

KG
11365
807

Book 7

KG 11365.807



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October 23, 1895

Mens. of new var. star in Aquila

R.A. $19^h 51.3^m - 8^\circ 16'$ (1855) $19^h 53.7^m - 8^\circ 10'$ (1900) Sp. Md? mB 13416 No. 7106.

Plate I 11189

var 9.5 9.5 9.5 9.5 = 9.50

82 a 6.5 = 80-8° 51' 78 19 50 22.4 - 8° 24.6 8.5

84 b 6.7 = 80-8° 51' 86 19 51 34.4 - 8° 28.7 7.8

87 c 7.0 = 80-8° 51' 75 19 49 38.3 - 8° 28.1 8.8

91 d 7.4 = 80-8° 51' 85 19 51 22.3 - 8° 5.6 9.1

94 e 7.7 = 80-7° 51' 23 19 50 36.0 - 7° 56.7 9.4

7.33 9.6 f 7.9 80-8° 51' 88 19 51 46.4 - 8° 14.8 9.8

9.8 g 8.1 80-8° 51' 83 19 51 10.0 - 8° 4.6 9.4

10.1 h 8.4 8.97

10.5 k 8.8

11.2 l 9.5

11.6 m 9.9

11.9 n 10.2

10.8 # k 5 v 11.3 11.5 11.5 = 11.43

11.5 v o l 11.5

11.5 v 4 m 11.9

Plate B 8377 Sp.

v ns. ? 29.2

9.0 d = 1.2

Plate B 8588 Sp.

9.0 d = 1.2

v ns. 29.2

Comparison stars marked in red in pl. I 11189.

Cat. stars for det. pos. marked in black ink on B13730

October 23, 1895.

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

Plate B 8402 Sp.

9.0 $d = .1$
 r n.s. < 9.1

Plate I 9059

11.8 $R = .4$
 r n.s. < 11.2

Plate I 9081

11.4 $l = .1$
 r n.s. < 11.5

Plate I 9161

10.8 $R = .5$
 r n.s. < 11.3

Plate I 9480

11.4 $l = .1$
 r n.s. < 11.5

Plate I 9510

11.4 l 3 r 11.7 11.8 = 11.75
 11.8 r 1 ra 11.9

October 23, 1895
 Meas. of new var. in Aquila (Cont.)
 Plate B 9897.

12.2 $n = .1$

r ns. $\angle 12.3$

Plate B 9898

10.8 $k = .2$

r ns. $\angle 11.0$

Plate B 10156 Sp.

9.7 $f = 1$

r ns. $\angle 9.8$

Plate B 10170 Sp.

9.0 $d = .2$

r ns. $\angle 9.2$

Plate B 10447

11.9 $m = .3$

r ns. $\angle 12.2$

Plate B 10448

10.8 $k = .3$

r ns. $\angle 11.1$

~~Plate B 9859~~

October 23, 1895-

Meas. of new var. in Aquila (Cmt).
Plate B 9859con. ν_s $\angle 12.3$

a 5.8 8.1

b 6.0 8.3

c 6.2 8.5

d 6.6 8.9

e 7.1 9.4

f 7.4 9.7

g 7.6 9.9

h 8.2 10.5

i 8.7 11.0

l 9.3 11.6

m 9.8 12.1

n 10.0 12.3

$$\begin{array}{r} 9.0 \\ 6.1 \\ \hline 2.3 \end{array}$$

Oct. 24, 1895.

Plate I 11371

10.8 $k = 12$ ν ν_s $\angle 11.0$

Plate A 31391 Sp.

9.4 $e = 12$ ν ν_s $\angle 9.6$

Plate B 11422 Sp.

10.0 $g = 11$ ν ν_s $\angle 10.1$

October 24, 1895.

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

Plate B12021 sp.

10.0 $g = .3$
 r ms. < 10.3

Plate B13510

10.0 $g \ 2 \ r \ 10.2 \ 9.9 = 10.05$
 9.9 $r \ 4 \ h \ 10.3$

Plate B13547

10.0 $g \ 2 \ r \ 10.2 \ 9.9 \ 10.05$
 9.9 $r \ 4 \ h \ 10.3 \leftarrow 10.2$

Plate B13585

10.0 $g \ 2 \ r \ 10.2 \ 9.9 = 10.08$
 9.9 $r \ 4 \ h \ 10.3$

Plate B13670

Too near edge of Plate

Plate I 11793 sp

9.0 $d = .1$
 r ms. < 9.1

Plate I 11651

10.3 $h = .4$
 r ms. < 10.7

October 24, 1895.

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

Plate I 1569

10.8 $k = .4$

r ns. < 11.2

Plate I 1582

10.3 $h = .2$

r ns. < 10.5

Plate I 1751

10.8 $k = .3$

r ns. < 11.1

Plate B 2837 Sp.
very poor.

Plate B 3093

Too near edge of plate

Plate B 3107

10.31 $h 4 r$ $10.71 \overset{56}{10.6} = 10.65^4$

$\overset{56}{10.67} r 2 k$ 10.876

Plate B 9358

11.9 $m = .1$

$r = 1$ 11.9

\overline{m} ns

October 24 1895.
 Meas. of new var. in *Aquila* (Cent.)
 Plate B 3124

10.3 h 5 r 10.8 10.7 = 10.75
 10.7 r 1 k 10.8

Plate I 4042

10.3 h = .3
 r ns. < 10.6

Plate I 4192

10.8 k = .3
 r ns. < 11.1

Plate B 7680

12.2 n = .2
 r ns. < 12.4

a	5.6	8.0
b	5.8	8.2
c	6.1	8.5
d	6.5	8.9
e	7.0	9.4
f	7.4	9.8
g	8.0	10.2
h	8.6	10.4
k	8.6	11.0
l	9.2	11.6
m	9.9	12.3
n	7.	7

6.60
 9.0
 6.6
 2.4

October 24, 1895.

Meas. of new rev. in Aquila (Cont.)

Plate B5761 Af

8.6 $c = .3$

v n.s. < 8.9

Plate B5948

11.4 $l = .2$

v n.s. < 11.6

Plate B5976

10.8 $k = .1$

v n.s. < 10.9

Plate B6178

10.3 $h = .2$

v n.s. < 10.5

Plate B6596

10.3 $h = .4$

v n.s. < 10.7

Plate I 6681

11.4 $l = .3$

v n.s. < 11.7

Plate B6179

10.8 $k = .3$

v n.s. < 11.1

October 24, 1895.

Meas. of new. var. in *Aquila* (Cont.)

Plate B 6215 Sp.

9.0 $d = .2$
or ns. < 9.2

Plate I 6872

11.4 $l = .2$
or ns. < 11.6

Plate I 7001

10.8 $k = .2$
or ns. < 11.0

Plate I 7052

10.8 $k = .3$
or ns. < 11.1

Plate I 7182

11.9 $m = .2$
or ns. < 12.1

Plate B 7362

10.0 $g = .5$
or ns. < 10.5

Plate BI 7164

10.8 $k = .4$
or ns. < 11.2

October 24, 1895.

