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Observing Book 20

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This book examined for underlining (through p. 83)

O. Aug. 5, 1917.

Observing Book. 20.

"M.E. O'Reilly"

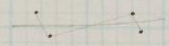
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For Remeasures of Carte 11 +10.5 (plates 12-17)

mc7655 020:218

9 10 11 12 13

+1.5



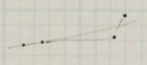
mc7238 020:218

+30

+25



mc7476 020:219.



1.5

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NB Although measures in this book are recorded in order of brightness, they were measured as irregularly as possible, to obtain independent results.

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Index, Book 20

		T.P.
*	Scale Measures of c.s. S Cancri with Add. Stars	6 – 14, 25-33
	Mc Series 586	15 – 24
	McCormick plates for R Com. Ser.	35-36
	H plates for Messrs 15, also misc. M15	37 – 38, 39 – 47.
	Mt Wilson plates M15, X plates	48 – 63, 114 – 115
	Praesepe. H plates	64 – 67.
	Neb. Orion Mc "	68 – 81.
	" " Mc Cormick plates.	82 – 85
±	Pleiades Mc Cormick plates	86 – 89.
	North Polar Sequence	90 – 113, 116 – 127, 163 – 9
*	Requested Estimates for S Cancri on CP plates	128 – 133.
	" " " W Delph.	134 – 135.
	ac + Am long Exp. – yellow. H.S. Regions	136 – 161, 170 – 173
	Est. of slat 240, in Pleiades, – for Mr. Campbell	162 –
±	Pleiades McCormm. plates. For Curvature Corr.	174 – 191, 194 – 9.
	Est. slit 250 in Reg. near Sect Sot.	192 –

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Wednesday March 8. 1916.

Plotted 286

Scale R 11:05

Scale measures of c.s. δ Cancri with add. stars. for Rel. Magns.

Mc 5176 δ Cancri

copied 9a : 153 J.C.

		sc.1	sc.2		Diff.	Curve	Magn.	sc.1	sc.2	sc.?		Diff.	Curve	Magn.
a	B.							8.3	8.6	8.5	8.55 0±	-0.95	-1.03	7.52
a'	B.							7.5	7.8	8.0	7.90 ±1	-0.96	.	.
b	B.							8.6	8.9	9.1	9.00 ±1	-1.19	-1.17	7.83
c	B							8.7	9.0	9.1	9.05 01	-1.14	-1.19	7.86
c'	B								9.3	9.4	9.35 ±0	-1.31	-1.30	8.05
d	B.								10.1	9.9	10.00 ±.	-1.77	-1.55	8.45
e	d'	5.5	6.0.		6.0	3.49	3.41	9.41	def?	.	.	.	.	.
f		6.0	6.3		6.3	3.21	3.30	9.60	11.2	11.4	11.30 ±1	-1.79	-1.92	9.38
g		6.7	7.0	B.	7.0	3.08	3.08	10.08	12.2	12.1	12.15 0±	-2.07	-2.08	10.07
h		8.0	8.3	8.2	8.25 10	2.58	2.69	10.94	13.1	13.1	13.10 00	-2.27	-2.20	10.90
f'		7.0	7.3	B.	7.3	3.00	2.99	10.29	12.4	12.4	12.40 00	-2.10	-2.11	10.29
l		8.5	8.8	8.8	8.80 00	2.63	2.50	11.30	f.	f.p.		.	.	.
m		6.8	9.1	9.4 +0.2	9.25 ±2	2.43	2.34	11.59		13.6?	13.6?	-1.92	.	.
n			10.2	10.1 10.15 0±		2.01	2.06	12.21		n.s.		.	.	.
e'		5.9	6.2		6.2	3.39	3.34	9.54	11.7	11.6	11.65 10	-2.06		

additional stars:

copied 9a : 152

				Curve	Magn.				Curve	Magn.
d'	B.	.	.	.		9.7	9.7	9.70 00	-1.44	8.26
d²	B	.	.	.		10.3	10.3	10.30 00	-1.67	8.63
d³	B.	.	.	.		10.7	10.6	10.65 10	-1.79	8.86
d⁴	5.5 5.8	B	5.8	3.49	9.29	10.7	10.6	10.65 10	-1.79	8.86
g'	8.3 8.6	8.4	8.50 ±.	2.60	11.10		13.4	13.4	.	.

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1916phae.proj.10740

Wednesday March 8, 1916.

Plotted 286

Scale R Scale measures of c.s. S Cancri cont.

MC 8175 S Cancri for Rel. Magns. Copied 9a:153

	sc.1	sc.2		Diff.	Curve	magn.	g sc.1	g sc.2	h sc.1	h sc.2	magn.	Diff.	P.C. sc.1	P.C. sc.2	Diff.	Curve	magn.
a	4.0	4.3	4.3	3.30	3.47	7.77	8.1	8.4	8.2	8.5	8.45 0.7.74	-0.85	+ 9.6		-2.00	-1.98	7.62
a'	B.	.	.	.	.	.	7.1	7.4	7.2	7.5	7.45 0.6.90	-0.51	8.4	8.7	-1.76	-1.80	6.90
b	B.	.	.	.	.	.	8.4	8.7	8.3	8.6	8.65 .0.7.89	-0.84	9.8		-1.99	-2.02	7.78
c	B.	.	.	.	.	.	8.5	8.8	8.6	8.9	8.85 0.8.05	-0.94	10.1		-1.99	-2.04	7.86
c'	B.	.	.	.	.	.	8.3	8.6	8.4	8.7	8.65 0.7.89	-0.61	10.2		-2.16	-2.11	8.09
d	4.5	4.8	4.8	3.43	3.34	8.14	8.6	8.9	8.6	8.9	8.90 0.8.09	-0.67	10.4		-2.17	-2.16	8.24
e	6.4	6.7	6.7	2.79	2.81	9.51	11.1		10.9		11.00 1.9.55	-1.51	12.1		-2.61	-2.57	9.53
e'	6.5	6.8	6.8	2.79	2.80	9.60	10.9		11.1		11.00 1.9.55	-1.41	12.1		-2.51	-2.57	9.53
f	6.5	6.8	6.8	2.71	2.80	9.60	10.9		11.1		11.00 1.9.55	-1.49	12.1		-2.59	-2.57	9.53
g	7.1	7.4	7.4	2.68	2.62	10.02	t.p.		11.8?		11.8? 1.10.04	-1.72	12.8		-2.72	-2.75	10.05
f'	7.5	7.8 B.	7.8	2.50	2.50	10.30	12.3		12.4		12.35 1.10.37	-2.05	13.3		-3.00	-2.91	10.39
h	8.4	8.7 8.5	8.60	2.23	2.28	10.88	12.9		12.9		12.90 0.10.73	-2.07	+				
l	8.8	9.1 9.2	9.15	2.28	2.14	11.29	t.p.		sup.		.		m.s.				
m		9.8	9.8980	1.88	1.99	11.79	m.s		m.s.		.						
n		10.2	10.20	1.96	1.90	12.10											

Copied 9a:152

Add. stars:-

				Curve	magn.	Curve	magn.	Curve	magn.
d'	4.4	4.7	4.7	3.35	8.05	9.2	9.1	9.15 0.1-0.86	8.29
d^2	B	.	.	.	.	10.1	10.1	10.10 00-1.15	8.95
d^3	B	.	.	.	.	10.4	10.4	10.40 00-1.25	9.15
d^4	~~6.0~~	6.3	6.3	2.92	9.22	t.p.	10.3	10.3 .2-1.21	9.09
g'	8.1	9.0 8.9	8.95	2.19	11.14	t.p.	sup.		

				Curve	magn.	Curve	magn.
d'	10.3	-2.13	8.17				
d^2	10.9	-2.27	8.63				
d^3	11.5	-2.40	9.10				
d^4	11.8	-2.49	9.31				
g'	m.s.						

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Wednesday March 8, 1916.

Plotted 287

Scale P2 — S Cancri. Additional Stars. — Reduced by Rel. magns.

Mc4998

1st Eph. 20s. — Copied 9a: 153

Magn.	Curve		sc1	sc2	sc2		Diff.	P.C. sc2	sc2		Diff.	Curve	Magn.
7.60	-1.40	a	8.6	8.9	9.1	9.00 ±1	-1.40	~~13.3~~ 13.3	~~12.9~~	13.30 ±0	-5.70	-5.62	7.68
6.93	-1.12	a'	7.7	8.0	8.1	8.05 ±1	-1.11	12.3 ~~11.9~~	12.4	12.35 ±0	-5.41	-5.45	6.90
7.85	-1.50	b		9.3	9.4	9.35 ±0	-1.54	13.8		13.5	-5.69	-5.66	7.84
7.92	-1.53	c		~~9.4~~	9.5	9.45 ±1	-1.54	13.6		13.6	-5.69	-5.68	7.92
7.96	-1.54	c'		9.5	9.5	9.50 ±0	-1.46	13.5		13.5	-5.46	-5.66	7.84
8.36	-1.62	d		9.9	10.1	10.00 ±1	-1.77	f.					
9.40	-1.80	e		11.2	11.2	11.20 ±0	-1.71						
9.54	-1.81	e'		11.4	11.3	11.35 ±1	-1.76						
9.49	-1.81	f		~~11.2~~ ~~10.1~~	11.4	11.30 ±1	-1.79						
10.48	-1.92	f'		12.5	12.3	12.40 ±1	-2.10						
10.08	-1.87	g		12.0	11.9	11.95 ±1	-1.87						
10.86	-1.94	h		12.8	12.8	12.80 ±0	-1.97						
11.38	-1.92	l		13.3	13.3	13.30 ±0	-1.87						
11.65	-1.90	m		13.5	13.6	13.55 ±0	-1.87						
		m'		f	f.								

Copied 9a: 152

						Curve	Magn.	Curve	Magn.
Add. stars	d'		9.7	10.1	9.90 ±2	-1.62	8.28	13.9?	
	d²		10.6	10.5	10.55 ±1	-1.71	8.84		
	d³	~~f.~~	10.7	10.6	10.65 ±0	-1.73	8.92		
	d⁴		10.6	10.5	10.55 ±1	-1.71	8.84		
	g'		~~13.3~~ ~~12.8~~	13.1	13.20 ±1	-1.93	11.27		

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Wednesday March 8, 1916.

Plotted 287

Scale 12 cont.

MC 4998 S Cancri additional stars.

2nd 24h. 1m Copied 9a : 153

Magn.	Curve		sc 1	sc 2		Diff.	sc 2	sc 2		Diff.	Curve	Magn.
7.54	0.34	a	6.9	7.2	7.2	0.40	12.4	12.2	12.30 ±1	-4.70	-4.53	7.77
6.98	0.58	a'	6.1	6.4	6.4	0.54	11.1	11.2	11.15 ±0	-4.21	-4.25	6.90
7.79	0.19	b	7.3	7.6 7.8	7.6	0.21	12.5	12.4	12.45 ±0	-4.64	-4.55	7.90
7.91	0.11	c	7.5	7.8	7.8	0.11	12.4	12.5	12.45 ±1	-4.54	-4.55	7.90
7.99	0.04	c'	7.6	7.9 8.0	7.95 ±0	0.09	12.3	12.4	12.35 ±0	-4.31	-4.54	7.81
8.31	-0.14	d	8.2	8.5 8.4	8.45 ±0	-0.22	13.0	12.8	12.90 ±1	-4.67	-4.65	8.25
9.41	-0.59	e		10.0	10.0	-0.51	n.s.	n.s.				
9.49	-0.61	e'		10.1	10.1	-0.51						
9.58	-0.62	f		10.2	10.2	-0.69	f?					
10.40	-0.80	f'		11.2 11.2	11.20 ±0	-0.90						
9.94	-0.71	g		10.7 10.6	10.65 ±0	-0.57						
10.94	-0.86	h		11.7 11.9	11.80 ±1	-0.97						
11.27	-0.88	k		12.1 12.2	12.15 ±0	-0.72						
11.69	-0.91	m		12.6 12.6	12.60 ±0	-0.92						
12.15	-0.95	n		13.1 13.1	13.10 ±0	-0.94						

Add stars

Copied 9a : 152

			Curve	Magn.					Curve	Magn.
d'	7.9	8.2 8.1	8.15 ±0	-0.04	8.11	12.9	12.9	12.90 ±0	-4.65	8.25
d2	8.4	8.7 8.9	8.80 ±1	-0.25	8.55	13.3	13.4	13.35 ±0	·	
d3	9.0	9.3 9.4	9.35 ±0	-0.40	8.95	13.6	13.7	13.65 ±1	·	
d4	8.8	9.1 9.1	9.10 ±0	-0.34	8.76	13.6	13.5	13.55 ±1	·	
g'		12.1 12.1	12.10 ±0	-0.88	11.22	n.s.	n.s.			

12:25

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Wednesday March 8, 1916.

Scale R S Cancri Additional Stars Plotted 287

MC 5161 S Cancri.

Copied 9a : 153

Magn.	Curve		sc.1	sc.2		Diff.	sc.2	sc.2		Diff.	Curve	Magn.
		a	B.				9.9	10.0	9.95 ±0	-2.35	-2.22	7.73
		a'	B.				sc.1 8.4	8.7	8.5 ~~8.45~~ 8.60 ±1	-1.66	-1.69	6.91
		b	B				sc.2 10.2	10.2	10.20 00	-2.39	-2.30	7.90
		c	B.				10.2	10.1	10.15 01	-2.24	-2.30	7.85
		c'	B.				10.3	10.4	10.35 ±0	-2.31	-2.36	7.99
8.28	2.88	d	5.1	5.4		5.4 2.83	10.1	10.9	10.80 ±1	-2.57	-2.50	8.30
9.38	2.28	e	6.8	7.1		7.1 2.39	12.4	12.5	12.45 01	-2.96	-3.00	9.45
9.70	2.10	e'	7.3	7.6		7.6 1.99	12.6	12.9	12.75 ±1	-3.16	-3.08	9.67
9.50	2.20	f	7.0	7.3	B.	7.3 2.21	12.3	12.8	12.55 ±2	-3.04	-3.01	9.54
10.13	1.88	f'	8.1	8.4	8.1	8.25 ±1 2.05	13.1	13.1	13.1 a	-3.40	-3.32	10.38
10.10	1.90	g	7.9	8.2	B	8.2 1.88	13.2	13.3	13.25 01	-3.17	-3.21	10.04
10.87	1.52	h		9.4	9.3	9.35 ±1 1.48		n.s.				
11.43	1.33	l		10.1	10.1	10.10 00 1.33						
11.75	1.25	m		10.5	10.5	10.50 00 1.18						
12.08	1.18	n		10.9	10.9	10.90 00 1.26						

Copied 9a : 152

Additional Stars

			Curve	Magn.				Curve	Magn.
d'	5.2	5.5	5.5	2.85	8.35	10.7	10.6	10.65 10 -2.46	8.19
d²	5.6	5.9	5.9	2.70	8.60	11.6	11.5	11.55 01 -2.73	8.82
d³	6 5.1	6.4	6.4	2.51	8.91	12.1	12.1	12.10 00 -2.90	9.20
d⁴	6.2	6.5	6.5	2.49	8.99	12.0	12.1	12.05 01 -2.89	9.16
g'	~~8.4~~ 9 v.f.		9.45	01.50	10.95	n.s.	n.s.		

All images on plate are elongated

12.45

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1916phae..proj..10740

Monday, March 13, 1916.

Plotted 288

Scale m
10:30

δ Cancri Additional Stars.
Ac ~~4 5 9 7~~ 10 9 5 7

Copied 9a:153

	sc.1	sc.2	sc.3		Diff.	Curve	magn.
	6.1 6.3 6.1						
a	~~5.4~~	~~5.6~~		6.20 1	1.40	1.35	7.55
a'	5.4	5.6	5.4	5.50 1	1.44	1.56	7.06
b	6.5	6.7	6.7	6.70 0	1.11	1.18	7.88
e	6.5	6.8	6.6	6.65 0	1.26	1.20	7.85
c'	6.4	6.9	6.7	6.65 0	1.39	1.20	7.85
very close to another star d		7.4?	7.3	7.35 0	0.88	1.00	8.35
e		8.1	8.1	8.10 0	1.39	1.20	9.30
e'		8.3	8.4	8.35 0	1.24	1.34	9.69
f		8.2	8.3	8.25 0	1.26	1.29	9.54
f'		8.6	8.6 faint	8.60 0	1.70	1.49	10.09
g		8.6	8.6	8.60 0	1.48	1.49	10.09
h		9.0	9.2	9.10 1	1.73	1.80	10.90
l		tr.	~~9.5~~ tr.	.	.	.	.
m		9.5	9.5	9.50 0	2 1.18	2.06	11.56
n		9.8	9.9	9.85 0	~~1.91~~ 2.31	2.30	12.15

Copied 9a:152

Add. stars

					Curve	magn.
d'	~~6.7~~	7.1	7.2	7.15 1 0	1.04	8.19
d^2		7.5	7.6	7.55 1 0	1.01	8.56
d^3		7.6	7.8	7.70 1 1	1.05	8.75
d^4		8.1	8.1	8.10 0 0	1.20	9.30
nearly sup? g'		9.3?	?	9.3?	1.95	11.25?

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1916phae.proj.10740

Monday, March 13, 1916.

Plotted 288

Scale M δ Cancri. Additional plates

Ac. 12791 (9+15)° Copied 9a: 153

	sc.1	sc.2	sc.3		Diff.	Curve	Magn.
a	5.7	5.9	5.6	5.75	1.85	1.75	7.50
a'	4.9	5.1	5.2	5.15	1.79	1.87	7.02
b	5.7	5.9	6.0	5.95	1.86	1.73	7.68
c	6.1	6.3	6.2	6.25	1.66	1.70	7.95
c'	6.2	6.4	6.2	6.30	1.74	1.68	7.98
d (very close to a star)	6.6	6.8	6.8	6.80	1.43	1.60	8.40
e	7.7	7.7		7.70	1.79	1.72	9.42
e'	7.9	7.9		7.90	1.69	1.78	9.68
f	7.7	7.8		7.75	1.76	1.73	9.48
f'	8.3	8.3		8.30	2.00	1.90	10.20
g	8.3	8.2		8.25	1.83	1.89	10.14
h	8.8	8.7		8.75	2.08	2.08	10.83
l	9.2	9.2		9.20	2.23	2.23	11.43
m	9.4	9.4		9.40	2.28	2.30	11.70
n	9.7	9.7		9.70	2.46	2.42	12.12

Copied 9a: 152

Add. stars

				Curve	Magn.
d'	6.3	6.5	6.7	6.60	1.63	8.23
d²	6.9	7.1	7.1	7.10	1.62	8.72
d³	7.4	7.3		7.35	1.64	8.99
d⁴	7.4	7.4		7.40	1.65	9.05
g'	8.7	8.7		8.70	2.04	10.74

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1916phae.proj.10740

Monday March 13, 1916.

Plotted 288

Scale m S Cancri Additional stars.

Ac. 15918 Copied 9a: 153

		sc.1	sc.2	sc.3		Diff.	Curve	Magn.
	a	5.7	5.9	5.9	5.90 oo	1.70	1.53	7.43
	a'	5.4	5.6	5.4	5.50 :	1.44	1.62	7.12
	b	6.1	6.3	6.3	6.30 oo	1.51	1.47	7.77
	c	6.1	6.3	6.2	6.25 : o	1.66	1.48	7.73
	c'	6.5	6.7	6.6	6.65 : o	1.39	1.45	8.10
close dbl?	d	4+		7.1	7.1	1.13	1.52	8.62
	e		7.6	7.8	7.70 :	1.79	1.74	9.44
	e'		7.9	7.6	7.75 : :	1.84	1.76	9.51
	f		7.7	7.7	7.70 oo	1.81	1.74	9.44
	f'		8.3	8.3	8.30 oo	2.00	2.02	10.32
	g		8.1	8.1	8.10 oo	1.98	1.93	10.03
	h		8.6	8.5	8.55 o :	2.28	2.15	10.70
	l		9.2	8.9	9.05 o :	2.38	2.42	11.47
	m		9.3	9.1	9.20 : :	2.48	2.51	11.71
	n		9.4	9.4	9.40 oo	2.76	2.63	12.03

Copied 9a: 152

Add. stars

					Curve	Magn.
	d'	6.6	6.8	6.8	6.80 oo	1.47	8.27
	d^2		7.2	7.2	7.20 oo	1.57	8.77
	d^3		7.4	7.4	7.40 oo	1.63	9.03
	d^4		7.6	7.5	7.55 o :	1.69	9.24
very close to star a f. ?	g'		sup?				

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Monday March 13, 1916.

Plotted 288

Scale m Additional stars for δ Cancri.

Ac. 12168 (9 + 15) Copied 9a: 153

	Ac.1	Ac.2	Ac.3		Diff.	Curve	Magn.
a	5.9 6.1	6.0		6.05 1.0	1.55	1.67	7.72
a'	4.8 5.0	5.0		5.00 0.0	1.94	1.90	6.90
b	5.9 6.1	6.1		6.10 0.0	1.71	1.65	7.75
c	6.0 6.21	6.21		6.20 0.0	1.71	1.63	7.83
c'	6.0 6.21	6.1		6.15 0.1	1.89	1.64	7.79
d	6.8 7.0	7.0		7.00 0.0	1.23	1.53	8.53
e		7.7	7.9	7.80 ±1	1.69	1.60	9.40
e'		8.2	8.2	8.20 0.0	1.39	1.69	9.89
f		7.8	8.0	7.90 ±1	1.61	1.62	9.52
Im very sharp. f'		8 ? f.	f.?	.	.	.	.
g		8.2	8.3	8.25 0.1	1.83	1.70	9.95
h		8.9	8.9	8.90 0.0	1.93	1.90	10.80
l		9.4	9.4	9.40 0.0	2.03	2.03	11.43
m		9.6	9.6	9.60 0.0	2.08	2.10	11.70
n		10.0	9.9	9.95 0.1	2.21	2.20	12.15

Copied 9a: 152

Add. stars

				Curve	Magn.
d'	6.4 6.6	6.6	6.60 0.0	1.55	8.15
d^2	7.3	7.4	7.35 1.0	1.54	8.89
d^3	7.7	7.6	7.65 1.0	1.58	9.23
d^4	7.6	7.7	7.65 0.1	1.58	9.23
too nearly sup.? g'	.	.			

11:38

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Monday March 20, 1916.

Shot no 320.

Scale R 955

Mc Series 586 YELLOW

	Mc # 9792		Pole - mc. 9798				9798 P.C.		9798 P.C.			
	sc.1	sc.2	sc.1	sc.2			sc.1	sc.2	sc.1	sc.2		
1							8.4	8.7	7.8	8.1	8.40 3 3	-3.96
2			off pl.									
3	B		" "						10.5		(off pl.)	-4.88
4	B.		B.						10.6	10.45 2± 10.3		-4.59
5	3.8	4.1	3.3	3.6	3.85 3 3	2,58	11.8	11.35 4 5 4 5	10.9			-4.92
6	5.0	5.3	5.1	5.4	5.35 1 0	1,63	12.4	12.05 3 5 3 5	11.7			-5.07
7	5.8	6.1	5.6	5.9	6.00 1 1	1.46	12.8	12.55 2 5 2 5	12.3			-5.09
8	7.2	7.5 B.	6.9	7.2 B.	7.35 1 2	0,68	13.8?	from 12.55 2 5 2 5	13.3			-5.52
9	8.3	8.6 8.1 8.65 01	8.1 8.4	8.1	8.25 2±	8.45 2 0 2 0	0,29	m.s.	m.s.			
10	8.9	9.2 9.21 9.20 00	8.4 8.7	8.5	8,60 1±	8.90 3 0 3 0	-002					
11	10.5		10.1			10.30 2 2	-094					
12	10.1		10.2	10.80 00 10.8		10.45 3 2	-0.87					
13	11.5	11.50 00 11.5	10.8	m.s.		11.15 3 5 3 5	-1,07					
14	12.0	12.05 01 12.1	11.2	11.20 00 11.2		11.62 4 3 4 3	-1,38					
15	12.4	12.40 00 12.4	11.9	11.90 00 11.9		12.15 2 5 2 5	-1,51					
16	13.0	13.00 00 13.0	12.2	12.15 0± 12.1		12.58 4 2 4 3	-1.64					
17	13.2	13.15 01 13.1	12.3	? from +p.		12.72 4 3 4 2	-1.68					
18	13.5 ~~13.8~~	13.50 00 13.5	def?			a	-1.94					
19	m.s.	d?	13.3	13.35 1 0 13.4			-1.41					
20			d. ~~m.s.~~									
21			m.s.									

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Monday, March 20, 1916.

Scale R

Mc Series 586 YELLOW

	Mc #9992 g sc.	Mc #9992 h sc.	Pole Mc 9998 g sc.	Pole Mc 9998 h sc.	Diffr. Im.		
1	+f.	+f.	.	.			
2	.	.	off fil.				
3	10.3	+f.	off fil.			4.5 4.49	-4.68
4	10.5 10.40	10.3 +f.	10.2	+f.	10.30		-4.54
5	11.4 11.40	11.4	10.9 10.85	10.8	11.12		-4.97
6	12.3 12.35	12.4	11.8 11.75	11.7	12.08		-5.37
7	12.1 12.10	12.1	12.3 12.30	12.3	12.50		-5.24
8	13.4	+f.	13.3 13.20	13.1	13.30		-5.37
9	m.s.	m.s.	13.8	?			-5.06
10			m.s.	m.s.			
11							

after Series completed.
12:02

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Card

Scale R

Mc Series 586 YELLOW

Mc 9793 D 5 9 – 15° alt. corr – .10

	sc.1	sc.1	sc.2	Cu – magn		P.C.	Cu	magn
						sc. 2		
5.0	1	4.8	5.1 (5.3) 5.20 1L	1.76	6.96	12.1	– 5.09	7.01
	2	5.6	5.9	1.42	7.32	12.4	– 5.16	7.24
	3	4.1	4.4	2.22	6.62	11.6	– 4.98	6.62
	4	6.6	6.9	0.93	7.83	13.1	– 5.33	7.77
	5	6.9	7.2	0.77	7.97	def?		
	6	7.1	8.0 B.	0.39	8.39	m.s.		
	7	7.9	8.2 8.0	0.27	8.47			
	8	7.5	7.8 B.	0.47	8.27			
	9	7.3	7.6 B. 1L	0.56	8.16	?.		
wrong unit.	10	8.0	8.3 8 7.1 8.20	0.27	8.47			
wrong unit. O. April 11, 16.	11	8.3	8.6 8 7.4 8.50 1L	0.12	8.62			
	12		10.2	– 0.80	9.40 +1.06			
	13		10.8	– 1.07	9 10.73			
	14		9.9	– 0.65	9.35			
	15		12.4	– 1.29	10.181			
	16		10.1 10.2 10.15 1 0	– 0.78	9.37			
	17		10.9 10.9 10.90 0 0	– 1.12	9.78			
	18		12.3 12.3 12.30 0 0	– 1.55	10.75			
Im very large & hazy	19		t.p.					
	20		13.3 13.4 13.35 1 0	– 1.76	11.59			
	21		12.1 12.1 12.10 0 0	– 1.50	10.60			
	22		13.7 13.5 13.60 1 Kor	– 1.78	11.82			
	23		13.1? t.p.	– 1.74	11.36			
	24		m.s. m.s.					
	25		m.s.					
	26		m.s					
	b?		t.p.					

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Monday March 20, 1916.

Scale R

Mc series 586. YELLOW

	Mc 9793	D5	Diffr. Inn. 9 – 15°	Alt. corr -.10
	g h	Rv Magn		
	Rc 2 Rc 2			
1	low 12.2 12.15 0° 12.1	-5.06 709 ~~-5.29~~ ~~6.86~~		
2	12.5 12.45 1° 12.4	-5.10 7.35 ~~-5.38~~ ~~7.72~~		
3	11.2 11.20 0° 11.2	-4.74 6.46 ~~-5.02~~ ~~6.18~~		
4	13.4 13.40 0° 13.4	-5.17 8.23 ~~-5.47~~ ~~8.19~~		
5	13.6 t.p.	-5.16 8.44		
6	″			
7	″			
8	.			
9	.			
10	.			
11				
12				

Too faint. Images are much blurred.

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Card

Scale R

Mc Series 586. YELLOW

	Mc 9794	Eros 1901	9 00 00				Q.C. corr +.03		
		Cu	Magn	Diff.	Inn.	Cu	Magn	Q.C.	Cu	Magn
	sc.1 sc.2			sc.1 sc.2				sc.2		
1	5.2 5.5	h63	7.13	12.2 12.25 12.3	01	-5.30	7.20 6.95	12.2	-5.12	7.10
2	6.5 6.8	0.96	7.76	13.3 t.p.		-5.30	8.00	13.3	-5.38	7.92
3	7.0 7.3	0.72	8.02	13.4 13.45 13.5	01	-5.26	8.19	13.5	-5.45	8.05
4	8.4 8.7 9.1	8.90	32 -0.10	8.80	n.s.			±		
5	10.5	-0.96	9.54	n.s.						
6	10.9 10.85 10.8	-1.10	9.75							
7	11.4 11.35 11.3	-1.28	10.07							
8	12.1 12.20 12.3	-1.53	10.67							
9	12.4 12.40 12.4	-1.59	10.81							
10	12.9 12.90 12.9	-1.70	11.20							
11	13.4 13.40 13.4	-1.77	11.63							
12	13.4 13.50 13.6	-1.78	11.72							

Leg for Eros.

May 4.	A	12.2 12.20 12.2	-1.53	10.67			
	B	11.3 11.30 11.3	-1.25	10.05		n.s.	
on Extreme Edge	C	5.7 5.4	1.50	7.20		12.2 -5.12	7.10
	a	t.p.					
	b	n.s.					
	c	t.p.					

"Ident of a + b uncertain."

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Monday March 20, 1916.

Copied 13 23:100

Scale R

Mc series 586 YELLOW

Card

Mc 9795 | 05 | 9 +15° | Alt. corr +.09

		Cu	Magn	P.C.	Cu	Magn
	sc.1 sc.2 sc.2			sc.1 sc.2		
1	3.1 3.4	2.73	6.13	11.1	-4.84	6.26
2	6.2 6.5	1.10	7.60	13.1	-5.33	7.77
3	3.5 3.8	2.54	6.34	11.3	-4.90	6.40
4	5.3 5.6	1.57	7.17	12.2	-5.12	7.08
4a	7.4 7.7 B.	0.50	8.20	13.7	-5.49	8.21
5	7.6 7.9 B.	0.43	8.23	14.0? low		
6	8.5 8.8 9.1 8.95 ±1	-0.12	8.83			
7	6.5 6.8 B.	0.97	7.77	13.2	-5.39	7.83
8	9.4	-0.38	9.02	m.s.		
9	8.1 8.4 8.3 8.35 ±1	0.20	8.55	7?		
10	9.4	-0.38	9.02			
11	9.5	-0.44	9.06			
12	10.3	-0.85	9.45			
12a	10.8	-1.07	9.73			
13	10.4 10.40 ±0 10.4	-0.90	9.50			
14	8.9 9.2 9.25 ±1 9.3	-0.30	8.95			
14a 15	11.5 11.45 ±0 11.4	-1.30	10.15			
15	10.4 10.30 ±1 10.2	-0.85	9.45			
16	12.5 12.70 ±2 12.9	-1.66	11.04			
17	12.2 12.20 ±0 12.2	-1.53	10.67			
18	12.2 12.20 ±0 12.2	-1.53	10.67			
19	12.3 12.30 ±0 12.3	-1.55	10.75			
20	13.1 13.20 ±1 13.3	-1.75	11.45			
20a	13.2 13.25 ±1 13.3	-1.76	11.49			
21	13.4 13.35 ±1 13.3	-1.76	11.59			
22	m.s. m.s.					
23	m.s.					

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Monday March 20, 1916 -

Scale R Mc Series 586. YELLOW

Mc 9495 C5 Diffr Images 9+15 Alt. corr +.09

	pec q	pec h	Rv magn	
1	10.8	10.75 0 ÷ 10.7	58 −4.84	6.17 ~~5.91~~
2	12.6	12.60 00 12.6	12 ~~−5.33~~ 58 ~~50~~	48 ~~7.24~~
3	10.8	10.75 0 ÷ 10.7	~~50~~ −4.84	6.17 ~~5.91~~
4	12.2	12.20 00 12.2	05 ~~−5.30~~	7.15 ~~6.90~~
4a	f.			
5	13.5	f.	16 ~~−5.27~~	34 ~~8.23~~
6	13.7	n.s.	14 −5.26	56 ~~8.50~~ 8.07
7	13.1	13.25 ÷ 2 13.4	18 ~~−5.30~~	~~7.95~~
8	n.s.	n.s.		
9				
10				
11				
12				

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Monday March 20, 1916.

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Scale R

Mc Series 586. YELLOW

Mc 9796 — R Leo. Min. — 9 36 + 35.0 — Det. cor +.12

		Cu	Magn	Diffs	Im.	Cu	Magn	Cc	Cu	Magn
Seq. for R Leo. Min.	sc.1 sc.2			q	h			sc.2		
(diffs. im. = triang. shape) a	.			+.	+.			9.8	−4.47	5.33
b	.			10.4 10.3	10.35 01	−4.67	5.69 5.68	10.9 10.8	−4.76	6.09
c	B.			10.4 10.4	10.40 00	−4.69	5.95 5.71	10.8	−4.76	6.04
d	4.4 4.7	2.22 05	6.75	11.8 12.1	11.95 21	−5.26	6.98 5.69	11.8	−5.03	6.77
f'	4.7 5.0	2.05 1.57	6.57	11.8 12.1	11.95 21	−5.26	6.98 5.69	12.1	−5.10	7.00
g	5.1 5.4	1.80 66	7.06	12.3 12.2	12.25 10	−5.30 05	7.20 6.95	12.1	−5.10	7.00
f	5.2 5.5	1.75 62	7.12	12.6 12.4	12.50 11	−5.33 10	7.40 7.17	12.27	−5.23	7.47
q	5.8 6.1	1.46 30	7.40	+. 12.6		−5.33 13	7.47 7.27	12.8	−5.26	7.54
h	6.5 6.8	0.97	7.77	13.2 13.3	13.25 01	−5.30 18	8.09 7.95	13.4?	−5.42	7.98
k	7.3 7.6B.	0.56	8.16	+. 13.5		−5.26 16	8.34 8.24	m.s.		
l	8.3 8.6 8.4 8.50 12	0.10	8.60	m.s.	m.s.					
m	8.2 8.5 8.3 8.40 12	0.17	8.57							
m'	9.7	−0.55	9.15							
n	9.9	−0.65	9.25							
p	10.5 10.45 10 10.4 10	−0.92	9.53							
o	10.5 10.45 10.4	−0.92	9.53							
o'	10.6 10.65 01 10.7	−1.00	9.65							
q	11.4 11.35 01 11.3	−1.28	10.07							
r	12.1 12.1 12.10 00	−1.50	10.60							
r'	12.2 12.2 12.20 00	−1.53	10.67							
s	+.h. 12.9?	−1.78	11.20							
s'	13.3 ± *	−1.76	11.54							
y	m.s.									
Var.	10.2	−0.80	9.40							

diffs. im. of wrong star there?

* Im very sharp? defective?

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Monday March 20, 1916.

Copied 1321:152

Scale R

Mc Series 586 YELLOW

Mc 9796 cont.

Alt. corr +.12

		Cu Magn		Diffr. Im. Cu Magn			P.C. Cu Magn		
1 Leo Min	sc.1 sc.2			g sc.2	h		sc.2		
1	6.5 6.2	1.10	7.60	12.80 12.7	12.9	16 -5.33	7.64 ~~7.47~~	12.7	-5.23 7.47
2	6.5 6.2	1.10	7.60	13.00 13.1	12.9	17 -5.32	~~8.83~~ ~~7.68~~	13.1	-5.34 7.76
R Leo Min = 3	see other page								
β	9.2	-0.27	8.93				n.s.		
α	9.9	-0.65	9.25						
w.s. α'	~~7.3~~ 10.3	-0.85	9.45						
α²	11.0	-1.16	9.84						
γ	11.3 12.75 10	-1.25	10.05						
δ	11.7 12.20 11.8	-1.38	10.37						
a	12.2 12.2	-1.53	10.67						
c	12.2 12.25 01 12.3	-1.54	10.71						
d'	12.2 12.20 06 12.2	-1.53	10.67						
b	12.3 12.25 19 12.2	-1.54	10.71						
d	12.9 12.75 12 12.6	-1.67	11.08						
e	t.p. 13.1	-1.74	11.86						
e	n.s. n.s.								
f	n.s.								
g									
d²	n.s.								
h									
Var	11.8	-1.90	9.90						

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Monday March 20, 1916.

Copied 1321:137

Scale R

Mc Series 586 - YELLOW

	Mc 9197		Evos 1901	9 50 - 7.5		Att. corr -.02	
			Cu Magn.	Diff. Im.	Cu Magn	Sc.	Cu Magn
Ref Seq centre.	sc.1	sc.2		g h		sc.2	
1	4.7 4.4		2.05	6,75	11.45 10 11.5 11.4	-4.82 -5.12	6.63 6.33	11.4	-4.94	6.46
2	7.9 7.6 8.16 8.7 8.3 8.4	B 8.7	0.43	8,33	13.40 00 13.4 13.4	-5.27	8,13	13.4?	-5.42	7.98
3		8.68 03 02 9.0	0.05	8.73	n.s. n.s.			n.s.		
4		9.4	-0.38	9.02						
5		10.3	-0.85	9,45						
6		10.8 10.75 01 10.7	-1.06	9,69						
7		11.4 11.45 01 11.5	-1.30	10.15						
8		12.1 t.p.?	-1.50	10,60						
9		12.6 12.60 00 12.6	-1.64	10,96						
10		13.2 13.15 01 13.1	-1.74	11,41						
11		t.p.								
12		?								
Evos 1901 May 20										
~~A~~		11.3 11.30 00 11.3	+.25	10,05						
AB		11.6 11.50 11 11.4	-1.32	10,18						
D	8.0 7.7	B	0.40	8,40	? ? (Image hazy)			13.5	-5.41	
F		11.3 11.25 10 11.2	-1.22	10,03						
G		10.6 10,60 00 10.6	-1.00	9.60						
E		11.9 11.90 00 11.9	-1.45	10.45						
Ident. uncertain b		m.s								
c		12.3 12.30 00 12.3	-1.55	10,75						

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Tuesday March 21. 1916.

