KG
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Observing Book 3.

Miss Cannon

+ Observatory Assoc.

J.C.M.

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Series reductions in this book as far as p148 made with magns. on scale of HC 170.

Examined through page 135 and magnitudes underlined once when reading is 9.7 or fainter; twice when reading is 10.0 or fainter. Underlining entered where necessary in Book 3 (H.S Regns.) H.S.L. Nov. 30, 1914.

Through page 133, Underlines entered in Books for Series Plates by F.C. Nov. 30, 1914.

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2

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Thursday, April 17, 1913

Series Plates Md 2602 - 2613

Scale M.	Md 2602 1st	2nd	Pole.
5	2.5		
6	3.6		
8	5.2		
9	6.0		
10			
11			
12			
13			
14			incomplete
15			
16			
17			
18			

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1913phae.proj.1031M

Friday, May 2, 1913

Series Plates MD 2602 - 2613

MD 2602 Pole

Scale M	1st	1st		Dis. Comps.			MD 2602	MD 2607 p.10	Mean.	Third Diff.
5	2.7 2.9	2.5 2.7	2.80 1 1	6.5 6.7 1st	6.7 2nd	6.70 0 0	2.80	2.60	2.70	10 10 +3.69
6	3.6 3.8	3.6 3.8	3.80 0 0	7.3	7.1 2nd	7.20 1 1	3.80	3.70	3.75	05 05 3.23
8	5.6 5.8	5.4 2nd	5.60 2 2	9.0	9.0	9.00 0 0	5.60	5.05	5.32	28 27 2.78
9	6.2 6.4	6.3	6.35 0 1	9.8	9.9	9.85 0 1	6.35	6.05	6.20	15 15 2.50
10	6.5 6.7	6.5	6.60 1 1				6.60	6.20	6.40	20 20 2.49
11	6.9 7.1	7.2	7.15 1 0				7.15	7.00	7.08	07 08 2.34
12	7.1 7.3	7.5 2nd	7.40 1 1				7.40	7.15	7.28	12 13 2.45
13		7.8	7.7 7.75 0 1				7.75	7.75	7.75	00 00 2.42
14		8.2	8.1 8.15 0 1				8.15	8.00	8.08	07 08 2.44
15		8.8	8.8 8.80 0 0				8.80	8.65	8.72	08 07 2.22
16		9.1	9.0 9.05 1 0				9.05	8.85	8.95	10 10 2.31
17		9.3	9.2 9.25 1 0				9.25	9.10	9.20	05 05 2.29
18		9.9	10.0 9.95 1 0				9.95	9.90	9.92	03 02 2.00

58 57
÷4 4
+.14 -.14

* see bottom of page.

5	This Comp.	6.70	6.50	6.60	10 10 -0.21
6		7.20	7.30	7.25	05 05 -0.27
8		9.00	8.45	8.72	28 27 -0.32
9		9.85	9.85	9.85	00 00 -1.15

33 32
÷4 4
+.08 -.08

46 49
÷5 5
+.09 -.10

26 24
÷4 4
+.06 -.06 +.10 -.10

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1913phae.proj.1031M

Friday, May 2, 1913

Series Plate MD 2602 - 2613 Cohen

Cal. -.19

MD 2603 120 K

Scale M	1st	2nd	2nd		Curve Magn	Pris. Comp.
1	6.2 6.4	6.3	6.35	01	+2.53	8.88 two ft. to meas.
2	6.6 6.8	6.8	6.80	00	2.48	9.28
3		7.6 7	7.7 7.65	01	2.39	10.04
4		8.2	8.5 8.35	21	2.32	10.67
5		8.9	8.8 8.85	10	2.27	11.12
6		9.1	9.1 9.10	00	2.24	11.34
7		9.5	9.5 9.50	00	2.20	11.70
8	~~9.8~~	9.8	9.9 9.85	01	2.13	11.98

Scratch on plate goes through segment.

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Friday, May 2, 1913

Series Plates MD 2602 - 2613 cont'd

Com. +.22

MD 2604 24 K

Scale M	1st	2nd	2nd	Curve Magn.			2nd	Pris. Comp. 2nd		Curve Magn.	
1	4.0 4.2	4.0	4.10	10	+3.11	7.21	8.0	8.0	8.00	00	-0.47	7.53
2	6.5 6.7	6.7	6.70	00	2.49	9.19	9.6	9.7	9.65	01	-1.01	8.64
3	6.9 7.1	7.0	7.05	10	2.45	9.50						
4		7.8	8.0	7.90	11	2.37	10.27					
5		8.0	8.1	8.05	01	2.35	10.40					
6		8.7	8.8	8.75	10	2.29	11.04					
7		9.1	9.0	9.05	10	2.24	11.29					
8		9.4	9.5	9.45	01	2.20	11.65					
9		9.6	9.6	9.60	00	2.18	11.78					

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Friday, May 2, 1913

Series Plates MD 2602 - 2613 cloud.

Corr. +.06

MD 2605 96 K

Scale M	1st		2nd	2nd	Curve Magn.		
1	6.2	6.4	6.3	6.35	0.1	+2.53	8.88 Dris. comp too ft.
2	6.2	6.4	6.3	6.35	0.1	2.53	8.88
3			6.9	7.0	6.95	1.0	2.46 9.41
4			7.5	7.3	7.40	1.1	2.41 9.81
5			8.0	8.0	8.00	0.0	2.36 10.36
6			8.7	8.6	8.65	1.0	2.30 10.95
7			9.2	9.3	9.25	0.1	2.21 11.46

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1913phae.proj.1031M

Friday May 2, 1913

Series Plates MD 2602 - 2613 Capuchin

Con. -.18

MD 2606 D 3 $5^h - 15^\circ$

Scale M	1st	1st 2nd	Curve	Magn.	Pris. comp. 2nd	2nd	Curve	Magn.
1	3.6 3.8	3.5 3.7 3.75 0 1	+3.26	7.01	7.5	7.3 7.40 1 1	-0.30	7.10
2	3.7 3.9	3.6 3.8 3.85 1 0	3.22	7.07	7.6	7.3 7.45 2 1	-0.34	7.11
3	3.8 4.0	3.8 4.0 4.00 0 0	3.16	7.16	7.7	7.5 7.60 1 1	-0.36	7.24
4	4.0 4.2	2nd 4.0 4.10 1 1	3.11	7.21	7.9	7.8 7.85 1 0	-0.41	7.44
5	4.5 4.7	4.6 4.65 1 0	2.95	7.60	8.1	8.0 8.05 1 0	-0.47	7.58
6	4.8 5.0	4.9 4.95 0 1	2.88	7.83	8.2	8.0 8.10 1 1	-0.48	7.68
7	5.1 5.3	5.1 5.20 1 1	2.80	8.06	8.6	8.6 8.60 0 0	-0.61	7.99
8	5.0 5.2	4.9 5.05 2 1	2.83	7.88	8.5	8.3 8.40 1 1	-0.56	7.84
9	5.6 5.8	5.6 5.70 1 1	2.67	8.37	9.0	8.8 8.90 1 1	-0.71	8.19
10	6.0 6.2	6.1 6.15 0 1	2.58	8.73	9.6	9.4 9.50 1 1	-0.94	8.56
11	6.1 6.3	6.2 6.25 1 0	2.56	8.81	9.7	9.6 9.65 1 0	-1.01	8.64
12	6.3 6.5	6.3 6.40 1 1	2.51	8.91				
13	6.5 6.7	6.8 6.75 1 0	2.49	9.24				
14	7.0 7.2	7.3 7.25 0 1	2.41	9.66				
15		7.7 7.7 7.70 0 0	2.39	10.09				
16		7.9 7.8 7.85 1 0	2.38	10.23				
17		8.0 8.0 8.00 0 0	2.36	10.36				
18		8.6 8.5 8.55 0 1	2.30	10.85				
19		8.7 8.6 8.65 1 0	2.30	10.95				
20		8.8 8.8 8.80 0 0	2.28	11.08				
21		9.5 9.3 9.40 1 0	2.20	11.66				

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Friday, May 2, 1913.

Series Plate MD 2602 - 2613

MD 2607 Pole

Scale M	1st	1st		Prin. comp. 1st	2nd	2nd
5	2.3 2.5	2.5 2.7	2.60 1 1	6.3 6.5	6.5	6.50 0 0
6	3.4 3.6	3.6 3.8	3.70 1 1	7.1 7.3	7.3	7.30 0 0
8	4.9 5.1	2nd 5.0	5.05 1 0		8.5	8.4 8.45 1 0
9	5.9 6.1	6.0	6.05 1 0		9.9	9.8 9.85 1 0
10	6.0 6.2	6.2	6.20 0 0			
11	6.9 7.1	6.9	7.00 0 1			
12	7.0 7.2	W. S. 7.1 6.9	7.15 0 1			
13		7.8	7.7 7.75 0 1			
14		8.0	8.0 8.00 0 0			
15		8.6	8.7 8.65 0 1			
16		8.9	8.8 8.85 1 0			
17		9.2	9.1 9.15 0 1			
18		9.9	9.9 9.90 0 0			

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Saturday, May 3, 1913

Series MD 2602 - 2613

MD 2607

Pole

Scale M.	1 st	1 st		MD 2613 p.17	Mean	Res.	Diff.	Pris.	comp.		Mean	Diff
5	2.6 2.8	2.6 2.8	2.80 0 0	2.60	2.70	10	10	+3.69	6.0 6.2	6.1	6.15 0 1	6.10 6.12 05 03 12 02 4 7
6	3.7 3.9	3.5 3.7	3.80 1 1	3.65	3.72	08	07	3.26	7.0 7.2	7.2	7.20 0 0	7.05 7.12 08 07 14 14
8	5.0 5.2	2nd 5.4	5.30 1 1	5.10	5.20	10	10	2.90		8.8	8.5 8.65 2 1	8.40 8.52 13 12 042
9	6.0 6.2	6.1 6.4	15 0 1 6.30 +2	6.05	6.18	0 05	05 05	60 2.38		9.7	9.6 9.65 1 0	9.20 9.42 23 22 -0.72
10	6.1 6.3	6.5 6.8	6.35 1 0	6.40	6.38	03	02	2.51				9.60 -0.71
11	6.5 6.7	6.7	6.60 1 1	6.90	6.75	15	15	2.67				#1 #3
12	6.8 7.0	7.2	2nd 6.85 2 1	7.15	7.00	15	15	2.73				4 4
13	swamp	7.6 7.8	7.53 7.70 3 13	7.30	7.38 42	7.9 8	11 20	12 20 2.75				+.12 +.11
14		8.0 8.2	8.10 1 1	8.00	8.05	05	05	2.47				
15		8.5 8.4	8.45 1 0	8.25	8.35	10	10	2.59				
16		9.0 8.8	8.90 1 1	8.80	8.85	05	05	2.41				
17		9.2 9.2	9.20 0 0	9.00	9.10	10	10	2.39				
18		9.6 9.6	9.60 0 0	9.35	9.48	12	13	2.44				
19				9.80	9.80			2.48				

33 32
+.08 4
-.08

-.17 15
5 5
-0.14 +.10

37 38
11 4
+.09 -.10

53 55
13 13
+.04 -.04

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1913phae.proj.1031M

Saturday, May 3, 1913

Series Plates MD 2602 - 2613

Cloudy

Corr. +15

MD 2608 α 3. 5^h $+15^\circ$

Scale M	1st	1st			Curve	Magn.	1st Pris.	2nd comp.		Curve	Magn.
1	2.8 3.0	2.7 2.9	2.95 0 1		+3.58	6.53 .64	6.5 6.7	6.6		6.65 1 0 +0.05	6.70 .31
2	3.0 3.2	3.0 3.2	3.20 0 0		3.49	6.69 .80	6.9 7.1	6.8		6.95 1 2 -0.01	6.94 7.07
3	3.7 3.9	3.6 3.8	3.85 1 0		3.27	7.12 .25	7.2 7.4	7.3	2nd	7.35 0 1 -0.14	7.21 .34
4	3.7 3.9	3.7 3.9	3.90 0 0		3.26	7.16 .29		7.8	7.8	7.80 0 0 -0.28	7.52 .65
5	4.0 4.2	2nd 4.0	4.10 1 0		3.19	7.29 .42		8.0	7.8	7.90 1 1 -0.30	7.60 .73
6	4.2 4.4	4.1	4.25 2 1		3.14	7.39 .52		8.0	7.9 8.0	7.95 0 1 -0.31	7.64 .77
7	4.6 4.8	4.8	4.80 0 0		3.00	7.80 .93		8.4	8.4	8.40 0 0 -0.45	7.95 8.08
8	4.8 5.0	5.0	5.00 0 0		2.95	7.95 8.08		8.6	8.6	8.60 0 0 -0.49	8.11 .24
9	5.8 5 5.7	5.5	5.60 1 1		2.79	8.39 .52		9.0	9.3	9.25 2 1 -0.65	8.60 .73
10	5.8 6.0	5.7	5.85 2 1		2.73	8.58 8.71		9.1	9.4	9.25 1 2 -0.65	8.60 .73
11	5.9 6.1	5.9	6.00 1 1		2.70	8.70 .83		9.3	9.5	9.40 1 1 -0.68	8.72 .85
12	6.0 6.2	6.1	6.15 0 1		2.69	8.84 .97		9.8	9.9	9.85 0 1 -0.79	9.06 .19
13	6.3 6.5	6.3	6.40 1 1		2.64	9.04 .17					
14	6.9 7.1	7.0	7.05 1 0		2.56	9.61 .74					
15	7.1 7.3	7.4 2nd 0	7.35 1 0		2.52	9.87 10.00					
16		7.6	7.6	7.60 0 0	2.50	10.10 .23					
17		7.6	7.5	7.55 0 1	2.51	10.06 .19					
18		7.6	7.8	7.85 1 0	2.49	10.34 .47					
19		8.0	8.0	8.00 0 0	2.49	10.49 .62					
20		8.2	8.2	8.20 0 0	2.48	10.68 .81					
21		8.5	8.4	8.45 1 0	2.47	10.92 11.06					
22		8.8	8.7	8.75 0 1	2.46	11.21 .35					
23		9.1	9.0	9.05 1 0	2.45	11.56 .64					
24		9.6	9.5	9.55 0 1	2.44	11.99 12.18					

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Saturday, May 3, 1913

Series Plates MD 2602 - 2613

Comets.

Con. +.06

MD 2609 97 K

Scale M	1st	1st		Curve Magn.	Prin. sump. 1st rec.	2nd	Curve Magn.
1	3.0 3.2	3.0 3.2	3.20 00	+3.49 6.69	6.16.3	6.3	6.00 00 +0.19 6.49
2	6.8 7.0	2nd 6.8	6.90 1 1	2.58 9.48			
3	6.9 7.1	7.0 2nd	7.05 1 0	2.56 9.61			
4		8.0 7.8	7.90 1 1	2.49 10.39			
5		8.5 8.6	8.55 1 0	2.46 11.01			
6		8.9 8.8	8.85 1 0	2.45 11.30			
7		9.2 9.1	9.15 0 1	2.44 11.54			
8		9.6 9.5	9.55 0 1	2.44 11.99			

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Saturday, May 3, 1913

Series Plates MD 2602 - 2613

copied

Cor. +.21

MD 2610 23 Ks.

Scale M.	1st	2nd			Curve Magn.	Pris.	2nd	2nd	.65			Curve Magn.
1	3.8 4.0	4.0		4.00	00 +3.21	7.21	7.7	7.6	7.50	2 0	-0.24	7.41
2	4.8 5.0	5.0		5.00	00 2.94	7.94	8.6	8.5	8.55	0 1	-0.47	8.08
3	6.0 6.2	6.0		6.10	1 1 2.70	8.80	9.3	9.3	9.30	0 0	-0.66	8.64
4	7.0 7.2	7.0	2nd	7.10	1 1 2.56	9.66	10.0?	10.0?	10.00	0 0	-0.81	9.19?
5		7.6	7.5	7.55	0 1 2.51	10.06						
6		7.8	7.8	7.80	0 0 2.50	10.30						
7		8.1	8.0	8.05	1 0 2.49	10.54						
8		8.7	8.7	8.70	0 0 2.46	11.16						
9		9.6	9.5	9.55	0 1 2.44	11.99						

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Saturday, May 3, 1913. (cloudy)

Series Plates. MD 2602 - 2613

Con. +22

MD 26 11 25 K.

Scale M.	1st	2nd		Curve	Imagn.	Prin. comp. 1st	2nd	2nd	Curve	Imagn.
1	3.8 4.0	3.9	3.95	0 1	+3.23	7.18	7.0 7.2	7.1	7.15 0 1	-0.09 7.06
2	3.9 4.1	4.0	4.05	1 0	3.20	7.25	7.1 7.3	7.2	7.25 1 0	-0.11 7.14
3	5.7 5.9	5.7	5.80	1 1	2.75	8.55		9.0	9.1 9.05	0 1 -0.60 8.45
4	7.1 7.3	7.4	2nd 7.35	1 0	2.52	9.87				
5		8.5	8.4 8.45	1 0	2.47	10.92				
6		8.9	8.7 8.80	1 1	2.45	11.25				
7		9.7	9.6 9.65	1 0	2.44	12.09				
8		9.8	9.8 9.80	0 0	2.44	12.24				

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Saturday, May 3, 1913

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Series Plates MD 2602 - 2613

Con. +.14

MD 2612 25 Ks.

Scale M.	1st	1st			Curve Magn.	Prin. 1st	comp. 2nd		Curve Magn.
1	3.0 3.2	2.8 3.0	3.10	1	1 +3.51	6.61	6.6 6.8	6.8	6.80 0 0 +0.01 6.81
2	3.5 3.7	3.4 3.6	3.65	1	0 3.33	6.98	7.0 7.2	7.0	2nd 7.10 1 1 -0.07 7.03
3	5.7 5.9	2nd 5.8	5.85	1	0 2.73	8.58		9.0	9.1 9.05 0 1 -0.60 8.45
4	6.6 6.8	6.8	6.80	0	0 2.50	9.40			
5	6.8 7.0	7.0	7.00	0	0 2.57	9.57			
6	7.0 7.2	7.4	2nd 7.30	1	1 2.52	9.82			
7		7.8	7.8 7.80	0	0 2.50	10.30			
8		8.5	8.2 8.35	1	2 2.47	10.82			
9		8.8	8.6 8.70	1	1 2.46	11.16			
10		9.0	9.0 9.00	0	0 2.45	11.45			
11		9.6	9.5 9.55	0	1 2.44	11.99			
12		9.9	10.0 9.95	1	0 2.44	12.39			

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1913phae.proj.1031M

Saturday, May 3, 1913.

Series Plate MD 2602 - 2613

Scale M.	1st	MD 2613 1st	See p. 11		Pole 1st	2nd	Prin. Axis
5	2.5 2.7	2.3 2.5	2.60 1.1		6.0 6.2	6.0	4.10 1.0
6	3.5 3.7	3.4 3.6	3.65 1.0		6.9 7.1	7.0	2nd 7.05 1.0
8	5.0 5.2	2nd 5.0	5.10 1.0			8.5	8.3 8.40 1.1
9	6.0 6.2	5.9	6.05 2.1			9.2	9.2 9.20 0.0
10	6.3 6.5	6.3	6.40 1.1			9.6	9.6 9.60 0.0
11	6.7 6.9	6.9	6.90 0.0				
12	7.0 7.2	7.1	2nd 7.15 0.1				
13		7.2	7.4	7.30 1.1			
14		8.0	8.0	8.00 0.0			
15		8.3	8.2	8.25 1.0			
16		8.8	8.8	8.80 0.0			
17		W.S. ~~8.5~~ 9.0	9.0	9.00 0.0			
18		9.3	9.4	9.35 1.0			
19		9.8	9.8	9.80 0.0			

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1913phae.proj.1031M

Tuesday, May 6, 1913

Series Plates MD 2657 – 2668

MD 2657 Pole Pris. comp.

Scale M.	1st	1st	MD 2662 μ.23	MD 2668 μ.30	Mean	Diff.	1st	2nd	Mean	Diff.
5	2.9 3.1	2.8 3.0	3.05 10	2.95	2.98	07 03 03	6.5 6.7	6.8	6.75 10 6.80	7.00 6.85 10 05 15 -0.46
6	3.6 3.8	3.7 3.9	3.85 01	3.75	3.75	3.78 07 03 03	7.0 7.2	7.3	2nd 7.25 01 7.25	7.53 ~~7.58 27 27 3~~ 7.35 10 10 20 -0.37
8	5.2 5.4	5.4 2nd	5.40 00	5.10	5.45	5.32 08 22 13	2.78	9.0	8.8 8.85 20 8.60	8.55 8.67 18 07 12 -0.57
9	6.0 6.2	6.0	6.10 11	5.95	6.10	6.05 05 10 05	2.65	9.5	9.4 9.45 10 9.20	9.60 9.42 03 22 18 -0.72
10	6.5 6.7	6.6	6.65 10	6.10	6.30	6.35 30 25 05	2.54	9.8	9.7 9.75 01 9.75	. 9.75 00 00 -0.86
11	6.8 7.0	7.0	7.00 00	6.80	6.90	6.90 10 10 00	2.52		. 10.00	. 10.00 . a -0.58
12	7.0 7.2	7.4 2nd		7.30 11	7.15	7.20 7.22 08	07 02 2.51			
13		7.7	7.7	7.70 00	7.80	7.75 7.75 05	05 00 2.32			
14		8.8	8.9	8.85 01	8.00	8.00 8.28 57	28 28 2.24			
15		8.6	8.6	8.60 00	8.50	8.45 ~~8.78~~ 8.52	08 02 07 2.42			
16		9.0	9.1	9.05 01	9.00	9.05 9.03	02 03 02 2.23			
17		9.3	9.4	9.35 10	9.25	9.15 9.25	10 00 10 2.24			
18					9.55	9.65 9.60	05 05 2.32			

1 / 5 / +.00 / 03 / 2 / +.02 / .15 / 01 / 5 / -.00

-.42 44/5 41/4 -.01 -.09 +.10

27 38/4 12/4 +.07 -.10 +.03

100/5 -65/5 35/5 +.20 -.13 -.07

30/3 10/4 10/4 +.07 -.025 -.025 Copied.

~~152~~ 147/12 113/13 33/13 +.13 -.09 -.03

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Tuesday, May 6, 1913

Coincid.

Series Plates MD 2657-2668

Corr. +.06

MD 2658 102 K Pris. comps.

Diff.	Scale M.		1st		1st		Curve	Magn.	1st	2nd	2nd		Curve	Magn.
-0.46		1	3.8 3.5		3.4 3.6	3.55 ± 0	+3.26	6.81	7.0 7.2	7.4		7.30 ± 1	-0.41	6.89
-0.37		2	4.7 4.9		2nd 5.0	4.95 ± 0	2.84	7.79		8.5	8.5	8.50 0 0	-0.53	7.97
-0.57		3	6.1 6.3		6.3	6.30 0 0	2.56	8.86		9.8	9.8	9.80 0 0	-0.71	9.09
-0.72		4	6.6 6.8		6.8	6.80 0 0	2.49	9.29						
-0.86		5	7.0 7.2		7.2	2nd 7.20 0 0	2.43	9.63						
-0.58		6			8.0	8.0 8.00 0 0	2.33	10.33						
41		7			8.5	8.3 8.45 ± 1	2.30	10.70						
4														
+.10		8			9.2	9.3 9.25 0 1	2.26	11.51						

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Series Plates MD 2657 - 2668

Com. +.21

MD 2659 13K Pris. comp.

Scale M.	1st	2nd			Curve	Magn.	2nd	2nd		Curve	Magn.
1	4.9 5.1	5.0	5.05	1 0	+2.83	7.88	8.6	8.6	8.60 0 0	−0.55	8.05
2	6.5 6.7	6.8	6.75	1 0	2.49	9.24	9.8	9.9	9.85 0 1	−0.72	9.13
3	~~7.0~~ 6.8 7.0	7.1	7.05	0 1	2.45	9.50					
4	7.0 7.2	7.2	2nd 7.20	0 0	2.42	9.62					
5		8.1	8.1	8.10 0 0	2.32	10.42					
6		8.6	8.5	8.55 0 1	2.30	10.85					
7		9.0	9.0	9.00 0 0	2.27	11.27					
8		9.6	9.5	9.55 0 1	2.24	11.79					
9		9.9	10.0	9.95 1 0	2.24	12.19					

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1913phae.proj.1031M

Tuesday; May 6, 1913

Series Plates MD 2657 - 2668 cloud

Con. + 22

MD 2660 55 K Bris. comp. too ft.

Scale M.	1st	2nd		Curve	Magn.
1	6.5 6.7	6.6	6.65 1 0	+2.50	9.15
2	6.8 7.0	7.0	7.00 0 0	2.46	9.46
3	7.0 7.2	7.2	2nd 7.20 0 0	2.42	9.62
4		8.0 8.4	8.05 0 1	2.33	10.38
5		8.5 8.5	8.50 0 0	2.30	10.80
6		9.1 9.0	9.05 1 0	2.26	11.31
7		9.8 9.7	9.75 0 1	2.24	11.99

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Tuesday, May 6, 1913

Series Plates MD 2657 - 2668

MD 2661 31 K Bris. comp.

Scale M. 1st

Plate does not identify in recorded pro. cannot measure.