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

Plate B 7681

11.4 $l = .2$ v m.s. < 11.6

Plate B 8018 Sp

8.6 $C = .1$ v m.s. < 8.7

Plate B 13730

10.0 g 3 v 10.3 10.0 = 10.1510.0 v 3 h 10.3

Plate F 11189

~~10.8~~ var. g 3 11.1 11.2 = 11.15 a 6.5 8.1 b 6.7 8.3 c 7.0 8.6 d 7.3 8.9 e 7.7 9.3 f 8.1 9.7 g 8.3 9.9 h 8.7 10.3 k 9.0 10.6 l 9.5 11.1 m 10.0 11.6 n 10.4 12.210.8 k 3 v 11.1 11.2 = 11.1511.2 v 2 h 11.4Meas pos. B. 13730
encl. "

B 13416 Sp

 a 9.7 10.0 g 1 v 10.1 b K h m.s. c F d F e $st.$ 90
7.4
1.6

October 26
1895

News of new var. star in Kela Centaurus
 COM -41° 6' 87 11 42^m - 41° 3' 6 10^m (1875) p. Mdon B13157
 No. 6889 and B13389 No. 7024. 11 44.1 - 41 12 (1900)

Plate B 9263

var	10.1	124	123	1235	COM	-41° 6' 87	11 42 ^m	-41 3.6	10
a	5.5	77	76			-41° 6822	11 46.6	-41 5.1	78
b	6.5	84	86			-40° 6965	11 43.2	-40 40.1	90
c	7.0	89	91			-40° 6978	11 44.5	-40 55.9	93
d	7.4	93	95			-40° 6956	11 42.2	-40 49.4	94
e	7.8	97	99			-40° 6972	11 44.1	-40 52.4	95
f	8.2	10.1	103			-40° 6962	11 43.3	-40 57.9	99
g	8.6	10.5	107			-40° 6962	11 43.3	-40 57.9	99
h	8.8	10.7	109			-41° 6780	11 42.0	-41 0.9	10
i	9.4	11.3	115						
j	10.0	11.9	121						
k	10.5	12.4	126						
m	12.3	12.5	12.45						
n	12.4	12.5	12.45						
o	12.4	12.5	12.45						

Ident uncertain, Not used in reduction

Plate B13567

var	5.6	8.1	8.2	8.15	k	9.3	11.8
a	5.0	7.5			l	100	12.5
b	6.0	8.5			m	7	7
c	6.5	9.0			n	7.5	8.15
d	7.1	9.6			o	8.15	8.15
e	7.6	10.1			p	8.15	8.15
f	8.0	10.5			q	8.15	8.15
g	8.4	10.9			r	8.15	8.15
h	8.8	11.3			s	8.15	8.15

October 26, 1895.

Meas. of new var. in ^{Centaurus} ~~Vela~~ (Cont).

Plate B13157 Sp

var	Ad
a	A
b	A
c	E
d	F

 $9.1^{03} \text{ c } 2 \text{ v } 9.3^{23}$
 d 4 ft.

Plate B9711

var. 9.5 $11.3 \ 11.2 = 11.25$

a	5.8	7.5
b	6.9	8.6
c	7.4	9.1
d	7.8	9.5
e	8.3	10.0
f	8.6	10.3
g	8.9	10.6
h	9.3	11.0
k	10.0	11.7
l	10.4	12.1
m	10.8?	12.5?

 $11.29 \ 11.23 = 11.26 \ .03 \ .03$

not comparable with scale.

 $11.1^{09} \text{ h } 2 \text{ v } 11.3^{29} \ 11.2^3 = 11.25^6 \ .03 \ .03$
 $11.23 \text{ v } 5 \text{ k } 11.73$

$$\begin{array}{r} 9.2 \\ 7.5 \\ \hline 1.7 \end{array}$$

October 26, 1895.

Meas. of new var. star in ^{Centaurus} ~~Vela~~ (Cont).

Plate B 13389 sp.

7.5^{49} a 7 r $8.2^{19} 8.4^{35} = 8.38^{27}$ sp. Md. $.08$ $.08$
 8.4^{35} r 2 b 8.6^{55}

Plate B 11108

Too poor for comparison

Plate B 5269

9.1^{03} c 1 r $9.2^{13} 9.2^{19} = 9.20^{16}$ $.03$ $.03$
 9.2^{19} r 3 d 9.5^{49}

Plate B 9194

var 10.4 $12.5 - 12.4 = 12.45$

a 5.3 7.5

b 6.4 8.6

c 6.8 9.0

d 7.3 9.5

e 7.9 10.1

f 8.2 10.4

g 8.6 10.8

h 9.1 11.3

i 9.8 12.0

l 10.2 12.4

m 10.7? 12.9

$12.5^{25} 12.3^{45} = 12.40$ $.05$ $.05$
 12.35 r 4 m 12.70

 $12.45 - 12.45 = 12.45$ $.00$ $.00$

9.2
 7.0
 12.2

October 26, 1895.

Meas of new var. star in ^{Centaurus} ~~Vela~~ (Crt.)

Plate B 8027 Sp.

9.5⁴⁹

$d = 1$

v ns.

< 9.659

Plate B 9400 Sp.

9.5⁴⁹

$d = .3$

v ns.

< 9.879

Plate B 9377 Sp.

9.99
10.0

$c = .2$

v ns.

$< 10.2^{19}$

Plate B 7967 Sp.

9.5⁴⁹

$d = .1$

v ns.

$< 9.6^{59}$

Plate B 8030 Sp.

9.5⁴⁹

$d = .1$

v ns.

$< 9.6^{59}$

Plate B 5168 Sp.

8.8⁵⁵

$b = .3$

v ns.

< 8.985

Plate B 10857

11.1⁴⁹

$k 6 v$

11.7⁴⁹

$11.6^3 = 11.65^6$

.03 .03

11.63

$v 1 k$

11.73

October 26, 1895. (Cont)
 Meas. of new var. in ~~Valk~~ Centaurus
 Plate B 11446

9.5^{49} d 1 v 9.8^{59} $9.8^{59} = 9.60^{59}$.00 .00
 100
 9.59 v 4 e 10.0 9.99

Plate B 11445
 9.5^{49} d 2 v 9.7^{49} $9.7^{69} = 9.70^{69}$.00 .00
 9.7^{69} v 3 e 10.0 9.99

Plate B 11176
 var 9.4 11.2 11.1 = 11.15

a 58 75
 b 69 86
 c 74 91
 d 78 95
 e 83 100
 f 86 103
 g 89 106
 h 93 110
 k 100 117
 l 105 122
 m 7 7

11.19 11.13 = 11.16 .03 .03

11.8^{09} h 1 v 11.2^{19} $11.1^3 = 11.15^6$.03 .03
 11.13 v 6 k 11.73

Plate B 13118 sp.
 9.8^{03} c = 1.3
 v ns. 29.4^{33}

92
 7.5
 7.4
 1.9

October 26, 1895.

Meas. of new var. in Vela Cont.

Centaurus

Plate B 3385

7.5^{49} a 1 v 7.6^{59} $7.7^{85} = 7.75^2$.13 .13
 7.8^{85} v 7 b 8.6^{55}

Plate B 3351

a off pl.

8.7^{05} v 5 b 8.8^{55} 8.1^{05}

Plate B 5189

7.5^{49} a 7 v 8.2^{19} 8.4^{35} 8.35^{27} .08 .08
 8.4^{35} v 2 b 8.6^{55}

Plate B 3508

7.5^{49} a 8 v 8.3^{29} $8.4^5 = 8.35^7$.08 .08
 8.4^5 v 1 b 8.6^{55}

Plate B 9712

11.8^{09} h 1 v 11.7^{19} $11.13 = 11.15^6$.03 .03
 11.13 v 6 k 11.73

Plate B 12816

9.99
 10.0 e = .4

v n.s. < 10.439 Plate very poor.

Plate B 4837

October 26, 1895.
 Meas. of new var. in Vela (Cont)
Centaurus

Plate B4837

⁴⁹7.5 a 7 r ¹⁹8.2 ²⁵8.3 = ²8.25 .03 .03
²⁵8.3 r 3 b 8.655

Plate B5300

⁶⁵8.6 b 5 r ⁰⁵9.1 ⁰³9.1 ^{8.99}9.0 = ²9.07 .03 .01 .03
⁰³9.1 r 0 c 9.103
^{8.99}9.0 r 5 d 9.549

Plate B9714

Too near edge of plate

Plate B9262

^{11.73}k = 2
 r ns. < 11.93

Enl. B 11176 var. ft.

Enl. B 13567 var. br.

For ident B. 9263

Oct. 28, 1895.

B5168 Sp. Second meas.

^{86.55}86 b = .3
 r ns.
 c ns. < 8.9 ⁸⁵

October 28

Meas. of new nov. star in Cassiopeia 11 30-68 16 (1875)

Sp. ~~Ad. on Pl. B 13207~~ No. 6510.

