KG
11365
805

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* magns. of Comp. stars.

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Position meas. Book 4. page 60.

December 7, 1894.

Meas. of new variable star in Draconis
Bosso Md on pl. B 11532 No. 4911. R.A. 0h 17m.2 −62° 21' (appx. 1875)

Plate B 5718

a	7.3	8.2	= 430 0 16 11 −61 59.5 8	
b	7.7	8.6	= 382 0 14 38 − 62 34 9	
c	8.1	9.0	= 537 0 20 13 − 62 13.8 8.5	
d	(8.4)	9.3	= —.	
e	8.6	9.5	= 368 0 14 5 − 62 17.6 9.5	8.75
f	8.9	9.8		
g	9.3	10.2		
h	9.7	10.6		
k.	10.0	10.9		
l	10.3	11.2		
var.	8.7	9.6 9.4 = 9.60		

3c. 0h

b .382 a .430

3c. 0h

c .537

368. e g

378. f l h. ① k. d

4.37 .92

8.8 7.9 0.9

.519 .504

3c. 471

54 49 52 .02 .03

9.5 44 e 3 v 9.8 74 9.7 59 = 9.75 66 .08 .07

9.7 59 v 1 f 9.8 69

Plate B 4203

10.8 78 k = .1

v n.s. < 10.9 88

Plate B 4373

10.5 43 h = .1

v = h? < 10.53 ?

✱ 10.6 ?

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December 7, 1894.

Meas. of New var. in (Cont.)

Plate B 4662

9.3 24 d 2 v 9.5 44 9.3 24 = 9.4 34 .10 .10

9.3 24 v 2 e 9.5 44

Plate B 5716

9.3 24 d 3 v 9.6 54 9.4 59 = 9.50 56 9.44 .12 .03 10 10

9.34 v 1 e 9.5 49 9.44

a	6.4	8.2
b	6.8	8.6
c	7.2	9.0
d	(7.5)	9.3
e	7.7	9.5
f	7.9	9.7
g	8.3	10.1
h	8.5	10.3
k	8.8	10.6
l	9.2	11.0

4801 .02

8.8 7.0 1.8

var. 7.6 9.4 34 9.4 34 = 9.4 34 .00 .00

Plate B 6762

10.5 43 h = .2

v n.s. < 10.7 63

Plate B 6922

11.2 08 l = 1.2

v n.s.? < 11.3 18 ?

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1894phae.proj..806F

December 7, 1894.

Meas. of new var. star in (Cont.)

Plate B 7017

11.7 08 l = .3

v n.s. < 11.5 38

Plate B 7018

11.7 08 l = .4

v n.s. < 11.6 48

Plate B 7085

11.7 08 l = .3

v = .2 11.3 18

Plate B 8241

8.6 52 b 1 v 8.7 62 8.7 62 = 8.70 62 .00 .00

8.7 62 v 3 c 8.92 90

Plate B 8490

8.92

9.0 c 2 v 9.1 12 9.2 14 = 9.20 13 .01 .01

9.2 14 v 1 d 9.3 24

Plate B 10464

In corner of plate. 10.2 11 g = .1

v n.s. < 10.3 21

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December 7, 1894

Meas. of new var. star in (Cont.)

Plate B 11 ~~53~~ 52 ϕ.

a Cl. K
b " 7.
c Ma?
d ft.
e "
f "
g "
h "
k "
l "
var. Md

52 72 62 67
8.8 b 2 v 8.8 8.7 = 8.75 .05 .05
8.7/62 v 3 c 9.0 8.92

Plate B 11666

52 8.92 82 87
8.6 b 4 v 9.0 8.9 = 8.95 .05 .05
8.9/82 v 1 c 9.0 8.92

Plate B 5718

8 7
a 7.2 8.2 g 9.3 10.3
b 7.5 8.5 h 9.7 10.7
c 7.9 8.9 k 10.1 11.1
d (8.3) 9.3 l 10.3 11.3
e 8.5 9.5 var. 8.7 9.7 9.7 = 9.70 .02 .03
f 8.8 9.8 e 3 v 9.8 9.7 = 9.75 .08 .07
v 1 f

4/31/.78 8.8 7.8/1.0 4/37/.92 8.8 6.9/1.9

Plate B 5716

a 6.3 8.2 g 8.2 10.1
b 6.7 8.6 h 8.5 10.4
c 7.1 9.0 k 8.9 10.8
d (7.4) 9.3 l 9.2 11.1
e 7.6 9.5 var. 7.5 9.4 9.4 = 9.40 .05 .05
f 7.8 9.7 d 2 v 9.5 9.4 = 9.45 .05 .05
v 1 e

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December 12, 1894.

Meas. A new variable star in Phoenix
A.S.C. 32334 $23^h 53.^m9$ $-57°8'$ 7.1 (1900).

Plate B 6761

				age		
a	5.6	7.1	= 32327	23 52.0	-57 59	7.0
b	6.0	7.5	= 32321	23 51.7	-57 54	7.5
c	6.3	7.8	= 32298	23 50.2	-57 51	7
d	7.0	8.5	= 32331	23 52.3	-57 42	8.8
e	(7.3)	8.8	= 31. 23^h 1539			
f	7.8	9.3	= 31. 23^h 1532	23 55.9	-57 29	9.5
g	8.4	9.9	=			
h	9.0	10.5	=			
var.	6.8	8.3 8.3 8.30	= 32334			

7.8 c 4 v 8.2 8.4 = 8.30
8.4 v 1 d 8.5

Plate B 3840

7.8 c 4 v 8.2 8.3 = 8.25
8.3 v 2 d 8.5

Plate B 4055

7.8 c 5 v 8.3 8.4 = 8.35
8.4 v 1 d 8.5

Plate B 4202

8.5 d 0 v 8.5 8.2 = 8.35
8.2 v 5 e 8.7

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1894phae.proj..806F

December 12, 1894

Meas. of new var. in ~~Con Phoenix~~ (Cont.)

Plate B 4369

near edge of plate

7.0 a r v 7.2 7.2 = 7.20

7.2 v 2 b 7.4

Plate B 4374

7.4 b 3 v ~~7.7 7.7 = 7.70~~ 7.5 7.5 = 7.50 oo oo

7.5 ~~7.7~~ 7.7 v 13 c 7.8

~~B5703~~

Plate B 6470

8.5 d 2 v 8.7

e not on pl.

Plate B 6760

7.8 v 7 d 8.5 v = 7.8

c b ra not on pl. d on edge of pl.

Plate B 6772

7.4 ~~7.8~~ b 11 4 v ~~8.2 8.3 = 8.25~~ 7.8 7.6 = 7.70

7.6 ~~8.3~~ 2 c ~~8.5~~ 7.8

Plate B 6923

7.8 c 4 v 8.2 8.4 = 8.30

8.4 v 1 d 8.5

Plate B 7653

7.8 c 4 v 8.2 8.2 = 8.20

8.2 v 3 d 8.5

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December 12, 1894

Meas. of new var. in Phoenix (Cont.)

Plate B 7654

7.8 c 3 v 8.1 8.2 = 8.15
8.2 v 3 d 8.5

Plate B 8352 Op.

7.8 c 5 v 8.3 8.4 = 8.35
8.4 v 1 d 8.5

a dd. G 5.5 7.0
b " F 6.0 7.5
c " G 6.2 7.7
d " E 7.0 8.5
e " F (7.3) 8.8
f " F? 8.0 9.5
g 7
h 7

var. 7.0 8.6 8.5 8.4 = 8.50

Plate B 8490

7.8 c 5 v 8.3 8.4 = 8.35
8.4 v 1 d 8.5

Plate B 9939

7.8 c 5 v 8.3 8.4 = 8.35
8.4 v 1 d 8.5

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December 12, 1894.

Meas. of new var. in Phoenix (Cont.)

Plate B 10008

8.2
m edge of pl. v 3 d 8.5 v = 8.2
c not on plate

Plate B 5788

Does not cover region

Plate B 6761

a	5.5	7.0	
b	5.9	7.4	
c	6.4	7.9	
5 27/54 d	7.1	8.6	
e	(7.3)	8.8	
80 6.5 1.5 f	7.8	9.3	
g	8.4	9.9	
h	8.9	10.4	
var.	7.0	8.4 8.4 = 8.40	

7.8 c 4 v 8.2 8.4 = 8.30
8.4 v 1 d 8.5

Plate B 10202

7.8 c 4 v 8.2 8.3 = 8.25
8.3 v 2 d 8.5

Plate B 10301

8.1 v 4 d' 8.5 v = 8.1 m edge of pl. a b c d not on plate.
Pl. 6761 d' v'

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December 12, 1894.

Meas. of new var. in Phoenix Cont.

Plate B 10329

8.3 v 4 e 8.7 v = 8.3
d not on plate

Plate B 10465

8.2 v 5 e 8.7 v = 8.2
d not on pl.

Plate B 10649

8.6 v 1 e 8.7 v = 8.6
d not on plate
d' 1 v

Plate B 10677 78 Sp.

a bel. g 5.8
b " f 6.3
c " g 6.5
d " f 7.2
8.0 e " A (7.2)
f ~~f~~ 7
g ~~f~~ 7
d ~~f~~ 7
vw Nd 6.7 8.0 8.0 = 8.00 $H_f = \frac{1.0}{}$; $H_d = \frac{1.0}{}$

7.8 C 3 v 8.1 8.1 = 8.10
8.1 v 4 d 8.5

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December 12, 1894.

Meas. of new var. in Phoenix (Cont.)

Plate B 6761

a	5.5	7.0
b	5.9	7.4
c	6.2	7.7
d	6.9	8.4
e	(7.1)	8.6
f	7.8	9.3
g	8.4	9.9
h	8.9	10.4
var.	6.7	8.3 8.3 = 8.30

5) 23/46

80.5 / 6.5 / 1.

7.8 C 4 v 8.2 8.4 = 8.30

8.4 v 1 d 8.5

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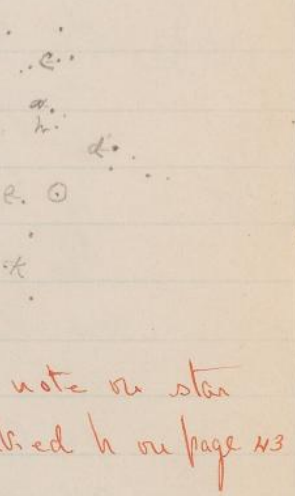
December 13, 1894.

Meas. of new variable star in Aquarius. See also p. 43.
R.A. 22h 10.m7 Dec. -21.6 (appar ~~1857~~ 1855).

The sequence & comparison stars adopted is that given on p. 43

Plate B 10299

	a	6.3	8.2	-21° 6197	22 10.6	-21 27 7.7
	b	6.6	8.5	-21° 6193	22 10.5	-21 43 8.6
	c	7.0	8.9	-21° 6198	22 10.6	-21 17 9.0
6.85	d	7.5	9.4	-21° 6200	22 11.4	-21 31 9.5
	e	7.9	9.8			8.7
	f	8.5	10.4			
8.7 6.8 1.9	g	9.1	11.0			
	h	9.6	11.5			
	k	9.9	11.8			
	var.	7.6	9.5 ~~8.6~~ = 9.5 = 9.50			



See note on star marked h on page 43

~~9.24 9.40 9.46 = 9.37~~

~~8.94 8.7~~ c 3 v ~~9.3 9.4 9.2 = 9.28~~ 13 03 09

~~9.40 9.4~~ v o d ~~9.4 9.40~~

~~9.46 9.5~~ v 3 e ~~9.5 9.76~~

Plate I 1403

~~9.76 9.88 9~~ e 3 v ~~9.5 10.1 9.9 = 10.00~~ ~~10.06 9.75 = 9.90~~

~~9.75 9.9 8.7~~ v 4 f ~~14.3~~ ~~10.15~~ ~~16~~ 15

Plate I 1426

~~9.76 9.8~~ e 2 v ~~10.0 9.8 = 9.90~~ ~~9.96 9.65 = 9.80~~ ~~16~~ 15

~~9.65 9.8~~ v 5 f ~~10.3~~ ~~10.15~~

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December 13, 1894.

Meas. of new var. in (Cont.)

Plate B 4099

~~9.76 9.76~~ c 3 r ~~10.1 9.9 = 10.00~~ ~~10.06 9.75 = 9.90 16 15~~

~~9.75 9.9~~ r 4 f ~~10.3~~ ~~10.15~~

Plate B 4132

~~9.76 9.76~~ c 3 r ~~10.1 9.9 = 10.00~~ ~~10.06 9.75 = 9.90 16 15~~

~~9.75 9.9~~ r 4 f ~~10.3~~ ~~10.15~~

Plate B 4273

10.3 f = .2 10.5

r N.S. ∠ 10.5

Plate B 4294

10.3 f 5 r 10.8 10.7 = 10.75

10.7 r 1 g 10.8

g = .1

Plate B 4317

g g 1 r 10.9 10.8 = 10.85

10.8 r 4 ~~1~~ 11.2

h = .1

Plate B 4322

g g 1 r 10.9

r = .1

h N.S

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December 13, 1894.

Meas. of new var. in (Cont.)

Plate B 4505

11.2 ~~X~~ 4 v 11.6 11.5 = 11.55
11.5 v 1 ~~X~~ 11.6
k = .1

Plate B 6 #327

10.8 g 3 v 11.1 10.9 = 11.00
10.9 v 3 ~~X~~ 11.2

a	~~7.4~~	6.4	8.0
b	~~7.8~~	6.8	8.4
c	~~8.4~~	7.4	9.0
d	~~8.8~~	7.8	9.4
e	~~9.1~~	8.1	9.7
f		8.5	10.1
g		8.9	10.5
h		9.4	11.0
k		10.0	11.6
var.		9.2	11.1 11.0 = 11.05

42 4/.1

8.7 / 7.1 / 1.6

Plate B 6343

10.3 f = .2
v ns. < 10.5

Plate B 8038

10.3 f = .1
v ns. < 10.4

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December 13, 1894

Meas. of new var. in (Cont.)

Plate B10298

8.9 c 4 v 9.3 9.3 = 9.30
9.3 v 1 d 9.4

Plate B10510

8.9 c 3 v 9.2 9.2 = 9.20
9.2 v 2 d 9.4

Plate B10511

8.9 c 4 v 9.3 9.3 = 9.30
9.3 v 1 d 9.4

Plate B10794 Sp.

a Bl K 6.3 7.9
b " 7 6.8 8.4
c " 7: 7.3 8.9
d " 7 ~~7.9~~ 9.5
e " E7 8.0 9.6
f - 7 7
g - 7 7
h - 7 7
k - 7 7
var Md 6.9 8.5 8.5 = 8.50 Hγ 10; Hδ 10; Hβ 1

8.7
~~7.8~~
1.6

8.4 b 1 v 8.5 8.4 = 8.45
8.4 v 5 c 8.9

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December 13, 1894.

Plate B11821

8.4 b 1 v 8.5 8.4 = 8.45

8.4 v 5 c 8.9

Plate B10299

a	6.4	8.1
b	6.8	8.5
c	7.2	8.9
d	7.8	9.5
e	8.2	9.9
f	8.7	10.4
g	9.1	10.8
h	9.5	11.2
k	9.8	11.5
var	7.7	9.4 9.3 = 9.35

8.7 / 7.0 / 1.7

8.9 c 4 v 9.3 9.4 9.5 = 9.40

9.4 v 0 d 9.4

9.5 d 3 e 9.8

Plate B~~K~~6327

a	6.5	8.0	k	10.0 11.5
b	6.9	8.4	var	9.4 11.0 10.9 = 10.95
7.2 c	7.4	8.9		
d	7.9	9.4	10.8	g 2 v 11.0 10.9 = 10.95
e	8.3	9.8	10.9	v 3 k 11.2
f	8.8	10.3		
g	9.2	10.7		
h	9.7	11.2		

8.7 / 9.2 / 1.6

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December 21, 1894.

H.P. 1240 and 1228.

Examination of Charts to determine magn. of star known as H 1240 which seems to be identical with BDM -27° 3082 R.A. 6h 27m 5.8s Dec. -27° 50.0 (1875) magn. 8.7 = A.G.C. A.G.C. 8018 magn. 8½

Plates B 4513, 4548, 4626, 7184 and 10487 examined shows that the star is about 0.1 magn. fainter than CDM -27° 3085 R.A. 6h 28m 1.0s Dec. -27° 54.8 magn. 9.9, and about 0.5 magns. brighter than CDM -27° 3072 R.A. 6h 27m 23.5s Dec. -27° 55.0 magn. 9.8 and the examination gives no evidence of variation.

The star measured in Vol. XIV, p. 411 is therefore assumed to be CDM. -27° 3068 R.A. 6h 27m 4.5s Dec. -27° 56.3 magn. 7.9 which equals A.G.C. 8000 magn. 8.4

The star H 1240 in Table XXVII of Vol XIV, p. 450 is an additional observation of H 1228.

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1894phae.proj..806F

December 24, 1894

Examination of photographs to determine variation if any in the stars No 2929 and No. 2930 on plate B9431 (B75 p. 102).
Also for examination of two new variable stars found by Professor E. C. Pickering as bright on B9420 and faint on X . Approx. position in R.A.= in Dec.= (1875).

Plate 3601

Br. line stars same as 7 Aqua

a 2 1
1 3 b
c 1 2
2 4 d
b 3 J
J 1 c

Professor Pickering's Stars

a n.s.
b 2 2

Plate B3315

a β2 1
1 3 b
c 1 2
2 5 d
c β2 J
J β4 d

β1 n.s. very faint plate

b.
2.
d. .1 .J
a. c.

1894phae.proj..806F

December 24, 1894.

Examination of recent Cannae photos (Cont).

Plate B 3550

a 3 1
1 3 b
c 2 2
2 3 d
c 3 J
J 3 d

a n.s.
b = 1.3
2 n.s.
1 = 1.5

Plate B 4748

a 3 1
1 2 b
c 2 2
2 4 d
c 2 J
J 4 d

very poor plate G.C.P.'s stars not compared as Comp. stars do not appear.

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1894phae.proj..806F

December 24, 1894.

Examination of N. Lamina plates (Cont).

Plate B 5001

a 3 1
1 3 b
c 2 2
2 3 d
c 3 J
J 3 d

$N_2 = .1$
a n.s.
b = .1 ?

Plate B 7140

a 3 1
1 3 b
c 3 2
2 2 d
c 3 J
J 2 d

Plate too poor to comp. E. C. P.'s Stars

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December 28, 1894.

Obsns. of η Carinae plates (Cont.)

Plate 7264

a 3 1
1 3 b
c 2 2
2 3 d
c 2 J
J 3 d

Plate too poor to show G.C.P.'s stars

Plate B 7520

a 3 1
1 3 b
c 2 2
2 4 d
c 2 J
J 4 d

Plate too poor to compare G.C.P.'s stars

Plate B 7584

a 3 1
1 3 b
C 2 2
2 3 d
c 2 J
J 3 d

Plate too poor to show G.C.P.'s 4th stars

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December 28, 1894.

Diam. of η Coronae Region (Cont.)

Plate B ~~7920~~ 9420

a	3	1
1	3	b
c	2	2
2	3	d
c	2	J
J	3	d

a = 3
b = 1
2 = .4

Plate B9291

a	4	1
1	2	b
c	2	2
2	4	d
c	2	J
J	4	d

a = 3
b = 1

Plate B9479

a	3	1
1	2	b
c	2	2
2	3	d
c	2	J
J	3	d

a = 3
b = 1

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1894phae.proj..806F

December 28, 1894

Exam. of η Carinæ region (Cont'd)

Plate B 7107

a 4 1
1 2 b
c 2 2
2 3 d
c 3 J
J 3 d

Too poor to show E.C.P.'s stars

Plate 9472

a 4 1
1 0 b
1 5 c
c 2 ~~4~~ 2
2 3 d
c 2 J
J 3 d

a = 3
b = 1

Plate 9759

a 2 1
1 3 b
c 2 2
2 3 d
c 2 J
J 3 d

a n.s.
b n.s.
2 = 3
~~4~~ 1 c
c 2 3

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1894phae.proj..806F

December 28 1894

Exam. of region of η Bacinæ (Cont.)

Plate B 10807

b 3 H1

1H 3 c

c 2 2

2 3 d

c 2 J

J 3 d

~~Plate 10807~~

a ns

b ns.

1 = .3

Plate 10836

a 4 1

1 , b

c 1 2

2 4 d

J H2 2

2 H3 d

a n.s.

b n.s.

3 = .4

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1894phae.proj..806F

December 28, 1894.

Gram. of region of N Coronae (Cont.)

Plate B 10924

a	$3	1
1	1	b
c	2	2
2	3	d
C	2	J
J	3	d

a ns
b ns
3 = 11

Plate B 7951

a	4	1
1	1	b
c	2	2
2	3	d
c	2	J
J	3	d

a n s
b ns
1 = 12

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December 28, 1894.

Exam of X plates. Region of η Lacerinae

Plate X 3884. Exp. Jm & C. P.'s stars.

1/111 = .2

a ns

b ns.

Plate X 4567

a ns

b ns

3 = .8

Plate X 4571

a ns

b ns

3 = .4

Plate X 4604

a ns

b ns

3 = .5.

Plate X 4605

a ns

b ns

3 = .2

Plate X 4628

a ns

b ns

2 = .3

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1894phae.proj..806f

December 28, 1894.

Exam. of X plates. Region of N Canum (Cat.)

Plate X 4634

a ns

b ns

3 = .4

Plate X 4635

a ns

b ns

3 = .3

Plate X 4636

Not ex.

Plate X 4666

a ns

b ns

3 = .8

Plate X 4669

a = .2

b = .2

2 = .5

Plate X 4692

a = .2

b = .2

2 = .8

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1894phae.proj..806F

December 28 1894 X
Exam. of X plates; region of η Cassiopeiae (Cont).

Plate X 5551

a = .4
b = .2
y = .2

Plate X 5554

a = .2
b = .2
z = .9

Plate X 5555

a = .2
b = .2
z = .9

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1894phae.proj.8065

January 23. 1894/5

Meas. of New variable in Octans (No 3).
RA 20h 57m -82° 30 (1900 approx. from est.)
Sp. M2 on plate B11729 (No. 5306)
Plate B 6509

	a	5.0	7.6	28684	20h 52.5m	-82° 25'	8
8.1 5.5 2.6	b	5.6	8.2	28922	21 3.4	-82 37	8¼
	c	5.8	8.4	28622	20 49.5	-81 47	8
5.47	d	6.3	8.9				8.07
	e	7.0	9.6				
	f	7.4	10.0				
	g	7.8	10.4				
	h	8.2	10.8				
✓	k	8.5	11.1				
	l	8.8	11.4				
	m	9.1	11.7				
	n	9.6	12.2				
	o	10.1	12.7				



Var. 9.6 ~~12.0 12.0 11.9 = 11.97~~ 12.21 12.13 12.08 = 12.1 4 07 01 06 / 04 04 04

11.71 ~~11.5~~ m 6 v ~~12.1 12.0 12.0 = 12.03~~ 12.31 12.13 12.18 = 12.21 10 08 03

12.13 ~~12.0~~ v 0 n ~~12.0~~ 12.13

12.18 ~~12.0~~ v 4 0 ~~12.4~~ 12.58

Plate B 3592

11.71 ~~11.5~~ m 4 v ~~11.9 11.8 = 11.85~~ 12.11 11.93 = 12.02 09 09

11.93 ~~11.8~~ v 2 n ~~12.0~~ 12.13

Plate B 3584

12.58 ~~12.4~~ v 0 0 14 = ~~12.4~~ 12.58
on limit of visibility

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1894phae.proj..806F

January 23, 1894/5

Obs. of New variable in Octans No. 3 (Cont.)

✓ Plate B 3615

11.71 ~~11.5~~ m = .2 ~~11.7~~ 11.91

v ns. ~~< 11.7~~

✓ Plate B 3998

10.05 ~~10.4~~ f = .4 ~~10.8~~ 10.45

v ns. ~~< 10.8~~

✓ Plate B. 4140

10.39 ~~10.3~~ g = .1 ~~10.4~~ 10.49

var. n.s. ~~< 10.4~~

✓ Plate B 4235

10.05 ~~10.0~~ f = .3 ~~10.3~~ 10.35

v ns. ~~< 10.3~~

✓ Plate B 4297

12.13 ~~12.0~~ m = .3 ~~12.3~~ 12.43

v ns. ~~< 12.3~~

Plate B 4325

11.71 ✓ ~~11.5~~ m = .3 ~~11.8~~ 12.01

v ns ~~< 11.8~~

✓ Plate B 5395

9.63 ~~9.6~~ c 2 v ~~9.8 9.8 = 9.80~~ 9.83 9.85 : 9.84

9.85 ~~9.8~~ v 2 f ~~10.0~~ 10.05 01 01

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1894phae.proj..806E

January 24, 1894 X 5

Meas. of new variable in Octans (No 3) Cont.

✓ Plate B 5414

9.05 ~~9.0~~ d 5 v ~~9.5 9.5 = 9.50~~ 9.55 − 9.53 = 9.54
9.53 ~~9.5~~ v 1 e ~~9.6~~ 9.63 01 01

✓ Plate B 5423

9.05 ~~9.0~~ d 5 v ~~9.5 9.5 = 9.50~~ 9.55 − 9.53 = 9.54
9.53 ~~9.5~~ v 1 e ~~9.6~~ 9.63 01 01

✓ Plate B 5599

10.05 ~~10.0~~ f 4 v ~~10.4 10.2 = 10.30~~ 10.45 − 10.29 = 10.37
10.29 ~~10.2~~ v 1 g ~~10.3~~ 10.39 08 08

✓ Plate B 6264

11.09 ~~11.0~~ K = 1 2 ~~11.2~~ 11.29
Var N.S. ~~< 11.2~~

✓ Plate B 6269

10.05 ~~10.0~~ f = 1 4 ~~10.4~~ 10.4
var N.S. ~~< 10.4~~

✓ Plate B 6270

12.58 ~~12.4~~ O = 1 ~~12.5~~ 12.68
v N.S. ~~< 12.5~~

Plate B 6271

Var. N.S. Too near edge of plate to show comparison stars except a and b

✓ B 5423

a	5.4	7.5
b	6.0	8.1
c	6.5	8.6
d	7.0	9.1
e	7.6	9.7
f	8.2	10.3
g	8.6	10.7
h	9.2	11.3
k	9.85	11.6
l	9.4	11.9
m	10.3	12.3
n	N.S.	f
o	N.S.	f
var	8.1	10.15 9.95 = 10.05 ~~10.1 9.9 = 10.0~~ 10 10

8.1 5.97 6.0 2.1 Mean of Standards

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1894phae.proj..806F

January 24, 1894.5

Meas. of new Variable in Octans (Cont.)

✓ Plate B 6322

10.79 ~~10.6~~ h = .3 10.9 11.09

r ns. ~~< 10.9~~

✓ Plate B 6375

12.58 ~~12.4~~ 0 = .1 ~~12.5~~ 12.68

r ns. ~~< 12.5~~

✓ Plate B 7057

10.39 ~~10.3~~ g 5 r ~~10.8 10.5 = 10.65~~ 10.89 10.69 = 10.79

10.69 ~~10.5~~ r 1 h ~~10.6~~ 10.79 10 10

✓ Plate B 7058

10.39 ~~10.3~~ g 5 r ~~10.8~~ = ~~10.65~~ 10.89 10.69 = 10.79

10.69 ~~10.5~~ r 1 h ~~10.6~~ 10.79 10 10

✓ Plate B 9341

12.58 ~~12.4~~ 0 = .1 ~~12.5~~ 12.68

r ns. ~~< 12.5~~

✓ Plate B 9676

9.63 ~~9.6~~ e 1 r ~~9.7 9.8 = 9.75~~ 9.73 9.85 = 9.79 ~~09~~ 06 06

9.85 ~~9.8~~ r 2 f ~~10.0~~ 10.05

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1894phae.proj..806F

January 24, 1894 S

Meas. of new var. in Octans (No 3) (Cont.

Plate 9678

	a	5.7	7.5
8.1 6.21	b	6.3	8.1
6.3 / .18	c	6.8	8.6
	d	7.3	9.1
	e	7.9	9.7
	f	8.2	10.0
	g	8.5	10.3
	h	8.8	10.6
	k	9.1	10.9
	l	9.3	11.1
v	m	9.6	11.4
	n	10.0	11.8
	o	10.4	12.2
	var	8.0	~~9.7 9.8 = 9.75~~ 9.73 9.85 = 9.79 06 06

Plate B 11602

11.09 ~~11.0~~ K 5 v ~~11.5 11.2 11.2 = 11.30~~ 11.59 11.35 11.41 = 11.45 14 10 04

11.35 ~~11.2~~ v o l ~~11.2~~ 11.35

11.41 ~~11.3~~ v 3 ~~4~~ m ~~11.5~~ 11.71

Plate B 11606

11.09 ~~11.0~~ K 2 v ~~11.2 11.1 = 11.15~~ 11.29 11.25 = 11.27 02 02

11.25 ~~11.1~~ v 1 l ~~11.2~~ 11.35

Plate B 11859

9.05 ~~9.0~~ d 1 v ~~9.1 9.1 = 9.10~~ 9.15 9.13 = 9.14

9.13 ~~9.1~~ v 5 e ~~9.0~~ 9.63 01 01

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1894phae.proj..806F

January 24, 1894 X 5

Obs. of new variable star in Octans (No. 3) Cont.

