KG
11366
159

1917phae.proj.1161R

Susan Raymond

Asteroids 1914 + 1917.

Records IV.

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Thursday, February twenty-sixth, 1917

Antigone & Comp Stars.

Scale V

9:55

MF 537 — (Antigone)

		(1)	(2)	(3)	(4)
	~~Sc~~ B Sc C	~~Sc~~ B Sc C	~~Sc~~ B Sc C	~~Sc~~ B Sc C	~~Sc~~ B Sc C
1	~~3.9~~ def.	8.8	8.9	9.3	F
2	~~2.6~~ 8.2	7.8	7.9	8.3	8.4
3	8.9	8.9	8.9	9.5	9.5 7.85 01
4	7.7	7.3	7.6	7.9	7.8 7.9
5	9.0	8.8	+/-	9.5	8.9?
6	8.4	7.9	8.3 7.45 1r	8.4	8.8
7	7.7	7.5 7.40 11 7.3	7.3 7.6	7.9	7.9
8	9.2	9.3	8.9	F	F
9	~~9.0~~ 8.4	8.3	8.7	8.7	8.9
10	7.8	7.6	7.9	8.2	8.3
11	8.1	7.9	7.9	8.4	8.8

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1917phae.proj.1161R

Monday. Feb. 26, 1917

Scale V

MF 537 - Antigone

ScC

1	Def.	—	Cu	Magn
2	8.2	8.20 00	2.68	10.88
3	8.9	8.90 00	1.66	10.56
4	7.7	7.70 00	3.13	10.83
5	9.0	9.00 00	.	.
6	8.2	8.30 1/4	2.47	10.77
7	7.6	7.65 10	3.12	10.77
8	9.0	9.10 1/4	1.42?	10.52?
9	8.4	8.40 00	2.09	10.49
10	7.8	7.80 00	2.82	10.62
11	8.1	8.10 00	2.61	10.71

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1917phae.proj.1161R

Monday, Feb. 26, 1917

MF538 - Antigone + Comp. Stars

Magn	Cu ScBScC (Antigone)		(1) ScBScC	(2) ScBScC	(3) ScBScC	(4) ScBScC
	. 1 .	9.4	9.5	9.5	F	F
	10.742	2.44 8.3	7.8 9.35 10	7.9 9.10 11	8.8 9.60 7 11	9.0
	10.673	1.37 9.3	9.4 9.3	9.2 9.0	9.5 9.7	F
Images rather hazy.	10.684	2.78 7.9	7.6	7.9	8.4	8.4
	10.835	1.38 9.5 9.45 10	8.9	9.2	9.7	F
	10.766	2.11 8.7 8.65 10	8.4	8.3	8.9	9.2
	10.787	2.13 ~~2.38~~ 7.9 8.20 8.05 12	7.6	7.9	8.2	8.6
	. 8 .	F	8.9 8.70 00	F 8.35 01	F 8.90 00	F 8.95 01
	. 9 .	8.8	8.7 8.7	8.3 8.4	8.9 8.9	8.9 9.0
	10.8810	2.58 8.3	7.8	7.9	8.6	8.4
	10.9311	2.33 8.6	7.9 8.75 10	7.7 8.65 01	8.7 8.95 01	8.7
	10.8512	1.95 8.9	8.8 8.7	8.5 8.6	8.9 9.0	9.1
	. 13 .	F	9.2	F	F	F
	. 14 .	9.4	9.5	dy	F	F

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1917phae.proj.1161R

Monday. Feb. 26. 1917

NFS35 - Centigrade
ScC

5 9.4
6 8.6
7 8.2

10:50

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1917phae.proj.1161R

Monday, February 26, 1917

Scale V
2.50
~~12.25~~

MF539 - Antigone and Comp Stars.

	(Antigone) ScB	ScC	(1) ScC	(2) ScC	(3) ScC	(4) ScC
1	8.6		8.1	8.1	8.4	8.7
2	9.1		8.9	8.9	9.2	def.
3	8.6		7.9	8.2	8.5	8.8
4	7.8		7.6	7.6	8.3	8.3
5	8.9		8.8	8.9	F	F
6	8.5		8.2	8.5	8.8	8.9
7	7.6		7.8 7.80.0	7.6 7.80.0	8.4	8.1
8	7.7		7.8 7.8	7.8 7.8	8.3	8.1
9	8.6		8.6 8.60.0 8.6	8.6 8.60.0 8.6	8.9	9.0
10	F		9.3	F.	F	F
11	8.3		7.8	7.9	8.3	8.4
12	9.8?		def.	F	F	F
13	9.6?		F	F.	F	F

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1917phae.proj.1161R

Monday, Feb. 26, 1917

Scale V

NF 539 - Antigone

	ScC	Cu	Mag
1	8.7 8.6501	2.24	10.93
2	9.1 9.1000	1.79	10.89
3	8.6 8.6000	2.36	10.96
4	7.8 7.8000	2.88	10.68
5	8.9 8.9000	.	.
6	8.5 8.5800	2.20	10.70
7	7.7 7.6501	1.90	10.55
8	7.8 7.7501	2.28	10.53
9	8.7 8.6501	2.01	10.66
10	F —	.	.
11	7.9 8.1022	2.71	10.81
12	F 9.8?	.	.
13	F 9.6?	.	.

3:20

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1917phae.proj.1161R

Tuesday, Feb. 27. 1917

Scale V
11:15

MF531 - ~~Trans and Comp. Stars~~ Polar Sequence

	Sc	B	Sc	C
8	4.7	4.8	4.80	00
9	5.3	5.3	5.35	10
10	5.1	5.5	5.35	12
11	5.9	6.4	6.20	22
12	6.5	6.8	6.70	21
13	6.8	7.0	6.95	01
14	6.9	7.0	7.00	00

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1917phae.proj.1161R

Tuesday, Feb. 27, 1917

Aff. corr. +.21

MF 531 - Trans and Conf. Stars -

	Mag	Cu		(Trans) a ScBScC	b ScBScC	c ScBScC	d ScBScC
18	9.38	2.53	1	6.8 6.85 01 6.7 6.9	6.8 6.7 6.0 5.9	6.4 Suf. 87 6.3 6.0 5.9	6.9 6.8 6.5 6.4
	Images		2	6.9 6.85 10	6.9 6.8	6.8 6.7	7.0 6.9
18	9.38	2.53	3	6.8 6.8			
14	9.42	1.52	4	7.9 7.90 00 7.9 7.9	7.8 5.8 5.7	7.8 7.8 5.9 5.8	8.3 6.4 6.3
	Trans.		5	8.2 8.20 00			
03	9.59	1.39	6	8.2 8.2	7.8	8.0	8.3
32	9.88	2.33	7	7.55 01 7.5 7.6	7.0 6.9	7.0 6.9	7.2 6.8 6.7
01	9.57	3.02	8	6.7 6.55 21 6.6 6.4	5.9 5.8	6.7 6.6	7.0 6.9
04	9.52	1.12	9	def. 8.4 8.40	8.0 6.8	8.4	8.7
02	9.58	2.16	10	7.42 32 6.8 7.6 7.25	6.7	7.2	7.8
07	9.49	2.84	11	6.7 6.65 21	6.3 6.2	6.8 6.7	6.8 6.7
10	9.46	2.66	12	7.0 6.80 22 6.9 6.60	6.7 6.6	6.7 6.6	6.9 6.8
09	9.65	1.77	13	7.88 02 03 7.9 7.85	7.0 6.9	7.7	7.9
09	9.65	0.87	14	8.78 02 03 8.8 8.73	8.1	8.5	8.8
21	9.77	0.32	15	9.45 10 9.5 9.40	8.6	9.0	9.3?
	7.3.4						

9.56 Mean Mag

	Mean Mag	Adj. 2,8,11,12	Cu	Magn	Corr. Magn
a	6.22	2 3 15	3.33	9.55	9.76
b	6.55	6 2 22	3.32	9.87	10.08
c	6.75	2 0 02	3.33	10.08	10.29
d	7.28	5 3 34	3.40?	10.68?	10.89?

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1917phae.proj.1161R

Tuesday, Feb. 27, 1917

MF 531 – Trans and Polar Sequence
(Trans)

	Sc B	Sc C	Remarks	Polar Sequence Sc B	Sc C
	6.9			4.8	
1	6.8			4.7	
2	i			5.13	
3	6.8			5.2	
4	6.7	7.9		5.5	
5	i			5.4	
6		8.2		6.4	
7		7.6		6.3	
8		7.2 x		6.8	
9	6.4 x		6.4	6.7	
	~~6.3~~			7.0	
10		7.3	8.4	6.9	
	6.4			7.0	
11	6.3		7.2 7.25 10	6.9	
	6.7				
12	6.6		6.6 6.50 1		
13		7.8	6.5 6.60 1		
14		8.7	7.9 7.850 1		
15	F		8.8 8.750 1		
			9.4? 9.40?		

12:30

x evidently mistake – Wrong image measured first

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1917phae.proj.11618

Thursday, March 8, 1917

Scale V
2:05

MC 4034 – S Pegasi (S Pegasi) F.C. and Environs Comp. Stars. (Environs Comp.) F.C.

	Sc B	Sc C	Diff	~~Sc B~~	Sc C	Sc C		Sc B	~~Sc C~~	Sc C
	1.8							1.9		
a	1.7		5.89		7.6	0.09	a	1.8		7.8
	1.7							2.3		
b	1.6		5.87		7.3	0.27	b	2.4		8.1
	2.8							2.8		
c	2.7		5.65		8.5	−0.05	c	2.7	3.9	8.7
	2.7							3.8		
d	2.6		5.59		8.1	0.19	d	~~2.4~~	~~5.94~~ 9.84	9.5
	2.4									
e	2.3(?)		6.55?		8.8	0.15				
	2.6									
f	2.5		5.85		8.5	−0.05				
	4.4	4.40								
g	4.3	4.4	5.36		9.8	−0.04				
	2.7				8.60					
h	2.6	B	6.07		8.6	8.6 0.17				
	3.8				9.80					
K	3.7	B	5.95		9.7	9.9 −0.05				
	3.6				9.45					
l	3.5	B	5.98		9.4	9.5 0.13				
	4.3	4.30								
m	4.2	4.3	5.88		F					

MC 4034 is not a curved plate

Reject all F.C.'s on this plate. Dew on Junior

In accordance with the rules of rejecting for distance on flat plates, only stars images K, l, m can be retained.

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1917phae..proj..1161R

Thursday, March 8, 1917

Scale V

Plate Sheet 43

MC 11959 – S Pegasi + Eumonia Comp. Stars.

Diff		ScB	ScC	ScB	P.C. ScB	P.C. ScC	Diff
5.59	a	2.1 2.0			7.6		0.09
5.57	b	2.0 1.9			7.4		0.17
5.55	c	2.9 2.8			8.5		-0.05
5.59	d	2.7 2.6			7.9		0.39
5.45	e	3.5 3.4	3.5000	3.5 3.4	8.9		0.05
5.70	f	2.8 2.7	2.75 10	2.7 2.6	8.3	8.45 1 2 8.6	0.00
5.66	g	4.6 3.9	4.10 11 4.2		10.0	9.90 1 1 9.8?	-0.14
5.37	h	3.3 3.2	3.40 1 1 ~~3.4~~	3.5 3.4	8.6	8.6000	8.6+0.17
5.20	k	4.5 4.4	4.55 01 4.6		9.9?		-0.15?
5.73	l	3.8 3.7	3.85 01	3.9 3.8	9.7?		-0.12?
4.88	m	5.3 5.2	5.3000 5.3		F		F

		Cu Magn.	P.C. Cu	
		ScB	ScC	
a	2.2 2.1	5.58	7.78	7.9 0.12 8.02
b	2.7 2.6	5.59	8.29	7.8 0.13 7.93
c	3.4 3.3	5.60	9.00	8.80.03883
d	3.8 3.7	5.57	9.37	9.20.009.20

For mean magns. See f. 104

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1917phae.proj.11618

18

Thursday, March 8, 1917

Seeley

MC 11959 - S Pegasi + Enmonin Comp Stars

Diff images.

	g ScB	g ScC	h ScB	h ScC	Diff
a	6.5 6.4	6.4510	6.4 6.3		1.24
× b	4.5 4.4	4.5000	4.5 4.4		.
× c	6.8 6.7	6.6022	6.4 6.3		.
d	6.9 6.8	6.8510	6.8 6.7		1.44
× e	+ f		— + f		.
f	7.0 6.9	7.0000	7.0 6.9		1.45
g	8.8	8.7011	8.6		1.06
h	7.4	7.4000	7.4		1.37
k	8.9	8.9000	8.9		0.85
l	8.6	8.5510 ~~8.5~~	8.5		1.03
m	9.4	9.1532	8.9		1.03

Diff images

	g ScB	g ScC	h ScB	h ScC	Diff	
a	6.8 6.7	6.8000	6.8 6.7		1.39	8.19
b	7.9	6.9012	6.8 6.7		1.39	8.29
c	ScB 7.7	7.7000	ScC 7.7		1.27	8.97
d	8.3	8.3000 ~~8.3~~			8.31.12	9.42

b, c, + e are very near edge - diffraction images distorted.

3.20

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1917phae.proj.1161R

Tuesday, March 13, 1917

Scale v

2:30

MC 4357 – Enumonia Comp. Stars

R Pegasi

	ScB	ScC	F.C. ScB	F.C. ScC	(Enumonia seq) ScB	(Enumonia seq) F.C.	ScB	F.C. ScB	F.C. ScC
	1.2		5.2		c^2 1.3		c^3 2.7		7.0 7.05 01
a	1.1		5.1		a^2 1.2	5.7 5.8	a^3 2.6		6.9 7.1
			4.9		b^2 2.4	6.7 7.05 01			
b	B		4.8		2.3	reg. beg 7.1	b^3 2.7		
			5.4		3.0	8.30 11	3.6		7.2
c	B		5.3		c^2 2.9	8.4 8.2	c^3 3.0 2.9	F	7.8
	1.7		6.7	×	d^2 4.8		d^3 3.7		
e	1.6		6.6		4.7	→	3.6		8.6
f	2.6 2.5			7.6	Cu Magn	Cu Magn	Cu Magn	Cu Magn	
	2.7			7 7.4	a^2 6.04	7.34 . .	a^3 6.01	8.71	1.17 8.22
g	2.6								
	3.0			8.4	b^2 6.02	8.42 1.17 8.22	b^3 6.01	8.71	1.13 8.33
h	2.9								
	2.9			F 8.2	c^2 6.00	9.00 0.93 9.23	c^3 6.00	9.00	1.03 8.83
K	2.8								
	3.7			8.8	d^2 ~~5.85 10.65~~	. .	d^3 5.97	9.67	0.88 9.48
l	3.6								
	4.3 4.20								
m	4.2	4.2		∓ 9.6	d^2 5.96	9.66 0.83 9.63			
	4.0								
n	3.9	B		9.3					
	5.9								
o	5.8	5.9		F					
	4.7								
p	4.8	4.9		F	+ d^2 meas. line is wrong sta - real d^2 = l.				

1:20 out

	MC 4357	MC 6321	MC 11137	MC 4357 F.C.	MC 6321	MC 11137		MC 11137 Diff. incap
a^2	7.34	7.33	7.32	7.33 01 00 01	.	7.33	7.33 . . a	.
b^2	8.42	8.72	8.22	8.45 03 27 23	8.22	8.33	8.28 02 05 00	8.43
c^2	9.00	9.42	9.01	9.14 14 28 13	9.23	9.31	9.25 9.26 03 05 01	9.42
d^2	~~10.65~~	~~10.54~~	~~10.55~~	~~10.58 01 04 03~~	.	~~10.44~~	10.18 10.31 . 13 13	~~10.56~~
	9.66	9.59	9.40	9.55 11 04 15	9.63	9.67	9.53 9.61 02 06 08	9.58

Weighted means

a^2 7.33 (00)^B a.

b^2 8.28 (00)^B a (15)^B

c^2 9.30 (16)^B 04 16

d^2 ~~10.58~~ 00 (~~01~~)^F 00 9.58 03 03 00

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Tuesday, March 13, 1917

Put Sheet 24

NGC 4357 (Enronia) Enronia Comp 5 stars (Carter)

	F.C. ScB	F.C. ScC	Diff		ScB	ScC	Magn.	F.C. ScB	F.C. ScC	Diff
b	3.7				1.3					
a	3.6	8.7	6.04	1	1.2		7.34	5.9		1.34
			5.98				6.8			0.88
L	4.0	9.2	5.89	2	3.7		9.59		8.8	0.79
	3.9				3.6					
b	4.8				4.2 4.25 01					
	4.7	dy.	5.88	3	4.1	4.3	10.13		9.6	0.53
c	5.0				5.1 5.15 01					
d	4.9	9.4	5.88	4	3.0	5.2	11.03	—		Tw F
					5.3 5.35 01					
	Cu Magn	Cu Magn	5.84	5	3.2	5.4	11.19	—		or
a	5.96	9.66 0.86 9.56			6.2 6.05 1.2					
b	5.92	9.92 0.71 9.91	5.67	6	6.1	5.9	11.72	—		file for -
c	5.84	10.64 . .								
d	5.83	10.83 0.65 10.05								

4.70

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1917phae.proj.1161R

Wednesday, March 14, 1917

Scale V
9:10

MC 6321 – Eunomia

R (ζ Pegasi)

	ScBScC	ScBScC
a	1.4 1.3	5.5 5.4
b	B	4.9 4.8
c	B	6.0 5.9
e	1.7 1.6	
f	2.8 2.7	
g	2.8 2.7	
h	3.7 3.6	
k	3.0 2.9	
l	3.7 3.6	
m	4.8 4.8 4.8 4.7	
n	4.0 3.9 B	
o	5.9 5.8 5.8 5.8	
	5.7 5.5 5.5 5.6	5.4

P.C.

ScBScC	
suf.	
	7.2
	7.2
	8.2
	8.1
	8.2
	9.2
	8.7
	9.9?
	9.4

Eunomia Comp. Stars

[Eunomia suf.]

	ScB	ScC	P.C.	
a^2	1.3 1.2	5.6 6.3 8.2	6.25 6.2	10
b^2	2.7 2.6		7.1	
c^2	3.5 3.4		7.9	
d^2	4.9 4.8	5 10 4.8	8.9	

	ScBScC	P.C.
a^3	2.7 2.6	7.4
b^3	2.6 2.5	7.4
c^3	3.0 2.9	7.8
d^3	3.8 3.7	8.4

	Cu Magn	Cu Magn		
a^2	6.03	7.33	.	.
b^2	6.02	8.72	1.23	8.33
c^2	5.92	9.42	1.41	9.31
~~d^2~~	~~5.69~~	~~10.64~~	~~1.54~~	~~10.44~~
$d^2=l$	5.89	9.59	1.47	9.67

	Cu Magn	Cu Magn		
a^3	6.03	8.73	1.30	8.76
b^3	6.03	8.63	1.30	8.70
c^3	6.01	9.01	1.39	9.19
d^3	5.88	9.68	1.49	9.89

	MC 4337	MC 6321	MC 11137		MC 4337	P.C. MC 6321	MC 11137		MC 11137 Diff. images
a^3	8.71	8.73	8.52	8.65 06 08 13	8.22	8.70	8.44	8.45 23 25 01	8.55
b^3	8.71	8.63	8.52	8.62 09 01 10	8.33	8.70	8.44	8.49 16 21 05	8.68
c^3	9.00	9.01	9.01	9.01 01 00 00	8.83	9.19	8.61	8.88 05 31 27	8.85
d^3	9.67	9.68	9.88	9.74 07 08 14	9.48	9.89	9.66	9.68 20 21 02	9.54

Weighted means

a^3 8.48 (17)B 03 07
b^3 8.54 (08)B 05 14
c^3 8.87 (14)B 01 02
d^3 9.69 05 01 15

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Wednesday. March 14, 1917

Plots Sheet 28

Scales

MC6321 – Emmonia Comp 5 stars Carte

P.C.

	ScB	ScC	ScB	ScC	Magn	Diff	ScB	ScC	Diff
a	3.7 3.6			8.2	1	3.6	7.34	6.14	6.2		1.04
b	4.0 3.9			8.9	2	3.7 3.6	9.59	5.89		8.2	1.39
c	4.8 4.7	4.75 4.7	10	9.2	3	4.3 4.4	10.13	5.63		8.6	1.53
d	4.9 4.8	4.90 4.9	0	9.3	4	5.3 5.2	11.03	5.73		9.7	1.33
					5	5.8 5.7	11.19	5.39		9.5	1.69
					6	6.2 6.1	11.72	5.52		def	.

	Cu	Magn	Cu	Magn
a	5.89	9.59	1.46	9.66
b	5.83	9.83	1.53	10.33
c	5.69	10.44	1.57	10.77
d	5.68	10.58	1.58	10.88

P.C.

	ScB	ScC	Diff
1	6.3 6.2		1.04
2	6.8 5.98	8.2	1.48
3	6.8 5.89	8.6	1.39
4	6.8 5.63	9.7	1.53
5	6.8 5.73	9.5	1.33
6	6.8 5.39	def	1.69

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Wednesday, March 14, 1917

Scale v

MC 11137 ~~4327~~ - Eurynia Comp. Stars
RA Pegasi P.C.

	ScBScC	ScBScC	a^2 ScBScC	ScBScC		ScBScC	PC
	1.2	5.0	1.1	5.9	a^3	2.3	
a	1.1	4.9	$a^2 b^2$ 1.0	5.8	$a^3 b^3$	2.2	7.2
		4.7	2.0			2.3	
b	B	4.6	$b^2 c^2$ 1.9	+ 7.0	$b^3 c^3$	2.2	7.2
		5.4	2.8			2.8	
c	B	5.3	$c^2 d^2$ 2.7	8.2	$c^3 d^3$	2.7	7.4
	1.9	6.8	4.4			3.6	
e	1.8	6.7	d^2 4.3	9.7?	d^3	~~2.7~~	8.8
	2.5						
f	2.4	7.7					
	2.6		Cu Mags	Cu Mags		Cu Mags	Cu Mags
g	2.5	7.4	a^2 ~~5.72~~ 6.22 7.32	1.43	7.33	a^3 6.22	8.52 1.24 8.44
	2.9						
h	2.8	8.7	b^2 ~~5.72~~ 6.22 8.22	1.28	8.28	b^3 6.22	8.52 1.24 8.44
	2.7						
k	2.6	8.2	c^2 6.21 9.01	1.05	9.25	c^3 6.21	9.01 1.21 8.61
	3.2						
l	3.1	8.6	~~d^2 6.15 10.55~~	~~0.48~~	~~10.18~~	d^3 6.18	9.88 0.86 9.66
	3.9						
m	3.8	9.2?	d^2=l 6.20 9.40	0.93	9.33		
	3.7						
n	3.6	9.2					
	5.8						
o	5.7	F					
	4.9						
p	4.8	9.9					

P.C.

	MC 4327	MC 6321	MC 11137		MC 4327	MC 6321	MC 11137		MC 11137 Diff. images
a^6	9.66	9.59	9.50	9.58 08 01 08	9.56	9.66	9.58	9.60 04 06 02	9.42
b^6	9.92	9.83	10.08	9.94 02 11 14	9.91	10.33	9.83	10.02 11 31 19	10.07
c^6	10.64	10.44	10.46	10.51 13 07 05		10.77	10.13	10.45 . 32 32	10.34
d^6	10.83	10.58	10.91	10.77 06 19 14	10.05	10.88		10.46 41 42	10.67

Weighted means

	BK: 198		
a^6	9.57 01 03 15	9.39	9.52 05 13
b^6	9.99 05 03 08	9.46	9.98 01 02
c^6	10.47 04 (02) 14 F	10.36	10.44 03 08
d^6	10.74 03 (28) 07 F	11.09	10.83 09 26

In taking final means I weighted the plates in this order: 5, 3, 1, 2, 4 i.e. - most weight on 5, next on 3, etc. from Ble 2, 9, 7 weight 5, 3, 1, 2, 4

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1917phae.proj.11614

Wednesday, March 14, 1917

Read Sheet 28

Scale V

MC 11137 – Emmonia Comp Stars

(Emmonia sig)

	P.C. ScBSeC		P.C. ScBSeC		Diff	ScBSeC		Diff	
a⁶	3.3 3.2		8.7	1	1.1 1.0 +	6.24	5.9 3.8	8.7	1.44
b⁶	3.9 3.8		9.1	2	(2.7) (2.6) 3.3 3.4	6.18 6.89		7.6	1.99 0.89 0.98
c⁶	4.3 4.2		9.6	3	4.0 3.9	6.13		9.7	0.43
d⁶	4.8 4.7		F.	4	5.0 4.9	6.03		F	
	Cu Mag	Cu Mag		5	5.0 4.9	6.19			
a⁶	6.20	9.58	0.88 9.58	6	6.0 5.9	5.72			
b⁶	6.18	10.08	0.73 9.83						
c⁶	6.16	10.46	0.53 10.13						
d⁶	6.11	10.91	. .						

+ Wrong star previously observed.

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Wednesday, March 14, 1917

Scale V

Eunomia Comp Stars - MC 11137

R Eunomia

	f	g
	ScBScC	ScBScC
a	3.3 3.2 3.50	3.7 3.6
b	3.80	3.8 3.7
c	4.4 4.3 4.40	
	5.3 5.00	5.7
e	6.6 6.65	6.9 6.6
f	6.0 6.15	6.3
g	5.9	6.2 7.6510
h	7. 7.7 7.6000	7.6
K	7.6	7.6
l	7.8 7.8000	7.8
m	8.6	8.8 8.7010
n	8.7 9.70	8.6
o	9.7 9.7000	F
p	9.6	9.8

	f	g		f	g
				ScBScC	ScBScC
a^2	5.0 4.9	5.10 4.9	a^3	6.5 6.55	6.01 6.6
a^2	4.9	4.8	a^3	6.4	6.5
b^2	6.3 6.40	1 6.5	b^3	6.7 6.7000	6.7
b^2	6.2	6.4	b^3	6.6	6.6
c^2	ScC 7.6 7.6000	ScC 7.6	c^3	6.8 6.90	1 7.0
d^2	9.0 9.05	01 9.1	d^3	6.7	6.9
				ScC 7.75	10 ScC
				7.8	7.7

	Cu Mag	Cu Mag
a^2	.	.
b^2	2.03	8.43
c^2	1.82	9.42
~~d^2~~	~~1.53~~	~~10.58~~
$d^2 = l$	1.78	9.58

	Cu Mag	Cu Mag
a^3	2.00	8.55
b^3	1.98	8.68
c^3	1.95	8.85
d^3	1.79	9.54

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Wednesday, March 14, 1917

Parallax 28

Eponnia Comp. 5 stars = NC 11137.

	f ScC	g ScC		f ScB	g ScB	Diff
a⁶	7.6	7.6000 7.6	1	5.2 5.1	5.1510 5.0	2.19
b⁶	8.3	8.4011 8.5	× 2	7.0 6.9	7.0000 7.0 6.9	2.68
c⁶	8.8	8.7510 8.7	3	8.8	8.7510 8.7	1.38
d⁶	8.9	9.15 ± 3 9.4?	4	9.4	9.4000 9.4	1.63
			5	9.7	9.7501 9.8	1.44
			6	F	F	

	Cu	Magn
a⁶	1.82	9.42
b⁶	1.67	10.07
c⁶	1.59	10.34
d⁶	1.52	10.67

10.55

March 20, 1917 - Wrong star previously measured.

	f ScC	g ScC	Diff
2.	7.8	7.8501 7.9	1.83

× Rejd.

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1917phae.proj.1161R

Friday March 16, 1917

Plate Sheet 42

Scale V
2:15

MC 11681 - Enneomia Comp 5 stars -
DM ref. eq.

	S ScB ScC	P.C. ScB ScC	(g) ScB ScC	(h) ScB ScC
1	2.5 2.4	7.5	6.7 6.6 6.75 01	6.8 6.7
2	2.7 2.6	8.2	6.8 6.7 6.80 00	6.8 6.7
3	2.9 2.8	8.3	7.10 6.9 7.00 00	7.0 6.9
4	4.1 4.0 4.25 12 4.4	9.8	8.7 8.70 00	8.7
5	4.7 4.6 4.65 10 4.6	9.8	8.8 8.75 10	8.7
6	5.8 5.7 5.70 11 5.7 6	F	9.4 9.45 01	9.5
7	6.0 5.9 6.10 11 6.2		10.0 9.90 11	9.8?
8	6.7 6.6 6.700 6.7		F	F

	Se Ca Magn	P.C.	Diff.
c⁴	2.3 5.36 7.66	7.7	Same as on p. 28 — 6.80
d⁴	2.6 5.42 8.02	7.6	6.40
e	3.0 5.51 8.51	8.3	.
f	3.8 5.53 9.33	9.1	7.65
g	3.7 5.55 9.25	9.2	.
h	3.8 5.53 9.33	9.6	.
K	5.0 5.11 10.11	.	9.20
l	5.4 4.93 10.33	.	9.45
g³	3.8 5.53 9.33	9.2	7.75
b³	3.7 5.55 9.25	9.3	7.65
e³	3.8 5.53 9.33	9.8	.
d³	3.9 5.52 9.42	.	.

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1917phae.proj.1161R

Friday, March 16, 1917

NC 11681 – Eumonia Comp S Pairs

				FC.			(g)		(h)		
	ScB	ScC		ScB	ScC						
a											
b											
c											
d											
			Cu Magn								
a	3.8 3.7	5.43	9.23	9.2	0.10	9.30	7.9	7.15 21	7.6	1.29	9.04
b	3.7 3.6	5.45	9.15	9.3	0.10	9.40	7.7	7.65 10	7.6	1.30	8.95
c	3.8 3.7	5.43	9.23	def.	9.8	0.12	9.92	def.	~~7.6~~	def.	.
d	3.9 3.8	5.42	9.32	F	.		F		F	.	.
a	2.3 2.2	5.42	7.72	7.7	0.20	7.90	6.8 6.7	6.80 00	6.8 6.7	1.31	8.11
b	2.6 2.5	5.48	8.08	7.6	0.19	7.79	6.4 6.3	6.40 00	6.4 6.3	1.29	7.69
e	3.0 2.9	5.51	8.61	8.3	0.13	8.43	def. S2C		def. S2C	.	.
f	3.8 3.7	5.43	9.23	9.1	0.10	9.20	7.6	7.65 01	7.7	1.29	8.94
g	3.7 3.6	5.45	9.15	9.2	0.10	9.30	def.		def.	.	.
h	3.8 3.7	5.43	9.23	~~def.~~ 9.6	0.10	9.70	def.		def.	.	.
k	5.0 4.9	5.18	10.18	F	.	.	9.2	9.20 00	9.2	1.11	10.31
l	5.4 5.3	5.06	10.46	F	.	.	9.3	9.45 21	9.6	1.07	10.52

+ Reject – see preceding page for readings from corrected curve.

