1.03
15		12.00 1 1 12.1	11.9		11.75 1 0 11.9	11.8	12.10 00 12.1	12.1 11.95 05 20 15	-1.31
16		12.45 1 0 12.5	12.4		12.30 00 12.3	12.3	12.30 1 1 12.2	12.4 12.35 10 05 05	-1.41
17		12.50 00 12.5	12.5		12.40 00 12.4	12.4	12.40 0 0 12.4	12.4 12.43 07 03 03	-1.39
18		13.30 00 13.3	13.3		13.10 00 13.1	13.1	13.15 1 0 13.1	13.2 13.18 12 08 03	-1.62
19		13.50 00 13.5	13.5		13.25 01 13.2	13.3	13.4	13.38 12 13 02	-1.44
20		f.	f.		f.	f.	f.	f. ,	.
23									
25									
26									
27									
28									
29									
30									

Whole series poor

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Thursday February 10, 1916.

Scale R

Mc Series 622 - YELLOW

	Mc 10235		Mc 10240	Pole 10246	P.C.			Diff
	sec.	sec.	sec.	sec.				
5	11.4		11.4	11.2	11.33	~~07~~ 07 13		− 4.90
6	12.4		12.1	12.1	12.20	2 1 1		− 5.22
8	13.3		13.2	13.1	13.20	1 0 1		− 5.17
9	def?		13.6.	7.				− 4.86
10	n.s.		n.s.	n.s.				
11								
12								
13								

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Thursday February 10, 1916 -

Scale R

Mc Series 622 - YELLOW

	Mc 10235		Pole. 10240		Diff. Images.		
	g	h	g	h	g	h	
	sc.	sc.	sc.	sc.	sc.	sc.	Diff.
	1100	1 1	1085	1 0	11.00	1 1 10.9	
5	10.9	11.1	10.9	10.8	~~10.9~~ 11.1	~~11.1~~	10.95 05 10 05 – 452
	11.70	1 1	11.45	1 0	11.65	1 0	
6	11.8	11.6	11.5	11.4	11.7	11.6	11 60 10 15 05 – 462
	13.15	0 1	13.10	00			
8	13.2	13.1	13.1	13.1	12.9	t.f.	13 05 10 05 15 – 502
9	f	f	f	f.	f	f	
10							

After Series completed 12:05

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Thursday February 10, 1916 -

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Scale R

Mc Series 6222 YELLOW

Mc 10 8 37 | N.G.C. 2301 | 6 48 0.0 | alt. corr. .00

	This seq. for Cluster not DM.	sc.1	sc.2	Cw.		all Diffr. Im. t. f.	all P.C. t. f.
a	1			.			
b	2	7.7 7.4		0.46	8.16		
c		8.6 8.3		0.05	8.65		
c'			9.3	-0.28	9.02		
d			10.4	-0.80	9.60		
d'			t.f.	.	.		
d²			11.3	-1.09	10.21		
e			t.f.	.	.		
f			.	.	.		
g			.	.	.		
h			t.f.	.	.		
k			t.f.	.			
l			t.f.	.			
m			t.f.	.			
m'			t.f.	.			
m²			t.f.	.			

Images are very poor. Difficulty in comparing them with scale.

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Thursday February 10, 1916.

Scale R Mc Series 622 YELLOW copied Bk 21: 121

Mc 10238 Eros 1901 7 0 +5.0° Abb. corr. +.03

		sc.1	sc.2	Cw.	Magn.	Diffr. Im. sc.2	Diffr. Im. sc.7	Cw.		P.C. sc.2	P.C. Cw.	
Ref. Seg. for Centre	α	B. 5.9		.		10.4	10.3	.	.	10.7	.	.
	1	5.6		1.30	4.20	12.1	t.p.	-.460	7.50	12.2	-.518	7.02
	1a	7.8 7.5	B.	0.40	8.20	t.p.	t.p.	.	.	13.1	-.516	7.94
	2		9.1	-.019	8.91	n.s.	n.s.	.	.	n.s.	.	.
	2a		10.3	-.076	9.54							
	3		10.2 4	-.080	9.60							
	4		11.6 11.50 11	11.4 -.116	10.34							
	5		t.p.	t.p. .	.							
	6		12.3 12.35 1.0	12.4 -.140	10.95							
	7		t.p.	.	.							
	8		t.p.	.	.							
	10		t.p.	.	.							
Mar. 28	A		9.5	-.039	9.11							
	B		10.1	-.068	9.42							
	C		9.9	-.059	9.31							
	D		t.p.	.	.							
	E		10.5	-.082	9.68							
	F		9.9	-.059	9.31							
	H &	B.		.	.					t.p.	.	
	a		t.p.	.								
	b		t.p.	.								
	c		t.p.	.								
	d	t.p.		.								
	f		12.5	-.145	11.05							

Images very poor

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Thursday February 10, 1916.

Scale R Mc Series 6227 YELLOW

		Mc 10238	Eros 1901	7 +5.0°	Abb. corr. +.03
		sc 1		Diffs. Im g h	P.C. nc.r
Mar. 29	A			t.f. t.f.	10.7 . .
	C				n.s
	D				
	E				
	F				
	a				
	b				
	c				
	y				

All above stars are too faint to measure.
Images are large & hazy and are not
Comparable with scale.

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Thursday February 10, 1916.

Card.

Scale B

Mc Series 622 YELLOW

Cycid Bk 23:172

Mc 1024 #1

D5

9 - 15°

alt. corr. -.10

		sc. 1	Cw.	Magn	PC. sc. 2 Cw.		
edge.	1	B.	.	.	12.1	- 5.16	6.94
	2	B	.	.	12.3	- 5.19	7.11
	3	B.	.	.	11.2	- 4.91	6.29
	4	t.f.	.	.	t.f.	.	.
	5	7.6 f.3	0.50	8.10	13.1	- 5.16	7.94
	6	7.7 f.t B.	0.46	8.16	t.f.	.	.
	7	8.4 8.1 8.30 1 1 8.2	0.19	8.49	f	.	.
	8	7.5 f.2 B	0.54	8.04	13.3	- 5.10	8.20
	9	7.4 f.1 B	0.60	8.00	13.1	- 5.16	7.94
	10	8.4 8.1 8.25 2 1 8.1	0.21	8.46	n.s.	.	.
	11	8.4 8.1 8.30 1 1 8.2	0.19	8.49	n.s.	.	.
	12	9.8	-0.55	9.25			
	13	10.3	-0.76	9.54			
	14	9.3	-0.29	9.01			
	15	t.f. 11.1?	-.102	10.08?			
	16	9.4 9.5 9.45 0 1	-0.36	9.09			
	17	10.5 10.4 10.45 1 0	-.081	9.64			
	18	11.2 t.f.	-.108	10.12			
	19	11.2 11.3 11.25 0 1	-.108	10.17			
	20	t.f. 12.5	-.145	11.05			
	21	11.5 11.5 11.50 0 0	-.115	10.35			
	22	t.f. t.f.	.				
	23	t.f. t.f.	.				
	24	t.f. t.f.	.				
	25	t.f.	.				
	f?	t.f.	.				

Images + PC from.

See also next page.

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Scale R Mc series 622 YELLOW

	Mc 10241		D 5	Diffr 1m.	Alt. Corr. -.10
	g	h			
	sec.	sec.			
1	t.p.	.	.		
2	.	.	.		
3	10.7	11.1	-4.50	6.40	
4	t.p.	.	.		
5	t.p.	.	.		
6	t.p.	13.3	13.3	.	
7	7	.	.		
8	.	.	.		
9	.	.	.		
10	.	.	.		
11					
12					
13					
14					

(dot) · in place place of scale measure = two poor.

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Scale R Mc Series 6242 YELLOW Copied Bk 21, 133

Mc 10242 Eros 1901 9 0 0.0 Alt. corr. +.03

		sc.1	sc.2	Cw.	Magn	Diffr. Im. sc.1	sc.2	Cw.		P.C. sc.2	Cw.	
						9 h						
1		B		.	.	11.5	11.6	-4.59	6.96	12.2	-5.18	7.02
2		B.		.	.	12.4	t.f.	-4.61	7.79	13.1	-5.16	7.94
3		7.6 13	B.	0.50	8.10	13.1	12.9	-4.55	8.45	t.f.	.	.
4		8.3	8.4	0.10	8.60	t.	t.	.	.	t.f.	.	.
5			10.2	-0.92	9.48							
6			10.6	-0.88	9.72							
7			11.1	-1.02	10.08							
8			11.5 11.6	-1.17	10.38							
9			12.2 12.1	-1.36	10.79							
10			12.3 12.2	-1.38	10.87							
11			12.9 12.9	-1.50	11.40							
12			13.2 13.3	-1.52	11.73							
13			13.4 13.4	-1.53	11.87							
Seq for May 4	A		11.4	-1.12	10.28							
	B		11.1	-1.02	10.08							
	C	B.		.	.	t.f.	t.f.			12.1	-4.60	7.50
on extreme Edge of film.	a		12.6	-1.47	11.13							
	b		n.s.	.	.							
	c		t.f.	.	.							

Images not so good as preceding plates.

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Thursday February 10, 1916.

Scale R Mc Series 622 YELLOW

	Mc 10243		Eros 1901		Diffs. Inv.				Alt. corr. +.02 P.C.	
	sc.1	sc.2	Cu.	Magn	sc.1	sc.2			sc.2	Cu
					11.45 01					
α	B.		.	.	11.4	11.5	−.458	6.87	11.7	−.507 6.63
					13.10 00					
1	B		.	.	13.1	13.1	−.454	8.56	13.2	−.514 8.06
1a		9.4	−.034	9.06	n.s.	n.s.	.	.	n.s.	. .
2		9.5	−.039	9.11						
4		10.1	−.068	9.42						
3		10.4	−.080	9.60						
6		10.7	−.090	9.80						
5		11.3	−.109	10.21						
7		t.f.	t.f.	.	.					
8		t.f.	12.1	−.134	10.76					
		12.45 01								
9		12.4	12.5	−.143	11.02					
		12.60 00								
10		12.6	12.6	−.147	11.13					
		12.75 01								
12		12.8	12.7	−.149	11.26					
11		t.f.	t.f.	.	.					
13		f	13.5	−.152	11.98					
May 4. Comet Bk 21:133										
a		11.4		−.112	10.28					
B		t.f.		.	.	n.s.				
						11.45 01				
C	B					11.4	11.5	−.458	6.87	12.1 −.516 6.94
		12.60 00								
a		12.6	12.6	−.147	11.13	n.s.	.	.		
		13.10 00								
b		13.1	13.1	−.151	11.59					
		13.35 01								
c		13.4	13.3	−.153	11.82					

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Thursday, February 10, 1916.

Scale R — McSeries 622 YELLOW — Grid Bk 21:44

		Mc 10244	R + J Leo. Min.		q 36 +35.0			alt. corr. +.12		
					Diffr. Inv.			P.C.		
		sc.1 sc.2 sc.3			sc.2 sc.3			sc.2		
R Leo. Min.	a	B	.		.			9.8	.	
	b	B.	.		10.4 10.4	.	.	10.7	.	
	c	B.	.		. .	.	.	10.7	.	
	d	B.	.		t.p. 11.5	-.458	6.92	12.2	-.518	7.02
	f'	B. 1	.		11.7 12.1	-.460	7.30	12.1	-.516	6.94
	e	B.	.		11.8 11.8?	-.460	7.20	12.1	-.516	6.94
	f	B ~~12.2~~	.		12.2 .	-.461	7.59	12.2	-.518	7.02
	g	6.7 6.4 B.	0.93	7.63	12.4 12.6	-.460	7.90	12.8	-.520	7.60
	h	7.7 7.4 B.	0.46	8.16	13.1 13.2	.	.	13.1	-.516	7.94
	k	8.2 8.9 8.2	0.21	8.41	t.p. 13.3	.	.	def?	.	.
(3 Sec Min) 3	l	9.0 8.1 9.2	-.019	8.91	m.s. m.s.	.	.	m.s.	.	.
	m	8.9 8.6 9.2	-.015	8.90						
	m'	10.2	-.072	9.48						
	n	10.1	-.067	9.43						
	p	10.5	-.083	9.67						
	o	10.6 10.7	-.089	9.76						
	o'	10.9 10.8	-.094	9.91						
	q	11.5 11.7	-.119	10.41						
	r	12.3 12.2	-.138	10.87						
	r'	11.9 12.1	-.131	10.69						
	s		-.147	11.13						
	s'	13.3 13.2	-.152	11.73						
	t	13.3 13.3	-.153	11.77						
	y	t.p. t.p.	.	.						
Var.		B			11.7			12.1		

See also next page.

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Copied B21:152

Scale R

Mc Series 622 YELLOW

Mc 10244 1 R Leo Min. 9 36 + 350° Alt. corr. +.12

Seq. for 1 Leo. Min.	sc.1	sc.2	Cu.		Diffr. Im g sc.2	h sc.2			P.C. sc.2		
1	B.		.	.	12.55 1.0 12.5	12.6	−4.60	7.95	12.8	−5.20	7.60
2	B.		.	.	t.p.	t.p.	.	.	12.7	−5.20	7.50
(R Leo Min 1) = 3	90 8.7	9.1	−.015	8.90	n.s.	n.s.	.	.	n.s.	.	.
β		9.3	−.029	9.01							
α		9.6	−.045	9.15							
α'		10.1	−.069	9.41							
α²		10.6	−.088	9.72							
γ		11.3	−.109	10.21							
δ		11.4	−.112	10.28							
a		11.5	−.115	10.35							
ε		12.1	−.134	10.76							
d'		t.p. 11.7	−.121	10.49							
b	12.15 1.0	12.1 12.2	−.137	10.78							
d	12.40 0.0	12.4 12.4	−.141	10.99							
c	12.40 0.0	12.4 12.4	−.141	10.99							
e		t.p. 13.7	−.152	11.88							
f	13.50 0.0	13.5 13.5	−.153	11.97							
g		t 13.6	.	.							
d²	13.60 1.1	13.7 13.5	.	.							
h		t.p. t.p.	.	.							
Var		11.9	−.129	10.61							

Seq not in centre of fld.

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Thursday February 10, 1916.

Scale R2 . Mc Series 622 YELLOW copied Bk 21: 135

Mc 10245 Eros 1901 9 +0 -5.0° alt. corr. 00

		sc.1	sc.2	Cu.	Magn	sc.2 Diffr. Im. q h	Cu	Magn	P.C. sc.2	Cu.	Magn
May 15	1	B.		.	.	1240 00 124 124	-4.61	7.79	128.7	-5.20	7.50
May 17 A =	2	7.4 7.1	B.	0.60	8.00	t/r. 13.2	-4.54	8.66	13.1	-5.16	7.94
	3	9.2 8.9	9.2 9.20 00	-0.24	8.96	n.s. n.s.	.	.	n.s.	.	.
May 15 D =	4		9.3	-0.28	9.02						
	5		10.3	-0.76	9.54						
	6		11.1	-1.02	10.08						
	7		11.3	-1.09	10.21						
	8		11.4	-1.12	10.28						
	9		11.5? t/r.	-1.15	10.35?						
	10		12.6 12.4 (1250 11)	-1.47	11.03						
	11		13.1 13.2 (13.15 ± 0)	-1.52	11.63						
	12		t. 13.9	.	.						
	A		11.5 11.4 (1145 ± 0)								
	B		11.5 11.4 (1145 ± 0)	-1.13	10.32						
	C		t/r. 12.4?	-1.13 -1.41	10.32 10.99?						
	~~A~~			-1.14							
	a		t/r.	.							
	b		13.2	-1.52	11.68						

copied Bk 21: 136

May 17 = May 17.2	A	see above.			
	B	t/r.	.	.	
	C	11.8	-1.25	10.55	
	D	10.8	-.94	9.86	
	a	13.1	-1.51	11.59	
	b	13.1	-1.51	11.59	
	c	13.1	-1.51	11.59	
	d	13.4	-1.53	11.87	

see over.

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Thursday February 10, 1916

Scale R Mc 622. YELLOW Copied Bk 21:134

MC 10245 Eros 1901 cont. 9 40-50 Alt. corr. .00

May 14		sc.1	sc.2	Cw.		Diff. Inv. g sc.2 h sc.2	D.C. sc.2
	A	10.8		-0.94	9.86	n.s.	n.s.
	B	11.4		-1.12	10.28		
	D	11.21		-1.07	10.13		
	E	12.1		-1.34	10.76		
	a	13.4		-1.53	11.87		
	b	t.p.		.	.		
	d	13.4		-1.53	11.87		

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Monday March 6. 1916.

Sheet No 278

Scale R

10:to.

Mc Series 630. YELLOW

		Mc 10373 sc 1	Mc 10373 sc 2	Mc 10378 sc 1	Mc 10378 sc 2	P.C. sc.	P.C. Mc 10378 sc 2	Diff.
Off plate	1	.				.	.	
Off plate.	2	.				.	.	
	3					10.60 0 0 10.6	10.6	
Off film.	4	.				D.	.	.
	5	4.4 4.1 5.8		4.4 4.1		4.40 0 0	11.6 11.7 11.65 1 0	-.522
	6	5.5 6.6		6.64 7.1		6.10 3 3	12.6 12.65 2 3	-.567
	7	6.3 7.5		6.8 7.9		6.85 2 3	12.8 13.05 2 3	-.559
	8	7.21 B. 8.7	8.80 1 1	7.6 t.p. 9.3		7.70 2 2	13.3 ?	-.327
	9	8.4 8.9		9.0 9.1	9.20 1 2	9.00 2 0	20 0.26 f.	n.s.
	10	9.3		10.1		9.70 4 4	-.082	
	11	10.3		10.9		10.60 3 3	-.124	
	12	10.6		11.2	12.15 1 0	10.90 3 3	-.132	
	13	11.4 11.70 0 0		12.1 12.2	12.10 0 0	11.78	38 37 -.170	
	14	11.7 11.7 12.55 1 0		12.1 12.1	12.65 0 1	11.90 2 0	20 -.166	
	15	12.5 12.6 12.80 1 1		12.6 12.7	13.10 0 0	12.60 0 5	05 -.196	
	16	12.7 12.9 12.80 0 0		13.1 13.1	13.10 0 0	12.95 1 5	15 -.201	
	17	12.8 12.8 13.40 0 0		13.1 13.1		12.95 1 5	15 -.191	
	18	13.4 13.4		t.p. ?		13.40 a .	-.184	
	19	f. f.		f. n.s.		,	,	
	20	n.s.		n.s.		,	,	
	23							

See following page for diffs.

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Monday March 6, 1916.

Pole

Mc Series 630. YELLOW

	Mc 10378 g sc.1	Mc 10378 g sc.2	Pole cont. Mc 10378 h sc.1	Pole cont. Mc 10378 h sc.2	Diffr. Images. mc. 10378 g sc.2	Diffr. Images. mc. 10378 h sc.2			
off plate 1	.		.		.	.			
2	.		.		.	.			
3	tf.		tf.		t.f.	t.f.			
4	.		.		.	.	x.		
5	11.3 11.35 10		11.4		11.6 11.45 21	11.3	11.40	05	05 — 4.97
6	12.1 12.15 10		12.2		12.4 12.45 01	12.5	12.30	15	15 — 5.32
7	12.6 from 12.60 00		12.6 from		t.f. 12.8?		12.70	10	10 — 5.24
8	from		from		13.4 13.40 00	13.4 from	13.40	0	— 5.37
9					n.s	n.s.			
10									

after series 12:12

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Monday, March 6, 1916-

Scale R. Mc series 630 - YELLOW Copied Bk 21:32

Mc 10374 {V Tauri / Eros 1901} + 50 + 19.5 alt. corr. +10

Seq for V Tauri		sc.1	sc.2	Curve	Magn.	Diff Inv. sc.2	Diff Inv. sc.2	Diff Inv. Curve	Diff Inv. Magn.	P.C. sc.2	P.C. Curve	P.C. Magn.
	a	B 5.4		.	.	12.10 00 12.1	12.1	-5.18	6.92	12.3	-5.48	6.82
	e	5.1		1.40	6.80	12.10 00 12.1	12.1	-5.18	6.92	12.1	-5.41	6.69
	b	5.7 5.4	B.	1.23	6.93	12.25 10 12.3	12.2	-5.47 20	7.05	12.4	-5.50	6.90
	d	88 8.5	88.5 01 8.9	-0.32	8.53	f	f	.		f.		
	e		9.5	-0.69	8.81	f	f	.				
	f		10.1	-1.00	9.10	n.s	n.s.	.				
	g		10.8	-1.33	9.47							
	h		10.6	-1.25	9.35							
	k		12.10 00 12.1 12.1	-1.79	10.31							
	l		12.20 00 12.2 12.2	-1.81	10.39							
	n		12.70 L1 12.6 12.8	-1.90	10.80							
	m		12.05 L2 11.9 12.2	-1.78	10.27							
	o		13.50 00 f. f.	.	.							
	p		13.5 13.5	-1.82	11.68							
	q		14.00 00 f. f.	.	.							
	r		14.0 14.0	.	.							
	s		f f.									
Inv hazy Var.			13.7? Nov									

Eros 1901 Feb. 20 Copied Bk 21:110

	A		11.00 L1 10.9	11.1	-1.42	9.58						
	B		11.48 01 11.4	11.5	-1.59	9.86						
	C		12.20 00 12.2	12.2	-1.81	10.39						
	D	9.1 8.8	9.5 L0 9.2		-0.50	8.65	f	f			n.s.	
	a		12.10 L0 12.1	12.2	-1.80	10.35						
	b		11.20 00 11.2	11.2	-1.50	9.70						

(over)

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Monday March 6, 1916.

Scale R Mc series 630 YELLOW

Mc 10374 Eros 1901 cont. + 50 +175 alt. corr. +.10

		sc 1	sc 2	sc 2	Curve	Magn.
feb. 20 cont.	C		13.15 ±.10 13.1	13.2	-1.90	11.25
	c		134 from	+/-	-1.85	11.55
	c'		?	?	.	.
	α		n.s.		.	.
	β		n.s.		.	.
						Copied Bk 21:111
feb. 21	a		10.65 ±.2 10.5	10.8 from	-1.27	9.38
	B		11.60 .00 11.6	11.6	-1.64	9.96
	C	8.6 8.3	8.55 .04 8.5		-0.18	8.37
	D	9.2 8.9	9.10 .1 9.0		-0.48	8.62
	E		9.15 .01 9.2	9.1	-0.50	8.65
	a		11.85 .10 11.9	11.8	-1.71	10.14
	b		12.10 .00 12.1	12.1	-1.79	10.31
	m		13.20 .00 13.2 from	13.2	-1.89	11.31
	α		13.5	+/-	-1.82	11.68
	β		n.s.	?	.	
						Copied Bk 21:112
feb. 22, 1901. (dk. { leg on edge.	a	8.2 7.9	8.15 .01 8.1 }		+0.02	8.17
		8.7	11.5 }		-1.61	9.89
	B	+/-	.		.	.
	C		12.20 .00 12.2	12.3	-1.81	10.39
	D		+/-	.	.	.
	a		11.35 .01 11.4	11.3	-1.56	9.79
	b		+/-	.	.	
	d		+/-	.	.	
	g		+/-	.	.	
	h		+/-	.	.	

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1916phae_proj_10739

Monday March 6, 1916.

Scale R Mc Series 630 YELLOW

Mc 10274 cont. Eros 1901. 4 50 +1 f.5-

Seq. for Feb. 22 cont.		sc.2	sc.2	Curve	Magn.
	f	t.f.	.	.	.
	θ	t.f.	.	.	.
	χ	12.2 (12.30 ±1)	12.4	7.83	10.47
	ℓ	.	.	.	.

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Monday March 6, 1916.

Scale R

Mc Series 630 YELLOW

Mc 10376 Dm 6 10 + 12.5 alt. corr. +.09

	sc.1	sc.2	sc.2	Curve	Magn.	Diffr Dm. 9h sc.2	sc.2	Curve	Magn.	P.C. sc.2	Curve	Magn.
1	4.9 (5.2)	B		1.50	6.70	all				11.6	-5.24	6.36
2	6.0 (6.3)	B		0.92	7.22	65				12.6	-5.55	7.05
3	7.9	8.1	8.15 0!	+0.02	8.17	poor.				t.p.		
4	8.2	8.4	8.45 10	-0.11	8.34							
5	9.6	9.5	9.55 0!	-0.70	8.85							
6	10.4	10.4	10.40 0?	-1.16	9.24							
7	10.8	poor 10.9	10.85 0!	-1.35	9.50							
8	11.3	t.p.		-1.54	9.76							
9	t.p.	t.p.										
10												
11												
12												

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Monday, March 6, 1916.

Scale R Inc Series 630 YELLOW copied Bk 21:119

Ma 10377. Eros 1901 6 20 + 10.0 Alt. corr. +.08

		sc.1	sc.2	Curve	magn.	Diffr. Im. g sc.2	h sc.2	Curve	magn.	sc.2	Curve	magn.
α		B	~~11.3~~	.	.	11.1	11.1	-4.90e	6.20e	11.3	-5.12e	6.18e
β	6.5	B.		0.68	7.48	t.p.	t.p.	.	.	t.p.	.	.
γ	7.3	B		0.30	7.90	t.p.	12.7	-5.30	7.40	12.8	-5.61	7.18
1		9.5	9.6	-0.70	8.85	n.s	n.s.			n.s.		
2		9.6	9.4	-0.68	8.82							
2.a		10.2	10.2	-1.05	9.15							
2.b		10.3	10.3	-1.11	9.19							
3		10.7	10.8	-1.30	9.45							
3a		11.2	11.3	-1.51	9.74							
4		t.p.	t.p.	.	.							
5		12.3	12.2	-1.82	10.43							
6		t.p.	t.p.	.	.							
7		13.7	13.7	.	.							
8		t.										
9		n.s.										
Mar. 16. α		10.9		-1.39	9.51							
B	7.1	10.5	10.4	-1.18	9.27							
C	6.8		B	+0.52	7.62	t.p.	12.4	-5.24	7.16	12.7	-5.59	7.11
D		11.2	11.2	-1.50	9.70							
E		10.3	10.3	-1.10	9.20							
a		13.1	13.2	-1.90	11.25							
b		12.5	12.3	-1.85	10.55							
c	~~6.8~~	12.7	12.9	-1.90	10.90							
d		11.8	11.9	-1.71	10.14							
ε		t	t.	.	.							
ζ		t.p.	t.p.	.	.							

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Tuesday March 7, 1916.

Sheet No 279 80

Scale R — Mc Series 630 YELLOW

10 — Mc 10378 Pole. Mc 10384 OC.

		sc.1	sc.1	sc.1	sc.2	sc.2		sc.2	sc.2		Diff.
ff plate	1	.		.				.	.		
"	2	.		.				.	.		
edge	3	t.f.						10.4	10.6	10.50	1 1
ff plate	4	.		.				.	.		
	5	4.4 4.1		4.4 4.1			4.40	0 0	2.03 11.8	11.8	11.80 0 0 -5.37
	6	6.2 5.9		6.3 6.0			6.25	0 1	0.73 13.1	12.6	12.85 3 2 -5.87
	7	6.9 6.8 6 7.7 7.4		7.4 7.1 7.7			7.15	3 2	0.31 13.3	13.1	13.20 1 1 -5.74
	8	~~8.8~~ W.S. B.		7.4 B.			7.70	0 0	0.33 Scratched,	13.6	13.60 . a -5.57
	9	9.3		9.2 9.1 5 0 1 8.9 9.1			9.22	08 07	-0.48 n.c	t.	, .
	10	9.1		9.9			9.80	1 1	-0.92		
	11	10.6		10.1			10.65	0 1	-1.29		
	12	11.1 12.05 1 0		11.3			11.20	1 1	-1.62		
	13	12.1 12.0 11.95 1 2		12.1 12.20 0 0			12.08	03 02	-2.00		
	14	12.1 11.8 12.60 0 0		12.2 12.2 12.70 2 2			12.08	13 12	-1.84		
	15	12.6 12.6 12.95 2 1		12.9 12.5 12.95			12.65	05 05	-2.01		
	16	12.8 13.1 12.95 2 1		13.1 12.8 13.30 1 1			12.95	00 00	-2.01		
	17	12.8 13.1 13.65 1 0		13.4 13.2 13.50 0 0			13.12	17 18	-2.08		
	18	13.1 v.h. 13.6?		13.5 13.5			13.58	07 08	-2.02		
	19	t. .		t. t.			.		.		
	20										

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Tuesday March 1. 1916.

Scale R Mc Series 630. YELLOW

		Mc 10378 Pole. g sc2	h sc2	10384 g sc2	h sc2	Diffr. Images.	Diff
Off pl.	1	.		.	.		
	2	.					
	3	t.p.	t.p. (extreme edge)	.	.		
"	4	.					
	5	11.45 01 11.4	11.5	11.30 1 11.2	11.4	11.38 07 08	-4.95
	6	12.55 10 12.5	12.6	12.65 10 12.7	12.6	12.60 05 05	-5.62
	7	13.10 00 13.1	13.1	13.30 00 13.3	13.3	13.20 10 10	-5.74
	8	13.45 01 13.4	13.5	13.45 01 13.4	13.5	1345 00 00	-5.42
	9	f.	f.	f.	f.	,	,
	10						

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Tuesday March 7, 1916.

Scale R — Mc Series 630. YELLOW — copied Blk 21:119

MC 10379 — Eros 1901 } R Monoc } — 6 30 + 7 5. — Alt. corr. +.07

Mar. 16. Seq near edge.		Sc. 1	Sc 2	Curve	Magn.	Diffr. Inv. g h	Curve	Magn.	P.C. Sc. 2	Curve	Magn.
	A	t.p.									
	B	t.p.									
	C	t.p.				t.p. t.p.			126	-5.68	6.92
	D	t.p.									
	E	t.p.									
"Ident uncertain"	a	t.p.									
" "	b	t.p.									
	c	t.p.									
	d	t.p.									
R Monoc.	Var.	t.p. w.s.									
	α	B.				12.1? 12.1? 12.10?? from	-5.40	6.70	12.1	-5.54	6.56
	a	7.0 7.3 B.		0.46	7.76	t.p. t.p.			12.8	-5.72	7.08
	b	def?		.	.	f f			f.		
	c	9.3		-0.62	8.68						
	c'	10.2		-1.14	9.06						
	c^2	10.2		-1.14	9.06						
	d	10.9 10.7	10.70??	-1.40	9.30						
	d'	10.7 10.7	10.70??	-1.40	9.30						
	e	11.1 11.1	11.10??	-1.57	9.53						
	f	11.1 11.1	11.10??	-1.57	9.53						
	g	11.4 11.4	11.40??	-1.70	9.70						
	g'	t.p. 12.1		-1.90	10.20						
	h	t.p. w.s. 12.1		-1.90	10.20						
	h'	12.1 12.1	12.10??	-1.90	10.20						
	k	12.1 t.p.		-1.90	10.20						
	l'	t.p. 12.7	12.70?? from 2nf	-2.00	10.70						

All magnitudes are visual — not combined scale.

