KG
11366
055

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Miscellaneous Observations
Nars. etc.
Bk. 2. M.E. O'Reilly

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$a > b$ a beaucoup plus grand que b

$a < b$ " faible " b

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Observations etc. of Variables.

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From page 15 to page 20, inclusive, magns. have been underlined and copied. F. C.

Series and T' reductions in this book as far as page 47 made with magns. on scale of H C 170.

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Contents Book II.

RP.

Few observations of H.S.L. Var. 485	4
Observations of RS Cassiop.	5-9
" " Algol Var. found on Mc 23 17 by H.S.L.	10-14
Measures of Stars. Seq. for C 1d (J')	15-17.
" " " " " C9 (J')	18-20
Estimates of Miss Cannons Var. 08 1042	21-
" " Nova Velorum	31-
" " Var. +14° 1598 (near C4)	33-

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Monday December 2, 1912.

Plates on which H.S.L. V pr. 485 is faint.

am 4395 ft.
am 4516
4684
5079
6466
7049
7836
1496
1982
2317
2704
3130
5092
2868
3733
4275
4398
5159
6465
4517
7135

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Wednesday March 26, 1913.

Observations of RV Cassiop. (for Miss Cannon)

Marked on I 24569.

10:30

Ac6809
e 1v 9.84
v 2f 10.03
9.94 10 09

Ac6593
e 1v 984
v 2f 10.03
9.94 10 09

Ac6774
g 1v 1062
v 2h 1066
10.64 02 02

Ac662
c 1v 8.94
v 1d 9.20
9.08 12 12

Plate very dark
Im. elong.
Ac6686
c 3v 9.14
v 1d 9.20
9.17 03 03

Ac752
c 1v 8.94
v 2d 9.10
9.02 08 08

Ac3251
g 2v 10.72
v 1h 1076
10.74 02 02

Ac935
c 2v 9.04
v 1d 9.20
9.12 08 08

Ac3413
f is faintest c.s. seen
plate poor?
var. ft.
10.23
<10.23?

Ac1084
f 2v 10.43
v 1g 10.42
10.42 01 00

trace of e.

Ac6047
g 1v 1062
v 2h 1066
10.64 02 02

Ac1131
e 3v 10.04
v 1f 10.13
10.08 04 05

Ac6588
c 2v 9.04
v 1d 9.20
9.12 08 08

Ac1171
f 2v 10.43
v 1g 10.42
10.42 01 00

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Wednesday March 26, 1913.

Measures of RV Coronis. Cont.

Inv. elongated

Ac 1756

c 1 v 894
v 1 d 920 9.07 13 13

Ac 8238 Images very peculiarly shaped

d 2 v ? 9.50
v 1 e 9.64 9.57? 07 07

Ac 12745

d 1 v 940
v 2 e 9.54 9.47 07 07

Ac 6982

e 1 v 9.84
v 2 f 10.03 9.94 10 09

Ac 12303

f 1 v 1033
v 1 g 1042 10.38 05 04

Ac 1799

c 2 v 9.04
v 1 d 9.20 9.12 08 08

Ac 9880

d 1 v 940
v 1 e 9.64 9.52 12 12

Ac 1818 (plate has 2 images of every star with trail between)

d 1 v 9.40
v 2 e 9.54 9.47 07 07

Ac 8817

e 2 v 9.84
v 1 f 10.13 9.98 14 15

Ac 1877

e 1 v 9.84
v 2 f 10.03 9.94 10 09

Ac 8872

f 1 v 10.33
v 2 g 10.32 10.32 01 00

Ac 2273.

e 2 v 9.94
v 1 f 10.13 10.04 10 09

Ac 8695

f 1 v 10.33
v 2 g 10.32 10.32 01 00

Ac 2899

d 1 v 940
v 2 e 9.54 9.47 07 07

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Wednesday March 26, 1913

Measures of R Cassiop. cont.

Ac 3163
d | v 9.40
v | e 9.64 9.52 12 12

Ac 3184
d | v 9.40
v | e 9.64 9.52 12 12

meas. on p. 6 ~~Ac 662~~
~~c | v~~
~~v | d~~

Ac 3256
h 2 v 11.06
v | k 11.11 11.08 02 03

Ac 8689
g 2 v 10.72
v | h 10.76 10.74 02 02

Ac 7827
f | v 10.33
v | g 10.42 10.38 05 04

Ac 7846
g 2 v 10.72
v | h 10.76 10.74 02 02

Ac 7115
e 2 v 9.04
v | d 9.20 9.12 08 08

Ac 7772
f is faintest c.s. seen
var < f < 10.23

Ac 4261
h 2 v 11.06
v | k 11.11 11.08 02 03

Ac 3982
f | v 10.33
v | g 10.42 10.38 05 04

Ac 4003
f | v 10.62
v 2 g 10.66 10.64 02 02

Ac 3148 im. not good.
e | v 9.84
v | f 10.13 9.9 + 10 09

Ac 3145
g | v 10.62
v 2 h 10.66 10.64 02 02

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Measures of α Corvi. Cont.

Wednesday, March 26, 1913.

Ac 2877

c 1 v 9.84
v 2 f 10.03 9.94 10 09

Ac 1986

c 2 v 9.04
v 1 d 9.20 9.12 08 08

Iso. Ac 2810

c 2 v 9.04
v 1 d 9.20 9.12 08 08

Ac 2187 Im. doubled.

f 1 v 10.33
v 1 g 10.42 10.38 05 04

Ac 2742

f 2 v 10.43
v 1 g 10.42 10.42 01 00

Ac 13649.

c 1 v 9.84
v 2 f 10.03 9.94 10 09

Images elongated. Ac 2327
too far from from centre.

f 1 v 10.33
v 2 g 10.32 10.32 01 00

Ac 155
Images too poor.

Ac 710
pl. trailed.
diff. to measure

Ac 958

c 2 v 9.04
v 1 d 9.20 9.12 08 08

12:05

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Remeasures of plates for R + C assists.

Tuesday April 8, 1913.

Ac 3184
d 2v
v 1e

Ac 3163
d 1v
v 2e

Ac 3148
e 1v
v 2f

Ac 12745
d 2v
v 1e

Ac 4003
f 1v
v 2g

Ac 6588
d 2v
v 1e

Ac 6982
d 1v
v 1e

Ac 6621 (examined with high power glass)
e 1v
v 2f

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Thursday
~~Friday~~, April 10, 1913

Plates on which Var found by H.S.L. on MC 2317 is faint -
Approx. 1855 $1^h\ 23.7^m$ + 29° 38'

Ac 8016
4277
3052
10041
11366
6619
6786
5015
12461
9146
9961
2853
3995
5788
5845
4125

Plates on which var. was slightly fainter than normal.
Ac 5216
4212
7082
13699

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Saturday April 19, 1913.

Observations of an Algol Var. found by Miss Leavitt on Mc 2317. Approx 1855 — 1h 23.7 + 29 38.
(also marked on Ac 43 56 (2 + 30°)

Monday April 21, 1913

Ac 8984
10.6

Ac 9942
10.7

Ac 10073
10.7

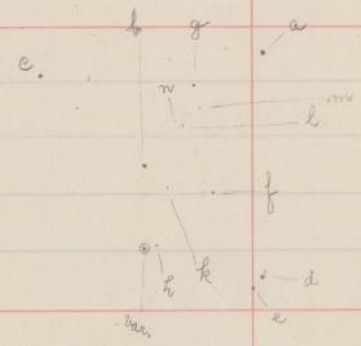
Ac 10440
10.6

Ac 10663
cannot est. g is def.

Ac 10734
t.f.

Ac 10764
ft pleiis n.s.

Ac 10796
10.7



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Monday April 21, 1913.

Algol found by H.S.L. on MC 2317.

Ac 10913
10.8

Ac 11102
10.7

Ac 11139
10.7

Ac 11284
10.6

Ac 11384
10.6

Ac 11406
10.5

Ac 11901
10.7

Ac 11935
10.7

Ac 11973
10.65

Ac 11995
Im. poor - doubled.

Ac 12027
10.8

Ac 12051
poor pl.

Ac 12096
10.7

Ac 12163
10.7

Ac 12181
10.7

Ac 4061
10.7

Ac 3318
10.6

Ac 4173
10.7

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Monday April 21, 1913.

Algol found on Mc 2317. by H.S.L.

Ac 5248
10.6

Ac 7147
10.7

Ac 7170
10.6

Ac 7243
10.6

Ac 7347
t.p. (double)

Ac 7728
n.b. ft c.s. not seen.

Ac 7812
10.7

Ac 7910
10.7

Ac 7920
Var. n.s. ft. c.s. not seen.

Ac 4961

Ac 4212
10.6

Ac 5216
10.8

May 9, 1913

Var. est. on Mc 2282
11.4

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Tuesday, April 22, 1913

Estimates of Algol var. found on Mc 2317 Cont.

Ac 12666
10?

Ac 4277
11.7

Ac 8052
11.8

Ac 30 10041
11.4

Ac 11366
11.4

result of pl.
Ac 6619
11.4

Ac 6786
11.4

Ac 5015
11.7

Ac 12461
11.5

Ac 9146
11.5

Ac 9961
11.2?

Am 2853
11.5

Am 3995
11.1 h. not sure.

Ac 5788
11.6

Ac 5845
11.5

Ac 4120 Im. along.
11.0? Var near edge of pl.

Ac 13699
11.0

Ac 7082
10.9

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Friday May 2, 1913

Scale m. Measures of Seq. for C 18 = 21h +15°

I 28989 Preceding Images.

Leopold

		Sc.1	Sc.2	pc.1				Sc.2			Curve	Magn.
lōō bright to get good measures	1	B			Curve	Magn.		7.7	7.8	7.75 1 0	-1.33	6.42
	2	B						8.2	8.1	8.15 0 1	-1.20	6.95
lōō faint	3	.						8.6	8.6	8.60 0 0	-1.02	7.58
" ?	4	.						8.6	8.7	8.65 0 1	-1.00	7.65
	5	2	9	3.1				9.3	9.2	9.25 0 1	-0.78	8.47
	6	3.0	3.2	3.4	3.6	3.40 2 2		9.3	9.1	9.20 1 1	-0.79	8.41
	7	3.9	4.1	4.0		4.05 1 0	4.79	8.84	9.5	9.3	9.40 1 1	-0.84	8.56
	8	3.8	4.0	3.9	3.7	3.95 0 1	4.82	8.77	9.7	9.6	9.65 1 0	-0.68	8.97
	9	4.4	4.6	4.6		4.60 0 0	4.56	9.16	9.9	9.9	9.90 0 0	-0.63	9.27 / 9.39 ?
	10	4.6	4.8	4.8		4.80 0 0	4.49	9.29	10.0?	10.0?	10.00 0 0	-0.61	Not positively certain of I.C. here.
" " "	11	4.9	5.1	5.3		5.20 1 1	4.31	9.51					
	12	4.8	5.0	5.2		5.10 1 1	4.35	9.45					
Dup lōō from to measure m. unit	13	.	.	.		.	.	.					
	14	5.4	5.6	5.6		5.60 0 0	4.14	9.74					
	15	6.2	6.4	6.3		6.35 0 1	3.86	10.21					
	16	6.8	7.0	7.1		7.15 2 1	3.72	10.77					
	17		7.4	7.4	sc.2	7.40 0 0	3.68	11.08					
	18		7.3	7.2		7.25 0 1	3.70	10.95					
	19		7.8	7.8		7.80 0 0	3.67	11.47					
	20		7.8	7.8		7.80 0 0	3.67	11.47					
	21		8.2	8.3		8.25 0 0	3.67	11.92					
	22		8.5	8.3		8.40 1 1	3.68	12.08					
	23		8.4	8.3		8.35 0 1	3.68	12.03					
	24		8.6	8.6		8.60 0 0	3.70	12.30					
	25		8.7	8.6		8.65 1 0	3.71	12.36					
	26		9.2	9.2		9.20 0 0	3.92	13.12					

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Friday May 2, 1913.

Scale M. Cir = 21+15

I x8989 Prec Im cont

	pc.2			Curve	magn.
27	9.3	9.3	9.30 00	3.99	13.29
28	def.	9.5	9.5	4.08	13.58
29	9.5	9.5	9.60 1 1	4.12	13.72
30	9.9	10.0	9.95 1 0	4.31	14.26

Plate.

	pc1	pc2	pc3	Mean	Diff.
5					
6					
8					
9					
10	4.0	4.2	4.0	4.10 1 1	+4.79
11	4.7	4.9	5.1	5.00 1 1	4.42
12	5.3	5.5	5.6	5.55 1 0	4.18
13	6.2	6.4	6.2	6.30 1 1	3.87
14	6.6	6.8	6.9	6.85 0 1	3.67
15	6.8	7.0	7.3	7.15 2 1	3.79
16		7.6	7.6	7.60 00	3.66
17		7.8	7.8	7.80 00	3.69
18		8.3	8.2	8.25 1 0	3.67
19		8.6	8.6	8.60 00	3.68
20		8.8	8.9	8.85 0 1	3.74
21	too close to another star				
23		9.2	9.3	9.25 0 1	3.95
25		9.6	9.6	9.60 00	4.13
26		9.9	9.9	9.90 00	4.29

	pc	pc.2	Diff.
7.6	7.7	7.65 0 1	-1.26
8.3	8.3	8.30 00	-1.32
8.9	8.8	8.85 1 0	-0.75
9.4	9.4	9.40 00	-0.70
9.7	9.6	9.65 1 0	-0.76
10.0	10.0	10.00 00	-0.58

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Friday May 2, 1913.

Scale M.

C 9 = 21h 15m

I 28989

Following Images—

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	pc.1	pc 2					Curve	Magn.
1	B		Curve Magn.		7.6	7.7	7.65 01	−1.38	6.27
2	B.				8.2	8.2	8.20 00	−1.19	7.01
3	.			.	8.5	8.6	8.55 10	−1.03	7.52
4	.				8.7	8.7	8.70 00	−0.99	7.71
5					8.8	9.1	8.95 21	−0.89	8.06
6	3.3 3.5				9.1	9.2	9.15 10	−0.80	8.35
7	3.8 4.0		4.0 a.	4.81	8.81	9.4	9.4	9.40 00	−0.74	8.66
8	3.7 3.9	B.	3.9 a.	4.85	8.75	9.7	9.7	9.70 00	−0.67	9.03
9	4.2 4.4	4.4	4.40 00	4.64	9.04	9.9	9.9	9.90 00	−0.63	9.27
10	4.6 4.8	4.8	4.80 00	4.49	9.29					
11	5.2 5.4	5.4	5.40 00	4.22	9.62					
12	5.4 5.6	5.4	5.50 11	4.19	9.69					
13	too diffuse	.								
14	5.6 5.8	5.7	5.75 01	4.08	9.83					
15	6.4 6.6	6.5	6.55 01	3.80	10.35					
16	6.8 7.0	7.1	7.05 01	3.72	10.77					
17		7.2	7.3	7.25 01	3.70	10.95				
18		7.4	7.4	7.40 00	3.68	11.08				
19		7.6	7.7	7.65 01	3.67	11.32				
20	.	7.8	7.8	7.80 00	3.67	11.47				
21		8.3	8.4	8.35 10	3.68	12.03	27	9.2	9.2	9.20 00	3.91	13.11
22		8.4	8.3	8.35 01	3.68	12.03	28	9.4	9.4	9.40 00	4.01	13.41
23		8.4	8.3	8.35 01	3.68	12.03	29	9.5	9.5	9.50 00	4.08	13.58
24	8.7	8.7	8.6	8.65 10	3.71	12.36	30	9.9	10.0	9.95 10	4.32	14.27
25	8.7	8.7	8.8	8.75 10	3.74	12.49						
26	9.2	9.2	9.2	9.20 00	3.91	13.11						

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Friday June 6, 1913.

Scale In Measures of Seq. for Cg = 17 + 15°

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too far from centre	1				Sc 1				B.C.		Curve Magn.
	2	3.3				Curve Magn.		8.4	8.4	8.40 0 0	-1.36 7.04
	3	3.1						8.6	8.6	8.60 0 0	-1.33 7.27
w.s.	4	~~3.2~~ 3.4						8.4	8.5	8.45 0 1	-1.35 7.10
	5	3.7			3.7 3.9	3.80 1 1		8.8	8.8	8.80 0 0	-1.31 7.49
	6	3.7	3.9	4.2		4.05 1 2		9.4	9.4	9.40 0 0	-1.24 8.16
	7	4.4	4.6	4.9		4.75 2 1		9.4	9.4 6	9.50 1 1	-1.22 8.28
	8	5.1	5.3	5.3		5.30 0 0	3.68 8.98	9.9	10.0	9.95 1 0	-1.15 8.80
	9	6.2	6.4	6.2		6.30 1 1	3.62 9.92	10.0?		10.0	8.86 -1.14 not sure that this is B.C.
	10	6.4	6.6	6.4		6.50 1 1	3.62 10.12				
	11	6.4	6.6	6.4		6.50 1 1	3.62 10.12				
	12	6.3	6.5	6.4		6.45 1 0	3.62 10.07				
	13	6.7	6.9	6.8		6.85 1 0	3.60 10.45				
	14	6.8	7.0	~~6.8~~		6.90 1 1	3.60 10.50				
	15			7.4	Sc 2 7	7.45 0 1	3.58 11.03				
	16			7.5	7.8	7.65 1 2	3.57 11.22				
	17			~~7.7~~ 8.3	8.4	8.35 1 0	3.57 11.92				
no unit	18			~~8.6~~ 8	8.6	8.60 0 0	3.57 12.17				
	19			8.4	8.7	8.55 2 1	3.57 12.12				
	20			8.8	8.8	8.80 0 0	3.57 12.37				
	21			9.2	9.4	9.30 1 1	3.58 12.88				
	22			9.4	9.7	9.70 0 0	3.58 13.28				
	23			9.8	9.9	9.85 0 1	3.59 13.44				
	24										
	25										

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Friday June 6, 1913.

Scale Im Measures of Deg. for C9 = 17 + 15°

I 30.580

Polar	5	pc1	pc2	pc2						Mean	Diff.
	6							7.6	7.7	7.65 0.1	-1.26
	8							8.4	8.6	8.50 1.1	-1.52
	9				Mean	Diff		9.2	9.3	9.25 0.1	-1.15
	10	5.1	5.3	5.4	5.35 1.0	3.54		9.8	9.7	9.75 0.1	-1.05
	11	5.5	5.7	5.7	5.70 0.0	3.72			10.1		-1.21
	12	5.8	6.0	6.0	6.00 0.0	3.73					
	13	6.3	6.5	6.6	6.55 1.0	3.62					
	14	6.9	7.1	6.9	7.00 1.1	3.52					
	15		7.3	7.4	7.35 1.0	3.59					
	16		7.6	7.7	7.65 0.1	3.61					
	17		8.1	8.2	8.15 1.0	3.84					
	18		8.5	8.5	8.50 0.0	3.42					
	19		8.7	8.7	8.70 0.0	3.58					
	20		8.8	8.7	8.8 8.77 0.1 0	3.82					
	21		9.2	9.3	9.25 0.1	3.57					
	23		9.7	9.7	9.70 0.0	3.50					
	25		10.0	10.1	10.00 0.0	3.73					
	26										

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Friday June 6, 1913

Scale W. Measures of Seq. for C 9 = 17 + 15-0

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		Sc.1	Sc.2	Sc.2								
two far away	1	B										
	2	B										
	3	B										
	4	3.4	3.6									
	5	3.4	3.6									
	6	3.7	3.9		3.9	3.90	0	0	·			
	7	4.4	4.6	4.9		4.75	2	1	·			
	8	4.9	5.1	5.3		5.20	1	1	3.69	8.89		
	9	5.8	6.0	5.9		5.95	0	1	3.64	9.59		
	10	~~6.4~~		6.6		6.6	·	a	3.60	10.20		
	11	6.4	6.6	6.5		6.55	0	1	3.61	10.16		
	12	6.4	6.6	6.4		6.50	1	1	3.62	10.12		
	13	6.4	6.6	6.7		6.65	0	1	3.60	10.25		
	14	6.8	7.0	7.1		7.05	0	1	3.60	10.65		
	15			7.4	Sc.2 7.6	7.50	1	1	3.58	11.08		
	16			8.1	7.8	7.95	1	2	3.57	11.52		
	17			8.3	8.4	8.35	1	0	3.57	11.92		
	18			8.6	8.6	8.60	0	0	3.57	12.17		
	19			8.7	8.7	8.70	0	0	3.57	12.27		
	20			8.8	8.9	8.85	0	1	3.58	12.43		
	21			9.4	9.2	9.30	1	1	3.58	12.88		
	22			9.8	9.8	9.80	0	0	3.59	13.39		
	23			10.0	10.0	10.00	0	0	3.60	13.60		
	24											
	25											

Curve magn.

				Curve	magn.
8.4	8.4	8.40	0 0	-1.36 ~~3.57~~	7.04
8.4	8.4	8.40	0 0	-1.36 ~~3.57~~	7.04
8.4	8.4	8.40	0 0	-1.36 ~~3.57~~	7.04
8.8	8.8	8.80	0 0	-1.31 ~~3.~~	7.49
9.3	9.3	9.30	0 0	-1.25	8.05
9.5	9.5	9.50	0 0	-1.22	8.28
9.9	9.9	9.90	0 0	-1.16	8.74

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1914phae.proj.10560

Wednesday January 7, 1914

Plates on which Miss Cannon's Var. 081042 is ~~found~~ marked B on 22459 N.S.
Ft. c.s. marked on B27252

	Ac 10045 Dec. 12, 1908	am	2479 Mar. 11, 1904	✓	
✓	Ac 9869 Oct. 31, 1908		2451 Jan. 14, 1904	✓	(am 3459 Apr. 21, 1905 See end of page)
✓	am 8924 May 22, 1913		2387 Nov. 19, 1903	✓	✓ 3427 Apr. 1, 1905
✓	8858 May 4, 1913		2371 Nov. 16, 1903.	✓	✓ 3408 Mar. 29, 1905
✓	8825 Apr. 23, 1913		1957 May 19, 1903.	✓	✓ 3356 Feb. 28, 1905
✓	8137 May 4, 1912.		1932 May 14. 1903.	✓	✓am 1912 May 6, 1903
✓	8132 Apr. 27. 1912		1896 May 4. 1903.	✓	
✓	8098 Apr. 22, 1912		1840 Mar. 18, 1903.	✓	
✓	8046 Apr. 8, 1912		1832 Mar. 5, 1903.	✓	
✓	8036 Mar. 30, 1912		1786 Jan. 3, 1903	✓	
✓	7976 Dec. 20, 1911		1707 Nov. 24. 1902	✓	
✓	7392 Apr. 17, 1911		1291 May 29, 1902	✓	
✓	6064 Apr. 25, 1909		1231 May 2. 1902	✓	
✓	5334 Mar. 26, 1908		1160 Mar. 12, 1902	✓	
✓	5276 Jan. 24, 1908		785 May 14, 1901	✓	
✓	5223 Oct. 17, 1907		735 Mar. 25, 1901	✓	
✓	4744 Mar. 16, 1907		723 Nov. 20, 1900	✓	
✓	4237 May 15, 1906		721 Nov. 17, 1900	✓	
✓	4230 May 14, 1906		391 Mar. 28, 1900	✓	
✓	4198 May 4, 1906		382 Mar. 10, 1900	✓	
✓	4159 Mar. 29, 1906		317 Nov. 27, 1899	✓	
✓	4123 Mar. 6. 1906		9 - 45		
✓	4118 Feb. 17, 1906		am 4127 Mar. 13, 1906	✓	
✓	4045 Jan. 25, 1906		4099 Feb. 13, 1906	✓	
✓	4039 Jan. 1, 1906		4047 Jan. 25, 1906	✓	
✓	2593 May 3, 1904		4014 Dec. 5, 1905	✓	
✓	2560 Apr. 20, 1904		3518 May 11, 1905	✓	(over)
✓	1581 Sept 26, 1902		3459 Apr. 21, 1905	✓	

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Thursday
~~Wednesday~~ January 8, 1913.