Plate B 11906

~~8.55~~ 8.5	c b 5 v	~~9.0 9.0 9.0 = 9.00~~	9.05	9.05 9.03 = 9.04	
9.05 ~~9.0~~	v o d	~~9.0~~	9.05	01 01 01	
9.03 ~~9.0~~	v 6 e	~~9.6~~	9.63		

Plate B 12100

9.05 ~~9.0~~	d 1 v	~~9.1 9.1 = 9.10~~	9.15	9.13 = 9.14	
9.13 ~~9.1~~	v 5 e	~~9.6~~	9.63	01 01	

Plate B 11729 (Dp).

~~8.55~~ 8.5	c 6 v	~~9.1 9.0 = 9.05~~	9.15	9.05 = 9.10	
9.05 ~~9.0~~	v o d	~~9.0~~	9.05	05 05	

Dp.

a 35K
b A
c H
d H?
e N.S.
f "
g "
h "
k "
l "
m "
n "
o "
var Nd

8.1
6.3
1.7

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1894phae.proj..806F

January 24 1894 ~~5~~

Means of New. variable star in Octans (No. 3) (Cont.)

Plate 1650 ~~Plate~~ ~~Plate~~

	a	5.0	7.5
8.1 5.57	b	5.6	8.1
5.6 / 2.5	c	6.1	8.6
	d	6.6	9.1
	e	7.2	9.7
	f	7.6	10.1
	g	7.9	10.4
	h	8.2	10.7
✓	k	8.5	11.0
	l	8.8	11.3
	m	9.2	11.7
	n	9.6	12.1
	o	10.1	12.6
	var	9.7	~~12.1 12.0 = 12.05~~ 12.23 12.18 = 12.20

✓ 03 02

12.13 ~~12.0~~ var 1 v ~~12.1 12.0 = 12.05~~ 12.23 12.18 = 12.20

12.18 ~~12.0~~ v 4 0 ~~12.1~~ 12.18 03 02

✓ Plate 9678

8.1 6.30 / 1.7	a	5.7	7.4	h 8.8	10.5
	b	6.4	8.1	k 9.1	10.8
	c	6.8	8.5	l 9.3	11.0
	d	7.3	9.0	m 9.6	11.3
	e	7.7	9.4	n 10.0	11.7
	f	8.1	9.8	o 10.4	12.1
	g	8.4	10.1	var 8.0	9.63 ✓ 9.73 9.85 = 9.79

~~9.23 9.95 = 9.94~~ ~~9.6~~ 21 v ~~9.7 9.8 = 9.75~~

~~9.9 9.9 = 9.90~~ 9.85 ~~9.8~~ v 2 6 ~~10.0~~ ~~10.05~~ 06 06

01 01

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1894phae.proj..806F

January 24, 1895.

~~Meas. of new var. star in Orion. (No. 5) (Cont)~~

January 25, 1895

~~Plate~~

Meas. of Andersons Variable star in Andromeda (J Andromedae) BD +26° 43

(Cont. from B 3 p145

Plate I 10389

11.7 h g 3 v 12.0 12.0 = 12.00
12.0 v 2 h k 12.2

Plate I 10390

11.70 h g 4 v 12.1 12.0 = 12.05
12.0 v 2 h k 12.2

Plate I 10441

11.2 g 2 v 11.4 11.6 = 11.50
11.6 v 1 h 11.7

Plate I 10552

11.2 g 2 v 11.4 11.6 = 11.50
11.6 v 2 h 11.7

Plate I 10630

1st images { 10.9 f 3 v 11.2 11.0 = 11.10
11.0 v 2 g 11.2

2nd images { 10.9 f 4 v 11.3 11.0 = 11.15
11.0 v 2 g 11.2

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1894phae.proj..806F

January 25, 1894

Meas. of γ Andromedae (Cont.

Plate I 11458

Plate useless for Comparison

Plate I 11573

11.4 g 2 r 11.6

g h ns.

r = .1

Plate I 11595

11.2 g 4 r 11.6 11.1 = 11.35

11.1 r 3 g 11.4

g r 7.97
1.5
1.7

a	7.0	8.7
b	7.5	9.2
c	7.9	9.6
d	8.3	10.0
e	~~8.1~~ 9.0	10.7
f	8.8	10.5
g	9.5	11.2
h	9.9	11.6
k	10.4	12.1

var g r (a) (= b) t 11.6 11.1 = 11.35

α	4.0	4.3	8.7
β	4.6	4.9	9.2
γ	5.4		9.5
δ	5.0		9.3
ε	5.5		9.7

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1894phae.proj..806F

January 25, 1895

Meas. of γ Andromedae (Cont).

Plate I 11732

11.2	f	1	r	11.3 10.9 = 11.10
10.9	r	5	g	11.4

Plate I 11749

11.0	e	1	r	11.1 11.0 = 11.05
11.0	r	2	f	11.2
10.32	d	7	r	11.0 10.7 = 10.85
10.7	r	7	g	11.4

Plate I 11765

10.3	d	7	r	11.0 10.9 = 10.95
10.9	r	1	e	11.0

a	7.0	8.8
b	7.4	9.2
c	7.9	9.7
d	8.2	10.0
e	8.6	10.4
f	8.7	10.5
g	9.2	11.0
h	9.8	11.6
k	10.4	12.2
var	8.5	10.6 10.9 = 10.75

9.2 7.4 1.8 7.43

(a) + 3 = b (b)

α	3.0	3.3	8.2
β	3.86	3.9	8.8
γ	4.3	4.6	9.2
δ	4.1	4.4	9.1
ε	4.5	4.8	9.4

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1894phae.proj..806F

January 25, 1895

Meas. of Andromedae (Cont.)

Plate I 11809

9.8 c 3 r 10.1 10.2 = 10.15
10.2 r 1 d 10.3

Plate I 12020

8.7 a 3 r 9.0 9.0 = 9.0
9.0 r 2 b 9.2

Plate I 12031

8.7 a 1 r 8.8 8.9 = 8.85
8.9 r 3 b 9.2

a	8.0	8.9
b	8.3	9.2
c	8.7	9.6
d	8.9	9.8
e	9.3	10.2
f	9.3	10.2
g	9.7	10.6
h	10.1	11.0
k	10.4	11.4
var	8.1	8.8 8.9 = 8.85
α	5.3	9.0
β	6.0	9.4
γ	6.4	10.1
δ	6.7	10.3
ε	6.8	10.5

9.2 8.33
8.3
0.9

Small scale of plate
Small apparently diffuse.

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1894phae.proj..806F

January 2[illegible] 1895.

Meas. of ζ Andromedae (Cont.)

Plate I 12064

8.7	a 2 v	8.9	9.0 = 8.95	
9.0	v 2 b	9.2		

Plate I 12133

9.2	b 4 v	9.6	9.6 = 9.60	
9.6	v 2 c	9.8		

Plate I 12176

9.2	b 4 v	9.6	9.7 = 9.65	
9.7	v 1 c	9.8		

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1894phae.proj..806F

January 28, 1895

Meas. of new variable star in Aquarius (No. 2)
R.A. 22h 10m.7 Dec. -21° 30' (Est. Appx. 1855) Up Mid on Pl. B 11794 No. 5405.

Plate B6327

			BD No.					
a	~~7.0~~ 6.5	8.0	-21°6197	22h	10m	36°.2	-21°	27'.3	7.7
b	~~8.0~~ 7.0	8.5	-21°6193	22	10	27.7	-21	43.3	8.6
c	7.6	9.1	-21°6194	22	10	31.9	-21	17.9	9.3
d	8.0	9.5	-21°6200	22	11	25.9	-21	31.3	9.5
e	8.3	9.8	~~-21°6203 22 11 50.8 -21 34.8~~						~~9.8~~
f	8.6	10.1	-21°6203	22	11	50.8	-21	34.8	9.8
g	8.8	10.3							
h	9.2	10.7							
k	9.6	11.1							
l	9.9	11.4							
var.	9.4		10.9 10.9 = 10.90						

7.28 8.8 1.3 1.5

10.7 k × 3 v 11.0 10.9 = 10.95
10.9 v 2 × h 11.1

Plate I 1403

9.8 e 2 v 10.0 9.9 = 9.95
9.9 v 2 f 10.1

Plate I 1426

9.8 e 2 v 10.0 9.9 = 9.95
9.9 v 2 f 10.1

Plate B4099

9.8 e 2 v 10.6 9.9 = 9.95
9.9 v 2 f 10.1

~~It was wrongly identified~~
Chase's Suspected var. which proved to be a planet was at first wrongly identified as star charted by Chase & looked up for variability on these Chart plates 1N03, 1N26, N132 N273 N294 N317 N322 N505 B327 B3N3 8038 10299 10510 10511 11821 13114 13271 13597 13833 13919 13951 B series examined & shows no evidence of variability.

See also star marked g on page 1N - Same as h on this page -

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1894phae.proj..806F

January 28, 1895

Meas. of new var. in (Cont).

Plate B4132

9.8 c 2 v 10.0 9.9 = 9.95
9.9 v 2 f 10.1

Plate B4273

10.3 g = .3 10.6
v n.s. < 10.6

Plate B4294

10.3 g 3 v 10.6 10.5 = 10.55
10.5 v 2 #1 k 10.7

Plate B4317

10.7 k 1 v 10.8 10.9 = 10.85
10.9 v 2 k/h 11.1

Plate B4372

10.3 g 4 v 10.7 10.7 10.8 = 10.73
10.7 v 0 k 10.7
10.8 v 3 k/h 11.1

Plate B4505

11.4 l = .3 11.7
v = .1 11.6 on limit of visibility.

Plate B6343

10.3 g = .3 10.6
v n.s. < 10.6

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1894phae.proj..806F

January 28, 1895

Meas. of new var. in (Cont.)

Plate B 8038

10.3 g = .1 10.4
v ns. < 10.4

Plate B 10298

9.1 c 4 v 9.5 9.3 = 9.40
9.3 v 2 d 9.5

Plate B 10510

9.1 c 3 v 9.4 9.3 = 9.35
9.3 v 2 d 9.5

Plate B 10511

9.1 c 3 v 9.4 9.3 = 9.35
9.3 v 2 d 9.5

Plate B 11794 (A)

8.5 b 1 v 8.6 8.6 = 8.60
8.6 v 5 c 9.1

Cl.

a K 5-9
b ℰ
c F
d ℰ
* e ℰ
var Md Hγ = 1.0 ; Hδ = 1.0

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1894phae.proj..806F

January 28, 1895.

Meas. of new var. in (Cont.)

Plate B 6327

a	6.5	8.0
b	7.0	8.5
c	7.6	9.1
d	8.0	9.5
e	8.3	9.8
f	8.5	10.0
g	8.8	10.3
h	9.2	10.7
k	9.5	11.0
l	9.9	11.4
var	9.3	

8.8 − 7.3 = 1.5 ; 7.28

10.8 10.9 = 10.85

10.7 k x 2 v 10.9 10.9 = 10.90

10.9 v 2 x k 11.1

Plate B 6327

a	6.5	8.1
b	7.0	8.6
c	7.5	9.1
d	7.9	9.5
e	8.3	9.9
f	8.5	10.1
g	8.8	10.4
h	9.1	10.7
k	9.5	11.1
l	9.9	11.5
var	9.3	10.9 10.9 = 10.90

8.8 − 7.2 = 1.6 ; 7.22

10.7 k x 2 v 10.9 10.9 = 10.90

10.9 v 2 x k 11.1

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1894phae.proj..006F

January 29, 1894/5

Examination of A.G.C. 25899 on photographic charts.

Plate Nos.	Date
I 1732	
I 2089	
B 6115	
B 10039	
B 10040	
B 4161	
B 9944	

These plates show no evidence of variation in A.G.C. 25899 since on all of them it is about 0.7 fainter than (a) DM -18° 5134 73 and about 0.2 brighter than (b) -18° 5136 90

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1894phae.proj..806F

30
January ~~29~~ 1895

Meas. of new var. star in Indus
Z.C. 20h15m9 R.A. 20h47m7s Dec. -54°47'.9 9½ (1875
Sp. Md on B 11684 (No. 5196).

Images poor

Plate B 11812

a	6.5	8.1	Z.C. 20h1829 20 46 48 -55 41.7 8
b	7.2	8.8	1658 20 51 29 -55 60 9
c	7.7	9.3	1598 20 49 17 -54 50.6 9
d	8.3	9.9	
e	8.8	10.4	
f	9.1	10.7	
g	9.4	11.0	
h	9.9	11.5	
k	10.4	12.0	

~~8.7~~ 7.13 ~~8.7~~ 7.1 1.6 ~~867~~

9.70 9.92 = 9.81
~~10.0 10.0 = 10.00~~ 11 11
10.00 9.92 = 9.96
~~10.1 10.0 = 10.05~~ 04 04
~~10.3~~ 10.22

var 8.5
9.70
~~9.8~~ d 3 v
9.92 ~~10.0~~ v 3 e

Plate B 3616

10.22
~~10.3~~ e = .1 10.22?
v = .1 ? 10.3? on limit of visibility

Plate B 3732

10.94 ~~11.0~~ g = .3 ~~11.3~~ 11.24
v n.s. ~~< 11.3~~

Plate 3453?

11.91 ~~12.0~~ k = .3 ~~12.3~~ 12.21
v n.s. ~~< 12.3~~

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1894phae.proj..806F

January 30, 1895.

Meas. of new var. star in Lindus

Plate B 3870

11.39 ✓
~~11.5~~ h = .4 ~~11.9~~ 11.79
v n.s. ~~2 11.9~~

Plate B 3879

✓
11.39 ~~11.5~~ h = .1 ~~11.6~~ 11.49
v n.s. ~~2 11.6~~

Plate B 4072

✓
11.91 ~~12.0~~ k = .4 ~~12.4~~ 12.31
v n.s. ~~2 12.4~~

Plate B 4572

✓
9.70 ~~9.8~~ d = .1 ~~9.9~~ 9.80
v n.s. ~~2 9.9~~

Plate B 6013

✓
10.94 ~~11.0~~ g 4 v ~~11.4 11.30~~ 11.34 11.19 = 11.26 08 07
11.19 ~~11.3~~ v 2 h ~~11.5~~ 11.39

Plate B 6037

✓
11.39 ~~11.5~~ h 2 v ~~11.7~~ 11.59 R
k n.s.

Plate B 6183

✓
11.91 ~~12.0~~ k = .1 ~~12.1~~ 12.01 R
v n.s. ~~2 12.1~~

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1894phae.proj..806F

January 30, 1894

Meas. of new var in Indus (Cont.)

Plate B 6255

10.22 ~~10.3~~ c = .1 ~~10.4~~ 10.32

v ns. ~~< 10.4~~

Plate B 6257

~~12.0~~ ~~12.0~~ v = k ~~12.0~~ ~~= 12.0~~

k = .1 on limit of visibility

Plate B 6559

9.70 ~~9.8~~ d = .4 ~~10.2~~ 10.1

v ns. ~~< 10.2~~

Plate B 8520

10.94 ~~11.0~~ g = .1 ~~11.1~~ 11.04

v ns. ~~< 11.1~~

Plate B 8530

11.91 ~~12.0~~ k = .2 ~~12.2~~ 12.11

v ns. ~~< 12.2~~

Plate B 8531

11.91 ~~12.0~~ k = .2 ~~12.2~~ 12.11

v ns. < 12.2

Plate B 9731

9.70 ~~9.8~~ d & v ~~10.2 10.1 = 10.15~~ 10.10 10.02 = 10.06

10.92 ~~10.1~~ v & c ~~10.3~~ 10.22 04 04

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1894phae.proj..806F

January 30, 1894 & 5

Meas. of new var. in Indus (Cont.)

✓ Plate B 10312

11.91 ~~11.0~~ k = .2 ~~12.2~~

v ~~N.S.~~ ~~12.3~~ 12.11

February 1, 1895

Plate B10047

a	6.4	8.2
b	6.9	8.7
c	~~7.4~~	9.2
d	~~6.8~~	9.6
e	~~8.2~~	10.0
f	8.7	10.5
g	9.1	10.9
h	9.6	11.4
K	10.2	12.0

8.7 / 6.9 / 1.8

✓ var 9.4 ~~11.3 11.3 = 11.30~~ 11.24 11.19 = 11.22 02 03

10.94 11.0 g 4 v ~~11.4 11.4 = 11.40~~ 11.34 11.29 = 11.32

11.29 11.4 v 1 h 11.5 11.39 02 03

✓ Plate B 11214 (Plates marked for pec.)

8.06 new dig. plate 8.1 a 2 ~~X~~ v ~~8.3 8.5 = 8.40~~ 8.26 8.46 = 8.36 10 10

8.46 ~~8.5~~ v 2 b ~~8.7~~ 8.66

✓ Plate 10314

11.91 ~~12.0~~ k = .3 ~~12.3~~ 12.21

v ~~N.S.~~ ~~= 12.3~~

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1894phae.proj..806F

February 1, 1895.

Meas. of new var. in Indus (Cont.)

Plate B10048

10.94 ~~11.0~~	g 4 r	~~11.4 11.4 = 11.40~~	11.34	11.29 = 11.32	02 03
11.29 ~~11.4~~	r 1 h	~~11.5~~	11.39		

Plate B11575

~~9.18~~ 9.2	R c 1 r	~~9.3~~	9.28	R =
	d not on plate			

Medge's plate. Tonk's focus. May be a triple brighter.

Plate B11805

9.70 ~~9.8~~	d 3 r	~~10.1 10.1 = 10.10~~	10.00	10.02 = 10.01	01 01
10.02 ~~10.1~~	r 2 e	~~10.3~~	: 10.22		

Plate B11684 Sp

a bl. A n=H,
b " GsK, K=H
c " H
d n.S.
var Md Hγ = 1.0 ; Hδ = 1.0

9.18 ~~9.2~~	c 5 r	~~9.7~~	9.68	R =
	d n.S.			

Plate B11812

a	6.4	8.1	f	9.3	11.0		
b	7.0	8.7	g	9.6	11.3		
c	7.6	9.3	h	10.0	11.7		
d	8.1	9.8	k	10.5	12.2		
e	8.8	10.5	var.	8.6	10.20 10.02 = 10.11 ~~10.3 10.1 = 10.20~~		

8.7 1.0 1.7

09 09

9.70 ~~9.8~~ d 4 r 10.10 9.92 = 10.01 ~~10.2 10.0 = 10.10~~

9.92 ~~10.0~~ r 3 e ~~10.3~~ 10.22

09 09

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1894phae.proj..806F

February 1, 1895

Meas. of new var in Indus (Cont.)

Plate B 10047

	a	6.3	8.1
6.87	b	6.9	8.7
8.7 − 6.9 = 1.8	c	7.4	9.1
	d	8.0	9.8
	e	8.5	10.3
	f	8.8	10.6
	g	9.1	10.9
	h	9.5	11.3
✓	k	10.0	11.8
	var	9.3	
10.94 ~~11.0~~		9 3 r	~~11.3 11.4 = 11.35~~ 02 03
11.29 ~~11.4~~		v 1 h	~~11.5~~ 11.39

11.14 11.19 = 11.16 02 03

~~11.2 11.3 = 11.25~~

11.24 11.29 = 11.26

Ord. B 10047 var ft.

Ord. B ~~10047~~ 11214 var br.

For Ident. see B ~~10047~~ 11812 ~~Meas position~~

Plate No	a	b	c	d	e	f	g	h	k
11812	8.1	8.8	9.3	9.9	10.4	10.7	11.0	11.5	12.0
"	8.1	8.7	9.3	9.8	10.5	11.0	11.3	11.7	12.2
10047	8.2	8.7	9.2	9.6	10.0	10.85	10.9	11.4	12.0
	8.1	8.7	9.1	9.8	10.3	10.6	10.9	11.3	11.8
	8.12	8.72	9.22	9.78	10.30	10.70	11.02	11.48	12.0

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1894phae.proj...006F

8

February X, 1895.

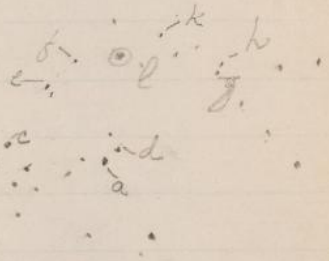
Meas. of Anderson's new variable star in Lyra
Re letter of Nov. 14, 1894 & accompanying chart.
Rd. 1895 $\alpha = 19^h\ 3^m$ Dec. $= +29°\ 26'$.
Stars examined as visibility confirmed Feb. 1895 E.C.P.

Plate I 11422

a	7.3	9.5	+29°3493	19	3.4	+29	16	9.3 9.9
b	7.7	9.9	3486	19	3.6	+29	14	9.2 9.7
c	8.0	10.2	3485	19	2.3	+29	16	9.2 9.7
d	8.3	10.5	3494	19	3.4	+29	17	9.5 10.5 / 9.95
e	8.7	10.9						
f	9.0	11.2						
g	9.2	11.4						
h	9.5	11.7						
k	9.9	12.1						
l	10.3	12.5						

33/1.8 v

10.0 / 1.8 / 2 v.



vm 8.2 10.3 10.4 = 10.35

10.1 c 3 v 10.4 10.4 = 10.40

10.4 v 1 d 10.5

Plate I 11188

11.7 h = 1 2 11.9

v n.s. L 11.9

Plate I 11330

11.1 f 3 v 11.4 11.3 = 11.35

11.3 v & g 11.4

Plate I 11200

11.7 h = 3 12.0

v n.s. L 12.0

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1894phae.proj..806F

February 1, 1895.

Examination of photographic chart for confirmation of supposed comet announced by

I 12226 69 shows object in region marked but this is also shown on I 8352 and proves to be the known nebula N.G.C. 2683 in Rd = 8h 43m 59s Dec = 33° 56.6 (1860).

February 8, 1895

Discov. of Anderson's new var. in Lyra (Cont.

Plate I 6651

11.4 g = 1.4 11.8
for m.s. < 11.8

Plate I 8872

11.1 f 2 v 11.3 11.2 ∥ 11.25
11.2 v 2 g 11.4

Cont. on p. 55

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1894phae.proj..806F

February 8, 1895.

Meas. of Anderson's new var. in Lyra (Cont.)

Plate I 9281

a	7.0	9.6
b	7.2	9.8
c	7.6	10.2
d	8.0	10.6
e	8.3	10.9
f	8.6	11.2
g	8.9	11.5
h	9.2	11.8
k	9.5	12.1
l	10.0	12.6

18 / 1.45

10.0 / 1.4 / 2.6

var 7.8 ~~1 v b 10~~ 9.8 10.0 9.9 = 9.95

9.8 ~~2 3 c~~ b 1 v 9.9 9.8 = 9.85

9.8 v 3 c 10.1

Plate I 11 V V 1

10.8 e 3 v 11.1 11.0 = 11.05

11.0 v 1 f 11.1

Plate I 11423

a	7.4	9.6
b	7.6	9.8
c	7.9	10.1
d	8.2	~~9.4~~ 10.4
e	8.5	~~9.7~~ 10.7
b	8.8	11.0
g	9.1	11.3
h	9.5	11.7
k	9.8	12.0
	10.4	var. 8.3

31 / 7.18

10.0 / 1.8 / 2.2

10.6 10.6 = 10.60

10.5 d 2 v 10.7 10.6 = 10.65

10.8 v 2 c 10.8

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1894phae.proj..806F

February 8, 1895.

Meas. of Anderson's new var. in Hya. (Cont.)

Plate I 11422

a	7.2	9.5
b	7.4	9.7
c	7.8	10.1
d	8.2	10.5
e	8.5	10.8
f	8.8	11.1
g	9.1	11.4
h	9.5	11.8
k	9.8	12.1
l	10.3	12.6
var	8.3	

28/10

100 / 7.1 / 23

10.6 10.6 = 10.60

10.1 c 3 v 10.4 10.5 10.5 = 10.47

10.5 v o d 10.5

10.5 v ~~d~~ 3 e 10.8

Plate I 11423

a	7.4	9.6
b	7.6	9.8
c	7.9	10.1
d	8.2	10.4
e	8.5	10.7
f	8.8	11.0
g	9.1	11.3
h	9.4	11.6
k	9.8	12.0
l	10.2	12.4
var	9.4	10.7 10.7 = 10.70

31/7.8

100 / 7.8 / 22

10.5 d 2 v 10.7 10.6 = 10.65

10.6 v 2 e 10.8

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1894phae.proj..806F

February 8, 1895.

Meas. of Andersons Nov var. in Lyra (Cont).

Plate I 9281

a	7.3	7.2	9.6
b	7.5	7.4	9.8
c	7.8	7.7	10.1
d		8.0	10.4
e		8.3	10.7
f		8.6	11.0
g		9.0	11.4
h		9.3	11.7
k		9.7	12.1
l		10.2	12.6
var		7.4	9.8 9.8 9.8 = 9.80

23/58

100
1.6
2.4

9.8 b 1 v 9.9 9.8 = 9.85

9.8 v 3 c 10.1

Meas. position on pl. I 9281

Plate

1894phae.proj..806F

February 8, 1895.

Meas of position of Andersons new var. in Lyra.

Plate I 9281.

Mean Dec. = +29° 27.1 = Log. 0.060009
1.03623
1.09632

	X	Y	X	Y	BDM	Ra 1855	Dec.
	For Adj stars.	0.72				h m s	
1	0.75	0.75	0.75	0.70	+29 3486	19 2 38.1	+29 13.7 9.2
2	4.25 4.28	10.70	4.30	10.70	+29° 3492	19 3 22.3 23.6	+29 40.6 16.0 9.3 8.1
3	4.30 4.32	1.55	4.35	1.55	+29° 3493	19 3 23.6	+29 16.0 9.3
4	7.70 4.38	9.65	7.70	9.65	+29° 3498	19 4 4.6	+29 38.0 9.2
	var 4.40	5.20	4.35	5.20			

Diff. X	-3.63	-0.10	-0.06	3.32	Diff y.	-4.48	5.50	-3.65	4.45
Log. Diff X.	0.55991	9.00000	8.77815	0.52114	× 163	730.24	896.50	594.95	725.35
	1.09632	1.09632	1.09632	1.09632		12' 10.24	14' 56.50	9' 54.95	12' 5.35
	1.65623	10.09632	9.87447	1.61746					
No. of Log.	45.31	1.25	7.49 .75	41.44					

(1) 19h 2m 38.1s +29° 13.7′ (2) 19h 3m 23.6 22.3s +29° 40.6 16.0′ (3) 19h 3m 26.8 23.6s +29° 16.0′ (4) 19h 4m 4.6s +29° 38.0′

+45.3	+12.2	+1.2	-14.9
19h 3m 23.4s	+29° 25.9′	19h 3m 24.8 23.5s	+29° 25.7′

+.8	+9.9	-41.4	-12.1
19h 3m 24.4s	+29° 26.9 25.9′	19h 3m 23.2s	+29° 25.9′

Mean Position of Var. 19h 3m 23.6s +29° 25.8′ (1855)

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1894phae.proj..806F

February 13, 1895

Meas of new variable star in Pleiades
Dyl. 5429 4h 43m.5 -49°.25 (1900) magn. 8.
Spectrum Md on pl. B 12016 No VI.

Plate B 4290

b		V,V	7.9						
c		V.V	8.3						
d		V.V	8.5						
e		V.V	9.0						
f		7.3	9.7						
g		7.8	10.2						
h		8.2	10.6						
k		8.7	11.1						
l		9.2	11.6						
m		9.5	11.9						

var 6.0 8.4 8.4 = 8.40 0,0.

7.8 V 3 V 8.1 8.3 8.2 = 8.20 1.10

7.98 8.3 V 0 V 8.3 7.98

7.88 8.7 V 2.3 V 8.5 7.98

Plate B 4289

7.98 8.3 V 2 V 8.5 8.4 = 8.45 .05 .05

7.88 8.4 V 1 V 8.5 7.98

b		7.0	7.9	g		9.2	10.1		
c		7.4	8.3	h		9.5	10.4		
d		7.9	8.5	k		9.8	10.7		
e		8.2	9.1	l		10.2	11.1		
f		8.7	9.6	m					

var. 7.6 8.5 8.5 8.5 = 8.50 0.0.0

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1894phae.proj..806F

February 13, 1895

Meas. of new var. in Victor (Cont.)

Plate B 4346

7.98 8.3	y 3 v	8.5	8.5	8.6	= 8.53	03	03	07
7.98 8.26 8.5	v 0 d	8.5	7.98	8.26				
8.6 7.76 8.06	v 5 e	9.1	8.26					

Plate B 4393

near edge of plate 7.98 8.26 8.5	d 1 v	8.6	8.6	= 8.60		00		
8.6 7.76 8.06	v 5 e	9.1	8.26					

Plate B 5803

8.26 7.98 8.5	d 3 v	8.8	8.9	= 8.85		05	05	
8.9 8.26 3	v 2 e	9.1	8.26					

Plate B 7085

7.98 8.3	c 3 v	8.6	8.5	8.7	= 8.60	01	1	
near edge of plate 8.5 7.98 8.26 8.7	v 0 d	8.5	7.98	8.26				
8.1	v 4 e	9.1	8.26					

Plate B 8679

8.26 7.98 8.5	d 1 v	8.6	8.7	= 8.65		05	05	
8.7 8.6 8.16	v 4 e	9.1	8.26					

Plate B 8679

7.98 8.3	c 3 v	8.6	8.5	8.6	= 8.57	03	07	13
7.98 8.26 8.5	v 0 d	8.5	7.98	8.26				
8.6 7.76 8.0	v 5 e	9.1	8.26					

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1894phae.proj..806F

February 13, 1895

Meas. of new variable Pictor (Cont).