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Tuesday, March 7, 1916.

Scale R Mc Series 630. YELLOW

	Mc 10380		Iris 1904		6 30 +17.5		Abb. corr. +.10	
					Diffr. Imm.		P.C.	
	pc.1	pc.2	Curve	Magn.	pc.2	Curve Magn.	pc.2	Curve Magn.
1	t.f.				12.4? t.f.	-5.52 6.88	13.1?	-5.74 7.36
2	10.2		-1.15	9.05	n.s.	n.s.	~~t0~~	
3	t.f.		.					
4	10.3		-1.20	9.10				
5	t.f.	.	.					
6	t.f.	.	.					
6a	t.f.	.	.					
7	t.f.	.	.					
8	12.2	12.35 12.5	-1.95	10.40				
9	12.4	t.f.	-1.95	10.45				
10	13.1	t.f.	-2.01	11.09				
11	13.0	13.05 13.1	-2.01	11.04				
12	t.f.	t.f.						

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1916phae.proj.10730

Tuesday, March 7, 1916.

Scale R. Mc Series 630 YELLOW Chief Bk 21: 120

MC 10381 Eros 1901 Mar. 23. 6 50 +7.5 Alt. corr. +.07

	sc.1	sc.2	Curve	Magn.	Diff'l Inv. sc.2	sc.2	Curve	Magn.	P.C. sc.2	Curve	Magn.
1	7.0	7.3	0.46	~~6.84~~ 7.76	12.4	tf.	-5.52	6.88	12.6	-5.68	6.92
2	7.2	7.5 B.	0.36	7.86	12.7	tf.	-5.59	7.11	12.7	-5.70	7.00
3	8.8	9.1 9.1 9.10 °°	-0.50	8.60	tf.	tf.					
4	10.3		-1.20	9.10	n.s.	n.s.					
a	10.7		-1.40	9.30							
D	tf.		.	.							
E	11.1	11.10 °° 11.1?	-1.56	9.54							
B	11.3	?11.30 °° 11.3	-1.65	9.65							
C	11.4	11.40 °° 11.4	-1.70	9.70							
c'	tf.	12.1	-1.90	10.20							
f	tf.	12.1?	-1.90	10.20							
519 a	12.6	12.65 °' 12.7	-1.99	10.66							
e	13.1	from 13.35 °° 13.3	-2.01	11.09							
	13.4		-2.03	11.32							
δ	12.7	from tf.	-2.00	10.70							
517.	tf.	tf.									

M Harwood sequence.

524	tf.	
525	tf.	
526	tf.	

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Tuesday March 7, 1916.

Scale R — Mc Series 630 YELLOW — Copied Bk 21: 121

		Mc 10382			Eros 1901		1° + 5° Alt. corr. +.06					
							Diffr. Im.			P.C.		
		sc.1	sc.2	sc.3	Curve	Magn.	sc.3	Curve	Magn.	sc.2	Curve	Magn.
Ref Lag.	d	B.			.		t.p.	11.1	-4.68 2	6.42 2	11.3	. .
	1	6.6	6.9	B.	0.65	7.55	12.1 (12.70 00) 12.1		-5.59	7.11	12.9	-5.73 7.17
	1a	8.1	9.0	9.05 01 9.1	-0.45	8.60	t.p.	t.p.			1	
	2		10.1		-1.10	9.00						
	2a		t.p.	11.3	-1.65	9.65						
	3		t.p.	t.p.	.	.						
	4		t.p.	t.p.	.	.						
	5		12.2	12.20 00 12.2	-1.94	10.26						
	6		13.3	13.25 10 13.2	-2.02	11.23						
	7		t.p.	t.p.	.							
	8		f	f								
	9		f.	f.								
							Copied Bk 21: 121					
Mar. 28	A		10.5		-1.30	9.20						
	B		10.1		-1.40	9.30						
	C		10.2	10.25 01 10.3?	-1.17	9.08						
	D		10.3	10.25 10 10.2	-1.17	9.08						
	E		11.1	11.10 00 11.1	-1.57	9.53						
	F		10.1	10.10 00 10.1	-1.10	9.00						
	H	7.4	7.7	B.	+0.27	7.97	t.p.	t.p.			13.3	-5.75 7.55
	a		t.p.	.							.	
	b		t.p.	.							.	
	c		t.p.	.								
	d		t.p.	.								
	f		t.p.	.								

(over)

Very difficult to compare star image with scale. Poor, hazy.

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Tuesday March 7, 1916.

Scale R. Mc Series 630. YELLOW Copied Blg 21: 122

Mc 10382 Eros 1901 cont. 7 +50° alt. corr. +.06

			sc 1	sc 2	sc 3	Curve Magn.	g	h	Pc. sc 2	Curve Magn.
Mar 29		A	B.				+.f.	+.f.	11.1	-1.56
film def.		c	.						.	
		D	11.1	11.15 ±0 11.2		-1.59	9.56		.	
		F	10.1	10.10 ±0 10.1		-1.10	9.00		.	
		E	+.f.	.		.				
		a	+.f.	.		.				
		b	+.f.	.		.				
		c	12.6	12.60 ±0 12.6		-1.98	10.62			
film def		d	.	.						
		f	+.f.	.						

Diffr. Images very hazy.

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Friday 10
Thursday March 8, 1916.

Sheet no. 281

Scale R Mc Series 631. YELLOW

	~~13.54~~	Mc 10388		Pole				PC.	
10:39				mc 10393.					
		pc.1	pc.2	sc 1	sc 2			pc 2	pc 2
ff fil.	1	.						.	.
"	2	.						.	.
	3							10.20 2/2 10.0	10.4
	4	3.8					Diff	.	
	5	3.8 5		3.6 3.3		3.70	1	2.73	11.15 3/2 11.5 12.0 -.532
	6	5.7 5.4		5.5 5.2		5.60	1	1.38	12.55 2/1 12.4 12.7 -.557
	7	6.2 5.9		6.7 6.4		6.85	2	3 1.01	13.20 1/1 13.3 13.1 -.574
	8	7.1 6.8 B.		7.1 6.8 B.		7.10	0	0 0.93	† ✱13.9? -.587
	9	8.6 8.3 9.1	8.50 ±1 .84 9.10 0 0	8.4 8.1 9.2	8.55 2/1 8.7 9.15 2/1	8.52	2	03 0.22	m.s.
	10	8.8	9.1	8.9	9.1	9.12	02	03 -.027	
	11		10.4		10.2	10.30	1	1 -.094	
	12		10.6		10.7	10.65	0	1 -.107	
	13		11.7 11.80 0 0		11.4 12.05 1 0	11.55	1	2 -.857 14	
	14		11.8 11.8 12.60 0 0		12.1 12.0	11.92	12	13 -.168	
	15		12.6 12.6 12.90 2 2/2		t.p. t.p.	12.60	0	1 -.196	
	16		13.1 12.7 13.00 1 1/2		t.p. 12.6?	12.75	15	15 -.181	
	17		13.1 12.9 13.45 0 1		12.7? t.p. 13.75 1 0	12.85	15	15 -.181	
	18		13.4 13.5		13.1 13.8?	13.60	15	15 -.204	
	19		† †		† †				
	20		m.s.		m.s.				

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Friday ~~Thursday~~ March 10, 1916.

Scale R

Mc Series 631. YELLOW

	Mc 10388 g sc.2	Mc 10388 h sc.2	Pole cont Mc 10393 g sc.2	Pole cont Mc 10393 h sc.2		
Off plate	1 .	.	.	.		
"	2 .	.	.	.		
edge	3 t.p.	t.p.	t.p.	t.p.		
" "	4 .	.	.	.		
	5 11.10 00 11.1	11.1	11.10 00 11.1	11.1	11.10 00 00	- 4.67
	6 12.35 10 12.3	12.4	12.40 00 12.4	12.4	12.38 03 02	- 5.40
	7 t.p.	13.1	t.p.	t.p.	13.10 a .	- 5.64
	8 13.50 00 13.5	13.5	13.60 00 13.6	13.6	13.55 05 05	- 5.52
	9 n.s.	n.s.	n.s.	n.s.	.	

Albert Series.
12.45

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Friday Thursday March 10, 1916.

Scale R — Mc Series 631 - YELLOW — Copied Bk 21: 114

		Mc 10389			Eros 1901		5 10 + 1 7 5 Att. corr. +.10				
							Diffr. Inm.				D.C.
Ref Seq.		sc.1	sc.2	sc.3	Curve	Magn.	n.s.	n.s.	Curve	Magn.	sc.2 Curve Magn.
	A	5.1	5.4	B	1.59	6.99	12.4	12.40 12.4	-5.37	7.03	12.4 -5.52 6.88
	B	7.8	8.1	8.1 8.10	0.21	8.31					7.
	1		9.9		-0.72	9.18					
	2		10.7		-1.10	9.60					
	5		10.5		-1.01	9.49					
	3		11.3	11.30 11.3	-1.35	9.95					
	4		11.9	12.00 ±1 12.1	-1.63	10.37					
	6		12.3	12.35 ±0 12.4	-1.74	10.61					
	7		13.1	13.10 13.1	-1.90	11.20					
	9		12.5	12.55 ±0 12.6	-1.79	10.76					
	10		t.p.	t.p.							
	8		7.	7							
	11			n.s.							
							Copied Bk 21:114				
Feb. 25	A	8.4	8.7	8.75 ±0 8.8	-0.10	8.65	n.s.				n.s.
	B		10.4	10.35 ±1 10.3	-0.95	9.40					
	C		10.5	10.50 10.5	-1.01	9.49					
	D	7.5	7.8	B.	+0.39	8.19	n.s.				n.s.
	a		10.8	10.75 ±1 10.7	-1.12	9.63					
	f		12.2	12.20 12.2	-1.70	10.50					
	c		12.9	12.95 ±0 13.0	-1.87	11.08					
	d		13.3	13.35 ±0 13.4	-1.94	11.41					
	e		13.3	13.40 ±1 13.5	-1.94	11.46					
	f		13.9	13.80 ±1 13.7	-2.00	11.80					
	x		11.7	11.90 ±2 12.1	-1.60	10.30					
	β		12.9	12.90 12.9	-1.86	11.04					

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Friday
~~Thursday~~ March 10. 1916.

Scale R. mc Series 631. YELLOW Copied Bk 21: 113

mc 10389 Cont Eros 1901 5 10 +17.5. Alt. corr. +.10

					Diffs. Inm.		PC.
Feb. 23 Seq.		sec.1	sec.2	sec.3	Curve	Magn.	g h	sec.3
	A	9.6	9.70 ±1	9.8	-0.61	9.09	n.s.	
	B	10.4	10.40 00	10.4	-0.98	9.42		
	C	11.4	11.70 00	11.7	-1.52	10.18		
close dbl.	D	8.0	8.3 8.2 12.4	8.25 10	+0.15	8.40	n.s.	
	a	t.p.	t.p.		.	.		
	b	13.3	13.30 00	13.3	-1.93	11.37		
	d	13.4	13.35 01	13.3	-1.94	11.41		
M. Harwood Seq. 147-151		n.s.	n.s.				Copied Bk 21.	
Feb. 22	A	7.5	7.8	B.	0.39	8.19	? ?	n.s.
	B	8.3	8.6 8.3	8.45 21	0.04	8.49		
	C	12.2	12.25 01	12.3	-1.70	10.55		
	D	9.4	9.50 ±1	9.6	-0.50	9.00		
	g	12.4	12.35 01	12.3	-1.75	10.60		
	a	11.1	11.15 ±0	11.2	-1.30	9.85		
	h	12.9	12.95 ±0	13.0	-1.87	11.08		
	d	13.1	13.10 00	13.1	-1.93	11.20		
	e	?	13.7?		-1.99	11.71?		
	f	13.5?	poor		-1.96	11.54?		

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Friday
Thursday March 10 1916.

Copied B 21:168

Scale R

Mc Series 631. YELLOW

Mc 10390 | B Z Tauri | 5 45 + 15°. Alt. corr. +.10

	sc.1	sc.2		Curve	Magn.	Diffr. Im. g	Diffr. Im. h	P.C. sc.2
a	6.4	6.7	B	0.90	7.60	‡	‡	‡.
b	7.6	7.9	B	0.33	8.23	n.s.	n.s.	‡.
a'	8.6	8.9	9.1 9.00 ±1	-0.23	8.77			
c = b'	8.4	8.7	8.8 8.75 ±0	-0.10	8.65			
d		9.9	9.95 ±0 100	-0.75	9.20			
c'		10.3	10.20 ±1 10.1	-0.87	9.33			
f		10.3	10.35 ±0 10.4	-0.95	9.40			
g		9.9	10.00 ±1 10.1	-0.76	9.24			
h		10.4	10.40 ±0 10.4	-0.97	9.43			
l (dubl. ff. comp. too faint)		10.7	10.80 ±1 10.9	-1.15	9.65			
d'		11.9	11.75 ±0 11.8	-1.54	10.21			
d²		12.1	12.10 ±0 12.1	-1.67	10.43			
e'		12.4	12.35 ±1 12.3	-1.74	10.61			
k		12.7	12.55 ±2 12.4	-1.79	10.76			
f'		12.1	12.20 ±1 12.3	-1.70	10.50			
l		13.1	? 13.20 ±1 13.3 poor	-1.91	11.29			
g'		‡.	‡	.	.			
m		13.4	13.35 ±1 * 13.3	-1.94	11.41			
m		‡p.	.					
k'		‡.	.					
h		13.4'	.	-1.94	11.46?			
q		‡.	.					
l'		.	.					
Var.		n.s.						

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Friday
~~Thursday~~ March 10, 1916.

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Scale R. Mc Lewis 631 - YELLOW

Mc 10391 — N Tauri — 5 40 + 20° Alt. corr. +.10

					Diffr. Imm.			P.C.	
Ref. for Var.	sc 1	sc 2	sc 3	Curve	Magn.	g h	Curve	Magn.	sc 2	Curve Magn.
a	6.6	6.9		0.81	7.71	‡ ‡13.6	-5.61	7.99	‡.	
β	8.2	8.5	8.3 8.40 ±	0.06	8.46					
a	8.9	9.2	9.2 9.20 °°	-0.34	8.86					
a²		9.4	9.40 9.4 °°	-0.45	8.95					
b		10.6	10.60 10.6 °°	-1.06	9.54					
b'		11.3	11.20 ± 11.1	-1.31	9.89					
c		t.p.	t.p.	.	.					
a'		12.1	12.10 °° 12.1 for	-1.70	10.40					
d		11.8	11.65 ± 11.5 ? t.p.	-1.50	10.15					
e		12.4	12.40 °° 12.4	-1.75	10.65					
f		13.8	13.10 °° 13.1	-1.90	11.20					
g		13.2	13.15 ± 13.1	-1.90	11.25					
e'		‡	‡.							
Var.		10.3		-0.92	9.38					
Ref. sep. 1	5.8	6.1		1.20	7.30	13.2	13.00 ± 12.8 -5.56 ~~13~~	7.44	13.3 -5.76	7.54
2	7.2	7.5	8.	0.51	8.01	‡	‡.		‡.	
2a	8.4	8.7	8.5 8.60 ±	-0.03	8.57					
2b	8.8	9.1	9.1 9.10 °°	-0.30	8.80					
3		10.1		-0.82	9.28					
3a		10.4		-0.97	9.43					
6		11.1	11.10 °° 11.1	-1.29	9.81					
4		11.1	11.00 ± 10.9	-1.24	9.76					
5		12.6	12.60 °° 12.6	-1.80	10.80					
7		13.2	13.30 ± 13.4	-1.93	11.37					
8		13.0	13.10 ± 13.2	-1.90	11.20					
9		13.4	13.40 °° 13.4	-1.94	11.46					
10		t.p.	t.p.							

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Friday March 10, 1916.

Scale R Mc Series 631. YELLOW

Mc 10392 Dm 6 10 +12.5 (No seq. for Eros on plate)

Alt. corr. +.09

	Mc sc.1	Mc sc.2	Dm Curve	Dm Magn.	Diffs. g	Diffs. h	Diffs. Curve	Diffs. Magn.	P.C. sc.2	P.C. Curve	P.C. Magn.
1	B.		.		11.4	11.35 o.l 11.3	-4.85 ~~-1.38~~	6.50	12.1	-5.43	6.67
2	5.6	5.9	1.30	7.20	12.6	12.55 o.l 12.5	~~-5.44~~ +.49	7.11	17.1? from	-5.63	7.07
3	7.3	7.6 B.	0.48	8.08	t.f.	t.f.			+4.0?	(not certain whether this is slant or def.	
4	8.1	8.4 8.1 8.25 2.l	0.15	8.40	n.s.	n.s.			h.s.		
5		9.5	-0.50	9.00							
6		10.2 10.15 o.l 10.1	-0.85	9.30							
7		10.1 10.70 o.l 10.1	-1.10	9.60							
8		11.3 11.30 o.l 11.3	-1.35	9.95							
9		12.1 12.10 o.l 12.1	-1.67	10.43							
10		t.f. 12.1	-1.67	10.43							
11		t.f. 13.1 from	-1.90	11.20							
12		13.3 13.35 l.o 13.4	-1.93	11.40							

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Plotted on sheet 283

Scale R

Mc Series 631. YELLOW

9.24 Mc 10393 Dole.

		Mc 10399.							
		pc.1	pc.2	pc.3	pc.1	pc.2	pc.3	mean	Diff.
Off plate	1	.			B			.	
"	2	.			.			.	
	3				B			.	
"	4	.			B			.	
	5	3.1	3.4		3.3	3.6		3.50 ± 1	2.93
	6	5.4	5.7		5.1	5.4		5.55 2	1.43
	7	6.1	6.4		5.4.5	5.8		6.10 3	1.36
	8	6.9	7.2		7.0	7.3		7.25 0 1	0.78
	9	8.1	8.4	8.5 8.45 ± 1	8.2	8.5 8.2		8.35 1	
	10	8.7	9.0	9.2 9.10 ± 1	8.4	8.7 8.8		8.75 ± 0	
	11		10.2			9.8			
	12		10.4			10.2			
	13		11.5			10.9			
	14		11.9	12.00 ± 1 12.1		11.1	11.15 ± 0 11.2		
	15		12.5	12.40 ± 1 12.3		12.1	12.00 ± 1 11.9		
	16		t.p.	t.p.		12.2	12.15 ± 0 12.1		
	17		12.8	? from 12.7 12.75 ± 1		t.p.	? n.p.		
	18		13.4	13.45 n.p. 13.5		13.1	13.10 ± 0 13.1		
	19		t	n.s.		13.4	13.40 ± 0 13.4		
	20		n.s.			t	t.		

		Pc.	Dc. 10399	Diff.
		pc.2	pc.2	Mean
Off plate	1	.	9.2	-4.76
"	2	.	.	.
	3	.	10.4 10.30 ± 10.2	-4.68
"	4	.	10.4.5	-4.64
	5	11.5	11.40 ± 11.3	-4.97
	6	12.6	12.40 2 12.2	-5.42
	7	12.9	12.85 ± 0 12.8	-5.39
	8	t.	13.5	-5.47
	9		n.s.	
	10		8.92 18 17	-0.04
	11		10.00 2	-0.64
	12		10.30 ± 1	-0.72
	13		11.20 3	-1.12
	14		11.58 42 43	-1.34
	15		12.20 20 22	-1.56
	16		12.15 . a	-1.21
	17		12.75 a .	-1.71
	18		13.28 17 18	-1.72
	19		13.40 . a	-1.46
	20		.	

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Tuesday March 14. 1916 –

Scale R

Mc. Series 631. YELLOW

	Mc 10393 g sec.²	Mc 10393 h sec.²	Pole. Mc 10399 g sec.²	Pole. Mc 10399 h sec.²	Diffr. Images. Mean	Diff.
Off fil. 1	~~h~~	Offfil.	t.f.	t.f.	.	
2	.	.	.	.	.	
(Edge) 3	t.f.	t.f.	t.f.	t.f.	.	
4	.	.	t.f.	10.3?	10.3? . a	−4.44
5	11.1 11.10 ±0	11.1	10.6 10.75 ±1	10.9	10.92 18 17	−4.49
6	12.3 12.40 ±1	12.5	11.7 11.60 ±01	11.6 11.7	12.00 40 40	−5.02
Edge 7	t.f.	t.f.	12.3 12.30 ±0	12.3	12.30 . a	−4.84
8	f	13.5	t.f.	13.5	13.50 ±0	−5.47
9			n.s.	n.s.		

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Tuesday March 14, 1916.

Scale R Mc Series 631. YELLOW Copied 21: 119

		Mc 10394	Eros 1901.		b 20 +100 Alt. corr. +.08				
					Diffr. Im.			PC.	
Ref Seq.		pc.1 pc.2	Curve	Magn.	g h	Curve	Magn.	pc.2	Curve Magn.
	α	B.	.		10.1 10.15±0 10.2	-4.34	5.81	10.9	-4.84 6.06
	β	5.2 5.5	1.65	7.15	12.4 12.45±1 12.5	-5.10	7.35	12.5	-5.36 7.14
	γ	5.9 6.2 B.	1.30	7.50	t.f. t.f.			13.4	-5.44 7.96
	1	7.6 7.9 8.0	7.95±0	0.42	8.37			f.	
	2	8.2 8.5 8.8 8.6	8.55±0	0.12	8.67				
	2a	8.9 9.2 9.1	9.15±1	-0.18	8.97				
	2b	9.6		-0.41	9.19				
	3	10.1 10.15±0 10.2		-0.69	9.46				
	3a	10.5 10.60±1 10.7		-0.89	9.71				
	4	11.3 11.40±1 11.5		-1.19	10.21				
	6	t.f. 12.6?		-1.51	11.09?				
	5	12.3 12.20±1 12.1		-1.41	10.79				
	7	13.5 13.40±1 13.3		-1.60	11.80				
Mar. 16.	A	9.8 9.80±0 9.8		-0.50	9.30				
	B	8.6 8.9 9.1 9.00±1		-0.09	8.91			m.s.	
	C	5.5 5.8 t.f. 13.		+1.49	7.29	t.f. 12.4	-5.10 7.30	13.1	-5.42 7.68
	D	10.3		-0.75	9.55			m.s.	
	E	8.8 9.1 9.1 9.10±0		-0.15	8.95				
	a	t.f. t.f.		.	.				
	b	13.1 13.10±0 13.1		-1.59	11.51				
	c	t.f. .		.	.				
	d	11.4 11.35±1 11.3		-7.18	10.17				
	e	m.s.		.					
	f	m.s.		.					

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1916phae.proj.10730

Tuesday March 14, 1916.

Scale R

Mc Series 631. YELLOW

Mc 10395 {Eros 1901 / R W Moore} 6 30 +7.5 alt. corr. +.07

	sc.1	sc.2	Curve	Magn.	Diffr. Im. sc.2	sc.2	Curve	Magn.	P.C. sc.2	Curve	Magn.
α	4.3	4.6	2.14	6.74	11.8	11.75 0± 11.7	-4.91	6.84	12.2	-5.28	6.92
a	5.5	5.8	1.49	7.29	12.5	12.55 ±0 12.6	-5.13	7.42	13.0	-5.42	7.58
b	7.4	7.7 B.	0.55	8.25	n.s.	n.s.			n.s.		
c	7.9	8.2 / 8.1	8.15 0±	0.32	8.47	n.s.	n.s.		n.s.		
c'	8.3	8.6 / 8.2	8.40 2±	0.20	8.60						
c²	8.8	9.1 / 9.1	9.10 00	-0.15	8.95						
d		10.0	10.00 00 10.0	-0.60	9.40						
d'		9.8	9.95 ±0 10.1	-0.58	9.37						
e		10.3	10.35 ±0 10.4	-0.78	9.57						
f		10.5	10.60 ±1 10.7	-0.89	9.71						
g		11.2	11.15 0± 11.1	-1.10	10.05						
g'		t.p.	12.1	-1.40	10.70						
h		t.p.	t.p.	.	.						
h'		12.1	from 11.8; 11.95 ±2	-1.35	10.60						
k		12.9?	vf. 12.80 ±1 12.7	-1.55	11.25						
l		12.5	12.45 ±0 12.4	-1.49	10.96						
m'		Sou.		.	.						
Var.		9.3		-0.25	9.05						
Mar. 16 – Eros	A	t.p.	10.8?	-0.98	9.82?	Copied 21:119					
leg near edge.	B	9.3?	vf. 9.35 ±0 9.4	-0.28	9.07						
	C	t.p.	.	.		t.p.	t.p.		12.5	-5.36	7.14
	D	10.2	10.25 01 10.3	-0.72	9.53						
	E	def.	.	.							
a		t.p.	.	.							
f		.									
c		.									
e		.									
b		‡									

See Mar. 22 for plate.

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1916phae.proj.10730

Tuesday March 14, 1916.

Scale R — Mc Series 631 - YELLOW — copied 21:120

Mc 10396 — Eros 1901 — 6 50 +7.5 — alt. corr. +.07

		Rc.1	Rc.2	Curve	Magn.	Diffr Ims. g	Diffr Ims. h	Curve	Magn.	P.C. Rc.2	P.C. Curve	P.C. Magn.
Mar 23.	1	5.4	5.7	1.53	7.23	12.3	12.30 00 123	-5.07	7.23	13.0	-5.42	7.58
	2	5.5	5.8	1.49	7.29	12.8	12.75 0± 12.7	-5.19	7.56	13.0	-5.42	7.58
	3	7.0	7.3 B.	0.75	8.05	f	f.			f		
	4	8.5	8.8 8.9 8.85 0!	-0.02	8.83							
	A ~~A~~	8.9	9.2! 9.1 9.15 0±	-0.18	8.97							
	D		10.2:	-0.70	9.50							
	E		10.5	-0.85	9.65							
	B		10.9 11.00 ±! 11.1	-1.05	9.95							
	C		10.7 10.80 ±! 10.9	-0.98	9.82							
	c'		11.6 11.65 0! 11.7	-1.27	10.38							
	b		12.1 12.10 00 12.1	-1.40	10.70							
	519		12.6 12.50 !± 12.4	-1.50	11.00							
	ε		13.4? 13.4000 13.4	-1.61	11.79							
	δ		f.p. 13.1	-1.59	11.51							
	511		13.5 f.p.?	-1.62	11.88							
~~Seq for Eros Mar. 23~~												
	518		f.p. -									
	525		13.2:	-1.60	11.60							
	526		f.p.									

Letters = Seq for Eros.
nos 1-4 = Ref seq.

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Tuesday March 14, 1916.

Scale R Mc Series 631. YELLOW Copied 21: 121

Mc 10397 Eros 1901 7 00 +5.0° Alt. corr. +.06

		pc 1	pc 2	Curve	Magn.	Diffr. Inv. g	h	Curve	Magn.	P.C. pc 2	Curve	Magn.
Ref. Seq.	a	3.4?	3.7?	2.65	6.35?	11.1	11.10 00 11.1	-4.71	6.39	11.2	-4.96	6.24
	1	6.3	6.6 B.	1.10	7.70	13.1	+f.	-5.28	7.82	f.		
	1a	8.2	8.5 8.1	8.60 ±1	0.10	8.70	n.s.	n.s.		n.s.		
	2	10.1	10.10 00	10.1	-0.67	9.43						
	2a	10.9	11.00 ±1	11.1	-1.05	9.95						
	3	11.1	11.10 00	11.1	-1.09	10.01						
	4	12.5	12.50 00	12.5	-1.50	11.00						
	5	12.8	f.		-1.55	11.25						
	6	f.	f									
	7	f	f.									
	8	f										
	9	f.										
	10											
Mar. 28	A	10.5	10.45 10	10.4	-0.82	9.63						
	B	10.5	10.60 ±1	10.1	-0.89	9.71						
	C	10.7	10.65 10	10.6	-0.90	9.75						
	D	10.4	10.30 ±2	10.2	-0.75	9.55						
	E	11.4	11.35 02	11.3	-1.18	10.17						
	F	10.2	10.25 01	10.3	-0.73	9.52						
	H	12 7.5 B.			+0.65	8.15	f	f.		m.s.		
	a	12.4	12.45 01	12.5	-1.49	10.96						
	b	13.2	13.15 ±1	13.1	-1.59	11.56						
	c	n.s.	n.s.									
	d	13.3	f.		-1.60	11.70						
	f	f	f.									
	g											

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Tuesday March 14, 1916 -

Scale R

Mc series 631. YELLOW

copied 21: 12 2

Mc 10397 cont. Eros 1901 H 0.0 +50° Alt. corr. +.06

		sc.1	sc.2	sc.3	Curve	Magn.	Diffr. Inn. g	h	Curve	Magn.	P.C. sc.2	Curve	Magn.
A	B.				~~-1.40~~	·	11.3	11.20 11.1	-4.74	6.46	11.4	-5.00	6.40
D		12.1	12.10 00	12.1	-1.40	10.70	n.s.	n.s.			n.s.		
E		t.p.	def?		·	·							
F.		10.2	10.15 0	10.1	-0.68	9.47							
C		11.1	from 11.10 0	11.1	-1.09	10.01							
a		t.	n.s.		·	·							
f		12.6	t.p.		-1.51	11.09							
(wrong star meas)	e	t.	from t		·								
	f.	t.p.	t.p.		·								
	d	n.s.	n.s.		·								

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Tuesday March 14. 1916.