08 1041 −41° 39′ 11″ − Puppis

Measures of Plates on which Miss Cannon's Var. is seen:

9:10

Direct Estimates.

J.D.			J.D.
6130. ↓	am 1798 Jan. 15, 1903 V, seen but < K = 13.3 l n.s.	am 6712 Oct. 23, 1909 < f = 11.9 g n.s.	8603 ↓
5701. ↓	am 1113 Nov. 12, 1901 V, seen < g = 12.8	am 6013 (good im. g var.) Mar. 30, 1909 12.1	8696 ↓
8072.1	am 5460 May 10, 1908 12.2:	am 5904. Nov. 18, 1908 12.1 Im. elong.	8264. ↓
9153. ↓	am 7397 Apr. 26, 1911 11.9	am 5745 May 8, 1908 12.3	8270. ↓
8778. ↓	am 6881 Apr. 16, 1910 < f = 11.9 g n.s.	am 5379. Apr. 9, 1908 12.4	8041. ↓
		am 5291 Jan. 30, 1908 12.5	7991.
8652. ↓	am 6816 Dec. 11, 1909 < f = 11.9 g defective.	am 5254 Nov. 13, 1907 12.5	7893.
8619. ↓	am 6767 Nov. 8, 1909 12.3	am 4669. Nov. 8, 1906 13.5	7523
8616. ↓	am 6760 Nov. 5, 1909 12.2	am 6924 Mar. 26, 1910. < f g n.s. < 11.9	8757.

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Thursday January 8, 1913

Estimates of brightness of
~~Measures of~~ Miss Cannon's Var. 08 10 4' cont.

					J.D.
✓	9171.	am 7414	May 14, 1911	B 24524 Nov. 13, 1899 ✓	4972.
		< f = 11.9 g. n. s.		12.3	
✓	8037.	am 5363	Apr. 5, 1908	B 25088 Apr. 11, 1900	5121.
		12.5		12.5 ✓	
✓	9914.	am 8947	May 26, 1913.	B 27215 (hole) ✓	
		< 11.9 < f g. n. s.		12.6 Apr. 18, 1901	5493.
		~~Photo~~ (g is very faint on plate)		B 33066 Feb. 3, 1904	6514.
	9698.	am 8744	Oct. 22, 1912	14.1 ✓	
✓		Var. seen but too faint for good estimate		B 10905 Apr. 16, 1894	2935.
				11.0 ✓	
✓	7579.	am 4735	Jan. 3, 1907	B 10490 Oct. 24, 1893	2761
10:15		< f g n s < 11.9		11.1 ✓	
10:42					

✓	B 15260	Dec. 23, 1895	✓ B 45504 Oct. 22, 1889.	1298
	11.7	J.D. 3551	Var. 11.9 Star f is brighter than star e, ~~last~~ possible is fainter than f and brighter than e, ∴ magn. must be about 11.9	
✓	B 20464	Sept. 18, 1897	Not a good plate.	
	11.5	J.D. 4186.		

~~10:15~~

(over)

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Thursday January 8, 1914.

Est. of brightness of Miss Cannon's Var. 081042

J.D.			J.D.		
4365	B 21015 near edge Mar. 16, 1898 11.4	✓	B 35157 Nov. 7, 1904 14.1	6787.	✓
5341.	B 26644 near edge Nov. 17, 1900 12.5	✓	B 41181 11.9 Apr. 16, 1910	8778.	✓
5380	B 26833 near edge. Dec. 26, 1900 12.5	✓	B 29394 Apr. 18, 1902 13.7	5858	✓
5464	B 26987 poor pl. Mar. 30, 1901 12.6 poor.	✓	B 38606 Apr. 6, 1908 12.5	8038.	✓
5726	B 28945 edge Dec. 7, 1901 ~~N.S.~~ ft. fil. poor. <11.9 f is fleck c.s. near.	✓	B 4835 Apr. 1, 1890. 12.1 poor.	1459.	✓
6130	B 31239 edge Jan. 15, 1903 13.7 hor.	✓	B 18544 Feb. 8, 1897 t.s. near edge.	3964	
6118	B 31224 Jan. 3, 1903 13.8	✓	B 20996 Mar. 7, 1898. 11.0	4351.	✓
5499	B 27252 Apr. 24, 1901 12.6	✓	B 27127 Apr. 11, 1901 12.9	5486	✓
5080.	B 24800 edge Mar. 1, 1900 12.3	✓			

2 q from image.

f is slightly brighter than e on nearly all B plates.

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Thursday January 8, 1914

Est. of brightness of miss Cannons Var. 081042 cont.

J.D.				J.D.
3176	B12710 off plate.	Dec. 13, 1894	~~B 27~~ B22459 11.4	Apr. 5, 1899. 4750
8026	B38468 12.3	Edge Mar. 25, 1908		
5723	B28918 12.9	Edge Dec. 4, 1901		
5362	B26783 12.9	Dec. 8, 1900		
5344	B26692 12.84	Nov. 20, 1900		
4980	B24571 12.3	Nov. 21, 1899		
3544	B15234 11.5	Dec. 16, 1895		
2968	B11166 11.3	May 19, 1894		
5499	B27252 12.5	Apr. 24, 1901		

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Friday January 9, 1914

Est. of brightness of 081042 cont.

10:40

(Region examined is 7 - 45 ; ras is near edge)

Oct 12, 09.	am6667	8592	✓	am3288	Dec. 10, 04	6825.	✓
	11.6			n.s. < 13.0			
Oct. 17, 09	am6687	8597.	✓	am3407	Mar 29, 05	6934	✓
	n.s. < 11.9			n.s. < 11.9			
Oct. 24, 09.	am6717	8604.	✓	am3426	Apr 1, 05	6937.	✓
	11.46			< 12.8			
Nov. 1, 1909	am6734	8612.	✓	am3904	Sept. 19, 05	7108.	✓
	12.3			13.3			
Dec. 3, 09.	am6793	8644.	✓	am3943	Oct. 6, 05	7125	✓
	12.2			n.s. < 12.8			
Dec. 17, 09	am6820	8658.		am4012	Dec. 5, 05	7185.	✓
	Est 12.1		✓	13.2			
	f brighter than g n.s.			am4041	Jan 3, 06	7214	✓
				n.s. < 12.0			
Nov. 11, 10.	am7345	8987	✓				
	< 11.2 d is faintest c.s. seen			am4110	Feb 15, 06	7257.	✓
				n.s. < 11.9			
Dec. 23, 10.	am7360	poor 9029		am4160	Apr 13, 06	7314.	✓
	poor. n.s. < 11.2			n.s. < 11.9 poor.			

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Friday January 9, 1914.

Est. of brightness of 081042 cont.

J.D.				J.D.
7328	am 4181 Apr. 27, 06. J n.s. <12.8		am 5503 May 29, '08 J ~~<12~~ 11.9 12.3	8091
7341.	am 4210 May 10, 06. J n.s. <12.0		am 5874 Oct. 24, '08 J 12.5	8239.
7490.	am 4618 Oct. 10, 06. J 12.8		am 5931 Dec 21, 1908 J 12.3 hor.	8297.
7530.	am 4695 Nov 15, 06. J 13.4		am 5993 Mar. 25, 1909 J 11.9 ft. c.s. not seen (?) doubtful	8391.
7557	am 4719 Dec. 12, 06 J 13.3 ft.		am 6018 Apr. 9, 1909 J 11.9 elong.	8406.
	am 4769 Apr. 18, 07 J Im double.		am 1879 Apr. 24, 1903 J n.s. <11.9	6229
7864.	am 5207 Oct. 15, 07 J 12.8		am 2307 Oct. 8, 1903 J n.s. < 12.8	6396
7971.	am 5290 Jan. 30, 08 J <11.9		am 2344 Oct. 29, 1903 J n.s. < 11.9	6408.
8040	am 5372 Apr. 8, 08 J 12.7		am 2417 Dec. 17, 1903 J n.s. <11.9	6466.

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Friday January 9, 1914

Est. of brightness of Miss Gannon's Var. cont.

		J.D.		J.D.	
Feb. 23, 1904	am 2471 n.s. < 11.9	6534.	✓	am 3139 Oct. 13, '04. n.s. < 11.9	6767	✓
Apr. 2, 1904	am 2491 n.s. < 11.9	6573.	✓	am 3203 Nov. 18, 1904 n.s. < 13.0	6803.	✓
Apr. 11, 1904	am 2520 n.s. < 11.9	6582.	✓	am 3231 Nov. 14, '04. n.s. < 11.9	6799.	✓
Apr. 16, 1904	am 2546 n.s. < 11.9	6587.	✓	am 3268 Dec. 6, 1904 n.s. < 11.9	6821.	✓
Apr. 18, 1904	am 2552 n.s. < 11.9	6589.	✓	am 3352 Feb. 25, 1905 n.s. < 11.9	6902.	✓
May 5, 1904	am 2611 n.s. < 11.9	6606.	✓	am 217 Oct. 12, 1899 12.6: Faint. c.s.g trace n.s.	4971. 5001	✓
Sept. 19, 1904	am 3056 n.s. < 11.9	6743.	✓	am 259 Oct. 27, 1899 n.s. < 11.9	4986.	✓
Sept. 20, '04	am 3073 n.s. < 13.0	6744.	✓	am 355 Dec. 21, 1899 12.2 from pl.	5010.	✓
Oct. 1, 1904	am 3105 n.s. < 13.0	6755.	✓	am 693 Oct. 15, 1900 12.8	5308.	✓

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Friday January 9, 1914.

Est of brightness of miss Gannon's Var. cont.

				Var. n.s. on the following plates - too faint
Apr 14, '02	AM 1198	5854.	✓	AM 7365 Feb. 24, 1911. ✓
	<11.9			1204 Apr. 18, 1902 ✓
				1148 Feb. 12, 1902 ✓
Oct. 4, 1902	AM 1602	6027.	✓	1126 Dec. 4, 1901 ✓
	n.s. <11.9			752 Apr. 8, 1901 ✓
				413 Apr. 5, 1900 ✓
Oct. 13, '02.	AM 1648	6036	✓	367 Feb. 21, 1900 ✓
	n.s.? <12.8			343 Dec. 4, 1899 ✓
				2496 Mar. 31, 1904 ✓
Oct. 14, '02.	AM 1662	6047.	✓	2467 Feb. 4, 1904 ✓
	n.s. <11.9			2414 Dec. 16, 1903 ✓
				2400 Dec. 10, 1903 ✓
Dec. 4, '02.	AM 1738	6088.	✓	1856 Apr. 15, 1903 ✓
	n.s. <11.9			1812 Feb. 3, 1903 ✓
				5937 Jan. 16, 1909 ✓
Dec. 6, '02.	AM 1749	6090	✓	5333 Mar. 26, 1908 ✓
	n.s. <11.9			5295 Feb. 1, 1908 ✓
				4742 " 23, 1907 ✓
Dec. 9, '02.	AM 1757	6093.	✓	The following plates were examined but do not cover region of var.
	n.s. < 11.9			AM 8871 8049
				8839 8041
				8789 8015
				8783 8005
				8782 7980 edge
				8145 7876 edge
				8074 7396 edge

12:45

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Friday January 16, 1913.

Est. of brightness of Var 081042
4 plates examined

J A 4324 Apr. 23, 00
12.6

J A 9179 Apr. 25, 09
12.0

J A 2365 June 1, 1897
11.7

J A 8619 Apr 10, 1908
off plate

J AM 8588 Apr. 8, 1908
12.5

J A 10373 (D 15403)
11.6 Apr. 23, 1911
defect partly through image.

J B 42960 Mar. 30, 1912
12.1
very near edge. Estimate difficult.

B 42963
does not cover region.

J B 42893 Dec. 2, 1911
~~11.9~~ 12.0
very near edge. Estimate difficult

See P. 39
for few additional
estimates.

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Monday February 16, 1914.

Observations of Nova Velorum - Plates taken near June 1907.
C.S. marked on B 37020.

A8224 - Mar. 16, 1907.
11.5 12.1 ✓

A8317. May 9, 1907
11.4 12.0 ✓

B37322 May 3, 1907.
11.6 12.3 ✓

B37353 May 8, 1907
Im. too close. C.S. "c" is almost superposed on image of nova.

B37721 July 2, 1907.
11.6? very difficult to estimate.
12.3 ✓

Very difficult to get on Am plates as C.S. c is very close to nova.

Am4185 Apr. 1907
10.7 11.4

Am4760
No est.
C.S. b not seen.

Am5419
Off centre.

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Wednesday February 18, 1914

9:05 Observations of Nova Velorum cont.

B 41780 May 17, 1910.
12.8 14.3 ✓

B 40000 Apr. 7, 1909.
Images double, and not certain whether nova is seen. If the faint object is ~~seen~~ nova! too difficult to measure.

B 38432 Feb. 27, 1908
Nova n.s. < 12.3 < 13.4

B 38620 April 9, 1908
12.5 13.8 ✓

B 40001 Apr 7, 1909
n.s. < 12.6 < 13.9

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Thursday March 12, 1914 -

Observations of Var. +14° 1598 (new var. near C4)
marked on Mc 698.

1;50

				5456.
5365	I 26219	Dec. 11, 1900	I 26783 Mar. 12, 1901	Good pl.
	n.s. < 12.8		12.6	
5136.	I 25237	Apr. 26, 1900	I 27825 Oct. 20, 1901	5678
	11.0		n.s. < 11.7	
2912	I 10894	Mar. 24, 94.	I 25996	
	11.0		does not cover region.	—
—	I 10468		I 22402 Feb. 23, 1899	4709
	does not cover region.		10.2	
—	I 10320		I 23835 Oct. 18, 1899	4946.
	does not cover		< 12.8 n.s.	
—	I 10328		I 23940 Oct. 25, 1899	4953.
	does not cover.		n.s. < 12.3	
2769.	I 9873 Nov. 1, 93.		I 21722 from Nov. 20, 1898	4614
	< 11.5		n.s. < 12.7	
edge 5100.	I 24906 Mar. 21, 1900		I 23419 Sept. 3, 99.	4901 ↙
	10.9		n.s. < 12.2	Extreme edge
5136	I 25236 ~~Mar.~~ Apr. 26, 1900		I 23626	—
	10.9		does not cover.	

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Thursday March 12, 1914

Observations of Var. +14° 1598. Cont.

(near C4) 7 +15°

J.D.

4928 Extreme edge. I 23703 Sept 30, 1899 n.s. < 11.5 — I 23914 Oct. 21, 1899 4949. < 12.2 n.s. ∴ prev.

4357. I 20401 Mar. 8, 1898 11.2 — I 21592 Oct. 31, 1898 4594. n.s. < 11.9

4358. I 20433 Mar. 9, 1898. 11.4 — I. 21628 Nov. 2, 1898 4596 n.s. < 11.5 very poor.

4380. I 20548 Mar. 31, 1898. 11.5 — I 22058 Jan. 17, 1898. 4307. 14.1

4656. I 22098 Jan. 1, 1899. 12.6 — I 20293 Mar. 1, 1898 4350. 11.5? Inc. of h ~~along~~ hazy.

4984 I 24145 Nov. 25, 1899 n.s. < 13.8 — I 20349 Mar. 5, 1898 4354. 11.4

5017. Inv very much along. I 24341 Dec. 28, 1899 14.1 — I 20700 Apr. 18, 98 4398. 11.5

4656 I 22102 Jan. 1, 99. 12.7 — I 10059 t.p. near edge. —

6595. 4711. I 22418 Feb. 25, 1899. 10.2 — I 31584 Apr. 4, 1914 good plate 12.9

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Thursday March 12, 1914.

Observations of Var. +14° 1598 cont. (New Var. near C4)

Inv. elong.	I 29318	Oct. 6, 1902	6029.
	14.1		
	I 10898	Mar. 24, '94.	2912.
	11.4		
	I 34640	Apr. 15, 1907	7681.
	n.s. <14.2		
elong.	I 36913	Oct. 29, 1910.	8974.
	11.3		
	I 34538	Feb. 18, 1907	7635
	<14.3		
	I 34646	Apr. 16, 1907	7682.
	14.3		
	~~I 34637~~		

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Friday, March 13, 1914.

Observations of Var. +14° 1598 cont.

3:55

2904. poor.	I 10808 Mar. 16, 1894. 10.9	I 32579 off pl.	—
3886	I 16583 Nov. 22, 96 n.s. < 12.3	I 32742 off pl.	—
4019.	I 17463 Mar. 4, 97 11.4	I 32887 off pl.	—
—	I 34639 Apr. 15, 07. off edge	I 28539 off edge	—
7241.	I 33846 Jan. 30, 06. n.s. < 13.2	I 31566 on edge t.f.	—
—	I 34577 Mar. 11, 07 off edge	I 31324 Dec. 22, 03 n.s. < 12.3 very poor.	6053 6471.
—	I 28229 on edge do not see also c.s.	I 29475 Oct. 30, 1902 n.s. < 13.8	6053
—	I 28477 off plate	I 1913 edge Jan. 19, 93. 10.8	2483
—	I 32511 off plate.	I 8024 Seen but too near edge	—

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Friday March 13, 1914

Observations of Var. +14° 1598 cont.

2509	I 8009 Feb. 14, 93 10.6	I 5496 off fe.	—
Good fe. 2510.	I 8054 Feb. 15, 93. 10.9	I 5491 off fe.	—
2077	I 5049 Dec. 10, 91 11.2	I 2928 b fp.	—
21421	I 5629 Feb. 13, 92. 11.1	I B140 Feb. 22, 91. 1786. 11.5? poor	
C.S. K from			
2135	I 5564 Feb. 6, 92.. 11.4	I 916 off edge	—
—	I 5804 off edge	I 5424 off edge.	—
—	I 5677 bb near edge	I 380 b fp.	—
—	I 5613 Var seen but c.s. from.		
2134	I 5539 Feb. 5, 92. 11.3		

4:40

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Wednesday, March 18, 1914.

~~Scale~~ Observations of Var. +14° 1598 cont.

11:25

3950.	I 17191 Jan. 25, 97. 12.1	I 14678 Mar. 21, 96 elong. 36 40. 10.1
—	I 17149 t.p.	I 12335 Feb. 11, 1895 32 36. t.p.
3894.	I 16607 Nov. 30, 96 n.s. < 14.0	I 13968 Nov. 30, 95 .3528 n.s. < 12.7
4000	I 17610 Mar. 16, 97. 11.3	I 10309 Dec. 26, 93 2824 10.2½
K looks def. Im. prob.		
3975. poor	I 17389 Feb. 19, 97. 11.4	I 5049 — broken in region of Var.
—	I 16037 t.p.	a 6634 Apr. 2, 1904 6573. 13.0
—	I 14529 Feb. 25, 96. t.p.	a 403 Mar. 19, 1894 2907. 10.9
		12:10 —
3592.	I 14418 Feb. 2, 96. 10.3	
3654	I 14866 Apr. 10, 96 11.1	see also p. 40.

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Tuesday March 24 1914

Estimates of Var. 081041.

Images poor. ~~A~~ Ab 14999°
v. n.s.
trace c.s. a

" " AC 14999
v n.s.
trace of c.s. b?

Plate too poor. AC 14983.
v. n.s.
no c.s. visible.

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Thursday April 16, 1914.

Observations of Miss Cannon's Var. +14° 1598.
On Mc and MD plates.

9:30 J.D.

9809.	Mc 2682 Feb. 10, 1913. 13.9	Mc 2649 Feb. 8, 1913 9807. n.s. < 13.2.
20214.	Mc 5142 March 22, 1914. 13.0	Mc 4788 Feb. 15, 1914 20179. 12.3
20158	Mc 4665 January 25, 1914 11.8	Mc 4835 Feb. 24, 1914 20188. 12.1
20189	Mc 4893 February 25, 1914. ~~12.4~~ 12.6	Mc 5107 March 20, 1914 20212 14.3 Var. image not shaped like C's.
8775.	Mc 363 apr. 13, 1910 < 15.0	MD 3034 Mar. 22, 1913 ~~20214~~ 9849.
Trace of Var.		n.s < 12.2
8707	Mc 214 Feb. 4, 1910. < 15.0	MD. 2795 ~~Mar. 22~~ Feb. 28, 1913 9827. n.s. < 12.2
8679.	Mc 144 Jan. 7, 1910. 14.0	MD 4665 Jan. 25, 1914 20158 n.s. < 12.2
9753	Mc 2357 Dec. 16, 1912 12.2	MD 4835 Feb. 24, 1914. 20188 12.2
9769.	Mc 2412 Jan. 1, 1913. 12.6	MD 4788 Feb. 15, 1914 20179 n.s. < 11.9

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Thursday April 16, 1914

Observations of Miss Cannon's Var. +14° 1598.

MD 2706. Feb. 12, 1913
m.s. < 12.3 9811

MD 2682 Feb. 10, 1913
< 12.3 9809

MD 2412 Jan. 1, 1913.
< 11.5 9769.

MD 2357 Dec. 16, 1912.
< 12.2? 9753

MD 5107 Mar. 28, 1914.
< 11.7 30212

MC 698 8995. C.S. plate {10.2 must have been wrong estimate}
10.2 Oct. 30, 1910. Var. is fainter than f but not as dense as g, - slightly larger in size - if it were smaller, would probably be equal to g.

MC 698 Remeasured.
10.8

10:50

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Friday April 17, 1914.

Observations of +14° 1598 cont.

p

Remeasures

I 22098 Jan. 1, 1899. 0094
12.3 1 grades fter trans. o.

Ac 14589 Nov. 22, 1913.
10.6?

Ac 14636 Dec. 9, 1913. 0111
11.1

near edge. I 22102 Jan. 1, 1899. 0120
12.5? very poor image.

Ac 14681 Dec. 18, 1913. Iso.
9.4 c.s. "c" def.

I 86913. Iso double.
11.2

Ac 14692 Dec. 19, 1913. 0121
11.3

0105 Ac 14617 Dec. 3, 1913
n.s. < 11.1

Ac 14840 Feb. 5, 1914. 0169
t.p.

0091 Ac 9606 November 19, 1913.
n.s. < 11.1

Ac 14706 Dec. 27, 1913. 0129
11.4

0082 Ac 14537. Nov. 10, 1913.
10.7

Ac 14827. Feb. 2, 1914 0166
t.p. (long.)

0086 Ac 14560 Nov. 14, 1914.
11.0? Plate poor.

Ac 14811 January 25, 1914. 0158
12.3

0092 Ac 14574. Nov. 20, 1913
10.8

Ac 14890 Feb. 12, 1914. Iso 0176.
10.7? Iso. peculiar.