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1917phae.proj.1161R

Friday, March 16, 1917

Plate Sheet 47

MC 11715 – Eumonia Comp 5 Pairs –
DM seq

	ScBScC	P.C. ScBScC	(g) ScBScC	(h) ScBScC
1	1.7 1.6	7.2	6.3 6.2 6.15 21	6.0 5.9
2	2.4 2.3	7.9	6.8 6.7 6.85 01	6.9 6.8
3	2.3 2.4	8.1	7.0 6.9 6.95 10	6.9 6.8
4	3.9 3.8	9.7	8.6 8.65 01	8.7
5	3.9 5.2	~~9.7~~ 9.6	8.7 8.70 06	8.7
6	5.1 5.4	F	9.4 9.50 11	9.6
7	5.3 6.2		9.4 9.60 22	F 9.8
8	6.1	F	F	F

Mags. Putnam Images (MC 11687 / MC 11715)

7.66 c^4	7.72	7.80	7.73 07 07	
8.02 d^4	8.08	8.38	8.20 18 18	
8.51 e	8.51	9.23	8.87 36 36	
9.33 f	9.23	8.77	9.05 28 28	
9.25 g	9.15	9.58	9.42 17 16	
9.33 h	9.23	9.82	9.58 25 24	
10.11 K	10.18	10.49	10.30 19 19	
10.33 l	10.46	10.57	10.45 12 12	
9.33 a^5	9.23	9.41	9.37 04 04	
9.25 b^5	9.15	9.66	9.46 21 20	
9.33 c^5	9.23	9.82	9.58 25 24	
9.42 d^5	9.32	10.08	9.75 33 33	

P.C. (MC 11687 / MC 11715)

7.90	8.16	8.03 13 13		
7.79	8.08	7.93 14 15		
8.43	8.96	8.70 27 26		
9.20	9.12	9.16 04 04		
9.30	9.50	9.40 10 10		
9.70	9.88	9.79 09 09		
.	9.98	9.98 . a		
.	.	.		
9.30	9.31	9.30 00 01		
9.40	9.69	9.54 14 15		
9.92	9.98	9.95 03 03		
.	.	.		

Diff (MC 11687 / MC 11715)

8.11	8.23	8.17 06 06		
7.69	7.97	7.83 14 14		
.	8.19	8.19 . a		
8.94	9.03	8.98 04 05		
.	8.96	8.96 . a		
.	9.21	9.21 . a		
10.31	10.30	10.30 01 00		
10.52	10.57	10.54 02 03		
9.04	9.04	9.04 00 00		
8.95	9.12	9.03 08 09		
.	9.72	9.72 . a		
.	.	.		

For means see f. 101

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Friday, March 16, 1917

MC 11715 – Emmonica Comp 5 stars

		ScB	ScC	F.C. ScB	ScC	(g) ScB	ScC	(h) ScB	ScC	Cw	Magn
c⁴	1.8 1.7	6.00	7.80	7.7	0.46	8.16	6.6 6.7	6.75	01	6.8 6.7	1.48	8.23
d⁴	2.4 2.3	5.98	8.38	7.6	0.48	8.08	6.3 6.4	6.45	01	6.5 6.4	1.52	7.97
e	3.3 3.2	5.93	9.23	8.6	0.36	8.96	6.6 6.7	6.70	00	6.7 6.6	1.47	8.19
f	2.8 2.7	5.97	8.77	8.8	0.32	9.12	7.7 ScC	7.70	00	7.7 ScC	1.33	9.03
g	3.7 3.6	5.88	9.58	9.2	0.30	9.50	7.6	7.60	00	7.6	1.36	8.96
h	4.0 3.9	5.82	9.82	9.6	0.28	9.88	7.9	7.90	00	7.9	1.31	9.21
K	4.8 4.7	5.69	10.49	9.7	0.28	9.98	9.3	9.10	22	8.9	1.20	10.30
l	4.6 4.8	5.67	10.57	F	.	.	9.5	9.40	11	9.3	1.17	10.57
a⁵	3.5 3.4	5.91	9.41	9.0	0.31	9.31	7.7	7.70	00	7.7	1.34	9.04
b⁵	3.8 3.7	5.86	9.66	~~9.1~~ X	9.40	29	69 7.8	7.80	00	7.8	1.32	9.12
c⁵	4.0 3.9	5.82	9.82	9.7	0.28	9.98	8.4	8.50	11	8.6	1.22	9.12
d⁵	4.3 4.2	5.78	10.08	~~F~~ X	.	.	—			—	.	.

4:00

X mistake

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Tuesday, March 20, 1917

Examination of sequences for Eunomia in regard to distance from center.

MC4357 — All star images { 5 to 10 mm. from center.
MC6321 — " " " { " " "
MC11137 — " " " { 10 mm " "

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V

9:35 MF552 - ~~Antigone~~ & ~~Comp Stars~~ Polar Sequence

	SaBScC		Diff		SaBScC		Cu	Magn
10	4.9 4.8	4.9	4.9000	4.12	1	7.7	7.6 (7.6510)	2.88	10.53
11	5.9 5.8	6.2	6.0512	3.50	2	7.7	(8.7000)	2.88	10.58
12	6.7 6.6	6.5	6.6014	3.26	3	8.7	8.7	1.85	10.55
13	6.8 6.7	6.9	6.8501	3.45	4	i		.	.
14	6.9 6.8	6.9	6.9000	3.75	5	8.8		1.79	10.59
15		7.7	7.7000	3.38	6	8.1		.	.
16		7.8	7.8000	3.60	7	i		.	.
17		7.7	7.8012	3.83	8	9.0		1.58	10.58
18		8.3	8.3501	3.71	9	8.2	(7.8021)	2.17	10.37
					10	7.7	7.9	2.99	10.19
					11	8.6		2.22	10.82

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1917phae.proj.1161R

Tuesday March 27, 1917

Scale v

Aft. cor. +.16.

MF552 - Antigone (a), Conj Stars (c) - seq. (d) ~~(e)~~.

	~~SeBScC~~	~~SeBScC~~	~~SeBScC~~	~~SeBScC~~
1	7.3	7.7	8.1	8.2
2	7.7	8.1	8.2	8.7
3	8.6	8.5	8.8	9.2
4	7.3	7.3	7.7	7.8
5	8.7	8.8	9.2	9.5
6	7.9	7.9	8.3	8.7
7	7.3	7.4	i	sus.
8	def	8.9	def.	9.4
9	7.9	8.3	8.8	8.8
10	7.6	7.7	8.3	8.4
11	7.8	8.0	8.7	8.7

	Mean of ~~4~~ 7 & 10.	Cu	Magn.	Cor. Magn.
a	7.45 ± 2	3.50	10.95	11.11
b	7.55 ± 2	3.53	11.08	11.24
c	8.30 - a	3.74	12.04	12.20
d	8.40 - a	3.78	12.18	12.34
a^2	6.80 00	3.45	10.25	10.41
b^2	7.35 01	3.48	10.83	10.99
c^2	7.60 00	3.53	11.13	11.29
d^2	8.10 ± 2	3.67	11.77	11.93

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1917phae.proj.1161B

Tuesday, March 27, 1917

MF 552 - Antigone Comp. Stars - Seq. 2.
(a²) (b²) (c²) (d²)

	ScBScC	ScBScC	ScBScC	ScBScC
1	6.8 6.7	7.6	7.7	8.5
2	6.9 6.8	7.5	7.8	8.4
3	7. 7.8	8.6 8.5 8.4	8.4	9.6
4	6.1 6.6	i	i	7.8
5	8.1	8.7	8.9	9.2 8.8 8.8
6	7.6	7.8	7.9	8.8
7	6.8 6.7	7.3	7.6	7.9
8	8.3	8.9	9.0	9.6
9	7.8	8.2	8.4	8.9
10	6.8 6.7	7.4	7.6	8.3
11	7.6	8.2 8.1 8.1	~~7~~ 8.2 8.0 7.9	8.9

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1917phae.proj.1161R

Tuesday, March 27, 1917

MF552 – Antigone & Polar Sequence

	ScB	ScC
1	7.6	
3	8.7	
10	7.9	

	ScB	ScC
10	4.9 4.8	
11	6.2 6.1	
12	6.5 6.4	
13	6.9 6.8	6.9 6.8
14	~~7.6~~	~~7.6~~ ScC
15		7.7
16		7.8
17		7.9
18		8.4

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V

MF553 – Antigone + Comp 5 Stars –
(Centigone) (a³) (b⁵) (c³) (d²)

Mag	Mag		Sc B Sc C	Sc B Sc C	Sc B Sc C	Sc B Sc C	Sc B Sc C
11.01	1.91	1	9.1 8.55 01	7.7	8.6	8.4	9.2
10.87	2.32	2	8.5 8.6	7.4	7.9 8.60 11	8.4 8.80 00	8.8
10.72	1.62	3	8.9 9.10 22 9.3	8.2	8.9 8.7	8.8 8.8	9.5
10.67	3.02	4	7.6 7.65 01 7.7	6.7 6.6	7.6 7.65 01 7.7	7.2 × 7.6	7.9
10.90	1.70	5	9.2	7.9	8.8	8.8	9.6
10.86	2.26	6	8.6	7.2	8.1	7.9	8.8
~~10.16~~ 10.95	~~2.86~~ 2.65	7	~~7.3~~	6.8 6.7	7.7	7.8	8.7
"	"	8	7.9	8.7	9.3	9.5	E
"	"	9	9.8	7.7	8.7	def	def
11.01	2.61	10	8.4	7.3	8.3 × 7.9	8.3 × 8.6	8.6
"	"	11	Surf.	7.8	8.4	8.6	9.2

+ Rejected - certainly wrong

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V

MFSS3 – Antigone

ScBScC

2 8.6

3 9.3

4 7.7

11:30

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1917phae.proj.1161B

Tuesday, ~~Wednesday~~, March 27, 1917

Scale V

12:00 MF554 – Antigone & Comp/ 5 Jets

(Antigone) (a²) (b³) (c²) (b²c)

Magn			ScBScC	~~ScBScC~~	~~ScBScC~~	ScBScC	~~ScBScC~~
.	.	1	Def	7.9	8.8	8.8	9.7
10.38	1.78	2	8.6	7.8	8.8	8.9	9.4
11.02	3.57	3	7.6 7.3 7.45 21 8.70 00	6.0 5.9	6.9 6.8	6.9 6.8	7.7
10.58	1.88	4	8.7 8.7	7.7	8.4	8.9	9.4
10.56	2.76	5	7.8 7.8 7.80 00	6.8 6.7	7.9	7.8	8.6
.	.	6	i	i	i	i	i
10.81	1.81	7	9.0	7.4 7.0	8.6	8.7	F
10.48	2.78	8	7.7	6.9 6.3	7.7	7.7	8.6
10.89	3.29	9	7.6	6.2 6.4	7.1	7.3	7.9
10.81	3.11	10	7.7	6.3	7.6	7.3	7.9
10.58	2.58	11	8.0	7.1	7.9	7.9	8.8
10.79	1.59	12	9.2	8.2	8.8	8.9	9.8
10.51	1.81	13	8.7	7.8	8.7	8.6	9.6

	(Antigone)														
1				7.9	3.28	11.18	8.8	.		8.8	.		9.7	.	
13	8.7			7.8	3.28	11.08	8.7	.		8.6	.		9.6	.	
	Sc	Cu×	Magn		Cu×	Magn		Cu×	Magn		Cu×	Magn		Cu×	Magn.
2	8.6	.	.	7.8	3.28	11.08	8.8	.	.	8.9	.	.	9.4	.	.
4	8.7			7.7	3.28	10.98	8.4			8.9			9.4		
3	7.45	3.30	10.75	6.0	3.49	9.49	6.9	3.38	10.28	6.9	3.38	10.28	7.7	3.29	10.99
5	7.8	3.28	11.08	6.8	3.38	10.18	7.9	3.27	11.17	7.8	3.28	11.08	8.6	.	.
9	7.6	3.29	10.89	6.3	3.44	9.74	7.1	3.34	10.44	7.3	3.31	10.61	7.9	3.28	11.18
6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
7	9.0	.	.	7.4	3.31	10.71	8.6	.	.	8.7	.	.	F	.	.
8	7.7	3.29	10.99	7.0	3.37	10.37	7.7	3.29	10.99	7.7	3.29	10.99	8.6	.	.
10	7.7	3.29	10.99	6.4	3.43	9.83	7.6	3.29	10.89	7.3	3.32	10.62	7.9	3.28	11.18
11	8.0	3.26	11.26	7.1	3.35	10.45	7.9	3.28	11.18	7.9	3.28	11.18	8.8	.	
12	9.2	.	.	8.2	3.23	11.43	8.8	.	.	8.9	.	.	9.8	.	
9	7.6	3.29	.												

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1917phae,proj.1161R

Tuesday March 7, 1917

Scale v

MFSS4 - Antigone

ScBScC

z	
3	2.3
4	8.7
5	1.8

12:30

x Curve readings here read from curve for exp. 9

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V

12:35 M555. Centigrade & Comp Stars

		(Centigrade)	(a²)	(A²)	(c²)	(L²)
Magn	Cu	ScBScC	ScBScC	ScBScC	ScBScC	ScBScC
10.79	3.57	1 7.2	6.0 5.9 6.9 6.8	6.9 6.8	6.9 6.8	7.9
10.92	2.72	2 8.2	6.8	7.6	7.8	8.7
10.95	3.30	3 7.7 7.6 7.6	6.3 6.2	6.9 6.8	7.0 6.9	8.2
10.77	3.92	4 6.9 6.8 6.8 6.8	5.3 5.4	6.3 6.4	6.5 6.4	7.3
11.35	2.55	5 8.9 8.7 8.5	6.8 7.2	7.9	8.1	8.2
10.84	3.04	6 7.8	6.7	7.0	7.6	8.2
10.58	3.78	7 6.8 6.7	5.8 5.7	6.7 6.6	6.8 6.7	7.7
10.58	3.68	8 6.9 6.8	5.9 5.8	6.8 6.7	7.0 6.9	7.6
11.03	3.23	9 7.8	6.8 6.7	7.3	7.6	7.8
10.74	1.94	10 8.8	7.6	8.2	8.2	9.5
10.92	3.32	11 7.6	6.0 5.9	7.0 6.9	6.9 6.8	7.7

Sc	Cu	Magn				
2	8.2	3.52	6.9 3.75	7.6 3.62	7.8	8.7
6	7.8	3.59	6.8 3.78	7.0 3.72	7.6	8.2
7	6.8	3.78	5.8 3.96	6.7	6.8	7.7

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Tuesday, November 27, 1917

Scale V

MF555- Antigram

			(d)			(129)	(a)		(h)		(c)	
	ScB	ScC	Cu	Magn		Cu*	Magn	Cu*	Magn	Cu*	Magn	Cu*	Magn
3	6.8	7.6	3.59	11.49	1	3.69	10.89	3.92	9.92	3.74	10.64	3.74	10.64
4	6.7		.	.	2	3.52	11.72	3.75	10.65	3.62	11.22	3.59	11.39
5		8.7	3.52	11.72	3	3.60	11.25	3.87	10.17	3.74	10.64	3.72	10.72
			3.78	11.08	4	3.58	10.43	.	.	3.83	10.33	3.83	10.33
			.	.	5	.	.	3.69	10.89	3.58	11.48	3.53	11.63
			3.52	11.72	6	3.59	11.39	3.78	10.58	3.72	10.72	3.62	11.22
			3.60	11.30	7	3.77	10.57	3.96	9.76	3.79	10.49	3.78	10.58
			3.62	11.22	8	3.74	10.64	3.94	9.84	3.78	10.58	3.72	10.72
			3.59	11.39	9	3.59	11.39	3.78	10.58	3.68	10.98	3.62	11.22
			.	.	10	.	.	3.62	11.22	3.52	11.72	3.62	11.72
			3.60	11.30	11	3.62	11.22	3.92	9.92	3.72	10.72	3.74	10.64

1:00

x Curve readings here read from curve for eq. 7.

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V
2:45

MF 558 - Antigone + Comp. 5 stars.
(Antigone) (a²) (b²) (c²) (d²)

Magn	Cu		ScBScC	ScBScC	ScBScC	ScBScC	ScBScC
10.57	2.67	1	7.9	6.4 6.7 6.0	6.7 7.7	6.8 7.9	8.8
11.07	3.67	2	7.4	5.9	6.6	6.7	6.9 7.7
10.53	4.13	3	6.4 6.3	5.7 5.6	6.9 6.4	6.3 6.2	6.8
10.73	2.43	4	8.3 8.4 8.2	7.4	7.9	7.9	8.8
10.50	3.40	5	7.0 7.1 6.9 7.2	6.4 6.3	7.0 6.9	6.9 6.8	7.7
10.52	3.87	6	6.6 6.5 6.7	5.8 5.7	6.7 6.6	6.8 6.7	7.3
10.10	3.90	7	6.8 6.7	5.8 5.7	6.7 6.6	6.7 6.6	9.3 ?
10.38	3.18	8	7.2	6.5 6.4	7.6	7.5	7.6 see f.87
10.69	2.09	9	8.6	7.6	8.2	8.2	9.2
10.42	3.12	10	6.7 6.6	5.8 5.7	6.8 6.7	6.8 6.7	7.8
10.41	2.21	11	8.7	7.6	8.2	8.4	8.9
10.66	1.86	12	8.8	7.9	8.7	8.7	9.4

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1917phae.proj.1161R

Tuesday, March 27, 1917

Scale V

MF556 – Autograph

			SoB SeC		Cu	Magn	Cu	Magn	Cu	Magn	Cu	Magn	Cu	Magn
4		8.2	1		.	.	3.88	10.68	.	.	.	.	.	.
5	6.7	7.2	2		3.88	11.28	3.89	9.89	3.88	10.58	3.87	10.67	.	.
6	6.6		3		3.88	10.28	.	.	3.88	10.38	3.89	10.19	3.88	10.78
			4		.	.	3.88	11.28	.	.	.	.	.	.
			5		3.88	10.98	3.88	10.28	3.88	10.88	3.87	10.77	.	.
			6		3.88	10.53	.	.	3.87	10.57	3.88	10.68	3.88	11.18
			7		3.88	10.68	.	.	3.87	10.57	3.88	10.58	.	.
			8		3.87	11.07	3.88	10.38	.	.	.	.	.	.
			9		.	.	.	.	.	.	.	.	.	.
			10		3.87	10.57	.	.	3.87	10.67	3.88	10.68	.	.
			11		.	.	.	.	.	.	.	.	.	.
			12		.	.	.	.	.	.	.	.	.	.

3:30

x The curve readings here were read from the curve for exposure 6.

1917phae.proj.1161R

Wednesday, March 28, 1917

Scale II

10:55 MF557 - Polar Sequence & Antigone

		Polar Sequence Sc I	Polar Sequence Sc II	Diff	Antigone Sc I	Antigone Sc II	Cu	Magn
58	10	5.7	5.7	3.32		8.7 5 10		
68	11	6.7	6.7	2.85	1	8.8 8.7	1.79	10.64
68	12	6.8	6.75 10	3.11	2	7.7 7.70	2.96	10.66
	13	7.7	7.6	2.65	3	8.9 8.9 8.90 00	1.79	10.69
	14	7.7	7.8	2.90	4	8.3 8.3 8.30 00	2.51	10.81
	15	8.2	8.5	2.73	5	7.6 7.7 7.65 01	3.13	10.78
	16	8.6	8.6	2.80	6	7.8 7.8 7.80 00	2.96	10.76
	17	8.6	8.7	2.98	7	8.6 8.7 8.65 01	2.42	11.07
	18	8.7	8.9	3.26	8	9.2 9.3 9.25 01	1.60	10.90
					9	7.8 7.8 7.80 00	2.13	10.53
					10	8.9 9.2 9.05 12	1.64	10.69
					11	8.3 8.4 8.35 01	2.36	10.71
					12	7.6 7.7 7.65 01	2.93	10.58
					13	9.2 9.2 9.20 00	1.38	10.58
					14	8.5 8.6 8.55 01	2.34	10.89

There is no correction to Sc I of Scale II.

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1917phae.proj.1161R

Wednesday, March 28, 1917

Scale U

acf. con. +.17

MF557 - Antigone Conj. Stars - Seq. 1.
(a) (b) (c) (d)

	~~ScBScCSc2~~	~~ScBScCSc2~~	~~ScBScCSc2~~	~~ScBScCSc2~~
1	i	8.7	8.9	8.9?
2	7.6	7.7	7.9	7.9
3	8.5	8.8	8.8	8.9
4	7.7	8.2	8.6	8.6
5	7.3	7.7	8.1	7.9
6	7.6	7.8	8.2	8.3
7	7.9	8.2	8.6	8.7
8	8.7	9.1	8.9	9.4
9	7.6	7.8	8.4	8.3
10	8.8	8.9	8.9	9.6
11	7.9	8.6	8.7	8.8
12	7.7	7.8	7.9	8.3
13	8.9	9.2	9.3	9.6
14	8.5	8.6	8.7	8.8

	Mean of seq. 2, 5, 6, 12	Cu	Magn	Cor. Magn
a	7.55 1 3 0 2	2.78	10.33	10.50
b	7.75 0 1 0 1	2.76	10.51	10.68
c	8.02 1 1 2 1	2.76	10.78	10.95
d	8.10 2 2 2 2	2.77	10.87	11.04
a^2	6.65 0 0 1 1	3.01	9.66	9.83
b^2	7.42 0 1 0 2	2.80	10.22	10.39
c^2	7.78 1 1 0 1	2.76	10.54	10.71
d^2	8.18 0 3 1 1	2.78	10.96	11.13

The magns. for seq. 2 on this page were used in making plottings on sheets.

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1917phae.proj.1161R

Wednesday, March 28, 1917

	MESS 1 – Antigone (a²)		Conj. Stars – Seq. (b²)	
	~~ScBScESc2~~	~~ScBScESc2~~	~~ScBScESc2~~	~~ScBScESc2~~
1	i	8.7	8.8	9.3
2	6.6	7.4	7.9	X2 8
3	7.9	8.8	8.5	9.4
4	6.8	8.0	8.1	8.8
5	6.6	7.3	7.7	7.9
6	6.7	7.4	7.8	8.3
7	6.9	7.9	8.2	8.7
8	7.9	8.7	9.1	9.4
9	8.1	7.7	7.8	8.3
10	8.9	8.9	8.9	64.
11	7.7	8.2	8.3	8.7
12	6.7	7.6	7.7	8.3
13	8.2	9.1	8.8	9.8
14	7.4	8.7?	8.4	8.8

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1917phae.proj.1161R

Wednesday, March 28, 1917

MF557 - Antigone & Polar Sequence

(Antigone)

~~SeB 50C~~ Sc 2

1	8.7
2	i7.7?
3	~~7.7~~ 8.9
4	~~8.9~~ 8.3
5	7.7
6	7.8
7	8.7
8	9.3
9	7.8
10	9.2
11	8.4
12	7.7
13	9.2
14	8.6

~~Sc B 50C~~ Sc 2

10	~~5.8~~ 5.7 ~~6.8~~
11	6.7 ~~6.8~~
12	6.7
13	7.6
14	7.8
15	8.5
16	8.6
17	8.7
18	~~8.7~~ 8.9

+

	(129)		(a)		(b)		(c)		(d)	
	+ Cu	Magn	+ Cu	Magn	+ Cu	Magn	+ Cu	Magn	+ Cu	Magn
1	.	.	~~3.11~~	.	.	.	.	.	.	.
2	2.98	10.68	3.11	9.71	3.02	10.42	2.96	10.86	2.91	11.11
3	.	.	2.95	10.86	.	.	.	.	.	.
4	2.89	11.19	3.09	9.89	2.93	10.93	2.92	11.02	.	.
5	2.98	10.63	3.11	9.71	3.03	10.33	2.98	10.68	2.95	10.85
6	2.96	10.76	3.10	9.80	3.02	10.42	2.97	10.77	2.89	11.19
7	.	.	3.08	9.98	2.94	10.84	2.90	11.10	.	.
8	.	.	2.94	10.84	.	.	.	.	.	.
9	2.96	10.76	3.05	10.15	2.98	10.68	2.97	10.77	.	.
10	.	.	2.95	10.85	.	.	.	.	.	.
11	.	.	2.98	10.68	2.90	11.10	2.89	11.19	.	.
12	2.98	10.63	3.10	9.80	2.99	10.59	2.98	10.68	2.89	11.19
13	.	.	2.90	11.10	.	.	.	.	.	.
14	.	.	3.02	10.42	2.98	10.68	.	.	.	.

12/25

+ Cu readings read from curve for lens found 6.

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1917phae.proj.1161R

Thursday, March 29, 1917

Scale V

10:45 MF 547 - Inner and Conj. 5 Pairs.

(Inner) (a^2) (f^2) (o^2) (d^2)

Magn	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C
Res.			9.7				8.4		9.2				9.4				F			
60 9.66			7.7	1.96			7.3		7.9				7.9 sw/.87				8.7			
48 9.78	7.0		6.9	2.78	6.1		6.0	ref. .88	8.1				7.6	7.4			7.6				7.7 sw/.87	
27 10.53	6.7		6.6	3.83			5.7		6.4				6.3				6.6		6.8	
17 10.43			8.2	3.18			7.7		7.9				8.2				8.5			
14 10.40			7.7	2.75	6.7		6.6		7.0 sw/.87				7.7				7.8			
30 10.56	6.9		6.8	3.66			5.9		6.6				6.8				6.9		7.2	
39 9.87	6.7		6.6	3.17	6.0		5.9		6.7				6.9				6.8		6.9 sw/.87	
26 10.00			7.4	2.60	6.9		6.8		7.4				7.6				7.7			
03 10.29			8.6	1.69	6.9 sw/.87		6.8	6.2	8.2				8.6				8.8 sw/.87			
16 10.10	6.8		6.7	3.30			6.1		6.7				6.9				7.3			
12	def.				6.9		7.9													
23 10.49			7.7	2.79	6.3		7.8		8.3				8.7				8.9			
38 10.64	7.0		6.9	3.64	6.2				6.8	7.6			6.9	7.6			7.9			
56 10.82			8.9	2.92			8.0		6.7				6.8				7.0			
07 10.33			7.6	2.73	6.9		6.8		8.4				8.6				8.9			
25 10.01			7.9	2.11			7.6		7.2				7.7				7.9			
38 9.91									7.7				8.0				8.4			
4 10.16																				

10.26 Mean Magn.

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1917phae.proj.1161R

Thursday March 29, 1917

Scale V

MF-547-I

	Sc B	Sc C	(14) Cu	(14) Magn	(a) Cu	(a) Magn	(b) Cu	(b) Magn	(c) Cu	(c) Magn	(d) Cu	(d) Magn
4	6.7	6.6										
5	8.3											
6	7.6											
1			.	.	.	.	.	.	.	.	.	.
2			3.22	10.92	3.20	10.50	.	.	.	.	.	.
3			3.18	10.18	3.13	9.23	3.20	10.60	3.22	10.82	~~3.23~~	.
4			3.17	9.87	.	.	3.14	9.54	3.16	9.76	3.18	9.98
5			.	.	3.23	10.93	.	.	.	.	.	.
6			3.22	10.87	3.17	9.87	3.23	10.93	3.23	10.93	3.22	11.02
7			3.18	10.08	.	.	3.17	9.87	3.18	9.98	3.19	10.39
8			3.17	9.87	.	.	3.18	9.98	3.18	10.08	.	.
9			3.20	10.60	3.18	10.08	3.20	10.60	3.22	10.82	3.22	10.92
10			.	.	.	.	.	.	.	.	.	.
11			3.17	9.97	3.13	9.33	3.17	9.87	3.18	10.08	3.20	10.50
12			.	.	3.24	11.04	.	.	.	.	.	.
13			3.23	10.93	3.18	10.08	3.22	10.82	3.22	10.82	.	.
14			3.19	10.19	3.13	9.43	3.18	9.98	3.18	10.08	3.18	10.18
15			.	.	.	.	.	.	.	.	.	.
16			3.16	10.76	3.18	10.08	3.19	10.39	3.23	10.93	.	.
17			.	.	3.22	10.82	3.23	10.93	.	.	.	.

12:00

+Cesium readings read from curve for exposure 8.

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Friday, March 30, 1917

Scale V

2:20 M 548 – Inner & Comp. Stars –

Polar Sequence

	Sc	B Sc	C	Mean
9	4.8	4.7		4.85
10	5.3	5.3		5.40
11	Sup.	Sup.		.
12	6.6	6.3		6.55
13	6.7	6.7		6.80
14	7.4	7.2		7.30
15	7.6	7.8		7.70
16	7.9	7.9		7.90
17	8.2	7.9		8.05
18	8.5	8.3		8.40

(Inner)

	Sc	B Sc	C	Mean	Cu	Magn
1	6.2	6.2		6.30	3.37	9.67 (27)
2	5.9	5.9		6.00	3.82	9.82 (12)
3	6.8	6.7		6.85	3.18	10.03 (09)
4		7.8	7.8	7.80	2.27	10.07 (13)
5		6.6	6.4	6.60	3.83	10.43 (49)
6		7.8	7.8	7.80	2.25	10.05 (11)
7	6.8	6.8		6.90	3.04	9.84 (00)
8	6.2	5.9		6.15	3.57	9.72 (22)
9		7.8	7.8	7.80	2.13	9.93 (01)
10	6.8	6.9		6.95	3.08	10.03 (09)
11	6.2	5.9		6.15	3.57	9.72 (22)
12	6.8	6.8		6.90	2.91	9.81 (13)

	(14) + Cu	(14) Magn	(a) + Cu	(a) Magn	(b) + Cu	(b) Magn	(c) + Cu	(c) Magn	(d) + Cu	(d) Magn
1	3.53	9.83	3.64	9.34	3.59	9.59	3.49	9.99	3.43	10.23
2	3.59	9.59	.	.	3.68	9.28	3.62	9.42	3.59	9.59
3	3.42	10.27	3.59	9.59	3.49	9.99	3.46	10.16	3.39	10.39
4	3.23	11.03	3.43	10.23	3.39	10.39	3.29	10.79	3.21	11.11
5	3.48	10.08	3.66	9.36	3.62	9.42	3.55	9.75	3.53	9.83
6	3.23	11.03	3.40	10.40	3.31	10.71	3.27	10.97	3.21	11.11
7	3.41	10.31	3.53	9.83	3.47	10.17	3.43	10.23	3.39	10.39
8	3.57	9.72	3.64	9.34	3.62	9.42	3.59	9.59	3.51	9.91
9	3.23	11.03	3.38	10.48	3.27	10.97	3.26	10.96	3.21	11.11
10	3.40	10.35	3.47	10.17	3.43	10.23	3.43	10.23	3.39	10.39
11	3.57	9.72	3.64	9.34	3.61	9.51	3.53	9.43	3.47	10.17
12	3.42	10.32	3.53	9.83	3.41	10.31	3.41	10.31	3.29	10.79

9.93 Mean mag.

+ Cu reading read from curve for exposure 11.