Plotted 289

Scale R 11— Scale measures of additional cs. for δ Cancri.

C 12465 & Image 91.

Copied 9a:153

Copied Bk 9a:152

	magn.
3	9.42
)	9.60
	9.64
)	10.03
)	10.85
)	11.45
2	11.58
e	magn.
	11.05

δ Cancri

~~Four~~ 5 additional stars, d^1, d^2, d^3, d^4, q

Remeasure regions through ~~4~~ n, with additional stars, ~~for parallax comparisons only~~, on all MC plates.

Also on 4 1 AC or A 2 plates, including AC 12168 (marked)

Reduce by method of Relative magnitudes, using magnitudes in Book 19, p. 52

MC 4839 not meas.
5161 meas.
5176 "
5045 " (yellow).
4998 "
8175

5161
5175
4998 – 2 exps.
8175

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1916phae.proj.10740

Tuesday March 21. 1916.

Plotted 289

Scale R. Scale measures of additional o.s. for S Cancri.

11— C 12465 & Image 91.

Copied Bk 9a: 152

Copied 9a: 153

	Sc. 1	Sc. 2	Sc. 2		Diff.	Curve	Magn.
e	9.7 v.f.	9.6	9.65 10		-0.16	-0.23	9.42
e'	10.3	10.3	10.30 00		-0.71	-0.70	9.60
f	10.4	10.3	10.35 0±		-0.84	-0.71	9.64
g	11.2	11.1	11.15 0±		-1.07	-1.12	10.03
h	12.5 v.f.	12.4	12.45 10		-1.62	-1.60	10.85
l	13.3	13.2	13.25 10		-1.82	-1.80	11.45
m		13.4	13.4		-1.72	-1.82 Curve	11.58 magn.
g'	12.8	12.7	12.75 0±			-1.70	11.05

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Tuesday March 21, 1916.

Plotted 289

Scale $\frac{P}{C}$ Scale measures of additional plates for S Cancri

C12441 C.S. S Cancri Image 91.

Copied 9a:153 ← Copied Bk 9a: 152

		sc $\frac{1}{2}$	sc 2			Diff.	Curve	Magn.
	e	7.4	7.4	7.40	.0	2.09	+.98	9.38
wrong unit	e'	7.1	7.1	7.70	.0	1.89	1.91	9.61
	f	7.1	7.1	7.70	.0	1.81	1.91	9.61
	g	8.4	8.5	8.45	.1	1.63	1.78	10.23
	h	9.4	9.4	9.40	.0	1.43	1.70	11.10
	l	9.6 low	9.6	9.60	.0	1.83	1.68	11.28
	m	9.9	9.9	9.90	.0	1.78	1.67 Curve	11.57 Magn.
	g'	9.5	9.5	9.50	.0		+1.69	~~7.81~~ 11.19

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Tuesday March 21, 1916.

Plotted 289 → Copied 9a: 152

Scale R P Scale measures of additional stars for δ Cancri cont-

C 12 4.15. Image 91.

Copied 9a: 153

	sc 1	sc 2	sc 3		Diff.	Curve	Magn.
e	6.4 vis. 6.1		6.4?	vis.	6.25 ± 2	3.24	3.18	9.43
e'	6.5 6.2		6.7		6.45 ± 3	3.14	3.07	9.52
f	6.7 6.4		6.6		6.50 ± 1	3.01	3.05	9.55
g		7.4 8.4	7.4		7.40 00	2.68	2.73	10.13
h	(g0 = wrong star)	9.0	8.4	(is there an image sup. on h?)	8.40 00	2.43	2.48	10.88
l		8.7	8.7		8.70 00	2.73	2.41	11.11
m		9.7	9.4?		9.55 ± 2	2.13	2.27 Curve	11.82 Magn.
g'		8.6	8.6		8.60 00		2.44	11.04

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Tuesday March 21, 1916.

Plotted 289 Copied 9a:152

Scale P Scale measures of c.s. S Cancri

C 12414 Imag 91

Copied 9a:153

	sc.1	sc.2	sc.3		Diff.	Curve	Magn.
e		7.1	6.8	6.95 12	2.54	2.54	9.49
e'		7.3	7.21	7.25 10	2.34	2.42	9.67
f	6.9	6.6	6.8	6.70 11	2.81	2.70	9.40
g		7.7	7.7	7.70 00	2.38	2.37	10.07
h		8.5	8.4	8.45 10	2.38	2.35	10.80
l		~~9.5~~ w.s.	9.0	9.0	2.43	2.38	11.38
m			9.3	9.3	2.38	2.40 Curve magn.	11.70
g'		8.5	8.6	8.55 10		2.36	10.91

11:48

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Tuesday March 21, 1916.

Plotted 289

Copied 9a : 152

Scale P

1:20

Scale measures of C.S. S Aurii

C 12 2 40

Image 61.

Copied 9a : 153

		sc 1	sc 2	sc 2		Diff.	Curve	magn.
	e	1.3	1.3	7.30 .0		2.19	2.19	9.49
	e'	1.4	1.4	7.40 .0		2.19	2.18	9.58
	f	~~1.3~~ 1.3	1.4	7.35 .0		2.16	2.18	9.53
	g	1.9 v.f.	1.8	7.85 .0		2.23	2.12	9.97
	h	9.3	9.4	9.35 .0		½.48	2.00	11.35
	l	9.5	9.4	9.45 .0		1.98	2.00	11.45
w.s.	m	~~10.0~~ 9.4	9.6	9.6 9.60 .0		2.08	2.00 Curve	11.60 magn.
	g'	~~9.3~~	9.3	9.35 .0			2.00	11.35

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Tuesday March 21, 1916.

Plotted 289

Scale R

Scale Measures of D.S. S Cancri.

Copied 9a: 152

C 12606. Image 81.

Copied 9a: 153

	sc.1	sc.2	sc.2		Diff.	Curve	Magn.
e	10.5	10.6	10.55	±0	-1.06	-1.06	9.49
e'	10.9	10.8	10.85	10	-1.26	-1.26	9.59
f	10.6	10.6	10.60	00	-1.09	-1.09	9.51
g	11.7	11.7	11.70	00	-1.62	-1.63	10.07
h	12.7	12.7	12.70	00	-1.87	-1.82	10.88
k	13.3	13.2	13.25	10	-1.82	-1.86	11.39
m	13.5	13.6	13.55	±0	-1.87	-1.87	11.68
g'	13.4	13.3	13.35	01		-1.86	11.49

Curve magn.

1: 40

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Monday March 27. 1916.

Plotted 289

Scale R P Scale measures of C.S. S Cancri. Copied 9a: 152

C 12414 (Remeas.) Image 81. See f. 28 for Syn. 91.

Copied 9a: 153

	sc.1	sc.2	sc.2		Diff.	Curve	Magn.
a	6.7	6.4	6.7	6.55 ±1	2.94	2.86	9.41
a'	6.9	6.96	7.0	6.80 ±2	2.79	2.81	9.61
f		6.7	6.8	6.75 ±0	2.76	2.82	9.57
g	7.5	7.2	7.4	7.30 ±1	2.78	2.70	10.00
h		8.6	8.7	8.65 01	2.18	2.50	11.15
l		8.6	8.7	8.65 01	2.78	2.50	11.15
m		~~8.4~~	9.1	9.1 .a =	2.58	2.47 Curve	11.57 magn.
g'		8.7	8.6	8.65 10		2.50	11.15

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Monday March 27, 1916.

Scale P Scale measures C.2. S Cancri. Plotted 289 Copied 9a : 152

C 12270 Image 71. Copied 9a : 153

	sc.1	sc.2	sc.3	Mean	Diff.	Curve	Magn.
e	7.2	7.1		7.15 01	2.34	2.32	9.57
e'	7.3	7.3		7.30 00	2.29	2.27	9.57
f	7.4	7.4		7.40 00	2.11	2.22	9.62
g	7.9	8.1		8.00 11	2.08	2.02	10.02
h	9.1	9.3		9.20 11	1.63	1.75	10.95
k	9.7	9.7		9.70 00	1.73	1.64	11.34
m	?	?		.	-		
						Curve	Magn.
g'	9.2	9.2		9.20 00		1.75	10.95

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Monday March 27, 1916.

Scale ▽ Scale meas. C.S. S Cancri.

Plotted 289 Copied 9a:152

C 12606 Image 11.

Copied 9a:153

	sc 1	sc 2	sc 3	Mean	Diff.	Curve	Magn.
e		7.2	7.1	7.15 ±0	2.34	2.23	9.38
e'		7.5	7.4	7.45 10	2.14	2.21	9.66
f		7.3	7.3	7.30 ±0	2.21	2.22	9.52
g		7.8	7.8	7.80 ±0	2.28	2.20	10.00
h		8.1	8.8	8.75 ±0	2.08	2.17	10.92
l		9.2	9.1	9.15 ±0	2.28	2.19	11.34
m		9.5	9.5	9.50 ±0	2.18	2.22 Curve	11.72 Magn.
g'		9.1	9.2	9.15 ±0		2.19	11.34

11:30.

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1916phae.proj.10740

Friday, February 2, 1917.

Scale R. Measures of Mc Cormick plates for R Comae Ber. 12h +20°

2:05 +.50

B 75.

BK 21:151

		1st Exp. sc.1	sc.2	sc.3	Mean	Diff.	2nd exp. sc.1	sc.2	sc.3	Mean	Diff.
f =	1	5.1 5.4			5.4	6.00	11.9 poor	12.1		12.00 1	-0.60
n =	2	6.0 6.3			6.3	-	12.6	12.2 poor		12.40 2	.
p =	3	4.0 4.3			4.3	6.78	10.3 poor	10.2 poor		10.25 10	+0.78
	4		11.3	11.1 10.4	11.20 1	.	n.s.			.	.
	5		8.1	8.2	8.15 10	.	f.			.	.
o =	6	3.7 4.0			4.0	6.92	10.5	10.2		10.35 1	+0.57
n =	7	7.1 7.4			7.4	.	13.4	13.1		13.25 2	.
m =	8		10.9	10.8	10.85 10	.	f.	f.		.	.
f =	9	~~f~~B.			.	.	19? 2.2?			2.2? 2	5.41?
	10	7.4 7.5			7.5	.	f.			.	.
	11	.	9.2	9.1	9.15 02	.	n.s.			.	.
	12		10.2 poor	10.1	10.15 02	.					
	13	7.1 7.4			7.4	.					.
	14		10.3? poor	10.3	10.30 00	.					.
l =	15	2.1 2.4			2.4	7.39	7.1 7.4			7.4	2.39
m	.	2.4 2.7			2.7	7.42	7.7 8.1			8.1	2.02
t			9.2	9.1	9.15 02	.					

(Vars) R Com. +f.

2:30

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1916phae.proj.10740

Tuesday, February 6, 1917

Scale P. 2.45 — Measures of Mc Cormick plates for R Cornae Ber. B80

		1st Exp. sc 1	sc 2		Mean	Diff.	2nd Exp. sc 2	Diff.
q =	1	4.1	4.4	B.	4.4	7.00	8.2	3.20
r =	2	5.3	5.0	5.2	5.10 ± 1	.	8.9	.
p =	3	4.0	3.7	B.	3.7	7.33	7.4? poor.	3 4.63?
	4			8.2	8.2	.	ns.	.
	5	6.8	6.5	6.8	6.65 ± 2	.	.	.
o =	6	3.9	3.6	B.	3.6	7.32	+p.	.
n =	7	5.8	5.5	5.3	5.40 ±	.	9.4	.
m =	8			8.2	8.2	.	.	
k =	9	B.		B.	.	.	B.	
	10	5.6	5.3	5.3	5.30 00	.	.	
	11	6.8	6.5	6.6	6.55 ± 0	.	.	
	12			7.2	7.2	7.2000	.	
	13	5.8	5.5	5.4	5.45 10	.	9.3	.
	14			7.6	7.7	7.65 01	.	.
l =	15	2.9	2.6		2.6	7.19	5.4	4.39
m		2.9? poor	2.6?		2.6?	7.52?	+p.	.
t		6.7	6.4	6.7	6.55 ± 1	.	.	.
Var.				7.2	7.2	.	.	.

Images on 2nd Exposure very poor.

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Tuesday, February 6, 1917.

Scale ~~11~~.0 Measures of McCormick plates for R Com. Ber.

B 78

		1st Eqn.			no 2nd eqn.			
		sc.1	sc.2	Mean	Diff.	Diff. Mean of 75 and 80	Curve	Magn.
q =	1	5.1 4.8	B	4.8	6.60	6.66	6.64	11.44
r =	2	6.1 5.8	5.8	5.80 00	·	6.08	6.17	11.97
f =	3	3.9 3.6	B.	3.6	7.43	7.37	7.38	10.98
	4		7.	·	·	·	·	·
	5		7.7	7.7	·	5.07	5,23	12,93
v =	6	3.4 3.1	B.	3.1	7.82	7.80	·	·
p =	7	6.3 6.0	6.2	6.10 ±1	·	6.12	6.01	12.11
u =	8		7	·	·	·	·	·
b =	9	B.	B.	·	·	·	·	·
	10	6.3 6.0	6.2	6.10 ±1	·	6.15	6.01	12,11
	11		7.86	7.7 7.65 01	·	5.27	5.27	12.92
	12		81	82 8.15 ±0	·	5,17	5.00	13.15
	13	t/v.	t/v.	·	·	·	·	·
	14		86	86 8.60 00	·	4.88	4.82	13.42
l =	15	2.6 2.3	B	2.3	7.49	7.54	·	·
	m	B	B.	·	·	·	/	/
	t		8.1?	8.1?	·	4.82?	5,02	13,12?

R

3:15

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Saturday March 17, 1917

Sheet 373

Scale Y It plates for Messier 15. Long Exp.

9— It 1746 21 25 +12 0

		B	C			Diff. from "Catalog"		
		sc	sc	sc	Mean	Magn.	Curve	Magn.
a	1	6.3			6.3	7.51	7.70	14.00
b	1	6.6	6.3		6.45 2	7.68	7.64	14.09
c	8	6.8 9	7.1		7.00 1	7.36	7.40	14.40
d		7.2 7.1	7.3		7.20 1	7.25	7.29	14.49
e		7.8 7.5	7.4		7.45 1 0	7.19	7.19	14.64
f		7.7 7.5	7.4		7.45 1 0	7.16	7.19	14.64
g		7.8 7.6	7.6		7.60 0 0	7.11	7.11	14.71
h		8.2 7.9	7.7		7.80 1 2	7.11	7.00	14.80
k		8.5 8.2	8.3		8.25 0 1	6.75	6.75	15.00
close to another star	l		8.5?	8.7	8.60? 1 1	6.52	6.59	15.19?
	m		8.8	8.8	8.80 0 0	6.33	6.50	15.30
	n		8.8	8.8	8.80 0 0	6.28	6.50	15.30
	o		9.1	9.3	9.20 1 1	6.36	6.36 3	15.53
v.v. sharp-	p		9.6	10.1	9.85 2 3	6.10	6.06	15.91
	q		9.5	9.8 9.7	9.75 0 1		6.11	15.86
	r							

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Saturday March 17, 1917.

Scale Y H plate for m 15. Sheet 373

H 1745 Exp. 52m

	scB	scC.	pC.	Mean	Diff. from "Grating" magn.	Curve magn.	magn.
a	6.7			6.7	7.11	7.38	14.08
b	6.8	6.6		6.70 ±2	7.43	7.38	14.08
c	6.9	7.2		7.05 ±2	7.31	7.23	14.28
d	7.3 7.2	7.4		7.30 ±1	7.15	7.15	14.46
e	7.5 7.4	7.6		7.50 ±1	7.14	7.06	14.56
f	8.1 7.8	7.9		7.85 01	6.76	6.89	14.74
g	8.1 7.8	7.8		7.80 00	6.91	6.91	14.71
h	8.3 8.0	8.1		8.05 01	6.86	6.78	14.83
k	def.	def.		.	.	.	.
l		8.5	8.5	8.50 00	6.62	6.55	15.05
m		8.5	8.1	8.60 ±1	6.53	6.50	15.10
n		8 7.7	8.1	8.70 00	6.38	6.45	15.15
o		9.3	9.3	9.30 00	6.26	6.19	15.49
p		~~7.9~~ 9	q.	.	.	.	.
q		10.4	10.5	10.45 01	.	.	.
s							

9:50

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Wednesday March 21, 1917.

Scale R. Remeasures of Ref. Seq. + measures of Seq. for m 15. Sheet 371
1:25 me 6283 ~~288~~

	sc.1	sc.2	Mean	Diff. from mC 6283 9a:47	P.C. sc.2	sc.2 Mean	Diff. from mC 6283 9a:47
1	B.				10.3	10.4 10.35 ±0	-2.49
2	B				11.6	11.6 11.60 00	-2.44
3	7.1 7.4		7.4	2.83	12.5	12.7 12.60 ±1	-2.68
4	7.0 7.3		7.3	2.93	12.5	12.7 12.60 ±1	-2.56
5	7.1 7.4	B.	7.4	2.83	12.6	12.7 12.65 01	-2.67
6	8.1 8.4	8.3	8.35 01	2.52	13.4	13.4	-2.51
7	8.X 8.5	8.1	8.60 ±1	2.06	13.5	13.5	-2.50
8	8.8 9.1	9.1	9.10 00	2.27	13.9	13.9	.
9		9.6	9.6	1.97	N.S.		
10		10.1	10.1	2.08			
11		10.6	10.6	1.79			
12		10.7	10.7	1.90			
13		11.1	11.2 11.15 ±0	1.45			
14		11.4	11.4	1.90			
15		11.8	11.8	1.87			
16		11.9 ~~12.4~~	11.9	11.9 00	1.63		
17		12.5	12.6	12.55 ±0	1.39		
18		12.8	12.8	12.80 00	1.73		
19		13.1	13.0	13.05 10	1.57		
20		13.4	13.4	13.40 00	1.62		

Copied 9a: 202

				Curve	Magn.		Curve	
α	7.1 7.4	B.	7.4	2.85	10.25	12.8	-2.59	10.21
β	8.0 8.3	8.2	8.25	102.50	10.75	13.3	-2.52	10.78
γ		9.2	9.2	2.13	11.33	N.S.		
δ		9.2	9.2	2.13	11.33			
ε		8.6	8.6	2.34	10.94			

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Wednesday March 21, 1917.

Scale R. Remeasures M15 cont. Copied 9a:202

Mc 6 2 8 3 8 8.

	sc. ½	sc 7	sc 2	Mean	Curve	Magn.
y		9.7	9.8	9.75 ±0	2.00	11.75
n		10.6	10.6	10.60 00	1.85	12.45
θ		~~11.1 13.5~~	~~10.9 12.4~~	11.00 ±1	1.78	12.78
K		11.3	11.3	11.30 00	1.72	13.02
a		12.2	12.2	12.20 00	1.60	13.80
b		12.6	12.6	12.60 00	1.60	14.20
c		12.6	12.7	12.65 01	1.60	14.25
d		12.7	12.7	12.70 00	1.60	14.30
e		12.7	12.8	12.75 ±0	1.60	14.35
f		12.9	12.9	12.90 00	1.60	14.50
g		13.0	13.2	13.10 ±1	1.60	14.70
h		13.5	13.5	13.50 00	1.60	15.10
k		13.5	13.5	13.50 00	1.60	15.10
l		13.7	13.6	13.65 10	.	.
m		13.8	13.9	13.85 01	.	.
n		f.	f.			
o		n.s.				
p						

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Wednesday March 21, 1917.

Scale R Remeasured Messier 15 Sheet 371

M C 6312

Ref. Seq. remeas. (see 09:128)		sc.1	sc.2		Mean		Diff. from M C 6312 9a:47	B.C. sc.2	sc.2	Mean		Diff. from M C 6312 9a:47
	1	B.						10.4	10.4	10.40	oo	-1.96
	2	B						11.8	12.6	11.70	1	-2.12
	3	~~8.4~~ 7.7			7.7		2.42	12.1	12.1	12.70	oo	-2.66
	4	7.4 7.7	B.		7.7		2.42	12.8	12.6	12.70	1	-2.66
	5	7.8 8.1	7.5 8		7.95	1	2.40	12.8	12.8	12.80	oo	-2.47
	6	8.1 9.0	8.1		8.85	2	2.22	13.6?	q	13.6?		-2.15
	7	8.1 9.0	8.1		8.85	2	2.00	13.4		13.4		-2.59
	8	8.9 9.2	9.2		9.20	oo	2.03	13.7		13.7		-2.10
	9	10.1			10.1		1.46	w.s.				
	10	10.3			10.3		1.96					
	11	10.9	10.8		10.85	1	1.77					
	12	10.9	10.9		10.90	oo	1.84					
	13	11.3			11.3		1.44					
	14	11.5			11.5		1.24					
	15	11.9			11.9		0.78					
	16	11.9			11.9		1.69					
	17	12.3	12.1		12.20	1	1.75					
	18	12.9	12.9		12.90	oo	1.60					
	19	13.3	13.5		13.40	1	1.98					
	20	13.4	13.4		13.40	oo	1.83					
						Curve	Magn.			Curve	Magn.	
α	7.2 7.5	B.			7.5		2.51 10.01	12.6	12.6	-2.47	10.13	
β	7.8 8.1	8.0			8.05	1	2.35 10.40	13.3	13.3	-2.58	10.72	
γ	8.8 9.1	9.1			9.10	oo	2.04 11.14	14.0	14.0	.	.	
δ	8.8 9.1	9.3			9.20	1	2.01 11.21	14.0	14.0	.	.	
ε	8.1 8.4	8.5			8.45	0	2.25 10.70	q				
3		9.4			9.4		1.96 11.36					

Copied 9a:202

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1916phae.proj.10740

Wednesday March 21, 1917.

Scale R

Messier 15. Copied 9a:202

Mc 6312

	scr	scr	Mean	Curve	Magn.
η	10.4	10.4	10.40 00	1.74	12.14
θ	~~13.6~~ 10.8 ws	~~13.4~~ 10.7 ws	10.75 01	1.70	12.45
K	11.4	11.4	11.40 00	1.63	13.03
a	11.8	11.8	11.80 00	1.60	13.40
b	12.5	12.4	12.45 10	1.64	14.09
c	12.5	12.6	12.55 10	1.66	14.21
d	12.7	12.6	12.65 10	1.68	14.33
e	12.7	12.8	12.70 00	1.70	14.40
f	12.8	12.7	12.75 01	1.71	14.46
g	13.1	13.0	13.05 10	1.78	14.83
h	13.4	13.5	13.45 01	1.86	15.31
k	13.5	13.6	13.55 10	1.88	15.43
l (close to another star)	13.5	13.6	13.55 10	1.88	15.43
m	13.9	13.8	13.85 10	.	.
n	f?	f?			
o	ws.	ws			
p	ws.				
q					
f					

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Wednesday March 21, 1917.

Scale R Messier 15 Sheet 371.

Mc 5990

Seq remeas (m47:48)		sc 1	sc 2	sc 3	Mean	Diff. from Mc 5990 9a:47	P.C. sc 2	sc 2	Mean	Diff. from Mc 5990 9a:47
	1	B.					10.4	10.1	10.25 2	-1.91
	2	B					11.7 9	11.8	11.75 1 0	-2.45
	3	B.					12.7	12.6	12.65 1 0	-2.69
	4	6.2 6.5			6.5	3.47	9	9		
	5	6.5 6.8			6.8	3.38	13.1? 9		13.1?	-2.99
	6	7.5 7.8			7.8	3.07	13.5		13.5	-2.80
	7	7.6 7.9	B.		7.9	2.91	13.5		13.5	-2.80
	8	8.3 8.6	8.3		8.45 2 1	2.69	1.			
	9	9.1 9.4	9.3		9.35 0 1	2.43				
	10		9.8		9.8	2.32				
	11		10.1		10.1	2.34				
	12		10.4		10.4	2.13				
	13		10.7		10.7	1.94				
	14		11.3		11.3	1.68				
	15		11.4	11.5	11.45 0 1	1.91				
	16		11.8?	11.7	11.75? 0 1	1.77				
	17		12.3	12.6	12.45 1 2	1.69				
	18		13.1	13.1	13.10 0 0	1.46				
	19		9	9	.	.				
	20		13.7? 9	13.7	13.70? 0 0	1.49				

			Curve	Magn.			Curve	Magn.
α	6.3 6.6		6.6	3.45	10.05	12.8	12.8	-2.75 10.05
β	7.3 7.6		7.6	3.07	10.67	13.4	13.4	-2.86 10.54
γ	8.3 8.6		8.6	2.68	11.28	13.7	13.7	-2.88 10.82
δ	8.1 9.0		9.0	2.54	11.54	n.s.		
ε	8.0 8.3		8.3	2.79	11.09	9		

Copied 9a:202

Images on this plate are very poor.

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Wednesday
~~Thursday~~ March 22, 1917.

Scale R. Sequence for M.S. Copied 9a:202
M 5990.

	sc.2	sc.1	Mean	Curve	Magn.
Z	9.2		9.2	2.47	11.67
θ	~~13.1~~ 11.1		11.1	1.90	13.00
K	11.5		11.5	1.81	13.31
a	12.3	12.1	12.20 ±	1.67	13.87
b	12.6	12.7	12.65 01	1.59	14.24
c	13.0	13.1	13.05 01	1.52	14.57
d	13.0	13.0	13.00 00	1.53	14.53
e	13.2	13.4	13.30 ± 1	1.49	14.79
f	13.1	13.4	13.25 ± 2	1.50	14.75
g	13.2	13.4	13.40 00	1.48	14.88
h	13.4	13.4	13.70 00	1.44	15.14
k	13.8	13.7	13.75 01	·	·
l	q.	q.	·	·	·
m	14.0	14.0	14.00 00	·	·
n	ns.	ns.			
o					
p.					

3.20

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Thursday March 22, 1917.

Scale a H 3 12:45.

Sequence for M 15. 1751.

Sheet 372

Diffr Dm.

scale a H 3 used for the first trial

Personal Correction & first scale.

Reading Corr.

> 7.1 0.0

7.1 & 7.2 -0.1

7.4 & 7.6 -0.2

7.7 & 7.9 -0.3

8.0 & 8.2 -0.4

8.3 & 8.5 -0.3

8.6 & 8.8 -0.6

< 8.8 -0.7

	sc.1	sc.2		Diff. from Adopted magn. 9a.202a	sc.1	sc.2	Mean grating	2-1		Diff. from adopted
α					5.9 5.9 6.1	5.9 5.9 6.1	6.00	2	2	4.12
β					6 6	6.3 6.3 6.3	6.30	1	0	4.34
γ					7.2 7.3	7.3 7.2 7.1	7.20	1	2	4.05
δ					7.6 7.4 7.6	7.5 7.3 7.3	7.40	0	2	3.96
ε	B.		2-1		7.3 7.2 7.2	7.2 7.1 7.2	7.18	1	0	3.73
ζ	B				8.1 8.1 8.1	8.0 8.0 7.9	8.02	6	1	3.57
η	4.2	4.2		4.2 8.10	8.9	9.1	9.00			3.30
θ	4.8	4.8 4.9	1	4.85 7.89			to close.			
K	5.2	5.2 5.2	0	5.20 7.92	9.4	9.3	9.35			3.77
α	6.2	6.2 6.2	0	6.20 7.49	N.S.	N.S.				
b	6.5	6.5 6.8	1	6.45 7.73						
c	6.6	6.6 6.9	3	6.75 7.59						
d	6.9	6.9 7.0	1	6.95 7.44						
e	7.3	7.2 7.3	0	7.25 7.26						
f	7.1	7.0 7.1	0	7.05 7.52						
g	7.6	7.4 7.3	3	7.35 7.45						
h	7.9	7.6 7.7	1	7.70 7.48						
k	7.9	7.6 7.6	3	7.60 7.66						
l										
m	8.1	8.1 8.1		8.1 8.1						
m'	8.6	8.6 8.0		8.0 8.0						
o	8.1	8.1 8.1		8.1 8.4						
p		9.1		9.2 9.2						

meadyesp.

Repeat first meas. of m, n, o, p. It looks as if there was some uncertainty as to scale used.

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Thursday March 22, 1917.

Scale AH3 Messier 15. Sheet 372

H 1749.

	sc.1	sc.2		Diff. from Adopted Magn. 9a.202	sc.1	sc.2	sc.1	sc.2		Mean Grating	Diff
α	.				5.1	q	5.2	5.3		1 5.20	4.92
β	.				6.4	6.3	6.1	6.3	1	2 6.28	4.36
γ	.				7.6	7.4	q			7.4	3.85
δ	:				7.4	7.2 7.3	7.6	7.4 7.4	1	2 7.32	4.04
ε	B	..			7.5	7.3.	q	.		7.3	3.61
ζ	q				q	q	8.6	8.0 8.1		5 8.05	3.54
η	4.1	4.1	0	4.10	8.20	q	9.0	(pis) 8.9 8.7	9.0	1 9.0	3.30
θ	5.1	4.6	5	4.85	7.89	sup?	.	.			.
K	5.4	5.2	2	5.30	7.82		9.9		9.7	9.80	3.32
a	6.1	6.2	1	6.15	7.54		n.s.		n.s.		
b	6.4	6.6	2	6.50	7.68						
c	6.9	6.9	0	6.90	7.44						
d	6.9	6.9	0	6.90	7.49						
e	7.3	7.2 7.3	0	7.25	7.26						
f	7.4	7.2 7.2	2	7.20	7.37						
g	7.5	7.3 7.4	1	7.35	7.45						
h	def.	~~7.4~~ def.		.	.						
k	7.9	7.6 7.6	3	7.60	7.66						
l	8.3	7.8 ~~8.0~~ 7.8	5	7.80	7.63						
m	8.1	8.1 8.0	19	1 7.95							
n	8.1	8.1 8.0		1 8.05							
o	q?	8.5 8.6		6 8.6							
p		9.2		9.2							

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Thursday, March 22, 1917.

Scale AH3 Messier 15. Sheet 372

H 1758 21

	sc.1	sc.2	sc.?		Diff. from Adopted magn. 9a.202	sc.1	sc.2	sc.1	sc.2		Mean grating	Diff.
α						~~4.9~~ 5.9	5.9	~~6.5~~ 6.1	6.1	0 0	6.00	4.12
β						q	q	6.5	q		6.5	4.14
γ						q	q	7.8	7.5	7.6	± 7.56	3.60
δ						8.2	7.8	8.1	7.7	7.6	6 5 7.68	3.68
ε	B.					q	q	7.6	7.4	7.6	0 7.50	3.41
ζ	8.6			36	7.99	8.6	8.0	8.1	q	8.1	5 8.07	3.52
η	7.6			46	7.70		9.2		9.2		9.20	3.10
θ	5.2	5.3	1	525	7.49		q		sup.		~~9.9~~	~~2.84~~
K	6.1	6.1	0	610	7.02		9.9		9.9		9.9	3.22
α	6.3	6.3	0	630	7.39		nc.		ns.			
b	7.1	7.0	7.0	1	7.00	7.18						
c	7.4	7.2	7.3	1	7.25	7.09						
d	7.6	7.4	7.4	2	7.40	6.99						
e	7.6	7.4	7.6	0	7.50	7.01						
f	7.8	7.5	7.6	2	7.6	6.97						
g	7.8	7.5	7.6	2	7.55	7.25						
h	8.3	7.8	7.7	6	7.75	7.43						
k	8.6	8.0	8.1	5	8.05	7.21						
l	q	q			.							
m		8.6			8.6							
n		8.4			8.4							
o		9.6			8.6							
p		ns			.							

Remeas. May 22, 17.

m 8.5

n 8.2

o 9.5? — ~~o~~ only blur seen.

2.25

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1916phae.proj.10740

Wednesday April 18, 1917.

Scale R ⅓

Messier 15

11:05 P 2612. (Mt Wilson plates for M15).

Taken Aug. 15, 1915 Exp. 5m

		sc.1 sc.2	Diff from magn. deriv. from Grating [Grating only]	Curve	Diff. from Series Magn. [Est. by H.S.L. Grating]	Diff from Magno. sheet 21	Diff from Magn. Ble 9a : 2045
add stars added on this plate by H.S.L.	α	q					
	β	B					
	γ						
	δ						
	ε	B					
Reading Corr. for Dist.	ζ	q 6.9	4.69	6.22			
	η θ	6.6	5.87	6.22			
	κ	q 7.1					
	k	6.8 B	6.23	.			
	a	8.2 7.9 8.15 01 8.1	5.66	5.74	5.54 8.0		
Two stars hardly sep. on b?	b	8.8 8.5 8.70 11 8.6	5.43	5.55	5.48		
	c	8.7 8.4 8.75 10 8.8	5.61	5.52	5.59		
Magn	d	9.1 8.8 9.10 00 9.1	5.35	5.38	5.29		
9.19 14.49	e	9.2 8.9 9.15 01 9.1	5.49	5.37	5.36		
9.36 14.61	f	9.4 9.30 11 9.2	5.31	5.30	5.27		Curve Magn.
	g	9.7 9.75 10 9.8	4.96	5.08	5.05	5.05	5.18 23 14.98 8
9.84 14.99	h	9.8 9.80 00 9.8	5.11	5.05	5.38	5.17	5.28 3 5.16 22 14.96 15.02
10.21 15.26	k	10.1 10.20 11 10.3	4.80	4.82	5.06	4.99	5.02 5.06 8 15.26 8
10.50 15.50	l	10.4 10.50 11 10.6	4.62	4.69	[4.72]	4.73	4.83 4.99 15.49
10.74 15.67	m	10.7 10.75 10 10.8	4.40	4.57	[4.67 4.71]	4.94	4.94 4.91 15.66
10.50 14.49 5	m'	10.5 10.50 00 10.5		4.69	[4.68]	5.04	5.04 4.99 15.49
10.74 15.67	n	10.7 10.75 10 10.8	4.36	4.57	[4.56 4.43]	4.89	4.89 4.91 15.66
10.65 15.87 60	n'	10.7 10.66 10 10.6		4.61		5.11	5.11 4.95 15.60
11.30 16.09	o	11.3 11.35 10 11.4	4.30	4.28	[4.78 75 30]	4.63	4.63 4.79 16.14
10.74 15.67	o'	10.7 10.75 10 10.8		4.57		4.85	4.85 4.91 15.66
11.91 16.59	p	11.9 12.00 11 12.1	4.12	3.97	[4.12 74]	4.38	4.38 4.66 16.66
11.28 16.08	p'	11.1 11.30 20 11.5	11.3	4.30	.	4.89	4.89 4.79 16.09
	q				[4.49]		

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Wednesday April 18, 1917.

Scale R. Messier 15

P 7612 cont

Cor. Dist.	Magn.				Curve	Diff. from magno. sheet 21	Diff. from Magn. Bk 92: 204,5	Curve	Magn.
12.19	16.81	q	12.3	12.35	12.4	3.80	4.55	4.61	4.60	16.95
12.06	16.69	q'	12.1	12.10	12.1	3.91	4.57	4.63	4.65	16.75
12.56	17.13	n'	12.6	12.60	12.6	3.66	4.68	4.68	4.55	17.15
13.28	17.71	s'	13.3	13.30	13.3	3.27	4.33	4.34	4.44	17.74

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Wednesday April 18, 1917.

Scale M. Hessen 15.

P 2582 (on Wilson plate)

Yerkes Aug. 14, 1917 Exp. 4m

	Sc.1	Sc.2	Sc.3	Diff	curve	Diff. from Series	Diff. from Magn. Bk Qa: 204.5			
α	B.									
β	.				See Remarks p. 48					
γ	.									
δ	.									
ε	B									
ζ	B									
η	3 ~~4.0~~ 4.2									
θ	4.0			8.57	8.83					
κ	4.4 4.2 4.5	4.45	01	8.68	8.80					
	4.9 4.8 5.2	5.05	02							
a	4.7 5.06 5.2			8.73	8.64	8.61				
b	5.7 5.5	5.70	00 5.7	8.43	8.49	8.48				
c	5.9 5.1	5.65	10 5.8	8.51	8.45	8.49				
d	6.0 5.8	6.05	01 6.1	8.40	8.38	8.34				
e	6.1 5.9	6.15	00 6.2	8.49	8.34	8.36				
f	6.6 6.4	6.53	01 6.5	8.06	8.20	8.02		Curve	Magn.	
g	6.5 6.3	6.55	10 6.6	8.16	8.20	8.25	8.25	8.27	14.82	
h	6.6 6.8	6.65	10 6.7	8.26	8.17	8.53	8.43	8.25	14.90	
k	7.1 6.9	7.10	00 7.1	7.90	7.98	8.16	8.12	8.16	15.26	
l	7.2	7.20	00 7.2	7.92	7.93	[8.23]	8.13	8.14	15.34	
m	7.6	7.60	00 7.6	7.55	7.77	[7.82]	8.09	8.08 10	15.70	
m'	7.6	7.60	00 7.6		7.77	.	7.94	8.08 10	15.70	
n	7.7	7.70	00 7.7	7.41	7.73	[7.48]	7.94	8.10	15.80	
n'	7.6	7.70	01 7.8		7.73	.	8.06	8.10	15.80	
o	7.8	7.50	00 7.8	7.85	7.69	[8.30]	8.18	8.10	15.90	
o'	7.8	7.50	01 7.6		7.80	.	8.10	8.10	15.60	
p	8.5	8.40	11 8.3	7.72	7.43	[8.34]	7.98	8.09	16.49	
q						[8.04]				

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Wednesday April 18, 1917.