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Tuesday, May 6, 1913

Series Plates 2657 – 2668

MD 2662 Pole

Scale M.	1st.	1st	Sec. h. 18	Pris. comp. 1st	Pris. comp. 2nd	
5	2.8 3.0	2.7 2.9	2.95 0 1	6.6 6.8	6.8	6.80 0 0
6	3.5 3.7	3.6 3.8	3.75 1 0	7.0 7.2	7.3	2nd 7.25 1 0 (0 1)
8	5.0 5.2	2nd 5.0	5.10 1 1		8.7	8.5 8.60 1 1
9	5.8 6.0	5.9	5.95 0 1		9.2	9.2 9.20 0 0
10	6.0 6.2	6.0	6.10 1 1		9.8	9.7 9.75 0 1
11	6.5 6.7	6.9	6.80 1 1		10.0	10.0 10.00 0 0
12	6.8 7.0	7.3	7.15 2 1			
13	7.6 7.8	7.8	2nd 7.80 0 0			
14		8.0	8.0 8.00 0 0			
15		8.5	8.5 8.50 0 0			
16		9.0	9.0 9.00 0 0			
17		9.2	9.3 9.25 1 0			
18		9.5	9.6 9.55 1 0			
19						

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Tuesday, May 6, 1913

Series Plates MD 2657 - 2668 copied

Con. +1.22

MD 2663 56 K

Scale M.	1st		2nd		Curve	Magn.	Pris. comp. 2nd	2nd	Curve	Magn.
1	5.6	5.8	5.8	5.80 00	+2.66	8.46	9.1	9.1	9.10 00	−0.61 8.49
2	5.8	6.0	5.9	5.95 0 1	2.63	8.58	9.2	9.2	9.20 00	−0.62 8.58
3	6.7	6.9	6.9	6.90 00	2.48	9.38	9.9	10.0	9.95 1 0	−0.74 9.21
4	7.0	7.2	7.4	2nd 7.30 1 1	2.41	9.71				
5			8.1	7.9 8.00 1 1	2.33	10.33				
6			8.8	8.8 8.80 00	2.28	11.08				
7			9.3	9.4 9.35 1 0	2.25	11.60				

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Tuesday, May 6, 1913.

Cloudy.

Series Plates MD 2657-2668

Con. +17

MD 2664 80K

Scale M.	1st	1st	2nd			Curve	Magn.	Pris. comp. 2nd	2nd			Curve	Magn.
1	3.9 4.1	3.9	4.1 4.0	4.07	0 0 1	+3.09	7.16	7.9	7.8	7.85	1 0	-0.48	7.37
ws. 2	4.2 ~~7.0~~ 4.4	2nd 4.3		4.35	0 1	3.00	7.35	8.1	8.0	8.05	1 0	-0.50	7.55
3	5.2 5.4	5.3		5.35	0 1	2.77	8.12	8.8	8.7	8.75	0 1	-0.57	8.18
4	6.0 6.2	6.0		6.10	1 1	2.60	8.70	9.8	9.7	9.75	0 1	-0.70	9.05
5	7.0 7.2	7.0		7.10	1 1	2.44	9.54						
6		7.8	7.6	7.70	1 1	2.37	10.07						
7		7.7	8.0	7.85	1 2	2.36	10.21						
8		8.5	8.6	8.55	1 0	2.30	10.85						
9		9.0	9.0	9.00	0 0	2.27	11.27						
10		9.3	9.4	9.35	1 0	2.24	11.59						

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Series Plates MD 2657-2668

Con. +.14

Scale M

MD 2665 5 K

	1st		2nd			Curve	Magn.	Pris. comp. 2nd		2nd	Curve	Magn.
1	4.2	4.4	4.3	4.35	0 1	+3.00	7.35	8.7		8.6	8.65 1 0	-0.56 8.09
2	5.5	5.7	5.7	5.70	0 0	2.68	8.38	9.2		9.2	9.20 0 0	-0.62 8.58
3	5.8	6.0	5.8	5.90	1 1	2.64	8.54	9.4		9.3	9.35 0 1	-0.65 8.70
4	6.2	6.4	6.2	2nd 6.30	1 1	2.56	8.86	10.0		10.0	10.00 0 0	-0.75 9.25
5			7.3	7.30	0 0	2.41	9.71					
6			7.9	7.85	1 0	2.36	10.21					
7			8.5	8.45	1 0	2.30	10.75					
8			9.2	9.15	0 1	2.26	11.41					
9			9.6	9.65	0 1	2.24	11.89					

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Tuesday, May 6, 1913

Coincid.

Series Plates MD 2657 - 2668

Com. +.06

MD 2666 104 K

Scale M.	1st		2nd			Curve	Imagn.	Pris. comp. 2nd	2nd			Curve	Imagn.
1	5.8	6.0	5.8	5.90	1	1	+2.64	8.54	8.2	8.3	8.25	0	1	-2.50	7.75
2	7.0	7.2	7.0	2nd 7.10	1	1	2.44	9.54							
3			8.0	7.8	7.90	1	1	2.35	10.25						
4			8.3	8.5	8.40	1	1	2.30	10.70						
5			9.0	8.7	8.85	2	1	2.28	11.13						
6			8.8	8.8	8.80	0	0	2.28	11.08						
7			9.2	9.2	9.20	0	0	2.26	11.46						

Images my sharp.
not my comparable with scale.

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1913phae.proj.1031M

Tuesday, May 6, 1913

Series Plates MD 2657 - 2668 Chuck

Con. +.23

MD 2667 32 K Pris. comp.

Scale M.

	1st	2nd		Curve	Magn.	2nd	2nd	Curve	Magn.
1	5.0 5.2	5.0	5.10 1 1	+2.81	7.91	8.5	8.4	8.45 1 0 -0.53	7.92
2	6.0 6.2	6.1	6.15 0 1	2.60	8.75	9.4	9.3	9.35 0 1 -0.65	8.70
3	2nd 7.7	7.6	7.65 1 0	2.37	10.02				
4	8.4	8.3	8.35 0 1	2.30	10.65				
5	8.8	9.0	8.90 1 1	2.27	11.17				
6	9.0	9.0	9.00 0 0	2.27	11.27				
7	n.s.								

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Tuesday, May 6, 1913

Series Plates MD 2657 – 2668

Scale M.	MD 2668	Pole.	Pris. comp.
	1st	1st	
5	2.7	2.6	
6	3.8		
8	~~6.1~~ 5.0	~~6.1~~ 5.0	
9	6.7		
10	6.8		
11	7.0		
12			
13			
14			
15			
16			
17			
18			

reject

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Tuesday, May 6, 1913

Series Plates MD 2657-2668

See p. 18

MD 2668 Pole

Scale M.	1st	1st		Pris. comp. 1st	2nd
5	2.8 3.0	2.7 2.9	2.95 0 1	6.8 7.0	7.0 7.00 0 0
6	3.6 3.8	3.5 3.7	3.75 0 1	2nd 7.6	7.5 7.55 0 1
8	5.2 5.4	2nd 5.5	5.45 0 1	8.5	8.6 8.55 1 0
9	6.0 6.2	6.0	6.10 1 1	9.6	9.6 9.60 0 0
10	6.2 6.4	6.2	6.30 1 1		
11	6.6 6.8	7.0	6.90 1 1		
12	7.0 7.2	7.2	2nd 7.20 0 0		
13		7.7	7.8 7.75 1 0		
14		8.0	8.0 8.00 0 0		
15		8.4	8.5 8.45 0 1		
16		9.0	9.1 9.05 0 1		
17		9.1	9.2 9.15 1 0		
18		9.6	9.7 9.65 0 1		

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Wednesday, May 7, 1913

Series Plates MD 2675 - 2686

Scale M. MD 2675 Pole Pris. comp.

	1st	1st			MD 2680 M.35	MD 2686 M.41	Mean Resid Diff				1st	2nd				Mean Res. Diff
5	2.0 2.2	2.0	2.20	0 0	2.30	2.05	2.18	02	12	13	+1.21	6.1 6.3	6.1	6.20	1 1	6.15	6.20	6.18 02 03 02 +0.21
6	3.0 3.2	3.0 2nd 3.2	3.20	0 0	3.20	3.10	3.17	03	03	07	3.81	7.0 7.2 2nd	7.0	7.10	1 1	7.00	7.00	7.03 07 03 05 2.05
8	5.0 5.2	5.0	5.10	1 1	5.00	5.00	5.03	07	03	03	3.07	8.3	8.4	8.35	1 0	7.95 8.00	8.10	8.13 22 18 03 -0.08
9	5.6 5.8	5.8	5.80	0 0	5.56	5.45	5.60	20	04	15	3.10	9.0	9.0	9.00	0 0	9.00	8.80	8.93 07 07 13 -0.23
10	5.8 6.0	5.9	5.95	0 1	5.75	6.10	5.93	02	18	17	2.96	9.3	9.2	9.25	1 0	9.20	9.15	9.20 05 10 05 -0.31
11	6.1 6.3	6.5	6.40	1 1	6.15	6.45	6.33	07	18	12	3.09	9.8	9.7	9.75	0 1	9.80	9.70	9.75 00 05 05 -0.33
12	6.5 6.7	6.9	6.80	1 1	6.60	6.75	6.68	12	18	07	3.05							
13	7.0 2nd 7.2	7.2	7.20	0 0	7.20	7.10	7.17	03	03	07	3.00							
14	7.8	7.8	7.80	0 0	7.70	7.65	7.72	08	02	07	2.80							
15	8.0	8.2	8.10	1 1	8.00	8.05	8.05	05	05	00	2.89							
16	8.3—	8.6	8.55	1 0	8.15	8.20	8.30	25	15	10	2.96							
17	8.8	8.8	8.80	0 0	8.60	8.70	8.70	10	10	00	2.79							
18	9.2	9.3	9.25	0 1	9.15	9.00	9.13	12	02	13	2.79							
19	9.8	9.8	9.80	0 0	9.75	9.40	9.67	13	08	22	2.61							

29 21 06
3 3 3
+.10 -.04 -.02

12 12 23
3 3 3
+.04 +.04 -.08

11 09 29
6 6 6
+.07 -.02 -.05

34 10 21
5 5 5
+.07 -.02 -.04

30 36
4 4 05
+.08 -.09 4
+.01

65 20 45
5 5 5
+.13 -.04 -.09

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(Arrow is not yet checked) ✓

129 65 61
14 14 14
+.09 -.05 -.04

MD 2676 does not converge; omitted.

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Wednesday, May 7, 1913

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~~2657 - 2668~~

Cor. -0.18

Scale M. MD 2677 122 K Pris. comps.

	1st	2nd		Curve	Magn.	2nd	2nd		Curve	Magn.
1	5.8 6.0	6.0	6.00 0.0	+3.07	9.07	9.0	9.0	9.00 0.0	-2.24	6.66
2	6.0 6.2	6.0	6.10 1.1	3.06	9.16	9.4	9.2	9.30 1.1	-2.28	7.02
3	6.5 6.7	6.6	6.65 1.0	3.00	9.65	9.5	9.6	9.55 1.0	-2.31	7.24
4	6.9 7.1	7.0	7.05 1.0	2.97	10.02					
5	2nd 7.9	8.0	7.95 1.0	2.87	10.82					
6	8.5	8.6	8.55 1.0	2.80	11.35					
7	8.6	8.7	8.65 0.1	2.80	11.45					
8	9.0	9.0	9.00 0.0	2.77	11.77					
9	9.3	9.4	9.35 1.0	2.73	12.08					
10	9.9	9.8	9.85 1.0	2.67	12.52					
11	m.s.									

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Wednesday, May 7, 1913

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Series Plates MD ~~2657-2668~~

Scale M MD 2678 74 K

Pris. comps.

	1st	1st				1st	2nd			Curve	Magn.
1	3.0 3.2	2.8 3.0	3.10	1	1	Curve +3.80	Magn. 6.90	6.5 6.7	6.8	6.75	1.0	+0.07	6.82
2	5.3 5.5	2nd 5.2	5.35	1	2	3.15	8.50	2nd 8.8	8.8	8.80	0.0	-0.21	8.59
3	5.8 6.0	5.8	5.90	1	1	3.08	8.98	9.0	9.0	9.00	0.0	-0.23	8.77
4	6.2 6.4	6.6	6.50	1	1	3.01	9.51	9.9	10.0	9.95	1.0	.	.
5	6.9 7.1	7.0	7.05	1	0	2.97	10.02						
6	2nd 8.0	8.0	8.00	0	0	2.87	10.87						
7	8.5	8 8.4	8.45	1	0	2.81	11.26 ~~12.86~~						
8	9.0	8.8	9.0 1 8.85	8	1	2.77 ~~2.28~~	11.87 ~~11.18~~						
9	9.7	9.6	9.65	1	0	7 2.80	12.35 ~~11.65~~						
10	9.8	9.8	9.80	0	0	2.68 ~~2.19~~	12.48 ~~11.99~~						
11	10.0	10.0	10.00	0	0	2.68 ~~2.16~~	12.66 ~~12.16~~						
12	n.s.												

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Wednesday, May 7, 1913

Series Plates MD ~~2657 - 2668~~ 2675 - 2686 Copied

Con. +0.06

MD 2679 98 K.

Scale M.	1st	1st		Curve Imagn.	Phis. comps. 1st	2nd	Curve Imagn.
1	1.5 1.7	1.5	1.70 0 0	. .	5.6 5.8	5.9	5.85 1 0 +0.22 6.07
2	4.6 4.8	2nd 4.5	4.45 2 1	+3.36 7.95	2nd 8.2	8.2	8.20 0 0 -0.13 8.07 8.33
3	6.1 6.3	6.1	6.20 1 1	3.04 9.24	4 9.2	9.4	9.40 0 0 -0.30 9.10 9.70
4	6.5 6.7	6.8	6.75 1 0	3.00 9.75	9.8	9.9	9.85 0 1 -0.35 9.50
5	7.0 7.2	7.1	7.15 0 1	2.95 10.10 ~~2.46 9.61~~			
6	2nd 7.7	7.8	7.75 1 0	2.89 10.64			
7	8.5	8.6	8.55 1 0	2.81 11.36			
8	9.0	9.1	9.05 0 1	2.77 11.82			
9	9.3	9.3	9.30 0 0	2.74 12.04			
10	9.8	9.8	9.80 0 0	2.68 12.48			

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Wednesday, May 7, 1913

Series Plates MD ~~2657 – 2668~~ 2675 – 2686

Sect. 31

MD 2680 Pole

Scale M	1st	1st		Bris. comps. 1st	2nd	
5	2.0 2.2	2.2 2.4 2.30	1 1	6.0 6.2	6.1	6.15 0 1
6	3.0 3.2	3.0 3.2 3.20	0 0	6.8 7.0	7.0	7.00 0 0
8	4.8 5.0	2nd 5.0 5.00	0 0	2nd 7.9	8.1	~~7.95~~ 8.00 1 1
9	5.5 5.7	5.4 5.56	1 2	9.0	9.0	9.00 0 0
10	5.8 6.0	5.7 5.75	2 1	9.2	9.2	9.20 0 0
11	6.0 6.2	6.1 6.15	0 1	9.8	9.8	9.80 0 0
12	6.3 6.5	6.5 6.50	0 0			
13	7.0 7.2	7.2 7.20	0 0			
14	2nd 7.7	7.7 7.70	0 0			
15	8.0	8.0 8.00	0 0			
16	8.1	8.2 8.15	1 0			
17	8.5	8.7 8.60	1 1			
18	9.1	9.2 9.15	1 0			
19	9.7	9.8 9.75	1 0			

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Wednesday, May 7, 1913

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Con. -.32

Md 2681 a3 20^h +75° Pris. comp.

Scale M.

	1st	2nd			Curve	Magn.	3rd/4th	2nd			Curve	Magn.
1	~~4.2~~ 3.8 4.0	4.0	4.00	0 0	+3.49	7.49	7.4	7.4	7.40	0 0	-0.02	7.38
2	3.9 4.1	4.1	4.10	0 0	3.45	7.55	7.6	7.5	7.55	0 1	-0.05	7.50
3	4.5 4.7	4.7	4.70	0 0	3.30	8.00	8.0	8.0	8.00	0 0	-0.11	7.89
4	4.4 4.6	4.4	4.50	1 1	3.35	7.85	7.9	7.6	7.75	1 2	-0.07	7.68
5	4.5 4.7	4.8	4.75	1 0	3.29	8.04	7.8	7.9	7.85	0 1	-0.10	7.75
6	5.8 6.0	5.7	5.85	2 1	3.10	8.85	9.0	9.0	9.00	0 0	-0.23	8.77
7	5.6 5.8	5.6	5.70	1 1	3.10	8.80	8.6	8.7	8.65	0 1	-0.20	8.45
8	6.0 6.2	6.1	6.15	0 1	3.05	9.28	9.3	9.4	9.35	1 0	-0.29	9.06
9	~~5.8~~ 6.2 6.4	6.2	6.30	1 1	3.04	9.34	9.4	9.5	9.45	0 1	-0.31	9.14
10	6.1 6.3	6.1	6.20	1 1	3.04	9.24	9.4	9.5	9.40	0 0	-0.30	9.10
11	6.1 6.3	6.3	6.30	0 0	3.04	9.34	9.5	9.5	9.50	0 0	-0.31	9.19
12	6.5 6.7	6.8	6.75	1 0	3.00	9.75						
13	6.7 6.9	6.9	6.90	0 0	2.98	9.88						
14	6.9 7.1	7.0	7.05	1 0	2.97	10.02						
15	~~2nd~~ 7.7	7.2	7.60	1 1	2.90	10.50						
16	7.9	7.9	7.90	0 0	2.87	10.77						
17	8.0	8.0	8.00	0 0	2.87	10.87						
18	8.1	8.1	8.10	0 0	2.85	10.95						
19	8.5	8.3	8.40	1 1	2.82	11.22						
20	8.6	8.5	8.55	0 1	2.80	11.35						
21	9.0	9.0	9.00	0 0	2.77	11.77						
22	9.2	9.1	9.15	0 1	2.75	11.90						
23	9.4	9.3	9.35	~~0 0~~ 0 1	2.74	12.09						
24	9.8	9.7	9.75	0 1	2.69	12.44						

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Wednesday, May 7, 1913

267.5 – 2686 Capuit

Series Plates MD ~~2657 – 2668~~

Con. +17

MD 2682 C4 7^h $+15^\circ$ Pris. comp.

Scale M.	1st	1st		Curve	Magn.	1st	2nd			Curve	Magn.
1	1.8 2.0	2.0 2.2	2.10	1 1	+4.25	6.35	6.0 6.2	6.2	6.20	0 0	+0.16	6.36
2	3.0 3.2	3.0 3.2	3.20	0 0	3.77	6.97	6.8 7.0	7.1	7.05	0 1	+0.01	7.06
3	3.5 3.7	3.4 3.6	3.65	1 0	3.60	7.25	2nd 7.0	7.1	7.05	0 1	+0.01	7.06
4	3.9 4.1	2nd 4.0	4.05	1 0	3.46	7.51	7.6	7.6	7.60	0 0	-0.06	7 7.54
5	4.8 5.0	4.8	4.90	1 1	3.25	8.15	8.2	8.2	8.20	0 0	-0.13	8.07
6	5.0 5.2	5.0	5.10	1 1	3.20	8.30	8.4	8.3	8.35	0 1	-0.16	8.19
7	5.2 5.4	5.2	5.30	1 1	3.16	8.46	8.8	8.7	8.75	0 1	-0.20	8.55
8	5.3 5.5	5.6	5.55	1 0	3.12	8.67	8.7	8.6	8.65	1 0	-0.19	8.46
9	6.0 6.2	6.0	6.10	1 1	3.06	9.16	9.2	9.3	9.25	0 1	-0.27	8.98
10	6.5 6.7	6.8	6.75	1 0	3.00	9.75	9.6	9.5	9.55	0 1	-0.32	9.23
11	6.6 6.8	6.9	6.85	0 1	2.99	9.84	9.8	9.8	9.80	0 0	-0.35	4 9.45
12	6.8 7.0	7.0	7.00	0 0	2.97	9.97	10.0	10.0	10.00	0 0	.	.
13	6.9 7.1	6.9	7.00	1 1	2.97	9.97						
14	2nd 7.4	7.5	7.45	0 1	2.91	10.36						
15	7.8	8.0	7.90	1 1	2.87	10.77						
16	8.0	7.8	7.90	1 1	2.87	10.77						
17	8.2	8.6	8.40	2 2	2.82	11.22						
18	8.8	8.8	8.80	0 0	2.78	11.58						
19	9.0	9.0	9.00	0 0	2.76	11.76						
20	9.3	9.3	9.30	0 0	2.74	12.04						
21	9.4	9.3	9.35	0 1	2.74	12.09						
22	9.5	9.6	9.55	1 0	2.71	12.26						

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Wednesday, May 7, 1913

cloud.

Series Plates MD 2675-2686

Con. -19

MD 2683 123 K Pris. comps.

Scale M.	1st		2nd			Curve	Magn.	2nd	2nd			Curve	Magn.
1	4.5	4.7	4.6	4.65	1.0	+3.30	7.95	8.0	8.0	8.00	0.0	-0.11	7.89
2	5.1	5.3	5.5	5.40	1.1	3.13	8.53	8.8	9.0	8.90	1.1	-0.23	8.67
3	6.6	6.8	6.8	6.80	0.0	2.99	9.79	9.9	9.8	9.85	0.1 (1.0)	-0.36	9.49
4	7.0	7.2	7.2	7.20	0.0	2.95	10.15						
5	2nd 7.8		8.1	7.95	2.1	2.86	10.81						
6	8.3		8.5	8.40	1.1	2.82	11.22						
7	8.6		8.7	8.65	0.1	2.80	11.45						
8	8.8		8.8	8.80	0.0	~~2.29~~ 2.78	11.58						
9	9.0		9.0	9.00	0.0	~~2.27~~ 2.76	11.76						
10	9.6		9.6	9.60	0.0	2.80 .7	12.30						

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1913phae.proj.1031M

Wednesday, May 7, 1913

Cloudy.

Series Plates MD 2675-2686

Con for

MD 2684 1 K

Scale M.	1st	1st		Curve	Magn.	Pris Comp. 1st	2nd		Curve	Magn.
1	2.8 3.0	2.6 2.8	2.90	1 1	+3.88	6.78	6.36 5	6.8	6.65 1 2	+0.09	6.74
2	6.5 6.7	2nd 6.7	6.70	0 0	3.00	9.70	2nd 9.0	9.1	9.05 0 1	-0.25	8.80
3	6.8 7.0	6.9	6.95	0 1	2.98	9.93					
4	7.0 7.2	7.2	7.20	0 0	2.95	10.15					
5	2nd 7.8	7.8	7.80	0 0	2.98	10.78					
6	8.2	8.0	8.10	1 1	2.85	10.95					
7	8.8	9.0	8.90	1 1	2.77	11.67					
8	9.4	9.5	9.45	0 1	2.73	12.18					
9	9.9	9.9	9.90	0 0	2.67	12.57					

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1913phae.proj.1031M

Wednesday, May 7, 1913

Series Plates MD 2675-2686 Objects

Com. + Ro

MD 2685 12 K Pris. comps.

Scale M.	1st		2nd			Curve	Magn.	2nd	2nd		Curve	Magn.
1	4.8	4.0	4.0	4.00	0 0	+3.49	7.49	7.5	7.4	7.45	1 0	−0.04	7.41
2	4.5	4.7	4.6	4.65	1 0	3.31	7.96	8.1	8.0	8.05	1 0	−0.12	7.93
3	6.0	6.2	6.0	6.10	1 1	3.06	9.16	9.1	9.2	9.15	1 0	−0.26	8.89
4	6.5	6.7	7.0	6.85	1 2	2.99	9.84						
5	8.2		8.0	8.10	1 1	2.85	10.95						
6	8.3		8.2	8.25	1 0	2.83	11.08						
7	8.8		8.8	8.80	0 0	2.88	11.58						
8	9.2		9.3	9.25	0 1	2.74	11.99						

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1913phae.proj.1031M

Wednesday, May 7, 1913

Series Plates MD 2675 - 2686

Scale M.	MD 2686 1st		Pole. 1st		See p. 31	Pris. comp. 1st		2nd		
5	1.8	2.0	1.9	2.1	2.05	0	1	6.0 6.2	6.2	6.20 0 0
6	2.8	3.0	3.0	3.2	3.10	1	1	6.8 7.0	7.0	7.00 0 0
8	4.8	5.0	2nd 5.0		5.00	0	0	2nd 8.0	8.2	8.10 1 1
9	5.2	5.4	5.5		5.45	0	1	8.8	8.8 9.0	8.80 0 0
10	6.0	6.2	6.0		6.10	1	1	9.1	9.2	9.15 1 0
11	6.3	6.5	6.4		6.45	1	0	9.8	9.6	9.70 1 1
12	6.5	6.7	6.8		6.75	1	0			
13	6.8	7.0	7.2		7.10	1	1			
14	2nd 7.5		7.8		7.65	1	2			
15	8.1		8.0		8.05	1	0			
16	8.2		8.2		8.20	0	0			
17	8.7		8.7		8.70	0	0			
18	9.0		9.0		9.00	0	0			
19	9.4		9.5		9.45	0	1			

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Saturday, May 10, 1913

Series MD Plates 2843 - 2848

MD 2843 Pole. Pris. comps.

Scale M.	1st	1st		MD 2848 A-47	Mean	Diff	1st	2nd		Mean	Diff.
5	2.8 3.0	2.7	2.9 2.95 0 1		2.75	2.85 10 10	+3.54	6.2 6.4	6.4	6.40 0 0	6.35 6.38 02 03 +0.01
6	3.7 3.9	3.7 2nd	3.9 3.90 0 0		3.80	3.85 05 05	3.13	7.0 7.2 2nd	7.3	7.25 0 1	7.25 7.25 00 00 -0.27
8	5.2 5.4	5.0	5.20 2 2		5.20	5.20 00 00	2.90	8.8	8.7	8.75 0 1	8.75 8.75 00 00 -0.65
9	6.0 6.2	6.0	6.10 1 1		5.95	6.02 08 07	2.68	9.6	9.4	9.60 1 1	9.40 9.45 05 05 -0.75
10	6.1 6.3	6.0	6.15 1 2		6.10	6.12 03 02	2.77	9.7	9.6	9.65 1 0	9.75 9.70 05 05 -0.81
11	6.7 6.9	7.0	6.95 1 0		6.95	6.95 00 00	2.47	10.0?	10.0?	10.00 0 0	10.00 10.00 00 00 -0.58
12	6.9 7.1 2nd	7.2	7.15 1 0		7.10	7.12 03 02	2.61				
13	7.9	7.8	7.85 1 0		7.80	7.82 03 02	2.35				
14	8.2	8.1	8.15 0 1		8.05	8.10 05 05	2.42				
15	8.6	8.4	8.50 1 1		8.50	8.50 00 00	2.44				
16	9.0	9.0	9.00 0 0		8.90	8.95 05 05	2.31				
17	9.2	9.0	9.10 1 1		9.05	9.08 02 03	2.41				
18	9.7	9.8	9.75 1 0		9.45	9.60 15 15	2.32				
19	9.9	10.0	9.95 1 0		10.00	9.98 03 02	2.30				

02 03
3 3
+.07 -.10

00 00
3 3
.00 .00

.02 03
6 6
.00 -.00

26 24
5 5
+.05 -.05

11 9
4 4
+.03 +.02

19 21
5 5
+.04 -.04

56 54
14 14
+.04 -.04

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Series MD Plates 2843 — 2848

Con. -.17

MD 2844 D 5 9h -15° Pris. comp.