Plate B 8853

9.1	a	4	v	9.5	9.5 = 9.50	0,0 . .16
9.6	f	8	off plate			
9.5	v	5	f	10.0		

Plate B 20677

8.5	d	8	5	v	9.0 9.0 = 9.00	0,0
9.0	v	1	d			"d" on edge of plate

Plate B 21977

8.1	v	10	a	9.1	= 8.1	other comp. stars not on plate

Plate B 21665

8.3	c	1	v		8.4 8.3 = 8.35	.01 .01 .05, .05
8.3	v	2	d		8.5	

a	6.1	7.9
c	6.5	8.4
d	6.8	8.6
e	7.2	9.0
f	7.5	9.3
g	7.9	9.7
h	8.3	10.1
k	8.5	10.3
l	8.9	10.7
m	9.2	11.0
var.	6.7	

8.1 8.16 8.17 .01 .01
7.98 7.88 7.93
8.5 8.4 = 8.45 .01, .05

8.7 − 6.4 = 1.8

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1894phae.proj..806F

February 13, 1895.

Meas. of New var. near Pleiad (Cont).

Plate B12216

7.86 ~~d b~~ 8.36
8.5 v 6 d 9.1 = 8.5 other br. comp. stars not on plate

Plate B12219

7.98 8.26 7.98 8.26 8.11 .03 .13 .15
8.3 A 3 v 8.6 8.5 8.4 = 8.50 1,0,1.
7.98 8.5 v 0 d 8.5 7.98 8.26
8.26
8.4 v 7 d 9.1 8.36
8.36
7.98

Plate B B12334

8.26 7.98 8.86 8.36 .16 .16
8.5 d A 4 v 8.9 8.9 = 8.90 0,0.
8.9 v 2 d 9.1 8.36
8.86
3

Relative y lines & Pleiades.

	1st type	var.	
H	6.51	3.76	+.25
γ	.23	3.52	.29
δ	.06	3.36	.30
Σ	5.95	3.22	.27
K	.92		
5	.89		
2	.63		

Cont. on p 64

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1894phae.proj..806F

February 14, 1894.

Means of new var. in Pictor (cont.)

Plate B 4290

b	5.6	7.8	
c	6.0	6.2	5.95
d	6.3	8.5	
e	7.0	9.2	
f	7.5	9.7	
g	8.0	10.2	
h	8.4	10.6	
k	8.8	11.0	
l	9.3	11.5	
m	9.7	11.9	8.1 7.98 8.16 7.88 8.17 7.93 .05 .05
var	6.2	8.5 84 = 8.45	
c	8.1	8.4 83 = 8.35	.05 .05
d	8.3	8.5	

8.2 − 6.0 = 2.2

Plate B 4289

b	7.0	7.8	
c	7.4	8.2	7.35
d	7.7	8.5	
e	8.3	9.1	
f	8.7	9.5	
g	9.2	10.0	
h	9.6	10.4	
k	9.9	10.7	8.1 8.18 8.16 7.88 8.17 7.93 .05 .05
l	10.4	11.2	
m	7.5	8.5	8.18 7.98 8.16 7.88 8.17 7.93 .01 .05 .05
var.	7.6	8.5 84 = 8.45	
d		8.5 7.98 8.26	

8.2 − 7.4 = 0.8

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1894phae.proj..806F

February 14, 1894.

Meas. of new var star in Victor (Cont.)

Plate B12166

b	5.9	7.8
c	6.3	8.2
d	6.7	8.6
e	7.3	9.2
f	7.8	9.7
g	8.2	10.1
h	8.5	10.4
k	8.8	10.7
l	9.2	11.1
m	9.5	11.4

8.2 6.3 1.9

6.3°

8.16 8.22 .06 .06
2 8 7.88 = 7.98 +0 +0

var. 6.6 8.6 8.4 = 8.50

7.98 c
8.3 b
7.78 8.3 d
8.06

8.0 8.08 8.07
7.88 7.78 7.83 .01' .01'
8.4 8.3 = 8.35

8.5 7.98 8.24

8.1 9.6 8.04 .14 .06 .08
7.98 7.98 7.68 = 7.81 .17 .03 .13
8.2 8.3 8.2 = 8.23 .03, .07, .03

Plate B12016 Sp. 24 r, v o b c r 3 e d.

Print End. 4289 +2166. 8853

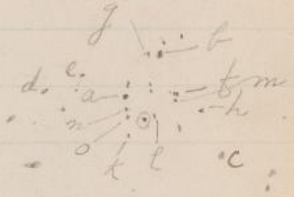
1894phae.proj..006F

February 15, 1895.

Meas. of new variable star in Scorpius
R.A. $17^h 35^m.2$ Dec. $-43° 41'$ (appx. 1900)
Spectrum Md on plate B 12222 No. 5778.

Plate B 5394

~~v~~	a	4.5 = 4.8	8.2	~~2356~~	~~17 34.5 -43 45.3~~	~~9½~~
3 =	b	4.8 = 5.1	8.5	2276	17 33.4 -43 30.3	8
4	c	5.3	8.7	2356	17 34.5 -43 45.3	9½
5.42	d	5.8	9.2	2144	17 31.5 -43 34.9	9
	e	6.1	9.5	2179	17 32.1 -43 33.0	8½
						8.80
8.8 5.4 3.4	f	6.7	10.1			
	g	7.3	10.7			
	h	7.8	11.2			
	k	8.4	11.8			
	l	8.8	12.2			
	m	9.0	12.4			
	n	9.4	12.8			
	o	9.8	13.2			



64 62 01 02
~~51~~ ~~58~~ .07 .06
raw. 7.5 10.6 10.6 4 = 10.60 0,0.

10.41 g 3 v 10.7 10.74 = 10.72 0,0. .01 .02
10.74 v 2 h 10.94

Plate B 3783

9.42 e 5 v 9.92 9.89 10.01 = 9.93 4 0⅗, 2 0⅗, 5 07.
9.89 v o f 9.89
10.01 v 4 g 10.41

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1894phae.proj..806F

February 15, 1895.

Meas. of new var. in (Cont.)

Plate B 3784

9.42 e 5 v 9.92 9.879 = 9.856 05, 05

9.879 v 1 f 9.989

Plate B 3812

9.42 e 4 v 9.82 9.879 = 9.80 00,00 .02 .01

9.879 v 1 f 9.989

Plate B 3833

9.42 e 2 v 9.62 9.659 = 9.60 0,0 .02 .01

9.659 v 3 f 9.989

Plate B 3851

9.42 e 4 v 9.82 9.769 = 9.756 05, 05

9.769 v 2 f 9.989

Plate B 3861

9.42 e 2 v 9.62 9.659 = 9.60 .02 .01 0, 0.

9.659 v 3 f 9.989

Plate B 3867

9.42 e 1 v 9.52 9.549 = 9.50 02 .01 00.

9.549 v 4 f 9.989

Plate B 3876

9.42 e 1 v 9.52 9.549 = 9.50 .02 .01 00

9.549 v 4 f 9.989

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1894phae.proj..806F

February 15, 1895.

Meas of Nov Var. in Scorpius (Cont.)

Plate B 3959

modify plate 9.529 v 6 f 9.989 = 9.329

e not on plate

Plate B 4096

9.42e 3 v 9.729.659 = 9.656 05, 05.

9.859 v 3 f 9.989

Plate B 5150

10.94 k 4 v 11.34 11.42 = 11.358 04, 04.

11.42 v 1 k 11.52

Plate B 5393

10.41 g 4 v 10.81 10.74 = 10.758 03, 04

10.74 v 2 k 10.94

a	4.6	4.9	8.2
b	5.0	~~5.3~~ 5.0	8.6
c	~~5.5~~	~~5.5~~	8.8
d		5.8	9.1
e		6.2	9.5
f		6.8	10.1
g		7.3	10.6
h		8.0	11.3
k		8.7	12.0
l		9.2	12.5
m		9.4	12.7
n		9.8	13.1
o		10.3	13.6
var		7.7	

10.81 10.64 = 10.732 09, 08.

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1894phae.proj..806F

February 15, 1895.

Meas. of new var in Scorpius (Cont.)

Plate B 5950

11.52 k = .3 11.82

v ns. < 11.82

Plate B 5951

10.41 g = .3 10.7

v ns. < 10.71

Plate B 5964

12.22 m 3 v 12.52 12.44 = 12.48 .05 .05

12.44 v 2 n 12.64

Plate B 5966

11.987 k = .3 12.2

v ns < 12.217

Plate B 7421

10.94 h = .2 11.1

v ns. < 11.14

Plate B 7817

10.41 g 4 v 10.81 10.84 = 10.828 .01 .02

10.84 v 1 h 10.94

Plate B 7878

10.41 g 4 v 10.81 10.84 = 10.829 .01 .02

10.84 v 1 h 10.94

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1894phae.proj..806F

February 15, 1894.

Meas. of new var in Scorpius (Cont).

Plate Bg165

10.94 k = .3 11.1
v ns. < 11.24

Plate Bg282

12.22 m 5 v 12.72 12.54 = 12.64 3 09 .09
12.54 v 1 m 12.64 10, 10

Plate Bg283

11.55 k = .1 11.6
v ns. < 11.62

Plate Bg407

a	5.9	8.2
b	6.2	8.5
c	6.5	8.8
d	6.9	9.2
e	7.2	9.5
f	7.6	9.9
g	8.1	10.4
h	8.7	11.0
k	9.2	11.5
l	9.5	11.8
m	9.9	12.2
n	10.4	12.7
o	ns.	
v	10.5	12.74 12.64 n 1 v 12.74
		0 ns.

6.54

8.8 6.5/2.3

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1894phae.proj..806f

February 15, 1895

Meas. of new var. in Scorpius (Cont.)

Plate B 9408

12.22 m = 12 12.4

v ns. < 12.42

Plate B 9686

11.5 v = k = 11.52

l ns.

Plate B 11284

11.987 l = 4 12.327

v ns. < 12.327

Plate B 11344

11.987 l = 12 12.1

v ns. < 12.107

Plate B 11345

a	6.9	~~8.5~~ 8.3		m 10.4	~~12.0~~ 11.8	
b	7.2	~~8.8~~ 8.6		n ns.	7	
c	7.4	~~9.0~~ 8.8		o ns.	7	
d	7.7	~~9.3~~ 9.1		var ns.	< 11.8	
e	8.0	~~9.6~~ 9.4			< 12.[illegible]	
f	8.4	10.0	9.8			
g	8.9	~~11.5~~ 10.3				
h	9.3	10.9	10.7			
k	9.8	~~11.4~~ 11.2				
l	10.0	~~11.6~~ 11.4				

1.44

8.8 − 7.4 / 1.4

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1894phae.proj..8065

February 15, 1894.

Meas. of new var. in Scorpius (Cont.)

Plate B 11346

11.52 k = .1 11.6

v ns. < 11.62

Plate B 11347

10.94 k = .4 11.3

v ns. < 11.34

Plate B 11419

12.22 m, v 12.32

v ns. < 12.32

Plate B 11631

10.94 k 4 v 11.34 11.42 = 11.358 $0\underline{5}^{4}$, 05^{4}.

11.42 v, k 11.52

Plate B 11633

10.94 k 2 v 11.14 11.22 = 11.158 $0\underline{5}^{4}$, 05^{4}.

11.22 v 3 k 11.52

Plate B 11902

10.41 g 3 v 10.71 10.74 = 10.702 $\frac{01}{00}$ .02

10.74 v 2 k 10.94

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1894phae.proj.:806F

February 15, 1894.

Meas. of new var. in Corpus (Cont).

Plate B 12222 Jr.

a bl. A
b " K
c " A(K=H).
d " I
e " H
f " ars.
var " Nd

9.42 e 5 v 9.92
f ns.

Plate B 6877 (meas. position).

a	6.4	8.7	8.4
b	6.6	8.9	8.6
c	6.7	9.0	8.7
~~6.54~~ 6.84 d	7.1	9.4	9.1
e	7.4	9.7	9.4
8.8 6.8 2.80 f	7.7	10.0	9.7
g	8.2	10.5	10.2
h	~~9.1~~ 8.7	11.0	10.7
k	~~10~~ 9.3	11.6	11.3
l	9.6	11.9	11.6
m	10.1	12.4	12.1
n	ns		
o	ns		
var	75	95 9.7 69 = 9.60	10, 10.

.08 .09

9.42 e 2 v 9.63 9.59 = 9.60 00

.02 .01

9.659 2 3 f 9.989

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1894phae.proj..806F

February 15, 1895.

Meas. of new var. in Serpens (Cont.)

Plate B 5394

a	4.5 - 4.8	8.1
b	4.8 - 5.1	8.4
c	5.0 - 5.2	8.5
d	5.6	8.9
e	5.9	9.2
f	6.4	9.7
g	6.9	10.2
h	7.4	10.7
k	8.0	11.3
l	8.4	11.7
m	8.8	12.1
n	9.2	12.5
o	9.8	13.1
var.	7.5	~~10.9~~ 11.0

5.52

88 / 5.6 / 3.3

11.04 11.02 = 11.03 .01 .01

~~10.8~~

~~10.95 05 05~~ = 11.0 00 00

10.841 94 v 1 10.841 10.84 = ~~10.88~~ 10.842 00 .01 .02

10.84 v 1 h 10.94

Lond B 9407 var. pt.

" 3883 var. br.

Meas. pos. on B 6877.

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1894phae.proj.0066

February 18, 1895.

Meas. of Anderson's variable star T Andromedae

Plate I 12133 (Second meas.)

~~8.84~~ ~~9.2~~ b 3 v ~~8.84~~ 9.5 9.7 = 9.60
9.7 v 2 c ~~9.8~~ "

Plate I 12176 (Second meas).

9.2 b 3 v 9.5 = 9.60
9.7 v 2 c 9.8

Plate I 12275

10.3 d 4 v 10.7 10.9 = 10.80
10.9 v 1 c 11.0

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1894phae.proj..806F

February 20, 1895

Second meteor by Pandora. B 12275

M, 7, obs. Pace.

10.3 d 5 v 10.8 10.9 = 10.85

10.9 v 1 e 11.0

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1894phae.proj.-806F

February 20, 1895.

Meas of new variable star in Telescopium (No 2.
RA 20h 5.7m Dec -47° 23' (Est. 1875).
Sp. Md on Plate B 12270 No. 5910.

Plate B 4081

12,42

# =	a	4,4	4.7	7.4	27536	20	1.9	-47	22 6.6
a =	b	5,5	8.2	10.7		20	2.55	-47	26 8½
b =	c	5.9	8.6	27604		20	4.9	-46	46 8½
f =	d	6.4	9.1	~~27614~~		20	6.4	-47	57 9½
	e	6.7	9.4						
	f	7.0	9.7						
	g	7.6	10.3						
	h	8.0	10.7						
	k	8.7	11.4						
	l	8.9	11.6						
	m	9.3	12.0						
	n	9.7	12.4						
	o	10.1	12.8						

5.62 — 8.28

83 / 5.6 / 2.7

var 8.4 11.0 10.8 10.95 15, 15

10.53

10.6 h 5 v 11.1 10.9 = 11.0 10, 10 ~~11.03 10.80 = 10.94 09 09~~

~~10.85~~ 10.9 v 2 k 11.1 ~~11.05~~

Plate B 3580

10.6 h 5 v 11.1 11.0 = 11.05 05, 05.

11.0 v 1 k 11.1

Plate B 3581

10.6 h 5 v 11.1 10.9 = 11.0 ± 10, 10.

10.9 v 2 k 11.1

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1894phae.proj..806F

February 21, 1895

Meas. of new var in Telescopium (No. 2) (Cont.)

Plate B 3731

a	4.4	4.7	7.5
b		5.3	8.1
c		5.8	8.6
d		6.1	8.9
e		6.3	9.1
f		6.6	9.4
g		7.2	10.0
h		7.6	10.4
k		8.2	11.0
l		8.3	11.1
m		8.7	11.5
n		9.3	12.1
o		9.9	12.7
var.		7.9	10.9 10.8 = 10.85 05, 05.

548

8.3 5.5/28.

10.6 h 3 v 10.9 10.8 = 10.85 05, 05

10.8 v 3 k 11.1

Plate B 4352

8.2 b 3 v 8.5 8.5 = 8.50 00

8.5 v 2 c 8.7

Plate B 4355

8.2 b 2 v 8.4 8.3 = 8.35 05, 05.

8.3 v 4 c 8.7

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1894phae.proj..806F

February 21, 1895

Meas. of new var. in Telescopium (No. 2) (Cont.)

Plate B 4359

8.2 b 2 v 8.4 8.3 = 8.35 05, 05.

8.3 v 4 c 8.7

Plate B 5246

11.6 m = .2 11.8

v ns < 11.8

Plate B 5247

12.5 0 = .3 12.8

v ns. < 12.8

Plate B 5940

10.6 h = .2 10.8

v ns. < 10.8

Plate B 6138

10.6 h = .4 11.0

v ns. < 11.0

Plate B 6139

10.6 h = .1 10.7

v ns. < 10.7

Plate B 6166

9.7 f = .4 10.1

v ns. < 10.1

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1894phae.proj..806F

February 21, 1895.

Mens. of new var. star in Telescopia (No. 2) (Cont.)

Plate B6595

9.7 f -.4 10.1
r n.s. < 10.1

Plate B6682

10.2 g -1.2 10.4
r n.s. < 10.4

Plate B7422

8.2 f 4 r 8.6 8.5 = 8.55 05, 05
8.5 r 2 c 8.7

Plate B9219

	a	5.8	7.3
6.85	b	6.7	8.2
	c	7.2	8.7
8.3 6.8 / 1.5	d	7.7	9.2
	e	8.0	9.5
	f	8.3	9.8
	g	8.8	10.3
	h	9.1	10.6
	k	9.6	11.1
	l	9.8	11.3
	m	10.2	11.7
	n	10.5	12.0
	o	Soft for comp F.	12.0 n r 12.1 12.0 = 12.05 05, 05
	VIII	10.6	~~12.0~~ 12.1 12.0 r 50 12.5

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1894phae.proj..806F

February 21, 1895

Meas. of new var. star in Telescopic (Hoz) (Cont.)

Plate B9728

8.2 b 5 v 8.7 8.6 = 8.65 05, 05
8.6 v 1 c 8.7

Plate B9732

8.2 b 5 v 8.7 8.6 = 8.65 05, 05
8.6 v 1 c 8.7

Plate B9866

8.2 b 6 v 8.8 8.6 = 8.70 10, 10
8.6 v 1 c 8.7

Plate B9925

8.2 b 6 v 8.8 8.6 = 8.70 10, 10
8.6 v 1 c 8.7

Plate B9926

8.2 b 6 v 8.8 8.6 = 8.70 10, 10
8.6 v 1 c 8.7

Plate B11645

11.2 b 5 v 11.7 11.5 = 11.60 10, 10
11.5 v 1 m 11.6

Plate B11968

11.2 b 5 v 11.7 11.5 = 11.60 10, 10
11.5 v 1 m 11.6

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1894phae.proj..806F

February 21, 1895

Meas. of new var. in Telescopium (No. 2) (Cont.)

Plate B 12176

8.7	c 5 v	9.2	9.1	9.1	= 9.13	07, 03, 03.
9.1	v o d	9.1				
9.4	v 3 e	9.4				

Plate B 12178

8.9	v 2 d	9.1	= 8.9	
	c to near edge of pl. for comparison			

Plate B 12142

a	5.6	7.3				
b	6.5	8.2				
c	7.1	8.8				
~~b~~ 6.62 d	7.5	9.2				
8.3 6.6 / 1.7 e	7.8	9.5				
f	8.1	9.8				
g	8.5	10.2				
h	8.8	10.5				
k	9.1	10.8				
l	9.2	10.9				
m	9.5	11.2				
n	9.9	11.6				
o	10.3	12.0				
var	7.4		9.0	9.0	= 9.00	0 0
8.7	c 3 v		9.0	9.1	9.0 = 9.03	03, 07, 03
9.1	v o d		9.1			
9.0	v 4 e		9.4			

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1894phae.proj..806F

February 21, 1895

Meas. of new var. in Telescopium (Cont.)

Plate B 12270

a Bl. K
b " 7
c " 7
d " H
e " H7
f n.s.

Var. M2 Hγ = 1.0 Hδ = 1.0

8.2 b 3 v 8.5 8.4 = 8.45 .05, .05.

8.4 v 3 c 8.7

Gnl B9728 Var. be.
" 3731 var. ft,
Ident. by 4081. Comp! stars marked
pres pos. on B ~~4412~~ 12142

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1894phae.proj..806F

February 22, 1895.

Examination of Photographic Charts.
for CDM -24° 4062 magn. 6.3. Not in
A.G.C. or Y.C. Rd 6 22 58.7 -24 54.7 (1875).

Photographic charts taken on
(B 4626) Nov. 13, 1889 (10487) Oct 24, 1893 and
(10488) Oct. 24, 1893 show no evidence of variation
in this star it being always fainter than
CDM -25° 5241, 9.1 and brighter than CDM. -25° 5245, 10
The magn is probably 9.3 the 9 being inverted in
printing. Its magn. according to the CDM
atlas is also about 9.3

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1894phae.proj..806F

March 1, 1895.

Meas. of new variable star in Gem.
R.A. 21h 42m Dec. -47° 23' (Approx 1900)
Sp. Md on pl B. 12056 No. 5632

Plate 10190

a	6.4	7.7	29831	21 42.3	-47 4	7.0
b	6.9	8.2	29757	21 40.4	-46 51	7.5
c	7.4	8.7	1317	21 41 52	-47 11.2	9½
d	7.6	8.9				
e	7.8	9.1	3.9.1212	21 39.7	-47 1.6	9½
f	8.2	9.5				
g	8.5	9.8				
h	~~8.7~~ 8.8	10.1				
k	9.3	10.6				
l	9.7	11.0				
m	10.2	11.5				

7.12

8.4 7.1 1.3

8.38

10.41 10.51 = 10.46

var 8.9 10.5 ~~10.5 = 10.50 00~~ 05 05

10.51 10.61 = 10.56

10.31 ~~10.4~~ h2v ~~10.6 10.6 = 10.60 0 0~~ 05 05

10.61 10.6 v3k ~~10.9~~ 10.91

For identif of comp stars see also B 6564

Plate B3620

10.31 ~~10.4~~ h = 1 ~~10.5~~

v ns ~~10.5~~ 10.41

Plate B 3621

10.31 ~~10.4~~ h = 1 ~~10.5~~

v ns. ~~10.5~~ 10.41

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1894phae.proj..806F

March 1, 1895.

Meas. of new var. in Gms. (Cont).

Plate B 3822

10.91 ~~10.9~~ Pk = .2 ~~11.1~~ 11.11

v ns. ~~11.1~~

Plate B 3823

11.36 ~~11.4~~ l = .1 ~~11.5~~

v ns. ~~11.5~~ 11.46

Plate B 3828

11.36 ~~11.4~~ l = .3 ~~11.7~~ 11.66

v ns. ~~11.7~~

Plate B 3846

11.98 ~~12.2~~ m_{pg} = .2 ~~12.4~~ 12.08

v = .1 ~~12.4~~

Plate B 3847

11.98 ~~12.2~~ m_{pg} = .3 ~~12.5~~ 12.18

v = .1 ~~12.5~~

Plate B 3881

11.98 ~~12.2~~ m = .1 ~~12.3~~ 12.08

v ns. ~~12.3~~

Plate B 4199

11.36 ~~11.4~~ l = .2 ~~11.6~~ 11.56

v ns. ~~11.6~~

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1894phae.proj..806F

March 1, 1895

Meas. of New var. in Grus (Cont.)

Plate B4301

10.31 ~~+0.4~~ h = 1 ~~+0.5~~ 10.41
v n.s. ~~Σ+0.5~~.

Plate B4363

11.36 ~~+1.4~~ h = 3 ~~+1.7~~ 11.66
v n.s. ~~Σ+1.7~~

Plate B5409

11.36 ~~+1.4~~ h 5 v ~~+1.9 +1.9 = +1.90 00~~ 11.86 11.88 = 11.87 01 01
11.88 ~~+1.9~~ v 1 m ~~+2.0~~ 11.98

Plate B6005

11.36 ~~+1.4~~ h = 4 ~~+1.8~~ 11.76
v n.s. ~~Σ+1.8~~

Plate B6231

10.31 ~~+0.4~~ h = 1 ~~+0.5~~ 10.41
v n.s. ~~Σ+0.5~~

Plate B6232

11.36 ~~+1.4~~ h = 4 ~~+1.8~~ 11.76
v n.s. ~~Σ+1.8~~

Plate B6233

9.99 ~~+0.0~~ g = 1 ~~+0.1~~ 10.09
v n.s. ~~Σ+0.1~~

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1894phae.proj..806F

March 1, 1895.

Meas. of new var. in Grus (Ant.)

near edge of plate

Plate B6317

10.31 ~~10.4~~ ✓ h = 4 ~~10.8~~ 10.71

r n.s. ~~< 10.8*~~

Plate B6564

a	5.4	7.6
b	5.9	8.1
c	6.7	8.9
d	6.9	9.1
e	7.0	9.2
f	7.5	9.7
g	7.8	10.0
h	8.0	10.2
k	8.8	11.0
l	9.3	11.5
m	10.0	12.2
var	n.s.	< 12.2

6.25 8.4 6.2 / 2.2

Plate B8719

8.73 ~~8.8~~ ✓ v 2 d ~~8.9 9.0 = 8.8~~ 8.73

other comp. stars not on plate.

Plate B9919

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1894phae.proj..806F

March 1, 1895.

Meas. of new var. in Gms (Cont.)

Plate B 9919

a	5.6	7.5
b	6.1	8.0
c	7.1	9.0
d	7.0	8.9
e	7.3	9.2
f	7.7	9.6
g	8.2	10.1
h	8.6	10.5
k	9.2	~~+2~~ 11.1
l	9.7	~~+2.6~~ 11.6
m	10.3	~~+3.2~~ 12.2

6.52

84
6.5
1.9

11.76 11.78 = 11.77 01 01

J var 10.1 ~~+1.8 11.8 = 11.80 00~~

J 11.36 ~~+1.4~~ l 4 v ~~+1.8 11.8 = 11.80 00~~ 11.76 11.78 = 11.77 01 01

11.78 ~~+1.8~~ v 2 m ~~+2.0~~ 11.98

J Plate B 9925

11.36 ~~+1.4~~ l = 4 ~~+1.8~~ 11.76

v = 1 ~~+1.7 = +1.7~~ 11.66

J Plate B 10189

9.99 On edge of plate

10.0 ~~+0.0~~ 9 3 v ~~+0.3 +0.4 = +0.25 05 05~~ 10.29 10.21 = 10.25 04 04

10.21 ~~+0.2~~ v 1 h ~~+0.4~~ 10.31

J Plate B 11220

11.36 ~~+1.4~~ l = 2 ~~+1.6~~ 11.56

v N.S. ~~+1.6~~

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1894phae.proj..806F

March 1, 1895

Meas. of new var. in Iris (Contin.)

Plate B 12050

a	bl	K	
b		K	
c		ns.	
d		H	
e		a	
f		ns.	
✓	var.	Nd	8.53 8.13 = 8.33 20 20
8.03	~~8.1~~	b 5 v	~~8.6 8.2 = 8.40 20 20~~
8.13	~~8.2~~	v 8 d	~~9.0~~ 8.93

Plate B. 8720

a	5.4	7.5
b	5.9	8.0
c	6.8	8.9
d	6.9	9.0
e	7.0	9.1
f	7.6	9.7
g	8.1	10.2
h	8.5	10.6
k	9.0	11.1
l	9.4	11.5
m	10.1	12.2

6.28

84
6.3
2.1

✓	var	6.7	~~8.9 8.0 = 8.85 05 05~~ 8.83 8.73 = 8.78 05 05
✓ 8.03	~~8.1~~	b 7 v	~~8.8 8.7 = 8.75 05 05~~ 8.73 8.63 = 8.68 05 05
8.63	~~8.7~~	v 2 c	~~8.9~~ 8.83

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1894phae.proj..806F

March 1, 1895.

Meas of new var in Gas (Cont).

Pl. 12050 f. Md
Pl. 8720 Meas. pos. and Enl var &c.
Pl. 10190 Enl. var ft. (Identical as B6564

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1894phae.proj..806F

March 4, 1895.

Meas. of new var. stars in Plate No. 2.

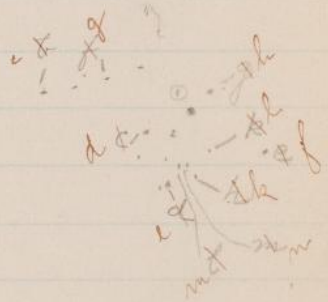
G.C. 5f 283Pa 5h 7m 38s Dec. -48° 39'.6 (9½) (1875.)

Dp. Nd on plate B12421 No. 6150

Plate B 1067

	a					
h	6.0	8.9	G.C. 320	5	8	48 - 49 12.6 8
c	6.6	9.5	G.C. 327	5	8	55 - 49 12.5 9
630			363	5	10	5 - 48 38.4 9½
d	7.3	10.2				9.25
e	7.8	10.7				
f	8.2	11.1				
g	8.5	11.4				
h	~~8.7~~ 8.8	11.7				
k	~~7.3~~ 9.1	12.0				
l	9.5	12.4				
m	9.7	12.6				
n	10.1	13.0				

9.2 / 6.3 / 2.9



Identif. of comp. stars transferred to B12166.

var. 8.7 11.3 11.3 = 11.30 .05 .18 .13 .12 0 0

10.85 11.1 f 3 v 11.4 11.4 11.58 = 11.43 .15 .38 .23 .02 .20 03, 03, 07.