Sclle M. Messier 15

P 2582 (Mt Wilson)

	sc 2	sc 2		Curve	Diff. from Magn. B&Ga: 204.5	Curve	Magn.
p'	8.1	8.10	8.1	7.56	8.09	8.10	16.20
q	8.7	8.80	8.9	7.27 E	8.16	8.08	16.88
q'	8.6	8.60	8.6	7.35	8.13	8.08	16.68
r' scratch near	9.2?	9.20	9.2?	7.10 E	8.08	8.05	17.25?
s'	9.7	9.70	9.7	6.89 a	7.94	8.00	17.70

1m bright stars slightly elongated-

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Wednesday April 18, 1917.

Scale R

Messier 15.

P 2604 (Mt Wilson)

Taken Aug. 14, 1915 Exp. 5m

Diff. from Magn. Plate 92: 204.5

		sc.1	sc.2	sc.3	Diff	curve	Diff. from Series.	Diff. from magns. on sheet 21			Curve	Magn.
α	1	B.										
β	2	.										
γ	3	.										
δ	4	.										
ε	5	q										
ζ	6	q										
θ	7	7.2 6.9				5.57	.					
η	8	6.9 6.4				5.60	.					
K	9	7.6 7.3	B.			5.73	.					
a		8.0 8.1	8.05	8.1		5.76	5.76	5.64				
	b	q	q				.	.				
	c	8.5 8.5	8.8	8.9		5.51	5.50	5.49				
	d	8.9 8.6	8.6	9.1 9.1	9.00	5.45	5.40	5.39				
	e	9.4 9.1	9.3	9.35		5.29	5.31	5.16				
	f	9.4 8.9	9.1	9.5	9.45	5.16	5.28	5.12				
	g		9.5	9.50	9.5	5.21	5.26	5.30		5.30 4.50	5.32	14.82
	h		9.6	9.70	9.8	5.21	5.19	5.48	5.27	5.38	5.29	14.99
	k		10.1	10.10	10.1	4.90	5.00	5.16	5.09	5.12	5.23	15.33
	l		10.3	10.30	10.3	4.82	4.90	[4.62]	4.93	5.03	5.19	15.49
	m		10.5	10.55	10.6	4.60	4.78	[4.87]	5.14	5.14	5.13	15.68
	m'		10.6	10.50	10.4		4.80	.	5.04	5.04	5.14	15.64
	n		10.4	10.35	10.3	4.76	4.86	[4.83]	5.29	5.29	5.18	15.53
	n'		10.8	10.65	10.5		4.74	.	5.11	5.11	5.10	15.75
	o		10.9	10.85	10.8	4.80	4.64	[5.25]	5.13	5.13	5.05	15.90
	o'		10.6	10.60	10.6		4.76		5.00	5.00	5.12	15.72
	p		11.6	11.60	11.6	4.52	4.29	[5.14]	4.78	4.78	4.85	16.45
	q							[4.59]				

elongated.

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1916phae..proj..10740

Wednesday April 18, 1917.

Scale R

Messier 15.

P 2604

				Diff. from Magns. on sheet 21	Diff. from Magn. Bde 9a: 204.5		
	Scz	Scz	Curve			Curve	Magn.
p'	11.1	11.10° 11.1	4.52	5.28	5.09	4.98	16.08
q	12.2	12.25° 12.3	3.98 E	4.65	4.71	4.67	16.92
q'	12.1	12.10° 12.1	4.03 E	4.57	4.63	4.70	16.80
r'	12.7	12.70° 12.7	3.70 E	4.58	4.58	4.56	17.26
s'	13.2	13.20° 13.2	3.44 E	4.43	4.44	4.46	17.66

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1916phae.proj.10740

Wednesday April 18, 1917.

Scale R

Messier 15.

P 2619. (Mt Wilson)

Taken Aug. 15, 1915 Exp. 12m

		pc.1	pc.2	Diff	Curve	Diff. from Smo.	Diff from magno. on sheet 21
						See Remark p. 48	
α	B.						
β	.						
γ	.						
δ	B						
ε	B						
ζ	B						
η	5.1 4.8			7.20	.		
θ	5.9 5.6			6.87 7.19	.		
κ	5.9 5.6			7.43	.		
a	6.5 6.5			7.01	7.07	7.04	
b	.					.	
c	7.7 7.4			6.66	6.72	6.54	
d	7.7 7.4			6.75	6.72	6.77	
e	7.8 7.5	7.80	7.8	6.84	6.69	6.70	
f	7.7 7.4	7.25	7.8	6.86	6.70	6.81	
g	8.3 8.0	8.20	8.1	6.51	6.55	6.36	
h	8.4 8.1	8.20	8.0	6.71	6.55	6.98	6.77
k	8.7 8.4	8.60	8.5	6.40	6.40	6.25	6.59
l	8.7 8.4	8.60	8.5	6.52	6.40	[6.32]	6.63
m	9.4	9.40	9.4	5.75	6.09	[6.02]	6.29
m'	9.4	9.25	9.1		6.15	.	6.29
n	9.1	9.10	9.1	6.01	6.21	[6.08]	6.54
n'	9.2	9.25	9.3		6.15	.	6.51
o	9.3	9.40	9.5	6.25	6.09	[6.70]	6.58
o'	9.3	9.25	9.4		6.11	.	6.25
p	9.9	10.05	10.2	6.09	5.80	[6.69] [5.84]	6.33
q							

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Wednesday April 18, 1917.

Sc. R. Messier 15.

P 2619

	sc 2	sc 2	Curve	Diff. from Wedges. Sheet 21
f'	9.9	9.95 1.0 | 10.0	5.86	6.24
g	10.9	11.00 1.1 | 11.1	5.38 E	5.90
g'	10.5	10.46 1.0 | 0.4	5.63 E	6.22
i'	~~12~~ 11.2	11.15 0.1 | 11.1	5.30 E	6.13
s'	12.1	12.10 0.0 | 2.1	4.83 E	5.53

g' tomuch brighter than g.

this plate not as good as prec. plates.

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1916phae.proj.10740

Wednesday April 18, 1917.

Scale M

Messier 15

P 2602 (Mt Wilson)

Taken Aug. 14, 1915. Exp. 5m-2m

	sc.1	sc.2	sc.2	Diff	Curve	Diff. from Series.	Diff. from magno. ~~check at~~ Bk 9a: 214.5		
α	B.								
β									
γ						See Remarks p. 48			
δ									
ε									
ζ									
η	B								
θ	3.8 3.6				8.97				
K	4.0 3.8				9.33				
a	4.9 4.1	5.00	11	5.1	8.81	8.92	8.69		
b	q			q					
c	5.4 5.2	5.55	11	5.6	8.86	8.84	8.84		
d	5.6 5.4	5.60	..	5.6	8.85	8.82	8.79		
e	5.9 5.1	5.85	10	5.8	8.79	8.77	8.66		
f	5.7 5.5	5.75	10	5.8	8.86	8.80	8.82		
g	6.1 5.9	6.15	10	6.2	8.56	8.69	8.65	8.65	8.94 15.09
h	6.1 5.9	6.15	10	6.2	8.76	8.69	9.03	~~8.93~~ 9.03	8.94 15.09
k	6.3 6.1	6.30	..	6.3	8.70	8.64	8.96	8.92	8.90 15.20
l	6.7 6.5	6.60	11	6.5	8.52	8.52	[8.32]	8.73	8.82 15.42
m	6.8 6.6	6.82	0.03	6.85 6.9 q	8.33	8.42	[8.60]	8.84	8.76 15.58
m'	6.7 6.5	6.60	12	6.5		8.52	.	8.94	8.82 15.42
n	7.1 6.9	7.10	..	7.1	8.01	8.52 28	[8.08]	8.54	8.68 15.78
n'	6.9 6.7	7.00	11	7.1		8.31	.	8.76	8.70 15.70
o	7.3	7.30	..	7.3	8.35	8.20	[8.86]	8.68	8.64 15.94
o'	7.1	7.10	..	7.1		8.28	.	8.50	8.68 15.78
p	q			q	.	.	.	.	.
q							[8.24]		

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Wednesday April 18, 1917.

Scale M Messier 15.

P 2602 (Mt Wilson)

	sc.1	sc.2	Curve	Diff. from Magn. Bk 9a: 2045 Curve	Magn.
f'	7.6	7.65 01 7.7	8.05 E	8.54	8.56	16.21
f	8.6	8.60 00 8.6	7.55 E	8.36	8.47	17.07
g'	7.9	8.00 11 8.1	7.87 E	8.73	8.51	16.51
h'	8.8	8.76 01 60 8.7	7.47 E	8.53	8.47	17.22
s'	9.2	9.20	9.2	7.18 E	8.44	8.45	17.65

1:25

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1916phae.proj.10740

Friday April 30, 1917.

Scale A H1

11 : 15

Messier 15.

P ~~2588~~ 2613

Taken Aug. 15, 1915 Exp. 15m

Diff. from Maglis. sheet 21

	sc.1	sc.2	sc.3	Diff	Curve	Diff. from Series	
γ							
δ						See Remarks p. 48	
ε							
ζ							
η							
θ							
K	q						
a	1.6	2.0			11.81	11.90	11.69
b	.				.	.	.
c	2.3	2.7			11.66	11.59	11.64
d	2.8	3.2			11.25	11.36	11.19
e	2.9	3.3			11.34	11.30	11.21
f	2.9	3.3			11.31	11.30	11.27
g	3.2	3.6			11.11	11.16	11.20
h	3.5	3.9			11.01	11.00	11.28	11.07
k	3.8	4.2	q	4.2	10.80	10.85	11.06	10.99
l	~~2.8~~ 3.8	4.2		4.15	10.97	10.88	[10.79]	11.08
	4.1							
m	4.4	4.6	4.5	4.55	10.60	10.70	[10.82]	11.14
m'	3.8	4.2	4.2	4.20		10.85	.	11.34
n	4.1	4.5	4.5	4.50	10.61	10.74	[10.68]	11.14
n'	4.3	4.6	4.9	4.8	4.6	4.75		10.60	.	11.01
o	5.1	5.2	5.2	5.20	10.45	10.41	[10.90]	10.78 ~~5.63~~
o'	4.4	4.6	4.5	4.55		10.70	.	11.05
p	5.6	5.6	5.8	5.70	10.42	10.17	[11.04]	10.68
p'	5.2	5.3	5.4	5.35		10.34	.	10.84
q	5.8	5.8	6.4	6.10		10.00	[10.74]	10.80

stars sup. on b.

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Friday April 20, 1917

Scale AH1 Messier 15

P ~~2588~~ 2613

	sc.1	sc.2		Curve	Diff. from Magls. sheet 21
g'	5.8	5.8	6.1	5.95	10.06 E 10.72
r'	6.6	6.5	6.7	6.60	9.75 E 10.68
s'	6.9	6.8	6.8	6.80	9.65 E 10.83

Scale AH1 Provisional corrections to Scale B
for Trp 58, 59, 62, 63

Brightest stars 4.2 Corr. +0.4
4.2 to 4.9 +2
5.0 5.4 +1
5.5 6.4 0
6.5 and fainter -1

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Friday April 20, 1917.

Scale A L

~~H 45~~

Messier 15.

P 2592.

Taken August 14, 1915 Exp. 4m

	B	A C								
	pc.1	pc.2	pc.2	Diff	curve	Diff. from Series Magn. See Remarks p. 48		Diff. from Magn. Bk 92 : 20		
γ	B.									
δ	.									
ε	.									
ζ	B									
η	1.6		2.3?	10.00	.					
θ	3.3		4.0	8.77	.					
κ	3.6		4.3	9.03	.					
a	3.9		4.6	9.21	9.12	9.09				
b	4.5		5.2	8.93	8.96	8.98				
c	4.7		5.4	8.96	8.90	8.94				
d	5.1		5.8	8.65	8.78	8.59				
e	4 5.9		5.6	9.04	8.83	8.91				
f	5.2		5.9	8.71	8.74	8.67			Curve	Magn.
g	5.1		5.8	8.91	8.78	9.00	9.00	9.08	9.13	14.93
h	5.4		6.1	8.81	8.68	9.08	~~8.98~~		8.90	15.00
k	6.1	6.8 B.	6.8	8.20 7.97	8.50	8.46	8.42		8.45	15.25
l	6.4	7.2 7.7	7.15	~~8.02~~	8.40	[7.77]	8.18		8.24	15.39
m	7.3	8.0 7.8	7.90 ~~8.0~~	7.25	8.20	[7.52]	7.79		7.81	15.71
m'	6.9	7.6 7.3	7.45		8.32	.	8.09		8.08	15.53
n	6.9	7.6 7.9	7.75	7.36	8.24	[7.43]	7.89		7.90	15.65
n'	6.9	7.0 7.7 7.9 7.9	7.80		8.22	.	7.96		7.88	15.68
o	7.8	8.5 8.5	8.50	7.15	8.03	[7.60]	7.48		7.48	15.98
o'	7.1	7.8 7.9	7.85		8.21	~~[7.60]~~	7.75		7.86	15.71
f		9.5 9.1	9.30	6.82	7.79	[7.44]	7.08		7.08	16.38
f'		9.1 8.9	9.00		7.88	.	7.19		7.22	16.22
g		10.3 10.1	10.20		7.51 E	[6.64]	6.76		6.75	16.95

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Friday April 20, 1917

Scale A2. Messier 15

P 2592

	sc. 2	sc 7		Curve	Diff. from Wash. Bk 9a: 204,5		Curve magn.
q'	9.8	9.9	9.85	7.62 E	6.88	6.87	16.72
r'	10.6	10.6	10.60	7.40 E	6.68	6.64	17.24
s'	11.2	11.2	11.20	7.22 E	6.44	6.45	17.65

Scale A2. Measures on Scale B corrected (provisionally) by +7

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Friday April 20, 1917.

A H 1. Messier 15.

P 2588

Yerkes Aug. 14, 1915. Exp. 4m

	sc 1	sc 2	sc 3	Diff	Curve	Diff. from Series Magn. See R p. 48	Diff. from Magno. sheet 21	Diff. from Magno. Pole 90 : 204,5		
1	B.									
8	.									
E	.									
1	B									
η	1.4		1.8	10,50	.					
θ	2.6		2.0	9.77	.					
K	2.9		3.3	10,00	.					
a	3.4	B.	3.8	10.01	10.02	9.89				
k	q	q	.		.	.				
c	3.9	4.3	4.3	4.30	10.06	9.98	10.04			
d	4.4	4.6	4.9	4.6	9,85	9.85	9.79			
e	4.4	4.6	4.1	4.65	9.99	9.81	9.86			
f	4.6	4.8	4.8	4.80	9.81	9.78	9.77			Curve Magn.
g	4.8	5.0	5.2	5.10	9,61	9.66	9.70		9.70	9.82 14.92
h	5.1	5.2	5.4	5.30	9,61	9.58	9.88	9.67	9.78	9.76 15.06
ke	5.8	5.8	5.1	5.75	9,25	9.39	9.51	9.44	9.47	9.60 15.35
l	5.1	5.7	5.5	5.60	9,52	9.45	[9.32]	9.63	9.73	9.65 15.25
m	8.6	3.6	6.2	6.25	8,90	9.17 ε	[9.17]	9.44	9.44	9.44 15.69
m'	6.1	6.1	6.2	6.15		9.20 ε	.	9.39	9.39	9.48 15.63
m	6.5	6.4	6.3	6.35	8,76	9.12 ε	[8.83]	9.29	9.29	9.42 15.77
m'	6.2	6.2	6.3	6.25		9.17 ε	.	9.51	9.51	9.44 15.69
o	6.8	6.7	6.8	6.75	8,90	8.95 ε	[9.35]	9.23	9.23	9.34 16.09
o'	6.4	6.4	6.1	6.25		9.17 ε	.	9.35	9.35	9.44 15.69
p	7.3	7.2	6.9	7.05	9.07	8.81 ε	[9.69]	9.33	9.33	9.29 16.34
p'	6.8	6.7	6.8	6.75		8.95 ε	.	9.44	9.44	9.34 16.09
q	7.8	7.7	7.7	7.70		8.66 ε	[9.14]	9.20	9.26	9.16 16.86

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Friday April 20, 1917

Sc. AH 1

Messier 15.

P 2588

	sc 1	sc 2		Curve	Diff. from magno. sheet 21	Diff. from Magn. Bkgd: 204.5	Curve	Magn.
q'	7.7 7.6	7.5	7.55	8.62 E	9.12	9.18	9.19	16.74
p'	8.5 8.4	8.4	8.40	8.25 E	8.88	8.88	9.04	17.44
S'	8.6 8.5	8.5	8.50	8.20 E	8.13	9.14	9.01	17.51

12 50

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Monday May 1. 1917.

Scale R 10:19 — H 1881 Praesepe · superposed on H 1502 for ident.

	Eph. 1 (1)		Eph. 2 (3)		Eph. 3. (5)		Eph. 4 (D)	
a	3.4	3.7	3.8	4.1	B.		B.	
b	3.9	4.2	4.3	4.6	4.5	4.8	4.2	4.5
c	4.6	4.9	4.1	5.0	4.5	4.8	B	
d	3.6	3.9	4.1	4.4	4.4	4.7	4.5	4.8
e	4.1	5.0	5.3	5.6	4.1	5.0	4.5	4.8
f (Brit on 1st exp.)	3.8	4.1	5.3	5.6	5.2	5.5	4.8	5.1
g	4.9	5.2	5.3	5.6	5.5	5.8	5.3	5.6
k	7.4	7.7	7.5	7.8	7.4	7.7	7.3	7.6
m	7.1	8.0	8.1	8.4	7.9	8.2	8.0	8.3
o	7.8	8.1 8.2 8.3	7.1	8.0	7.8	8.1	7.7	8.0
p	7.6	7.9 (7.1)	8.0	8.3	8.2	8.5	8.5	8.8
r	8.2	8.5 8.6 8.55	8.5	8.8	~~8.8~~	8.8	8.1	9.0
x	4.9	5.2	5.2	5.5	5.5	5.8	4.7	5.0
1	~~4.2~~ 11.8 w.s.		11.5		11.6		11.6	
2 (nearly sup on bit of star)	t.p.		12.5		12.5		12.3	
3	13.3		13.3		13.1		13.3	
4	13.2		13.2		13.2		12.9	
5	?		?		m.s.?		m.s.	
6	? def?		?		m.s.?		m.s.	
7	m.s.?		m.s.		?		m.s.	
8	13.1		13.0		13.3		sup?	
9 = 25	12.1		12.2		12.1		12.3	
11	~~8.9~~ w.s.	9.2	9.6		9.8		9.4	
12	13.5		13.1		?		?	
13	10.8		10.4		10.6		10.7	
14	12.1 ? faint		12.2		12.2		12.1	
15	12.1		t.p.		t.p.?		t.p.	

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1916phae.proj.10740

Monday May 1. 1917.

Scale R H 1881 Praesepe.

	Exp. 5 (8) sc 1 e (8)		Exp. 6 (6)		Exp. 7 (4)		Exp. 8. (2) sc 1 sc +	
a	3.8	4.1	3.8	4.1	B		B.	
b	3.8	4.1	3.8	4.1	3.6	3.9	B.	
c	B.	.	B.	.	B.	.	qf	
d	4.2	4.5	4.6	4.9	4.6	4.9	qf	
e	4.3	4.6	B.	.	B. hour	.	B.	
f	4.8	5.1	B.	.	4.3	4.6	4.3	4.6
g	4.8	5.1	4.8	5.1	4.5	4.8	4.4	4.7
h'	6.5	6.8	~~7.8~~ assume 6.8	~~8.1~~ "	6.7? v. fr.	7.0?	7.4	7.7
m	7.7	8.0	7.7	8.0	7.7	8.0	7.8	8.1
o	7.4	7.7	7.7	8.0	8.4	8.7		9.3
fr	8.1	8.4	8.2	8.5	7.8	8.1	7.4	7.7
r	8.3	8.6	8.3	8.6	8.2	8.5	8.5	8.8
x	4.4	4.7	qf		5.4	5.7	qf	
1		12.4 12.35 o1 12.3		qf		t f.		f.
2		t f.		13.1?		t f.		m.s.?
3		13.5		13.5		m.s.		f.
4		m.s.		13.1		m.s.		f.
5		t f?		m.s.		m.s.		f.
6		m.s.		m.s.		m.s.		f.
7		f.		m.s.		m.s.		f.
8		13.3 ~~13.4~~		13.4		f.		f.
9-25		12.3		12.4		12.6		13.2? 13.15.? o2 13.1 hour.
11		9.5		9.6		9.1		9.3
12		13.6		f.		m.s.		m.s. sup?
13		10.5		10.5		sup.		11.1
14		12.3		12.5		12.2		12.4
15		f.		f		m.s.		m.s.

8th Exp. inv. Faint wings

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1916phae.proj.10740

~~Monday~~ Tuesday May 8 4. 1917.

Scale R H 1881 cont. Praesepe.

	Eph. 1 (1) sc 1	sc 2	sc 2	Eph. 2 (3)		Eph. 3 (5)		Eph. 4. (1)	
16		13.4?9		13.5 faint		13.2 ?faint		13.3	
17		10.2		10.1		10.1		10.1	
18		11.9		12.1		11.6		sup.	
19		10.2		10.1		10.1		10.2	
20		13.3		13.1		13.1		13.1	
24	6.8	7.1		7.2	7.5	7.5	7.8	7.1	8.0
25		12.2		12.2		12.2		12.3	
27	8.1	9.0	9.0 9.00		9.5		9.6		9.5
28	~~8.5~~ ws.		13.4		13.6 9		?		?
30		10.3		10.3		11.5? almost sup. on bit star	11.4 11.45 10		10.3
31 close to bit star.		?f.		11.8		12.1		12.1	
32		9.98		10.1		9.9		9.9	
33		9.88		10.2		10.2		10.1	
34		12.6?9		13.3 near bit star		13.3		13.4	
35		11.4	11.45 01 11.5	11.4		11.3		11.2	
36		10.9		10.6		10.8		11.1	
37	8.8 9.1	8.9	9.00 ±	8.9		9.1	9.4		9.1
37a		13.1		13.1		13.1		13.5	
38		12.9		13.1		13.1		13.3	
39		13.2		13.1		13.5		13.2	
41	5.4?9	5.7 ?		5 7.1?	6.0?	5.8	6.1	5.8	6.1
42		9f		12.1		11.5 6		11.8	
43		8.9		9.1		9.2		9.6	
44	4.24.5 from 4.8	4.65 ± 2		4.5 4.1 from 4.8 5.0	4.90 ± 1	5.4	5.7	5.3	5.6
39a		13.3		12.9		13.1		13.5	

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1916phae.proj.10740

Tuesday
~~Monday~~ May 8, 1917.

Scale R H 1881 Praesepe.

	Exp 5 (8)		Exp 6 (6)		Exp. 7 (4)		Exp. 8 (2)	
							202	
16		13.4		ƒ.		ƒ.		ƒ.
17		10.3		10.6		10.6		10.5
18		12.1		12.1		12.3		12.3
19		10.5		10.4		10.5		10.4
20		13.3		13.1? poor		13.4		13.6
24	7.5	7.8	7.5	7.8	7.6	7.9	7.2	7.5
25		12.3		12.8		12.6		12.1? poor
27	9.1	9.4		9.4		9.6		9.3
28		t.f.		ƒ.		13.7		ƒ.
30		10.5		10.7		11.2		11.2
31		12.1		12.4		12.3 v.p.		13.1 13.4
32		9.7		10.1		10.2 poor		10.2
33		9.9		10.2		10.4		10.4 poor
34		13.5		sup.?		sup?		ƒ.
35		11.5		t.f.		12.2		12.5
36		11.2		t.f.		12.2 poor		12.6? poor
37		9.2		9.1		8.9		9.2
37a		ƒ.		ƒ.		ƒ.		ƒ.
38		13.4		sup.		t.f. close to bright star.		12.7
39		13.4		ƒ.		ƒ?		ƒ.
41	6.3	6.6	6.4	6.7	6.4	6.7	5.9	6.2
42		11.6		11.7		11.8		12.1
43		9.5		9.8		9.7		9.4
44	5.3	5.6	5.6	5.9	5.7	6.0	5.5	5.8
39a		135?		t.f.		t.f.		t.f.

3

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Thursday May 24, 1917.

Scale R — Net of Orion. — Yellow plates of Long Eyp.

11:30 — Mc6775 — YELLOW

		sc.1	sc.2		P.C.	P.C.	P.C.
Seq for 30Ks	+	B.	B		sc.2 11.8		sc.2
	2	7.0 7.1	B		11.8 13.2	13.25 01 13.3	
	3	7.8 7.5	7.5	7.652	qf	tf.	
	4	7.8 7.35 10	8.1	8.10 00	sup.	Sup.	
	5	7.9 8.0 7.5 7.1	8.2	8.1 8.05 10	13.3	13.25 10 13.2	
830 =	6		10.2		n.s.	n.s.	
	7		10.8				
	8		12.6				
	9		11.1				
	10		11.6				
828 =	11		11.4	11.30 12 11.2			
~~794~~ =	12		12.1	12.10 00 12.1			
794 =	13		11.9	11.90 00 11.9			
var	14		.				
	15		12.4	12.45 01 12.5			
	16		12.4	12.35 01 12.3			
var	17		.				
	18		13.1	13.10 00 13.1			
	~~19~~		13.7	13.65 10 13.6			

				Diff			
Ref Seq.	1	B.			11.5	11.30 22 11.1	- 2.9 8
	2	B			11.6	11.55 01 11.5	- 2.96
	3	B	B.		11.9	11.75 12 11.6	- 2.93
	4	7.4 7.1	B	2.30	12.6	12.70 01 12.8	- 3.00
	5	8.5 8.2	8.45 10 8.4	1.82	13.4	13.35 01 13.3	- 3.08
	6	8.5 8.2	8.40 11 8.3	1.90	13.5	13.45 10 13.4	- 3.15
	7	7.7 7.4	7.50 22 7.3	2.42	13.1	13.10 00 13.1	- 3.18

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1916phae.proj.10740

Thursday May 24, 1917.

Scale R Net. Orion. Cont.

mc 6775- YELLOW

	sc.1	sc.2	Diff	
8		10.6	1.02	
9		10.7	1.05	
10		11.1	0.79	
11		11.4	0.72	
12		10.8	0.99	
13		t.p.	t.p.	
14		12.2 12.30 12.20	12.4	-0.08
15		12.2	12.2	0.37
16		13.1 13.10 13.30	13.1	
17		13.3	13.3	
18		?	?	
19		n.s.	n.s.	
20		n.s.	n.s.	
4a	9.1 8.8	9.00	8.9	
6a		9.6 9.55	9.5	
6b		10.1 10.10	10.1	
α	B.			10.7
β	B.			12.1
γ	B.			12.2
554	B.			10.5 -2.78
757	6.8 6.5		2.82	13.1 -3.48
924	B.			12.1 -3.176
776	7.4 7.1		2.05	13.0 -3.55
497	7.4 7.3		2.34	13.1 -3.16
Kaf. 303	7.7		2.32	13.3 -3.28
b = 830				

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Thursday May 24, 1917.

Scale R. Net Orion cont. YELLOW

mc6775

	Kap.	sc.1	sc.2	
13 =	794			
11 =	828			
	740	11.5		
	696	10.7		
	693	12.6		
	508	12.1		
	693a	12.3		
	806	11.1		
	508	12.1		
	705	10.4		
	808	11.4		
	700	10.21		
	551	9.21		
	532	12.9		
	805	12.1		
	490	12.6		
	458	11.4	11.30 11	11.2
	516	12.5	12.5000	12.5
Not 677 marked on B163	677a	12.6	12.55 01	12.5
	778	12.4	12.40 00	12.4
	793	11.7	11.65 10	11.6
	750	10.3	10.35 10	10.4
	690	10.7	10.80 11	10.9
	722	12.6	12.75 31	12.9
too close together	657			
	652			

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Thursday May 24, 1917.

Scale R. Neb. Orion cont. YELLOW
MC6775

in dark neb.	681	12.1
neb. too dark	647	.
	651	n.s.

1—

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Thursday May 24. 1917.

Scale R. 1:35 — Net. Q nov — mc 4909 — YELLOW

		sc.1	sc.2		g sc.2	h sc.2	P.C. sc.2
R. Region	1	6.7 6.4	B.		12.2	12.20 00 12.2	12.4
	2	8.0 7.7	8.05 01	8.1	13.2	13.25 01 13.3	13.21
	3	8.9 8.6	8.85 10	8.8	13.5	13.45 10 13.4	13.5
	4	9.2 8.9	9.15 02	9.1	q	13.7	13.5
	5		9.3		ns.	ns.	ns.
830 =	6		10.4				
	7		11.85				
696 =	8		11.2				
	9		11.1				
	10		12.2				
828 =	11		11.7	11.80 ±1 11.9			
	12		12.2	12.25 01 12.3			
794 =	13		12.1	12.15 ±0 12.2			
var.	14						
	15		12.9	12.95 ±0 13.0			
	16		13.1	13.10 00 13.1			
var.	17)						
	18		13.6	13.40 22 13.2			
	19			q			
	20			ns.			
Ref. Reg.	1	B			11.8	11.75 01 11.7	−3.43	11.9	−3.64
	2	B			12.1	12.10 00 12.1	−3.51	12.1	−3.51
	3	B			12.2	12.25 01 12.3	−3.43	12.3	−3.48
	4	8.2 7.9	8.1	8.15 02	1.55	13.4	13.40 00 13.4	−3.70	13.1	−3.40
	5		9.4		0.87	q	13.7?	−3.43		
	6		9.21		1.10	q	13.6?	−3.30		

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1916phae.proj.10740

Thursday May 24. 1917.

Scale R Nebula Orion YELLOW

Mc 4909

				g	h.		
	sc.1	sc.2		sc.2	sc.2		
7	8.3 (8.6)	8.6 8.68	1.32	g	13.4	-3.58	
8		11.4	0.22	ns	n.s.		
9		12.1	-0.35				
10		11.8	0.09				
11		12.1	0.02				
12		11.5	0.29				
13		12.6					
14		f. 12.6	-0.42 ~~-0.62~~				
15		12.6 12.60	12.6 -0.03				
16		13.6 13.50	11 13.4				
17		13.6 13.65	01 13.7				
18		f. f.					
19		n.s.					
20		n.s.					
4a		9.6					
6a		10.21					
6b		10.5					
α	B.			10.7	10.65 10 10.6		10.8
β	(6.5) 6.7			12.1	12.15 10 12.2		def.
γ	(6.8) 6.5			12.5	12.45 10 12.4		12.5
554	B			10.9	10.85 10 10.8	-3.13	10.9 -3.18
751	(6.5) 8.2		1.12	g	13.3	-3.68	13.2 -3.58
924	(6.6) 6.3		2.34	g	12.2	-3.26	12.3 -3.36
776	(8.0) 7.7		1.45	12.1	g	-3.25	12.1 -3.25
497	(9.6) 8.1		0.94	13.4	13.40 00 13.4	-3.46	g-

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1916phae.proj.10740

Thursday May 24, 1917.

Scale R. Net. Orion

Mc 4909 cont.

		sc.1	sc.2		g h sc.2	sc.2	P.C. sc.2	
		8.8 8.5						
Kapt.	303			1.22	13.3	13.2 13.25-10	13.5 -3.48	-3.23
6 =	830		.					
13 =	794		.					
11 =	828		.					
	740		12.2					
	696		11.1					
	693		13.3					
partly sup.	508		.					
	693a		12.3					
	806		11.5					
	~~508~~		see above.					
	705		11.1					
	808		12.2					
	700		10.6					
	551		10.3					
	532		13.4					
	805		12.8					
v. light net.	490		13.3					
	458		11.6					
	516		12.6					
~~not 677 marked on B163~~								
Low dark net.	* 677a.		13.3?					
sl. net.	778		12.8					
	793		12.5	12.35 12.2				
	750		11.1	11.1000 11.1				
	690		11.5	11.35 11.2				
	722		13.4	13.30 13.2				

Is the 677 measured here the 677 of B163 or 677a, marked on MC 6775?

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Thursday May 24 1917.

Scale R. Neb. Orion cont. YELLOW

MC 4909

		sc?
too close together	659	6½
	652	dark.
	681	12.6
	671	neb. 6½ dark.
	707	11.7? nearly sup on diffn fm.

3

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1916phae.proj.10740

Friday, May 25, 1917.

Scale R — Net. Orion. YELLOW

10 — mc 8048

		pc.1	pc.2	pc.3	Diffr. Im. g	Diffr. Im. h	B.C. pc.2
Kapt.Sq.	1	B.			12.1	12.1	12.6?
	2	7.4 7.1			12.6	12.6	12.8
	3	7.9 7.6 (12) 7.75 (8.6 21) 7.6			13.2	13.1	13.3
	4	8.3	9.45	8.3	~~8.7~~	+p.	f.
	5	8.2 (8.5 22)	8.30	8.1	f	f.	
830 =	6		10.21				
	7		10.9				
696 =	8		10.6				
	9		11.1				
	10		11.7				
878 =	11		11.21				
	12		12.1 (12.20 11) 11.3				
794 =	13		12.2 (12.15 01) 12.1				
var.	14		.				
	15		12.6 (12.50 11) 12.4				
	16		12.9 (12.70 22) 12.5				
var.	17		.	.			
	18		t.p. 13.1? from				
	19		f. *				
	20		ms.	n.s.			

Ref. Sq.	1	B.			11.6 (11.50 11) 11.4	−3.18	11.6 — 3.28
	2	B			11.3 (11.25 10) 11.2	−2.66	11.6 −3.01
	3	5.6 5.3		3.22	12.2 (12.15 01) 12.1	−3.33	11.8 −2.98
	4	7.4 (7.7 9.0 B 22) 8.80		2.00	13.3 (13.20 11) 13.1	−3.50	13.2 −3.50
	5	~~5.2~~ 8.6		1.47	ms	ms	ms.
	6	8.5 (8.0 22) 8.60	8.4	1.70	f.	13.6 −3.30	

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1916phae.proj.10740

Friday, May 25, 1917.

Sc. R Neb. Orion. cont YELLOW

mc 8048

				g	h		P.C.
	sc 1	sc 2			sc 2		sc 2
4	7.7 (8.0) 7.85	7.7 (7.9)	2,07	tb	13.4	−3.48	13.4
8		10.7	0,92				
9		11.1	0,65				
10		11.1 10.95±1 10.8	0,94				
11		11.2 11.30±1 11.4	0,82				
12		11.1 11.1000 11.1	0,69				
13		12.4 12.30±1 12.2					
14		12.2 12.40±2 12.6	−0.18				
15		12.2 12.25±1 12.3	0,32				
16		n.s. n.s.					
17		n.s. n.s.					
18							
19							
20							
4a		9.5					
6a		10.2					
6b		10.3					
α	B.			10.8 10.7±1 10.6			11.1
β	5.4 5.1			12.1	g		12.4 3
γ	6.0 5.1			12.1 12.15±1 12.2			12.8 4
554	B. (7.0)			10.2 10.25±1 10.3		−2,53	10.4 −2.68
759	6.7	2,62		12.7 12.65±1 12.6		−3.03	def. infilm on P.C.
924	5.7 5.4	3.24		12.2 12.2000 12.2		−3,26	12.2 −3.26
776	7.1 (7.4)	2,05		12.5	g	−3,05	13.4 −3.95
497	8.1 (8.4)	8.25±2 8.1 1.69		+	+		rep.

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1916phae.proj.10740

Friday May 25, 1917.

Scale R Nebr. of Orion cont YELLOW

Ma8048

Kapt.		sc.1	sc.2	sc.r		g	h	P.C. sc.2
↓	303	8.4 8.1			1.62	13.3	±-3.28	13.3? from -3.28
b =	830							
13 =	794							
11 =	828							
	740	11.6						
	696	10.6						
	693	13.1						
	508	12.8						
	693a	12.1						
	806	11.1						
	705	10.6						
	806	11.6						
	700	10.6						
	551	9.2						
	532	13.4						
	805	12.2						
	490	~~10.5~~ 13.1			13.1	13.1000		
	458	11.4			11.8	11.6032		
	516	10.1			12.4	12.3011		
In dark net.	677	13.1			13.1	13.1000		
In slight net.	778	12.2			12.3	12.2501		
	793	12.1			12.1	12.1000		
	750	10.4			10.6	10.5021		
	690	11.1			10.9	11.0011		
	722	12.6 v. f.			12.4	12.5012		
	671	not too black.						
	681	"						

11—

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Saturday
Friday May 25, 1917.

Scale R Met. N Orion Cont. YELLOW
9 20 mc. 8206

		sc.1	sc.2		sc.2	P.C. sc.2
K Sig.	1	5.6 5.3 B.		g h 12.35 ± 0	12.3 12.4	12.4
	2	9.4 9.1 B		t.p.	13.2?	f.
	3	8.0 7.7	2' 7.85 7.7	ns.	ns.	
	4	8.2 7.9	8.20 00 8.2			
	5	8.2 7.9	8.20 00 8.2			
	6	10.1				
	7	11.4				
696 =	8	11.1				
	9	11.4				
	10	12.1				
	11	11.5				
	12	12.5	12.35 12 12.2			
	13	12.4	12.30 12 12.2			
	14	Var.				
	15	13.2	13.20 00 13.2			
	16	13.5	13.50 00 13.5			
	17	Var.				
Trace seen	18	f.	f			
	19	f	f.			
	20	ns.				
Ref Sq.	1	9 4.8			11.7 11.80 ± 1 11.9	−3.48 12.3 −3.98
	2	4.5		3.79	12.1 12.10 00 12.1	−3.51 12.4 −3.81
	3	5.7 5.4		3.12	12.4 12.45 01 12.5	−3.63 12.7 −3.88
	4	7.7 7.4	B.	2.00	13.6 13.65 01 13.7	−3.95 f.
	5	8.8 8.5	12 8.70 8.6	1.57a	ns.	ns.
	6	8.7 8.4	10 8.45 8.6	1.65		

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1916phae.proj.10740

Saturday May 26, 1917.