Diff.	Scale M.	1st		2nd			Curve	Magn.	2nd	2nd			Curve	Magn.
+0.01	1	3.9	4.1	4.0	4.05	1 0	+3.14	7.19	7.8	7.9	7.85	0 1	-0.41	7.44
0.27	2	4.6	4.8	4.4	4.60	2 2	3.00	7.60	8.2	8.0	8.10	1 1	-0.48	7.62
0.65	3	4.7	4.9	4.5	4.70	2 2	2.99	7.69	8.2	8.0	8.10	1 1	-0.48	7.62
0.75	4	4.7	4.9	4.8	4.85	1 0	2.95	7.80	8.3	8.2	8.25	1 0	-0.51	7.74
0.81	5	5.3	5.5	5.2	5.35	1 2	2.85	8.20	9.3	9.2	9.25	1 0	-0.70	8.55
0.58	6	5.2	5.4	5.5	5.45	0 1	2.81	8.26	9.0	8.9	8.95	0 1	-0.67	8.28
	7	6.0	6.2	6.3	6.25	0 1	2.66	8.91	9.6	9.2	9.40	2 2	-0.72	8.68
	8	5.7	5.9	6.0	5.95	1 0	2.72	8.67	9.4	9.2	9.30	1 1	-0.71	8.59
	9	6.2	6.4	6.4	6.40	0 0	2.63	9.03	9.9	9.9	9.90	0 0	-0.76	9.14
	10	6.8	7.0	7.0	7.00	0 0	2.54	9.54						
	11	6.9	7.1	7.0	7.05	1 0	2.53	9.58						
	12	7.0	7.2	7.2	7.20	0 0	2.51	9.71						
	13	2nd 7.7		7.8	7.75	1 0	2.45	10.20						
	14	7.9		7.6	7.75	1 2	2.45	10.20						
	15	8.1		8.0	8.05	1 0	2.41	10.46						
	16	8.0		8.0	8.00	0 0	2.42	10.42						
	17	8.4		8.2	8.30	1 1	2.40	10.70						
	18	8.5		8.3	8.40	1 1	2.39	10.79						
	19	8.9		8.8	8.85	1 0	2.35	11.20						
	20	9.3		9.4	9.35	1 0	2.33	11.68						
	21	9.5		9.4	9.45	1 0	2.32	11.77						
	22	9.8		10.0	9.90	1 1	2.29	12.19						

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Saturday, May 10, 1913

Cloudy.

Series MD Plates 2843 – 2848

Con. –17

Scale M. MD 2845 125 K Bris. comp.

	1st	2nd		Curve	Magn.	2nd	2nd		Curve	Magn
1	6.3 6.5	6.5	6.50	00	+2.62	9.12	10.0	10.0	10.00	00 -0.76	9.24
2	7.0 7.2	7.2	7.20	00	2.51	9.71					
3	7.7 (2nd)	7.4	7.55	12	2.47	10.02					
4	8.0	7.9	7.95	01	2.43	10.38					
5	8.1	8.1	8.10	00	2.40	10.50					
6	8.4	8.4	8.40	00	2.39	10.79					
7	8.6	8.4	8.50	11	2.38	10.88					
8	9.0	9.0	9.00	00	2.35	11.35					
9	9.5	9.4	9.45	10	2.31	11.76					
10	10.0	10.0	10.00	00	2.29	12.29					

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Saturday, May 10, 1913

Coincides.

Series MD Plates 2843 - 2848

Con. +.06

Scale M MD 2846 100 K Pris. comp.

	1st		2nd		Curve	Magn.	2nd		2nd		Curve	Magn.
1	6.1	6.3	5.2	5.25	1 0	+2.87	8.12	9.0	9.0	9.00	0 0	−0.67	8.33
2	6.2	6.4	6.1	6.25	2 1	2.66	8.91	10.0	10.0	10.00	0 0	−0.73	9.27
3	6.1	6.3	6.0	6.15	1 2	2.69	8.84	9.6	9.5	9.55	0 1	−0.74	8.81
4	6.5	6.7	6.9	6.80	1 1	2.58	9.38						
5	7.0	7.2	7.3	7.25	0 1	2.51	9.76						
6	8.0	~~8.2~~	8.0	8.00	0 0	2.42	10.42						
7	8.6	~~8.8~~	8.5	8.55	0 1	2.38	10.93						
8	8.8	~~9.0~~	8.7	8.75	0 1	2.37	11.12						
9	9.4	~~9.6~~	9.4	9.40	0 0	2.32	11.72						
10	9.8	~~10.00~~	9.9	9.85	0 1	2.29	12.14						
11	10.0	~~10.~~	10.0	10.00	0 0	2.29	12.29						

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Saturday, May 10, 1913

Capids.

Series MD plates 2843 – 2848

Con. +17

MD 2847 6 5 9^h +15°

Pris. comps.

Scale M	1st	1st		Curve	Magn.	1st	2nd			Curve	Magn.
1	3.2 3.4	3.5 3.7	3.55	2 1	+3.29	6.84	7.0 7.2	7.2	7.20	0 0	−0.24	6.96
2	4.5 3 4.5	2nd 4.5	4.50	0 0	3.02	7.52	2nd 8.1	8.0	8.05	1 0	−0.47	7.58
3	4.5 4.7	4.4	4.55	1 2	3.01	7.56	8.0	8.0	8.00	0 0	−0.45	7.55
4	5.0 5.2	5.0	5.10	1 1	2.90	8.00	8.7	8.5	8.60	1 1	−0.60	8.00
5	5.8 6.0	5.8	5.90	1 1	2.73	8.63	9.4	9.4	9.40	0 0	−0.71	8.69
6	6.2 6.4	6.0	6.20	2 2	2.68	8.88	9.9	9.7	9.80	1 1	−0.75	9.05
7	6.0 6.2	6.0	6.10	1 1	2.69	8.79	9.8	9.7	9.75	0 1	−0.75	9.00
8	6.5 6.7	6.8	6.75	1 0	2.59	9.34						
9	6.8 7.0	7.0	7.00	0 0	2.54	9.54						
10	7.0 7.2	7.5	7.35	2 1	2.50	9.85						
11	7.0 7.2	7.1	7.15	0 1	2.52	9.67						
12	2nd 7.5	7.4	7.45	1 0	2.49	9.94						
13	7.9	7.8	7.85	1 0	2.44	10.29						
14	8.0	7.8	7.90	1 1	2.43	10.33						
15	8.5	8.2	8.35	1 2	2.40	10.75						
16	9.0	8.8	8.90	1 1	2.35	11.25						
17	9.1	9.0	9.05	1 0	2.34	11.39						
18	9.2	9.2	9.20	0 0	2.33	11.53						
19	9.5	9.4	9.45	1 0	2.31	11.76						
20	9.8	9.9	9.85	0 1	2.29	12.14						

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1913phae.proj.1031M

Saturday, May 10, 1913

Series Plates MD 2843 – 2848

Scale M.	MD 2848 1st	1st	Pole	See p. 42	Pris. comp. 1st	2nd
5	2.6 2.8	2.5 2.7	2.75	01	6.2 6.4	6.3 6.35 01
6	3.6 3.8	3.6 3.8	3.80	00	7.0 7.2 (2nd)	7.3 7.25 01
8	5.1 5.3	5.1 (2nd)	5.20	11	8.8	8.7 8.75 01
9	5.8 6.0	5.9	5.95	01	9.5	9.3 9.40 11
10	6.0 6.2	6.0	6.10	11	9.7	9.8 9.75 10
11	6.8 7.0	6.9	6.95	01	10.0	10.0 10.00 00
12	7.0 7.2 (2nd)	7.0	7.10	11		
13	7.8	7.8	7.80	00		
14	8.1	8.0	8.05	10		
15	8.5	8.5	8.50	00		
16	9.0	8.8	8.90	11		
17	9.1	9.0	9.05	10		
18	9.5	9.4	9.45	10		
19	10.0	10.0	10.00	00		
20						

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Friday, May 23, 1913

Series MD Plates 2717 — 2728

Seal M.

MD 2717 Pole. O.C.

	1st	1st	MD 2722 h.53	MD 2728 1.59	Mean	Diff.	1st	2nd		Mean	Diff
5	2.4 2.5 (6)	2.3 2.5	2.55	0 1	2.45	2.45	2.48	07 03 03	3.91	6.0 6.2	6.0	6.10 1 1 6.10 6.10 6.10	+8.2
6	3.2 3.4	3.2 3.4 2nd	3.40	0 0	3.40	3.40	3.40	00 00 00	3.58	6.8 7.0	7.0	7.05 0 0 7.05 7.00 7.02 02 03 12	-0.0
8	4.6 4.8	5.0 2nd	4.90	1 1	4.30	4.85	4.88	02 02 03	3.22 2nd	8.4	8.3	8.35 0 1 8.15 8.15 8.22 13 07 07	-0.1
9	5.2 5.4	5.5	5.45	0 1	5.25	5.30	5.33	12 08 03	3.37	9.0	9.0	9.00 0 0 8.95 8.95 8.97 03 02 02	-0.2
10	5.8 5.9 (6.0)	5.8	5.90	1 1	5.40	5.75	5.68	22 28 07	3.21	9.2	9.3	9.25 1 0 19.05 9.10 9.13 12 08 03	-0.2
11	6.2 6.3	6.5	6.45	0 1	6.25	6.10	6.27	18 02 17	3.15			9.80 . 9.80 . a.	-0.3
12	6.5 6.6 (6.7)	7.0	6.85	1 2	6.45	6.60	6.63	22 18 13	3.10			9.90 . 9.90 . a.	-0.2
13	7.0 7.2 2nd	7.4	7.30	1 1	7.00	7.00	7.15 (0 20) 15	10 10	3.07				
14	7.8	7.8	7.80	0 0	7.20	7.80	7.60	20 40 20	2.92				
15	8.0	8.1	8.05	0 1	8.00	8.00	8.02	03 02 02	2.92				
16	8.5	8.3	8.40	1 1	8.20	8.30	8.30	10 10 00	2.96				
17	9.0	8.9	8.95	0 1	8.85	8.70	8.83	12 02 13	2.66				
18	9.2	9.2	9.20	0 0	9.10	9.45	9.25	05 15 20	2.67				
19	9.7	9.7	9.70	0 0	9.75	9.65	9.70	00 05 05	2.58				
20	10.0	9.9	9.95	0 1	.	.	9.95 a	. .	2.64				

19/5

9/5 14/5 14/5

+.05 -.03 -.03

43/5 37/5 02/5

+.09 +.07 -.00

80/4 70/4 10/4

+.20 -.18 -.02

20/5 25/5 00/5

+.04 -.04 .00

18/5 20/5 -.04

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143/14 127/14 -12/14

+.10 -.09 -.09

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Friday, May 23, 1913

Series MD Plates 2717 – 2728 Cepheid.

Scale M. MD 2718 . 128 K P.C.

Diff.		1st	2nd		Curve	Magn.	2nd	2nd		Curve	Magn.
+0.29	1	4.1 4.3	4.3	4.30 0 0	E+3.44	7.74	8.1	8.1	8.10 0 0	−0.14	7.96
−0.04											
−0.12	2	4.5 4.7	4.8	4.75 ± 0	3.37	8.12	8.3	8.4	8.35 ± 0	−0.16	8.19
−0.27	3	4.6 4.8	5.0	4.90 ± 1	3.35	8.25	8.9	8.9	8.90 0 0	−0.23	8.67
−0.24	4	6.0 6.2	6.2	6.20 0 0	3.16	9.36	9.9	10.0	9.95 ± 0	−0.30	9.65
−0.38	5	6.5 6.7	6.8	6.75 ± 0	3.07	9.82					
−0.37	6	7.0 7.2 (2nd)	7.3	7.25 0 1	3.00	10.25					
	7	7.4	7.5	7.45 0 1	2.97	10.42					
	8	7.8	7.9	7.85 0 1	2.90	10.75					
	9	8.1	8.2	8.18 ± 0 0 1	2.85	11.00					
	10	8.8	8.9	8.85 0 1	2.72	11.57					
	11	9.5	9.3	9.40 ± 1	2.63	12.03					
	12	10.0	10.0	10.00 0 0	2.53	12.53					
	13										

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Friday, May 23, 1913.

Series MD 2717 – 2728 Copied

Att. +.22

Scale M. MD 2719 B5 $12^h + 45^\circ$ P.C.

	1st	1st		Curve	Imagn.	1st	2nd		Curve	Imag
1	3.0 3.2	2.9	3.1 3.15 0 1	+3.66	6.81	6.8 7.0	7.0	7.00 0 0	+0.01	7.0
2	3.0 3.2	3.0	3.2 3.20 0 0	3.65	6.85	6.8 7.0	7.0	7.00 0 0	+0.01	7.0 6.9
3	4.7 4.9	2nd 5.0	4.95 1 0	3.34	8.29	2nd 8.1	8.0	8.05 1 0	-0.12	7.9
4	5.0 5.2	5.0	5.10 1 1	3.31	8.41	8.4	8.2	8.30 1 1	-0.16	8.1
5	5.0 5.2	5.0	5.10 1 1	3.31	8.41	8.3	8.3	8.30 0 0	-0.16	8.1
6	5.0 5.2	5.0	5.10 1 1	3.31	8.41	8.5	8.5	8.50 0 0	-0.28	8.3
7	5.8 6.0 6.0	5.8	5.90 1 1	3.20	9.10	9.1	9.0	9.05 1 0	-0.24	8.81
8	6.0 6.2	5.9	6.05 2 1	3.19	9.24	9.3	9	9.25 2 1	-0.26	8.99
9	6.0 6.2	5.8	6.00 2 2	3.19	9.19	9.4	9.3	9.35 0 1	-0.26	9.09
10	6.2 6.4	6.2	6.30 1 1	3.14	9.44	9.8	9.7	9.75 0 1	-0.29	9 8.46
11	6.2 6.4	6.1	6.25 2 1	3.15	9.40	9.8	9.8	9.80 0 0	-0.29	9.51
12	6.6 6.8	7.0	6.90 1 1	3.05	9.95					
13	7.0 7.2	7.4	7.30 1 1	2.99	10.29					
14	2nd 7.6	7.7	7.65 0 1	2.92	10.57					
15	7.7	7.8	7.75 1 0	2.91	10.66					
16	7.9	7.9	7.90 0 0	2.89	10.79					
17a	7.8	7.9	7.85 0 1	2.90	10.75					
17b,c	7.8	7.9	7.85 0 1	2.90	10.75					
18	8.5	8.5	8.50 0 0	2.79	11.29					
19	9.2	9.1	9.15 0 1	2.69	11.84					
20	9.6	9.5	9.55 0 1	2.61	12.16					
21	9.5	9.4	9.45 1 0	2.62	12.07					
22	9.8	9.8	9.80 0 0	2.57	12.37					

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Series MD Plate 2717-2728

Scale M. MD 2720 104 K P.C.

Magn.		1st	2		Curve	Magn.	2nd	2nd			Magn.
7.01	1	4.8 5.0	4.9	4.95 0 1	+3.33	8.28	8.1	8.2	8.15 1 0	-0.14 5	8.00
~~6.9~~ 7.01	2	6.7 6.9	7.0	6.95 1 0	3.03	9.98					
7.93	3	2nd 7.5	7.5	7.50 0 0	2.96	10.46					
8.14	4	8.1	8.1	8.10 0 0	2.86	10.96					
8.14	5	8.2	8.2	8.20 0 0	2.83	11.03					
8.32	6	8.3	8.2	8.25 1 0	2.82	11.07					
8.81	7	8.8	8.7	8.75 0 1	2.74	11.49					
8.99	8	9.0	9.0	9.00 0 0	2.70	11.70					
9.09	9	9.1	9.2	9.15 1 0	2.69	11.79 84					
9 8.46	10	9.8	9.9	9.85 0 1	256	12.41					
9.51											

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Scale M. MD 2721 32 1K

	1st		2nd			Curve	Magn.	P.C. 2nd	2nd			Curve	Magn.
1	4.5	4.7	4.5	4.60	1.1	+3.39	7.99	8.2	8.2	8.20	0.0	-0.15	8.05
2	5.8	6.0	5.8	5.90	1.1	3.20	9.10	9.4	9.3	9.35	0.1	-0.26	9.09
3	7.0 2nd	7.2	7.3	7.25	1.0 0.1	3.00	10.25						
4	8.0		8.1	8.05	0.1	2.86	10.91						
5	8.9		8.6	8.75	1.2	2.74	11.49						
6	9.0		8.9	8.95	0.1	2.71	11.66						
7	9.8		9.7	9.75	0.1	2.58	12.33						

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Friday, May 23, 1913

Series MD 2717 – 2728

Scale M. MD 2722 Pole P.C.

	1st	1st	Sep. 48	1st	2nd
5	2.3 2.5	2.2 2.4	2.45 1 0	6.0 6.2	6.0 6.10 1 1
6	3.2 3.4	3.2 3.4	3.40 0 0	6.9 7.1	7.0 7.05 1 0
8	4.8 5.0	2nd 4.8	4.90 1 1	2nd 8.1	8.2 8.15 1 0
9	5.1 5.3	5.2	5.25 1 0	8.9	9.0 8.95 1 0
10	5.2 5.4	5.4	5.40 0 0	9.0	9.1 9.05 0 1
11	6.1 6.3	6.2	6.25 1 0	9.8	9.8 9.80 0 0
12	6.2 6.4	6.5	6.45 0 1	9.9	9.9 9.90 0 0
13	6.8 7.0	7.0	7.00 0 0		
14	7.0 7.2	7.2	7.20 0 0		
15	2nd 8.0	8.0	8.00 0 0		
16	8.2	8.2	8.20 0 0		
17	8.9	8.8	8.85 1 0		
18	9.1	9.1	9.10 0 0		
19	9.8	9.7	9.75 0 1		

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1913phae.proj.1031M

Friday, May 23, 1913

Series MD 2717 - 2728 Computer

Scale 1M. MD 2723 Obt. -.09 17 K P.6.

Des. Rev. Leg. rec MC 4449		1st at		2nd		Curve	Magn.	2nd	2nd		Curve	Magn.
1	1	5.0	5.2	5.3	5.25 0 1	+3.30	8.55	9.1	9.2	9.15 ±0	-0.25	8.90
2	2	6.2	6.4	6.4	6.40 0 0	3.11	9.51	10.0	10.0	10.00 0 0	-0.30	9.70
·	3	6.6	6.8	7.0	6.90 ±1	3.04	9.94					
3	4	7.0	7.2	7.2	7.20 0 0	3.00	10.20					
4	5	7.3 (2nd)		7.3	7.30 0 0	2.99	10.29					
5	6	7.8		7.7	7.75 0 ±1	2.91	10.66					
6	7	8.1		8.2	8.15 ±0 0 +1	2.86	10.96 (11.00)					
·	8	9.0		8.9	8.95 0 ±1	2.71	11.66					
8	9	9.3		9.3	9.30 0 0	2.66	11.96					
·	10	9.7		9.7	9.70 0 0	2.59	12.29					

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1913phae.proj.1031M

Friday, May 23, 1913

Series MD 2717 - 2728 Cobalt.

Scale M. MD 2724 [105 K] O.C.

	1st	1st		Curve	Magn.	1st	2nd		Curve	Magn.
1	3.7 3.9	3.8 (4.0)	3.95 1 0	+3.50	7.45	7.0 7.2	7.1	7.15 0 1	0.00	7.15
2	5.0 5.2	5.3 (5.5)	5.25 0 1	3.30	8.55	8.8	8.8	8.80 0 0	-0.21	8.59
3	6.0 6.2	6.1	6.15 0 1	3.17	9.32	9.3	9.3	9.30 0 0	-0.26	9.04
4	5.9 6.1	6.0	6.05 1 0	3.18	9.23	9.2	9.2	9.20 0 0	-0.25	8.95
5	6.2 6.4	6.6	6.50 1 1	3.10	9.60	9.6	9.6	9.60 0 0	-0.28	9.32
6	7.0 7.2	7.2	7.20 0 0	3.00	10.20					
7	8.2	8.2	8.20 0 0	2.83	11.03					
8	8.5	8.5	8.50 0 0	2.79	11.29					
9	8.9	8.9	8.90 0 0	2.72	11.62					
10	9.2	9.2	9.20 0 0	2.68	11.88					
11	9.9	9.9	9.90 0 0	2.55	12.45					

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Friday, May 23, 1913

Series MD 2717 - 2728 Copied.

Scale M

MD 2725 att. +.23 33K P.C.

	1st	2nd			Curve	Magn.	2nd	2nd			Curve	Magn.
1	4.1 4.3	4.1	4.20	1 1	+3.46	7.66	8.0	8.0	8.00	0 0	-0.12	7.88
2	6.0 6.2	6.0	6.10	1 1	3.17	9.27	9.8	9.9	9.85	0 2	-0.30	9.55
3	6.4 6.6	6.4	6.50	1 1	3.10	9.60						
4	7.0 7.2 (2nd)	7.4	7.30	1 1	2.99	10.29						
5	8.0 ~~8.2~~	8.0	8.00	0 0	2.88	10.88						
6	8.3 ~~8.5~~	8.2	8.25	~~0 1~~ 1 0	2.82	11.07						
7	9.4	9.3	9.35	0 1	2.65	12.00						
8	9.2	9.2	9.20	0 0	2.68	11.88						
9	9.9	9.9	9.90	0 0	2.56	12.46						

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Friday, May 23, 1913

Series MD 2717 - 2728 copied.

Scale M. MD 2726 58K P.B.

	1st		2nd		Curve Magn.	2nd	2nd		Curve Magn.
1	5.9 6.1	6.0	6.05	1 0	+3.18 9.23	9.2	9.3	9.25 0 1	-0.25 9.00
2	6.5 6.7	6.7	6.70	0 0	3.07 9.77				
3	7.0 7.2	7.1	7.15	0 1	3.01 10.16				
4	2nd 7.9	8.0	7.95	1 0	2.89 10.84				
5	8.3	8.2	8.25	1 0	2.82 11.07				
6	9.0	9.0	9.00	0 0	2.70 11.70				
7	9.3	9.2	9.25	0 1	2.66 11.91				
8	9.8	9.7	9.75	0 1	2.59 12.34				
9	M.S.								

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Friday, May 23, 1913.

Series MD 2717 - 2728 Copied.

Scale M. MD 2727 Alt. +17. 82 K P.C.

	1st	1st		Curve Magn.	2nd	2nd		Curve Magn.
1	3.4 3.6	3.5 3.7	3.65 0 1	+3.55 7.20	7.2	7.2	7.20 0 0 −0.01	7.19
2	6.0 6.2	2nd 6.0	6.10 1 1/2	3.17 9.27	9.6	9.5	9.55 0 1 −0.28	9.27
3	6.0 6.2	6.2	6.20 0 0	3.16 9.36	9.8	9.8	9.80 0 0 −0.29	9.51
4	6.9 7.1	7.0	7.05 1 0	3.01 10.06				
5	2nd 7.5	7.6	7.55 1 0	2.95 10.50				
6	8.1	8.0	8.05 1 0	2.86 10.91				
7	8.7	8.8	8.75 1 0	2.74 11.49				
8	9.2	9.2	9.20 0 0	2.68 11.88				
9	9.6	9.7	9.65 0 1	2.60 12.25				
10	10.0	10.0	10.00 0 0	2.54 12.54				

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1913phae.proj.1031M

Friday, May 23, 1913

Series MD 2717 - 2728

Scale M. MD 2728 broken Pole P.C.

	1st	1st		Sep. 48	1st	2nd
5	2.3 2.5	2.2 2.4	2.45	1 0	6.0 6.2	6.0 6.10 1 1
6	3.2 3.4	3.2 3.4	3.40	0 0	6.8 7.0	7.0 7.00 0 0
8	4.8 5.0	4.7 (2nd)	4.85	2 1	8.2 (2nd)	8.1 8.15 0 1
9	5.2 5.4	5.2	5.30	1 1	9.0	8.9 8.95 0 1
10	5.5 5.7	5.8	5.75	1 0	9.1	9.1 9.10 0 0
11	6.0 6.2	6.0	6.10	1 1	n.s.	
12	6.2 6.4	6.8	6.60	2 2		
13	6.8 7.0	7.0	7.00	0 0		
14	7.8 (2nd)	7.8	7.80	0 0		
15	8.0	8.0	8.00	0 0		
16	8.2	8.4	8.30	1 1		
17	8.7	8.7	8.70	0 0		
18	9.5	9.4	9.45	1 0		
19	9.6	9.7	9.65	0 1		

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779

Scale M.

	MD 2768 1st		1st	Pole P.65	P.71	Mean	Diff.	1st	P.6 2nd		Mean
5	2.7	2.9 2.8	2.6	2.85	10 2.45	2.75	2.68	17 23 07	3.71	6.5	6.7
6	3.6	3.8 3.4	3.7	3.85	01 3.50	3.80	3.72	13 22 08	3.76	7.4 2nd	7.6
8	5.3	5.5	2nd 5.4	5.45	10 4.95	5.10	5.17	28 22 01	2.93	9.0	9.0
9	6.1	6.3	6.1	6.20	11 5.80	5.95	5.98	22 18 03	2.72	9.8	9.7
10	6.1	6.3	6.2	6.25	10 6.10	6.15	6.17	08 07 02	2.72	9.8	9.8
11	6.7	6.9	7.0	6.95	10 6.95	7.05	6.98	03 03 01	2.44		
12	2nd 7.1		7.3	7.20	11 7.75	7.75	7.57	37 18 18	2.16		
13	7.8		7.8	7.80	00 7.90	7.85	7.85	05 05 00	2.32		
14	8.3		8.2	8.25	10 8.10	8.25	8.20	05 10 05	2.32		
15	9.0		8.8	8.90	11 8.80	8.65	8.78	12 02 13	2.16		
16	9.2		9.1	9.15	01 9.15	9.20	9.17	02 02 03	2.09		
17	9.7		9.7	9.70	00 9.70	9.60	9.67	03 03 01	1.82		

	2nd			Mean
6.7	6.70	00 6.40	6.90	
7.6	7.50	11 7.35	7.40	
9.0	9.00	00 9.00	8.95	
9.7	9.75	01 9.95	9.80	
9.8	9.80	00 10.00	9.95	

Mean

5	6.67	03	27 23	-0.28
6	7.42	08	07 02	-0.44
8	8.98	02	02 03	-0.88
9	9.83	08	12 03	-1.13
10	9.92	12	09 03	-1.03

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779 Cloud

Att. + ½

Scale M. MD 2769 104 K C.C.