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Friday April 17, 1914

Observations of +14° 1598 cont.

Ac 14877 Feb 14, 1914.
12.7 0188

Ac 14896. Feb. 21, 1914
12.7? 0185.

Have looked up all plates taken between June and October, both 1912, and 1910, and found very few. Var. not seen on any to near edge.

Ac 13459 Nov. 8, 1912
11.6? 9815

Ac 13484 Nov. 17, 1912.
11.7 9724

Ac 13506 Nov. 22, 1912.
seen but too ft. to measure.

Am 8741 Oct. 21, 1912
Does not cover region.

Am 13530 Nov. 30, 1912.
12.3? 9737

Ac 13425
on extreme edge.

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Tuesday April 21, 1914.

Observations of +14° 1598 cont.

12–

C.S. on Mc 698.

1898 Jan. – May.
No plates before Oct

1899 Feb. - May

4688. Ac 188 Feb. 2, 1899
n.s. poor. <11.7?

4724. Ac 239 Mar. 10, 99.
10.2? very poor

Off plate Ac 219, 256, 220,
t.p. Ac 254, Ac 257
seen on Ac 200, but t.p.

12:20.

1900 Feb – May.

5114. Am 434 Apr. 11, 1900.
10.9? poor

Ac 717 n.s. (t.p.)

Off plate: Ac 719, 720
Ac 724 t.p.

12:27

1901 March – May
1:15 5481 Am 746 Apr. 6, 1901
11.6

Ac 1358 Mar. 19, 1901 5463.
11.6

1902 Mar – May.

Ac 2374 Mar. 1, 02 5810.
11.7?

Ac 2434 Mar. 26, 02, 5835.
11.3

Ac 2486 t.p.

A&M 1166 Apr. 1. 1902 5841.
n.s. <10.8 poor in.

Am 1195 t.p.

1903 March – May.

Ac 3421
t.p. Plate dark.

1 Ac 3427 Mar. 14, 1903. 6188.
<11.0

Ac 3470 Apr. 1, 03. poor 6206
n.s. <11.1 ?

Ac 3533 Apr. 21, 03. 6226.
11.7?

1:38

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1914phae.proj.10560

Monday, April 27, 1914.

Observations of +14° 1598 cont.

11:40

1904 April, May, Aug Sept.

n.s. < 12.2

Ac 4814 Apr. 10, 04 6581.

Ac 4828 Apr. 13, '04 6584.
< 12.3

Ac 4865 Apr. 30, 1904 6601.
11.3? pm

Ac 5301 Sept. 29, 1904.
t.p.

Am 2515 April 9, 1904 6580.
< 11.5

Am 2545 April 16, '04. 6587.
11.7

1905 April, May; Aug., Sept.

Ac 6239 Apr. 1, '05. 6937.
11.7? rej from

Ac 6295 April 18, '05. 6954.
< 10.8 n.s.

1905 cont.

Ac 6317, Apr 25, '05 6961.
11.2? fe n.s.

Ac 6725 Sept. 24, '05 7113.
n.s.? < 11.5

Am 3425 Apr. 1, '05 6937.
n.s. < 11.5

Am 3920 Sept. 29, '05. 7118.
n.s. < 11.5

1906 April May, Aug-Oct.

Ac 7451 Apr. 6, 1906 ~~7307~~
t.p.

Ac 7510 Apr. 28, '06.
t.p.

Am 4170 Apr. 24, 06. (but Dav) 7325
11.2

Am 4638 Oct. 13, 06 7497
< 12.2

(cont over)

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Monday, April 27, 1914.

Observations of +14° 1598 cont.

1907, May, Aug – Oct.

Ac 8475 May. 4, 07
t.p.

Am 5236 Oct. 31, 07. 7880.
n.s. <11.5

1908 May Aug - Oct.

Ac 9734 Sept. 8, 1908. 8194.
10.4 ?all C.S. not seen.
∴ Estimate not certain

Ac 9854 Oct. 27, 1908.
t.p. few stars.

Am 5494 May 26, 08.
t.p.

12.15

1909. May. ~~Jun~~ Aug - Nov.

1:15 Ac 10724 Aug. 18, 09.
t.p.

Ac 10846 Sept. 29, 09. 8579.
11.6

1909 cont

Ac 10996 Oct. 31, 09
n.s. t.p.

Ac 11035 Nov. 9, 09 8589.
two ft. <11.7

Ac 11041 Nov. 10, 1909 8590.
<11.5

Am 6694 Oct. 20, 1909
<11.7 8600.

Am 6789 Nov. 20, 1909 8631.
<11.5
1:30

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1914phae.proj.10560

Thursday July 9, 1914.

Looked up star for Miss Cannon +39° 2847.

Gillesc: magn. 7.0 DM 8.0. Looked up on about 10 AC plates and did not find variation.

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1914phae.proj.10560

Friday October 23, 1914.

Examination of ~~Dec~~ Ac plates to confirm suspected variability of D M +32° 1330. (marked on I 26615)

The following AC plates were examined and no change, or at least very slight (except on the 2 following plates) was found in the star. It appeared slightly brighter on Ac 5796. and still brighter on Ac 4732.

Ac 8018
Ac 8882
Ac 8237
5883
12992
12305
13015
12986
1846
5412
5250
663
1337
5499
5907
12333
14588
10832
5654
5752.

GLASS SIDE UP.

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1914phae.proj.10560

Monday. November 30, 1914.

Examination of Ac plates for Variables 094233 (S Leonis Min), and 024462 (SX Cassiop.) see also H.S.L. Bk 22 - pp. 4, 68.

Var. 094233 marked on Ac 2514 (no. 190) is faint on the following plates :-

Ac 2514
" 8112 (mat?)
Ac 3391
Ac 2951
Ac 11094
Ac 5570
Ac 8060

Var. 024462 (marked no. 2 on Ac 8088) is faint on the following plates.

Ac 4093
Ac 5369
Ac 3903
Ac 3147
Ac 3746
Ac 5863
Ac 4426
Ac 5402
Ac 6047

and slightly fainter than normal on :-

Ac 6654	Ac 3251	Ac 6754
1697	3243	
1084	5480	

see also next page

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1914phae.proj.10560

Monday November 30, 1914 -

Plates on which Var 094233 is not faint - that is, normal.

Ac 5391	Ac 1519	Ac 7122
5381	1490	7168
4849	1447	7232
4788	1342	6380
4735	9258	6346
4624	10070	6318
4545	10565	6291
4474	3350	6257
4401	3269	5974
4370	11447	5928
4310	12816	5842
4292	12902	5809
4217	865	5777
4216	661	5741
4215	600	5672
3719	Am 286	5613
3685	8356	5530
3579	8215	5528
3573	8158	2339
3528	8155	2160
3220	7584	1102
3173	7558	205
2495	7495	3234
2437	7340	3465
2417	6427	4521
2405	6902	6084
2276	6995	6146
2195	6997	
2081	7032	

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1914phae.proj.10560

Monday November 30, 1914.

Plates on which Var. 02446 2 is normal.

Ac 2850	Ac 3940	Ac 5915
AC 2899	Ac 3987	5822
2952	3913	5763
3095	3910	5723
2781	3896	5685
~~2384~~	3881	5606
~~2491~~	3385	5548
2334	3151	5314
2273	6112	5271
2221	6593	5196
2200	6588	5176
2163	6541	5122
2094	6503	4687
1756	6219	4619
1691	6076	4555
1252	6630	3932
1200	6678	5300
1171	6718	6761
1131	6732	6916
1058	6746	6809
935	6774	7940
752	6790	
514	6900	
437	6982	
264	7075	
~~4553~~	7069	
4484	7189	
4395	7181	
4086		

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1914phae.proj.10560

Monday, December 7, 1914.

Plates on which Var. No. 71 (a.j.c.) is faint. marked on I 28021.
" " Ac 6541 (4775)

Nr. 71. a.j.c.
Fk. on Ac 4417

5714
5378
Br. on Ac 3751
3773

The variable is faint on

The following plates	Ac 4417	Ac 2048
	5388	5219
	5846	3614
	3572	4413
	5561	4538
	5403	14920
	13458	13645
	7346	4197.
	7204	
	6895	
	1045	
	811	
	490	
	156	

About 200? or more plates examined.

see also page 55

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1914phae.proj.10560

Tuesday December 8, 1914.

Var. 02 4462 examined on I plates (see also P. 49) marked on I 19769.
Few C.S. marked on I 16766.

I 2180
I 28115
I 2423
I 18511
18504
18494
16697
16766
13584
13571
very poor 11620
11593
9948
9768
7806
7636
5821
5146
5143
4548
1916
very poor 1915
4548
2850
4159
9950

Miss O'Reilly,
Please measure
08 1041 in these two
AC plates, or estimate
faintest star of sequence
A. J. C.

86
140
42
291 plates meas.

1 p. esge.

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1914phae.proj.10560

Tuesday December 8, 1914.

Var. 02 4462 examined on I plates (see also P. 49) marked on I 19769.
Few c.s. marked on I 16766.

I 21808 ?:?

I 2811

I 2423

I 1851

18504

18492

16697

16766

13582

1357

very poor 11620

11593

9948

9768

7806

7636

582

5146

5143

454

1916

very poor 1915

454

2856

415

9950 l.p. edge.

031646 R T Peck
Observ on AC plates,
using magnitudes BK 19, p. 28
If variable is brighter at
maximum than star c,
it will be necessary to add
companion stars.
Order a', -- b, a, -- c, e, f, h, d, g, k

23
86
140
42
291 plate-meas.

1914phae.proj.10560

Tuesday December 8, 1914.

Var. 02 4462 examined on I plates (see also P. 49) marked on I 19769.
Few C.S. marked on I 16766.

I 21808 ~~H.?~~
I 28115 t. fr.
I 24234 ~~slightly fainter~~
I 18511 Sl. ftes.
18504 Br.
18494 "
16697 Normal?
16766 "
13584 "
13571 Off fd.
very poor 11620 fainter?
11593 Br.
9948 off fd.
9768 " "
7806 " "
7636 Br.
5821 "
5146 off fd.
5143 Normal.
4548 "
1916 Faint.
very poor 1915 "
4548 Normal or Bet.
2850 off fd.
4159 Bet.
9950 d. f. edge.

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1914phae.proj.10560

Tuesday, December 8, 1914-

Var. 094233 examined on I plates. See also pp. 49-50.

	I Leon. Mem.		No. 190 on ac 2514-	marked on
				I 20640
	I 20326	off fil.	I 5748	ft.
	17751	Bit	5666	"
	17773	sl. fainter	5692	bit? near edge
	20507	off fil.	751	t.f.,
	21889	" "	775	sl. ft.
	21892	ft.	1111	" "
	20327	very ft..	1161	bo near edge-
	12650	bit.	3510	sl. fainter.
	12340	sl. fainter	3323	Bit.
	12102	bit	20635	Bit.
	17502	sl. fainter?	3515	sl. fainter.
	17746	off fil.	24053	ft.
	15136	" "	24056	ft.
	15057	" "	22037	Bit.
	14213	bit.	220212	off fil.
	14648	off fil.	24055	" "
	10039	t.f.	26938	Bit
	10282	t.f.	22722	sl. fainter.
	10854	t.f.	22051	" "
very faint	10860	bit	24363	Bit:
near edge	8337	bit	24498	"
" "	8235	"		
	8227	"		
	6035	off fil.		
near edge	6020	bit		
" "	5912	bit		
" "	5872	"		

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Thursday, December 10, 1914 -

Var. 07.473 Examination I plates previous to 1901. See also p. 52.

~~IV~~ Var. no. 71 (a. J.C.

	I 19608	bit	I 16647	bit Edge -
	I 13603	"	I 10295	" bit near edge.
	I 25295	"	I 806	" "
	I 25108	"	I 3154	"
	I 13591	"	I 8101	"
	I 19782	"	I 16880	"
poor	I 14384	"		
	I 16642	"		
	I 16673	"		
	I 16926	"		
	I 13596	diffuse.		
	I 8100	"		
	I 8106	bit.		
	I 8307	"		
	I 8308	"		
	I 9827	"		
	I 1986	"		
	I 700	"		
	I 804	"		
	I 808	"		
	I 3590	diffuse?		
	I 5161	diffuse.		
	I 5590	bit.		
	I 5591	"		
too near edge	I 23595	diffuse.		
bit edge	I ~~2411~~ 22411	bit		
" "	I 19522	"		

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Thursday Dec. 10, 1914

Plates on which Var. of 473 is normal or bet on Ac plates.

Ac 125	Ac 3415	Ac 5452	Ac 14605
211	3463	5696	14777
393	3920	5726	14830
725	3927	5916 poor	14920
789	3949	5927	
1056	4005	5991	
1157	4017	6035	
1192	4071	6039 f.p.	
1429	4115	6075	
1962	4162	6102	
2087	4181	6203	
2165	4231	6214	
2222	4288	6240	
2293	4308	6296	
2310	4325	6389	
2365	4483	6696	
2376	4419	6860	
2487	4550	6954	
2595	4588	6976	
3062	4589	9406	
32127	4638	13329	
32132	4671	13394	
3287	4689	13760	
3329	4815	13710	
3340	4978	14440	
3379	5187	14603	
3408	5274		

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Monday March 8, 1915

~~State~~

11

Observations of η Carinae using Argelander's Method.

B3/3688 f' plate. $10^{h}\,41^{m} - 59°$ / $11^{h}\,0^{m} + 15°$ — Stan Seq. C6 Parr. Magn. for C6 Apr. 20, 1915

Figures = Stan. Seq. letters = var. seq.

a

~~1 4 b~~

a > 1 6.74 76.8

~~1 4 f~~

2 t.p.

b 4 e 8.59

e 1 7 8.49 / 8.54 05 05

b 2 f 8.39

f 3 4 1 8.29 / 8.34 05 05

7.55 2

4 3 a² 7.88 2

a² 1 5 6 8.19 8.09 / 7.99 14, 13

5 of St. S. Region not used. t.p.

b 4 g' 8.59

g' 2 7 8.39 / 8.49 10 10

~~4~~ 4 x 3 a³ 7.82

a³ 2 6 7.9 / ~~8.09~~ 7.90 08 09

15 3 g 10.22

g 2 16 10.19 / 10.20 02 01

4 4 a⁴ 7.92

a⁴ 1 6 8.09 / 8.00 08 09

a' not measured close double.

8.19 b 1 b 8.29

~~b = b~~

b 4 7 8.59 8.19 / 8.24 05, 05

4 4 a⁵ 7.92

a⁵ 2 6 7.99 / 7.96 04 03

8.19 6 1 c 8.29

c 4 7 8.59 8.19 / 8.24 05, 05

4 3 d 7.82

d 1 6 8.09 / 7.96 14 13

Seq. for Var. has ~~be~~ a secondary eff. but no secondary eff. on Stan. Region.

b' double. Components too close to measure.

12:01

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Monday March 8, 1915.

η Carinae cont.

8 2:40 a 8574 / 8234 — 7' plate — Var region with S. Region 13h +15° C7

a > 1.688 — 6.9 — 9.59 8 | d — 9.69 a.
C.S. too far away.

9.19 | 3 a' ? — 9.49
a' 2 8 ? 9.59 — 9.39 / 9.44 ? 05, 05
. ε < δ .
9 is poor and near edge.

Images not
Comp. very poor.

δ not meas.
C.S. 10 is too far from Seq.

8.96 b | a'' ? — 9.06
a'' | 9.19 — 9.09 / 9.08 ? 02, 01
10.11 11 | g' ? — 10.21
g' | 12 10.36 — 10.26 / 10.24 ? 03 02

b 2 a³ — 9.16
a³ 2 | — 8.99 / 9.08 ? 08 09
11.23 16 2 g — 11.43
g 2 17 11.60 — 11.40 / 11.42 01 02

8.96 b | a⁴ — 9.06
a⁴ 2 | 9.19 — 8.99 / 9.02 04 03
| 2 ν ? — 9.39
ν | 8 — 9.49 / 9.44 ? 05 05

C.S. too far from one another

b 2 a⁵ ? — 9.16
a⁵ 1 | ? — 9.09 / 9.12 ? 04 03

9.19 | 2 b — 9.39
b 2 8 9.59 — 9.39 / 9.39 00, 00

9.19 | c ? — 9.29
c 2 8 ? 9.59 — 9.39 / 9.34 ? 05, 05

Secondary image on Var. & Region, but not on Stan. Seq.
Plate is very poor (quad E).

3.30

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Tuesday March 16, 1915

Examination of plates for discordant measures.

D5 Mc 4843 D6. ⊙ 6:27.

Slit 10. Error in reductions Corrected in books.

C8 Mc 5481 fov. ⊙ 6:110.

Slit 13 fr. meas. independently 9.1. Large accidental Error seems only cause for discordance.

Image very poor.

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Thursday, March 25, 1915.

Discordant measures on Star Reg. looked up.

C11 ~~C11~~ MC 5864 Star 20. Error in reduction. Corrected in Record Bk & in Original Record.

D8 MC 5711 21 Star 10. 07.118. Independent measure made. 8.7 Original measure was 9.4 Image is poor and does not compare well with scale. (Correctly marked & reduced)
Do not think 9.4 is entirely wrong but on account of the poorness of the image, a correct scale reading is difficult.
Discordance evidently due to accidental Error.

D11 MC 3737 Star 25 05.93
Error in subtracting alt. correction.
Corrected in Bk. 8. Note given to L.S. 14.

D1 MC 5412 Star 13,14 P.C. 07:14
~~D1 MC~~ This is a large systematic difference between star images and P.C's on this plate.
P.C. of 14 measured independently 8.7 & agrees with original measure, altho image is poor.
P.C. of 13 not remeasured. Too poor & is not comparable with scale.
Gave Miss Leavitt note to examine plate further

C3 MC 4797 P.C. star 14. 05.42
Independent measure 8.9 — agrees with original measure of 8.8 ~~Do not see map~~ no error in marking or reduction. Why discordant?

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Friday, March 26, 1915.

Examination of Discordant Measures for Standard Regions.

C3 Star 13 Mc 2533. Sd 40:87.

P.C. measured independently by O. -8.4 Agrees with Sd's measure. 8.4 Image is rather large + hazy and does not compare well with scale.

Correctly marked + reduced.

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1914phae.proj.10560

Tuesday March 30, 1915.

Examination of discordant means. cont.

D 2 MC 2525 Ster 3 f.c. Ld 40;81

Independent measure made 6.9 - does not agree with Ld's previous measure 7.t.

measure rejected by Miss Leavitt. "Error in recording or measuring."

See Ld Bk 40 : 81.

D3 MC 4660 OC's 5, 6, 7

meas. independently as follows:—

		Orig. meas.
5	7.2	6.7
6	7.4	7.1
7	7.8	7.8

Wrong star may be meas. originally. star appears fainter than 6.7.

Looked up 8 on an AC plate and found 7 brighter than 8

also on the Original B plate and 8 appears brighter than 7.

8 is near center, 7 nearer edge.

On MC 4660, no. 8 is brighter than 7.

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Friday April 2, 1915.

~~Scale~~ Examination of discordant measures -

~~D 12~~

D12 Mc 6318 Star 15.
Correctly marked & measured.
Error in subtracting altitude. Corrected in
Bk 8 - checked by Miss H.

" Mc 3904 Star 17. ⊙ 3:20?.
"Images are poor - elongated and not
comparable with scale" - noted in Original Record -
measured independently 5.5 — difference of
3 tenths between this and former measure -
Examined by H. S. L. - decided plate was very
poor and may have to be rejected.
Discordance due to difficulty in measuring.

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Saturday April 2, 1915—

Examination of discordant measures—

D11 Mc 3737 Slate 15,16 "(curve?)"

Correctly marked. Independent measures made as follows/—
15 – 6.1 16 – 5.9. which agrees fairly well with orig. measures.
16 is brighter than 15 on this plate, and also on Mc 6310 and Mc 6221—
Curve ~~corrected~~ reading correct.

D11 Mc 6310 Slate 33 Og. 120.

meas. indep. with scale.

32 7.8

33 7.9 , but without scale Slate 33 appears brighter than 32. Its images are slightly winged on one side. On Mc 6640, 32 appears slightly brighter than 33. Think original measure of 32 is too bright.

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Wednesday April 14, 1915

Examination of plates for discordant measures -

B 5 Mc 4823 pr. Stars 3 – 4. Sd 45: 207.

Remeasured by Miss Leland. – $\begin{matrix} 3 & 8.7 \\ 4 & 8.9 \end{matrix}$ Original measures were $\begin{matrix} 3 & 7.5 \\ 4 & 7.6 \end{matrix}$, but Miss Sd thinks there was an error in measuring or recording, not wrong units. However not certain of either. To be rejected?

C 5 Star 8 p.c. Mc 4842. 06: 28.

Remeasured - 7.7 There is an image to the right of the star which measures 8.4 (original measure) I may have measured this star instead of P.C. Previous measures certainly wrong.

B 8 ~~Star~~ Star 28 Mc 6636 –

Remeasured star 28 – 8.87 - which agrees with previous measure - 8.80.
Reduct No error in reduction.
Cannot decide cause for discordance.

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Tuesday April 27, 1915

by M.O.R.
Var. found on mc 7842 Region +7½ -16.5 taken Feb. 17, 1915.

Bright on mc 7842 taken Feb. 17, 1915.
" " I 34578 " Jan. 11, 1907.
" " a 2965 " Apr. 13, 1898.
" " a 3476 " " 19, 1898
" " ac 16144 " Feb. 20, 1915 from.

mc 7842 925 11.58 } using mags. in BK32
v 39a 11.78 } (mean of Cacte Regions)
11.68 }

mc 7428 n.s. < 15.3
Range 11.7 to < 15.3

n.s. on mc 7455 taken Dec. 23, 1914 -
n.s. on mc 7428 taken Dec. 22, 1914 -
n.s " " 7594 " Jan. 9, 1915.
" " " 7625 " " 10, 1915.
" " " B29420 " Apr. 26, 1902
" " a 5147 " " 26, 1901.
" " a 8216 " Jan. 14, 1907.
" " a 10541 " Apr. 13, 1912
very ft.? " a m4760 " Apr. 12, 1907

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Tuesday April 27, 1915

Var. approx. $6^h\ 57.9^m$ $-16°\ 23'$ (1855)

The following plates examined, var. n.s.

B 24199	Sept. 23, 1899	
B 28822	Nov. 13, 1901	
~~B 24199~~	~~b~~	
B 31177	Dec. 9, 02	
am 5222	Oct 17, 1907	
Ac 9119	Dec. 31, 1907	n.s? poor
Ac 9105	Dec. 26, 1907	
Ac 16011	Jan 10, 1915	
Ac 16308	Mar. 23, 1915	def. ~~in~~ covers region.
B 21229	1898	does not cover —
B 21201	"	" " "

Variability confirmed by Miss Leavitt. April 27, 1915 —

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1914phae.proj.10560

Wednesday June 9, 1915

Examination of plates for discordant measures.

MC 5581 63 K –

Star 13 – Remeasured on above plates as follows: –

12 7.6

13 8.6

14 8.7 – These measures agree with previous measures – Evidently no error in measurement. Examined on MC 5764 and MC 3575 also, for variability. No evidence.