Scale R Mc Series 631. YELLOW Copied 21:123

Mc 10398 Eros 1901 7 40 +5° Att. corr. +.06

	sc.1	sc.2	sc.3	Curve	magn.	Diff. Inv. g h	Curve	magn.	P.C. sc.2	Curve	magn.
1	B.					10.6 10.55 10.5	-4.50	6.05	11.4	-5.00	6.40
2	4.3	4.6		2.14	6.74	t.p. 11.3	-4.77	6.53	12.1	-5.25	6.85
3	7.0	7.3		0.75	8.05	t.p. negligly diff.			13.5	-5.44	8.06
4	8.8	9.1	9.0 9.05 10	-0.12	8.93	m.s.	m.s.				
5		10.1		-0.66	9.44						
6		10.4	10.40 .00 10.4	-0.80	9.60						
7		10.9	now 11.00 .11 11.1	-1.05	9.95						
8		11.1	11.10 .00 11.1	-1.09	10.01						
9		11.6	11.65 .01 11.7	-1.26	10.39						
10		t.p.	t.p.	.							
11		t.p.	t.p.	.							
12		m.s.	m.s.	.							
Apr. 8 – seq.											
(edge of pl.) A		10.5	10.50 .00 10.5	-0.85	9.65	m.s.	m.s.		m.s.		
B		10.5	10.50 .00 10.5	-0.85	9.65						
C		10.2	10.25 .01 10.3	-0.72	9.53						
D		11.4	11.50 .11 11.6	-1.22	10.28						
Inv. along a		t.p.	t.p.	.	.						
b		12.9	12.80 .11 12.7	-1.55	11.25						
c		13.1	13.10 .00 13.1	-1.59	11.51						
d		f.	f.								

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Thursday March 16, 1916.

Plotted on sheet 284

Scale R

Mc Series 639. YELLOW

9:24

		Mc 10474		Pole. Mc 10479.		Pc.			
		pc.1	pc.2	pc.1	pc.2	Mean	Diff.	pc.2	pc.2	Diff.
Off plate	1	.		.		.		.	.	
"	2	.		.		.		.		
(edge)	3	B		B		.		11.21	11.40 ±2 11.6	-5.78
"	4	.		.		.		.	.	
	5	4.8	5.1	5.2	5.5	5.30 ±2	1.13	12.6	12.75 ±1 12.9	-6.32
	6	6.4	6.7	6.2	6.5	6.60 ±1	0.38	14.0 ??	13.80 ±2 13.6	-6.82
	7	7.1	7.4 B.	6.7	7.0 B.	7.20 ±2	0.26	m.s.	13.9?	-6.44
	8	8.1	8.4 8.2	8.30 ±1	8.3	8.6 8.3	8.45 ±5	5	-0.42	
	9	9.9		10.1		10.00 ±1	-1.26			
	10	10.3		10.5		10.40 ±1	-1.52			
	11	11.3		11.4		11.35 ±0	-1.99			
	12	11.7	11.65 ±0 11.6		11.6		11.62 03 02	-2.04		
	13	12.5	12.55 ±0 12.6		12.4	12.50 ±1 12.6	12.52 03 02	-2.44		
	14	12.9	13.00 ±1 13.1		12.7	12.70 ±0 12.7	12.85 15 15	-2.61		
	15	13.5	13.50 ±0 13.5		13.3	13.30 ±0 13.3	13.40 10 10	-2.76		
	16	13.8	13.80 ±0 13.8		+		13.80 a.	-2.86		
	17	+	+		13.6?	13.65? ±0.1 13.7?	13.65? a	-2.61		
	18	m.s.		m.s.						
	19									

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1916phae.proj.10730

Thursday March 16, 1916.

Scale R Mc Series 639 YELLOW.

	Mc 10474		Pole		Diffn. Images.				
	g	h			10479				
	sec	sec			g	h	Mean		Diff.
Off pl. 1	.	.			.	.	.		
2	.	.			.	.	.		
3	th	th.			th	th.	.		
4	.	.			.	.	.		
5	12.3	12.3	12.30 00		12.6	12.5	12.42	12 13	-5.99
6	13.4	13.4	13.40 00		13.3	13.3	13.35	05 05	-6.37
7	7	14.0?			13.5	13.0?	13.75?	25 25	-6.29
8	m.s.	m.s.							
9	.	.							
10									

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1916phae.proj.10730

Thursday March 16, 1916.

Scale R Mc Series 639. YELLOW

Mc 10475 DM 6 00 + 20.0 Alt. Corr. +.10

	pc 1	pc 2	Curve	Magn.	Diffr. Dm. 9 to pc 2	pc 2	Curve	Magn.	pc 2	Curve	Magn.
α	B.		.	.	8.60 00 8.6	8.6	.	.	9.5	.	
β	6.0	6.3	0.67	6.97	13.25 01 13.2	13.3	-6.27	6.98	13.5	-6.54	6.96
γ	6.9	7.2 B.	0.20	7.40	13.50±1 13.4	13.6	-6.32	7.18	th.		
δ		9.3	-0.91	8.39	n.s.	n.s.					
2		10.3	-1.45	8.85							
1		10.4	-1.51	8.89							
1a		10.8 10.80 00 10.8	-1.70	9.10							
3		12.1 12.00 ± 11.9	-2.26	9.74							
4		12.8 12.70 ± 12.6	-2.50	10.20							
5		13.4 13.45 01 13.5	-2.72	10.73							
6		14.0 14.00 00 14.0	-2.85	11.15							

RZ Gemini. Seq. too close to Edge to revise for yellow plate

a	10.9 10.90 00 10.9	-1.75	9.15	n.s.	n.s.
b	11.3 11.20 ± 11.1	-1.90	9.30		
c	12.5 12.60 ± 12.7	-2.48	10.12		
d	13.2 13.20 00 13.2	-2.65	10.55		
e	13.6 13.50 ± 13.4	-2.73	10.77		

Seq. for RZ Gemini. near ephemis Edge of pl.

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1916phae.proj.10730

Thursday March 16, 1916.

Scale R Mc Series 639. YELLOW Card.

Mc 10476 {DM n.g.c. 2301

6 40 0.0 alt. Corr. 00

Dm seq.		sc.1	sc.2	sc.3	Curve	magn.	Diff. Inm. sc.2	Curve	magn.	P.C. sc.2	Curve	magn.
	a	5.9	6.2		0.72	6.92	tf. 13.5	-6.32	7.18	13.6?	-6.56 very poor.	7.04?
	β	5.9	6.2		0.72	6.92	tf. 13.1	-6.37	7.33	m.s.		
	2	7.1	8.0	R.	-0.21	7.79	m.s. m.s.			m.s.		
	1		9.5		-1.02	8.48						
	3		10.4		-1.50	8.90						
	3a		10.4	10.40 00 10.4	-1.50	8.90						
	4		11.8	11.80 00 11.8	-2.18	9.62						
	4a		12.4	12.40 00 12.4	-2.40	10.00						
	5		13.1	13.10 00 13.1	-2.63	10.47						
	7		13.2	13.20 00 13.2	-2.65	10.55						
	6		13.1	13.15 10 13.2	-2.65	10.50						
	8		m.s.	7.								
	9											
	10											

Copied B21:162

Seq for Cluster n.g.c. 2301										
	a	8.2	8.5 8.9	8.70 22	-0.59	8.11	m.s. m.s.			
	b	8.3	8.6 8.7	8.65 01	-0.55	8.10				
	c		9.9	9.70 22 9.5	9.9	-1.12	8.58			
	c'		10.5	10.55 10 10.6		-1.58	8.97			
	d		12.1	tf.		-2.30	9 8.80			
	d'		12.7	12.90 22 13.1	s.	-2.58	10.32			
	d²		13.2	13.25 01 13.3		-2.67	10.58			
	e		m.s.	m.s.						
	f		m.s.							
	g									
	h									

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1916phae.proj.10730

Thursday March 16, 1916.

Copied 13 21:17 2

Scale R

Mc Series 639. YELLOW

MC 10478 Iris 1904 6 50 +17.5° alt. Corr. -19

	sc 1	Curve	Magn.	Diff. Sens. g h	Curve	Magn.	sc 2	Curve	Magn.
1	6.1 6.4	0.62	7.02	13.3 13.30 13.3	-6.29	7.01	13.4	-6.51	6.89
2	7.1 7.4 B.	0.09	7.49	n.s. n.s.			f.		
3	8.1 8.4 8.2 8.30 ±	-0.39	7.91						
4	10.1	-1.35	8.75						
5	10.4	-1.50	8.90						
6	11.1	-1.85	9.25						
7	11.7	-2.12	9.58						
8	12.2	-2.33	9.87						
9	12.5	-2.45	10.05						
10	12.2 12.2 12.20 ±0	-2.33	9.87						
11	13.0 12.8 12.90 ±1	-2.59	10.31						
12	13.1 13.3 13.20 ±1	-2.65	10.55						
13	12.8 12.9 12.85 ±1	-2.55	10.30						
14	n.s. n.s.	.	.						
15	13.5 13.5 13.50 ±0	-2.73	10.77						

E.S.

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1916phae_proj.10730

Thursday March 16. 1916.

Scale R — Mc series 639. YELLOW — Copied 21:121

Mc 10480 — Eros 1901 — 7 00 + 5.0° — Alt. Corr. +06

		sc.1	sc.2	Curve	Magn.	Diffr. Imn. g	h	Curve	Magn.	P.C. sc.2	Curve	Magn.
	a	4.3	4.6	•	•	12.0	12.1 (12.05 01)	•	•	12.3	−6.15	6.15
	1	7.1	7.4B.	0.09	7.49	m.s.	13.5?	6.32	7.18?	m.s.		
	1a	9.0	9.3 9.4	9.35 ±0	−0.95	8.40						
	2	10.6			−1.60	9.00						
	2a	11.6	11.55 01 11.5		−2.05	9.50						
	3	11.9	12.00 ±1 12.1		−2.25	9.75						
	4	13.2	13.20 00 13.2		−2.66	10.54						
	5	14.0	13.77 22 ± 13.6 13.5		−2.80	10.97						
	6	m.s.	m.s.									
	7	m.s.										
	8											
	9											
Eros. Mar. 28	A	11.4	11.40 00 11.4		−1.98	9.42	m.s.	m.s.		m.s.		
	B	11.9	11.85 10 11.8		−2.20	9.65						
	C	11.5	11.40 ±1 11.3		−1.98	9.42						
	D	11.4	11.40 00 11.4		−1.98	9.42						
	E	12.2	12.30 ±1 12.4		−2.37	9.93						
	F	11.3	11.25 10 11.2		−1.92	9.33						
	H	8.0	8.3		−0.21	8.09						
(more blur.)	a	+ fr.										
	b	13.8	13.80 00 13.8		−2.80	11.00						
	c	ms	ms									
	d	m.s.										
	f	m.s.										

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Thursday March 16, 1916

Copied 21 : 1221

Scale R

Mc Series 639 YELLOW

Mc 10'480 Eros 1901 7 00 +5.0 Alt. Corr. +.06

March 29.		sc 1	sc 2	Curve	Magn.	Diffr. Inn. g	h	P.C. sc 2	Curve	Magn.
	A	B.						12.2	-6.11	6.09
	C	11.7	11.90 00 11.9	-2.21	9.69			m.s.		
	D	12.57	12.80 +1 12.9	-2.54	10.26					
	E	12.8	12.80 00 12.8	-2.54	10.26					
	F	11.21	11.25 01 11.3	-1.92	9.33					
	a	m.s.								
	b	13.6	13.55 01 13.5	-2.75	10.80					
	c	m.s.								
	d	m.s.								
	f	1								

11:05

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1916phae.proj.10730

Friday March 17, 1916.

Plotted on sheet 285

Scale R

1:30

Mc Series 586.

Mc 9781 Pole.

Mc 9792

		sc.1	sc.2	sc.1	sc.2	Mean	Diff.	sc.2	sc.2	Diff.
								P.C.		
off pl.	1								8.4	-3.96
"	2									
	3	B.						10.4	10.45 01 10.5	-4.83
	4	B.						10.6	10.55 01 10.5	-4.69
	5	3.4	3.7	3.4	3.7	3.70 00	2.73	11.4	11.55 21 11.7	-5.12
	6	5.0	5.3	5.1	5.4	5.35 ± 0	1.68	12.2	12.25 01 12.3	-5.27
	7	5.5	5.8	5.9	6.2	6.00 ± 2	1.46	12.6	12.75 21 12.9	-5.29
	8	7.1	7.4	6.9	7.2 B.	7.30 ± 1	0.73	13.5	13.60 ± 1 13.7	-5.57
	9	8.2	8.5	8.4	8.7 8.5 8.60 ± 1	8.55 05 05	0.19	⏚	⏚	
	10	8.5	8.8	8.9	9.2 9.1 9.15 01	8.98 18 17	-0.10			
	11		10.2		10.2	10.20 00	-0.84			
	12		10.4		10.5	10.45 01	-0.87			
	13		11.5		11.4 11.40 00 11.4	11.45 05 05	-1.37			
	14		11.8 11.85 01 11.9		12.0 11.95 01 11.9	11.90 05 05	-1.66			
	15		12.2 12.20 00 12.2		12.2 12.20 00 12.2	12.20 00 00	-1.56			
	16		12.9 12.90 00 12.9		12.7 12.80 ± 1 12.9	12.85 05 05	-1.91			
	17		12.9 12.95 ± 0 13.0		13.1 13.15 ± 0 13.2	13.05 10 10	-2.01			
	18		13.5 13.50 00 13.5		13.4 13.40 00 13.4	13.45 05 05	-1.89			
	19		m.s. m.s.		m.s. ⏚					
	20		m.s. m.s		m.s.					

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Friday March 17, 1916

Scale 12

Mc Series 586-

		Mc 9787		Pole cent.		Diffr. Inv. Mc 9792	
		g sc2	h sc2	g sc2	h sc2	Mean	Diff.
Iffl.	1	.	.	t.p.	t.p.		
"	2	.	.	.	.		
	3	t.p.	10.2	10.3	t.p.	10.25 01	-4.63
	4	t.p.	10.4	10.4	t.p.	10.40 00	-4.54
	5	11.4	11.40 00 11.4	11.4	11.40 00 11.4	11.40 00 00	-4.97
	6	12.3		12.3	12.35 ±0 12.4	12.32 03 03	-5.34
	4	12.9	12.80 ±1 12.9	12.5	12.55 ±0 12.6	12.68 12 13	-5.22
	8	t.p.	13.4	t.p.	13.4	13.40 00	-5.37
	9	n.s.	n.s.	n.s.	n.s.		

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Card.

Scale R

Mc Series 586.

Mc 9788 | D M | 8 10 −12.5 alt. Corr. −.07

	sc.1	sc.2	sc.2	Curve	Magn.	Diff. Im. 9 sc.2	Diff. Im. h sc.2	Curve	Magn.	P.C. sc.2	Curve	Magn.
α	5.86.1	B		1.36	7.46	12.8	+p.	−5.29	7.51	13.2	−5.42	7.78
β	8.1	8.4	8.1	8.25	2L	0.25	8.50	‡	‡			n.s.
1	8.4	8.7	8.4	8.55	1≥	0.09	8.64	n.s.	n.s.			
1a		9.4				−0.35	9.05					
2		9.8				−0.56	9.24					
3		10.1				−0.70	9.40					
3a		10.2				−0.75	9.45					
4		10.9				−1.07	9.83					
5		10.6	10.65 01	10.7		−0.95	9.70					
5a		11.4	from 11.40 00	11.4		−1.30	10.10					
5b		12.1	12.00 ±	11.9		−1.54	10.46					
5c		12.3	12.30 +.00	12.3		−1.65	10.65					
7		12.5	12.55 ±0	12.6		−1.74	10.81					
6		13.4	13.40 00	13.4		−1.97	11.43					
8		‡	‡.									
9		‡										

2.5F

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Friday March 17, 1916.

Scale R. Mc Series 586 Card

Mc 9789 Dm. 8 10 – 7.5 Alt. Corr. -.01

	sc1	sc2	sc?	Curve	Magn.	Diffr. Im. sc2	sc?	Curve	Magn.	Gc. sc2	Curve	Magn.
1	6.5	6.8 B		1.00	7.80	t.p	t.p			13.2	-5.43	7.77
2	7.5	7.8 B		0.47	8.27	t.p	13.5	-5.35	8.15	13.9?	-5.53	8.37?
2a		9.5		-0.40	9.10	n.s	n.s.			n.s.		
2b		10.2		-0.75	9.45							
2c		10.7		-0.99	9.71							
4		11.3		-1.25	10.05							
3		11.4	11.45 0.1 11.5	-1.31	10.14							
5		11.4	11.40 0.0 11.4	-1.30	10.10							
6		11.8	11.95 3.1 12.1	-1.51	10.44							
7		12.2	12.15 0.2 12.1 v.f.	-1.60	10.55							
8		13.1	13.10 0.0 13.1	-1.90	11.20							
9 Im. blurred.		t.p										
11 " blurred.		t.p.										
12		13.5	13.45 1.0 13.4	-1.98	11.47							

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Friday March 17, 1916.

Scale R — Mc Series 586 — Copied 21:126-128 — Card.

		Mc 9790			Eros 1901		8 10 + 2 5 Alt. Corr. +.05					
							Diffr. Im.					
		sc.1	sc.2	sc.3	Curve	Magn.	g sc.2 − sc.2 h	Curve	Magn.	sc.2	Curve	Magn.
Seq. for Apr. 15	A		~~10.0~~	9.1	−0.50	9.20	m.s.	m.s.		m.s.		
	B	5.5 5.8	B.		1.52	7.32	12.2 (12.20 ∘∘) 12.2	−5.19	7.01	12.4	−5.27	7.13
	D		9.3 (9.20 1/)	9.1	−0.24	8.96				m.s.		
	E	8.5 8.8	8.95 2/	9.1	−0.11	8.84	?	?				
	a		12.3 (12.30 ∘∘)	12.3	−1.65	10.65						
	b		12.8 (12.65 2/)	12.5	−1.78	10.87						
	c		13.4 (13.40 ∘∘)	13.4	−1.97	11.43						
	γ		m.s.	.								
	β		m.s.	.								
Eros Apr 17.	A	5.4 5.7			+0.60 −1.72	7 6.30	12.2 (12.25 01) 12.3	−5.20	7.05	12.4	−5.27	7.13
	B		10.2 (10.15 01)	10.1	−1.72	8.43				m.s.		
	C		10.5 (10.40 1/)	10.3	−0.85	9.55						
	a		13.2 (13.30 1/)	13.4	−1.95	11.35						
	b		13.3? t/r.		−1.95	11.35?						
	c		?	.	.							
	d		?	.	.							
	f		?	.	.							
dbl?	g		10.4? (10.35 01)	10.3	−1.82	8.53?						
	h		12.9 thor (13.00 1/)	13.1	−1.88	11.12						
April 18	A		11.8 (11.75 01)	11.7	−1.43	10.32				m.s.		
	B		10.3 (10.25 1∘)	10.2	−0.79	9.46						
	D	8.8 9.1	9.10 ∘∘	9.1	−0.20	8.90						
	E	8.8 9.1	9.10 ∘∘	9.1	−0.20	8.90						
	a		12.3		−1.65	10.65						

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Scale R

Mc series 586.

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Card.

Mc9790

Eros cont

Alt. Corr. +.05

		sc.1	sc.2	sc.3	Curve	Magn.	Curve Magn.
	b		12.2	12.20 00 12.2	-1.60	10.60	
	c		13.1		-1.90	11.20	
	d		7		.		
	f		7	7 +f.	.		
	g				.		
Apr. 19.	A		11.1	11.10 00 11.1	-1.18	9.92	
	B		12.2	12.20 00 12.2	-1.61	10.59	
	C		9.4	9.55 21 9.1	-0.42	9.13	
	a		12.2	12.20 00 12.2	-1.60	10.60	
	b		12.2	12.20 00 12.2	-1.60	10.60	
	d		7	t.p.			
	f		n.s.	.			
	g		n.s.	.			
Apr. 20	A		12.3		-1.65	10.65	
(Images poor,	B		10.4		-0.85	9.55	
sequence on	C		t.p.		.		
ephemeris edge)	D		t.p. +0.4		.		
	E	B.			n.s. n.s.		13.4? -5.47 7.93?
	F		t.p.				
	a		n.s.				
	b		n.s.				
	c						
	d						
	f						

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Friday March 17, 1916.

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Scale R — Mc Series 586 — Card.

Mc 9791 — T Hydrae — 8 50 −15 alt. Corr. −.02

		sc 1	sc 2	Curve	magn.	Diff Im. 9 h	Curve	magn.	9c. sc 2	Curve	magn.
Var Seq	a	4.7	5.0	1.99	6.99	11.9 12.00 12.1	−5.14	6.86	12.2	−5.22	6.98
	b	5.3	5.6	1.65	7.25	12.7 12.70 00 12.7	−5.28	7.42	12.9	−5.37	7.53
	c	6.2	6.5	1.15	7.65	t.p. t.p.			13.2	−5.43	7.77
	d	6.4	6.7	1.03	7.73	t.p. t.p.			13.1	−5.41	7.69
	e	7.5	7.8 B.	0.47	8.27	t.p. t.p.			∓		
	f	8.4	8.7 8.5 8.60 ±	0.06	8.66	t.p. t.p.					
	g	8.4	8.7 8.3 4 8.55 ±	0.09	8.64						
	h	9.4	9.45 01 9.5	−0.38	9.07						
	h'	9.7	9.90 00 9.9 ?	−0.60	9.30						
	g'	10.4	10.40 00 10.4	−0.85	9.55						
	f'	10.4	10.35 02 10.3	−0.82	9.53						
	l	10.7	10.70 00 10.7	−0.99	9.71						
	m	11.5	11.45 10 11.4	−1.31	10.14						
	n	t.p.	12.1	−1.58	10.52						
	o	12.4	12.55 ±1 12.7	−1.74	10.81						
	p	~~13.1~~	~~13.10 00 13.1~~	−1.90	11.20	wrong star					
	Var	6.5	6.8	0.99	7.79				13.3	−5.45	7.85
	1	5.8	6.1	1.36	7.46	t.p. t.p.			12.6	−5.30	7.30
	4	7.5	7.8	0.47	8.27	∓ ∓.			∓		
	2	7.8	8.1 B.	0.30	8.40						
	2a	9.0	9.3 9.2 1 9.25 10	−0.27	8.98						
	3		9.9	−0.60	9.30						
	6		10.2	−0.75	9.45						
	6a		10.4 10.40 00 10.4	−0.85	9.55						
	6b		10.8 10.80 00 10.8	−1.02	9.78						
	5		11.1 11.10 00 11.1	−1.18	9.92						
	5a		11.3 11.35 10 11.4	−1.28	10.07						

cont

	sc 2		
8	13.2	−1.93	11.27
9	13.2	−1.93	11.27

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Thursday March 23, 1916.

Plotted 293

Scale R-

mc series 604 YELLOW

10:26 mc 10417 Pole.

		mc 10422				P.C. 10422			
	sc.1 sc.2	sc.1 sc.2		mean	Diff.	sc.2	P.C.	mean	Diff.
Off pl. 1	.					.	9.5	9.5. a	
" 2	.					.	.	.	
3						10.6	10.6	10.60 00	-4.98
4						11.4	11.2	11.30 12	-5.46 4
5	3.8 4.1	3.9 4.2		4.15 10	2.28	12.0	11.8	11.90 12	-5.47
6	5.4 5.7	5.1 5.4		5.55 12	1.43	12.7	12.6	12.65 10	-5.67
7	6.4 6.7	6.1 foo 6.4		6.55 12	0.91	13.4	13.1	13.25 21	-5.79
8	7.3 7.6 B.	7.1 7.4 B.		7.50 12	0.53	14.0	?.	14.0 a.	-5.97
9	8.5 8.8 8.9 8.85 01	8.4 8.7 8.6 8.65 10		8.75 10 12	-0.01	m.s.	m.s.		
10	9.5	8.8 9.1 9.1 9.10 00		9.30 20 20	-0.42				
11	10.4	10.4		10.40 00	-0.04				
12	11.1 11.00 12 10.9	10.7		10.85 15 15	-1.27				
13	11.8 11.70 12 11.6	11.6 11.60 00 11.6		11.65 05 05	-1.57				
14	11.8 11.70 12 11.6	12.2 12.20 00 12.2		11.95 25 25	-1.71				
15	12.8 12.75 01 12.7	12.7 12.65 10 12.6		12.70 05 05	-2.06				
16	13.2 13.30 11 13.4	def? def?		13.30 a.	-2.36				
17	13.3 13.35 10 13.4	13.1 12.95 12 12.8		13.15 20 20	-2.11				
18	?. ?.	13.8 13.80 00 13.8		13.80 a.	-2.24				
19	?.	m.s. m.s.							
20	m.s.	m.s.							
21									

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Thursday March 23, 1916.

Scale R

Mc Series 634 YELLOW

		MC 10417		Pole. cont.		Diffr. Images.	
		g	h	10422			
		sec z	sec z	g sec z	h sec z	Mean	Diff.
Off fol.	1	.	.	B	B.		
	2	.	.	.	.		
	3	t.p.	t.p.	.	.		
	4	11.3	t.p.	11.3	t.p.	11.30 00	-5.44
	5	11.4	11.50 ±1 116	11.1	11.10 00 11.1	11.30 20 20	-5.87
	6	12.4	12.45 01 12.5	12.4	12.40 00 12.4	12.42 03 07	-5.44
	7	13.2	13.25 01 13.3	12.9	13.00 ±1 13.1	13.12 13 12	-5.66
	8	t	t.	13.5	13.60 ±1 13.7	13.60 . a	-5.57
	9			t	t.		
	10						
	11						
	12						

after Series.
11:50

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Thursday March 23, 1916.

Scale R Mc Series 634 YELLOW

Mc 10418 Iris 1904 γ 00 + 200° alt. Corr. +.09

Ref. Seq.		sc 1	sc 2	Curve	Magn.	Diffr. Im. g	Diffr. Im. h	Curve	Magn.	P.C. sc 2	P.C. Curve	P.C. Magn.
	α	5	5.8	1.35	7.15	12.7	12.7 (12.70 ±0)	-5.56	7.14	13.4	-5.80	7.60
	β	5	9 6.2	1.15	7.35	12.7	12.9 (12.80 ±1)	-5.56	7.24	13.4	-5.80	7.60
	1	8	9 8.6	8.5 8.55 ±1	-0.04	8.51	n.s.	n.s.		n.s.		
wr. unit.	2		9.6 ~~10.6~~		-0.60	9.00						
	2a		10.4		-1.04	9.36						
	3		11.2	11.10 ±2 11.0	-1.38	9.72						
	5		10 9	10.95 ±0 11.0	-1.30	9.65						
	4		11.3	11.20 ±1 11.1	-1.30	9.90						
	4a		11.6	11.60 ±0 11.6	-1.60	10.00						
	4b		12.2	12.30 ±1 12.4	-1.88	10.42						
	6		12.6	12.60 ±0 12.6	-1.99	10.61						
	7		12.8	12.85 ±1 12.9	-2.08	10.77						
	8 9			13.3	-2.21	11.09						
	8		7.	7.								
	10.											

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Card.

Scale R Mc Series 634. YELLOW

Mc 10419 Iris 1904 7 10 +17.5 alt. Corr. +09

	sc.1	sc.2		Curve	Magn.	Diffr. Im g h 13.30 00	Curve	Magn.	G.C. sc.2	Curve	Magn.
α	6.7	7.0		0.77	7.77	13.3 13.3	-5.56	7.74	13.3	-5.78	7.52
2	7.4	7.7	B.	0.42	8.12	13.6? t.p.	-5.56	8.04?	13.6?	-5.84	7.76?
1	7.8	8.1	8.1 8.10 00	0.20	8.30	± ±			t.p.		
5	8.5	8.6	8.9 8.85 01	-0.21	8.64				n.s.		
3	8.8	9.1	9.2 9.15 ±0	-0.37	8.78						
4			9.4	-0.50	8.90						
7			10.3	-1.00	9.30						
6			10.5	-1.09	9.41						
6a			11.1 11.00 ±2 10.9	-1.32	9.68						
6b			11.6 11.55 02 11.5	-1.58	9.97						
8			12.3 12.25 10 12.2	-1.85	10.40						
10			12.9 12.90 00 12.9	-2.10	10.80						
9			12.9 13.00 ±1 13.1	-2.13	10.87						
11			13.4 13.35 02 13.3	-2.23	11.12						
12			t.p. t.p.								

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Thursday March 23, 1916.

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Card.

Scale

Mc Series 634. YELLOW

Mc 10420 Iris 1904 7 30 +17.5 Alt. Corr. +.09

	sc.1	sc.2	Curve	Magn.	Diffr. Im. g	h	Curve	Magn.	P.C. sc.2	Curve	Magn.
1	6.5	6.8	0.85	7.65	13.2	13.25 01 13.3	-5.56	7.69	13.4	-5.80	7.60
2	6.7	7.0	0.77	7.77	13.4	t.p.	-5.56	7.84	13.7	-5.86	7.84
2a	7.6	7.9 B.	0.32	8.22	13.9	7.	-5.56	7.34 8	m.s.?		
2b	8.6	8.9 9.1	-0.28	8.72	m.s	m.s					
3		9.5 9.00 ± 1	-0.55	8.95							
3a		10.3	-0.99	9.31							
8		10.3	-0.99	9.31							
4		10.8	-1.24	9.56							
6		11.1	-1.38	9.72							
9		11.2	-1.42	9.78							
5		11.4 11.35 01 11.3	-1.50	9.85							
5a		11.8 11.95 01 11.7	-1.66	10.09							
7		12.2 12.20 00 12.2	-1.83	10.37							
11		12.6 12.65 01 12.7	-2.00	10.65							
10		13.3 13.35 ±0 13.4	-2.23	11.12							
12		13.6 13.55 01 13.5	-2.28	11.27							
13		13.4 from 13.40? 00 from 13.4?	-2.24	11.16?							

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Thursday March 23, 1916.