Spectrum nearly identical with Nova Numae but much fainter

nova. ns. $\angle 14.2$
 3.0
 3.1

6.95 a	3.1	3.475	270	11 36-60 51	8
7.45 b	3.6	3.980	112	11 15-61 11	8
7.79 c	4.0	4.384	243	11 33-60 57	8½
8.86 d	4.544	4.788	21	11 03-61 10	9
9.13 e		5.293	160	11 22-61 18	8¼
4.52 f		5.697	153	11 21-61 22	10
8.6 4.5 4.1 9.76 g		6.010			8.62
double h		6.410	5		
10.64 k		6.610	7		
10.86 l		6.810	9		
11.14 m		7.211	3		
11.36 n		7.511	6		
11.82 o		7.912	0		
12.36 p		8.412	5		
12.82 q		8.913	0		
13.11 r		9.213	3		
s 13.33		9.513	6		
t 13.64		9.914	0		
u 13.99		9.914	5		
pro. comp. 6		5.697			



Plate B. 12813

re-reduced by M. D. A. Apr. 8, 1920. using magnitudes from Series plate.

nova ns. $\angle 11.5$ $\angle 11.6$

Plate B 5251

12.8 12.79 $\angle = .1$ nova ns. $\angle 12.8$ $\angle 12.9$

October 28, 1895. (Cont.)
 Meas. of Nova Carinae

Plate B 9472

~~13.3~~
 13.3

$$\frac{s}{r} = .3$$

nova n.s. $\angle 13.6$ $\angle 13.6$

Plate B 9293

13.1
 13.0

$$\frac{s}{r} = .2$$

nova n.s. $\angle 13.2$ $\angle 13.3$

Plate B 10836

12.4
 12.3

$$\frac{s}{r} = .2$$

nova n.s. $\angle 12.5$ $\angle 12.6$

Plate B 10752

12.8
 12.7

$$\frac{s}{r} = .1$$

nova n.s. $\angle 12.8$ $\angle 12.9$

Plate B 11152

12.8
 12.7

$$\frac{s}{r} = .2$$

nova n.s. $\angle 12.9$ $\angle 13.0$

Plate B 11087

11.8
 11.7

$$\frac{s}{r} = .2$$

nova n.s. $\angle 11.9$ $\angle 12.0$

Plate B 3594 3559

13.3

$$\frac{s}{r} = .3$$

nova n.s. $\angle 13.6$

October 28, 1895

Meas. of Nova Carinae (Cont.)

Plate B 11086

$$\frac{11.1}{11.1} \text{ mag} = 1.3$$

Nova N.S. < 11.4 < 11.4

Plate B 10924

nova N.S. < 14.0

a	4.5-4.8	7.1	7.4
b	5.2	7.5	7.8
c	5.6	7.9	8.2
d	6.2	8.5	8.8
e	6.7	9.0	9.3
f	7.3	9.6	9.9
g	7.6	9.9	10.2
h	8.8	10.1	11.4
x i	8.4	10.7	11.0
x l	8.6	10.8	11.2
x m	8.9	11.2	11.5
x n	9.0	11.3	11.6
x o	9.4	11.7	12.0
x p	9.9	12.2	12.5
x q	10.3	12.6	12.9
x r	10.4	13.0	13.3
x s	10.3	13.3	13.6
x t	10.4	13.7	14.0
x u	10.5	7	7

p.e. 6 7.7 10.3

October 28 1895. (Cont.)
 Meas. of Nova Carinae

Plate B 11302

13.3 $\frac{s}{t} = .3$

nova n.s. < 13.6

Plate B 10807

12.7 $\frac{s}{t} = .2$

Nova n.s. < 12.9

Plate B 11294

13.0 $\frac{s}{t} = .3$

nova n.s. < 13.3

Plate B 3315-

11.7 $\frac{s}{t} = .2$

Nova n.s. < 11.9

Plate B 9191

13.3 $\frac{s}{t} = .2$

Nova n.s. < 13.5

Plate B 4748

10.1 $\frac{s}{t} = .4$

Nova n.s. < 10.5

Plate B 5134

13.8 $\frac{s}{t} = .1$

Nova n.s. < 13.9

October 28, 1895.
Meas. of Nova Carinae (Cont.)

Plate B 9294

Nova Δ MS, $\angle 13.8$

a 5.0 7.5

b 5.5 8.0

c 5.9 8.4

d 6.3 8.8

e 6.9 9.4

f 7.2 9.7

g 7.5 10.0

h 8.1 10.6

~~h~~ 7.8 10.3

~~h~~ 8.1 10.6

~~h~~ 8.3 10.8

~~h~~ 8.5 11.0

~~h~~ 8.9 11.4

~~h~~ 9.5 12.0

~~h~~ 10.0 12.5

~~h~~ 10.3 12.8

~~h~~ 10.6 13.1

~~h~~ 10.9 13.4

~~h~~ 11.2 13.7

~~h~~ 11.5 14.0

~~h~~ 11.8 14.3

~~h~~ 12.1 14.6

~~h~~ 12.4 14.9

~~h~~ 12.7 15.2

~~h~~ 13.0 15.5

~~h~~ 13.3 15.8

~~h~~ 13.6 16.1

~~h~~ 13.9 16.4

~~h~~ 14.2 16.7

~~h~~ 14.5 17.0

~~h~~ 14.8 17.3

Plate B 7959

13.1 Δ
13.0 Δ

Nova MS, $\angle 13.3$ $\angle 13.4$

Plate B 7584

11.4 Δ
11.3 Δ

Nova MS, $\angle 11.6$ $\angle 11.7$

October 28, 1895 (Cont).
 Meas. of Nova Carinae

Plate B 5219

11.8
11.7

$$\frac{0}{\Delta} = .2$$

Nova n.s. < 11.9 < 12.0

Plate B 7520

11.8
11.7

$$\frac{0}{\Delta} = .5$$

Nova n.s. < 12.2 < 12.3

Plate B 7107

8.6
8.8

$$d = .4$$

plate very poor

Nova n.s. < 9.2 < 9.0

Plate B 7264

12.4
12.3

$$\frac{0}{\Delta} = .2$$

Nova n.s. < 12.5 < 12.6

Plate B 7526 sp.

10.9
10.8

$$\frac{0}{\Delta} = .2$$

Nova n.s. < 11.0 < 11.1

Plate B 7530 sp.

10.9
10.8

$$\frac{0}{\Delta} = .1$$

Nova n.s. < 10.9 < 11.0

Plate B 11037 sp.

8.6
8.8

$$d = .3$$

very poor plate

Nova n.s. < 9.1 < 8.9

October 28, 1895
Meas. of Nova Carinae (Cont).

Plate B 8947 ϕ very poor pl.
9.1
9.4 $e = 1.2$
Nova NS, $\angle 9.6 \angle 9.3$

Plate B 8948 ϕ very poor pl.
7.4
7.9 $b = 3$
Nova NS, $\angle 8.2 \angle 7.7$

Plate B 10806
8.6
8.8 $d = 1.2$
Nova NS, $\angle 9.0 \angle 8.8$

Plate B 11141
Nova \neq NS. $\angle 13.8$

a 5.3 7.4
b 5.8 7.9
c 6.2 8.3
d 6.8 8.9
e 7.4 9.5
f 7.7 9.8
g 7.9 10.0
h 8.7 10.8
i 8.4 10.5
k 8.5 10.6
l 8.7 10.8
m 8.9 11.0
n 9.3 11.4
o 9.9 12.0
p 10.3 12.4
q 10.5 12.6

s r s
x 9.3 12.9
y 9.8 13.3
z too ft. 7.
p.6 7.8 9.9

October 28, 1895.
Meas. of Nova Carinae (Cont.)

Plate B 5871 Sp.

7.9 $b = 1.3$

Mra N.S. < 8.2

Plate B 9454 Sp.

10.1 $q = 1.2$

Mra N.S. < 10.3

Plate B 9097 Sp.