Miss Leavitt says "no evidence of variability, discordance ~~seems to be due to~~ photographic." June 9, 1915

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Tuesday June 15, 1915

Experimental measures of position and scale – measuring machine.

	N	V	H	C.C.	V	H	(Putting star between 6th + 7th images on left scale which ~~start~~ begin with 6th image)
1							
2	1761		1060	1	1766	1047	
				7.3			
2a							
3							
4							
4a							
5							
6							
7							
8							
9							
10							
11	~~1547~~	1517	1121				
	6.3						
12	1565		1126				
	6.7						

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Tuesday June 15, 1915

mc8535 (Yellow)

		V	
13		1495	1083
	7.2		
14			
15		1444	1158
	7.4		
16		1436	1164
	7.6		
17			
18		1416	1177
19			
20			
21			
22			
23		1472	1118
	9.4		
24			

Interrupted. Miss Leavitt to use machine.

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1914phae.proj.10560

Saturday June 19, 1915.

Experimental Measures of fraction and scale - measuring machine.

	D	H	sc.1 sc.2	D.C. sc.1 sc.2	Mc8535 (yellow)
Ref. 1	1761				
2	1761	1060		7.1	
2a	1341	1098		7.3	
3	1390	1163		7.8	
4	1346	1176		8.3	
5	1265	1270		8.4	
6	1284	1212		nearly out?	
7	1319	1161		9.5	
8	1383	1110		8.3	
9	1252	1141		8.4	
10a	1428	1258	B.	t.f.	
10b	1414	1254	5.9 5.4		
10	1388	1228	6.2 5.7		
11	1516	1121	6.1 5.6		
12	1554	1127	6.6 6.1		
13	1494	1088	7.1 6.6		
14	1371	1088	7.5 7.0		
15	1446 ~~1554~~ u.s.	1159 ~~1127~~	7.4 6.6	6.1	
16	1436	1164			
17	1361 ~~1415~~	1138 ~~1154~~	7.6		
18	1415	1179	7.6		
19	1377	1196	8.2		
20	1374	1140	7.6		
21	1410	1111	8.3		
22	1407	1186	8.7 8.9		
23	1472	1118	9.4 on Scale		
24	1393	1110	9.3		
25	1478	1055	t.f.		

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1914phae.proj.10560

Saturday June 19, 1915

Rich Region Scut. Sob. MC8535 (Yellow)

	V	H	sc.1 sc.2	P.C. sc.1 sc.2
1	1440	1352	8.5	
2	1474	1349	8.6	
3	1457	1347	8.4	
4	1450	1342	9.2	
5	1464	1340	9.3	
6	1438	1339	7.4	
7	1448	1331	9.3	
8	1439	1330	7.3	
9	1464	1325	9.4	
10	1442	1323	t.f.	
11	1440	1321	9.3	
12	1473	1321	8.6	
13	1470	1320	9.5	
14	1474	1318	9.6	
15	1470	1317	8.4	
16	1459	1314	8.3	
17	1434	1311	8.5	
18	1443	1310	8.6	
19	1484	1308	8.4	
20	1455	1306	8.2	
21	1444	1305	9.1	
22	1474	1304	B	8.3
23	1441	1300	8.1	
24	1444	1298	8.3	
25	1478	1291	8.2	
26	1464	1290	8.4	
27	1463	1289	8.4	

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1914phae.proj.10560

Saturday June 19. 1915.

Rich Region Sept. Sat. MC8535 (Yellow)

		V	H	sc.1	sc.2
	28	1476	1288	84	84
	29	1463	1285	84	84
	30	1452	1282	7.6	
	31	1444	1283	8.7	
	32	1440	1283	8.6	
	33	1472	1278	8.5	
(1st or 2nd zone?)	34	1431	1275	7.5	
	35	1468	1271	8.9	
	36	1443	1267	9.4	
	37	1442	1265	9.2	
	38	1449	1261	8.6	
44 (H.S.L.) =	39	1470	1260	8.8	
	40	1470	1257	8.3	
46 (N.S.L.) =	41	1450	1251	8.8	
	42	1470	1245	8.7	
	43	1437	1247	8.3	
	44	1441	1243	9.4	
	45	1455	1237	8.8	
	46	1462	1237	8.5	
	47	1464	1235	9.1	
55 (H.S.L.) =	48	1436	1233	8.2	

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Friday July 9, 1915

3:30 P.M. Examined I 39140 - 39143 for Hebe for Miss Cannon.
Superposed I 39140 on I 8628 and found
object on 1st I plate, not on latter.
Also used B 11033. Conformed by Miss Cannon.

Re 1 1915

sc

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Wednesday August 16, 1915 –

Examination of plates to determine variability of star "fr" of the comp. star sequence for R R. Herculis 160625. C.S. marked on I 18291. (also on MC5390)

Plates on which "fr" is brighter than r.

I 22783.
I 16062
I 25133
I 15650 t.f.
I 12889 – one c.s. scratched.
I 26946
I 8187 v.fr.
I 25150
I 31748 t.fr.
I 27130
I 15408 n.s.
I 28962 shows clearly fr brighter than r.
I 23035
I 26623
I 18281
I 20958
~~I 25749~~
I 18291.

On I 25207 – fr is about equal to r in brightness. Images are not alike – comparison is diff.
I 25749 – images appear nearly equal

If there is any change in star fr, it is slight, according to the plate used, as per above. On some plates, the sequence is near the edge.

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1914phae.proj.10560

Thursday October 1, 1915.

Var. 404. H.S.L. - Examination of plates after June 1913 - (see Mk3: C.S. marked on B 2931f - Transferred to am 2388 (fr. on AM 1232)

11:15

~~Am~~

am 9719 May 23, 1914
n.s. < l

~~Am~~

am 9694 Apr. 21, 1914
n.s. < m

am 9678 Feb. 13, 1914.
n.s. < l

am 9691 - Mar. 15, 1914 -
n.s. < l

am 9692 Mar. 30, 1914.
n.s. < g

am 9716 Apr. 18, 1914
n.s. < l

am 9728 Apr. 22, 1914
n.s. < k

am 9752 May 5, 1914 1.20
n.s.

am 9766 May 4, 1914 -
n.s. < m

Am 10230. Oct. 24, 1914
n.s. < n

Am 10327 May 6, 1915
n.s. < n

Am 10365 Apr. 1, 1915
n.s. < m

Am 10378 Apr. 5, 1915 very good pl.
n.s. < g

Am 10439 Apr. 19, 1915

am 9697 Apr 4. 1914 -
n.s. < m

am 9704 Apr. 14. 1914 -
n.s < l

am 9723. Apr. 21, 1914 -
n.s. plate does not show ft. stars.

am 9729 Apr. 22, 1914
n.s. < g

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1914phae.proj.10560

Thursday October 1, 1915—

Dec H.S.L. Vol. 404 — Exam. of plates after June 1913 Cont-

IV

~~IV~~ I

Am 9740. Apr. 27, 1914— n.s. < l

Am 9754 May 8, 1914 Dec n.s.

Am 9768 May 14, 1914 n.s. < l ~~Dec~~

Am 9762 May 11, 1914 Dec n.s.

Am 9787 May 26, 1914 n.s < m

Am 9813. June 2, 14 Dec. n.s.

Am 9797 May 29, 1914 n.s < l

AC 14990 Mar. 19, 1914 n.s. < l

Am 9890 June 23, 1914 n.s. < l

AC 14999 Mar 20, 1914 n.s. < l

Am 10336 Mar. 13, 1915 n.s. < l

Am 10439 Apr. 19, 1915— n.s. < do

1-45

Am 10379 does not cover region.

Am 10552 May 6, 15 ns < o

Am 10354 Mar 26, 15 Dec. n.s.

Am 9742 Apr. 28, 14 Dec. (ns.

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Friday October 8, 1915

H. 8 L. Var. 404 (Nova? Pyxidis)

A 100621 May 6, 1910.
V 1 W due to long expr?

B 43020 Apr. 18, 1912.
t.f.

B 43678 May 15, 1913
n.s. < 6

B 43703
does not cover region

B 43678 missing?

Var. not on the foll. spect plates
B 43619 Apr 24, 1913
does not cover — B 43038 " " "

B 41158 Mar. 19, 1910
n.s. < 9.

B 41301 May 18, 1910
n.s. < 8

A 11169
does not cover var.
{thru B 45571
thru A 11279.}

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1914phae.proj.10560

Thursday December 9. 1915

Examination of plates for discordant measures in K Regions.

11:40. Mc 3964 Ld 42:198 95K.

P.C. star 3 discordant

marking correct. ~~Region not in centre.~~

Mc 6402.

	P.C.	sc 2	P.C.	sc 2	
2	7.6		7.5		agree with prev. measures – Oq: 7.4
*3	8.4		8.3		
4	10.0.		9.7		

* Meas. in Ld 42:198 rejected by Miss Leavitt. Evidently wrong image measured.

94 K

Sc R. Mc 3951 Mc ~~6402~~ 6364 P.C. star 1 discordant.

	sc. 1	sc 2		sc 1	sc 2	
		8.6				
1	8.3			~~4.3~~	6.4	(Im. fuzzy at one side)
2	9.4			~~9.8~~	6.7	
3	11.1			~~11.8~~	7.7	

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Wednesday December 15, 1915

c' added to seq. for U Pegasi. Estimates in grades using Argelander's method c – c' – d.

Mc 6324
p.c. c' def.

Mc 3883
(p.c.) c 6 c' 10.42
c' 5 d 10.25
10.34 08 09 06

Mc 3715
p.c. c 7 c' 10.52
c' 4 d 10.35
10.44 08 09 04

$A^{c}_{\wedge}$ 16939
c 7 c' 10.52
c' 4 d 10.36
10.44 08 09 04

AC 16789 ~~17021~~
c* 7 c' 10.52
c' 5 d 10.25
10.38 14 13 02

AC 17021
c 5 c'
d = image defective.

Sum 00 8-8
4
Mean 10.40 ±0.040

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Friday December 1, 1915

Found Suspicious Object on Mc 2206 - taken Nov. 29, 1912

Position (plate north up, glass side up)

113 mm. from left side of plate.

142 mm. from north end of plate.

Object does not appear on Mc 2214 taken Nov. 30, 1912.

Is it a defect?

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Thursday January 27, 1916.

Examination of C.P.D. −41° 329 for variability.
marked on B32766.
~~Am~~ No evidence of variation. about 12 or 15 plates examined

am 691	am 7791	am 2466
3927	8781	6581
3227	10125	9515
6780	5161	1821
5917	1821	5138

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1914phae.proj.10560

Monday, February 28, 1916.

Estimates of brightness of var +4° 4584 (a.j.c) (See also P. 201)

10:40

{ C.S. marked by A.T.C. on ac 16953 (21 00.)
"b" added "J.F.S.L." aI 13963 (20 00.
Var found on am 3699 (21 + 15) by A.J.C.

ac 5361	ac 88
✓ 8.2	✓ 8.1
ac 5428	ac 359
✓ 8.4	✓ 8.4 (2 appo-bright images only used.
ac 1541	ac 5230
✓ 8.5 Im. poor.	✓ 8.4
am 1634	ac 1124
✓ 8.4	✓ 8.6? poor
ac 79.	ac m 1338
✓ 8.5	✓ 8.4
aG 939	ac m 1341
✓ 8.4? Very badly scratched	✓ 8.5
ac 5209	ac 5254
✓ 8.4	✓ 8.4
am 1102	am 1345
8.4	✓ 8.4
am 1302	ac 5271
✓ 8.4	✓ 8.3

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1914phae.proj.10560

Monday February 28, 1916.

Estimates of +4° 4584 cont.

am 1078
✓ 8.4 (centrals in used)

am 1984
✓ 8.3

ac 5366
✓ 8.4

ac 1762
✓ 8.4

am 1905
✓ 8.4

am 2129
✓ 8.4

ac 594
✓ 8.3

ac 18
✓ 8.4

ac 894 poor
✓ 8.4?

am 2036.
✓ 8.4

ac 1497
✓ 8.4

am 2066.
✓ 8.3

am 2187
8.3

ac 1797
✓ 8.2 badly fogged

am 2672
✓ 8.4

ac 1791.
✓ 8.6? badly fogged

am 2774
✓ 8.4

am 2908
✓ 8.9

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Monday February 28, 1916.

Estimates of nov. +4° 4584

am 2849	ac 2992
✓ 8.2	✓ 8.2
am 2876	am 2236.
✓ 8.2	✓ v. off edge.
ac 470.	am 2583
✓ 8.4	✓ 8.4
ac 392	ac 2998.
✓ 8.4	✓ 8.2? very poor.
ac 1080	ac 4225
✓ 8.3	✓ 8.4
ac 2933	ac 3027
✓ 8.4	✓ 8.5
am 2193	ac 3775
✓ 8.4	✓ 8.4
ac 4075	am 2968
✓ 8.4	✓ 8.4
ac 3757	ac 1824
✓ 8.4	✓ 8.2

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Monday February 28, 1916.

Estimates of var +4° 4584.

Ac 3819
v 8.3

Ac 3862
v 8.3

Am 2300
v 8.1

Ac 3908 faint
v 8.2

Ac 4274
v 8.4

Ac 4981
v 8.4

Am 2664
v 8.1

Am 3044
v 8.3

Ac 1965
v 8.4

Ac 3931
v 8.4? Im. of var large & hazy, c.s. sharp.

Ac 3853
v 9.0

Ac 1993
v 8.4

Ac 4934
v 8.4

Ac 5066
v 8.3

Am 2991
v 8.2

Am 3083
v 8.2

Ac 1911
v 8.3

Ac 2584
v 8.4

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1914phae.proj.10560

Monday February 28, 1916.

Estimates of brightness of +4° 4584.

Ac 3974 poor ✓ 8.4?	Ac 2734 poor ✓ 8.2?
Ac 5071 ✓ 8.2	Ac 2784 ✓ 8.4
Am 3106 ✓ 10.0	Ac 4058 ✓ 8.4
✓ Ac 3708 8.2	✓ Ac 2897 8.5? v. image hazy.
Ac 2022 ✓ 8.4	Ac 3736. ✓ 8.3
Ac 2697 ✓ 8.4	Ac 5466 ✓ 8.4
Ac 3996 ✓ 8.4	Am 54 ✓ 8.4
✓ Ac 2722 8.4 poor.	Ac 6369 (guide 1) ✓ 10? poor. badly fogged
Ac 4046 poor ✓ v. n.s. < 9.4	Ac 5537 ✓ 8.3

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1914phae.proj.10560

Monday February 28, 1916.

Estimates of brightness of +4° 4584.

am96
v t.f. Out of focus

am195
v 8.4

AC6418
v t.f.

am3670.
v 8.3

AC55521
v 8.4

AC6999
v 8.2

am103
v 8.4

am3721
v 8.4

AC6752
v 8.4

AC5433
v 9.0

am3592
v 8.4

am3765
v 10.0

am122
v 8.4

AC7081
v 8.3

am3618
v noting compl.

AC6441
v 9.8? (l def. var comp. with k + m.

AC6805
v 8.4

am994
v 8.4

12:18

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1914phae.proj.10560

Tuesday February 29, 1916.

Estimates of brightness of var. +4° 4584 (a & c)

10:11

am218 8.5	am517 8.4
am5057 8.4	am5200 (good pl.) 8.3
ac7107 8.4	ac7672 8.2
am5088 8.4	am5404 8.4
ac6737 8.4	ac6694 8.4 (Var. in large + hazy)
am5091 8.2	am5508 8.3
ac7624 8.3	am518 plate poor 8.4
am5149 8.4	am5571 does not cover region (23+15)
am233 8.4	am5589 9.0
am5186 8.2	ac7705 9.0

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1914phae.proj.10560

Tuesday February 29, 1916.

Estimates of brightness of var. +4° 4584. cont.

am5611	ac7840 plate poor
✓ 9.0	✓ 8.2
am600	am890
✓ 8.1	✓ 9.1
am5653	ac7901
✓ 8.4	✓ 8.2
am862	am950
✓ 8.4	✓ 8.3
am5714	ac7982 T'
✓ 8.2	8.4? Image very faint
ac7980	ac8012
✓ 8.4	✓ 8.4
am5727	am926
✓ 8.4	✓ 8.2? (mult. im. fl - right hand image weak film up.
ac7825	ac6478
✓ 8.2 var bit	8.3? var. image large.
am5781	ac8518
✓ 8.2	✓ 8.2
am871	ac8552
✓ 8.2	✓ 8.4? poor

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1914phae.proj.10560

Tuesday February 29, 1916.

Estimates of var. +4° 4584 cont.

am1003 8.4	ac6657 ✓ 8.2? var. rin. large.
ac8596 ✓ 8.2	ac9039 ✓ 8.4
am1057 (mult. image) ✓ 8.4? reject?	am6723 ✓ 8.4
ac6500 ✓ 8.3? poor	am4699 ✓ 8.2
ac8653 ✓ 8.2 Inn. var. large	am6735 ✓ 8.3
ac6508 ✓ 8.2	ac9529 ✓ 8.4
ac8704 ✓ 8.2 poor	ac11829 ✓ 8.4
ac6599 ✓ 8.2 fogged	am9583 ✓ 9.6
ac8798 ✓ 8.2	am6938 ✓ 8.2
ac8813 ✓ 8.4	ac11969 ✓ 8.3

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Tuesday, February 29, 1916.

Estimates of var. cont.

am 7024 v 8.2	am 3906 v 8.2
am 4855 v 8.3	Ac 9590 v 8.2
am 7036 v 8.2	am 6289 v 8.4
Ac 9535 v 8.2 (Ort image used 2 exps. on fil.)	am 7132 v 8.4
Ac. 12074 v 8.4	am 3913 v 8.3
am 4898 v 8.4	Ac 9730 8.4 badly fogged
am 7048 v 8.2	am 4929 v 8.2
am 3893 v 8.4	am 7173 v 8.3
am 7092 v 8.2	am 3929 v 8.3
am 7179 v 8.2	~~Am 3906~~ see next column
	Ac 9742 v 9.2? very faint.

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Tuesday. February 29. 1916.

Estimates of var. cont.

am3954. ✓ 8.1	ac9694 ✓ 8.2
am4949 ✓ 8.4	am5053 ✓ 8.2
am4219 ✓ 8.2	am4253 ✓ 8.4
ac9137 ✓ f.p. badly fogged.	am5838 ✓ 8.5
am4943 ✓ 10.1	am4285 ✓ 8.4
am4234 ✓ 8.4	ac9624. ✓ 8.4
ac9813 ✓ 8.4	am5850 ✓ 9.0
am4990 ✓ 9.8	am4306. ✓ 8.4
am4192 ✓ 8.4	ac9854. ✓ 8.4
am5051	, ac8859 9.5

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Tuesday February 29, 1916.

Estimates of var. +4° 4584 cont

am6231
✓ 8.4? poor

am5871.
✓ 8.4

ac8898
✓ 8.2

am5888
✓ 8.3

ac9866.
✓ 8.4

ac8996
✓ 8.2

ac10009
✓ 8.2

ac9920
✓ 9.5 poor

ac9907
✓ 8.4

ac9991
✓ 8.2

ac10982
✓ 9.1

ac10998
✓ 8.4

ac11009
✓ 9.0

ac11043
✓ 8.4

ac11804
✓ 8.3

am4396.
✓ 8.4

am4458
✓ 8.3

am4537
✓ 8.2

am6407
✓ 8.4

am6435
✓ 9.0

am6477.
✓ 8.4

am6511
✓ 8.4

11:40.

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1914phae.proj.10560

Wednesday March 1, 1916-

Estimates of brightness of var. +4° 4584-

10-05

am4503 ✓ 8.4?	am4603 ✓ 8.4
ac11755 ✓ 8.4	am10800 ✓ 8.4
ac10465 ✓ 8.2 var. large hazy	am7293. ✓ 9.1
✓ ac11768 8.4	ac10670 ✓ 8.4
am10003 ✓ 8.4	am4652 ✓ 8.4
am4520 ✓ 8.4	ac12711. ✓ 8.4
ac12739 ✓ 8.4	am4656 ✓ 8.3
✓ am10692 8.4	am10827 ✓ 8.4? several vis. fruin (large vis) used
am4513 ✓ 8.1	am6662 ✓ 8.4 from
ac10581 ✓ 8.4	ac10750 ✓ 8.4

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Wednesday March 1, 1916.

Estimates of brightness of +4 4584 cont.

Am 7662	Ac 10818
✓ 8.4	✓ 8.2
Am 10668 from	Ac 17.125
✓ 8.4	✓ 8.2
Am 7609	Ac 10856
✓ 9.1	✓ 8.2
10:21 Interr 10:37 Ac 16788	Ac 17187
✓ v off edge	off edge
Am 7684	Ac 10894
✓ 8.4	✓ 8.4
~~Ac 16829~~ Ac 17101	Ac 12126
✓ 8.4?	✓ 8.2
	Ac 10965
~~Ac 10762~~ does not cover	✓ 8.2
	Ac 12419
Ac 10792	✓ 8.4
✓ v off edge	
	Ac 16829
Ac 16954	✓ off edge.
✓ v off edge	
	Ac 10976 from
	✓ 8.2

10:53

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Wednesday March 1, 1916 -

Estimates of var. + 4 4584 cont.

11:55

Ac 12441 ✓ 8.4	Ac 11621 tp. (light-struck?)
Ac 11082 ✓ 8.4	Ac 12598 ✓ 8.6
Ac 12459 ✓ 8.4	Ac 11628 ✓ 8.4? poor
Ac 11085 ✓ 10.1	Ac 12631 ✓ 8.4
Ac 12479 ✓ 8.4	Ac 11629 ✓ 8.4 poor
Ac 11122 ✓ 9.0	Ac 12701 ✓ 8.4
Ac 12502 ✓ 8.4	A_{H}^{m} 9487 ✓ 8.9
Ac 12412 ✓ 8.4	Ac 14012 ✓ 8.4
Ac 11141 ✓ 8.2	Ac 13227 ✓ 8.4
Ac 12561 ✓ 8.4	Am 8383 ✓ off edge

12:05

1-05

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1914phae.proj.10560

Wednesday March 1, 1916.

Estimates of var. +4° 45 84 (var.)

Am 7726
✓ 8.4

Ac 16610
✓ does not cover var.

Ac 13257
✓ 8.4 fogged

Ac 12771
✓ 8.4

Ac 16424
8.2

Am 7783
✓ 8.3

Am 8405
✓ 8.4

Ac 12806
✓ 8.4

Am 10849
✓ 9.4

Am 10957
does not cover var.

Ac 13302
✓ 8.4

Ac 13216
✓ 8.4

Am 8425
✓ 8.4

Ac 16642
✓ 8.4? var. in very large.

Am 10915
✓ 8.4

Ac 13222 Images flow
✓ 8.5

Ac 13390
✓ 8.4

Am 7804
✓ 8.2

Am 8481
✓ 8.4

Ac 13410
✓ 8.3

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1914phae.proj.10560

Wednesday March 1, 1916.