Scale R. Mc series 634 YELLOW Copied 21: 123, 125

		Mc 10421	Eros 1901		4 50 + 2.5 —		Alt. Corr. +.03		
					Diffr. Imm.		B.C.		
		pc.1 pc.2 pc.3	Curve	Magn.	9 h	Curve	Magn.	pc.2	Curve	Magn.
	α	B.			9.1 9.15 ±0 9.2	.	.	10.3	-5.05	5.25
	β	4.1 4.4	2.06	6.46	11.1 11.70 00 11.1	-5.56	6.14	12.2	-5.57	6.63
	γ	6.2 6.5	0.95	7.45	13.1 13.15 ±0 13.2	-5.56	7.59	13.4	-5.80	7.60
	1	7.3 7.6 B.	0.50	8.10	7 7.			m.s.		
Apr. 10	B = 2	8.9 9.2 9.2 9.2000	-0.39	8.81						
" "	E = 3	10.2	-0.94	9.26						
Apr. 10	C = 4	11.3	-1.44	9.86						
" "	F = 5	11.8	-1.68	10.12						
	6	12.2 12.25 01 12.3	-1.85	10.40						
Apr. 10	H = 7	12.7 12.70 00 12.7	-2.01	10.69						
	8	13.4 13.35 01 13.3	-2.23	11.12						
	9	13.1 13.15 ±0 13.2	-2.18	10.98						
Apr. 10	A	11.7 11.20 00 11.2	-1.42	9.78						
" "	b	m.s. m.s.	.							
" "	a?	m.s. m.s.	.							
	10	13.3 13.25 10 13.2	-2.20	11.05						
	11	13.4 13.35 01 13.3	-2.23	11.12						
	12	m.s. m.s.								
Apr. 9	A	11.5	-1.55	9.95						
	C	13.5	-2.27	11.28						
	L	11.3 11.35 ±0 11.4	-1.50	9.85						
	M	7.9 8.2 8.1 8.15 01	0.18	8.33						
	T	11.4 11.40 00 11.4	-1.51	9.89						
	P	10.6 10.55 01 10.5	-1.11	9.44						
	Q	12.2 12.25 01 12.3	-1.86	10.39						
	R	10.1 10.1	-1.20	9.50						

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Thursday March 23, 1916.

Scale R

Mc Series 634 YELLOW Copies 21: 123-5

Mc 10421 Eros 1901 cont 7 50 +2.5° Alt. Corr. +.03

		Rc.1	sc.2	sc.2	Curve	magn.
Apr. 9 cont	a	11.2	11.15	0.1 11.1	-1.38	9.77
	b	12.1	12.15	±0 12.2	-1.81	10.34
	d	12.9	13.00	±1 13.1	-2.13	10.87
	f	?	m.s.			
	h	m.s.				
	g	m.s.				
Apr. 8	A	11.5	11.45	±0 11.4	-1.52	9.93
near edge	B	11.3	11.35	±0 11.4	-1.50	9.85
all images	C	11.1	11.15	±0 11.2	-1.40	9.75
Elongated	D	12.6	12.60	00 12.6	-1.98	10.62
	a	t.p.	t.p.			
	b	13.6	13.60	00 13.6	-2.29	11.31
	c	?.				
	d	?.				

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Friday March 24, 1916.

Plotted 291

Scale R — Mc Series 634. YELLOW

10:20 — Mc 10422 — Pole.

		Mc 10422 sc.1	Mc 10422 sc.2	Mc 10428 sc.1	Mc 10428 sc.2	Mc 10428 sc.3	Mean	Diff.	P.C. sc.2	P.C. 10428 sc.2	Mean	Diff.
	1	.		.			.		9.5	.	9.5 a =	
off fd	2	.		off fd.			.		.	.	off film.	
	3	.		off fd.			.		10.7	.	10.7 a =	-5.08
	4	B		B			.		11.2	11.1	11.15 0 ±	-5.29
	5	3.9	4.2	3.5	3.8		4.00 2 2	2.43	12.0	11.7	11.85 2 ±	-5.42
	6	5.0	5.3	5.2	5.5		5.40 ± 1	1.58	12.8	12.8	12.80 0 0	-5.82
	7	5.9	6.2	5.7	6.0		6.10 1 ±	1.36	13.3	12.9	13.10 2 2	-5.64
	8	7.1	7.4 B.	7.2	7.5 B.		7.45 0 1	0.58	7.	13.8?	13.8? a =	-5.77
	9	8.3	8.6 8.1	8.3	8.6 8.8		8.65 0 1 / 8.70 ± 1		m.s.	m.s.		
	10	8.8	9.1 9.1	8.9	9.2 9.2		9.10 0 0 / 9.20 0 0	0.06 / -0.27				
	11		10.4		10.2		10.30 ± 1	-0.94				
	12		10.7		10.5		10.60 1 ±	-1.02				
	13		11.8		11.6		11.70 1 ±	-1.62				
	14		12.1 12.15 ± 0 12.2		12.1		12.12 0 3 0 2	-1.88				
	15		12.6 12.60 0 0 12.6		12.3		12.45 1 5 1 5	-1.81				
	16		13.1 13.10 0 0 13.1		13.1		13.10 0 0 0 0	-2.16				
	17		13.2 13.20 0 0 13.2		film damaged		13.20 a =	-2.16				
	18		13.8 13.85 0 1 13.9		" "		13.85 a =	-2.29				
	19		7.		7.							
	20											

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Friday March 24, 1916.

Scale R

Mc Series 634. YELLOW

	MC 10422 cont. Pole		10428		Diff. from	
	g sec z	h sec z	g	h	Mean	Diff.
1	.	.	.	.	.	
2	.	.	.	.	.	
3	.	.	.	.	.	
4	11.4	t.p. ~~11.4 .0~~	t.p.	t.p.	11.4 @.	-5.54
5	11.3 11.40 ÷1 11.5		11.4 11.40 00	11.4	11.40 00 00	-4.97
6	12.4 12.40 00 12.4		12.5 12.45 10	12.4	12.42 02 03	-5.44
7	12.9 13.00 ÷1 13.1		12.9 12.90 00	12.9	12.95 05 05	-5.49
8	13.5 13.60 ÷1 13.7		13.5 13.55 ÷0	13.6	13.58 02 03	-5.55
9	t.	t.	t.	t.		
10						
11						
12						

12:05
1:05 −2 00

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Friday March 24, 1916.

Scale R Mc series 634. YELLOW

Mc 10423. Iris 1904 DM 8 00 +1.50 Alt. Corr. +.08

			Curve	Magn.	Diffr. Im.		Curve	Magn.	P.C.	Curve	Magn.
	pc.1	pc.2			pc.2	pc.2			pc.2		
d	6.3	6.6 B.	1.10	7.70	12.9	13.00±1 13.1	-5.52	7.48	13.4	-5.75	-7.65
β	7.7	8.0 8.1 8.05 01	0.38	8.43	±	14.0?	•	•	±?		
1	9.3		-0.38	8.92	m.s.	m.s.			m.s.		
2	9.4		-0.44	8.98							
2a	9.1		-0.63	9.07							
3	10.3		-0.96	9.34							
3a	10.1		-1.16	9.54							
3b	11.3		-1.45	9.85							
4	11.4	11.50±1 11.6	-1.55	9.95							
5	12.2	12.15 0± 12.1	-1.81	10.34							
6	12.1	12.10 00 12.1	-1.80	10.30							
8	12.1	12.15±0 12.2	-1.81	10.34							
8a	12.8	12.80 00 12.8	-2.05	10.75							
12	13.1	13.15±0 13.2	-2.14	11.01							
10	13.2	13.20 00 13.2	-2.16	11.04							
11	±	±									
9	m.s.	m.s.									

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Friday March 24, 1916.

Scale R

Mc series 634- YELLOW Copied 21: 126-8

Mc 10425 4 Eros 1901 } 10m 8 10 20 0.0 +2.5° Alt. Corr. +.01

		sc.1	sc.2	sc.3	Curve	Magn.	Diffr. Im. g.	h	Curve	Magn.	P.C. sc.2	Curve	Magn.
Apr. 15	A		10.8	10.75 ±.0 10.7	-1.19	9.56	.				m.s.		
	B	6.4	6.7	B.	1.05	7.75	12.9	13.05 ±.2 13.2	-5.52	7.53	13.3	-5.75	7.55
	D		9.9	10.00 ±.1 10.1	-0.80	9.20	.	.			m.s.		
	E		10.0	10.05 ±.1 10.1	-0.82	9.23							
	a		13.2	13.30 ±.1 13.4	-2.19	11.11							
	b		13.7	13.85 ±.2 14.0	-2.30	11.55							
	c		m.s.	m.s.	.								
	β		?		.								
	γ												
Apr. 17	A	6.3	6.6	B	1.10	7.70	13.1	13.00 ±.2 12.9	-5.52	7.48	13.3	-5.75	7.55
	B		11.1	10.90 ±.2 10.7	-1.25	9.65	m.s.	m.s.					
	C		11.3	11.25 ±.0 11.2	-1.42	9.83							
	a		m.s.	m.s.	.								
	b		m.s.		.								
	c		m.s.		.								
	d		m.s.		.								
	f		m.s.		.								
	g		11.3	11.25 ±.0 11.2	-1.42	9.83							
	h		13.6	13.80 ±.2 14.0	-2.29	11.01							
Apr. 18	A		12.5	12.45 ±.0 12.4	-1.92	10.53							
	B		10.7	10.75 ±.0 10.8	-1.19	9.56							
	D		10.1	10.10 ±.0 10.1	-0.87	9.23							
	E		9.8	9.95 ±.1 10.1	-0.78	9.17							

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Scale B — Mc series 634. YELLOW Copied 21:129

		Mc 10424	Eros 1901	8 10 +2.5	alt. Corr. +.01
		sc 1 sc 2 sc 2	Curve	Magn.	
Apr. 18 cont.	a	13.1 13.00 12.9	-2.10	10.90	
	b	12.8 12.70 12.6	-2.01	10.69	
	c	f. f?			
	f	m.s.			
	d	f.			
Apr 19	A	11.7 11.90 12.1	-1.72	10.18	
	B	13.0 13.00 13.0	-2.10	10.90	
	C	10.4 10.40 10.4	-1.00	9.40	
	D				
	a	def? 13.3	-2.19	11.11	
	b	13.4 13.40 13.4	-2.21	11.19	
	c	m.s.			
	d	m.s.			
	f	m.s.			
Apr. 20 (on edge)	A				
	B				
	C				
Image	D				
	E				
	a				
	b				
	c				
	d				

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Scale R Mc series 624- YELLOW Copied 21:13 0.1

Mc 10247 25 Eros 1901 8 20 0.0 Alt. Corr. -.01

		sc.1	sc.2	Curve	Magn.	Diffr. Inn. g	h	Curve	Magn.	P.C. sc.2	Curve	Magn.
Ref. Leg.	α	5.8	6.1	1.30	7.40	12.6	12.65 0.1 12.7	-5.47	7.18	13.1	-5.74	7.36
	β	6.7	7.0	0.92	7.92	13.4	13.50 0.1 13.6	-5.55	7.95	13.5	-5.75	7.75
	1	7.2	7.5 B.	0.68	8.18	†	†			†		
Apr. 20 E =	1a	8.1	8.4 8.3 8.35 0.1	0.20	8.55							
	2	8.2	8.5 8.7 8.60 0.1	0.06	8.66							
	2a		9.6 9.50 1.2 9.4	-0.50	9.00							
	2b		10.4 10.25 2.1 10.1	-0.94	9.31							
	2c		11.3 11.35 1.0 11.4	-1.48	9.87							
	3		12.1 12.00 1.1 11.9	-1.75	10.25							
	4		13.1 13.10 0.0 13.1	-2.13	10.97							
	b		13.7 †	-2.27	11.43							
Apr. 20.	A		12.3 12.30 0.0 12.3	-1.88	10.42							
	B		10.2 10.20 0.0 10.2	-0.91	9.29							
	C		~~9.5~~ 9.65 1.2 9.8	-0.60	9.05							
	D		11.9 11.90 0.0 11.9	-1.72	10.18							
see 1a	E											
	F		9.2 9.15 0.1 9.1	-0.27	8.88							
	a		† m.s.									
	b		† m.s.									
	c		*12.6 12.50 0.1 12.4	-1.94	10.56							
	d		13.6 † f.	-2.25	11.35							
	f		† 14.0?									

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Scale R — Mc Series 634 - YELLOW Copied 21: 131, 2

Mc 10425 — Eros 1901 — 8 20 0.0 Alt. Corr. -.01

			sc.1	sc.2	sc.2	Curve	Magn.	Diffr. Im. g sc.2	h sc.2	Curve	Magn.	V.C sc.2	Curve	Magn.
Apr 23	A	69	7.2 B.			0.83	8.03	13.3	13.35 ±.0 13.4	-5.54	7.81	13.7	-5.75	7.95
	B	12.1	12.15 ±.0	12.2		-1.81	10.34							
	C	11.6	11.65 ±.01	11.7		-1.62	10.03							
	a	m.s.												
	b	m.s												
	c	m.s.												
	f	13.4	13.50 ±.1	13.6		-2.22	11.28							
	g	m.s.												
Apr. 24	A	t.f.												
(very poor)	B	9.2	9.25 ±.01	9.3		-0.33	8.92							
	C	12.4	12.45 ±.01	12.5		-1.92	10.53							
	D	12.2	12.20 ±.00	12.2		-1.84	10.36							
	E	t.f.												
	F	t.f.												
	G	12.6	12.50 ±.1	12.4		-1.95	10.55							
	a													
	b													
	C	t.f.												

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Friday March 24. 1916.

Scale R

Mc Series 634. YELLOW Copied 21: 128, 9

Mc 10425 cont Eros 1901. 8 20 0.0 Att: Corr. -.01

		sc.1	sc.2	sc.3	Curve	Magn.
Apr. 19.	A	11.4	11.40 00	11.4	-1.50	9.90
	B	12.5	12.60 ±1	12.1	-1.98	10.62
	C	10.1	10.25 ±2	10.4	-0.94	9.31
	a	12.8	12.85 01	12.9	-2.07	10.78
	b	12.9	13.00 ±1	13.1	-2.10	10.90
	d	m.s.		m.s		
	f	.				
	g	.				
Apr. 18	A	12.4	12.35 01	12.3	-1.90	10.45
	B	10.5	10.50 00	10.5	-1.07	9.43
	D	9.7	9.60 ±	9.5	-0.56	9.04
	E	9.6	9.65 01	9.7	-0.60	9.05
	a	13.1	12.95 ±2	12.8	-2.10	10.85
	b	12.7	12.70 00	12.7	-2.01	10.69
	c	m.s.				
	d	.		.		
	f	.		.		
Apr. 17 (on edge all images too faint. Too near edge	A	B.				134 -5.76 7.65
	B	t.f.				
	C	.				
	a	.				
	b					
	c					
	d					
	f					
	g					

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Friday March 24, 1916.

Scale R — Mc Series 634 - YELLOW — Copied 21:131,2

Mc 10426 — Eros 1901. — 8 30 - 2.5 Alt. Corr. -.04

	sc.1	sc.2	sc.3	Curve	Magn.	Diff. Im. g h	P.C sc.2	Curve	Magn.
1	6.4	6.7		1.06	7.76		13.5	-5.75	7.75
1a	7.3	7.6	7.3	0.62	8.22		~~7.~~ 7.?		
2	7.9	8.2	8.21 8.20	0.29	8.49				
3	8.4	8.7	8.5 8.60	1.1 0.06	8.66				
4	8.4	8.7	8.5 8.60	1.1 0.06	8.66				
5		9.6		-0.56	9.04				
5a		10.1		-0.86	9.24				
5b		10.5		-1.07	9.43				
6		10.9		-1.26	9.64				
7		11.1	11.15 11.2	1.0 -1.39	9.76				
8		11.5	11.55 11.6	1.0 -1.58	9.97				
9		12.2	12.25 12.3	0.1 -1.85	10.40				
10		12.6	12.50 12.4	1.1 -1.95	10.55				
12		12.7	12.65 12.6	1.0 -2.00	10.65				
11		12.4	12.35 12.3	0.1 -1.89	10.46				
Eros Apr. 23 (Edge) A	tip.						tip.		
B		12.0		-1.76	10.24				
C		12.1		-1.80	10.30				
a		tip.							
b		.							
c		.							
f		13.1		-2.13	10.97				
g		.							

see also next page.

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Friday March 24, 1916.

Scale R

Mc Series 634 YELLOW Copied 21:132

MC10426

Alt. Corr. -.04

				Curve	Magn.
Apr. 24 (On Edge)	A	12.8	12.85 01 12.9	-2.06	*10.79
	B	8.9 9.0		-0.18	*8.82
	C	11.8	11.80 00 11.8	-1.68	10.12
	D	11.1	11.00 1/ 10.9	-1.31	9.69
	E	11.1	11.15 ±0 11.2	-1.39	9.76
	F	10.6	10.55 0/ 10.5	-1.09	9.46
	G	11.5	11.65 ±2 11.8	-1.61	10.04
	a	12.7	12.80 ±1 12.9	-2.05	10.75
	b	n.s.			
	c	n.s.			

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Scale R. Mc Series 634 YELLOW

Mc 10427. Alt. Corr. -.02

		sc 1	sc 2	sc 3	Curve	Magn.	Diffr Inn, q h	Curve	Magn.	P.C. sc 2	Curve	Magn.
	α	5.1	5.4		1.64	7.04	12.5 12.45±.1° 12.4	-5.45	7.00	12.6	-5.67	6.93
fil. broken at no. 1	1	.	.							.		
	1a		9.80 2 = 10.0 9.6		-0.69	9.11						
	2		10.30 .0 10.3		-0.97	9.33						
	4		10.7000 10.7		-1.17	9.53						
	3		10.85±.1° 10.8		-1.22	9.63						
	6		11.50±.1 11.4		-1.55	9.95						
	5		11.95±.2 11.8		-1.73	10.22						
	7		12.75±.1 12.7		-2.02	10.73						
	8		13.30 .0 13.3		-2.19	11.11						
	9		13.30 .0 13.3		-2.19	11.11						
	10		m.s.									
	12		.									
	11											
							Copied 21.133					
May 4	a		13.35±.1° 13.4		-2.20	11.15	.					
	b		m.s.							.		
	c	~~5.4~~	m.s.							~~12.9~~		
	A		12.05±.2 12.2		-1.78	10.27				.		
	B		11.30 .0 11.3		-1.45	9.85				.		
	C	5.4					def? 12.5	-5.45	7.05	12.9	-5.71	7.19

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Thursday March 30. 1916.

Plotted 292

Scale R

9:45

mc series 642 YELLOW

		mc 10506		Pole. mc 10511				P.C. mc 10511	
		sc.1	sc.2 sc.3	sc.1	sc.2 sc.3	mean	Diff.	sc.2 sc.3	Diff.
off plate.	1								
	2								
	3							11.1 10.85 32 10.6	-5.23
	4								(P.C. off pl.)
	5	3.6	3.9	3.9	4.2	4.05 ± 0	2.38	12.0 12.05 01 12.1	-5.62
	6	5.1	5.4	5.5	5.8	5.60 ± 2	1.38	12.6 12.65 01 12.7	-5.67
	7	6.3	6.6	6.3	6.6	6.60 00	0.86	13.1 13.10 00 13.1	-5.64
	8	7.4	7.7	7.3	7.6 B.	7.65 10	0.38	13.7 13.60 15 13.5	-5.57
	9	8.6	8.8 9.2	9.05 ± 2	8.4 8.7	9.0 8.85 ± 0		8.95 10 10 -0.21	m.s. m.s.
	10	8.8	9.1 9.3	9.20 ± 1	8.9	9.2 9.1	9.15 01	9.18 02 03 -0.30	
wrong unit	11		17.3		10.2			10.25 1 0 -0.89	
	12		10.6		10.6			10.60 00 -1.02	
	13		11.7	11.75 ± 0 11.8		11.5		11.62 13 12 -1.54	
	14	12.1	12.10 00 12.1		12.2	12.05 21 11.9		12.08 02 03 -1.84	
	15	12.4	12.45 01 12.5		12.3	12.25 10 12.2		12.35 10 10 -1.71	
	16	13.0	13.05 01 13.1		13.0	13.05 01 13.1		13.05 00 00 -2.11	
	17	13.1	13.15 ± 0 13.2		13.0	13.05 01 13.1		13.10 05 05 -2.06	
poor	18	13.6	13.65? 01 13.7?		t.p.	t.p.		13.65? a. -2.09	
	19	13.9?	13.85? 10 13.8?		t.	t.		13.85? a 1 -1.91	
	20	m.s.	m.s.						
	21								

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1916phae..proj..10730

Thursday March 30, 1916.

Scale R — Mc Series 642 – YELLOW

	Mc 10506 g h sec 2 sec 2	Pole.	Diffr. 1m. Mc 10506 g h sec 2 sec 2	Mean	Diff.
Off plate 1	. .		. .		
2	. .		. .		
3	t.p. t.p.		. .		
4	.		11.2? t.p. ~~11.2~~ 7	11.2?	a = −5.34
5	11.7 11.70 00 11.7		11.4 11.40 00 11.4	11.55	15 15 −5.12
6	12.3 12.35 ±0 12.4		12.4 12.40 00 12.4	12.38	03 02 −5.40
7	13.1 13.00 ±1 12.9		12.5 12.55 ±0 12.6	12.78	22 23 −5.32
8	13.3 13.40 ±1 13.5		13.4 13.40 00 13.4	13.40	00 00 −5.37
9	m.s. m.s.		m.s. m.s.		
10					
11					

after Series. 10.55

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1916phae.proj.10730

Thursday March 30, 1916.

Scale R Mc Series 642. YELLOW Card.

Mc 10508 N.G.C. 2301 6 40 0.0 Alt. corr. +.03

Diffr. Dm. P.C.

DM Sequence		sc.1	sc.2		Curve	Magn.	q h	Curve	Magn.	sc.2	Curve	Magn.
	α	5.4	5.7		1.38	7.08	12.25 .01 12.2 12.3	-5.35	6.90	12.5	-5.64	6.86
	β	5.2	5.6		1.49	6.99	12.25 .10 12.3 12.2	-5.35	6.90	12.4	-5.64	6.76
	2	7.2	7.5	B.	0.47	7.97	13.45 .10 13.5 13.4	-5.37	8.08	f.		
	1	8.5	8.8	8.9 8.85 .01	-0.18	8.67	ms. ms.					
	3	8.8 ? from	9.1	9.3 9.20 ? .11	-0.33	8.87 ?						
	3a	8.9	9.2	9.3 9.25 .01	-0.35	8.90						
	4		10.6		-1.06	9.54						
	4a		11.5		-1.50	10.00						
	5		11.6	11.65 .01 11.7	-1.55	10.10						
	7		12.2	12.20 .00 12.2	-1.80	10.40						
	6		11.9	11.85 .10 11.8	-1.64	10.21						
	8		12.8	v.v. 12.95 .21 13.1	-2.02	10.93						
	9		13.4	13.40 .00 13.4	-2.07	11.33						
	10		13.8 ?	13.50 .12 from 13.4	-2.06	11.44 ?						
	11		f.	f.								

Copied, B 2, 1.462

Sequence for cluster	a	1	7.7		0.38	8.08	3 f.p.	f. f.				
	b	7	6 7.9	B.	0.29	8.19	f	13.5	-5.37	8.13	f.	
Image for this sequence are very poor, & do not compare with scale.	c	8.2	8.5	8.50 .00	0.00	8.50						
	c'		9.3		-0.40	8.90						
	d		10.1		-1.11	9.59						
	d'		11.6	11.45 .21 11.3	-1.47	9.98						
	d 2		11.8	11.75 .01 11.7 ? very poor.	-1.60	10.15						
	e		12.3	12.25 .10 12.2	-1.82	10.43						
	f		12.5 ?	12.50 .00 12.5	-1.91	10.59						
	g		13.4 ?	v.v. 13.25 .21 13.1 ?	-2.06	11.19 ?						
	h		f.p.	f.p.								

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1916phae.proj.10730

Thursday March 30, 1916.

Scale R Mc Series 642. YELLOW Card

Mc 10509 Dm. 6 50-7.5 Alt. corr. -02

		sc.1	sc.2	sc.3	Curve	Magn.	Diffr. Im. g h	Curve	Magn.	P.C. sc.2	Curve	Magn.
	α	4.3	4.6		2.00	6.60	11.8 11.85 11.9	-5.32	6.53	12.3	-5.63	6.67
	β	7.3	7.6 (B.)		0.42	8.02	133° t.f.	-5.37	7.93?	†		
87	1	8.1	9.0	9.2	-0.27	8.85	n.s.	n.s.				
87	2	8.6	8.9	9.1	-0.23	8.77						
	2a		10.2		+0.88	9.32						
	4		10.2		-0.88	9.32						
	3		10.6		-1.07	9.53						
	7		10.9		-1.21	9.69						
	5		11.3	11.30 11.3	-1.40	9.90						
	5a		12.1	12.15 12.2	-1.78	10.37						
	6		12.4	12.30 12.2	-1.84	10.46						
Image appears blurred	8		12.5?	12.45? 12.4	-1.90	10.55?						
	9		12.6	12.50 12.4	-1.91	10.59						
Large defect in glass	11		def.									
	13		†									
	10		†	t.f. †								

Images on this plate are very hazy.

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1916phae.proj.10730

Thursday March 30, 1916.

Scale R Mc Series 642 YELLOW copied 21:120 Card

Mc 10510 Eros 1901 Alt. corr. +.07

Sag for Eros 1901		sc.1	sc.2	sc.2	Curve	Magn.	g	h	Curve	Magn.	sc.2	Curve	Magn.
					Diffr. Im.						P.C.		
Mar. 23	1	5.9	6.2		1.12	7.32	12.5	12.55 ±0 12.6	-5.65 36	7.19	13.1	13.15 ±0 13.2	-5.64	7.51
	2	6.3	6.6		0.91	7.51	12.4	12.60 ±2 12.8	-5.36	7.24	13.2	13.25 01 13.3	-5.62	7.63
	3	7.5	7.8		0.33	8.13	t.p. 13.4		-5.37	8.03	t.			
	4		9.4		-0.44	8.96	n.s.	n.s.						
	A		10.1		-0.82	9.28								
	D		10.4		-0.98	9.42								
	E		10.6		-1.06	9.54								
	B		11.3		-1.40	9.90								
	C		11.3	11.40 ±1 11.5	-1.45	9.95								
	C'		11.8	11.85 01 11.9	-1.65	10.20								
	b		12.2	12.25 01 12.3	-1.82	10.43								
	519		12.6	12.60 00 12.6	-1.94	10.66								
	a		t.p.	t.p.	.	.								
	δ		13.4	13.40 00 13.4	-2.07	11.33								
	519		t.p.	13.7?	-2.05	11.65?								

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1916phae.proj.10730

Thursday April 6, 1916.

Scale R For Relative mags. Eros 1901. YELLOW

10:25 mc 10387 Eros 1901 Feb. 25, 26, 27. 5 20 +15° (Eff 20)

Feb. 25 Seq.		sc.1	sc.2	Bk 21:114 Diff Curve	Magn.	* g	h	Diff Curve	Magn.	P.C. sc.2	Curve	Magn.
	A	6.3	6.6 B.		2.24	n.s.	n.c.			f.		
	B	8.2	8.5 8.4	8.45 10	1.10	n.s.	n.s.					
	C	8.6	8.9 9.0 +18	8.95 ± 0	0.75							
	D	5.5	5.8 B.		2.57	12.6	t.p.	-4.23		12.8		
	a	8.4	8.7 8.5	8.60 ±	1.20							
	b		10.4	10.55 ±1 10.7	0.09							
	c		11.4	11.50 ±1 11.6	-0.30 ~~-0.44~~							
	d		11.6	11.65 ±0.1 11.7	? very poor -0.11							
	e		12.1	12.10 0.0 12.1	-0.56							
	f		12.7	12.80 ±1 12.9	-0.90							
	k		10.1	10.20 0.0 10.2	+0.18							
	β		11.3	11.25 ±0 11.2	-0.25							

* Copied Bk 21, p. 115

Feb. 26						*				
	A	8.3	8.6 8.5	8.55 0±	1.03	9.58	n.s.	n.s.		n.s.
	B	8.7	9.0 9.1	9.05 0.1	0.74	9.79				
	C		10.9	10.90 0.0 10.9	-0.07	10.83				
	D		10.2	10.25 0.1 10.3	+0.19	10.44				
	E		10.8	10.85 0.1 10.9	-0.04	10.81				
	F		9.2	9.20 0.0 9.2	+0.68	9.88				
	G		10.3	10.35 ±0 10.4	+0.14	10.49				
Identn uncertain	J?		n. (no star imprs.)		.	.				
	J		t.p.	t.p.	g	g				
	a		11.7	11.80 ±1 11.9	-0.45	11.35				
	φ		f.	f.	7 =	.				

See also next page.

* Reduction made with Magnitudes of Feb. 25, Bk 21 p. 114; which depend on 5 plates.

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1916phae.proj.10730

Thursday April 6, 1916.

Scale R. for Relative magns. YELLOW

		Mc 10387	Eros 1901	Copied Bk 2½ 116 5 20+15		
			*	Diffr. Im.		
		sc.1 sc.2 sc.3	Curve	Magn.	g b 8.95 12 2 Curve	Magn. Curve Magn.
Feb. 27	A	B.			9.1 8 8	9.8
	B	8.2 8.5 8.2 8.25 12	1.13	9.48	m.s. m.s.	
	c	11.1 11.10 00 11.1	-0.14	10 9.96		
	b	11.3 11.20 12 11.1	-0.18	11.02		
	d	t.p.	g	g		
	f	12.4 from t.p.	-0.69 g	11.71 g		
	g	12.5? 12.45 00 12.4	-0.71 ?	11.74?		
	h	13.2 13.15 00 13.1	-0.99	12.16		
bright star in i close dbl.	i	10.4 11.2	+0.15	10.55		
Ref Seq.	1	B.			t.p. 11.4	11.7
	2	6.0 6.3	+2.34	8.64	13.1 def.	?.
	3	7.3 7.6	+1.62	8 8.22	? ?	m.s.
	6	10.3 10.25 10 10.2	+0.20	10.45		
	9	11.2 11.15 00 11.1	-0.16	10.99		
wrong unit. 0. April 11,16.	10	11.7 11.50 22 18.3	-0.31	11.19		
	12	12.6 12.45 21 12.3	-0.71	11.74		

* See Remark at the bottom of page 117

10.55

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1916phae.proj.10730

Friday April 7. 1916.