	1st	2nd		Curve Imagn.	2nd	2nd		Curve Imagn.
1	4.9 5.1	5.0	5.05 1.0	+2.92 7.97	8.9	9.0	8.95 1.0	-0.88 8.07
2	7.0 2nd	7.1	7.15 0.1	2.40 9.55				
3	7.8	7.8	7.80 0.0	2.28 10.08				
4	8.8	8.7	8.75 0.1	2.18 10.86				
5	8.7	8.8	8.75 1.0	2.18 10.86				
6	8.8	8.8	8.80 0.0	2.10 10.90				
7	9.2	9.2	9.20 0.0	2.07 5 11.27 5				
8	9.6	9.6	9.60 0.0	2.01 11.61				

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Thursday, May 29, 1913

Series MD 2768-2779 Copied.

Alt. +.22

Scale M. MD 2770 32 Ks P.C.

	1st	1st		Curve	Imagn.	1st	2nd		Curve	Imagn.
1	2.8 3.0	2.9 3.1	3.05 .1	+3.55	6.68	6.2 6.4	6.4	6.40 .00	-0.11	6.29
2	3.8 4.0	3.8 2nd	4.00 .00	3.25	7.25	7.0 7.2 2nd	7.4	7.30 .1	-0.40	6.90
3	4.8 5.0	5.0	5.00 .00	2.93	7.93	8.5	8.4	8.45 .10	-0.73	7.72
4	4.9 5.1	5.0	5.05 .10	2.91	7.96	8.5	8.5	8.50 .00	-0.75	7.75
5	6.7 6.9	6.8	6.85 .10	2.46	9.31					
6	7.0 7.2 2nd	7.1	7.15 .1	2.40	9.55					
7	7.8	7.8	7.80 .00	2.28	10.08					
8	8.1	8.0	8.05 .10	2.07 22	10.12 27					
9	8.0	7.9	7.95 .1	2.24	10.19					
10	9.0	8.9	8.95 .1	2.08	11.03					
11	9.3	9.3	9.30 .00	2.04	11.34					
12	n.s.	n.s.								

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779 Cobrid.

Clt. -.18

Scale M. MD 2771 D 7 13h-15° P.C.

	1st	2nd	Curve	Imagn.	2nd	2nd	Curve	Imagn.
1	4.0 4.3	4.0	4.10 i1	+3.21 7.31	8.0	8.0	8.00 00	-0.60 7.40
2	4.2 4.4	4.2	4.30 i1	3.16 7.46	8.1	8.1	8.10 00	-0.64 7.46
3	4.8 5.0	4.9	4.95 01	2.94 7.89	8.7	8.6	8.65 10	-0.79 7.86
4	5.2 5.4	5.0	5.20 22	2.89 8.09	9.0	9.0	9.00 00	-0.89 8.11
5	5.0 5.2	5.0	5.10 11	2.90 8.00	8.8	8.8	8.80 00	-0.82 7.98
6	4.8 5.0	4.8	4.90 11	2.96 7.86	8.8	8.8	8.80 00	-0.82 7.98
7	5.8 6.0	5.7	5.85 21	2.68 8.53	9.2	9.1	9.15 01/10	-0.91 8.24
8	5.7 5.9	5.8	5.85 10	2.68 8.53	9.4	9.4	9.400	-0.99 8.41
9	5.9 6.1	5.9	6.00 11	2.65 8.65	9.7	9.7	9.700	-1.05 8.65
10	5.8 6.0	5.9	5.95 01	2.66 8.61	9.8	9.8	9.800	-1.08 8.72
11	6.0 6.2	6.0	6.10 11	2.63 8.73	10.0	10.0	10.00 00	-1.12 8.88
12	6.8 7.0	7.0	7.00 00	2.43 9.43				
13	6.9 7.1	7.4	7.30 12	2.38 9.63				
14	7.0 7.2 (2nd)	7.2	7.20 00	2.39 9.59				
15	7.8	7.7	7.75 01	2.29 10.04				
16	7.4	7.6	7.50 11	2.33 9.83				
17	8.0	8.0	8.00 00	2.24 10.24				
18	8.7	8.7	8.70 00	2.11 10.81				
19	8.9	8.9	8.90 00	2.09 10.99				
20	9.1	9.0	9.05 10	2.07 11.12				
21	9.3	9.4	9.35 10	2.03 11.38				
22	9.5	9.5	9.50 00	2.01 11.51				

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Thursday, May 29, 1913

Series MD 2768 - 2779

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Scale M. MD 2772 13h +15° 67 P.C.

	1st	1st		Curve	Magn.	1st	2nd		Curve	Magn.
1	2.8	3.0	3.00	+3.54	6.64	6.8	7.0	7.00	-0.30	6.70
2	3.8	4.0	4.00	3.25	7.25	8.0	7.9	7.95	-0.59	7.36
3	4.6	4.8	4.80	2.99	7.79	8.8	8.9	8.85	-0.84	8.01
4	4.8	4.9	4.95	2.95	7.90	8.7	8.9	8.80	-0.82	7.98
5	5.0	5.3	5.25	2.86	8.11	9.5	9.5	9.50	-1.00	8.50
6	5.8	6.0	6.00	2.65	8.65					
7	6.0	6.5	6.35	2.56	8.91					
8	6.8	6.9	6.95	2.44	9.39					
9	6.8	7.0	7.00	2.42	9.42					
10	7.0	7.2	7.20	2.39	9.59					
11	7.4	7.3	7.35	2.36	9.71					
12	7.8	7.8	7.80	2.28	10.08					
13	8.2	8.1	8.15	2.20	10.35					
14	8.2	8.2	8.20	2.20	10.40					
15	8.4	8.6	8.50	2.15	10.65					
16	8.7	8.8	8.75	2.10	10.85					
17	9.2	9.2	9.20	2.05	11.25					
18	9.4	9.5	9.45	2.02	11.47					
19	-									

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Thursday, May 29, 1913

Series MD 2768 - 2779

Scale M. MD 2773 Overexposed 30s Pole See P. 60 P. 61

	1st	1st		1st	2nd?
5	2.3 2.5	2.2	2.24 2.4 2.85 +2 10	6.2 6.4	6.4 6.40 00
6	3.3 3.5	3.3	3.50 00 3.40 +1	2nd 7.4	7.3 7.35 01
8	4.8 5.0	2nd 4.9	4.95 01	9.0	9.0 9.00 00
9	5.6 5.8	5.8	5.80 00	10.0	9.9 9.95 01
10	6.0 6.2	6.0	6.10 11	10.0	10.0 10.00 00
11	6.7 6.9	7.0	6.95 10		
12	2nd 7.8	7.7	7.75 01		
13	7.9	7.9	7.90 00		
14	8.1	8.1	8.10 00		
15	8.8	8.8	8.80 00		
16	9.2	9.1	9.15 01		
17	9.7	9.7	9.70 00		

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779 Cont'd.

Alt. -.28

Scale M. MD 2774 2K P.C.

	1st		2nd		Curve	Magn.	2nd		2nd		Curve	Magn.
1	5.9	6.1	6.0	6.05 10	+2.64	8.69	9.8	9.8	9.80 00	-1.08		8.72
2	6.0	6.1	6.0	6.10 11	2.63	8.73	9.9	10.0	9.95 10	-1.11		8.84
3	7.0	7.2 (2nd)	7.0	7.10 11	2.40	9.50						
4	7.2		7.2	7.20 00	2.39	9.59						
5	8.0		8.0	8.00 00	2.24	10.24						
6	9.0		9.0	9.00 00	2.08	11.08						
7	9.9		9.9	99.00	1.99	11.89						

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779 Cepheid

Plate - 17

Scale M. MD 2775 130 K P.C.

	1st		2nd		Curve	Magn.	2nd	2nd	Curve	Magn.
1	5.8	6.0	5.9	5.95	0.1	+8.66	8.61	9.8	9.9	9.85 0.1 -1.09 8.76
2	6.1	6.3	6.2	6.25	1.0	2.59	8.84			
3	6.9	7.1	7.0	7.05	1.0	2.41	9.46			
4	2nd 7.8		7.8	7.80	0.0	2.28	10.08			
5	8.0		7.9	7.95	0.1	2.25	10.20			
6	8.4		8.4	8.40	0.0	2.17	10.57			
7	9.2		9.2	9.20	0.0	2.05	11.25			
8	9.3		9.2	9.25	1.0	2.04	11.29			
9	9.0		8.9	8.95	0.1	2.09	11.04			
10	9.8		9.9	9.85	0.1	1.99	11.84			

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 – 2779

Objective.

Δt. +.17

Scale M. MD2776 82 K P.C.

	1st	1st		Curve	Magn.	2nd	2nd	Curve	Magn.
1	3.7 3.9	3.8 4.0	3.95 1.0	+3.27	7.22	7.7	7.8	7.75 1.0	-0.51	7.24
2	6.7 6.9	2nd 6.8	6.85 1.0	2.46	9.31					
3	6.4 6.6	6.7 6.5	6.65 0.1	2.50	9.15					
4	2nd 7.8	7.3	7.65 2.1	2.30	9.95					
5	8.0	8.0	8.00 0.0	2.24	10.24					
6	8.8	8.9	8.85 0.1	2.10	10.95					
7	9.0	9.0	9.00 0.0	2.07	11.07					
8	9.8	9.7	9.75 0.1	2.00	11.75					

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Thursday, May 29, 1913

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Scale M. MD 2777 106 K P.C.

	1st	2nd	Mean	Curve	Magn.	2nd	2nd		Curve	Magn.
1	5.35 5	5.6	5.55 10	+2.78	8.33	9.3	9.2	9.25 10	-0.95	8.30
2	6.2 6.4	6.2	6.30 11	2.56	8.86	10.0	10.0	10.00 00	-1.12	8.88
3	6.2 6.4	6.2	6.30 11	2.56	8.86					
4	7.0 7.2	7.3	7.25 01	2.38	9.63					
5	2nd 7.5	7.4	7.45 10	2.33	9.78					
6	8.2	8.2	8.20 00	2.20	10.40					
7	9.2	9.1	9.15 01	2.06	11.21					
8	9.3	9.2	9.25 10	2.04	11.29					
9	9.4	9.4	9.40 00	2.03	11.43					
10	10.0	10.0	10.00 00	1.99	11.99					

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1913phae.proj.1031M

Thursday, May 29, 1913

Series MD 2768 - 2779 Colored

Scale M. MD 2778 ~~B6~~ 34K 14ª 4h 6m +45° P.C.

	1st	2nd		Curve	Magn.		2nd	2nd		Curve	Magn.
						.54					.82
1	4.1 4.3	4.2	4.25 i0	+3.16	7.41		8.5	8.3 8.40	i1	-0.71	7.69
						.92					.14
2	4.6 4.8	4.8	4.80 00	2.99	7.79		8.9	8.8 8.85	i0	-0.84	8.01
						.71					901
3	5.8 6.0	5.8	5.90 11	2.68	8.58		10.0	10.0 10.000		-1.12	888
						9.60					
4	6.3 6.5	6.1	6.30 22	2.57	8.87						
	2nd					.48					
5	8.3	8.0	8.15 12	2.20	10.35						
						.53					
6	8.2	8.2	8.20 00	2.20	10.40						
						.60					
7	9.4	9.5	9.45 01	2.01	11.46						

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Thursday, May 29, 1913

Series MD 2768 – 2779

Scale M. MD 2779 Pole See P. 60. P. 6.

	1st	1st		P. 6. 1st	2nd
5	2.8 5 2.7	2.8 6 3.8	7.15 1.0	6.7 2nd 6.9	6.9 6.90 .0
6	3.6 3.8	3.6 3.8	3.80 .0	7.4 2nd	7.4 7.40 .0
8	5.0 5.2	2nd 5.0	5.10 1.1	8.9	9.0 8.95 1.0
9	5.8 6.0	5.9	5.95 0.1	9.8	9.8 9.80 .0
10	6.0 6.2	6.1	6.15 0.1	9.9	10.0 9.95 1.0
11	6.8 7.0	7.1	7.05 0.1		
12	2nd 7.7	7.8	7.75 1.0		
13	7.8	7.9	7.85 0.1		
14	8.2	8.3	8.25 0.1		
15	8.5	8.8	8.65 1.2		
16	9.2	9.2	9.20 .0		
17	9.6	9.6	9.60 .0		

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1913phae.proj.1031M

Monday, June 2, 1913

Series MD 2816 - 2821

Scale M.

	MD 2816 1st		1st		MD 2821 r.77	Mean.		Diff.	P.C. 1st	2nd		Mean
5	3.4	3.6	3.3 (3.5)	3.55 0 1	3.50	3.52	03 02	+2.87	7.0 (2nd 7.2)	7.0	7.10 1 1	7.10
6	4.4	4.6	4.5 (2nd)	4.55 0 1	4.35	4.48 15 15		2.53	8.2	8.1	8.15 0 1	8.05
8	6.1	6.3	6.1	6.20 1 1	5.90	6.05 15 15		2.05	9.6	9.7	9.65 0 1	9.20
9	6.7	6.9	6.9	6.90 0 0	6.80	6.85 05 05		1.85				
10	7.0 (2nd)	7.2	7.3	7.25 0 1	7.00	7.12 13 12		1.77				
11	7.9		7.8	7.85 1 0	7.35	7.60 25 25		1.82				
12	8.4		8.3	8.35 0 1	7.90	8.12 23 22		1.61				
13	8.8		8.8	8.80 0 0	8.20	8.50 30 30		1.67				
14	9.0		9.0	9.00 0 0	8.80	8.90 10 10		1.62				
15	9.2		9.3	9.25 0 1	9.00	9.12 13 12		1.82				
16	9.6		9.6	9.60 0 0	9.35	9.48 12 13		1.78				
17	9.9		10.0	9.95 1 0	9.80	9.88 07 08		1.61				
~~18~~	~~10.0~~											

Mean	Diff.
5 7.10 00 00	-0.71
6 8.10 05 00	-1.12
8 9.42 23 22	-1.32

28	27
3	3
+.09	-.09

3.3	3.2
4	4
+.08	-.08

91	89
4	4
+.23	+.22

42	43
4	4
+.10	-.11

Spread

166	164
12	12
+.14	-.14

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Monday, June 2, 1913

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Scale M. MD 2817 17 Ks P. C.

	2 att	2 nd	Curve Magn.		
1	7.8	7.7	7.75 .01	+1.76	9.51
2	7.8	7.8	7.80 .00	1.69 (14)	9.49 (54)
3	8.8	8.7	8.75 .01	1.69	10.44
4	9.0	9.0	9.00 .00	1.69	10.69
5	9.6	9.5	9.55 .01	1.69	11.24
6	9.7	9.7	9.70 .00	1.70	11.40
7	10.0	10.0	10.00 .00	1.71	11.71

no comp.

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1913phae.proj.1031M

Monday, June 2, 1913

Series MD 2816 - 2821 Cloudy

Alt. - 0.31

Scale M. MD 2818 120 K P.C.

	1st	2nd		Curve	Magn.	
1	6.8 7.0 2nd	7.0	7.00	00	+1.87	8.87 no comp.
2	7.7	7.7	7.70	00	1.76	9.46
3	8.2	8.2	8.20	00	1.71	9.91
4	9.2	9.2	9.20	00	1.69	10.89
5	9.6	9.5	9.55	01	1.69	11.24
6	9.8	9.8	9.80	00	1.70	11.50
7	9.9	9.9	9.90	00	1.71	11.61
8						

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Monday, June 2, 1913

Series MD 2816 - 2821 Copied

Scale M. MD 2819 72 K P.C.

	1st		2nd			Curve Magn.		2nd	2nd		Curve Magn.
1	4.0	4.2	4.0	4.10	1	+2.65	6.75	7.5	7.6	7.55 1 0 -0.88	6.68
2	2nd 7.9		8.0	7.95	1	0 1.73	9.68				
3	8.2		8.1	8.15	0	1 1.71	9.86				
4	8.4		8.4	8.40	0	0 1.70	10.10				
5	8.9		8.8	8.85	1	0 1.69	10.54				
6	9.4		9.3	9.35	0	1 1.69	11.04				
7	9.7		9.6	9.65	1	0 1.70	11.35				
8	9.8		9.9	9.85	0	1 1.70	11.55				

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1913phae.proj.1031M

Monday, June 2, 1913

Series MD 2816 - 2821 Cepheids.

Alt. −0.22

Scale M. MD 2820 121 K P.C.

	1st		2nd		Curve	Magn	2nd		2nd		Curve	Magn.
1	4.9	5.1	5.0	5.05	1 0	+2.35	7.40	8.6	8.5	8.55	0 1	-1.13	7.42
2	5.2	5.4	5.2	5.30	1 1	2.28	7.58	9.1	9.1	9.10	0 0	-1.27	7.83
3	6.2	6.4	6.1	6.25	2 1	2.02	8.27	10.0	10.0	10.00	0 0	-1.50	8.50
4	2nd 8.1		8.0	8.05	1 0	1.71	9.76						
5	8.6		8.6	8.60	0 0	1.70	10.30						
6	8.8		8.9	8.85	0 1	1.69	10.54						
7	9.3		9.4	9.35	1 0	1.69	11.04						
8	9.8		9.8	9.80	0 0	1.70	11.50						
9	10.0		10.0	10.00	0 0	1.71	11.71						

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1913phae.proj.1031M

Monday, June 2, 1913

Series MD 2816 – 2821

See p. 72

Scale M.	MD 2821			Pole		P.C.	
	1st	1st		1st		2nd	
5	3.4 3.6	3.2 (3.4)	3.50 1 1	7.0 (2nd)	7.2	7.0	7.10 1 1
6	4.2 4.4	4.3 (2nd)	4.35 0 1	8.0		8.1	8.05 0 1
8	5.8 6.0	5.8	5.90 1 1	9.2		9.2	9.20 0 0
9	6.6 6.8	6.8	6.80 0 0				
10	6.8 7.0	7.0	7.00 0 0				
11	7.4 (2nd)	7.3	7.35 0 1				
12	7.9	7.9	7.90 0 0				
13	8.2	8.2	8.20 0 0				
14	8.8	8.8	8.80 0 0				
15	9.0	9.0	9.00 0 0				
16	9.3	9.4	9.35 1 0				
17	9.8	9.8	9.80 0 0				

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1913phae.proj.1031M

Saturday, June 7, 1913

Series MD 2884 – 2895

Scale M.

	MD 2884			Pole						P.C.		
	1st	1st		MD 2889 4.83	MD 2894 4.89	Mean	Diff.	1st	2nd			
5	2.7 2.9	2.8 3.0	2.95 1 0	2.90	3.15	3.00	05 10 15	+3.39	6.9 7.1	2nd	6.9 7.00 11	7.10 7.00 6.90
6	3.9 4.1	4.0 2nd	4.05 1 0	4.00	4.10	4.05	00 05 05	2.93	7.9 ~~8.1~~		8.0 7.95 1 0	8.00 7.85
8	5.8 6.0	5.7	5.85 2 1	5.90	5.95	5.90	05 00 05	2.20	9.1 ~~9.3~~		9.1 9.10 0 0	9.35 9.30
9	6.3 6.5	6.3	6.40 1 1	6.40	6.65	6.48	08 08 17	2.22	10.0 ~~10.2~~		10.0 10.00 0 0	. .
10	6.5 6.7	6.6	6.65 1 0	6.65	6.80	6.70	05 05 10	2.19				
11	7.0 7.2	7.5	7.35 2 1	7.65	7.45	7.48	13 17 03	1.94				
12	2nd 7.8	7.8	7.80 0 0	7.90	7.80	7.83	03 07 03	1.90				
13	8.3	8.2	8.25 1 0	8.20	8.15	8.20	05 00 05	1.97				
14	8.6	8.5	8.55 0 1	8.15	8.80	8.70	15 05 10	1.82				
15	8.8	8.7	8.75 0 1	9.15	9.20	9.03	28 12 17	1.91				
16	9.3	9.4	9.35 1 0	9.30	9.70	9.45	10 15 25	1.81				
17	9.6	9.7	9.65 0 1	9.70	.	9.68	03 02 .	1.81				
18	10.0	9.9	9.95 0 1	.	.	9.95	a . .	1.97				
~~19~~												

	Mean	Diff.
5	7.03 03 07 03	-0.57
6	7.93 02 07 08	-0.97
8	9.25 15 10 05	-1.28
9	10.00 a . .	-1.39

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Series MD 2884 – 2895

Scale M. MD 2885 51K R.C.

	1st	2nd	1st	2nd	Curve	Magn.	1st	2nd	2nd
1	6.8 7.0	7.0	7.00 0 0		+2.05	9.05			
2	6.7 6.9	6.8	6.85 1 0		+2.08	8.93			
3	~~7.8~~	7.8			+1.95	9.75			
4		8.0			+1.93	9.93			
5		8.8			+1.88	10.68			
6		9.0			+1.87	10.87			
7		9.5			+1.86	11.36			
8		9.6			+1.86	11.46			
+30° 1518		7.8			+1.95	9.75			
α	3.2 3.4	~~1st~~	3.4 3.2	3.40 0 0	+3.22	6.62	7.2 7.0	~~1st~~ 7.0 7.2	7.00 0 0 – 0.62
β	5.1 5.3	5.5		5.40 1 1	~~+2.44~~ +2.80	7.84		9.0	9.0 9.00 0 0 – 1.14
γ	3.9 4.1	4.0		4.05 1 0	+2.95	7.00		8.2	8.1 8.15 0 1 – ~~1.25~~
δ	5.3 5.5	5.0		5.25 3 2	+2.49	7.74		8.8	8.8 8.80 0 0 – ~~1.72~~
ε	3.5 3.7		3.6 3.4	3.65 1 0	+2.61	6.26	7.0 7.2		7.2 – 0.72 = 6.48

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Series MD 2884 – 2895

Alt. +.06

Scale M. MD 2886 99 K P.6.

	1st		2nd			Curve	Magn.	2nd	2nd		Curve.
1	5.9	6.1	5.9	6.00	1	+2.25	8.25	9.6	9.5	9.55	0 1 – 1.22 8.33
2	6.8	7.0	6.8	6.90	1	+2.07	8.97				
3	6.8	7.0 (2nd)	7.0	7.00	00	+2.05	9.05				
4	7.8		7.8	7.80	00	+1.95	9.75				
5	7.8		7.8	7.80	00	+1.95	9.75				
6	9.0		9.0	9.00	00	+1.86	10.86				
7	10.0?		10.0?	10.00	00	+1.86	11.86?				

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Series MD 2884 – 2895

Att. +0.02

Scale M MD 2887 1 K P. C.

		1st	1st		Curve	Magn.		2nd	2nd	Curve	Magn.
8.33	1	3.6 3.8 2nd	3.5 3.7 2nd	3.75 01	+3.06	6.81		8.0	7.9	7.95 01 -0.96 2	6.99 7.03
	2	8.0	7.9	7.95 01	+1.93	9.88					
	3	7.9	7.9	7.90 00	+1.95	9.85					
	4	8.2	8.2	8.20 00	+1.91	10.11					
	5	9.0	9.0	9.00 00	+1.86	10.86					
	6	9.2	9.3	9.25 01	+1.86	11.11					
scratch	7	9.8	9.7	9.75 01	+1.86	11.61					

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Series MD 2884 - 2895

Alt. +0.16

Scale M. MD 2888 Plaueri $8^h\ 11^m + 12.^\circ 0$ P. 6.

		1st	1st		Curve	Magn.	1st	2nd		Curve	Magn.
	a	1.2 1.4	1.2 1.4	1.40	0 0		4.6 4.8	4.8	4.80	0 0	~~-0.95~~ ~~+2.64~~ ~~7.44~~
off plate	b	.					2nd				
	c	4.5 4.7	4.4	4.55	1 2	+2.74 7.29	8.0	8.1	8.05	0 1	-0.95 7.10 ~~+1.92~~ ~~9.97~~
	d	4.0 4.2	4.0	4.10	1 1	+2.92 7.02	7.8	7.8	7.80	0 0	-0.89 6.91 ~~+1.95~~ ~~9.75~~
	e	5.0 5.2	5.0	5.10	1 1	+2.54 7.64	9.0	9.0	9.00	0 0	-1.13 7.87 ~~+1.86~~ ~~10.86~~
	f	5.8 6.0	5.8	5.90	1 1	+2.28 8.18	9.2	9.2	9.20	0 0	-1.18 8.02 ~~+1.86~~ ~~11.06~~
	g	5.7 5.9	5.8	5.85	1 0	+2.31 8.16	9.1	9 0	9.05	1 0	-1.14 7.91 ~~+1.86~~ ~~10.91~~
	h	4.8 5.0	4.8	4.90	1 1	+2.61 7.51	8.7	8.7	8.70	0 0	-1.08 7.62 ~~+1.88~~ ~~10.58~~
	K	5.4 5.6	5.5	5.55	0 1	+2.39 7.94	9.0	9.0	9.00	0 0	-1.13 7.87 ~~+1.87~~ ~~10.87~~
	l	5.8 6.0	5.8	5.90	1 1	+2.28 8.18	9.8	9.7	9.75	0 1	-1.24 8.51 ~~+1.86~~ ~~10.61~~
		2nd									
	m	7.8	7.8	7.80	0 0	+1.95 9.75					
	n	7.8	7.9	7.85	0 1 m	+1.94 9.79					
	o	8.0	8.0	8.00	0 0	+1.94 9.94					
	p	8.0	8.1	8.05	0 1	+1.92 9.97					
	q	8.5	8.4	8.45	1 0	+1.90 10.35					
	r	9.4	9.4	9.40	0 0	+1.86 11.26					
	s	9.4	9.5	9.45	0 1	+1.86 11.31					
	var.	9.5	9.5	9.50	0 0	+1.86 11.36					

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Scale M MD 2889 Pole P.C.