9.4 $q = 1.2$

Mra N.S. < 9.6

Plate B 9013 Sp.

8.3 $c = 1.3$

Mra N.S. < 8.6

Plate B 9115 Sp.

9.4 $c = 1.4$

Mra N.S. < 9.8

Plate B. 9037 Sp

8.8 $d = 1.5$

Mra N.S. < 9.3

Plate B 8269 Sp

Too poor. On edge of pl.

October 28, 1895
 Meas. of Nova Carinae (Cont.)

Plate B 8275 Sp.

8.8 $d = .4$

Nova N.S. $\angle 9.2$

Plate B 7713 Sp.

8.8 $d = .3$

Nova N.S. $\angle 9.1$

Plate B 3566 Sp.

8.8 $d = .4$

Nova N.S. $\angle 9.2$

Plate B 4825 Sp.

8.8 $d = .3$

Nova N.S. $\angle 9.1$

Plate B 7140

10.6

$h' = .5$ $\angle 11.1$

$h = .3$

Nova N.S.

Plate B 90917

9.4 $c = .3$

Nova N.S. $\angle 9.7$

Plate B 7951

13.3

$h = .3$

Nova N.S. $\angle 13.6$

October 28, 1895.
 Meas. of Nova Carinae (Cont.)
 Plate B 7951

13.3

 $k = 1.2$ Nova MS, $\angle 13.5$ 10.9
10.8

Plate B 9431 Sp.

 $k = 1.4$ Nova MS, $\angle 11.2$ $\angle 11.3$ 11.1
11.1

Plate B 7748 Sp.

 $k = 1.2$ Nova MS, $\angle 11.3$ $\angle 11.3$ 10.26
10.1
10.5
10.3

Plate B 13479

9 5 Nova

Nova 3 $k = 1.037$
10.6Nova 4 k $10.6 \ 10.3 = 10.45$ 10.3

Plate B 13199

Nova

7.1 9.7 9.6 = 9.65 ✓

a 4.5 = 4.8 7.4

b 5.3 7.9

c 5.7 8.3

d 6.2 8.8

e 6.8 9.4

f 7.3 9.9

g 7.6 10.2

h 8.2 10.8

i 8.0 10.6

j 8.3 10.9

k 8.5 11.1

m 8.8 11.4

n 9.2 11.8

o 9.7 12.3

p 10.2 12.8

q 10.5 13.1

r 10.8 13.4

s 11.1 13.8

t 11.4 14.2

u 11.7 14.6

v 12.0 15.0

w 12.3 15.4

x 12.6 15.8

y 12.9 16.2

z 13.2 16.6

9.4 e 3 Nova 9.7 9.6 = 9.65 ✓
 9.6 Nova 2 f 9.8
 p.c. to b. 7.6 10.2

October 28, 1895
Meas. of Nova Carinae Ent.

Plate B, 13183

^{8.56}
8.8 d 4 Nova $9.2-9.3 = 9.25$ 8.96 9.0
9.3 Nova 1 $e^{9.13}$ 9.4 9.03

Plate B 13861

^{11.14 mag}
11.1 ϵ 1 nova 11.2 11.2 = 11.20 11.24 11.2
11.2 Nova 1 $\epsilon^{11.36}$ 11.3 11.26

Plate B 5001

^{11.82}
11.7 $\epsilon = .3$
Nova N.S. $\angle 12.0$ $\angle 12.1$

Plate B 7640 Sp.
very poor plate useless

Plate B 9420

^{14.2}
14.2 $\epsilon = .3$
Nova N.S. $\angle 14.5$

Plate B 7475 Sp

9.4 $e = 3$
Nova N.S. $\angle 9.7$

Plate B 10482

^{13.1}
13.0 $\epsilon = .2$
Nova N.S. $\angle 13.2$ $\angle 13.3$

October 28, 1895.
Meas. of Nova Carinae (Cont.)

12.4
12.3 ρ
Plate B 9291
 $\delta = .3$

Nova N.S., $\angle 12.6$ $\angle 12.7$

11.8
11.7 ρ
Plate B 3601
 $\delta = .3$

Nova N.S., $\angle 12.0$ $\angle 12.1$

+49.8
10.1 ρ
Plate B 12793 Ray from plate
 $\delta = .6$
Nova N.S. $\angle 10.7$ $\angle 10.4$

8.8
Plate B 11262 Sp.
 $\delta = .2$
Nova N.S., $\angle 9.0$

11.1
11.1 ρ
Plate B 12538
 $\delta = .6$ region of mtn not covered
Nova N.S., $\angle 11.7$ $\angle 11.7$

12.4
12.3 ρ
Plate B 5071
 $\delta = .4$
Nova N.S., $\angle 12.7$ $\angle 12.8$

12.4
12.3 ρ
Plate B 5061
 $\delta = .3$
Nova N.S., $\angle 12.6$ $\angle 12.7$

October 28, 1895.
Meas. of Nova Carinae (Cont).

Plate B13027 sp

8.8 d 1 Nova 8.9 9.1 = 9.00

9.1 Nova 3 e 9.4

a cl A

b A

c A 5 F

d A

e H?

f G?

g G?

bright hydrogen lines accompanied
by dark bands of shorter wavelength
additional dark bands slightly
bright on edge of greater wavelength
Similar to Nova Pamae on
plate B 9767.

Plate B1283x

11.4
11.3 $\frac{u}{x} = .1$

Nova ns, $\angle 11.4 \quad \angle 11.5$

Plate B12743

14.2 $\frac{u}{x} = .1$

nova ns, $\angle 14.3$

Plate B13772 sp.

9.4 e 5 Nova 9.9 9.8 = 9.85

9.8 nova of 9.8

Spectrum has changed -
add. br lines appear
dark bands & continuous
spectrum almost invisible

Plate B13521

9.76

10.1 g 6 Nova 10.7 10.5 = 10.60

10.5 Nova 1 $\frac{k}{x}$ 10.6

10.86 10.5

10.57

October 28, 1895
 Meas. of Nova Carinae (Cont).

Plate B 12940
 6.95
 7.4 a 7 Nova $8.1 \ 8.1 = 8.10$ 7.65 7.6
 8.1 Nova 2 c 7.79
 8.3 7.59

Plate B 12941
 7.45
 7.9 b 1 Nova $8.0 \ 8.2 = 8.10$ 7.55 7.6
 8.2 Nova 1 c 7.79
 8.3 7.69

Plate B 13018
 7.45
 7.9 b 3 Nova $8.2 \ 8.2 = 8.20$ too near edge of plate 7.75 7.7
 8.2 Nova 1 c 7.79
 8.3 7.69

Plate B 12988
 7.79
 8.3 c 4 Nova $8.7 \ 8.8 \ 8.9 = 8.80$ 8.19 8.5
 8.8 Nova 0 d 8.56
 8.8 8.56
 8.9 Nova 5 c 8.13
 9.4 8.63

Position meas. on B 12988.
 Conf. B 9479
 Conf. marked on B 9479.

October 31, 1895
 Meas. of Nova Carinae
 Plate B 11317 Plate 7531 sp.
 14.2 $\frac{u}{f} = .4$ 9.4 $e = .3$
 Nova ns. < 14.6 Nova ns. < 9.7

October ³¹~~30~~, 1895

Meas. of new var. star in Scorpions.

Sp. Md on pl. B 13766 No. 7342. R.A. ^h17 ^m6.6 Dec. -33° 16' (1875).