Estimates of +4° 4584 (var)

Am 10962 ✓ 8.4	Ac 14086 ✓ t.p. very badly fogged.
Ac 13438 ✓ 8.4	Am 8373 ✓ 8.4
Ac 16715 does not cover var.	Ac 14018 ✓ 8.4
Am 7895 ✓ 8.3	Am 10828 ✓ 8.4
Ac 13442 ✓ 9.5	Am 9207 ✓ not sent from Peru
Am 11075 does not cover var.	Ac 15310 ✓ 8.4
Am 8249 ✓ 8.4	Ac 14240 ✓ 8.2
Am 11097 8.4	Am 8525 ✓ 8.4
Am 8323 ✓ 8.4	Ac 14210 ✓ 8.4
Am 11130 8.4	Am 8535 on edge ✓ >f. c+d are off pl.

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1914phae..proj..10560

Wednesday March 1, 1916.

Estimates of +4° 4584 (var.)

ac 14216 ✓ 8f	am 8662 ✓ 8f
am 8562 ✓ 8f	ac 14394 ✓ 8f
ac 15397 ✓ 8?	am 8671 ✓ 8f
am 8609 ✓ fp.	ac 15513 ✓ 8?
ac 14267 ✓ 8f	ac 14471 ✓ 8f
am 9309 ✓ 8f	am 8688 ✓ 8f
ac 15562 ✓ 8f poor	ac 14528 ✓ 8?
am 8631 ✓ 8f	am 8702 ✓ 8f
am 9134 ✓ 8f poor	am 8727 ✓ 8? ? poor
ac 15243 ✓ 8f	ac 14563 ✓ fp. trails

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1914phae.proj.10560

Wednesday March 1, 1916.

Estimates of var + 4° 4584.

Ac 14281
~~Ac~~ 8.2 poor

Am 8736.
v 8.4

Ac 15552
does not cover

Am 9338
v 8.4

Am 8876. poor
v 8.4

Ac 15569.
v 8.4

Am 9001
v 8.4

Ac 14618
v 8.4

Am 9023
v 8.4

Ac 15213
v 8.4

Am 9111
v 8.4

Ac 15553
v 8.4

Am 9119
v 8.4

Am 9234
v 8.4

Ac 15295
v 8.4

Ac 14322
v 8.4

Ac 15510
v 8.2

Am 9258.
v 8.4

Ac 14422
v 8.3

Ac 15285
v 8.4

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1914phae.proj.10560

Wednesday March 1, 1916.

Estimates of var. +4° 4584.

Am9287
✓ 8.4

Ac14492
✓ 8.4

Am9435
✓ 8.4

Ac15452
✓ 8.2

Am9460.
✓ does not cover region

Ac14422
✓ 8.4

Ac15403
✓ 8.4

Ac15442
✓ 8.3?

Am6141
✓ 8.4

2:37°

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1914phae.proj.10560

Thursday March 2, 1916.

Estimates of brightness of var. +4° 4584 (A.J.C.)

11:22

Ac 1609 8.4	Ac 5258 8.4
Ac 1502 8.4	Ac 1533 8.4
Ac 944 8.4	Ac 849 8.2
Ac 1547 8.4	Ac 5208 Im. poor 8.2
Am 16 8.4	Am 1968 8.4
Ac 965 8.4	Ac 5150 8.4
Ac 941 8.2? multi. im. plate	Ac 5136. 8.4
Ac 5302 8.4	Ac 848 8.4
Ac 916 8.4	Ac 5130 8.0? not meas.
Ac 4165 8.2 poor	Am 1955 8.4

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1914phae.proj.10560

Thursday March 2, 1916.

Estimates of brightness of var. #4 4584 (a.f.c.)

ac417	am1540.	
✓ 8.4	✓ 8.4	
ac5116	ac339	
✓ 8.4	✓ 8.4	
am1920	ac4945	
✓ 8.4	✓ 8.4	
ac5083	ac52	
✓ 8.4	✓ 8.4	
~~ac416~~ am1690	am1537	
✓ 8.4	✓ 8.4	
ac5005	ac4935	
✓ 8.4	✓ 8.5 fun	
ac1608	ac1538	
t.f.	✓ 8.4	11:55
		12:05
am1590.	am3004	
✓ 8.4	✓ 9.3	
ac4916.	am4821	
✓ 8.4?	✓ 8.4	
ac363 (mult in)	am2953	
✓ 8.4?	✓ 8.4	

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Thursday March 2, 1916.

Estimates of var. +4° 4584 cont.

am4671.	am4541.
✓ 8.6 Im large	✓ 8.4
ac3995	ac3861.
✓ 8.4?	✓ 8.4
am4621	am2726.
✓ 8.4	✓ 8.6
am2925	am4448
✓ 8.4	✓ 8.4
ac3941	am2716.
✓ 8.4	✓ 8.4
am4548	ac3796.
✓ 8.4	✓ 8.4
am2864	am4942
✓ 8.3	✓ 8.4
am4932	am3191
✓ 8.3	✓ 8.4
am2808	ac3788
✓ 8.4	✓ 8.4
ac3929	am4433
✓ 8.4	✓ 8.4

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Thurday March 2, 1916.

Estimates of var. +4° 4584. (cont.

am 2591 v 8.4	ac 3008 v 8.4	am 4207 v 8.5
ac 3741 v t.f.	am 4277 v 8.4	am 3162 v 8.4
am 4421 v 8.1	am 2161 v 8.4	
am 2289 v 9.3	ac 2954 v 8.4	
ac 3674 v 8.5	am 5016 v 8.4	
am 4381 v 8.4	am 2133 v 8.4	
ac 3612 v 8.4? very poor	ac 2911 v 8.4 very poor.	
am 4956 v 8.4	am 4270 v 8.4	
am 2270 v 9.0	am 2120 v 8.1	
am 4487 v 8.4	ac 2905 v 8.4	

1235

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1914phae.proj.10560

Saturday March 4, 1916.

Estimates of brightness of var. +4° 4584 cont.

3:05

Am6603	Ac10981
✓ plate too faint	✓ 9.4
Ac6614	Ac2817
✓ 8.4	✓ 8.4
✓ Ac10071	Am6991
plate t.p.	✓ 8.4
Am6654	Ac6804
✓ 8.2	✓ 8.4
Am6682	Am7058
✓ 8.4	✓ 8.4
Am10534	Ac6878
✓ 8.4	✓ 8.4
Ac6709	Ac10635
✓ 8.5	✓ 8.4
Am6984	Ac2789
✓ 8.4	✓ 8.4
Ac10629	✓ Am7091
✓ 8.4	8.4
Ac6750	Ac10660
✓ 8.5	✓ 8.4

2:20

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1914phae.proj.10560

Monday March 6, 1916

Estimates of brightness of var. +4° 4584.

4—

~~Ac 2800 (yellow)~~
am 7097
✓ 8.4

am 7122
✓ 8.4

Ac 10666
✓ does not cover

Ac 6990
✓ 8.4

am 7130
✓ 8.4

Ac 2674 (badly streaked)
✓ 9.4

am 7155
✓ 8.4

Ac 10677 v. n.s.
on extreme edge of film. If var. is on plate and ff, it is 2 K.

Ac 7106
✓ 8.4

Ac 7601 t.f.
✓

Ac 10916.
✓ 8.4

Ac 7657.
✓ 8.4

Ac 2623
✓ 8.4 t.f.

Ac 10817
✓ 8.4

Ac 2021.
✓ 8.4

Ac 10901
✓ 8.4

Ac 2042
> 8.5 c.s. c off plate

Ac 10945
✓ 8.4

Ac 2594
✓ 8.4

Ac 10970.
✓ 8.4

4:15

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1914phae.proj.10560

Wednesday, March 8, 1916.

Estimates of var. +4° 4584.

1:4°

am 8726 ✓ 8.4	am 5506 ✓ 8.5
am 5690 ✓ 8.5	am 8646 ✓ 8.4
am 8681 ✓ 8.4	ac 6494 ✓ 8.4
ac 6486. ✓ 8.4	am 5498 ✓ 8.4
am 1462 ✓ 8.4	ac 6437 ✓ 8.4
am 5664 ✓ 8.4	am 1288 ✓ 8.5
am 8661 ✓ 8.4	am 8622 ✓ 8.3
am 5577 ✓ 8.4	am 5403 ✓ 8.4
ac 6467 ✓ 8.4	am 1263 ✓ 8.4
am 1416 ✓ 8.4	am 8441 ✓ 8.9

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1914phae.proj.10560

Wednesday March 8, 1916.

Estimates of var. +4° 4584.

C

ac 6334 ✓ 8.4	am 5172 ✓ 8.4
am 5193 ✓ 8.2	ac 5453 ✓ 8.4 very poor
am 8408 ✓ 8.4	am 876. ✓ 8.4? (melt. image)
am 946. ✓ 8.4	am 8151 ✓ 8.4
am 8380 ✓ 8.4	am 5170. ✓ 8.4
ac 5690 ✓ 8.4	am 811 ✓ 8.4
am 5179 ✓ 8.4	ac 6572 ✓ 8.4
am 8267 ✓ 8.4	am 8125 ✓ 8.4
ac 5604 ✓ 8.4	am 5731 ✓ 8.1
am 877 (melt image) ✓ 8.4?	am 801 ✓ 8.3

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Wednesday March 8, 1916.

Estimates of +4° 4584

am5116.
✓ 8.4

ac5394.
✓ 8.4

am7904
✓ 8.4

am653
✓ 9.2

am5077
✓ 9.0

am7863
✓ 8.4

ac5344
✓ 8.4

am7803
✓ 8.4

ac10037
✓ 8.4

am624
✓ 8.2

2:20

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1914phae.proj.10560

Friday March 10, 1916.

Estimates Nf +4° 4584.

10:17

am 7652 ✓ 8.4	ac 11895. ✓ 8.4
am 7258 ✓ 8.4 (brighter of 2 mi. used)	am 7700 ✓ n.s. 65 poor.
am 7683 ✓ 8.4	am 6571. ✓ 8.4
am 7247 ✓ 8.4	ac 11179 ✓ 8.4
ac 12451 ✓ 8.4	ac 11743. ✓ 8.5
ac 12417 ✓ 8.4	am 6532. ✓ Smashed.
am 7178 ✓ 8.4	am 6551 ✓ smashed.
ac 11899 ✓ n.s. poor. 28.1	am 6423 ✓ 9.6
am 6614 ✓ 8.5	am 535 ✓ 8.4
am 6599 ✓ 8.4	am 7280 ✓ 8.4

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Friday, March 10, 1916.

Estimates of var +4° 4584.

ac9935 ✓ 8.4	am7775 ✓ 8.4
ac12465 ✓ 8.4	am6390. ✓ 8.5
am1486. ✓ 8.4?	am7590. ✓ 8.4
am6406. ✓ 8.4	ac9691 ✓ 8.4
ac9800 ✓ 8.2? d def.	am164 ✓ 8.4
✓am464 8.4	ac9662 does not cover var.
ac12471 ✓ 8.4	am6350. ✓ 8.4
ac9745 ✓ 8.4	am129 ✓ 8.4 (large image only used)
am181 ✓ 8.4	am7583 ✓ ~~8.4~~ 8.4
am7287 ✓ 8.4 pm	ac9656 ✓ <9.1 os. "h" ms. (edge)

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1914phae.proj.10560

Friday Mar. 10, 1916.

Estimates of var. +4° 4584.

am 38 ✓ 8.4	ac 1947 ✓ 8.4
ac 9644 ✓ 8.4	am 6283 ✓ 8.4
am 30 ✓ 8.4 very low	ac 9567 ✓ 8.4
am 6339 ✓ 8.4	am 6253 ✓ 8.4
ac 9626 ✓ 8.4	ac 1931 ✓ 8.4
am 29 ✓ 8.4	ac 8988 ✓ 8.4
am 6336 ✓ 8.4	ac 16573 ✓ 8.4
✓ ac 7787 8.4	ac 14582 ✓ 8.4
ac 9572 ✓ 8.4	am 8480. ✓ 8.6
ac 7721 ✓ 8.4	✓ am 11401 8.6

2 –

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1914phae.proj.10560

Wednesday March 15, 1916.

Estimates of brightness of +4° 4584. cont

11:25

am6096 ✓ 8.2	am9396 ✓ 8.4
am9206 ✓ 8.4	✓ ac1921 8.4
am5849 ✓ 9.5	am6176 ✓ 8.2
am11391 ✓ 8.6	am11104 ✓ 8.5 poor
am5810 ✓ 8.4	am3916 ✓ 8.1
am9177 ✓ 8.4	ac1879 ✓ 8.4
am11319 ✓ 8.4	am9292 ✓ 8.4
am6156 ✓ 8.4	am3898 ✓ 8.4
am9398 ✓ 8.4	am6241 ✓ 8.4 (2 eyes)
am5993 ✓ 8.4	✓ am11080 8.4

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Wednesday March 15, 1916.

Estimates of brightness of var. +4° 40 84.

Ac 1842 v 8.4	Ac 14307 v 8.4 ? Inn. C.S. very faint
Am 9133 v 8.4	Am 8990 v 8.4
Am 3849 v 8.4	Am 3729 v 8.4
Ac 14442 v 8.4	Ac 1745 v 8.4 Plate very fine
Am 3795 v 8.4	Ac 14221 v 8.4
Am 9110 v 8.4	Am 3706 v 8.2
Ac 14320 v 8.4 Inn. fine	Ac 14208 v 8.4
Am 9049 v 8.4	Am 8593 v 8.4
Ac 1750 v 8.4 fine	v Am 3656 8.4
Am 3740 v 8.4	Ac 1735 v 8.4

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Wednesday March 15, 1916.

Estimates of brightness of nov. +4° 4584.

Ac 14161 ✓ 8.4	Ac 17153 12:15 ✓ 8.4
Am 3600 ✓ 8.1	Ac 14125 ✓ 8.4
Am 8545 ✓ 8.4	Am 11003 ✓ 8.6
Ac 14157 ✓ 8.4	Ac 13465 ✓ 8.4
Ac 1694 ✓ 8.4 pl. poor badly fogged	Am 10950 ✓ 8.6
Am 3569 ✓ 8.5	Ac 13448 ✓ 8.4
Am 8533 ✓ 8.4	Ac 17096 ✓ 8.4
Ac 1638 ✓ 8.4	Ac 13301 ✓ 8.4
Am 3517 ✓ 8.4	Ac 16819 ✓ 8.4
Ac 14150	Ac 13224 ✓ 1h.

11:58 Interrupted

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1914phae.proj.10560

Wednesday March 15, 1916.

Estimates of brightness of var. +4° 4584.

Ac 13182
✓ 8.4? Rev. eqns.

Ac 8995
✓ 8.4

Ac 12609
✓ 8.4

Ac 15583
✓ 8.4

Am 10923
✓ 8.3

Am 10799
✓ 8.5

Ac 12549
✓ 8.1

Ac 8727
✓ 8.4

Ac 16755
✓ 8.5

Am 10672
✓ 8.5

Am 10814
✓ 8.4

Ac 15518
✓ 8.4

Ac 16478
✓ 9.5

Ac 8715
✓ 8.4? poor

Ac 12531.
✓ 8.4

Am 10507
✓ 8.5

Ac 16386
✓ 8.2

✓ Ac 15490
8.4

Am 10807
8.4

Ac 8699.
✓ 8.4

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1914phae.proj.10560

Wednesday March 15, 1916.

Estimates of brightness of var. +4° 4584.

ac15473 ✓ 8.2	am9561 ✓ 8.4
am10250. ✓ 9.1 very poor.	ac13220 ✓ 8.4
ac8611 ✓ 8.4	ac8562 ✓ 8.4 poor.
am10120 ✓ 8.1	ac15351 ✓ 8.4
ac15461 ✓ 8.4	am9518 ✓ t.p.
am10078 ✓ 8.4	ac15325 ✓ 8.4
ac8645 ✓ 8.4	am9492. ✓ 8.4
ac15375 ✓ 8.4	am11008 8.6
am9569 ✓ 8.4	ac16658 ✓ 8.4
ac15369 ✓ 8.4	am9458 ✓ 9.5 poor

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1914phae.proj.10560

Wednesday March 15, 1916.

Estimates of brightness of var. +4° 4584.

Ac 16647
✓ 8.3

Ac 15291
✓ 8.4

am 9331.
✓ 8.4

Ac 15263
✓ 8.4

Ac 7992
✓ 8.4

am 9323
✓ 8.4 fog

Ac 7838
✓ 8.4

am 9250
✓ 8.4

Ac 15235
✓ 8.4

Ac 7829
✓ 8.4

Ac 14491
✓ 8.5

am 9210
✓ 8.4

12:58

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1914phae.proj.10560

Tuesday. March 21, 1916.

Examination of Ac plates to determine variability of star near DM +17° 3168. [Print sent by Prof. E. E. Barnard.)

(marked on Am 3421)
(" " I #5842)

North

∴ Var. (1855) 17° 51ˢ + 17° 22.0

∴ — DM +17° 3168
— +17° 3169
+17° 3172.

Nebraska of

Nebraska of star ~~[illegible]~~ on:-

Ac 12559	Sept 13, 1911.
Am 1382	June 24, 1902
Am 598	Aug 30, 1900
Ac 9414	Apr. 13, 1908
Ac 8361	Mar. 18, 1907.
Ac 3518	Apr. 18, 1903
Ac 1855	Oct. 10, 1901
Am 8445	July 12, 1912
Am 3793	Aug. 17, 1905

Bright
~~Seen~~ on

Am 3421.	Mar. 30 1905.
~~Am 4884 — June 1, 1907.~~	
Ac 10524	May 25 1900
Ac 6280	Apr. 8, 1905
Ac 5053	July 13 1904
Am 2764	June 20, 1904

f

faint on

Ac 7420	Mar. 25, 1906.
Am 120	Aug. 26, 1899 (very ff)

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1914phae.proj.10560

Wednesday, March 22, 1916.

Ac plates – brightness of var. +4° 4584.

1:30-

am 6565 ✓ Smashed.	am 6369 ✓ 8.4
am 3813 ✓ 8.3	Ac 10530 ✓ 8.2
	140
am 1037 (broken) ✓ ~~8+~~ 8.4	
Ac 1789 (br) ✓ 9.3	
am 88 (br.) ✓ 8.4	
am 1597 (br) ✓ 8.4	
am 1503 (br) ✓ 8.4	
am 1271 (br) ✓ 8.4	
Ac 5062 (br) ✓ 8.4	
am 6669 ✓ 8.3	

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1914phae.proj.10560

Thursday, March 23, 1916.

Estimates of brightness of var. +4°4584.

12:45

End of plates measured North up.

Ac 16953 ✓ 8.4	Ac 95 (does not cover)
Ac 549 (mult. im) ✓ 8.3?	Am 131 (does not cover)
Am 1090 ✓ 8.4	Am 1022 ✓ 8.4
Am 5051 ✓ 8.3? (mult. im)	Am 2094 ✓ 8.4
Ac 848 ✓ 8.1	Am 2274 ✓ 8.4
Ac 416 (does not cover var)	Am 6157 ✓ 8.4
Ac 14150 ✓ 8.4 poor	Am 3211 ✓ 8.3
Am 4494 (br) ✓ t.p.	Ac 16457 ✓ does not cover region
Ac 4960 (br) ✓ 8.4	Am 6499 ✓ 8.1
Am 6470 (br) ✓ 8.4	Am 3699 (mult. image) ✓ 8.6?

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1914phae.proj.10560

Saturday April 15. 1916.

Estimates of brightness of var. +4° 4584.

10:22 All Plates Reversed. South up.

am8125	Ac2677
✓ 8.2 poor.	✓ 9.1 badly streaked.
Ac6572	am7130.
✓ 8.2	✓ 8.4
am811	Ac6990.
✓ 8.4	✓ 8.2
am5170	am7122
✓ 8.2	✓ 8.4
am8151	am7097.
✓ 8.4	✓ 8.2
am876.	am4421.
✓ 8.4	✓ 8.6
Ac5453.	Ac3741.
✓ 8.4	✓ 8.4
am5172	am2591.
✓ 8.3	✓ 8.3
am817	am4433
✓ 8.4? poor	✓ 8.4

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1914phae.proj.10560

Saturday April 15, 1916.

Estimates of brightness of var. +4° 4584.
South up.

ac 3788
✓ 8?

ac 14320.
✓ 8.4

am 3171
✓ 8.4

am 9110.
✓ 8.4

am 4942
✓ 8.4

am 3795.
✓ 8.3

am 5664.
✓ 8.3

ac 14442.
✓ 8.4

am 1462
✓ 8.4

am 3849.
✓ 8.3

ac 6486.
✓ 8.4

am 9133
✓ 8.4

ac 14307
✓ 8.4

am 3740.
✓ 8.4

ac 1750.
✓ 8.4

am 9049.
✓ 8.4

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1914phae.proj.10560

Saturday April 15, 1916.

Estimates of brightness of var. + 4° 4584 – South Up.

Am 8593	Ac 2954
✓ 8.4	✓ 8.3
Ac 14208	Ac 5604.
✓ 8.4	✓ 8.2
Am 3706	Am 11401
✓ 8.2	✓ 8.5 –
Ac 14221	Am 8480.
✓ 8.4	✓ 8.4
Ac 1745	Ac 14582 –
✓ 8.4	✓ 8.4
Am 3729.	Ac 16573
✓ 8.3	✓ 8.3
Am 8970	Ac 8988.
✓ 8.4	✓ 8.4
Ac 2911	Ac 1931.
✓ 8.4	✓ 8.4
Am 2133.	Am 2161.
✓ 8.4	✓ 8.3
Am 5016.	Am 4277.
✓ 8.2	✓ 8.4

11:10

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1914phae.proj.10560

Tuesday April 18, 1916.

Estimates of var. +4° 4584. Plates reversed. South up.

12— Ac 9662
✓ off plate.

Am 3976.
✓ 86

Am 164.
✓ 84

Am 11104.
✓ 84

Ac 9691.
✓ 84

Am 6176.
✓ 87

Am 1570.
✓ 83

Ac 1921
✓ 85

Am 6390.
✓ 84

Am 2716.
✓ 83

Am 7775
✓ 85

Am 4448.
✓ 82

Am 4287.
✓ 83

Am 2726.
✓ 82

Am 3898
✓ 87

Ac 3861
✓ 84

Am 9292
✓ 83

Am 4541
✓ 84

Ac 1879
✓ 84

Ac 3929
✓ 84

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1914phae.proj.10560

Tuesday April 18, 1916.

Estimates of var. +40 4584. Plate reversed

am 2808 ✓ 8.3	am 4821 ✓ 8.3
am 4932. ✓ 8.4	am 3004. ✓ 9.4
am 2867. ✓ 8.4	ac 10660. ✓ 8.4
am 4548 ✓ 8.2	am 4091. ✓ 8.3
ac 3941 ✓ 8.4	ac 2189. ✓ 8.2
am 2935. ✓ 8.6	am 5506 ✓ 8.2
am 4621. ✓ 8.2	am 181 ✓ 8.3.
ac 3995. ✓ 8.4	ac 14161 ✓ 8.4
am 4671. ✓ 8.4	ac 10071 60 from. nothing on plate.
am 2953. ✓ 8.3	am 5116. ✓ 8.4

12:35.

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1914phae.proj.10560

Thursday April 27. 1916.

Estimates of brightness of var. +4° 4584. South up.