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Friday, March 30, 1917

@ 1 con. +.16

MF548 - Irene Comp. Stars - seq. 1

	(a) ScBScC	(b) ScBScC	(c) ScBScC	(d) ScBScC
1	5.7 5.6	6.0 5.9	6.5 6.4	6.8 6.7
2	5.0 4.9	5.6 5.5	5.8 5.7	6.0 5.9
3	6.0 5.9	6.5 6.4	6.7 6.6	7.0 6.9
4	6.8 6.7	7.0 6.9	7.5	7.9
5	5.7 5.6	5.8 5.7	6.2 6.1	6.3 6.2
6	7.0	7.4	7.7	7.9
7	6.3 6.2	6.7 6.6	6.8 6.7	7.0 6.9
8	5.7 5.6	5.8 5.7	6.0 5.9	6.4 6.3
9	7.1	7.7	7.7	7.9
10	6.7 6.6	6.8 6.7	6.8 6.7	7.0 6.9
11	5.7 5.6	5.9 5.8	6.3 6.2	6.7 6.6
12	6.3 6.2	6.9 6.8	6.9 6.8	7.5

	Means Eq. 1, 2, 8, 11	Cu	Magn.	Cor. Magn.
a	5.47 ± .11	3.64	9.11	9.27
b	5.77 ± .01	3.56	9.33	9.49
c	6.03 ± .03	3.48	9.51	9.67
d	6.37 ± .03	3.41	9.78	9.94
f²	6.27 .001	3.43	9.70	9.86
c²	6.70 ± .01	3.37	10.07	10.23
d²	7.43 ± .13	3.39	10.82	10.98

The magnitudes on this page for seq. 1 were used in making plotting sheets

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Friday March 30, 1917

$a^2 = a$
8.51

MF548 - Inner Comp. Stars - seq. 2
(b^2) (a^2) (b^2)

		ScBScC (b^2)	ScBScC (a^2)	ScBScC (b^2)	
5.7	1	6.7 6.6	6.7 6.6	7.7	
5.0	2	6.3 6.2	6.6 6.5	7.3	
6.0	3	6.9 6.8	6.9 6.8	7.9	
6.8	4	7.7	7.9	8.8	
5.7	5	6.3 6.2	6.3 6.2	7.1	
7.0	6	7.9	7.9	8.6	
6.3	7	6.9 6.8	7.0 6.9	7.8	
5.7	8	6.3 6.2	6.7 6.6	7.3	Mch. 31
7.1	9	7.8	7.9	8.0	8.9
6.7	10	6.9 6.8	7.0 6.9	7.3	8.2
5.7	11	6.2 6.1	6.8 6.7	6.0 5.9	7.7
6.3	12	6.9 6.8	7.6	6.9 6.8	8.1

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Friday, March 30, 1917

MF548 - Inner & Polar Seq

	(Inner) ScBScC		(Polar Seq.) ScBScC
	6.3		4.8
1	6.2	9	5.7
	6.0		5.4
2	5.9	10	5.3
	6.8	11	sat.
3	6.7		6.4
4	7.8	12	6.3
	6.3		6.8
5	6.4	13	6.7
6	7.8	14	7.2
	6.9	15	7.8
7	6.8	16	7.9
	6.0	17	7.9
8	5.9	18	8.3
9	7.8		
	7.0		
10	6.9		
	6.0		
11	5.9		
	6.9		
12	6.8		

3:30.

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Friday, March 30, 1917

Scale V
3',35

NF 550 – Pallas + Comp. Stars.
(Pallas) (a) (L) (α) (δ)

Images hazy

	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C
1	6.5 6.4 6.0		6.7	6.60	1	5.9 3.8 5.7	Mult. 3T	5.6	1	5.752	1	5.9 5.8	?	6.4 6.3 6.9 6.8		7.6
2	5.9	6.5	6.0	6.00	00	5.6						6.7		5.9		6.7
3	5.0 4.9	5.8	5.3	5.15	12	4.4 4.3						5.7		5.8		6.6
4	3.9 3.6	4.7	3.9	3.90	00	3.6 3.5						4.7 4.6		5.4 5.3		5.9 5.8
5	6.8 6.7	6.8		6.80	00	5.9 5.8						6.7 6.6		6.8 6.7		7.5
6	5.5 5.4	5.8		5.65	12	4.7 4.6						5.7 5.6		5.9 5.8		6.9 6.8
7	3.9 3.8	4.4	4.15	4.02	1	3.7 3.6						4.7 4.6		5.3 5.2		6.4 6.3
8	4.8 4.7	4.8		4.80	00	3.8 3.7						4.8 4.7		5.8 5.7		6.8 6.7
9	5.8 5.7	5.9		5.85	01	4.9 4.8						5.9 5.8		6.8 6.7		7.0 6.9
10	6.9 6.8	7.0		6.95	01	6.0 5.9						7.0 6.9		7.7 7.6		7.9
11	4.9 4.8	4.8		4.85	10	3.7 3.6						4.7 4.6		5.7 5.6		6.8 6.7
12	6.9 6.8	7.0		6.95	01	6.2 6.1						7.0 6.9		7.7 6.1		7.9 7.0
13	5.8 5.7	5.9		5.85	01	4.9 4.8						5.9 5.8		6.0		6.9

	Sc	Cu	Magn
1	6.60	1.87	8.47
2	6.00	1.39	7.39
3	5.15	2.54	7.69
4	3.90	3.51	7.41
5	6.80	1.54	8.34
6	5.65	2.49	8.14
7	4.02	3.45	7.47
8	4.80	3.20	8.00
9	5.85	2.13	7.98
10	6.95	1.09	8.04
11	4.85	3.21	8.06
12	6.95	1.01	7.96
13	5.85	2.30	8.15

Mean 7.93 54 54 24 52 41 21 46 07 05 11 13 03 22

Note - The residuals from the mean for this date are large, due to the large, hazy character of the images.

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Friday, March 30, 1917

Plot Sheet 1

Scale V

MF 550 — Pallas

	Sel		July 31
1.	6.7		6.7
2	6.2 R*		6.0
3	5.8 R*		5.3
4	4.7 R*		3.9
5	6.8 6.7		
6	5.8 5.7		
7	4.4 4.3	4.1532	3.9
8	4.8 4.7		
9	5.9 5.8		
10	7.0 6.9		
11	4.8 4.7		
12	7.0 6.9 6.9		
13	3.8		

* Rejected - evidently a confusion in numbering

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Friday. March 30. 1917

Scale V

MF551 — Pallas + Comp (a) (b) Stars (c) (d)
(Pallas)

	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C
1	3.8	3.7	3.8	3.8000	3.7	3.7			4.0	3.9			4.9	4.8	5.8	5.7
2	5.9	5.8	6.0	5.9501	5.6	5.5			6.0	5.9			6.8	6.7	7.0	6.9
3	5.0	4.9	4.9	4.9510	4.4	4.3			5.2	5.1			5.8	5.7	6.8	6.7
4	4.3	4.4	4.5	4.5000	3.8	3.7			4.3	4.2			5.0	4.9	5.8	5.7
5	.	.	.		3.7	3.6			.	.			4.9	4.8	5.3	5.2
6	5.1	5.0	5.4	5.2512	4.8	4.7			5.0	4.9			5.9	5.8	6.8	6.7
7	6.7	6.6	6.7	6.7000	5.9	5.8			6.7	6.6			6.9	6.8	.	.
8	6.5	6.4	6.6	6.5501	3.8	3.7			4.5	4.4			4.9	4.8	6.0	5.9
9	5.7	5.6	5.9	5.8041	5.9	5.8			6.7	6.6			6.9	6.8	7.8	7.7
10	4.6				4.8	4.7			5.8	5.7			6.0	5.9	6.7	6.6
11	.	.	.		.	.			.	.			.	.	.	.
12	7.0	6.9	7.0	7.0000	6.3	6.2			7.6	7.5			8.3	8.2	8.2	8.1
13	6.9	6.6	6.9	6.8041	5.9	5.8			7.0	6.9			7.8	7.7	7.6	7.5

	Sc	Cu	Magn
1	3.80	3.29	7.09
2	5.95	1.86	7.81
3	4.95	2.79	7.74
4	4.50	3.53	8.03
5	.	.	.
6	5.25	3.20 (3.71)	8.45 (7.96)
7	6.70	1.61	8.31
8	.	.	.
9	6.55	1.42	7.97
10	5.80	2.41	8.21
11	.	.	.
12	7.00	0.72 (1.19)	7.72
13	6.80	1.19 (2.61)	7.99

Mean 7.93 84 12 19 10 .. 52 38 .. 04 28 .. 21 06

Cor. mean 7.93 34 12 19 10 .. 03 38 .. 04 28 .. 21 06

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Friday. March 30. 1917

Scale V

Flat Sheets 1 & 2.

MF551 - Pallas

	Sc	B	Sc	C
1	3.7	3.8		
2	5.9	6.0		
3	4.8	4.9		
4	4.4	4.5		
5	.	1		
6	5.3	5.4		
7	6.6	6.7		
8	.	1		
9	6.5	6.6		
10	5.8	5.9		
11	.	1		
12	6.9	7.0		
13	6.8	6.9		

4:40

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Saturday, March 31, 1917

Sch. K. 1

9:50 MF563 – Harmonic & Polar Sequence

	(Polar sequence) ScBScC			Diff		(Harmonic) ScBScC			Cu	Magn
10	5.8 5.7	5.7	5.7510	3.27	1	i	7.7	7.70 . a	3.43	11.13
11	6.7 6.6	6.5	6.6011	2.95	2		8.9	9.0 8.95 01	2.22	11.17
12	6.7 6.6	6.8	6.7501	3.11	3		8.1	8.0 8.05 10	3.05	11.10
13	7.0 6.9	7.0	7.0000	3.30	4	i	.	.	.	.
14	7.6	7.7	7.6501	3.00	5		7.7	7.7 7.70 00	3.43	11.13
15	7.8	7.7	7.7510	3.33	6		8.3	7.9 8.10 22	2.90	11.00
16	7.9	7.9	7.9000	3.50	7		8.8	8.8 8.80 00	1.48	[10.28 x]
17	8.6	8.8	8.7011	2.93	8		7.7	7.7 7.70 00	3.28	10.98
18	8.9	8.9	8.9000	3.16	9		9.0	9.0 9.00 00	2.07	11.07
					10		8.3	8.5 8.40 11	2.78	11.10
					11		7.8	7.7 7.7510	3.48	11.23
					12		9.2	9.2 9.20 00	1.73	10.93
					13		8.6	8.6 8.60 00	2.69	11.29
					14		8.4	8.6 8.50 11	2.70	11.20

~~Mean 11.10 03 07 00 .. 03 10 .. 13 03 00 13 17 19 10~~

Mean 11:11 02 06 01 .. 02 11 .. 13 04 01 12 18 18 09

x Inconsistent curve

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Saturday. March 31, 1917

Plot sheets

MF563 – Harmonic Comp 5 stars.

	ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
1		6.8	7.7	8.3
2		7.9	8.9	9.7
3		7.3	8.1	8.6
4		6.7	7.7	8.3
5		6.6 6.1 ~~7.6~~	7.7	8.4
6		7.6	8.2	8.7
7		def.	8.8	9.7?
8		7.3	7.7	8.6
9		8.6	8.9	9.9
10		7.6	8.5	8.7
11		6.7 6.8	7.6	8.5
12		8.0	9.6	10.6?
13		6.9 7.0	8.6	8.9
14		7.7	8.4	9.2

	Mean Sep. 4.5, 11, ##	Cu	Magn	adt. corr.	Corr. Magn
a	6.77 03 07 03	3.15	9.92	+.17	10.09
b	7.67 03 03 07	3.13	10.80		10.97
c	8.40 10 00 10	3.14	11.54		11.71

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Saturday. March 31, 1917

Scale V

	MFsb3 (Hamiltonia) ScBScC	Hamiltonia & Polar Sequence ScBScC
1	7.7	10 5.7 5.6
2	9.0	11 6.3 6.1
3	8.0	12 6.8 6.7
4	i	13 7.0 6.9
5	7.7	14 7.7
6	7.9	15 7.7
7	8.8	16 7.9
8	7.7	17 8.8
9	9.0	18 8.9
10	8.5	
11	7.7	
12	9.2	
13	8.6	
14	8.6	

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Saturday, March 31, 1917

Scale V

Flat sheet 5

MF 564 - Harmonia + Polana Segusina (Harmonia)

	ScB	ScC	Diff		ScB	ScC		Cu	Magn
10	5.9 6.0	6.0	6.0000	3.02	1	9.6	9.7	9.6501	1.59	11.24
11	6.8 6.7	6.8	6.8000	2.75	2	9.9?	9.9	9.9000	1.60	11.50
12	6.8 6.7	6.9	6.8501	3.01	3	8.8	8.8	8.8000	2.46	11.26
13	7.6	7.2	7.4022	2.90	4	7.9	7.9	7.9000	2.97	10.87
14	7.9	7.9	7.9000	2.75	5	~~9.1~~ def.		.	.	.
15	8.2	7.9	8.0521	3.03	6	9.1	8.9	9.0011	.	.
16	8.4	8.7	8.5512	2.85	7	8.6	8.7	8.6501	2.62	11.27
17	8.8	8.8	8.8000	2.83	8	8.6	8.6	8.6000	.	.
18	9.0	9.2?	9.101	2.96	9	9.6	9.6	9.6000	.	.
					10	9.7?	F	9.70	.	.
					11	8.7	8.7	8.7000	2.36	11.06
					12	F	F	.	.	11.10 R
					13	8.9	9.0	8.9501	1.67	[10.62]
					14	9.6?	9.6?	9.6000	1.95	11.55

~~Mean 11 17 07 33 09 30 . " 10 " " " 11 " 5 45 38~~

Con. mean 11.23 01 27 03 36 " " 04 " " " 17 " 13 32

July 31, 1917 Cu Magn

13 9.3 1.80 11.10

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Saturday, March 31, 1917

Scale V

MF 564 — Harmonia Comp Stars

	(a) ScBSc		(b) ScBSc	(c) ScBSc
1	8.7		9.8	9.8
2	8.9		9.8	9.9
3	7.8		8.8	9.1
4	7.2		8.2	8.9
5	def	8.9	F	F
6	8.9	8.2	8.9	F
7	8.7	7.8	8.6	8.9
8	8.6	7.6	8.2	F
9	9.6	8.6	9.1	F
10	8.7 F	def.	F	9.3
11	F	7.9	8.8	
12		9.2	F	F
13	9.0	8.8	9.2	9.4
14	9.6 ?	8.9	9.4	9.7

Harmonia

	Means of exp. 4, 7, 8	Cu	Magn
a	7.53 3,31	2.87	10.40
b	8.33 1 3 1	2.87	11.20
c	8.90 o o a	2.89	11.79

Exposure on the Pole was 9m, as these magnitudes will not be used - On second consideration, I have concluded that the time was incorrectly recorded, and ∴ am making use of the exposures of 10m each in obtaining magnitudes.

	Exp. 11	Cu	Magn	Corr.	Corr. magn
a	7.9	2.87	10.77	+.09	10.86
b	8.8	2.88	11.68		11.77
c	9.3	2.91	12.21		12.30

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1917phae.proj.1161R

Saturday, March 31, 1917

Scale V

MF 564 - (Harmonia) & Polar Sequence - (Polar sequence)

	ScBScC (Harmonia)	ScBScC (Polar sequence)
1	9.7	10 6.0 5.9
2	9.9	11 6.8 6.7
3	8.8	12 6.9 6.8
4	7.9	13 7.2
5	(See 5)	14 7.9
6		15 7.9
7	page	16 8.7
8		17 8.8
9		18 9.2?
10		
11		
12		
13		
14		

11:50

Corr. Magn	MF 563			
10.49	10.09	10.29	20	20
11.29	10.97	11.13	16	16
11.88	11.71	11.79	09	08

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1917phae.proj.1161R

Monday. Apr. 2, 1917

Scale ✓
10:40

MF 573 – Flora –
Polar Sequence

	Sc	B	Sc	C	Diff
12	4.9 4.8	5.0	4.95	01	4.91
13	5.4 5.3	5.7	5.55	12	4.75
14	5.9 5.8	6.0	5.95	01	4.70
15	6.0 5.9	6.0	6.00	00	5.08
16	6.8 6.7	6.9	6.85	01	4.65
17	7.0 6.9	7.2	7.10	11	4.53
18	7.8	7.6	7.70	11	4.36

	Sc	Cu	Magn
1	6.85	3.68	10.53
2	5.50	4.88	10.38
3	6.65	3.75	10.40
4	7.60	3.04	10.64
5	5.80	4.61	10.41
6	7.70	2.68	10.38
7	6.70	3.78	10.48
8	5.80	4.67	10.47
9	7.90	4.62	10.52
10	6.85	3.60	10.45
11	5.90	4.43	10.33
12	6.75	3.79	10.54

Mean 10.46 07 08 06 18 05 08 02 01 06 01 13 08

Flora 9 Left 6
Send up

(Flora) Reject from superseded curve

		Sc	B	Sc	C	Cu	Magn
12	1	6.8 6.7	6.7	6.75	10	3.91	10.66
11	2	5.9 5.8	5.9	5.90	00	4.58	10.48
10	3	6.8 6.7	6.9	6.85	01	3.78	10.63
9	4	7.9	7.9	7.90	00	2.77	10.67
8	5	5.8 5.7	5.8	5.80	00	4.78	10.58
7	6	6.1 6.6	6.7	6.70	00	3.91	10.61
6	7	7.7	7.7	7.70	00	2.87	10.57
5	8	5.8 5.7	5.8	5.80	00	4.78	10.58
4	9	7.6	7.6	7.60	00	3.15	10.75
3	10	6.6 6.5	6.7	6.65	01	3.87	10.52
2	11	5.3 5.2	5.7	5.50	12	5 4.04	10.54
1	12	6.9 6.8?	sup. 6.9	6.85	01	3.80	10.65

Superseded
When entered in Asteroid Tab, residuals given in reverse order.

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1917phae.proj.1161R

Monday, Apr. 2, 1917

Scale V

MF 573 - ~~Flora~~ (a) (b) Comp. Stars + Flora (c) Flora

		Sc	B	Sc	C	Sc	B	Sc	C	Sc	B	Sc	C
		5.9				6.6				6.7			
12	1	5.8				6.5				6.6			
		5.2				6.0				5.9			
11	2	5.1				5.9				5.8			
		6.0				6.7				6.9			
10	3	5.9				6.6				6.8			
		7.0											
9	4	6.9				7.8?							
		4.9				5.8				5.8		7.9	
8	5	4.8				5.7				5.7			
		6.6				6.6				6.7			
7	6	5.9				6.6				6.6			
		6.8				7.8							
6	7	6.7				~~6.6~~							
		4.7				5.6		5.7		5.8		7.7	
5	8	4.6				~~7.4~~				5.7			
		6.9											
4	9	6.8				7.2							
		5.7				6.5				6.7		7.6	
3	10	5.6				6.1				6.6			
		4.9				5.15				5.7			
2	11	4.8				5.4				5.6			
		6.0				6.7				6.8			
1	12	5.9				6.6				6.8			

	Mean of Eq. 1, 2, 8, 11	Cu	Magn	Add. cor.	Cor. magn
a	5.002 ± 1	4.85	9.85	+0.19	10.04
b	5.77 ± 02	4.77	10.54		10.73
c	7.13 ± 2 ± 5	4.51	11.64		11.83

V wrong sta -

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1917phae.proj.1161R

Monday. Apr. 2, 1917

Scale V

MF 573 - Polar Sequence

	Sc	B	Sc	C
12	4.9	5.0		
13	5.6	5.7	6.0	
14	5.9		6.0	
15	5.9		6.0	
16	6.8			
17	7.2			
18	7.6			

11:20

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1917phae.proj.1161R

Monday Apr 2, 1917

Scale V

Plot sheet 6

10:40 MFS 74 - Flora & Polar Sequence

Polar Seq.

	ScB	ScC		Diff		
12	6.7	6.55	6.6711	3.19	17	
13	6.9	6.9	6.9510	3.35	16	
14	7.3	7.3	7.3000	3.35	15	
15	7.8	7.7	7.7610	3.33	14	
16	7.9	7.9	7.9000	3.50	13	
17	8.7	8.4	8.5521	3.08	12	
18	Sus-	-	-	-	11	
					10	
					9	
					8	
					7	
					6	
					5	
					4	
					3	
					2	
					1	

Flora

Reject - from sa jar - pedal cause

	ScB	ScC		Cu	Magn
	7.6	7.7	7.6501	2.95	10.60
	7.9	7.9	7.9000	254	10.44
	8.8	8.7	8.7510	169	10.44
7.0	6.9	7.0	7.0000	326	10.26
	8.8	8.8	8.8000	194	10.74
6.8	7.7	7.7	7.7000	283	10.53
6.7	6.9		6.8501	352	10.37
7.0	6.9	7.0	7.0000	339	10.39
	7.8	7.7	7.7510	263	10.38
	8.4	8.6	8.5021	230	10.80
6.9	6.8	6.9	6.9000	368	10.58
	7.8	7.8	7.8000	300	10.80
6.8	7.9	7.9	7.9000	221	10.11
6.7	6.9		6.8501	375	10.60
7.0	7.9	8.3	8.1022	233	10.43
6.9	7.0		7.0000	337	10.37
	7.8	7.7	7.7510	273	10.48

	Sc	Cu	Magn
1	7.75	2.60	10.35
2	7.00	3.22	10.22
3	8.10	2.24	10.34
4	6.85	3.60	10.45
5	7.90	2.10	10.00
6	7.80	2.83	10.63
7	6.90	3.58	10.48
8	8.50	2.27	[10.77] 10.03
9	7.75	2.50	10.25
10	7.00	3.28	10.28
11	6.85	.	.
12	7.70	2.70	10.40
13	8.80	1.81	10.61
14	7.80	3.06	10.06
15	8.75	1.57	10.32
16	7.90	2.45	10.35
17	7.65	2.81	10.46

Sc July 31, 1917

8 7.98 2.13 10.03

Mean 10.37 02 15 03 08 37 26 11 40 12 09 - 03 24 31 05 02 09

Con. mean 10.33 02 11 01 12 33 30 15 30 08 05 07

28 27 01 02 13.

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1917phae.proj.1161R

Wednesday, Apr. 2, 1917

Scale V

MF 574 — Flora & Comp. Stars.

		(a) ScBScC	(b) ScBScC	(c) ScBScC	(Flora) ScBScC
17	1	6.9 6.8	7.7	8.6	7.7
16	2	7.7	7.9	8.9	7.9
15	3	6.8 8.5	7.4 8.4	9.8	7.0 8.7
14	4	6.7	6.9	8.4	6.9
13	5	8.1	8.6	9.7	8.8
12	6	6.8 7.2	6.9 7.7	8.8	6.9 7.7
11	7	6.7 6.9	6.8 7.9 7.0	7.9	6.8 7.0
10	8	6.8	6.9 7.7	7.9	6.9
9	9	7.6	7.8	8.8	7.7
8	10	6.5 8.0	6.8 8.0	9.2	6.9 8.6
7	11	6.4 7.0	6.7	7.9	6.8
6	12	6.9	7.7	8.4	7.8
5	13	6.3 7.9	6.8 8.2	scratched	6.9 7.9
4	14	6.2 6.0	6.7	7.9	6.8
3	15	7.9 66.9	7.0 7.9	9.5	7.0 8.3
2	16	7.8	6.9	8.6	6.9
1	17	7.3	7.8	8.9	7.7

	Mean Ref. 7, 10, 11	Cu	Mag.	adt. cn.	Cor. Mag.	
a	6.73 2 2 1	3.28	10.01	+0.17	10.18	10.04
b	6.90 1 1 0	3.29	10.19		10.36	10.73
c	7.90 . . .	3.36	11.26		11.43	11.83
					10.11 07 07	
					10.54 18 18	
					11.63 20 20	

See R3:111 for final magnitudes.

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1917phae..proj..1161R

Monday, Apr. 2, 1917

Scale 0

MF574 - Polar Sequence
Polar seq.

#	Sc B	Sc B
12	6.2 (6.3)	6.7 (6.8) 6.55 2 3
13	6.8 (6.9)	
14	7.3	
15	7.7	
16	7.9	
17	8.4	
18	sm -	

12:45

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1917phae.proj.1161R

Tuesday. Apr. 3, 1917

Scale ✓
10:35

MF580 - Polar Sequence + Fides
(Polar seq) (Fides)

Plot sheet 8

	ScBScC		Diff		ScBScC			Cu	Magn
13	6.9 6.8	7.0 6.95 01	3.35	13	F	F	F	3.52	.
14	7.6 7.3	7.45 21	3.20	12	8.6	8.7	8.65 01	4.13 3.82	12.17
15	7.9 7.8	7.85 10	3.23	11	8.6	8.8	8.70 11	3.39	12.52
16	7.9 7.8	7.85 10	3.55	10	8.9	8.9	8.90 00	3.20	12.10
17	8.3 8.4	8.35 01	3.28	9	9.4	F	9.40 a.	2.52	11.92
18	8.6 8.6	8.60 00	3.46	8	8.4	8.4	8.40 00	3.99	12.39
				7	8.8	8.9	8.85 01	3.47	12.32
				6	9.8 8.4	9.6	9.70 11	.	.
				5	9.7	8.3	8.35 10	3.79	12.14
				4		F	9.70 a.	2.84	12.54
				3	8.8	8.7	8.75 10	3.40	12.15 11.89
				2	7.7	7.8	7.75 01	3.97	[11.72]
				1	i	i	.	.	.

Mean ~~12.20 .. 48 05 34 06~~ 12.19 ~~28 10 32 03~~ ..

July 31. 1917
Cu
2 7.9 3.99 Magn 11.89

Corr. Mean 12.21 .. 32 06 33 07 .. 11 18 29 11 31 04 ..

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1917phae.proj.1161R

Tuesday, Apr. 3, 1917

Scale V

MF580- Tides + Comp. Stars.
(a) (b) (c)

		ScBScC	ScBScC	ScBScC	Tides ScBScC
13	1	8.9	F	9.6	F
12	2	7.7	8.7	8.9	8.7
11	3	7.8	8.6	8.X6	8.8
10	4	8.5	9.1	8.9	8.9
9	5	8.9	9.6	F	F
8	6	7.6	8.2	8.6	8.4
7	7	8.0	8.9	8.9	8.9
6	8	8.8	9.6	F	~~9.2~~ 9.6
5	9	7.8	8.3	8.7	8.3
4	10	8.9	9.7	9.5	F
3	11	7.8	8.8	9.2	8.7
2	12	7.4	8.0	8.6	7.8
1	13	i	i	i	i

Mean Ref. 2,8,11,12	Cu	Mag	Add. con.	Con. magn
a 7.62 ± 021	3.30	10.92	+.17	11.09
b 8.38 ± 233	3.41	11.79		11.96
c 8.68 ± 113	3.47	12.15		12.32

For final magnitudes see 5:127

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1917phae.proj.1161R

Tuesday, Apr. 3, 1917

Scale V

MF580 - Polar seq —

Polar seq.

	1.0/3 Sec
13	6.9
14	7.3
15	7.8
16	7.8
17	8.4
18	8.6

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1917phae.proj.1161R

Tuesday, Apr 3, 1917

Scale V

Plate sheet 8

MF581 – Fides + Polar sequence –
(Polar seq) (Fides)

	ScBScC		Diff		ScBScC		Cu	Magn
13	7.7	7.8 7.7501	2.55	18	F .	. .		
14	8.2	7.9 8.0521	2.60	17	9.8	. 9.80 2.	.	.
15	Def.	. .	.	16	8.9	8.9 8.9000	3.51	12.41
16	8.8	8.8 8.8000	2.60	15	9.6	9.4 9.5011	.	.
17	8.9	8.9 8.9000	2.73	14	F .	. .	.	.
18	9.3	9.4 9.4011	2.66	13	8.8	8.9 8.8501	.	.
				12	F 9.8	9.80 . 2	.	.
				11	8.9	9.1 9.0011	338	12.38
				10	8.8	8.7 8.7510	368	12.43
				9	8.6	8.6 8.6000	381	12.41
				8	8.8	8.9 8.8501	331	12.16
				7	F .	. .	.	.
				6	8.2	8.2 8.2000	3.68	11.88
				5	8.9	8.8 8.8510	3.21	12.06
				4	9.8	9.7 9.7510	2.53	12.28
				3	8.7	8.7 8.7000	376	12.46
				2	F .	. .	.	.
				1	F .	. .	.	.