Sep. 78

	1st	1st		Curve	Magn.	1st	2nd		Curve	Magn.
5	2.7 2.9	2.7 2.9	2.90 00	+3.44 +2.94	6.34	7.0 7.2	7.0	7.10 1 1	-0.65	6.45
6	3.8 4.0	4.0 2nd	4.00 00	+2.97	6.97	8.0 2nd	8.0	8.00 00	-0.97	7.03
8	5.8 6.0	5.8	5.90 1 1	+2.28	8.18	9.3	9.4	9.35 1 0	-1.20	8.15
9	6.3 6.5	6.3	6.40 1 1	+2.17	8.57					
10	6.5 6.7	6.6	6.65 1 0	+2.10	8.75					
11	7.6 2nd	7.7	7.65 0 1	+1.97	9.62					
12	7.9	7.9	7.90 0 0	+1.97	9.87					
13	8.2	8.2	8.20 0 0	+1.91	10.11					
14	8.8	8.7	8.75 0 1	+1.88	10.63					
15	9.1	9.2	9.15 1 0	+186	11.01					
16	9.3	9.3	9.30 0 0	+1.86	11.16					
17	9.7	9.7	9.70 0 0	+1.86	11.56					
~~18~~										
+9										

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Series MD 2884 - 2895

Alt. +.10

Scale M MD 2890 S Hydrae 8h 48m +3.4 P.C.,

	1st	1st			Curve	Magn.	2nd	2nd			Curve	Magn.
a	3.0 3.2	3.1 (3.3)	3.25	01	+3.28	6.53	7.3	7.2	7.25	10	-0.73 +2.01	6.52 6.65
b	4.0 4.2	4.1 (2nd)	4.15	01	+2.90	7.05	8.2	8.2	8.20	00	-1.00 +1.91	.98 7.28
c	4.2 4.4	4.2	4.30	11	+2.85	7.15	8.5	8.4	8.45	10	-1.04 +1.90	7.41
d	5.8 6.0	6.0	6.00	00	+2.25	8.25	9.8	9.7	9.75	01	-1.28 +1.86	.50 8.49
e	7.0 7.2	7.2	7.20	00	+2.02	9.22						
f	6.8 7.0 (2nd)	6.9	6.95	01	+2.06	9.01						
g	8.0	8.0	8.00	00	+1.93	9.93						
k	8.1	8.2	8.15	10	+1.92	10.07						
k	9.4	9.4	9.40	00	+1.86	11.26						
l	8.3	8.2	8.25	10	+1.90	10.15						
m	9.0	9.1	9.05	01	+1.86	10.91						
n	9.9	9.8	9.85	10	+1.86	11.71						
var.	7.2	7.1	7.15	01	+2.03	9.18						

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CDT +20

Scale M. MD 2891 12K P.B.

	1st	2nd		Curve	Magn.	2nd			Curve	Magn.
1	5.0 5.2	5.0	5.10	+2.53	7.63	8.8	8.7	8.75 0.1 -1.09		7.54
2	5.8 6.0	5.9	5.95 0.1	+2.26	8.21	9.5	9.5	9.50 0.0 -1.21		8.29
3	6.8 7.0	7.0	7.00 0.0	+2.06	9.06					
4	8.3 2nd	8.2	8.25 1.0	+1.90	10.15					
5	9.2	9.1	9.15 0.1	+1.86	11.01					
6	9.2	9.1	9.15 0.1	+1.86	11.01					
7	10.0	9.9	9.95 0.1	+1.86	11.81					

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Object Saturday, June 7, 1913

Series MD 2884 – 2895

C.T. +.17

Scale M. MD 2892 C5 9^h+15 P. 6.

	1st	1st		Curve	Magn.	2nd	2nd		Curve	Mag.
1	3.7 3.9	3.8 4.0	3.95	1 0	+2.99	6.94	7.6	7.5	7.55	0 1	-0.82	6.73
2	5.0 5.2	2nd 4.9	5.05	2 1	+2.55	7.60	8.8	8.7	8.75	0 1	~~-0.6~~	~~8.14~~
3	5.0 5.2	5.0	5.10	1 1	+2.54	7.64	8.7	8.8	8.75	1 0	~~-0.6~~	~~8.14~~
4	5.2 5.4	5.4	5.40	0 0	+2.44	7.84	9.0	9.1	9.05	0 1	~~-0.65~~	8.40
5	6.2 6.4	6.4	6.40	0 0	+2.16	8.56						
6	6.8 7.0	6.8	6.90	1 1	+2.07	8.97						
7	6.7 6.9	6.8	6.85	1 0	+2.08	8.93						
8	6.8 7.0	6.9	6.95	0 1	+2.06	9.01						
9	7.0 7.2	7.0	7.10	1 1	+2.04	9.14						
10	2nd 7.8	7.8	7.80	0 0	+1.95	9.75						
11	7.4	7.6	7.50	1 1	+1.98	9.48						
12	7.8	7.8	7.80	0 0	+1.95	9.75						
13	7.9	8.0	7.95	1 0	+1.93	9.88						
14	8.0	8.1	8.05	0 1	+1.93	9.98						
15	8.9	8.8	8.85	1 0	+1.87	10.72						
16	9.2	9.1	9.15	0 1	+1.86	11.01						
17	9.9	9.8	9.85	1 0	+1.86	11.71						
18	10.0	10.0	10.00	0 0	+1.86	11.86						

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Saturday, June 7, 1913

Comet Series MD 2884 - 2895

Alt. +.23

Scale M MD 2893 29 K P.C.

	1st	2nd		Curve	Magn.	2nd	Curve	Magn.
1	4.7 4.9	4.8	4.85	10	+2.62	7.47	8.5	8.6 8.55 10 -1.05 7.50
2	5.8 6.0 (2nd)	6.0	6.00	00	+2.25	8.25	9.8	9.9 9.85 01 -1.26 8.59
3	7.6 (1st)	7.7	7.65	01	+1.97	9.62		
4	7.0 7.2 (2nd)	7.2	7.20	00	+2.02	9.22		
5	8.4	8.3	8.35	01	+1.90	10.25		
6	8.9	8.8	8.85	10	+1.87	10.72		
7	9.0	9.0	9.00	00	+1.86	10.86		
8	9.9	9.9	9.90	00	+1.86	11.76		

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Saturday, June 7, 1913

Series MD 2884 - 2895

Scale M MD 2894 7 K P. C.

	1st	2nd		Curve	Magn.	
1	7.0 7.2	7.2	7.20	0 0 +2.02	9.22	no comps.
2	2nd 7.6	7.7	7.65	0 1 +1.97	9.62	
3	7.7	7.8	7.75	1 0 +1.96	9.71	
4	8.2	8.2	8.20	0 0 +1.92	10.12	
5	8.4	8.5	8.45	0 1 +1.90	10.35	
6	9.0	9.0	9.00	0 0 +1.86	10.86	
7	9.3	9.2	9.25	1 0 +1.86	11.11	
8	10.0	10.0	10.00	0 0 +1.86	11.86	

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Saturday, June 7, 1913

Series MD 2884 - 2895

See p. 78

Scale M. MD 2895 Pole P. C.

	1st	1st		1st	2nd
5	3.0 3.2	2.9 3.1	3.15 01	6.9 7.1	6.9 7.00 11
6	3.9 4.1	3.9 4.1	4.10 00	2-k 7.8	7.9 7.85 01
8	5.9 6.1	2nd 5.8	5.95 12	9.3	9.3 9.30 00
9	6.5 6.7	6.6	6.65 10		
10	6.6 6.8	6.8	6.80 00		
11	2nd 7.5	7.4	7.45 10		
12	7 8.8	7.8	7.80 00		
13	8.1	8.2	8.15 10		
14	8.8	8.8	8.80 00		
15	9.2	9.2	9.20 00		
16	9.7	9.7	9.70 00		

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Tuesday, June 17, 1913

Series MD 2896 – 2901 X

Scale M. MD 2896 Pole P. C. Sc

	se. 1	se. 1		MD 2901 mean		Diff	1st	2nd		
5	3.2 3.4	3.0 3.2 2nd	3.30 1 1	3.30	3.30 00 00	+3.09	7.0 7.2 2nd	7.1	7.05 1 5 5	7.05
6	4.1 4.3	4.0	4.05 1 2	4.35	4.28 5 10 10	2.78 3	7.9	8.0	7.95 1 0	7.95
8	5.7 5.9	5.8	5.85 1 0	5.95	5.90 85 05 05	2.25 0	9.1	9.0	9.05 1 0	9.95
9	6.3 6.5	6.6	6.45 1 2 0	6.85	6.70 65 15 15 30 20	2.05 0	10.0	10.0	10.00 00	
10	6.6 6.8 2nd	6.7	6.65 0 1	6.95	6.85 5 15 0 15 0	2.09 4				
11	7.6	7.7	7.65 0 1	7.70	7.68 03 02	1.74				
12	7.8	7.8	7.80 00	7.85	7.82 02 03	1.91			Mean Res. Diff.	
13	8.1	8.1	8.10 00	8.20	8.15 05 05	2.02		5	7.05 10 5 5	-0.71
14	8.8	8.7	8.75 0 1	8.55	8.65 10 10	1.87		6	7.95 00 00	-0.97
15	9.0	8.9	8.95 0 1	9.00	8.98 02 02	1.96		8	9.48 50 45 45	-1.40
16	9.4	9.3	9.35 0 1	9.45	9.40 05 05	1.86		9	10.00 a .	-1.30
17			.	9.75	9.75 . a	1.74				

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Tuesday, June 17, 1913

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Series MD 2896 - 2907

Scale M MD 2897 127 K P.C. no comp.

	se 1	se. 2		Curve	Magn.
1	7.0 7.2	7.1	7.15	0 1	+1.96	9.11
2	7.5	7.6	7.55	1 0	+1.93	9.48
3	8.8	8.7	8.75	0 1	+1.88	10.63
4	9.0	9.0	9.00	0 0	+1.87	10.87
5	9.3	9.3	9.30	0 0	+1.86	11.16
6	9.8	9.9	9.85	0 1	+1.85	11.70

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Series MD 2896 – 2901

Cor +.22

Scale M MD. 2898 56 K P.C.

	sc. 1		sc. 2			Curve	Magn.	2nd	2nd		Curve	Magn.
1	5.8	6.0	6.0	6.00	0.0	+2.21	8.21	9.8	9.7	9.75	0.1	-1.38 8.37
2	6.0	6.2	6.1	6.15	0.1	+2.18	8.33	9.8	9.8	9.80	0.0	-1.39 8.41
3	6.8	7.0	7.1	7.05	0.1	+1.97	9.02					
	2nd											
4	7.8		7.7	7.75	0.1	+1.91	9.66					
5	8.8		8.8	8.80	0.0	+1.88	10.68					
6	9.3		9.3	9.30	0.0	+1.87	11.17					
7	9.7		9.8	9.75	0.1	+1.86	11.61					
8	m.s.											

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collected Tuesday, June 17, 1913

Series MD 2896 - 2907

Clr. +17

Scale M MD 2899 80 K P.C.

	Mags	sec. 1		sec. 2		Curve	Magn.	2nd	2nd		Curve	Magn.
1	8.37	4.2	4.4	4.3	4.35	0 1	+2.70	7.05	8.5	8.3	8.40	1 1 -1.07 7.33
2	8.41	4.5	4.7	4.9	4.80	1 1	+2.56	7.36	8.7	8.6	8.65	1 0 -1.13 7.52
3		5.7	5.9	5.8	5.85	1 0	+2.26	8.11				
4		6.4	6.6	6.8	6.70	1 1	+2.05	8.75				
5		2nd 7.7		7.8	7.75	1 0	+1.92	9.67				
6		8.2		8.1	8.15	0 1	+1.90	10.05				
7		8.7		8.7	8.70	0 0	+1.88	10.58				
8		9.0		9.0	9.00	0 0	+1.87	10.87				
9		9.9		10.0	9.95	1 0	+1.85	11.8?				

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Tuesday, June 17, 1913

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Series MD 2896 – 2901 X

Scale M MD 2900 128 K P.C.

	1st	2nd			Curve	Magn.	2nd	2nd			Curve	Magn.
1	5.8	6.0	5.8	5.90	1	1	+2.24	8.14	9.7	9.6	9.65	1 0	-1.36	8.29
2	5.9	6.1	6.0	6.05	1	0	+2.20	8.25	9.8	9.8	9.80	0 0	-1.39	8.41
3	6.3	6.5	6.3	6.40	1	1	+2.08 (12)	8.48 (52)						
4	6.9	7.1	7.2	7.15	1	0	+1.96	9.11						
5	7.9 (2nd)		7.8	7.85	1	0	+1.91	9.76						
6	8.3		8.6	8.45	1	2	+1.89	10.34						
7	8.8		8.8	8.80	0	0	+1.88	10.68						
8	8.9		8.9	8.90	0	0	+1.88	10.78						
9	9.2		9.2	9.20	0	0	+1.87	11.07						
10	9.6		9.6	9.60	0	0	+1.86	11.46						

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Tuesday, June 17, 1913

Series MD 2896 – 2901 X

Scale M MD 2901 Pole P. C.

		1st	1st			1st	2nd		
image defects	5	3.2 3.4	3.0 3.2	3.30	1 1	6.9 7.1	7.0	7.05	1 0
	6	4.2 4.4	2nd 4.3	4.35	0 1	2nd 8.0	7.9	7.95	0 1
	8	5.9 6.1	5.8	5.95	1 2	10.0	9.9	9.95	0 1
	9	6.6 6.8	6.9	6.85	0 1				
	10	6.8 7.0	6.9	6.95	0 1				
	11	2nd 7.7	7.7	7.70	0 0				
	12	7.9	7.8	7.85	1 0				
	13	8.2	8.2	8.20	0 0				
	14	8.6	8.5	8.55	0 1				
	15	9.0	9.0	9.00	0 0				
	16	9.4	9.5	9.45	0 1				
	17	9.7	9.8	9.75	1 0				

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1913phae.proj.1031M

Tuesday, June 17, 1913

Series MD 2896 – 2907

Scale M MD 2902 Var. 130 El Virginis +6° 2664

	1st	2nd				P. C. 2nd	2nd	
a	4.2	4.4	4.2	4.30	1 1	8.0	8.1	8.05 0 1
b	5.0	5.2	5.2	5.20	0 0	9.0	8.9	8.95 0 1
c	4.9	5.1	5.0	5.05	1 0	8.9	8.8	8.85 1 0
d	5.8	6.0	6.0	6.00	0 0	9.6	9.6	9.60 0 0
e	6.0	6.2	6.1	6.15	0 1	10.0	10.0	10.00 0 0
f	6.6	6.8	6.5	6.65	2 1			
g	6.7	6.9	6.8	6.85	1 0			
h	7.0	7.2	7.3	7.25	0 1			
K	7.2 (2nd)		7.5	7.35	2 1			
l	8.2		8.2	8.20	0 0			
m	7.8		7.8	7.80	0 0			
n	8.0		8.0	8.00	0 0			
o	8.9		8.8	8.85	1 0			
p	9.0		9.0	9.00	0 0			
q	9.8		9.8	9.80	0 0			

var. n.s.

Unable to complete this series. Had better reject this plate.

J. C. M.

June 18, 1913

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1913phae.proj.1031M

Tuesday, June 17, 1913

Series MD 2896 – 2907

Scale M MD 2903

	1st	2nd
1	3.8	4.0
2	4.2	4.4
3	5.3	5.5
4	5.8	6.0
5		
6		
7		
8		

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1913phae.proj.1031M

Friday, June 20, 1913

Series MD 2901 – 2907

Scale M. MD 2901 Pole P. C.

		1st				MD 2907 P. 104	Mean		Diff	1st	2nd
Image defective	5	2.8 3.0	2.7	2.95	0 1	3.15	3.05	10 10	+3.34	6.8 7.0	6.7 6.85 2 1 7.10
	6	3.7 3.9	3.8	3.95	1 0	4.05	4.00	05 05	2.98	7.8	7.8 7.80 0 0 7.95
	8	5.6 5.8	5.7	5.75	0 1	5.95	5.85	10 10	2.25	10.0	9.9 9.95 0 1 9.20
	9	6.6 6.8	6.8	6.80	0 0	6.60	6.70	10 10	2.00		
	10	6.8 7.0	6.8	6.90	1 1	6.85	6.88	02 03	2.01		
	11	7.6	7.5	7.55	0 1	7.55	7.55	00 00	1.87		
	12	7.7	7.8	7.75	1 0	7.85	7.80	05 05	1.93		
	13	8.0	8.2	8.10	1 1	8.30	8.20	10 10	1.97		
	14	8.3	8.5	8.40	1 1	8.80	8.60	20 20	1.92		
	15	9.0	9.0	9.00	0 0	9.25	9.12	12 13	1.82		
	16	9.3	9.2	9.25	0 1	9.70	9.48	23 22	1.78		
	17	9.7	9.7	9.70	0 0	9.80	9.75	05 05	1.74		

	Mean			Diff.
5	6.98	13	12	−0.59
6	7.88	08	07	−0.90
8	9.82	13	12	−1.72

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1913phae.proj.1031M

Friday, June 20, 1913

Object Series MD 2901 – 2907

Scale M MD 2902 1308 +6° 2664 P. C.

Alt. corr. +.12

2 Virginis

	1st	2nd			Curve	Magn.	2nd			Curve	Magn.
a	4.0 4.2	4.1	4.15	0 1	+2.86	7.01	8.0	8.1	8.05	0 1	-1.00	7.05
b	5.0 5.2	5.0	5.10	1 1	2.53	7.63	8.8	8.9	8.85	0 1	-1.30	7.55
c	4.8 5.0	4.9	4.95	0 1	2.59	7.54	8.7	8.8	8.75	1 0	-1.27	7.48
d	5.7 5.9	5.8	5.85	1 0	2.30	8.15	9.8	9.7	9.75	0 1	-1.64	8.11
e	6.0 6.2	6.0	6.10	1 1	2.23	8.33	10.0	9.9	9.95	0 1	-1.71	8.24
f	6.5 6.7	6.7	6.70	0 0	2.07	8.77						
g	6.7 6.9	6.8	6.85	1 0	2.04	8.89						
h	7.0 7.2	7.4	7.30	1 1	1.97	9.27						
K	2nd 7.6	7.7	7.65	0 1	1.92	9.57						
l	8.0	8.0	8.00	0 0	1.89	9.89						
m	7.9	7.7	7.80	1 1	1.90	9.70						
n	8.2	8.1	8.15	0 1	1.88	10.03						
o	9.0	8.8	8.90	1 1	1.80	10.76						
p	8.9	8.9	8.90	0 0	1.80	10.76						
q	9.6	9.8	9.70	1 1	1.79	11.49						

var. n.s.

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Friday, June 20, 1913

Series MD 2901 - 2907

Alt. +.72

Scale M

MD 2903

32 Ks

P. to.

	1st	1st		Curve	Magn.	2nd	2nd		Curve	Magn.
1	3.7 3.9	3.8 4.0	3.95	1 0	+2.95	6.90	7.4	7.4	7.40	0 0 -0.78 6.62
2	3.9 4.1	4.0 2nd	4.05	1 0	2.90	6.95	8.0	8.0	8.00	0 0 -0.99 7.01
3	5.4 5.6	5.2	5.40	2 2	2.45	7.85	9.2	9.1	9.15	0 1 -1.42 7.73
4	5.7 5.9	5.8	5.85	1 0	2.30	8.15	9.3	9.3	9.30	0 0 -1.49 7.81
5	7.0 7.2	7.0	7.10	1 1	2.00	9.10				
6	2nd 7.6	7.8	7.70	1 1	1.91	9.61				
7	8.3	8.2	8.25	1 0	1.87	10.12				
8	8.7	8.6	8.65	1 0	1.83	10.48				
9	8.6	8.6	8.60	0 0	1.84	10.44				
10	9.2	9.2	9.20	0 0	1.80	11.00				
11	9.8	9.8	9.80	0 0	1.79	11.59				

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Series MD 2901 – 2907

Alt +.23

Scale M MD 2904 57 K P. C.

Magn.		1st	2nd		Curve Magn.		2nd	2nd	Curve Magn.
6.62	1	6.0 6.2	6.2	6.20 0 0	+2.20	8.40	10.0	10.0 10.00 0 0 -1.72	8.28
7.01	2	6.4 6.6	6.6	6.60 0 0	2.10	8.70			
7.73	3	6.9 7.1	7.1	7.10 0 0	2.00	9.10			
7.81	4	2nd 8.0	8.0	8.00 0 0	1.89	9.89			
	5	8.0	7.9	7.95 0 1	1.90	9.85			
Maybe wrong * see meas. diffs.	6	7.1	7.0	7.05 1 0	2.00	9.05 ← reject per J.C.M. July 1, '13.			
	7	9.2	9.1	9.15 0 1	1.80	10.95			
	8	9.7	9.6	9.65 1 0	1.79	11.44			
	(6)	8.8	8.7	8.75 0 1	1.82	10.57			

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Friday, June 20, 1913.

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Series MD 2901 – 2907

alt + in

Scale M

MD. 2905

81 K

P.C.

	1st	1st		Curve	Magn.	2nd	2nd		Curve	Magn.
		3.5		3.13	58					
1	3.2 3.4	3.3	3.45	0 1	+~~2.75~~	6.~~30~~	7.3	7.4	7.35	1 0 -0.74 6.61
2	5.2 5.4	5.4 (2nd)	5.40	0 0	2.44	7.84	9.2	9.3	9.25	0 1 -1.46 7.79
3	7.7 7.9	7.7	7.80	1 1	1.90	9.70				
4	8.7 (2nd) ~~8.9~~	8.7	8.70	0 0	1.82	10.52				
5	.									
6	9.4	9.5	9.45	0 1	1.79	11.24				
7	n.s.									

Not marked in orig. sig.

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1913phae.proj.1031M

Friday, June 20, 1913

Series MD 2901 – 2907

Wt. +.20

Scale M MD 2906 14 K P.C.

	2nd mag.	2nd mag.		Curve	Magn.	
1	7.5	7.5	7.50	0.0	+1.94	9.44 no comp.
2	7.8	7.7	7.75	0.1	1.91	9.66
3	8.0	8.0	8.00	0.0	1.89	9.89
4	8.4	8.3	8.35	0.1	1.86	10.21
5	8.9	8.7	8.80	1.1	1.81	10.61
6	9.7	9.7	9.70	0.0	1.79	11.49
7	10.0	10.0	10.00	0.0	1.78	11.78

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1913phae.proj.1031M

Friday, June 20, 1913

MD Series 2901 – 2907

See p. 98

Scale M.

	MD 2907 1st	1st			P. C. 9√ 1st	2nd		
5	2.9 3.1	3.0 (3.2)	3.15	1 0	7.0 (2nd) 7.2	7.0	7.10	1 1
6	3.8 4.0	3.9 (4.1)	4.05	0 1	7.9	8.0	7.95	1 0
8	5.8 6.0	5.9 (2nd)	5.95	0 1	9.7	9.7	9.70	0 0
9	6.6 6.8	6.4	6.60	2 2				
10	6.7 6.9	6.8	6.85	1 0				
11	7.6 (2nd)	7.5	7.55	0 1				
12	7.8	7.9	7.85	0 1				
13	8.3	8.3	8.30	0 0				
14	8.8	8.8	8.80	0 0				
15	9.2	9.3	9.25	0 1				
16	9.7	9.7	9.70	0 0				
19	9.8	9.8	9.80	0 0				

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1913phae.proj.1031M

Monday, June 23, 1913

MD Series 2921 – 2926

Scale M MD 2921 Pole D.C.

	1st	1st		MD 2926 p. 110	Mean		Diff.	1st	2nd		Mean	Diff
5	2.8 3.0	2.7 (2.9)	2.95	0 1	2.80	2.88	07 08	+3.51	6.6 6.8	6.8	6.80 0 0	6.75	6.88 (7) -0.39
6	3.7 3.9	3.6 (3.8)	3.85	1 0	3.85	3.85	00 00	3.13	7.7 (2nd)	7.8	7.75 1 0	7.65	7.70 (2) -0.72 05 05
8	5.3 5.5	5.2 (2nd)	5.35	1 2	5.90	5.62	27 28	2.48	8.6	8.8	8.70 1 1	9.10	8.90 -0.80 20 20
9	5.9 6.1	6.0	6.05	1 0	6.40	6.22	17 18	2.48	9.4	9.3	9.35 0 1	10.00	9.68 -0.98 33 32
10	6.5 6.3	6.2	6.25	1 0	6.90	6.58	33 32	2.31	9.6	9.7	9.65 0 1	.	9.65a -0.76
11	7.0 7.2	7.2	7.20	0 0	7.60	7.40	20 20	2.02					
12	7.7 (2nd)	7.6	7.65	1 0	7.70	7.68	03 02	2.05					
13	8.0	8.2	8.20	1 1	8.00	8.05	05 05	2.12					
14	8.5	8.4	8.45	1 0	8.50	8.48	03 02	2.04					
15	8.7	8.8	8.75	1 0	9.00	8.88	13 12	2.06					
16	9.2	9.0	9.10	1 1	9.45	9.28	18 17	1.98					
17	9.6	9.4	9.50	1 1	9.60	9.55	05 05	1.94					
18	9.8	9.9	9.85	0 1	10.00	9.92	07 08	2.00					

Bad streak across plate affecting 8, 9 + 15.

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1913phae.proj.1031M

Monday, June 23, 1913 (copied)

MD Series 2921 - 2926

Scale M MD 2922 124K P.C.

	1st	2nd				
1	6.6	6.8	6.8	6.80	00 + 2.25	9.05
2	8.2		8.2	8.20	00 2.04	10.24
3	8.5		8.4	8.45	10 2.02	10.47
4	6.9	7.1	7.0	7.05	10 2.20	9.25
5	9.2		9.2	9.20	00 2.00	11.20
6	9.3		9.3	9.30	00 2.00	11.30
7	9.8		9.8	9.80	00 1.98	11.78

No comp.

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Monday, June 23, 1913

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MD Series MD 2921 - 29~~22~~ 26

Scale M MD 2923 δ 110 P.C.