Plate B 3728

var.	9.4	1351	135 ⁴⁴	= 135 ⁴⁸	.03	.04
a	3.8	4.18 ^{7.7}	11874	17 5 5.1	-33 25	8.5
b	4.4	4.7 ^{8.8}	11853	17 5 59.7	-33 39	8.9
c	-	5.0 ^{9.1}	11865	17 6 32.9	-33 15.7	8.9
d	-	5.4 ^{9.5}	11848	17 5 44.1	-33 14.4	9.4
e	-	5.9 ^{10.0}	11854	17 6 02	-33 21.3	9.7
f	-	6.5 ^{10.6}	11857	17 6 10.1	-33 25.1	9.9
g	-	7.1 ^{11.2}	11869	17 6 51.4	-33 8.2	10.
h	-	7.6 ^{11.7}	11861	17 6 25.4	-33 10.3	9.9
k	-	7.8	11.9			<u>9.40</u>
l	-	8.2	12.3			
m	-	8.6	12.7			
n	-	9.0	13.1			
o	-	9.5	13.6			
p	-	9.9	14.0			

13.11 n 4 v 13.51 13.5⁴⁴ = 13.5⁴⁸ .03 .04
 13.5⁴⁴ v 1 0 13.654

Plate B 13766 Sp

a	Sp A		
b	A	9.55 d 1 v	9.65 9.8 ⁷⁷ = 9.70 ⁷⁷ .06 .06
c	A	9.8 ⁷⁷ v 3 e	10.007
d	A		
e	A		
f	A		
star	Md		

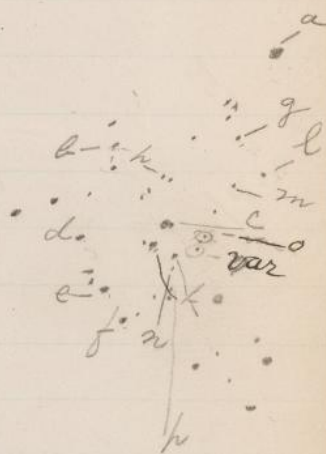


Plate 13532
 Meas. pos.

October 31, 1895.
Meas. of new var. in Scorpins (Cont.)

Plate B13532

var. 58 $9.1^{35} 9.3^5 = 9.35$.00 .00

Images very poor
 9.1
 5.6
 3.5

a	43.46	8.1
b	- 5.0	8.5
c	5.5	9.0
d	6.0	9.5
e	6.7	10.2
f	<u>7.5</u>	11.0
g	8.1	11.6
h	8.5	12.0
k	8.8	12.3
l	9.1	12.6
m	9.6	13.1
n	9.9	13.4
o	7	7
p	7	7

9.1^{35} c 4 r $9.5^{45} 9.4^5 = 9.45$.00 .00
94⁵ r i d 9.5^5

Plate B 5476

9.1
 6.0
 3.1

var.	<u>9.6</u>	12.8 ⁷⁹	12.7 ¹ = 12.75	.04 .04	h 8.3	11.4
a	5.0	8.1			k 8.7	11.8
b	5.4	8.5			l 9.0	12.1
c	5.9	9.0			m 9.5	12.6
d	6.5	9.6			n 10.0	13.1
e	7.0	10.1			o 10.4	13.5
f	<u>7.6</u>	10.7			p 7	7
g	7.9	11.0				

12.7^{69} m 2 r $12.8^{89} 12.8^1 = 12.85$.04 .04
12.8¹ r 3 n 13.1¹

October 31, 1895.

Meas. of new var in Scorpis (Cont)

Plate B5658

var.	ns.	$\angle 13.11$
a	5.4	8.1
b	5.9	8.6
c	6.4	9.1
d	6.9	9.6
e	7.4	10.1
f	7.9	10.6
g	8.4	11.1
h	8.8	11.5
k	9.2	11.9
l	9.4	12.1
m	9.8	12.5
n	10.3	13.0
o	7	7
p	7	7

 $n \approx 3$ var ns. $\angle 13.41$

Plate B9597 sp

 $10.8^{07} c = 1.2$ var ns. $\angle 10.3^{27}$

Plate B13405 sp.

9.55 d \approx v 9.75 9.77 9.80 $.01$ $.01$
 9.77 v 3 e 10.1^{07}

sp. Md. very ft. $H\gamma = 1.0$, $H\delta = 1.0$

October 31, 1895.
 Meas. of new var. in Scorpions (Cont)

Plate B 5953

11.2¹⁵ g 5 r 11.7⁶⁵ 11.8⁶⁷ 11.5³ = 11.6⁵⁸ .07 .01 .05
 11.6⁵⁷ r o h 11.6⁵⁷
 11.5³ h 4 k 11.9³

Plate B 9762 Sp.

10.8⁰⁷ e = .4
 r ms. < 10.5⁴⁷

Plate B 13142 Sp.

9.5⁵ d = .1
 r ms. < 9.6⁵

Plate B 9663

11.2¹⁵ g 4 r 11.6⁵⁵ 11.5⁴⁷ = 11.5⁵ .04 .04
 11.5⁴⁷ r 1 h 11.6⁵⁷

Plate B 9761 Sp.

9.8⁰⁵ c = .1
 r ms. < 9.7¹⁵

Plate B 9558 Sp.

10.8⁰⁷ e = .4
 r ms. < 10.5⁴⁷

Plate B 9596 Sp.

9.8⁰⁵ c = .3
 r ms. < 9.4⁸⁵

October 3, 1895.
Meas. of new var. in Scorpions (Cont).

Plate B13993

9.55 d 5 v 10.05 10.1^{07} $10.2^{17} = 10.10$.05 .03 .07
 10.1^{07} v 0 e 10.1^{07}
 10.2^{17} v 5 f 10.1^{67}

Plate B14291

10.1^{07} e 4 v 10.5^{47} 10.7^{67} $10.8^{75} = 10.6^{73}$.16 .04 .12
 10.1^{67} v 0 f 10.1^{67}
 10.8^{75} v 4 g 11.2^{15}

Plate B14290

10.1^{07} e 5 v 10.6^{57} $10.6^{57} = 10.6^{57}$.00 .00
 10.6^{57} v 1 f 10.1^{67}

Plate B13864

9.55 d 4 v 9.95 $9.9^{87} = 9.9^{87}$.04 .04
 9.9^{87} v 2 e 10.1^{07}

Plate B13865

9.55 d 3 v 9.85 $9.8^{87} = 9.8^{87}$.01 .01
 9.9^{87} v 2 e 10.1^{07}

Plate B13866

9.55 d 4 v 9.95 $9.9^{87} = 9.9^{87}$.04 .04
 9.9^{87} v 2 e 10.1^{07}

Plate B13867

9.55 d 3 v 9.85 $9.8^{77} = 9.8^{77}$.04 .04
 9.8^{77} v 3 e 10.1^{07}

October 31, 1895.
Meas. of new rev. in Scorpius (Cont)

Plate B 13490

9.1⁰⁵ C 3 v 9.4³⁵ 9.4⁵ = 9.40 .05 .05
9.4⁵ v 1 d 9.5

Plate B 13491

9.1⁰⁵ C 4 v 9.4⁴⁵ 9.5⁵ 9.6⁵⁷ = 9.53² .07 .03 .05
9.55 v 0 d 9.5
9.6⁵⁷ v 5 l 10.107

Plate B 12918

13.11 n = 1.2
v = .1 ? < 13.3² 1

Plate B 12917

13.11 n = 1.3
v = .2 < 13.4² 1

Plate B 13988

10.1⁰⁷ C 2 v 10.3²⁷ 10.3²⁷ = 10.30 .00 .00
10.3²⁷ v 4 f 10.7⁶⁷

Plate B 5337 [5337]

11.93 K 3 v 12.2³ 12.2¹⁵ = 12.20¹⁹ .04 .04
12.2¹⁰ v 1 l 12.3²⁵

Plate B 5418

11.93 K 3 v 12.2³ 12.2⁵ = 12.20¹⁹ .04 .04
12.2¹⁵ v 1 l 12.3²⁵

October 31, 1895.
Meas. of new var. in Scorpions (Cont).

Plate B11900

12.4^{25} $\ell = 2$ v 12.3^{45} $12.4^{39} = 12.4^{2}$ $.03$ $.03$
 12.4^{39} $v = 3$ m 12.7^{69}

Plate B12000

10.7^{67} $f = .2$
 v $ns.$ $< 10.9^{87}$

on edge. very poor plate

Plate B3807

13.11 $n = 1.3$
 var $ns.?$ < 13.41

Plate B5988

11.2^{15} $g = 3$ v 11.3^{45} $11.5^{47} = 11.5^{46}$ $.01$ $.01$ very poor plate. On edge
 11.5^{47} $v = 1$ h 11.6^{57}

Plate B11300 Sp.