Scale R — Mc series 648. YELLOW — Copied Blk

9:03 * Mc 10587 — Ross 1901 — 8 10 + 2.5 — Alt. Corr. +.04

		sc.1	sc.2	sc.2	Curve	magn.	Diffr. 1m g	h	Curve	magn.	PC. sc.2	Curve	magn.
Apr. 15. —	A		10.4	-0.78	9.62		.	.			m.s.		
	B	5.7	6.0	+1.42	7.42		12.7 12.65 10 12.6		-5.06	7.59	12.5 b	-5.23	7.37
	D		9.5	-0.30	9.20		.	.			m.s.		
	E		9.5	-0.30	9.20								
	a		12.6 12.60 00 12.6 (poor)	-1.57	11.03								
	b		13.3 13.35 10 13.4	-1.65	11.70								
	c		f.p.	m.s.	.								
	β		m.s.	m.s.	.								
	γ		13.6? (poor)	±?	-1.65 11.95?								
Apr 17 —	A	5.8	6.1 B		+1.37	7.47	* 12.3 12.35 10 12.4		-5.08	7.27	13.3 13.25 10 13.2	-5.13	8.12
	B		10.2		-0.62	9.58							
	C		10.4 10.30 10 10.2		-0.71	9.59							
	a		13.5 13.45 10 13.4		-1.65	11.80							
	b		m.s.	f	.								
	c		m.s.	.	.								
	d		m.s.	.	.								
	f		m.s.	.	.								
	g		10.3 10.25 10 10.2		-0.59	9.66							
	h		13.2 13.25 01 13.3		-1.64	11.61							
Apr. 18	A		11.3 11.30 00 11.3		-1.20	10.10					m.s.		
(wrong unit)	B		9 to 9 9.75 12 9.6		-0.43	9.32							
	D	8.6 8.9 8.6 8.9	9.2 9.0		9.00 10	-0.04	8.96						
	E	8.8	9.1 9.0		9.05 10	-0.05	9.00						

(over)

*-Mc 10586 (Pole) is B-

* Diffr. tr. [illegible]

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Friday April 7, 1916.

Scale R mc Series 648 YELLOW Copied Bk

mc 10587 cont. Eros 1901 8 10 +2.5 Alt. corr. +.04

					Diff. Im. g h	Bc. sc.2
Seq for Eros Apr. 18 cont.		sc.1	sc.2	sc.2 Curve	Magn.	
	a	12.2	12.20 00 12.2	-1.47	10.73	
	b	12.2	12.20 00 12.2	-1.47	10.73	
	c	12.9	13.05 ±2 13.2	-1.63	11.42	
	d	f.	13.9?	.	.	
	f	13.6?	f. p.	-1.65	11.95?	
Apr. 19	A	10.6	10.65 01 10.7	-0.90	9.75	
	B	12.1	11.95 ±2 11.8	-1.41	10.54	
	C	9.5	9.55 ±0 9.6	-0.31	9.24	
	a	12.3	12.30 00 12.3	-1.50	10.80	
	b	12.5	12.50 00 12.5	-1.57	10.93	
	d	f.s.	m.s.?	.	.	
	f	m.s.	m.s.	.	.	
	g	m.s.	m.s.	.	.	
Apr. 20 (near edge of plate)	A	12.3		-1.50	10.80	
	B	9.6		-0.35	9.25	
	C	~~12.3~~ 9.4	9.35 01 9.3	-0.21	9.14	
	D	11.6	11.65 01 11.7	-0.32	10.33	
	E	8.3? (var) 8.6	8.4 8.50 ?±	+0.21	8.71?	
	F	f.p.	9.2? (var.)	-0.14	9.06?	
	a	m.s.	f.	.		
	b	f.	f.	.		
	c	12.3	12.35 ±0 12.4	-1.51	10.84	
	d	f.p.	~~13.4~~ 13.4?	-1.65	11.75?	
	f	~~f.p.~~ f				

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Friday April 7, 1916.

Scale R Mc Lewis 648 YELLOW Copied Ble

Mc 10588 Eros 1901 8 20 0.0 Alt. corr. +.02

					Diff Im.		P.C.		
		sc.1 sc.2 sc.3	Curve	Magn.	g	h	sc.2	Curve	Magn.
Apr. 17 (on edge)	A	B.	-		t.p.	t.p.	12.9	-5.00	7.90
	B	10.4	-0.77	9.63					
	C	t.p.	.						
	a	?.	-						
	b	?	.						
	c	m.s.	.						
	d	m.s.	.						
	f	??	.						
	g	t.p.	.						
	h	?.	.						
Apr. 18	A	11.9 11.85 10 11.8	-1.40	10.45					
	B	10.2 10.15 02 10.1	~~-0.64 -1.48~~	9.51 ~~10.67~~					
	D	8.9 9.2 9.1 9.15 01	-0.11	9.04	.	.	?.		
	E	8.9 9.0 9.0 9.00 00	-0.04	8.96	.	.	?.		
	a	12.4 12.35 01 12.3	-1.51	10.84					
	b	12.4 12.45 01 12.5	-1.55	10.90					
	c	t.p. 13.5	-1.65	11.85					
	d	13.5 ?.	-1.65	11.85					
	f	?. 13.6	-1.65	11.95					
Apr. 19	A	10.? 10.70 00 10.?	-0.91	9.79					
	B	12.2 12.20 00 12.2	-1.48	10.72					
	C	9.6 9.70 01 9.8	-0.40	9.30					
	a	12.5 12.45 10 12.4	-1.55	10.90					
	b	12.3 12.35 10 12.4	-1.52	10.83					

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Friday April 7. 1916 -

Scale R Mc Series 648 YELLOW Copied Bk

Mc 10588 Eros 1901 8 20 0.0 Alt. corr. +.02

		sc.1	sc.2	Curve	Magn.	Diff Im. g	Diff Im. h	P.C. sc.2
Apr. 19 cont	d	m.s.		.	.			
	f	m.s.		.	.			
	g	m.s.		.	.			
Apr. 20	A		11.8 11.80 11.8	-1.38	10.42			
	B		9.3 9.40 9.5	-0.25	9.15			
	C	8.1 9.0	9.1 9.05	-0.06	8.99			
	D		10.8 10.85 10.9	-0.93	9.92			
	E	7.5 7.8	B.	+0.57	8.37	+f. 13.5	.	7
	F	8.1 8.4	8.6 8.50	+0.21	8.71			
	a		13.4 13.40 13.4	-1.65	11.75			
	f		13.4 13.40 13.4	-1.65	11.75			
	c		12.2 12.20 12.2	-1.48	10.72			
	d		13.1 +f.	-1.63	11.47			
	f		13.4 13.40 13.4?	-1.65	11.75?	.		
	g							
Apr. 23 →	A	B.				+f. +f.		13.3 -5.12 8.18
	B		11.3 11.30 11.3	-1.20	10.10			
	C		11.2 11.25 11.3	-1.18	10.07			
	a		m.s.	.	.			
	f		m.s.	.	.			
	f		12.6 12.65? 12.7	-1.59	11.06?			
g Mercompl.	g		~~A.S.~~ +f.	.				

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Friday April 7. 1916.

Scale 12 — Mc Series 648 YELLOW — Copied Ok

Mc 10588. cont Eros 1901 — 8 — 20 — 0.0 — Att. corr. +.02

		sc.1	sc.2	sc.3	Curve	Magn.
Apr. 24	A		12.5		-1.57	10.93
(on edge)	B		+/B	.	.	.
	C		+/.	.	.	.
	D		11.1	11.00 11 10.9	-1.05	9.95
	E		10.7	10.55 12 10.4	-0.85	9.70
	F		10.4	10.40 00 10.4	-0.78	9.62
	G		11.4	11.55 11.7	-1.29	10.26
	a		12.5	12.50 00 12.5	-1.57	10.93
	b		+/-.	.		
	c		+.	.		

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Friday April 7, 1916.

Scale R Mc Series b 48 YELLOW Copied Blk

Mc 10589 8 30 − 2.5° alt. corr. ss

Diffs. 1m. Q.C.

Ref Seq for curve		sc 1	sc 2	sc 7	Curve	Magn.	Diffs. 1m. sc 2	Diffs. 1m. sc 2 (h)	Curve	Magn.	Q.C. sc 2	Q.C. Curve	Q.C. Magn.
	1	5.7	6.0		+1.42	7.42	12.6	12.6 12.60.00	−5.08	7.52	13.0	−5.19	7.81
	1a	6.9	7.1		+0.92	8.02	13.1	+/− ·			13.5	−5.08	8.42
	2	7.5	7.8		+0.57	8.37	+/− 13.5?	·			7.		
	3	7.6	7.9		+0.51	8.41	± 13.6?	·			m.s.		
(wr. unit)	4	8.9	8.2		+0.37	8.57	m.s.	m.s.					
	5	8.2	8.5	8.6	8.55 ± 0	+0.20	8.75						
	5a	8.9	9.2	9.2	9.20 .00	−0.14	9.06						
	5b		9.7			−0.40	9.30						
	6		10.5	10.50.00	10.5	−0.82	9.68						
	7		10.5	10.45 ± 0	10.4	−0.80	9.65						
	8		11.1	11.15 ± 0	11.2	−1.13	10.02						
	9		11.7	11.75 ± 0	11.8	−1.36	10.39						
	10		12.1	12.15 ± 0	12.2	−1.47	10.68						
	12		12.1	12.15 ± 0	12.2	−1.47	10.68						
	11		11.9	11.85 ± 0	11.8	−1.40	10.45						
	11a		12.7	2 12.20.00	12.2	−1.48	10.72						
	11b		12.8	12.80 .00	12.8	−1.60	11.20						

Seq for Eros Apr 20, 1901 is off plate.

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Friday April 7. 1916.

Scale R Mc Series 648 YELLOW Copied Pk

Mc 10590 Eros 1901 9 10 - 2.5 alt. corr. +.01

		sc.1	sc.2	sc.3	Curve	Magn.	Diff. Im. g	Diff. Im. h	Curve	Magn.	P.C. sc.2	P.C. Curve	P.C. Magn.
	α	5.1	5.4		+1.73	7.13	11.4	11.60 ± 2 11.8	-4.90	6.70	12.1	-5.20	6.90
	1	7.0	7.3		+0.82	8.12	13.4	13.40 ·· 13.4	·		n.s.		
	1a	8.5	8.8	9.1 8.95 ± 0	0.00	8.95	n.s.	n.s.					
	2		9.7		-0.40	9.30							
	4		10.1		-0.60	9.50							
	3		10.3		-0.71	9.59							
	6		10.6	10.75 ± 1 10.9	-0.95	9.80							
	5		11.4	11.35 0 ± 11.3	-1.20	10.15							
	7		12.2	12.20 ·· 12.2	-1.48	10.72							
	8		12.2	12.30 ± 1 12.4	-1.50	10.80							
	9		13.1	13.15 ± 0 13.2	-1.63	11.52							
	10		12.6	12.75 ± 1 12.9	-1.60	11.15							
	12		12.6	12.70 ± 1 12.8	-1.60	11.10							
	11		def.	13.5	-1.65	11.85							
	13		∓	7.									
Leg May 4	A		11.4	11.40 ·· 11.4	-1.23	10.17							
	B		10.9	10.80 ± 1 10.7	-0.97	9.83							
	C	R.					12.1	12.10 ·· 12.1	-5.07	7.03	12.1	-5.20	6.90
	a		13.1	13.10 ·· 13.1	-1.63	11.47							
	b		13.4	13.40 ·· 13.4	-1.65	11.75							
	c		13.5	13.45 ± 0 13.4	-1.65	11.80							

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Friday April 7, 1916.

Scale R Mc Series 648. YELLOW Copied Blk

Mc 10591 Eros 1901 9 50-7.5 Alt. corr. -.02

		sc.1	sc.2	sc.3	Curve	Magn.	g h sc.2	sc.3	Curve	Magn.	P.C. sc.3	Curve	Magn.
1		B.					11.1	11.20 11.3	-4.71	6.49	11.9	-5.16	6.74
2		7.0	7.3	B.	+0.82	8.12	tf.	tf.			t.		
3		8.4	8.7	8.6	8.65 10	+0.15	8.80	m.s.	m.s.				
4		8.9	9.0	9.1	9.05 01	-0.06	8.99						
5			9.8			-0.45	9.35						
6			10.6			-0.87	9.73						
7			11.4	11.40 00	11.4	-1.23	10.17						
8			11.7	11.80 1	11.9	-1.38	10.42						
9			12.6	12.65 01	12.7	-1.59	11.06						
10			t.p.	t.p.									
11			13.5	13.45 10	13.4	-1.65	11.80						
12			t.	t.									
May 20	αA		10.9	10.80 1	10.7	-0.97	9.83						
	A8		11.2			-1.15	10.05						
	D		7.1	7.4	B.	+0.78	8.18	m.s.	m.s.		m.s.		
	E		11.8	11.65 2	11.5	-1.32	10.33						
	F		10.5	10.55 0	10.6	-0.84	9.71						
	G		10.2	10.15 2	10.1	-0.64	9.51						
"Uncertain ident."	a												
	b		m.s.										
"Uncertain ident."	c		12.1?	12.10 00	12.1	-1.47	10.63?						

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1916phae.proj.10730

Friday April 7, 1916.

Plotted 296

Leslie R. mc series 648 YELLOW

		mc 10596	Pole.				mc 10596	
			mc 10596		P.C.			
		rc.1 rc.2	rc.1 rc.2	mean	Diff.	rc.1 rc.2	rc.2	mean Diff.
	1					8.4		8.4 a. Off pl.
Off pl.	2	.				.	.	
" "	3	.				.	.	
	4					10.6	10.8	10.70 ±1 -4.84
	5	3.7? 4.0? Imfoss.	3.1 3.4		3.4 (6)² a 3.03	11.7	11.3	11.50 22 -5.07
	6	5.1 5.4	4.9 5.2		5.30 ±1 1.68	12.3	12.2	12.25 10 -5.27
	7	5.6 5.9	5.8 6.1		6.00 ±1 1.46	12.9	12.5	12.70 22 -5.24
	8	7.1 7.4 B.	6.9 7.2 B.		7.30 ±1 0.73	13.5?	13.1	13.1 (4)² a -5.07
	9	8.2 8.5 8.5 8.50 00	8.2 8.5 8.3	8.40 ±1	8.45 05 05 0.29	m.s.	13.8	13.8 a -5.06
	10	8.5 8.8 9.1 8.95 ±1	8.4 8.7 8.5	8.60 ±1	8.78 17 18 0.10		m.s.	
	11	9.7	9.9		9.80 ±1 -0.44			
	12	10.3	10.1 10.15 ±0 10.2		10.22 08 07 -0.64			
	13	11.2 11.15 ±1 11.1	11.2 11.15 ±1 11.1		11.15 00 00 -1.07			
	14	11.5 11.65 ±2 11.8	11.3 11.30 00 11.3		11.48 17 18 -1.24			
	15	12.1 12.15 ±0 12.2	12.2 12.20 00 12.2		12.18 03 02 -1.54			
	16	12.6 12.70 ±1 12.8	12.3 12.35 ±0 12.4		12.52 18 17 -1.58			
Imm very large ref.	17	12.3 .	12.3 12.30 00 12.3		12.30 a -1.26			
	18	13.4 13.50 ±1 13.5	13.0 13.05 01 13.1		13.28 22 23 -1.72			
	19	13.4 13.45 01 13.5	13.5 13.55 ±0 13.6		13.50 05 05 -1.56			
	20	f.	m.s. f.					

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Friday April 7, 1916.

Scale R Mc Series 648 YELLOW

	Mc 10592		Pole.		Diffr. Im.			
	g		h		Mc 10596.			
	sc.1	sc.2	sc.1	sc.2	g sc.2	h sc.2	mean	Diff.
1	tp.		.		.	.		
2	off fl.		.		.	.		
3	off fl.		.		.	.		
4	10.3		tp.		tp.	tp.	10.3 a.	-4.44
5	11.0	11.00 00	11.0		10.8	10.85 01 10.9	10.92 08 07	-4.49
6	12.2	12.25 01	12.3		11.8	11.85 01 11.9	12.05 20 20	-5.07
7	12.4	12.55 21	12.7		12.4	12.55 21 12.7	12.55 00 00	-5.09
8	13.1	13.15 20	13.2		12.7	12.75 10 12.8	12.95 20 20	-4.92
9	m.s.		m.s.		m.s.	m.s.		
10								

11:35 1:10

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Friday April 1. 1916.

Scale R Mc series 648 YELLOW

	Mc10593	Dim	10.00 +2.00	
			sc2 sc2	P.C.
	sc1 sc2 sc2		g h	sc2
2	6.9 7.2		13.4 13.45 01 13.5	13.4
1	7.3 7.6 B.		13.4 13.50 ±1 13.6	13.6
1a	9.2		m.s. m.s.	m.s.
2	9.5			
3	9.6			
4	10.1			
4a	10.4			
5	11.4 11.50 ±½ 11.8 m.s.			
6	12.2 12.20 00 12.2			
7	13.0 13.05 01 13.1			
8	13.2 13.30 ±1 13.4			
9	13.4 13.40 00 13.4			
10	f. 13.4?			
11	f. f.			
12	f			

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Friday April 7, 1916.

Scale R

Mc series 648 YELLOW

	Mc 10 594	Dm	10 20 +20.0	
			Diffr. Imm.	P.C.
	pc.1 pc.2		g h	pc.2
α	5.6 5.9		12.50 ±' 12.4 12.6	13.0
1	7.0 7.3		13.3 +f.	f.
2	7.0 7.3 B.		13.4 +f.	
3	7.9 8.2 8.2 8.20 00		n.s. n.s.	
3a	8.0 8.3 8.1 8.20 ±			
3b	9.1			
4	9.8			
5	11.1			
8	12.1 12.10 00 12.1			
6	12.2 12.20 00 12.2			
7	12.7 12.65 ±0 12.6			
9	13.5 13.50 00 13.5			
10	13.4 13.40 00 13.4			
11	12.5 12.60 ±' 12.7			

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Friday, April 7, 1916.

Scale R

Mc Series 678. YELLOW

Mc 10595 Dm 11.00 +20.0°

	sc.1	sc.2	sc.2	Diffr. Im. g h	D.C. sc.2
1	7.1	7.4		13.1 13.20 ±1 13.3	13.5
3	7.8	8.1	B.	tf. 13.5	14.0?
4	8.6	8.9	9.1	m.s. m.s.	m.s.
2	8.4	8.7	8.6		
2a		9.8			
5		11.1			
7		11.8	11.95 ±1 12.1		
6		12.1	12.15 ±0 12.2		
9		12.4	12.35 ±0 12.3		
8		12.2	12.25 ±1 12.3		
12		12.7	12.65 ±0 12.6		
11		13.4	13.40 ±0 13.4		
16		tf.	t.		

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1916phae.proj.10730

Saturday April 22, 1916.

Scale m. 10 — Remeasures of plates for Eros 1901.

	Mc 10235	Pole. Y!	Mc 10240. YELLOW
	sc.1 sc.2 sc.2		sc.1 sc.2 sc.2
12	6.6 7.1		6.6 7.1
13	7.5 7.6		7.1 7.4
14	7.8 7.9		7.1 7.1
15	8.2? 8.1		8.2 8.1
16	8.8 8.6		8.3 8.4?
17	8.1 8.1		8.4 8.1
18	9.1 9.1		9.1 9.1
19	9.3 9.5		9.2? 9.3.
20	9.9? nt. 9.9?		9.4 9.4
21	f.?		

Not certain of ident Annuit fmid chart

	Mc 10238	Eros 1901.	7 00 + 5.0
Mar 28 a	7.6? 7.7?		
b	8.1 8.1		
These images are poor, especially "a". c	8.3 8.4		
d	8.6 8.8		
f	8.8 8.9		

	Mc 10239	Eros 1901.
Eros. Mar. 29, 1901 a	8.4 8.4	
b	7.7 7.6	
c	8.3 8.2	
d	8.1 8.1	
f	9.1 9.3	

10.25

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1916phae_proj_10730

Saturday April 22, 1916.

Scale M. Remeasures of plates for Eros 1901.

10:35 MC 9847 Eros 1901. YELLOW

Miss O'Reilly

MC 10238 Eros 1901

March 28, 29

Images are not bright for

measure

Try Scale M

Measure ~~not~~ a b c d and f

for each sequence, together

with Polar Stars 12 and fainter

MC 9847 March 16

a, b, c, d, f, e

Measure with Ref. Seq Stars 3a, 4, 6, 5, 7

MC 10005 also

ge.

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1916phae.proj.10730

Saturday April 22, 1916.

Scale M. Remeasures of plates for Eros 1901.

10:35 MC9847 Eros 1901. YELLOW

Ref. Seq.		sc.1	sc.2	sc.2
	3a		7.7	7.6
	4		8.2	8.3
	6		8.1	8.8
	5		8.1	8.1
	1		9.1	9.9
Seq. Mar. 16.				
	a		9.9	9.9
	b		9.1	9.2
	c		9.1	9.1
	d		8.1	8.1
	f		9.9	10.0
very ~~ft~~	~~e~~		10.0?	10.1?

See also next page.

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1916phae.proj.10730

Saturday April 22, 1916.

Scale m. Remeasures of plates for Eros 1901.
MC10005

YELLOW

Ref. Leg.		sc.1	sc.2	sc.3
3a	6.9			7.1
4		7.7		7.8
6		8.7		8.7
5		8.4		8.4
7		9.8		9.8

Mar. 16.			
a		9.5	9.7
b		9.1	8.9
c		8.8	8.7
d		8.1	7.9
{		7.	7.
E		7.	7.

10.50

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1916phae.proj.10730

Friday, May 5, 1916.

Sheet no 318

Scale R 1:12 — Remeasures of DM with Carte sequence. — Alt. +.20 (see p. 136)

DM 1868 — Carte — 14 +65°

DM Seq. remeasured. (see 013:67)		sc.1	sc.2	Diff	Curve	Mag.	Diffr. Dm. sc.1	sc.2		Curve	Mag.	B.C. sc.2	Curve	Mag.
	001	B.					8.3	8.4	8.35 ±0	−0.71	−053 7.82	9.3	−1.50	−1.47 7.83
	002	4.4 4.1					8.5	8.1	8.60 ±1	−0.70		9.4	−1.46	−1.50
3 =	003	4.9 4.6		4 5.01	4.07	9 8.08	9.6	9.9	9.75 ±1	−1.28	−121 8.54	10.6	−1.96	−1.92 8.68
4 =	004	6.8 6.5		3.36	3.30	10.10	11.3	11.4	11.35 ±0	−1.60	−1.69 9.66	12.4	−2.49	−2.38 10.02
	005	6.8 6.8		3.09			11.4	11.5 7	11.55 ±1	−1.86		12.4	−2.40	
6 =	006	7.2 6.9		2.99	3.14	10 3 84	11.7	11.8	11.75 ±0	−1.85	−1.79 9.96	12.5	−2.40	−2.40 10.10
7 =	007	7.8 7.5	B.	2.77	2.94	10.74	12.2	12.2	12.20 00	−1.83	−1.90 10.30	12.9	−2.28	−2.48 10.42
	008	8.4 8.1	8.4 8.40 00	2.78			13.1	13.1 ~~12.9~~	13.10 00	−2.04		13.2 4	−2.69	
	009	9.2 8.9	9.5 9.35 ±1	2.48			13.5	13.1	13.30 00	−1.85		13.9?	n.f.	
	010		9.9	2.22			f	f?				n.s.		
	011		10.4	2.09										
	012		10.4	2.09										
	013		10.1	1.94										
	014		10.9	1.81										
15 =	015		11.3	1.80	1.87	13.17								
	016		11.3	2.25										
	017		11.8											
	018		12.1 12.15 ±0	12.2 1.70										
	019		12.4 12.45 01	12.5 1.70										
	020		13.1 13.10 00	13.1 1.83										

Carte Seq. —

		Curve
01 = 1	see above	
2		9.3 −1.47 7.83
03 = 3	see above.	
04 = 4	see above	

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Friday May 5, 1916.

Copied B 10:184

Scale R Remeasures cont. Abb. corr +.19

Corr for overlap +.01 Total corr +.20

MC 4868 Carte 14h +65°

			Cu	Magn			Cu	Magn			Cu	Magn
					g	h						
5	7.0 6.7		3.23	10,23	11.50±1 11.4	11.6	−1.74	9.76	12.6	−2.42	10.18	
6	7.5 7.21		3.04	p.135 {10.34 10,54	11.70°° 11.7	11.7	−1.78	{9.96 9.92	12.4	−2.37	{10.10 10.03	
7	7.7 7.4	B.	2.96	p.135 {10.74 10,66	12.35±0 12.3	12.4	−1.92	{10.30 10.43	12.8	−2.46	{10.42 10.34	
8	8.6 8.3	8.50±1 8.4	2.67	11.17	13.00±2 13.1	12.9	−1.95	11,05	13.1	−2.57	11.13	
9	8.9 8.6	9.05±2 9.2	2,50	11,55	13.45±0 13.4	13.5	−1.94	11,51	13.9	−2.60	11.30	
10		9.7	2.28	11,98	n.s.	f?			n.s			
11		10.6	2.01	12,61								
12		10.8	1.96	12,76								
13		10.9	1.94	12,84								
14		11.0	1.92	12,92								
15		11.2	1.87	p.135 {13.17 13,07								
16		11.4	1.84	13,24								
17		11.7	1.80	13,50								
18		12.1 12.15±0 12.2	1.77	13,92								
19		12.2 12.30±1 12.4	1.76	14,06								
20		13.2 13.05±2 12.9	1.74	14,79								
21												

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Friday May 5, 1916.

Scale R. Remeasures cont. alt. +.19

mc 7914. Carte + Dm. 14 +65°.

Dm seq. (See mt 9:30)				Diff	Curv Magn	g sc 2	h sc 2	Curv Magn	PC. sc 2		Curv Magn
1 =	01	4.0 3.7				8.5	8.4 8.45 10		9.4	-1.88	-177 7.63
	02	4.4 4.1				8.9	8.9 8.90 00		9.6	-1.81	-181 7.79
3 =	03	5.3 5.0		3.38	3.38 8.68	10.2	10.1 10.15 01		10.8	-2.12	-2.13 8.67
4 =	04	6.5 6.2		3.13	3.08 9.58	11.6	11.6 11.60 00	-1.92 -1.96 9.64	12.3	-2.55	-2.51 9.79
	05	6.7 6.4		2.99		11.8	11.9 11.85 01	-2.13	12.8?	poor -2.70	
6 =	06	7.0 6.7		3.04	2.94 9.94	12.1	12.1 12.10 00	-2.11 -2.02 10.08	12.9	-2.81	-2.62 10.28
7 =	01	7.7 7.4	B.	2.68	2.73 10.43	12.5	12.6 12.55 10	-2.05 -2.08 10.47	13.2	-2.44	-2.66 10.54
	08	8.4 8.1	8.4 8.40 00	2.42		13.4	13.5 13.45 01	-2.06	13.8?		
	09	9.2 8.9	9.4 9.30 11	2.27		14.0	*	-2.32	m.s.		
	010		9.9	2.04		mc. m.s.					
	011		10.3	2.04							
	012		10.3	2.11							
	013		10.1	1.99							
	014		11.1	1.62							
15 =	015		11.2 11.25 01 11.3	1.94	1.63 12.88						
	016		11.6 11.65 01 11.7	1.65							
	017		12.2 12.15 01 12.1	1.52							
	018		12.5 12.45 10 12.4	1.54							
	019		12.9 12.75 12 12.6	1.46							
	020		13.4 12.45 11 13.5	1.62							

Carte seq.:

01 =	1	see above		
	2	36	9.4	-1.77 7.63
03 =	3			
04 =	4			

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1916phae.proj.10730

Friday May 5, 1916.

Copied 13 10:184

Scale R

Remeasures cont.

add. corr. +.19

MC7914 Carlé W.O. 14 +65°

		Sc 1	Sc 2	Sc 3	Lin	Magn	g	h	Lin	Magn	P.C.	Lin	Magn
								11.75 01			Sc 2		
	5	6.4			3.03	9.73	11.8	11.7	-1.97	9.78	12.6	-2.62	9.98
06 =	6	7.0 6.7			2.94	p.137 9.94 9.94	12.8	12.25 10 12.2	-2.04	p.137 10.08 10.21	13.1	-2.64	10.28 10.46
07 =	7	7.7 7.4	B.		2.72	p. 137 10.43 10.42	12.4	12.45 01 +2.5	-2.06	p.137 10.47 10.39	13.4	-2.67	10.54 10.73
	8	8.5 8.2	8.45 10 8.4		2.51	10.96	13.5	13.50 01 13.5	-2.16	11.34	14.0?		
	9	9.0 8.7	9.05 01 9.1		2.32	11.37	13.9	~~13.5~~ 13.7	-2.18	11.72			
	10		9.6		2.15	11.75	m.s.	m.s.					
	11		10.6		1.83	12.43							
	12		10.8		1.77	12.57							
	13		11.2		1.65	12.85							
	14		11.2		1.65	12.85							
015 =	15		11.3		1.63	p.137 12.88 12.93							
	16		12.1		1.52	13.62							
	17		12.3		1.51	13.81							
	18		12.6	12.45 21 12.3	1.50	13.96							
	19		13.1	12.95 12 12.8	1.51	14.46							
	20		13.5	13.45 10 13.4	1.56	15.01							

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1916phae.proj.10730

Tuesday, May 23, 1916.

Scale α North Pole. Mc plates with Grating.

Mc 7696 YELLOW Reduction on sheets

		A sc.1	B sc.2	C		P.C. sc.A	sc.B	sc.C	
	1	B				3.2			3.2
ff pl.	2	.				.			
	3	B				5.1			5.1
	4	.				5.1			5.1
	5	.				5.1	5.8	5.8	5.75
	6	.				6.4	6.5	6.5	6.45
	7	.					7.0	t.p.	7.0
	8	.					7.8	7.6 7.8	7.70
	9	B	.					8.5	8.5
	10	2.1			2.1			8.6	
	11	3.3			3.3			9.1	
	12	4.1			4.1			9.1	
	13	5.1			5.1			def?	
	14	5.4			5.4			sep?	
	15	5.9	B.		5.9				
	16		6.1	6.1 B.	6.1				
	17		6.5	6.5 6.1	6.30				
	18		7.3	7.2 7.4	7.30				
	19		7.4	7.3 7.4	7.35				
	20		8.4	8.2 8.3	8.25				
	21		8.3	8.1 8.4	8.25				
	22		sc C. 8.6		8.6	8.60			
	23		8.6		8.6	8.60			
	24		8.6		8.7	8.65			
	25		9.1		9.1	9.10			
	26		9.5		9.5	9.50			
	27		10.1		10.1	10.10			

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Tuesday May 23, 1916.