11.40 v 0 f g 11.40

11.58 v 4 ~~f~~ h 11.98

Plate B 4289

10.6 30 ~~f~~ e l = 12

v n.s. L 10.8 50

Plate B 4290

10.6 30 e l = .5 11.1

v ns L 11.1 10.8a

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1894phae.proj..806F

March 4, 1895.

Meas. of new var. in Pleiades (No. 2) Cart.

Plate B 4393

11.40 gf = .4 11.80

v ns. < 11.80

Plate B4601

12.3 58 kf = .4 12.798

v ns. < 12.798

Plate B5803

13.80 12.9 m f = .3 13.260

v ns. < 13.260

Plate B.7079

13.80 12.9 m f = .4 13.370

1 v = 1 < 13.370

m indistinct

Plate B7129

10.85 11 f = .3 11.415

v ns. < 11.415

Plate B8670 (Broken

11.40 g f H v 11.50 11.58 = 11.54 .04 .04

11.58 v 4 gh 11.98

Plate B8739

11.98 hg f v 12.08 12.18 11.9 = 12.13 11.95 .05 .05

11.9 v 4 hg 12.358

12.18

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1894phae.proj..806F

March 4, 1895

Meas. of new var. in Pleiades (No. 2) (Cont.)

Plate B 8853

13.30 m l = .4 13.370
12.9
v n.s. < 13.370

Plate B 10333

9.70 d 5 v 10.4 20 10.6 30 10.7 45 = 10.63 82 03, 03, 07 12 2 .13
10.1
10.6 30 v 0 d e 10.630
10.7 45 v 4 f 11.1 10.85

Plate B 10334

April 6, 1895. Adopt

f e 2 v
9.70 10.1 d 5 v 10.6 20 10.5 20 = 10.55 20 Reject. n.s. 05, 05. 11.3 05 11.3 0 = 11.30 v 18 .13 .12
v 1 f
10.5 20 v 1 d e 10.630 .00 .00 00 00

Plate B 12166

11.98 h f 3 v 12.2 8 12.1 38 = 12.15 33 05, 05.
12.1 38 v 2 d e 12.358

Plate B 12219

10.6 30 e d 4 v 10.70 10.75 11.0 11.0 = 11.00 10.72 .02 .03 00
11.0 10.75 v 1 f 11.1 10.85

Plate B 12421

a d A
b
c
d
var. Md 8.43 8.6 v 3 d 8.9 8.73 +0.30 = 8.6 43

1894phae.proj..806F

March 4, 1895.

Meas. of new var. in Victor (No. 2) (Cont.)

Plate B 12166

b	5.8	9.0
c	6.3	9.5
6.05 d	6.8	10.0
e	7.4	10.6
9.2 6.0 3.2 f	8.0	11.2
g	8.4	11.6
h	9.1	12.3
k	9.5	12.7
l	9.8	13.0
m	10.2	13.4
n	10.5	13.7

var. 9.3 12.18 12.38 = 12.28 00 .10 .10

11.98 h 3.7 12.28 12.38 = 12.33 05 05

12.38 r 2 k 12.358

Plate B 10677

b	6.0	8.9	m	9.7	12.6
6.30 c	6.6	9.5	n	10.2	13.1
9.2 6.3 2.9 d	7.2	10.1	var.		
e	7.7	10.6			
f	8.2	11.1			
g	8.4	11.3			
h	8.8	11.7			
k	9.2	12.1			
l	9.4	12.3th			

Gnd. B 10677.
Identical on B 12166.

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1894phae.proj..806F

March 19, 1895.

Meas. of Anderson's new variable star in Andromedae. BD +26°43 γ Andromedae

Plate I 11934

Var. vis? Region damaged by scratches and estimate of brightness rendered impossible.

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nrao.phae.proj.8066

April 3, 1895.

Meas. to determine variability of Dm -22° 995 —
R.A. 5h 20m 0.6 - 22° 2' 8.7 (1900). No. 6095 in B I 2370
Md. Constell. Lepus

Plate I ~~12464~~ 12511

a	6.1	7.0	Dm -21° 1067	4 59.1	-21 27.6	7.7
b	6.7	7.6	-21° 1065	4 58.5	-21 25.7	7.5
c	7.2	8.1	-21° 1061	4 58.2	-21 20.4	8.5
d	7.6	8.5	-21° 1068	4 59.4	-21 37.4	8.6
e	8.1	9.0	-22° 996	4 58.9	-22 27.5	9.0
f	8.5	9.4	-22° 993	4 58.0	-22 0.1	9.1
g	9.0	9.9	-22° 1001	4 59.4	-22 6.9	9.6
h	9.4	10.3	-22° 994	4 58.6	-22 32	9.5
k	9.9	10.8				
l	10.3	11.2				

8.628/7.82 — 8.7 1.8 0.9

var 9.9 10.7 4 10.8 74 10.8 74 = 10.77 4 .00 .00 .00

10.8 74 k 4 v 11.2 14 11.1 04 = 11.1 09/5 .05 .05

11.1 04 v 1 l 11.2 14

I 148

8.0 4 c 4 v 8.4 4 8.4 39 = 8.40 2 .02 .03

8.4 39 v 1 d 8.5 49

I 2647

8.0 4 c 4 v 8.4 4 8.3 29 = 8.35 6 .04 .07

8.3 29 v 2 d 8.5 49

I 2916

8.9 9.0 e 4 v 9.4 37 9.4 37 9.3 2 = 9.35 .02 .02 .03

9.4 37 9.3 32 v 2 f 9.4 37 9.8 2

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1894phae.proj..806F

April 3, 1895.

Meas of new variable star in Lepus (Cont) Bd -22° 995.

Plate B5766

9.82 g 5 r 10.32 10.24 10.24 = 10.27 .05 .03 .03
10.24 r o h 10.24
10.324 r 5 k ~~10.8~~ 10.874

Plate B 4577

~~9.0~~ 8.97 e 3 r 9.827 9.717 = 9.252 .05 .05
9.817 r 2 f 9.837

Plate B10680

~~8.90~~ 8.94 e 1 r ~~9.15~~ ~~8.90~~ 8.14 8.719 = 8.156 .02 .03
8.819 r 3 d 8.549

Plate I 591

~~9.0~~ 8.97 e 4 r 9.437 9.437 9.32 = 9.375 .02 .02 .03
9.837 r o f ~~9.4~~ 9.37
9.32 f r g 9.82

Plate B12164

10.82 h 3 r ~~10.4~~ 10.44 10.54 = ~~10.49~~ 10.475 ~~.05~~ .05
10.584 r 3 k ~~10.8~~ 10.74

Plate B 5765

10.24 h 3 r 10.54 10.544 = 10.549 .05 .05
10.544 r 3 k 10.874

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1894phae.proj..806F

April 3, 1893.

Meas. of new var. star in Lepus (Cont.) BD -22° 995.

Plate B 12485 I

10.8 74 k 1 v 10.8 84 10.8 74 = 10.85 79 .05 .05

10.8 74 v 4 l 11.2 14

Plate B 12464 I

10.8 74 k 2 v 10.9 84 10.9 84 = 10.95 89 .05 .05

10.9 84 v 3 l 11.1 14

a	6.3	6.9
b	7.0	7.6
c	7.5	8.1
d	7.9	8.5
e	8.4	9.0
f	8.8	9.4
g	9.2	9.8
h	9.6	10.2
k	10.1	10.7
l	10.5	11.1
var	10.2	10.9 84 10.8 84 = 10.85 4 .00 .00

8 | 64.7 / 8.09

8.7 / 8.1 / 0.6

Plate B 12370

9.5 49 d 5 v 9.0 8.99 9.0 8.97 = 9.00 8.98 .01 .01

9.0 8.97 v 0 e 9.0 8.97

f n s.

a bl A

b g

c g2 H

d H

e A

f ns

var Md

End. B 5765 var ff.

End. I 2647 var br.

Fr identize B 12511

Fr meas B 12511

Plate B 12511 I

8 | 62.1 / 7.76

a	6.1	7.0	h	9.3	10.2	8 | 64.0 / 8.0
b	6.7	7.6	k	9.8	10.7	8.7 / 8.10 / 0.1
c	7.1	8.0	l	10.2	11.1	
d	7.6	8.5	var	9.8	10.7 4 10.8 74 10.8 74 = 10.77 4 .00 .00	
e	8.0	8.9	10.2 4 h 4 v		10.6 4 10.7 64 = 10.65 4	
f	8.4	9.3	10.7 64 v 1 k		10.8 74	
g	8.9	9.8				

8.7 / 7.8 / 0.9

Plate B 12464 I

a	6.3	7.0	h	9.6	10.3	
b	6.9	7.6	k	10.1	10.8	
c	7.3	8.0	l	10.5	11.2	.00
d	7.8	8.5	var	10.2	10.8 4 10.9 84 10.8 4 = 10.85	
e	8.3	9.0	10.2 4 k 5 v		10.7 4 10.8 74 10.9 84 = 10.80 77	
f	8.7	9.4	10.8 74 v 0 k		10.8.74	.03 .03 .07
g	9.1	9.8	10.9 84 v 3 l		11.2 14	

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1894phae.proj..806E

April 6, 1895.

Examination of early Bache plates for Miss Leland's new variable star, H.P. 899 = BD +0°939 1h Type Draper.

1115 Plate B 116 (H) taken Nov. 9, 1885. E.T.

1	BD+1 896	4	58.4 +1 40	8.5	= a 8.2
2	+0° 933	4	56.9 +0 53	9.0	= c 9.4
3	+1° 895	4	58.1 +1 15	9.3	= e 10.0
4	+0° 934	4	57.0 +0 53	9.3	

9.4 2 3 v 9.7 9.9 = 9.80
9.9 v 1 3 10.0

Plate B 2398 (H) taken Feb. 29, 1888.

9.4 2 4 v 9.8 = 9.85
9.9 v 1 3 10.0

Plate B 1829 (J) taken Nov. 5, 1887.

10.0 3 = 4 10.0
v ns ? < 10.4

Plate B 1878 (J). taken Nov. 13, 1887.

10.0 3 ns. } On very edge of plate. Just off Jet. of.
1 ns. }
v ns. }
< 10.0

Plate B 1023 (D) taken Jan. 12, 1887.

8.2 1 ns
v ns.
< 8.2
BD +0° 923 6.2 = .3

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1894phae.proj..806F

April 6, 1895.

Spectr. of early Bache plates (Cont).

Plate B 279 (I) taken Jan. 11, 1886.

8.2 1 = .2 8.4
r n.s. < 8.4

Plate B 260 (D) taken Jan. 7, 1886.
Region not identified

Plate B 993 (D) taken Jan. 3, 1887.
Region not identified.

Plate B 1081 (I) taken Feb. 13, 1887.

8.2 1 = .3 Sp Cl. A.
12.40 r n.s. on edge of plate < 8.3

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1894phae.proj..806F

April 11, 1895.

E. E. Leland's

Meas. of new variable in Orion

H=899=BD+

Plate I 7716

a	5.2	8.1	BD+1°896	4584	+1 40	8.5	8.7	
b	5.7	8.6	+1° 911	5 1.1	+1 5	9.0	9.3	
c	6.3	9.2	+0° 933	4569	+0 53	9.0	9.3	
d	6.7	9.6	+1° 899	4586	+1 37	9.5	10.5	
e	7.1	10.0	+1° 895	4581	+1 15	9.3	9.9	
f	7.5	10.4	+0° 936	4575	+0 55	9.3	9.9	
g	8.0	10.9	+1° 908	5 0.7	+1 25	9.5	10.5	
h	8.4	11.3	—					
k	8.6	11.5	+1° 913	5 1.3	+1 14	9.3	9.9	9.75
var	7.4	10.3 25 10.4 33 = 10.35 29					.04	.04

6.88

9.8 16.7 3.9

9.95

~~10.0 10.3~~ e 4 v ~~10.7 10.6 = 10~~ 10.4 35 10.4 33 = 10.40 34 .01 .01

10.4 ~~10.6~~ 33 v 1 f 10.5 43

Plate B 116

9.6 55 d 2 v 9.8 75 9.9 86 = 9.85 0 .05 .05

9.9 9.85 v 1 e ~~10.0~~ 9.95

Images very poor.

Plate B 2398

9.6 55 d 1 v 9.7 65 9.8 75 = 9.75 0 .05 .05

9.8 75 v 2 e ~~10.0~~ 9.95

Plate B 2945 (For second meas. see p. 183.

9.6 55 d 1 v 9.7 65 9.8 75 = 9.75 0 .05 .05

9.8 75 v 2 e ~~10.0~~ 9.95

Images very poor.

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1894phae.proj...806F

April 11, 1895.

Meas. of E. E. Leland's new var. in Orion (Cont.)

Plate I 2649

8.6 b 5 v 8.99 8.87 = 8.93 .06 .06
8.8 v 2 c 9.X07

Plate I 2918

8.6 b 4 v 8.89 8.8 = 8.84 .06 .06
8.8 v 3 c 9.X07

Plate I 2919

8.6 b 4 v 8.89 8.7 = 8.78 .11 .11
8.7 v 4 c 9.X07

Plate I 5086

9.8 v 2 e 9.95
9.6 d 1 v 9.7 9.8 = 9.75 .05 .05

Mean of Plate

Plate I 5087

9.6 d 2 v 9.8 9.9 = 9.85 .05 .05
9.9 v 1 e 9.95

Plate I 5372

9.6 d 1 v 9.7 9.8 = 9.75 .05 .05
9.8 v 2 e 9.95

Plate I 5365

9.X07 c 3 v 9.47 9.5 = 9.45 .04 .04
9.5 v 1 d 9.6

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1894phae.proj..806F

April 11, 1895.

Meas. of E. E. Leland's new var. in Orion.

Plate I 5436

9.x07 c 3 v 9.37 9.45 = 9.41 .04 .04
9.45 v 1 d 9.55

Plate I 7699

9.95 10.0 c 3 v 10.25 10.33 = 10.29 .04 .04
10.4 33 v 1 f 10.543

Plate I 7763

9.95 10.0 e 2 v 10.15 10.23 = 10.19 .04 .04
10.3 23 v 2 f 10.543

Plate I 7780

9.95 10.0 e 3 v 10.25 10.33 = 10.29 .04 .04
10.4 33 v 1 f 10.543

Plate I 9542

10.543 f 1 v 10.553 10.548 = 10.550 .03 .02
10.5 48 v 4 g 10.588

a	5.5	8.1	var 7.9	10.545	10.543	10.538	10.542 .03 .01 .04
b	6.0	8.6					
c	6.6	9.2					
d	7.1	9.7					
e	7.4	10.0					
f	7.9	10.5					
g	8.4	11.0					
h	8.9	11.5					
k	9.3	11.9					

7.25'

9.8 - 7.3 = 2.5

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1894phae.proj..806F

April 11, 1895.

Meas. of E. E. Leland's new var. in Orion (Cont.)

Plate I 9574

10.5 f 1 v 10.6 10.5 = 10.55 .03 .02

10.5 v 4 g 10.9

Plate I 10088

10.5 f 3 v 10.8

g not on plate.

Plate I 5322			Plate I 7716		
a	5.3	8.0	a	5.2	8.0
b	5.8	8.5	b	5.7	8.5
c	6.2	8.9	c	6.4	9.2
d	6.7	9.4	d	6.9	9.7
e	7.2	9.9	e	7.3	10.1
f	7.8	10.5	f	7.7	10.5
g	8.3	11.0	g	8.0	10.8
h	8.8	11.5	h	8.4	11.2
k	9.2	11.9	k	8.7	11.5
var	6.9	9.8 9.7 = 9.75	var	7.5	10.4 10.3 = 10.35 .04 .04
d	1 v	9.7 9.8 = 9.75	e	3 v	10.3 10.4 = 10.35 .04 .04
v	2	10.0	v	1 f	10.543

7.06

6.99

9.8 7.1 2.1

9.8 4.0 2.8

9.8 9.8 9.8

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1894phae.proj..806F

April 18, 1895.

Meas. of eight new variable stars in ℓ centaurus. Two of these have already been measured on some of these photographs in B. 3 p. 125-130. Since that time six more have been discovered by Professor E. C. Pickering and while measuring these new objects it has been thought advisable to revise the measures previously made, since one of the comparison stars (O) then used has since been found to be variable. Another star has been selected and will be used as O' throughout these measures

Ident. of Comp. Stars on A 4679 and photograph.

Plate A 5712

a	5.0	8.8	n	9.3 n	14.7	
b	5.0	8.8	var. 1	5.5	9.4 9.2 = 9.30	
c	5.6	9.4	var 2	9.9	~~9.9 9.9 = 9.90~~	13.4 13.7 = 13.65
d	6.0	9.8	var 3	10.0	~~10.0 10.0 = 10.00~~	13.7 13.8 13.7 = 13.73
e	6.3	10.1	var 4	9.9	~~9.9 9.9 = 9.90~~	13.6 13.7 = 13.65
f	6.7	10.5	var 5	7		
g	7.3	11.1	var 6	9.8		
h	7.9	11.7	var 7	9.6		
k	8.7	12.5	var 8	9.9		
ℓ	9.1	12.9				
m	9.4	13.2				
n	9.7	13.5				
o	10.0	13.8				
p	03 p	14.1				
q	p 2 q	14.3				

F F

13.5 13.6 = 13.55

13.3 13.3 = 13.30

13.6 13.7 = 1365

8.9 b 4 r 9.3 9.1 = 9.20 — 13.4 n 3 r 13.7 13.8 13.8 = 13.77 — 13.1 m 4 r 13.5 13.3 = 13.40

9.1 r 2 c 9.3 — 13.8 r 0 0 13.8 — 13.3 r 1 n 13.4

13.4 n 4 r 13.8 13.8 = 13.80 — 13.8 o 2 p 14.0 — 13.4 n 2 r 13.6 13.7 = 13.65

13.8 r 0 0 13.8 — 14.5 n = 3 — 13.7 r 10 13.8

13.8 o 1 r 13.9 13.9 = 13.90 — r = 1 = 14.64 — 13.9 13.8 = 13.85

13.9 r 1 p 14.0 — 13.4 n 3 r 13.7 13.7 = 13.70 — 13.8 r 2 p 14.0

13.7 r 1 0 13.8

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1894phae.proj..806F

April 24th, 1895.

Meas. of variables & in ω ~~Cen~~ Centauri (Cent.)

Plate X 4006 = Y 101.

var 1 10.7 f 5 v 11.2 11.2 = 11.20
11.2 v 1 g 11.3
11.3 var #g 3 #v 11.6 11.8 = 11.70
11.8 v 1 h 11.9
10 = 1136 n.s.? var 2 13.4 n 1 v 13.5 = 13.5
o n, 0, #
var 4 n = .2 13.6
v n.s.
var 5 n 1 v < 13.5
o n.s.
var 6 n 2 v < 13.6
o n.s.
var 7 n = .2 < 13.6
v n.s,
var 8 n 1 v < 13.5
o n.s,
var 9 13.1 n 2 v 13.3 13.3 = 13.30
13.3 v 4 n 13.4

Plate X 4578

9.8
var 1 d 1 v 9.9 9.7 = 9.80
9.7 v 4 e 10.1
13.4 var 2 n #3 v 13.7 13.8 = 13.75
13.8 v o o 13.8
10 = 1138 n.s. 13.4 var 3. n 2 v 13.6 13.7 = 13.65
13.7 v 1 o 13.8
var 4. o = .1
v n.s. < ~~13.9~~ 13.9

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1894phae.proj..806F

April 24. 1895.

Meas. of variables in ω Centauri Cont.
Plate X 4578 Cont.

var 5. v = 0 = 13.8
0 = .1

var 6. v = .0 = 13.8
0 = .1

var 7. 0 = .1 < 13.8
v n.s.

13.1
var. 8 m 2 v 13.3 13.2 = 13.25
13.2 v 3 m 13.4

13.1
var. 9 m 1 v 13.2 13.2 = 13.20
13.2 v 2 m 13.4

Plate X 4585

9.8
var 1 d 2 v 10.0 9.8 = 9.90
9.8 v 3 e 10.9

13.4
var. 2 m 3 v 13.7 13.8 = 13.75
13.8 v 0 0 13.8

10 < 13.9 n.s.
13.4
var. 3 m 2 v 13.6 13.7 = 13.65
13.7 v 1 0 13.8

13.1
var. 4 m 3 v 13.4 13.3 = 13.35
13.3 v 1 m 13.4

13.4
var. 5 m 2 v 13.6 13.7 = 13.65
13.7 v 1 0 13.8

13.1
var. 6 m 4 v 13.5 13.3 = 13.40
13.3 v 1 m 13.4

var. 7 0 = .1 < 13.9
var n.s.

var. 8 0 = .1
v = .1 ? 13.7?

13.8
var. 9 0 1 v 13.9 13.4 = 13.65
13.8 v 2 p 14.0

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1894phae.proj..806F

April 24, 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 4588

9.8
var 1 d 4 v 10.2 10.1 10.1 = 10.13
10.1 v 0 e 10.1
10.1 v 6 f 10.7
13.1
var 2 m 4 v 13.5 13.4 13.5 = 13.47
13.4 v 0 m 13.4
13.5 v 3 0 13.8
13.8
var 3 0 1 v 13.9 13.8 = 13.85
13.8 v 2 p 14.0
13.1
var 4 m 3 v 13.4 13.3 = 13.35
13.3 v 1 m 13.4
13.4 var 5 m 2 v 13.6 13.7 = 13.65
13.7 v 1 0 13.8
13.8 var 6 0 1 v 13.9 13.8 = 13.85
13.8 v 2 p 14.0
12.8 var 7 e 1 v 12.9 12.8 = 12.85
12.8 v 3 m 13.1
14.5* var 8 p 2 v 14.7
p = .4

Plate 4589

9.8
var 1 d 3 v 10.1 10.0 = 10.05
10.0 v 1 e 10.1
13.1
var 2 m 1 v 13.3 13.1 = 132.0
13.1 v 3 m 13.4
13.4
var 3 m 3 v 13.7 13.7 = 13.70
13.7 v 1 0 13.8
var 4 0 2 v 14.0 13.9 = 1395
13.8
13.9 v 1 p 14.0

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1894phae.proj..806F

April 24, 1894.

Meas. of new variables in ω Centauri

Plate X 4589 Cont

var. 5 13.1 m 3 v 13.4 13.3 = 13.35

13.3 v 1 m 13.4

var. 6 13.8 0 2 v 14.0 13.9 = 13.95

13.9 v 1 m 14.0

var. 7 13.1 m 1 v 13.2 13.2 = 13.20

13.2 v 3 m 13.4

var. 8 14.5 m 1 v 14.6

m = .3

var. 9 14.0 m 2 v 14.2 14.1 = 14.15

14.1 m 9 14.2

Plate X ~~4606~~ 4607

10.1 var. 1 e 2 v 10.3 10.5 = 10.40

10.5 v 2 f 10.7

13.8 var. 2 0 = .2

v = .1 = 13.9

13.4 var. 3 m 3 v 13.7 13.8 = 13.75

13.8 v 0 0 13.8

13.8 var. 4 0 1 v 13.9

0 = .2

13.4 var. 5 m 1 v 13.5 13.6 = 13.55

13.6 v 2 0 13.8

13.4 var. 6 m 2 v 13.6 13.7 = 13.65

13.7 v 1 0 13.8

13.8 var. 7 0 1 v = 13.9

13.8 var. 8 0 1 v = 13.9

13.8 var. 9 0 1 v = 13.9

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1894phae.proj..806F

April 24, 1894.

Obsns. of new variables in ω Centauri (Cont).

Plate X 4608

10.1 var. 1 e 4 r 10.5 10.5 = 10.50

10.5 r 2 f 10.7

13.8 var. 2 r o O = 13.8

(10 ns.) 13.4 var. 3 ~~n~~ 2 ~~r~~ 13.6 13.7 = 13.65

13.7 r 1 O 13.8

13.8 var. 4 r o O = 13.8

var. 5 r n.s. < 13.8

var 6 r n.s. < 13.8

var 7 r o O = 13.8

var 8 r n.s. < 13.8

13.4 var 9 n 1 r 13513.7 = 13.60

13.7 r 1 O 13.8

Plate X 4609

10.1 var. 1 e 1 r 10.2 10.3 = 10.25

10.3 r 4 f 10.7

(10 <13.5 n.s.) var. 2 r n.s. < 13.5

var. 3 r n.s. < 13.5

var. 4 r n.s. < 13.5

var 5 var n.s. < 13.5

var. 6 r n.s. < 13.5

13.1 var 7. n 2 r 13.3 13.3 = 13.30

13.3 r 1 n 13.4

13.1 var. 8 n 3 r 13.4 13.4 = 13.40

13.4 r o n 13.4

n = 11

var. 9 n.s. < 13.5

Plate X 4610

10.1 var. 1 e 5 r 10.6 10.6 = 10.60

10.6 r 1 f 10.7

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1894phae.proj..806F

April 26, 1895.

Meas. of new variables in ω Centauri (Cont).

Plate X 4610

10.1 var 1 e 5 v 10.6 10.5 = 10.55

10.5 v 2 f 10.7

13.4 var 2 n = .3

v = .1 = 13.56

(10 ns.) <13.7 var 3 n = .3

v = .2 = 13.95

var 4 n = .3

var N.S. <13.7

var 5 n = .3

v = .1 #13.6

var 6 n = .3

v N.S. <13.7

var 7 n = .3

var N.S. <13.7

var 8 n = .3

v = .1? 13.6?

var 9 v N.S. <13.7

Plate X 4613

10.1 var 1 e 4 v 10.5 10.5 = 10.50

10.5 v 2 f 10.7

13.4 var 2 n 1 v 13.5 13.6 = 13.55

<14.0 13.6 v 2 0 13.8

(10 ns) 13.4 var 3 n 2 v 13.6 13.7 = 13.65

13.7 v 1 0 13.4

13.6 var 4 0 2 v 14.0 14.0 = 14.0

14.0 v 0 = .3 f 14.0 = .1.

13.4 var 5 #0 1 v 13.9 13.9 = 13.9

13.9 v 1 f 14.0

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1894phae.proj..806F

April 26, 1895.

Meas. of new variables in ω Centauri (Cont).

Plate X 4613 (Cont.)

13.8 var 6	o 2 r	14.0	14.0	= 14.00
14.0	r o p	14.0		
	p = .1			
var 7 13.8	o 2 r	14.0	14.0	= 14.00
14.0	r o p	14.0		
var. 8 13.8	o 1 r	13.9	13.9	= 13.90
13.9	r 1 p	14.0		
var 9 13.4	n 2 r	13.6	13.7	= 13.65
13.7	o	13.8		

Plate X X 4614

10.1 var. 1	e 6 r	10.7	10.6	= 10.65
10.6	r 1 f	10.7		
n var 2	n 1 r	13.4	13.6	= 13.50
13.6	r 2 o	13.8		
(10 ns) 14.6 var. 3	p 2 r	14.2	14.1	= 14.15
14.1	r 1 q	14.2		
14.2 var. 4	q 1 r	14.3	14.4	= 14.35
14.4	r 1 s	14.5		
var. 5	s = .1			
	r n.s.	< 14.6		
13.8 var 6	o 1 r	13.9	13.9	= 13.90
13.9	r 1 p	14.0		
14.0 var. 7	p 1 r	14.1	14.1	= 14.10
14.2	r 1 q	14.2		
14.5 var. 8	s = .1			
	r n.s.	< 14.6		
var 9	r n.s.	< 14.6		

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1894phae.proj..806F

April 26, 1895.

Meas. of variables in ω Centauri (Cont).

Plate X 4615

10.7	var. 1	f 1 r	10.8 10.8	= 10.80
10.8		r 5 g	11.3	
13.4	var. 2	n 2 r	13.6 13.7	= 13.65
13.7		r 1 0	13.8	
(10 ns) L14!	var. 3	13.4 n 2 r	13.6 13.7	= 13.65
13.7		r 1 0	13.8	
13.8	var. 4	0 2 r	14.0 14.0	= 14.00
14.0		r 0 p	14.0	
		p = .1		
	var. 5	r ## 0 p	14.0	
	var. 6	r 0 p	14.0	
	var. 7	r 0 p	14.0	
13.8	var. 8	0 1 r	13.9 13.9	= 13.90
13.9		r 1 p	14.0	
13.4	var. 9	n 2 r	~~14.0~~ 13.6 13.7	= 13.65
13.7		r 1 0	~~13.8~~	

Plate X 4621

10.7	var. 1	f r 1 f	10.8 10.8	= 10.80
10.8		f r 5 g	11.3	
13.4	var. 2	n 1 r	13.5	
		n = .2		
(10 ns) L13.6	var. 3	r n.s.	< 13.6	
12.8	var. 4	l 3 r	13.1 12.9	= 13.0
12.9		r 2 m	13.1	
	var. 5	r 0 n	13.4	
	var. 6	r n.s.	< 13.6	
	var. 7	r n.s.	< 13.6	
	var. 8	r n.s.	< 13.6	
	var. 9	r n.s.	< 13.6	

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1894phae.proj..806F

27

April ~~26~~, 1895.