Scale R. Met. Orion cont. YELLOW

Mc 8206

	pc.1	pc.2	pc.3		Diff. Im. g	Diff. Im. h	PC. pc.2
1	8.2 7.9	8.15 01 8.1		1.77			
8		11.4		0.22			
9		11.9		−0.15 ~~0.5~~			
10		11.9		−0.01			
11		12.1		0.02			
12		11.8		−0.01			
13		13.1 13.10 00	13.1	.			
14		13.3 13.35 10	13.4	−1.13			
15		13.3 13.25 10	13.2	−0.68			
16		13.7 13.70 00	13.7				
17		13.7 13.80 01	13.9				
18		‡.	‡.				
19		‡.	‡.				
20							
4a	9.0 8.7	8.95 01	8.9		n.s.	n.s.	
6a		10.3			n.s.	n.s.	
6b		10.6					
α	B.				10.6 10.65 01	10.7	11.2
β	5.4 5.1				12.2 12.20 00	12.2	12.2
γ	5.9 5.6				12.7 12.70 00	12.7	13.1
554	B.				10.4 10.35 01	10.3	−2.63	10.8	−3.08
757	7.0 6.7		2.62		13.2 13.15 01	13.1	−3.53	13.5?	−3.83
924	5.7 5.4		3.24		12.6 12.60 00	12.6	−3.66	13.1	−4.16
776	7.6 7.3		1.85		13.1 13.10 00	13.1	−3.65	‡.	
497	8.1 7.8		1.84		‡	‡		n.s.	

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1916phae.proj.10740

Saturday, May 26, 1917.

Scale R | Neb. Orion cont. | YELLOW

Mc 8906

		rec 1	rec 2		g	h	P.C. rec 2
	303	8.0 7.7		2.02	±	±	w.s
6 =	830		.				
13 =	794		.				
11 =	828		.				
	740		12.3				
8.	696		.				
	693		13.5				
	508		12.4				
	693a		12.5				
	806		11.6				
	705		10.8				
	808		12.1				
	700		10.4				
	551	~~4+~~	9.1				
	532		13.5 13.6	13.55±0			
	805		13.1 13.1	13.1000			
	490		12.1 12.1	12.7000			
Sl. neb.	458		11.7 ~~12.4~~	11.65±0 11.6			w.s.
	516		12.2 12.4	12.30±1			
In dark neb.	677		12.4 12.4	12.40±0			
	778		12.4 12.4	12.40±0			
	793		12.1 12.2	12.15±0			
	750		10.7 10.7	10.7000			
	690		11.1 11.1	11.1000			
	722		13.3 13.5	13.40±1			
Low dark.	671		.				
	681						

10, 10 -

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Saturday May 26, 1917.

Scale AH 3 Net. Orion cont. YELLOW

11:50. B 163 Mc Cormick plate

Images 9.0 or fainter are very faint, and magnitudes must be understood.

		sc.1	sc.2		Mean	Diff.	g sc.1	g sc.2	h sc.1	h sc.2	Mean	Diff.
20 Ks	2	.			.		~~bf~~ bf.				.	
	3	B.			.		bf.		8.3		8.3	1.60
	4	B.			.		8.6		8.9		8.75 ±1	1.35
	4a	1.21			1.2	9.38		ns		n.s.	.	
	5	B.	B.		.	.	8.1		8.1		8.10 ±0	1.98
830 =	6	2.4	B		2.4	8.99		ns.		n.s.	.	
	7	.	off edge.		.							
696 =	8	3.6 poor	3.7	B.	3.65	7.99 ~~8.04~~						
	10	5.9 poor			5.9	6.40 6.55						
824 =	11	5.4	5.4	5.6	5.47	~~±1~~ 6.80 6.53						
794 =	13	5.8	5.8	5.7	~~5.80~~	~~6.63~~ 5.77 6.66 6.80						
6 =	830	2.4	B.		2.4	8.99						
13 =	794	5.8	5.8	5.7	5.77	±0 6.66						
828 on mc plate 824 on mc Cor plate	11 = 824	5.4	5.4	5.6	5.647	6.53						
	806	5.1	~~4.9~~		5.1	6.82						
8 =	696	3.7	3.6 poor	B.	3.65	7.99						
	740	5.7		5.7	5.70	±0 6.60. 6.87						
	693			9.1	9.1	4.39						
	757	B.		B.	.	.	6.6		6.8		6.70 ±1	2.91
	705	3.3		B.	3.3	8.26		ns.		n.s.	.	
	805	7.1		7.1	~~7.10~~ 7.18	±1.01 ±0 5.58 5.80					.	
	554	B.		B.	.	.	B.		10		1.0	6.72
	551	B.		B.	.	.	9.6		9.6		9.6 ±0	1.08
	593	8.8		9.1	8.95	±1 4.66						
	808	5.3		5.5	5.40	±1 6.86 7.03						
	805	7.2		7.3	7.25	±1.01 5.58 5.80 7.18						
	900	2.6		B.	2.6	8.86						

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Saturday May 26, 1917.

Sc. AH3 Net. Orion cont.

B 163 cont.

	sc.1	sc.7	Mean	Diff.	q sc.1	q sc.7	h sc.1	h sc.7	Mean	Diff.
924	B	B.	.	.	3.3		3.5	—	3.40 ±1	5.54
778	6.4	6.4	6.40 oo 6.28	6.41						
707	2.5	B.	2.5	.			ms	ms.		
677	6.5	7.1	6.80 23 6.74							
516	7.1	7.1	7.10 oo 5.46	5.64						
490	7.8 poor	7.4	7.60* 22 5.66							
458	5.1	5.1	5.10 oo 6.96							
303	B.	B.	.	.	7.1		7.1		7.10 oo	2.89
497	B.	B.	.	.	7.3		6.9		~~6.90~~ 7.00 23	2.94
β	B.	B	.	.	3.2		3.3		3.25 01	5.59
α	B.	B	.	.	1.1		1.1		1.10 oo	6.82
γ	B.	B.	.	.	5.1		5.1		5.10 oo	3.95
mmc 776 =	7.6 mc Com.	B.	B.	.	5.7		5.8		5.75 ±0	3.75
722	7.4	7.6	7.50 ±1	5.80 5.57						
690	3.4	B.	3.4 ·	8.36						
750	2.9	B	2.9 ·	8.63						
793	5.8	6.1	5.95 ±1	6.47						
In dark ed 671	3.8	B	3.8	.						
647	3.2	B.	3.2	.			two dark.			
651	6.1	6.1	6.10 oo 5.86	2						
657	~~5.9~~ 4.3	~~7.4~~	4.3	.						
652	4.9	5.1	5.00 ±1	.						
681	5.9	6.1	6.00 ±1	6.86 6.60						
b										
These stars follow 677 and is marked as 677 on mc plates	5.9 5		5.5	8.04 N.						

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Saturday May 26, 1917.

Scale AH3 Ret. Orion

B 164. (McCormick

Images ~~Magnitudes~~ 9.0 or fainter are very faint and magnitudes must be undulated.

		sc 1	sc 2	mean	Diff.	g sc 1	g sc 2	h sc 1	h sc 2	mean	Diff.
20 Ks	2	ff.		.	.	.		.		.	
	3	ff		.	.	.		↓		.	
	4	1.4		1.4	8.70	7.8		7.1		7.75	0 ± 2.35
	4a	2.2		2.2	8.38	8.1		7.9		8.00	1 ± 2.58
	5	1.5		1.5	8.58	7.4		7.3		7.35	0 ± 2.73
830 =	6	4.1	B.	4.1	7.29		7		7.		
	7	.	.	.	.		ns.		ns.		
	8	4.2	~~4.2~~	4.2	7.44		ns		ns.		
	10	6.1	6.1	6.10	0 6.20 (6.35)						
	11	5.3	5.1	5.50	± 2 6.50 ~~6.85~~						
794 =	13	5.1	6.1	5.90	± 2 6.53 (6.69) (6.47)						
6 = 830		.	B.	.	.						
13 = 794		.	~~6.1~~	.	.						
11 = 824		.	5.1	.	.						
	806	4.9	~~4.8~~	4.9	7.02						
8 = 696			.	.	.						
	740	5.6	5.8	5.70	± 1 6.60 (6.87)						
	693	8.3	7.6	7.95	3 ± 5.54						
	757	B.	B.	.	.	6.1	6.2			6.15	0 3.46
	705	3.6	B.	3.6	7.96						
	805	6.8	6.9	6.85	01 5.91 (6.13)						
	554	B.	B.	.	.	1.5	1.5			1.50	00 6.22
	551	2.3	B.	2.3	8.38		9.1		9.1	9.10	00 1.58
	532	8.1	8.1	8.40	33 5.21						
	808	5.1	5.1	5.10	00 7.16 (7.33)						
	~~805~~		.	.	.						
	700	3.4	B	3.4	8.06						

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Saturday May 26, 1917.

Scale AH 3. Neb. Orion

B 164.

				Mean	Diff.				Mean	Diff.
924	B.	B.		.	.	3.6	def?			
					6.38					
798	6.4	6.5		6.45	6.23					
707	3.7	B.		3.7	.		9.1	?	9.1	.
677	6.7	6.7		6.70	6.84					
					6.04					
516	6.7	6.7		6.70	5.86					
490	6.9	7.1		7.00	6.26					
458	5.3	5.2		5.25	6.81					
303	B.	B.		.	.		6.5	6.4	6.45	3.54
497	1.2?	B.		1.2?	8.74	6.4	6.6		6.50	3.44
β	B.	B		.	.	3.8	3.9		3.85	4.99
α	B.	B		.	.	1.8	1.7		1.75	6.17
γ	B.	B.		.	.	5.3	5.3		5.30	3.75
746	5	B.		.	.	5.7	5.7		5.70	3.80
					6.20					
722	7.1	7.1		7.10	5.97					
690	3.8	~~7.1~~		3.8	7.96		?	?		
750	3.6	B.		3.6	7.93		?	~~9.7~~	9.2	2.33
					6.94					
793	5.6	5.7		5.65	6.77					
671	4.1	B.		4.1	.					
647	3.5	B.		3.5	.	8.5	8.7		8.60	.
651	5.6	5.8		5.70	6.26?					
657	4.7	~~4.7~~		4.7	.					
652	5.2	5.1		5.15	.					
					666					
681	6.2	6.2		6.20	6.40					
	6.1	6.2		6.15	7.39?					

This star follows 677 and is the star marked 677 on Mc plates (H. Nourse)

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Visibility of scale a m.

Saturday June 16, 1917.

Scale A m. Pleiades. McCormick plates.

9:30 B 157. McCormick

Correction to Scale A Variable mean A, B on double sheets		sc.1	sc.2	Diff. using mean A, B on double sheets	Diff. g sc.1	Diff. g sc.2	Diff. h sc.1	Diff. h sc.2	Diff. B
	7	B.			B.		B		
6.95	12				3.2	3.2	3.3	3.3	3.25 3.70
7.38	15	B.			3.3	3.3	3.2	3.2	3.25 4.13
7.49	16	B			3.7	3.7	3.6	3.6	3.65 3.84
7.92	17	B			4.2	4.2 B.	4.3	4.3 B	4.25 3.67
9.02	23	1.4?		2.6	def?	6.3	5.6	5.6	5.60 5.60 (3) B 00 3.42
9.00	24	1.6		2.8	5.6	5.6	5.6	5.6	5.60 5.60 3.40
9.17	25	1.6		2.8	5.7	5.7	5.7	5.7	5.70 5.70 3.47
9.94	27	2.5		3.4	6.54	7.1		7.2	7.05 2.89
9.50	29	2.1	B.	3.6	5.90	6.2		6.2	6.20 3.30
10.66	30	3.2	B.	3.9	6.76	7.6		7.8	7.70 2.96
11.31	31	4.8	5.3	5.15	6.16	8.8?		9.0	8.90? 2.41?
11.90	32	5.1 5.7	5.6	5.6	6.25	n.s.		n.s.	
12.21	32a	5.9 5.8	5.8	5.80	6.41				
12.44	33	b	6.3	6.4	6.35	6.09			
	33a		7.1	7.1	7.10				
1340	34		7.5	7.6	7.55	5.85			
13.34	34a		7.4	7.5	7.45	5.89			
13.62	35		7.6	7.7	7.65	5.97			
14.31	35a		8.7	8.6	8.65	+5.76			
14.43	36		9.1?	9.3?	9.20	+5.23			
	36a		7.8	7.9	7.85				
	33b		7.21	7.20	7.20				
	36b		7.2 8.1	8.1	8.16				
	37		?	?					
14.12	38		8.5	8.5	8.50	5.62			
	39		?	ns?					
	40		ns	ns					

49

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Saturday June 16, 1917.

A H3
Scale ~~A 7m~~. Pleiades. Mc Cormick plates.

B 161 McCormick

				Diff. su p86	g sc.1	g sc.2	h sc.1	h sc.2		Diff.
	sc.1	sc.2								
7					B.		B.			
12					1.3		1.1		1.20	5.75
15	~~8.1~~ ~~7.8~~ B				3.1		3.2		3.15	4.23
16	B.				3.21		3.3		3.25	4.24
17	B				4.4		4.2		4.30	3.62
23	B.				7.7		?	8.1	7.90	1.12
24	B.				8.1			8.2	8.15	0.85
25	B.				8.5			def.	8.5	0.67
29	1.7	B.		1.7	8.24		?.	?.	.	.
29	B.	B.				9.21		9.5?	9.35	0.15
30	4.1	~~4.1~~ 4.		4.10	6.56		ms.	n.s.		
31	6.6	6.5		6.55	4.76					
32		~~8.1~~ 7.8		7.9	7.85	4.05				
32a		7.8		8.1?	7.95?	4.26?				
33		9.5?	ms.	9.7?	~~ft~~	9.60?	2.84?			
33a		?.	n.s.							
34		ms.								
35		ms.								
35a		ms.								
36		ms.								
36a		ms.								
33b		ms.								
36b										
37										
38		ms.								
39										

No correction applied to first scale for this plate.

10x5 Plate does not show as faint stars as preceding plate. (p.86)

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Saturday June 16, 1917.

Scale R Pleiades McCormick plates.
1—

B 162 McCormick (Unevenly-fogged or developed.)

	g sc.1	g sc.2	h sc.1	h sc.2	Diff. Mean	
7	B.		B.	B		
12	def.		2.1	3.0	3.0 · a =	3.95
15	2.9	3.2	3.5	3.8	3.50 33	3.88
16	3.7	4.0	3.6	3.9	3.95 0 ±	3.54
17	4.5	4.8	4.1	5.0	4.90 ± 1	3.02
23	6.1	7.0	7.1	7.4	7.20 ± 2	4.82
24	6.4	6.7	6.4	6.7	6.70 0 0	2.30
25	7.3	7.6 B	7.1	7.4 B.	7.50 ±	1.67
27		10.2		10.1	10.15 0 ±	−0.21
29	tb 7.9	8.7	7.8	8.1	8.00 ± ± 1	1.50
30		12.2		12.1	12.15 0 ±	−1.49
31		f.		13.5?	13.5?, a =	−2.19?
32				n.s.		

32a	6.9	7.2 ~~7.25~~	7.2	5.01
33	7.8	8.1 8.2	8.15 ± 0	4.29
33a	9.4	9.4	9.40 0 0	
34	10.1	10.1	10.10 0 0	3.30
34a	10.4	10.6	10.50 ± 1	2.84
35	11.1	11.1	11.10 0 0	2.52
35a	13.4	13.4	13.40 0 0	+0.91
36	13.5	13.4	13.45 1 0	+0.98
36a	11.2	11.1	11.15 0 ±	
36b	9.8	9.8	9.80 0 0	
~~36b~~ 36b	12.2	12.2	12.20 0 0	
37	t.b.	tb.	·	
38	12.9	12.6	12.75 1 ±	1.37
39	n.s.			

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Saturday June 16, 1917.

Scale Am Pleiades. Mc Cormick plates.

B 160. McCormick

	sc1	sc2		Diff. rec p 86	g sc1	g sc2	h sc1			Diff.	
					B		B.				
1											
12					1.5	2.7	1.6	2.8		2.75	4.20
15	+1 B.				1.9	3.0	+1	1.7	2.9	2.95	4.43
16	B.				2.1	3.1	1.9	3.0		3.05	4.44
17	B.				2.9	3.7 B	3.0	3.8 B.		3.75	4.17
23	B.				4.9	5.1 5.2 5.15	4.9	5.1 5.2	5.15	5.15	3.87
24	B				4.8	5.0 5.1 5.05	4.8	5.0 5.1	5.05	5.05	3.95
25	B				5.3	5.4 5.3 5.35	5.2	5.35	5.3 5.30	5.32	3.85
27	B.				~~6.6~~	6.6 6.6		6.6		6.60	3.34
29	B.				5.7	5.7 5.6 5.65	5.8	5.8	5.7 5.75	5.70	3.80
30	2.1	3.6 B.		3.6	7.06	sc2 7.6	7.5	7.5		7.55	3.11
31	3.9 4.00	4.1 4.50 4.5		4.50	6.81	8.3?		8.7?	from	8.50?	g 2.81?
32	4.9 5.00	5.1 5.20 5.40 5.4		5.30	6.60	7.					
32a	5.1	5.3 5.3		5.30	6.91						
33	5.8	5.8 5.8		5.80	6.64						
33a		6.4		6.4							
34		6.9	6.8	6.85	6.55						
34a		7.2	7.1	7.15	6.19						
35		7.3	7.2	7.25	6.37						
35a		8.4	8.3	8.35	5.96						
36		8.5	8.5	8.50	5.93						
36a		7.3	7.4	7.35							
33b		6.7	7.1	6.70							
36b		7.8	7.1	7.75							
37		7.	7	7							
38		7.9	8.1	8.00	6.12						
39		7.	7.								

1:45

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Tuesday June 19, 1917

Scale R.
10:05

North Polar Sequence.
MC 7664. Blue 60m. Reduction on sheets

		sc.1	sc.2	Mean	Diff. Im. sc.1 (g)	sc.2 (g)	sc.1 (h)	sc.2 (h)	Mean	Pc. sc.1	sc.2	Mean
1	B				Off pl.					Off.		
2					"					Off		
3					"					Off		
4					B.		B			6.3	6.6	6.6
5	B.				6.6 6.9		6.4	6.7	6.80 1	6.2	6.5	6.5
6					7.4	7.7	7.1	7.4	7.55 2	7.1	7.4	7.4
7					7.3	7.6	7.1	7.4	7.50 1	7.2	B 7.5	7.5
8					8.2	8.5	8.2	8.5	8.50 00	8.5	8.8 8.1	8.75 0
9	B					9.2		9.2	9.20 00		9.2	
10		3.6	Bright 3.9	3.9		10.1		9.7	9.90 2		9.7	
11		4.6	4.9	4.9		10.3		10.4	10.35 0		10.4	
12		4.8	5.1	5.1		10.67		10.7	10.70 00		10.8	
13		5.5	5.8	5.8		11.4		11.2	11.30 1		11.3	
14		6.3	6.6	6.6		11.7		11.7	11.70 00		11.6	
15		6.5	6.8	6.8		11.8		12.1	11.95 2		12.3	
16		7.1	7.4 B.	7.4		12.2		12.3	12.25 0		12.8	
17		7.5	7.8 ~~B 7.5~~	7.8		12.4		12.4	12.40 00		12.8	
18		8.1	8.4 8.3	8.35 0		13.1		12.9	13.00 1		13.4	
19		8.8	9.1 9.1	9.10 00		13.3		13.4	13.35 0		13.6	
20			9.2	9.2		13.5		13.4	13.45 0		7.	
23			10.2	10.2		13.8		13.8	13.80 00			
25			10.7	10.7		ns		ns				
26			11.5	11.5								
27			11.9	11.9 11.90 00								
28			12.4	12.3 12.35 0								
29			12.7	12.9 12.80 1								

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Tuesday June 19, 1917.

Scale R North Polar Sequence.

Mc 7664.

		sc.1	sc.2	sc.3	Mean	q sc.1	q sc.2	q sc.1	q sc.2	q Mean	Qc. sc.1	Qc. sc.2	Qc. Mean
	30		12.7 poor.	13.1 poor	12.90 ± 2								
	31		13.2	13.4	13.30 ± 1								
	32		13.6	13.5	13.55 ± 1								
	33		13.9	13.8	13.85 ± 0								
	34		13.9 poor.	13.7	13.80 ± 1								
	35		↓	↓									
	36		ns.	ns.									
2	r	B.				7.3	7.6	7.3	7.6	7.60 ± 0	7.8	8.1	7.9	8.00 ± 1
3	r	B.				~~7.3~~ 8.3	8.6	~~7.8~~ 8.2	8.5	8.55 ± 1	8.9	9.2	9.2	9.20 ± 0
4	r	4.0	4.3		4.3		9.1		9.2	9.15 ± 0		9.8		9.8
5	r	5.1	5.4		5.4		10.3		10.2	10.25 ± 0		10.8		
6	r	5.5	5.8		5.8		10.5		~~10.5~~ 10.6	10.55 ± 0		11.2		
7	r	6.1	6.4		6.4		11.5		11.6	11.55 ± 0		12.2		
8	r	6.7	7.0		7.0		12.1		12.2	12.15 ± 0		12.4		
9	r	7.4	7.7	7.7	7.70 ± 0		12.4		q	12.4 a.		13.1		
10	r	8.3	~~8.8~~ 8.8	9.3	8.80 ± 0		13.1		13.2	13.15 ± 0		13.5		
11	r		~~10.1~~	ns.	9.3 .		q		13.7	13.7 . a		13.1		
12	r		10.3		10.3 .		↓		↓			ns.		
+87	12	B				8.6	8.9	8.6	8.9	8.90 ± 0	~~9.5~~	9.5		
	15	:				7.5	7.8	7.7	8.0	7.90 ± 1	8.4	~~8.7~~		8.7
+88	2	:					9.1		8.9	9.00 ± 1		9.4		
	9	5.4	5.7		5.7		q		10.1	10.1 . a		10.6		
	10	:					9.2		9.1	9.15 ± 1		~~9.8~~ 9.9		
+88	11	:					9.5		9.6	9.55 ± 0		9.9		
+88	8	:					t.f.		9.5? poor	9.5? . a		10.3		
	8	B.				q		8.4		8.4 . a		9.6		

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Tuesday June 19, 1917.

Scale R. North Polar Sequence.
Mc 7664.

		pc.1	pc.2	g sc.2	h sc.2	Mean		P.C. sc.2
	4 a	5.4	5.7				1	11.1 poor.
	5 a	6.5	6.8.					11.9
dose dbl.	6 a	6.5	6.8 B					12.1
	7 a		9.4					n.s.
	8 a		11.4					
	9 a		11.5					
	10 a		11.9					
	11 a		12.1					
	12 a		12.3					
	13 a		12.1					
	14 a		sup.					
	15 a		13.3					
	16 a		13.5					
	17 a		13.7					
	18 a		f.					
014		6.1	6.4	11.5	11.4	11.45 10		11.8
015		6.2	6.5	11.4	sup.	11.4 a.		11.9
017		7.6	7.9	12.3	12.3	12.30 00		12.5
018		7.8	8.1	12.5	sup.	12.5 a.		13.1
019		8.2	8.5	13.1	13.1	13.10 00	~~13~~	13.5
020		8.8	9.1	13.2	tp.	13.2 a.		13.6
021			9.5	13.5	13.4	13.45 10		f.
022			9.8	tp	13.6	13.6 . a		
023			9.5					
024			10.1					
025			10.6					

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Tuesday June 19, 1917 -

Scale R North Polar Sequence.

Mc 7664 -

	acz
026	11.4
027	11.21
028	11.8
029	12.1
030	12.2
031	12.5
032	12.8
033	12.6
034	13.1
033a	* 13.5
035	f.
036	m.s.
037	
038	
039	

17

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Wednesday June 20, 1917.

Scale R
9130—

North Polar Sequence. MC 7747

Reduction on sheets

	sc.1	sc.2	Mean	P.C. sc.2 sc.1
1				
2				
3				
4				B.
5				~~8.6~~ 7.2 7.5
6	B.			7.8 8.1
7	B			8.4 8.7 8.4 8.55 1z
8	B			9.4
9	5.3	5.6	5.6	10.3
10	5.7	6.0	6.0	10.4
11	6.2	6.5	6.5	11.1
12	6.4	6.7	6.7	11.3
13	7.21	7.5	7.5	11.9
14	7.4	~~7.7~~ 7.9 8.2	7.7	~~11.9~~ 12.1
15	~~8.21~~	8.1	8.15 0z	12.6
16	8.3	8.6 8.3	8.45 2z	13.1
17	8.6	8.9 8.4	8.65 3z	13.1
18		9.3	9.3	13.5
19		9.8	9.8	n.s.
20		10.1	10.1	
23		10.7	10.7	
25		11.21	11.2	
26		11.7	11.7	
27		11.8 12.0	11.90 1	
28		12.6 12.4	12,50 1z	
29		~~12.1~~ 13.0 13.2	13.10 2z	

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Wednesday June 20, 1917.

Scale R North Polar Sequence.

Mc 7742.

	g sc.1	g sc.2	h sc.1	h sc.2	Diff. Im. Mean
1	off.				
2	|				
3	|				
4	B				
5	7.4	7.7	7.2	7.5	7.60 1±
6	7.6	7.9	7.6	7.9	7.90 00
7	7.9	8.2	g		8.2 a.
8		9.4		9.3	9.35 0±
9		9.4		9.5	9.45 01
10		10.2		10.1	10.15 0±
11		10.5		10.5	10.50 00
12		11.1		10.9	11.00 1±
13		11.2		11.3	11.25 01
14		11.6		11.6	11.60 00
15		12.4		12.1	12.25 2±
16		12.4		12.5	12.45 01
17		12.6		12.6	12.60 00
18		13.1		12.9	13.00 1±
19		13.3		13.2	13.25 10
20		13.5		13.4	13.45 10
23		n.s.		+	
25				n.s.	
26					
27					
28					
29					

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Wednesday June 20, 1917.

Scale R North Polar Sequence.
MC 7742

		sc.1	sc.2	sc.3	Mean	P.C. sc.1	sc.2
	30		13.1	13.2	13.15 ± 0		
	31		13.4	13.5	13.45 01		
	32		13.7	13.8	13.75 ± 0		
	33		dup:	dup.	.		
	34		13.8	13.8	13.80 00		
	35		½	½	.		
	36		ms.		.		
2r		4.9	5.2		5.2	8.9 8.8 8.6	9.1 9.2 9.08 ± 010
3r		5.4	5.7		5.7	10.2	
4r		5.6	5.9		5.9	10.4	
5r		6.3	6.6		6.6	11.4	
6r		6.5	6.8		6.8	11.8	
7r		7.3	4.6	B.	7.6	12.2	
8r		8.2	8.5	8.2	8.35 1±	t.fr.	
9r		8.8	9.1	8.9	9.00 1±	t.fr.	
10r			9.9		9.9	ms.	
11r			10.4		10.4		
12r			10.8		10.8		
+87	12	5.3	5.6		5.6	10.4	
	15	B.			.	9.3	
+88	80	B.			.	10.5	
	86	B			.	10.4	
	90	6.3	6.6		6.6	11.1	
	105	B.			.	10.1	
+87	105	5.4 5	5.8		5.8	10.3	
+88	20	5.3	5.6		5.6	10.2	

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Wednesday June 20, 1917.

Scale R North Polar Sequence.

Mc 7742

			g		h		
		sc 1	sc 2	sc 1	sc 2	Mean
30	4 R	.		.		.
31	5 R	.		.		.
32	6 R	.		.		.
33	7 R	.		.		.
34	8 R	.		.		.
35	9 R	.		.		.
36	10 R	.		.		.
2 R	11 R	8.3	8.6	8.1	8.4	8.50 1
3 R	12 R	8.9	9.2		9.2	9.20 00
4 R	13 R		10.2		9.7?	9.95? 23
5 R	14 R		10.6		10.6	10.60 00
6 R	15 R		11.4		11.2	11.30 1
7 R	16 R		12.1		11.8	11.95 1
8 R	17 R		nearly sup.		12.3	12.3 a
9 R	18 R		12.5		12.6	12.55 1 0
10 R	0 4		13.3		t.p.	13.3 a
11 R	0 5		13.5		13.5	13.50 00
12 R	0 7		?		n.s.	.
+87	12		9.2	8.5	8.8	9.00 2
+87	15		8.6	8.2	8.5	8.55 0 1
+88	80		9.3		9	9.3 a
	86		9.2		9.1	9.15 0 1
	90		10.1		t.p.	10.1 a
	115		10.2		10.1	10.15 0 1
+87	105		9.6		10.1	9.85 2 3
+88	2		10.1		9.1	9.90 22

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Wednesday June 20, 1917.

Scale R North Polar Sequences.

NC 7742

	sc.1	sc.2	Mean	Diff. Inn. sc.1	sc.2	Mean
4a	6.7	7.0 B.	7.0	11.4	11.3	11.35 0.1
5a	7.5 7.6 7.8 7.9	8.1	7.93 ± 0.2	11.9	12.2	12.05 ± 2
6a	8.1 8.4	8.3	8.35 0.1	12.3	12.3	12.30 0.0
7a	10.2			13.2	13.3	13.25 0.1
8a	11.8			n.s.	n.s.	
9a	~~10.8~~ 12.1					
10a	12.5					
11a	12.5					
12a	12.6					
13a	12.7					
14a	13.1					
15a	13.4					
16a	13.5					
17a	f			P.C.		
18a	n.s.			sc.2		
014	7.2 7.5	B.	7.5	12.6		
015	7.5 7.8	B	7.8	12.5		
017	8.4 8.7	8.4	8.55 ± 2	13.21		
018	8.5 8.8	8.9	8.85 0.1	13.4		
019	8.9 9.2	9.3	9.25 0.1	f.		
020	9.5					
021	10.21					
022	10.5					
023	10.8					
024	10.9					
024.5	10.9					

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Wednesday June 29 1917.

Scale R North Polar Sequence.

Mc 7742

	P.C. g sc1 sc2	f sc1 sc2
4 ν	11.9	
5 ν	12.6	
6 ν	12.7	
7 ν	∴	
8 ν	n.s.	

	Diff. Im. g sc2	h sc2	Mean
014	11.5	11.6	11.55 ± 0
015	11.8	11.7	11.75 0 ±
017	12.5	12.6	12.55 ± 0
018	12.4	12.5	12.45 01
019	12.3	12.3	12.30 00
020	13.4	13.5	13.45 01
021	13.4	13.5	13.45 01
022	∴	∴	

1130

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Wednesday June 20, 1917.

Scale R North Polar Sequence.
Mc 7747

	sc.1	sc.2
026		11.5
027		11.9
028		12.2
029		12.6
030		12.6
031		12.7
032		13.3
033		13.3 ~~12.7~~ ws.
033a		f?
034		13.4
035		f.
036		f.
037		ws

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Wednesday June 20, 1917.

Scale R North Polar Sequences.

Mcn742

col

026
027
028
029
030

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Thursday June 21, 1917.

Scale R

North Polar Sequence.

Reduction on sheets

9

MC 9376.

	sc.1	sc.2	Mean	P.C. sc.1	sc.2
1	B.			4.4? Brt.	4.7?
2	|			off.	
3	|			off	
4	|			5.6	5.9
5	~~b.t~~			6.1	6.4
6	|			6.7	B. 7.0
7	|			7?	B 7.5
8	|				9.1
9	B				9.6
10	3.4	3.7	3.7		10.1
11	4.2	4.5	4.5		10.4
12	4.5	4.8	4.8		10.5 6
13	5.4	5.7	5.7		11.3
14	5.8	6.1	6.1		12.1
15	6.8 6	6.9	6.9		12.4
16	7.3	7.6	7.6		12.6
17	7.4	7.7 ~~4.5~~	7.7		13.1 poor
18	7.9	8.2 8.1	8.15 0 1		13.3
19	8.5	8.8 8.8	8.80 00		d.
20	9.1	9.4 9.2 1	9.30 11		
23		10.2 1	10.2		
25		10.8	10.8		
26		11.4	11.4		
24		11.8	11.8 11.80 00		
28		12.2	12.2 12.20 00		
29		13.1	13.0 13.05 10		

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Thursday June 21, 1917.

Scale North Polar Sequence.

Mc 9376.

	g		h		
	sc.1	sc.2	sc.1	sc.2	Mean
1	B.				.
2	.				.
3	.	.			.
4	5.0?	5.3?			5.3?
5	6.5	6.8	6.1	6.4	6.60 22
6	6.6	6.9	6.5	6.8	6.85 10
7	6.8	7.1	6.6	6.9	7.00 11
8	8.2	8.5	8.1	8.4	8.45 10
9		9.2 ~~9.4~~		9.1	9.15 01
10		9.4		9.4	9.40 00
11		10.1		10.3	10.20 11
12		10.4		10.3	10.35 01
13		10.9		11.1	11.00 11
14		11.1		11.3	11.20 11
15		11.9		11.6	11.75 12
16		12.1		12.1	12.10 00
17		sup.		12.4	12.4 . 00
18		12.5 from		12.8	12.65 12
19		13.3		13.2	13.25 10
20		13.4		13.5	13.45 01
23		13.7		13.7?	13.70? 00.
25		n.s.		n.s.	

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Thursday June 21, 1917.

Scale R North Polar Sequences.

Mc 9376-

				B.C					
	Dc.1	Dc.2		Dc.1	Dc.2				
30	13.1								
31	13.4								
32	13.4								
33	13.6								
34	m.s.								
35									
36									
2r	B.			16	7.9	7.9	7.90	00	
3r	B.				9.3				
4r	3.8	4.1			9.4				
5r	5.4	5.7			11.1				
6r	5.5	5.8			11.3				
7r	6.0	6.3			12.1				
8r	6.7	7.0			12.4				
9r	7.4	7.7	B.		13.2				
10r	8.3	8.6	8.5	8.55	00		+f.		
11r		9.3					m.s.		
12r		10.1							
+87 12	B.			B.	9.5				
+87 15	B			8.2	8.5	8.5	8.50	00	
+88 2	B.				9.6				
+88 80	B.				10.1				
86	B.				9.5				
90	4.8	5.1			10.3				
115	B.				9.8				
+84 105	3.9	4.2			9.7				

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Thursday June 21, 1917.

Scale R North Polar Sequence.

mc 9376 –

	g sc.1	g sc.2	h sc.1	h sc.2	Mean
30	.				.
31	.				.
32	.				.
33	.				.
34	.				.
35	.				.
36	.				.
2r	7.1	7.4	7.2	7.5	7.45 01
3r	8.2	8.5	8.2	8.5	8.50 00
4r	8.9	9.1		8.8	8.95 1±
5r		10.3		10.4	10.35 ± 0
6r		10.9		10.6	10.75 1±
7r		11.6		11.1	11.35 2±
8r		12.1		12.1	12.10 00
9r		12.6		ruf.	12.6 a.
10r		13.5 ~~13.7~~		13.2	13.35 1±
11r		13.7		13.5	13.60 1±
12r		13.7		?.	13.7 a.
+87 12	8.5	8.8	8.8	9.1	8.95 ±1
+87 15	7.5	7.8	7.6	7.9	7.85 01
+88 2	8.7	9.0	8.8	9.1	9.05 01
+88 80	8.4	8.7 8.7		q	8.70 00
86	8.2	8.5 8.4		q	8.45 10
90		q		10.1	10.1 · a
115	9.4	9.1		9.1	9.10 00
+87 105		9±	8.9	9.2	9.20 00

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Thursday June 21, 1917.

Scale R North Polar Sequence.

Mc 9376

			P.C	
	sc 1	sc 2	sc 1	sc 2
4a	5.4	B. 5.7		11.1
5a	6.4	B 6.7		12.3
6a	6.8	B 7.1		12.5
7a		9.2		∫.
8a		11.1		
9a		11.4		
10a		12.1		
11a		12.3		
12a		12.2		
13a		12.3		
14a		12.6		
15a		13.2 from		
Sm larger hazy. 16a		13.3? v.f.		
17a		n.s.		
18a		n.s.		
014	6.2	6.5		12.1
015	6.0	6.3		12.1
017	7.4	7.7		13.1? v.f.
018	7.5	7.8 ~~7.6~~		13.1 from
019	8.2	8.5 8.5 8.50 oo		∫.
020	8.8	9.1 9.1 9.10 oo		
021	9.0	9.3 9.3 9.30 oo		
022		9.9		
023		9.6		
024		10.2		
025		10.4		

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Thursday June 21, 1917 –

Scale R North Polar Sequence.

MC 9376–

	g		h		
	sc.1	sc.2	sc.1	sc.2	Mean
4 a	10.8		10.8		10.80 00
5 a	11.7		11.5		11.60 ±
6 a	12.1		12.2		12.15 ± 0
7 a	13.4		13.5		13.45 01
8 a	n.s.		n.s		
9 a	n.s.		n.s		
10 a					
11 a					
12 a					
13 a					
14 a					
15 a					
16 a					
17 a					
014	11.3		11.4		11.35 ± 0
015	11.2		nearly sup.		11.2 a.
016	12.4		12.4		12.40 00
018	12.6		sup.		12.6 a.
019	13.3		13.1		13.20 ±
020	13.3		13.3		13.30 00
021	13.6		13.4		13.50 ±
022	g.		g.		
023	g.		g.		
024	n.s.		n.s.		
025					

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Thursday June 21, 1917.

Scale R North Polar Sequence.

Mc 9376

	pc.
026	11.2
027	11.3
028	11.9
029	12.1
030	12.2
031	12.8
032	13.1
033	12.9
034	13.3
035	13.6
036	13.3
037	∓.
038	n.s.

1050

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Saturday June 23, 1917.