Scale 2

Mc plates taken with Grating.

Mc 7696. North Pole. YELLOW

	scA	scB	scC.		scA	B	scC.	
1r	~~⊗~~							
2r	~~5.8~~				5.8			5.8
3r	·						7.1	7.1
4r	⊗		~~7.9~~				7.9	
5r	⊗						8.3	
6r	2.8			2.8			8.8	
7r	4.2	B.		4.2			+h.	
8r	5.1	5.3		5.20			10.5	
9r	5.9	6.0		5.95			m.s.	
10r		7.8 7.6	7.7	7.65				
11r		7.6 7.4	7.6	7.50				
12r			8.1	8.1				
2a	~~5.4~~				5.4			5.4
4a	~~⊗~~			4.2	~~⊗~~		9.9	9.9
5a		5.3 ~~5.3~~ ~~5.3~~		5.3				
6a	~~5.9~~	6.0	B.	6.0				
1a		8.5? 8.3?	8.1?	8.20?				
8a			+.	7				
9a			9.2	9.2				
10a			m.s.					
11a			m.s.					
12a			m.s.					

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Tuesday May 23, 1916.

Scale ∝ 9:-30 mc plate taken with grating. mc 7696. North Pole. YELLOW

		scA	scB	scC.			R.C. scC.
	014	5.6				5.6	
dbl.	015	5.9	7.8	7.6		5.9 7.6	
	017		6 4.8	6.8	6.9	6.85	
	018		7.2	7.1	6.9	7.00	
	019		6.5	6.5	6.9	6.70	
	020				7.9		
	021				8.1		
	022				8.4		
	023				8.5		
	024				8.7		
	025				9.5		
diffr. lm. 3 of blur on 026	026				sup?		
	027				9.5		
	028				9.8		
	029				9.8		
	030				?.		

a'	5.4	B.			6.4		10.2?
a''	~~5.9~~	6.8	6.8	6.3	6.7	6.60	
b		6.1	6.1	B		6.1	
c		7.4	7.3	7.3		7.30	
d				10.0		10.0	
e				8.9		8.9	

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1916phae.proj.10730

Tuesday May 23, 1916.

Scale α Mc plates taken with grating.

Mc 7696. North Orb - YELLOW

			O.C.		
			αA.	αB	αC.
+87	12	B		7.8	7.8
+87	15	.		7.9	7.9
+88	2	.		7.9	7.9
+88	115	.	8.5	8.3 8.4	8.35
+88	105	.		8.1	8.1
+88	90	.	9.1 R	8.5	8.5
+88	86	.	8.9	8.5 8.6	8.55
+88	80	B.	8.8	8.4 8.5	8.45

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Tuesday May 23, 1916.

Scale α. MC plate taken with grating.
MC 1696. Differ Images. YELLOW

	g			h			
	sc A	sc B	sc C	sc A	B	C.	
1	t/p.			g			.
2	ffff.			.			.
3	t/p.			t/p.			.
4	t/p.			g			.
5	5.1	5.4		5.2	5.3		5.25
6		6.2	B.		6.1	B.	6.15
7		6.6	6.3		6.7	6.5	6.52
8			7.4			7.6	7.50
9			8.4			8.5	8.45
10			8.5			8.5	8.50
11			9.1			9.0	9.05
12			8.6			9.1	8.85
13			10.2			10.1	10.15
14			10.3			10.2	10.25
15			10.4			10.5	10.45
16			7.			7.	7
2r	4.4			4.6			4.50
3r		6.7			6.5		6.60
4r		7.8	7.6 7.4		7.8	7.6 7.4	7.50
5r		8.1	7.9 8.2		8.1	7.9 8.0	8.00
6r		7	8.5			8.6	8.55
7r			9.1			9.2	9.15
8r			t/p.			10.5	10.5
9r			10.9			10.7	10.80
10r		n.s.	n.s			n.s.	.
11r			n.s			n.s.	.

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1916phae.proj.10730

Tuesday May 23, 1916.

Scale α. Mc. Clade taken with grating.

Mc 7696 North Pole. YELLOW

		g		h		
		sc A	sc B	sc C	sc A	B	sc C.	
2 R		t.f.			4.8			
~~3 R~~								
4 R			8.9		9.1		9.00
5 R			9.8		9.8		9.80
6 R			t.f.		10.5		10.5
7 R			ms		ms.		
0 14			10.5		10.5		10.50
0 15			†		†		
0 17			m.s.		m.s.		
a'			9.8		10.0		9.90
a²			†		†		
b			†		†		
c							
d							
e							
+87	12	7.2	7.1	7.1	7.3	7.2	7.3	7.25
+87	15	7.6	7.4	7.6	7.6	7.4	7.1	7.52
+88	2			7.4			7.5	7.45
+88	11.5			8.1			8.1	8.70
+88	10.5			7.6			7.9	7.65
+88	9.0			8.1			8.6	8.65
+88	8.6			t.f.			8.1	8.1
+88	8.0			8.1			8.6	8.65

11:00

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Tuesday May 23, 1916.

Scale ∝ North Pole. Mc Plate with Grating.

11:10 Mc 8055 YELLOW Reduction on sheets

		scA	scB	scC		Sc		
						scA	scB	scC
off pl.	1	.				off	.	
"	2	.				"	.	
	3					4.3		4.3
"	4	.				off	.	
	5	B				5.4		5.4
	6	.				6.6?		6.6?
	7	.				6.7 low		6.7
	8	.				7.4		7.4
	9	.	.			8.2		
	10	B				8.3		
	11	3.1			3.1	8.9		
	12	3.4	B.		3.4	9.1		
	13	4.6	4.4		4.6	9.9		
	14	5.1	5.0		5.05	10.4		
	15	5.6	5.4		5.50	10.5		
	16		6.1	6.1	6.1	m.s.		
	17		6.4	6.4 B.	6.4			
	18		7.3	7.2 7.2	7.20			
	19		7.5	7.4 7.8	7.60			
	20		7.8	7.6 7.9	7.75			
	21		8.2	8.0 8.1	8.05			
	22		8.4	8.2 8.4	8.30			
	23		8.7	8.3 8.4	8.45			
	24			8.6	8.6 8.60			
	25			8.9	9.1 9.00			
	26			8.9	9.2 9.05			

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1916phae.proj.10730

Tuesday May 23, 1916.

Sested. North Pole. Mc 8055 YELLOW Mc plate later with grating.

		scA	scB	scC	scC.	G.C. scA	B	scC	
24				9.6	9.7				9.65
28				10.1 ~~10.4~~	10.1				10.10
29				10.4	10.4				10.40
30				n.s.	n.s.				
2n						5.2	5.2	5.2	5.20
3n							6.4	6.4 6.5	6.45
4n	B.						7.8	7.6 7.7	7.65
5n	B.						8.1	7.9 8.1	8.00
6n	B.						+	8.7	8.7
7n		4.1			4.1			9.8	9.8
8n		4.6	5.0	5.0	4.80			10.1	10.1
9n		5.9	5.6	5.6	5.75				
10n			7.4	7.3	7.4 7.35				
11n			7.2	7.0	7.3 7.15				
12n			7.9	7.7	7.9 7.80				
2S	B.					5.1	5.2	5.2	5.15
4S		4.2	4.1		4.2		+	8.9	8.9
5S		+2.2?						9.6	9.6
6S		5.4	5.4	5.4	5.40			10.9?	10.9?
7S			7.8?	7.8?	7.8?				
8S				9.4?	9.4?				
9S				9.6	9.6				
10S				9.9	9.9				
11S				9.9	9.9				
12S				10.3?	10.3?				
13S				10.0	10.0				

too close to 1S.

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Tuesday May 23, 1916.

Scale α - North Pole. mc plate taken with grating.

mc 8055 YELLOW

	sc.A	sc B*	sc C.		P.C. sc C.
014	4.8			4.8	9.8
dbl. 015	5 8.4	7.3	7.2	5.4 / 7.2	10.2
017	6.21			6.2	w.s.
018			6.3	6.3	
019			6.2		
020			7.4		
021			7.6		
022			8.4		
023			8.3		
024			8.3		
025			8.6		
026			9.5		
027			9.6		
(may contain defect) 028					
029			t.p.		
030					

a'	4.9			4.9	t.p.
a²		6.4	6.4	6.4	
b	5.9	5.9	5.9	5.90	
c	~~6.8~~	6.9	6.9	6.9	
d		t.	9.8	9.8	
e		8.5	8.3 8.4	8.35	

(over)

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Tuesday May 23, 1916.

Scale 4 North Pole

Mc 8055 YELLOW

			sec B	sec C.	
+88	2	B.	187.6	1.7	7.45
+88	90	.	838.1	8.2	8.15
+88	105	'	1.5 7.4	1.4	7.40
+87	12	.	1.17.0	1.1	7.05
+87	15	.	1.67.4	1.1	7.55
+88	86	.	8.58.3	8.4	8.35
+88	80	.	8.8 8.4	8.5	8.45
+88	115	B.	8.9 8.5	8.6	8.55

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Tuesday May 23, 1916.

Scale 2 North Pole. Mc plate taken with grating.

		Mc 8055			YELLOW			
		9			2			
off pl	1	.			.			
	2	.			.			
	3	tf.			tf.			
	4	.			.			
	5	4.6	4.2 R		4.6	4.2R		4.60
	6	5.6	5.5 5.5		5.6	5.5 5.5		5.55
	7		tf.	B.		6.1 6.1	B	6.1
	8		7.4 7.3	7.2		7.2 7.1	7.1	7.18
	9		7.8 7.6	7.9		8.1 7.9	7.9	7.82
	10		8.2 8.0	8.4		8.4 8.2	8.2	8.20
	11			8.7			8.8	8.75
	12			8.8			8.8	8.80
	13			9.1			9.1	9.10
	14			9.5			9.4	9.45
	15			10.6			10.6	10.60
	16			7			7.	
	2r	4.2	4.1 R		4.1	4.0 R		4.15
	3r		6.1 6.1	B		5.9 5.9	B.	6.00
	4r		6.9 6.9	6.9		7.1 7.0	6.9	6.92
	5r			7.6			7.6	7.60
	6r			8.1			8.2	8.15
	7r			8.7			8.8	8.75
	8r			tf.			9.2	9.2
	9r			10.5			10.6	10.55
	10r			~~tf~~ ms			m.s.	.

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1916phae.proj.10730

Tuesday May 23, 1916.

Scale 2 North Pole. Mc plate
Mc8055 YELLOW

2a	+f.		4.1	4.1
3a		8.9	8.9	8.90
5a		8.9	8.8	8.85
6a		9.8	9.9	9.85
7a		m.s.	m.s.	.
8a		.	.	.
9a		.	.	.
014		9.9	9.8	9.85
015		10.4	10.4	10.40
017		+	+	
a'		9.7	9.9	9.80
a²		m.s.	m.s.	.
f		m.s.	m.s.	.
c				
+88 80		+f.	8.4	8.4
86		+f.	8.2	8.2
115	8.8 8.4	8.4	8.8 8.4	8.4 8.40
+87° 15.	7.2 7.1	7.2	7.2 7.1	7.1 7.12
+88 20	6.8 6.8	7.1	6.9 6.9	7.2 7.10
+87 12	6.8 6.8	6.7	6.8 6.8	5.8 6.8 6.78
+88 90	8.3 8.1	8.1	8.2 8.0	8.2 8.10
105	7.3 7.2	7.2	7.2 7.1	7.1 7.15

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Wednesday May 24, 1916.

Salem — North Pole. mc plates taken with Grating. — Reduction on sheets

9:55 — Mc 9425 — YELLOW

				P.C.		
	sc.1	sc.2	mean	sc.1	sc.2	mean
1	B.			3.8	4.0	4.0
2	Hfpl.			Hfpl.	.	.
3	B			5.3	5.5 6	5.55 ±0
4	.			5.5	5.7 5.6	5.65 10
5	.			6.1	6.3 6.4	6.35 ±0
6	.				7.3	
7	B				7.9	
8	1.7	1.9	1.9		8.2	
9	3.1	3.3	3.3		8.9	
10	3.6	3.8 B.	3.8		9.1	
11	4.4	4.6 5.0	4.80 ±2		9.6	
12	4.7	4.9 5.1	5.00 ±1		9.7	
13	5.1	5.9 6.0	5.95 ±0		n.s.	
14	5.8	6.0 6.1	6.05 01			
15	6.5	6.7 6.9	6.80 ±1			
16		7.2	7.2			
17		7.5	7.5			
18		8.1	8.1			
19		8.5	8.5			
20		8.6	8.6			
21		9.1	9.1			
22		9.2	9.2			
23		9.1	9.1 9.10 00			
24		9.4?	from 9.4 from 9.40? 00			
25		9.8	9.6 9.70 1±			
26		9.9	9.9 9.90 00			
27		10.1?	n.s			

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1916phae.proj.10730

Wednesday May 24, 1916.

Scale M North Pole. Plates taken with 4 grating.

Mc9425 YELLOW

		sc.1	sc.2	Mean		P.C. sc.1	sc.2	Mean	
	1N								
	2N	B.				6.3	6.5 6.5	6.50	00
bright	3N	1.5?	1.7?	1.7?		8.1			
	4N	2.5	2.7	2.7		8.6			
	5N	3.1	3.3	B. 3.3		9.1			
	6N	3.1	3.9	4.0 3.95	10	9.3			
	7N	4.9	5.1	5.1 5.10	00	10.0? very ft			
	8N	6.1	6.3	6.2 6.25	10	m.s.			
	9N	6.7	6.9	7.1 7.00	11				
	10N			8.6 8.6					
	11N			8.5 8.5					
	12N			9.1 9.1					
	2S	B.		B.		6.1	6.3 6.3	6.30	00
	4S	5.1	5.3	5.2 5.25	10	10.0? ft.			
	5S	5.4	5.6	5.6 5.60	00	m.s.			
	6S	6.5	6.7	6.7 6.70	00				
	7S			8.3 8.3					
	8S			9.8 9.8					
	9S			9.9 ~~9.9~~ 9.9					
	10S			m.s.					
	11S								
	12S								

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Wednesday May 24, 1916.

Scale — North Pole. Plates taken with Grating.

mcq475 YELLOW

		sc.1	sc.2	mean		B.C. sc.1	B.C. sc.2
	014	6.0	6.2 6.1	6.15	01		n.s.
dle.	015	6.5	6.7 6.8 8.7	6.75 8.7	10		
	017		7.7				
	018		7.5				
	019		7.2				
	020		8.3				
	021		8.6				
	022		8.4 very sharp.				
	023		9.1				
	024		9.1				
	025		9.6				
	026		t.p.				
	027		n.s.				
	028		n.s.				
	029						
	030						
	a'	5.6	5.8 5.8	5.80	00		n.s.
	a^2		7.6				
	b		7.4				
	c		8.1				
	d		7.7				
	e		7.9				

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Wednesday May 24, 1916.

Scale M. North Pole. Plate taken with grating.

Mc9425 YELLOW

				O.C.
		sc.1	sc.2	sc.2
+87	15	B.		8.4
+88	80	th.		9.3
	86	*th.		9.6
	115	3.9	4.1	9.4
+88	2	2.1	2.3	8.2
+87	12	1.7	1.9	8.1
+88	90	4.4	4.6	9.4
	105	2.1	2.9	8.6

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Wednesday May 24, 1916.

Seaton. North Pole. Plate taken with grating
Mc 9425 YELLOW Diffr. Images.

	g sc.1	g sc.2	h sc.1	h sc.2	mean	
1	th.				.	
2	th. off				.	
3	th.				.	
4	.				.	
5	5.9	6.1	5.1	5.9	6.00	1
6		7.1		7.1	7.10	00
7		7.9		7.9	7.90	00
8		8.1		8.1	8.10	00
9		8.8		8.9	8.85	01
10		9.2		9.1	9.15	01
11		9.5		9.4	9.45	10
12		th.		10.0	10.0	a
13		t.		t.		
14		m.s.		m.s.		
15		m.s.				
16						
2r	5.4	5.6	5.4	5.6	5.60	00
3r		7.6		7.6	7.60	00
4r		8.4		8.3	8.35	01
5r		8.7		8.7	8.70	00
6r		9.1		9.2	9.15	10
7r		9.6		9.9	9.75	21
8r		10.1		t.	10.1	a
9r		m.s.		m.s.		
10r		m.s.		m.s.		
11r						

we unit.

4:12

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1916phae.proj.10730

Wednesday May 24. 1916.

Scale m. North Pole. Mc plate with grating.

Mc 9475 YELLOW Diffr. Inw.

	g sc.1	g sc.2	h sc.1	h sc.2	Mean	
2a	5.9	6.1	5.1	5.9	6.00	1 ±
3a						
4a		98? v.f.		9.5 v.f.	9.65?	2 ±
5a		f.		9.9	9.9	a
6a		f.		f		
1p		m.s.		m.s.		
014		10.1		10.1	10.10	00
015		m.s.		m.s.		
017		m.s.				
a'		10.1		f.	10.1	a
a²		m.s.		m.s.		
f		m.s.		m.s.		
c		m.s.				
d		m.s.				
+87 12		8.1		7.9	8.00	1 ±
+88 2		8.1		8.2	8.15	10
+88 90		9.5		9.4	9.45	10
105		fp		8.6	8.6	a
+87 15		8.2		8.1	8.15	01
+88 80		sup'r def?		9.6	9.6	a
86		9.3		9.3	9.30	00
115		fp		9.3	9.3	a

11:12

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1916phae.proj.10730

Thursday May 25, 1916.

Scale m — North Pole. — Mc plate taken with Grating. — Reduction on sheets

10:15 — Mc 9666. — YELLOW

				D.C.		
	sc.1	sc.2	Mean	sc.1	sc.2	Mean
1	.		.	3.0	3.2	3.2
2	Hfd.		.	Hfd.		.
3	.		.	4.3	4.5 4.5	4.50 00
4	.		.	4.6	4.8 5.1	4.95 ±1
5	B.		.	5.6	5.8 5.6	5.70 1±
6			.	6.2	6.4 6.6	6.50 ±1
7			.	~~7.9~~	7.21	
8	B.		.		7.9	
9	2.8	3.0	3.0		~~8.7~~	
10	3.0	3.2	3.2		8.9	
11	3.8	4.0 B.	4.0		9.7	
12	4.1	4.3 4.1	4.20 1±		9.87	
13	5.2	5.4 5.5	5.45 01		10.0? ff.	
14	5.5	5.7 5.8	5.75 ±0		m.s.	
15	6.2	6.4 6.4	6.40 00			
16	6.9	7.1 7.1	7.10 00			
17		7.3	7.3			
18		7.9	7.9			
19		8.1	8.1			
20		8.5	8.5			
21		8.7	8.7			
22		9.1 9.2	9.15 ±0			
23	Im large + hazy.	t.f. t.f.	.			
24		9.3 9.4	9.35 ±0			
25		9.9 9.6	9.75 1±			
26		10.0 9.9	9.95 01			
27		m.s. m.s.				

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Thursday May 25, 1916.

Scale m North Pole. Mc plate taken with Grating.

Mc 9666. YELLOW

				P.C.	
	sc.1	sc.2	Mean	sc.1 sc.2	
2r	B.			5.2 5.4 5.6	5.50 ±1
3r	B			7.3	
4r	1.6	1.8	1.8	8.1	
5r	2.6	2.8	2.8	8.5	
6r	3.5	3.7 B.	3.7	9.1	
1p	4.2	4.4 4.4	4.40 00	9.8	
8r	5.2	5.4 5.5	5.45 01	n.s.	
9r	6.3	6.5 6.4	6.45 10		
10r		7.2	7.2		
11r		8.3	8.3		
12r		8.5	8.5		
2s	B.	B.		5.3 5.5 5.4	5.45 10
3s					
4p	4.1	4.3 4.5	4.40 11		
5p	4.8	5.0 5.3	5.15 21		
6s	5.7	5.9 6.0	5.95 ±0		
1p		8.1	8.1		
8s		9.5	9.5		
9s		9.5	9.8		
10s		n.s.			
11s		n.s.			
12s		n.s.			

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Thursday May 25, 1916.

Scale m North Pole. Mc plate taken with Grating.

Mc 9666. YELLOW

		sc.1	sc.2		mean	P.C. sc.1	sc.2
	014	5.6	5.8 5.6		5.70 11		
dbl	015	6.1	6.3 6.3 8.3		6.30 00 8.3		
	017		7.3	7.4	7.35 10		
	018		7.3	7.5	7.40 11		
	019		7.2	7.3	7.25 01		
	020		8.1	8.2	8.15 10		
	021		8.5	8.6	8.55 10		
	022		9.1	8.8	8.95 12		
	023		8.9	8.9	8.90 00		
	024		9.1	9.1	9.10 00		
	025		9.6	9.8	9.70 16		
	026		9.8	9.7	9.75 01		
	027		9.4?	9.4	9.40? 00		
	028		m.s.	m.s.			
	029		m.s.	m.s.			
	a'	5.3	5.5 5.3		5.40 11	10.1?	9.4
	a''		7.6	7.7	7.65 01		
	b	6.9	7.1 7.1		7.10 00		
	c		8.1	7.6	7.85 32		
	d		m.s.	m.s. ~~8.8~~	m.s.		
	e		9.2	9.2 ~~9.6~~	m.s. 9.20 00		

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Thursday May 25, 1916.

Scale M. North Pole. Plate taken with Grating

Mc 9666. YELLOW

		sc.1	sc.2	P.C. sc.1	sc.2
+87	12	1.3	1.5	7.7	
+88	2	1.8	2.0	8.1	
+88	90	3.2	3.4	9.1	
	105	2.0	2.2	8.1	
+87	15	B.		8.0	
+88	80	3.1?	3.3?	9.1	
	86	3.0?	3.2?	8.9	
	115	3.0	3.2	9.1	

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Thursday May 25, 1916.

Scale m North Pole Plate taken with Grating.

Mc. 9666 YELLOW Diffr. Inv.

		g sc.1	g sc.2	h sc.1	h sc.2	Means
Edge	1	th.		th.		.
	2	.		.		.
"	3	th.		th.		.
"	4	th.		th.		.
	5	5.0	5.2	5.1	5.3	5.25 01
	6	6.1	6.3	6.2	6.4	6.35 ± 0
	7		7.2		7.2	7.20 00
	8		7.9		7.8	7.85 ± 0
	9		9.1		8.1	8.90 2 ±
	10		9.2		9.1	9.15 0 ±
	11		9.8		9.7	9.75 0 ±
	12		9.8		10.0	9.90 ± 1
	13		m.s.		m.s.	
	14		m.s.		m.s.	
	15					
	16					
	17					
	2r	4.6	4.8	4.6	4.8	4.80 00
	3r		7.2		7.1	7.15 0 ±
	4r		8.1		8.1	8.10 00
	5r		8.4		8.4	8.40 00
	6r		9.1		9.1	9.10 00
	7r		9.6		9.6	9.60 00
	8r		m.s.		m.s	.
	9r		m.s.		m.s.	.
	10r					

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Thursday May 25. 1916.

Scale m. North Pole Plate taken with Grating

Mc9666 cont YELLOW diff. Im.

	g		h		
	sc.1	sc.2	sc.1	sc.2	Mean
2a	4.9	5.1	4.9	5.1	5.10 00
3a					
4a	9.5		9.5		9.50 00
5a	?		10.1?	ff	10.1? a
6a	m.s.		m.s.		
7a	m.s.		m.s.		
8a					
9a					
014	m.s.		m.s.		
015	m.s.		m.s.		
017					
a'	m.s.		m.s.		
a²					
b					
+87 12	7.6		7.5		7.55 01
+88 2	8.1		7.9		8.00 11
+88 90	9.3		9.1		9.20 11
105	8.1		sup.? poor		8.1 a.
+87 +88 15	8.1		8.1		8.10 00
80	9.2		9.1		9.15 01
86	9.1		9.1		9.10 00
115	8.9		th.		8.9 a.

11:16

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1916phae.proj.10730

Friday, May 26, 1916.

Scale M — North Pole — Plate taken with Grating.

9:35 — Mc 10745 — YELLOW. — Reductions on sheets

		g sc.1	g sc.2	h sc.1	h sc.2	g Mean	h Mean	P.C. sc.1	P.C. sc.2	P.C. Mean
	1	.		off	th.	.		off	th.	.
	2	.		off.	.	.		off	fl	.
	3	B		2.8?	.	.		4.2	4.4	4.4
Edge.	4	B.		th.	.	.		4.8	5.0	5.0
	5	B.		4.4	4.6	4.2 4.4	4.50 1±	5.2	5.4 5.6	5.50 ±1
	6	.		5.3	5.5 5.5	5.1 5.3	5.43 11±	6.1	6.3 6.4	6.35 ±0
	7	B		6.2	6.4 6.2	5.8 6.0	6.20 20±	6.4	6.6 6.8	6.70 ±1
	8	1.0	1.2	1.2		7.2	7.1 7.15 0±	7.5		
	9	2.1	2.3	2.3		7.9	7.9 7.90 00	8.1		
	10	2.1	2.3	2.3		8.1	8.1 8.10 00	8.4		
	11	3.0	3.2	3.2		8.4?	8.6 8.6 (3) a	8.8		
	12	3.4	3.6 B.	3.6		8.6	8.6 8.60 00	9.1		
	13	4.2	4.4 4.4	4.40 00		9.2	9.4 9.30 ±1	9.5		
	14	4.4	4.6 4.7	4.65 01		9.5 from	9.4 9.45 10	9.9? from		
	15	5.1	5.3 5.5	5.40 ±1		10.0?	m.s. 10.0? a.	m.s.		
	16	5.9	6.1 6.1	6.10 00		m.s.	m.s.			
	17	6.1	6.3 ~~6.4~~ 7.1	6.20 1±						
	18	6.8	7.0 6.9	6.95 0±						
	19		7.1	7.1						
	20		7.6	7.6						
	21		7.6 from	7.6 8						
	22		8.1	8.1						
	23		8.2	8.2 from	8.20 00					
	24		8.6 v.f.	9.1 v.f.	8.85 ±3					
	25		8.8? v.f.	9.0 v.f.	8.90 ±1					
Im. very large + hazy	26		th.	~~9.0~~ th.	.					
Faintly seen	27		9.5	9.6	9.55 00					

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Friday May 26th 1916

Scale M. North Pole. Plate taken with Grating.

mc 10 7 45 YELLOW

	Diffr Inn. sc.1	sc.2	sc.1 (g)	sc.2 (h)	Mean	Dc. sc.1	sc.2	Mean
2R	3.9	4.1	3.9	4.1	4.10 oo	5.2	5.4 5.3	5.35 o1
3R	6.1	6.3	5.9	6.1	6.20 11	6.2	6.4 6.4	6.40 oo
4R	1.2	1.4			1.4			
5R	1.9	2.1			2.1			
6R	2.3	2.5			2.5			
7R	3.6	3.8 B.			3.8			
8R	4.6	4.8 4.9			4.85 01			
9R	5.2	5.4 5.4			5.40 oo			
10R		7.3			7.3			
11R		7.4			7.4			
12R		7.9? poor.			7.9?			
~~13R~~								
2A	B.							
4A	3.1	3.9 B.			3.9			
5A	4.1	4.3 4.1			4.20 11			
6A		5.3			5.3			
1A		7.8?			7.8?			
8A		t.p.						
9A		8.9			8.9			
10A		n.s.						
11A		n.s.						
12A		n.s.						

	Diffr Inn. sc.1	sc.2	sc.1 (g)	sc.2 (h)	Mean	Dc. sc.1	sc.2	Mean
2A	3.1	3.9	3.8	4.0	3.95 11	5.1	5.3 5.4	5.35 11
4A	8.5		8.5		8.50 oo			9.2
5A	8	8.1	7.9	8.0	8.00 11			9.3
6A	t.p.		9.4? t.p.		9.4? a			n.s.
1A	n.s.		n.s.					

close to 5s.

+ w. units. O. Sept 11, 1917.

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1916phae.proj.10730

Friday May 26, 1916.

Scale m. North Pole. Plate taken with Grating.

MC10745 YELLOW

	sc.1	sc.2	sc.3	mean	g sc.1	g sc.2	h sc.1	h sc.2	mean	
014	4.8	5.0	4.8	4.90 ±	9.3	9.5			9.40 ± 1	m.s.
015	5.2	5.4	5.6? 7.3	5.50 ± 1 7.3	9.8	. (almost sup.)			9.8 .	m.s.
017	6.1	6.3	6.4	6.35 ± 0	m.s.	m.s.				
018	6.3	6.5	6.1	6.60 ± 1						
019	6.1	6.3	6.1	6.20 ±						
020			7.3	7.3						
021			7.8	7.8						
022			7.9	7.9						
023			t.p.	.						
024	~~0.5~~ m.s.		8.1	8.1						
(meas 021 line) 025			~~4~~ 8.5? too	8.5?						
026			8.9	8.9						
027			8.9	8.9						
028			9.4?	9.4?						
a'	4.6	4.8	4.9	4.85 01	9.4	9.4			9.40 00	9.9
a²	6.4	6.6	6.5	6.55 0 !	m.s.	m.s.				m.s.
b	5.8	6.0	5.9	5.95 0 !						
c	6.8	7.0	7 6.1	7.05 0 !						
d			9.1	9.1						
e			8.2	8.2						
029			t.p.							
030										

see next page.

Faint plate and faint diffr lns. are poor, and difficult to compare with scale.

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1916phae.proj.10730

Friday May 26, 1916.

Scale m. North Pole. Plate taken with Grating.

Mc 10745 YELLOW

		pc.1	pc.2	so.1	sc.2	so.1	sc.2	Mean	pc.1	pc.2
									O.C.	
+87	12	1.1	1.3	7.1		7.1		7.10 00	7.1	
+88	2	B		7.3		7.1		7.20 11	7.8	
	90	2.4	2.6	8.2		8.1		8.15 01	8.2	
	105	B		7.5		7.6		7.55 10	7.8	
+87	15	B.		7.4		7.3		7.35 01	7.1	
+88	80	B		8.1	phos	8.1		8.1 ⊙ a	8.5	
	86	B.		8.1		7.8		7.95 12	8.2	
	115	2.4	2.6	8.1	m.h.	8.2		8.2 ① a	8.4	

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Saturday May 27, 1917

Scale m. North Pole. Plate taken with Grating.