Meas. of variables in ω Centauri (Cont).

Plate X 4675

9.3 var. 1	c 1 r	9.4	9.3 = 9.35
9.3	r 5 d	9.8	
13.1 var. 2	n = .3	~~< 13.4~~	
	r n.s.	< 13.4	
(10 n.s. = 13.4) var. 3	r ns	< 13.4	
var. 4	r n.s.	< 13.4	
var 5	r ns	< 13.4	
var 6	r n.s.	< 13.4	
var. 7	r ns.	< 13.4	
var 8	r n.s.	< 13.4	
var. 9	r n.s.	< 13.4	

Plate X 7678

9.3 var. 1	c 3 r	9.6	9.5 = 9.55
9.5	r 3 d	9.8	
14.2 var. 2	q 1 r	14.3	14.3 = 14.30
14.3	r 2 n	14.5	
	n = .1		
(10 n.s. < 14.6) 13.8 var. 3	o 1 r	13.9	13.8 = 13.85
13.8	r 2 p	14.0	
var 4 14.2	q 1 r	14.3	14.4 = 14.35
14.4	r 1 n	14.5	
var. 5 14.2	q 2 r	14.4	14.4 = 14.40
14.4	r 1 n	14.5	
var. 6 14.2	q 1 r	14.3	14.4 = 14.35
14.4	r 1 n	14.5	
var. 7 13.4	n 1 r	13.5	13.6 = 13.55
13.6	r 2 o	13.8	
var. 8 12.8	l 2 r	13.0	13.0 = 13.00
13.0	r 1 m	13.1	

13.8 o 1 r 13.9 13.9 = 13.90

13.9 r 1 p 14.0

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1894phae.proj..006F

April 27, 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 4679

var 1 9.3 c 4 v 9.7 9.6 = 9.65
9.6 v 2 d 9.8
14.5
var. 2 k 1 v 14.6
14.7 var. 3 13.8 0 1 v 139 13.8 = 1385
(k 2 10) k = .8
13.8 v 2 p 14.0
var. 4 14.2 q 1 v 14.3 14.3 = 14.30
14.3 v 2 n 145
var. 5 13.8 0 2 v 14.0 13.9 = 13.95
13.9 v 1 p 14.0
var. 6 14.0 ~~N 1 v~~ 14.1 14.0 = 14.05
14.0 p v 2 q 14.2
var. 7 13.4 m 1 v 13.5 13.6 = 13.55
13.6 v 2 0 13.8
var. 8 12.8 l 2 v 13.0 13.0 = 13.00
13.0 v 1 m 13.1
var 9 14.2 q 1 v 14.3 14.3 = 14.30
14.3 v 2 n 14.5

Plate X 4681

8.9 var. 1 k 6 v 9.5 9.2 = 9.35
9.2 v 1 c 9.3
var 2 14.0 p 2 v 14.2 14.1 = 14.15
14.1 v 1 q 14.2
(k 2 10) = 14.7 (k = .8) var. 3 13.8 0 1 v 13.9 13.8 = 13.85
13.8 v 2 p 14.0
var. 4 14.2 q 1 v 14.3 14.3 = 14.30
14.3 v 2 n 14.5
var. 5 14.5 k 2 v 14.7
k = .4

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1894phae.proj..806F

April 27, 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 4681 (Cont.)

var. 6 14.2 g 1 r 14.3 14.4 = 14.35
14.4 r 1 w 14.5
var. 7 14.0 p 2 r 14.2 14.1 = 14.15
14.1 r 1 g 14.2
var. 8 13.8.0 1 r 13.9 13.9 = 13.90
13.9 r 1 p 14.0
var. 9 14.2 g 2 r 14.4 14.4 = 14.40
14.4 r 1 w 14.5

April 29, 1895

Plate X 4693

9.3 var. 1 c 6 r 9.9 10.0 = 9.95
10.0 r 1 ~~p~~ c 10.1
var. 2 13.8 0 2 r 14.0 14.0 = 14.40
14.0 r 0 p 14.0
p = .1
(10 ms) L 14.1 var. 3 13.4 n 2 r 13.6 13.7 = 13.65
13.7 r 1 0 13.8
var. 4 13.4 n 1 r 13.5 13.6 = 13.55
13.6 r 2 0 13.8
var. 5 13.1 n 3 r 13.4 13.3 = 13.35
13.3 r 1 n 13.4
var. 6 13.4 n 1 r 13.5 13.6 = 13.55
13.6 r 2 0 13.8
var. 7 13.8 0 1 r 13.9 13.9 = 13.90
13.9 r 1 p 14.0
var. 8 r 2 s L 14.1
var. 9 13.1 n 2 r 13.3 13.3 = 13.30
13.3 r 1 n 13.4

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1894phae.proj..806F

April 28, 1895

Meas. of new Variables in ω Centauri (Cont.)

Plate X 4694.

9.3 var. 1 c 4 r 9.7 9.8 9.8 = 9.77
9.8 c 0 2 9.8
9.8 r 3 e 10.1

var. 2 14.2 g 2 r 14.4 14.5 = ~~14.45~~ 14.45
14.5 r 0 p 14.8

(10 ms.) 14.6 var. 3 13.4 m 2 r 13.6 13.7 = 13.65
13.7 r 1 0 13.8

var. 4 13.8 0 1 r 13.9 13.9 = 13.90
13.9 r 1 p 14.0

var. 5 14.0 p 2 r 14.2 14.1 = 14.15
14.1 r 1 g 14.2

var. 6 14.0 p 1 r 14.1 14.1 = 14.10
14.1 r 1 g 14.2

var. 7 14.2 g 1 r 14.3 14.4 = 14.35
14.4 r 1 p 14.5

var. 8 12.8 b 3 r 13.1 13.0 = 13.05
13.0 r 1 m 13.1

var. 9 13.4 m 1 r 13.5 13.6 = 13.55
13.6 2 0 13.8

a	4.5	8.7
b	4.7	8.9
c	5.1	9.2
d	5.5	9.7
e	6.0	10.2
f	6.6	10.8
g	7.2	11.4
h	8.0	12.2
k	8.4	12.6
l	8.8	13.0
m	9.1	13.3
n	9.4	13.6

4.77

9.0 − 4.8 = 4.2

Z.C. 13 h 1083 13 17 51.8 − 46 58 47 8½
1232
~~1223~~ 13 20 33.5 − 46 49 18 9
1175 13 19 32.8 − 47 11 29 9½
9.0

(10 ms.)

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1894phae.proj..806F

April 29, 1895.

Mean of new variables in ω Centauri (Cont.).

Plate X 4694 (Cont).

0	9.7	13.9
p	9.9	14.1
q	10.1	14.3
r	10.4	14.6
var 1	5.6	9.9 9.7 = 9.80
" 2	10.2	14.3 14.3 = 14.30
" 3	9.6	13.6 13.7 = 13.65
" 4	9.7	13.7 13.8 13.8 = 13.77
" 5	10.0	14.1 14.1 = 14.10
" 6	10.1	14.2 14.2 14.2 = 14.20
" 7	10.3	14.4 14.4 = 14.40
" 8	9.0	13.0 13.0 = 13.00
" 9	9.5	13.5 13.6 = 13.58

Plate X 4695

var. 1 9.3 c 5 r 9.8 9.8 9.7 = 9.77

~~var~~ 9.8 r o d 9.8

9.7 d 4 e 10.1

var. 2 12.8 l 2 r 13.0 13.0 = 13.00

13.0 r 1 m 13.1

(10 ms) 14.6 var. 3 13.8 0 1 r 13.9 13.9 = 13.90

13.9 r 1 p 14.0

var. 4 13.8 0 2 r 14.0 14.0 14.0 = 14.00

14.0 r 0 p 14.0

14.0 r 2 q 14.2

var. 5 13.0 m 1 r 13.2 13.1 = 13.15

13.1 r 3 m 13.4

var. 6 14.2 q 2 r 14.4 14.4 = 14.40

14.4 r 1 l 14.8

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1894phae.proj..806F

April 29, 1895

Meas. of new variables in ω Centauri (Cont.)

Plate + 4695 (Cont.)

Var. 7	14.2	g 3 v	14.5 14.5 = 14.50
	14.5	v o r	14.5
Var 8	14.2	g 3 v	14.5 14.5 = 14.50
	14.5	v o r	14.5
Var 9	14.0	r g	14.1 14.1 = 14.10
	14.1	g	14.2
a	4.4	8.7	
b	4.6	8.9	
c	5.0	9.3	
d	5.5	9.8	
e	5.8	10.1	
f	6.4	10.7	
g	7.0	11.3	
h	7.5	11.8	
k	7.9	12.2	
l	8.2	12.5	
m	8.6	12.9	
n	9.0	13.3	
o	9.3	13.6	
p	9.5	13.8	
q	9.7	14.0	
r	9.9	14.2	
Var. 1	5.8	10.1 10.1 10.1 = 10.10	
2	8.5	13.1 13.0 = 13.05	
3	9.4	13.8 13.9 = 13.85	
4	9.4	13.8 13.9 = 13.85	
5	8.8	13.3 13.2 = 13.25	
6	9.7	14.2 14.2 14.3 = 14.23	
7	9.8	14.3 14.4 = 14.35	
8	9.8	14.3 14.4 = 14.35	

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April 29, 1895

Meas. of new variables in ω Centauri (Cont).

Plate X 5223

9.8 var. 1 d 3 v 10.1 9.8 = 9.95
9.8 v 3 e 10.1
var. 2 v ns < 13.3
m = .2
(10 ns) < 13.3 var 3 11.3 g 1 v 11.4 11.5 = 11.45
11.5 v 4 h 11.9
var. 4 13.1 v 0 m 13.1 = 13.1
var. 5 m 1 v 13.3
var. 6 v ns, < 13.3
var. 7 m 0 v 13.1
var 8 v ns, < 13.3
var 9 v ns < 13.3

Plate X 5235

var. 1 9.8 d 3 v 10.1 9.9 = 10.00
9.9 v 2 e 10.1
var 2 n, s, < 13.2
(10 ns) < 13.2 var 3 11.3 g 2 v 11.5 11.6 = 11.55
11.6 v 3 h 11.9
var 4 v 0 m 13.1
var 5 v n s < 13.2
m < .1
var 6 v ns, < 13.2
var 7 v ns. < 13.2
var. 8 12.8 l v 12.9 13.0 = 12.95
13.0 v 1 m 13.1
var 9 ns < 13.2

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April 29, 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 5463

var. 1	9.8	d	5	v	10.3 10.1 10.1 = 10.17	
	10.1	v	0	e	10.1	
	10.1	v	6	f	10.7	
var. 2	13.80	1	v		13.9 13.9 = 13.90	
	13.9	v	1	p	14.0	
(10 ns?)	<14.1					
var 3	13.80	1	v		13.9 13.9 = 13.90	
	13.9	v	1	p	14.0	
var. 4	13.4	m	1	v	13.5 13.6 = 13.55	
	13.6	v	2	0	13.8	
var. 5	13.80	2	v		14.0 13.9 = 13.95	
	13.9	v	1	p	14.0	
var. 6	13.1	m	1	v	13.2 13.2 = 13.20	
	13.2	v	2	m	13.4	
var. 7	13.4	m	1	v	13.5 13.8 = 13.65	
	13.8	v	0	0	13.8	
var. 8		v	n.s.		<14.1	
var 9		v	n.s.		<14.1	

Plate X 5532

var. 1	9.8	d	3	v	10.1 9.9 = 10.00	
	9.9	v	2	e	10.1	
var. 2	14.2	g	2	v	14.4 14.4 = 14.40	
	14.4	v	1	n	14.5	
(10 ns)	<14.1					
var 3	13.4	m	1	v	13.5 13.6 = 13.55	
	13.6	v	2	0	13.8	
var. 4	13.1	m	2	v	13.3 13.3 = 13.30	
	13.3	v	1	m	13.4	
var. 5	m = .2					
	v n.s.				<14.1	

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April 29, 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 5532 (Cont).

var. 6 13.1 m 2 v 13.3 13.3 = 13.30

13.3 v 1 m 13.4

var. 7 k 1 v 14.6

var. 8 p 2 v 14.7

v on limit of visibility

var 9 14.0 p 1 v 14.1 14.1 = 14.10

14.1 v 1 q 14.2

Plate X 5544

var. 1 10.1 e 1 v 10.2 10.1 = 10.15

10.1 v 6 f 10.7

var. 2 12.8 l 2 v 13.0 13.0 = 13.00

13.0 v 1 m 13.1

var. 3 13.4 m 2 v 13.6 13.7 = 13.65

13.7 v 1 o 13.8

var. 4 v ns. < 14.1

var. 5 v ns. < 14.1

var 6 12.4 k 2 v 12.6 12.7 = 12.65

12.7 v 1 l 12.8

var 7 v ns. < 14.1

var 8 v ns. < 14.1

var 9 12.8 b 2 v 13.0 13.0 = 13.00

13.0 v 1 m 13.1

(var 10 13.8 l v 13.9 13.8 = 13.85

13.8 v 2 p) 14.0

continued over

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April 30 1895.

Meas. of variables in ω Centauri (Cont.)

Plate X 5552

var 1	9.8	d	r	9.9 9.7	= 9.80
	9.7	r	e	10.1	
var 2	14.2 ~~k~~	~~2~~	r	14.4 14.4	= 14.40
	14.4 ~~r~~	~~1~~	~~m~~	14.5	
var 3	13.80	1	r	13.9 13.8	= 13.85
	13.8	r	2	p 14.0	
var 4	13.4 ~~m~~	1	r	~~13.6~~ 13.5 13.6	= 13.55
	13.6	r	2	o 13.8	
var 5	14.2 g	2	r	14.4 14.4	= 14.40
	14.4	r	1	m 14.5	
var 6	12.4 k	2	r	12.6 12.7	= 12.65
	12.7	r	1	l 12.8	
var 7	12.8 l	2	r	13.0 13.0	= 13.00
	13.0	r	1	m 13.1	
var 8	14.2 g	1	r	14.3 14.4	= 14.35
	14.4	r	1	m 14.5	
var 9	14.0 p	2	r	14.2 14.1	= 14.15
	14.1	r	1	g 14.2	
var 10	13.80	1	r	13.9 13.8	= 13.85
	13.8	r	2	p 14.0	

Plate X 5558

var 1	9.8 c	4	r	9.7 9.7	= 9.70
	9.7	r	1	d 9.8	
var 2	14.2 g	2	r	14.4 14.4	= 14.40
	14.4	r	1	m 14.5	
var 3	13.4 ~~m~~	2	r	13.6 13.7	= 13.65
	13.7	r	1	~~o~~ 13.8	
var 4	13.80	2	r	14.0 13.9	= 13.95
	13.9	r	1	p 14.0	

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April 30 1895.

Meas. of variables in ω Eridani (Cont.).

Plate X 5558

var. 5 14.2 g 2 v 14.4 14.4 = 14.40
14.4 v 1 e 14.5
var. 6 12.4 k 1 v 12.5 12.6 = 12.55
12.6 v 2 l 12.8
var. 7 13.4 n 2 v 13.6 13.7 = 13.65
13.7 v 1 o 13.8
var. 8 13.1 n 2 v 13.3 13.3 = 13.30
13.3 v 1 n 13.4
var. 9 14.2 g 1 v 14.3 14.4 = 14.35
14.4 v 1 h 14.5
var. 10 14.2 g 2 v 14.4 14.5 = 14.45
14.5 v 0 h 14.5

Plate X 5557

var. 1 9.3 e 3 v 9.6 9.6 = 9.60
9.6 v 2 d 9.8
var. 2 12.8 l 2 v 13.0 13.0 = 13.00
13.0 v 1 m 13.1
var. 3 13.4 n 2 v 13.6 13.7 = 13.65
13.7 v 1 o 13.8
var. 4 13.8 o 1 v 13.9 13.8 = 13.85
13.8 v 2 f 14.0
var. 5 13.8 o 1 v 13.9 13.9 = 13.90
13.9 v 1 f 14.0
var. 6 12.4 k 2 v 12.6 12.7 = 12.65
12.7 v 1 l 12.8
var. 7 14.0 f 1 v 14.1 14.1 = 14.10
14.1 v 1 g 14.2
var. 8 13.4 n 1 v 13.5 13.7 = 13.60
13.7 v 1 o 13.8
var. 9 13.4 n 2 v 13.6 13.7 = 13.65
13.8 v 0 o 13.8
var. 10 14.2 g 3 v 14.5 14.5 = 14.50
14.5 v 0 h 14.5

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April 30, 1895.

Meas. of vars in w Centauri (Cont).

Plate X 5559

var. 1 9.3 c 4 r 9.7 9.7 = 9.70
9.7 r 1 d 9.8

var. 2 13.1 m 1 r 13.2 13.2 = 13.20
13.2 r 2 n 13.4

var. 3 13.4 n 1 r 13.5 13.7 = 13.60
13.7 r 1 o 13.8

var. 4 14.2 g 2 r 14.4 14.4 = 14.40
14.4 r 1 N 14.5

var. 5 14.5 N 1 r 14.6
k = .3

var 6 12.4 k 2 r 12.6 12.7 = 12.65
12.7 r 1 l 12.8

var 7 14.2 g 1 r 14.3 14.4 = 14.35
14.4 r 1 N 14.5

var 8 12.8 l 2 r 13.0 13.0 = 13.00
13.0 r 1 m 13.1

var 9 13.1 m 2 r 13.3 13.3 = 13.30
13.3 r 1 n 13.4

var 10 r m.s. ∠14.8

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1894phae.proj..806F

June 4, 1895.

~~May 30, 1895.~~

Measures reduced to new scale of mag. by M.D.A. May 8, 1920

Meas. of plates to determine magnitudes of Nova Normae.

Plate B 10769

a	5.0	7.0	~~20944~~ 20910	15	21.1	-51 15 6.9
b	5.6	7.6	20940	15	22.2	-50 23 8.0
c	6.0	8.0	20938	15	22.2	-49 36 7.5 / 7.47
d	6.4	8.4				
e	6.8	8.8	~~20926~~			
f	7.2 / 7.5	9.2 / 9.5				
g	~~7.7~~					
h	7.7	9.7				
k	8.1	10.1				
l	8.6	10.6				
m	8.8	10.8				
n	9.4	11.4				
o	9.7	11.7				
p	10.0	12.0				
q	10.2	12.2				
r	10.4	12.4				

5.53

7.5 / 5.5 / 4.0

Comparison stars marked in photographs which is to be pasted into this record book when comparisons have been made.

Nova 7.6 ~~9.5 9.7 = 9.60~~ 9.69 9.77 = 9.73 .04 .04

~~9.59 9.4~~ g 2 N ~~9.6 9.7 = 9.65~~ 9.79 9.77 = 9.78 .01 .01 10.21

~~9.77 9.7~~ N 1 h 10.31 ~~9.8 9.87~~ 10.21 ✓ 9.57 9.55 = 9.56

~~12.66~~ ~~12.88~~ Plate B 3421

~~14.44 12.9~~ h = .4 ~~< 13.06~~ 14.82 ✓

N N.S. ~~< 13.3~~ ~~< 13.28~~

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1894phae.proj..006F

June 4, 1895.

Nova Normae.

Plate 9627 (Sp).

9.59 9.4 g = .3

M n.s. ~~< 9.7~~ ~~< 9.89~~

Plate B 9767 (Sp.)

7.04

7.22 ~~7.0~~ a o M ~~7.0 7.1 = 7.05~~ 7.04 7.12 = 7.08 .04 .04

7.74 ~~7.12~~ ~~7.1~~ M 5 b ~~7.6 7.62~~ 7.22 7.24 = 7.23 01 01 ✓

a 5.7

b 5.7

c 6.1

d 6.5

e 6.8

f n.s.

Nova 5.2 7.0 7.1 = 7.05 ~~7.04 7.12 = 7.08 .04 .04~~

Plate B 10092 (Sp)

7.74 ~~7.62~~

~~7.6~~ b 2 M ~~7.8 7.2 = 7.50~~ ~~7.82 7.78 = 7.80 02 .03~~

~~7.78~~ c not on plate

8.62 ~~7.2~~ N 6 d ~~8.0 8.38~~ 7.94 8.02 7.98 04 04 ✓

Plate B 10572

~~8.76~~

9.00 ~~8.7~~ e 2 N ~~8.9 8.9 = 8.90~~ ~~8.96 9.01 = 8.98 .02 .03~~

9.68 ~~8.9~~ ~~9.01~~ N 3 f ~~9.2 9.31~~ 9.20 9.38 9.29 ✓ 09 09

Plate B 10573 (Sp).

Nebula.

a only Comparison star

N n.s.

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June 4, 1895.

Nova Normae

Plate B 10580

7.04 Nucleus

a = .3 7.34

Plate B 10777

	a	5.4 ~~6.8~~	7.0
	b	6.0	7.6
5.93	c	6.4	8.0
	d	6.9	8.5
	e	7.3	8.9
15 5.9 ~~1.0~~ 1.6	f	8.6	10.2
g 11 f 11	g	8.2	9.8
	h	8.7	10.3
	k	9.2	10.8
	l	9.8	11.4
	m	10.2	11.8
	n	n.s.	

N 8.9 ~~10.0 9.9 = 9.95~~ ~~9.87~~ 10.07 10.05 = 10.06 .01 .01

9.87 10.31 ~~9.8~~ h 3 N ~~10.1 10.1 10.10~~ 10.17 10.25 = 10.21 .04 .04

10.82 ~~10.1~~ 10.25 N 1 k ~~10.2 10.35~~ 10.61 10.72 10.66 .05 .06 ✓

Plate B10781.

9.31 9.68 ~~9.2 9.4~~ 1 f 4 N ~~9.8~~ ~~9.6 9.3 = 9.45~~ 9.71 9.49 = 9.60 .11 .11

~~9.3~~ 9.49 N 1 g ~~9.4~~ 9.59 10.08 ~~10.06~~

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June 5 1895

Ima Normal.

Plate B 10788

h i N 9.9 9.9 = 9.90 9.97 10.05 = 10.01 .04 .04 ✓

N 3 k 10.2 10.35 10.41 10.52 10.46 05 06

Plate 10789 (Sp.)

Br. lines of equal intensity at wavelengths 500, 486, 472, and 410.

very strong bright band at wavelength 434+

10819 x

Plate 10790 Sp.

Ima barely visible. Br. band 434+ visible

Plate 10838 10.27 10.35 10.37 = 10.33 .06 .02 .04

h 4 N 10.2 10.2 10.3 = 10.23

N o k 10.2

N 5 l 10.8 10.71 10.82 11.02 10.86 14 03 17 ✓

Plate 10852

a	5.1	7.0
b	5.6	7.5
c	6.0	7.9
d	6.3	8.2
e	6.7	8.6
f	7.1	9.0
g	7.3	9.2
N	7.8	9.7
k	8.3	10.2
l	8.9	10.8

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1894phae.proj..806F

June 5, 1895

Nova Normae

Plate B 10852 Cat

m 9.3 11.2

n 9.9 11.8

o 10.2 12.1

p 7

q 7

p 7

Nova 8.0. ~~10.0~~ ~~9.9~~ = 9.95

~~9.87~~ ~~10.17~~ ~~10.25~~ = 10.21 .04 .04

10.31 ~~9.8~~ h 3 N ~~10.1~~ ~~10.1~~ = 10.10

10.82 ~~10.1~~ N 1 k ~~10.2~~ ~~10.35~~ 10.64 10.72 10.66 05 06

10.25

Plate B 10872

~~9.87~~

10.31 ~~9.8~~ h 4 N ~~10.2~~ ~~10.1~~ = ~~10.15~~ ~~10.27~~ ~~10.25~~ = ~~10.26~~ .01 .01

10.82 ~~10.1~~ N 1 k ~~10.2~~ ~~10.35~~ 10.71 10.72 10.72 01 00

10.25

Plate 10893

~~9.87~~

10.31 ~~9.8~~ h 4 N ~~10.2~~ ~~10.1~~ = ~~10.15~~ ~~10.27~~ ~~10.25~~ = ~~10.26~~ .01 .01

10.82 ~~10.1~~ N 1 k ~~10.2~~ ~~10.35~~ 10.71 10.72 10.72 01 00

10.25

Plate B 10935

~~9.87~~ 10.31 ~~10.27~~ ~~10.35~~ ~~10.37~~ ~~10.33~~ ~~.06~~ ~~.02~~ ~~.04~~

a 5.3 7.0 k 8.3 10.0 ~~9.8~~ h 4 N ~~10.2~~ 10.2 10.3 = 10.25

~~10.35~~ 10.82 ~~10.35~~

b 5.9 7.6 l 8.7 10.4 ~~10.2~~ N 0 k ~~10.2~~

~~10.37~~ 10.52 ~~10.37~~

c 6.2 7.9 m 9.0 10.7 ~~10.5~~ N 5 l ~~10.8~~

5.80

1.5

5.8

1.7

d ~~6.7~~ 6.5 8.2 n 9.5 11.2 10.71 10.82 11.02 10.85 14 03 17

e 6.8 8.5 o 9.7 11.4

f 7.3 9.0 p 10.0 11.7

g 7.5 9.2 q 10.4 12.1 ~~10.27~~ ~~10.25~~ - ~~10.26~~ .01 .01

~~8.38~~ ~~8.46~~ = ~~8.42~~ ~~.04~~ ~~.04~~

h 7.8 9.5 r 10.7 12.4

Nova 9.7 ~~10.2~~ ~~10.1~~ = ~~10.15~~

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1894phae.proj..806F

June 5, 1895.

Mira Normae.

Plate B10955

9.87 10.27 10.25 = 10.26 .01 .01

10.31 9.8 H4 N 10.2 10.1 = 10.15

10.82 10.1 N1 k 10.2 10.35 10.71 10.72 : 10.72 01 00

10.25

Plate 11020

10.35 10.65 10.57 = 10.61 .04 .04

10.82 10.2 k3 N 10.5 10.5 = 10.50

11.52 10.5 N3 l 10.8 10.87 11.12 11.22 : 11.17 05 05

10.57

Plate 11048 (Sp.)

Spectra shows bright lines and strong bright band at 430+. The wavelengths and intensity agree with those on plate B10789

k3 H

H 2 l

Plate 11278

10.35 10.65 10.67 = 10.66 .01 .01

10.82 10.2 k3 N 10.5 10.6 10.55

11.52 10.6 N 2 l 10.8 10.87 11.12 11.32 : 11.22 10 10

10.67

Plate B11327 (Sp.)

bright lines same as in B10789 Hand also bright

Plate 11409

10.35

10.82 10.2 k3 N 10.5 10.65 11.12

l not on plate

Plate 11412

10.82 10.35 10.53 10.55 = 10.49 .06 .06

11.2 k3 N 10.5 10.7 = 10.60 10.65 10.77 = 10.71 .06 .06

11.52 10.57 6.5 N1 l 10.8 10.87 11.12 11.42 : 11.27 15 15

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June 5 1895.

Plate B ~~10913~~ 11413

Nova Normae

	10.13 10.35								
10.82	~~10.2~~	k 3 N	~~10.5~~	~~10.7~~	~~10.60~~	10.65	10.77 =	10.71	.06 .06
11.52	~~10.7~~ 10.77	N 1 k	~~10.8~~	10.87		11.12	11.42 =	11.27	.15 .15 ✓

Plate 11680 (f).

Nova N.S.

Plate B 11689 (f).

Nova N.S.

Plate 11696 (f).

Nova N.S.

Plate 11781

	11.19								
11.75	~~11.1~~	m 3 N	~~11.4~~	~~11.4~~	= 11.40	11.49	11.56 =	11.52	.03 .04
12.65	~~11.4~~ 11.56	N 2 n	~~11.6~~	11.76		12.05	12.45 =	12.25	.20 .20 ✓

Plate B 12109.

	11.19								
11.75	~~11.1~~	m 4 N	~~11.5~~	~~11.4~~	= 11.45	11.59	11.56 =	11.58	.01 .02
12.65	~~11.4~~ 11.56	N 2 n	~~11.6~~	11.76		12.15	12.45 =	12.30	.15 .15 ✓

Plate X 5784

	11.19								
11.75	~~11.1~~	m 2 N	~~11.3~~	~~11.2~~	= 11.25	11.39	11.36 =	11.38	.01 .02
12.65	~~11.2~~ 11.36	N 4 n	~~11.6~~	11.76		11.95	12.25 =	12.10	.15 .15 ✓

Plate X 5792

	11.19								
11.75	~~11.1~~	m 3 N	~~11.4~~	~~11.3~~	= 11.35	11.49	11.46 =	11.48	.01 .02
12.65	11.3 11.46	N 3 n	~~11.6~~	11.76		12.05	12.35	12.20	.15 .15 ✓

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June 5, 1895

Nova Normae

Plate I 5802

11.19

11.75 ~~11.1~~ m 2 N ~~11.3 11.2 = 11.25~~ 11.39 11.36 = 11.38 .01 .02 10.3

12.65 ~~11.2~~ 11.36 N 4 m ~~11.6~~ 11.76 11.95 12.25 12.10 .15 .15 ✓ 10.8

13

12

13

1894phae.proj..806F

June 6, 1895.

Nova Normae

Plate B10781 (Second Meas)

10.31 9.87 9.8 h 2 = N 10.0 10.0 = 10.000 10.87 10.15 = 10.11 .04 .04 adopt. Second meas.

10.82 10.0 10.15 N = 2 k 10.2 10.35

10.51 10.62 10.56 05 06

k = .1

The above obs. has been checked by eyem. of prec. and fol. photos. 10777 to 10788.