11 Canum +19°2042

	1st.	1st				1st	2nd			
a	3.2 3.4	3.5 (3.7)	3.55	2	1 + 3.33	6.78	7.0 7.2	7.1	7.15	0 1 -0.55 6.60
b	5.8 6.0	2nd 5.8	5.90	1	1	7.48	8.38	2nd 9.3	9.4	9.35 1 0 -0.86 8.49
c	5.9 6.1	5.8	5.95	1	2	7.47	8.42	9.5	9.4	9.45 1 0 -0.87 8.58
d	6.0 6.2	6.2	6.20	0	0	2.39	8.59	9.9	10.0	9.95 1 0 -0.89 9.06
e	6.9 7.1 2nd	7.0	7.05	1	0	2.30	9.25			
f	7.2	7.2	7.20	0	0	2.18	9.38			
g	8.1	8.0	8.05	1	0	2.06	10.11			
h	8.3	8.2	8.25	1	0	2.04	10.29			
K	8.2	8.2	8.20	0	0	2.04	10.24			
l	8.6	8.8	8.70	1	1	2.02	10.72			
m	8.7	8.3	8.50	2	2	2.02	10.52			
n	9.3	9.5	9.40	1	1	2.00	11.40			
o	9.1	9.2	9.15	1	0	2.00	11.15			
p	9.8	9.9	9.85	0	1	1.98	11.83			

var. n.s.

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1913phae.proj.1031M

Monday, June 23, 1913

MD Series MD 2921 – 2926 ~~32~~

Scale M. MD 2924 28K P.C.

	1st	2nd		curve	corr for alt. +.23	2nd	2nd	Corr for alt. +.23
1	6.2 6.4	6.3	6.35	0.1	2.35	8.70	10.0	10.0 10.00 00 -0.89
2	7.5 (2nd)	7.7	7.60	1.1	2.11	9.71		mags 9.11
3	7.7	7.5	7.60	1.1	2.11	9.71		
4	8.0	8.0	8.00	0.0	2.07	10.07		
5	8.0	8.1	8.05	0.1	2.06	10.11		
6	8.9	8.8	8.85	1.0	2.00	10.85		
7	8.8	8.7	8.75	0.1	2.01	10.86		
8	9.2	9.2	9.20	0.0	2.00	11.20		
9	n.s.							

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1913phae.proj.1031M

Monday, June 23,

MD Series MD 2921 - 2932 (26 copied.)

Scale M. 2925 D 5 9h - 15

	1st	2nd				P.C. 2nd	3rd			
1	4.2 4.4	4.2	4.30	1 1	2.96	7.26	8.1	8.10	0 0	-0.72 7.38
2	4.8 5.0	4.9	4.95	0 1	2.74	7.69	8.7	8.8	8.75	1 0 -0.79 7.96
3	4.9 6.2 5.1	4.9	5.00	1 1	2.71	7.71	8.6	8.4	8.50	1 1 -0.77 7.73
4	5.2 5.4	5.2	5.30	1 1	2.64	7.94	9.0	9.2	9.10	1 1 -0.85 8.25
5	5.9 6.1	6.0	6.05	1 0	2.44	8.49	9.6	9.8	9.70	1 1 -0.88 8.82
6	5.9 6.1	6.0	6.05	1 0	2.44	8.49	9.8	9.9	9.85	0 1 -0.89 8.96
7	6.3 6.5	6.5	6.50	0 0	2.31	8.81				
8	6.3 6.5	6.6	6.55	1 0	2.30	8.85				
9	6.8 7.0	6.8	6.90	1 1	2.23	9.13				
10	7.0 7.2	7.0	7.10	1 1	2.19	9.29				
11	7.0 7.2 2nd	7.2	7.20	0 0	2.18	9.38				
12	7.4	7.6	7.50	1 1	2.13	9.63				
13	8.0	8.0	8.00	0 0	2.07	10.07				
14	8.0	8.0	8.00	0 0	2.07	10.07				
15	8.7	8.8	8.75	1 0	2.01	10.76				
16	8.5	8.4	8.45	1 0	2.02	10.47				
17	8.7	8.8	8.75	1 0	2.01	10.76				
18	8.8	9.0	8.90	1 1	2.00	10.90				
19	9.0	9.0	9.00	0 0	2.00	11.00				
20	10.0	10.0	10.00	0 0	1.98	11.98				
21	9.8	9.9	9.85	0 1	1.98	11.83				

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1913phae.proj.1031M

Monday, June 23, 1913

MD Series 2921 – 29~~22~~26

Scale M

MD 2926

	1st	1st			
5	2.6 2.8	2.6 (2.8)	2.80	0 0	3.53
6	3.6 3.8	3.7 (3.9)	3.85	0 1	3.11
8	5.8 6.0	5.8 (2nd)	5.90	1 1	3.48
9	6.2 6.4	6.4	6.40	0 0	3.34
10	6.8 7.0	6.8	6.90	1 1	3.34
11	7.6 (2nd)	7.6	7.60	0 0	3.11
12	7.7	7.7	7.70	0 0	3.10
13	8.0	8.0	8.00	0 0	3.06
14	8.4	8.6	8.50	1 1	3.01
15	9.0	9.0	9.00	0 0	3.00
16	9.4	9.5	9.45	0 1	3.00
17	9.6	9.6	9.60	0 0	1.99
18	10.0	10.0	10.00	0 0	1.98

Pole

See p. 105

P.C.

1st	2nd			
6.6 (6.8)	6.7	6.75	0 1	
7.6 (2nd)	7.7	7.65	0 1	
9.0	9.2	9.10	1 1	
10.0	10.0	10.00	0 0	

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1913phae.proj.1031M

Wednesday, June 25, 1913

MD Series 2926 - 2932

Scale M.

	MD 2926 1st		1st			MD 2932 N.117	Mean		Diff.	Pole 1st		P.C. 2nd		
5	2.6	2.8	2.7	2.85	0 1	2.95	2.90	05 05	+3.49	6.6	6.8	6.6	6.70	1 1 6.85
6	3.6	3.8	3.6 (3.8 2nd)	3.80	0 0	3.90	3.85	05 05	3.13	7.6 (2nd)		7.5	7.55	0 1 7.65
8	5.7	5.9	5.7	5.80	1 1	5.70	5.75	05 05	2.35	9.2		9.3	9.25	01 9.05
9	6.3	6.5	6.4	6.45	1 0	6.10	6.28	17 18	2.42	9.9		9.8	9.85	1 0 9.55
10	6.5	6.7 (2nd)	6.6	6.65	1 0	6.30	6.48	17 18	2.41	10.0		10.0	10.00	0 0 9.95
11	7.6		7.5	7.55	0 1	7.10	7.32	23 22	2.10					
12	7.8		7.8	7.80	0 0	7.70	7.75	05 05	1.98					
13	8.1		8.0	8.05	1 0	8.00	8.02	03 02	2.15					
14	8.5		8.5	8.50	0 0	8.45	8.48	02 03	2.04					
15	8.7		8.9	8.80	1 1	8.75	8.78	02 03	2.16					
16	9.2		9.2	9.20	0 0	9.05	9.12	08 07	2.14					
17	9.5		9.5	9.50	0 0	9.35	9.42	08 07	2.07					
18	10.0		10.0	10.00	0 0	9.90	9.95	05 05	1.97					

	Mean		Diff
5	6.78	08 07	-0.39
6	7.60	05 05	-0.62
8	9.15	10 10	-1.05
9	9.70	15 15	-1.00
10	9.98	02 03	-1.09

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1913phae.proj.1031M

Wednesday, June 25, 1913

MD Series 2926 – 2932

corrected.

Scale M MD 2927 a 3 20h +75° P. b

	1st		2nd					2nd	2nd			
1	4.7	4.9	4.9	4.90	0 0	2.15	7.05	8.2	8.2	8.20	0 0	-0.13
2	4.8	5.0	5.0	5.00	0 0	2.66 .71	7.71	8.4	8.4	8.40	0 0	-0.57
3	5.2	5.4	5.2	5.30	1 1	2.64	7.94	8.9	8.7	8.80	1 1	-0.80 .92
4	5.0	5.2	5.0	5.10	1 1	2.69	7.79	8.8	8.9	8.85	0 1	-0.81 .94
5	5.1	5.3	5.1	5.20	1 1	2.67	7.85	8.8	8.9	8.85	0 1	-0.81 .94
6	6.2	6.4	6.6	6.50	1 1	2.31	8.81	10.0	10.0	10.00	0 0	-0.89 1.09
7	6.2	6.4	6.7	6.55	2 1	2.30	8.85	10.0	10.0	10.00	0 0	-0.89 1.09
8	6.8	7.0	7.2	7.10	1 1	2.19	9.29					
9	6.8	7.0	7.0	7.00	0 0	2.20	9.20					
10	6.8	7.0	7.0	7.00	0 0	2.20	9.20					
11	7.0	7.2	7.0	7.10	1 1	2.19	9.29					
12	2nd 7.7		7.7	7.70	0 0	2.18	9.89					
13	7.8		7.8	7.80	0 0	2.09 .11	9.89 .91					
14	8.1		8.2	8.15	1 0	2.05 .10	10.20 .5					
15	8.3		8.5	8.40	1 1	2.02 .9	10.42 .9					
16	8.8		8.6	8.70	1 1	2.07 .8	10.78					
17	8.7		8.8	8.75	1 0	2.08	10.86 .3					
18	9.2		9.0	9.10	1 1	2.08	11.18					
19	9.3		9.2	9.25	1 0	2.08	11.25 .33					
20	9.4		9.3	9.35	0 1	2.08	11.35 .43					
21	9.7		9.7	9.70	0 0	2.08 +.99	11.69 .78					
22	9.8		9.8	9.80	0 0	2.07 +.98	11.87					
23	10.0		10.0	10.00	0 0	2.07 +.98	12.07					

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Wednesday, June 25, 1913

MD Series 2926 - 2932

Scale M. MD 2928 V 119 K Leonis P.C.

	1st	2nd				
				9 46	+12.4	
a	7.0 7.2	7.2	7.20	00	9.18	9.38 no comp.
b	6.9 7.1 (2d)	7.1	7.10	00	9.19	9.29
c	8.1	8.0	8.05	10	~~9.06~~ 9.10	10.15
d	8.8	8.8	8.80	00	9.08	10.88
e	9.0	9.0	9.00	00	9.08	11.08
f	9.1	9.1	9.10	00	~~9.08~~	11.18
g	9.7	9.6	9.65	10	~~+99~~ 9.08	~~11.64~~ 11.73
h	n.s					

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Wednesday, June 25, 1913

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Series MD 2926 - 2932.

Scale M

MD 2929 126 K

	1st	2nd					
1	4.2	4.4	4.2	4.30	1 1	7.95	7.25
2	6.0	6.2	6.0	6.10	1 1	7.42	8.52
3	7.2 (2nd)		7.1	7.15	0 1	7.18	9.33
4	7.6		7.8	7.10	1 1	7.11	9.81
5	8.2		8.3	8.25	0 1	7.04	10.29
6	9.0		9.2	9.10	1 1	7.08	11.18
7	9.6		9.5	9.55	0 1	1.99	11.54
8	9.9		10.0	9.95	1 0	1.98	11.93

Corr. for alt. -.18

P. C.

2nd	2nd		Corr. for alt. -.18
8.2	8.2	8.20	0 0 -0.18
9.9	10.0	9.95	1 0 -1.84

Magn. 7.4 1

8.87

9.06

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Wednesday, June 25, 1913 Copied.

Series MD 2926 – 2932

Scale M MD 2930 102 K P.6.

	1st	1st		Corr. for alt. +.06	2nd	2nd	Corr. for alt. +.06
1	3.6 3.8	3.7 (3.9)	3.85 .01	3.11	6.96	7.6	7.5 7.55 .01	-0.62	6.93
2	4.8 5.0	5.0 (2nd)	5.00 .00	2.71	7.71	8.7	8.6 8.65 .10	-0.79	7.86
3	6.5 6.7	6.6	6.65 .10	2.28	8.93	10.0	10.0 10.00 .00	-0.89	9.11
4	6.7 6.9	7.0	6.95 .10	2.22	9.17				
5	7.0 7.2	7.0	7.10 .11	2.19	9.29				
6	8.0 (2nd)	8.2	8.10 .11	2.05	10.25				
7	8.4	8.3	8.35 .01	2.08	10.38				
8	9.0	9.0	9.00 .00	2.08	11.08				
9	9.8	9.9	9.85 .01	1.98	11.83				

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1913phae.proj.1031M

Wednesday, June 25, 1913

Series MD 2926 – 2932

Scale M

	MD 2931 1st	1st		D 6 11^h –	P 6, 2nd	2nd			
1	3.7 3.9	3.8 (4.0)	3.95 1 0	3.09	7.04	7.7	7.7	7.70 0 0	-0.65
2	4.0 4.2	4.1 (2nd)	4.15 0 1	3.02	7.17	7.9	7.9	7.90 0 0	-0.71
3	4.2 4.4	4.2	4.30 1 1	2.96	7.26	8.0	8.0	8.00 0 0	-0.73
4	4.5 4.7	4.8	4.75 1 0	2.87	7.58	8.1	8.1	8.10 0 0	-0.76
5	5.2 5.4	5.2	5.30 1 1	2.64	7.94	9.0	9.0	9.00 0 0	-0.96
6	5.3 5.5	5.4	5.45 1 0	2.59	8.04	9.0	9.1	9.05 0 1	-0.98
7	5.3 5.5	5.4	5.45 1 0	2.59	8.04	9.1	9.2	9.15 1 0	-0.99
8	5.8 6.0	5.8	5.90 1 1	2.48	8.38	9.6	9.4	9.50 1 1	-1.04
9	5.7 5.9	5.8	5.85 1 0	2.49	8.34	9.8	9.8	9.80 0 0	-1.01
10	6.0 6.2	6.1	6.15 0 1	2.41	8.56	9.9	10.0	9.95 1 0	-1.08
11	6.7 6.9	6.8	6.85 1 0	2.24	9.09				
W.S. 12 (15a)	~~7.0 7.3~~ 7.2	7.2	7.20 0 0	2.18	9.38				
13	6.9 7.1	7.0	7.05 1 0	2.19	9.24				
14	7.0 7.2	7.0	7.10 1 1	2.19	9.29				
15	7.1 (2nd)	7.1	7.10 0 0	2.19	9.29				
16	7.6	7.8	7.70 1 1	2.11	9.81				
17	7.9	7.8	7.85 1 0	2.09	9.94				
18	8.2	8.2	8.20 0 0	2.04	10.24				
19	8.7	8.8	8.75 1 0	2.08	10.76				
20	8.7	8.5	8.60 1 1	2.91	10.61	2.08	10.68		
21	8.9	9.0	8.95 1 0	2.01	10.96	2.08	11.03		
22	9.4	9.4	9.40 0 0	2.00	11.40	2.08	11.48		
23	9.9	9.8	9.85 1 0	1.98	11.83	2.08	11.93		
24	9.6	9.8	9.70 1 1	1.99	11.69	2.08	11.78		
25	10.0	9.9	9.95 0 1	1.98	11.93	2.08	12.03		
26	9.5	9.6	9.55 1 0	1.99	11.54	2.08	11.63		
27	10.0	10.0	10.00 0 0	1.98	11.98	2.08	12.08		

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Wednesday, June 25, 1913.

Series MD 2926 - 2932

Scale M		MD 2932 1st	1st		Pole sup. III	P.C. 1st	2nd	
7.05	5	2.7 2.9	2.8 (3.0)	2.95 1 0		6.7 6.9	6.8	6.85 1 0
7.18	6	3.7 3.9	3.7 (3.9)	3.90 0 0		7.7 (2nd)	7.6	7.65 1 0
7.27	8	5.4 5.6	5.8 (2nd)	5.70 1 1		9.0	9.1	9.05 0 1
7.34	9	6.0 6.2	6.0	6.10 1 1		9.6	9.5	9.55 0 1
8.04	10	6.2 6.4	6.2	6.30 1 1		10.0	9.9	9.95 0 1
8.07	11	7.0 7.2	7.0	7.10 1 1				
8.16	12	7.7 (2nd)	7.7	7.70 0 0				
8.46	13	8.0	8.0	8.00 0 0				
8.73	14	8.5	8.4	8.45 1 0				
8.87	15	8.7	8.8	8.75 1 0				
	16	9.0	9.1	9.05 0 1				
	17	9.3	9.4	9.35 1 0				
	18	9.9	9.9	9.90 0 0				

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1913phae.proj.1031M

Thursday June 26, 1913.

Series MD 2933 - 2938 ~~44~~

Scale M

	MD 2933				Pole				P.C.				
	1st	1st			MD 2937 p. 123	Mean		Diff.	1st	2nd			
5	3.1 3.3	3.2 3.0	3.25	1 0	3.00	3.12	13	12	+3.27	6.9 7.1	7.1	7.10	0 0 7.00
6	4.0 4.2	2nd 4.1	4.15	0 1	4.00	4.08	07	08	2.90	2nd 8.0	7.9	7.95	0 1 7.85
8	5.9 6.1	5.9	6.00	1 1	5.90	5.95	05	05	2.15	9.8	9.7	9.75	0 1 9.75
9	6.7 6.9	6.7	6.80	1 1	6.65	6.72	08	07	1.98	10.0	10.0	10.00	0 0 .
10	6.8 7.0	7.0	7.00	0 0	7.00	7.00	00	00	1.89				
11	2nd 7.7	7.7	7.70	0 0	7.70	7.70	00	00	1.72				
12	8.0	7.9	7.95	0 1	8.00	7.98	03	02	1.75				
13	8.6	8.5	8.55	0 1	8.25	8.40	15	15	1.77				
14	8.8	8.9	8.85	0 1	8.95	8.90	05	05	1.62				
15	9.2	9.2	9.20	0 0	9.20	9.20	00	00	1.74				
16	9.6	9.6	9.60	0 0	9.45	9.52	08	07	1.74				
17	9.9	10.0	9.95	1 0	9.75	9.85	10	10	1.64				

	Mean			Diff.
5	7.05	05	05	-0.66
6	7.90	05	05	-0.92
8	9.75	00	00	-1.65
9	10.00	a	.	-1.30

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1913phae.proj.1031M

Thursday, June 26, 1913

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Series MD 2933 – 2938 ~~44~~

Scale M. MD 2934 128K P.C.

	1st	2nd			curve.				2nd	2nd	
1	6.0 6.2	6.0	6.10	1 1	3.70	+2.41	8.51	2.11	8.21	10.0	10.0 10.00 0 0
2	6.1 6.3	6.1	6.20	1 1	4.00	2.39	8.59	2.08	8.28		
3	6.2 6.4	6.5	6.45	0 1	5.20	2.31	8.76	2.02	8.47		
4	7.5 (2nd)	7.6	7.55	1 0	6.65	2.24	9.69	1.80	9.35		
5	8.0	7.8	7.90	1 1	7.00	2.11	10.01	1.74	9.64		
6	8.8	8.7	8.75	0 1	7.70	2.08	10.83	1.70	10.45		
7	8.8	8.8	8.80	0 0	8.00	2.08	10.88	1.70	10.50		
8	8.9	8.9	8.90	0 0		2.08	10.98	1.70	10.60		
9	9.3	9.2	9.25	1 0		2.08	11.33	1.70	10.95		
10	m.s.										

comp. platt. -.18 | comp. platt. -.18

1.54 − ~~1.09~~ 8.46 ~~8.71~~

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1913phae.proj.1031M

Thursday, June 26, 1913

Series MD 2933 - 2938 ~~2944~~

Scale M. MD 2935 B5 $12^h +45^\circ$ P. 6.

	1st	2nd						2nd		2nd	Corr for alt: +.22
1	3.8	4.0	4.0	4.00	0.0	3.06	7.01	2.91	6.91	7.9	7.8	7.86	1.0	-0.94 -0.70
2	4.0	4.2	4.1	4.15	0 1	3.02	7.18	2.85	7.00	8.1	8.1	8.10	0.0	-1.03 -0.76
3	5.6	5.8	6.0	5.90	1 1	3.48	8.35	2.17	8.07	9.5	9.4	9.45	1.0	-1.41 -1.03
4	5.8	6.0	6.0	6.00	0.0	3.44	8.44	3.14	8.14	9.8	9.9	9.85	0 1	-1.51 -1.08
5	6.0	6.2	6.0	6.10	1 1	3.41	8.51	3.11	8.21	9.9	10.0	9.95	1 0	-1.52 -1.08
6	6.0	6.2	6.1	6.15	0 1	3.40	8.55	3.10	8.25	10.0	10.0	10.00	0.0	-1.54 -1.08
7	6.8	7.0	7.0	7.00	0.0	3.30	9.30	1.88	8.88					
8	6.8	7.0	7.0	7.00	0.0	3.30	9.30	1.88	8.88					
9	6.9	7.1	7.1	7.10	0.0	3.19	9.29	1.85	8.95					
10	7.7 (2nd)		7.6	7.65	1 0	3.12	9.77	1.78	9.43					
11	7.2		7.1	7.15	0 1	3.18	9.33	1.84	8.99					
12	8.2		8.2	8.20	0.0	3.10	10.30	1.71	9.91					
13	8.8		8.7	8.75	0 1	3.08	10.83	1.70	10.45					
14	9.0		8.9	8.95	0 1	3.08	11.03	1.70	10.65					
15	8.9		8.8	8.85	1 0	3.08	10.93	1.70	10.55					
16	8.9		9.0	8.95	1 0	3.08	11.03	1.70	10.65					
17a	8.7		8.8	8.75	1 0	3.08	10.83	1.70	10.45					
17b.c	9.2		9.0	9.10	1 1	3.08	11.18	1.70	10.80					
18	9.8		9.7	9.75	0 1	3.08	11.83	1.70	11.45					
19	10.0		10.0	10.00	0.0	3.08	12.08	1.70	11.70					

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Thursday, June 26, 1913

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Series MD 2933 - 29~~44~~ 38

Scale M MD 2936 32 Ks P. 6.

	1st	1st				2nd	2nd		
		3.4							curve mag.
1	3.2 3.4	3.2 2nd	3.40	0 0	3.18	6.58	7.4	7.40	0 0 -0.18	6.62
2	3.9 4.1	4.0	4.05	1 0	3.89	6.94	8.0	8.00	0 0 -1.00	7.00
3	5.2 5.4	5.3	5.35	0 1	3.38	7.73	9.0	8.95	0 1 +1.29	7.66
4	5.6 5.8	5.6	5.70	1 1	3.74	7.94	9.3	9.4	9.35	1 0 -1.39	7.96
5	7.0 7.2	7.4	7.30	1 1	1.83	9.13	n.s.			
6	7.8 2nd	7.7	7.75	0 1	1.77	9.52				
7	8.1	8.1	8.10	0 0	1.72	9.82				
8	8.7	8.7	8.70	0 0	1.70	10.40				
9	8.9	8.8	8.85	1 0	1.70	10.55				
10	9.3	9.3	9.50	0 0	1.70	11.00				
11	9.6	9.7	9.65	0 1	1.70	11.35				
12	n.s.									

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Thursday, June 26, 1913

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MD Series 2933 - 2938 ~~47~~

Scale M

	MD 2937 1st	MD 2937 2nd			57 K Corr. for alt. +.22	P.C. 2nd	P.C. 2nd Corr. for alt +.22
1	6.0 6.2	6.2	6.20	0 0	2.19 8.39	10.0	10.0 10.00 00 -1.55 8.45
2	6.5 6.7	6.8	6.75	1 0	1.94 8.69		
3	7.4 2nd	7.3	7.35	0 1	1.81 9.16		
4	8.0	8.0	8.00	0 0	1.73 9.73		
5	8.0	7.9	7.95	0 1	1.74 9.69		
6	8.7	8.9	8.80	1 1	1.70 10.50		
7	9.2	9.2	9.20	0 0	1.70 10.90		
W.S. 8	~~9.0~~ 10.0?	10.0	10.00	0 0	1.70 11.70?		
9	n.s.						

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1913phaee.proj-1003M

Thursday, June 26, 1913

MD Series 2933 – 2938

Scale M. MD 2937

	1st	1st		Pole Sep. 118	1st	2nd
5	2.8 3.0	2.8	3.00 0 0		6.8 7.0 (2nd)	7.0 7.00 0 0
6	3.8 4.0	4.0 (2nd)	4.00 0 0		7.8	7.9 7.85 0 1
8	5.8 6.0	5.8	5.90 1 1		9.7	9.8 9.75 1 0
9	6.5 6.7	6.6	6.65 1 0			
10	6.8 7.0 (2nd)	7.0	7.00 0 0			
11	7.7	7.7	7.70 0 0			
12	8.0	8.0	8.00 0 0			
13	8.2	8.3	8.25 0 1			
14	9.0	8.9	8.95 0 1			
15	9.2	9.2	9.20 0 0			
16	9.4	9.5	9.45 0 1			
17	9.7	9.8	9.75 1 0			
18	m.s.					

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1913phae.proj.1031M

Friday, June 27, 1913

Series MD 2938 - 2944

Scale M

	MD 2938 *		Pole	O.C.	
	1st	1st		1st	2nd
		2.9		7.1	
5	2.8 3.0	2.7		6.9	
		2nd		2nd	
6	3.8 4.0	4.0		7.7	
8	5.8 6.0	5.9		9.4	
9	6.5 6.7	6.8			
10	6.7 6.9	6.9			
	2nd				
11	7.7	7.6			
12	8.0	8.0			
13	8.5	8.6			
14	8.8	8.9			
15	9.1	9.0			
16	9.5	9.4			
17	9.7	9.8			
18	m.s.	m.s.			
19					

* reject.

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1913phae.proj.1031M

Friday, October 17, 1913

Series MD 2872 - 2883

Omitting Kapteyn Regions.

Scale M	MD 2872 1st	1st		MD 2877 P. 128	MD 2883 P. 132	Pole Mean	Diff.	P.C. 1st	P.C. 2nd
5	3,2 3,4	3,0	3.2 3.30 1 1	2.95	3.45	3.23 07 28 22	+316	6.4 6.6	6.7 6.65 01
6	3.8 4.9 4.0	4.0	2nd 4.00 00	4.30	4.15	4.15 15 15 00	2.83	7.8	7.7 7.75
8	5.2 5.8 5.4	5.3	5.35 01	5.35	5.85	5.50 17 15 33	2.58	9.0	9.1 9.05 01
9	6.0 6.2	6.0	6.10 1 1	6.10	6.75	6.32 22 22 43	2.38		see below.
10	6.2 6.4	6.6	6.50 1 1	6.85	7.20	6.85 35 00 35	2.04		
11	6.9 7.1	7.2	7.15 1 0	7.20	7.35	7.23 08 03 12	2.19		
12	7.7	7.8	7.75 1 0	7.85	8.05	7.88 13 03 17	1.85		
13	8.2	8.2	8.20 00	8.05	8.20	8.15 05 10 05	2.02		
14	8.7	8.6	8.65 1 0	8.70	8.45	8.60 05 10 15	1.92		
15	8.9	8.7	8.80 1 1	9.05	9.00	8.95 15 10 05	1.99		
16	9.1	9.2	9.15 1 0	9.20	9.25	9.20 05 00 05	2.06		
17	9.4	9.3	9.35 0 1	9.65	9.70	9.57 22 08 13	1.92		
18	9.7	9.8	9.75 1 0		9.75	9.75 0 . .	2.17		
19									

Pris. Comp.