10:35

am486.	am6571
✓ 8.4	✓ 8.7
ac12465	am7700
✓ 8.4	✓ 8.4? very poor.
ac9930	ac11895
✓ 8.3	✓ 8.4
am7280.	ac5150.
✓ 8.4	✓ 8.4
am535.	am1968
✓ 8.3 poor	✓ 8.4
am6423	ac5208.
✓ 9.4	✓ 8.3
am6532	ac8489
✓ Smashed in transit	✓ 8.4
am6551	ac1533
✓ Smashed.	+.f. (yellow?)
ac11742	ac5258
✓ 8.3	✓ 8.4
ac11779	ac6437
✓ 8.3	✓ 8.4

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1914phae.proj.10560

Thursday April 27, 1916.

Estimates of brightness of var. +4° 4584. South ups.

am5498 ✓ 8.4	am7683. ✓ 8.4
ac6494 ✓ 8.4	am7258. ✓ 8.4
am8646 ✓ 8.4	am7652. ✓ 8.4
am6599. ✓ 8.5	am624. ✓ 8.2
am6614. ✓ 8.5	ac4165. ✓ 8.4
ac11899. ✓ t.p.	ac916. ✓ 8.4
am7178. ✓ 8.4	ac5302 ✓ 8.4
ac12417 ✓ 8.3	ac941. ✓ 8.3 (mult in.)
ac12451 ✓ 8.4	am1416. ✓ 8.4
am7247 ✓ 8.3	ac6467. ✓ 8.4

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Thursday April 27, 1916.

Estimates of mar +4° 4584. South up.

am 5577. ✓ 8.3	ac 10037 ✓ 8.5
am 8661 ✓ 8.4 v.p.	am 7803 ✓ 8.5
ac 965 ✓ 8.4	am 3517 ✓ 8.4
am 16 ✓ 8.4	ac 1638 ✓ 8.4
ac 1547 ✓ 8.4	am 8533 ✓ 8.4
ac 977 ✓ (2'.)	am 3569 ✓ 8.4
ac 1502 ✓ 8.4	ac 1694 ✓ 8.4 v.poor
ac 1609 ✓ 8.4	ac 14157 ✓ 8.3
am 31621 ✓ 8.4	am 8545 ✓ 8.4
am 4207 ✓ 8.4	am 3600 ✓ 8.6

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Thursday April 27, 1916.

I Estimates of var. +4° 4584 South of.

ac 2905 ✓ 8.4	am 2289. ✓ 9.3
am 2120. ✓ 86	am 8681 ✓ 8.4
am 4270. ✓ 8.3	am 5690. ✓ 8.3
ac 3008. ✓ 8.4	am 8726. ✓ 8.4
am 4487. ✓ ~~9~~ 8.4	ac 3796. ✓ 8.4
am 2270. ✓ 9.1	ac 5136. 8.4
am 4956. ✓ 8.4	ac 10635. ✓ 8.3
ac 3612. ✓ 8.4? v.f.	ac 6878 ✓ 8.5
am 4381. 8.4	am 7058 ✓ 8.4
ac 3674. ✓ 8.5	ac 1735. ✓ 8.4? v.f.

11:25

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1914phae.proj.10560

Tuesday, February 27, 1917.

12 — While looking up discordant magns. in Poor Region Sculptor Sobieski, I found no. 68 to be a variable.

Approx position 18h 52.6 -1° 45'

		yellow	blue	Color Index
Bright on		Mc 6070	MD 6070	
Mc 5603.		10.5	<12.5	>2.0 magn.
	Faint on			
		Yellow	Blue	
5496	Mc 8501 (n.s.)	Mc 8519	MD 8519	Color Index.
5680.	B 27486	12.2	>13.4	<1.2. magn.

Variability confirmed by J.C.M and H.S.L.

Variability also shows on Yellow plates as follows

Bright on Mc 5524 Ft. on Mc 6070 8519.

Monday Mar. 5, '17.

10:—

Mc 5603

Seq.	plate			
17	2	v (no 68)	12.18	
v	3	18	12.18	
			12.18	

Mc 8501 var. n.s.

On Mc 8501, var n.s. Miss Leavitt estimated var as magn. and 1/2 fainter than 26. Range to be published as 12.2 to <16.0

Per Miss Leavitt. Mar. 7, '17.

(Using adopt magns for Seq. Obs. on yellow pl. =

Mc 5524. 9 4 v 9.52 9.42.
v 4 12 9.31

Range - yellow 94 — 12.2

Mc 8519 (18 52.6 - 1° 45 approx)

18 a 3 68 12.29
68 3 21 12.05
12.17

Mc 6070 13 3v 10.46
v 15 4 15 10.58
10.52

14 = v 10.3
4c 15

MD 8519 blue ~~15 2 v~~ 11.60 W.S. mean.
v 1 16 11.55 ~~n.s. 21 =~~
11.58 ~~12.86~~
13.4

MD 6070 ~~15 1 v~~ 11.60 n.s.
v 2 ~~1~~ 11.55 ~~<21 = 12.55~~
11.58 W.S. mean. 151 ~~12.55~~

11:30

1:30.

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1914phae.proj.10560

Saturday Mar. 3. 1917.

1 — While looking up disc. magns. in Coon Region Sect. Sol. I found star 383 variable of small range.

Faint on
B 45580
B 27486.
~~B 25430~~

Right on
MD 11054
MC 8501.
B 25430

~~Sequence~~
~~copy~~

383 = −2° 47 7.45. 18 40.2 −2 10 9.2.

Variability confirmed by Miss Leavitt. Variation small about 7 or 8 tenths of a magn?

Few comp. stars marked by Miss Leavitt on MC 8519.

blue.

B 25430 a 2 v 11.37 11.40 11.38
v 2 b

B 45580. c 2 v 12.08 11.77 11.92
v ½ d

~~B 27~~
B 27486 { c ½ v 12.08 11.77 11.92
v ½ d

MD 6070
a 2 v 11.37
v 2 b 11.40 11.38

On MD 8519 var. is about equal to b, = 11.6

Range on blue plates = 11.4 to 11.9

11.17 a = 148
11.60 b = 380 b
11.88 c = 385.
d = 380 a 11.87
} on MC 5524

Yellow.
MC 8519 b ½ v
v 3 c

~~MC 6070 a 3 v~~
~~v 1 b~~

MC 5524.
~~d 1 v~~
v 2 d

MC 8519 b 1 v 9.80 9.66
9.73 v 4 c

MC 6070 b 1 v 9.80 9.76 7.78
v 3 c

MC 5524
~~d Scratched~~ c 3 v
v 2 d

d 2 v 10.68 10.43 10.50
v 2 e

C. Star d = 383 10.38
b = 381 9.70
var = 383
c = 148 10.06
~~d = 378 10.99~~
e = 133 10.63
} on MC 5524

Range on Yellow plates = ~~to~~ 9.7 — 10.5

Magnitudes preliminary means from cards.

2 —

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1914phae.proj.10560

Friday April 20, 1917.

Var. R Persei. (marked on Mc4008 + 6905)

3:20 — (For mags used see Bk 19 : 78)

Ac 5377 ✓ 10.5	Ac 2987 ✓ 10.1
Ac 12886 ✓ 11.7	Ac 1378 ✓ 10.4
Ac 12708 ✓ = 11.7	Ac 664 ✓ 10.1
Ac 12138 ✓ 10.4	Ac 721 ✓ 10.1
Ac 10799 poor. ✓ ms. < 10.2	Ac 3118 ✓ 10.6
Ac 6946 ✓ 10.6	Ac 4317 ✓ 10.6 poor.
Ac 7821 ✓ 10.8	Ac 5331 ✓ 10.6
Ac 11923 ✓ 10.3	Ac 5709 ✓ 10.4
Ac 10651 poor fl. ✓ 10.6? Ft.	Ac 5781 ✓ 10.5
Ac 3345 ✓ 10.8	Ac 9124 ✓ 10.6

4—

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1914phae.proj.10560

Saturday April 21, 1917.

R Y Persei. Var.

12:10

Ac 12331
v 10.7

Ac 10933
v 10.6

Ac 6733
v 10.7

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1914phae.proj.10560

Monday April 23, 1917.

R J Persei 031646.

10 35

Ac 7402	Ac 1054
✓ 11.6? g	✓ 11.8
Ac 4551	Ac 17074
✓ 10.6	✓ 10.5
Ac 4035	Ac 18305
✓ 10.7	✓ 10.6
Ac 4139	Ac 2938
✓ 10.4	✓ 10.7
✓ Ac 3199	Ac 8023
10.6	✓ 10.5
Ac 3108	Ac 4542
✓ 10.4	✓ 10.5
Ac 2913	Ac 17785
✓ 10.4	✓ 10.7
✓ Ac 2235	Ac 7902
10.8	✓ g
Ac 2003	Ac 4487
✓ 10.8	✓ bds from
Ac 1291 from.	Ac 7862
n.s. faintest stars seen = 10.5	✓ 10.6

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1914phae.proj.10560

Monday April 23, 1917.

R V Persei 031646

ac 12776 ✓ 11.0	ac 15776 ✓ 10.5
ac 3970 ✓ loo from <10.3	Ac 9343 from. ✓ <10.9. g = ft. c.s seen.
ac 12746 ✓ 10.4	✓ ac 4398 11.0
ac4454 ✓ 10.4	ac 3435 ✓ 10.4
ac 3948 ✓ 10.9: from	Ac 12613 ✓ 10.7? very badly fogged, pinholes.
ac 7755 ✓ 10.8	ac 3376 ✓ 11.8
ac 4415 ✓ 10.7	ac 15722 ✓ 10.5
✓ Ac 15795 10.6	ac 7291 ✓ 10.6
ac 3864 ✓ loo from. soft star seen	ac 3299 ✓ 10.5
ac12665 ✓ 10.5	ac 12607 ✓ 10.1

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Monday April 23, 1917.

R J Persei 031646

Ac 680
11.6

Ac 12486.
m.s. Too poor.

Ac 4367
10.5

Ac 4262
10.7

Ac 7267
10.7

Ac 7254
10.8

Ac 558
Too poor. few stars

Ac 12338
10.7

Ac 15550.
10.6

Ac 7223.
Too poor. Trails make ident. uncertain

Ac 7260
Too poor. fogged.

Ac 504
10.4 ? poor.

Ac 16236
10.7

Ac 4180
10.8

Ac 13552
10.8

Ac 3009
10.6

Ac 579
10.8

Ac 3061
10.6

Ac 16164
10.7

Ac 3183
10.6

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Monday April 23, 1917.

R I Persei 0 31 6 46 -

Ac 3172
t.f. ft c.s. not seen

Ac 3150
too foggd

Ac 3075
t.f. foggd

Ac 3036
t.f. no ft. stars seen.

Ac 3255
10.8

Ac 3276
t.f.

Ac 4642
10.4

Ac 4705
10.4? poor

Ac 5159
10.8

Ac 5186
10.4

Ac 5232
10.4

Ac 3983 Sh. 3146
cracked, film peeled off in pos. of var. + c.s.

Ac 5267
ft. stars n. s.

Ac 5395
t.f.

Ac 5525
10.7

Ac 5566
10.7

Ac 5597
10.5

Ac 5631
10.7? c.s. ft.

Ac 5682
10.4

Ac 5737
10.4

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Monday April 13, 1917.

R Y Persei 031646

Ac 5773
✓ 10.6

Ac 5881
Throwaway.

Ac 5901
✓ 1f.

Ac 5925
✓ 10.6

Ac 5933
✓ 10.8

Ac 5979
✓ 10.6

Ac 5990
✓ 10.7

12:45

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1914phae.proj.10560

Wednesday April 23, 1917.

R 1 Persei

0 31 46.

950

Ac 6063
v 10.4

Ac 6114
v 10.7

Ac 6164
v 10.6

Ac 6191
v 10.4

Ac 6608
from pl. no ft. c.s. seen
<10.9?

Ac 6660
v 10.6

Ac 6695
v 10.4

Ac 6766
v 10.6

Ac ~~6808~~ 6784
10.8

Ac 6817
v 10.6

Ac 6842
Plate fogged.
v 11.6 ft c.s. from.

Ac 6883
v 10.4 Im larger than c.s.

Ac 4287. (In sl. 277)
v 10.4

Ac 564 Iss? (sl. 187)
v 10.4

Ac 12688 (sl 3691)
v tf.

Ac 1314
v tf.

Ac 1310
v 10.7 from

Ac 1317.
v 10.7

Ac 1327
v 10.5? ~~no~~ f c.s. from

Ac 1336
v tf.

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1914phae.proj.10560

Wednesday April 25, 1917.

R I Persei. 03,16 46.

Ac 1383
tf.

Ac 1384
10.4

Ac 1393
10.6? poor

Ac 1741
film badly damaged. tf.

Ac 1853
10.6

Ac 2013 fogged
to 10.6?

Ac 2075
10.7

Ac 2219
10.8

Ac 2261
10.6

Ac 2306
10.4

Ac 2743
10.5

Ac 1290
10.4? poor.

Ac 1294
< 10.5 c.s. g n.s.

Ac 1301
tf.

Ac 1309
10.6

Ac 1312
n.s. tf.

Ac 1182
10.7

Ac 1225
bl. thrown away.

Ac 1281
tf.

Ac 1282
nothing on pl.

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Wednesday April 25, 1917.

R Persei 031646

Ac 1283 melting on pl.	Ac 6943 ✓ 10.6
Ac 1284 ✓ t.p.	Ac 7097. ✓ t.p.
Ac 1030 ✓ 10.7	Ac 7100 ✓ ws t.p.
Ac 106 10.2 faint c.s. sem. t.p. ✓	AC 7116 ✓ 10.6
Ac 107 ✓ 10.6	Ac 7178 ✓ 10.6
Ac 959 ✓ 10.7	Ac 7187 ✓ 10.7
Ac 1006 ✓ ~~10.1~~ 10.6	Ac 7195 ✓ 10.8
Ac 1007 faint ✓ < 10.9	✓ Ac 8080 10.7 faint
Ac 1015 ✓ 10.6	Ac 8167 ✓ 10.6
Ac 163 ✓ 10.7	Ac 8194 t.p.

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1914phae.proj.10560

Wednesday April 25, 1917.

R Y Persei 03164b.

Ac 8261
✓ 10.6

Ac 8317
✓ 10.6

Ac 8774
✓ ws tf.

Ac 8894
✓ 10.7

Ac 8826
✓ tf.

Ac 8980.
✓ 10.4

Ac 8991
✓ 10.4

Ac 9015
✓ 10.6

Ac 9068
✓ 10.5

Ac 9092
✓ tf.

Ac 9097
✓ tf. Ex. only 7m.

Ac 9109
✓ tf.

Ac 9136.
✓ 10.6

Ac 9164.
✓ 10.7

Ac 9179
✓ tf.

Ac 9187
✓ ws tf.

Ac 9098 (sl. 2739)
✓ tf.

Ac 9197.
✓ Pieces thrown away.

Ac 9235
✓ 10.6

Ac 9296
✓ 10.8

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1914phae.proj.10560

Wednesday April 25, 1917.

R J Persei. 0316 46

Ac 9354
~ t.p. ns

Ac 9717
10.6

Ac 9816
ns? < 10.5

Ac 9900
10.7

Ac 9940
10.8

Ac 10058
10.7

Ac 10074
10.7

Ac 10220
10.7

Ac 10250
10.6

Ac 10327 T'
10.4

Ac 10646
10.6

Ac 10713
< 10.9 ft. stars poor.

Ac 10763
10.6

Ac 10925
10.7

Ac 10994
10.4

Ac 11007
10.9

Ac 11022
10.7

Ac 11105
10.4

Ac 11129
10.6

Ac 11164 fo foms
+ f.

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Wednesday April 25, 1917

R I Perseï. 03h46

Ac 11193
✓ 10.5

Ac 11234
✓ 10.5

Ac 11267
✓ 10.5

Ac 11300
ws. < 11.5

Ac 11352
✓ 10.5

Ac 11441
✓ 10.5

Ac 11882
✓ tp.

Ac 12002
✓ 10.8

Ac 12028
✓ 10.4

Ac 12114
✓ 10.4

Ac 12194
✓ 10.5

Ac 12238
✓ 10.5

Ac 12240
✓ 10.7

Ac 12261
✓ 10.8

Ac 12267
✓ 10.7

Ac 12824
✓ tp

Ac 12966
✓ 10.5

Ac 13617
✓ 10.6

Ac 14203
✓ ⌈10.5 plate very poor.

Ac 14427
✓ 10.5

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1914phae.proj.10560

Wednesday April 25. 1917.

R I Persei 031646-

Ac14488
. 10.5

Ac14515
✓ 11.5

Ac14523
✓ 10.7

Ac14604
✓ 10.6

12

12:55 Ac14614
✓ 10.5

Ac14689
✓ 10.6

Ac14714
✓ 10.7

Ac14740
✓ 10.6

Ac14750
✓ 10.8: fuzzy

Ac14815
✓ 10.7

Ac14895
✓ 10.7

Ac15435
✓ ms. tf.

Ac15874.
✓ 10.5

Ac15897
✓ 10.5-6

Ac15935
✓ 10.6

Ac15943
✓ 10.3

Ac15960
✓ 10.6

Ac1280 (cl 3157)
✓ ms tf.

Ac2317
✓ 10.7

Ac1357
✓ 10.4

1:15

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1914phae.proj.10560

Friday April 27. 1917.

RT Persei 03 16 46

8:15

Ac 16855
✓ 10.4? poor.

Ac 16891.
✓ 10.4

Ac 16926
✓ 10.7

Ac 16805
✓ 10.6

Ac 16914
✓ 10.6

Ac 16970
✓ 10.4

Ac 17027
✓ 10.7 poor

Ac 17044
✓ <11.8?

ft c.s. poor. } var. ft. }

Ac 17148
✓ 10.7 poor

✓ Ac 17240
n.s. bad poor

Ac 17342.
✓ Solo not covers neg.

Ac 17399
✓ 10.5

Ac 17477
n.s. on edge bad poor
✓

Ac 17870
✓ 10.6? v.p.

Ac 17945
✓ 10.4

Ac 17977
✓ 10.4

✓ Ac 18044
11.7

Ac 18106
11.6
✓
✓

Ac 18142 badly fogged
n.s. bad poor.

✓ Ac 18242 poor
10.7? c.s.g n.s.

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1914phae.proj.10560

Friday April 24, 1914.

R J Persei 031646.

Ac 18274. fuzz
m.s. < 10.5

Ac 18400
10.4

Ac 18549
10.7

Ac 18653
10.6

Ac 17183
10.4

Ac 11116
10.6

Ac 6529
tf.

Ac 11078
tf

Ac 11849
10.7

Ac 12588
10.6

Ac 12838
11.0

Ac 11937
10.6

Ac 8879
10.6

Ac 11364
10.5? fuzz

Ac 11293
10.8

Ac 11169
10.7

Ac 11165
tf (for focus?)

Ac 11824
10.6

Ac 10023
tf.

Ac 10733
m.s. tf.

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Friday April 27, 1917.

R J Perseï 031646

Ac9997
✓ 104

Ac 7897
ns. t.f.

920

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Saturday April 28, 1917.

R J Persei 031646 South up

1135

Ac 5990 ✓ 10.5	Ac 5631 ✓ 10.8? faint
Ac 5979 ✓ 10.7	Ac 5597 ✓ 10.6
Ac 5933 ✓ 10.7	Ac 5566 ✓ 10.7
Ac 5925 ✓ 10.6	Ac 5525 ✓ 10.7
✓ Ac 5901 t.f.	Ac 5395 ✓ t.f.
Ac 5881 thrown away	Ac 5267 ✓ 10.8
Ac 5773 ✓ 10.7	Ac 5232 ✓ 10.4
Ac 5737 ✓ 10.7	Ac 5186 ✓ 10.4
Ac 5682 ✓ 10.4	Ac 5159 ✓ 10.7? c.s.g. n.s. for low ft
Ac 5631	Ac 5035 ✓ t.f. fogged

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Saturday, April 28, 1917.

R J Persei 03h 16m 46s South 1°.

Ac 4705 ✓ 10.5? poor	Ac 17074 ✓ 10.6
Ac 4642 ✓ 10.4	Ac 1054 ✓ 11.7
Ac 3276 ✓ t.f.	Ac 1291 ✓ t.f.
Ac 3255 ✓ 10.5	Ac 2003 ✓ 10.8
Ac 3036 ✓ t.f.	Ac 2235 ✓ 10.8
Ac 3075 fogged. ✓ t.f.	Ac 2913 ✓ 10.4
Ac 3150 ✓ t.f.	Ac 3108 ✓ 10.7
Ac 3172 fogged. ✓ t.f.	Ac 3199 ✓ 10.6
Ac 2938 ✓ 10.4	Ac 4139 ✓ 10.4
Ac 18305 ✓ 10.7	Ac 4035 ✓ 10.7

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1914phae.proj.10560

Saturday April 28, 1917.

R J Peraii 031646 South wfr.

Ac4551 ✓ 10.7	Ac3118 ✓ 10.7
Ac7402 Im dbl. ✓ 11.7	Ac71 ✓ 10.7
Ac6733 ✓ 10.7	Ac664 ✓ 10.7
Ac10933 ✓ 10.7	✓ Ac1378 10.6
Ac12331 ✓ 10.7	✓ Ac2987 10.8
✓ Ac9124 10.7	Ac3345 ✓ 10.8
Ac5781 ✓ 10.5	Ac10651 ✓ 10.7
Ac5709 ✓ 10.5	~~Ac11923~~ Ac7821 ✓ 10.8
Ac5331 ✓ 10.4	Ac6946 ✓ 10.6
Ac 10.6	Ac10799 ~ 10.7? c.s. g too fw.

12 25

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1914phae.proj.10560

Saturday April 26, 1917.

R J Persei 031646 South up.

1:10

Ac 3983.	Ac 14488
✓ film off fd.	✓ 10.5
Ac 12138	Ac 14427
✓ 10.6	✓ 10.5
Ac 12708	Ac 14203 badly fogged.
✓ 11.7	✓ <10.5 t.f.
Ac 12886	Ac 13817
✓ 11.7	✓ 10.4
Ac 14714	Ac 12966
✓ 10.7	✓ 10.7
Ac 14689	Ac 1015
✓ 10.7	✓ 10.7
✓ Ac 14614	Ac 1007 poor
10.6	✓ <11.1 ?
Ac 14604	Ac 1006
✓ 10.4	✓ 10.7
Ac 14523	Ac 959
✓ 10.5	✓ 10.7
Ac 14515	Ac 107
✓ 11.5	✓ 10.5

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1914phae.proj.10560

Saturday April 28, 1917.

R Y Persei 031646 South of.

Ac 106 ✓ 10.5	Ac 1301 ✓ t.f.
Ac 1030 ✓ 10.5	✓ Ac 1294 < 10.7 . poor.
✓ Ac 1284 t.f.	Ac 1290 ✓ 10.4
✓ Ac 1283 t.f.	Ac 2743 ✓ 10.6
✓ Ac 1282 t.f.	Ac 2306 ✓ 10.4
Ac 1281 ✓ t.f.	Ac 2261 ✓ 10.7
Ac 1225. ✓ Thrown away.	Ac 2219 ✓ 10.8
Ac 1182 ✓ 10.9	Ac 2075 ✓ 10.7?
Ac 1312. ✓ v.s. t.f.	Ac 2013 ✓ 0 t.f.
Ac 1309 ✓ 10.5	Ac 1853 ✓ 10.7

D 145

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1914phae.proj.10560

Monday April 30, 1917.