Plate B3485

12.11 12.33

13.61 12.3 p = .2 < 12.31 13.81

N n.s. < 12.5 < 12.53

Plate B3690 (Sf.)

N n.s.

Plate B8286 (Sf.)

8.76

9.00 8.7 e = .3

N n.s. < 9.0 < 9.06 < 8.84 < 9.30 ✓

Plate B3723 (Sf)

8.76

9.00 8.7 e = .4

N n.s. < 9.1 < 9.16 < 8.94 9.40

Plate B3863

12.03

12.96 11.9 o = .2

N n.s. < 12.1 < 12.23 < 12.01 < 13.16 ✓

Plate B9391

13.88 12.63

12.41 12.6 q = .2

N n.s. < 12.8 < 12.83 < 12.61 < 14.08

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June 6, 1895.

Nova Normae.

Plate B6242

10.87
11.52 10.8 $l = .4$
N ns < 11.2 < 11.27 11.92

Plate B6903

10.87
11.52 10.8 $l = .4$
N ns < 11.2 < 11.27 11.92

Plate B3581

11.76
12.65 11.6 $n = .2$
N ns < 11.8 < 11.96 12.85

Plate B3524

11.76
12.65 11.6 $n = .1$ 12.75
N ns, < 11.7 < 11.86

Plate B3988

11.76
12.65 11.6 $n = .1$ < 12.75 ✓
N ns. < 11.7 < 11.86

Plate B5404

12.63
13.88 12.6 $q = .2$ < 14.08 ✓
N ns < 12.6 < 13.83

Plate B6402

11.76
11.75 11.1 $n = .3$ 12.05
N ns. < 11.4 < 12.06

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1894phae.proj..806F

June 6, 1895.

Nova Normae

Plate B 9147

10.35
10.82 ~~10.2~~ k = .2 < 11.02 ✓
10.13
W n.s. < 10.4 < 10.55

Plate B 5908

12.63
13.88 ~~12.6~~ g = .1 < 13.98 ✓
12.41
W n.s. < 12.7 < 12.73

Plate B 6241

12.03
12.96 ~~11.9~~ 0 = .1 13.06
11.81
W n.s. < 12.0 < 12.13

Plate B 4830

10.35
10.82 ~~10.2~~ k = .2 < 11.02 ✓
10.13
W n.s. < 10.4 < 10.55

Plate B 5910

12.63
13.88 ~~12.6~~ g = .1 < 13.98 ✓
12.41
~~W~~ W n.s. < 12.7 < 12.73

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1894phae.proj..806F

June 7, 1895.

Nova Normae

10.35 Plate B5909

10.82 10.2 k = .2 < 11.02 V

N n.s. ~~< 10.4~~ < 10.55

9.31 Plate B9435 (Sp.)

9.68 ~~9.2~~ f = .2 < 9.88

N n.s. ~~< 9.4~~ < 9.51

9.31 Plate B 9436 (Sp).

9.68 ~~9.2~~ f = .2 < 9.88

N n.s. ~~< 9.4~~ < 9.51

~~12.03~~ Plate B 9492

12.96 ~~11.9~~ 0 = 2 < 13.16 V

N n.s. ~~< 12.1~~ < 12.23

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1894phae.proj..806F

June 7 1895.

Variable star in G.C. 3636.

Comparison stars marked on ~~bromide~~ print to be pasted into record book.

Plate X 2892

10.3 b 5 v 10.8 10.7 = 10.75

10.7 v 1 c 10.8

Plate X 1525

11.2 d 1 v 11.3 11.2 = 11.25

11.2 v 4 e 11.6

Plate X 1433

10.3 b 5 v 10.8 10.7 = 10.75

10.7 v 1 c 10.8

Plate X 1671

11.2 d 5 v 11.7 11.5 = 11.60

11.5 v 1 e 11.6

Plate X 1654

Useless

Plate X 1592

9.5 a 5 v 10.0 10.1 = 10.05

10.2 v 2 b 10.3

Plate I 6300

11.2 d = .5

v ns ? < 11.7

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1894phae.proj..006F

June 7, 1895.

Var. in G.C. 3636

Plate I 1447

Too poor to show individual Stars in Cluster

Plate F 6378

9.5 a 5 v ? 10.0 10.2 10.10 ?

10.2 v 1 b ' 10.3

Plate I 63~~76~~ 67

11.2 d =.5

var. ft? ns.? <11.7

Plate I 10499

11.2 d =.1

var. ns.? <11.3

Plate I 1130

11.2 d =.4

var ns.? <11.6

Plate I 3499

10.8 c =.3

var. ns.? <11.1

Plate I 10590

9.5 a =.5

var. ns.? <10.0

9.5
7.5
2

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1894phae.proj..806F

June 7, 1895.

Var. in G.C. 3636

Plate II 2370

10.3 v = 13

var ns? < 10.6

Plate A 387

10.8 C 3 v 7 11.1 11.0 11.05

11.0 v 2 d 11.2

Plate A 342

10.8 C 2 v 11.0 10.8 = 10.90

10.8 v 4 d 11.2

9.5 7.5 2.0

a 7.5 9.5 B.D. +29°3448 13 35 4.9 +29 11.3 9.1 9.5

b 8.3 10.3 —

c 8.9 10.9 —

d 9.3 11.3 —

e 9.6 11.6 —

f 10.2 12.2 —

g 10.6 12.6 —

h 7 —

k 7 —

var 9.1 11.0 11.0 = 11.00

Plate A 149

1st comp. 10.8 C 4 v 11.2 10.9 = 11.05

10.9 v 3 d 11.2

2nd comp. 10.8 C 3 v 11.1 11.0 = 11.05

11.0 v 2 d 11.2

3rd comp. 10.8 C 4 v 11.2 11.0 = 11.10

11.0 v 2 d 11.2

4th comp. 10.8 C 4 v 11.2 11.1 = 11.10

11.0 v 2 d 11.2

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1894phae.proj..8065

June 7, 1895.

Var. in G.C. 3636.

Plate A 149

9.5	a	8.4	9.5
8.4	b	9.2	10.3
1.1	c	9.6	10.7
	d	10.0	11.1
	e	10.4	11.5
	f	10.7	11.8
	g	(11.0)	12.1
	h		
	k		
	Var.	9.9	11.1 11.1 = 11.10

Plate A

11.2	d	2	11.4	11.3 = 11.35
11.3	2	3	e	11.6

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1894phae.proj..806F

June 11, 1895.

Meas. d Miss L. D. Wells new variable star in BD -7° 2873 9 35 32.7 -7° 26.5
9 37.7 -7° 38 (1900).

Plate I 12620

a	5.5	8.0	BD -7° 2867	9 35.0	-7 6	8.2	8.3	
b	6.2	8.7	-7 2871	9 35.3	-7 25	9.1	9.8	a f
c	6.5	9.0	-7° 2868	9 35.2	-7 22	9.1	9.5	d
d	6.9	9.4	-7° 2869	9 35.2	-7 14	9.0	9.3	b e
e	7.4	9.9	-7° 2872	9 35.5	-7 28	9.6		k
f	7.8	10.3					9.0	g b i e
g	8.3	10.8						
h	~~9.0~~ 8.8	11.3						
k	9.2	11.8						

9.0
6.5
2.5

var 7.4 $9.8^{82}\ 9.9^{88}\ 9.9^{84} = 9.87^{6}$ .04 .02 .02

9.32 d s v $9.8^{82}\ 9.9^{88}\ 9.9^{84} = 9.87^{6}$ .04 .02 .02
9.88 v o e 9.9^{88}
9.88 v 4 f 10.3^{28}

Plate B 2246

9.32 d s v $9.8^{82}\ 9.8^{78} = 9.80$ .02 .02
9.78 v i e 9.9^{88}

Plate B 2555

9.32 d 4 v $9.7^{72}\ 9.9^{88}\ 9.8^{78} = 9.80^{79}$ .07 .09 .01
9.88 v o e 9.9^{88}
9.87 v 5 f 10.3^{28}

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1894phae.proj..806F

June 11, 1895.

Meas. of BD -7° 2873 (Cont) L.D. Wells rai.

Plate I 283

10.328 f 1 r 10.438 10.328 = 10.353 .05 .05
10.328 r 5 g 10.878

Plate I 3319

10.328 f 3 r 10.658 10.659 = 10.658 .00 .01
10.659 r 2 g 10.879

a	6.5	8.1	
b	7.1	8.7	
c	7.3	8.9	
d	7.7	9.3	7.36
e	8.2	9.8	
f	8.6	10.2	9.0 / 7.4 / 1.6
g	9.1	10.7	
h	9.6	11.2	
k	10.2	11.6	
vw	8.9		

10.658 10.658 10.658 = 10.658 .00 .01 .00

Plate I 5662

9.32 d 5 r 9.682 9.878 = 9.80 .02 .02
9.878 r 1 e 9.988

a	6.0	8.2	f	8.3	10.5
b	6.5	8.7	g	8.9	11.1
c	6.7	8.9	h	9.4	11.6
d	7.0	9.2	k	9.9	12.1
e	7.8	10.0	vw	7.8	

6.80

9.0 / 6.8 / 2.2

10.1 9.9 9.8 = 9.93 .09 .05 .15

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1894phae.proj..806F

June 11, 1895

Meas. of BD −7° 2873 (Cont.) L. D. Wilson

Plate I 5810

9.32 d 5 r 9.82 9.878 = 980 .02 .02
9.878 r 1 e 9.988

Plate I 5880

9.32 d 5 r 9.82 9.988 9.988 = 9.876 .04 .02 .02
9.988 r 0 e 9.988
9.988 r 4 f 10.328

Plate I 5893

9.32 d 5 r 9.82 9.878 = 980 .02 .02
9.878 r 1 e 9.988

Plate I 8089

9.32 d 6 r 9.92 9.988 9.878 = 9.876 .06 .02 .08
9.988 r 0 e 9.988
9.878 r 5 f 10.328

Plate I 8223

9.32 d 6 r 9.92 9.988 9.988 = 9.990 .03 .01 .01
9.988 r 0 e 9.988
9.988 r 4 f 10.328

Plate I 10004

9.32 d 5 r 9.82 9.988 9.988 = 9.876 .04 .02 .02
9.988 r 0 e 9.988
9.988 r 4 f 10.328

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1894phae.proj..806F

June 11, 1895.

Meas. of BD −7° 2873 (Cont.) L. D. W. 5 var.

Plate I 12100

9.32 d 6 v 9.92 9.98 10.0 = 9.93 .01 .05 .05
9.988 v 0 e 9.988
100 v 3 f 10.328
9.98

Plate I 12328

9.32 d 5 v 9.82 9.98 = 9.85 .03 .03
9.988 v 0 e 9.988
f off plate

Plate I 12357

9.768 v 2 e 9.988 = 9.768
d & f off plate

Plate I 12499

Too faint to est. Or edge of pl.

Plate 3 10967

9.988 e 1 v 9.98 9.98 9.98
10.00 10.0 = 10.00 .00 .00
10.328 v 3 f 10.328
9.98

Plate I 12625

9.988 e 2 v 10.08 10.08 = 10.08 .00 .00
10.08 v 2 f 10.328

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1894phae.proj...806F

June 11, 1895.

Meas. of BD -7° 2873 (Ont.) L.D.W.s var.

Plate I 12629

9.3 2	d 4 v	9.7 2	9.8 78	= 9.75	.03 .03
9.8 78	v 1 e	9.9 88			

a	6.4	8.0
b	7.1	8.7
c	7.4	9.0
d	7.7	9.3
e	8.2	9.8
f	8.5	10.1
g	8.9	10.5
h	9.3	10.9
k	9.8	11.4
var.	8.0	

7.36

9.0 / 7.4 / 1.6

9.6 2	9.7 68	= 9.65	.03	.03

Plate I 12636

9.3 2	d 5 v	9.8 2	9.9 88	9.9 88	= 9.87 6	.04 .02 .02
9.9 88	v o e	9.9 88				
9.9 88	v 4 f	10.3 28				

Plate I 12637

9.3 2	d 4 v	9.7 2	9.8 78	= 9.75	.03 .03
9.8 78	v 1 e	9.9 88			

Plate I 12647

9.3 2	d 6 v	9.9 2	9.9 54	9.9 54	= 9.90 49	.03 .01 .01
9.9 88	v o e	9.9 88				
9.9 48	v 4 f	10.3 28				

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June 11, 1895.

Meas. of BD −7° 2873 (Cont.) L.D.W.'s van

Plate I 12655

9.32 d 6 v 9.92 9.98 9.98 = 9.90 .03 .01 .01
9.988 v o e 9.988
9.988 v 4 f 10.328

Plate I 12680

9.32 d 6 v 9.92 9.98 9.98 = 9.90 .03 .01 .01
9.988 v o e 9.988
9.988 v 4 f 10.328

Plate I 12692

9.32 d 6 v 9.92 9.98 9.98 = 9.90 .03 .01 .01
9.988 v o e 9.988
9.988 v 4 f 10.328

Plate I 12715

9.32 d 6 v 9.92 9.98 9.98 = 9.90 .03 .01 .01
9.988 v o e 9.988
9.988 v 4 f 10.328

Plate I 12717

9.32 d 6 v 9.92 9.98 10.0 = 9.93 .01 .05 .05
9.988 v o e ~~10.3~~ 9.988
10.0 v 3 f 10.328
9.98

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June 11, 1895.

Meas. of BD -7° 2873 (Cont.) L.D. Wis var.

Plate I 12737

Plate

9.3 2 d 6 v 9.9 2 9.9 88 10.0 9.98 = 99.3 .01 .05 .05

9.9 88 v 0 e 9.9 88

10.0 v 3 f 10.3 28

9.98

	a	6.0	8.1
	b	6.7	8.8
6.9	c	6.9	9.0
	d	7.2	9.3
	e	7.7	9.8
9.0	f	8.1	10.2
6.9	g	8.6	10.7
2.1	h	9.0	11.1
	k	9.6	11.7

var 7.7 9.8 2 9.9 88 9.9 88 = 9.8 7 6 .04 .02 .02

Plate I 12746

9.9 88 e 3 v 10.1 8 10.1 08 = 10.1 9 3 .05 .05

10.1 08 v 2 f 10.3 28

Plate I 12750

9.9 88 e 1 v 10.0 9.98 10.1 08 = 10.05 3 .05 .05

10.1 08 v 2 f 10.3 28

Plate I 12751

9.9 88 e 1 v 9.98 10.0 9.98 10.0 = 10.00 .00 .00

10.0 9.98 v 3 f 10.3 28

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1894phae.proj..806F

June 11, 1895.

Mean of BD-7°2873 (Cont) L.D. W. var

Plate I 12762

9.9 88 e 2 r 10.1 08 10.2 18 = 10.15 3 .05 .05

10.2 18 r 1 f 10.3 28

Plate I 12788

9.9 88 e 3 r 10.2 18 10.3 28 10.3 28 = 10.27 5 .07 .03 .03

10.3 28 r 0 f 10.3 28

10.3 28 r 5 g 10.8 78

Plate I 12828

9.3 2 d 5 r 9.82 9.9 88 9.9 88 = 9.87 6 .04 .02 .02

9.9 88 r 0 e 9.9 88

9.9 88 r 4 f 10.3 28

Plate I 12845

10.3 28 f 1 r 10.4 38 10.3 28 = 10.35 33 .05 .05

10.3 28 r 5 g 10.8 28

Plate I 12914

10.3 28 f 1 r 10.4 38 10.3 28 = 10.35 3 .05 .05

10.3 28 r 5 g 10.8 78

Plate C 7794

9.9 88 e 3 r 10.2 18 10.2 18 = 10.20 18 .00 .00

10.2 18 r 1 f 10.3 28

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1894phae.proj..806F

June 11, 1895.

Meas. of B.D. -7 2873 (Cont) L.D.W.'s var.

Plate C 7800

9.988 e 3 v 10.218 10.218 = 10.218 .00 .00

10.218 v 1 f 10.328

Plate C 7739

9.988 e 3 v 10.218 10.218 = 10.218 .00 .00

10.218 v 1 f 10.328

Plate C 7754

9.988 e 2 v 10.108 9.998 = 10.053 .05 .05

100 v 3 f 10.328

9.998

Plate C 7748

9.988 e 1 v 9.998 9.998 = 9.998 .00 .00

100 v 3 f 10.328

9.998

Plate C 7819

9.988 e 3 v 10.218 10.108 = 10.153 .05 .05

10.108 v 2 f 10.328

C 7853 very legible

Plate C 7874 —

Plate C 7684 —

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1894phae.proj..806F

June 11, 1895.

Meas. of BD-7° 2873 (Cont) L.D. Wijnan

Plate c 7684 —

Plate c 7756 Nucleus

c 7845 Wing region

c 7846 Wing region

Plate c 7738 —

c 7747 Wing region

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1894phae.proj..806F

June 20, 1895.

Meas. of new var. star in Cancer,
R.A. 9h 4.0m Dec. +25° 39' (1900). Sp. Md on I 1245 (16.3828)
Meas. positn B.D. K 81.

Plate I 2525

a	5.0	8.6	+26° 1902	9	0	51.6	+26	24.6	8.5 = 8.7
b	5.3	8.9	+25° 2056	9	2	52.8	+25	59.6	8.5 = 8.7
c	5.7	9.3	+26° 1908	9	2	48.1	+26	6.7	9.1 = 9.5
d	6.2	9.8	+25° 2051	9	0	9.6	+25	27.0	9.3 = 10.0
e	6.8	10.4	+25° 2053	9	0	43.6	+25	18.3	9.4 = 10.2
f	7.3	10.9							9.42
g	7.8	11.4							
h	8.4	12.0							
k	9.0	12.6							
l	9.5	13.1							
m	9.8	13.4							

9.4 just elongated
5.8
3.6
progress variable

var. 7.0 10.57 10.55 10.56 .01 .01

10.37 10.4 e 3 v 10.67 10.55 = 10.61 .06 .06
10.7 10.5 = 10.60

10.5 v 3 f 10.8
10.55 10.85

Plate I 253

11.39 11.49 11.59 = 11.54
11.4 g 1 v 11.5 11.5 = 11.50 .05 .05

11.5 v 4 h 11.9
11.59 11.99

Plate I 2462

9.81 d 4 v 10.21 10.37 = 10.25 .03 .03
10.3 v 1 e 10.4 37
27

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1894phae.proj..806F

June 20, 1895.

Meas. of new var. in Coma (Cont).

Plate I 2465

9.81 d 4 v 10.21 10.27 = 10.25 .03 .03
10.27 v 1 e 10.37

Plate I 2494

10.37 e 1 v 10.47 10.45 = 10.46 .01 .01
10.45 v 4 f 10.85

Plate I 8352

11.99 h = .2 12.19
v n.s. ∠12.19

Plate I 10381

9.29 c 3 v 9.59 9.61 = 9.60 .01 .01
9.61 v 2 d 9.81

Plate I 11918

11.39 g 4 v 11.79 11.99 = 11.89 .10 .10
11.99 v 0 h 11.99
h = .2

Plate I 2679

10.37 e 3 v 10.67 10.75 = 10.71 .04 .04
10.75 v 1 f 10.85

Plate I 3351

11.39 g 2 v 11.59 11.69 = 11.64 .05 .05
11.69 v 3 h 11.99

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1894phae.proj..806F

June 20, 1895.

Meas. of new var. in Cancer (Cont.)

Plate I 5659

11.99 h 2 v 12.19 12.29 = 12.24 .05 .05
12.29 v 2 k 12.49

Plate I 5831

12.49 k 3 v 12.79 12.82 = 12.80 .01 .02
12.82 v 1 l 12.92

Plate I 6034

13.32 m = .2 13.52
v n.s. < 13.52

Plate I 8209

11.89 g 5 v 11.89 11.89 = 11.89 .00 .00
11.89 v 1 h 11.99

Plate I 8246

11.99 h 4 v 12.39 12.39 = 12.39 .00 .00
12.39 v 1 k 12.49
k = 1

Plate I 8330

11.99 h = 1 12.09
var n.s. < 12.09

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1894phae.proj..806F

June 20, 1895.

Meas. of new var. in Camen (Cont).

Plate I 10003

10.37 e 3 v 10.67 10.55 = 10.60 .06 .06

10.55 v 3 f 10.85

Plate I 10951

11.99 h 1 v 12.09

k = n.s.

h = .3

Plate I 10566

9.81 d 2 v 10.01 9.97 = 9.99

10.00 v 4 e 10.37

9.97

Plate I 12477

9.81 d 1 v 9.91 9.97 = 9.95 .03 .03

10.00 v 4 e 10.37

9.97

Plate I 12846

11.99 h 1 v 12.09 14.19 = 12.05 .05 .05

12.19 v 3 k 12.49

Plate I 12913

11.99 h = 2 12.19

v n.s. < 12.19

a	7.4	8.6	d	8.6	9.8	k	7 7
b	7.7	8.9	e	9.1	10.3	l	7 7
c	8.1	9.3	f	9.5	10.7	m	7 7
			g	10.1	11.3	var	7 7

9.4 8.1 8.7 1.2

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1894phae.proj..806F

June 20, 1895

Meas. of new var. in Cancer (Cont).

Plate I 8246.

a	6.0	8.6
b	6.3	8.9
c	6.7	9.5
6.82 d	7.3	9.9
e	7.8	10.4
f	8.3	10.9
g	9.0	11.6
h	9.7	12.3
k	10.3	12.9
l	7	7
m	7	7
var	10.2	12.49 12.39 = 12.~~35~~ 44 .05 .05

9.4 − 6.8 = 2.6

Plate I 8209

a	6.8	8.7
b	7.0	8.9
c	7.3	9.2
7.46 d	7.8	9.7
e	8.4	10.3
f	8.8	10.7
g	9.3	11.2
h	10.0	11.9
k	10.5	12.4
l	7	7
m	7	7
var	9.9	~~12.0~~ 11.99 11.89 = 11.90 4 .05 .05

9.4 − 7.5 = 1.9

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1894phae.proj..806F

June 20, 1895.

Meas. of new var. in Cancer (Cont.)

Plate I 6034

	a	6.7	8.7
	b	6.9	8.9
	c	7.3	9.3
7.36	d	7.7	9.7
9.4	e	8.2	10.2
7.4	f	8.7	10.7
2.0	g	9.2	11.2
	h	9.7	11.7
	k	10.1	12.1
	l	10.5	12.5
	m	10.9?	12.9
	var	n.s.	

Plate I 5831

	a	6.0	8.5
	b	6.3	8.8
6.90	c	6.8	9.3
	d	7.4	9.9
9.4	e	8.0	10.5
6.9	f	8.5	11.0
2.5	g	9.0	11.5
	h	9.5	12.0
	k	9.9	12.4
	l	10.3	12.8
	m	10.8	13.3
	var	10.3	12.89 12.92 12.82 = 12.83

.01 .04 .06

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1894phae.proj..806F

June 20, 1895

Meas. of new nebulae in Canes (Cont.)

Plate I 12245

9.29 c 4 v 9.69 9.81 9.87 = 9.79 .10 .02 .08

9.81 v o d 9.81

9.97 v v e 10.37

a Cl H

b " H

c H? n?

d H

e H

f Irr H

van Md. Hj = 1.0 Hδ = 3.0

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1894phae.proj..806F

June 25, 1895.

Meas. of new var. star in Ursae Minoris.
Apparent position R.A. $15^h 35^m.4$ Dec. $+79° 7'$ (1855)
Op. Measd on pl. I 12158, 12173 & 12193 (Nos. 3681, 3685 & 3688 Meas. of prs. B4, p 82

Plate I 12767

var.	7.0	~~9.1 9.2 = 9.15~~	9.20 9.25 = 9.22	02	03
a	5.8	7.9	BD +80°478	15h 34m 29s +80° 16.0	7.8 7.9
b	6.4	8.5	+79°470	15 40 4 +79 40.2	8.0 8.1
6.33 c	6.8	8.9	+78°579	15 36 33 +78 47.8	9.0 9.3
d	7.3	9.3	—	—	8.43
e	7.8	9.9	(+79°467	15 35 18 +79 6.0	9.4)?
f	8.4	10.5			
g	8.8	10.9			
h	9.2	11.3			
k	9.6	11.7			

8.4 / 6.3 / 2.1

9.00 ~~8.9~~ 9.10 9.80 = 9.22

var. c r ~~9.0 9.3 = 9.15~~ 12 13

9.80 ~~9.3~~ r 2 d ~~9.5~~ 9.55

Plate I 11360

10.90 ~~10.9~~ g 3 r ~~11.2 11.1 = 11.15~~ 11.20 11.10 = 11.15

11.10 ~~11.1~~ r 2 h ~~11.3~~ 11.20 05 05

Plate I g w 3

9.80 9.90 = 9.90 05 05

9.55 ~~9.5~~ d 3 r ~~9.8 9.9 = 9.85~~ e 8.3 10.2

9.90 ~~9.9~~ r 1 e ~~10.0~~ 10.05 f 8.6 10.7

6.53 var. 6.4 8.0 [illegible] g 9.3 11.2

b 6.5 8.4 h ~~9.9~~ 9.5 11.4

8.4 / 6.5 / 1.9 c 7.0 8.9 k 9.9 11.8

d 7.7 9.6 var. 8.1 ~~9.9 9.8 = 9.85~~ 9.90 9.80 = 9.90 05 05

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1894phae.proj..806F

June 25, 1895.

Meas of New var. Stars in Ursa Minor (Cont).

Plate I 826

10.30 11.3 h 1 v ~~11.4 11.4 = 11.40~~ 10.40 11.42 = 11.41 01 01
11.42 ~~11.4~~ v 3 k ~~11.7~~ 11.72

	a	6.0	7.9
6.47	b	6.5	8.4
8.4	c	6.9	8.8
6.5			
1.9	d	7.4	9.3
	e	7.9	9.8
	f	8.4	10.3
	g	8.8	10.7
	h	9.2	11.1
	k	9.7	11.6
	var	9.3	~~11.4 11.4 = 11.40~~ 11.40 11.32 = 11.36 04 04

Plate I 12754

9.00 ~~8.9~~ c 5 v ~~9.4 9.4 = 9.40~~ 9.50 9.45 = 9.48 02 03
9.40 ~~9.4~~ v 1 d ~~9.5~~ 9.55

Plate I 6072

9.00 ~~8.9~~ c 4 v ~~9.3 9.3 = 9.30~~ 9.40 9.35 = 9.38 02 03
9.35 ~~9.3~~ v 2 d ~~9.5~~ 9.55

Plate I 1727

8.48 ~~8.4~~ b 1 v ~~8.5 8.4 = 8.45~~ 8.58 8.50 = 8.54 04 04
8.50 ~~8.4~~ v 5 c ~~8.9~~ 9.00

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1894phae.proj.806F

June 25, 1895.

Meas. of new var. in Ursa Minor (Cont.)

Plate I 1899

8.48 ~~8.4~~ b 3 v ~~8.7 8.7 = 8.70~~ 8.78 8.80 = 8.79 01 01
8.80 ~~8.7~~ v 2 c ~~8.9~~ 9.00

Plate I 9308

10.05⁻ ~~10.0~~ e 3 v ~~10.3 10.3 = 10.30~~ 10.35⁻ 10.30 = 10.32 03 02
10.30 ~~10.3~~ v 2 f ~~10.5~~ 10.50

Plate I 1928

7.98 ~~7.7~~ a 3 v ~~8.2 8.3 = 8.25~~ 8.28 8.38 = 8.33
8.38 ~~8.3~~ v 1 b ~~8.4~~ 8.48 05⁻ 05⁻

Plate I 9245

9.55 ~~9.5~~ d 3 v ~~9.8 9.8 = 9.80~~ 9.80⁻ 9.80 = 9.80⁻ 00 00
9.85⁻ ~~9.8~~ v 2 e 10.0 10.05⁻

Plate I 3845

7.98 ~~7.9~~ a 4 v ~~8.3 8.4 8.4 = 8.37~~ 8.38 8.48 8.40 = 8.42
8.48 ~~8.4~~ v a b ~~8.4~~ 8.48 04 06 02
8.40 ~~8.4~~ v 6 c ~~8.9~~ 9.00

Plate I 11874

10.50 ~~10.5~~ f 2 v ~~10.7 10.7 = 10.70~~ 10.70 10.70 = 10.70
10.70 ~~10.7~~ v 2 g ~~10.9~~ 10.90 = 00 00

Plate I 12812

9.00 ~~9.0~~ c 5 v ~~9.4 9.4 = 9.40~~ 9.50 9.45 = 9.48
9.45 ~~9.4~~ v 1 d ~~9.5~~ 9.55 02 03

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1894phae.proj..806F

June 25, 1895

Scale reading wrong by 2e Smith.

Meas. of new var. in Nasa Minn (Cont.)