Mean 12.27 19 01 21 39 11 14 16 11 14 " "

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1917phae.proj.1161R

Tuesday, Apr 3, 1917

MF581 – Fides + Comp. Stars (Fides)
(a) (b) (c)

		ScBScC	ScBScC	ScBScC	ScBScC
18		9.8	F	F	F
17	3	9.5	F	F	F
16	3	7.6	8.8	8.9	8.9
15	4	9.6	9.6	9.5	9.4
14	5	7.8	F	F	F
13	6	8.8	8.8	8.7	8.9
12	7	8.9	~~8.6~~ F	F	9.8
11	8	8.2	~~F~~ 8.9	9.1	9.1
10	9	7.7	8.6	8.8	8.7
9	10	7.7	8.5	8.6	8.8
8	11	7.9	8.9	9.2	8.9
7	12	8.8	F	F	F
6	13	7.6	8.6	8.6	8.2
5	14	8.1	9.2	9.1	8.8
4	15	8.9	9.7	F	9.7
3	16	7.7	8.6	8.7	8.7
2	17	8.8	F	F	F
1	18	8.9	F	F	F

	Mean Perf. 6,9,10,16	Cu	Magn	Add. cor.	Cor. Magn
a	7.65 ± .10	2.53	10.18	+.14	10.32
b	8.620 ± .02	2.61	11.23		11.37
c	9.72 ± ± 12	2.63	11.35		11.49

These magnitudes are rejected because of hazy sky, which probably accounts for [illegible]

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1917phae.proj.1161R

Tuesday. Apr. 3, 1917

UF581 - Polar sequence -

	ScB	ScC
13		7.8
14		7.9
15		def.
16		8.8
17		8.9
18		9.5

11.55

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1917phae.proj.1161R

Wednesday, April 4, 1917

Plot sheet 9

10:00

Scale V MF558 - Ceres and Polan Segment
(Polan seg.) (Ceres)

	ScB	ScC	Diff			ScB	ScC	Cu	Mean
5	B	B	.	11	1	2.9 2.8	2.9	2.90 00	4.69	7.59
6	1.7 1.6 1.6	1.5	1.6510	5.46	10	2	4.9 4.8	5.0	4.9501	2.67	7.52
7	1.6 1.9 1.5	1.8	1.75 1 2	5.56	9	3	3.7 3.6	3.8	3.7501	4.02	7.77
8	3.8 3.8 3.7	3.7	3.8000	4.43	8	4	2.7 2.6	2.8	2.7501	5.07	7.82
9	Sat 45.0 Sat 4.9		.	.	7	5	2.7 2.6	2.7	2.7000	5.08	7.78
10	4.9 4.7		4.65 1 2	4.37	6	6	3.8 3.7	3.9	3.8501	3.98	7.83
					5	7	4.9 4.8	4.9	4.9000	2.91	7.81
					4	8	2.4 2.3	2.8	2.60 2 2	5.18	7.78
					3	9	3.8 3.7	3.8	3.8000	4.03	7.83
					2	10	4.3 4.2	5.0	4.65 3 4	3.08	7.73
					1	11	3.7 3.6	3.8	3.7501	4.03	7.78

All images very large and difficult to compare

Mean 7.75 03 02 08 03 06 08 03 07 02 23 16

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1917phae.proj.1161R

Wednesday, April 4, 1917

Scale V

Cert. corr. +.18

MES58 - Ceus & Comæ Stars

	(a) Sc B	(b) Sc B Sc C	(c) Sc B Sc C	(Ceus) Sc B Sc C
11	2.7	3.3	4.4	2.9
	2.6	3.2	4.3	2.8
10	4.8	5.7	6.3	5.0
	4.7	5.6	6.2	4.9
9	2.8	3.9	4.9	3.8
	2.7	3.8	4.8	3.7
8	1.9	2.8	3.8	2.8
	1.8	2.7	3.7	2.7
7	1.8	2.8	3.8	2.7
	1.7	2.7	3.7	2.6
6	2.9	3.9	4.7	3.8
	2.8	3.8	4.6	3.7
5	3.9	5.0	6.3	4.9
	3.8	4.9	6.2	4.8
4	5.6 *	2.9	3.3	2.8
	5.5	2.8	3.2	2.7
3	3.8	3.8	4.7	3.8
	3.7	3.7	4.6	3.7
2	4.9	4.9	6.9	5.0
	4.8	4.8	6.8	4.9
1	2.8	3.9	4.9	3.8
	2.7	3.8	4.8	3.7

	Mean Ref. 4,7,8	Cu	Magn	Con. Magn.
a	1.77 ± 01	5.50	7.27	7.45
b	2.83 1 0 0	4.91	7.74	7.92
c	3.63 3 2 2	4.50	8.13	8.31

For final magnitudes see R5:117

* On re-examining the plate I find that evidently there is a mistake by unit here. The measures should have been recorded 1.5, not 5.5.

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1917phae.proj.1161R

Wednesday, April 4, 1917

Scale V

MF558 - Polar Sequence

	S	B	Sc	B	C
5		B/			
6		1.0			
7		1.8			
8		3.7			
9		Sm.			
10		4.7			

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1917phae.proj.1161R

Wednesday. April 4, 1917

Scale

Plot sheets #7 & 10

MF559 — Ceres + Comp. Stars

		(Ceres) Sc	B	Sc	C	(a) Sc	B	Sc	C	(b) Sc	B	Sc	C	(c) Sc	B	Sc	C
11	1	1.9	24	2.20	2	2.0 / 1.9				2.6 / 2.5				3.9 / 3.8			
10	2	4.8	4.9	4.90	00	5.3 / 4.2	4			4.9 / 4.8				6.2 / 6.1			
9	3	2.9	3.70	3.35	34	3.3 / 3.2				3.8 / 3.7				4.8 / 4.7			
8	4	2.32	2.5	2.45	01	2.6 / 2.5	1	?	1	2.7 / 2.6				3.7 / 3.6			
7	5	2.3	1.9	2.15	3	2.4 / 2.3	1	?	1	2.5 / 2.4				3.4 / 3.3			
6	6	3.0	3.0	3.05	10	3.4 / 3.3		?		3.8 / 3.7				4.8 / 4.7			
5	7	4.8	4.9	4.90	00	4.9 / 4.8	3		3	4.9 / 4.8				6.2 / 6.1			
4	8	1.8	1.9	1.90	00	1.7 / 1.6				2.6 / 2.5				3.7 / 3.6			
3	9	2.8	3.70	3.30	44	2.9 / 2.8				3.9 / 3.8				4.9 / 4.8			
2	10	4.7	5.0	4.90	11	5.4 / 5.3	4		4	4.9 / 4.8				5.9 / 5.8			
1	11	3.7	3.9	3.85	01	4.3 / 4.2	3		3	3.9 / 3.8				5.7 / 5.6			

Ceres

	Sc	Cu	Mean
1	3.85	3.94	7.79
2	4.90	2.91	7.81
3	3.30	4.27	7.57
4	1.90	5.65	7.55
5	4.90	2.94	7.84
6	3.06	.	.
7	2.15	5.53	7.68
8	2.45	3.28	7.73
9	3.35	4.14	7.49
10	4.90	2.93	7.83
11	2.20	5.39	7.59

Mean 7.69 10 12 12 14 15 01 04 20 17 10

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1917phae.proj.1161R

Wednesday, April 4, 1917

Scale

MF559 - Ceres

		Sch	3	Sch C
1		2.4		
		2.3		
2		4.9		
		4.8		
✓	3	3.8	3.6	
✓		3.7	3.5	3.70 ±
4		2.5		
		2.4		
		1.9		
5		1.8		
		3.0		
6		2.9		
		4.9		
7		4.8		
		1.9		
8		1.8		
		3.7	3.7	
✓	9	3.6	3.6	3.70 ∘∘
		5.0		
10		4.9		
		3.9		
11		3.8		

11:20

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1917phae.proj.1161R

Thursday April 5 1917

Scale V

10:40 MF-577 - Astraea and Polar Sequence - Sound of Cu Magn

	Polar sequence ScBScC			Diff		Astraea ScBScC					
9	3.9 3.8	3.9	3.9000	4.93	11	1	3.9	7.9	8.1	8.00 11	1.77	9.77
10	4.1 4.6	4.9	4.8011	4.22	10	2	2.7	7.1	7.2	7.1501	2.45	9.60
11	5.0 4.9	5.2	5.1011	4.45	9	3	4.4	7.9	7.9	7.9000	1.88	9.78
12	5.9 5.8	5.9	5.9000	3.96	8	4	1.8	6.4 6.3	6.4	6.4000	3.58	9.98
13	6.3 6.4	6.5	6.5000	3.80	7	5	2.9	6.7 6.6	6.9	6.8011	2.87	9.67
14	6.7 6.6	6.8	6.7501	3.90	6	6	3.9	7.8	7.8	7.8000	1.96	9.76
15	7.0 6.9	7.1	7.0501	4.03	5	7		6.6 6.5	6.7	6.6501	3.56	10.21
					4	8		7.8	7.8	7.8000	2.06	9.86
					3	9		6.8 6.7	6.7	6.7510	3.07	9.82
					2	10		5.9 5.8	5.8	5.8510	3.95	9.80
					1	11		5.9 5.8	5.8	5.8510	3.90	9.75

Mean 9.82 07 02 00 04 39 06 15 16 04 22 05

Quit - wrong star

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1917phae.proj.1161R

Thursday, April 5, 1917

Scale V

Plate sheet II

MES 97 – Astraea and Comp. 5 stars. Sequ of (Astraea)

		(a) ScBScC	(b) ScBScC	(c) ScBScC	ScBScC
11		7.1	8.1	8.9	8.1
10	2	6.2 6.1	7.6	7.7	7.2
9	3	7.0 6.9	8.0	8.6	7.9
8	4	4.9 4.8	6.3 6.2	6.9 6.8	6.4 6.3
7	5	6.0 5.9	7.0 6.9	7.9	6.9 6.8
6	6	6.9 6.8	7.9	8.6	7.8
5	7	5.0 4.9	6.0 5.9	7.0 6.9	6.7 6.6
4	8	6.8 6.7	7.8	8.4	7.8
3	9	5.9 5.8	6.8 6.7	7.6	6.7 6.6
2	10	4.8 4.7	5.9 5.8	6.9 6.8	5.8 5.7
1	11	4.7 4.6	6.0 5.9	6.8 6.7	5.8 5.7

	Mean of ref. 2+8	Cu	Magn	Corr. corr	Cor. magn
a	4.85 ± 01	4.34	9.19	+.02	9.21
b	6.10 ± 2	3.97	10.07		10.09
c	6.90 ± 0	3.92	10.82		10.84

a	9.06	15	14
b	9.84	25	25
c	10.42	42	42

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Thursday April 5, 1917

Scale V

HF577 - Polar sequence

	ScB	ScC
9	3.9 3.8	
10	4.9 4.8	
11	5.2 5.1	
12	5.9 5.8	
13	6.5 6.4	
14	6.8 6.7	
15	7.0	

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1917phae.proj.1161R

Thursday, April 5, 1917

Scale V

MF 578 - Astrava & Pola sequence — Send of (Astrava)

	ScB	ScC	Diff		ScB	ScC	Cu	Magn
9	4.9 4.8	4.9	4.9000	3.93	11	7.6	7.6	7.6000	2.38	9.98
10	4.9 4.8	5.0	4.9501	4.07	10 2	7.5	7.5	7.5000	2.35	9.85
11	6.4 6.3	6.15	6.2811	3.27	9 3	8.2	8.1	8.1510	1.90	10.06
12	6.6 6.5	6.8	6.7011	3.16	8 4	6.7 6.6	6.6	6.6510	3.49	10.14
13	7.0 6.9	6.9	6.9510	3.35	7 5	7.0 6.9	7.0	7.0000	2.81 +31	9.81
14	7.6	7.6	7.6000	3.05	6 6	7.9	8.1	8.0000	1.84	9.84
15	7.9	7.9	7.9000	3.18	5 7	6.7 6.6	6.8	6.7501	3.32	10.07
					4 8	7.8	7.8	7.8000	1.98	9.78
					3 9	6.9 6.8	6.8	6.8510	2.88	9.73
					2 10	5.9 5.8	5.9	5.9000	3.68	9.58
					1 11	6.7 6.6	6.7	6.7000	3.28	9.98

Mean 9.89 09 31 16 11 18 05 08 25 16 04 09

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1917phae.proj.1161R

Thursday, April 5, 1917

Scale V

Field sheet II

MES 78 – Astrog & Comp. Stars

	(a) ScBScC		(b) ScBScC		(c) ScBScC		(Astrom) ScBScC	
11		6.3						
	1	6.2	1	7.6	1	7.9	1	7.6
		6.7						
10	2	6.6	2	7.6	2	7.8	2	7.5
		7.0						
9	3	6.9	3	8.0	3	8.4	3	8.1
		5.4		6.3		7.0		6.6
8	4	5.3	4	6.2	4	6.9	4	6.5
		6.2		7.0				7.0
7	5	6.1	5	6.9	5	7.7	5	6.9
6	6	7.1	6	8.0	6	8.8	6	8.1
		4.9		6.7		6.9		6.8
5	7	4.8	7	6.6	7	6.8	7	6.7
		7.1						
4	8	7.8	8	7.8	8	8.7	8	7.8
		5.9		7.0				6.8
3	9	5.8	9	6.9	9	7.7	9	6.7
		4.8		6.5		6.8		5.9
2	10	4.7	10	6.4	10	6.7	10	5.8
		5.0		6.7		7.0		6.7
1	11	4.9	11	6.6	11	6.9	11	6.6

	Mean 7 wt. 248	Cu	Magn	Abs. corr	Cor. Magn
a	5.10 3 3/	3.91	9.01	-.09	8.92
b	6.40 1 1/	3.28	9.68		9.59
c	6.90 1 1/	3.19	10.09		10.00

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Thursday, April 5, 1917

Scale V

MF578 - Plan Sequence

	St	B	Sc	C
9	4.9			
10	5.0 4.9			
11	6.0 5.9	6.3 6.2	6.1	6.2
12	6.8 6.7			
13	6.9 6.8			
14	7.6			
15	7.9			

11:45

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1917phae.proj.1161R

Saturday, April 7, 1917

Remeasures of Com. Stars for Irene + Centigrade.

Plate No.	Exp.	Star	Wagon		
MF531	1	a	6.6 6.5		
		b	6.9 6.8		
	3	b	7.0 6.9		
MF547	2	b	7.9	b^2	7.9
		c	8.2	c^2	8.6
	3	d	7.7	d^2	8.8 8.2
	6	c	7.6	c^2	7.7
	8	a	6.0 5.9		
		d	7.4	d^2	7.9
	10	a	7.9	b^2	7.8
		d	8.8	d^2	9.4 8.8 9.1033,
MF547	6	b^2	~~8.1~~ 7.7		
		c^2	7.6 6.9		
MF554	10	c	6.8 Retain former measure p. 38		
MF556	8	c	7.6		
		d	8.2 7.0		
MF548	6	b^2	6.9		
		c^2	7.9		

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1917phae.proj.1161R

Thursday. April 12, 1917

Re-measure of Iowa (14) - MF 547.

Exposure 3 - a^2 - 6.7 6.6

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1917phae.proj.1161R

Thursday, April 12, 1917

MF547 - June — Sequence 2 used.

Eaj.

	Estimates			
1	10.23 C #3 V; V = 1	10.53	10.53 ?	"
2	9.27 a 4 V; V 2 9.86	9.67	9.66	9.66 01 00 14
3	9.27 a 4 V; V 2 9.86	9.67	9.66	9.66 01 00 14
4	9.86 b 2 V; V 2 10.23 C	9.67	9.66	9.66 01 00 14
5	9.27 a 4 V; V 2 9.86 b O.K	10.06	10.03	10.04 02 01 24
6	9.86 b 1 V; V 2 10.23 C	9.96	10.03	10.00 04 03 20
7	9.86 b 2 V; V 1 10.23 C	10.06	10.13	10.10 04 03 30
8	9.86 b 2 V; V 3 10.23 C	10.06	9.93	9.99 07 06 19
9	9.27 a 3 V; V 2 9.86 b	9.57	9.66	9.61 04 05 19
10	9.86 b 1 V; V 2 10.23 C	9.96	10.03	10.00 04 03 20
11	9.86 b 1 V; V 2 10.23 C	9.96	10.03	10.00 04 03 20
12	9.27 a 4 V; V 2 9.86 b	9.67	9.66	9.66 01 00 14
13	9.27 a 4 V; V 2 9.86 b	9.67	9.66	9.66 01 00 14
14	9.27 a 4 V; V 2 9.86 b	9.67	9.66	9.66 01 00 14
15	9.27 a 4 V; V 1 9.86 b	9.67	9.76	9.71 04 05 09
16	9.27 a 5 V; V 2 9.86 b	9.77	9.66	9.72 05 06 08
17	9.27 a 4 V; V 2 9.86 b	9.67	9.66	9.66 01 00 14
				12.79

9.80 Mean mag.

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1917phae.proj.1161R

Friday, April 13, 1917

10:30 MF548 - Imil — Sequence 2

Estimates

Ej.						
1	9.27 a 4 V; V 2 b 9.86	9.67	9.66	9.66 01 00	20	
2	9.27 a 4 V; V 2 b 9.86	9.67	9.66	9.66 01 00	20	
3	9.86 b 2 V; V 2 c 10.23	10.06	10.03	10.05 01 02	19	
4	9.86 b 1 V; V 2 c 10.23	9.96	10.03	10.00 04 03	14	
5	9.86 b 2 V; V 1 c 10.23	10.06	10.13	10.10 04 03	24	
6	9.86 b 1 V; V 1 c 10.23 / 9.27 a 5 V; V 1 b 9.86	9.96 / 9.77	10.13 / 9.76	10.04 08 07 / 9.76 01 00	9.90 14 14 04	
7	9.86 b 1 V; V 2 c 10.23	9.96	10.03	10.00 04 03	14	
8	9.27 a 5 V; V 1 b 9.86	9.77	9.76	9.76 01 00	10	
9	9.27 a 5 V; V 1 b 9.86	9.77	9.76	9.76 01 00	10	
10	9.27 a 5 V; V 1 b 9.86	9.77	9.76	9.76 01 00	10	
11	9.27 a 5 V; V 1 b 9.86	9.77	9.76	9.76 01 00	10	
12	V = b = 9.86	9.86		9.86	00	

10 .27

9.86

Rewrite ? asteroid very poor — defective?

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1917phae_proj_1161R

Friday, April 13, 1917

MF547 - Iron - Seq. 2

Exp.		Estimates F			
1	1				
2		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
3		9.27 a 4 V ; V 2 b 9.86	9.67	~~9.66~~ 9.66	9.66 01 00
4		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
5		9.27 a 3 V ; V 2 b 9.86	9.57	9.66	9.61 04 05
6		9.86 b 1 V ; V 2 C 10.23	9.96	10.03	10.00 04 03
7		9.86 b 2 V ; V 2 C 10.23	~~9.66~~ 10.06	10.03	10.05 01 02
8		9.27 a 4 V ; V 2 b 9.86	9.67	9.66	9.66 01 00
9		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
10		9.86 b 2 V ; V 2 C 10.23	10.06	10.03	10.05 01 02
11		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
12		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
13		r = b = 9.86	9.86		9.86
14		9.27 a 5 V ; V 2 b 9.86	9.77	9.66	9.72 05 06
15		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05
16		9.27 a 5 V ; V 1 b 9.86	9.77	9.76	9.76 01 00
17		9.27 a 4 V ; V 2 b 9.86	9.67	9.66	9.66 01 00

Re-measures.

5		9.86 b 1 V ; V 2 C 10.23	9.96	10.03	10.00 04 03
8		9.27 a 4 V ; V 2 b 9.86	9.67	9.66	9.66 01 00
11		9.27 a 4 V ; V 1 b 9.86	9.67	9.76	9.71 04 05

14 | 65

9.77

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Friday, April 13, 1917

MF554 - Antigua — Seq. 2

Ej.		Measures		
1				
2	10.39 b 1V; V2 c 10.71	10.49	10.51	10.50 01 01
3	10.71 c 1V; V4 d 11.13	10.81	10.73	10.77 04 04
4	10.39 b 1V; V2 c 10.71	10.49	10.51	10.50 01 01
5	10.39 b 1V; V2 c 10.71	10.49	10.51	10.50 01 01
6	10.71 c 1V; V4 d 11.13	10.81	10.73	10.77 04 04
7	10.71 c 2V; V3 d 11.13	10.91	10.83	10.87 04 04
8	10.71 c 2V; V4 d 11.13	10.91	10.73	10.82 09 09
9	10.71 c 2V; V4 d 11.13	10.91	10.73	10.82 09 09
10	10.71 c 2V; V4 d 11.13	10.91	10.73	10.82 09 09
11	10.71 c 2V; V4 d 11.13	10.91	10.73	10.82 09 09
12	10.71 c 2V; V4 d 11.13	10.91	10.73	10.82 09 09
13	10.39 b 2V; V1 c 10.71 F	10.59	10.61	10.60 01 01

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1917phae..proj..1161R

Friday, April 13, 1917

MF 555 - Cinfigurat - Seq. 2

Estimates

1					
12	10.71	C2V;V4d	11.13	10.91	10.73
2	10.71	C1V3d	11.13	10.81	10.83
3	10.71	C3V2d	11.13	11.01	10.93
4	10.71	C2V3d	11.13	10.91	10.83
5	10.71	C3VV3d	11.13	11.01	10.83
6	10.71	C2V3d	11.13	10.91	10.83
7	10.71	C2V3d	11.13	10.91	10.83
8	10.71	C2V4d	11.13	10.91	10.73
9	10.71	C2V3d	11.13	10.91	10.83
10	10.71	C2V3d	11.13	10.91	10.83
11	10.71	C2V;V4d	11.13	10.91	10.73

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1917phae.proj.1161R

Friday. April 13, 1917

MF557 – Antigone

Estimates

1	10.39 b 2 V 2 c 10.71	10.59	10.51	10.550404
2	10.71 c 1 V 4 g 11.13 (i)	10.81	10.73	10.770404
3	10.71 c 1 V 4 d 11.13	10.81	10.73	10.770404
4	10.71 c 2 V 4 d 11.13	10.91	10.73	10.820909
5	V = C = 10.71	10.71		10.71
6	10.71 c 2 V 4 d 11.13	10.91	10.73	10.820909
7	10.71 c 2 V 3 d 11.13	10.91	10.83	10.870404
8	10.71 c 1 V 4 d 11.13	10.81	10.73	10.770404
9	10.71 c 1 V 4 d 11.13	10.81	10.73	10.770404
10	10.71 c 1 V 3 d F 11.13	10.81	10.83	10.820101
11	10.71 c 1 V 4 d 11.13	10.81	10.73	10.770404
12	10.39 b 3 V 1 c 10.71	10.69	10.61	10.650404
13	10.71 c 2 V 3 d 11.13	10.91	10.83	10.870404
14	10.71 c 2 V 3 d 11.13	10.91	10.83	10.870404

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1917phae.proj.1161R

Friday, April 13, 1917

MF558 — Antigone —

	Eq.		Estimates		
1	10.71	c 2 v 2 d 11.13	10.91	10.93	10.92 01 01
2	10.71	c 2 v 3 d 11.13	10.91	10.83	10.87 04 04
3	10.39	b 2 v 1 c 10.71	10.59	10.61	10.60 01 01
4	10.71	e 3 v 2 d 11.13	11.01	10.93	10.97 04 04
5		~~v = c~~			
6	10.39	b 2 v 1 c 10.71	10.59	10.61	10.60 01 01
7	10.39	b 2 v 1 c 10.71	10.59	10.61	10.60 01 01
8		v = c = 10.71	10.71		10.71
9	10.71	c 1 v 4 d 11.13	10.81	10.73	10.77 04 04
10		v = c = 10.71	10.71		10.71
11	10.39	b 2 v 1 c 10.71	10.59	10.61	10.60 01 01
12	10.39	b 2 v 2 c 10.71	10.59	10.51	10.55 04 04

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Saturday. April 14, 1917

Re-measures of Comp. Stars for Centigrade

	Eq	Star	PC measure
MF 552 -	3	b²	8.4
	6	d²	8.8
	11	b²	8.1
		c²	7.9
MF 553	3	b²	8.7
		c²	8.8
	4	b²	7.7
		c²	7.6
	10	b²	7.9
		c²	8.0
MF 537	4	d	7.9
	7	a	7.3
		b	7.6
MF 538	3	b	9.0
	9	b	8.4
	12	b	8.6
MF 539	8	a	7.8
		b	7.8
	9	a	8.6
		b	8.6
MF 538	3	a	9.3
	9	a	8.7
	12	a	8.7
	3	c	9.7
	9	c	~~8.6~~ 8.9
	12	c	9.0
	9	d	9.0

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1917phae.proj.1161R

Tuesday, April 17, 1917

Scale V

10:30 MF 549 - Trans + Conv / Stars.

	(Trans) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC	(d) ScBScC
1	7.0 8.3	6.8 7.7	8.8	8.8	9.8
2	6.9	6.7	7.8	7.9	8.8
3	6.7 6.6	5.8 5.7	6.8 6.7	6.8 6.7	7.9
4	5.3 5.2	4.6 4.5	5.9 5.8	5.9 5.8	7.0 6.9
5	7.7	7.0 6.9	7.9	7.8	8.7
6	6.7 6.6	5.9 5.8	6.9 6.8	7.0 6.9	~~7.7~~ 8.0
7	5.8 5.7	4.7 4.6	5.9 5.8	5.9 5.8	7.6
8	6.0 5.9	5.8 5.7	6.0 5.9	6.6 6.5	7.5
9	6.9 6.8	7.0 6.9	7.1	7.3	8.1
10	7.9	8.0 7.8	8.1	8.4	9.0
11	6.7 6.6	6.9 6.8	5.8 5.7	7.0 6.9	8.2

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1917phae.proj.1161R

Tuesday. April 17. 1917

Scale ✓

MF 549 – Trans –

	Sc&Sc		Sc	Cu	Mag
1	8.6	8.3	8.45 13	1.30	9.75 08
2	7.4 7.6 6.7	7.0	7.33 123	2.27	9.60 23
3	6.6	6.7	6.70 00	3.27	9.97 14
4	5.7 5.6	5.7	5.60 123	4.28	9.88 06
5	7.9	7.7	7.80 11	2.24	10.04 21
6	6.8 6.7	6.7	6.75 10	3.12	9.87 04
7	5.8	5.8	5.85 10	4.11	9.96 13
8	6.0 5.9	6.0	6.00 00	3.86	9.86 03
9	7.0	6.9	6.95 10	2.88	9.83 00
10	7.9 6.9	7.9	7.90 00	1.59	9.49 34
11	6.8	6.7	6.80 11	3.10	9.90 07
					9.15

9.83 Mean mag.

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1917phae.proj.1161R

Tuesday, April 17, 1917

Scale V

MF567 - Irreg

	(Irreg) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC	(d) ScBScC
1	7.8	6.4 6.3	7.3	7.7	8.5
2	7.0 8.9	6.0 7.8	7.0 8.6	8.6 7.0	9.4
3	6.9	5.9	6.9	6.9	7.9
4	6.7 6.6	5.4 5.3	6.7 6.6	6.7 6.6	7.6
5	6.8 6.7	5.5 5.4	6.6 6.3	6.8 6.7	7.6
6	7.7	6.1 6.0	6.9 6.8	7.3	8.0
7	6.7 8.0	7.0 6.9	7.9	7.9	8.9
8	6.6	5.4 5.3	6.5 6.4	6.8 6.7	7.6
9	8.4	7.1 7.0	7.9	7.9	8.9
10	6.8 7.6	6.4 6.3	7.0 6.9	7.4	8.0
11	6.7	5.7 5.6	6.5 6.4	6.7 6.6	7.6
12	8.5	7.1 6.9	8.2	8.1	9.0
13	7.8	6.8	7.7	7.7	8.7

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1917phae.proj.1161R

Tuesday. April 17

Scale V

MF 567 – True

	Sc B	Sc C			Mag	
1	7.8	7.8	7.8000	2.52	10.32	21
2	8.8	8.9	8.8501	1.64	10.39	06
3	7.4 7.3	7.0	7.2321 2	3.12	10.35	02
4	6.7 6.6	6.7	6.7000	3.39	10.09	24
5	6.8 6.7	6.8	6.8000	3.38	10.18	15
6	7.6	7.7	7.6501	2.93	10.68	25
7	8.8	8.0	8.0000	2.17	10.17	16
8	6.8 6.7	6.7	6.7510	3.42	10.17	16
9	8.5	8.4	8.4510	2.19	10.64	31
10	7.7	7.6	7.6510	2.89	10.54	21
11	6.9 6.8.	6.8	6.8510	3.47	10.32	01
12	8.0* 8.6	8.5	8.5510	1.89	10.44	11
13	7.9	7.8	7.8510	2.31	10.16	17
					4.35	

10.33 mean mag.

* certainly wrong.

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1917phae.proj.1161R

Mean Maps from p. 29. (Weighted means)

c^4	8.03	(39)^B a	(14)^B		
d^4	7.93	(21)^B a	(10)^B		
e	8.70	(17)^B a	(51)^B		
f	9.07	(02)^B	09	09	
g	9.32	10	08	36	
h	9.59	01	20	38	
k	10.24	06	26	06	
l	10.50	05	.	04	
a^5	9.24	13	06	20	
b^5	9.34	12	20	31	
c^5	9.76	18	19	04	
d^5	9.75	a	.	.	

	UF281 Rz:90	UF282 Rz:97	UF283 Rz:109	UF281 Different images	UF282
a^4	.	6.65	6.68 6.66	6.66	6.66 a.
b^4	7.03	7.39	7.58 7.33 30 06 23	7.12 7.27	7.27 7.42 30 15 15
c^4	7.80	8.23	8.11 8.05 25 18 06	8.05 8.17	7.89 8.04 01 13 15
d^4	7.75	7.95	7.96 7.89 14 06 07	8.04 8.00	. 8.02 02 02 .
e	8.60	[8.83]	8.77 8.68 08 (15) 09	8.83 8.90	8.94 8.89 06 01 05
f	8.83	9.11	8.84 8.93 10 18 09	8.92 9.10	9.18 9.07 15 03 11
g	8.83	9.19	9.26 9.09 26 10 17	9.26 .	. 9.26 a. .
h	.	9.80	9.58 9.69 . 11 11	. .	. .
k	.	10.24	9.79 10.02 . 22 23	. .	. .
l	.	10.36	9.95 10.16 . 20 21	. .	. .

Weighted Means.

a^4	.
b^4	.
c^4	.
d^4	.
e	8.89 . a
f	9.07 . a
g	9.26 . a
h	9.69 a .
k	10.02 a .
l	10.16 a .

Final means —

a^4	.
b^4	.
c^4	8.03 a .
d^4	7.93 a .
e	8.80 10 09
f	9.07 . 00 00
g	9.29 03 03
h	9.64 05 05
k	10.13 11 11
l	10.33 17 17

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1917phae.proj.1161R

Thursday, April 19. 1917

Scale V

3:10 MD 3665 - (S Pegasi) Enronia Conf Stars + S Pegasi

Flat Sheet 43

P.C.