Scale R — North Polar Sequence. — YELLOW

9 — mc 9753 — Reduction on sheets.

	sc.1	sc.2	Mean	Diff. Inn. sc.1	sc.2	sc.1	sc.2	Mean	Pc. sc.1	edge.
1	B			gf					5.5? Extreme	5.8?
3	.			+.					gf	
3	.			:					gf.	
4	1			gf		gf			7.2	7.5
5	B.			7.6	7.9	7.4	7.7	7.80 1±	8.4	8.7 7.6 8.65 1o
6	|			8.3	8.6	8.6	8.9	8.75 ±1	9.4	
7	|			9.3		9 10.1		9.20 1±	10.0	
8	B.			10.4		10.4		10.40 oo	10.5	
9	B.			11.1		11.4		11.40 oo	11.2	
10	5.2	5.5	5.5	11.8 10.2		11.5		11.65 2±	11.6	
11	6.2	6.5	6.5	12.2		12.2		12.20 oo	12.2	
12	6.6	6.9	6.9	12.2		12.3		12.25 01	12.3	
13	7.4	7.7 7.1	7.7	13.0		12.6		12.80 2±	13.1	
14	8.0	8.3 8.1	8.20 1±	13.2		13.2		13.20 oo	13.3	
15	8.4	8.7 8.3	8.50 2±	13.4		13.5		13.45 01	13.4	
16		9.4	9.4	13.5		gf		13.5 a.	+.fa	
17		9.4	9.4	13.7		gf		13.7 a.		
18		10.2	10.2	+.		+.				
19		10.8	10.8							
20		11.1	11.1							
23		11.7	11.7 11.70 oo							
25		12.4	12.4 12.40 oo							
26		12.5	12.6 12.55 1o							
27		13.4	13.4 13.40 oo							
28		13.5	13.5 13.50 oo							
29		+.	+							
30		ns.	ns							

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Saturday June 23, 1917.

Scale R North Polar Sequence. YELLOW

Mc 9753

			P.C.	
	sc.1	sc.2	sc.1	sc.2
2r	B		7.8	8.1
3r				9.9
4r	B.			10.5
5r	4.5?	4.8?		11.3
6r	5.8	6.1		11.8
7r	6.4	6.7		12.2
8r	7.4	7.7B		13.0
9r	8.6	8.9 8.8 8.85 10		tb.
10r		10.9		ms.
11r		10.4		ms.
12r		11.3		ms.
+87 12	B			10.2
+87 15				10.4
+88 2				10.6
+88 80				11.6
86				11.3
90				11.4
105	B.			10.6
115	5.2	5.5		11.8
4a	6.6	6.9 B.		12.5
5a	7.4	7.5 7.6		12.6
6a	8.1	8.4 8.2 8.30 12		13.1
7a		11.6		ms.
8a		12.5		
9a		tb.		
10a		13.1		

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Saturday June 23, 1917.

Scale R North Polar Sequence. YELLOW

mc 9753

	q sc.1	q sc.2	h sc.1	h sc.2	Mean
2r	7.2	7.5	7.?	7.5	7.50 ..
3r		9.4		9.4	9.40 ..
4r		10.4		10.6	10.50 ± 1
5r		11.1		11.2	11.15 ± 0
6r		12.1		11.5	11.80 3 3
7r		13.1		12.3	12.70 4 4
8r		9f		12.7	12.7 . a
9r		13.2		13.4	13.30 ± 1
10r		ms.		ms.	.
11r		ms.		?.	.
12r				ms.	.
+87 12		10.2		10.2	10.20 ..
15		10.5		17.4	10.45 ± 0
+88 2		10.3		10.4	10.35 ± 0
80		9f		11.8	11.8 . a
86		11.4		11.3	11.35 0 1
90		11.3		11.5	11.40 ± 1
105		10.5		10.7	10.60 ± 1
115		11.6		11.5	11.55 0 1
4s		12.5		12.6	12.55 ± 0
5s		9f		12.4	12.4 . a
6s		13.2		13.2	13.20 ..
7s		ms.		ms.	.
8s		ms.		ms.	.

Reseas. Sept 8, 11.
11.9 11.5
13.1 12.6
accidental error in meas. 12.3. ins. very poor.

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~~North~~ Saturday June 23, 1917.

Scale R North Polar Sequence. YELLOW

Mc9753

	pc.1	pc.2	P.C pc.2
11a	13.4		
12a	13.4		
13a	13.3		
14a	13.7		
15a	t.		
014	7.7 8.0	8.0 8.00 .00	13.2
015	8.4 8.7	8.8 8.75 .10	t.p.
017	10.1		
018	10.1		
019	9.6		
020	10.5		
021	11.1		
022	11.4		
023	11.8		
024	11.7		
025	12.1		
026	12.9		
027	13.1 ~~12~~		
028	13.3		
029	13.5		
030	t.		
031	ns.		
032	t?		

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Saturday June 3, 1917.

Scale R North Polar Sequence. YELLOW

Mcg 753

g h

sc.1 sc.2

014	gf	13.1	13.1 . a
015	13.4	13.5	13.45 01
017	7	7.	.
018	7	13.6	13.6 . a
019	13.7	13.6	13.65 10
020	ws.	ws.	
021			
022			

10:30

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1916phae.proj.10740

Saturday June 23, 1917.

Scale m. M 15

2-

X 8930

~~7775~~

New Seq. on P 3396

		sc.1	sc.2	sc.2		Diff (9a:205)				
Old Seq.	h	60 5.8	6.2		6.10 11	9.00				
	k	64 6.2	6.4		6.40 00	8.80				
	l	68 6.6	6.8		6.80 00	8.50				
	m		7.2	7.2	7.20 00	–				
	m'		7.1	7.2	7.15 10	8.35				
	n		7.5	7.3	7.40 11	8.20				
	n'		7.5	7.3	7.40 11	8.20				
	o		7.7	7.8	7.75 10	8.25				
	o'		7.3	7.4	7.35 10	–				
	p		8.21	8.1	8.15 01	8.25				
	q		8.5	8.5	8.50 00	8.40				
	q'		8.6	8.5	8.55 01	8.15				
	p'		8.1	7.9	8.00 11	8.20				
						Cu.	Magn	Cu.	Magn.	
New Seq.	l		7.2	7.2	7.20	0.84	8.04	8.32	15.52	
	m		7.6	7.5	7.55	0.82	8.37	8.22	16.27	77
	n		7.6	7.6	7.60	0.82	8.42	8.22	15.82	
	o	bt w.s.	7.8	7.6	7.70	0.82	8.52	8.21	15.91	
	p		8.1	8.1	8.10	0.82	8.92	8.23	16.38	
	q		8.3	8.2	8.25	0.83	9.08	8.24	16.49	
	r		8.4	8.3	8.35	0.83	9.18	8.25	16.60	
	s		9.3	9.1	9.20	,	,	,	,	
	t		9.5	9.6	9.55	,	,	,	,	
	u		9.7	9.7	9.70	,	,	,	,	

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Saturday June 23, 1917.

Scale ~~11~~ 4 M15.

X ~~69~~ 8780

	sc.1	sc.B	sc.C	sc C.		Diff.			
h	~~7.9~~	7.9 8.2	8.5	7.70	2 2	7.40			
k		8.4 8.2	8.2	8.20	0 0	7.00			
l		8.4 8.6	8.3	8.25	0 1	7.05			
m		8.6 8.2	8.6 ~~8.9~~ 8.7	8.65	1 0				
m'		8.6	8.1	8.45	2 3	7.05			
n			8.6 ~~8.6~~	8.60	0 0	7.00			
n'		~~10.1~~	~~10.1~~ w.s.	8.7		6.90			
o		~~7.1~~	~~9.5~~ 9.4	9.6	9.50	1 1	6.50		
p			9.8	10.1			6.30		
q			~~10.7~~	10.4			6.50		
q'			7.	7.					
p'		~~10~~	~~9.9~~ 9	9.6	9.75	1 2	6.45		
o'			8.7	8.8	8.75	1 0	Cw.		
l		~~8.6~~ B	8.6	8.6	8.60	0 0	0.70	9.30	6.89 15.49
m		8.6 B	8.6	8.6	8.60	0 0	0.70	9.30	6.89 15.49
n			8.9	8.7	8.80	1 1	0.69	9.49	6.81 15.61
o			9.5	9.3	9.40	1 1	0.66	10.06	6.54 15.94
p			9.6	9.4	9.50	1 1	0.65	10.15	6.50 16.00
q			10.2	10.0	10.10	1 1	0.64	10.74	6.40 ~~16.50~~
r			10.7?	10.5? ft	1460?	1 1	0.65	11.35?	, ,
s			7.	7.	,		,	,	, ,
t			w.s.	w.s.	,		,	,	, ,
u									

SCM - not composite images.

7.45

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Tuesday June 26, 1917.

Scale I
9:75

North Polar Sequence. L'

YELLOW

Reduction on sheet 6

Mc 10259

	sc.1	sc.2	sc.3	Mean	P.C. sc.1	sc.2	sc.3
1	B				3.4? Bet.		
2					off		
3					off		
4					4.9		
5					5.1		
6					6.4		
7					6.8		
8					7.9	7.7	
9	B				8.8	8.4	
10	2.2			2.2	8.8		
11	3.4			3.4	9.5		
12	3.7			3.7	9.8		
13	4.7	5.1		4.90 ±2	10.4		
14	5.2	5.4		5.30 ±1	10.6		
15	5.7	5.9		5.80 ±1	7.		
16		6.5	B	6.5	ms.		
17		6.6	B	6.6			
18		7.4	7.3 7.4	7.35 ±0			
19		8.2	7.9 7.9	7.90 ±0			
20		8.5	8.2 8.2	8.20 ±0			
23			8.8				
25			9.5				
26			9.6				
27			10.5				
28			10.6?	poor.			
29			m.s.				
30			m.s.				

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Tuesday June 26, 1917.

Scale 4" = 1 Mv. North Polar Sequence. L' YELLOW

mc. 10259

	g			h			
	sc 1	sc 2	sc 3	sc 1	sc 2	sc 3	Mean
1	B			g			.
2	~~ff~~			.			.
3	gg			.			.
4	B			g			.
5	4.9			5.1			5.00 ± 1
6	~~5.8~~	5.8			5.8		5.80 00
7		6.7	6.4		6.4		6.50 2±
8		7.7	7.5 7.4		7.5	7.4	7.43 ,00
9		8.5	8.2 8.3		8.4	8.1	8.20 01
10		8.5	8.2 8.6		8.8	8.4	8.40 ± 20
11			9.1			9.2	9.15 ± 0
12		@	9.4			9.3	9.35 01
13			10.2			10.1	10.15 01
14			10.5			10.3	10.40 1±
15			10.9			tb.	10.9 @ .
16			7.			7.	
17							
18							
19							
20							

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Tuesday June 26, 1917.

Scale Y North Polar Sequence L' YELLOW

Mc. 10759

	sc.1	sc.2	sc.3	P.C. sc.1	sc.2	sc.3
2r	B.			5.6	B.	
3r	B.			7.1	7.0	6.9 6-95 ±
4r	B.					7.8
5r	1.5					8.5
6r	3.0					8.9
7r	4.2	4.2000	4.2			9.6
8r	5.4	5.35 0 ±	5.3			?
9r	~~6.2~~		6.2			m.s.
10r		7.9	7.7			
11r		7.8	7.6			
12r		8.8	8.4			
+87 12	B			scr.		
15	B.			9s	7.9	
+88 2	B.					7.8
80	9s					8.7
86	B.					8.6
90	2.4					8.5
105	B.					8.0
115	7.6					8.8
4a	4.0					9.8
5a	4.6	4.70 ± 1	4.8			10.1?
6a	5.5	5.50 0 0	5.5			~~H.~~
7a		8.3?	8.0? 8.0 8.00? 0 0			
8a			9.3			
9a			10.0			
10a			10.6?			
11a			m.s.			

nearly sep.

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Tuesday June 26, 1917.

YELLOW

Scale y North Polar Sequence.

mc 10259.

	g sc.1	g sc.2		h sc.1	h sc.2		mean
2r	4.8	B.		5.1			4.95 ±1
3r	6.5	B			6.6		6.55 ± 0
4r		7.9	7.7 7.8		7.8	7.6	7.70 0 ±
5r		8.1	7.8 7.7		8.3	8.0	7.83 0 ± 2
6r			8.9			8.5	8.70 2 ±
7r			9.7			9.8	9.75 ± 0
8r			10.0			10.4?	10.20? ± 2
9r			?			?	
10r			ns.			ns.	
11r			ns.			ns.	
12r			ns.				
+87 12		7.3	7.2		6.9		7.05
15		7.5	7.4		7.8	7.6	7.50 ± 1
+88 2		7.8	7.6		7.9	7.7	7.65 0 1
80		8.1	8.3 8.5			8.6	8.47 ± 0 1
8b		8.8	8.4 8.5			8.4	8.47 (3) 0 1 0
9o		8.9	8.5			8.6	8.55 ± 0 X
105		8.2	7.9		7.9	7.7	7.80 0 ±
115		8.9	8.5 8.1			8.5	8.57 ± 0 1 ±
4R			9.5			9.5	9.50 0 0
5R			9.6			9.3	9.45 2 ±
6R			10.6			10.7	10.65 0 1
7R			?			?	
8R			ns.			ns.	
9R			ns.			ns.	
10R							

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Tuesday June 26, 1917.

YELLOW

Scale 4 North. Polar Sequence.

Mc 10 259

Pc.

	Sc.1	Sc.2	Sc.2	Mean	Sc.3
11a		ns.			
12a		ns.			
13a					
14a		ns.			
15a					
014		5.4	8.	5.4	10.3' from
015		5.7	8	5.7/4	7.
~~016~~					
017		6.8	6.9	6.85 01	ns.
018		6.9	6.9	6.90 00	
019		6.8	6.8	6.80 00	
020		7.8 7.6	7.6	7.60 00	
021		8.4 8.1	8.0	8.05 10	
022			8.5		
023			8.6		
024			8.7		
025			9.1		
026			10.1		
027			10.3		
028			10.7		
029			~~ns~~ t.b.		
030			ns.		
031					
032					

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1910phae.proj.10740

Tuesday June 26, 1917.

YELLOW

Scale 4 North Polar Sequence.

	MC 10259.	
	g	h.
	Dec 3	Dec 3
11 m		
12 m		
13 m		
14 m		
014	10.5	10.6 10.55 ± 0
015	10.8	susp 10.8 a.
017	ns	ns.
018		

1.30

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Monday, June 2, 1917.

YELLOW

Reduction on sheets

Scale R

12:15

North Polar Sequence.

MC 8055

	sc. 1	sc. 2		sc. 1	sc. 2
1				off.	
2				off	
3				7.5	7.8
4				off.	
5				8.6	8.9 8.6 8.75 1=
6				9.3	
7				10.2	
8				10.8	
9	(8)			11.7	
10	5.4	5.7	5.7	11.8	
11	6.3	6.6	6.6	12.3	
12	6.5	6.8	6.8	12.5	
13	7.4	7.7 ~~7.6~~	7.7	13.2	
14	7.5	7.8 ~~8.1 7.8~~	7.8	13.4	
15	8.2	8.5 8.9	8.60 1	13.7	
16	9.0	9.3 9.1	9.20 1	ms.	
17		9.4	9.4		
18		10.3	10.3		
19		10.8	10.8		
20		11.1	11.1		
23	~~21~~	t.p.			
25	~~22~~	12.6	12.5	12.55 0	
26	~~23~~	~~12~~ t.p.	t.p.		
27	~~24~~	13.3	13.2	13.25 10	
28	~~25~~	13.4	13.4	13.40 00	
29	~~26~~	13.4	13.6	13.50 1	
30		t.	t.		

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Monday July 2, 1917.

YELLOW

Scale R March Polar Sequence.

MC. 8055

	g		h		Diff. Inv.
	sc.1	sc.2	sc.1	sc.2	Mean
1	offpl.		off		
2	off		off		
3	fp.		fp.		
4	off		off		
5	7.4	7.7	7.2	7.5	7.60 1
6	8.6	8.9	8.3	8.6	8.75 1
7	fp.			9.4	9.4 .a
8		10.4		10.1	10.25 2
9		11.2		11.3	11.25 0
10		11.7		11.7	11.70 00
11		12.1		12.2	12.15 1 0
12		12.5		12.5	12.50 00
13		12.6		12.8	12.70 1
14		12.9		12.8	12.85 1 0
15		f.		13.5	13.5 .a
16		f.		f.	
17		m.s.		m.s.	
18					
19					
20					

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Monday July 2, 1917.

YELLOW

Scale R North Polar Sequence.

Mc 8055

	sc.1	sc.2	G.C. sc.1	sc.2
2r	B.		8.2	8.5 8.5 8.50.0
3r	B		10.1	
4r	B		11.1	
5r	4.5	4.8	11.1	
6r	5.8	6.1	12.1	
7r	6.8	7.1	12.9	
8r	7.6	7.9 B.	13.3	
9r	8.7	9.0 9.1 9.05.0	13.9 ? ft	
10r		10.5		
11r		10.4		
12r		11.1		
+87 12	B		10.3	
15			11.9	
+88 21			10.9	
80			12.1	
86			11.8	
90			12.1	
105			11.1	
115	B		12.1	
4s	7.1	7.4	12.7	
5s	7.4	7.7 B.	12.9	
6s	8.2	8.5 8.4 8.45.0	13.8	
7s		t.p.	ns	
8s		12.8		
9s		t.p.		
10s		13.3		
11s		13.1 ?		

nearly sep.

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Monday July 2, 1917.

YELLOW

Scale North Polar Sequence.

Mc 8055

Diffr. Inn.

	g sc.1	g sc.2	h sc.1	h sc.2	Mean
2n	7.1	7.4	7.2	7.5	7.45 01
3n		9.4	9.1	9.4	9.40 00
4n		10.4		10.4	10.40 00
5n		11.1		10.7	10.90 22
6n		t.p.		11.8?	11.8? .a
7n		12.4		t.p.	12.4 a.
8n		12.9		13.1	13.00 ±1
9n		13.4		13.5	13.45 01
10n		n.s.		n.s.	.
11n		n.s.		n.s.	.
12n		n.s.			.
+87 12		10.1		10.1	10.10 00
15		10.3		10.5	10.40 ±0
+88 2		10.2		10.1	10.15 01
80		g		11.7	11.7 . a
86		g		g	.
90		11.3		11.4	11.35 ±0
105		10.4		10.4	10.40 00
115		12.1		12.1	12.10 00
4s		12.4		12.5	12.45 01
5s		12.6		12.4	12.50 ±1
6s		13.3		13.3	13.30 00
7s		n.s		n.s	
8s					
9s					

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Monday July 2, 1917

YELLOW

Scale R South Polar Sequence.

MC 8055

		sc 1	sc 2		P.C. sc. 2
	1^2 a	13.4			.
	1^3 a	1^3 9.3			.
	1^4 a	7 + t.p.			.
	014	8.1	8.4	8.2 1 8.30 1 2	13.1
	015	8.4	8.7	8.5 8.60 1 2	13.5
	017	9.7			
	018	10.1			
	019	9.8			
	020	10.9			
	021	10.9			
	022	11.6			
	023	11.7			
	024	11.8			
	025	12.2			
	026	13.1			
	027	13.1			
def.	028	~~13.3~~ w.s.			
	029	t.p.			
	030	7.			
	031				
	032				

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1916phae.proj.10740

Monday July 2, 1917.

YELLOW

Scale R North Polar Sequence.

MC 8055

	g	h	
	pc 2	pc 2	
014	13.3	13.4	13.35 ± 0
015	13.4	13.4	13.40 00
016	m.s.	7.	
017			
018			
019			

1.45

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Monday August 17, 1917.

Requested

S Cancri. Estimates on C plates.

9:—

C 12150.

d's & var are in Image fogged part of pl. (poor imag. other C.S. is not.	Est	star im. are much fainter ~~where~~ in fogged part of pl.
24	8.3?	
29	8.3	
34	8.2	
39	8.2	
44	8.3	
49	8.2	

C 12606

99	9.8

C 12243

4	8.3
9	8.3
14	8.2
19	8.3
24	8.3

Images of var. poor.

C 12 ~~606~~ 469

only ft. trace 12499 2 star seen. Not certain Enough to estimate.	?

10.05

1916phae.proj.10740

Tuesday August 14, 1917

δ Cancri. Estimates on C plates cont.

10:25 C 13720

Im. ~~No~~	Est.
9	9.4: (in fogged Square at S End of pl.
19	8.2
24	8.2
29	8.3
34	8.2
39	8.1
44	8.2
49	8.2
54	8.2
59	8.2
64	8.2
69	8.2
74	8.2
79	8.2
84	8.2
89	8.1
94	8.1 ~~1.9~~

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1916phae.proj.10740

Tuesday August 14, 1917.

δ Cancri. Estimates on C plates cont.

11 15

C 13722.

	Im.	Est. Arg.		Est.	Mag's uncertain. large diff. between mags of cs.
	4	Images of c.s off plate.			
difficult to measure. Im. of var. better than Im. of c.s. Im. of c.s. d 4.0 v.f. c.s. d 4.0	8	d 3 v	v 8 e'	8.6 8.7	8.65 ? from
	13	d 4 v	v 5 e'	8.7 9.0	8.85
	18	d 3 v	v 6 e'	8.6 8.9	8.75
	23	d 4 v	v 6 e'	8.7 8.9	8.85
	28	d 3 v	v 7 e'	8.6 8.8	8.7
	33	d 3 v	v 6 e'	8.6 8.9	8.75
	38	d 4 v	v 6 e'	8.7 8.9	8.85
	43	d 3 v	~~v~~ 7 e'	8.6 8.8	8.7
	48	d 4 v	v 7 e'	8.7 8.8	8.75
	53	d 4 v	v 8 e'	8.7 8.7	8.7
	58	d 4 v	v 7 e'	8.7 8.8	8.75
	63	d 3 v ~~8.1~~	v 6 e'	8.4 8.9	~~8.80~~ 8.75
	68	d 4 v ~~8.7~~	v 7 e'	8.7 8.8	8.75
	73	d 4 v ~~8.8~~	v 6 e'	8.7 8.9	8.8
	78	d 3 v ~~8.8~~	v 6 e'	8.6 8.9	8.75
	83	d 4 v ~~8.8~~	v 5 e'	8.7 9.0	8.95
e' too faint	88	d 3 v ~~v 7 e' 8.4~~		~~8.6~~ 8.6 8.9 8.7 8.4	~~8.4~~ 8.75

C

C 10268

		Im.	Est.
71	9.8	111	9.6
81	9.7	116	9.5
86	9.6		
91	9.7		
96	9.6		
101	9.7		
106	9.7		

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Tuesday August 14, 1917.

C 10804

	Est.	
41	8.2	
46	8.1	
52	8.1	
57	8.2	
61	8.2?	(lower star of 5 the groups meas.
67	8.1	
72	8.2	
77	8.2	

C 10910

tailed 61	~~9.2~~ 9.1	

-1

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Wednesday August 15, 1917.

S. Cancri Estimates on C Plates.

8:30 *C 10911.

	Im	Est.		Est.
d⁴ distant & poor.	3	d 4 v	8.7	8.8
		v 2 d⁴	8.9	
	8	d 5 v	8.8	8.8
		v 2 d⁴	8.9	
	13	d 3 v	8.6	8.75
		v 2 d⁴	8.9	
	23	d 4 v	8.7	8.75
		v 3 d⁴	8.8	
	28	d 2 v	8.5	8.65
		v 3 d⁴	8.8	
	33	d 2 v	8.5	8.6
		v 4 d⁴	8.7	
	18	d 4 v	8.7	8.75
		v 3 d⁴	8.8	

* Argelander's method used above, owing to distance of C.S. from variable, and also on account of diff. in magns. of c.s. used.

C 10913

	8	8.0
↓	28	8.2
Im fogged circle	38	8.2'

C 11823.

bit star sup on Im.	4	superposed.
↓	14	8.6
	23	8.5

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1916phae.proj.10740

Wednesday August 15, 1917.

S Cancri. Estimates on C Plates.

C 11839.

Im.	Est.
74	9.6
84	9.5

C 11879

	59	10.1
Im. appears defective	64	def?
	69	9.9
Im. peculiar	74	10.2?
	79	< 10.1

C +9024 not for S Cancri.

13

C 10090

				Est ↓
86	d 5 r	v 4 e'?	8.8 9.1	8.9 5?
96	d 6 r	v 4 e'?	8.9 9.1	9.0 ?
106	d 7 r	v 5 e'?	9.0 9.0	9.0 ?

C.S. not comparable with var. on account of large differences in the magnitudes. C.S. d 4. could not be used, too near edge and poor. ~~Mag~~ Estimates uncertain,

1145

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1916phae.proj.10740

Wednesday August 22, 1917.

Estimates of W Delphini.

10—

C 10622

lm.	Est.			Est.
2	~~11.7~~ f' 3 v	12.19		12.13
	v 4 f²	12.07		

C 10374

lm 6	e 6 v	11.47		11.28
	v 3 f	11.10		

C 12184

2	12,5—			

C 12684

218	c 3 v	v 3 d	9.97	10.24	10.10
19	c 3 v	v 4 d	9.97	10.14	10.06
22	b 7 v	v 1 c	9.60	9.57	9.58
23	b 7 v	v 1 c	9.60	9.57	9.58

lm 8 var. poor.

C 13598

24	b 7 v	v 3 c	9.60	9.37	9.48

C 12030.

lm - of var. but ft. lm. 3 appears as if it might be sup or defect in film. All images appear fainter than c. s. b) It is dud only trace of b seen. ft im. of c. Stars not seen.

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1916phae.proj.10740

Wednesday August 22, 1917.

W Delphini - Est.

C 9024

Im	Est.
13	8.9

SW Cygni.

Im.	Plates.
2	~~12.9~~ 11.9
3	12.1
4	11.0
6	11.1
7	10.7
8	10.7
9	10.7

11 20

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1916phae.proj.10740

Thursday September 6. 1917.

Scale N. AC plates. H.S. Regions. 1. YELLOW

9:40- AM 12552 60m.

	sc.1	sc.2 B	C	C.
1	A	8.4	8.2	
2		8.8	8.5	
3		†	8.1	
4		8.1	8.5	
5		8.1	8.4	
6		8.1	8.8	
7		~~9.1~~	9.4	9.4
8		~~10.1~~	9.3	9.3
9		~~10.1~~	10.1	10.0
10			9.2	9.4
only ft. brace pairs. 11			†	†
12			ms.	ms.
13				ms.
14		†	8.9	88
15			ms.	ms.
16			ms.	ms.
17			ms.	ms.
18			ms.	
19			ms.	

~~AM 12554~~

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1916phae.proj.10740

Thursday September 6, 1917-

Solar ac plates. H. S. Regions F1- YELLOW

Am 12573 20m

	sc A	sc B	C.
1			9.5
2			9.7
3		7.	9.6
4			7.
5			7.
6			ns.
7			ns.
8			ns.
9			ns.
10			ns.

Am ~~10220~~ 12828 34m poor.

	sc A	B	C.
1		9	9
2		8.8	8.6
3		~~9.6~~	9.6
4		~~9.2~~	9.2
5		~~9.5~~	9.5
6			7
7			ns.
8			ns.
9			ns.
10			7.
11			ns.

10:05

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1916phae.proj.10740

Thursday September 6, 1917.

Scale n. * Am plates. N.S. Regions Fz YELLOW

10:70 Am 13069.

	sc.1	sc B	sc C	
1		7.1 6.9	6.4	6.4
2		7.7 7.4	6.8	6.8
3		8.2 8.1	7.6	7.6
4		6.9	6.5	
5		8.5	7.8	8.0
6		8.1	8.4	
7		8.6	8.3	
8			8.5	8.4
9			9.3	9.2
10			8.8	8.1
11			9.5	9.5
12			9.4	9.2
13		8.5	8.1	8.1
14			10.0	9.8
15			10.0	10.1
16			9.5	9.4
17			9.2	9.1
18			ms.	ms.
19			ms.	ms.
20			ms.	ms.
21			ms.	ms.
22				

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1916phae.proj.10740

Thursday September 6, 1917.

Scale 7 Axm plates N.S. Regions 1/2. YELLOW

a m. 12945

	sc.1	sc.2	sc.3
1	6.4	6.5	
2	7.6	7.1 6.7	
3	8.3	7.9	
4	7 6.3	6.8	
5	8.4	8.4	
6	8.8	8.7	
7	8.5	8.4	
8	8.7	8.6	
9		9.2	9.1
10	8.8	9.2	
11		9.5	9.5
12		9.5	9.4
13	8.4	8.1	
14		7.	7
15		7.	7.
16		9.4	9.4
17	9+	9.1	9.2
18		7.	7
19	9.7	9.7	9.7
20	m.s.	m.s	m.s.
21	7		7
22	m.s.		m.s
23	m.s.		

11:30

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Sheet 1

Tuesday September 11, 1917.

Scale ~~7m~~ n

to ~~9h5m~~ 9h30m

AC plates. H.S. Regions. A1 - YELLOW Copied 23:8

A~~M~~C - 1820

	sc1	sc2	sc	sc	Diff	Qu.	Magn
1		7.2	7.1	0	0.35	0.16	7.26
		7.6	7.0				
		7.1	7.1	6.8			
2		7.5	7.5	6.8	6.9	0.32	0.15	7.13
		6.3	6.35	1.0			
3		6.7		6.4	0.12	0.09	6.44
		7.0	6.85	2.1			
4		7.4		6.7			
		7.5	7.65	1.2	0.01	0.14	6.99
4a	7.7	7.9		7.8	0.07	0.19	7.84
5		8.7	8.50	1.1			
		8.8		8.6	0.30	0.14	8.64
		8.3	8.45	1.2			
6		8.7		8.6	0.27	0.15	8.60
		8.5	8.55	1.0			
7		8.9		8.6	0.19	0.13	8.68
7a				9.6	-0.71	-0.19	
8		8.5					9.41
		8.9	8.55	1.0	0.05	0.13	8.68
		8.2	8.40	2.2		0.15	8.55
9		8.6		8.6			
		8.3	8.50	2.2	0.22	0.15	8.66
9a		8.1		8.7	-0.45		
10		9.5	9.45	1.0			
				9.4	0.01	-0.12	9.33
			9.60	1.0			
11		9.4		9.1	9.6	-0.26	-0.18	9.42
				9.8	0.0		
12				9.8	9.8	0.24	-0.24	9.56
				9.7	0.0		
13				9.7	9.7	-0.38	-0.20	9.50
14				ms.	ms.	,	,	,
15		6.9		ms.	ms.	.	.	6.93
15a		7.3	6.80	1.1	6.7	-0.22	0.13	
16				7.	7.		,	,
17				ms.	ms.	,	,	,
18				ms.	ms.	,	,	,
19								
20								
21								
22								
23								
24								
25								
26								

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Shutter 1

Tuesday September 11, 1917.

Scale 7 AC plates U.S. Regions A1 - YELLOW Copied 23:8

Ac 14777

	pc.1	ScB	C	C	Diff	Cw.	
		6.4	6.35	0 1			
1		6.8	6.3		1.10	0.88	7.23
		6.6	6.7	6.52 1 2 0			
2		7.0	6.3	6.5	0.78	0.90	7.42
			5.65	1 0			
3		5.7 6.1	5.6		0.82	0.81	6.46
		6.1	6.2	5.98 1 2 3 1			
4		6.5	6.6 5.7	5.9	0.88	0.85	6.83
		7.8	7.70	1 1			
5		8.2	7.6		1.10	0.94	8.64
		7.6	7.70	1 1			
6		8.0	7.8		1.02	0.94	8.64
		7.5	7.9	7.60 1 1			
7		8.4	7.7		1.14	0.94	8.54
		7.1	7.45	3 4			
8		7.5	7.8		1.15	0.94	8.39
		7.8	7.80	0 0			
9		8.2	7.8		0.82	0.94	8.74
		8.4	8.55	2 1			
10		8.8	8.1		0.91	0.88	9.43
		8.4	8.50	1 1			
11		8.8	8.6		0.89	0.89	9.39
		8.6	8.85	2 3			
12		9.0	9.1		1.19	0.83	9.68
			8.75	2 3			
13			9.0	8.5	0.57	0.85	9.60
			9.65	1 0			
14			9.1	9.6	0.67	0.72	10.37
			9.55	2 1			
15			9.4	9.7	0.67	0.74	10.29
			9.20	1 1			
16			9.1	9.3	0.26	0.79	9.99
			10.00	0 0			
17			10.0	10.0	0.70	0.66	10.66
18			9.8	ft. 7.	1.08	0.70	10.50
19			ms.	ms.	,	,	,
20			ms.	ms.	,	,	,
4a		7.0	6.90	1 1			
		7.4	6.8		0.82	0.93	7.83
4b		6.2	6.20	0 0			
		6.6	6.2		0.38	0.87	7.07
7a		8.1	8.15	1 0			
		8.5	8.2		0.74	0.91	9.06
9a		7.7 8.1	7.70	0 0			
		7.4	7.7		0.35	0.94	8.64

1025

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Sheet 1

Tuesday September 11, 1917.

Scale 11 — ac plates. N.S. Regions. a 2. YELLOW Cofinal 23:14

ac 16207

	a	B	C.	Diff	Cu.	
	4.4	4.45	0 1			
1	4.6	4.5		2.29	2.04	6.49
	5.3	5.20	1 1			
2	5.7	5.1		1.56	1.69	6.89
	4.7	4.65	1 0			
3	5.1	4.6		1.87	1.95	6.60
	5.0	4.85	2 1			
4	5.4	4.7		.	1.86	6.71
	6.2	6.00	2 2			
5	6.6	5.8		1.42	1.46	7.46
	6.4	6.55	2 1			
6	6.8	6.7		1.57	1.50	8.00
	6.3	6.7 6.6	6.02 3 2 2 2			
7a	6.7	5.8	3.9	1.47	1.46	7.48
8a too near large defect	.	.		.	.	.
	7.3	7.50	2 2			
9	7.1	7.7		1.16	1.20	8.70
	7.5	7.60	1 1			
10	7.9	7.1		1.20	1.16	8.76
	8.3	8.35	1 0			
11	8.1	8.4		0.88	0.88	9.23
12		8.1		0.90	0.75	9.45
	8.3	8.30	0 0			
13	8.1	8.3		0.80	0.90	9.20
14		9.3		0.58	0.59	9.89
15		9.6	9.4	0.68	0.56	9.96
		9.55	0 1			
16		9.6	9.5	0.46	0.52	10.07
		9.30				
17		9.4	9.2	0.58	0.59	9.89
18		7.	7.	,	,	,
19		7.	7.	,	,	,
20		ns.	ns.	,	,	,
15a		9.9		0.52	,	,
21		ns.			,	,

7a — 6.9

too near defect 8b —

1916phae.proj.10740

Stub-

Tuesday September 11, 1917-

Scale in. ac plates H.S. Regions a2 YELLOW Copied 23.14

ac 17478

	sc.A	sc.B	sc.	C	Diff	Cu	
	5.5	5.55	1.0				
1	5.9	5.6			1.19	0.90	6.45
	6.4	6.2	6.06	42	1 3		
2	6.8	6.6	5.9	5.7	0.71	082	6.87
	5.5	5.9	5.50	0 0			
3	6.9		5.5		1.02	0.91	6.41
	5.9	5.75	1 2				
4	6.3		5.6		.	0.88	6.63
	7.1	6.90	2 2				
5	7.5		6.7		0.52	0.71	7.61
	7.3	7.25	1 0				
6	7.7		7.2		0.87	0.69	7.94
	7.0	6.90	1 1				
7a	7.4		6.8		0.59	0.71	7.61
	7.8	7.70	1 1				
8a	8.2		7.6		079	0.66	8.36
	7.8	7.85	0 1				
9	8.2		7.9		081	0.66	8.51
	8.3	8.30	0 0				
10	8.7		8.3		0.50	0.66	8.96
	8.4	8	8.50	1 1			
11	8.8		8.6		0.73	0.65	9.15
12	~~8.7~~		8.7		0.90	0.65	9.35
	8.6	8.65	0 1				
13	9.0		8.7		0.45	0.65	9.10
			9.05	2 1			
14			9.2	8.9	0.83	0.65	970
			9.40	1 1			
15			9.3	9.5	0.68	0.66	10.06
			9.35	0 1			
16			9.4	9.3	0.66	0.66	10.01
			9.40	0 0			
17			9.4	9.4	0.48 1.72	0.66	10.06
18			9.	9.9	~~9.~~	,	,
19			ms.	ms.	,	,	,
20			m.s.	m.s.	,		,
	7.7	7.75	1 0				
8b	8.1		9.8		1.01	0.66	8.41
					.	,	,
15a			+		,	,	,

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Shutter 2

Friday, September 11, 1917.

Copied 23:20

Scale 7 — AC plates. H.S. Regions A 3. YELLOW

AC 14382

	AC A	B	C	Diff	Cu.	
	68	665	2 1			
1	7.2		6.5		0.61	7.21
	6.3	6.35	1 0			
2	6.7		6.4	0.79	0.66	7.01
	7.2	7.15	0 1			
3	7.6		7.1	0.49	0.49	7.64
	6.3	6.20	1 1			
4	6.7		6.1	0.70	0.70	6.90
	5.6	5.55	0 1			
5	6.0		5.5	0.83	0.86	6.41
	7.9	7.85	1 0			
6	8.3		7.8	0.39	0.37	8.22
	8.2	8.25	0 1			
6a	8.6		8.3	0.12	0.33	8.58
	6.9	6.80	1 1			
7	7.3		6.7	0.43	0.55	7.35
	8.3	8.35	1 0			
8	8.1		8.4	0.47	0.33	8.68
	8.4	8.55	2 1			
9	8.8		8.7	0.41	0.32	8.87
	8.4	8.40	0 0			
10	8.8		8.4	0.50	0.34	8.74
	8.3	8.45	1 2			
11	8.7		8.6	0.48	0.33	8.78
		9.30	0 0			
12		9.3	9.3	0.09 6	0.30	9.60
		9.20	1 1			
13		9.1	9.3	0.08 8	0.30	9.50
		9.60	1 1			
14		9.7	9.5	0.18	0.30	9.90
		9.60	1 1			
15		9.7	9.5	0.29	0.30	9.90
		9.35	1 0			
16		9.3	9.4	0.31	0.30	9.65
		9.95	1 2			
17		10.1	9.8	0.41	0.31	10.26
18		7.	7.	.	,	,
19		ms.	ms	.	,	,
20		ms.	ms.	.	,	,
21		ms.	ms.	.	,	,

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Tuesday September 11, 1917.