Plate I 12738

9.00 ~~8.9~~	c 2 v	~~9.1 9.3 = 9.20~~	9.20	9.30 = 9.28	08	07
9.35 ~~9.3~~	v 2 d	~~9.5~~	9.55			
653	a 7.3	6.0	7.9			
	b 7.5	6.5	8.4			
84	c 8.1	7.1	9.0			
65	d 8.7	7.7	9.6			
19	e 9.2	8.2	10.1			
	f 9.6	8.6	10.5			
	g 10.0	9.0	10.9			
	h	9.4	11.3			
	k	9.8	11.7			
	var	7.3	~~9.1 9.1 = 9.10~~	9.20	9.15 = 9.18	02	03

Plate I 12839

9.00 ~~8.9~~	c 5 v	~~9.4 9.4 = 9.40~~	9.50	9.45 = 9.48	02	03
9.45 ~~9.4~~	v 1 d	~~9.5~~	9.55			

Plate I 11827

10.50 ~~10.5~~	f 1 v	~~10.6 10.6 = 10.60~~	10.60	10.60 = 10.60	00	00
10.60 ~~10.6~~	v 3 g	~~10.9~~	10.90			

Plate I 11875

10.05 ~~10.0~~	e 4 v	~~10.4 10.5 10.5 = 10.47~~	10.45	10.50	10.50 =	10.48
~~10.5~~	v 0 f	~~10.5~~	10.50		03 02 02	
10.50 ~~10.5~~	v 4 g	~~10.9~~	10.90			

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1894phae.proj..806F

June 25, 1895.

Mens. of new var. in Ursa Minor (Cont.)

Plate I 1693

10.90 ~~10.9~~	g 4 v	~~11.3 11.3 11.2 = 11.27~~	11.30	11.30	11.22 = 11.~~24~~	7 27
~~11.3~~	v a k	~~11.3~~	11.30		N ~~11~~ 03 03 05	
11.22 ~~11.2~~	v s k	~~11.7~~	11.72			

Plate I 2228

9.00 ~~8.9~~	c 4 v	~~9.3 9.3 = 9.30~~	9.40	9.35 = 9.38	
9.35 ~~9.3~~	v 2 d	~~9.5~~	9.55	02 03	

Plate I 12789

9.00 ~~8.9~~	c 3 v	~~9.2 9.3 = 9.25~~	9.30	9.35 = 9.32	
9.35 ~~9.3~~	v 2 d	~~9.5~~	9.55	02 03	

	a 6.5	8.0
6.9	b 6.9	8.4
8.4	c ~~7.4~~	8.9
6.9	d 8.0	9.5
1.5	e 8.4	9.9
	f 8.8	10.3
	g 9.2	10.7
	h 9.6	11.1
	k 10.0	11.5

var. 7.8 ~~9.3 9.3 = 9.30~~ 9.40 9.35 = 9.38

02 03

Plate I 12747

9.00 ~~8.9~~	c 5 v	~~9.4 9.4 = 9.40~~	9.50	9.45 = 9.48	
9.45 ~~9.4~~	v 1 d	~~9.5~~	9.55	02 03	

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1894phae.proj..806F

June 25, 1895.

Meas of. new var in Ursa Minor (Cont.)

Plate I 12904

9.00 ~~8.9~~ c 4 v ~~9.3 9.4 = 9.35~~ 9.40 9.45 = 9.42
9.40 ~~9.4~~ v 1 d ~~9.5~~ 9.05 02 03

	a	6.2	7.9
6.73	b	6.7	8.4
	c	7.3	9.0
8.4	d	7.8	9.5
6.7	e	8.4	10.1
1.7	f	8.8	10.5
	g	9.2	10.9
	h	9.6	11.3
	k	9.9	11.6
	var	7.7	~~9.3 9.4 = 9.35~~ 9.40 9.45 = 9.42

02 03

Plate I 12909

9.55 ~~9.5~~ d 2 v ~~9.7 9.8 = 9.75~~ 9.75 9.85 = 9.80
9.85 ~~9.8~~ v 2 e ~~10.0~~ 10.05 05 05

Plate I 12915

9.65 9.70 = 9.70 05 05
9.55 ~~9.5~~ d 1 v ~~9.6 9.7 = 9.65~~ g 9.2 ~~9.9~~ 10.9
9.75 ~~9.7~~ v 3 e ~~10.0~~ 10.05 h 9.6 11.3
k 9.9 11.8

	a	6.2	7.9
6.73	b	6.7	8.4
	c	7.3	9.0
8.4	d	7.9	9.6
6.7	e	8.4	10.1
1.7	f	8.8	10.5

var 8.1 ~~9.7 9.7 = 9.70~~ 9.75 9.75 = 9.75
00 00

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1894phae.proj.006F

June 25, 1895. Minor

Meas. of nov. var. in Nisa Region (Cont.)

Plate I 12932

9.95 10.05 10.00 =

9.55 ~~9.5~~ d 4 r ~~9.9 10.0 10.0 = 9.97~~ 10.00 05 05 00

~~10.0~~ r o e ~~10.0~~ 10.05

10.00 ~~10.0~~ r 5 f ~~10.5~~ 10.50

Plate I 12938

10.05 ~~10.0~~ e 2 r ~~10.2 10.3 = 10.25~~ 10.25 10.30 = 10.28

10.30 ~~10.3~~ r 2 f ~~10.5~~ 10.50 03 02

Plate I 12173 (Sp.)

8.48 ~~8.4~~ b 5 r ~~8.9 8.9 9.0 = 8.93~~ 8.98 9.00 9.05 = ~~8.88~~ 9.01

~~8.9~~ r o c ~~8.9~~ 9.00 03 01 04

9.05 ~~9.0~~ b r 5 d ~~9.5~~ 9.55

Sa Sp A

b F?

c H

d A?

e ns.

Plate I 12158 (Sp.)

8.48 ~~8.4~~ b 5 r ~~8.9 8.9 9.0 = 8.93~~ 8.98 9.00 9.05 = 9.01

~~8.9~~ r o c ~~8.9~~ 9.00 03 01 04

9.05 ~~9.0~~ r 5 d ~~9.5~~ 9.55

Plate I 12193 (Sp.)

8.48 ~~8.4~~ b 4 r ~~8.8 8.8 = 8.80~~ 8.88 8.98 = 8.89

8.98 ~~8.8~~ r i e ~~8.9~~ 9.00 01 01

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1894phae.proj..806F

June 25, 1895.

Meas. of new var. in Minor Ursa Major (Cont).

Plate I 12767 Comp. stars marked. Meas pos.
" " X3845 var be. enl. 3 times
" " 9243 var ft. enl. 3 times

June 27, 1895.

Meas. of new var. in Ursa Minor (Cont.)

Plate I 12970

10.05 ~~10.0~~ e 4 v ~~10.4 10.4 = 10.40~~ 10.40 − 10.40 = 10.42
10.40 ~~10.4~~ v 1 f ~~10.5~~ 10.50 03 02

Plate I 12989

10.05 ~~10.0~~ e 3 v ~~10.3 10.4 = 10.35~~ 10.35 − 10.40 = 10.38 03 02
10.40 ~~10.4~~ v 1 f ~~10.5~~ 10.50

Plate I 12999

10.05 ~~10.0~~ e 4 v ~~10.4 10.4 = 10.40~~ 10.45 − 10.40 = 10.42
10.40 ~~10.4~~ v 1 f ~~10.5~~ 10.50 03 02

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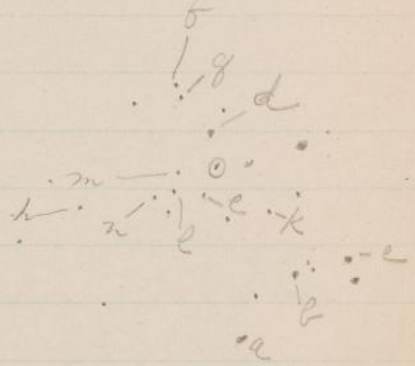
1894phae.proj..806F

June 27, 1895.

Meas. of new var. star in ~~Draco~~ ~~-14 4228 R.A. 15h 25m 2s Dec. -14° 50' 9.4 Op. Adler~~
~~I 12899 No. 3935.~~

Plate ~~B~~ 9983

a	5.3
b	5.7
c	6.1
d	6.6
e	7.0
f	7.4
g	7.9
h	8.5
k	8.9
l	9.2
m	9.6
n	10.0
var.	7.5



v = f
f + g

The above meas. relate to a star at -18°.

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1894phae.proj..806F

June 27, 1895.

Meas. of new var. star in Libra
SDM +14° 4228 R.A. 15h 25m 2s Dec. -14° 50' 9.4
Sp. Md on I 12899 No. 3935.

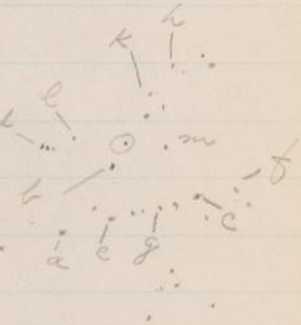
Plate B 9983

a	7.1	6.1	8.3	-14°	4136	15 24 30.9	-15 7.1	8.6
b	7.6	6.6	8.8	-14°	4227	15 24 57.8	-14 54.3	8.7
c	7.9	6.9	9.1	-14°	4234	15 26 11.2	-14 58.9	9.2
d	8.2	7.3	9.5	—	—		—	
e	8.6	7.6	9.8	—	—		—	
f	9.0	7.7	10.1	-14°	4236 ~~2638~~	15 26 38.0	-14 57.9	9.8
g	9.3	8.3	10.5					
h	9.5	8.8	11.0					
k	9.7	9.2	11.4					
l	10.0	9.6	11.8					
m	10.3	10.1	12.3					

6.88

9.1 / 6.9 / 2.2

9.08



var. 8.4 ~~9.7 9.6 = 9.65~~ 10.6 10.5 = 10.55

10.5 g 1 v 10.6 10.7 = 10.65

10.7 v 2.h 10.9

Plate I 12998

8.3 a 2 v 8.5 8.6 = 8.55

8.6 v 2 b 8.8

a	7.0	8.4	h	g	9.3	10.7
b	7.4	8.8	k	g	9.6	11.0
c	7.7	9.1	l	g	10.0	11.4
d	8.1	9.5	m	g	10.5	11.9
e	8.4	9.8				
f	8.6	10.0				
g	8.9	10.3				

7.68

9.1 / 7.7 / 1.4

var. 7.2 8.5 8.6 = 8.55

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1894phae.proj..806F

June 27, 1895.

Meas. of new var. in Libra (Cont.)

Plate I 12992

8.3 a 1 v 8.4 8.5 = 8.45
8.5 v 3 b 8.8
a 6.5 8.3
b 7.0 8.8
7.28 c 7.3 9.1
d 7.7 9.5
e 8.0 9.8
9.1 7.3 / 1.8 f 8.3 10.1
g 8.6 10.4
h 9.0 10.8
k 9.3 11.1
l 9.8 11.6
m 7 7
var 6.7 8.5 8.5 = 8.50

Plate I 12971

8.3 a 2 v 8.5 8.5 = 8.50
8.5 v 3 b 8.8
a 6.3 8.2
7.18 b 6.9 8.8
c 7.2 9.1
9.1 1.2 / 1.9 d 7.6 9.5
e 7.9 9.8
f 8.3 10.2
g 8.7 10.6
h 9.2 11.1
k 9.5 11.4
l 9.9 11.8
m 10.4 12.3
var 6.5 8.5 8.4 = 8.45

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1894phae.proj..806F

June 27, 1895.

Meas. of new var. in Libra (Cont.)

Plate I 13012

8.3 a 4 v 8.7 8.7 = 8.70
8.7 v 1 b 8.8

Plate I 1480

11.2 k = :2
v N.S. < 11.4

Plate B 2396

12.1 m = :2
v N.S. < 12.3

Plate B 2628

10.5 g 3 v 10.8 10.8 = 10.80
10.8 v 1 h 10.9

Plate Bg385

11.6 l = :2
v N.S. < 11.8

Plate B6397

11.6 l = :3
v N.S. < 11.9

Plate B5917

10.9 h = :1
v N.S. < 11.0

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1894phae.proj..806F

June 27, 1895.

Meas. of new var. in Libra (Cont.)

Plate B9982

10.5 g 3 v 10.8 10.7 = 10.75
10.7 v 2 h 10.9
a 6.4 8.3
~~Plate~~ b 6.9 8.8
7.2° c 7.2 9.1
d 7.7 9.6
9.1 e 8.0 9.9
7.2 v f 8.3 10.2
1.9 g 8.6 10.5
h 8.9 10.8
k 9.2 11.1
l 9.7 11.6
m 7. 7
var 8.7 10.6 10.7 = 10.65.

Plate B9386

11.6 l = 1
v n.s. < 11.7

Plate B7544

10.5 g = 3
v n.s. < 10.8.

Plate B7553

~~Plate~~ 8.8 b = 1
v n.s. < 8.9

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1894phae.proj..806F

June 27, 1895.

Meas. of new var. in Libra (Cont.)

Plate B 7546

10.1 f = .3
v ns. < 10.4

Plate B 7545

10.5 g = .1
v ns. < 10.6

Plate B 6396

11.6 l = .2
v ns. < 11.8

Plate B 6205

11.2 k = .3
v ns. < 11.5

Plate B ~~6475~~ 5916

11.6 l = .2
v ns. < 11.8

Plate I 12897 Sp.

8.8 p b i v 8.9 8.9 = 8.90
8.9 v 2 c 9.1
a Sp. g
b H
c F?
d G?
e F?

9382
Var. ~~6397~~ var ft.
Var. I 12971 var by
Comp stars B 9983

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1894phae.proj..806F

June 28, 1895.

Recens. of new var. star in Puppis. Ap. Mk
in B 12659. No. 6245. J.C. 3056 7 41 11.8 -41 53 9½ (1875)

Plate B 12338

					1875	1875		CAm	
a	5.6	7.8	J.C.	3227	7	44.0	-42	11.8	8	—
b	6.0	8.2		2778	7	38.5	-41	56.0	8½	3304 7.7
c	6.5	8.7		2876	7	39.8	-41	33.3	9	3324 8.7
d	7.0	9.2		3114	7	42.7	-41	53.0	9	3379 8.5
e	7.3	9.5		—	—	—	—	—	—	— —
f	7.6	9.8		3060	7	41.8	-41	49.9	9	3365 8.5
g	8.0	10.2		—	—	—	—	—	—	— —
h	8.4	10.6		—				5)435		3360
k	8.9	11.1		—				8.70		—
l	9.5	11.7		—						—
m	10.0	12.2		—		10.68		10.78	10.73	.05 .05
var.	8.3	10.7	10.8	10.75	J.C.	3056	7	41.8	-41 53	9½ 3363 9.8
		10.7	g	3 v		10.7		10.7	= 10.7	.00 .00
		10.7	v	2 N		10.9				

Plate B 4631

a	5.0	7.7	l	9.5	12.2	
b	5.5	8.2	m	10.1	12.8	
c	6.0	8.7	var.	7.1	9.8	9.8 0 = 9.80' .01 .01
d	6.5	9.2	9.5	2 e	3 v	9.8 9.8 0 = 9.80' .01 .01
e	6.8	9.5	9.8	0 v	1 f	9.9 0
f	7.2	9.9				
g	7.8	10.5				
h	8.4	11.1				
k	8.9	11.6				

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1894phae.proj..806F

June 28, 1895.

Meas. of new var. star in Puppis (Cont.)

Plate B10527

9.90 b 2 v 10.10 / 9.98 / 10.0 = 10.04 .06 .06
10.0 / 9.98 2 4 g 10.438

Plate B4342

10.438 g = .2
v 7.5. < 10.658

Plate B 4504

10.438 g = .4
v 7.5. < 10.878

Plate B 10337

11.438 ~~10.9~~ k 4 v ~~11.5~~ 11.78 11.90 = 11.804 .06 .06
11.90 v o c 11.90
m 7.5.

Plate B 10338

11.90 c 1 v 12.00 12.10 = 12.05 .05 .05
12.30 v 3 m 12.40

7.08

a	6.0	7.6		h 9.3	10.9	
b	6.5	8.1		k 9.8	11.4	
c	7.0	8.6		l 10.2	11.8	
d	7.5	9.1		m 10.7	12.3	
e	8.0	9.6		var 10.4	12.10 12.10 = 12.10	.00 .00
f	8.4	10.0				
g	8.9	10.5				

8.7
7.1
1.6

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1894phae.proj..806F

June 28, 1895.

Meas. of nebr. var. in Pegasi (Continued)

Plate B 10490

9.90 f 4 r 10.4[30] 10.4[38] = 10.4[34] .04 .04

g of Plate.

10.4[38] r 5 f h 10.9[88]

Plate B 10554

9.90 f 1 r 10.00 9.90 = 9.95 .05 .05

9.90 r 5 g 10.40

Plate B 10555

9.52 e 4 r 9.92 9.90 9.9[88] = 9.90 .02 .00 .02

on edge of plate

9.90 r o f 9.90

9.9[88] r 5 g 10.4[38]

Plate B 10548

10.8[78] r 1 h 10.9[88] = 10.8[78]

g toward edge of plate

Plate B 12338

a	5.4	7.6	k	9.2	11.4		
b	5.9	8.1	l	9.8[7]	11.9		
c	6.4	8.6	m	10.1	12.3		
d	6.9	9.1	nav.	8.4	10.7[68] 10.6[58] = 10.6[3]	.05	.05
e	7.3	9.5	10.4[38]	g 3 r	10.7[68] 10.7[68] = 10.7[68]	.00	.00
f	7.7	9.9	10.7[68]	r 2 h	10.9[88]		
g	8.1	10.3					
h	8.7	10.9					

6.46

8.7
6.5
9.2

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1894phae.proj..806F

June 28, 1895.

New variable star in Puppis (Cont.)

Plate B12659

a bl A
b A
c A
d ✱7
e ✱7
g Ion ft.

nav. Md. Hy = 1.0; Hδ = .9

9.52 e 4 v 9.92 9.90 = 9.90 .01 .01
9.90 v o f 9.90
g n.s.?

Plate B4631 var ft. Cmd 3 times
" " 10338 var br. Cmd 3 times
" " 12338 Comp stars.
" " 12659 Pf. Md.

Variability confirmed by Professor E. C. Pickering April 4, 1895.

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1894phae.proj..806F

June 28 1895

Meas. of new var. star in Fielenius
Sp. Md. on plate B12293 No. 5825, CDM −24°1960 3h 49m.9 −24° 24' 8.6 (1875).

Plate B11935

a	d	4.1=4.4	6.9	CDm 2001	3	53.2	−24°	9.5	7.9	3.c.16328 Ayc. 4422 8¼
b	d	5.0	7.5	1642	3	50.8	−23	47.8	7.9	15588 4388 7½
c	f	5.7	8.2	1461	3	50.6	−23	55.5	8.4	1549 8½ 4379
d	f	6.2	8.7	1940	3	48.1	−24	6.5	9.1	—
e	d	6.7	9.2	1961	3	50.2	−24	23.1	9.1	—
f	e	7.0	9.5	1969	3	50.8	−24	15.7	9.6	—
g	f	7.7	10.2	1965	3	50.3	−24	23.3	9.5	—
h	f	8.2	10.7	1974	3	51.1	−24	16.7	9.8	—
									8.92	
k	f	8.6	11.3							
l	f	9.3	11.8							

8.9 6.4 2.5

var. 57 ~~7.5 7.6 7.5 = 7.5~~ ~~8.1 8.2 8.3 = 8.20~~ 8.35 8.35 8.33 = 8.34 .01 .01 .01

8.35 8.2 f f 1 v ~~8.3 8.5 = 8.40~~ ~~8.5~~ 8.53 = 8.49 ~~.06~~ .04 ~~.06~~ .04

8.53 8.5 v 3 f ~~8.8~~ 8.83

Plate I 2937

9.60 ~~9.5~~ f f 4 v ~~9.9 9.9 = 9.90~~ 10.00 10.00 = 10.00 .00 .00

10.00 ~~9.9~~ v 2 fg ~~10.1~~ 10.20

Plate I 2947

9.5 60 f f 3 v 9.8 90 7

Plate I ~~2953~~ B4156

9.5 60 f f 3 v 9.8 9.9 90 10.00 = 9.85 .05 .05

9.9 v 2 fg 10.X20

10.00

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1894phae.proj.806F

June 28, 1895

Meas. of new var. in Eridanus (Cont.)

Plate B4489

6.8 70 a 3 v 7.X 00 7.45 = 7.25 2 .22 .23
7.45 v 2 b 7.65

Plate B4595

7.65 b 1 v 7.75 7.X 85 = 7.X 8 .05 .05
7.X 85 v 5 c 8.X 35

Plate B5730

8.83 d 4 v 9.23 9.05 = 9.10 4 .09 .09
9.05 v 2 e 9.25

Plate B7067

8.83 d 2 v 9.03 8.95 = 8.95 9 .04 .04
8.95 v 3 e 9.25

PlateB7171

8.05 8.00
7.65 b 3 v 7.95 7.9 = 7.90 .05 .05
7.9 v 3 c 8.X 35
8.05

Plate B8873

10.20
9.5 g 3 v 10.50
c n.s.
9.8

1894phae.proj..806F

July 3, 1895.

Meas. of new variable in Eridanus (Cont.)

Plate 11882

8.35 8.45
8.7 c l r 8.3 8.43 = 8.35 44 .01 .01
8.43 r 4 l d 8.83

a	b	5.2	6.6
b	b	6.2	7.6
c	b	6.9	8.3
d	c	7.5	8.9
e	d	7.8	9.2
f	e	8.2	9.6
g	f	8.7	10.1
h	g	9.2	10.6
k	h	9.8	11.2
e	k	ns.	7

7.46

8.9 / 1.5 / 1.4

raw 7.1 8.4 55 8.5 43 = 8.45 9 .06 .06

Plate B10673

9.5 60 t 2 r 9.7 80 9.8 90 = 9.75 8 .05 .05
9.8 9.0 r 3 fg 10.X20

Plate B10690

9.25 t 3 r 9.55 9.5 60 9.7 80 = 9.55 65 .10 .05 .15
9.5 60 r 0 t 9.560
9.7 80 r 4 fg 10.X20

Plate B12482

9.5 60 t 3 r 9.8 90 10.00 9.9 = 9.85 .05 .05
9.9 r 2 fg 10.X20
10.00

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1894phae.proj..806F

July 3, 1895.

Meas. of new vars. in Eridanus (Cont).

Plate B 12620

9.60 f 3 v 9.90 10.00 = 9.95 .05 .05
9.99 v 2 f 10.20
10.00

Plate B 12434

9.25 e f 3 v 9.55 9.50 = 9.52 .03 .02
9.50 v 1 f 9.60

Plate B 12243 Sf

a f Sp. A
b a Z
c b H
d c A?
e d ns.
var Md Hγ = 1.0 ; Hδ = 1.0

7.65 f b 4 v 8.05 7.99 = 7.95 .00 .00
7.99 v 3 f c 8.35
8.05 8.05

Plate B 12397

8.35 f c = .2 < 8.55
v ns. < 8.4

Plate B 12703

10.72 h g 3 v 11.02 11.03 = 11.02 .00 .01
11.03 v 4 k k 11.43

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1894phae.proj..806F

July 3, 1895.

Pass of new var. star in Fridaux (Cont.)

Plate B 1935

a	d	40 43	6.9	
b	a	50	7.6	
c	d	57	8.1	
d	a	6.1	8.7	
e	d	6.5	9.1	
f	e	7.0 6.9	9.5	
g	d	7.6	10.2	
h	d	8.2	10.8	6.29
k	d	9.0	11.6	
l	d	9.5	12.1	
var.		5.2	8.2 5 8.X 33 2 = 8.X 29	.04 .04
		7.7	8.3 45 8.4 3 = 8.35 44	.01 .01
		8.43 var d	8.83	

8.9 / 6.3 / 2.6 / 8.35

Plate B 1935 — 12882

a	d	5.4	6.8	
b	a	6.3	7.7	
c	d	7.0	8.4	
d	c	7.4	8.8	
e	d	7.9	9.3	
f	e	8.2	9.6	
g	f	8.7	10.1	7.52
h	g	9.3	10.7	
k	h	10.0	11.4	
l	h	10.5	7 45	
var.		7.1	8.3 8.53 = 8.49	.04 .04

8.35 8.2 cl 8.4 7.85 8.43 1d

8.45 8.43 8.44 8.3 8.4 = 8.35 .01 .01 8.8 8.8

8.9 / 7.5 / 1.4

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1894phae.proj..806F

July 6, 1895.

Meas. of Miss C.F. Leland's new var. in Orion, BD +0°939. Photo. Magn. on Plate B2945 as measured by C.F.L. and M.F. does not agree. Plate B 2945 Second measure

9.X[07] c 4 v 9.5[47] 9.6[55] 9.5[45] = 9.53[49] .02 .06 .04

9.6[55] v o d 9.6[55]

9.5[45] v 5 e ~~10~~ 9.95

Miss Leland's magn. (8.5) probably is due to an erroneous reading of the scale, being out by one unit.

Meas. of new var. in Ursa Minor to confirm magn on plates BI 1928 and I 1899

Plate I 1928

8.48 ~~8.4~~ b 1 v ~~8.5 8.5 = 8.50~~ 8.58 8.60 = 8.59

8.60 ~~8.5~~ v 4 c ~~8.9~~ 9.00 .01 01

Plate I 1899

8.48 ~~8.4~~ b 2 v ~~8.6 8.6 = 8.60~~ 8.68 8.70 = 8.69

8.70 ~~8.6~~ v 3 c ~~8.9~~ 9.00 .01 01

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1894phae.proj..806F

September 28, 1895.

Meas. to determine magnitudes of V Cassiopeiae for J. A. Parkhurst. See letter of August 10, 1895.

Plate I 7450

Var.	9.1	11.7	11.7 = 11.70	BD +58° 2560
a	6.6	9.2	=	BD +59° 2673 23 7 44.8 +59 1.2 8.5 8.7
b	6.9	9.5	=	BD +59° 2663 23 4 44.5 +59 11.1 9.0 9.3
c	7.4	10.0	=	BD +59° 2659 23 4 25.0 +59 7.8 9.5 10.5
d	7.8	10.4	=	BD +58° 2559 23 5 27.2 +58 48.9 9.5 10.5
e	8.3	10.9		
f	8.6	11.2		
g	8.9	11.5		
h	9.4	12.0		
k	9.8	12.4		
l	10.3	12.9		

7.18

9.78

9.6 / 2.6

11.5 9.2 v 11.7 11.7 = 11.70

11.7 v 3 h 12.0

Plate I 1589

11.5 9.1 v 11.6 11.7 = 11.65.

11.7 v 3 h 12.0

Plate I 4540

Continued on p. 188

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1894phae.proj..806F

September 30, 1895.

Exam. of 5 enl's of cluster 5 M Sibrae
to confirm variation of 60 stars N.G.C. 5904 G.C. 4083

Enl. of Plates

No 1	Var. conf. &	G.C.P. ⌐ M.T.	
" 2	var conf	G.C.P. ⌐ M.T.	
" 3	var conf.	G.C.P. ⌐ M.T	
" 4	var. conf	G.C.P. ⌐ M.T	
" 5	var. conf.	G.C.P. ⌐ M.T.	
" 6	var not conf.		look up original neg.
" 7	var not conf		" " " "
" 8	var. conf.	G.C.P. ⌐ M.T.	
" 9	var. conf	G.C.P. ⌐ M.T.	
" 10	var. conf.	G.C.P. ⌐ M.T.	
" 11	var. conf.	G.C.P. ⌐ M.T.	
" 12	var. conf.	G.C.P. ⌐ M.T.	
" 13	var not conf		look up original neg.
" 14	var. conf	G.C.P. ⌐ M.T.	
" 15	not conf		look up original neg.
" 16	var. conf	G.C.P. ⌐ M.T.	
" 17	var. conf	G.C.P. ⌐ M.T.	
" 18	var. conf.	G.C.P. ⌐ M.T.	
" 19	var. conf	G.C.P. ⌐ M.T.	
" 20	var. conf.	G.C.P. ⌐ M.T.	
" 21	var conf.	G.C.P. ⌐ M.T.	
" 22	var. not conf ?		look up original neg.
" 23	var. not conf		look up original neg.

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1894phae.proj..806F

Sept. 30, 1895.

Obsn. of Professor S. I. Bailey's vars (Cont)

24	var. conf.	G.C.P. & M.F.	
25	not conf		look up on original plates
26	var. conf	G.C.P. & M.F.	
27	var. conf	G.C.P. & M.F.	
28	var. conf	G.C.P. & M.F.	
29	var. conf.	G.C.P. & M.F.	
30	var. conf.	G.C.P. & M.F.	
31	var. conf.	G.C.P. & M.F.	
32	var. conf.	G.C.P. & M.F.	
33	var. conf.	G.C.P. & M.F.	
34	var. conf	G.C.P. & M.F.	
35	var. conf.	G.C.P. & M.F.	
Oct. 1	36	var.?	look up on original plates
Sept. 30	37	var conf.	G.C.P. & M.F.
Oct. 1	38	var. conf	G.C.P. & M.F.
	39	var. conf	G.C.P. & M.F.
	40	var. conf	G.C.P. & M.F.
	41	var. conf.	G.C.P. & M.F.
	42	var.?	look up on original plates
	43	var. conf.	G.C.P. & M.F.
	44	var. conf.	G.C.P. & M.F.
Oct. 2, 1895	45	var. conf.	G.C.P. & M.F.
	46	var. conf	G.C.P. & M.F. var small
	47	var. conf.	G.C.P. & M.F. var small
	48	not conf.	look up on original plates
	49	not. conf	look up on original plates
	50	var. conf.	G.C.P. & M.F.

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1894phae.proj..806F

51 var ? look up on orginal plates.
52 var. conf. E.C.P. r M 7.
53 var not conf look up on orginal plates
54 var. not conf look up on orginal plates
55 var. ? look up on orginal plates
56 var. conf. E.C.P. r M 7.
57 var. conf. E.C.P. r M 7
58 var. conf. E.C.P. r M 7.
59 var. conf. E.C.P. r M 7
60 var. conf. E.C.P. r M 7.
61 var. Conf E.C.P. r M 7.