	Sc	B	Sc	C	Diff	Sc	B	Sc	C	Diff
a	5.9 5.8 5.5				1.99	8.9				-1.21
b	5.7				2.07	8.6				-1.03
c	6.8 6.7				1.65	9.7				-1.25
d	6.7 6.6				1.59	9.4				-1.11
e	7.6				1.35	def				.
f	6.9 6.8				1.55	9.5				-1.05
g			7.9		1.86	F				.
h			7.6		1.17	def.				.
k			8.0		1.75					
l			7.9		1.68	F				
m			8.6		1.58					

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1917phae.proj.1161R

Thursday, April 19, 1917

Scale

MD 3665 – Eluvania sup.

	Sc	B-Sc	C	Cu	Magn
a	6.7 6.6	1.60	8.30		
b	6.7 6.6	1.60	8.30		
c	7.1	1.54	8.64		
d	7.8	1.50	9.30		

P.C

Sc	B-Sc	C	Cu	Magn
9.1		-1.12		7.98
9.4		-1.12		8.28
9.8		.		.
9.9?		.		.

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1917phae.proj.1161R

Thursday, April 19, 1917

Scale V

Plot Sheet 43

MD 3792 - S Pegasi

	Sc	B Sc	Diff	P.C Sc	B Sc	Diff
a	5.9 5.8		1.79	9.4		-1.71
b	5.8 5.7		1.77	8.9		-1.33
c	7.0 6.9		1.45	10.0		-1.55
d	7.8 6.9		1.29	9.9		-1.61
e	7.9		1.05	F		
f	7.0 6.9		1.45	10.0		-1.55
g	8.1		1.66	F		
h	7.7		1.07	F		
k	8.7		1.05			
l	8.4		1.18			
m	9.2		0.98			

	Ur 11957	Prim. MD 3665	Images 3792		11957	P.C. 3665			Diff.
a	7.78	8.30	8.04	26 26	8.02	7.98	8.02	8.01 01 03 01	8.19
b	8.29	8.30	8.30	8.30 01 00 00	7.93	8.28	8.41	8.21 28 07 20	8.29
c	9.00	8.64	8.94	88 61 42 22 08	8.83		8.41	7 8.62 21 21	8.97
d	9.37	9.30	9.29	9.32 05 02 03	9.20		9.20 a..		9.42

Weighted means

a	8.05	01	04	14
b	8.26	04	05	03
c	8.80	06	18 05	17
d	9.32	00	12	12

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1917phae.proj.1161R

Thursday, April 19, 1917

Scale V

NGC 3792 - Emmonia seq.

P.C

	ScBScC	Cn	Mag.	ScBScC	Cn	Mag.
a	6.8 6.7 6.9 6.8	.		9.6	-1.58	8.02
b		1.40	8.30	10.0	-1.59	8.41
c	7.7	1.24	8.94	10.0?	-1.59	8.41?
d	8.1	1.19	9.29	F		

3;55

Reject a (primary in age) for distance

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1917phae.proj.1161R

Friday, April 20. 1917

Re-measures of Eunomia Comp-Stars -

Plate No	Star	Eq	Mags
MF137	d	5	9.4 9.0 9.20 2
	c	11	7.6 7.07.30 3
		12	8.8 8.4 8.60 2
		13	80 7.9 7.95 10
MF139	c	1	7.9
		4	7.6 7.67.70 2 1
		6	7.6 7.37.45 2
	d	1	8.9
		4	8.2 8.08.10 2
		6	8.4 8.18.25 2
MF140	c	9	8.0 7.8 7.90 2
		13	8.6 8.2 8.40 2
	d	9	8.8
		13	9.1 9.3 9.20 2 1
MF141	c	1	8.6 8.2 8.40 2
		2	8.0
		7	8.9 8.5 8.70 2
	d	1	9.1
		2	8.9
		7	9.5 9.1 9.30 2
MF143	c	3	8.9
		4	7.6 7.2 7.40 2
		6	7.2 6.9 7.05 2
	d	3	9.0
		4	8.6 8.2 8.40 2
		6	7.9
MF144	b	1	6.8
	c	1	7.1 6.8 6.95 2 1
	d	1	8.0

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1917phae.proj.1161R

Monday, April 23, 1917

Scale V

4'30 AC 16939 — Emmonia seq. 7 & γ Piscium

γ Piscium

	ScB	ScC	Diff
a	~~7.6~~ 6.7		2.40
b	6.8 6.9		2.80
c	6.9 7.0		3.07
d	7.8		2.37
e	7.8		2.48
f	8.0		2.63
g	7.9		2.86
h	8.7		2.24
k	8.9		2.48
l	9.7		1.93
m	9.5		2.42

Emmonia seq.

	ScB	ScC	Diff Cur	Magn
a'	7.0 6.9		2.72	9.72
b'	7.6		2.63	10.23
c'	7.9		2.58	10.48
d'	8.1		2.53	10.63

P.S

	AC16939	AC17021	AC16789	AC11337	Means	UF418 Plates on Pole
a'	9.72	9.93	10.06	9.65	9.84 12 09 22 19	8.86
b'	10.23	10.13	10.13	9.78	10.07 16 06 06 29	9.13
c'	10.48	10.21	10.31	10.28	10.32 16 11 01 04	9.89
d'	10.63	10.60	11.05	10.53	10.70 07 10 35 17	10.41

Reject magnitudes from UF418 - There was but one ref. on Pole 9.5m and one on asteroid 9.5m whereas the magnitudes on 4 AC plates depend on 2 accordant MC plates for γ Piscium.

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1917phae.proj.1161R

Monday, Apr. 23, 1917

Scale ✓

AC 17021 - ½ Piscium & Eumonia seq.

½ Piscium

	Sc	B Sc	C	Diff
	6.7			
a	6.6		240	
b	7.2		2.50	
c	7.6		247	
d	7.9		227	
e	8.4		1.88	
f	8.6		2.00	
g	8.9		1.86	
h	8.9		2.04	
k	9.6		1.78	
l	9.6		2.03	
m				

Eumonia seq.

	Sc	B Sc	C	Cu	Magn
a'		7.6	2.33		9.93
b'		7.9	2.23		10.13
c'		8.0	2.21		10.21
d'		8.6	2.00		10.60

5:05 ✓

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1917phae.proj.1161R

Tuesday. Apr. 24, 1917

Scale V

10:00 AC 16789 – γ Piscium & Eumonia

	γ Piscium ScBScCDiff		Eumonia ScBScCCu		Magn
a	6.9 6.8	2.20	a'	7.6	2.46	14.06
b	6.9 6.8	2.80	b'	7.7	2.43	10.13
c	7.0 6.9	3.07	c'	7.9	2.41	10.31
d	7.8	2.37	d'	8.6	2.45	11.05
e	7.9	2.38				
f	8.2	2.43				
g	8.3	2.46				
h	8.7	2.24				
k	8.7	2.68				
l	9.4	2.23				
m	9.1	2.82				

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1917phae.proj.1161R

Tuesday, April 24, 1917

Scale V

AC

~~AK~~ 1397 - γ Piscium + Eunomia sequence

γ Piscium

	ScBScC	Diff
a	6.9 (7.0)	220
b	7.6	2.10
c	7.9	2.17
d	8.6	1.57
e	8.9	1.38
f	9.0	1.63
g	9.2	1.56
h	9.7	1.24
k	9.9?	1.48
l	.	.
m	.	.

10135

Eunomia seq.

	ScBScC	Ca	Mag
a'	~~7.6~~ 7.6	2.05	9.65
b'	7.8	1.98	9.78
c'	8.6	1.68	10.28
d'	9.0	1.53	10.53

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1917phae.proj.1161R

Wednesday, April 24, 1917

Scale V

AC 16789- γ Piscium & Eimonian sequence

	γ Piscium ScB	ScC	Diff	Eimonian seq. ScB	ScC	Cu	Magn
a	6.7 6.6 7.0		240	a^7	7.3	249	9.79
b	6.9 6.9		270	b^7	7.7	248	10.18
c	6.8		3.17	c^7	7.9	247	10.37
d	7.8		237	d^7	8.6	248	11.08
e	7.9		238				
f	8.1		253				
g	8.0		276				
h	8.8		2.14				
k	8.8		258				
l	9.2		243				
m	9.3		2.62				

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1917phae.proj.1161R

Friday, Apr. 27, 1917

~~Alc~~ Enmonia –

Plate No	Magn	Remarks
MC 10950	9.1	Seq. 1 used and direct estimates need.
MC 10951	9.1	
MC 10953	9.0	
MF 523	11.0?	Seq for 68 K used – stars 5 + 6.

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1917phae.proj.1161R

Friday, Apr. 27, 1917

Eunomia — Nantucket plates — Seq. 1 under

Plate No	Eq.	Mag	Remarks
Na 255		8.5?	Poor images
Na 251	1	8.7	
	2	8.7	Diffuse
	3	8.8?	
	4	8.8?	
	5	8.9?	
Images are numbered in order from North end of plate. Na 250	1	8.8?	
	2	8.8	
	3	—	Impossible to estimate
Na 257	2	—	nc
Na 258	2	8.7?	
	3	8.7	
	4	8.8	
Na 259a	1	—	nc
	2	8.7	
	3	8.6?	
	4	—	nc
	5	8.5?	
Na 260	1	—	
	2	8.7	
	3	8.7	
	4	—	nc
Na 261	1	8.5	
	2	8.6	
	3	8.6	
	4	8.6	
	5	8.7	

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1917phae.proj.1161R

Friday. Apr. 27, 1917

Eunomia - Unstructed plates - Sep. 1 med.

Plate No	Exp.	Magn	Remarks
Na 262	1	8.8	
	2	—	nc
	3	8.8	
	4	8.8	
	5	8.7?	
Na 263	1	—	nc
	2	8.8	
	3	8.6?	
	4	8.7?	
Na 267	1		Images nc in density.
	2		
	3		
	4		
	5		
Na 268	1	8.5	Asteroid seems to be between a & b, but these stars are of the same magn. as the nearest tenths.
	2	8.5	
	3	8.5	
	4	8.5	
	5	8.5	
Na 269	1	8.5	
	2	8.5	
	3	8.5	
	4	8.6	
	5	8.6	
Na 270	1	8.8	
	2	8.7	
	3	8.8	

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1917phae.proj.1161R

Friday. Apr. 27. 1917

Euronia - Nantucket plates - seq. I used.

Plate No.	Exp.	Magn	Remarks
No 270	4	8.8	
	5	8.7	
	6	8.6	
	7	8.7	

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1917phae.proj.1161R

Tuesday, May 1, 1917

Scale V

11:30

First sheet 7

Eleonora & Comp Stars - MF 613

(Polar seq)

(Eleonora)

Reject - read from smoothed curve

	ScB	ScC		Diff		ScB	ScC		Cu	Magn
10	5.2 5.1	5.4	5.30 1, 1	3.72	1	6.8 8.8	8.7	8.75 10	1.69	10.44
11	5.9 5.8	6.9	5.90 00	3.65	2	6.7	6.8	6.80 00	3.56	10.36
12	6.5 6.4	6.3	6.40 1,	3.46	3	7.8	7.7	7.75 10	2.95	10.70
13	6.8 6.7	6.8	6.80 00	3.50	4	8.6	8.8	8.70 1 1	201	10.71
14	7.0 6.9	7.30	7.15 1, 2	3.50	5	6.9 6.8	6.9	6.90 00	3.59	10.49
15	7.8	7.8	7.80 00	3.28	6	8.4	8.5	8.45 01	1.99	10.44
16	7.9	8.0	7.95 01	3.45	7	7.9	7.8	7.85 10	280	10.65
17	8.2	8.0	8.10 1,	3.53	8	6.9 6.8	6.8	6.85 10	350	10.35
18	8.9	8.8	8.85 10	3.21	9		8.8	8.80 00	180	10.60
					10		7.8 7.9	7.85 01	284	10.69
					11		~~7.6~~ 7.2 7.0	7.10 1 1	303	10.13

	Sc	Cu	Magn
1	8.75	1.61	10.36
2	6.80	3.51	10.31
3	7.75	2.96	10.71
4	8.70	2.01	10.71
5	6.90	3.53	10.43
6	8.45	1.98	10.43
7	7.85	2.78	10.63
8	6.85	3.44	10.29
9	8.80	1.76	10.56
10	7.85	2.87	10.72
11	7.10	2.98	10.08

Mean 10.48 17 17 23 23 05 05 15 19 08 24 40

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1917phae.proj.1161R

Tuesday, May 1, 1917

Scale V

MF 613 - Eleonora + Comp. Stars

Sc	(a) ScBScC	(b) ScBScC	(c) ScBScC	(Eleonora) ScBScC
1	6.0 7.8	6.9 8.9	9.1	6.8 8.7
2	5.9	6.8	7.7	6.7
3	6.8 6.7	7.6	7.9	7.7
4	6.0 7.8	6.8 8.5	8.9	6.9 8.8
5	5.9	6.7	7.7	6.8
6	7.8	8.4	9.0	8.5
7	6.8 6.7	7.0 7.7	8.1	6.8 7.8
8	6.0 5.9	6.9	7.6	6.7
9	6.9 7.9	8.7	9.1	8.8
10	6.8	7.6	8.1	7.9
11	6.4 6.3	7.6	7.9	7.0

	Mean of ref. 2 + 8	Cu	Magn	alt. cor.	Cor. Magn
a	6.00 00	3.61	9.61	+.14	9.75
b	6.95 01	3.50	10.45		10.59
c	7.65 10	3.41	11.06		11.20

For final magnitudes see IPS 1114

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1917phae.proj.11618

Tuesday. May 1, 1917

Scale V

MF613 - Polar Sequence

ScBScC

10	5.4 3.3	5.9		
11	5.8	6.3		
12	6.2	6.8		
13	6.7	7.30 1/		
14	7.4	7.2		
15	7.8			
16	8.0			
17	8.0			
18	8.8			

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1917phae..proj..1161R

Tuesday, May 1, 1917

Scale ½

Plot sheet 7

MF614 – Polar Sequence + Elements

Rigid – from super-added Comps

	ScB	ScC		Diff		ScB	ScC			Cu	Magn
	6.5				1	def.	F	.		.	.
10	6.4	6.4	1.45	10 2.57	2	7.8	7.6	7.70	11	3.02	10.72
11	6.8	6.9	6.85	01 2.70	3	8.0	7.9	7.95	10	2.38	10.33
12	6.9	7.0	6.95	01 2.91	4	8.9	8.9	8.90	00	1.63	10.53
13	7.8	7.8	7.80	00 2.50	5	7.8	7.8	7.80	00	2.91	10.71
14	7.9	7.9	7.90	00 2.75	6	8.9	9.0	8.95	01	1.52	10.47
15	8.2	8.1	8.15	10 2.93	7	8.1	8.1	8.10	00	2.07	10.17
16	8.7	8.8	8.75	01 2.65	8	7.6	7.7	7.65	01	2.85	10.50
17	8.8	8.9	8.85	01 2.78	9	9.0	9.0	9.00	00	1.35	10.35
18	9.1	9.1	9.10	00 2.96	10	8.4	8.2	8.30	11	2.22	10.52
					11	7.9	7.8	7.85	10	2.82	10.67

	Sc	Cu	Magn
1	.	2.99	.
2	7.70	~~0.49~~	10.69
3	7.95	2.33	10.28
4	8.90	1.60	10.50
5	7.80	2.92	10.72
6	8.95	1.50	10.45
7	8.10	2.01	10.11
8	7.65	2.78	10.43
9	9.00	1.30	10.30
10	8.30	2.19	10.49
11	7.85	2.78	10.63

Mean 10.46 – 23 18 04 26 01 35 03 16 03 17

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1917phae.proj.11618

Tuesday, May 1, 1917

Scale V

MF614 —

	(a) ScBScC		(b) ScBScC	(c) ScBScC	(Eleonora) ScBScC
1	6.7	8.9	9.7	F	F
2	6.6		7.5	7.9	7.6
3		7.6	8.0	8.4	7.9
4		8.0	8.8	9.4	8.9
5	6.8 6.7		7.6	8.0	7.8
6		8.1	8.9	9.5	9.0
7	6.9	7.6	8.4	8.9	8.1
8	6.8		7.7	7.9	7.7
9		8.6	9.0	9.6?	9.0
10	6.9	7.7	8.1	8.9	8.2
11	6.8		7.7	8.1	7.8

	Mean Jeff. 288	Cu	Magn	act. Cor.	Cor. Magn.	MF613
a	6.80 ± 1	2.67	9.47	+.05	9.52	9.75
b	7.60 ± 1	2.72	10.32		10.37	10.59
c	7.90 00	2.73	10.63		10.68	11.20
					9.64 ± 1	
					10.48 ± 1	
					10.94 ± 3	

For final magnitudes see RS:114

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1917phae.proj.1161R

Tuesday, May 1, 1917

Scale V

MF 614 – Polar sequence

	ScB	ScC
10	6.3	6.9
11	6.8	7.0
12	6.9	
13	7.8	
14	7.9	
15	8.1	
16	8.8	
17	8.9	
18	9.1	

12:50

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1917phae.proj.1161R

Friday, May 4, 1917

Scale V

12:15

MF611 - Polar sequence + Victoria
(Polar Seq) (Victoria)

	Sc	BSc	C			Diff	X1	Sc	BSc	C	Sc		Cu	Magn
	6.9		7.0	9										
10	6.8		6.9	6.86	01	2.07	1	1		9.4	9.40	.00	0.66	[10.06]
11	7.1		7.0	7.0										
	7.0		6.9	6.95	10	2.50	2	8.6		8.6	8.60	00	.	.
12		7.6	7.7	7.65	01	2.21	3	8.8		8.9	8.85	01	.	.
13		7.9	7.9	7.90	00	2.40	4	9.8?		F	9.80?	a.	.	.
14		8.2	8.4	8.30	11	2.35	5	8.2		8.2	8.20	00	233	10.53
15		8.7	8.8	8.75	05	2.33	6	9.7?		9.7	9.70	00	.	.
16		8.9	8.9	8.90	00	2.50	7	8.8		8.8	8.80	00	2.01	10.81
17		9.3	9.7	9.50	±20	2.13	8	8.6		8.5	8.55	10	.	.
18		9.7?	9.6	9.65	10	2.41	9	F		F	F		.	.
							X2 10	def		8.9	8.90?	a	1.15	[10.05]
							11	8.4		8.6	8.8	8.60 ±02	2.07	10.67
							12	8.6		8.6	8.60	00	2.29	10.89
							13	F.9		9.2	9.05	12	.	.
							14	F		F	F		.	.
							15	8.9		8.9	8.90	00	1.76	10.66
							16	F		F	F		.	.

Mean 10.52 ~~46 01 29 47 15 37 14~~

Con. mean 10.71 " 05 " " 18 04 " " " 10 " 18 " " "

X1 Rejected - incomplete image

X2 " - image defective

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1917phae.proj.1161R

Friday. May 4, 1917

Scale V

Plate sheet 10

MF611 - Comp. Stars for Victoria

	(a) ScBScC	(b) ScBScC	(c) ScBScC	(Victoria) ScBScC	
1	9.4	9.7	F	9.4	
2	i	i	8.7	8.6	
3	8.4	8.7	9.0	8.9	
4	8.9	F	F	F	
5	7.8	8.3	8.6	8.2	
6	def.	F	9.3	9.7	
7	8.3	i	8.9	8.8	
8	i	8.7	8.7	8.5	
9	def	9.3	F	F	
10	8.9	9.2	9.3	8.9	
11	8.0	8.6	8.9	8.8	-8.6
12	7.8	i	8.7	8.6	
13	8.9	8.9	9.2	9.2	
14	F	def.	F	F	
15	8.6	8.7	9.4	8.9	
16	F	F	F	F	

	Means ref. 2,8,11,12	Cu	Magn	aff. Corr.	Corr. Magn	MF611
a	7.90 . . 1 1	2.34	10.24	-0.32	9.92	10.21
b	8.65 . 1 1 .	2.37	11.02		10.70	10.61
c	8.75 1 1 2 1	2.38	11.13		10.81	11.16

Means

a	10.06	14	15
b	10.66	04	05
c	10.98	17	18

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1917phae.proj.1161R

Friday. May 4, 1917

Scale V

MF611 – Polar seq

ScBSaC

10	7.0 6.9		
11	* 7.4	7.0 – 6.9	
12	7.7		
13	7.9		
14	8.4		
15	8.8		
16	8.9		
17	9.7	9.5	
18	9.6		

1:00

x certainly wrong – I think there is a defect near star 7 on second scale.

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Friday, May 4, 1917

Scale 3:45

Plot sheet 10

MF610 - Polar seq. (Polar seq.) & Victoria (Victoria)

	ScBScC			Diff		ScBScC	Sc	Cu	Magn
10	5.9 5.8	5.8	5.80 00	3.12	1	9.2 9.4	9.30 11	1.52	10.82
11	6.8 6.7	6.4	6.65 10	2.80	2	8.8 8.1	8.75 10	.	.
12	6.9 6.8	6.8	6.80 00	2.96	3	8.6 8.1	8.65 01	2.09	10.74
13	7.8	7.6	7.70 11	2.60	4	8.8 8.9	8.85 01	1.45	10.30
14	7.8	7.9	7.85 01	2.80	5	F .	.	.	.
15	8.6	8.3	8.45 21	2.63	6	8.9 8.9	8.90 00	.	.
16	8.6	8.6	8.60 00	2.80	7	F .	.	.	.
17	8.9	8.9	8.90 00	2.73	8	9.6 9.2	9.40 22	1.26	10.66
18	9.6	9.6	9.60 00	2.46	9	8.6 8.4	8.50 11	.	.
					10	F .	.	.	.
					11	F .	.	.	.

Mean 10.63 19 11 33 03 " " "

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1917phae.proj.1161R

Friday, May 4, 1917

Scale V

MF 610 – Comp Stars for Victoria cor. corr. −0.40 (Victoria)

	ScBScC (a)	ScBScC (b)	ScBScC (c)	ScBScC
1	8.9	9.1 / 8.05 ± 2	9.3	9.4
2	7.9	7.9 8.2	8.8	8.7
3	7.8?	8.6	8.9	8.7
4	8.9	8.9	9.6	8.9
5	F	F	F	F
6	8.7	8.7	8.9	8.9
7	F	F	F	F
8	8.9	9.4	def.	9.2 def.?
9	1	1	9.1	8.4
10	F	F	F	F
11	F	F	F	F

	Mean ref. 2, 3, 9	Cu	Magn	cor. Cor.	Cor. Magn
a	7.85 ± 1.	2.76	10.61	−0.40	10.21
b	8.32 ± 3.	2.69	11.01		10.61
c	8.93 ± 00	2.63	11.56		11.16

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1917phae.proj.1161R

Friday. May 4, 1917

Scale V

MF610 - Pola sequence

ScBScC

	5.9	
10	5.8	
	6.7	
11	6.6	
	6.9	
12	6.8	
13	7.6	
14	7.9	
15	8.3	
16	8.6	
17	8.9	
18	9.6	

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1917phae.proj.1161R

Saturday, May 5, 1917

Scale V

10:15 ME547- June (a) + Comp (b) 5 stars (c) (d)

	ScBScC	ScBScC	ScBScC	ScBScC	ScBScC
1	9.7	8.9	9.8?	9.8?	F
2	7.9	7.5	8.1	8.6	9.2
3	7.0 6.9	6.5 6.4	6.9 7.7	7.6	8.5
4	6.8 6.7	6.1 6.0	6.8	6.4 6.8	7.9
5	8.1	7.7	8.4	8.6	9.2
6	7.7	6.9 6.8	7.7	6.8 7.7	8.5
7	6.9 6.8	6.2 6.1	6.8 6.7	6.7	1
8	7.0 6.9	6.1 6.0	6.9 6.8	6.9 6.8	8.3
9	7.7	6.9 6.8	7.6	7.9	8.6
10	8.6	8.0	8.6	8.9	9.6?
11	x 8.4 6.9 6.8	6.7 6.6	7.0 6.9	7.6	7.9
12	x 6.7 def.	8.0	8.8	8.9	F
13	6.9 7.9	7.0 6.9 6.7	7.9 7.0	7.9	8.9
14	6.8	6.6	~~7.3~~ 6.9	7.2	7.9
15	8.8	7.9	8.8	8.9	F
16	7.6	7.0 6.9	8.0	7.9	8.8
17	7.9	7.7	8.4	8.3	8.9

x wrong ~~star~~ image

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1917phae.proj.1161R

Saturday. May 5, 1917

Scale V

MF547 - Trace

	ScBScC				Cu Mags	
1	9.8		9.7	9.75 10	.	.
2	7.8	6.9	7.9	7.85 01	1.63	9.48 32
3	6.8 7.5	6.8	7.0	7.13 42 1	2.39	9.62 22
4	6.7		6.8	6.80 00	3.23	10.03 23
5	8.6	8.3	8.1	8.33 30 2	.	.
6	6.9 7.7		7.7	7.7000	2.30	10.00 20
7	6.8		6.9	6.9000	3.22	10.12 32
8	7.0 6.9		7.0	7.0000	3.04	10.04 24
9	7.7		7.7	7.7000	2.22	9.92 12
10	7.0 8.8		8.6	8.70 11	1.22	9.92 12
11	6.9		6.9	6.95 10	2.58	9.53 27
12	8.7		.	8.70 2.	1.12	9.82 02
13	7.0 7.8		7.9	7.85 01	2.10	9.95 15
14	6.9		6.9	6.95 10	2.71	9.66 14
15	8.6		8.8	8.70 11	1.12	9.82 02
16	7.7		7.6	7.65 01	2.08	9.73 07
17	8.0		7.9	7.95 10	1.50	9.45 35
						.99

9.80 mean mag.

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1917phae.proj.1161R

Saturday. May 5. 1917

Scale V

MF548 - Polar sequence & Iris (Iris)

	SaB	ScC		Diff		SaB	ScC		Cu	Mag
9	5.7 (5.8)	5.5	5.65	2	3.18					
10	5.6 (5.7)	5.7	5.70	0	3.32					
11	sn	-	.	.	.					
12	6.8	6.7	6.75	1	3.11					
13	6.9 (7.0)	6.9	6.95	1	3.35					
14	7.7	7.6	7.65	1	3.00					
15	7.8	7.8	7.80	0	3.28					
16	7.9	8.0	7.95	0	3.45					
17	8.2	8.0	8.10	1	3.53					
18	8.7	8.9	8.80	1	3.26					
1	6.2 (6.3)	6.3	6.30	0	3.18				9.48	3
2	5.9 (6.0)	6.1	6.05	0	3.58				9.63	1
3	6.9 (7.0)	6.9	6.95	1	3.01				9.96	1
4	7.9	7.8	7.85	1	2.13				9.98	1
5	6.7 (6.8)	6.7	6.75	1	3.48				10.23	4
6	7.9	7.9	7.90	0	1.99				9.89	0
7	6.8 (6.9)	6.9	6.90	0	2.93				9.83	0
8	6.6 (6.7)	6.3	6.50	2	3.21				9.71	0
9	7.9	7.9	7.90	0	1.98				9.88	0
10	6.8 (6.9)	7.0	6.95	0	2.61				9.56	2
11	6.3 (6.4)	6.2	6.30	1	3.43				9.73	0
12	6.9 (7.0)	7.0	7.00	0	2.69				9.69	1

9.57

9.81

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1917phae.proj.1161R

Saturday. May 5, 1917

Scale V

Alt. corr. +0.16

MF 548 – Irreg + Comp Stars –

	(a²) ScB ScC	(b²) ScB ScC	(c²) ScB ScC	(d²) ScB ScC	(Irreg) ScB ScC
	6.0	6.7	6.7		6.3
1	5.9	6.8	6.6	7.8	6.2
	5.5	6.3	6.6		6.1
2	5.4	6.2	6.5	7.7	6.0
	6.0	7.0	7.0		6.9
3	5.9	6.9	6.9	8.0	6.8
	7.0				
4	6.9	7.9	7.9	8.9	7.8
	5.2	6.3	6.9		6.7
5	5.1	6.2	6.6	7.7	6.6
	7.0				
6	6.9	8.0	8.0	8.9	7.9
	6.1	7.0	7.1		6.9
7	6.0	6.9	7.0	8.0	6.8
	5.8	6.7	6.9		6.3
8	5.7	6.6	6.8	7.6	6.2
	7.1				
9	7.0	7.9	8.1	8.9	7.9
	6.7	7.0			7.0
10	6.6	6.9	7.5	8.4	6.9
	5.8	6.2	6.9		6.2
11	5.7	6.1	6.8	7.8	6.1
	6.3	7.0			7.0
12	6.2	6.9	7.8	8.4	6.9

	Mean Jeff. 2, 8, 11	Cu	Mag.	Corr. Mag.
a^2	5.70 ± 14	3.26	8.96	9.12
b^2	6.40 ± 32	3.23	9.63	9.79
c^2	6.80 ± 11	3.21	10.01	10.17
d^2	7.10 ± 01	3.28	10.98	11.14

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1917phae.proj.1161R

Saturday, May 5, 1917

Scale V.

MF548 - Plan segment

	ScB	ScC
9	5.5 5.7 5.7	
10	5.6	
11	sur-	
12	6.7 6.6	
13	6.9 6.8	
14	7.6	
15	7.8	
16	8.0	
17	8.0	
18	8.9	

12:35

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1917phae.proj.1161R

Monday. May 7, 1917

Scale V

11:45 MT-486 — (Polar cap.)

Perf sheet 12

Polar sequence — Nutis — Massalia

	Sc	B	Sc	C
8	2.9 2.8			
9	3.9 3.8			
10	4.3 4.2			
11	5.0 4.9			
12	6.0 5.9			
13	6.7 6.6			
14	6.8 6.7			
15	7.0 6.9			
16	7.1			
17	7.9			

Nutis

	Sc	B	Sc	C	Cu	Magn
1	6.0 5.9	5.8	5.90	1±	4.16	10.06
2	6.8 6.7	6.9	6.85	0	13.10	9.95
3	8.1	8.0	8.05	10	.	.
4	6.7 6.6	6.4	6.75	01	3.47	10.22
5	7.9	7.9	7.90	00	1.98	9.88
6	7.0 6.9	7.0	7.6	7.20	2±4	. .
7	6.2 6.1	6.6	6.40	2±	2 3.58	9.98
8		9.0	9.1	9.05	01	. .