	MD 2872	MD 2877	MD 2883 P. 132	Mean .78	Diff.
5	6.65	6.85	6.85	6.78 13 07 07	-0.39
6	7.75	7.85	7.45	7.68 07 17 23	-0.70
8	9.05	9.05	8.75	8.98 10 10 20	-0.85
9	.	9.65	9.65	9.65 . 00 00	-0.95
10	.	9.90	10.00	9.95 . 05 05	-1.06

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Series MD 2872 - 2883

13h - 15° 27

Scale M

MD 2875

P.C.

	1 mt	2 nd				2 nd	2 nd	Corr. for alt.
1	5.0 5.2	5.0	5.10 1 1	2.53	8.73	8.2	8.2 8.20 0 0	-0.73
2	4.8 5.0	4.7	4.85 2 1	2.67	7.52	8.2	8.3 8.25 0 1	-0.74
3	4.3 4.5	4.6	4.55 1 0	2.78	7.33	8.4	8.5 8.45 0 1	-0.78
4	5.8 6.0	5.8	5.90 1 1	2.43	8.33	9.2	9.2 9.20 0 0	-0.90
5	5.1 5.3	5.0	5.15 1 2	2.52	7.77	8.9	9.0 8.95 1 0	-0.86
6	5.1 5.3	5.0	5.15 1 2	2.52	7.77	8.6	8.6 8.60 0 0	-0.80
7	5.2 5.4	5.2	5.30 1 1	2.58	7.88	9.2	9.1 9.15 0 1	-0.89
8	5.8 6.0	5.8	5.90 1 1	2.43	8.33	9.2	9.2 9.20 0 0	-0.90
9	6.0 6.2	6.0	6.10 1 1	2.39	8.49	9.8	9.7 9.75 0 1	-1.00
10	6.2 6.4	6.2	6.30 1 1	2.33	8.63	9.9	9.9 9.90 0 0	-1.021
11	6.2 6.4	6.3	6.35 0 1	2.32	8.67			
12	6.8 7.0 (2nd)	7.1	7.05 0 1	2.14	9.19			
13	7.6	7.6	7.60 0 0	2.04	9.64			
14	6.9 (1nt) 7.1	7.6	7.35 3 2	2.08	9.43			
15	7.0 (8 2nd)	8.0	8.00 0 0	1.99	9.99			
16	7.2 (2nd)	7.3	7.25 0 1	2.10	9.35			
17	7.7	8.2	7.95 3 2	2.00	9.95			
18	8.8	8.6	8.70 1 1	1.98	10.68			
19	8.9	9.1	9.00 1 1	2.00	11.00			
20	9.5	9.3	9.40 1 1	2.03	11.43			
21	9.6	9.5	9.55 0 1	2.06	11.61			
22	9.8	9.8	9.80 0 0	2.10	11.90			
23	to fr.							

wrong units.

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Friday, October 17, 1913

Series MD 2872 - 2883 copied

$13^h + 15^\circ$ 67

Scale M MD 2876 Pb

Magn		1st	1st			Corr for att. +.16		1st	2nd		Corr for att. +.16
7.47	1	2.8 3.0	2.9	3.05	0.1	3.18	6.23	6.8 7.0	7.0	7.00	6.50
7.51	2	4.0 4.2	4.1 (2nd)	4.15	0.1	2.89	7.04	8.0	8.1	8.05 0.1	-0.71 7.34
7.67	3	5.1 5.3	5.0	5.15	1.2	2.62	7.77	9.0	8.9	8.95 0.1	-0.86 8.09
8.30	4	5.0 5.2	5.1	5.15	0.1	2.62	7.77	8.9	8.9	8.900	-0.865 8.035
8.09	5	5.2 5.4	5.3	5.35	0.1	2.57	7.92	9.2	9.3	9.25 0.1	-0.91 8.34
7.80	6	5.8 6.0	5.9	5.95	0.1	2.41	8.36				
8.26	7	6.0 6.2	6.4	6.30	1.1	2.33	8.63				
8.30	8	6.6 6.8	6.6	6.70	1.1	2.22	8.92				
8.75	9	7.0 (2nd) 7.2	7.2	7.20	0.0	2.11	9.31				
8.88	10	7.4	7.5	7.45	0.1	2.06	9.51				
	11	7.8	7.8	7.80	0.0	2.00	9.80				
	12	~~7.8~~ 8.0	7.9	7.95	0.1	2.00	9.95				
	13	8.4	8.4	8.40	0.0	1.98	10.38				
	14	8.8	8.8	8.80	0.0	1.99	10.79				
	15	9.0	9.1	9.05	0.1	2.00	11.05				
	16	9.2	9.2	9.20	0.0	2.01	11.21				
	17	9.6	9.6	9.60	0.0	2.07	11.67				
	18	9.8	9.9	9.85	0.1	2.11	11.96				

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Friday, October 17, 1913

Series MD 2872 – 2883

MD 2877 Pole A.b.

Scale M.	1st	1st		1st	2nd		
5	2.8 3.0	2.7 2.9	2.85	6.7 6.9	6.8	6.85	10
6	4.2 4.4	4.2	4.30	7.8	7.9	1.85	01
8	5.2 5.4	5.3	5.35	9.1	9.0	9.05	10
9	6.0 6.2	6.0	6.10	9.7	9.6	9.65	10
10	6.7 6.9	6.8	6.85	9.9	9.9	9.90	00
11	7.0 7.2	7.2	7.20				
12	7.8	7.9	1.85				
13	8.1	8.0	8.05				
14	8.7	8.7	8.70				
15	9.0	9.1	9.05				
16	9.2	9.2	9.20				
17	9.7	9.6	9.65				

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1913phae.proj.1031M

Friday, October 17, 1913

6 objects.

Series MD 2872 – 2883

MD 2879 B6 $14^h 40 + 45^\circ$ P. 6.

Corr. for alt +.23

Scale M	1st	1st				P. 6. 1st	2nd		
1	3.1 3.3	3.1	33	3.30	00	+3.11	6.41	6.9 7.1	7.1	7.10	00
2	4.0 4.2	2nd 4.1		4.15	01	2.89	7.04	7.0 7.2	7.2	7.20	00
3	3.7 3.9	4.0		3.95	10	2.94	6.89	7.0 7.2	7.4	7.30	11
4	3.3 3.5	1st 3.8 4.0		3.75	32	3.00	6.75	2nd 7.1	7.2	7.15	10
5	4.8 5.0	2nd 4.9		4.95	01	2.68	7.63	8.1	8.1	8.10	00
6	4.6 4.8	4.7		4.75	01	2.74	7.49	7.7	7.8	7.75	10
7	4.8 5.0	4.8		4.90	11	2.69	7.59	8.0	8.1	8.05	01
8	5.3 5.5	5.3		5.40	11	2.55	7.95	9.2	9.1	9.15	01
9	6.2 6.4	6.2		6.30	11	2.33	8.63				
10	6.6 6.8	6.6		6.70	11	2.22	8.92				
11	6.8 7.0	7.0		7.00	00	2.15	9.15				
12	2nd 7.2	7.1		7.15	01	2.12	9.27				
13	7.4	7.3		7.35	01	2.08	9.43				
14	8.0	8.0		8.00	00	1.99	9.99				
15	8.2	8.1		8.15	01	1.98	10.13				
16	8.4	8.5		8.45	01	1.98	10.43				
17	8.6	8.6		8.60	00	1.98	10.58				
18	8.8	8.7		8.75	01	1.99	10.74				
19	9.6	9.5		9.55	01	2.06	11.61				
20	9.0	9.0		9.00	00	2.00	11.00				
21	9.8	9.8		9.80	00	2.10	11.90				
22	9.9	9.9		9.90	00	2.12	12.02				

Corr. for alt +.23

1	7.10	−0.52	6.58
2	7.20	−0.55	6.65
3	7.30	−0.57	6.73
4	7.15	−0.54	6.61
5	8.10	−0.72	7.38
6	7.75	−0.66	7.09
7	8.05	−0.71	7.34
8	9.15	−0.89	8.26

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Series MD 2872 - 2883

D8 15h - 15°

MD 2881

for fr alt -18

P.B.

Corr for alt -18

Scale M	1st		2nd		Curve	Magn.	2nd	2nd			
1	4.0	4.2	4.1	4.150 1	+ 2.89	7.04	7.9	7.9	7.90 00	-0.69	7.21
2	4.1	4.3	4.2	4.25 10	2.86	7.11	8.1	8.2	8.15 10	-0.72	7.43
3	4.7	4.9	4.8	4.85 10	2.71	7.56	8.2	8.4	8.30 11	-0.75	7.55
4	5.0	5.2	5.2	5.20 00	2.61	7.81	8.4	8.3	8.350 1	-0.76	7.59
5	5.2	5.4	5.3	5.350 1	2.56	7.91	8.8 ~~9.4~~	8.9	8.8501	-0.84	8.01
6	5.3	5.5	5.4	5.45 10	2.53	7.98	8.9	9.0	8.9510 ±	-0.86	8.09
7	5.3	5.5	5.5	5.50 00	2.52	8.02	9.0	9.0	9.0000	-0.88	8.12
8	5.8	6.0	6.0	6.00 00	2.40	8.40	9.2	9.2	9.2000	-0.90	8.30
9	6.0	6.2	6.2	6.200 0	2.37	8.57	9.6	9.5	9.5501	-0.91	8.58
10	6.2	6.4	6.3	6.350 1	2.32	8.67	10.0	9.9	9.9501	-1.02	8.93
11	6.6	6.8	6.8	6.8000	2.20	9.00					
12	6.7	6.9	6.9	6.9000	2.18	9.08					
13	6.9	7.1	7.1	7.1000	2.13	9.23					
14	~~7.2~~ 2nd 8.0		8.1	8.0501	1.99	10.04					
15	8.2		8.2	8.2000	1.98	10.18					
16	8.2		8.2	8.2000	1.98	10.18					
17	8.8		8.8	8.8000	1.99	10.79					
18	9.2		9.1	9.150 1	2.00	11.158					
19	9.3		9.4	9.350	2.03	11.38					
20	9.5		9.5	9.5000	2.05	11.55					
21	9.7		9.7	9.7000	2.09	11.79					
22	10.0		10.0	10.0000	2.13	12.13					

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Series MD 2872 - 2883

A1 $4^h + 75°$

MD 2882

	Scale M	1st	2nd				Plo 2nd	2nd Mean	Corr. for alt. −.33
1	5.0	5.2	5.1	5.15	0.1	2.62	7.77	8.1	8, 2 8.15	1 0 −0.12	7.43
2	5.0	5.2	5.1	5.15	0.1	2.62	7.77	8.2	8.3	8.25	0.1 −0.14	7.51
3	5.0	5.2	5.2	5.20	0 0	2.60	7.80	8.3	8.4	8.35	1 0 −0.16	7.59
4	5.1	5.3	5.2	5.25	1 0	2.59	7.84	8.4	8.6	8.50	1 1 −0.19	7.71
5	6.2	6.4	6.3	6.35	0.1	2.32	8.67	9.0	9.0	9.00	0 0 −0.88	8.12
6	6.5	6.7	6.7	6.70	0 0	2.23	8.93	9.8	9.8	9.80	0 0 −1.00	8.80
7	6.8	7.0	6.9	6.95	0.1	2.17	9.12	10.0	10.0	10.00	0 0 −1.05	8.95
8	6.4	6.6	6.6	6.60	0 0	2.25	8.85	9.1	9.0	9.05	1 0 −0.89	8.16
9	6.9	7.1	7.1	7.10	0 0	2.13	9.23					
10	8.0		8.1	8.05	0 1	1.99	10.04					
11	7.8		7.9	7.85	0 1	2.00	9.85					
12	8.2		8.2	8.20	0 0	1.98	10.18					
13	7.9		8.0	7.95	1 0	1.99	9.94					
14	8.8		8.9	8.85	0 1	1.99	10.84					
15	8.8		8.9	8.85	0 1	1.99	10.84					
16	8.8		9.0	8.90	1 1	1.99	10.89					
17	9.2		9.1	9.15	0.1	2.00	11.15					
18	9.4		9.4	9.40	0 0	2.03	11.43					
19	9.7		9.7	9.70	0 0	2.06	11.78					
20	9.9		9.9	9.90	0 0	2.12	12.02					

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Friday, October 17, 1913

Series MD 2872 - 2883

Scale M.	MD 2883 1st	1st	Obs	O.C. 1 1st	2nd
5	3.2 3.4	3.3 3.5 4. 2nd. 3.85 0.1m		6.8 6.9 7 7.0	6.8 6.85 10
6	4.0 4.2	4.1 4.15 0.1		7.4	7.5 7.45 01
8	5.7 5.9	5.8 5.85 10		8.8	8.7 8.750.1
9	6.6 6.8	6.7 6.75 0.1		9.7	9.6 9.65 10
10	7.0 1.2 2nd	7.2 7.20 00		10.0	10.0 10.00 00
11	7.3	7.4 1.35 1.0			
12	8.0	8.1 8.05 01			
13	8.2	8.2 8.20 00			
14	8.5	8.4 8.45 10			
15	9.0	9.0 9.00 00			
16	9.3	9.2 9.25 10			
17	9.7	9.7 9.70 00			

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1913phae.proj.1031M

Thursday, October 23, 1913

Series 100 MD 3580 – 3585 omitting "K's"

Scale M.	MD 3580 1st	1st			Pole Mean.	Diff.	P.C. 2nd	2nd	
5	3.2 3.4	3.13.2 2nd	3.30 .1	3.50	3.40 .10 .10	+2.99	7.6	7.6 7.60 .00	7.75
6	4.2 4.4	4.3	4.35 .01	5.00	4.68 .23 .32	2.30	8.6	8.5 8.55 .01	8.45
8	6.0 6.2	6.0	6.10 .1	6.20	6.15 .05 .05	1.95	9.9	10.0 9.95 .10	9.95
9	6.6 6.8	6.8	6.80 .00	7.00	6.90 .10 .10	1.80			
10	6.8 7.0 2nd	7.2	7.10 .1	7.20	7.15 .05 .05	1.74			
11	7.6	7.8	7.70 .1	7.80	7.75 .05 .05	1.67			
12	7.7	7.9	7.80 .1	8.05	7.93 .13 .12	1.80			
13	8.1	8.2	8.15 .10	8.15	8.45 .30 .30	1.72			
14	8.8	8.9	8.85 .01	9.00	8.92 .07 .08	1.60			
15	9.4	9.5	9.45 .01	9.35	9.35 .10 .10	1.59			
16	9.8	9.8	9.80 .00	9.55	9.92 .12 .13	1.58			
17	M.S	M.S							

	Mean P.C.	Diff.
5	7.68 7.72 .08 .07	-+1.29
6	8.50 .05 .05	-1.52
8	9.95 .00 .10	-1.85

* wrong star.

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Thursday, October 23, 1913

Series 100 MD 3580 – 3585 copied omitting "K's"

Scale M MD 3581 [21h +15° 6 11] P.C.

	1st	2nd		curve	+1b magn.	magn.	2nd	2nd	Curve
1	3.9 4.1	4.1	4 10 00	2.59	6.69	6.41	7.6	7.6	7.60 00 -1.19
2	4.0 4.2	4.1	4.15 0 1	2.57	6.72	6.75	8.3	8.2	8.35 10 -1.50
3	5.0 5.2	5.1	5.15 0 1	2.20	7.35	7.09	8.9	8.8	8.85 10 -1.76
4	5.2 5.4	5.2	5.30 1 1	2.15	7.45	7.17	9.0	9.0	9.00 00 -1.83
5	5.7 5.9	6.0	5.95 1 0	2.00	7.95	7.49	9.5	9.6	9.55 10 -2.06
6	5.8 6.0	5.8	5.90 1 1	2.01	7.91	7.50	9.6	9.6	9.60 00 -2.10
7	6.3 6.5	6.8	6.65 1 2	1.88	8.53		n.s	n.s	
8	6.8 7.0	7.0	7.00 00	1.83	8.83				
9	6.9 7.1	7.3	7.20 1 1	1.80	9.00				
	2nd								
10	7.2	7.2	7.20 00	1.80	9.00				
11	7.8	7.8	7.80 00	1.75	9.55				
12	7.7	7.7	7.70 00	1.76	9.46				
13	7.6	7.8	7.70 1 1	1.76	9.46				
14	8.0	8.0	8.00 00	1.73	9.73				
15	8.6	8.8	8.70 1 1	1.67	10.37				
16	9.0	9.0	9.00 00	1.64	10.64				
17	9.3	9.2	9.25 10	1.61	10.86				
18	9.2	9.2	9.20 00	1.62	10.82				
19	9.6	9.5	9.55 0 1	1.60	11.15				
20	9.7	9.6	9.65 1 0	1.60	11.25				

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1913phae.proj.1031M

Thursday, October 23, 1913

Series 100 MD 3580 - 3585 omitting "K's"

Scale M MD 3585 Pole P. 6.

	1st	1st		2nd	2nd
5	3.2 3.4	3.4 3.6 2nd	3.50 1.1	7.7	7.8 7.75 1.0
6	4.8 5.0	5.0	5.00 0.0	8.4	8.5 8.45 0.1
8	6.0 6.2	6.2	6.20 0.0	10.0	9.9 9.95 0.1
9	6.8 7.0 2nd	7.0	7.00 0.0		
10	7.2	7.2	7.20 0.0		
11	7.8	7.8	7.80 0.0		
12	8.0	8.1	8.05 0.1		
13	8.8	8.7	8.75 0.1		
14	9.0	9.0	9.00 0.0		
15	9.3	9.2	9.25 1.0		
16	9.5	9.6	9.55 1.0		
17	M.S	M.S			
18					
19					

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1913phae.proj.1031M

Tuesday, Dec. 2, 1913.

Color Index:

Scale XX, A

M. 12.35

Mc 4183

		sc. 1	sc. 2	Diff.	Curve Magn.	P.C. sc. 1	P.C. sc. 2	P.C. Diff.
	5	br.						
	6	1.0	1.2		5.88			
	7	1.2	1.4		5.99			
	8	2.6	2.8					
	9	3.2	3.4	~~7.0~~	5.21			7.0 +1.61
	10	3.2	3.4	~~7.1~~	5.54			7.1 1.84
	11	4.1	4.3		5.00			7.9 1.40
	12	4.5	4.7	4.7	4.84			8.4 1.14
	13	5.0	5.2	5.0	5.15			
	14	5.6	5.8	5.6	4.94			
	15	5.8	6.0		4.98			
	16	6.0	6.2		~~4.87~~ 5.0			
	17	6.2	6.4		~~4.98~~ 4.9			
	18	7.0	~~7.2~~		~~4.73~~ 4.9			
	19	7.4	~~7.6~~		4.82			
	20	7.6	7		5.00			
	23	8.0			5.34			
	25	8.4						
	26	8.7						
	27	9.0						
	28	9.3						
	29	9.7						
+87	15	2.7	2.9		4.94			6.5 1.34
+88	80	3.2	3.4		5.52			7.2 1.72
	86	2.9	3.1		5.68			7.0 1.78
	115	3.7	3.9		4.98			7.9 0.98
	30	10.0						

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1913phae.proj.1031M

Tuesday, Dec. 2, 1913.

Color Index.

Scale ~~M.~~ M 6 4.8-3

M

	sc 1.	sc. 2	Curve	magn.		sc. 1	sc. 2	Curve	magn.	
~~1r~~	~~tab.~~									
2r	2.9	3.1		5.20	8.30	175		6.2	.	
3r	3.0	3.2		5.17	8.37	173		7.0	1.68	8.68	104
4r	3.5	3.7		5 4.05	8.75	54		8.3	1.09	9.39	118
5r	4.2	4.4	4.40 oo	4.4 4.97	9.37	70		8.8	.		
6r	4.7	4.9	4.90 oo	4.9 4.94	9.84						
7r				5.6 4.93	10.53						
8r				5.9							
9r				6.6							
10r				~~8~~ 6 .8							
11r				7.7							
12r				8.0							
4a				4.8							
5a				5.9							
6a				6.0							
9a				8.8							
10a											
11a											
12a											
13a											
14a											
		3.8									
+87 12	2.7	3.2		5.17	8.37	19		7.2	1.59	8.79	61
88 2	3.0	3.2		5.17	8.37	27		7.3	1.52	8.82	72
90	4.0	4.2		4.99	9.19	22		8.2	1.12	9.32	35
105	3.2	3.4		5.12	8.52	32		7.5	1.44	8.94	74

omitting 3r, 87°12, 88°90

8)472 +59

5)358 +72

omitting 3r, 8r

6)464 +77

3)264 +88

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1913phae.proj.1031M

Tuesday, Dec. 2, 1913.

Color Index.

Scale M.	MB. 4189 sec 1	sec. 2
a'		6.1
a²		7.0
b		7.4
c		7.2
d		7.0
e		7.1
f		7.2
g		8.1
h		8.9
k		7.8
l		
m		
o		
q		
s		
t		
w		
y		

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1913phae.proj.1031M

February 7, 1914

From the Observatory at Stockholm

Objects of interest.

11 22 21 +42 30.3 (1913)

3.3 +19.9

11 19.1 +42 50.2 (1855)

Marked on I 24401. I 24452 "a + b" marked by "a J G" for comp.

I 24252 a 3v, v 2b
I 12640 from plate. a n.s.
I 14907 a n.s.
I 17637 a 3v, v 1 b
I 22272 a n.s.
I 29849 a 3v, v 1 b [exceedingly ft. stars]
I 24401 a 3v, v 1 b
I 6086 too faint.
I 6211 a n.s.
I 20332 a n.s.
I 3463 a n.s.
I 8414 a n.s.
I 25168 a n.s.
I 5837 a n.s.
I 8448 a n.s. var. vis.
I 12107 appears br. than a.

AC 10128 Dec. 31, 1908
" 9537 June 12, 1908
" 9574 June 25, 1908
" 9952 Nov. 23, 1908
" 10226 Feb. 11, 1909

AC 9459 May 1, 1908
" 9489 May 19, 1908

These plates show ~~no variation~~ do not the objects

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1913phae.proj.1031M

Thursday, March 5, 1914

Var? found by a / b.
Marked on MC, 4788 by a / b.
Marked on ~~I 31566~~ I 24906 a', a+b.

I 24906 Mar. 21, 1900
a 1 v
v 2 b

I 20058 Jan. 17, 1898
a' 5 v
a 0 v
v 3 b

I 25237 Apr. 26, 1900
a' 5 v
a 0 v
v 3 b

I 22102 Jan. 1, 1889
a' 4 v
v 1 a

I 20700 Apr. 18, 1898
a 1 v
v 2 b

I 13968 Nov. 30, 1895
a' 4 v
v 1 a

I 31566 Mar. 18, 1904
a 1 v
v 2 b

I 24341 Dec. 28, 1899
a' 2 v
v 2 b

I 8024 Feb. 5, 1893
a' 4 v
v 1 a

I 5677 Feb. 16, 1892
a 1 v
v 2 b

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1913phae.proj.1031M

Wednesday March 18, 1917

H S L "404" Variable. Observations from 1910 to date. Sequence Marked on B 29314. transferred to AM 2388 Var. Obs. on AM 1232 in 1902.

Var. n.s on following AM Plates.

7375 March 27, 1911
7393 April 20, 1911
7406 May 1, 1911
7999 Dec. 27, 1911
8010 Feb. 17, 1912
8038 March 30, 1912
8040 April 5, 1912
8054 April 13, 1912
8087 April 20, 1912
8099 April 22, 1912
8138 May 4, 1912
8182 May 13, 1912
8252 May 25, 1912
8313 June 9, 1912
8321 June 11, 1912
8340 June 14, 1912
8812 April 6, 1913
8826 April 23, 1913
8830 April 24, 1913
8834 April 25, 1913
8852 May 3, 1913
8910 May 15, 1913
8922 May 21, 1913
9074 June 13, 1913
7394 April 17, 1911
7397 April 26, 1911

9076 Dec. 20, 1911
8036 March 30, 1912
8046 April 8, 1912
8098 April 22, 1912
8132 April 27, 1912
8744 Oct. 22, 1912
8825 April 23, 1913
8858 May 4, 1913
8924 May 22, 1913
8947 May 26, 1913
7371 March 6, 1911
7381 April 3, 1911
7414 May 14, 1911
7459 June 17, 1911
7998 Dec. 21, 1911
8037 March 30, 1912
8047 April 8, 1912
8050 April 12, 1912
8053 April 13, 1912
8060 April 16, 1912
8107 April 23, 1912
8147 May 7, 1912
8225 May 22, 1912
8242 May 14, 1912
8276 June 4, 1912
8316 June 10, 1912

8878 May 7, 1913
8917 May 17, 1913
9009 June 5, 1913
9055 June 11, 1913
B 42962 March 20, 1912 n.s
B 42967 " " 1912 n.s.

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1913phae.proj.1031M

Thursday, April 23, 1914.

Confirming Variables for AJ. 6.

No. 1 certainly Var. ~~DM~~ $-4°3155$ $11^h 44.4 - 4570$
Br. in AM 1104.
Ft. on 9335. Identified on B 25625.

No. 3 Approx. 1855 12 13.7 +1 11 Identified on I 18131
marked on ~~AM~~ AC 04 br.
~~AM~~ AC 3098 br. I 26418 br. Jan. 1, '01 I 18131 ft. May 22 '97
No. 154. 2387 br. I 6198 br. Apr. 30, '92 I 24747 ft. Mar. 10, '00
3208 ft. I 3484 br. Apr. 25, '91 I 22363 ft. Feb. 20, '99
3472 ft. I 409 br. Dec. 30, '89 I 15079 May 7, '96
3529 ft. I 8436 br. Apr. 22, '93 I 30353 Apr. 21 '03 neither br. nor ft.