10.1^{07} $e = .2$
 v $ns.$ $< 10.3^{27}$

Plate B12046 Sp

10.4^{07} $e = 1.3$
 v $ns.$ $< 10.4^{37}$

Plate B ~~13317~~ 13313 OK.

10.7^{07} $e = 3$ v 10.4^{37} $10.4^{37} = 10.4^{37}$ $.00$ $.00$
 10.4^{37} $v = 3$ f 10.7^{67}

October 31, 1895.
Meas. of new var. in Scorpions (Cont.)

Plate B14152

$10.8^{07} e 3 v$ $10.4^{27} 10.5^{47} = 10.45^2$.05 .05

$10.5^{47} v 2 f$ 10.7^{67}

Op. Md very fl. $H_f = 1.0$; $H_d = 1.1$

Plate B13311

$10.8^{07} e 2 v$ $10.3^{27} 10.3^{27} = 10.3^{27}$.00 .00

$10.3^{27} v 4 f$ 10.7^{67}

Plate B5153

$10.8^{07} e = .2$

v ns. $< 10.3^{27}$

very poor plate

Plate B7899

$11.2^{15} g 3 v$ $11.5^{45} 11.4^{37} = 11.45^2$.04 .04

$11.4^{37} v 2 h$ 11.6^{57}

Plate B5154

$9.55 d = .3$

var ns. < 9.85

Plate B13312

$10.8^{07} e 2 v$ $10.3^{27} 10.3^{27} = 10.3^{27}$.00 .00

$10.3^{27} v 4 f$ 10.7^{67}

Plate B8711

$12.3^{25} l = .1$

v ns. $< 12.4^{35}$

October 31 1895.
Meas. of new var. in Scarpins (Cont.)

Plate B 9164

$11.2^{15} g 2 v$ $11.4^{35} 11.3^{27} = 11.35'$.04 .04
 $11.3^{27} v 3 h$ 11.6^{57}

Plate B 13501

$9.55 d 1 v$ $9.65^{57} 9.6 = 9.64'$.04 .04
 $9.6^{57} v 5 e$ 10.8^{07}

Plate B 5649

$13.9^{89} \mu = .3$
 $v = .1$ 14.1^9

Plate B 4833

$11.8^{05} \mu v 1 g$ 11.2^{15} $11.8^{05} 10.97^{01} 11.0 = 11.05$.04 .04
 $10.8^{09} v 6 h$ 11.6^{57}

Image of f defective

Plate B 7673

$10.8^{07} e 5 v$ $10.6^{57} 10.6^{57} = 10.60$.00 .00
 $10.6^{57} v 1 f$ 10.7^{67}

Plate B 7672

$10.8^{07} e 5 v$ $10.6^{57} 10.6^{57} = 10.60$.00 .00
 $10.6^{57} v 1 f$ 10.7^{67}

Plate B 3808

$12.7^{69} m = .2$
 $v ns$ $< 12.7^{89}$

October 31, 1895.
 Meas. of new var. in Scorpions (Cont.)

Plate B3665 Sp

9.1⁰⁵

C = .2

v ms. < 9.3²⁵

Plate B. 3406 Sp

9.1⁰⁵

C = .1

v ms. < 9.3¹⁵

Plate B9380

11.2¹⁵

g 1 v

11.3²⁵ 11.7¹⁷ = 11.25¹

.04 .04

11.2¹⁷

r 4 h

11.6⁵⁷

Plate B10058

11.9³

k = .2

v ms. < 12.1³

Plate B8294 Sp

10.1⁰⁷

e = .2

v ms. < 10.3²⁷

Plate B 5487

var

g 2

12.5⁴⁵

12.5⁴⁹

12.50⁴⁷

.02 .02

h 8.1

11.3

a

5.0

8.2

k 8.6

11.8

b

5.5

8.7

l 9.0

12.2

c

5.9

9.1

m 9.4

12.6

d

6.4

9.5

n 9.6

13.0

e

6.8

10.0

o 10.2

13.4

f

7.3

10.5

p 10.5

13.7

g

7.7

10.9

q 12.3

12.6

12.6⁵⁵ 12.6⁵⁹ = 12.60⁵⁷ .02 .02

October 31, 1895
Meas. of new nov. in Scorpions (Cont.)

Plate B 5163

$$9.1 \times^{05} C = .3$$

$$v \text{ n.s. } < 9.4^{35}$$

Plate B 6103

$$10.1 \times^{07} C = .4$$

$$v \text{ n.s. } < 10.8^{47}$$

Plate B.6613 Sp.

$$9.1 \times^{05} C = .1$$

$$v \text{ n.s. } < 9.2^{15}$$

near edge. very poor

Plate B.6743

$$9.1 \times^{05} C = .2$$

$$v \text{ n.s. } < 9.3^{25}$$

Plate B 11076

$$11.6^{57} h = .2$$

$$v \text{ n.s. } < 11.8^{77}$$

Plate B 11035

$$11.9^{30} k \text{ } 2 \text{ } v \quad 12.1^{30} 12.1^{05} = 12.1^{09} \quad .04 \quad .04$$

$$12.1^{05} v \text{ } 2 \text{ } c \quad 12.3^{25}$$

Plate B 11118

$$11.2^{15} g \text{ } 4 \text{ } v \quad 11.6^{15} 11.4^{37} = 11.5^{46} \quad .09 \quad .09$$

$$11.4^{37} v \text{ } 2 \text{ } h \quad 11.6^{57}$$

October 31, 1895.
 Meas. of new var. in Scorpius (Cont.)

Plate B 11283

¹⁵
 11.7 g 2 r 11.4³⁵ 11.4³⁷ = 11.4³⁶ .01 .01
 11.4³⁷ r 2 h 11.6⁵⁷

Plate B 11421

¹⁵
 11.7 g 2 r 11.4³⁵ 11.4³⁷ = 11.4³⁶ .01 .01
 11.4³⁷ r 2 h 11.6⁵⁷

Plate B 11078 sp

⁰⁵
 9.4 c = .2
 r n.s. < 9.3²⁵

Plate B 8398 sp

⁵⁵
 9.5 d = .2
 r n.s. < 9.7⁵

Plate B 9207

¹⁵
 11.2 g 2 r 11.4³⁵ 11.2¹⁷ = 11.3²⁶ .09 .09
 11.2¹⁷ r 4 h 11.6⁵⁷

Plate B 3715

13.11 m = .4
 r = .1 13.4⁴¹

Plate B 5952

¹⁵
 11.2 g 5 r 11.7⁶⁵ 11.5⁵⁷ = 11.6⁵⁸ .07 .01 .05
 11.5⁵⁷ r 0 h 11.6⁵⁷
 11.5³ r 4 k 11.9³

Meas. pos. on B 13532

but B 5649 var. ft.

but B 13867 var. ft.
 for ident see B 3728

November 7 1895

Meas. of new var star in Pegasus.