Massalia

	Sc	B	Sc	C	
1	5.5 5.4		5.7	5.60	± 1
2	6.4 6.6	6.3	6.5	6.45	01
3	7.0 6.9	7.4	7.0	7.13	± 3 ±
4	5.9 5.8		5.9	5.90	00
5	7.980			7.95	01
6	6.7 6.6	6.8		6.75	01
7	6.0 5.960			6.00	00
8					

Nutis Mean .. 10.02 04 07 20 14 04 ..

Massalia Mean ~~9.66 20 04 46 02 25 .. 05~~

Con. mean 9.77 11 13 .. 11 16 04

	Cu	Magn
1	4.28	9.88
2	3.19	9.64
3	2.09	9.22 X
4	3.76	9.66
5	1.98	9.93
6	.	.
7	3.73	9.73
8	.	.

X To measure images of Massalia + comp. stars I turned the plate S end up but measured images in position as

x Reject. - read from incomplete curve

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1917phae.proj.1161R

Monday, May 7, 1917

Scale V

MF 486 - Uncles Comp. Stars

	(a) Sc B	Sc C	(b) Sc B	Sc C	(c) Sc B	Sc C
	4.0		6.0		7.0	
1	3.9		5.9		6.9	
2	5.7		7.0		7.9	
	5.6		6.9			
	7.0					
3	6.9		8.0		def.	
	4.8					
4	4.7		6.7		7.4	
		7.1	6.6			
5		7.0	def.		9.0	
	6.3					
6	6.2		7.6		8.0	
	4.7		6.7			
7	4.6		6.6		7.2	
	~~8.9~~					
8	8.8		F		F	

	Means exp. 1,7	Cu	Magn	Add. Cor.	Cor. Magn.	R5:86
a	4.35 ± 4	4.69	9.64	+0.16	9.20	9.08
b	6.35 ± 4	3.78	10.13		10.29	9.94
c	7.10 ± 1	3.73	10.83		10.99	10.96

Weighted means.

a 9.11 09 03

b 10.03 26 09

c 10.97 02 01

Magnitudes from R5:86 given weight of 3 because they depend upon 3 accord and MC plates.

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1917phae.proj.1161R

Monday, May 7, 1917

Scale V

MF 486 – Nassalin Conf / Stars

	(a) ScBScC	(b) ScBScC	(c) ScBScC
	3.5	4.7	5.9
1	3.4	4.6	5.8
	4.5	6.4	6.8
2	4.4	6.3	6.7
	5.8	6.9	7.9
3	5.7	6.8	6.9
	3.7	4.9	5.9
4	3.6	4.8	
	5.9	6.8	8.0
5	5.8	6.7	7.0
	4.8	5.7	6.9
6	4.7	5.6	6.5
	3.9	4.9	6.4
7	3.8	4.8	
8	7.8	8.9	F

	Mean] ext. 1.7	Cu	Magn	alt. Con.	Con. magn.
a	3.70 ± 2	4.97	8.67		
b	4.80 ± 1	4.51	9.31		
c	6.20 ± 3	3.83	10.03		

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1917phae.proj.1161R

Monday, May 7, 1917

Scale V

MF 488 – Massalia – Mutis – Polarsequ.

	(Massalia) ScBScC	(Mutis) ScBScC	ScBScC	Mean	
	5.1	5.8	3.0		
1	5.6	5.7	2.9	2.9	2.95 10 5.28
	6.5	6.9	3.9		
2	6.4	6.9	3.8	3.9	3.9000 4.93
3	7.4 6.9 7.0 x	8.0	4.7		
	5.9	6.8	4.6	4.3	4.5022 4.52
4	5.8	6.7	5.2		
			5.1	5.0	5.1011 4.45
5	6.8 8.0	7.9 7.0	5.9		
			5.8	6.0	5.9501 3.91
6	6.7	6.6 7.6 6.9	6.6		
	6.0		6.5	6.7	6.6501 3.65
7	5.9	6.5	6.9		
			6.8	6.8	6.8510 3.80
8	F	9.1			
15			7.6	7.6	7.6702 2.43 3.68
16			7.6 7.7	7.7	7.7502 2.43 3.90
17			7.9	7.9	7.9000 3.73

12:45

x Images large but not dense

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1917phae..proj.11616

Monday, May 7, 1917

Scale V

Field sheet 12

	MT-4+7- (Metis)	Metis + (a)	Comp 5 Fons (b)	(c)
	ScBScC	ScBScC	ScBScC	ScBScC
1	6.2 8.6	7.0 6.9	6.3 8.6	7.0 9.1
2	6.1 5.9	4.8 4.7	6.2 5.9	6.9 6.7
3	5.8	4.7 4.0 3.9	5.8	6.6 7.0
4	6.0 5.9	3.9 3.8	6.0 5.9	6.9
5	6.8 6.7	5.1 5.0	6.8 6.7	7.8
6	7.8	6.8 6.7	7.8	8.4
7	6.3 6.2	4.2 4.1	5.8 5.7	6.8 6.7
8	7.9	6.7 6.6	7.6	8.2
9	6.8 6.7 5.7	5.2 5.1	6.9 6.8 5.9	6.8 7.7
10	7.8	4.0 3.9	5.8	6.7
11	8.0	6.9 6.8	7.8	8.8
12	F	8.6	F	F

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Monday. May 7, 1917.

Scale

Sp. end of –

MF 487 – Massalia + Comp Stars

(Massalia)

	ScB	ScC	(a) ScB	ScC	(b) ScB	ScC	(c) ScB	ScC
1		8.7	7.0			7.7		8.9
2	6.3		6.9		4.9		6.2	
3	6.2		4.0		4.8		6.1	
4	5.7		3.9		4.4		5.6	
5	5.6		3.7		4.3		5.9	
6	5.9		3.6		4.8		6.0	
7	5.8		3.8		4.7		5.9	
8	6.7		3.7		5.3		6.7	
9	6.6		4.9		5.2		6.6	
10		7.2	4.8					
11	5.8		5.9		def		6.0	7.9
12	5.7		5.8		4.9		5.9	
13			3.8		4.8			
14		7.6	3.7		6.7			7.7
15	6.4		5.8		6.6		6.8	
16	6.3		3.7		5.7		6.7	
17	5.7		4.7		5.6		5.7	
18	5.6		4.6		4.8		5.8	
19			3.8		4.7			
20		7.7	3.7		7.0			7.9
21	F		6.10		6.9		F	
22			5.9					
23			8.1		F			

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Monday, May 7, 1917

Scale 1

Plot sheet 12

NE487 – Metis + Massalia
(Metis) (Massalia)

	ScB	ScC		Cu	Magn	ScB	ScC		Cu	Magn
1	6.8	8.6	8.6	8.60 00	1.59 10.17	8.9	8.7	8.80 1	1.59	10.39
2	6.7 6.4	6.3	6.2	6.47 3	3.79 10.26	6.5 6.4	6.3	6.40 1	3.79	10.19
3	5.9 5.8		5.9	5.90 00	4.20 10.10	5.8 5.7	5.7	5.75 10	4.23	9.98
4	6.1 6.0		6.0	6.05 10	4.09 10.14	5.9 5.8	5.9	5.90 00	4.12	10.02
5	6.9 6.8		6.8	6.85 10	3.28 10.13	6.8 6.7	6.7	6.75 10	3.30	10.05
6		7.9	7.8	7.85 10	2.31 10.16		7.8 del.	7.27.50 3	2.29	9.79
7	6.1 6.0		6.3	6.20 1	4.18 10.38	5.9 5.8	5.8	5.85 10	4.25	10.10
8		7.8	7.9	7.85 01	2.57 10.42		7.4	7.6 7.50 1	2.46	9.96
9	6.9 6.8		6.8	6.85 10	3.19 10.04	6.7 6.6	6.4	6.55 2	3.29	9.84
10	6.0 5.9		5.9	5.95 10	4.18 10.13	5.1 5.6	5.7	5.70 00	4.22	9.92
11		7.9	8.0	7.95 01	2.20 10.15		7.7	7.7 7.70 00	2.21	9.91
12	F	F	F	.	.	F	F	F	.	F

Metis Mean ~~10.18 01 08 08 04 05 02 20 24 14 05 03~~.

10.19 02 07 09 05 06 03 19 23 15 06 04 ..

3:15

Massalia Mean 10.01 38 18 03 01 04 22 09 05 17 09 10 ..

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1917phae.proj.1161R

Monday, May 7, 1917

Scale 1' = 3.15

UF488 - Nucleus + Comp. Stars -

	(Nucleus)	(a)	(b)	(c)
	ScBScC	ScBScC	ScBScC	ScBScC
1		6.7		
		6.6		6.8 8.8
	7.8	4.2	5.3 7.6	
2	5.0	4.1	7.2	6.7
	4.9	3.4	6.8	6.7
3	5.8	3.8	5.7	6.6
	5.7	5.3		
	6.4	5.4	6.8	
4	6.6		6.7	7.6
		6.7		
	7.6	6.6	7.2	8.6
5	5.6	4.7	6.0	6.9
6	5.5	4.6	5.9	6.8
		7.0		
7	7.6	6.9	7.9	8.6
	6.7	5.2	6.8	~~7.7~~
8	6.6	5.1	6.7	7.6
	6.0	4.5	6.0	6.9
9	5.9	4.4	5.9	6.8
		6.7		
10	7.9	6.6	7.9	8.2
	7.0	5.8	7.0	~~7.8~~
11	6.9	5.7	6.9	7.7
	7.0	6.0	6.9	
12	6.9	5.9	6.8	7.9

For the first image I used the lower one of the two - i.e., the one in line with the other exposures.

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Monday. May 7, 1917

Scale V

Plate sheet 12

UF488- Marmalia + Comp. 5 stars
(Marmalia) (a) (b) (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	7.8	5.8	6.8	
	5.0	5.7	6.1	8.3
2	4.9	3.7	4.0	5.8
	5.0	3.6	3.9	6.7
3	4.9	3.7	4.1	5.8
	6.0	3.6	4.0	5.7
4	5.9	4.8	5.7	6.8
	7.0	4.7	5.6	6.7
5	6.9	5.9	6.9	
	5.6	5.8	6.6	7.8
6	5.5	3.8	4.8	5.9
	7.0	3.7	4.7	5.8
7	6.9	6.0	6.1	
	6.0	5.9	6.6	7.7
8	5.9	4.5	5.7	6.8
	5.5	4.4	5.6	6.7
9	5.4	3.9	4.8	5.9
		3.8	4.7	5.8
10	7.5	6.0	6.7	
	6.7	5.9	6.6	7.9
11	6.6	4.8	5.8	6.9
	6.8	4.7	5.7	7.0
12	6.7	4.9	5.9	
		4.8	5.8	6.9

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Monday, May 7, 1917

Scale V

MF 484 – Metis & Massalia

(Metis) (Massalia)

	Sc	B	Sc	C	Cu	Magn	Sc	B	Sc	C	Cu	Magn
1	5.1	7.9	7.8	7.85	10	2.36	10.21	4.9	7.9	7.8	7.85	10	2.36	10.21
2	5.0		5.0	5.05	10	4.77	9.82	4.8		5.0	4.95	01	4.78	9.73
3	5.8 5.7		5.8	5.80	00	4.27	10.07	5.4 5.3		5.0	5.20	22	4.50	9.70.
4	6.7 6.6		6.7	6.70	00	3.28	9.98	6.4 6.3		6.0	6.20	22	3.89	9.59
5	7.6		7.6	7.60	00	~~3.20~~ 2.70	~~10.80~~ 10.30	7.0 6.9		7.0	7.00	00	3.13	10.13
6	5.8 5.7		5.6	5.70	11	4.11	9.81	5.8 5.7		5.6	5.70	11	4.11	9.81
7	7.8	7.6	7.70	11	2.13	9.83	7.0 6.9		7.0	7.00	00	2.09	9.09	
8	6.8 6.7		6.7	6.75	10	3.29	10.04	6.3 6.2		6.0	6.15	21	3.48	9.63
9	6.0 5.9		6.0	6.00	00	4.09	10.09	5.7 5.6		5.5	5.60	11	4.19	9.79
10	7.9	7.9	7.90	00	2.36	10.26		7.8	7.5	7.65	21	2.30	9.95	
11	6.9 6.8		7.0	6.95	01	3.10	10.05	6.7 6.6		6.7	6.70	00	3.11	9.81
12	7.1 7.0		7.0	7.05	10	3.11	10.16	6.9 6.8		6.8	6.85	10	3.12	9.97

Metis Mean ~~10.09 12 27 02 11 29 28 26 05 00 17 04 07~~

71

Cor. mean 10.05 16 23 02 07 25 24 22 01 04 210011

4:35

Massalia Mean 9.78 43 05 08 19 35 03 69 31 15 11 17 03 19

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1917phae..proj..1161R

Tuesday, May 8, 1917

Scale V

Test sheet 13

9:20 MF489 - Metis + ~~Nemesia~~ Comp 5 stars -
(Metis) (a) (b) (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	9.0	7.9	8.9	F
2	6.8 6.7	4.7 4.6 5.5	6.7 6.6	7.8
3	7.3	5.4	7.0 6.9	8.0
4	8.6	7.1 7.0	i	9.4
5	7.0 6.9	5.5 5.4	6.9 6.8	7.8
6	8.6	6.8 6.7	7.9	8.7
7	7.0 6.9	5.5 ~~6.9~~ 5.4	6.9 6.8	7.9
8	i	4.9 4.6	6.7 6.6	i
9	F	i	F	F
10	F	Def.	F	F
11	F	Def.	8.8	F
12	7.9	6.1 6.6	7.6	8.8
13	F	7.8	8.9	F
14	F	9.0	F	F
15	i	i	i	7.8
16	i	i	i	F
17	F	8.3	9.0	F

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1917phae.proj.1161R

Tuesday. May 8. 1917

Scale V

MF 489 - Massalia & Comp. 5 stars

	(Massalia) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
1	8.7	6.9 6.8	4.7 7.8 7.5 7.65 21	8.9
2	5.7 5.6	3.9 3.8	4.6 4.6 4.65 10	6.0
3	6.0 5.9	4.8 4.7	5.9 5.8 5.3 5.7 5.63331	6.9
4	8.2	6.8 6.7	7.0 6.9 7.0 7.0000	8.8
5	6.0 5.9	4.7 4.6	5.4 5.3 5.0 5.0 5.13311	6.9
6	7.1	5.8 5.7	6.7 6.6 6.7 6.7000	7.7
7	5.9 5.8	4.8 4.7	5.2 5.1 5.0 5.1011	6.8
8	5.8 5.7	3.9 3.8	4.9 4.8 5.0 4.9501	6.7
9	F	8.1	1 . .	.
10	F	8.0	8.9 8.7 8.8011	.
11	8.6	6.3 6.2	6.0 7.4 7.1 7.2521	.
12	7.0 6.9	5.2 5.1	5.9 5.9 5.95 10	7.2
13	F	6.9 6.8	7.8 . 7.80 a.	8.9
14	F	8.6	F . .	.
15	6.7 6.6	4.7 4.6	1 . .	6.8
16	F	6.5 6.4	1 . .	.
17	F	7.7	7.9 8.0 7.9501	.

For observations of (c) see p. 152

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Tuesday, May 8, 1917

MF489 - Metis & Massalia
(Metis) (Massalia)

Magn		ScBScC			CcBScC				Cu	Magn
.	1	6.6 9.0	9.0	9.0000 .	5.8 8.7	8.7	8.7000		1.15	9.85
10.10	2	6.5	6.8	6.70 1 3.40	5.7	5.7	5.75 10		3.83	9.58
10.45	3	7.6	7.3	7.45 2 1 3.00	6.5 6.4	6.4 6.0	6.3322 3		3.26	9.59
9.94	4	8.9	8.6	8.75 2 1 1.19	8.4	8.2	8.301 1		1.27	9.57
10.14	5	6.9 6.8	7.0	6.95 0 13.19	6.3 6.2	6.0	6.15 2 1		3.38	9.63
[10.80]	6	8.6	8.6	8.6000 2.20	7.1	7.1	7.1000		2.27	9.37
10.11	7	6.9 6.8	7.0	6.95 01 3.16	6.0 5.9	5.9	5.95 10		3.43	9.38
10.04	8	6.7 6.6	i	6.70 a 3.34	5.9 5.8	5.8	5.85 10		3.78	9.63
.	9	F	F	.	F	F	.		.	.
.	10	F	F	.	F	F	.		.	.
.	11	F	F	.	8.0 8.2	8.6	8.27 3 1 3		.	.
10.41	12	8.3	7.9	8.10 2 2 2.31	7.0 6.9	7.0	7.0000		2.43	9.43
10.03	13	8.9	F	8.90 a 1.13	F	F	.		.	.
.	14	F	F	. .	F	F	.		.	.
.	15	i	i	. .	6.8 6.7	6.7	6.75 10		.	.
.	16	—	i	. .	8.4 ?	+/	8.40? a		.	.
.	17	—	F	. .	9.0	+/	9.00? a		1.02	10.02 X

(Metis)
Mean (10.22 12 23 28 08 58 11 18 19 19 . . . . .
Cou. mean 10.15 05 30 21 01 04 11 26 12

X Reject — incomplete curve

(Massalia)
Mean 9.60 25 02 01 03 07 23 22 03 . . . 17 42
Cou. mean 9.55 30 03 04 02 02 18 17 08 12

R - image too-rejected.

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Tuesday, May 8, 1917

Scale V

NFH90 - Nutis & Comp Stars

	(Nutis) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
	def.	i	i	i
1	7.1	6.0	7.0	
2	7.0	5.9	6.9	8.6
	6.5	5.6	6.7	
3	6.4	4.9	6.6	7.6
	5.7	4.5	5.8	6.8
4	5.6	4.4	5.7	6.7
	5.9	4.8	5.8	6.9
5	5.8	4.7	5.7	6.8
	6.9	5.3	6.7	
6	6.8	5.2	6.6	7.8
		6.3		
7	7.6	6.2	7.8	8.9
	5.8	4.8	6.0	7.0
8	5.7	4.7	5.9	6.9
		6.9		
9	7.9	7.8 6.8	7.9	8.8
	6.9	5.8	6.8	
10	6.8	6.7 5.7	6.7	7.6
	6.0	4.9	6.0	7.0
11	5.9	5.8 4.8	5.9	6.9
		7.0		
12	8.0	8.0 6.9	8.0	8.9
	6.9	5.8	6.8	
13	6.8	6.8 5.7	6.7	7.9
	7.0	6.0	6.9	
14	6.9	7.0 5.9	6.8	7.9

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1917phae.proj.1101R

Tuesday, May 1, 1917

Scale V

Plot sheet 17 490

MF 490 - (Maranlin) Maranlin & Comp. Stars

	ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
1	4.7 4.6	2	2	5.0 4.9
2	def.	3.9 3.8	5.8 5.7	7.2
3	5.8 5.7	3.4 3.3	4.10 3.9	5.9 5.8
4	4 4.9 8.8	3.0 2.9	3.8 3.7	4.8 4.7
5	4.8 4.7	3.0 2.9	3.9 3.8	5.6 4.9
6	5.8 5.7 O.K.	3.7 3.6	4.7 4.6	6.0 5.9
7	def	4.8 4.7	5.9 5.8 ?	+
8	4.9 4.8	2.9 2.8	3.9 3.8	5.8 5.7
9	def	4.9 4.8	6.0 5.9	+
10	5.9 5.8	3.7 3.6	4.8 4.7	6.5 6.4
11	4.9 4.8	3.0 2.9	3.9 3.8	5.7 5.6
12	def	4.9 4.8	+	7.9 6.5
13	5.9 5.8	3.9 3.8	5.0 4.9	6.4 6.8
14	6.0 5.9	3.9 3.8	4.9 4.8	6.7

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Tuesday, May 8, 1917

Scale V

MF 490 — Metis + Massalia
(Metis) (Massalia)

	Sc	B	Sc	C		Cu	Magn	Sc	B	Sc	C		Cu	Magn
1	def.							4.3 4.2	4.1	4.50	±2			
2	7.2	7.1	7.15	10	2.93	10.08		def. 5.8						
3	6.4 6.3 5.5	6.5	6.45	01	3.49	9.94		5.7	5.8	5.80	00	377	9.59	
4	5.4	5.7	5.60	±1	4.29	9.89		4.1 4.6	4.9	4.80	±1	452	9.32	
5	5.7 5.6	5.9	5.80	±1	4.21	10.01		4.8 4.7	4.8	4.80	00	432	9.12	
6	6.4 6.3	6.9	6.65	±3	3.39	10.04		5.8 5.7	5.8	5.80	00	363	9.43	
7	7.7 5.9	7.6	7.65	10	2.31	9.96		def.						
8	5.8	5.8	5.85	10	4.08	9.93		4.8 4.7	4.9	4.85	01	429	9.14	
9	7.9	7.9	7.90	00	2.15	10.05		def.						
10	6.8 6.7	6.9	6.85	01	3.29	10.14		5.8 5.7	5.9	5.85	01	330	9.15	
11	6.0 5.9	6.0	6.00	00	4.04	10.04		4.8 4.7	4.9	4.85	01	421	9.06	
12	8.0 6.9	8.0	8.00	00	2.02	10.02		def.						
13	6.8	6.9	6.90	00	3.20	10.10		5.8 5.8	5.9	5.90	00	330	9.20	
14	7.1 7.0	7.0	7.05	10	3.12	10.17		5.9 5.8	6.0	5.95	01			

Mean 10.03" 05 09 14 02 01 07 10 02 11 01 01 07 14
(Metis)

11:55

Mean 9.25 .. .. 32 07 13 18 .. 11 .. 10 19 .. 05 ..
(Massalia)

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1917phae.proj.1161R

Tuesday, May 8, 1917

Scale V

MF 491 – Metis & Comp. Stars

	(Metis) ScB	ScC	(a) ScB	ScC	(b) ScB	ScC	(c) ScB	ScC
1	6.7	7.6	6.3 6.2		6.0	7.1	7.0	8.3
2	6.6		3.8 3.7		5.9		6.9	
3		7.6	5.7 5.6		7.0 6.9			7.8
4	6.8	8.2	6.9 6.8		6.2	7.8		8.9
5	6.7		4.7 4.6		6.1			7.2
6	7.0	8.1	5.8	7.1	7.9			8.9
7	6.9		5.7 4.8		6.7	7.0		7.9
8	i		4.7		6.6			7.2
9		8.1	1		7.9			9.0
10	6.7	7.7	6.4 6.3		7.2 6.8			8.0
11	6.6		4.7 4.6		6.7			7.8
12		7.6	6.9 6.8		7.8			8.9

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1917phae.proj.1161R

Tuesday, May 8, 1917

Scale V

MF 491 – Massalia & Comp. 5 stars
(Massalia) (a) (b) (c)

	Sc	BSc	C	Sc	BSc	C	Sc	BSc	C	Sc	BSc	C
		6.9			5.1			6.2				
1		6.8			5.0			6.1			7.8	
		3.8			3.8			4.9		6.1		
2		3.7			3.7			4.8		6.8		
		6.7			4.8			6.0		7.8		
3		6.6			4.7			5.9		6.9		
					6.3			7.0				
4		7.6			6.2			6.9			7.8	
		6.0			4.5			5.1		6.4		
5		5.9			4.4			5.0		6.3		
					6.2			7.1				
6		6.7	7.9		6.1			7.0			8.0	
					5.0			6.0		7.0		
7		6.6			4.9			5.9		6.9		
		6.0			4.2			5.0		6.5		
8		5.9			4.1			4.9		6.4		
					6.2			7.0				
9		7.0	7.9		6.1			6.9				
					5.8			6.1				
10		6.9			5.7			6.0		7.1		
		6.3			4.8			5.9		6.8		
11		6.2			4.7			5.8		6.7		
					6.0			6.9				
12		7.4			5.9			6.8		7.8		

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1917phae.proj.1161R

Tuesday, May 8, 1917

Scale V

Plot sheets 14 & 15.

MF 491 – Nutis + Magnolia
(Nutis) (Magnolia)

	Sc	B	Sc	C		Sc	B	Sc	C		Cu	Magn
1	6.7	7.6			7.6 7.4 0 0	6.9	6.8	6.8 5 10	6.9	6.90 0 0	2.89	9.99
2	6.6				6.6 6.0 0 0	5.8	5.7	5.7 5 10	5.8	5.8 0 0	4.22	10.02
3		7.0	7.3		7.6 7.3 0 3 0 3	6.7	6.6	6.6 5 10	6.7	6.7 0 0	3.17	9.87
4	6.8	7.9			8.2 8.0 5 1 2		7.8	7.6 7.7 0 1 1	7.6	7.7 0 1 1	2.21	9.91
5	6.7				6.7 6.7 0 0	5.9		5.9 5.9 0 0 0	6.0	5.9 5 0 1	3.92	10.87
6		8.1			8.1 8.0 0 0		7.7	7.9 7.8 0 1 1	7.9	7.8 0 1 1	2.09	9.89
7	6.8	7.1			6.9 7.0 0 1 1	6.7		6.6 6.6 5 10	6.7	6.7 0 0 0	3.10	9.80
8		6.7			i 6.7 0 a.	5.9		5.9 5.9 0 0 0	6.0	5.9 5 0 1	3.77	10.72
9		8.2			8.1 8.1 5 10		7.9	7.9 7.9 0 0 0	7.9	7.9 0 0 0	2.12	10.02
10	6.8	7.7			7.7 7.7 0 0 0	6.9		6.9 6.9 0 0 0	7.0	6.9 5 0 1	1.80	8.75
11	6.7				6.6 6.6 5 10	6.1		6.2 6.1 5 0 1	6.3	6.2 0 1 1	3.47	9.67
12		7.8			7.6 7.7 0 1 1		7.6	7.4 7.5 0 1 1	7.4	7.5 0 1 1	2.21	9.71

	Means (Nutis)	Cu	Magn
1	7.60 0 0	2.84	10.44
2	6.7 0 0 0	~~4.08~~ 3.99	~~10.78~~ 10.69
3	7.30 3 0 3	3.08	10.38
4	8.0 5 1 2	2.20	10.25
5	6.8 0 0 0	3.78	10.58
6	8.1 0 0 0	2.10	10.20
7	7.0 5 1 0	3.06	10.11
8	6.8 0 a.	3.50	10.30
9	8.1 5 1 0	2.09	10.24
10	7.7 0 0 0	1.92	9.62
11	6.7 5 10	3.30	10.05
12	7.7 0 1 1	2.21	9.91

2:50

Mean 9.84 05 18 03 07 03 05 04 12 18 09 17 13 (Magnolia)

~~Mean 10.24 20 54 14 01 34 04 13 06 00 62 19 33 (Nutis)~~

Com. mean 10.31 13 38 07 06 27 11 20 01 07 31 26 40

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Wednesday, May 9, 1917

Scale V

MF489 - Messalia Comp S. Stars
(b) (c)

	ScBScC	ScBScC
1	7.5	8.9
	4.6	6.0
2	4.3	5.9
	5.3 5.1	6.9
3	5.2 3.6	6.8
	7.0	
4	6.9	8.8
	5.0 5.0	6.9
5	4.9 4.9	6.8
	6.7	
6	6.6	7.7
	5.0	6.8
7	4.9	6.7
	5.0	6.7
8	4.9	6.6
9	F	F-
10	8.7	F
	7.1	
11	7.0	def
	5.9	
12	5.8	7.2
13	i	8.9
14	F	F
		6.8
15	i	6.7
16	i	+/
17	8.0	+/

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Wednesday. May 9, 1917

Scale V

11:45 MF 392 — Polar sequence & Palma —
(Polar seq) (Palma)

	Sc B Sc C		Sc B Sc C
	6.0		
11	5.9	1	
	6.7		
12	6.6	2	8.1
	7.0		
13	6.9	3	7.8
14	7.7	4	7.9
15	7.9	5	8.3
16	7.9	6	9.0
17	8.4	7	7.9
18	8.9		

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Wednesday, May 9, 1917

Scale V

MF392 - Palmer Conj. Stars -
(a) (b) (c)

	ScBScC (a)	ScBScC (b)	ScBScC (c)
1	9.0	9.4	F
2	7.9	8.2	9.0
3	7.3	7.7	8.6
4	7.5	7.8	8.6
10 min. ord 5	7.7	8.0	9.0
6	6.9	7.9	9.2
7	7.8	7.9	8.8

	Mean of 3, 4	Cu	Magn	Correct. Corr.	Corr. magn
a	7.40 ± 1	3.19	10.59	+.17	10.76
b	7.75 ± 1	3.18	10.93		11.10
c	8.60 ± 0	3.22	11.82		11.99

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1917phae.proj.1161R

Wednesday, May 9. 1917

Scale V

Plate sheet 16

MF392 — Palma & Polar seq —
(Palma) (Polar seq)

		Sc B Sc C					Sc B Sc C				Diff
1	1	def	Tf.		Cu	11	6.0 6.1	6.0	6.05 1 0		3.57
2	2	8.2	8.1	8.15	10 2.91	12	6.6 6.7	6.7	6.70 0 0		3.16
3	3	7.8	7.8	7.80	0 0 3.46	13	6.9 7.0	7.0	7.00 0 0		3.30
4	4	7.9	7.9	7.90	0 0 3.37	14	7.6	7.7	7.65 0 1		3.00
5	5	8.3	8.3	8.30	0 0 3.11	15	7.8	7.9	7.85 0 1		3.23
6	6	9.2	9.0	9.10	1 2 1.71	16	8.0	7.9	7.95 1 0		3.45
7	7	7.9	7.9	7.90	0 0 ~~1.62~~ 2.12	17	8.4	8.4	8.40 0 0		3.23
	8					18	8.9	8.9	8.90 0 0		3.16

Reject - from smoothed curve.

	Magn
1	11.06
2	11.26
3	11.27
4	11.41
5	10.81
6	11.02

12:27

		Cu	Magn
1	.	.	.
2	8.15	2.83	10.98
3	7.80	3.33	11.13
4	7.90	3.24	11.14
5	8.30	3.01	11.31
6	9.10	1.83	10.93
7	7.90	3.03	10.93

Mean 11.07 .. 09 06 07 24 14 14

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1917phae.proj.1161R

Wednesday, May 9, 1917

Scale V / 2:25

MF 393 - Polar seq. + Palma
(Polar seq) (Palma)

Rejected - Sym. Sequences.