Scale 7. Ac plates. st. s. Regions A 3. YELLOW Copied 23:20

Ac ~~14~~ 18935

	pcA	B	C		Cw.	
		7.0	6.85	2 1		
1		7.4	6.7	,	0.39	7.24
		6.8	6.70	1 1		
2		7.2	6.6	0.44	0.40	7.10
		7.9	7.20	1 1		
3		7.1	7.1	0.44	0.36	7.56
		6.6	6.60	0 0		
4		7.0	6.6	0.30	0.41	7.01
		5.9	5.80	1 1		
5	b	6.3	5.7	0.58	0.54	6.34
		7.1	7.75	1 0		
6		8.1	8.+	7.8 0.49	0.36	8.11
		8.0	8.10	1 1 2		
6a		8.4	8.+	0.27	0.36	8.46
		7.1	6.95	1 2		
7		7.5	6.8	0.28	0.37	7.32
		8.1	8.25	1 2		
8		8.5	8.4	0.57	0.38	8.63
		8.2	8.40	2 2		
9		8.6	8.6	0.56	0.40	8.80
		8.3	8.35	1 0		
10		8.7	8.4	0.55	0.39	8.74
		8.8	8.35	2 1		
11		8.6	8.5	0.58	0.39	8.74
			9.30	1 1		
12			9.2	9.4 0.09	0.46	9.76
			9.15	1 0		
13			9.1	9.2 0.11	0.45	9.60
			9.60	0 0		
14			9.6	9.6 0.11	0.51	10.11
			9.35	0 1		
15			9.4	9.3 0.54	0.48	9.83
			9.40	0 0		
16			9.4	9.4 0.26	0.48	9.88
			9.60	0 0		
17			9.6	9.6 0.76	0.51	10.11
18			ms.	ms. ,	,	,
19			ms.	ms. ,	,	,
20			ms.	,	,	,

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Shot 2

Thursday) September 13, 1917.

Scale 7m 11 55

Ac plates. N.S. Regions B1 - YELLOW Cepheid 23.26

Ac 14371

	ac B	ac C	ac D	Diff	Cu.	Magn
1	6.3 6.7	6.6	6.45	L2 1.02	1.03	7.48
2	6.4 6.8	6.4	6.40	00 1.00	1.03	7.43
3	5.3 5.7	5.4	5.35	L0 1.40	1.33	6.68
4	6.9 7.3	6.8	6.85	1 0.92	1.02	7.87
5	7.2 7.6	7.1	7.15	0 1.02	0.99	8.14
6	7.1 7.5	7.1	7.10	00 1.04	1.00	8.10
7	7.4 7.8	7.5	7.45	0 1 0.87	0.97	8.42
8	7.1 7.5	6.8	6.95	12 0.72	1.00	7.95
8a	7.7 8.1	7.7	7.70	00 0.99	0.95	8.65
9	7.8 8.2	7.8	7.80	00 1.05	0.95	8.75
10	8.1 8.5	8.1	8.10	00 1.39	0.94	9.04
11	7.3 7.7	7.4	7.35	L0 0.92	0.98	8.33
12	8.1 8.5	8.1	8.10	00 0.97	0.94	9.04
13	7.7 8.1	7.7	7.70	00 0.88	0.95	8.65
14	8.2 8.6	8.3	8.25	01 0.89	0.94	9.19
15	8.3 8.7	8.6	8.45	L2 0.95	0.94	9.39
16	9.50 00	9.5	9.5	0.84	0.98	10.48
17	9.20 11	9.3	9.1	0.60	0.96	10.16
17a	9.40 00	9.4	9.4	0.70	0.97	10.37
18	9.30 L1	9.2	9.4	1.40	0.96	10.26
19			9.7	1.07	0.99	10.69
20	10.00 00	10.0	10.0	0.78	1.03	11.03
21	9.25 21	9.4	9.1	0.54	0.96	10.21
22	〃	〃	〃		〃	〃
23	〃	〃	〃		〃	〃
23a	〃	〃	〃		〃	〃
24	〃	〃	〃		〃	〃
25	ns	ns	ns		〃	〃

very ft.

2 stars too close together

12 95 38

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3.26 1916phae.proj.10740

Sheet 3

Wednesday September 19, 1917.

Stetson 9 20 — ac plates — U. S. Regions — Bz — YELLOW — Copied 23:32

ac. 15631

	sc A	sc B	sc C.	Diff		
	6.3	6.20	1 1	099	091	
1	6.7		6.1		~~7.19~~	7.11
	7.0	6.80	2 2		089	
2	7.4		6.6	083	~~7.63~~	7.69
	7.2	7.15	0 1		091	
3	7.6		7.1	075	~~7.90~~	8.06
	7.0	6.85	2 1			
4	7.4		6.7	085	090	7.75
	7.3	7.35	1 0			
5	7.7		7.4	0,85	092	8.27
	7.1	7.60	1 1			
6	8.1		7.5	093	094	8.54
	6.9	6.70	2 2			
7	7.3		6.5	085	090	7.60
	7.8	7.65	2 1			
8	8.2		7.5	1.10	094	8.59
	7.8	7.80	0 0			
9	8.2		7.8	109	096	8.76
	7.9	8.05	1 2			
10	8.3		8.2	093	099	9.04
	7.4	7.50	1 1			
11	7.8		7.6	104	093	8.43
	8.4	8.40	0 0			
12	8.8		8.4	1.12	103	9.43
	8.3	8.25	1 0			
13	8.7		8.2	1.21	1.00	9.25
	8.3	8.40	1 1			
14	8.7		8.5	111	103	9.43
	8.5	8.80	3 3			
15	8.9		9.1	1.26	107	9.87
	8.1	8.25	1 2			
16	8.5		8.4	089	1.00	9.25
		9.30	1 1			
17	9.2		9.4	0.46	1.13	10.43
		9.45	1 0			
18	9.5		9.4	0.79	1.15	10.60
		9.70	0 0			
19	9.7		9.7	1.15	1.20	10.90
20	7.		7.	,	,	,
	9.8	9.85	0 1			
21	~~9.6~~	w.s.	99	128	1.23	11.08
22	7.		7.	,	,	,
		10.00	0 0			
23	10.0?		10.0?	048	1.25	11.25?
24	ms.		ms.	,	,	,
25	ms.		ms.	,	,	,
26	ms.		ms.	,	,	,

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Friday September 21, 1917.

Seaton 9—70

H. S. Regions. Ac plates B2. YELLOW Copied 23:32

Ac-18189.

	ac. B	ac. C	Diff		Cu	
1	6.4 6.8	6.3	6.35	0 1	0.84	1.00	7.35
2	6.8 7.2	6.5	6.65	2 1	098	0.96	7.61
3	7.0 7.4	6.6	6.80	2 2	1.10	0.95	7.75
4	6.9 7.3	6.6	6.75	1 2	0.95	0.95	7.70
5	7.3 7.1	7.1	7.20	1 1	1.00	0.91	8.11
6	7.6 8.0	7.6	7.60	0 0	0.93	0.86	8.46
7	7.0 7.4	6.7	6.85	2 1	0.70	0.94	7.79
8	8.0 8.4	7.9	7.95	0 1	0.80	0.81	8.76
9	8.0 8.4	7.9	7.95	0 1	0.94	0.81	8.76
10	8.3 8.1	8.4	8.35	1 0	0.63	0.75	9.10
11	7.8 8.2	~~7.9~~ 8.0	7.88	0 1	0.69	0.84	8.69
12	8.3 8.1	~~9.6~~ 8.7	8.50	2 2	1.02	0.73	9.23
13	8.4 8.8	8.6	8.50	1 1	0.96	0.73	9.23
14	8.2 8.6	8.6	8.40	2 2	1.11	0.74	9.14
15		9.35	0 1				
		9.4	9.3		0.71	0.53	9.88
16		8.80	1 1				
		8.7	8.9		0.34	0.67	9.47
17		~~8.7~~ ms.	9.4		0.36	0.52	9.92
18		9.70	0 0				
		9.1	9.7		0.54	0.44	10.14
19		〃	〃		〃	〃	
20		〃	〃		〃	〃	
21		ms.	ms.		〃	〃	
22		ms.	ms.		〃	〃	
23							
24							
25							
26							

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Sheet-3

Friday September 21, 1917.

Scale N. H.S. Regions. Ac plates B3. YELLOW Copied 23;38

Ac 15694

	ec	B	C	C.	Diff	Cu.	
1	4.3 4.7	B.			209	2.00	6.30
2	4.8 5.2	4.7	475	0 L	1.65	1.89	6.64
3	4.9 5.3	B.			220	1.85	7.10
4	6.0 6.4	5.7	585	2 L	1.50	1.86	7.71
5	5.1 5.5	5.2	515	L 0	1.47	1.80	6.95
6	6.4 6.8	6.1	625	2 L	1.55	1.60	7.85
7	6.8 7.2 6.9 7.3	6.4	6.6 6.68	1 2/3	1.38	1.5 45 X	8.18 3
7a	7.1 7.5 7.1 7.5	6.8	6.9 698	11 2 L	1.81	1.40	8.38
8	7.0 7.4	6.8	690	1 L	1.58	1.42	8.32
9	7.0 7.4	7.1	705	0 1	1.19	1.39	8.44
10	7.8 8.2	8.1 ~~7.6~~	795	2 1	1.51	1.23	9.18
11	7.7 8.1	7.9	780	L 1	1.34	1.25	9 8.05
12	7.8 8.2	7.8	780	0 0	1.18	1.25	9 8.05
13	8.2 8.6	8.5	835	2 1	0.95	1.18	9.53
14	8.3 8.7	8.4	835	L 0	1.15	1.18	9.53
15	8.5 8.9	8.4	845	1 0	1.22	1.17	9.62
16	8.5 8.9	8.4	845	1 0	0.95	1.17	9.62
17	c	9.1	900	1 L 8.9	1.29	1.14	10.14
18	8.3 8.7	8.4	835	L 0	1.02	1.18	9.53
19		9.2			1.03	1.13	10.33
20		m.s.			"	"	"
21		9.4			1.28	1.12	10.52
22		m.s.			"	"	"
22a		m.s.			"	"	"
23		m.s.			"	"	"
24		7			"	"	"
25		m.s.			"	"	"

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Scale N. 1 Ac plates. H.S. Regions. B3. YELLOW

Ac 15051

	Ac	AB	C	C	Diff	Cu 1.93	
1	40 4.4		B.		2.09		5.93
2	46 5.0		B		1.80	1.86	6.46
3	47 5.1	4.8	4.75	± 0	2.35	1.84	6.59
4	59 6.3	5.7	5.80	1 ±	1.55	1.70	7.35
5	50 5.4	5.2	5.10	± 1	1.52	1.80	6.90
6	63 6.7	6.2	6.25	1 0	1.55	1.64	7.89
7	66 7.0	6.5	6.55	0 ±	1.51	1.59	8.14
7a	73 7.7	7.4	7.35	± 0	1.44	1.43	8.78
8	70 7.4	6.8	6.90	1 ±	1.58	1.52	8.42
9	66 7.0	6.5	6.55	0 ±	1.69	1.59	8.14
10	78 8.2	8.1	7.95	2 ±	1.51	1.32	9.27
11	79 8.3	8.4	8.15	± 2	0.99	1.20	9.35
12	77 8.1	8.1	7.90	± 2	1.08	1.32	9.22
13	84 8.8	8.1	8.25	2 ±	1.05	1.28	9.53
14	83 8.7	8.5	8.40	± 1	1.10	1.26	9.66
15	82 8.6	8.3	8.25	0 1	1.42	1.28	9.53
16	83 8.7	8.4	8.35	± 0	1.05	1.26	9.40
17	‡	8.8			1.49	1.17	9.97
18	83 8.7	8.6	8.45	± 2	0.92	1.25	9.70
19		9.5			0.73	1.02	10.52
20		ns.			'	'	'
21		9.6			1.08	1.00	10.60
22		ns.			'	'	'
23		ns			'	'	'
24		ns			'	'	'

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Sheet 3

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Scale 7 Ac plates. H.S. Regions. B4. YELLOW

Ac. 15867

	Ac. B	C	C	Diff	Cu.	
1	6.1 6.5	5.9	600 1 1	1.31	1.16	16 7.8X
2	6.1 6.5	6.0	605 1 0	1.31	1.16	21 7.86
3	5.0 5.4	5.2	510 1 1	1.27	.	~~6.37~~
4	6.4 6.8	6.4	640 0 0	1.16	1.06	4 7.56
5	7.0 7.4	6.6	680 2 2	0.98	1.00	80 ~~7.78~~
6	6.3 6.7 6.1 6.5	5.8	5.9 602 3 1 2 1	1.06	1.16	7.18
7	7.1 7.5	7.0	705 1 0	1.26	0.94	7.99
~~7a~~					.	.
8	6.9 7.3	6.8	685 1 0	0.95	0.99	7.84
9	7.3 7.7	7.1	720 1 1	0.77	0.91	8.11
9a	7.4 7.8	7.7	755 2 1	0.70	0.83	8.38
10	8.3 8.7	8.3	830 0 0	0.83	0.77	9.07
11	8.6 9.0	8.7	865 0 1	0.61	0.76	9.41
12	8.1 8.5	8.5	830 2 2	0.80	0.77	9.07
13	8.0 8.4	8.1	806 1 00 8.1	0.72	0.79	885
14		9.1	9.10 00 9.1	0.64	0.75	9.85
15		9.0	905 0 1 9.1	0.77	0.75	9.80
16		9.3	9.46 1 0 9.4	0.73	0.78	10.21
17		9.5	960 1 1 9.7	0.68	0.77	10.37
18		9.4	945 0 1 9.5	0.56	0.76	10.21
19		9.4	9.50 1 1 9.6	0.90	0.76	10.26
19a		‡	‡			
20		ms.	ms.	.	.	.
21		ms.	ms.	.	.	.
22		ms.	ms.	.	.	.
23						
24						
25						

11:25

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Wednesday September 26, 1917.

Scale M. AC plates. H.S. Regions. B5. YELLOW Corrected 28.80

12:15 AC 15071 Exp 60m

	AC 1	AC 2	AC 3	Diff	Cu.	
	5.8					
1	5.6	5.8	5.80 00	0.76	0.80	6.60
	6.7					
2	6.5	6.8	6.75 10	0.77	0.70	7.45
			7.30 11			
3		7.4	7.2	0.80	0.70	8.00
			7.80 00			
4		7.8	7.8	0.71	0.68	8.48
			7.75 01			
5		7.8	7.7	0.68	0.68	8.43
			7.55 10			
6		7.5	7.6	0.55	0.69	8.24
			8.50 11			
7		8.4	8.6	0.68	0.72	9.22
			7.80 00			
8		7.8	7.8	0.65	0.68	8.48
			8.25 12			
9		8.1	8.4	0.73	0.69	8.94
			8.75 10			
10		8.7	8.8	0.77	0.75	9.50
10a		8.9		1.04	0.79	9.69
11		8.0	8.05 01	8.1 0.57	0.68	8.73
			8.90 11			
12		8.8	9.0	0.94	0.79	9.69
			9.50 00			
13		9.5	9.5	0.85	0.97	10.47
			9.40 poor			
14		9.4	9.4	1.09	0.94	10.34
14a		ns.	?	,	,	,
			9.45 01			
15		9.4	9.5	0.91	0.94	10.39
			9.55 01			
16		9.6	9.5	0.84	1.00	10.55
16a		?	?	,	,	,
17						
			9.60 00			
17a		9.6	9.6	0.68	1.02	10.62
			9.90			
18		9.9	9.9	poor 1.38	1.20	11.10
19		ns.	ns.	,	,	,
20		ns.	ns.	,	,	,
21						
22						

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Sheet 4

Wednesday September 26, 1917.

Scale N Ac plates. U.S. Regions. B5 YELLOW Coprid 23.50

Ac 15045

	scB	scC	scC.	Diff	Cu.	
1	5.3 (4.9)	4.9	490 00	1.67	1.77	6.67
2	6.4 (6.0 6.4)	5.6	582 22	1.70	1.56	7.38
3	6.9 (6.5)	6.7	660 11	1.50	1.36	7.96
4	7.6 (7.2)	7.1	715 01	1.36	1.24	8.39
5	7.6 (7.2)	7.3	7.25 01	1.18	1.21	8.36
6	7.4 (7.0)	6.8	690 11	1.20	1.30	8.20
7	8.3 (7.9)	8.1	800 11	1.18	1.04	9.04
8	7.7 (7.3 7.4)	6.8	7.1 705 30 2	1.40	1.26	8.31
9	8.3 (7.9)	7.7	780 11	1.18	1.09	8.89
10	8.7 (8.3)	8.4	836 10	1.17	0.98	9.33
10a		9.1	895 12 8.8	0.99	0.92	9.87
11	8.1 (7.7)	~~8.1~~	7.70 00 7.7	0.92	1.11	8.81
12		9.1	9.10 00 9.1	0.74	0.92	10.02
13		9.4	9.40 00 9.4	0.95	0.93	10.33
14		9.5	945 10 9.4	1.04	0.94	10.39
14a	~~15~~	9.7	9.75 10 9.8	1.09	1.05	10.80
15	~~16~~	9.6	9.55 01 9.5	0.81	0.95	10.50
16		9.6	9.50 11 9.4	0.89	0.94	10.44
16a		7.	f.	,	,	,
17a		9.5	945 10 9.4	0.83	0.94	10.39
18		9.8	990 11 10.0	1.38	1.13	11.03
19		ns.	ns.	,	,	,
20		ns.	ns.	,	,	,
21		ns.	ns.	,	,	,

1275

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Sheet 4

Friday September 28, 1917.

Scale M 1130 — Ac Plates — H. S. Regions. — B6 YELLOW Cofuid 23, 56

Ac 15074

	Ac 1	Ac 2	Ac.	Diff Ca.	Ca.	
1	5.6 (5.8)	5.7	575 01	1.26	1.11	6.86
2	5.3 (5.6)	5.5	550 00	1.17	1.12	6.62
3	5.4 (5.6)	5.6	560 00	1.10	1.10	6.70
4	4.7 (4.9)	4.7 (5.3 5.1)	505 1 1 31	0.90	1.10	6.15
5	6.2 (6.4)	6.4	640 00	0.99	1.01	6.41
6	6.6 (6.8)	6.9	685 01	0.90	0.89	7.74
7	dbl.			,	,	,
8			7.60 00			
	7.6	7.6		0.46	0.70	8.30
9			8.10 00			
	8.1	8.1		0.58	0.68	8.78
10			8.20 1 1 3			
	8.1	8.1		0.79	0.67	8.87
11			8.40 00 4			
	8.4	8.3		0.65	0.67	9.07
12			8.45 10			
	8.5	8.4		0.71	0.68	9.13
13			8.75 01			
	8.8	8.7		0.84	0.70	9.45
14			9.10 00			
	9.1	9.1		0.95	0.75	9.85
15			9.30 00			
	9.3	9.3		0.83	0.81	10.11
16			9.20 1 1			
	9.1	9.3		0.67	0.79	9.99
17			9.35 01			
	9.4	9.3		0.39	0.82	10.17
18			9.55 2 1			
	9.4	9.7		0.75	0.90	10.45
19			9.80 00			
	9.8 (non)	9.8 (non)		0.89	0.99	10.79
20			9.65 01			
	9.6	9.7 (non)		1.18	0.91	10.56
21	ms.	ms.		,	,	,
22	ms.	ms.		,	,	,
23	ms.			,	,	,
24	ms.			,	,	,

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Sheet 4

Friday September 28, 1917.

Scale N Ac plates Ot. S. Regions B6 YELLOW Copied 23:56

Ac 14684 (Plate not as good as prec. pl.)

	Ac 1	Ac 2			Cu.	
1	5.8 5.7	5.5	540	1 1 161	1.27	6.67
2	5.3 5.7	5.4	535	1 0 132	1.29	6.64
3	5.3 5.7	5.6	545	1 2 125	1.25	6.70
4	4.7 5.1	4.8	475	1 0 120	1.42	6.17
5	6.3 6.7	6.2	625	1 0 114	1.03	7.28
6	6.8 7.2	6.7	675	0 1 100	0.90	7.65
not to remeas. 7						
8	7.3 7.7	7.4	735	0 1 051	0.72	8.27
9	8.0 8.4	8.1	805	0 1 063	0.58	8.63
10	8.3 8.7	8.4	835	1 0 064	0.51	8.86
11		8.7	870 00	8.7 0.35	0.48	9.18
12		8.6	865 01	8.7 0.51	0.49	9.14
13		9.1	915 1 0	9.2 0.44	0.45	9.60
14		9.4	950 1 1	9.6 0.55	0.44	9.94
15		9.7	975 1 0	9.8 0.38	0.48	10.23
16		9.5	955 1 0	9.6 0.32	0.43	9.98
17		9.7	965 1 0	9.6 0.09	0.46	10.11
18		9.7	970 0 0	9.7 0.60	0.50	10.20
19		7.	7	,	,	,
20		10.0	995 0 1	9.9 0.88	0.56	10.51
21		ns	ns	.	,	.
22		ns	ns	.	,	.
23		ns.	ns.	.	,	.
24						
25						
26						

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Sheet 4

Friday September 28, 1917.

Scale M. Ac plates H. S. Regions. By YELLOW Cofried 23:62

Ac 14815

	Ac.1	Ac.2	Ac.3	Diff.	Cw.	
1	6.3 6.1	6.3	6.30 00	0.35	0.29	6.59
2	7.0 6.8	7.1	7.05 01	0.49	0.29	7.34
3	5.7 5.5	5.7	5.70 00	,	,	,
4		7.20 00 7.2	7.2	0.05	0.30	7.50
5	6.7 6.7	6.85 10 6.8		0.26	0.27	7.12
6		7.6	7.65 01 7.7	0.15	0.35	8.00
7		7.7	7.65 10 7.6	0.37	0.35	8.00
8	6.7 6.5	6.75 10	6.8	0.14	0.26	7.01
9		7.4	7.40 00 7.4	0.18	0.31	7.71
10		7.8	7.80 00 7.8	0.69	0.40	8.20
11		7.9	7.95 10 8.0	0.57	0.43	8.38
12		7.9	7.90 00 7.9	0.12	0.43	8.33
13		8.1	8.10 00 8.1	0.02	0.48	8.58
14		8.5	8.45 10 8.4	0.65	0.60	9.05
15		8.4	8.45 01 8.5	0.51	0.60	905
16		8.1	8.80 11 8.9	0.96	0.77	9.57
17		9.1	9.15 10 9.2	1.11	0.99	10.14
18		9.4	9.35 01 9.3	0.70	1.15	10.50
19		8.8	8.80 00 8.8	0.76	077	9.57
20		9.3	9.35 10 9.4	0.61	115	10.50
21		9.4	9.40 00 9.4	1.08	1.19	10.59
22		9.1	9.10 00 9.1	1.30	0.94	10.04
23		9.5	9.50 00 9.5	1.24	1.26	10.76
24		ns	ns	,	,	,
25		+	+	,	,	,
26		+	+	,	,	,
27		ns	ns	,	,	,

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Monday October 1, 1917.

Scale m. Ac Plates. H.S. Regions. B8 YELLOW Cofuid 23:68

10– Ac 14366

	sc.1	sc.2	sc.7	Diff	Cu.	
			7.45 10			
1		7.5	7.4	-.009	-0.06	7.39
			7.65 10			2
2		7.7	7.6	0.02	-0.03	7.68
			7.50 00			
3		7.5	7.5	-.009	-0.06	7.44
			8.15 10			
4		8.1	8.2	0.13	0.02	8.17
			8.15 12			
5		8.3	8.0	0.05	0.02	8.17
			7.90 11			
6		8.0	7.8	0.08	-.001	7.89
			8.70 00			
7		8.7	8.7	0.10	0.06	8.76
			8.80 00			
8		8.8	8.8	0.10	0.07	8.87
			8.60 11			
9		8.7	8.5	0.00	0.05	8.65
			8.70 11			
10		8.8	8.6	0.16	0.06	8.76
			9.30 00			
11		9.3	9.3	0.07	0.09	9.39
		9.5	9.45 10			
12		~~7.8~~ n.s.	9.4	-.003	0.10	9.55
			9.75 10			
13		9.7	9.8	-.007	0.09	9.84
			9.60 00			
14		9.6	9.6	0.20	0.09	9.69
			9.55 01			
15		9.6	9.5	0.27	0.09	9.64
			9.75 10			
16		9.7	9.8	0.14	0.09	9.84
17		n.s.	n.s.	,	,	,
18		n.s.	n.s.	,	,	,
19		n.s.	n.s.	,	,	,
20		n.s.	n.s.	,	,	,
21						
22						
23						
24						
25						

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158

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Monday October 1, 1917.

Scale N Ac Plates. H. S. Regions. B8. YELLOW Copied 23:68

Ac 14383

	Ac 1	Ac 2	Ac 2	Diff	Cu.	
	6.4	6.45	01			
1	6.8		6.5	0.91	0.87	7.32
	7.0	6.90	11			
2	6.4		6.8	0.77	0.81	7.71
	6.7	6.60	11			
3	7.1		6.5	0.81	0.85	7.45
	7.4	7.45	01			
4	7.8		7.5	0.83	0.73	8.18
	7.5	7.55	10			
5	7.89		7.6	0.65	0.71	8.26
	7.0	7.15	21			
6	7.4		7.3	0.83	0.78	7.93
	8.1	8.10	00			
7	8.5		8.1	0.70	0.63	8.73
	8.2	8.30	11			
8	8.6		8.4	0.60	0.60	8.90
	7.9	8.00	11			
9	8.3		8.1	0.60	0.64	8.64
	8.2	8.20	00			
10	8.6		8.2	0.66	0.61	8.81
		9.15	10			
11	9.1	9.1	9.2	0.22	0.41	9.56
		8.90	22			
12		8.7	9.1	0.52	0.47	9.37
		9.40	00			
13	9.4	9.4	9.4	0.28	0.36	9.76
		9.25	10			
14	9.3	9.3	9.2	0.55	0.41	9.66
		9.35	01			
15	9.3	9.4	9.3	0.47	0.38	9.73
		9.55	01			
16	9.6	9.6	9.5	0.34	0.33	9.88
		9.70	00			
17		9.1	9.7	0.76	0.30	10.00
18		†	†	,	,	,
19		ns	ns.	,	,	,
20		ns.		,	,	,
21						
22						
23						
24						
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26						

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Sheets

Tuesday
Monday October 2, 1916. Copied 23:74

Scale m. ac Plates. H.S. Regions. Bg. YELLOW
1030 ac 14360

		sc.1	sc.2	sc.3	Diff	Cw.	
	1	6.6	6.8	6.80 00	0.06	0.10	6.90
	2	6.6	6.7	6.75 01	0.18	0.10	6.85
	3	5.9	6.4	6.25 12	0.29	0.10	6.35
	4	6.8	6.9	7.00 00	-0.02	0.10	7.10
	5	6.8	7.2	7.10 11	0.18	0.10	7.20
	6		7.6	7.65 01 7.7	0.19	0.12	7.77
	7	6.5	6.5		-0.05	0.10	6.70
	8		8.0	8.15 21 8.3	0.39	0.17	8.32
	9		7.3	7.30 00 7.3	-0.11	0.11	7.41
	10		8.4	8.50 11 8.6	0.38	0.19	8.69
dbl.	11		.	.	,	,	,
	12		8.6	8.60 00 8.6	0.22	0.20	8.80
	13		8.9	8.90 00 8.9	0.52	0.23	9.13
	14		8.2	8.20 00 8.2	-0.16	0.17	8.37
	15		9.4	9.30 11 9.2	0.33	0.28	9.58
	16		9.4	9.40 00 9.4	0.24	0.29	9.69
	17		9.5	9.45 10 9.4	0.31	0.30	9.75
	18		9.6	9.65 01 9.7	0.37	0.32	9.97
	19		9.3	9.35 10 9.4	0.09	0.28	9.60
	20		9.7	9.70 00 9.7	0.33	0.32	10.02
	21		7	9.80 00 8	,	,	,
	22		98	98	0.10	0.34	10.14
	23		4.	4	,	,	,
	24		ms.	ms	,	,	,
	25		ms.	ms.	,	,	,

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Shull's

Tuesday October 2, 1917.

Scale ~~M~~ N Ac Plates H.S. Regions. C1. YELLOW Copied 23:80

Ac 17088

	pc.B	pc.$\overset{C}{x}$		Diff	Cw.	
1	6.2 6.6	5.8	600 22	1.17	1.05	7.05
2	6.1 6.5	5.8	595 12	1.28	1.07	7.02
3	4.9 5.3	5.2	505 12	1.23	1.25	6.30
4	6.4 6.8	6.4	6.4000	0.84	1.00	7.40
5	7.3 7.7	7.6	745 12	0.95	0.86	8.31
6	7.2 7.6	7.2	7.2000	0.92	0.89	8.09
7	6.5 6.9	6.4	645 10	0.81	1.00	7.45
12a	8.1 8.5	8.2	8.15 10	0.73	0.78	8.93
8	8.0 8.4	8.3	8.15 ± 1	0.84	0.78	8.93
9	7.6 8.0	7.7	765 01	0.99	0.83	8.48
10	7.9 8.3	~~8.3~~ 7.8	785 10	0.75	0.81	8.66
11	8.2 8.6	8.35 ~~8.6~~ 8.5		0.97	0.75	9.10
12		9.2	915 01 9.1	0.62	0.69	9.84
13	8.2 8.6	9.0	830 ± 1 8.4	0.58	0.76	9.06 3
13a		9.5	955 10 9.6	0.59	0.68	10.24
14		9.5	9.60 ± 9.7	0.60	0.68	10.28
15		9.8	9.80 00 9.8	0.83	0.68	10.48
16		f.	f.	,	.	.
17		f	f.	,	.	.
18		f.	ns?	,	.	.
19		ns.	ns.	,	.	.
20		f.		,	.	.
21		ns		,	.	.
22						
23						
24						
25						
26						

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Sheet 5

Tuesday October 2, 1917.

Scale V Ac Plates H. S. Regions C. I. YELLOW Copied 23:80

Ac 15661

	pc	S1	S2	Diff	Cu.	
1	6.2	6.3	6.30 00	0.87	0.83	7.18
2	6.4	6.3	6.40 1 1	0.83	0.84	7.24
3	5.5	5.5	5.55 0 1	0.73	0.74	6.29
4	6.3	6.6	6.50 1 1	0.74	0.86	7.36
5		7.4	7.40 00 7.4	1.00	1.03	8.43
6	6.8	6.8		1.27	0.92	7.77
7	6.5	6.6	6.60 00	0.66	0.88	7.48
7a		7.6	7.65 0 1 7.7	1.23	1.06	8.71
8		7.8		1.19	1.10	8.90
9		7.6		1.04	1.05	8.65
10		7.6	7.60 00 7.6	1.00 ~~0.95~~	1.05	8.65
11		8.2	8.20 00 8.2	1.12	1.19	9.39
12		8.4	8.50 1 1 8.6	1.27	1.25	9.75
13		7.8	7.80 00 7.8	1.08	1.10	8.90
13a		8.8		1.34	1.32	10.12
14		8.7	8.75 1 0 8.8	1.45	1.31	10.06
15		9.4	9.30 1 1 9.2	1.33	1.47	10.77
16		9.4	9.40 00 9.4	1.26	1.50	10.90
17		9.4	9.45 0 1 9.5	1.70	1.50	10.95
18		9.6	9.55 0 1 9.5	1.73	"	"
19		9.6	9.60 00 9.6	2.18	.	"
20		9.4	9.40 00 9.4	2.65	1.50	10.90
21		f.	f.	"	"	"
22		f.	f.	"	"	"
23		ns.	ns.	"	"	"
24						
25						
26						

Remeas. Jan 30, 18

9.6

9.8 4.6 very ff.!

Accidental error in measurement.

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Tuesday October 9, 1917.

~~Tue~~
9 30

Measures of plate 240 - in terms of plate of Pleiades Sequence. (for Mr. Campbell).

Mc 4188	Mc 4188
11.7	11.8
Mc 7812	Mc 9875
11.7	11.7
Mc 7669	Mc 9819
11.6	11.9
Mc 7558	Mc 7648
11.6	11.9
Mc 4045	
11.6	
Mc 4085	
& C.S. out of focus.	
Seq. north of centre of pl.	
Mc 4248	
11.6	
Mc 4993	
11.7	
Mc 7142	
11.7	

1005

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Wednesday October 10, 1917.

Reductions on sheets

Scale R. North Polar Sequence.

10 — Mc 7556

	sc.1	sc.2
1	B.	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12	B	
13	5.1	5.4
14	5.8	6.1
15	6.3	6.6
16	6.7	7.0
17	7.2	7.5
18	7.8	8.1
19	8.4	8.7
20	8.8	9.1
23		10.1
25		10.6
26		11.1
27		11.7
28		12.0
29		12.7

P.C.

sc.1	sc.2
B.	
ff.	
5.3	5.6
5.5	5.8
5.5	5.8
6.4	6.7
7.0	7.3
7.9	8.2
8.4	8.7
8.9	9.2
def.	
10.4	
10.8	
11.4	
11.7	
12.2	
sup.	
12.8	
13.3	
13.4	
ns.	

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Wednesday October 10, 1917.

Scale R Mouch Polar Sequence.

Mc 7556.

		sc.1	sc.2	Diff. Inv. sc.1	sc.2	sc.1	sc.2	Mean	Pc. sc.1	sc.2
	30		12.8							
	31		13.1							
	32		13.4							
	33		sup.	sup.						
	34		13.5	13.6				13.55 ±0		
	35		n.s.	n.s.						
	36		n.s.	n.s.						
	37									
2m	B.			B.	7.7	8.0		8.0 a	7.5	7.8
3m	B.			8.1	8.4	q		8.4 a	8.8	9.1
4m	B.			8.6	8.9	8.4	8.7	8.80 ±	8.8	9.1
5m	5.0	5.3		10.1		10.1		10.10 00		10.6
6m	5.6	5.9		10.8		10.7		10.75 0±		10.8
7m	6.0	6.3		11.1		11.1		11.10 00		11.6
8m	6.5	6.8		11.7		11.7		11.70 00		12.1
9m	7.6	7.9	B.	12.4		12.2		12.30 ±		12.4
10m	8.6	8.9	8.9 8.90 00	13.1		12.9		13.00 ±		def.
11m		9.3		13.1		13.2		13.15 ±0		n.s.
12m		10.4		14		13.7		13.7 a		ns.
+87	12 ~~15~~	B:		8.1	8.4	8.1	8.4	8.40 00		9.1
	15	B:		7.6	7.9	15	7.8	7.85 ±0	7.6	7.9
+88	2	B		8.4	8.7	8.3	8.6	8.65 ±0	8.5	8.8
	80	B:		8.7	9.0	q		9.0 a		9.5
	86	B		8.1	8.4	8.1	8.4	8.40 00	8.8	9.1
	115	B.		8.7	9.0	8.6	8.9	8.95 0±		9.5
	90	B.		q		q				10.4
87	105	B.		8.1	8.4	8.2	8.5	8.45 01	8.8	9.1

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Scale R. North Polar Sequence.

Mc 7556 — Diff. Im.

	g sc.1 sc.2	h sc.1 sc.2	Mean
1	B.	B	
2	|	|	
3			
4	B	B	
5	5.9 6.2	5.6 5.9	6.05 2 1
6	6.7 7.0	6.4 7.0	7.00 00
7 hazy.	B.	7.1 7.4	7.4 · a
8	7.5 7.8 (for 7.5)	7.9 8.2	8.00 2 2
9	8.6	8.7 9.0	8.80 2 2
10	9.5	9.3	9.40 2 2
11	10.4	× 10/9.4	10.40 00
12	10.4	10.2	10.30 1 1
13	10.8	10.8	10.80 00
14	11.4	11.4	11.40 00
15	11.6	11.7	11.65 01
16	11.8	11.9	11.85 01
17	12.3	12.1	12.20 1 1
18	12.6	12.6	12.60 00
19	13.1	12.6	12.85 3 2
20	13.4	13.2	13.30 1 1
23	13.6	13.6	13.60 00
25	f.	f.	
26	n.s.	n.s.	
27			
28			

× Meas. by W Oct. 19, 1917. Error of unit.

1150

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Wednesday October 10, 1917.

Scale R North Polar Sequence.

Mc 7556

			P.C.	
	sc.1	sc.2	sc.1	sc.2
4a	5.4	5.7	10.7	
5a	6.3	6.6	11.6.	
6a	6.4	6.7 B.	12.2	
7a	8.9?	9.2? 9.1 9.15?01	13.3	
8a		11.1	n.s.	
9a		11.5		
10a		12.1		
11a		11.9		
12a		11.8		
13a		12.3		
14a		12.6		
15a		13.1		
16a		13.8		
17a		sup-		
18a		n.s.		
014	5.8	6.1	11.3	
015	6.1	6.4	11.4	
017	7.3	7.6	12.4	
018	7.5	7.8.	12.6	
019	8.0	8.3 8.4 8.35±0	13.2	
020	8.5	8.8 8.9 8.85±01	13.2 3	
021		9.4	f.	
022		9.8.	n.s.	
023		9.8		
024		10.0		

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Wednesday October 10, 1917.

Scale R North Polar Sequences.