46 of the variables in 5 M Libræ have thus been confirmed.

42 = D. Packer's star "a" announced as variable in the English Mechanic Vol p.

62 Marked by Professor E. C. Pickering Sept 1895.

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1894phae.proj..806F

Lyston October 2, 1895.

Meas. of V Cassiop. Cont. from p. 184.

Plate I 4540

12.0 h 3 r 12.3 12.3 = 12.30
12.3 r 0 k 12.3

Plate I 7449

11.5 g 1 r 11.6 11.6 = 11.60
11.6 r 4 h 12.0
a 6.4 9.1
b 6.9 9.6
c 7.3 10.0
d 7.8 10.5
e 8.4 11.1
f 8.7 11.4
g 9.0 11.7
h 9.4 12.1
k 9.5 12.2
l 10.0 12.7
var. 9.0 11.5 11.5 11.6 = 11.53

Plate I 9120

12.0 h 1 r 12.1
r = .1
k n.s.

Plate I 9151

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1894phae.proj..806F

October 2, 1895.

Meas. of V Cassiop (Cont).

Plate I 9151

12.3 k = .3

v ns. < 12.6

a	6.8	9.0
b	7.4	9.6
7.58 c	7.8	10.0
d	8.3	10.5
9.8 7.6 2.2 e	8.7	10.9
f	9.0	11.2
g	9.3	11.5
h	9.8	12.0
k	10.1	12.3
var	~~10.5~~	12.7

Plate I 9175

10.9 e = .3

v ns. < 11.2

Plate I 9196

12.7 l = .3

v = .1 ? # 12.9 ?

Plate I 9329

12.3 k 4 v 12.7 12.7 = 12.70

12.7 v 0 l 12.7

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1894phae.proj..806F

October 2, 1895.

Mess. of Vlassiop (Cont.)

Plate I 9352

12.3 k 3 v 12.6 12.6 = 12.60
12.6 v 1 l 12.7

Plate I 9717 Plate too poor to measure

Plate I 9732

10.0 c 3 v 10.3 10.3 = 10.30
10.3 v 2 d 10.5

Plate I 9756

Plate too poor

9.6 b 4 v 10.0 9.8 = 9.90
9.8 v 2 c 10.0

Plate I 9774

Near edge of plate

10.0 c 1 v 10.1 10.2 = 10.15
10.2 v 3 d 10.5

Plate I 10576

11.7 ~~12.7~~ f 3 v 11.5 11.3 = 11.40 ~~12.5 12.3 = 12.40~~
11.3 ~~12.3~~ v 2 g 11.5 ~~12.5~~

	a	7.2	9.2	g	9.5	11.5
	b	7.6	9.6	h	9.9	11.9
7.82	c	8.0	10.0	k	10.2	12.2
9.8	d	8.5	10.5	l	10.6	12.6
1.8	e	~~8.4~~ 8.8	10.8	ran	9.3	~~11.4~~ 11.3 = 11.35
2.0	f	9.1	11.1			

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1894phae.proj.:806F

October 2, 1895

Meas. of V classif. (Cont).

Plate I 10672.

11.5 g 4 v 11.9 12.0 12.0 = 11.97
12.0 v 0 h 12.0
12.0 v 3 k 12.3

Plate I 11457

11.2 f 2 v 11.4 11.3 = 11.35
11.3 v 2 g 11.5

Plate I 11465

11.2 f 4 v 11.6 11.5 11.6 = 11.57
11.5 v 0 g 11.5
11.6 v 4 h 12.0

Plate I 11592

12.3 k 1 v 12.4 12.4 = 12.40
12.4 v 3 k 12.7.

Plate I 11689

12.3 k = .2
$ v = .1 ? 12.4 ?
2 N.S.

Plate I 11819

12.3 k = .1
v N.S. : 2 12.4

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1894phae.proj..806F

October 2, 1895.

Meas. of V Cassiop. (Cont.)

Plate I 11922

12.0 h = 12

v ns. < 12.2

Plate I 12062

12.0 h 3 v 12.3 12.3 12.3 = 12.30

12.3 v o k 12.3

12.3 v 4 l 12.7

Plate I 13220

10.9 e 4 v 11.3 11.2 11.0 = 11.17

11.2 v o f 11.2

11.0 v 5 g 11.5

Plate I 13248 Plate too poor to show stars

Plate I 13462

10.0 c 1 v 10.1 10.2 = 10.15

10.2 v 3 d 10.5

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1894phae.proj..806F

October 3, 1895.

Meas. to determine photographic magnitudes of Professor S. I. Bailey's sequence of comparison stars for his variables in the Cluster 5 M Libræ. C.N.G.C.

Plate X 6784

a	6.6	10.3	α	6.0	9.7
b	7.1	10.8	β	6.7	10.4
c	7.9	11.6	γ	7.6	11.3
d	8.8	12.5		6.77	
e	9.5	13.2			
f	9.8	13.5			
g	10.1	13.8			
h	10.5	14.2			
l	h 4 l	14.6			
m	l 3 m	14.9			
n	m 2 n	15.1			
o	n 2 o	15.3			
p	o 2 p	15.5			
q	p 3 q ?	15.8 ?			

10.5
6.8
3.7

Plate X 6785

a	6.5	10.6	h	10.0	14.1	α	5.8 9.9
b	6.9	11.0	l	h t l	10.3 14.4	β	6.4 10.5
c	7.7	11.8	m	l 4 m	14.8	γ	7.1 11.2
d	8.6	12.7	n	m 2 n	15.0		6.43
e	9.1	13.2	o	n 2 o	15.2		
f	9.5	13.6	p	o 3 p	15.5		
g	9.8	13.9	q	p 3 q ?	15.8		

10.5
6.4
4.1

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1894phae.proj..806F

October 3, 1895

Measrs. to determine magns. of comp stars for var's in 5 M Libræ (Contd.)

Plate # 6786

a	6.0	10.2	α	5.6	9.8
b	6.8	11.0	β	6.4	10.6
c	7.7	11.9	γ	6.9	11.1
d	8.1	12.3		6.30	
e	~~8.5~~ 8.6	12.8			
f	9.0	13.2			
g	9.5	13.7			
h	9.8	14.0			
k	10.0	14.2			
m	10.3	14.5			
n	m 3 n	14.8			
o	n 2 o	15.0			
p	o 3 p	15.3			
q	p 3 q	15.6			

10.5
6.3
4.2

Plate # 6805

a	6.1	10.3	m	10.1	14.3	α	5.7 9.9
b	6.9	11.1	n	10.4	14.6	β	6.3 10.5
c	7.7	11.9	o	10.6	14.8	γ	6.9 11.1
d	8.1	12.3	o 1 1 3 p		15.1		6.30
e	8.6	12.8	q p 2 q		15.3		
f	9.1	13.1					
g	9.2	13.4					
h	9.6	13.8					
k	9.9	14.1					

10.5
6.3
4.2

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1894phae.proj..806F

October 4, 1895.

Meas. to determine Magns of Comp. obs for vars. in S M Librae

Plate X 6813

α	5.9	9.9	=BD+2°2942 15 11.1 +2 17.7 9.5 10.5
β	6.6	10.6	=BD+2° 2945 15 12.7 +2 50.0 9.5 10.5
653 γ	7.1	11.1	~~BD+2°~~ 2946 15 13.2 +2 37.9 9.5 10.5
a	6.5	10.5	
b	7.0	11.0	
c	7.9	11.9	
d	8.5	12.5	
e	8.8	12.8	
f	9.2	13.2	
g	9.5	13.5	
h	9.8	13.8	
l	10.0	14.0	
m	10.2	14.2	
n	10.5	14.5	
o	n 2 o	14.7	
p	o 2 p	14.9	
q	p 2 q	15.1	

10.5
6.5
4.0

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1894phae.proj..806F

October 4, 1895.

Measm of Ent. of X plates
(confirm)
to determine variation of
Professor Bailey's variables in the
Cluster 3 Messier. N.G.C. 5272 E.C.P. & M.F. obs.

	No.		
Oct. 4, 1895	1	var. Conf.	E.C.P. & M.F.
Oct. 16, 1895	2	var?	
Oct. 16, 1895	3	var. conf	1.0 magn
Oct. 16, 1895	4	var. conf	0.7 magn
Oct. 14, 1895	5	var. conf.	
Oct. 15, 1895	6	var. conf	1.0 magn
Oct. 16, 1895	7	var. conf	0.8 magn
Oct. 15, 1895	8	var. conf.	0.5 magn.
Oct. 16, 1895	9	var. conf	2.0 magn.
Oct. 14, 1895.	10	var. conf.	
Oct. 15, 1895	11	var. conf	2.5 magn
Oct. 4, 1895	12	var. conf	E.C.P. & M.F.
Oct. 4, 1895	13	var. conf.	
Oct. 4, 1895	14	var. conf.	
Oct. 16, 1895	15	var. conf	1.5 magn
Oct. 16, 1895	16	var. conf	1.0 magn.
Oct. 14, 1895	17	var. conf	
Oct. 4, 1895	18	var. conf.	
Oct. 14, 1895	19	var. conf.?	
Oct. 14, 1895	20	var. conf.	
Oct. 14, 1895	21	var. conf	
Oct. 14, 1895	22	var. conf.	2.0 magn.

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October 4, 1895.

Eclipse of Cont. of X plates (Cont.)

No.		
Oct. 15, 1895 23	var. conf	1.5 magn
Oct. 15, 1895 24	var. conf.	0.9 magn
Oct. 16, 1895 25	var. conf	1.0 magn
Oct. 16, 1895 26	var. conf	1.0 magn
Oct. 16, 1895 27	var. conf	1.5 magn
Oct. 4, 1895 28	var. conf.	
Oct. 4, 1895 29	var. conf.	
Oct. 15, 1895 30	var conf.	0.5 magn
Oct. 16, 1895 31	var. conf	2.5 magn
Oct. 16, 1895 32	var. conf	1.5 magn
Oct. 16, 1895 33	var. conf	1.5 magn
Oct. 14, 1895 34	var. conf	0.8 magn
Oct. 16, 1895 35	var. conf	2.0 magn
Oct. 14, 1895 36	var. conf	
Oct. 14, 1895 37	var. conf	0.8 magn
Oct. 15, 1895 38	var. conf	0.7 magn
Oct. 15, 1895 39	var. conf	0.7 magn
Oct. 15, 1895 40	var. conf	1.0 magn.
Oct. 15, 1895 41	var. conf	0.5 magn
Oct. 15, 1895 42	var. conf	0.7 magn
Oct. 14, 1895 43	var. conf.	0.8 magn
Oct. 14, 1895 44	var. conf	
Oct. 16, 1895 45	var. conf	2.0 magn
Oct. 15, 1895 46	var. conf	0.5 magn
Oct. 16, 1895 47	var. conf	0.6 magn
Oct. 16, 1895 48	var. conf	1.0 magn
Oct. 16, 1895 49	var ?	

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Exam of Ord. of X plates (Cont.)

	No		
Oct 14, 1895	50	var. conf.	
Oct. 14, 1895	51	var. conf.	
Oct. 15, 1895	52	var. conf	0.6 magn
Oct. 16, 1895	53	var. conf	1.5 magn
Oct. 15, 1895	54	var. conf	0.5 magn.
Oct. 15, 1895	55	var. conf	1.0 magn
Oct. 15, 1895	56	var conf	0.8 magn
Oct. 16, 1895	57	var. conf	0.5 magn
Oct. 15, 1895	58	var. conf	0.8 magn
Oct. 16, 1895	59	var. conf	1.0 magn
Oct. 16, 1895	60	var. conf	0.7 magn
Oct. 15, 1895	61	var. conf	
Oct. 15, 1895	62	var. conf	
Oct. 15, 1895	63	var. conf	
Oct. 15, 1895	64	var. conf	
Oct. 15, 1895	65	var. conf	0.5 magn.
Oct. 15, 1895	66	var. conf	0.5 magn
Oct. 15, 1895	67	var. conf.	0.5 magn
Oct. 14, 1895	68	var. conf.	
Oct. 14, 1895	69	var. conf	
Oct 14, 1895	70	var. conf ?	
Oct. 14, 1895	71	var conf	0.6 magn.
Oct. 14, 1895	72	var. conf	
Oct. 14, 1895	73	var ?	
Oct. 14, 1895	74	var ?	
Oct. 14, 1895	75	var ?	
Oct. 4, 1895	76	var. conf	

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Explan. of Cont. of X plates (Cont.).

	No.		
Oct. 15, 1895	77	var. conf.	0,6 magn.
Sept. 16, 1895	78	var. conf	0,5 magn.
Oct. 15, 1895.	79	var. conf	0.5 magn.
Oct. 15, 1895	80	var. conf	
Oct. 15, 1895	81	var. conf	
Oct 14, 1895	82	var conf	
Oct. 15, 1895	83	var. conf.	1,0. magn
Oct. 14, 1895	84	var ?	
Oct. 14, 1895	85	var. conf,	
Oct. 14, 1895	86	var. conf	
Oct. 14, 1895	87	var. conf	0.7 magn.
Oct 4, 1895	88	var. conf.	
Oct 4, 1895	89	var. conf.	
Oct 4, 1895	90	var. conf.	
Oct. 14, 1895	91	var. conf	
Oct. 14, 1895	92	var. conf	
Oct. 16, 1895	93	var. conf	1,3 magn
Oct. 16, 1895	94	var. conf	1,5 magn.
Oct. 15 1895	95	var. conf ?	0,3 or 0.4 ? magn
Oct. 4, 1895	96	var. conf.	

10 = ~~11~~ conf independently by (C. C. P.)

~~182~~ 28

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7

October 1895.

Meas. to determine magnitudes of Mr. Bailey's sequence of comparison stars for his variables in Messier 3.

Plate X 6844 Comp. stars marked on this pl.

α	5.6	= BD +29° 2448	13 35 4.9	+29° 11.3 9.1
β	5.8	= BD +29° 2452	13 35 47.5	+29 16.6 9.5
γ	6.7	BD + 29° 2453	13 37 17.5	+29° 23.3 9.5
a	8.2			
b	8.5			
c	8.9			
d	9.3			
e	9.45			
f	9.7			
g	9.8			
h	10.1			
k	10.3			
l	10.5			
m	l 2 m			
n	m 3 n			

Plate X 6863

α	5.6	e	9.9
β	5.7	f	10.1
γ	6.5	g f 3 g	10.3
a	8.7	h g 2 h	
b	9.0	k h 2 k	
c	9.4	l k 1 l	
d	9.6	m l 2 m	
		n m 3 n	

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1894phae.proj..806F

January 14, 1896

~~October 1, 1895~~

Meas. of Seg. of comp. stems (Cont.)

Plate X 6852

α	5.5
β	5.8
γ	6.5
a	8.4
b	8.7
c	9.0
d	9.2
e	9.6
f	9.7
g	10.1
h	g 3 h
k	h 2 k
l	k 2 l
m	l 2 m
n	m 3 n

Plate X ~~86~~ 6872

α	5.7
β	5.9
γ	6.7
a	8.7
b	9.0
c	9.3
d	9.5
e	9.8
f	10.0
g	10.2
h	g 3 h
k	h 2 k
l	k 2 l
m	l 2 m
n	m 2 n

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1894phae.proj..806F

October 18, 1895.

Meas. to determine identification of lines in ~~Object~~ bright line object discovered on Plate B 13828 (By Professor Kuhn Oct. 18, 1895).

Plate B 13828

mm. Scale	No. 1 = A.G.C. 24870 Type I 7.9		No. 2 = A.G.C. 24859 Type I 7.7		No. 3 = A.G.C. 24861 Type I 7.5	
Hβ	1.00		16.05		19.25	
Hγ	2.05	1.05	17.07	1.02	20.30	1.05
Hδ	2.65	.60	17.65	.58	21.00	.70
Hε	3.~~20~~15	.50	18.15	.50	21.40	.40
Hζ	3.35	.20	18.35	.20	21.60	.20

mm. scale	Br. line CDM −30°15469	α^{1875} 18h 8.1m	δ^{1875} −30° 57′ 10	Spectrum Peculiar. Similar to γ Leonis.
Hβ	10.25			
Hγ	11.30	1.05		
Hδ	11.85	.55		
Hε	12.25-30	40-45		
Hζ	12.50	25-20 (faint trace.)		

Plate 13828

Scale hundredths of mm

	No. 2		No. 3		No. 1		Br. line	
Hβ	00 39	39	00		00		00	
Hγ	~~62~~63	24	40	40	40	40	40	40
Hδ	81	18	64	24	65	25	64	24
Hε	93	12	81	17	81	16	81	17
Hζ	~~100~~		93	12	93	12	93 very faint	12?

Class of spectrum similar to that of γ Bayeux.

Shows that all bright lines identify with the hydrogen lines Hβ, Hγ, Hδ, Hε, and Hζ.

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1894phae.proj..806F

October 18, 1895.

Meas. to determine magnitudes of new variable
stn in ~~Hydra~~ Centaurus A.G.C. 19643 $14^h 25.1^m$ $-29° 39'$ (1900) 8½.
fp: Mc 5d on pl B, 13069 No. 6614.

Plate B 9536 — B 9536

var.	6.7	~~8.13 8.2 = 8.15~~	A.G.C. 19643	8.53	8.51 = 8.52	01	01	Chm.
a	6.3	7.8	A.G.C. 19601	14 23.7	-29 16 (1900)	8.4	8.2	
b	6.9	8.4	A.G.C. 19640	14 25.1	-29 44 (1900)	9	8.9	
c	~~7.3~~	8.8	J.C. 14h 1615	14 25.3	-29 46 (1875)	88	8.4	
d	7.6	9.1	J.C. " 1425	14 22.8	-29 22 "	9	9.1	
7.56 e	8.0	9.5	CDM -29° 11147	14 23.9	-29 23 "	-	9.4	
f	8.2	9.7	" -29° 11124	14 24.2	-29 38 "	-	9.4	
9.1 7.6 7.5 1.5 g	8.6	10.1	" -29° 11115	14 23.6	-29 32 "	-	10.	Comp. stars marked
h	8.9	10.4	— — — — — — — —				9.06	also on B 9537

8.13 ~~7.7~~ a 4 v ~~8.1 8.2 = 8.15~~ 8.53 8.51 = 8.52 01 01
8.51 ~~8.4~~ v 2 b ~~8.4~~ 8.71

Plate B 13069 fp.

a Cl. A K-H
b " H
c " H
d " ft.
var Mc

8.71 ~~8.4~~ b 4 v ~~8.8 8.7 = 8.75~~ 9.11 9.09 = 9.10 01 01
9.09 ~~8.7~~ v 1 c ~~8.8~~ 9.19

Plate B 11520 fp.

8.13 ~~7.7~~ a 4 v ~~8.1 8.1 = 8.10~~ 8.53 8.41 = 8.47 06 06
8.41 ~~8.1~~ v 3 b ~~8.4~~ 8.71

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1894phae.proj..806F

October 18, 1895.

Meas. of new var. in ~~Hydra~~ Centaurus (Cont)

Plate B 9544 Sp.

8.13 ~~7.7~~ a 4 v ~~8.1 8.2 = 8.15~~ 8.53 8.51 = 8.52 01 01
8.51 ~~8.2~~ v 2 b ~~8.4~~ 8.71

Plate B. 6061

8.71 ~~8.6~~ b 4 v ~~8.8 8.6 = 8.75~~ 9.11 8.99 = 9.05 06 06
8.99 ~~8.6~~ v 2 c ~~8.8~~ 9.19

Plate B 5181 Sp.

8.71 ~~8.4~~ b = .2 8.91
v n.s.? ~~8.6~~

Plate B 9537

8.13 ~~8.7.7~~ a 4 ‖ v ~~8.1 8.1 = 8.10~~ 8.53 8.41 = 8.47 06 06
8.41 ~~8.1 6~~ ‖ 3 b ~~8.4~~ 8.71

a	5.5	7.5
b	6.2	8.2
c	6.7	8.7
d	7.2	9.2
e	7.6	9.6
7.10 f	8.0	10.0
g	~~8.5~~	10.5
h	8.9	10.9
var	6.0	~~8.2 8.7 = 8.70~~ 8.63 8.51 = 8.57 06 06

9.1 7.1 2.0

1894phae.proj..806F

October 21, 1895.

Meas. of new var in ~~Hydra~~ Centaurus (Cont.)

Plate B 12862

9.19 ~~8.8~~ c 1 v ~~8.9 8.8 = 8.85~~ 9.29 8.97 = 9.13 16 16
8.97 ~~8.8~~ v 4 d ~~9.2~~ 9.37

Plate B 11584

8.13 ~~7.7~~ a 2 v ~~7.9 8.0 = 7.95~~ 8.33 8.31 = 8.32 01 01
8.31 ~~8.0~~ v 4 b ~~8.4~~ 8.71

Plate B 5202 Op.

8.71 ~~8.4~~ b = .3 9.01
v n.s. ~~< 8.7~~

Plate B 4962

8.13 ~~8.4~~ a = .1 8.03
v = .1 ~~= 8.4~~
b n.s. ?

Plate B 3519

8.13 8.73 8.71 8.69 = 8.71 02 00 02
~~9.7~~ a 6 v ~~8.5 8.3 8.4 8.3 = 8.37~~
8.71 ~~8.4~~ v 2 b ~~8.4~~ 8.71
Image of b defective
8.69 ~~8.3~~ v 5 c ~~8.8~~ 9.19

Plate B 3520

var on edge of plate
8.71 ~~8.4~~ b 1 v ~~8.5 8.4 = 8.45~~ 8.81 8.79 = 8.80 01 01
8.79 ~~8.4~~ v 4 c ~~8.8~~ 9.19

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1894phae.proj..806F

October 21 1895

Meas. of new var in ~~Hydra~~ Centaurus (Cont)

Plate B 3623

var on each of plate

8.71 ~~8.4~~ b 3 r ~~8.7 8.7 = 8.70~~ 9.01 9.09 = 9.05 04 04

9.09 ~~8.7~~ r 1 c ~~8.8~~ 9.19

Plate B 3919

8.13 ~~7.7~~ a 4 r ~~8.1 8.1 = 8.10~~ 8.53 8.41 = 8.47 06 06

8.41 ~~8.1~~ r 3 b ~~8.4~~ 8.71

Plate B 3646 Sp.

8.13 ~~7.7~~ a = .1

r ns. ~~7.8~~ 8.23

Plate B 3693 Sp.

8.13 ~~7.7~~ a = .1

r = .1 = ~~7.7~~ 8.03

b ns.

Plate B 5372

8.13 ~~7.7~~ a 5 r ~~8.1 8.2 = 8.20~~ 8.63 8.51 = 8.57 06 06

8.51 ~~8.2~~ r 2 b ~~8.4~~ 8.71

Plate B 5485

8.51 ~~8.2~~ r 2 b ~~8.4~~ 8.71 ~~8.7~~ 8.51 R =

a not impl.

Plate B 3398

8.71 ~~8.4~~ b 4 r ~~8.8 8.7 = 8.75~~ 9.11 9.09 = 9.10

9.09 ~~8.7~~ r 1 c ~~8.8~~ 9.19 01 01

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October 21, 1895

Diam of new var. in ~~Hyades~~ Pegasus (Cont)

Plate B 9536

8.13 ~~7.7~~ a 4 v ~~8.1 8.1 = 8.10~~ 8.53 8.41 = 8.47 06 06

8.41 ~~8.1~~ v 3 b ~~8.4~~ 8.71

a	6.2	7.7
b	6.9	8.4
c	7.3	8.8
d	7.7	9.2
e	8.1	9.6
7.57 f	8.3	9.8
9.1 g	8.7	10.2
7.6 h	9.1	10.6
1.5 var	6.7	~~8.2 8.2 = 8.20~~ 8.63 8.51 = 8.57 06 06

Plate B 5326

8.13 ~~7.7~~ a 5 v ~~8.2 8.2 = 8.20~~ 8.63 8.51 = 8.57 06 06

8.51 ~~8.2~~ v 2 b ~~8.4~~ 8.71

Plate B 6422

8.13 ~~7.7~~ a 3 v ~~8.0 8.0 = 8.00~~ 8.43 8.31 = 8.37 06 06

8.31 ~~8.0~~ v 4 b ~~8.4~~ 8.71

Plate B 9507

8.13 ~~7.7~~ a 3 v ~~8.0 8.0 = 8.00~~ 8.43 8.31 = 8.37 06 06

8.31 ~~8.0~~ v 4 b ~~8.4~~ 8.71

Plate B 7467

8.13 ~~7.7~~ a 1 b ~~7.8 7.7 = 7.75~~ 8.23 8.01 = 8.12 11 11

8.01 ~~7.7~~ v 1 b ~~8.4~~ 8.71

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October 21, 1895.

Meas. of new var in ~~Hydra~~ Centaurus

Plate B 7466

8.13 ~~7.7~~ a 1 r ~~7.8 7.8 = 7.80~~ 8.23 8.11 = 8.17 06 06
8.11 ~~7.6~~ r 6 b ~~8.4~~ 8.71

Plate B 11458

8.13 ~~7.7~~ a 2 r ~~7.9 7.9 = 7.90~~ 8.23 8.21 = 8.27 06 06
8.21 ~~7.9~~ r 5 b ~~8.4~~ 8.71

Plate B 9536

8.13 ~~7.7~~ a 4 r ~~8.1 8.2 = 8.15~~ 8.53 8.51 = 8.52 01 01
8.51 ~~8.7~~ r 2 b ~~8.4~~ 8.71

a	6.3	7.7
b	7.0	8.4
c	7.14	8.8
d	7.9	9.3
e	8.1	9.5
f	8.4	9.8
g	8.6	10.0
h	8.9	10.3

7.67

9.1 7.7 1.4

var. 6.8 ~~8.2 8.2 = 8.20~~ 8.63 8.61 = 8.57 06 06

Enl. B. 6061 var. ff.
Enl. B 9536 var. br.
Fr ident as B. 9537

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October 21, 1895.

Exam. of X plates for Confirm. of Professor S. I. Bailey's variable stars in Clusters.

Cl. in Rd. 21h 28m Dec. -1° 19' (N.G.C. 7089 G.C. 4678, M2)

Oct. 21, 1895 | 1 | var. conf | 1.5 magn.
2 | var. conf. | 0.6 magn

Plates examined X 7016, 7028, 7043, 7045, 7048, and 7052.
X 7016 evil 4/4 times

Cl. in Rd 21h 34m Dec. -23° 29' M30 (N.G.C. 7099 G.C. 4687)

1 | var. not conf.
2 | var. conf. | 1.0 magn.
3 | not. conf
4 | var. conf | 0.7 magn.
5 | var. conf | 1.2 magn.

Plates examined X 7049, 7039, 7030, 7046 and 7051
X 7051 evil 4/4 times

Rd 0h 58m Dec. -71° 26' (N.G.C. 362 G.C. 193)

1 | var. conf | 0.6 magn.
2 | var. conf | 0.5 magn
3 | var. conf | 0.5 magn

X plates 7054, 7012 and 7029 examined

4 | not. conf.
5 | var conf ?
6 | var. conf | 0.5 magn.
7 | var. conf ? | 0.5 magn

Other plates expired + 7012 + 7029 evil 4/4 times

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October 21, 1895.

Glass. of X plates for Mr. Bailey's variables (Cont.)

N.G.C. 6656. 4h 32m +11 22.

1 var. conf 0.6 magn.
2 var. conf 0.6 magn
3 not conf.
4 not conf.
5 not conf.
6 var. conf 0.8 magn.
7 var. conf 0.5 magn. from 3 plates.

Plates expos. X 6793, 6855 + 6800

Gul. X 6855 4 1/4 times

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Oct. 22, 1895.

Determination of Scale of enl. of clusters by Prof. S. I. Bailey.

Pots. Free.

a-b	a-c	b-c	
25.7	28.1	15.0	original neg.
145.0	161.8	86.5	

145.0 / 25.4 → 1270 → 1800 → 1778 → 5.71 → 4220

161.8 / 28.1 → 1405 → 2130 → 1967 → 5.76 → 1630

150 / 86.5 → 173 / 3 → 57.7

5.71
5.76
5.77
14

42.4 / 5.75 → 4025 → 2150 → 1725 → 7.38 → 4250

∴ 1 mm = 7.38 on enlargements.

One each plate 15.0 cm by 23.0 cm may be enlarged printed
Hence a scale of Prof Bailey's enlargement 24 cm by 30.8
Same regions 12 cm by 14 cm will go on one copy

17.3 cm	1.32 cm	1.45	81	60	60" / 7.4
7.4	7.4	7.4	7.4	7.4	592 → 8 cm
69 cm	528	580	324	444	
1211	924	1015	567		
1280.2	97.68	1073.0	599"		
10' dia	45"				

Brest circle 1 cm 3 = 81 mm = 10',
" " " " 5 = 60 mm = 7.4

All vanilles within 10' but few within 1' and the smaller clusters where are within 40". Centres not marked.

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h m ° ' Ages

B.D. +49° 2611N 17 13.1 +49 52 7.2 (1855)

Suspected of var. by Prof. E.C. Pickering with Meridian Photometer.

Chart plates 2098 2117 2329 3784 3860 3997 4176 8928 8950 9135 9159 11039 11129 11282 11283 11449 12319 examined & slight if any evidence of variability found.

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