8:57 mc to 8471 YELLOW Reduction on sheets

		sc.1	sc.2	sc.3	Mean	Diff. 1 m. sc.1	sc.2	sc.1	sc.2	Mean	Pc. sc.1	sc.2	
Off plate.	1	.			.	off	.		.	.	off		
	2	.			.	off	.		.	.	off		
	3	B.			.	off	.		.	.	5.1	5.3	5.3
	4	.			.	off	.		.	.	off		
	5	B.			.	5.3	5.5	5.4	5.6	5.55 ±0	6.1	6.3 6.4	6.35 ±0
	6	B.			.	6.3	6.5 6.5		6.5	6.50 00	6.9	7.1 7.1	7.10 00
	7	B.			.		7.4		7.3	7.35 01		7.6	
	8	2.0	2.2		2.2		7.8		8.1	7.95 ±1		8.1	
	9	3.1	3.3		3.3		8.9		8.1	8.80 ±1		9.0	
	10	3.4	3.6	B.	3.6		9.1		8.1	8.90 22		9.1	
	11	4.1	4.3	4.6	4.45 ±2		9.3		9.3	9.30 00		9.4	
	12	4.6	4.8	5.1	4.95 ±1		9.5		9.5	9.50 00		9.9	
	13	5.2	5.4	5.6	5.50 ±1		9.8 from		10.0 from	9.90 9 ±1		m.s.	
	14	5.5	5.7	5.9	5.80 ±1		10.1?		f.	10.1? a.		m.s.	
	15	6.4	6.6	6.6	6.60 00		m.s.		m.s.				
	16		7.2		7.2								
	17		7.3		7.3								
	18		8.1		8.1								
	19		8.4		8.4								
	20		8.8		8.8								
	21		8.6	8.8	8.70 ±1								
	22		9.2	9.1	9.10 00								
	23		9.2	9.1	9.15 01								
	24		9.3	9.4	9.35 ±0								
	25		9.7	9.9	9.80 ±1								
	26		9.8	9.8	9.80 00								
	27		10.0	10.0	10.00 00								

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Saturday May 27, 1916.

Scale m. North Pole. Plate taken with Grating

Mc8471 YELLOW

	sc.1	sc.2	sc.3	Mean	Diffs. Inv. g sc.1	sc.2	h sc.1	sc.2	Mean	DC. sc.1	sc.2
1r	B.			.	+.p.		+.p.			4.6	4.8
2r	B.			.	5.1	5.3	5.1	5.3	5.30 00	6.1	6.3
3r	B.			.	7.4		7.4		7.40 00	7.6	
4r	B.			.	7.8		8.1		7.95 ± 1	8.4	
5r	2.9	3.1		3.1	8.4		8.6		8.50 ± 1	8.9	
6r	3.8	4.0	B.	4.0	8.8		9.21		9.00 ± 2	9.21	
7r	4.5	4.7	4.8	4.75 ± 0	9.5		9.4		9.45 10	10.0	
8r	5.1	5.9	6.1	6.00 ± 1	9.8		10.0		9.90 ± 1	m.s.	
9r	6.21	6.4	6.6	6.50 ± 1	?		?				
10r		8.1		8.1	n.s.		n.s.				
11r		8.1		8.1							
12r		8.8		8.8							
2s	B.	B.		.	5.3	5.5	5.1	5.3	5.40 ±	4.6	4.8
4s	4.7	4.9	4.9	4.90 00	9.9		9.4		9.65 3 ±	10.0?	ff.
5s	5.1	5.3	5.4	5.35 ± 0	nearly 3 sep.		9.9		9.9 . 2 =	m.s.	
6s	6.1	6.3	6.3	6.30 00	n.s.		n.s.				
7s		8.1		8.1							
8s		9.6		9.6							
(only trace of 9s seen) 9s		.									
10s		n.s.									
11s		.									
12s		.									
13s		n.s.									
14s		.									

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Saturday May 27, 1916.

Scale m. North Pole. Plate taken with Grating

Mc 8471 cont. YELLOW

		sc.1	sc.2	sc.3	Mean	Diffr. Im g sc.2	Diffr. Im h sc.2	Cc. sc.1	Cc. sc.2
	014	5.9	6.1	6.0	6.05 1.0	f	f.		m.s.
dll.	015	6.3	6.5	6.6 8.5	6.55 ± 0 8.5	nc	m.s.		
	017			7.3					
	018			7.6					
	019			7.3					
	020			8.3					
	021			8.4					
	022			8.9					
	023			9.1					
	024			9.2					
	025			9.6					
	026			10.0					
	027			f.					
	028			m.s.					
	a'	5.7	5.9	5.6	5.75 1.2	f	f.		m.s.
	a^2			7.6	7.6				
	b	6.7	6.9	6.9	6.90 .00				
	c			8.1					
	d			9.8					
	e			9.3					

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Saturday May 27, 1916.

Scale m North Pole. Plate taken with Grating.

mc 8471. YELLOW

							P.C.
		sc.1	sc.2	sc.1	sc.2	Mean	sc.2
+87	12	1.9	2.1		7.8	7.80 ∞	8.1
+88	2	2.3	2.5		8.1	8.10 ∞	8.2
+88	90	3.3	3.5		8.8	8.80 ∞	9.3
+88	105	2.4	2.6		8.1	8.15 ± ∞	8.5
+87	15	t.p.	'		8.1	8.15 ± ∞	8.2
+88	80	t.p.	'		9.1	9.10 ∞	9.1
	86	t.p.	.		9.1	8.9 9.00 ±	9.1
	115	3.5	3.7		9.2	9.1 9.15 ∞ ±	9.3

9.55

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1916phae_proj_10730

Sat Monday May 29, 1916.

Scale	North Pole. Plate taken with Grating.
	mc9753.
	sc.1
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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Monday, May 29, 1916.

Scale — North Pole. Plate taken with Grating.

Mc 9753

sc.1 sc2

21
28
1N
2N
3N
4N
5N
6N
7N
8N
9N
10N
11N
12N
2S
4S
5S
6S
7S
8S
9S
10S
11S
12S
13S
14S

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1916phae_proj_10730

Monday, May 29, 1916.

Scale	North Pole	Plate taken with Grating.		
	MC9753			
	sc.1 sc.2			
014				
015				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				
027				
028				
029				
030				
a'				
a2				
b				
c				
d				
e				

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1916phae.proj.10730

Monday May 29, 1916.

Scale North Pole. Plate taken with Grating.

Mc.

	sc.1	sc.2
+87	12	
+88	2	
	90	
	105	
+88	15	
+88	80	
	86	
	115	

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1916phae_proj_10730

Wednesday
~~Tuesday~~ May 31, 1916

Scale M Measures of yellow plate for Praesepe.

Mc 8050 YELLOW

				P.C.	
	sc.1	sc.2		sc.1	sc.2
a	.			5.5	5.7 5.6 5.65
b	.			5.8	6.0 6.1 6.05
c	.			6.1	6.3 6.4 6.35
d	.			6.1	6.2 6.2 6.20
e	.			5.6	5.8 5.8 5.80
f	.			7.3	
g	.			7.4	
h	.				
h'	B.			Second exp.? sup. on h'?	
h^2	B			7.4	
h^3	B			7.9	
h^4	2.3			8.1	
h^5	3.1	3.3	3.3	8.3? very close to brt star	
k'	3.6	3.8 B.	3.8	8.6	
k^2	4.1	4.3 4.1	4.20	9.4	
k^3 (May close to k' of 2nd exp.)	4.1	4.3 4.0	4.15	9.2	
l	4.1	4.3 4.2	4.25	9.2	
m	4.3	4.5 4.6	4.55	9.6	
m'	4.1	4.3 $\frac{1}{2}$4.2	4.25	9.2	
m^2	4.9	5.1 5.1	5.10	m.s.	
o	4.8	5.0 5.1	5.05	m.s.	
p	4.4	4.6 4.2	4.40	9.5	
q	$\frac{1}{2}$5.9	5.1 4.8	4.95	m.s.	
r	5.2	5.4 5.6	5.50		
s	5.9	6.1 6.2	6.05		
t	6.6	6.8 6.8	6.80		

h' on plate = h^5 on chart. Desig^n h^5 used

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1916phae.proj.10730

Wednesday May 31, 1916.

Scale M Plate later with Grating.

mc 8050 YELLOW Praesepe.

		sc.1	sc.2	sc.2		B.C. sc.1	B.C. sc.2
	u		7.3	7.1	7.20		
	w	6.16.9	7.0		6.95		
	z		7.4	7.6	7.50		
	α		8.2	8.1	8.15		
	β		8.5	8.1	8.60		
only trace	γ		~~10.0~~ 2 w.s.	8.6	8.6		
	δ		9.5	9.6	9.55	m.s.	
	x B.					7.1	
	y B.					6.16.3	6.25
	ε		9.3	9.5	9.40	w.s.	
	+						
	+20	2178 B				6.06.2	6.30
	+21	1909				4.14.3 B.	4.20
	+18	2027				~~5.8~~ 3.4 w.s. B.	3.30
(reject? too far?)	+21	1895				3.8 4.0 B.	3.90
	+20	2109				4.24.4	4.25
	+19	2027				5.15.9	5.90
	+20	2133 B.				8.1	
h' =	+20	2150				eq.	
	+20	2152				7.1	
		2153				7.4	
		2158				5.55.7	5.80
		2159				6.06.2	6.15
		2185 B				6.36.5	6.5

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1916phae.proj.10730

Wednesday May 31, 1916.

Scale m. Plate taken with Grating.
Mc 8050 Praesepe. YELLOW

		sc.1	sc.2	sc.3	
+20 2125	B	1.07	1.21		7.20
2123	B		1.3	1.3	7.30
21321	B		1.21	1.4	7.30
+19 2083	B.		1.1	1.6	7.65

See next page for diffr. Images.

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1916phae.proj.10730

Wednesday May 31.1916

Scale m Plate taken with Grating

MC 8050 Praesepe YELLOW

	q sec.1	q sec.2	h sec.1	h sec.2	
a	4.9	5.1	4.8	5.0	5.05 10
b	5.2	5.4	5.1	5.3	5.35 01
c	5.6	5.8	5.7	5.9	5.85 01
d	5.3	5.5	5.7	5.9	5.70 22
e (Very close to bri. star.)	5.3	5.5			5.5 a? R 7.50 11 R
f	7.4		7.5 close to bri. star.		
g	7.1		7.1		7.10 00
h'	5.4	5.6	5.1	5.3 4 w.s.	5.45 21
h²	7.2		7.2		7.20 00
h³	7.1		7.1		7.70 00
h⁴	8.2		8.1		8.15 01
h⁵	8	8.4	8.6		8.50 11
k'	8.6		9.1		8.85 23
k²	8.8? v.f.		8.6		8.70 (2)? a
k³	8.6		8.7		8.65 01
l	9.1		9.3		9.20 11
m	9.4		9.4		9.40 00
n'	t.p.		9.2		9.2 g a
n²	9.6? poor		9.1		9.1 (5)? a
o	9.2? v.f.		9.2		9.2 (0)? a
p	9.7		9.4		9.55 12
q	9.6? v.f.		9.4		9.4 (2)? a
r	t.p.		t.p.		g
s	m.s.		m.s.		m.s.
t	m.s.		m.s.		m.s.
x	7.4		7.4		7.40 00
y	5.4	5.6	5.3	5.5	5.55 01

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1916phae.proj.10730

Wednesday May 31, 1916.

Scale m. Plate taken with grating
MC 8050 Praesepe YELLOW

		g sc.1	sc.2	h sc.1	sc.2		
+20	2178	5.2	5.5	5.3	5.6	5.60	1 1
+21	1909	6.1	6.3	6.3	6.5	640	1 1
+18	2027	B.		B.		B	
+21	1895	2.0	2.2	B.		2.2	a b
+20	2109	3.0	3.2	3.0	3.2	3.20	0 0
+19	2027	5.3	5.5	5.1	5.3	5.40	1 1
+20	2133		1.4	.	1.6	7.50	1 1
h' = +20	2150	.		5.1	5.3	5.3	. a
	2152	6.4	6.6	.		6.6	a . R
	2158	~~4.8~~ 5.5	5.0 w.s.	4.9	5.1	5.05	0 1
	2159	~~5.6~~ 4.4	5.8	5.4	5.6	5.70	1 1
	2185	5.6	5.8	5.4	5.6	5.70	1 1
	2125	6.6	6.8	6.5	6.7	6.75	0 1
	2123	6.8	7.0	6.6	6.8	6.90	1 1
	2132		1.2		1.3	7.25	0 1
+19	2083		1.3		1.5	7.40	1 1
	2153		nearly sup.		1.0	7.0	. a R

1:18

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1916phae.proj.10730

Friday June 23, 1916.

Scale m — mc Series 655 — YELLOW

	10:50 mc 10704	Pole. mc10709	P.C.	P.C. mc10709.	
	sc.1 sc.2	sc.1 sc.2	sc.1 sc.2	sc.1 sc.2	
1			5.5 5.3		
off plate 2		off pl.		off pl.	−1.06
3		"	6.7 6.5	"	−1.08
4	B.	B.	7.21	7.20	−1.24
5	1.2 1.0?	1.2 1.20	5.23 8.0.	8.00	−1.57
6	2.2 2.0	2.3 2.1 2.25	4.63 8.4	8.55	−1.57
7	3.2 3.0	3.1 2.9 3.15	4.31 8.9	8.90	−1.44
8	4.2 4.10 4.0 4.0?	4.0 4.05 3.8 B.	3.98 9.9	9.85 9.8	−1.82
9	5.2 5.25 5.0 5.3	5.3 5.20 5.1 5.1 5.22	3.52 m.s.	m.s.	
10	5.5 5.55 5.3 5.6	5.5 5.55 5.3 5.6 5.55	3.33		
11	6.4 6.40 6.2 6.4	6.5 6.60 6.3 6.1 6.50	2.86		
12	6.8 6.85 6.6 6.9	6.7 6.70 6.5 6.8 6.80	2.78		
13	7.6	7.8 7.70	2.38		
14	8.0	8.0 8.00	2.84		
15	8.3	8.1 8.50	2.14		
16	8.8 8.80 8.8	9.0 8.90	2.04		
17	8.8 8.75 8.7	8.8 8.85 8.9 8.80	2.24		
18	9.3 9.30 9.3	9.6 9.55 9.5 9.42	2.14		
19	9.6 9.65 9.7	9.9 9.95 10.0 9.80	2.14		
20	9.9 9.90 9.9	7. 7.			
21	7				
22	m.s.				
23					
24					
25					

12.05.

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1916phae.proj.10730

Friday June 23, 1916.

Scale Mc

Mc series 655.

	Mc 10704 g sc.1	sc.2	Pole. h sc.1	sc.2	Diffr Inv.
1	t.p.		t.p.		
2	.		.		
3	t.p.		6.5		
4	t.p.		6.5		
5		7.6		7.4	
6		8.4		8.2	
7		8.8		8.9	
8		9.2		9.5	
9		?		9.8	
10		n.s.		n.s.	
11					
12					
13					
14					
15					

Diffr Inv. not needed.
Per H.S.L.

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Friday June 23, 1916.

Copied B 21:121

Scale — Mc Series 655. YELLOW

	Mc 10705 sc.1 sc.2 sc.2	Eros 1901 Cu	Magn	7 00 +5.0 O.C. sc.1 sc.2 sc.2	Cu	Magn	Obs. corr −.04
℞	B.			7.50 11 7.6 7.4	-1.40	6.10	
1 ℞	3.1 2.9 B.	4.40	7.50	9.00 11 9.1 8.9	-1.64	7.36	
1a ℞	4.4 4.45 01 4.2 4.5	3.78	8.23	m.s. m.s.			
2	5.4 5.40 00 5.2 5.4	3.35	8.75				
2a	6.6 6.50 11 6.4 6.4	2.86	9.36				
3	6.7 6.75 10 6.5 6.8	2.73	9.48				
4	8.1	2.27	10.37				
5	8.4 8.50 11 8.6 from	2.22	10.72				
6	8.9 8.90 00 8.9	2.17	11.07				
7	9.5 9.65 12 9.8	2.19	11.8 2				
Inv. peculiar } very large. 8	def?						
9	m.s.						
10	m.s.						
Eros 1901. Mar. 28.							
a	6.4 6.35 01 6.2 6.3	2.92	9.27				
B	6.4 6.30 11 6.2 6.2	2.95	9.25				
C	6.2 6.20 00 6.0 6.2	2.99	9.19				
D	5.9 5.85 10 5.7 5.8	3.16	9.01	m.s.			
E	7.1	2.60	9.70				
F	6.2 6.15 01 6.0 6.1	3.00	9.15				
H	3.7 3.5	4.11	7.81	9.4	-1.68	7.72	
a	8.4	2.23	10.63				
b	8.6 8.55 01 8.5	2.21	10.76				
c	9.2 9.20 00 9.2	2.15	11.35				
d	9.7 9.60 11 9.5	2.16	11.76				
bracket of f new. f	10.0? 10.05 10.1						

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Friday June 23, 1916.

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Scale [illegible] Mc Series 655. YELLOW

Alt. corr – 0.4

	Mc 10105	Eros 1901	cont.	
Eros 1901		Au Magn	P.C. Au Magn	
Mar. 29	pa.1 pa.2 pa.3		pa.2 pa.3	
A	B. 6.25 6.3	B. 6.50 6.25 6.75	16 -1.43	6.17
C	6.2	6.8 6.7	2.86	9,36 n.s.
D	16		2.44	10,04
F	6.1 5.9	6.10 6.0 6.1	3.01	9,11 n.s.
E	14		2.50	9,90
a	100		2.20	12,20
b	8.2	8.20 8.2	2.26	10,46
c	9.1	9.10 9.1	2.16	11,26
d	8.1	8.75 8.8	2.19	10,94
f	n.s.	n.s.		

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Friday June 23, 1916.

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Scale

Mc Series 655.

YELLOW

	Mc 10705		Iris 1904		7 30 +17.5			Alt. corr +.04
			Cu	Magn	Diff. Ins. Pc	Cu	Magn	Pc.
	sc 1	sc 2	sc 2		sc 2	sc 2		sk 2
1	3.2 3.1		4.36	7.56	9.9 9.75 9.6	-1.70	8.05	
2	3.5 3.3		4.21	7.71	9.5 9.45 9.4	-1.65	7.77	
2a	4.2 4.0	B.	3.88	8.08	9.88			
2b	5.5 5.3 5.50	5.5	3.30	8.80				
3	6.4 6.2 6.35	6.3	2.92	9.27				
3a	6.2 6.0 6.15	6.1	3.00	9.15				
4		7.1	2.60	9.70				
5		7.4	2.50	9.90				
5a		8.0	2.30	10.30				
6		7.4	2.50	9.90				
7		7.9	2.33	10.23				
8	6.5 6.3 6.50	6.5	2.86	9.36				
9		7.3	2.53	9.83				
10		9.1 9.15 9.2	2.16	11.31				
11		8.4 8.40 8.4	2.23	10.63				
12		9.2 9.20 9.2	2.16	11.36				
13		9.3 9.35 9.4	2.16	11.51				

Why Comparison for star 2 brighter than comp. for 1. ?

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1916phae.proj.10730

Friday June 23, 1916.

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Scale M

Mc Series 655

YELLOW

Mc 10707 — Eunom. 1905 — 8 30+12.5. — Alt. corr +.06

	Mc 10707 sc.1	sc.2	sc.3	Eunom. 1905 Cu Magn	Diff. long. 9C. sc.1	sc.2	Cu Magn	9C. Cu Magn	
α	2.8 8.6			4.55	7.35	8.9	9.00 ±1 9.1	−1.64	7.36
1	3.8 3.6	B.		4.07	7.87	100 scratched ..			
2	4.3 4.1	4.30 00	4.3	3.84	8.14	9.9	9.85 10 9.8	−1.70	8.15
4	4.5 4.3	4.65 ±2	4.8	3.68	8.33	n.s.	n.s.		
3	5.4 5.2	5.40 00	5.4	3.35	8.75				
3a	6.3 6.1	6.20 ±1	6.1	2.98	9.18				
5	6.5 6.3	6.55 ±0	6.6	2.83	9.38				
7	6.3 6.1	6.35 ±0	6.4	2.92	9.27				
6	6.9 6.7	6.90 00	6.9	2.68	9.58				
8		1.3		2.53	9.85				
10		1.8		2.37	10.17				
9		8.1		2.27	10.37				
11		8.4		2.23	10.63				
11a		8.1	8.65 ±0 8.6	2.20	10.85				
12		8.9	8.90 00 8.9	2.17	11.07				
12a		9.4	9.40 00 9.4	2.16	11.56				
12f		9.9	9.75 ±2 9.6	2.18	11.93				

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Friday June 23, 1916

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Saturn

Mc Series 655. YELLOW

Mc 10708 Eunom. 1905 8 40 + 10. Alt. corr +.04

	sc.1	sc.2	Ru	Magn	Diff. Dm.	sc.2	sc.2	Ru	Magn	sc.2
1	2.3 2.1		4.78	7.08	8.6	8.65 01	8.1	-1.60	7.05	
2	2.6 2.4		4.64	7.24	8.8	8.70 10	8.6	-1.60	7.10	
2a	3.1 2.9	B.	4.40	7.50	9.5	9.40 11	9.3	-1.67	7.73	
3	4.1 4.5	4.75 10 4.8	3.64	8.39	ms	m.s.				
4	4.3 4.1	4.45 12 4.6	3.78	8.23	ms					
5	4.8 4.6	4.80 00 4.8	3.62	8.42	?					
6	5.0 4.8	5.05 01 5.1	3.50	8.55						
7	5.3 5.1	5.30 00 5.3	3.40	8.70						
7a	6.0 5.8	5.90 12 5.8	3.10	9.00						
7b	6.3 6.1	6.25 10 6.2	2.97	9.22						
7c	7.0 6.8	6.95 01 6.9	2.66	9.61						
8	7.1		2.38	10.08						
9	7.8		2.37	10.17						
10	8.3		2.26	10.56						
11	8.6		2.20	10.80						
13	8.1		2.19	10.89						
12	9.3		2.16	11.46						

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1916pfae.proj.10730

Tuesday, July 11, 1916.

Scale M 11:05 — Scale measures of ft. comp. stars for R Cassiop. Mc 93 50. (See Lo 3:10)

	sc.1	sc.2	sc.2	Mean	Diff +	Cu	Magn.	Magn Lo 3:10	Mean
t		7.6	7.7	7.65 01	4.40	4.46	12.11	12.05	12.08 03 03
t'		7.9	7.9	7.90 00	4.49	4.52	12.42	12.39	12.40 02 01
u		8.2	8.4	8.30 1 1	4.70	4.62	12.92	13.00	12.96 04 04
w		8.1	8.1	8.70 00	4.53	4.73	13.43	13.23	13.33 10 10
w'		8.9	9.1	9.00 1 1	5.06	4.81	13.81	14.06	13.94 13 12
x		9.3	9.4	9.35 01	5.07	4.90	14.25	14.42	14.34 09 08
y		9.6	9.6	9.60 00	4.82	4.97	14.57	14.42	14.50 07 08
z		9.6	9.6	9.60 00	5.02	4.97	14.57	14.62	14.60 03 02
α		9.9	9.9	9.90 00	4.92	5.03	14.93	14.82	14.88 05 06

+ For magn. from which these differences were obtained see Lo 3:10

Magnitudes from u through x used.

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1916phae.proj.10730

Saturday July 28, 1916.

Scale N 12:15

Scale measures of Comparison Stars for W Virginis (13h 00)

a M10451

[Comp stars marked on this pl. + on Mc 3354]

	sc. B	sc. C	sc. C		Diff.	Curv	Magn
a	7.2	6.8	6.6	6.70	2.60	2.72	9.42
b	7.3	6.9	6.9	6.90	2.69	2.70	9.60
b^2	7.6	7.2	7.3	7.25	2.72	2.68	9.93
b'	8.3	7.9	7.6	7.75	2.59	2.63	10.38
d	8.4	8.0	8.1	8.05	2.39	2.61	10.66
f	8.4	8.0	8.2	8.10	2.47	2.61	10.71
f'	8.8	8.4	~~8.4~~	8.56	2.36	2.53	11.08
c	8.6	8.2	~~8.5~~ 8.5	8.35	2.68	2.57	10.92
c'	8.8	8.4	8.8	8.60	2.73	2.52	11.12
e		9.3	9.4	9.35	2.24	2.33	11.68
e'		9.3	9.4	9.35	2.31	233	11.68
g		9.7	9.8	9.75	2.19	2.22	11.97
h		9.7	9.7	9.70	.	2.23	11.93
k		9.8	10.2	10.0 10.00	.	2.63	12.63
k'		8.6	8.4?	8.50	2.68	2.54	11.04

[Polar hardly superposed on k'?]

1916phae.proj.10730

Saturday July 28, 1916.

Scale m. Scale measures of Comparison Stars for W Virginis.

AC 16241

	sc.1	sc.2	sc.2		Diff.	Curve	Magn.
a		1.6	1.6	7.60	1.70	1.73	9.33
b		1.9	1.7	7.80	1.79	1.78	9.58
b^2		8.1 ~~8.4~~	8.1	8.10	1.87	1.83	9.93
b'		8.4	8.5	8.45	1.89	1.89	10.34
d		8.4	8.4	8.40	2.04	1.86	10.28
f		8.7	8.7	8.70	1.87	1.94	10.64
f'		8.8	8.8	8.80	2.11	1.98	10.78
c		9.1	9.2	9.15	1.88	2.08	11.23
c'		9.2	9.3	9.25	208	2.11	11.36
e ~~d~~		9.4	9.5	9.45	2.14	2.19	11.64
e'		9.3	9.4	9.35	2.31	2.14	11.49
g		9.4	9.6	9.50	2.44	2.20	11.70
h		9.7	9.7	9.70	.	2.27	11.97
fe		9.8	9.9	9.85	.	231	12.16
b'		9.2	9.1	9.15	2.03	208	11.23

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Saturday July 28, 1916.

Scale W Scale measures of comp. stars for W Virginis cont.

RC 16.430.

	sc.1	sc.2	sc.2		Diff.	Curve	Magn
a		7.5	7.4	7.45	1.85	2.09	9.54
b		7.5	7.5	7.50	2.09	2.09	9.59
b²		7.8	7.7	7.75	2.22	2.09	9.84
b'		8.2	8.3	8.25	2.09	2.09	10.34
d		8.5	8.5	8.50	1.94	2.10	10.60
f		8.4	8.4	8.40	2.17	2.10	10.50
f'		8.9	9.1	9.00	1.91	2.12	11.12
c		8.7	8.8	8.75	2.28	2.11	10.87
c'		9.1	9.3	9.20	2.13	2.13	11.33
l		9.3	9.3	9.30	2.29	2.15	11.45
l'		9.4	9.5	9.45	2.21	2.18	11.63
g		9.7	9.7	9.70	2.24	2.23	11.93
h		9.6	9.6	9.60	.	2.21	11.81
k		9.7	9.8	9.75	.	2.23	11.98
k' Image large and hazy		8.7? poor	8.7? poor	8.70?	2.48	2.10	10.80?

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Saturday July 28, 1916.

Scale M Scale measures of comparison stars for W Virginis (cont)

AM 10424

	sc.1	sc.2	sc.2		Diff.	Curve	Magn.	p.188 AM 10451	p.189 AC 16241	p.190 AC 16430	Mean				
a	7.8	7.7		7.75	1.55	1.54	9.49	9.42	9.33	9.54	9.44	05	02	11	10
b	7.8	7.7		7.75	1.84	1.84	9.49	9.60	9.58	9.59	9.56	07	04	02	03
b^2	8.1	8.1		8.10	1.87	1.86	9.96	9.93	9.93	9.84	9.92	04	01	01	08
b'	8.5	~~8.3~~ 8.5	w.s.	8.50	1.84	1.99	10.49	10.38	10.34	10.34	10.39	10	01	05	05
d	8.6	8.6		8.60	1.84	2.01	10.61	10.66	10.28	10.60	10.54	07	12	26	06
f	8.6	8.6		8.60	1.97	2.01	10.61	10.71	10.64	10.50	10.62	~~01~~ 09	09	02	12
f'	9.2	9.1		9.15	1.76	2.12	11.27	11.08	10.78	11.12	11.06	21	02	28	06
c	8.7	8.8		8.75	228	2.07	10.82	10.92	11.23	10.87	10.96	14	04	27	09
c'	9.2	9.1		9.15	2.18	2.12	11.27	11.12	11.36	11.33	11.27	00	15	09	06
e	9.4	9.4		9.40	2.19	2.14	11.54	11.68	11.64	11.45	11.58	04	10	06	13
e'	9.5	9.4		9.45	221	2.16	11.61	11.68	11.49	11.63	11.60	01	08	11	03
g	9.9	10.0		9.95	1.99	2.21	12.16	11.97	11.70	11.93	11.94	22	03	24	01
h	9.9	9.9		9.90		2.20	12.10	11.93	11.97	11.81	11.95	15	02	02	14
k	9.9	~~8.9~~		10.1 10.00		2.21	12.21	12.13	12.16	11.98	12.07	(14)	(06)	09	09
k'	8.9?	from 8.9		8.90?	2.28	2.09	10.99?	11.04	11.23	10.80?	11.02	03	02	21	22

1.26

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Monday, February 19, 1917.

~~Scale 77.~~ Measures of c.s. for R. Com. Beren.
11-
Mc 10749. Estimates using ft stars compared with diffr. dfm. of bk stars.

~~sct sc.~~

a 3 f
o 2 f
b 1 f
f 2 c
c 1 g
g 1 d

o = 7.+

f 7.6

g = 8.1

n = 8.8

s = 8.6

t = 9.x^5

~~t =~~

u = 10.+

5 = 9.1

4 = 10.0

10 = 8.7

11 = 9.6 poor

12 = 9.7 poor.

13 = 9.0 poor

14 = 10.0 poor.

t < 5 on this fol.

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Monday February 19. 1917.

~~Seide~~ Relativales of ft. stars - R Comae Ber. cont.