BD. $+5^{\circ}49'28''$ 21 538 $+5^{\circ}26'$ (1855) 9.1
 sp. Mtd on pl. B 13512 No. 7237.
 21 56.1 $+5^{\circ}39'$ (1901)

Plate B6314

Images from

var. 94 11.9 11.9 = 11.90 11.97 11.91 = 11.94 03 03

a ~~85.2~~ 7.7 BD $+5^{\circ}49'15''$ 21 51 21.6 $+5^{\circ}19'8''$ 80 8.1

b 5.7 8.2 $+5^{\circ}49'24''$ 21 53 18.5 $+5^{\circ}16'8''$ 83 8.1

c 6.3 8.8 $+5^{\circ}49'29''$ 21 53 47.4 $+5^{\circ}8'6''$ 84 8.5

d 6.9 9.4 $+4^{\circ}47'79''$ 21 51 59.6 $+4^{\circ}54'9''$ 90 9.3

e 7.5 10.0 $+5^{\circ}49'20''$ 21 52 58.6 $+5^{\circ}23'6''$ 93 10.0

f 80 10.5 $+5^{\circ}49'30''$ 21 54 1.9 $+5^{\circ}29'2''$ 95 10.5

g 8.6 11.1 9.08

h 9.2 11.7

k 9.8 12.3

l 10.2 12.7

11.77 11.7 h 3 v 12.07 12.11 = 12.09

12.11 12.1 v 2 k 12.0 12.1 = 12.05 02 02

12.3 12.31

Plate I 1378

8.88 ~~8.8~~ c 1 v 5.98 9.03 = 9.00

9.03 9.0 v 4 d 8.9 9.0 = 8.95 02 03

9.4 9.43

Plate I 4282

Images from

var. F. MS,

a 6.1 7.5

b 6.7 8.1

c 7.5 8.9

d 8.0 9.4

e 8.6 10.0

f 9.1 10.5

g 9.7 11.1

h 10.2 11.6

k 7 7

l 7 7

December 7, 1895.

Deas. of new var. in *Pegasus* (Cont.)

Plate I 1681

var 9.8 ~~12.1 12.1 12.10~~ 12.17 12.11 = 12.14 03 03

a 5.3 7.7
b 5.9 8.3
c 6.4 8.8
d 6.9 9.3
e 7.5 9.9
f 8.2 10.6
g 8.8 11.2
h 9.4 11.8
i 10.0 12.4
l 10.4 12.8

61°
9.1
6.1
2.4

11.77 11.7 ~~12.1~~ 12.4 r ~~12.1 12.2 12.15~~ 12.17 12.21 = 12.19 02 02
12.21 12.2 r 1 ~~12.3~~ 12.31

Plate I 4571

12.69 ~~12.7~~ l = 1.2
r = .1 12.8 12.79

Plate I ~~1560~~ 160

12.69 ~~12.7~~ l = .1 12.79
r ns. ~~12.8~~

Plate B 12593

12.31 ~~12.3~~ K = 2
r ns. ~~12.5~~ 12.51

November 7, 1895. (Cont.)
 Meas. of new var. in Pegasus

Plate B12555-

12.69 ~~12.7~~ $e = .2$
 $v = .1$ ~~12.8~~ 12.79

Plate I 7223

12.69 ~~12.7~~ $e = .2$
 $v = .1$ ~~12.8~~ 12.79

Plate I 7300

11.77 ~~11.7~~ $h = .4$
 v n.s. ~~12.1~~ 12.17

Plate I 7380

11.77 ~~11.7~~ h 1 v ~~11.8~~ 11.8 = 11.80 11.87 11.81 = 11.84 0.3 0.3
 11.81 ~~11.8~~ v 5 k 12.3 12.31

Plate I 4097

10.03 ~~10.0~~ $e = .5$ 10.53
 v n.s. ~~10.5~~

Plate I 4410

10.61 ~~10.6~~ $f = .4$
 v n.s. ~~11.0~~ 11.01

Plate I 4595

10.61 ~~10.6~~ $f = .4$ 11.01
 v n.s. ~~11.0~~

November 7, 1895.
Meas. of new var. in Pegasus (Cont.)

Plate I 4459

10.61 ~~10.6~~

$f = 1.3$

r ns, $\angle 10.9$ 10.91

Plate I 4156

11.77 ~~11.7~~

$h = 1.3$

r ns, $\angle 12.0$ 12.07

Plate I 4504

12.69 ~~12.7~~

$l = 1.3$

r ns, $\angle 13.0$ 12.99

Plate I 4432

8.88 ~~8.8~~

$c = 1.4$

r ns, $\angle 9.2$ 9.28

Plate I 4524

12.31 ~~12.3~~

$k = 1.3$

r ns, $\angle 12.6$ 12.61

Plate B 1017K Sp

10.03 ~~10.0~~

$e = 1.1$

r ns, $\angle 10.1$ 10.13

Plate B 10345 Sp

9.43 ~~9.4~~

$d = 1.3$

r ns, $\angle 9.4$ 9.73

November 7, 1895.

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

Plate B 10500

Images very poor. $\overline{ra} \ 7.3 \ 8.0$ ~~$9.5 \ 9.5 = 9.8$~~ $\overline{10.23 \ 10.21 = 10.22}$ ~~$10.2 \ 10.2 = 10.20$~~ $01 \ 01$

a 54 7.6

b 60 8.2

c 66 8.8

d 72 9.4

e 78 10.0

f 84 10.6

g 89 11.1

h 95 11.7

i 100 12.2

l 104 12.6

9.43 - 9.4 $\Delta 6 \ v$ 10.03 - 10.0 $v \ 0 \ f$ 10.11 - 10.1 $v \ 5 \ f$ $\overline{10.03 \ 10.03 \ 10.11 = 11.06}$ ~~$10.0 \ 10.0 \ 10.1 = 10.03$~~ $\overline{03 \ 03 \ 03}$ ~~$10.0 \ 10.03$~~ ~~$10.6 \ 10.61$~~

Plate B 10346 Sp

9.43 - 9.4 $d = 1.2$ $v \ ns. \ \Delta 9.6 \ 9.63$

Plate B 10293

10.03 - 10.0 e 1 v

10.21 - 10.2 v 4 f

 $\overline{10.13 \ 10.21 = 10.17}$ ~~$10.1 \ 10.2 = 10.15$~~ $\overline{04 \ 04}$ ~~$10.6 \ 10.61$~~

Plate B 11215

12.69 - 12.7 $\ell = 1.3$ $v \ ns. \ \Delta 13.0 \ 12.99$

November 7, 1895.
 Meas. of new var. in Pegasus (Cont.)

Plate I 7095
 $l_{12.69} \quad k = .3 \quad 12.7$
 $v \text{ ns,} \quad \angle 13.0 \quad 12.99$

Plate I 7193
 $12.31 \quad 12.3 \quad k = .4 \quad 12$
 $v \text{ ns,} \quad \angle 12.7 \quad 12.71$

Plate B 6346
 $12.31 \quad 12.3 \quad k \text{ } l \text{ } r \quad 12.4 \quad 12.3 = 12.35 \quad 12.41 \quad 12.29 = 12.35$
 $12.29 \quad 12.3 \quad v \text{ } 4 \text{ } l \quad 12.7 \quad 12.69 \quad 06 \quad 06$

Plate B 6599
 $11.19 \quad 11.1 \quad g = .3$
 $v \text{ ns,} \quad \angle 11.4 \quad 11.49$

Plate I 8942
 $11.77 \quad 11.7 \quad h = .4$
 $v \text{ ns,} \quad \angle 12.1 \quad 12.17$

Plate I 9847
 $9.43 \quad 9.4 \quad d \text{ } 6 \text{ } r \quad 10.03 \quad 10.03 \quad 10.11 = 11.08^6$
 $10.03 \quad 10.0 \quad v \text{ } 0 \text{ } e \quad 10.0 \quad 10.03 \quad 10.0 \quad 10.0 \quad 10.1 = 10.03 \quad 05 \quad 05 \quad 03 \quad 03 \quad 05 \quad 05$
 $10.11 \quad 10.1 \quad v \text{ } 5 \text{ } f \quad 10.6 \quad 10.61$

Plate I 11531 Op
 $8.26 \quad 8.2 \quad f = 3 \quad 8.56 \quad 8.5$
 $v \text{ ns,} \quad \angle 8.5$

November 7, 1895
Meas. of new var. in Pegasus (Cont.)