R1 Persei D31646 South ufr.

q 50

Ac 3183 ✓ 10.6	Ac 16164 ✓ 10.6
Ac 3061 ✓ 10.5	Ac 579 ✓ 10.8
Ac 3009 ✓ 10.7	Ac 12552 ✓ 10.7
Ac 4180 ✓ 10.8	Ac 16236 ✓ 10.7
Ac 504 ✓ 10.4	Ac 7260 ✓ t/p. very badly fogged. ft c.s. nf scan
Ac 7223 ✓ t/p.	Ac 15550 ✓ 10.7
Ac 12338 ✓ 10.7	Ac 588 too near edge
Ac 7254 ✓ 10.6	Ac 7267 ✓ 10.7
Ac 4262 ✓ 10.7	Ac 4367 ✓ 10.6
Ac 12486 fogged ✓ t/p.	Ac 680 ✓ 11.7

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Monday April 30, 1917.

R Persei 031646 South up.

Ac12607	Ac12665
v 10.7	v 10.5
Ac3299	Ac3864
v 10.4	v ns. th.
Ac7291	Ac15795
v 10.7	v 10.7
Ac15722	Ac4415
v 10.5	v 10.4
Ac3376	Ac7755
v 11.7	v 10.7
Ac12613	Ac3948
v 10.7	v 11.0 floor
Ac3435	Ac4454
v 10.4	v 10.4
Ac4398	Ac12746
v 10.8	v 10.4
Ac7343	Ac3975
v 10.6	v th.
Ac15776	Ac12776
v 10.7	v 11.2

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Monday April 30, 1917.

R Persei 031646 South nfp.

Ac 7862 ✓ 10.6	Ac 12238 ✓ 10.4
Ac 4487 ✓ 10.7? c.s. 9" n.s.	Ac 12194. ✓ 10.7
Ac 7902 n.s. tfp.	Ac 12114 ✓ 10.4
Ac 12785 ✓ 10.8	Ac 12028. ✓ 10.5
Ac 4542 ✓ 10.7	Ac 12002 ✓ 10.7
Ac 8023 ✓ 10.7	Ac 11882 ✓ tfp. near edge
Ac 12824 badly fogged ✓ 10.4? nfp.	Ac 11441 ✓ 10.7
Ac 12267 ✓ 10.7	Ac 11352 ✓ 10.6
Ac 12261 ✓ 10.7	Ac 11300 ✓ <11.5
Ac 12240 ✓ 10.7	Ac 11267 ✓ 10.6

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1914phae.proj.10560

Monday April 30, 1917

R J Persei 031646 South nfs.

Ac 11234
10.6

Ac 11193
10.7

Ac 11164
tf.

Ac 11129
10.5

Ac 11105
10.4

Ac 11022
10.7

Ac 11007
11.1

Ac 10994
10.4

Ac 10925
10.7

Ac 10763
10.7

Ac 10713
<11.1

Ac 10646
10.4?

Ac 10327. T'
10.5

Ac 10250
10.7

Ac 10220
10.6

Ac 10074
10.7

Ac 10058
10.7

Ac 9940
10.8

Ac 9900
10.7

Ac 9816
10.4? v.f. Shals.

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1914phae.proj.10560

Monday April 30, 1917.

R Persei 031646 South nfs.

Ac9714 t'
✓ 10.6

Ac9354
✓ t.fr. unevenly fogged.

Ac1317.
✓ 10.7

Ac1315
✓ 10.7 poor

Ac1314
✓ t.fr. n.s.

Ac12688
✓ 10.7 scratched.

Ac 564
✓ 10.8

Ac6883
✓ 10.7

Ac6842
✓ 11.4? poor

Ac6817
✓ 10.7

Ac6784
✓ 10.7

Ac6766
✓ 10.5

Ac6695
✓ 10.4

Ac6660
✓ 10.6

Ac6608
✓ <11.1 poor.

Ac6191
✓ 10.4

Ac6164
✓ 10.3 var poor.

Ac6114
✓ 10.7

Ac6063
✓ 10.4 film spotted

Ac9296
✓ 10.8

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Monday April 30, 1917.

R J Persei 031646 South ref.

Ac 9235	Ac 9015
✓ 10.7	✓ 10.5
Ac 9197.	Ac 8991
✓ thrown away.	✓ 10.6
Ac 9187	Ac 8980
✓ tf.	✓ 10.4
Ac 9179	Ac 8826
✓ tf.	✓ tf.
Ac 9164	Ac 8894
✓ ? 10.6	✓ 10.7
Ac 9136	Ac 8774
✓ 10.8	✓ tf.
Ac 9109	Ac 8317
✓ 10.7? badly fogged	✓ 10.6
Ac 9097	Ac 8261
✓ tf.	✓ 10.7
Ac 9092	Ac 8194
✓ tf.	✓ tf.
Ac 9068	Ac 8167
✓ 10.7	✓ 10.6

115

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Tuesday, May 1, 1917.

R Persei 03146 South up.

8;10

Ac9098
✓ t.p. ft. c.s not seen

Ac4287
✓ 10.4

Ac8080
✓ 10.8 v.f.

Ac7195
✓ 10.7

Ac7187
✓ 10.7

Ac7178
✓ 10.6

Ac7116
✓ 10.8

Ac7100
✓ t.p.

Ac7097 badly fogged.
✓ 10.4? v.f.

Ac6943
✓ 10.7

Ac1741
film spoiled

Ac1393
✓ 10.4? foggy

Ac1384
✓ 10.4

Ac1383
✓ t.p.

Ac1336
✓ t.p.

Ac1327
✓ t.p.

Ac11923
✓ 10.7 foggy

Ac7897 T
✓ short exp.

Ac9997
✓ 10.5

Ac10730
✓ ns c.s low ft.

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Tuesday May 1. 1917.

R Y Persei 031646 South up.

Ac 10023 ✓ t.f.	Ac 18653 ✓ 10.7
Ac 11824 ✓ 10.7	Ac 18549 ✓ 10.7
Ac 11165 ✓ t.f.	Ac 18400 ✓ 10.4
Ac 11169 ✓ 10.7	Ac 18274 ✓ t.f.
Ac 11293 ✓ 10.6	Ac 18242 ✓ 10.7
✓ Ac 11364 10.7	Ac 18142 badly fogged. ✓ ns t.f.
Ac 8879 ✓ 10.6	Ac 18106 ✓ 11.7
✓ Ac 11937 10.7	Ac 18044 ✓ 11.6
Ac 12838 ✓ 10.8	Ac 17977 ✓ 10.7
Ac 12588 ✓ 10.7	Ac 17945 ✓ 10.4

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Tuesday May 11, 1917.

R I Persei 03 16 46 South pf.

Ac17870
✓ 10.7? poor.

Ac16805
✓ 10.6

Ac17777
✓ t.f.

Ac5377
✓ 10.6

Ac17379
✓ 10.6

Ac17183
✓ 10.4

Ac17342
✓ does not cover

Ac ~~13523~~ 11849
✓ 10.7

Ac17240
✓ t.f.

Ac11078
✓ t.f.

Ac17148
✓ 10.7 poor

Ac6529
✓ 10.7

Ac17044
✓ 11.8? v.f.

Ac9102
✓ t.f.

Ac17027
✓ 10.4

Ac11116
✓ 10.5

Ac16970
✓ 10.5

Ac163
✓ 10.7

Ac16914
✓ 10.6

Ac16926
✓ 10.6

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1914phae.proj.10560

Tuesday May 1, 1917

R J Persei 031646 Southrup.

Ac 16691
✓ 10.4

Ac 15960
✓ 10.5

Ac 15943
✓ 10.4

Ac 15935
✓ 10.7

Ac 15897
✓ 10.5

Ac 15874
✓ 10.6

Ac 15435
✓ t.f.

Ac 14895
✓ 10.7

Ac 14815
✓ 10.5

Ac 14750
✓ t.f.

Ac 14740
✓ 10.6

✓ Ac 1280
t.f.

✓ Ac 2317
10.8

✓ Ac 1357
10.5

✓ Ac 1685
10.4? from 915

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1914phae.proj.10560

Wednesday May 9, 1917.

R I Persei cont. I plates before 1899 031646

10 30

I ~~11677~~ 16965
✓ 10.8

I 11614
✓ 10.7

I 10967
✓ 10.6

I 21764
✓ 10.6

I 7958
✓ 10.4

I 7739
✓ 11.2

I 3269.
✓ 10.7

I 2071
10.6 ✓

I 5031
✓ 10.5

I 4929
✓ 10.6

I 4928
✓ 10.4

I 2185
✓ 10.6? n.f. on extreme edge

I 2106
✓ n.s. off edge

I 2566
✓ 10.6

I 2828
✓ does not cover.

I 2248
n.s. < 11.8 ✓

I 10251
✓ 10.6

I 2868
✓ 10.7

I 14202
✓ 10.6? from

I 2596
✓ does not cover

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1914phae.proj.10560

Wednesday May 9, 1917.

R 1 Persei. I plates.

I 4857
v t f.

I 4858
v t f.

I 11851
v 10.7

I 11703
v 10.6

I 7727
v 10.4

I 7681
v 10.7

I 5007
does not cover

I 3059
does not cover

10.55

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Thursday May 10, 1917.

10 — R I Persei 03 16 +6.

Examined two boxes of AC plates at 4+60, to find plates on which var. was ft..

12 —

1:10 Examined remaining boxes of A C plates at 4+60, to find R I Persei ft

2: —

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1014phae.proj.10560

Friday, May 11, 1917.

R I Persei. 031646.

10 25

(3+60)

Ac 17080
✓ 11.6

Ac 7181
✓ 11.6

Ac 7237
✓ 11.9

Ac 9716
✓ m.s. < 11.5

Ac 6809
✓ 11.7

Ac 3896
✓ < 11.5? plate rejected.

Ac 4619
✓ 11.7

Ac 16832
✓ < 11.6

Ac 18323
✓ 11.7

Ac 10124 plate faint in region of var.
✓ < 11.8?

Ac 10691
✓ 11.7

Ac 11367
✓ < 11.5 ft. trace, recov.

Ac 15996
✓ 11.7

Ac 4214 (br. slide 2864)
✓ 11.7

see also next page.

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1914phae.proj.10560

Friday May 11, 1917.

R Persei 03 16 46 South up.

Ac 15996
✓ 11.7

✓ Ac 11367
ns.? < 11.5

✓ Ac 10691
11.6

Ac 10124
✓ 11.7? fog

Ac 18323
✓ 11.7

Ac 16832
✓ < 11.5

Ac 4619
✓ 11.8

Ac 3896
✓ 11.6? fog

Ac 6809
c.s. fog ✓ ~~< 11.5~~ 11.7 ft

✓ Ac 9716
< 11.5

✓ Ac 7237
11.9

Ac 7181
✓ 11.6

~~Ac 4181~~ ↑
~~11.6~~

Ac 17080
✓ 11.7

✓ Ac 4214 br. slide 2864
11.7

11 05

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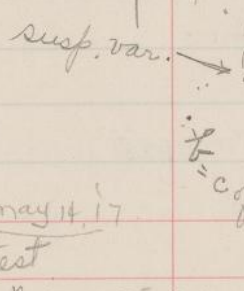
Saturday May 12, 1917.

2 —

Star "b" of U Gem. Sequence suspected of variability by Mr. Campbell.

Star +27° 1813 (8.7)

Marked on I 20060 and AC 8154.
about 130 AC plates examined, no Evidence of ~~Marked~~ variability seen. 8 + 30°



Monday May 14, '17
latest

8 plates (dates Jan. 1917 – Mar. 1917 inc) ~~measure~~ examined. Star does not ~~also~~ appear to be variable.

AI 15981 only plate here later on region price May 1, – the time the ~~star~~ susp. var. began to be bright. Examined, but too poor. c.s. "a" not seen. AC 18826 at 9 + 30 also examined, but star is off edge. ~~No~~ change in brightness ~~in~~ on plates later Oct. 30, 1898 – Jan. 9, 1906 (inc) The only plates on which there is the slightest indication of a change in brightness, as follows – AC 4082, AC 7318, AC 5896, AC 4520
AC 18840 examined. ~~&~~ No variation on this plate
O May 24, '17.

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Monday May 14, 1917.

* RW Monocerotis 06 29 08. Magus. iii 92.73.
marked on mc 7841.
also dup. chart.

2—

✓ am 2295 8.7	✓ am 2386 8.9
✓ am 717 9.0	✓ am 2444 t.f.
✓ am 726 9.1	✓ am 1723 (br. sl. 2711) 8.8
✓ am 1108 8.7	✓ am 3055 8.9
✓ am 1559 8.7	✓ am 3164 8.8
✓ am 1580 8.9	✓ am 3192 8.9
✓ am 1683 8.9	✓ am 3209 8.9
✓ am 1705 8.7	✓ am 3292 8.9
✓ am 1810 8.7	✓ am 3310 8.7
✓ am 2366 8.9	✓ am 3366 8.9

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1014phae.proj.10560

Monday May 14, 1917.

R W Monoc. 06 7908

✓ am 3880 8.9	✓ am 5496 8.9 Im. poor
✓ am 3385 8.8	✓ ac 5599 8.7
✓ am 4038 9.0	* ac 5658 8.7
✓ am 4152 8.7	✓ ac 5797 8.7
✓ am 4586 8.9	✓ ac 5893 8.9
✓ am 4668 8.9	✓ am 11456 9.1
✓ am 5248 8.7	✓ ac 18778 9.0
am 5275 useless	✓ ac 18766 8.7
✓ am 5480 8.7	

* Assumed to be wrong number as ac 5658 ident at 7"-15°
Ident. at -4.5; comes variable.

* C.S. "h" is partly superposed on var. on AC + AM plates, making observations difficult. Var. appears elongated on this account, while C.S. are circular.

y 30

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Wednesday ~~Tuesday~~ May 16, 1917.

R W Mono. 062908.

10 —

✓ ac 6065 9.1	✓ ac 7118 8.7
✓ ac 6212 8.7	✓ ac 7157 +f.
✓ ac 6448 8.9	✓ ac 7221 9.1
✓ ac 6776 ~~8~~ 8.7	✓ ac 7238 8.7
✓ ac 6871 8.7	✓ ac 7292 9.1
✓ ac 6945 8.7	✓ ac 7300 8.7 . v. f
✓ ac 7065 8.7.	✓ ac 7329 8.7?
✓ ac 7091 9.1	ac 6013 +f.
✓ ac 7098 8.9	✓ ac 7329 9.1
ac 7118	am. changed June 25, '17.
Interrupted to select a new c.s.	* ~~ac~~ 4582 8.9 10:30

* Assumed to be wrong plate number as AC4582 ident at 4.8 +45.0

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Thursday May 16, 1917.

R W Monoc. 062908

10 5"

✓ Ac 1349 8.6	✓ Ac 2309
✓ ~~Ac~~ Am 178 8.6	✓ Ac 2335 t.p.
✓ Am 178 8.7 poor. c.s. "a" and "c" partly sup on one another	✓ Ac 2390 9.1
✓ Am 187 8.7	✓ Ac 2493 8.1 Im poor, pl. fogged.
Am 269. "Too badly broken to be mended."	✓ Ac 2931 8.1
✓ Am 315 8.6	✓ Ac 2953 8.8
✓ Am 408 8.7	✓ Ac 3225 8.1
✓ Ac 1894 8.7	✓ Ac 3284 8.1
✓ Ac 2057 8.1	✓ Ac 3305 8.1
✓ Ac 2174 8.9	✓ Ac 3320 8.1 Interrupted 11:20

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1914phae.proj.10560

Thursday May 17, 1917.

Scale R. R. W. Mona. 06 29 08

11.35 d^2 and h^2 added to sequences, between d + e, and h' + k respectively.

	mc 7841 sc 1	mc 7841 sc 2	P.C. sc 2			P.C. sc 2
b	B. 52		q	9.7	-1.24	10.7
a	54 49		10.1	10.2 10.15 ± 0	-1.38	10.9
d	54 57		10.6	10.5 10.55 01	1.34	11.2
d^2	67 0 6.3		+h.	11.1 11.1 a	—	11.8
e	6.3 66		q	11.4 11.4 a	1.51	12.1
f	6.4 67		qf	11.4	1.52	12.3
g	7.1 7.4		q	12.1	2.01	12.6
h	7.4 7.7		qf	12.6 12.6 12.60	2.04	13.2
h'	7.8 8.1 7.90 22 7.7		+h.	12.8	1.79	sup.
h^2	8.2 8.5 8.40 ± 8.3			13.1 13.00 ± 12.9		13.7?
k	8.8 9.1 9.15 ± 0 9.2			13.4 13.55 2 1 13.7	1.86	m.s.
l	9.4 9.7 9.65 ± 0 9.6			? ? .		

Har Inn.

	mc 7841	mc 4222	mc 4259	Mean.	Diff. beter. Sc. Rdgs adopt magn. 9a:73	curr. Rdg.	magn.
b	.	.	.				
a	52	57	57	5.53 3 22	+3.24	3.22	8.75
d	57	6.5	B.	6.10 ± 4 .	3.11	3.15	9.25
d^2	6.3	6.6	6.5	6.47 3 1 0		3.11	9.58
e	6.6.	6.8	6.7	6.7 0 ± 1 0	3.19	3.07	9.77
f	6.7	7.1	6.7	6.83 ± 3 1	3.05	3.04	9.87
g	7.4	7.25	7.1	7.25 2 0 1	2.84	2.98	10.23
h	7.7	7.80	8.1	7.87 3 1 2	2.77	2.87	10.74
h'	7.90	8.25	8.15	8.10 20 15 05	2.91	2.82	10.92
h^2	8.40	8.45	8.40	8.42 02 03 02		2.75	11.17
k	9.15	9.5	9.30	9.32 17 18 02	2.52	2.48	11.80
l	9.65	9.8	9.9	9.78 ± 0 1	2.29	2.34	12.12

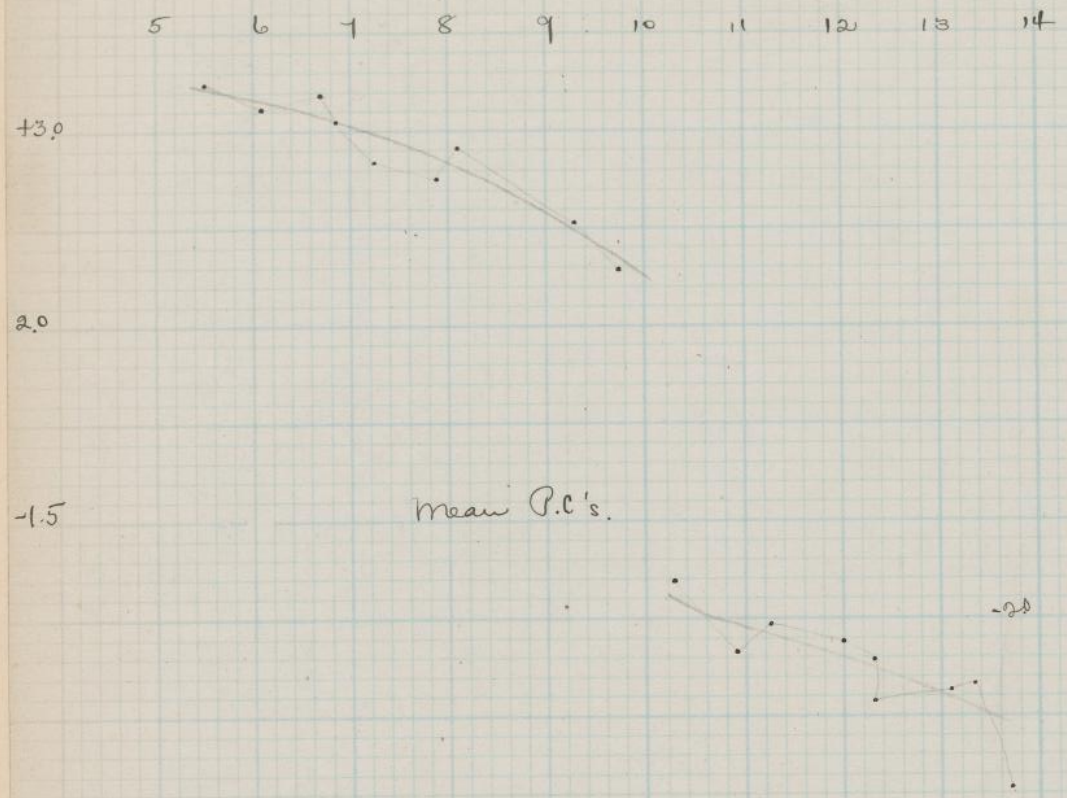
P.C.

	mc 7841	h^2	k^2	Mean P.C.	Diff.	curr. Rdg.		Mean st. Sm. + P.C.	
b	10.2	10.2	10.4	10.27 ± 1 1	-.181	-1.91	8.36	8.36	a
a	10.9	10.7	11.2	10.93 0 ± 3	2.16	-2.03	8.90	8.82	01 08
d	11.2	11.1	11.4	11.23 0 1 2	2.02	-2.08	9.15	9.20	05 03
d^2	11.8	11.3	11.7	11.60 2 3 1		-2.14	9.46	9.52	.6 02
e	12.1	11.8	R	12.00 1 ± R	2.11	-2.20	9.80	9.78	03 02
f	12.3	R	R	12.3 a . .	2.42	-2.24	[10.06]	9.87	a .
g	12.6	12.7	12.4	12.50 3 1 1	2.21	-2.24	10.06	10.23	a .
h	13.2	12.7	13.4	13.10 1 ± 3	2.36	-2.41	10.69	10.74	a .
h'	sup.	13.3	13.4	13.35 . 1 0	2.34	-2.46	10.89	10.92	a
h^2	13.7?	13.4	13.5	13.53 2 1 0		-2.50	11.03	11.17	a
k	m.s.	13.7?	m.s.	13.7? a .	2.86	.	.	11.80	a
l								12.12	a .

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Mean Sc. Rd'gs plates Mc 4222, 4259, 1841.

RW Monoc. 063908. For add. stars. 02:180.



12:20

1914phae.proj.10560

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Thursday May 17. 1917.

RW Monoc. 06 7908.

d[2] and h[2] meas. with seq.

mc 4222.

	b	B.	
	a	5.4 5.7	10.2
O.K.	d	6.2 6.5	10.7
	d[2]	6.3 6.6	11.1
	e	6.5 6.8	11.3
	f	6.8 7.1	11.9
	g	7.1 7.4 7.25 2 1 7.1	hazily sup.
	h	7.6 7.9 7.80 1 1 7.7	12.2
	h[1]	8.3 8.4 8.25 2 1 8.1	12.7
	h[2]	8.2 8.5 8.45 1 0 8.4	13.3
	k	9.5	13.4
	l	9.8	13.7?

mc 4259.

	b	B.	10.4
	a	5.4 5.7	11.2
	d	B.?	11.4
	d[2]	6.2 6.5	11.7
	e	6.4 6.7	scr.
	f	6.4 6.7	pretty sup.
	g	6.8 7.1	12.4
	h	7.8 8.1	13.4
	h[1]	7.9 8.2 8.1 8.15 0 1	12.4
	h[2]	8.2 8.5 8.3 8.40 1 1	13.5
	k	8.9 9.2 9.4 9.30 1 1	n.s.
	l	9.9	

12: 20

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1914phae.proj.10560

Friday May 18, 1917.