	Sc	BSc	C	Mean	Diff		Sc	BSc		C	Mean
11	5.9 6.0	6.0		6.0000	3.55	1	suf	suf		.	. .
12	6.6 6.7	6.3		6.5022	3.36	2	fond	fond		.	. .
13	6.8 6.9	7.0		6.9601	3.35	3				.	. .
14	6.9 7.0	7.40		7.2022	3.45	4	8.9	8.8		8.8510	2.45 11.30
15	7.6	7.6		7.6000	3.48	5	8.1	8.4		8.2512	. .
16	7.8	7.9		7.8501	3.55	6	7.7	7.7		7.7000	3.61 11.31
17	8.1	8.1		8.1000	3.53	7	8.9	8.9		8.9000	2.61 11.51
18	8.6	8.7		8.6501	3.41	8	7.9	8.6	8.3	8.2743	03.13 11.40
						9	7.7	7.7		7.7000	3.67 11.37
						10	7.9	7.8		7.8510	3.72 11.57
						11	8.6	8.6		8.6000	. .
	Sc		Cu	Magn		12	suf.	8.9		8.90. a	2.22 11.12
1	.		.	.		13	7.9	7.7		7.9000	3.33 11.23
2	.		.	.		14	suf.	F		.	. .
3	.		.	.							
4	8.85		2.36	11.21							
5	8.25		3.17	11.42							
6	7.70		3.49	11.19							
7	8.90		2.49	11.39							
8	8.27		3.15	11.42							
9	7.70		3.68	11.38		Mean	11.34 .. .. .. 13 08 15 05 08 04 24 27 31 22				
10	7.85		3.73	11.58							
11	8.60		3.01	11.61							
12	8.90		2.13	11.03							
13	7.90		3.22	11.12							
14	.		.	.							

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Wednesday, May 9, 1917

Scale V

Plot sheet 16.

MF393 – Palma Conf. Stars

	(a) ScBScC	(b) ScBScC	(c) ScBScC
1	8.9	9.0	9.4
2	8.4	8.9	8.1
3	7.0 6.9	7.3	
4	8.4	8.7	9.6
5	7.9	7.9	8.7
6	7.0 6.9	7.6	8.4
7	8.1	8.6	9.4
8	7.7	Sup	8.8
9	7.0 6.9		8.4
10	7.0 6.9	fused	8.3
11	7.9	7.8	8.9
12	8.6	8.9	9.7
13	7.5	7.8	8.7
14	F	F	F

	Means of ref. 6, 9, 10	Cu	Magn	Corr. Corr.	Corr. magn	MF392
a	7.00 0 00	3.43	10.43	+.21	10.64	10.76
b	7.60 0 . .	3.49	11.09		11.30	11.10
c	8.37 0 0 1	3.50	11.87		12.08	11.99

a 10.70 06 06

b 11.20 10 10

c 12.03 05 04

For final magnitudes see R5:99

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Wednesday, May 9, 1917

Scale V

MF 393 - Palma & Polar Seq -
~~Polar~~ (Palma) (Polar Seq)

	Sc B Sc C		Sc B Sc C
1	sup	11	6.0 5.9
2	—	12	6.1 3 6.2
3	fozed.	13	7.0 6.9
4	8.8	14	7.40 1/4 7.5 7.3
5	8.4	15	7.6
6	7.7	16	7.9
7	8.9	17	8.1
8	8.6 8.3	18	8.7
9	7.7		
10	7.8		
11	8.6		
12	8.9		
13	7.9		
14	F		

3:00

MF 394 - images too faint to compare with any scale.

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1917phae.proj.1161R

Thursday, May 10, 1917

Scale V

Plot sheet 17

10:35 MF370 - (Tulia) | Tulia + (a) | Comp 5 Tau - (b) | (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	8.8	7.8	8.9	F
2	7.8	7.3	7.8	8.9
3	6.8 6.7	6.0 5.9	6.9 6.8	7.9
4	7.0 6.9	6.6 6.5	7.0 6.9	8.4
5	7.8	7.1	7.9	8.9
6	8.9	8.3	8.7	9.6
7	i	6.4 6.3	7.0 6.9	8.0
8	8.9	7.9	8.9	9.8:
9	7.9	7.5	7.9	8.7
10	7.2	6.0 5.9	7.0 6.9	8.0
11	8.0	8.1	8.9	9.9
12	7.9	7.2	7.9	9.0
13	8.4	7.6	8.1	i

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1917phae.proj.1161R

Thursday, May 10, 1917

Scale V

MF370 - Thalia

	ScBScC				Cu	Magn
1		8.9	8.8	8.85 10	1.33	10.18
2		7.9	7.8	7.85 10	2.39	10.24
3	6.8 6.7		6.8	6.80 00	3.38	10.18
4	7.0 6.9		7.0	7.00 00	3.11	10.11
5		7.8	7.8	7.80 00	2.36	10.16
6		8.9	8.9	8.90 00	1.51	10.41
7	i		i	.	.	.
8		8.9	8.9	8.90 00	1.41	10.31
9		7.9	7.9	7.90 00	2.30	10.20
10		7.6	7.2	7.40 22	3.22	10.62
11		7.9	8.0	7.95 01	.	.
12		i	7.9	7.90 . a	2.31	10.21
13		8.6	8.4	8.50 11	.	.

Mean 10.26 08 02 08 15 10 15 05 06 36 05 ..

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1917phae_proj.1161R

Thursday, May 10, 1917

Scale V

Prof Shedd 17

MF 371 – Thalia & Comp Stars.

	(Thalia) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
1	6.0 i	6.0 5.9	7.6 6.7	i
2	5.9	5.7 5.6	6.6	7.9
3	7.1	6.8 6.7	7.0 6.9	8.8
4	t/	t/	8.8	9.7
5	6.9 6.8	5.8 5.7	6.9 6.8	7.9
6	8.7	t/	def	F
7	6.7 7.5	6.9 6.8	6.7 7.5	8.8
8	6.6	5.8 5.7	6.6	i
9	8.9	8.8	8.9	9.7
10	7.0 6.9	def	7.7	9.0
11	6.9 6.8	6.1 6.0	7.9 6.9	def

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1917phae.proj.1161R

Thursday. May 10, 1917

Scale ✓

NF 391 - Thalia

	Sc	B	Sc	C			Cu	Magn.
1	1 ✓				.	.	.	
2	6.3 6.4	6.4	6.3	6.0	6.30	2 3,	3.64	9.94
3	7.1		7.1		7.10	0 0	2.97	10.07
4	Surf.		.		.		.	.
5	7.0 6.9		6.9		6.95	10	3.38	10.33
6	8.9		8.7		8.80	1 1,	.	.
7	6.7 7.6		7.5		7.55	10	2.68	10.23
8	6.6		6.7		6.70	0 0	3.52	10.22
9	6.7 1		8.9		8.90	. 0	1.12	10.02
10	6.6 7.0		7.0		6.85	1 2	.	.
11	6.9		6.9		6.95	10	3.21	10.16

Mean 10.14 " 20 07 " 19 " 09 08 12 " 02

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1917phae..proj..1161R

Thursday, May 10, 1917

Scale V

Plot sheet 18

	MF 37 (Thalia)	Thalia + Comp. Stars (a)	(b)	(c)
	ScBScC	ScBScC	ScBScC	ScBScC
1	7.7	6.8 6.2 7.0	7.6	8.0
2	7.9	6.9	7.9	8.8
3	"	"	"	9.6
4	"	6.7 6.6	7.0 6.9	8.0
5	8.6	8.0	8.4	9.0
6	7.9	7.1 7.0	7.8	8.9
7	7.3	6.2 6.1	7.0 6.9	"
8	8.9	8.1	8.7	9.2
9	8.0	6.8 7.7	7.9	8.9
10	7.0	6.7	"	8.6

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1917phae.proj.1161R

Thursday, May 10, 1917

Scale V

Thalia — MF 37 R

	ScB	ScC		Cu	Magn
1	7.6	7.7	7.6501	2.96	10.61
2	7.9	7.9	7.9000	2.38	10.28
3	8.9	i	8.90a.	.	.
4	i	i	.	.	.
5	8.6	8.6	8.6000	1.98	10.58
6	7.9	7.9	7.9000	2.39	10.29
7	7.0	7.3	7.15 1,2	.	.
8	8.8	8.9	8.8501	1.70	10.55
9	8.0	8.0	8.0000	2.22	10.22
10	7.6	7.27.0	7.2731,3,	2.78	10.05

Mean 10.37 24 09" 21 08" 18 15 37

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1917phae..proj..1161R

Thursday, May 10, 1917

Scale V

Plate sheet 17

Thalia – HF 372 – 4 Comp. Stars.
(Thalia) (a) (b) (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	7.9	7.7	7.9	8.8
2	7.9	7.4	7.9	8.9
3	8.7	8.0	8.4	9.1
4	7.0 6.9	6.8 6.7	7.2	8.0
5	8.4	8.0	8.3	9.4
6	7.9	7.1	7.8	8.7
7	7.1 7.0	6.7 6.6	7.1	7.9
8	8.7	8.0	8.9	9.7
9	7.8	7.6	7.9	8.8
10	7.6	6.9 6.8	7.6	8.6

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1917phae.proj.1161R

Thursday, May 10, 1917

MF372 - Thalia

	ScBScC				Cu	Magn
1		7.9	7.9	7.9000	2.18	10.68
2		7.8	7.9	7.8501	2.26	10.11
3	7.0	8.6	8.7	8.6501	1.93	10.58
4	6.9		7.0	7.0000	2.90	9.90
5		8.2	8.4	8.3011	1.79	10.09
6		7.8	7.9	7.8501	2.43	10.28
7	6.9 6.8		7.1	7.0001	3.04	10.04
8		8.7	8.7	8.7000	1.42	10.12
9		7.7	7.8	7.7501	2.18	9.93
10		7.4	7.6	7.5011	2.61	10.11

Mean 10.12 04 01 46 22 03 16 08 00 19 01

12:40

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1917phae..proj..1161R

Thursday, May 10, 1917

Scale ✓

Plot sheet 18

MF 373 — Thalia & Comp Stars —
(Thalia) (a) (b) (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	7.0 9.1	6.7 9.1	9.7	F
2	6.9	6.6	7.2	8.3
3	7.7	7.6	7.9	8.9
4	8.8	8.4	8.9	9.7
5	7.2	6.6	7.4	8.1
6	8.9	8.1	8.8	9.7
7	7.9	7.9	7.9	8.9
8	7.0 6.9	6.6	7.0 6.9	7.9
9	8.6	8.2	8.9	F
10	7.9	7.6	8.0	8.9
11	7.9	7.0	7.9	8.8

	Sc	Cu	Magn
1	9.1	0.50	[9.60]×
2	7.0	2.95	9.95
3	7.7	2.14	9.84
4	8.8	1.28	10.08
5	7.2	2.87	10.07
6	8.9	1.43	10.33
7	7.9	2.33	10.23
8	7.0	3.12	10.12
9	8.6	1.33	9.93
10	7.9	2.13	10.03
11	7.9	2.35	10.25

× Rejected - incomplete curve.

Mean 10.04 ~~44 09 20~~ 04 03 29 19 08 11 01 21

Corr. mean 10.08 13 24 00 01 25 15 04 15 05 17

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1917phae.proj.1161R

Friday, May 11, 1917

Scale V
4:10

Plates held 18

MF394- Thalia & Comp. Stars
(Thalia) (a) (b) (c)

	ScBScC	ScBScC	ScBScC	ScBScC
1	6.9 7.9	6.4 7.6	6.9 8.0	9.0
2	6.8	6.3	6.8	7.9
3	7.7	7.1 7.0	7.7	8.6
4	8.4	7.9	8.6	9.1
5	7.0 6.9	6.8 6.7	7.0 6.9	7.9
6	8.0	7.9	8.6	9.0
7	7.7	7.0 6.9	7.8	8.7
8	7.0 6.9	6.2 6.1	7.0 6.9	7.9
9	8.7	8.0	8.8	9.4
10	7.9	7.1	7.8	8.7
11	7.0 6.9	7.0 6.9	7.1 7.0	7.9

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1917phae.proj.1161R

Friday, May 31, 1917

Scale V

MF374 - Thalia

	Sc	B	Sc	C		Cu	Magn
1		8.0 7.0	7.9	7.95	10	2.12	10.07
2		6.9	6.9	6.95	10	3.31	10.26
3		7.6	7.7	7.65	01	2.52	10.17
4		8.4	8.4	8.40	00	1.71	10.11
5	7.0 6.9		7.0	7.00	00	3.12	10.12 9.97
6		8.1	8.0	8.05	10	1.62	[9.67]
7	7.0	7.7	7.7	7.70	00	2.46	10.16
8	6.9		7.0	7.00	00	3.26	10.26
9		8.7	8.7	8.70	00	1.53	10.23
10	7.0	7.9	7.9	7.90	00	2.46	10.36
11	6.9		7.0	7.00	00	2.77	9.77

Mean ~~10.12 05 14 05 01 00 45 04 14 11 24 36~~

~~10.11 04~~ 15 06 00 01 44 05 16 12 25 34

July 31, 1913

	Cu	Magn
6 8.3	1.67	9.97

Magn Corr mean 10.13 06 13 04 02 01 16 03 13 10 23 36

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1917phae.proj.1161R

Saturday, May 12, 1917

Scale V

MF 549 – Inner & Comp. Stars

	(Inner)		(a^2)		(b^2)		(c^2)		(d^2)
	Sc	BSc	Sc	BSc	Sc	BSc	Sc	BSc	Sc BSc
1		8.6		7.8		8.6		8.8	9.6
2	6.8	7.7	6.9		6.8	7.6	7.0	7.8	8.8
3	6.7		5.9		6.7		6.9		8.0
4	5.8		5.8		5.9		6.1		7.1
	5.7		4.7		5.8		6.0		
5		7.9	4.6	7.0		7.9		7.8	8.9
	6.8		6.0		6.9		7.0		
6	6.7		5.9		6.8		6.9		7.9
7	5.9		4.7		6.0		6.7		7.8
	5.6		4.6		5.9		6.6		
8	6.0		4.9		5.9		6.9		7.8
	5.9		4.8		5.8		6.8		
9	7.0		6.0		7.0			7.6	8.1
	6.9		5.9		6.9				
10		7.9		7.7		8.0		8.1	8.9
	6.9		5.8		6.9				
11	6.8		5.7		6.8			7.7	8.0

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1917phae.proj.1161R

Saturday, May 12, 1917

Scale V

MF549 - Ireme

(Ireme)

	ScB	ScC		Sc	Cu	Mag
1	9.7	~~5~~ 8.6	8.6	8.6000	1.28	9.88 01
2	8.8	7.7	7.7	7.7000	2.24	9.98 09
		6.8				
3		6.7	6.8	6.8000	3.08	9.88 01
		5.9				
4		5.8	5.8	5.8510	3.98	9.83 06
5		7.9	7.9	7.9000	2.15	10.05 16
	6.9					
6	6.8		6.8	6.8510	3.02	9.81 02
	5.9					
7	5.8		5.9	5.9000	3.82	9.72 17
	6.0					
8	5.9		6.0	6.0000	3.82	9.82 07
	7.0					
9	6.9		7.0	7.0000	2.79	9.79 10
10		8.0	7.9	7.9510	2.24	10.19 30
	7.0					
11	6.9		6.9	6.9510	2.82	9.71 12

9.78

~~10.88~~ 9 Mean Mag.

9.89

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1917phae.proj.1161R

Monday, May 13, 1917

Scale V

9:35 MF346 – Sulei ka & Comp. Stars

(Sulei ka) (a) (b) (c)

	ScBScC	ScBScC	Diff	ScBScC	Diff	ScBScC	Diff
1	F	6.8 9.3	0.79	9.9	0.90	F	.
2	8.4	6.7	3.29	7.8	3.00	9.6	2.34
3	9.0	7.9	2.19	8.8	2.00	9.7	2.24
4	F	9.6	0.49	F	.	F	.
5	8.0	6.9 6.8	3.19	7.7	3.10	9.1	2.84
6	9.6	8.5	1.59	9.3	1.50	F	.
7	8.6	7.5	2.59	7.9	2.90	9.6	2.34
8	7.7	6.8 6.7	3.29	7.0 6.9	3.80	8.9	3.04
9	7 8.9	6.0 5.9	4.09	7.7	3.10	8.6	3.34
10	8 7.7	7.0 6.9	3.09	7.9	2.90	def	.
11	9.1	8.0	2.09	8.9	1.90	def	.
12	~	6.9 6.8	3.19	7.8	3.00	8.8	3.14
13	9.0	8.1	1.99	8.9	1.90	def	.

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1917phae.proj.1161R

Monday. May 13. 1917

Scale V.

NF346 - Sulcitba

	SoBScC			Cu.	Mag.
1	F	.	.	.	.
2	8.5	8.4	8.45 10	2.76	11.21
3	9.0	9.0	9.0000	2.11	11.11
4	F	.	.	.	.
5	7.9	8.0	7.9501	3.04	10.99
6	F	9.6	9.60 . a	e	.
7	8.8	8.6	8.70 1!	2.51	11.21
8	7.9	7.7	7.80 1!	3.37	11.17
9	7.8	7.9	7.8501	3.30	11.15
10	8.9	8.7	8.80 1!	e	.
11	9.4	9.1	9.25 2!	e	.
12	i	.	.	.	.
13	8.9	9.0	8.95 01.	1.90	10.85 (.64)

Mean Mag. 11.09 "12 02 "12 " 12 08 06 " " " 24

For Magn. of Comp. Stars
See D W B 6 : 140

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1917phae.proj.1161R

Monday. May 14, 1917

Scale V

MF347 - Sukeika & Comp. Stars

(Sukeika) (a) (b) (c)

	Sc	B	Sc	C	Diff.	Sc	B	Sc	C	Diff.	Sc	B	Sc	C	Diff
1		8.9				8.2			1.89		def				
2		9.2				8.7			1.39		F				
3		8.0	7.0	6.9					3.09		8.8		3.14	7.7	3.10
4		8.7				7.8			2.29		9.4		2.54	8.2	2.60
5		9.0	6.9			8.6			1.49		10.0		1.94	8.9	1.90
6		7.9	6.8						3.19		8.7		3.24	7.6	3.20
7		9.1				8.1			1.99		9.6		2.34	8.8	2.00
8		8.8	6.9			7.8			2.29		9.4		2.54	7.9	2.90
9		8.9	6.8						3.19					7.6	3.20
10		8.0	7.0	6.9					3.09		8.8		3.14	7.7	3.10
11		9.7				8.7			1.39		8.9		3.04	8.9	1.90
											F				

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

MF347 - Sulitka

	ScBScC			Cu.	Mag.
1	8.9	8.9	8.90 00	1.90	10.80
2	9.6	9.2	9.40 22	e.	.
3	7.9	8.0	7.95 01	3.12	11.07
4	8.8	8.7	8.75 10	2.50	11.25
5	9.0	9.0	9.00 00	1.74	10.74
6	7.9	7.9	7.90 00	3.21	11.11
7	9.0	9.1	9.05 01	2.12	11.17
8	8.6	8.8	8.70 11	2.56	11.26
9	7.9	7.9	7.90 00	3.18	11.08
10	8.0	8.0	8.00 00	3.08	11.08
11	9.6	9.7	9.65 01	e	.

.56

Mean mag. 11.06 26 " 01 19 32 05 11 20 02 02 "

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

MF-348 - Sukiika & Comp. Stars

	(Sukiika) ScBScC	(a) ScBScC	Diff.	(b) ScBScC	Diff.	(c) ScBScC	Diff
1	def	8.0	2.09	8.9	1.90	9.9	2.04
2	9.9	8.6	1.49	9.6	1.20	F	.
3	8.1	7.0 6.9	3.09	7.9	2.90	9.0	2.94
4	8.8	7.9	2.19	8.6	2.20	9.6	2.34
5	9.6	6.8 8.4	1.69	9.3	1.50	10.0 limit	1.94
6	7.8	6.7	3.29	7.6	3.20	8.9 Error of	3.04
7	9.0	8.4	1.69	8.9	1.90	10.0 -9.0	2.94
8	8.6	7.6	2.49	8.0	2.80	9.6	2.34
9	7.7	6.8 6.7	3.29	7.6	3.20	8.8	3.14
10	7.8	6.9 6.8	3.19	7.7	3.10	8.9	3.04
11	9.8	9.1	0.99	9.5?	1.30?	F	-

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

MF348 - Suleika

	Sc	B	Sc	C			Cu.	Mag.
1	9.1				.	.	.	.
2	9.9		9.9	9.9000			e	.
3	8.0		8.1	8.0501			2.96	11.01
4	8.8		8.8	8.8000			2.23	11.03
5	9.7		9.6	9.6510			1.79	11.44
6	7.8		7.8	7.8000			3.17	10.97
7	9.0		9.0	9.0000			1.83	10.83
8	8.6		8.6	8.6000			2.53	11.13
9	7.8		7.7	7.7510			3.19	10.94
10	7.9		7.8	7.8510			3.09	10.94
11	9.8		9.8	9.8000			e	.
								.29

Mean Mag. 11.04 " " 03 01 40 07 21 09 10 10 "

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1917phae.proj.1161R

Thursday, May 14, 1917

Scale V

ME-349 — Sulejka + Comp. 5 stars

(Sulejka)

	Sc	B	Sc	C	(a) Sc	B	Sc	C	Diff.	(b) Sc	B	Sc	C	Diff.	(c) Sc	B	Sc	C	Diff.
1			7.9		7.0 6.9				3.09			7.7		3.10			9.1		2.84
2			8.8			7.7			2.39			8.0		2.80			9.6		2.34
3			9.2		6.9	8.6			1.49			9.0		1.80			F		.
4			7.9			6.8			3.19			7.7		3.10			8.9?		3.04?
5			8.6			7.8			2.29			8.1		2.70			9.7		2.24
6			9.2		6.9	8.6			1.49			9.0		1.80			F		.
7			7.9			6.8			3.19			7.6		3.20			8.9		3.04
8			9.4			8.7			1.39			8.9		1.90			F		.
9			8.6			7.7			2.39			8.1		2.70			9.3		2.64
10			7.9		7.0	7.1			2.99			7.8		3.00			8.8		3.14
11			7.9			6.9			3.09			7.7		3.10			8.9		3.04
12			9.7			8.9			1.19			9.0		1.80			F		.

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

MF349 -
Sc B5 c C

				Cu	Mag.
1	7.9	7.9	7.9000	3.04	10.94
2	8.6	8.8	8.7011	2.48	11.18
3	9.3	9.2	9.2510	e	.
4	7.9	7.9	7.9000	3.10	11.00
5	8.7	8.6	8.6510	2.42	11.07
6	9.0	9.2	9.1011	1.85	10.95
7	7.9	7.9	7.9000	3.13	11.03
8	9.6	9.4	9.5011	e	.
9	8.7	8.6	8.6510	2.60	11.25
10	7.9	7.9	7.9000	3.03	10.93
11	7.9	7.9	7.9000	3.09	10.99
12	9.7	9.7	9.7000	e	.

34

Mean mag. 11.04 10 14" 04 03 09 01 "21 11 05"

1/2 i 20

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1917phae.proj.1161R

Monday. May 14, 1917

MF547- . Inue - Cayleander's method.

Eq.
4 9.12 a 5 v 9.79 9.62 9.59 9.60 02 01
9.59 v 2 b 2
2 9.12 a 3 v 9.42 9.59 9.50 08 09
9.59 v 2 b 9.79
3 9.12 a 5 v 9.62 9.59 9.60 02 01
9.59 v 2 b 9.79
1 # F -

5 9.79 b 3 v 10.09 9.97 10.03 06 06
9.97 v 2 c 10.17
6 9.79 b 2 v 9.99 9.97 9.98 01 01
9.97 v 2 c 10.17
7 9.79 b 2 v 9.99 9.97 9.98 01 01
9.97 v 2 c 10.17
8 9.12 a 3 v 9.42 9.49 9.46 04 03
9.49 v 3 b 9.79
9 9.12 a 4 v 9.52 9.59 9.56 04 03
9.59 v 2 b 9.79
10 9.12 a 6 v 9.72 9.69 9.70 02 01
9.69 v 1 b 9.79
11 9.79 b 2 v 9.99 9.97 9.98 01 01
9.97 v 2 c 10.17
12 defect near -

13 9.12 a 4 v 9.52 9.69 9.60 08 09
9.69 v 1 b 9.79

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

4:10 MF320- (Kallivje) / Kallivje & Comp. Stars

		(a) ScBScC		(b) ScBScC		(c) ScBScC	
			Diff		Diff		Diff
	1	8.9	8.1	1.84	8.7	1.92	9.5	1.58
	2	F	F	.	F	.	F	.
All	3	9.3	8.7	1.24	9.0	1.62	9.7	1.38
images	4	8.8	7.6	2.34	7.9	2.72	8.4	2.68
very	5	8.6	8.0	1.94	8.4	2.22	8.8	2.28
poor	6	9.6	9.0	0.94	9.2	1.42	9.6	1.48
&	7	F	F	.	F	.	F	
hazy	8	F	F	.	F	.	F	

For Meas- for Mag. of Comp. Stars
see D.20.B 6:129-130

Also plates for Kallivje
Re-measured in
D20B 6:146-151

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1917phae.proj.1161R

Monday, May 14, 1917

Scale V

MF 320 – Kalin — nov. 18, 1916

G.M.T. Mid time.	Length of Exp. m		ScBScC			Cu.	Mag.	
11 21.	8	1	8.9	8.9	8.90 00.	1.75	10.65	
11 16	2	2	F	F	.	.		
11 12½	5	3	9.5	9.3	9.40 1½	1.41	10.81	
11 05	10	4	8.8	8.8	8.80 00	2.97 e	11.77 e	Reject.
10 55	10	5	8.8	8.6	8.70 1½	2.27	10.97	
10 47½	5	6	9.2	9.6	9.40 2½	1.43	10.83	
10 44	2	7	F	F	.		3.26	
10 42½	1	8	F	F	.		10.82	17 – 01 – 15 01 .. ..

4.25

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale V

11:00 MF321 - (Kallitype) Kallitype & Conf. 5 Stars

	ScBScC	ScBScC (a)	Diff	ScBScC (b)	Diff	ScBScC (c)	Diff
1	8.6	7.8	2.14	8.2	2.42	8.9	2.18
2	9.8(?)	9.8	0.14	9.8?	0.82?	F	.
3	8.9	8.6	1.34	8.7	1.92	9.6	1.48
4	8.6	7.7	2.24	7.9	2.72	8.7	2.38
5	8.7	7.7	2.24	7.9	2.72	8.7	2.38
6	8.9	8.1	1.84	8.9	1.72	9.0	2.08
7	9.8	9.1	0.84	9.7	0.92	F	.
8	8.3	7.7	2.24	7.9	2.72	8.6	2.48
9	9.4	8.7	1.24	8.9	1.72	9.1	1.98
10	F	9.4	0.50	9.6	1.02	F	.