Mc 7556

Diff. Images.

	g sc.1	g sc.2	h sc.1	h sc.2	Mean
4R	10.6		10.5		10.55 01
5R	11.2		11.2		11.20 00
6R	11.6		11.2		11.40 22
7R	13.2		13.4		13.30 11
8R	~~13.9~~ ns.		~~13.2~~ ns.		
9R	ns.		ns.		
10R					
11R					
12R					
13R					
14R					
014	11.0		11.1		11.05 01
015	11.3		11.2		11.25 10
~~016~~					
017	12.3		12.2		12.25 10
018	12.2		12.2		12.20 00
019	12.6		12.6		12.60 00
020	13.1		12.9		13.00 11
021	13.2		13.3		13.25 01
022	13.5		13.5	13.3	13.43 11
023	13.2		13.4		13.30 11
024	13.4		13.5		13.45 01

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1916phae.proj.10740

Wednesday, October 10, 1917.

Scale R North Polar Sequence.

Mc 7556.

	10.7
025	10.4
026	11.2
027	11.3
028	11.4
029	11.8
030	12.1
031	12.1
032	12.7
033	~~12.6~~ 12.6
034	12.8
035	13.2
036	9f
037	13.4
faint. 038	13.9:
039	
~~010~~	
~~01~~	

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1910phae.proj.10740

Wednesday October 10, 1917.

Scale R. North Polar Sequence.

	Mc 7556	cont.	Diffr. Images
	as	as	
	g	h	
025	137	7	
026	ns.	ns.	

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1916phae.proj.10740

Sheet 6

Thursday October 11, 1917.

Scale-N Ac Plates for H.S. Regions. C3. YELLOW

9:20 Ac 15844

	pcB	B sc	C	C. Diff	Cum.	
		4.85 1.0				
1	4.9 5.3		4.8	1.83	1.79	6.64
2	4.9 5.3	4.90 00	4.9	1.74	1.75	6.65
3	4.9 5.3	4.90 00	4.9	1.70	1.75	6.65
4	6.2 6.6	6.15 0.1	6.1	1.51	1.35	7.50
5	6.3 6.7	6.20 1.1	6.1	1.75	1.35	7.55
6	6.6 7.0	6.50 1.1	6.4	1.50	1.26	7.76
7	7.0 7.4	6.85 2.1	6.7	1.27	1.16	8.01
8	6.5 6.9	6.48 1.0	6.4	1.24 0.01	1.29	7.74
9	~~6.9~~	7.7 7.70 00 8.1	7.1	0.98	1.00	8.00
10	7.0 7.4	6.85 2.1	6.7	1.03	1.16	8.01
11	7.0 7.4	6.90 1.1	6.8	1.09	1.15	8.05
12		8.1 8.5 8.10 00	8.1	0.78	1.12	9.22
13		8.2 8.6 8.30 1.1	8.4	0.84	1.07	9.37
14		8.4 8.8 8.55 2.1	8.7	1.08	1.02	9.57
15		8.4 8.8 8.75 4.3	9.1	1.03	0.98	9.73
16		†	8.1 8.5 8.60 1.1	0.88	1.01	9.61
17		†	8.6 8.6 8.60 00	0.64	1.01	9.61
18			9.4 9.4 9.40 00	0.69	0.87	10.27
19			9.3 9.4 9.38 1.0	0.78	0.88	10.23
20			9.4 9.4 9.40 00	0.74	0.87	10.27
21			† †	,	.	,
22			9.6 9.8 9.70 1.1	0.94	0.82	10.52
23			~~ns~~ ns	,	.	.
24		7.2 7.6	7.5 7.35 2.1	1.24	1.05	8.40
24			9.1 9.8 9.75 1.0	0.41	0.81	10.56
25			ns ns	.	,	,
26			ns ns		,	,

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1016phae.proj.10740

Shutter

Thursday October 11, 1917

Copied 23:98

Scale n Ac Plates. H.S. Regions. l64 YELLOW

ac15865

	B Sc.	C Sc	C	Diff	Cw.	
	5.4	5.50	1 1			
1	5.8		5.6	1.60	1.39	6.89
	6.3	6.25	10			
2	6.7		6.2	1.17	1.10	7.35
	6.1	6.20	1 1			
3	6.5		6.3	0.96	1.11	7.31
	6.2 6.1	6.08	10 ≥ 0			
4	6.6 6.5		5.9 6.1	1.04	1.16	7.24
	7.0 7.4 7.0	6.85	2 2 1 1			
4a	5.5 7.4		6.7 6.7	0.98	0.96	7.81
	7.4	7.55	≥ 1			
5	7.8		7.7	1.26	0.90	8.45
	6.7 6.8	6.60	12 ≥ 1			
6	7.1 7.2		6.4 6.5	0.80	1.01	7.61
	7.0	6.90	1 1			
7	7.4		6.8	1.05	0.95	7.85
	8.0	8.20	≥ 2			
8	8.4		8.4	0.98	0.86	9.06
	7.4	7.50	1 1			
9	7.8		7.6	0.87	0.90	8.40
9a	8.4 8.8	8.35	0 1 8.3	0.91	0.85	9.20
10		9.2	9.20 9.2	0.50	0.88	10.08
			9.25 0 1			
11		9.2	9.3	0.89	0.89	10.14
			8.85 1 0			
12		8.9	8.8	0.45	0.84	9.69
	8.3		8.45 1 2			
13	8.7	8.6	—	0.89	0.85	9.30
			9.50 1 1			
14		9.4	9.6	0.94	0.85	10.35
15		⁄	⁄	,	,	,
			9.55 1 0			
16		9.5	9.6	1.40	0.84	10.39
		10.00	10.00			
17		10.0	10.0 ? 1t	0.77	1.15	11.15
18		ns.	ns	,	,	,
19		ns	ns.	,	,	,
20						
21						
22						
23						

Dark day. Light unseen.

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Sheet 6

Thursday October 11, 1917.

Scale m Ac Plates H.S. Regions C4 – YELLOW Copied 23:98

Ac 17332

	Ac 1	Ac 2	Ac 2	Diff	Cu.	
	6.4	6.35 01				
1	6.2		6.3	0.75	0.69	7.04
2	6.8	6.60 ± 2				
	6.6		6.4	0.82	0.63	7.23
3	6.6	6.55 01				
	6.4		6.5	0.61	0.64	7.19
4	6.6	6.45 2 1				
	6.4		6.3	0.67	0.66	7.11
		7.40 1 1				
4a		7.5	7.3	0.43	0.53	7.93
		8.00 1 1				
5		8.1	7.9	0.81	0.56	8.56
6	6.9	7.00 1 1				
	6.7		7.1	0.40	0.56	7.56
		7.40 0 6				
7		7.4	7.4	0.55	0.53	7.93
		8.50 1 1				
8		8.4	8.6	0.68	0.68	9.18
		7.95 0 1				
9		8.0	7.9	0.42	0.55	8.50
		8.35 0 1				
9a		8.4	8.3	0.91	0.63	8.98
		9.10 0 0				
10		9.1	9.1	0.60	0.86	9.96
		9.20 1 1				
11		9.1	9.3	0.94	0.90	10.10
		8.70 1 1				
12		8.8	8.6	0.60	0.73	9.43
		8.75 0 1				
13		8.8	8.9	0.59	0.75	9.50
		9.45 1 0				
14		9.5	9.4	0.99	1.00	10.45
		9.55 0 1				
15		9.6	9.5	1.12	1.08	10.63
16		9.9	7.9	1.05	1.25	11.15
		9.45 1 0				
17		9.5	9.4	1.32	1.00	10.45
18		↓	↓	,	,	,
19		ns.	ns.	,	,	,
20		ns.	ns.	,	,	,

from.

10 45

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Saturday October 13, 1917.

Scale P Pleiades. 5 exps. Mc Cormick plates.

B 114

	sc.1	sc.2	sc.3
2	B		
7	B		
101		7.9	
24	3.9		
27	5.4		
102		9.1	
103		8.7	
104	4.5		
105			
106			
107		8.6	
108		8.7	
109	6.5		
110	2.8		
111			
112			
11			
113			
114			
115			
116			
117			
118			
119			
120			
14			

see next page.

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Saturday October 13, 1917.

Scale P. Pleiades – McCormick plates. "Curvature Corr."

9 30 B 114 See also p. 194. Distances, p. 195, 199

			Exp. 1 sc.1	Exp. 1 sc.2	Dist.	Exp. 3 sc.1	Exp. 3 sc.2	Exp. 2 sc.1	Exp. 2 sc.2
	2	121	B		-67 r	B	B B	ff	. .
	7	122	B		-67 r	B.	B. B	ff	. .
355 289	101	123		7.9	7.7 780 -60 r 44 r	8.0	8.0	ff	. .
	24	124	3.9	3.6	3.6 .44 r	4.6	4.3 4.25	3.8 3.5	B. 3.5
	27	125	5.4	5.1 5.3	5.20 -40 r	5.6	5.3 5.6 5.45	5.8	5.5 5.7 5.60
289 =	102	126		9.1	9.1 -34 r	9.1	9.1	n.s.	n.s.
281 =	103	127		8.9	9.1 9.00 -36 r	9.1	9.1	9.3	9.3
25 272 =	104	128	4.5	4.2	4.35 +25 r	4.7	4.6 4.35 4.2 4.4 4.35	4.2	3.9 4.1 4.00
25 X 4 =	105			5.4	5.4 -20 r	5.7	6.4 5.9 5.65	5.8	5.5 6.1 5.80
267 =		106		8.7	8.7 -22 r		9.1 9.1		7. 7
239 =		107		8.6	8.6 +8 r		8.8 8.8		8.7 8.7
241 =		108		8.7	8.7 +8 r		8.6 8.6		8.4 8.4
240 =		109	6.5	6.2 6.5	6.35 -22 r	6.8	6.5 6.8 6.65	6.9	6.6 6.9 6.75
209 =		110	2.8	2.5 B.	2.5 +7 r	B	B B	B.	B B
202 = bit.		111	3.4	3.1 B.	3.25 9 r	3.6	3.3 B. 3.3	3.6	3.3 B 3.3
212 =		112	B.	B.	B -6 r	B.	B. B	B	B B
		11	B.	B.	B +28	B.	B. B	B.	B. B
199 =		113		n.s.	n.s.		n.s. n.s.		7 7
196 =		114	4.6	4.3 4.4	4.35 +30 r	5.1	4.8 4 5.9 4.85	4.6	4.3 4.2 4.25
184 =		115		9.3 from	9.3 ? 9 -21 l		n.s. n.s.		9.5 9.5
192 =		116	2.8	2.5 B.	2.5 -28 l	3.4	3.1 B. 3.1	B.	B. B
187 =		117		8.5	8.5 -31 l		9.2 9.2		8.8 8.8
172 =		118		9.4 from	9.4 -37 l	B.	9.2 9.2		9.6 9.6
169 =		119	4.1	3.8 B.	3.8 -33 l	4.8	4.5 4.2 4.35	4.1	3.8 B. 3.8
159 =		120		8.3	8.3 37 l	3.6	3.3 7. 3.3 X		8.7 8.7
		14	B.	B.	B 47 l	B	B B	B.	B. B

cont on p. 176.

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Saturday October 13, 1917-

Scale P. Pleiades. Mc Cormick plates.

B 114

	Exp. 4 (5 7m exp.) sc.1	sc.2		Exp. 5 (4 7m exp.) sc.1	sc.2		Exp. 6 sc.1	sc.2	
2	off.	.	.	B	.			off.	.
7	off.	.	.	B.	.				.
101	off.	~~80~~	.		n.s.	.			.
24	~~40~~ off.	.	.	5.1 4.8	4.8	480			.
27	~~5~~ off.	.	.	6.4 6.1	6.6	6.35			.
102	off	~~9~~	.		n.s.	.			.
103	off	~~9~~	.		9.5	9.5			.
104	~~44~~ off.	.	.	5.3 5.0	4.9	4.95			.
105	~~5~~ off.	.	.	6.8 6.5	6.7	6.60			.
106	off.	~~9~~	.		7.	7		off.	.
107		~~8.8~~ 9.4 edge	9.4 e		9.5	9.5	9 5.8		9
108		~~8.6~~ 9.4 edge	9.4 e		7.	7		9.1	9.1
109	~~6.8~~	7.7	7.7		7.1	7.7		7.1	7.1
110	~~B~~ ~~4.1~~ B	B.	B	B.	B.	B	B		B
111	~~B~~ 4.4 4.1	4.1	~~4.25~~ 4.10	4.4 4.1	B	41	3.6 3.3		3.3
112	B	.	B	B.	B	B	B.		B
11	B.	.	B	B.	~~n.s.~~ B	B	B.		B
113		7.	7		n.s	n.s		7.	7
114	9	.	9	5.8 5.5	5.8	5.65	4.9 4.6		46
115		n.s.	n.s.	~~n.s.~~ 7.4 poor.				n.s.	n.s
116	3.6 ~~3.4~~ 3.3	B.	3.3	3.8 3.5	B.	3.85	3.1	2.8	2.8
117		n.s. ~~9.0~~	n.s.		7.			9.7	9.7
118	~~B~~ def.	def.	9		off			7.	7
119	5.4 ~~4.6~~ 5.1	5.5	5.30		9		4.4 4.1		4.1
120		9.4	9.4		off			8.6	8.6
14	B.				off		B		B

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Saturday October 13. 1917

Scale P Pleiades. Mc Cormick fl.

B 114

		Exp. 1 sc. 1	Exp. 1 sc. 2		Exp. 3 sc. 1	Exp. 3 sc. 2		Exp. 2 sc. 1	Exp. 2 sc. 2	
141=	121	B	B.	B	B	B.	B	B	.	B
143=	122	B.	B.	B	B.	B	B	B.	.	B
137=	123	6.6 6.3	6.5	6.40		7.6	7.6	6.6 6.4	6.6	6.50
131=	124		7.8	7.8	off	.			7.7	7.7
120=	125	B.	B.	B	off	.		B.	.	B
103=	126	5.9 5.6	5.6	5.60	off	.		5.9 5.6	5.9	5.75
91=	127	B.	B.	B	off	.		B.	B.	B
114=	128	6.6 6.3	6.6	6.45	off	.		6.6 6.3	6.6	6.46
86=	129		off	.	off	.			off	off
82=	130		off	.	off	.			n.s.	n.s.

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Saturday October 13, 1917.

Scale P Pleiades. McCormick ft.

B 114

	Eyp 5		Eyp 4	Eyp 6	
	sec 1	sec 2	sec 2	sec 2	
121	B	.	off	B	B
122	B	.		B.	B
123		7.6	7.6	6.6 6.3	6.3
124		8.6	8.6	7.8	7.8
125	3.5	3.2?	3.2?	B.	B
126	6.7	6.4	6.4	6.1 5.8 5.1	5.75
127	3.3	3.0	3.0	B.	B
128		7.4	7.4	6.6 6.3 6.6	6.45
129		7.5	7.5	6.8 6.5	6.5
130		ws.		off 8.8? fog.	

1185

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1916phae.proj.10740

First use of Scale A 21

Tuesday October 16, 1917.

Scale A G 1 (D 1 7583) 11:00

Pleiades. McCormick plates. for Curvature Corr.

B 1 1 6 (See Remark in margin, p. 190)

Corrections to scale are provisional Corrections on slide filed with papers relating to Constant Corrections & scales

	Expo. 2 / 3 = Expo. 3			Expo. 3 / 1 = Expo. 1			Expo. 4 / 2 = Expo. 2		
	Sc. 1	2	Sc. 3.	Sc. 1	Sc. 2	Sc. 3	Expo.	1	2
2	B		B	B		B	B		B
7	B.		B	B.		B	B.		B
101	n.s.		n.s.	n.s.		n	n.s.		n
24	6.3		6.3	5.7 5.8		5.8	5.7		5.8
27	8.1		8.1	8.1	8.2	8.15	8.1		8.1
102	n.s.		.	7.	n.s.	7	n.s.		n
103	7.		7	n.s.	n.s.	n	n.s.		n
104	6.6		6.6	6.6	6.8	6.70	6.6		6.6
105	8.1		8.1	8.4	8.4	8.40	8.2		8.2
106	n.s.		n.s	n.s.	n.s.	n	n.s.		n
107	n.s.		n.s	n.s.	n.s.	n	n.s.		n
108	n.s.		n.s	n.s.	n.s.	n	n.s.		n
109	8.7?		8.7?	9.2? 8.9? n.s.		9.05?	9.0		9.0
209 110	3.7 3.7		3.7	3.7 3.7		3.7	4.6 5.4 5.6		5.40
207 incov. 111	4.2? 5.2?	5.4	5.30	4.5 5.4 5.5	5.6	5.50	5.2 5.6		5.60
212 112	B	B.	B	B.		B	B		B
11	B.	B.	B	B.		B	B.		B
113	n.s.		n.s.	n.s.	n.s.	n	n.s.		n
114	7.2		7.2	7.2	7.5	7.35	7.5		7.5
115	n.s.		n.s.	n.s.	n.s.	n	n.s.		n
192 116	3.7	4.7 4.6	4.65	4.1 5.1	4.6	4.85	4.9 5.5	5.6	5.55
117	n.s.		n.s.	n.s.		n	n.s.		n
118	n.s.		n.s.	2.8 3.8	B.	B. 3.8	off		.
119	6.7 →	6.6 →	6.65	6.9	7.4	7.15	off		.
120	n.s.		n.s	n.s.	n.s.	n	off		.
14	3.7 3.7	B.	3.7	B.	B.	B	off		.

Assume 6.7 on sec. sc. and 6.6 on 3rd sc. O. Oct 24, '17

The expo are not numbered, plate meas. film up, no. at right, Expo. nearest R. Edge of plate [illegible]

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Tuesday October 16, 1917.

Iesde AG1 Pleiades. Mc Cormick plate. cont

B 116. 5 4
Exp. 4 5 = Exp. 5 4.

	sc. 1	sc 2	
2	B		B
7	B		B
101	~~B~~	n.s.	n
24	~~6.3~~	6.3	6.3
27		8.1	8.1
102		n.s.	n
103		n.s.	n
104		6.6	6.6
105		8.5	8.5
106		n.s.	n.s
107		9.5	9.5
108		n.s.	n.s
109		9.4	9.4
110	4 5.6 6.4	5.5	5.45
111	5.5 5.7	5.7	5.70
112	B.		B
11	B.		B
113		n.s.	n.s
114		7.4	7.4
115		n.s.	n.s
116	4.7 5.5	5.5	5.50
117		n.s.	n.s.
118		off.	.
119			.
120			.
14			.

called Exp. 1.

= Exp. 6
Exp 6 6 (at edge of pl.)

sc. 1	sc. 2	
B.		B
B		B
	n.s.	n
6.7? edge		6.7? e
8.5 poor		8.5 g
7.		7.
7.		7
7.1 fair		7.1 g
g		g
n.s.		n
n.s.		n
n.s. (emp?)		n
~~4.5~~	7.	7
4.5 5.4	5.4 5.5	5.4
	6.5	6.5
B.		B
	off.	.
	n.s.	n
	off.	.
	n.s	n
5.0 5.6	5.6	5.60
	n.s.	.
	off	.

Exp. 1 = Exp. 4 5

sc. 1	sc. 2	
		off
		off
		off
~~6.7~~		off
~~8.4~~		off
~~n.s.~~		off
~~n.s~~		off.
~~6.8~~		off
~~8.5~~		off
~~n.s.~~		off
		n.s.
		n.s.
~~9.3~~		t.p.
3.3 ~~4.3~~		B. 4.3
4.6 5.4	5.4	5.40
B.		B
B.		B
	n.s.	n
	7.0	7.0
	n.s.	n
3.9 ~~4.9~~	4.9 4.4	4.90
	n.s.	n
	party emp.	emp.
w.s. ~~4.6~~	6.6	6.6
	n.s.	n
B.		B

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Tuesday October 16, 1917.

Scale AG1. Pleiades. Mc Cormick plate for Curvature corr.

B116.

Expo. 3 = Expo. 2 ...

Expo. 2 = Expo. 1

Expo 1 = Expo. 2 ...

		sc.1	sc.2	sc.3	sc.1	sc.2	sc.3	sc.2
141	121	2.5 3.5 +8 ws.		3.5	2.7 3.7 B		3.7	off.
143	122	2.7 3.9		3.9	2.9 3.9 B.		3.9	
	123		8.7	8.7		8.9 8.8 8.85		
	124		ws.	n		ws. ws. n		
	125	2.7 3.7		3.7	off.			
	126		8.4	8.4				
	127	3.8 4.8		4.8				
	128		7.	7				
	129		7.	7				
Edge.	130		ws.	n	off.			off.

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Tuesday October 16, 1917.

Scale AG1. Pleiades. Mc Cormick plate for Curvature corr.

B 116.

	Expo. 3 + 2 = Expo. 5	Expo. 6	Expo. 1 = Expo. 4
	sec 2	sec 2	sec 1 sec 2
121	ff.	ff	3.6 B. 3.6
122			3.8 B. 3.8
123			7. 7
124			ns. n.
125			3.8 B. 3.8
126			8.4 8.4
127			4.5 B. 4.5
128			
129			ns. n
130	ff.	ff.	ns. n

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Tuesday October 16, 1917.

Pleiades. Mc Cormick plates.

B 116. Distances of each star (on each expl.) from centre.

(See Remark on margin, page 190)

Directions O.K. Aug. 1920		Expl. 1 = Expl. 4	Expl. 2 = Expl. 3	Expl. 3 = Expl. 1
	2	off	.	96 r
	7	.	.	+78 r
365 =	101	.	.	.
	24	.	+85 r	+56 r
	27	.	78 r	−41 r
289	102	.	.	.
281	103	.	.	.
25	104	.	+66 r	+36 r
254	105	.	60 r	+30 r
267	106	.	.	.
239	107	.	+49 r	.
241	108	.	.	.
240 9	109	.	−50 r	−26 r
202	110	61 r	+35 r	+12
202	111	59 r	+33 r	+9
212	112	62 r	+35 r	+9
	11	+74 r	+53 r	+38 r
199	113	.	.	.
196	114	+60 r	+43 r	+35
184	115	.	.	.
192	116	−56 r	−28 r	−15 l
187	117	.		.
172	118	.	.	.
169	119	38 r	+8 r	24 l
159	120	.	.	.
	14	+35 r	+29	+45 l

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Tuesday October 16, 1917.

Pleiades. Mc Cormick plate.

D 116.

Distances from centre.

		= Exp. 2 Exp. 4	= Exp. 5 Exp. 5	= Exp. 6 Exp. 6.
	2	+45 r	-13 r	+32 r
	7	+48 r	+8 r	+46 r
355	101	.	.	.
	24	+30 r	+21 l	+56 l
	27	-18 r	-26 l	+38 l
289	102	.	.	.
281	103	.	.	.
	104	+17 r	+36 l	+59 l
254	105	+5 l	40 l	+57 l
267	106	.	.	.
239	107	54 l	.	.
241	108	.	.	+70 l
240	109	-18 l	-56 l	+57 l
209	110	+31 l	67 l	+81 l
202	111	+31 l	69 l	+82 l
212	112	+28 l	67 l	+78 l
	11	+43 l	+67 l	off
199	113	.	.	.
196	114	+50 l	+78 l	off.
184	115	.	.	.
192	116	-40 l	-69 l	+80 l
187	117	.	.	off.
172	118	-55 l	off	.
169	119	+55 l	.	.
159	120	+59 l	.	.
	14	+70 l	.	.

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Tuesday October 16, 1917.

Pleiades. McCormick plates. Distances from centre.

B116

		Expo. 1 = Expo. 4	Expo. 2 = Expo. 3	Expo. 3 = Expo. 1
141	121	+22r	+22l	+46l
143	122	+23r	+20l	+44l
137	123	−18r	−15l	−44l
131	124	.	.	.
120	125	−16r	−26l	−55l
103	126	−11l	35l	65l
91	127	−21l	−44l	−74l
114	128	+16	+37l	+64l?
86	129	+20l	−48l	+78l
82	130	.	.	.

Half no.			
91	−21l	−40l	72l
5	−40r	−24	−43l
207	−71r	−43r	−30
217	−76r	−47r	−31r
272	90r	62r	33r
277	.	+73r	+46r
260	.	+80r	+56r
301	.	+87r	+60r
328	.	.	+70r
333	.	.	67r
356	.	.	82r

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Tuesday October 16, 1917.

Pleiades. McCormick plates. Distances from centre.

B 116 -

	Exp. 4 = Exp. 2	Exp 5 = Exp. 5	Exp 6 = Exp. 6
121	+74l	off.	off.
122	+73l	.	.
123	75l	.	.
124	.	.	.
125	86l	.	.
126	off	.	.
127	.	.	.
128	.	.	.
129	.	.	.
130	off.	off.	off.

Nf no.			
91.	.	.	.
5	-70l	.	.
207	-40l	-88l	70l
217	-37l	-84l	65l
272	3r	6γl	+50l
277	+30	+40l	+71l
280	+43	+47l	.
301	+40r	+33l	.
328	+46r	+27l	.
333	+37r	+5l	+43
356	+53r	+20r	+60

205

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Wednesday October 17, 1917.

Scale P — Plerides. Mc Cormick plates. — Curvature Corr.

2 —

B 115

Exp. 1 (at intervals of 4) = Exp. 4 (5)

Exp. 2 = Exp. 3 (3)

Exp. 3 (1) = Exp. 1

	Exp. 1 sc. 1	Exp. 1 sc. 2	Exp. 4	Exp. 2 sc. 1	Exp. 2 sc. 2	Exp. 3 sc. 1	Exp. 3 sc. 2
See Remark	2	off.	.	off	.	B	B
Page 190.	7	.	.	.	.	B	B
	101	.	.	.	.	n.s.	n.s.
	24	.	.	6.1 58	5.8	5.7 5.4	5.4
	37	.	.	7.6	7.6	7.3	7.3
	102	.	.	n.s.	ns	n.s.	n.s.
	103	.	.	n.s.	ns	n.s.	n.s.
	104	.	.	5.9 5.6	5.6	5.8 5.5	5.5
	105	.	.	7.6	7.6	7.5	7.5
	106	.	.	n.s.	ns	n.s.	n.s.
	107	n.s.	n.s.	9.4?	9.4?	n.s.	n.s.
	108	Rup?	9	n.s.	ns	n.s.	n.s.
	109	8.6	8.6	8.7	8.7	8.4	8.4
	110	3.8 4.0 3.9 3.6	3.6	3.3 3.4	3.4	B.	B
	111	5 4 4 4.1 3.8	3.8	4.8 4.5	4.5	4.7 4.4	4.4
	112	B	B	B.	B	B.	B
	11	B	B	B.	B	B.	B
	113	n.s.	ns	n.s.	ns	n.s.	n.s.
	114	6.4 6.1	6.1	6.3 6.0	6.0	6.5 6.2	6.2
	115	n.s.	ns	n.s.	n.s.	n.s.	n.s.
	116	4.1 3.8	3.8	4.1 3.8	3.8	4.1 3.8	3.8
	117	n.s.	ns	n.s.	ns.	n.s.	ns.
	118	n.s.	ns	n.s.	n.s.	n.s.	n.s.
	119	5.8 5.5	5.5	5.8 5.5	5.5	5.9 5.6	5.6
	120	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
	14	B.	B	B.	B	B.	B

Scale P is not comparable with Pl plates but it is better than any other Scale cut from print

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Wednesday October 17, 1917.

Scale P Pleiades. McCormick plates.

B 115 cont-

	Expl. 4 = Expl. 2 B..		Expl. 5 = Expl. 1		Expl 6 (at n. of fil.)	
	sc. 1	sc. 2	sc. 1	sc. 2	sc. 1	sc. 2
2	B.	B	B	B	B.	B
7	B	B	B.	B	B.	B
101	ns.	ns.	ns.	ns.	ns.	ns.
24	5.4 5.1	5.1	5.6 5.3	5.3	5.6 5.4	5.4
27	7.1	7.1	7.4	7.4	7.4 7.2	7.2
102	7.	7	ns.	ns.	ns.	ns.
103	ns.	ns.	ns.	ns.	ns.	ns.
104	5.9 5.6	5.6	5.9 5.6	5.6	6.1 5.8	5.8
105	7.5	7.5	scr.	9	7.6	7.6
106	ns.	ns.	ns.	ns.	ns.	ns.
107	ns.	ns.	ns.	ns.	ns.	ns.
108	ns.	ns.	ns.	ns.	ns.	ns.
109	8.7	8.7	8.7	8.7	8.7	8.7
110	9	9	B.	B	4.3 4.0	4.0
111	9	9	5.3 5.0	5.0	5.1 4.8	4.8
112	7.1?	7.1	B.	B	B.	B
11	B	B	B.	B	off	#
113	ns.	ns.	ns.	ns.	ns.	ns.
114	6.5 6.2	6.2	6.8 6.5	6.5	off	#
115	ns.	ns.	ns.	ns.	ns.	ns.
116	4.6 4.3	4.3	4.6 4.5	4.5	4.4 4.1	4.1
117	ns.	ns.	off		off	
118	~~26~~	ns. ns.				
119	6.1 5.8	58				
120	ns.	ns.				
14	B	B				

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Wednesday October 17. 1917.

Scale P. Pleiades. Mc Cormick plates.

B 115. cont.

	Expl 1 = Expl 4		Expl 2 = Expl 3		Expl 3 = Expl 1	
	sc.1	sc.2	sc.1	sc.2	sc.1	sc.2
121	3.4?	3.1	B.	B	B.	B
122	3.6	3.3	3.6	3.3	3.5	3.2
123	8.1	8.1	8.2	8.2	8.6	8.6
124	9.1	9.1	7	7	7	7
125	B.		B	B	3.6?	3.8?
126	7.6	7.6	7.6	7.6	7.8	7.8
127	3.6	3.3	3.5	3.2	B.	B
128	8.1	8.1	8.1	8.1	8.6	8.6
129	8.3	8.3	8.5	8.5	9.1	9.1
130	n.s.		n.s.		n.s.	n.s.

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Wednesday October 17, 1917.

Scale P. Pleiades. Mc Cormick plate.

B 115. cont.

	Exp 4 = Exp. 2		Exp. 5 = Exp. 3		Exp. 6 = Exp. 6	
	sc. 1	sc. 2	sc. 1	sc. 2	sc. 1	sc. 2
121	B.	B	off.	.	off.	.
122	3.7 3.4	3.4	.	.	.	.
123	8.7	8.7	.	.	.	.
124	ns.	n.s.	.	.	.	.
125	off.	.	.	.	.	.
126	.	.	.	.	.	.
127	.	.	.	.	.	.
128	.	.	.	.	.	.
129	.	.	.	.	.	.
130	off.	.	off.	.	off.	.

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Wednesday October 17, 1917.

Pleiades. McCormick plates. Distances from centre.

Directions O.K. B 115. = Exp. 4 = Exp. 1 = Exp. 2 = Exp. 5 = Exp. 6

Aug. 1920 → Exp. 3 + Exp. 3 → Exp. 4

Exposures numbered with ink correspond to order of exposure, assuming that it was the same as on Plate 114.

		Exp. 3	Exp. 4	Exp. 5	Exp. 6
2	off.	off.	−75 r	−45 r	−9 l	+30 r
7	.	.	+76 r	+46 r	+7 l	+44 r
101	.	.	.	.	.	.
24	+83 r	.	+53 r	+16 r	+29 l	+54 l
27	−77 r	.	−47 r	−18 r	−32 l	+37 l
289 102	.	.	~~−9 r~~	.	.	.
281 103	.	.	.	.	.	.
25 104	+64 r	.	+34 r ~~29 r~~	+8 r	+44 l	+57 l
254 105	59 r	.	29 r	2 l	49 l	+55 l
267 106	.	off.	.	.	.	.
239 107	+47 r	.	.	.	.	.
241 108	.	.	.	.	.	.
240 109	−50 r	77 r	−24 r	−22 l	−64 l	+ +58 l ✕
209 110	+33 r	61 r	+6 r	+30 l	75 l	+ +80 l ✕
202 111	+31 r	59 r	+5	31 l	77 l	+ +81 l ✕
212 112	34 r	62 r	+4 r	28 l	74 l	+ +77 l ✕
11	+49 r	+74 r	+32 r	+40 l	+76 l	off.
199 113	.	.	.	.	.	.
196 114	+38 r	+62 r	+29 l	+46 l	+86 l	off.
184 115	.	.	.	.	off.	.
192 116	−31 r	−55 r	−21 l	−42 l	−87 l	+ +80 l ✕
187 117	.	.	.	.	.	.
172 118	.	.	.	.	off.	.
169 119	4 r	35 r	25 l	55 l		.
159 120	.	.	.	.		.
14	+25	+39 r	+42 l	+68 l		.
141 121	+18 l	+24 r	+44 l	+74 l		.

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Wednesday October 17, 1917.

Pleiades. Mc Cormick plate. Distance from centre.

B 115

		Exp. 3 = Exp. 3	Exp. 4 = Exp. 4	Exp 1 = Exp. 1	Exp 2 = Exp. 2	Exp. 5 = Exp. 5	Exp 6 = Exp. 6
143	122	+16 l	+24 r	+43 l	+72 l	off.	off.
137	123	-17 l	-17 r	-46 l	-76 l		.
131	124	.	-16 l	.	off.		.
120	125	-29 l	-13 r	-57 l	off.		.
103	126	37 l	-10 l	67 l	.		.
91	127	-44 l	-18 l	-74 l	.		
114	128	+35 l	+19	+64 l	.		
86	129	48 l	+22 l	78 l	.		
82	130	..	.	.		off.	off.

	~~B116~~ (3)	(4)	(1)	(2)	(5)	(6)
91	~~-38 l~~ -43 l	~~-17 l~~ -22 l	~~-67 l~~ -72 l	.	,	.
5	~~-24~~ -29	~~-32 r~~ -37 r	~~-41 l~~ -46 l	.	.	.
207	~~-43 r~~ -38 r	~~-67 r~~ -62 r	~~-28 -33~~	-43 l	-77 l	70 l
217	~~-45 r~~ -40 r	~~-73 r~~ -68 r	~~-29 r -34~~	-40 l	-73 l	65 l
242	~~62 r~~ 65 r	90 l	~~31 33 r~~ 33 r	-6 r	-38 l	50 l
277	~~+75 r~~ +71 r	.	~~+44 r~~ +42 r	+25	+38 l	71 l
280	~~+82 r~~ +79 r	.	~~+52 r~~ +52 r	+39	+47 l	.
301		.	~~+58 r~~ +57 r	+36	+33 l	.
328		.	~~+68 r~~ +68 r	+42 r	+27 l	.
323		.	~~+65 r~~ 67 r	+36 r	+5 l	+43
356		.	~~80 r~~ 80 r	+51 r	+21 r	+60
12	Use distances for No. 280					

4-10

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Monday October 22. 1917.

~~State~~
1—

Region near Scut. Sct. Star 250a - Estimate of brightness on Mc 8304, 8601, 6252, 8302.

See also P. 217.

Mc 5694. (Blue)
11.0 ~~9.8~~ ~~9.7~~ w. magno.

Mc 8304 (Blue).
11.0 ~~9.8~~

Mc 6252 (yellow)
10.9

Mc 8302 (yellow)
11.0

Mc 8601 (blue)
11.1

15

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Tuesday October 23. 1917.

Scale Y — Mc Cormick pl. for Curvature Corr.

10 — B 114

See also p. 174.

	Exp 1			Exp 2			Exp 3		
	sc 1	sc 2	sc 3	sc 1	sc 2	3.	sc 1	sc 2	sc 3
2	B			B	B	B	ff		
1	B.			B	B.	B	ff		
24	1.1			1.1	1.5	1.5	1.7		1.7
101	.			.	9.5	9.5 9.5	ff.		.
27	4.1	4.2	.	4.15	4.7	4.7	4.6		4.6
102			9.7	9.7		7. 7		7.	7
103			9.4	9.4		def? .	.	9.7 9.7	9.7
104	1.6	.	.	1.6	2.3	. 2.3	1.7		1.7
105	4.4	4.4	.	4.40	4.7	4.7 4.70	4.8		4.8
106			9.3	9.3		9.9 9.9		n.s.	.
107			8.7	8.7		9 .		9.1	9.1
108	5.8 ws.		8.7	8.7		. 9.2 9.2		9.4	9.4
109	5.8	5.8		5.80		6.5 6.2 6.3	6.6	6.2	6.40
110	B	.		B	B	. .	B. B		B
111	B	.		B	B	. .	B.		B
112	B.	.		B	B.	. .	B.	.	B
11	B.	.		B	B	. .	B.	.	B
113		.	n.s.	.		. 7. 7.		7.	7
114	2.5	.		2.5	3.2	. 3.2	2.1		2.1
115		.	7.	7		. 7. 7		10.4? ff	10.4?
116	B.	.		B	B.	. B	B		
117		.	8.8	8.8		. 9.7 9.7		9	.
118		.	7.	7		. n.s.		10.9? ff	10.9?
119	1.8	.		1.8	2.2	. 2.2	1.5		1.5
120			8 7.8	8.8		. 9.4 9.4		8.8	8.8
14	B.	.		B	B	.	B.		
121	B.			B	B	.	B.		

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Tuesday, October 23, 1917.

Scale 4 McCormick pl. for curvature corr.

B 114. ~~Exp. 7~~ m

	Exp. ~~4~~ 5			~~Exp. 7~~ Exp. 5 — 4		Exp. 6.	
	sc. 1	sc. 2	sc. 3	sc. 1	sc. 2 – sc. 3	sc. 1	sc. 2 – sc. 3
2	off		.	B	B	off	.
7			.	B.	B		.
101			.	.	. ns.		.
24 27 to			.	~~32~~ 29 def?	29		.
102			.		ns.		.
103			.		7. 7		.
104			.	36	. 36		.
105			.	9	5.7 . 6.9		.
106	off.				7. 7	off	.
107			10.5 10.5		9.5 9.5	ns.	ns. .
108			10.7 10.7		ns. .		ns. .
109		8.2 7.9	8.1 8.00		8.1 7.8 7.9 7.85		ns. .
110	1.7?		1.7?	B.	. B	B.	.
111	1.9?		1.9?	1.5	. 1.5	3.3	3.3
112	B.		B	B.	. B	B.	B
11	B.		B	B.	. B	B.	B
113			ns. .	.	. ns. .		ns. .
114		4.7?	~~4.7~~ 4.7?	4.7	4.7 4.70	5.7?	5.7?
115			ns. .	.	. ns. .		ns. .
116	1.3		1.3	B.	. B		off .
117			ns. .		ns. .		off .
118			def. .		off .		edge .
119	3.7		3.7		.	5.5	5.5
120			10.0 10.0		.		7. .
14	B.		B		.	B	.
121	B		B		.	B	.