R W Monoc. 062908.

9:30

Ac 4587
t.f. badly fogged.

✓ Ac 4631
8.6

✓ Ac 4713
8.7

✓ Ac 4721
8.7

Ac 4757
t.f.

✓ Ac 4785
8.7

✓ Ac 5269
88

✓ Ac 5371
8.8

✓ Ac 5493
8.7

✓ Ac 5500
8.7

✓ Ac 2309 ~~2960~~
10.0

✓ Ac 3447
8.7? n.f. tm. out of focus

✓ Ac 3449
9.1

✓ Ac 3905
8.6 fm

✓ Ac 4094
8.7

✓ Ac 4263
8.7

✓ Ac 4434
8.7

✓ Ac 4519
9.1

✓ Ac 63
8.7

✓ Ac 111
10.5 poor.

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1914phae.proj.10560

Friday May 16, 1917.

Arv Monoc. 06 29.8

✓ Ac 152 8.1	✓ Ac 1101 8.1
✓ Ac 219 8.1? poor.	✓ Ac 1132 8.1
✓ Ac 256 8.1	Ac 1142 t.f.
✓ Ac 499 9.1	✓ Ac 1216 8.8
✓ Ac 552 8.1	✓ Ac 1232 8.1
✓ Ac 613 8.1	✓ Ac 1270 8.8
Ac 652 (Bl. 71) missing from stack	✓ Ac 1272 8.1 Sm. poor
✓ Ac 719 8.9	✓ Ac 1328 8.1
✓ Ac 763 8.1	✓ Ac 1369 9.1
✓ Ac 1074 t.f.	Ac 1374 t.f. Few plates on fl.

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1914phae.proj.10560

Friday May 18, 1917.

R W Monroe. 0629.8

✓ ac 1779 8.1	✓ am 5885 8.8
✓ Ac 1793 8.1	✓ am 5936. 8.8 v.f.
✓ Ac 1819 8.1	✓ am 5939 9.1
Ac 14634 t.f. Im. trailed Trails diff. on comp. stars.	✓ ~~am 5955~~ am 6006 100
✓ Ac 14660 8.1	✓ am 6630 9.0
✓ Ac 14752 8.1 badly fogged.	✓ am 6721 8.1
✓ Ac 14800 ~~Ac 1~~ 8.1	✓ am 6754 8.1?
✓ Ac 14816 8.1	✓ am 6783 9.0
✓ Ac 14967 8.1	✓ am 7893 8.1
✓ am 5853 8.8	✓ am 7924 8.1

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1914phae.proj.10560

Friday May 18, 1917.

R W Monoc. 06 7908

✓ am 7991 8.7	✓ ac 10941 ~~8~~ 8.7
✓ am 8018 8.7	✓ ac 10995 8.9
✓ am 8741 9.1? fog.	✓ ac 11071 9.1
✓ am 8805 8.7	✓ ac 11227 8.8
am 9289 does not cover	✓ ac 11388 9.0
✓ am 9657 8.7	✓ ac 12045 9.0
✓ am 9503 8.7	✓ ac 120621 9.0
✓ am 9508 8.7	✓ ac 12099 8.7 fog.
✓ am 10334 8.8	✓ ac 12108 8.7
✓ ac 11088 8.7	✓ ac 12196 8.7

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1914phae.proj.10560

Friday May 18, 1917.

RW Monoc. 062908.

Ac 12230
8.8

Ac 12296
8.8

Ac 12323
8.7

Ac 12361 (foufocus)
t/p:

Ac 12668
8.7

Ac 12762
8.7

Ac 13024
9.3

Ac 13299.
8.6 foc

Ac 13353
8.7

Ac 13423
8.8

Ac 13529
8.7

Ac 13573
8.8

Ac 13581
8.7

Ac 13589
9.0

Ac 13615
10.4

Ac 13690
8.7

Ac 13711
8.7

Ac 13768
9.1

Ac 13818
t/p [Focus pl)

Ac 13877
8.7

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1914phae.proj.10560

~~Today~~ Tuesday May 22, 1917.

R W Monoc. 063908

11:45

✓ Ac 14461 8.7	✓ Ac 9726 9.1
✓ Ac 14558 8.7? v.f.	✓ Ac 9853 8.9
✓ Ac 10325 8.7	✓ Ac 9934 ~~8~~ 9.0
Ac 9181 ms. t.f.	✓ Ac 9980 8.9
✓ Ac 9205 8.7	✓ Ac 10005 8.7
✓ Ac 9244 9.0	✓ Ac 10093 9.1
✓ Ac 9253 8.7	✓ Ac 10134 9.0
✓ Ac 9307 9.1	Ac 10148 t.f. Focus.
✓ Ac 9359 9.2	✓ Ac 10221 9.0
✓ Ac 9373 9.1	✓ Ac 10258 9.0

12:05

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1914phae.proj.10560

Wednesday May 28, 1917.

R W Mono. 063908.

9:35

✓ Ac 10206
9.1

✓ Ac 10319
8.9

✓ Ac 7865
8.7

✓ Ac 7977
8.7

✓ Ac 8103
8.7

✓ Ac 8213
8.7

Ac 8309.
t.p.

✓ Ac 83~~87~~ 86
8.7

Ac 8845
t.p. Ter plais on pl.

✓ Ac 8883
8.7

✓ Ac 9025
8.7

✓ Ac 9113
8.7

✓ Ac 9139
8.8

Ac 18402.
~~8.7~~ t.p.

✓ Ac 18442
8.7

✓ Ac 18535
8.7

Ac 18611.
Does not cover region.

✓ Ac 18693
8.8

✓ Ac 18735
9.1

✓ Am 10329 (h. cl. 4163)
10.5[6]

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1914phae.proj.10560

Wednesday May 23, 1917.

R W Monoc. 06 29 08

✓ am 10473 8.7	✓ ac 16951 8.7
✓ am 10531 8.7	✓ ac 16989 8.7
✓ am 11314 8.7	✓ ac 17120 9.4
✓ am 11164 8.8	✓ ac 17159 tr
✓ am 11794 8.7	✓ ac 17257 9.1
✓ ac 15751 10.4	✓ ac 17274 9.1
✓ ac 15777 8.7	✓ ac 17412 9.3? fog. badly fogged.
✓ ac 15807 8.9	✓ ac 17523 ~~9.0~~ 8.7
✓ ac 15906 8.9	✓ ac 17923 9.1
✓ ac 16128 9.0	✓ ac 18081 8.7

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1914phae.proj.10560

Wednesday May ~~28~~ 23, 1917.

RW Mono. 063908.

✓ ac 18112
8:1

✓ ac 18306
m.s. < 10.7.

✓ ac 18008 (br.)
8.7

✓ ac 16294
9.2

✓ ac 8327
< 10.7 ? tr? all trails ~~Dan~~ mags trailed & var. split

✓ ac 7880
9.6

✓ ac 9726
9.4

✓ ac 2960
9.4

✓ ac 5715
9.1

✓ ac 19024
9.3

✓ ac 11534
9.4

✓ am ~~ac~~ 5955 changed June 25, '17.
10.6

* Assumed to be wrong number as AC 5955 was at 23.9 +0.5

✓ ac 1110
9.4

✓ ac 447
9.3

✓ ac 111
10.6? v.f.p.

✓ ac 5725
8.7?

✓ am 21295
8.8

✓ ac 16387
8.9

10.75

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1914phae.proj.10560

Monday May 28, 1917.

R W Mona. 06 29 08

10 ; 30 —

104 AC_{A}^{tAm} plates at η +15° Examined.

Var. fainter than normal on 10 plates.

11.5 5

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1914phae.proj.10560

Tuesday May 29, 1917.

10— 06 29 08 R W Wood.

Plates on which var is fainter than normal (7+5)

✓ Ac 5557
9.8

✓ Ac 5458.
11.5 Impoc.

✓ Ac 5350
9.6

✓ Ac 7278
11.7

✓ Ac 6295
9.6

✓ Am 7355
11.7

✓ Am 1638
10.6

✓ ~~Ac~~ Am 1672
11.0

✓ Ac 8145
9.1

✓ Ac 8096
9.3

10.23.

30

10:30 —

146 plates examined to find plates on which var is fainter than normal.

11:35

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1914phae.proj.10560

Monday June 4, 1917.

06 39 08 RW monoc.

9.20 Plates on which var. is fainter than normal.

4+15

✓ Ac 10229
11.9

✓ Ac 9361
12.0

✓ Ac 9263
10.3

✓ Ac 11369
10.1 fair

✓ Ac 12629
10.1

✓ Ac 12186
9.4

✓ Ac 12083
9.6

✓ am 9606
< 11.2 (c.s. K m.s.)

✓ am 6789
11.6

✓ am 5935
11.0? sup on h' (seems to be about same magn)

* ~~Ac~~ am 5236 assumed to be Am 5236 June 25, 17.
* Assumed to be wrong number as Ac 5-236 ident at 19.9 + 45.3

✓ Ac 2434
11.5

✓ Ac 2324
11.2

✓ Ac 13855-21
10.5

✓ Ac 13610
9.4 fair.

✓ ~~Ac~~ am 11580
10.4

Also 92 plates examined.

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1914phae.proj.10560

June 4, 1917.

The following plates were not examined for that variable. They are L' plates.

Ac 15665	Am 10514
Ac 18216	10358
Ac 16801	9757
Ac 17091	348
17353	
16323	
16203	
16066	
15041	
15675	
15693	
18491	
8403	
13795	
13493	
12849	
14962	
14856	

These plates are class C -
Ac 693, Ac 3387, Ac 627, 728, 10116

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1914phae.proj.10560

June 15, 1917 Friday

9 Measures of I plates taken before 1899. R W Monroe 062908

(before 20955)

I 20188 Feb. 1, '98. 8.6

I 20193 Feb. 8, 98 8.7

I 21377. Oct. 9, '98. 9.1

I 10092 Nov. 26, '93. 8.6 poor.

I 10302 Dec. 26, '93 8.6

I 10324 Dec. 28, '93 8.6

I 13962 Nov. 30, '95. 8.7

I 8032 Feb. 8, '93. 9.1

I 9860 Oct 31, '93 8.7

I 5484 Jan 31, '92 8.6

I 5467. Jan 26, 92 8.6

I 2493. Dec. 14, 1890 9.0

I 2843 Jan. 15, '91 9.1

I 2893 Jan 23, '91. 9.1

I 3383 Apr. 1, '91 9.0

~~I~~ > 9.1 I 348. c. Stars a-d off plate

I 3277 Mar. 11, '91 8.6

Examined, but do not cover:- I 21655
3277
1936
463
3382
8041

9:30

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1914phae.proj.10560

Wednesday, July 17, 1917.

Examination of AC plates to determine variability of Dm +32° 1772 8^h 30.1 +32 18(1855) suspected of var. by Herzsprung. marked on ac14754.

Faint on	Slightly Brter on	
ac7207	ac13070	
slightly fainter ac17389	ac13633	
ac4520		
Normal on		
ac4566		
4499		
9110		
7999		
5896		
5352		
3436		
11182		
12307		
am284		
ac18368		

					JD + Dec.
(BK7.58) Verig. Seq.	53/58 K. magn.	on ac4520	= 63v v27	11.16 11.23 = 11.20	16494.762
		ac17389	= 35v v34	9.90 9.96 = 9.93	20932.650
	Normal on	ac7207	=	9.50	17236.742

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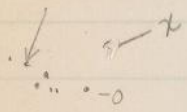
1914phae.proj.10560

Thursday, July 19, 1917.

Examination of plates for susp. var. in Praesepe.

Star at $8^h\ 34^m\ 10^s + 20^\circ\ 10.5$ (1900)

"Max. 12.7 min. <14 (eclipsing) Per. 1.0929)".



Normal on
I 24185
17717
17702
20745
8192
31087
28948
8301
31091
31090
30178
30151
31488
35191
MC 5161
7629-7628
8175
4839
2979
MD 8194
8034
7895

		magn.	J5
Normal on	I 17702	12.95	14014.644
Ft. on	21748		14615.920.

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1914phae.proj.10560

Saturday August 4, 1917.

ζ Persei 02334′. I plates before 1899.
(For obs. on ac plates See Do 7:1—26

I 15975 Sept 20, 1896.
9:1

I 16058 Sept 28, 1896.
9.8

I 19996 Jan. 8, ~~1896~~ 1897
9:1

I 19761 Dec. 16, 1897
9.7

I 4881. Nov. 27, 1891
9.9

I 15789 Aug 27, 1896
12.6

I 5266 December 19, 1891
9:1

I 2382 Nov. 28, 1890
9:1 Edge

I 3235 Mar. 5, 1891
9:1

I 2308
var. ~~region~~ Off edge.

I 2148 Oct. 31, 1890
9.9

I 4914
var. off edge)

I 2716 Jan 6, 1891
9.9

I 415
99 Edge

I 4962 Dec. 3, 1891
99

The following plates were examined but they do not cover the var.:—

I 7696 Dec. 20, 1892
9.8

I 2772 I 2642 5240
414 I 5200
19125 ~~1896~~ 16964
15791 19946 16877
2706 18512

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1914phae.proj.10560

Monday August 27. 1917.

On B 46635, seq. selected for Carte $12^h - 64.5$.

Star 15 was ~~si~~ n.s. on B 49833. Also on the following plates star 15 is n.s. Image does not appear defective, but as it does not show, a new star 15 was selected, and the orig 15 changed to 15a. (See B 46635)

B 38913
34120
39017
40045
29560
33128
30011
50097
27313
50044
49931
46755
46611

Approved by Miss Leavitt, Aug. 28, 17.

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1914phae.proj.10560

Friday March 22, 1918.

C.D.M. -29° 6131. marked on B 17599- + AM 12797-

115 Phm magn. (from C.D.M) 10.4 H.D. Spectrum A0.

Pg. " (from C.P.D) 9.6.

a mistake in one of the catalogues or var.

Looked up on full plates. (magn = 142K Bk 48:34)

am 12797. 9.7	am 3179 9.7
AM 7898 9.7	am 2783 9.7
AM 3827 9.6	am 2247 9.7
AM 7798 9.7	am 2151 9.6
am 6765 9.7	am 1479 9.7
am 7167 9.7	am 320 9.6
am 5737 9.6	am 309 9.7
am 3243 9.7	am 10281 9.6

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1914phae.proj.10560

Tuesday April 9, 1918.

Estimates of brightness of var. +4 45 84 (a j c) 1915 & date
See also p. 86 +-

3—

20 0
21 0
21 +15 22+15 does not cover.
~~21 — 15~~

am 11791
8.6

am 12074
8.6

am 12153
8.7

am 12098
9.4

am 12210
8.4

am 12374
8.6

am 12223
8.6 (cracked)

am 12379
~~8.6~~ 8.6

am 12278
8.5

am 12997
8.6

am 13412
8.4

ac 17372
t.p. extreme edge. c ftest cs seen.

am 13562
yellow

ac 17385
ns. nothing in fel?

Rm 11959
8.6

ac 17552
8.4

Rm 12066
8.6

ac 17667
8.4 edge

330

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1914phae.proj.10560

Friday, April 12, 1918.

Est. of brightness of var. +4° 4584 a.j.c.

10

Ac 17672
8.4

Ac 17679
8.6

Ac 17691
8.4

Ac 17727
8.4

Ac 17754
ff. edge

Ac 17883 21121.607 J.D.
8.4

Ac 17961 mult Im.
8.4?

Ac 18002
8.4

Ac 18034
8.4

Ac 18124
8.6

Ac 18171
8.4

Ac 18307
8.4

Ac 18720
plate ~~ff~~ poor. does not cover region?

Ac 18820
8.6

Ac 18913
8.5 poor edge

Ac 18969
8.5

Ac 19021
8.4

Ac 19042
8.7

Ac 19058
8
8.4

Ac 19065
8.5

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1914phae.proj.10560

Friday April 12, 1918.

Var. +4° 4584 cont—

ac 19097 8.4	ac 17650 8.4	foll. Yellow plates not measured:- ac 19362
ac 19122 8.4	ac 17748 8.2	ac 19400 ac 19323 ac 19012
ac 19239 8.5	ac 17774 8.4	ac 17615 ac 19011 ac 17446
ac 19248 8.4	ac 18003 8.4	
ac 19254 8.6	ac 18054 8.3	
ac 19370 8.6	ac 18295 8.4	
ac 19389 8.5	ac 19032 8.6	
ac 19552 8.4	ac 19602 8.7	
ac 19830 plate + p.	see also p. 205	
ac 17501 84 poor		1055

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1914phae.proj.10560

Tuesday April 16, 1918.

Var. discovered by Q. at $20^h\ 39^m + 3°\ 45'$ (appvx 1850)

Br. on I 34195 — n.s. on 31792

Bright on	faint on
~~I 9557~~	mc 11639 -
I 7205	
34195	mc 13396 & 11639 show good variation.
mc 13396	
I 7118 (fairly bright.	
Range about 2 mags?	I 9557.
	I 9042
Rough mags 11.2 – 13.~~2~~6 ?	I 6877

ns. on	ns. on cont
I 31792.	B 22214
31951	I 16100
B 28464	
I ~~34~~ 4153 (v. f.)	
B 6024	
B 9948	
I 18808	
B 28464	
mc 11639 (Ld 50: 111)	
Var. 13.2[3]	

Magns. using 0m 20 40+5.0

6	11.11	11.24	11.18
7	mc 11628	11.47	11.35
8	11.51	11.70	11.60
9	12.20	12.02	12.11
10	12.45	12.42	12.44
14	13.23	13.04	13.14

mc 13396	I 31792
Var. 11.9	ns. < 13.1
~~mc~~ I 9554	I 7205
12.2	11.2
B 22214	13. < 13.6

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Tuesday April 16, 1918.

Var. +4° 4584 cont. from P. 203.

I + B plates taken before Jan. 1899.

I 9554
8.4

I 9042
9.8

I 4684
8.4? c.s. c off edge

I 6832
8.6

I 7118
8.4

I 7273
8.6? extreme edg.

I 7314
8.4 ext. edge

I 7170
8.4 q edge

I 1412
8.5

I 4131
8.4? c.s. c off edge

I 7366
9.8? on extreme edge

I 7367
9.6? edge

I 21285
8.4

I 18370
8.4

I 7205
8.3

I 18808
8.4

I 11558
8.4? q

I 8858
8.5

~~B 28464~~ I 4158
~~8.4~~ 8.4

B 6024
9.0

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Tuesday April 16, 1918.

Nr. +4° 4584–

B9948
8.4

B22214
9.8

B7387
8.9 extreme edge

I 1908
8.3

I 16100
8.5? 9

I 6877.
8.5

All plates at 21.h2 examined but they do not cover the region.

215

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Wednesday May 8. 1918.

10— Examination of disc. & measures K Regions B plates

Stat 11 on B46354 disc. and marked Var? by Ld. No error in measures, 12 B plates examined — no change upon exam. with ½ in Eye piece, star found to be def. Rejected

130K. Stat 14 on 46477 025:33 — remeas. in Record Book. 3 plates examined. no Error. Retain magns.

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Monday June 10, 1918.

am 5569 ▽ Examination of ac + am plates at $18^h\ 0^m$ to find
variation in Nova Aquilae no. 3. 3 Full boxes
examined, probably about 300 plates.
The following plates show some variation

Preliminary magns. =

	am 6505
	" 3921
1 = 10.4	ac 5199
2 = 10.5	am 6588
3 = 10.6	" 6631
4 = 11.4	" 9927
	ac 10782
	am 6605
	am 6983
	am 8725
	ac 16301
	ac 17717
	ac 18871
	am 12675
	am 13410

	magn.	
am 5569	nova	10.6
am 6588	nova	11.4
ac 16301	nova	10.5

} Sept. 13, 1909.

See next page.

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Monday June 10, 1918.
cont-

AC + Am plates on which nova is about normal, either slightly brighter or fainter than 3—

AC	Am	Am	Am
10825	6515	7860	1483
10836	6510	7826	1448
10794	9431	7758	1424
18950	9313	7717	1287
18711	9299	7670	1270
18498	9107	7599	1251
17626	9079	7581	1237
17371	9029	7423	1051
16935	8968	7291	1021
16739	8945	7279	931
16680	8908	7177	921
16646	8886	7121	920
16155	8659	7107	911
15508	8603	7096	897
16449	8592	7077	818
16411	8551	7057	800
15383	8543	7029	646
15345	8532	6937	622
15341	8477	6920	556
15329	8403	6166	473
5058	8345	6389	403
3977	8309	6325	153
3899	8248	1953	28
3889	8239	1918	10
3812	8197	1554	
3725	8128	1553	
3693	8120	1542	
3657	8415	1489	

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Monday, June 10, 1918

ac & am Plates Cont.

ac 3599	ac 929	am 5429	am 3739
3503	910	5175	3726
2815	855	5164	3688
2788	843	5087	3675
2771	780	5071	3651
2673	361	5021	3566
2625	360	5012	3561
2580	325	4995	3505
2553	6156	4962	3464
2485	6124	4941	3449
1859	5561	4817	3422
1821	5328	4803	2995
1781	5227	4801	2958
1749	5098	4796	2915
1730	4986	4787	2855
1675	4949	4655	2796
1632	4901	4624	2767
1624	4864	4546	2714
1621	19422	4535	2660
1584	19179	4414	2619
1571	19112	4354	2573
1546	15299	4313	2279
1522	15268	4271	2260
1518	15257	4244	2245
1517	15218	4196	2137
1511	15164	4190	2110
1461	14502	4150	2119
1390	14435	3882	1961
1325	14297	3839	13296
1019	14246	3835	13168

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Monday, June 10, 1918

ac & am Plates Cont.

am 12372	am 5806	am 14234	ac 11695
12357	5741	14133	10916
12343	5689	14119	10854
12316	5645	14114	10826
12292	5633	14070	10701
12271	5621	13437	10592
12267	5499	13369	10532
12257	5495	13300	9955
12248	5398	13215	9923
12241		13199	9810
12087		13169	9776
11945		13164	9728
11291		12700	9690
11269		12578	9661
11213		12563	9633
11094		12497	9620
11014		12453	9594
11002		12402	9584
10974		11938	9570
10832		11902	9493
10797		11886	8895
10444		11885	8763
6325		11880	8732
6257		11867	8662
6251		11839	8642
6192		11808	8590
6172		11777	8568
6144		11759	8556
6126		11745	8573
5814		11701	8483

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Monday, June 10, 1918

Am & ac Plates cont-

ac 8456
7954
7855
7805
7719
7662
7596
7556
7476
7648
6863
6758
6713
6576
6549
6595
6476
6421
6393
6323
6312
6246

2 /

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Tuesday July 9, 1918.

Cat. 4° Square Plate Mc 6756 star 235 susp. of variability probably slight variation, but certainly variable. Using sequence 3 K-

I 23628
~~12.4~~ 12.2

These estimates are rough, but there is certainly some variation in the star.

I 13594
13.3

I 16587
11.6? This cat. prob. too bri.

I 26395
12.4

I 28212
~~12.4~~ 12.4

Mc 2329
12.9

I 22347
13.3

I 21960
12.6

I 35140
13.0

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