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1917phae.proj.1161R

Wednesday. May 16, 1917

Scale V

nov. 18, 1916

MF 321 – Kalliope

G.M.T. mid time	Length of Exp.		ScBScC		Mean	Cu.	Mag.
12 21½	9m	1	8.1	8.6	8.35 2 3	2.23	10.58
12 16	2	2	9.9?	9.8?	9.85 1 0	.	.
12 12½	5	3	8.9	8.9	8.90 0 0	1.60	10.50
12 05	10	4	8.0	8.6	8.30 3 3	2.41	10.71
11 55	10	5	8.7	8.7	8.70 0 0	2.38	11.08
11 47½	5	6	8.9	8.9	8.90 0 0	1.87	10.77
11 44	2	7	10.0?	9.8	9.90 1 1	0.45 e	10.35 e
11 38	10	8	8.1	8.3	8.20 1 1	2.48	10.66
11 30½	5	9	9.0	9.4	9.20 2 2	2.21	11.41
11 27	2	10	9.9 F	F	9.90 a.	e	e

6.08

10.76

18 .. 26 05 32 01 41 08 65"

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1917phae.proj.11618

Wednesday, May 16, 1917

Scale V

UF322 – Kallinge + Comp Stars

	(Kallinge)(a)			(b)		(c)	
	ScBScC F	Diff.	ScBScC F	ScBScC F	Diff.	ScBScC Defoc.	Diff.
1			8.9	8.6	2.02		
2	8.0	1.94	9.8	9.1	1.52		
3	9.0	0.94					
4 (35 minutes)	7.8	2.14	8.1	7.9	2.72		
5	8.9	1.04	9.5	9.7?	0.92?		
6	7.9	2.04	8.8	8.6	2.02		
7	7.8	2.14	7.8	7.9	2.72	8.6	2.48
8	7.8	2.14	7.9	7.9	2.72	8.0	3.08
9	7.9	2.04	8.8	8.6	2.02	8.9	2.18
10	8.9	1.04	9.1	9.0	1.62	9.7	1.38
11	7.7	2.24	7.9	7.9	2.72	8.3	2.78
12	8.6	1.34	8.9	8.9	1.72	9.1	1.98

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale V

MF 322 — Nov. 18, 1916 Kalliope

G.M.T. Mid time		Extra Length.	Sc 135. C			Mean	Cu.	Mag.
h	m	s		F	F	F		
13	30½	5	2	8.8	8.9	8.8501	e	
13	27	2	3	9.7	9.8	9.7501	e	
13	21½	9	4	8.2	8.1	8.1510	e	
13	16	2	5	9.6	9.5	9.5510	0.95	10.50
13	12½	5	6	8.8	8.8	8.8000	2.01	10.81
13	05	10	7	7.9	7.8	7.8510	2.45	10.30
12	55	10	8	7.8	7.9	7.8501	2.50	10.35
12	47½	5	9	8.8	8.8	8.8000	2.09	10.89
12	44	2	10	9.2	9.1	9.1510	1.34	10.49
12	38	10	11	7.9	7.9	7.9000	2.51	10.41
12	31	4	12	8.9	8.9	8.9000	1.72	10.62
								4.37

12h.50

Mean Mag. 10.55 " " " " 05 26 25 20 34 06 14 07

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale V
2:20

MF 323 – Kalliope + Comp. 5 Stars

	MF 323 – (Kalliope)	Kalliope (a)		+ Comp. 5 Stars (b)		(c)	
	ScBScC	ScBScC	Diff.	ScBScC	Diff.	ScBScC	Diff.
1	8.6	7.9	2.04	8.6	2.02	8.7	2.38
2	8.9	8.0	1.94	8.8	1.82	8.9	2.18
3	9.6	8.9	1.04	9.3	1.32	9.9?	1.18?
4	7.9	7.6	2.34	7.8	2.82	8.2	2.88
5	9.4	9.0	0.94	9.1	1.52	9.8?	1.28?
6	8.7	7.8	2.14	8.2	2.42	8.9	2.18
7	7.8	7.7	2.24	7.7	2.92	8.0	3.08
8	7.9	7.5	2.44	7.8	2.82	7.9	3.18
9	8.8	7.9	2.04	8.2	2.42	8.8	2.28
10	9.4	8.7	1.24	9.2	1.42	9.6	1.48
11	7.9	7.7	2.24	7.9	2.72	8.6	2.48

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale ✓

Nov. 18, 1916

MF 323 - Kalliope

Z. M. T. Sidereal Time	Exp. Length	Set.	Sc B	Sc C		Cu.	Mag.
14 37	8	1	8.4	8.6	8.50 11	2.14	10.64
14 30½	5	2	8.9	8.9	8.900 0	1.99	10.89
14 27	2	3	9.7	9.6	9.65 10	1.19	10.84
14 21½	9	4	8.0	7.9	7.95 10	2.75	10.70
14 16	2	5	9.6	9.4	9.50 11	1.25	10.75
14 13½	5	6	8.8	8.7	8.75 10	2.19	10.94
14 05	10	7	8.0	7.8	7.90 11	2.90	10.80
13 55	10	8	7.9	7.9	7.900 0	3.10	11.00
13 47½	5	9	8.8	8.8	8.800 0	2.27	11.07
13 44	2	10	9.4	9.4	9.400 0	1.45	10.85
13 38½	9	11	7.9	7.9	7.900 0	2.48	10.38
							8.86

Mean mag. 10.80 16 09 04 10 05 14 00 2 0 27 05 42

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale V

MF 324 — Kalliope + Comp 5 stars

(Kalliope) (a) (b) (c)

	ScBSc C	ScBSc C	Diff.	ScBSc C	Diff.	ScBSc C	Diff.
1	F	9.9	0.04	10.0	0.62	F	.
2	9.0 9.7	8.7	1.24	8.9	1.72	9.6	1.48
3	8.6	9.1	0.84	9.7	0.92	9.9	1.18
4	8.9	7.8	2.14	7.9	2.72	8.8	2.28
5	def	7.9	2.04	8.6	2.02	9.0	2.08
6	8.2	9.0	0.94	9.2	1.42	9.9	1.18
7		7.6	2.34	7.8	2.82	8.6	2.48
8	9.6	8.9	1.04	9.0	1.62	def	.
9	8.7	8.0	1.94	8.7	1.92	8.9	2.18
10	7.9	7.7	2.24	7.8	2.82	8.4	2.68
11	7.8	7.4	2.54	7.9	2.72	8.1	2.98
12	8.7	8.0	1.94	8.0	2.62	9.0	2.08
13	9.7	8.9	1.04	9.1	1.52	9.8	1.28

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1917phae.proj.1161R

Wednesday, May 16, 1917

Scale V

Nov. 18, 1916

MF 324 - Kellinger

G.M.T. mid.	Expo. Length		Sc	B	Sc	C		Cu	Mag.
			F	F				.	.
15 51	2	1							
15 47½	5	2	8.9	9.0	8.95	01		1.47	10.42
15 44	2	3	9.8	9.7	9.75	10		1.03	10.78
15 38	10	4	8.2	8.6	8.40	2		2.33	10.73
15 30½	5	5	8.9	8.9	8.90	00		2.05	10.95
15 27	2	6	def	def	.			.	.
15 21½	9	7	8.1	8.2	8.15	01		2.53	10.68
15 16	2	8	9.7	9.6	9.65	10		e	.
15 12½	5	9	8.7	8.7	8.70	00		2.02	10.72
15 05	10	10	7.9	7.9	7.90	00		2.60	10.50
14 55	10	11	7.8	7.8	7.80	00		2.73	10.53
14 47½	5	12	8.8	8.7	8.75	10		2.13	10.88
14 44	2	13	9.6	9.7	9.65	01		1.29	10.94
									7.13

3:25

Mean mag. 10.71 "29 07 02 24 "03 "01 21 18 17 23

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1917phae.proj.11018

Friday, May 18, 1917

Scale 1

10:40 MF 325 (Kullberg) Kallberg & Comp. Stars

		(a)		(b)		(c)	
	ScBScC	ScBScC	Diff.	ScBScC	Diff.	ScBScC	Diff.
1	7.8	8.6	1.34	8.8	1.82	9.2?	1.88?
2	7.9	8.8	1.14	8.9	1.72	9.7?	1.38?
3	9.9	9.4	0.50	9.4	1.22	9.9	1.18
4	8.4	7.9	2.04	8.0	2.62	8.8	2.28
5	8.9	8.6	1.34	8.8	1.82	9.0	2.08
6	9.8?	9.1	0.84	9.1	1.52	9.8?	1.28?
7	8.6	7.8	2.14	8.0	2.62	8.8	2.28
8	9.8?	8.9	1.04	9.0	1.62	9.7	1.38
9	8.9	8.0	1.94	8.7	1.92	8.9	2.18
10	8.0	7.8	2.14	7.8	2.82	8.6	2.48
11	8.6	7.9	2.04	8.1	2.52	8.7	2.38

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1917phae.proj.1161R

Friday, May 18, 1917

Scale V

nov. 18, 1916

MF325 - Kalenja

G.M.T. mid time	Exp. Length m		Sc/Sc			Cu.	Mag.
16 53½	7	1	8.9	8.8	8.85 10	1.66	10.5 1
16 47½	5	2	9.1	8.9	9.00 1½	1.40	10.40
16 44	2	3	9.9	9.9	9.9000	e	.
16 38	10	4	8.2	8.4	8.30 1 1	2.30	10.60
16 30½	5	5	8.9	8.9	8.9000	2.00	10.90
16 27	2	6	9.7?	9.8	9.7501	1.26	11.01
16 21½	9	7	8.0 8.1	8.6	8.23 2 1 4	2.33	10.56
16 16	2	8	9.7	9.8	9.7501	1.38	11.13
16 12½	5	9	8.8	8.9	8.8501	2.05	10.90
16 05	10	10	8.1	8.0	8.05 10	2.50	10.55
15 56½	7	11	8.6	8.6	8.6000	2.37	10.97
							7.53

11:20

Mean mag. 10.75 24 35 "15 15 26 19 38 15 20 22

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1917phae.proj.11018

For Mem. for mag. of comp. stars See DW.B.6:125-128

Saturday, May 19, 1917

Scale V

MF 313 – Egeria + Comp. Stars

	(Egeria)	(a)		(b)		(c)	
	ScBScC	ScBScC	Diff.	ScBScC	Diff.	ScBScC	Diff.
1	9.3	8.9	1.84	9.3	1.84	F	.
2	8.2	7.7	3.04	7.9	3.24	9.0	3.06
3	8.7	7.9	2.84	7.8	3.34	9.0	3.06
4.	9.1	8.6	2.14	8.7	2.44	F	.
5	9.9?	9.6	1.14	9.9?	1.24	F	.
6	8.7	7.8	2.94	8.6	2.54	8.9	3.16
7	F	9.6	1.14	9.9?	1.24	F	.
8	F	8.9	1.84	Def	.	F	.
9	F	9.6	1.14	F	.	F	.

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1917phae.proj.1161R

Saturday, May 19, 1917

Scale V

MF313 - Egeria

Sc B5c e

				Cu.	Mag.
1	9.6	9.3	9.45 2 1	1.84	11.29
2	8.2	8.2	8.20 0 0	3.12	11.32
3	8.7	8.7	8.70 0 0	3.04	11.74
4	8.9	9.1	9.00 2 1	e	.
5	10.0	9.9	9.95 1 0	1.25	11.20
6	8.7	8.7	8.70 0 0	2.87	11.57
7	F	F	F	.	.
8	F	F	F	.	.
9	F	F	F	.	.
				2.12	

Mean Mag. 11 . 4 2 13 10 32 - 22 15 .....

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1917phae.proj.1161R

Saturday, May 19, 1917

Scale ✓

MF314 - Eqcin & Comp. Stars

	(Eqcin) ScBScC	(a) ScBScC	Diff.	(b) ScBScC	Diff.	(c) ScBScC	Diff.
1	8.9	8.6	2.14	8.9	2.24	9.4	2.66
2	9.0	8.9	1.84	9.0	2.14	9.8?	2.26
3	9.7	9.1	1.64	9.7	1.44	F	.
4	8.6	8.0	2.74	8.6	2.54	9.2	2.86
5	9.9?	9.6	1.14	9.9?	1.24	F	.
6	9.4	9.3	1.44	9.1	2.04	F	.
7	8.7	8.6	2.14	8.9	2.24	9.7	2.36
8	9.6	def	.	9.9?	1.24	F	.
9	8.9	8.7	2.04	8.9	2.24	9.9	2.16
10	8.6	8.6	2.14	8.6	2.54	8.9	3.16
11	8.9	8.9	1.84	8.9	2.24	9.6	2.46

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1917phae.proj.1161R

Saturday, May 19, 1917

Scale V

MF-374 - Equin

	ScB	ScC		Cu.	Mag.
1	8.9	8.9	8.9000	2.30	11.20
2	9.0	9.0	9.0000	2.04	11.04
3	9.9	9.7	9.801±	1.40	11.20
4	8.6	8.6	8.6000	2.70	11.30
5	9.9?	9.9?	9.9000	1.24	11.14
6	9.6	9.4	9.501±	e	.
7	8.9	8.7	8.801±	2.20	11.00
8	9.8?	9.6	9.701±	.	.
9	9.0	8.9	8.9510	2.17	11.12
10	8.8	8.6	8.701±	2.62	11.32
11	8.9	8.9	8.9000	2.05	10.95
				100.237	

Mean Mag 11.14 06 10 06 16 00 .. 14 .. 02
18 19

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1917phae.proj.1161R

Monday, May 21, 1917

Scale ✓

4:10 MF 315 - Eginia + Comp. Stars

(Eginia) (a) (b) (c)

	ScBScC	ScBScC	Diff.	ScBScC	Diff.	ScBScC	Diff.
1	9.2	8.7	2.04	8.8	2.34	9.6	2.46
2	8.7	7.9	2.84	8.6	2.54	8.9	3.16
3	9.0	8.9	1.84	9.0	2.14	9.9	2.16
4	7.8	7.7	3.04	7.8	3.34	8.9	3.16
5	9.5	9.0	1.74	8.9	2.24	10.0	2.06
6	8.6	8.1	2.64	8.6	2.54	9.3	2.76
7	F	F	.	F	.	F	.

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1917phae.proj.1161R

Monday, May 21, 1917

Scale V

Eyepiece - HF 3.5

	Sc	B	Sc	C		Cu.	Mag.
1	9.2		9.2		9.20 00	2.35	11.55
2	8.7		8.7		8.70 00	3.01	11.71
3	9.1		9.0		9.05 10	2.02	11.07
4	7.9		7.8		7.85 10	3.20	11.05
5	9.4		9.5		9.45 01	2.02	11.47
6	8.6		8.6		8.60 00	2.51	11.11
7	F		F		F		

1.96

Mean Mag 11. ~~16~~ 33 22 38 26 28 14 22 "

~~39 55~~

4:20

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1917phae.proj.1161R

Monday, May 21, 1917

Scale V

MF 316 - Egeria + Comp 5 stars -

	(Egeria) ScBScC	(a) ScBScC	Diff	(b) ScBScC	Diff	(c) ScBScC	Diff
1	7.9	7.9	2.84	7.9	3.24	8.8	3.26
2	9.6	9.1	1.64	9.6	1.54	9.9	2.16
3	8.8	7.9	2.84	8.6	2.54	9.2	2.86
4	8.1	7.8	2.94	7.9	3.24	8.8	3.26
5	7.9	7.8	2.94	8.0	3.14	8.8	3.26
6	8.8	8.6	2.14	8.6	2.54	9.5	2.56
7	9.7	9.2	1.54	9.0	2.14	9.9	2.16
8	8.1	7.9	2.84	7.9	3.24	9.0	3.06
9	9.8	9.0	1.74	9.7	1.44	def.	.
10	8.8	8.7	2.04	8.9	2.24	9.4	2.66
11	10.0?	9.7	1.04	9.6	1.54	F	.

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1917phae.proj.11615

200

Monday, May 21, 1917

Scale V

MF 316 – Eginn

Sc B Sc C

				Cu.	Mag.
1	7.9	7.9	7.90 0 0	3.08	10.98
2	9.6	9.6	9.60 0 0	1.84	11.44
3	8.8	8.8	8.80 0 0	2.67	11.47
4	7.9	8.1	8.00 ± 1	3.12	11.12
5	7.9	7.9	7.90 0 0	3.03	10.93
6	8.9	8.8	8.85 10	2.43	11.28
7	9.9	9.7	9.80 1½	2.12	11.92
8	8.0	8.1	8.05 0 1	3.07	11.12
9	9.8	9.8	9.80 0 0	1.40	11 20
10	8.9	8.8	8.85 10	2.20	11.05
11	10.0	10.0?	10.00 0 0	ℓ	

2.51

mean Mag 11.25 27 19 22 13 32 03

~~3~~ 67 13 05 20

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1917phae.proj.11618

Monday, May 21, 1917

Scale V

MF 317 - Eguia & Comp. Stars

	(Eguia)		(a)			(b)			(c)		
	ScB	ScC	ScB	ScC	Diff.	ScB	ScC	Diff	ScB	ScC	Diff
1		8.2	7.9		2.84	7.9		3.24 Film	9.1		2.96
2		9.1	8.9		1.84	9.7		1.44 Scratched	Def.		
3		8.6	7.9		2.84	8.6		2.54	9.3		2.76
4		7.9	7.6		3.14	7.7		3.44	8.8		3.26
5		7.9	7.8		2.94	7.8		3.34	8.7		3.36
6		8.9	8.1		2.64	8.8		2.34	9.2		2.86
7		9.7	9.0		1.74	9.1		2.04	9.9	?	2.16
8		8.6	7.8		2.94	7.9		3.24	8.8		3.26
9		9.8	9.4		1.34	9.7		1.44	F		.
10		8.7	8.6		2.14	8.9		2.24	9.9		2.16
11		8.7	8.6		2.14	8.6		2.54	9.8		2.26

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1917phae.proj.1161R

Monday. May 21, 1917

Scale V

MF 317 - Eyepiece

	Sc	B	Sc	C		Cv.	Mag.
1	8.6	8.2		8.402	2	3.03	11.43
2	9.0	9.1		9.050	1	1.76	10.81
3	8.7	8.6		8.651	0	2.71	11.36
4	7.9	7.9		7.900	0	3.30	11.20
5	7.9	7.9		7.900	0	3.18	11.08
6	8.9	8.9		8.900	0	2.71	11.61
7	9.7	9.7		9.700	0	2.11	11.81
8	8.2	8.6		8.402	2	3.18	11.58
9	9.7	9.8		9.750	1	1.45	11.20
10	8.9	8.7		8.801	½	2.18	10.98
11	8.9	8.7		8.801	½	2.34	11.14
						3.20	

Spec mag. 11.29 14 48 07 09 21 32 52

29 09 31 15.

134
133

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1917phae.proj.11615

Monday, May 21, 1917

Scale V

	MF318 – Eqenia + Comp Stars			
	(Eqenia)	(a)	(b)	(c)
	ScBSc^c	ScBScC	ScBScC	ScBScC
1				
2				
3				
4				
5		Images not comparable with		
6		Scale V – very hazy and		
7		large –		
8				
9				
10				
11				

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1917phae.proj.11615

Monday. May 21, 1917

Scale V

MF 319 - Eguiv & Comp. Stars

	Eguiv	(a)		(b)		(c)	
	ScBSc C	ScBSc C	Diff.	ScBSc C	Diff.	ScBSc C	Diff.
1	F	F	.	F	.	F	.
2	9.6	9.0	1.74	9.6	1.54	F	.
3	1	1	.	1	.	9.8	2.26
4	1	1	.	1	.	1	.
5	1	1	.	1	.	1	.
6	8.8	8.9	1.84	8.9	2.24	9.7	2.36
7	9.7	9.6	1.14	9.9	1.24	F	.
8	8.6	7.6	3.14	8.2	2.94	8.9	3.16
9	9.9?	9.0	1.74	9.9	1.24	F	.
10	9.7	9.3	1.44	9.1	2.04	F	.
11	9.6?	9.0	1.74	9.4	1.74	F	.

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1917phae.proj.1161R

Monday, May 21, 1917

Scale V

MF 319 – Equin

ScBScC

				Cu.	Mag.
1	F	F	F	.	.
2	9.1	9.6	9.35 ± 3	1.62	10.97^{07}
3	i	i	i	.	.
4	i	i	i	.	.
5	i	i	i	.	.
6	8.9	8.8	8.85 10	2.03	10.88^{16}
7	9.6	9.7	9.65 01	1.15	10.80^{24}
8	8.1	8.6	8.35 ± 3	3.07	11.42^{38}
9	F	$9.9^{?}$	$9.90^{?}$. a	1.25	$11.15^{?11}$
10	F	9.7	9.70 . a	e	e
11	F	$9.6^{?}$	9.60 . a	e	e

.2 2

11.04 mean mag.

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1917phae.proj.1161R

Tuesday, May 22, 1917

Scale V

MFz61 - Clio & Comp Stars

	(Clio) ScBScC	(a) S2BScC	Diff	(b) ScBScC	Diff.	(c) ScBScC	Diff
1	7.9	7.6	3.11	8.6	3.31	8.8	3.47
2	8.6	7.7	3.01	8.7	3.21	8.9	3.37
3	8.9	8.8	1.91	9.1	2.81	9.9?	2.37
4	7.8	7.0	3.71	7.9	4.01	8.6	3.67
5	8.9	8.2	2.51	9.2	2.71	9.7	2.57
6	8.0	7.6	3.11	8.7	3.21	8.9	3.37
7	7.8	6.9 6.8	3.81	7.8	4.11	8.0	4.27
8	8.9	8.4	2.31	9.5	2.41	9.76	2.67
9	8.2	~~8.1~~ 7.6	3.11	8.6	3.31	8.9	3.37
10	7.8	* ~~7.8~~ 6.8	3.91	7.9	4.01	8.2	4.07
11	7.9	7.7	3.01	8.0	3.91	8.9	3.37

For maps of comp stars
see D.W.B. 6:138-139

* wrong plate

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1917phae.proj.1161R

Tuesday. May 22, 1917

Scale V.

MF261 - Cl. ScBScC

				Cer.	Mag.
1	7.9	7.9	7.9000	3.17	11.07
2	8.0	8.6	8.3033	3.15	11.45
3	8.9	8.9	8.9000	2.28	11.18
4	7.8	7.8	7.8000	3.82	11.62
5	8.9	8.9	8.9000	2.60	11.50
6	8.0	8.0	8.0000	3.17	11.17
7	7.8	7.8	7.8000	4.14	11.94
8	8.8	8.9	8.8501	2.37	11.22
9	8.0	8.2	8.1011	3.22	11.32
10	7.8	7.8	7.8000	4.01	11.81
11	7.9	7.9	7.9000	3.40	11.30
					4.58

Mean Mag. 11.42 35 03 24 2008 25 52 20 10 39 12

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1917phae.proj.1161R

Tuesday, May 22, 1917

Scale V

M F262 – Clio & Comp. Stars

(Clio) (a) (b) (c)

	ScBScC	ScBScC	Diff.	ScBScC Def	Diff.	ScBScC	Diff.
1	9.7	8.9	1.81	8.8	3.11	Def	
2	7.9	7.7	3.01	9.0	2.91	8.9	3.37
3	8.9	8.2	2.51			9.5	2.77
4	7.8	7.2	3.51	8.0	3.91	8.1	4.17
5	8.9	8.1	2.61	9.1	2.81	9.7	3.57
6	8.1	7.7	3.01	8.6	3.31	8.8	3.47
7	7.8	7.0 6.9	3.71	7.8	4.11	8.2	4.07
8	9.0	8.6	2.11	9.0	2.91	9.8	2.47
9	8.0	7.8	2.91	8.7	3.21	8.8	3.47
10	7.7	7.0 6.9	3.71	7.9	4.01	8.2	4.07
11	7.9	7.6	3.11	8.7	3.21	8.7	3.57

For each frame I find the diff of the two images

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Tuesday, May 22, 1917

Scale V

MF262 – Clio

	Sc	B	Sc	C		Cu.	Mag.
1	8.8	9.7	9.75	10		.	.
2	7.7	7.9	7.80	11		3.00	10.80
3	8.9	8.9	8.90	00		2.75	11.65
4	7.8	7.8	7.80	00		3.87	11.67
5	8.9	8.9	8.90	00		2.71	11.61
6	8.0	8.1	8.05	01		3.12	11.17
7	7.7	7.8	7.75	01		4.03	11.78
8	8.9	9.0	8.95	01		2.51	11.46
9	8.6	8.0	8.30	33		3.10	11.40
10	7.7	7.7	7.70	00		3.90	11.65
11	7.9	7.9	7.90	00		3.20	11.10
						4.29	

Mean mag. 11.43 " 63 22 24 18 26 35 03 03 22 33

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Tuesday, May 22, 1917

Scale V

NF263 - Clio & Comp Stars

	Sc (Clio)	Sc (a)	BSc (a)	C (a) Diff	Sc (b)	BSc (b)	C (b) Diff	Sc (c)	BSc (c)	C (c) Diff
1	8.9		8.2	2.51		9.8	2.11		9.9	2.37
2	8.6		7.8	2.91		8.7	3.21		9.2	3.07
3	8.9		8.6	2.11		9.6	2.31		9.8	2.47
4	7.8	7.0	6.9	3.71		7.9	4.01		8.7	3.57
5	8.9		8.0	2.71		9.1	2.81		9.8	2.47
6	8.2		7.8	2.91		8.7	3.21		8.9	3.37
7	7.7	7.0	6.9	3.71		7.9	4.01		8.6	3.67
8	9.0		8.7	2.01		9.6	2.31		9.7	2.57
9	8.1		7.8	2.91		8.5	3.41		8.9	3.37
10	7.8	7.0	6.9	3.71		7.9	4.01		8.6	3.67
11	8.0		7.6	3.11		8.6	3.31		8.8	3.47

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Tuesday, May 22, 1917

Scale V.

MF263 – Clio –

	ScBScC			Cu.	Mag.
1	8.9	8.9	8.9000	2.38	11.28
2	8.0	8.6	8.3033	3.04	11.34
3	8.9	8.9	8.9000	2.18	11.08
4	7.7	7.8	7.7501	3.83	11.58
5	8.9	8.9	8.9000	2.72	11.62
6	8.2	8.2	8.2000	3.07	11.27
7	7.8	7.7	7.7510	3.83	11.58
8	8.9	9.0	8.9501	2.10	11.05
9	8.3	8.1	8.2071	3.16	11.36
10	7.8	7.8	7.8000	3.82	11.62
11	8.0	8.0	8.0000	3.20	11.20
				3.98	

Mean mag. 11.36 08 02 28 22 26 09 22 29 00 26 14

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Tuesday, May 22, 1917

Scale V

	MF 264- (Clio)	Clio + Comp Stars (a)	(b)	(c)
	ScB ScC	ScB ScC	ScB ScC	ScB ScC
1				
2				
3				
4				
5				
6				
7		Images too far to measure — hazy + defective		
8				
9				
10				
11				
12				
13				
14				

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Wednesday, May 23, 1917

Scale V

Plot sheet 18 & 19.

	MF 232 – (Sugma) Sc B Sc C	Sugma (a) Sc B Sc C	& Comp (b) Sc B Sc C	S. Tais (c) Sc B Sc C
1	9.6	7.9	8.9	9.9?
2	9.8	8.6	9.7	F
3	9.0	7.7	8.0	9.3
4	7.9	6.6	7.8	8.0
5	9.7	8.3	9.3	9.7
6	8.9	7.6	8.7	8.8
7	8.0	6.8 6.7	7.7	8.6
8	8.0	6.9 6.8	7.8	8.7
9	8.9	7.7	8.9	9.1 dey?
10	F	8.9	9.7	F
11	8.9	7.9	8.8	9.8?

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Wednesday, May 23, 1917

Scale V

MF 232 - Siegen
(Siegen)

	Sc	B	Sc	C		Cu	Mag
1	9.6		9.6		9.6000	2.39	11.99
2	9.9		9.8		9.8510	1.69	11.54
3	9.0		9.0		9.0000	3.00	12.00
4	8.0		7.9		7.9510	3.96	11.90
5	9.9		9.7		9.8011/2	2.41	12.21
6	9.1		8.9		9.0011/2	.	.
7	8.1		8.0		8.0510	3.68	11.13
8	8.6		8.0		8.3033/4	3.55	11.85
9	9.0		8.9		8.9510	2.79	11.14
10	F		F		F	.	.
11	8.9		8.9		8.9000	2.56 ~~1.06~~	11.46

Mean 11.82 17 28 18 08 39 " 09 03 08 " 36

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Wednesday, May 23, 1917

Scale V

Plot sheet 19

MF 233 – Sièjeum & Comj S Pavo

	(Sièjeum) ScBScC	(a) ScBScC	(b) ScBScC	(c) ScBScC
1	9.9	8.4	9.0	9.6
2	9.9	8.7	9.5	9.9?
3	8.9	7.7	8.6	8.9
4	7.9	2	7.7	8.1
5	9.6	8.7	9.0	9.6
6	8.9	7.7	8.4	8.8
7	8.1	7.0 6.9	7.9	8.7
8	8.2	7.0 6.9	7.9	8.8
9	8.9	7.9	8.8	9.2
10	9.7	8.7	9.7	9.9
11	8.8	7.7	8.0	8.9
12	F	8.9	9.6	F
13	9.9	8.8	9.5	F

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1917phae.proj.1161R

Wednesday, May 23, 1917

Scale V

MF 233 - Siegen

	Sc	BSc	C		Cu	Magn
1	9.8	9.9	9.8501		.	.
2	9.9?	9.9	9.9000		2.19	12.09
3	8.9	8.9	8.9000		3.13	12.03
4	7.9	7.9	7.9000		3.95	11.85
5	9.5	9.6	9.5501		.	.
6	8.9	8.9	8.9000		.	.
7	7.8	8.1	7.9512		3.52 ~~2.02~~	11.47
8	7.8	8.2	8.0022		3.46	11.46
9	8.9	8.9	8.9000		2.79	11.69
10	9.8?	9.7	9.7510		2.00	11.75
11	8.7	8.8	8.7501		~~2~~ 3 2.41	~~11~~ 12 11.16
12	F	F	F		,	.
13	F	9.9	9.9 .a		.	.

Mean 11.81 " 28 22 04 " .. 34 35 12 06 35 . ..

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Wednesday, May 23, 1917

Scale V

Plot sheet 19

	MF 234 - (Liegenes) ScBScC	Liegenes (a) ScBScC	& Comp. Stars (b) ScBScC	(c) ScBScC
1	9.8	8.7 7.8	9.0	def.
2	8.7	6.9	7.9	8.9
3	9.8	8.8	9.2	def.
4	9.0	7.9	8.9	9.5
5	8.8	7.8	8.2	8.9
6	8.9	7.9	8.6	8.9
7	9.0	8.1	8.9	9.6
8	9.9:	8.9	9.8:	F
9	8.8	9.7	8.3	9.0
10	9.9:	9.1	9.9:	F
11	F	8.8	9.2	9.8

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Wednesday, May 23, 1917

Scale V

MF234 - Siegen

	Sc	B	Sc	C		Cu	Magn
1	9.7		9.8	9.7501		.	.
2	8.6		8.7	8.6501		3.39	12.04
3	9.8		9.8	9.8000		.	.
4	9.0		9.0	9.0000		2.53	11.53
5	8.9		8.8	8.8510		3.35	12.20
6	8.9		8.9	8.9000		3.34	12.24
7	9.0		9.0	9.0000		2.52	11.52
8	9.9?		9.9	9.9000		.	.
9	8.7		8.8	8.7501		.	.
x 10	9.9		9.9	9.9000		1.49	[11.39]
11	9.8?	F		9.80,a -		2.46?,	12.26?

Mean ~~11.84 .. 18 .. 35 32 36 36 .. .. 49 38~~

11.96 .. 08 .. 43 24 28 44 .. .. π 30

x Reject - from incomplete curve.

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1917phae.proj.11618

Wednesday, May 23, 1917

Scale V

Plate sheet 19

MF 235 - Siegena & Comp. Stars

	(Siegena) ScBScC	Siegena (a) ScBScC	(b) ScBScC	(c) ScBScC
1	8.8	7.1	7.9	8.8
2	9.9:	9.0:	9.5	10.0 :
3	9.8	8.0	8.9	9.1
4	8.7	7.1	8.6	8.9
5	8.6	7.1	8.3	8.9
6	9.1	8.0	8.9	9.3
7	9.8	8.9	9.9:	F
8	8.8	7.7	8.1	8.9
9	F	8.9	9.8?	9.9:
10	9.1	8.0	8.9	9.1
11	9.0	7.7	8.7	9.0

x Film scratched here

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1917phae.proj.1161R

Wednesday, May 23, 1917

Scale V

MF 234 - Seizure

	Sc B	Sc C		Cu	Magn
1	8.7	8.8	8.75 01	3.44	12.19
2	F	9.9	9.90 . a	2.13	12.03
3	9.6	9.8	9.70 ± 1	.	.
4	8.6	8.7	8.65 01	3.03	11.68
5	8.7	8.6	8.65 10	3.20	11.85
6	9.2	9.1	9.15 10	2.74	11.89
7	9.9 ?	9.8	9.85 10	1.45	[11.30] x
8	8.7	8.9	8.75 01	3.34	12.09
9	#93	F	9.30 a.	~~1.77~~ 2.27	~~11.07~~ 11.57 ?
10	~~90~~	F	9.1 9.1 . a	2.89	11.99
11	9.0		9.0 0 0	3.02	12.02

Mean ~~11.81 38 22 .. 13 04 08 51 28~~

" ~~11.86 33 17 .. 18 01 03 56 23 29 13 16~~

x Reject - in complete curve

Corr. mean 11.92 27 11 .. 24 07 03 .. 17 35 07 10

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