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Tuesday October 23, 1917.

Scale y McCormick pl. For Curvature Corr.
B 114. cont.

	Exp. 1				Exp. 3				Exp. 2			
~~121~~	sc. 1	sc. 2	sc. 3		sc. 1	2	3		~~B~~			
122	B.	.	.	B	B	.	.	B	B.	.	.	,
123	7.	5.9	.	5.9	7.6 7.4	7.4	7.40			6.4	.	64
124	.	8.4	8.1 8.3	8.20	off.	.	.			8.4	8.1 8.1	8.10
125	B.	.		B					B.	.	.	B
126	~~4.8~~	4.8		4.8					4.6	4.7	.	4.65
127	B.	.	.	B					B.	.	.	B
128	7	6.2	B	6.2					.	6.1	B.	6.1
on extreme edge 129	.	.	.	.					.	6.6	6.1	6.35
130	.	off	.		off.				.	.	9.3	9.3

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Tuesday October 23, 1917.

Scaley Mc Cormick pl.

B 114-

	Expo 5				Exp 4		Exp. 6		
	sc.1	sc.2	sc.3		sc.1	sc.3	sc.1	sc.2	sc.3
121	B.			B	off.		B		
122	B			B			B		
123		7.6	7.4 7.5	7.45					
124		7.	8.9	8.9				ns	
125	B.			B				n.s.	
126		6.2	B.	6.2			8.1	7.8 7.6	7.70
127	B.			B				n.s.	
128		7.5	7.4 7.4	7.40			7	8.1	8.1
129		7.7	7.6 7.7	7.60			7.	8.6	8.6
130		n.s.	n.s.		off.			n.s.	

11 45

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Tuesday October 3, 1917.

Declinations D. K. Mc Cormick plates. Distances of each star fr. center.
Aug. 1920 B 114.

		Exp. 1	Exp. 3	Exp. 2	Exp. 5	Exp. 4	(Corner) Exp 6.
	2	-67r	-37r	off.	off.	-13r	off.
	1	67r	37r	"		+7r	
	34	+44r	+14r ~~-59r~~	+74r		+22l	
355=	101	-60r	-30r	off.		.	
	27	-40r	-14r	-69r		-27l	
289=	102	-34r	-10r	.		.	
281² 272=	103	-36r	6r	-63r		.	
25² 242=	104	+25r	+7l	55r		+31l	
254=	105	-20r	-11l	50r		-42l	
267=	106	-22r	-10l	.	off.	.	
239=	107	+8r	+24l	+38r	68r	+54l	-84r ~~84r~~
241=	108	+8r	+23l	38r	68r	.	-off ~~86r~~
240=	109	-22r	-31l	-43r	-76r	-58l	.
209=	110	+7l	37l	24r	60r	68l	~~-72 -81r~~
202=	111	9 ~~-1~~ l	39l	22r	58r	69l	~~-71 -81~~
212=	112	-6 ~~-1~~ l	36l	25r	61r	-67l	~~-75 -78~~
	11	+28r	+43l	+40r	+72r	+68l	70r
199=	113	.	.	+23r	.	.	67r
196=	114	+30 ~~-1~~ l	+51l	+30r	+59r	+79l	58r
184=	115	-21l	.	.	.	.	-67r
192=	116	-28l	-51l	-28r	-55r	-81l	-80r
187=	117	-31l	-55l	-29r	.	off.	-80r
172=	118	-37l	.	.	.	off	-66r
169=	119	-33l	63l	-6r	-34r		-55r
159=	120	37l	+67l	+7l	30r		-48r ~~55r~~
	14	47l	+75l	+24l	+33r		rH 8 -32 ~~55r~~

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Tuesday October 23, 1917.

Mc Cormick plates. Distances of each star from centre.

B114-

		Exp. 1	Exp. 3	Exp. 2	Exp. 5	Exp. 4	Exp. 6.
141 =	121	+51 l	+81 l	+23 l	+20 r	ff.	- 28 r
143 =	122	+50 l	+80 l	+21 l	+21 r		- 30 r
137 =	123	-55 l	-84 l	-26 -36 l	-18 r		- 51 r
131 =	124	-58 l	off.	-30 l	-18 r		- 53 r
120 =	125	-66 l		-38 l	-16 r		- 52
103 =	126	-75 l		-45 l	-12 l		- 44
91 =	127	-83 l		-54 l	-23 l		- 53 l
114 =	128	+71 l		+42 l	+16 l		- 20
86	129	86 l		+56 l	+21 l		-31 l
82 =	130	off.	off.	60 l	24 l	off.	- 47 l

91	-82 l	.	-53 l	-20 l	.	.
5	-55 l	-82 l	-36 l	-35 r	.	.
207	-39	-63 l	-46 r	-67 r	-77 l	.
217	-38	-60 l	-47 r	-71 r	-72 l	.
272	-25 r	-12 l	-56 r	-90 r	37 l	.
277	+33 r	+20 l	+60 r	.	+40 l	.
280	+43 r	+33	+67 r	.	+48 l	.
301	+47 r	+27 r	+76 r	.	+34 l	.
328	+57 r	+33 r	+86 r	.	+28 l	.
333	56 r	26 r	.	.	+7 l	.
356	70 r	41 r	.	.	+22 r	.

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Sheet 7

Monday October 29, 1917.

Scale N — Ac Yellow plates. H.S. Regions. C5 YELLOW — Copied 23:104

10 — Ac 17094

	sc.B	sc C	sc G	Diff	Cw.	
	5.7					
1	6.1	5.6	5.65	1 0 0.73	0.76	6.41
	7.1					
2	7.5	7.1	7.10	00 0.69	0.64	7.74
	6.0 5.7					
3	6.4 6.1	5.6 5.6	5.72	30 1 1 0.77	0.76	6.48
	6.6					
4	7.0	6.5	6.55	0 1 0.73	0.69	7.24
	7.5					
4a	7.9	7.1	7.60	1 1 0.52	0.59	8.19
	7.9					
5	8.3	7.8	7.85	1 0 0.58	0.55	8.40 8.38
	8.3					
6	8.1	8.4	8.35	1 0 0.54	0.49	8.89
	7.4					
7	7.8	7.6	7.50	1 1 0.48	0.60	8.10
	8.2					
8	8.6	8.6	8.40	2 2 0.73	0.48	8.88
	8.2					
9	8.6	8.3	8.25	0 1 0.39	0.50	8.75
	8.4					
10	8.8	8.6	8.50	1 1 0.54	0.48	8.98
	8.5					
11	8.9	8.7	8.60	1 0 0.62	0.46	9.06
			9.25	1 2		
12		9.1	9.4	0.38	0.58	9.83
			9.25	0 1		
12a		9.2	9.3	0.65	0.58	9.83
	8.4	8.55	2 1			
13	8.8	8.8		1.05	0.48	9.03
			9.05	2 3		
14		8.8	9.3	0.01	0.49	9.54
			9.70	0 0		
14a		9.1	9.1	0.75	1.02	10.72
			9.35	0 1		
15		9.4	9.3	0.18	0.71	10.06
			9.70	1 1		
16		9.8	9.6	1.32	1.02	10.72
17		7.	7.	,	,	,
18		7.	7.	,	,	,
			9.65	0 1		
19		9.6	9.7	1.37	0.95	10.60
20		7.	7.	,	,	,
21		ns.	ns.	,	,	,
22		ns.	ns.	,	,	,
23						
24						

10 25

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Shell 7

Monday October 29, 1917.

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Scale 7 ac yellow plates. N S. Regions C5 YELLOW

Ac 17 356

	pc B	C	C	Diff		Cw.	
1	5.7 6.1	5.4	5.55	.12 0.83	✓	0.91	6.46
2	7.1 7.0 7.5 7.4	6.88	6.96.7	21 22 0.91		0.79	7.67
3	5.4 5.8	5.6	5.50	11 0.99		0.91	6.41
4	6.6 7.0	6.6	6.60	00 0.68		0.82	7.42
4a	7.3 7.1	7.4	7.35	10 0.77		0.73	8.08
5	8.0 8.4	7.8	7.90	11 0.53		0.62	8.52
6	8.2 8.6	8.4	8.30	11 0.59		0.53	8.83
7	7.2 7.6	7.21	7.20	00 0.78		0.75	7.95
8	8.6 9.0	8.6	8.60	00 0.53		0.46	9.06
9	8.3 8.7	8.21	8.25	10 0.39		0.54	8.79
10	8.4 8.8	8.5	8.45	01 0.59		0.50	8.95
11		9.00 9.21	8.8	22 0.22		0.36	9.36
12		9.45 9.5	9.4	10 0.18		1 0.28	9.66
12a		9.35 9.4	9.3	01 0.55		0.24	9.59
13		8.55 8.5	8.6	10 1.05		0.48	9.03
14		9.45 9.5	9.4	10 .041		0.21	9.66
14a		ns.	7.			"	"
15		9.50 9.5	9.5	00 0.03		0.20	9.70
16		7.	7.	"		"	"
17		7.	7.	"		"	"
18		ns.	ns.	"		"	"
19							
20							
21							
22							
23							
24							

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Monday October 29. 1917.

1

Scale N Ac yellow plates. H. S. Regions Cb YELLOW

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Ac 17 3 58.

	Ac B	C	C	Diff	Cu	
	5.7					
1	6.1	5.6	5.65	10 1.25	1.10	6.75
	5.4					
2	5.8	5.5	5.45	01 .	.	.
	6.8					
3	7.2	6.5	6.65	21 0.85	0.86	7.51
	6.4					
4	6.8	6.4	6.40	00 0.86	0.91	7.31
	6.7					
5	7.1	6.6	6.65	10 0.92	0.86	7.51
	7.2					
6	7.6	6.9	7.05	21 0.94	0.83	7.88
	7.4					
7	7.8	7.6	7.50	11 1.07	0.80	8.30
	7.1					
8	7.5	7.3	7.20	11 0.60	0.82	8.02
	7.3					
9	7.7	7.1	7.20	11 0.65	0.82	8.02
	7.0					
10	7.4	6.7	6.85	21 0.66	0.82	7.67
	7.8					
10a	8.21	8.0	7.90	11 0.88	0.80	8.70
	8.4					
11	8.8	8.3	8.35	01 0.83	0.80	9.15
	7.3					
12	7.7	7.6	7.45	12 0.79	0.81	8.26
	8.1					
13	8.5	8.1	8.10	00 0.76	0.80	8.90
	8.6					
14	9.0	8.7	8.65	01 0.88	0.83	9.48
14a	7.9	9.2		0.54,	0.94	10.14
15	8.3	8.2	8.05	12 0.88	0.80	8.85
16		9.5	9.45 10 9.45 01	9.4 0.83	0.99	10.44
17		9.4	9.5	0.99	0.99	10.44
18		ms.	ms. 9.25 01	,	,	,
19		9.2	9.3	1.22	0.94	10.19
20		9.6	9.65 01 9.7	1.19	1.07	10.72
21		ms	ms.	,	,	,
22		ms.	ms.	,	,	, .
23		ms		,	,	,
24		ms		,	,	,
25						
26						

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Scale 7 ac yellow plates. H.S. Regenis Cb. YELLOW

ac 15868

	ac. AB	B	C	Diff	Cu	
1	4.9 5.3	4.8	4.85 1 0	2.05	2.03	6.88
2	4.7 5.1	4.7	4.70 0 0	.	2.09	6.79
3	5.7 6.1	5.5	5.60 1 1	1.90	1.80	7.40
4	5.4 5.8	5.5	5.45 0 1	1.81	1.84	7.29
5	6.0 6.4	5.7	5.85 2 1	1.72	1.73	7.58
6	6.4 6.8	6.5	6.45 0 1	1.54	1.60	8.05
7	7.0 7.4	6.7	6.85 2 1	1.72	1.52	8.37
8	6.1 6.5	6.1	6.10 0 0	1.70	1.69	7.79
9	6.4 6.8	6.3	6.35 0 1	1.50	1.62	7.97
10	6.3 6.7 6.6	6.02	3.2 1 3			
		5.9	5.7	1.49	1.70	7.72
10a	7.2 7.6	7.3	7.25 0 1	1.53	1.45 ~~1.64~~	8.70
11x	7.3 7.7	7.7	7.50 2 2	1.68	1.42 ~~1.60~~	8.92
12	7.0 7.4	6.9	6.95 0 1	1.29	1.50 1.XX	8.45
13	7.3 7.7	7.5	7.40 1 1	1.46	1.42	8.82
14	8.1 8.5	8.1	8.10 0 0	1.43	1.36	9.46
15	7.7 8.1	7.8	7.75 1 0	1.11	1.38	9.13
16	8.5 8.9	8.7	8.60 1 1	1.68	1.38	9.98
assume 8.7 0.			9.10 0 0			
17		9.1	9.1	1.34	1.44	10.54
			9.40 0 0			
18		9.4	9.4	1.54	1.53	10.93
			9.00 1 1			
19		8.9	9.1	1.47	1.42	10.42
			9.40 1 1			
20		9.3	9.5	1.44	1.53	10.93
			9.45 1 0			
21		9.5	9.4	1.39	1.55	11.00
			9.65 1 0			
22		9.1	9.6	1.64	1.70	11.35
			9.55 1 0			
23		9.5	9.6	2.03	1.65	11.20
24		ns	ns	,	,	,
25		ns	ns	,	,	,
26		ns	ns	,	,	,

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Ac 160821

	pc B	pc C	C.	Diff	Cu.	
1	4.7 5.1	4.7	470	00 1.10	1.14	5.84
2	6.4 6.8	6.5	645	01 1.11	1.02	7.47
3	7.2 7.1 7.6 7.5	6.98 2.1 3 1 6.7 6.9		098	0.90	7.88
4	7.0 7.4	7.1	705	01 0.86	0.86	7.91
5	7.1 7.5	6.8	698	1 2 0.81	0.90	7.85
6	7.8 8.21	7.8	780	00 0.66	0.63	8.43
7	8.1 8.5	8.3	820	1 1 0.48	0.51	8.71
8	8.7.	8.8		0.48	0.41	9.21
9		9.15 1 0 9.1	9.2	0.51	0.44	9.59
10		9.30 1 1 9.2	9.4	0.26	0.45	9.75
11	8.4 8.8	8.50 1 1 8.6		0.32	0.44	8.94
12		9.20 00 9.21	9.2	0.42	0.44	9.64
13		9.70 1 1 9.6	9.8	0.62	0.51	10.21
14		9.75 0 1 9.8	9.7	0.50	0.53	10.28
15		f.	f.	,	,	,
16		f.	f.	,	,	,
17		ns.		,	,	,
18		ns.		,	,	,
19						
20						
21						
22						
23						
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1205

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Shuls 8

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Scale N Ac yellow plates. N.S. Regions. C8. YELLOW

Ac 17532

12 30

	ac	B	c	C	Diff
1	6.2 6.6		5.8	600 2 2	0.99
2	6.3 6.7		6.2	625 1 0	0.99
3	7.2 7.6		7.3	725 0 1	0.83
4	6.1 6.5		5.7	590 2 2	0.98
5	6.0 6.4		6.1	6.05 0 1	0.67
6	5.7 6.1		6.3	600 3 3	1.14
6a	7.4 7.8		7.1	755 2 1	0.81
7	7.3 7.7		7.5	7.40 1 1	
8	7.1 7.5		7.2	7.15 1 0	0.69
9	7.7 8.1		7.5	7.60 1 1	0.72 (0.67)
10	8.3 8.7		8.5	8.40 1 1	0.97
11	8.3 8.7		8.6	8.45 1 2	0.73
12	8.2 8.6		8.2	8.20 0 0	0.54
13	8.2 8.6		8.4	8.30 1 1	0.47
14	8.5 8.9	8.55 1 0	8.6		0.91
Remas. Feb. 10, 1918.			9.25 0 1		
	15		9.2	9.3	0.65
ac 2			8.80 0 0		
8.7	16	8.	8.8 (from 8.8?)	88	1.32
			8.90 2 2		
8.7	17		9.1	8.7	0.46
			9.45 0 1		
9.4	18		9.4	9.5	0.85
			9.20 0 0		
	19		9.2	9.2	0.75
			8.75 1 0		
8.8	20		8.7	8.8	1.01
			9.25 1 0 (from		
9.4	21		9.3	9.2	1.69
	22		7.	7	,
	23		ns	ns	,
	24		ns	ns	,
	25		ns.	ns	,

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12 50

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Sheet 8

Monday October 29, 1917.

Scale N. Ac Plates. H.S. Regions. C8. YELLOW Copied 23.122

2- Ac 16537

	pc.B	pc.C	C	Diff.	Cu.	
1	6.0 6.4	5.7	5852	1.14	1.12	6.97
2	6.3 6.7	5.8	6032	1.19	1.06	7.11
3	7.0 7.4	7.1	7050	1.03	0.86	7.91
4	5.7 6.1	5.6	5650	1.23	1.16	6.81
5	5.7 6.1	5.7	5700	1.02	1.15	6.85
6	6.2 6.6	6.3	6250	0.89	1.02	7.27
6a	7.4 7.8	7.3	7350	1.01	0.81	8.16
7	7.7 8.1	7.5	7601	,	,	,
8	7.1 7.5	7.1	7100	0.74	0.85	7.95
9	7.7 8.1	7.6	7650	0.62	0.76	8.41
10	8.3 8.7	8.1	8201	1.17	0.67	8.87
11	8.1 8.5	8.2	8151	1.03	0.69	8.84
12	8.3 8.7	8.4	8351	0.39	0.65	9.00
13		8.7	8.55 17 8.4	0.22	0.62	9.17
14		8.6	8.85 23 9.1	0.61	0.61	9.46
15		9.3	9.25 10 9.2	0.72	0.64	9.89
16		9.4	9.40 00 9.4	0.72	0.68	10.08
17		9.1	8.95 12 8.8	0.41	0.62	9.57
18		9.4	9.40 00 9.4	0.90	0.68	10.08
19		9.5	9.45 10 9.4	0.50	0.69	10.14
20		9.1	8.95 12 8.8	0.81	0.62	9.57
21		?.	10.0?	0.94	0.80	10.80?
22		10.0?	?.	1.34	0.80	10.80?
23		ns.	ns.	,	,	,
24		ns.	ns.	,	,	,
25						

220

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Sheet 8

Tuesday October 30, 1917.

Scale 1" = 30" Ac Plates. F. S. Regnis. ~~C9~~ C10. YELLOW Copied 23.134

Ac 15365

	pc. B	c	c	Diff	Cw.	
1	7.2 7.6	7.3	7.25 01	-0.29	-0.22	7.03
2	7.3 7.7	7.3	7.30 00	-0.07	-0.25	7.05
3	7.1 7.5	7.1	7.10 00	-0.24	-0.16	6.94
4	7.9 8.3	8.2	8.05 12	-0.46	-0.42	7.63
5	8.4 8.8	8.5	8.45 01	-0.34	-0.42	8.03
6	8.3 8.7	8.5	8.40 11	"	~~-0.43~~	"
7	7.8 8.2	7.7	7.75 01	-0.44	-0.39	7.36
8		9.3	9.30 00 9.3	-0.16	-0.27	9.03
9		9.3	9.25 10 9.2	-0.54	-0.28	8.97
10		9.1	9.70 00 9.7	-0.24	-0.14	9.56
11		9.8	9.75 01 9.7	-0.02	-0.12	9.63
12		f.	f.	"	"	"
13		f.	f.	"	"	"
14		ns.	ns.	"	"	"
15		ns.	ns.	"	"	"
16						
17						
18						
19						
20						
21						
22						
23						
24						
25					no ft. stars seen.	
26						

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1916phae.proj.10740

208

Sheet 8

Tuesday October 30, 1917.

Scale N. AC Plates, H.S. Regions. C11. YELLOW Copied 23:140

Am 10875

	pg.B	sc.L	C		Cw.	
1	7.4 7.8	7.5	7.45 0 1	−1.08	−1.10	6.35
1a	8.0 8.4	7.8	7.90 1 1			6.79
2	7.3 7.7	7.2	7.25 1 0	−1.17	−1.11	6.15
			8.70 0 0		−1.10	
3	8.7 7.3	8.7	8.7	−1.03	−1.10	7.60
4	7.7 8.4	7.4	7.35 1 0	−1.13	−1.10	6.25
5	8.8	8.5	8.45 0 1	−0.98	−1.10	7.35
			9.15 0 1			
6		9.2	9.1	−1.27	−1.09	8.06
			9.75 0 1			
7		9.8	9.7	−1.07	−1.06	8.69
			9.80 0 0			
8		9.8	9.8	−0.92	−1.06	8.74
9		10.0	〃	−1.03	−1.04	8.96
10		〃	〃	〃	〃	〃
11		〃	〃	〃	〃	〃
			9.75 1 0			
12		9.7	9.8	−1.15	−1.06	8.69
13		n.s.	n.s.	〃	〃	〃
14		n.s.		〃	〃	〃
15						
16						
17						
18						
19						

No ft plates prev.

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1916phae.proj.10740

Sheet 9 Tuesday, October 30, 1917.

Copied 23:146

Scale: N Ac Plates. H.S. Regions C12 YELLOW

Ac 16892

	Ac	B	C	C	Diff	Cw	
	6.1	6.0 6.4	5.8	5.8			
1	6.5		5.92	21	0.76	0.67	6.59
	5.7						
2	6.1		5.7	5.7 0 0	0.77	0.70	6.40
	6.7						
3	7.1		6.6	6.65 10	0.58	0.56	7.21
3a	6.8	7.2	6.7	6.75 0 1	.	0.54	7.29
4	6.0	6.4	5.8	6.10 3 3	0.43	0.64	6.74
	6.9						
5	7.3		6.4	6.65 3 2	0.53	0.56	7.21
	7.6						
6	8.0		7.7	7.65 0 1	0.48	0.44	8.09
	7.8						
7	8.21		8.1	7.95 2 1	0.27	0.42	8.37
	7.8						
8	8.21		8.1	7.95 2 1	0.20	0.42	8.37
	8.2						
9	8.6		8.4	8.30 1 1	0.41	0.39	8.69
	7.6						
10	8.0		7.6	7.60 0 0	0.37	0.45	8.05
	8.3						
11	8.1		8.4	8.35 1 0	0.65	0.38	8.73
	8.0						
12	8.4		8.1	8.05 0 1	0.33	0.41	8.46
				9.20 0 0			
13			9.21	9.21	0.30	0.24	9.44
				8.55 0 1			
14			8.6	8.5	0.39	0.36	8.91
	8.4	8.4 0 0					
15	8.8		8.4		0.52	0.38	8.78
				8.70 0 0			
16			8.7	8.1	0.36	0.33	9.03
				9.45 1 2			
17			9.3	9.6	-.010	0.20	9.65
18			f.	f.	,	,	,
19			ns.	ns.	,	,	,
20			ns.	ns.	,	,	,
21			ns	ns.	,	,	,
22							
23							
24							
25							
17c			9.1				
17b			9.3				

Very close together.

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Sheet 9

Tuesday October 30, 1917.

Scale n. Rc P plates. H.S Regions. C 12. YELLOW Copied 23146

Rc ~~H~~ 15520.

	ac.B	c	C	Diff	Cu	
1	6.1 6.5	5.8	595 1 2	073	056	6.51
2	6.2 6.6	5.8	600 2 2	047	0.56	6.56
3	6.8 7.21	6.5	665 2 1	0.58	0.53	7.18
4	6.1 6.5	6.1	610 0 0	0.43	0.55	6.65
5	6.9 7.3	6.6	675 1 2	0.43	0.53	7.28
6	7.4 7.8	7.1	755 2 1	0.58	0.47	8.02
7	7.4 7.8	7.6	750 1 1	0.72	0.48	7.98
8	8.0 8.4	8.4	820 2 2	-0.05	0.40	8.60
9	8.3 8.1	8.4	835 1 0	0.36	0.38	8.73
10	7.4 7.8	7.5	745 0 1	0.52	0.48	7.93
11	8.3 8.1	8.5	840 1 1	0.60	0.37	8.77
12	8.0 8.4	8.1	805 0 1	0.33	0.42	8.47
13		8.8		0.70	0.32	9.12
14	8.2 8.6	8.47	3 11	0.47	0.37	8.84
		8.6	86			
15	8.4 8.8	8.60	2 11	0.32	0.34	8.94
		8.7	87			
16		9.10	00	-0.04	0.29	9.39
		9.1	9.1			
17		9.25	10	0.10	0.27	9.52
		9.3	9.2			
18		f.	f.	,	,	,
19		f.	f?	,	,	,
20		ws.	ws.	,	,	,
3a	6.9 7.3	6.80	1 1	6.7	0.52	7.32
17b		9.6			0.21	9.81
17c		9.7			0.20	9.90

11 35

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Wednesday October 31, 1917.

3146

Scale 7 Arc Plates. H.S. Regions. D1. YELLOW Copied 23, 152

9 55 Arc 15859

	Arc. B	C	C	Diff.	Diff	Cu		
	6.2							
1	6.6	6.3	6.25 0 1	0.43	1.15	0.54	1.02	7.27
2	6.4 6.8	6.4	6.40 0 0	0.07	1.03	0.54	1.00	7.40
3	6.1 6.5	6.4	6.25 1 2	0.98	0.89	0.55	1.02	7.27
4	6.4 6.8	6.5	6.45 0 1	0.08	1.06	0.54	0.99	7.44
5	6.2 6.6	6.4	6.30 1 1	0.88	0.92	0.55	1.02	7.32
6	6.1 6.5	6.1	6.10 0 0	2.03	1.13	0.55	1.07	7.17
7	7.2 7.6	7.4	7.30 1 1	0.92	,	,	,	,
8	7.7 8.1	7.6	7.65 1 0	0.50	0.79	0.46	0.71	8.36
9	7.3 7.7	7.4	7.35 1 0	1.36	0.83	0.49	0.78	8.13
10	7.4 7.8	7.4	7.40 0 0	0.57	0.75	0.48	0.75	8.15
11	8.3 8.7	8.6	8.45 1 2	0.55	0.54	0.37	0.60	9.08
12	8.4 8.8	8.6	8.50 1 1	0.12	0.74	0.36	0.59	9.09
13	8.4 8.8	8.4	8.40 0 0	1.10	0.55	0.38	0.60	9.00
14		8.8		0.14	0.48	0.32	0.56	9.36
15	8.5 8.9	8.1	8.60 1 1	0.32	0.56	0.35	0.58	9.18
16		9.3	9.30 0 0 9.3	0.24	0.52	0.35	0.54	9.84
17		9.1	9.70 0 0 9.1	0.35	0.60	0.20	0.52	10.22
18		10.0	7.	0.74	0.56	,	0.51	10.51
19		‡	‡	,	,	,	,	,
20		‡	‡	,	,	,	,	,
21		9.8	9.88 0 1 9.9		0.43	,	0.52	10.37
22		ns.	ns	,	,	,	,	,
23		ns	ns	,	,	,	,	,
24								

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Study

Wednesday October 31, 1917.

Selen Ac Plates H.S. Regions. D1. YELLOW Cofnid 23.152

Am 11196

	sc B	sc C	C	Diff	Cu.	
			8.75 1.0			
1	8.1	8.8		-1.35	-1.50	7.25
			9.10 0.0			
2	9.1	9.1		-1.67	-1.57	7.53
			8.65 1.0			
3	8.1	8.6		-1.51	-1.48	7.17
			9.10 0.0			
4	9.1	9.1		-1.59	-1.57	7.53
			8.60 1.1			
5	8.1	8.5		-1.38	-1.47	7.13
			9.15 1.0			
6	9.1	9.2		-1.92	-1.58	7.57
			9.80 1.1			
7	9.1	9.9		"	-1.69	8.11
8	f.	f.		"		"
			9.80 0.0			
9	9.8	9.8		-1.62	-1.69	8.11
			9.60 0.0			
10	9.6	9.6		-1.45	-1.66	7.94
11	ns.	ns.		"	"	"
12	ns.	ns.		"	"	"
13	ns	ns.		"	"	"
14						
15						

Plate does not show faint stars!!!

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Shuey.

Wednesday October 31, 1917.

Seslen Ac Plates. H.S. Regions D2. YELLOW Cofrid 23:158

Ac 15663.

	Ac. B	c	C		bw.	
1	5.7 6.1	5.5	560 1 ±	1.12	1.52	7.12
2	6.7 6.6	5.8	600 2 ±	1.54	1.42	7.42
3	4.9 5.3	4.9	490 0 0	1.94	1.75	6.65
4	6.9 7.3	6.6	675 1 ±	1.35	1.29	8.04
5	5.3 5.7	5.7	550 2 ±	1.48	1.54	7.04
6	6.7 7.1	6.5	660 1 ±	1.12	1.32	7.92
7	6.8 7.21	6.8	680 0 0	1.31	1.29	8.09
8	6.7 7.1	6.4	655 1 ±	0.89	1.32	7.87
9	7.0 7.4	6.7	685 2 ±	1.49	1.28	8.13
10	7.9 8.3	7.8	785 1 0	1.17	1.13	8.98
11	7.9 8.3	7.8	785 1 0	1.27	1.13	8.98
12	7.9 8.3	8.1	800 ± 1	1.12	1.11	9.11
13	8.2 8.6	8.4 8.4	846 ± 11 875 0 ±	1.01	1.03	9.49
14		8.8	8.7	1.08	1.00	9.78
15		9.3	9.4 9.35 1 0	1.11	0.91	10.26
16	~~8.3~~ ws	9.2	9.1 9150 ±	0.67	0.94	10.09
17		9.4	9.3 9380 ±	1.00	0.91	10.26
18		f	f	,	,	,
19		ws	ws	,	,	,
20		ws	ws	,	,	,
21						
22						
23						
24						
25						

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Sheet 9

Wednesday October 31, 1917.

YELLOW

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Scale Ac Plates St. L Regions D2.

Am 11246

	Sc. B	C	C	Diff	Cu.	
1	8.2 8.6	8.7	8.30 925	−1 −1.58	−1.58	6.72
2		9.21	9.3	−1.71	−1.72	7.53
3	7.4 7.8	7.1	7.55	2 −1.42	−1.43	6.12
4		9.7	9.80 9.9	−1 −1.70	−1.78	8.02
5		8.6	8.55 8.5	01 −1.57	−1.62	6.93
6		9.7	9.60 9.5	1 −1.88	−1.76	7.84
7		9.6	9.60 9.6	00 −1.49	−1.76	7.84
8		9.5	9.45 9.4	10 −1.91	−1.75	7.70
9		10.0?	‡	−1.66	−1.79	8.21?
10		‡	‡	,	,	,
11		‡	‡	,	,	,
12						
13						
14						
15						
16						
17						
18						

Faint plate not used.

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Shutter.

Wednesday October 31. 1917.

Scale N. Ac Plates. N.S. Regions. δ 3. YELLOW Copied 23:164

Ac 15692

	Ac B	Ac A	C	Diff	Cu. ~~.074~~	Magn.
1	6.3 6.7	6.1	6.20 1	1 0.83	0.74	6.94
2	5.0 5.4	5.2	5.10 1	1 1.00	0.88	5.98
3	6.0 6.4	5.6	5.80 2	2 1.03	0.79	6.59
4	5.9 6.3	5.5	5.70 2	2 0.65	0.80	6.50
5	6.6 7.0	6.4	6.50	1 1 0.84	0.74	7.24
6	6.7 7.1	6.4	6.55 1	2 0.92	0.73	7.28
7	6.9 7.3	6.6	6.75 1	2 0.90	0.72	7.47
8	6.0 6.4	5.7	5.85 2	1 0.77	0.79	6.64
9	6.9 7.3	6.7	6.80 1	1 0.43	0.72	7.52
10	7.7 8.1	7.5	7.60 1	1 0.88	0.73	8.33
10a	8.1 8.5	8.4	8.25 1	2 0.50	0.80	9.05
11	7.2 7.6	7.1	7.15 0	1 0.76	0.72	7.87
12	7.0 7.4	6.9	6.85 2	1 0.47	0.72	7.57
13	7.8 8.2	7.8	7.80	00 0.36	0.75	8.55
14	8.6 9.0	8.6	8.60	00 0.78	0.87	9.47
15	8.2 8.6	8.5	8.85 2	1 1.13	0.83	9.18
16		8.6	8.65 0	1 8.7 0.99	0.88	9.53
17		8.6	8.65 0	1 8.7 1.07	0.88	9.53
18		9.4	9.35 0	1 9.3 1.09	0.99	10.34
19		8.7	8.65 1	0 8.6 1.01	0.88	9.53
20		9.2	9.15 0	1 9.1 0.83	0.95	10.10
21		9.6	9.50 1	1 9.4 0.87	1.00	10.50
22		9.4 wk	†	,	,	,
23		10.0	10.00	00 10.0 1.54	1.08	11.08
24		10.0	†	1.03	1.08	11.08
25		ms	ms	,	,	,
26		ms.	ms	,	,	,

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Sheet 10

Wednesday October 31, 1917.

YELLOW

Scale 11 Ac Plates. H.D. Regions. D3. Cofried 23:164

Ac 15684

	pc	B	C	C	Diff Cor	Cu.	Magn
1	5.7 6.1	5.6	5.65	1 0	1.38	1.31	6.96
2	4.4 4.8	4.5	4.45	0 1	1.65	1.61	6.06
3	5.4 5.8	5.2	5.40	0 0	1.43	1.37	6.77
4	5.1 5.5	5.2	5.15	1 0	1.20	1.44	6.59
5	6.1 6.5	5.8	5.95	1 2	1.39	1.23	7.18
6	6.1 6.5	5.7	5.90	2 2	1.57	1.24	7.14
7	6.2 6.6	5.9	6.05	2 1	1.60	1.21	7.26
8	5.3 5.7	5.6	5.45	1 2	1.17	1.36	6.81
9	6.3 6.7	6.3	6.30	0 0	0.93	1.16	7.46
10	7.1 7.5	6.7	6.90	2 2	1.58	1.06	7.96
10a	7.9 8.3	8.1	8.00	1 1	0.75	0.96	8.96
11	7.0 7.4	6.7	6.85	2 1	1.06	1.06	7.91
12	6.4 6.8	6.4	6.40	0 0	0.92	1.13	7.53
13	7.2 7.6	7.2	7.20	0 0	0.96	1.03	8.23
14	8.2 8.6	8.1	8.15	0 1	1.23	0.96	9.11
15	8.3 8.7	8.4	8.35	1 0	1.13	0.96	9.31
16		8.7			0.94	0.94	9.64
17		8.7			1.02	0.94	9.64
18		9.4			1.04	0.94	10.34
19	8.4 8.8	8.4	8.40	0 0	1.26	0.96	9.36
20		9.2			0.78	0.94	10.14
21		9.6			0.77	0.94	10.54
22		9.4			~~2.14~~		Reexamined Feb. 19, 1918: N.S. defect near pos. of 22. reject. Prob. some error in recording.
23		9.7			1.60	0.94	10.64
24		n.s.			,	,	
25		n.s.			,	,	
26		n.s.			,	,	

11 35

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Thursday November 1, 1917.

Region near Sect. Sol.

Estimates of stars (magns. requested by Russell.)

Star	Yellow plates. Mc 8302	Yellow pl. Mc 8302
126a	~~10.8~~ 10.7 ✓	
Star 131		9.4 9.3 ✓
	Mc 6252	Mc 6252
126a	10.8 ✓	
131		9.5 ✓

(See also p. 192)

	Blue plates. Mc 5694
166	10.5
240a	10.6 ✓
250a	11.0
	Mc 8601
166	10.7 ✓
240a	10.8 ✓
250a	11.1 ✓
	Mc 8304
166	10.4 ✓
240a	10.5 ✓
250a	10.9 ✓

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Thursday February 21, 1918

Scale R — Carte 11 +10°. Remeas. of plats 12–17.)

§30 — MC 7655 (see note on cover). copied 10:103

	Sc.1	Sc.2	Sc.3		Diff. from 014:68	Curve Rdg	Magw. + 1.14 ast.
12	10.3	10.4	10.35	1 0	+1.60	1.51	11.86
13	10.6	10.4	10.50	1 1	1.45	1.51	12.01
14	11.2	11.1	11.15	0 1		+1.51	12.66
15	11.2	11.1	11.15	0 1		+1.51	12.66
16	11.4	11.6	11.50	1 1	1.60	1.53	13.03
17	~~11.7~~ +25.1	11.7	11.70	0 0	1.58	1.54	13.24

copied 10:103

MC 7238 — from 016:52 — Alt. + 14

	Sc.1	Sc.2				
12	9.6	9.4	9.50	1 1	+2.52	2.61	12.11
13	9.5	9.4	9.45	1 0	2.78	2.63	12.08
14	10.2	9.9	10.05	2 1		2.46	12.51
15	10.3	10.1	10.20	1 1		2.43	12.63
16	10.8	10.7	10.75	0 1	2.30	2.31	13.06
17	11.1	11.1	11.10	0 0	2.29	2.26	13.36

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Thursday February 21, 1918.

Scale R Carte 11 +10 cont-

Mc 4476

alt. +14

copied 10:103

	sc.1	sc.2	sc.		from 0 14:57	curve rdg	Magn.
12		10.3	10.2	10.25 10	+.177	1.76	12.01
13		10.7	10.5	10.60 11	1.79	1.80	12.40
14		10.6	10.7	10.65 01		+1.80	12.45
15		11.1	11.1	1110 00		1.85	12.95
16		11.84	11.5	11.45 01	1.83	1.88	13.33
17		11.6	11.6	11.60 00	1.98	1.90	13.50

8:45

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19.tophae.proj.10740

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