MC 10561

		p.192 MC 10749		Add 3.74
o	7.4	7.40	0,0	11.14
p	7.7	7.6	7.65	1,0	11.39
q	7.9	8.1	8.00	1,1	11.74
r	8.5	8.8	8.65	1,2	12.39
s	8.7	8.6	8.65	1,0	12.39
t	89 poor	9.5	9.20	3,3	12.94
u	10.0	10.1	10.05	0,1	13.79
v	10.0	10.0	10.00	0,0	13.74
5	9.1	9.1	9.10	0,0	12.84
10	8.6	8.7	8.65	0,1	12.39
11	9.0	9.6 g	9.30 X	3,3	13.04
12	9.1	9.7 g	9.70	0,0	13.44
13	8.9	9.0 g	8.95	1,0	12.69
14	9.9	10.0 g	9.95	1,0	13.69

t 75 on this plate.

12:10 -

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Wednesday February 21, 1917.

Scale AD 10:40

Measures of North Polar Sequence.

Mc 7521 North Pole.

Scale AD used for the first time

Corrections
Scale A +1.2
B 0.00 Var.
C 0.0

Scale B

		sc A	sc B	sc C	P.C sc. A.	P.C sc B	P.C sc C		Prim. – Guide
	1				9.1	9.1	9.1?		
	2								
	3								
	4				9.6 0.8	9.2	9.7	9.65	01.
	5				9.6 1.1	9.5	10.0	9.80	±2.
	6				10.1 0.9	9.8	10.3	10.20	±1.
	7				10.8 0.8	10.4	10.9	10.85	01.
	8					11.5 12.0	B.	12.0	.2.
12.0 & 13.0, +0.4	9	8.4		8.6 9.4		12.3 0.6 12.9		1280	.11	4.18 4.30
13.1 & 15.4 +0.3	10	8.5		8.7		12.8 0.8 13.2		1300	.22	4.52
15.5 – 15.8 +0.2	11	8.8		9.0		14.5 0.1 14.1		1430	.22	4.82
15.9 – 16.2 +0.1	12	9.0	B.	9.2		14.9 0.5 15.1		1510	.11	5.18
16.3 + faint	13	8.9 9.3 0.5	9.1 9.6	9.80 11		15.4 0.2 15.3		1535	.01	5.55
Brighter than 12 +0.5	14	8.9 9.0 0.7	9.5 10.0	9.50 00		16.0 0.3 16.1		1605	.01	5.66
	15	9.0 9.7 0.7	10.2 10.7	10.20 00		16.3 0.2 16.5		1640	.11	5.48
	16	8.8 9.5 0.7	10.5 11.0	11.00 10.50 00		P.C sup? Im. elongated in wrong direction				5.38
	17	9.9 10.6 0.9 11.1	10.8 11.3	11.20 11 10.70 00		17.5		17.5		5.90
	18		11.5 12.0	B.	12.0 .2.					
	19		11.8 12.3 0.4	12.2	12.25 .10		19.0		19.0		6.05
	20		12.6 13.0 0.3	12.9	1295 .01		19.1?		19.1?		5.40
23	24		13.4 13.7 0.5	13.9	1380 .11		19.5?		19.5?		5.50
25	26		14.1 15.0 0.6	15.2	15.10 .11		ms				
	26		15.2 15.5 0.4	15.6	15.55 .11						
	27		16.2 16.3 0.0	16.2	16.25 .10						
	28		16.4 16.4 0.0	16.4	16.40 .00						

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Wednesday February 21, 1917.

Scale A D Measures of North Polar Sequence.

Mc 7521 cont.

		sc B.	sc C.	P.C. B	P.C. C
29			17.5		
30			17.6		
31			sup.		
32			17.7		
33			sup.		
34			19.7?		
35			ns		
36			ns		
2 n	B.			10.8 11.3	B. 11.3
3 n	B.			12.4 12.8 0.2 12.6	12.70
4 n	B.			13.0 13.4 0.1 13.1	13.25
5 n	8.9 9.1	B.	9.1	14.6 14.9 0.6 15.2	15.05
6 n	8.1 9.9 0.4	9.1 9.6	9.75	15.1 15.4 0.4 15.58	15.45
7 n	8.9 10.1 0.6	9.5 10.0	10.05	16.0 16.1 0.1 16.1	16.10
8 n		9.9 10.4	B. 10.4	17.2	17.2
9 n		10.7 11.2	B. 11.2	18.1 18	18.1?
10 n		11.9 12.4 0.5 12.4	12.40	19.0	19.0
11 n		13.0 13.4 0.2 13.2	13.30	19.3 ?	
12 n		13.9 14.2 0.3 14.2	14.20		
+87	12 B.			12.5 12.9 0.6 13.1	13.00
+87	15 B			11.3 11.8	B. 11.8
+88	2 B			12.5 12.9 0.3 12.8	12.85
+88	115 B			13.0 13.4 0.1 13.1	13.25
+88	105 B			12.4 12.8 0.6 12.9	12.85
+88	90 B			14.1 14.4 0.3 14.4	14.40
+88	80 B			12.8 13.2 0.4 13.2	13.20
+88	86 B			12.4 12.8 0.6 13.0	12.90

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Wednesday February 21, 1917.

Scale A D North Polar Sequence.

MC 7521 cont.

	sc	A	B	C						
	4	8 9.4	9.6	B.		9.6	14.9 14.6	0.6	15.2	15.01
Close dbl. wit 75	5						16.8			
Reject. wr scale used. see meas sc. B.	6	10 9.9	9.8	10.3		10.3			17.1	17.1
	7						18.6		18.6	18.6
	8		15.4 15.1	0.3	15.4	15.40	00		ws.	
	9		16.0 15.9	0.1	15.8	15.90	11			
	10		16.8 16.8	0.2	16.6	16.70	11			
	11		16.3 16.2	0.0	16.2	16.25	10			
	12		16.3 16.3	0.2	16.5	16.40	11			
	13		R 17.0	0.4	17.4	17.4	RA			
	14				17.4	17.4				
	15				18.5	18.5				
	16				19.3	19.3				
	17				susp.					
	18				ws.					
	014	8 9.9								
	015	8 9.9								
	017	1	10.8	11.3	B.	11.3				
	018		10.9	11.4	B.	11.4				
	019		12.0 11.5	0.6	12.1	12.05				
	020		12.3 11.8	0.6	12.4	12.35				
	021		13.2 13.2	0.2	ws.	13.0	13.10			
	022		13.5 13.2	0.1	13.3	13.40				
	023		13.5 13.2			13.5				
	024		14.2 13.9			14.2				
	025		14.4 14.1			14.4				
							15.7 15.5	0.3	15.8	15.75
							16.0 15.8	0.0	15.8	15.90
							9		17.49	17.49
									17.5	17.5
									18.1	18.1
									18.2	18.2
									19.3 ? q very F	19.3
									ws.	

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Wednesday February 21, 1917.

Scale AD North Polar Sequence.

Mc 7521 cont

	sc A	B	C		sc B	C
						O.C.
a^1	11.9 8.8	0.7	11.0 10.5	11.00		17.2
a^2	+	12.0 11.5		12.0		18.4
h		15.45 16.1	0.3 15.4	15.40		w.s.
W			18.2	18.2		
m		14.6 14.3	0.1 14.4	14.50		
f		13.3 12.9	0.2 13.1	13.20		
q		15.45 16.1	0.2 15.3	15.35		
q^1		15.4 15.1	0.3 15.4	15.40		
K		13.6 13.3	0.2 13.5 +5.1	w.s. 1355		
d		12.4 11.9	0.3 12.2	12.30		
				15.65		
026		15.7 15.4	0.2 15.6	15.65		
027		15.7 15.4	0.2 15.6	+5		
028		15.7 15.5	0.4 15.9	15.80		
029		16.4 16.4	0.2 16.2	16.30		
030		R 17.0	0.2 17.2	17.2		
031			17.4	17.4		
032			17.1			
033			17.3			
033a			18.9			
034			18.2			
035			18.6			
036			18.5			
037			18.4			
038			?			
039						

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Wednesday February 21, 1917.

Scale A D North Polar Sequence.

Mc 5 21 cont.

	B	C.		
e	12.5 12.1	0.4	12.5	12.50
K'	14.7 14.4	0.6	15.0 f	14.85
b	12.4 11.9	0.4	12.3	12.35
c	12.6 12.2	0.5	12.7	12.65
g	14.1 13.8	0.3	14.1	14.10
o	15.4 15.1	0.3	15.4	15.40
l	14.0 13.7	0.5	14.2	14.10
l'	14.7 14.4	0.5	14.9	14.80
p	16.0 15.8	0.1	15.9	15.95
r	16.6 16.6	0.0	16.6 g 15.8 f	16.60
s	def.			
~~w~~	free page.			
w'	R 17.9	0.1	17.8	17.8
t	16.6 R 15.7	0.6	16.1	16.1
t'	16.3 16.2 +5.7 ws.	0.2	16.4	16.35
y			16.8 16.8	16.80
y'			17.9 17.5	17.70

18.3? poor

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Wednesday February 21, 1917.

Scale AD ~~AA~~. North Polar Sequence.

	Mc 7521	cont.	Diffr'ns.		
	g	h	Mean g	Mean h	Mean g and h
	scA B C	A B C.			
1	B.	.	.		
2	offfd.	.	.		
3	8.7 9.0	B g	9.0?	.	9.0?
4	g 10.6 B.	g 9 10.4 g	.	.	.
5	9 10.4 0.1 9.5 10.0	9 8.2 0.4 9.6 10.1	10.30	10.25	10.28
6	9 10.7 8.5 0.6 10.1 10.6	9 8.8 11.0 0.4 10.2 10.7	10.65	10.85	10.75
7	9 10.8 8.6 0.8 10.4 10.9	9 8.8 11.0 0.7 10.5 11.0	10.85	11.00	10.92
8	11.3 11.8 B.	11.5 12.0 g	11.8	12.0	11.90
9	12.7 12.3 0.6 12.9? g	12.8 12.4 0.3 12.7	1280	12.75	12.78
10	13.1 12.7 0.4 13.1	13.3 12.9 0.5 13.4	13.10	13.35	13.22
11	13.7 13.4 0.3 13.7	13.8 13.5 0.6 14.1	13.70	13.95	13.82
12	14.4 14.1 0.2 14.3	14.4 14.1 0.3 14.4	14.35	14.40	14.38
13	15.4 15.1? low 0.3 15.4 g	15.1 14.8 g 0.3 15.1	15.40	15.10	15.25
14 close to another star.	15.5 15.2 0.3 15.5?	15.6 15.3 0.3 15.6	15.50	15.60	15.55
15	16.2 16.1 0.1 16.2	16.2 16.1 0.0 16.1	16.20	16.15	16.18
16	16.5 16.5 0.1 16.4	16.3 16.3 0.0 16.3	16.45	16.30	16.38
17	17.1	g	17.1	g	17.10
18	17.1	17.5	17.7	17.5	17.60
19	g	18.4 3	g	18.3	18.3
20	18.2	18.5	18.2	18.5	18.35
23	19.3	g	19.3	g	19.3
25	n.s	n.s	.	.	
26					
27					
28					

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Wednesday February 21, 1917.

Scale AD

North Polar Sequences.

MC 7521

	g			h			Diffr. Frm. Mean g	Diffr. Frm. Mean h	Mean g, h
	A	B	C	A	B	C			
2 n	9 10.9 10.7 10.4 10.9			10.9 10.4	B.		10.90	10.9	10.90
3 n	11.5 12.0	B		12.0 11.5	q		12.0	12.0	12.00
4 n	12.1 12.5 0.4		12.5	12.5 12.1 0.1		12.2	12.50	12.35	12.42
5 n	13.80 13.50 13.4 13.6 0.7	14.20 14.3	14.1	14.4 14.1 0.2		14.3	14.00	14.35	14.18
6 n	14.6 14.3 0.2	+5.1	14.5	14.80 14.50 14.4 0.6	15.10 15.1		14.55	14.95	14.75
7 n	15.6 15.3 0.4		15.1	15.4 15.1 0.1		15.2 q	15.65	15.30	15.48
8 n	q	q		16.3 16.2 0.2		16.4	.	16.35	16.35
9 n			17.2	q	q		17.2	.	17.20
10 n			17.9	+		17.6? q	17.9	17.6?	14.80?
11 n			18.6			18.6	18.6	18.6	18.60
12 n			m.s.			m.s.			
+87 12	12.0 11.5 0.6		12.1	12.2 11.7 0.4		12.1	12.05	12.15	12.10
+87° 15	11.6 11.1	B.		11.8 11.3	B.		11.6	11.8	11.70
+88 2	12.5 12.1 0.0		12.1 q	12.5 12.1 0.6		12.6	12.30	12.55	12.42
+88 115	12.9 12.4 0.4		12.8	13.0 12.6 0.2		12.8	12.85	12.90	12.88
+88 105	12.5 12.1 0.4		12.5	12.5 12.1 0.3		12.4	12.50	12.45	12.48
+88 90	13.7 13.4 0.0		13.4	13.4 13.1 0.1		13.2	13.55	13.30	13.42
+88 86	12.5 12.1 0.1		12.2	12.2 11.7 q		q	12.35	12.2	12.30
+88 80	12.9 12.4		q	12.7 12.3 0.1		12.4	12.9	12.55	12.67

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1916phae.proj.10720

Wednesday February 21, 1917.

Scale A 5 North Polar Sequence.

Mc 7 5 21 cont.

	g A	g B	g C	h A	h B	h C	Diffr. Inn. Mean g	Mean h	Mean g, h
2 N	~~18~~ 10.0 0.6 9.4				9.8		9.95	10.3	10.07
4 N	14.1 14.3 0.5		14.8	14.7 10.3 14.4		0.0 14.4	~~9.95~~ 14.70	~~10.3~~ 14.55	14.62
5 N	15.7 15.5 0.3		15.8	15.9 15.7		0.2 15.9	~~14.82~~ 15.75	15.90	15.82
6 N	16.3 16.21 0.5		15.7	15.9 15.7		0.2 15.5	16.00	15.70	15.85
7 N			18.2			18.1	18.2	18.1	18.15
8 N			ms.			ms.			
9 N			ms.						
10 N			ms.						
11 N									
12 N									
13 N									
14 N									
15 N									
0 14	def.			15.4 ~~15.1~~ def.		0.3 15.4		15.40	15.40
0 15	15.6 15.3 0.2		15.5	15.7 15.5		0.2 15.1	15.55	15.70	15.62
0 17			17.2			17.1	17.2	17.1	17.15
0 18			17.4			18.1	17.4	18.1	17.75
0 19			17.6			17.6	17.6	17.6	17.60
0 20			~~17.4~~ 17.8			18.4	18.3 17.8	18.35	18.10
0 21			18.8			18.4	18.8	18.4	18.60
0 22			g			18.3	g	18.3	18.3
0 23			def. ~~g~~			18.7		18.7	18.7
0 24			18.8			18.4	18.8	18.4	18.60
0 25			ns.			19.4?	Identt. uncert. faint	19.4?	19.4?
0 26						ns			

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Wednesday February 21, 1917.

Scale AD North Polar Sequence.

	Mc 7521. g sc B C		h sc B C		Diff. Inn. Mean g. h
a'	16.5 16.5	0.1 16.4	16.6 16.6	0.1 16.7	16.55
a^2	~~17.8~~	17.8	~~17.9~~	17.9	17.85
b	g (near bright star)		g		g
c	g		~~18.2~~	18.2	18.2
d		18.2		18.1	18.15
e		18.1		18.2	18.15
f		19.4		19.3	19.35
g		?		?	
h		ns.		ns	
k		g		18.6	18.6
k'		ns		ns.	
l		?.		19.3?	19.3?
l'		?		?	
m		ns.		ns	

2.35

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1916phae..proj..10730

Wednesday March 7, 1917.

Scale A.D. North Polar Sequence.

10:35 Mc 7676.

		sc A	sc B	sc C.		P.C. sc A B	sc C.	
1-2-3-4 too bit	4					9.9 8.9 0.9 9.6 10.1		10.00
	5					10.0 8.8 1.0 9.8 10.3		10.15
	6	B.				10.9 9.7 0.7 10.4 10.9		10.90
	7					11.0 9.8 0.7 10.5 11.0		11.00
	8	B.				12.7 12.3 0.1 12.4		12.55
	9	8.7 7.5			8.7	13.7 13.4 0.7 14.1		13.90
	10	8.8 7.6			8.8	13.9 13.6 0.5 14.1		14.00
	11	9.1 7.9	B.		9.1	14.7 14.4 0.5 14.9		14.80
	12	9.6 8.4 0.6 9.0	9.5		9.55	def.	neg def?	.
	13	9.9 8.1 0.7 9.4	9.9		9.90	16.3 16.3 0.1	16.25	16.25
	14	10.1 9.6 0.8 9.1	10.2		10.15	16.6 16.6 from 0.2	16.4	16.50
	15	9.9	10.4		10.4	sc B C 17.2		17.2
	16	11.2 10.7			11.2	17.6		17.6
	17	11.7 11.2	B.		11.7	18.1		18.1
	18	12.3 11.8 0.6	12.4		12.35	18.4		18.4
	19	13.1 12.7 0.4	13.1		13.10	f.		.
	20	13.5 13.2 0.5	13.7		13.60	def?		.
	23	14.5 14.2 0.4	14.6		14.55	n.s.		.
	25	15.5 15.2 0.2	15.4		15.45			
	26	16.0 15.8 0.3	16.1		16.05			
	27	16.3 16.3 0.1	16.2		16.25			
	28			17.2	17.2			
	29			17.8 18.0	17.8			
	30			18.3	18.3			
	31			18.4	18.4			
Faint	32			19.1?	19.1?			

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Scale A D. North Polar Sequence.

Mc 76 76

		A	B	C		P.C. A	B	C.	
	33			19?	19.2				
Trace seen, too faint to measure.	34			?	.				
	35			ns	.				
	36								
	2r					11.8 11.3	B.		11.8
	3r					13.3 12.9 0.5 13.4			13.35
	4r	8.8 7.6			8.8	14.2 13.9 0.2 14.1			14.15
	5r					15.4 15.1 0.7 15.8			15.60
	6r	~~7.7~~ 9.8 9.3			9.8	15.7 15.5 0.3 15.8			15.75
	7r	10.1 9.6			10.1	16.4 16.4 0.3 16.7			16.55
	8r	10.9 10.4			10.9	17.9			17.9
	9r	11.4 10.9	B.		11.4	sup.			.
	10r	12.9 12.5 0.3 12.8			12.85	9.			.
	11r	13.8 13.5 0.0 13.5			13.65				
	12r	14.6 14.3 0.1 14.4			14.50				
+87	12	9.0 7.8?			9.0?	13.4 13.1 0.6 13.7			13.55
+87	15	B.			.	12.3 11.8 0.5 12.3			12.30
+88	2	8.8 7.6?			8.8?	13.6 13.3 0.2 13.5			13.55
+88	115	B.			.	14.4 14.1 0.1 14.2			14.30
+88	105	B.			.	13.4 13.1 0.3 13.4			13.40
+88	90	B			.	14.7 14.4 0.5 14.9			14.80
+88	86	B			.	13.3 13.0 0.9 13.9			13.60
+88	80	B			.	14.2 13 14.9 0.2 14.1			14.15

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Scale A D. North Polar Sequence.

Mc 7676.

	pc A	pc B	pc C.			pc. A	B.	C.	
4a	9.6 8.4	10.8 9.2	9.7	9.65		15.5 15.2	0.5 15.7		15.60
5a		10.3 9.8		10.3			✱17		17.2
6a		10.3 9.8	B.	10.3			17.3		17.3
7a		13.6 13.3	0.0 13.3	13.45			✱n.s.		
8a		15.8 15.6	0.2 15.8	15.80					
9a		16.2 16.1	0.0 16.1	16.15					
10a		16.5 16.5	0.2 16.7	16.60					
11a		✱	16.9	16.9					
12a			17.2	17.2					
13a			17.3	17.3					
14a			17.6						
15a			18.6						
16a			19.3?						
17a			✱						
18a			n.s.						
014	10.1 8.9	0.8 9.7	10.2	10.15		16.7 16.7	0.1 16.6		16.65
015	~~9a~~	9.9	10.4	10.4		16.6 16.6	0.1 16.7		16.65
~~016~~									
017		11.5 11.0		11.5			18.1 poor.		18.1
018		11.6 ~~+0.8~~ 11.1	B	11.6			18.2		18.2
019		12.6 12.2	0.2 12.4	12.50			✱ also n.s.		
020		13.2 12.8	0.1 12.9	13.05					
021		13.6 13.3	0.3 13.6	13.60					
022		13.7 13.4	0.7 14.1	13.90					
023		13.8 13.5	-0.4 13.9	13.85					
024		14.4 14.1	0.3 14.4	1440					

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Scale A.D. North Polar Sequence.

Mon676.

	A	B	C		P.C.
					cB C.
025		14.9 14.4 0.6 0.5 15.1		15.00	
026		15.9 15.7 0.2 15.9		15.90	
027		16.2 16.1 0.0 16.1		16.15	
028		16.5 16.5 – 0.2 16.7		16.60	
029			16.9		
030			17.1		
031			17 18.9		
032		+	17.6		
033			17.8		
034			18.1		
035			18.6? 8		
036			19.0		
Only trace. 037			19.1?		
038			?.		
039			ms.		
040					
∞					
a'	11.0 9.8 0.8 11.1 10.6			11.05	sup.
a^2		12.4 12.0 0.5 12.5		12.45	?.
b		12.8 12.4 0.4 12.8		12.80	?.
c		13.3 12.9 0.4 13.3		13.30	
d		12.9 12.5 0.6 13.1		13.00	?.
e		13.1 12.7 0.6 13.3		13.20	
f		13.6 13.3 0.5 13.8		13.70	
g		14.4 14.1 0.1 14.2		14.30	

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Scale A.D. North Polar Sequence.

Mc 7676.

	A	B		C	
h	~~16.0~~ 15.7	15.5	0.2	15.1	15.70
k	14.4	14.1	0.1	14.2	14.30
k'	15.4	15.1	0.1	15.2	15.30
l	14.6	14.3	0.2	14.5	14.55
l'	16.1	14.8	0.4	15.2	15.15
m	15.0	14.5	0.4	15.1	15.05
~~m~~					
o	15.7	15.4	0.2	15.6	15.65
p	16.4	16.4	0.1	16.5	16.45
q	16.0	15.8	0.0	15.8	15.90
q'	15.7	15.5	0.2	15.1	15.70
r				17.2	17.2
s				17.6	17.6
t	16.4	16.4	0.0	16.4	16.40
t'	16.7	16.7	0.0	16.7	16.70
~~u~~					
w				18.2	18.2
w'				17.8	17.8
y				17.3	17.3
y'					

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Scale AD. North Polar Sequences.

Mc 7676

	g			h			Diff. Im. Mean
	A	B	C	A	B	C	g. h
4	B.			B.			B
5	10.0 8.8			9.9 8.1			9.95
6	10.6 9.4			10.6 10.1			10.60
7	10.7 9.5	0.3	10.3 9.8	10.9 10.4			10.63
8		12.0 11.5	0.7 12.2	12.4 11.9			12.20
9		13.1 12.7	0.7 13.4	13.1		13.1	13.20
10		13.4 13.1	0.6 13.7	13.4		13.4	13.50
11		14.4 14.1	0.1 14.2	14.4		14.4	14.33
12		14.7 14.4	0.1 14.3	14.7 14.4	0.0	14.4	14.52
13		15.5 15.2	0.4 15.6	15.4 15.1	0.2	15.3	15.45
14		16.1 16.0	0.1 16.1	16.2 16.1	0.1	16.2	16.15
15		16.5 16.5	0.1 16.4	16.7 16.7	0.3	16.4	16.50
16		16.9	17.3			17.3	17.30
17			17.6			17.6	17.60
18			18.2			17.8	18.00
19			18.5		nearly sup.		18.5
20			18.9			18.7	18.80
21							
22							
23			∫.			∫.	
24							
25							
26							

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Scale AD North Polar Sequence.

Mc 7676.

	g A	g B	g C	h A	h B	h C	Diff. Inv. Mean g.h
2n	11.1	10.6		11.1	10.6		11.10
3n	12.1	11.6		12.1	11.6		12.10
4n	12.8	12.4		12.9	12.5		12.85
5n	14.6	14.3		14.4	14.1		14.50
6n	15.1	14.8		15.4	15.1		15.25
7n	q			16.2	16.1		16.2
8n	16.7	16.7		q			16.7
9n	~~17~~		17.3			surf	17.3
10n	q			q			.
11n	18.5			18.6			18.55
12n	n.s.			n.s.			
+87 12	12.5	12.1		12.5	12.1		12.50
+87 15	11.9	11.4		12.0	11.5		11.95
+88 2	12.9	12.5		12.7	12.3		12.80
+88 115	13.1	12.7		13.1	12.8		13.10
+88 105	12.8	12.4		12.7	12.4		12.75
edge +88 90	q			q			~~12.~~
" +88 86	q			12.0	11.5		12.0
" +88 80	q			q			.

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Scale AD North Polar Sequence.

MC7676 Diff. Images.

	A	B	C	B	C	Mean
						g. h
2 R		9.9 9.4		~~9.9~~ 9.7 9.2		9.80
~~3 R~~						
4 R		15.2 14.9 0.0 14.9		15.4 15.1 0.1 15.2		15.18
5 R		16.3 16.2 0.2 16.4		16.3 16.2 0.1 16.3		16.38
6 R			16.8		16.9	16.85
7 R			18.5		18.6	18.55
8 R			n.s.		n.s.	
014		15.7 15.4	~~15.~~	15.7 15.4		15.70
015		16.2 16.1 0.1	16.2	16.3 16.2 0.1	16.3	16.25
017		~~17.0~~	17.2	~~17.1~~	17.1	17.15
018			17.2		Sup?	17.2
019			g		18.1	18.1
020			g		18.2	18.2
021			g		18.6	18.6
022			19.0		g.	19.0
023			18.8		188	18.80
024			n.s.		n.s.	
025						
026						

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Scale A D. North Polar Sequence.

Mc 7676.

	f	c	h	c	Diffs. Imm. Mean g, h
a'		17.1		17.1	17.10
a²		18.1		g	18.1
b		18.2		18.1	18.15
c		18.4		18.7	18.55
d		18.1		sup.	18.1
e		sup.		18.1	18.1
f		18.4		18.6	18.50
g		ns.		ns.	
h		ns.			
k		ns.			
k'		ns.			
l					
m		ns.			
o					
p					
q					

1:35

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Monday June 25, 1917.

Comparison of Different Scales.

1:40 -

Scale 2 Reversed meas. with Scale m.

		A	A	B.	
	X				
	X				
	3	B.			
	4	B			
5.3	5	3.3	3.5	B.	3.5
6.3	6	4.4	4.6	4.6	4.60
7.3	7	5.9	6.1	6.2	6.15
8.3	8			7.8	7.8
B.	7	5.2	5.4	5.5	5.45
	8	6.8 (7.0)	6.9 (7.1)	7.2	7.10
	9			8.6	8.6
	10			10.0	10.0

Scale m reversed and meas. with Scale 2.

		A	B.	
A	1	B.		
	2	B		
3.2	3	4.2	4.5	4.5
4.2	4	5.3	5.6	5.6
5.2	5	6.3	6.6 B.	6.6
6.2	6	6.8	7.1 7.21	7.15
7.2	7	7.6	7.9 7.9	7.90
	8			
	9			
B	4	5.1	5.4	5.4
	5	5.8	6.1 B.	6.1
	6	6.7 7.8	7.0 7.1	7.05
	7	7.4	7.7 7.6	7.65
	8		8.6	8.6
	9		9.4	9.4
	10.		9.8	9.8

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Monday June 25, 1917.

Comparison of Different Scales.

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Scale N Reversed meas. with Scale M

		A	B		
A	-1	B.			
	0	B			
	1	B			
1.8	2	1.8	3.0		3.0
2.8	3	3.6	3.8	B.	3.8
B	3	3.6	3.8	B.	3.8
3.6	4	4.6	4.8	4.8	4.80
4.6	5	5.5	5.7	5.1	5.70
5.6	6	6.2	6.4	6.4	6.40
6.6	7		7.4		7.4
7.6	8		8.1		8.1
8.6	9		8.9		8.9
C	4	4.8	5.0	4.	5.0
	5	5.8	5.6 5.9	5.7	5.80
	6	6.9	7.1	7.2	7.15
	7		7.8		7.8
	8		8.4		8.4
	9		9.2		9.2
	10		9.9		9.9

Scale M Reversed meas. with Scale N.

		A	B	C	C	
A	1	B.				
	2	B				
	3	B				
4.2	4	4.5	4.2	B.		2.3
5.2	5	5.1	4.2 3.8	B.		3.85
6.2	6	7	5.2 4.8	4.8		4.80
7.2	7	7	6.4 6.0	5.8	6.1	5.97
B	4		B.			
	5		3.5 3.1			3.1
	6		4.8 4.4	4.5		4.45
	7		6.2 5.8	5.5	5.6	5.68
	8		7.6 7.2	7.2		7.20
	9		7.	9.1		9.18
	10			9.9		9.9

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Monday June 24, 1917.

Comparison of Different Scales.

Scale U Reversed.
meas. with Scale R

	A	B.
A 3.0	3	B.
4.0	4	B
5.0	5	7.2 7.5 7.5
6.0	6	8.1 8.4 8.5 8.45
7.0	7	10.1 10.1
8.0	8	11.3 11.3
B	5	6.6 6.9 B. 6.9
	6	8.2 8.5 8.5 8.50
	7	10.1 10.1
	8	11.2 11.2
	9	12.9 12.9
	10	13.8 138

Scale R Reversed
meas. with Scale U.

	A	B
A.		
1.3	1	B
2.3	2	
3.3	3	B
4.3	4	3.6 3.6 3.9
5.3	5	3.7 3.7 4.0
6.3	6	4.4 4.4
7.3	7	4.7 4.7 B.
8.3	8	5.4 5.4 5.5 5.45
9.3	9	6.4 6.4 6.5 6.45
B		
	6.7	4.6 4.6 B. 4.6
	8	5.4 5.5 5.5 5.50
	9	6.2 6.2 6.2 6.20
	10	6.5 6.5 6.6 6.55
	11	7.8 7.8 7.7 7.75
	12	8.4 8.4
	13	9.2 9.2
	14	10.0 10.0

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MC 7449 Pleiades Yellow

Mar 26 Diffr. in ♃ Central in.

Looked up – see O 16:165.

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