No. 5 Approx. 1855 $11^h 26.3$ +0 45 Identified on B 33352

marked on AM 6117 Br. B 31752 br. Apr. 13, '03 B 10998 ft.
AC 696 Br. B 27092 br. Apr. 10 '01
731 Br. B 13615 br. June 5 '95
1304 Br. B 29058 ft. Apr. 30 '02
1343 ft. B 29198 ft Mar. 31 '02
1508 ft. B 25135 ft Apr. 17, '00
2169 ft. B 25001 ft. Apr. 7 '00
2196 ft. B 25000 ft. Apr. 7 '00
2312 ft. B 15756 ft. May 11 '96 for.

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1913phae.proj.1031M

Tuesday, August 18, 1914.

In the region of S. W. Sagittarii 19.1331 supposedly dbl. star seen ~~on~~ June 27, 1914 and not seen on July 13, 1914. The following B plates do not show star as dbl. Letter rec'd from. L. Campbell July 29, 1914 with chart of same.

B 17144 Aug. 14, 1896
18733 April 2, 1897
19454 June 8, 1897
19975 Aug. 6, 1897
22036 Oct. 13, 1898
23109 June 19, 1899
30364 July 14, 1902
32031 June 22, 1903

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1913phae.proj.1031M

Tuesday, August 18, 1914.

T Coronae Observations by Backhouse in July 22, 1914 shows var. to be equal to DM +26, 2761 which is the brightest the var. has been seen since 1883 March 30.

To ft. on AI Plates

The only Ab plates taken anywhere near date are; —

ab 15353 July 26, 1914 var. < DM +26° 2761.
ab 15340 July 21, 1914 def. in reg of DM. star var. shows. well.

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1913phae.proj.1031M

Friday, September 18, 1914.

Ann. in H.C. 184.

No. 201 on B—— has pe. sp. classified by A J C + suspected of variability by same. The following plates alone show a variation. Marked on B 16219.

11 27.6 − 64 5″2 (1900)

B 24882 Mar. 23, 1900 ft. = to c At least 1 magn. fainter than on B27054

36017 May 12, 1912 ft.

29561 Apr. 30, 1902 med.

33559 May 3, 1904 br.

36034 May 13, 1905 med.

22644 Apr. 28, 1899 br.

16219 June 10, 1896 br. = to a

27084 Apr. 9, 1901 br. = to a' var. about 0.7 fainter than

18900 Apr. 20, 1897 br.

−64°16′2 9.7

Approx. magn. range ~~1.5~~ 2.0.

a' br. than a

C.S. are not in C.P.D.

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1913phae.proj.1031M

Friday, Sept. 18, 1914

No. ~~319~~ 321 var. ? A J 6. on B 44428

The following plates have been examined and show ~~not~~ variation. Marked on B 15227

Marked wrong star in the first place. ~~23°5048~~ ~~07 42 26~~ not same star. 07 42 26

B 15227	Dec. 16, 1895	ft.	
27209	Apr. 17, 1901	ft.	
22622	Apr. 22, 1899	~~ft~~ br.	about 2 magn. fainter CDM. 26°4956 magn. 10.
24316	Oct. 2, 1899	ft.	
21040	March 18, 1898		
20602	Oct. 6, 1897		
26902	Jan. 18, 1901	70 m. n.s.	
20874	Nov. 30, 1897		
35903	Apr. 24, 1905		
33452	Apr. 23, 1904		
28746	Oct. 23, 1901		

Circ. 184

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1913phae.proj.1031M

Friday, Sept. 18, 1914.

No. 14. Var. on B 41407 by A J C.
Approx. [1875] 1ʰ 2ᵐ 56ˢ.6 − 2° 8′ 26″
Marked on B 41305

B 41305	May 18, 1910	br.	= CDM −28° 9866 magn. 8.8. C.P.D 9.5
B 25417	May 23, 1900	very ft.	Good plate.
B 32110	July 6, 1903	n.s.	Good plate. 11ᵐ
B 29649	May 14, 1902	n.s	" " 10ᵐ
B 7379		n.s	" " 10ᵐ
B 9524	June 2, 1893	n.s	" " 10ᵐ
B 14069	July 10, 1895	ft.	
B 21082	March 28, 1898	n.s.	Plate shows ft. stars.
B 16010	May 30, 1896	~~very br.~~ ft.	Good plate.
B 42176	March 18, 1911.	n.s.	Plate shows ft. stars.

Circ 184

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1913phae.proj.1031M

Wednesday, Sept. 23, 1914.

Star no. 96, on B 41405 susp. of var. by A.J.C.
Identified on B 29805. -34° 8125 12 17.6 -34 57 8.6
Has examined following AM which show variation

AM 2568	Apr. 22, 1904	ft.	
2587	May 2, 1904	ft.	
5947	Jan. 25, 1909	br.	Nearly equal to -35° 7907
5292	Jan. 30, 1908	ft.	
4265	May 29, 1906	ft.	
4155	Mar. 28, 1906	br.	
3548	May 22, 1905	ft.	
3503	May 9, 1905	br.	
3369	Mar. 6, 1905	n.s.	good plate (Shows star 2 magn. ft. than -35° 7907
2709	June 4, 1904	n.s	good plate
2528	Apr. 12, 1904	ft.	
1934	May 14, 1903	br.	

B 41405, June 3, 1914.

Br. on B 33119 March 9, 1904
ft. on B 35436 + 29131 Feb. 27, 1902
the faintest star seen on B Plates.
October 9, 1914.

Circ 184

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1913phae.proj.1031M

Tuesday, October 27, 1914

Star no. 319 on B 44428 Rec. spectrum

if Southern comp. CDM − 26° 4940 7 41.1 − 26 30 mags 16
*Northern comp. CDM − 26° 4942 7 41.2 − 26 26 CPG 9.5
9.5
CPG 9.7

marked on B 15227 also AM 2560.
The following plates show no variation of either star.

AM 4159	AM 3160	AM 1896	B 28746
4118	2593	1832	33452
4045	2479	1798	20874
4039	2451	1786	24316
3501	2387	1707	20602
3298	2371	1581	21040
3281	1957		26902
3222	1932		22622
3193	1912		27209
			35903

Nin H.C. 184.

* This star was identified in Bk. 95 as star classified.

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1913phae.proj.1031M

November 1914.

New Stars of Type IIb found by Espin.

20 45 +44 52 (1855)
Identt. on I 23675 (chart) I 38928 (spect)

21 57 38 +44 52 (1855)
Identt. on I 23607 (chart) I 23969 (spect)

23 16 21 +44 36 ± (1855)
Identt. I 23547 chart. I 38930 (spect.)

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1913phae.proj.1031M

Saturday, January 30, 1915

160844

No. 230 on B 23764. var. The following plates alone show variation:

n.s B 24980
ft. B 15864
Br. B 23764 (ep) Aug. 3, 1899
Br. B 23468 July 14, 1899
equal B 38821 May 3, 1908
my ft. B 27076

CDM -44° 10723
16 16.5 — 44 28 10
CPD -44° 7813
16 6.5 — 44 28 9.5

Marked on B 38821 with CPD magn. of surrounding stars.
About 2 magn. at least.

Br.	B 42230	April 20, 1911	10m	Br.	B 28310	Aug. 24, 1901	10m
ft.	B 41478	June 25, 1910	10m	Br.	B 26005	Sept. 5, 1900	10
n.s.	B 33799	May 23, 1904	10m	Br.	B 23049	June 16, 1899	11
n.s.	B 32094	July 2, 1903	11m	Br.	B 19275	May 29, 1897	11m
n.s.	B 29276	April 3, 1903	10m	n.s	B 6083	May 28, 1891	
n.s.	B 27076	April 6, 1901	10m	n.s	B 21192	April 12, 1898	10
n.s	B 24980	April 6, 1900		n.s.	B 21956	Sept. 15, 1898	10
Br.	B 23468	July 14, 1899	10m	n.s	B 22472	April 5, 1899	12
Br.	B 38821	May 3, 1908	12m	n.s.	B 24849	March 3, 1900	10
ft.	B 27656	June 12, 1901	60	ft.	B 25219	May 4, 1900	62
ft.	B 29847	May 27, 1902	10	ft.	B 33884	April 22, 1905	10

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1913phae.proj.1031M

Tuesday. March 2, 1915

Obj. marked on AM 10180 br, sup, on AM. 10146 ft.
The following plates alone show variation; by AJC.

AM 1589 Sept. 30, 1902 br.
AM 1528 Sept. 13, 1902 ft.
AM 2085 July 1, 1903 var. marked by somebody
AM 817 May 28, 1901 br. marked by somebody.
AM 1252 May 15, 1902 br.
AM 614 Sept. 1, 1900 ft.

Marked by AJC on B 40745 for classification.

Found by A.J.C. in Map file work.

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1913phae.proj.1031M

Wednesday April 28, 1915

Annual H. C. 196.

✓ No. 22 on B 41229 ident. as $-9°4329$, $16^h\ 5.3^m\ -9°\ 58'$ mag. 9.2 (1855) suspected of variability by A J C.

160710 The following plates show variation: —

B. m. sp. plate B 41229

B 16776 ft. July 10, 1896

B 16977 ft. " 21, 1896

B 19058 br. May 10, 1897

B 23359 ft. July 8, 1899

I 18385 br. Aug. 2, 1897

B 29700 br. May 15, 1902

B 37429 ft. May 16, 1907

I 35403 br. July 6, 1908

Variation not well marked on these plates. Probably faintest on B 37429 and brightest on B 19058. However, certainly very much fainter on sp. plate B 40589 than B 41229, May 2, 1910. July 12, 1909

Confirm on AC or AM plates. ✓ confirmed July 11, 1916.

See also p. 162

~~AM 6915~~

AM 6915 May 12, 1910 v 3a b m.s.

AM 6367 July 17, 1909 v = b

AM 6324 July 8, 1909 b ı v

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1913phae.proj.1031M

Monday, May 31, 1915.

No. 61 on B 39343 with Pec. sp. susp. of variability by A J C. The foll. plates alone show variation: Approx. 1875 16 25.5 -68 17
On B 25665 the var. appears almost as bright as the preceding star CPD -68° 2769 magn. 9.8.

B 25665 br. July 2, 1900
B 28280 br. Aug. 23, 1901
B 26013 br. Sept. 5, 1900
B 25421 ft. May 23, 1900
B 32577 n.s. Sept. 2, 1903
B 38890 ft. May 8, 1908
B 41780 ft. Aug 14, 1910

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1913phae.proj.1031M

Date minimum, about 16 – Region: 5.0 – 37.5°
Feb. 1915.

No. 74 on B 37631 with Pec. sp.; susp. of variability by a & b. The full plate alone shows variation.

Pos. −37°10602 15 48.5 − 37 27 9.3

B 43345 very br. } Then two show great diff.
B 36396 ft. }

B 16612 ft.
23917 br.
27473 br.
29446 br.
19192 very br.
9664 ft.
18765 br.
13971 br.
13305 br.
9940 br.

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1913phae.proj.1031M

Wednesday, June 9, 1915

17 40.3 -52 37
1 Ern measured.

No 66 on B 37621 susp. of variability by
a j b. Pos: 1875 approx. 17 39.2 -52 36
The following plates show variation.

174152
B 13571 ft.
B 35779 n.s
B 40485 n.s good.
B 23170 ft.
B 27594 n.s good June 6, 1901, n.s. 213
B 26234 n.s
B 11418 br. good. June 4, 1894
B 17452 br. good Sept. 25, 1896 11 mag. approx.
B 40211 ft.

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1913phae.proj.1031M

Saturday, June 12, 1915.

No. 71 on B 39457 susp. of variability by AJC

✓ Pos. 1875 appr. 18 17.3 −50 54 4 changed March 16, 1916

The following plates show variation.

Not in CPD & CDM.

1915.0

B 25497	60m	exp.	n. s. grad. <1 s
B 26084	10m	exp.	n. s
B 12172	16m	"	n. s
B 23073	10m	"	very br. grad.
B 13583	13m	"	br.
B 37698	10m	"	ft. March 30, 1912
B 17711	11m	"	ft.
B 23534	10m		~~ft~~ br.
B 22480	11m		ft
B 11628			very ft. July 20, 1894.
B 21223	10m		ft.

Last 4 plates added July 24, 1916.

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1913phae.proj.1031M

Wednesday June 16, 1915

181944

1 A star having Pec. sp. marked by A.J.C. on B39340 susp. of variability. The following plates show variation: Poo. −44° 12598 18h 17.3m −44° 21′ 10 magn.

1.8
19.1

181944

B40380	May 30, 1909	br.	12m
B33630	May 4, 1904	ft.	10.m
B28736	Oct. 10, 1901	n.s	11m
B27648	June 11, 1901	n.s	60m good.
B22070	Oct. 22, 1898	n.s	10m
B20478	Sept. 21, 1897	n.s	10m
B13582	June 4, 1895	ft.	10m
B17710	Oct. 15, 1896	br.	11m good
B6110	May 29, 1891	br.	10m

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1913phae.proj.1031M

Friday, June 18, 1915

No 41 on B 40441 susp. of variability. Near Miss Leavitt var. 16427 which is just n. f. this one being the br. of the two. The foll. plates show no variation.

B 34295
28356
43121
30633
31430
33884
33965
35763
B 26009
20281
18771
18882
19062
19439
19684
23361
21926
10060
15431

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1913phae.proj.1031M

Tuesday, June 22, 1915

On A M 3699 +4° 4584 $20^h 50.0^m$ +4° 32' mag. 8.2 (1855
found to vary on multiple images. by A. J. L.
The following A M plates show variation.

6369 July 17, 1909 br. grad.
6289 June 25, 1909 br.
6435 Aug. 4, 1909 ft.
9583 Oct. 25, 1913 ft. grad.
9287 July 31, 1913 br.
10003 July 28, 1914 br.

To find var. ft. I had to examine the foll. plates

A M. 9258	A M 7219
9234	7179
9199	7132
9562	7092
8525	7048
8425	7036
8405	7024
8373	6938
8323	6735
8249	6723
7895	6669
7804	6499
7783	6477
9435	6467
7173	
7234	

and found var. br. on all.

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1913phae.proj.1031M

Tuesday, Sept. 7, 1915

193136

Sept. 7, 1908

✓ No. 137 on B 39652 classified by A J C Md. Var.
The following plates confirm variability.

M. -36° 13638

(1875) 19 30.2 - 36 40 9.3

B 24417 br. Oct. 14, 1899
B 40409 ft. June 9. 1909
B 13666 br. June 6, 1895
B 26055 ft. Sept. 11, 1900
B 28312 ft. Aug. 24, 1901
B 17871 ft. Nov. 12, 1896

Br. in B 13666 & B 24417 A. J. C.
Range about 10.5 - 13

B 20606 br. Oct. 12, 1897
B 9216 br. Apr. 28, 1893
B 35856 br. Apr. 21, 1905
B 33499 br. Apr. 23, 1904

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1913phae.proj.1031M

Thursday, September 23, 1915

✓ Var. susp. by A. J. Cannon 16ʰ07ᵐ10ˢ DM -9° 4329.
Marked on B 19058 also AM 1325.
The following AM Plates examined show variation slight but real.

AM	
4319	June 15, 1906
5624	July 3, 1908
6119	May 12, 1909
6129	May 14, 1909
6249	June 19, 1909
8360	June 17, 1912
2060	June 22, 1903
987	Aug. 12, 1901
6945	May 28, 1910
5716	Aug. 3, 1908
5764	Aug. 20, 1908
2079	June 29, 1903
5670	July 22, 1908

The following plates alone show variation

AM 1451	mkd.	May 18, 1903
6311	very ft.	July 6, 1909
5475	br.	May 19, 1908
5552	br.	June 9, 1908

See also p. 153

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1913phae.proj.1004N

Saturday, November 20, 1915

Var. susp. by A. J. Cannon, No. "4" on B 44401.
Marked on B 38535 and ident as $-3^\circ 1800$ $7^h 6.5^m -3^\circ 43'$ (9.0)
Marked on AM. ~~2315~~ 4006. The following plates show variation.

AM
2315 ft. Oct. 9, 1903
3159 br. Oct. 30, 1904
4006 br. Dec. 4, 1905
2423 ft. Dec. 23, 1903
2418 ft. Dec. 17, 1903
1775 br. Dec. 26, 1902
1746 br. Dec. 6, 1902
4058 br. Jan. 27, 1906

AM 3267 shows this star slightly fainter on about 10 other plates.
Changes too small to be assumed unless the object is measured.

AM 1819 br.

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1913phae.proj.1031M

Saturday, March 4, 1916

✓ Var. found by A J C. No. 36 on B40426. The following plates show variation. Approx. 1875 ($\frac{17}{18}$ 15.4 -38 45)

a = CDM −38°11832 17 15.9 -38 43 mgn. 10.

B23479	br	July 15, 1899	10^m about eq. to star "a".
B38745	br.	April 23, 1908	10^m " " " " "
B38944	br	May 19, 1908	10^m " " & br. than star a.
B30105	n.s.	June 17, 1902	11^m exp.
B30339	n.s	July 11, 1902	60^m exp.
41627	br.	July 14, 1910	10^m
42306	n.s	May 19, 1911	10^m
21104	n.s	March 28, 1898	10^m
22608	ft.	April 21, 1899	10^m
27431	n.s.	May 27, 1901	10^m

Range = .4 > "a" on B38944 to n.s. on B30339 (a 60^m exp. plate.)

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1913phae.proj.1031M

Saturday, March 11, 1916

Near No. 421 on B 17084. either a very red star or var. susp. by A J B. The following plates show star always faint and no variation apparent.

C & M - 46° 11618 magn. 9.7

B 38744
42307
41628
30015
32623
29476
25081
21105
19414
13994
11284.

This is taken on three magnitudes fainter on plates than No. 421.
-46° 11618, magn. 9.6.

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1913phae.proj.1031M

July 11, 1916

✓ No. 13 on B40097. Meas. pos. 10 30.5 – 53 44. (1900)

The following show variation. Br. on Sp. B40097.

Br. on B38508

Imis. < 13 on B22842

" < 13 on B24898

" < 13 " B42974

" < 13 " B31286

Br. one B39999

Hazy ft. on B ~~38508~~ 35986 Prob. about 13.

Br. on A 3081

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1913phae.proj.1031M

February 16, 1917

An object marked by Mrs. Hinkley on AC 16083 no. 309, suspected of variability by same. The following plates examined by H.S.L. AC 15163 and 17324 show no trace of object. Pos. approx. 15 50 +69.5.

The object does not appear on the following AC plates.

10271	Feb. 28, 1909 v
9447	April 24, 1908 v
8495	May 13, 1907 v
5037	July 4, 1904 v
4796	April 3, 1904 v
2916	Oct. 21, 1902 v
16433	May 6, 1915
16267	March 14, 1915 v
8384	March 30, 1907 v
8462	April 24, 1907 v

AC 17324	Feb. 15, 1916
AC 15163	May 6, 1914
AC 16083	Feb. 9, 1915.

AC 17324 bring the nearest date to Feb. 9, 1915, the date plate AC 16083 was taken and on which object was found.

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1913phae.proj.1031M

March 21, 1917

1909.

Discovered by Fleming in Kunow Type VI, -29°6735 8 42.4 -29 21.6 (19.7)
Polaris R. on B 40292. 8 41 23.9 -29 16.2 (7.9)

Variation confirmed in case of B40292.
Range obtained from A M 6767 br. and AM 2479 ft.

Carte reg. 8 00 -23.1

Range Max. 9.3 — Min 9.9.

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1913phae.proj.1031M

March 30, 1917.

Var. of Miss Wells. conf. by MK. to get range.

On B 26960 br.
On B 29071 ft.

No seq. of intermat. scale seen

C PD don't give stars faint enough so magn. is my mistake

Range 12.0 Max to <14.0 Min.

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1913phae.proj.1031M

October 6, 1917

No. 5 on B37590 classified by Miss Leavitt as Mc
suspected of variability. Mean for 1941.4 +3 21 1855
43.7 +3 27 1900
The following B and I plates confirm variation.
B21418 br and I 15725 ft alone show variation

B19442 br.
I15869 ft.
B29489 br.
I7072 br.
I9359 br.
I27495 br.
B41659 br.
B28463 ft.
I20279 ft
B9857 ft.
I23185 ft.

Range 10.5 to 11.6. Obtained from Carte Magn.
in reg. ~~+9.50~~ 20.00 + 4.5

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1913phae.proj.1031M

Oct. 24, 1917

Var. On B 37599 star classified Ma by A J C. confirmed by the following plates.

20 h 4 + 4 23 (1855)

R I 23297 br.
B 19529 ft. n.s?
I 19206 ft. n.s?
B 6149 ft.
B 39078 br.
B 22769 br.
B 25456 br.
I 18654 br.
I 8876 br.
I 25435 br.

Range obtained from Int. sc. T X Aquilae.
Max. 10.2, Min. < 12.0.

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1913phae.proj.1031M

February 11, 1918

Was discovered by Miss Cannon on AC 1104 no. 3. The following I and A plates show variation although slight.

Appox. 1855 for. 12 13.9 +1 9.

Mean. 1855 12 13.8 +1 11

Marked J 26418 on which it is bright.

I 32585 Feb. 2, 1905

I 24575 Feb. ~~11~~ 6 ~~1905~~ 1900

I 18131 May 22, 1897

I 6198 April. 30, 1892 br

I 32649 Feb. 11, 1905

A 5968 June 17, 1902

A 5996 June 30, 1902

A 8737 May 19, 1908 br

A 550 April 25, 1894

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February 19, 1918

Var. discovered by Miss Cannon on AC
$6^h + 30°$ The following I and AC plates show
variation although slight.

⊙M + 22° 11'09.

5 48.3 +22 49

Marked on I 24682.

I 24682 br.

I 17384 br.

I 10548 ft.

AC 7913 br.
3378 br
5833 br.
5771 br.
15999 br.
13650 br.

AC 13619 ft.
4820 ft
5678 ft.
5499 ft.

Range 9.5 to 10.1. Taken from magn. of
γ Orionis. 5 49.9 +20.10

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1913phae.proj.1031M

April 5, 1918

A star suspected of variability by Mrs Fleming from its peculiar spectrum.

The following AC plates show no variation.

1958	4544
1217	567
724	1254
2119	3231
2137	3017
2989	2407
3185	2448
3290	1233
4100	1271
	718

Two plates which show star bright AC 562 + 686 are isochromatic.

The following I and B show no variation

I	B
26364	29491
31035	28793
31034	29419

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1913phae.proj..1031M

May 14, 1919

R W Andromedae 00 41 32 looked up for Mr. Campbell.

Max. about J.D. 21550, 21110, 22200.

Dates Nov. 17, 1917, Sept. 3, 1916, ~~Dec. 2, 1916~~. Aug. 29, 1919

J.D 21450 to 21530 Aug. 9, 1917 to Oct. 28, 1917 (inc.)

J.D 21800 to 21880 July 25, 1918 to Oct 13, 1918.

Plates exam. as follows;- Marked on AC 20392.

No AC plates at these dates. (Look up in cat. to make sure)

Blue { AC 20556 Oct. 1, 1918 m.s. Limit vis. 12.2
AC 20448 Sept. 2, 1918 m.s. " " 12.2
AC 20511 Sept. 18, 1918 m.s " " 12.2
AC 20565 Oct. 3, 1918 m.s " " 11.5
AC 20392 Aug. 19, 1918 m.s " " 12.2

Yellow. { AC 20417 Aug. 26, 1918 m.s
AC 20424 Aug. 27, 1918 m.s

Blue { AC 19256 Oct. 7, 1917 m.s. Limit vis. 11.4.
AC 19285 Oct. 14, 1917 m.s. " " 11.5

Yellow. { AC 19323 Oct. 22, 1917 m.s
AC 19325 Oct. 24. 1917 m.s

AC 19060 Aug. 26, 1917 m.s. Limit vis. 12.2
AC 19107 Sept. 10, 1917 " " " 11.8
AC 19157 Sept. 18, 1917 " " " 11.8
AC 19164 Sept. 19, 1917 " " " 11.8
AC 19201 Sept. 26, 1917 " " " 11.5
AC 19250 Oct. 6, 1917 " " " 12.2
AC 19283 Oct. 14, 1917 " " " 11.5

(over)

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1913phae.proj.1031M

R R Androm. Ld. 52:212 not indus

MC 12052	Jan. 12, 1917	(between #18 + 19. R R Androm).	13.8
MC 4016	Oct. 3, 1913	n.s. Limit vis. 14.5	
MC 14013	Nov. 3, 1917	very br. (= 8 on R R Androm)	11.4
MC 15441	Nov. 23, 1918	n.s. : Limit vis. 14.5	
MC 13489	Sept. 14, 1917	n.s Limit vis. 14.4	
MC 13198	Aug 18, 1917	n.s. Limit vis. 14.0	

Marked neg. of R R Androm. on M 4016

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1913phae.proj.1031M

July 21, 1919.

Var. $-4^{\circ}1025$ 4 56 31 − 4 25.0 (1855)
4 58 46 − 4 20.8 (1900)
Marked on AC 16746
C. S a + b marked by A.J.C.

AC 16746 Sept. 16, 1915
a 1 v
v 2 c

AM 11135 Sept. 11, 1915
a 1 v
v 2 b

AC 16791 Sept. 28, 1915
a 1 v
v 2 b

AM 11162 Sept. 14, 1915
a 1 v
v 2 b

AM 11153 Sept. 13, 1915
a 1 v
v 2 b

AM 11152 Sept. 13, 1915
a 1 v
v 2 b

AC 16806 Oct. 3, 1915
a 1 v
v 2 b

AC 16746 Sept. 16, 1915.
a 1 v
v 2 b

AM 11313 Oct. 4, 1915
a 1 v
v 2 b

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1913phae.proj.1031M

October 25, 1919

$\gamma^{2}_{m?}$ 37.5 − 10 39 Estimate of Miss Cannon's variable at
a.f.l. 174. on AM 3491 Br. AC 11311. See 'a' books for obs.

C.S marked on MC 4192 Taken from Bk. 7 : 10^{2}

.2 ⟨ no 5 of 99 K = 10.1
.^{4}7 no 6 of 99 K = 10.7

Range of 10.1 — 10.7

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