Plate I 7212

12.31 ~~72.3~~

$h = .2$

v ns, $\angle 12.5$ 12.51

Plate I 7291

11.77 ~~71.7~~

$h = .1$

v ns, $\angle 11.8$ 11.87

~~Plate~~ Plate I 7342

11.77 ~~71.7~~

$h = .2$

$v = .1?$ ~~11.8?~~ 11.87

Plate I 6899

12.69 ~~72.7~~

$h = .1$

v ns, $\angle 12.8$ 12.79

Plate I 6926

12.69 ~~72.7~~

$h = .2$

v ns, $\angle 12.9$ 12.89

Plate I 6987

12.31 ~~72.3~~

$h = .1$

v ns, $\angle 12.4$ 12.41

Plate I 6973

12.69 ~~72.7~~

$h = .3$

v ns, $\angle 13.2$ 12.99

November 7, 1895.
Meas. of new var. in Pegasus (Cont.)

Plate B6315

11.77 ~~11.7~~ k 3 v $\frac{12.07}{12.0} \frac{12.11}{12.1} = \frac{12.09}{12.15}$ $\frac{02}{02}$
12.11 ~~12.1~~ v 2 k $\frac{12.31}{12.3}$

Plate B13512

a bl A $\frac{7.68}{7.6}$ a 6 v $\frac{8.28}{8.2} \frac{8.26}{8.2} \frac{8.38}{8.3} = \frac{8.31}{8.23}$ $\frac{03}{03}$ $\frac{05}{05}$ $\frac{07}{07}$
b " 75g $\frac{8.26}{8.2}$ v 0 b $\frac{8.2}{8.26}$
c " 78g $\frac{8.38}{8.3}$ v 5 c $\frac{8.8}{8.88}$
d " 7g
e too faint
var Md $H\beta$ $\underline{0.3}$; $H\gamma$ $\underline{1.0}$; $H\epsilon$ $\underline{0.7}$; $H\eta$ $\underline{0.2}$ (H ϵ main)

Enl B10500 var. b
Enl B 6315 var. ft.
Comp. stars marked on B6314
For ident. with B6314

November 8, 1895
 Meas. of new var. star in *Carinae Centaurus*
~~77~~ 3.C. 11ⁿ 3351 11ⁿ 48.8 - 58° 34' (1875).
 Sp. Md on plate B 13762 No. 7309.

Plate B 9704

var. 10.2 $\frac{12.6}{12.2} \frac{7.6}{12.2} = 12.60$
 $\frac{12.2}{12.2} \frac{12.2}{12.2} = 12.20$

1875 Positions

a	5.5	7.5	3.C. 3548	11	51	48.60	-58° 53'	47.6	8
f	5.9	7.9	3.C. 3561	11	52	3.14	-59	3	31.4 78
c	6.5	8.5	3.C. 3594	11	52	29.90	-58	57	6.9 9
d	7.0	9.0	3.C. 3343	11	48	42.95	-58	30	36.5 9
e	7.5	9.5	3.C. 3431	11	49	49.45	-58	34	31.7 9 $\frac{1}{2}$
f	7.9	9.9	3.C. 3298	11	47	58.27	-58	36	13.2 9
g	8.1	10.1	3.C. 3298	11	47	58.27	-58	36	13.2 9
h	8.5	10.5	3.C. 3447	11	50	13.06	-58	42	46.0 9 $\frac{1}{2}$
k	8.9	10.9							
l	9.4	11.4							
m	9.7	11.7							
n	10.0	12.0							
o	10.4	12.4							
p	10.7	12.7							

Not used in reduction.
 Ident. uncertain.
 Have identified it to date as
 C.P.D. - 58° 39' 28" 49' 13.0 - 58° 43' 9" 75 (1875 pos.)
 L.D.W. April 4 1903

$\frac{12.6}{12.2} \frac{7.6}{12.2} = 12.60$ $\frac{12.2}{12.2} \frac{12.2}{12.2} = 12.20$
 $\frac{12.6}{12.2} \frac{7.6}{12.2} = 12.60$ $\frac{12.2}{12.2} \frac{12.2}{12.2} = 12.20$

Plate B 11141

8.97 d 4 v $9.3 \frac{9.3}{41} = 9.30$ $9.3 \frac{9.4}{41} = 9.35$
 9.3 v 1 c $9.4 \frac{9.4}{41}$

Plate B 13018

12.4 07x 1 v $12.5 \frac{9.5}{91} = 12.50$ $12.9 \frac{12.9}{93} = 12.90$
 12.5 v 3 p $12.8 \frac{12.8}{13.21}$

Image rendered defective
 by scratch passing through

November 8/1895
 Meas. of new var. in ^{Centaurus} ~~Scorpius~~ (Cont).

Plate B8269 sp.
⁸³
⁸⁷ 8.4 C = .2

r ns. < 8.6⁵³

Plate B 8275 sp.
⁸¹ 9.4 e = .3

r ns. < 9.7⁸¹ < 9.8

Plate B5871 sp.
⁸⁷ 8.97 d = .2

r ns. < 9.17

Plate B5-134

11.13 k 3 r ⁸³ 11.4⁵ 11.4⁵ = 11.4⁴ ^{.01 .01} ~~11.1~~ 11.1 = 11.10
 11.45 r 2 xl 11.6⁵

11.13 Plate B5061

⁸³ 10.4 k 4 r ⁵³ 11.4⁵⁵ 11.4⁵⁴ = 11.2⁸ ^{.01 .01} 11.5 11.5 = 11.50
⁸⁵ 11.2 r 1 l 11.3⁶⁵

Plate B9293

⁶⁵ 10.4 k 2 r ⁸⁵ 10.6⁸³ 10.5⁸⁴ = 10.5⁵ ^{.01 .01} 10.8 10.8 = 10.80
⁸³ 10.5 r 3 k ⁸⁸ 10.8^{11.13}

Plate B9294

⁶⁵ 10.4 k 3 r ⁹⁵ 10.7⁹³ 10.6⁹⁴ = 10.6⁵ ^{.01 .01} 10.9 10.9 = 10.90
⁸³ 10.8 r 2 k ⁸⁸ 10.8^{11.13}

November 8, 1895
 Meas. of new var in Centaurus (Cont),

Plate B9191

$$\begin{array}{lcl}
 10.4^{65} & h\ 1\ r & 10.5^{75} 10.4^{73} = 10.45^{74} \quad .01 \ .01 \\
 10.4^{73} & r\ 4\ k & 10.7 \ 10.7 = 10.70 \\
 & & 10.8 \\
 & & 11.13
 \end{array}$$

Plate B9098 Sp broken

Plate B9454 Sp.

a bb A
 b " A
 c " F
 d " A
 e " A
 f " F
 g " A
 10.4^{65} h = 1

$$r\ n.s. ? \quad < 10.5 \quad < 10.6^{75}$$

Plate B11262 Sp

$$8.97\ d = .2$$

$$r\ n.s. \quad < 9.17$$

Plate B11152

$$\begin{array}{lcl}
 8.97\ d\ 5\ r & 9.4^{75} 9.5^{63} = 9.48^{54} & .07 \ .03 \ .09 \\
 9.4^{51} & r\ 0\ e & 9.4 \ 9.5 \ 9.6 = 9.50 \\
 9.5^{63} & r\ 4\ f & 9.9 \ 10.03
 \end{array}$$

November 8, 1895.
 Meas. of new var. in Centaurus (Cont.)

Image very poor.

Plate B13202

var	8.7		11.1	11.0 = 11.05	11.4	11.3 = 11.35
a	3.6	3.9	7.7	7.4		
b	4.0	4.3	7.5	7.8		
c	4.5	4.8	8.0	8.3		
d		5.4	8.6	8.9		
e		6.1	9.3	9.6		
f		6.7	9.9	10.3		
g		7.2		10.7		
h		7.7		11.2		
k		8.4		11.9		
l		9.0		12.5		
m		9.4		12.9		
n		9.8		13.3		
o		10.2		13.7		
p		10.4		13.9		

8.7
 5.20
 5.25
 3.45

Image too poor to get m.
 Deriving magnitudes of comparison stars.

11.43 11.35 = 11.39 .04 .04

11.13 10.8 k 4 r 11.7 11.8 = 11.15 .04 .04
 11.7 45 r 2 l 11.3 65 11.5 11.4 = 11.45

Plate B3358

8.97 d 6 r 9.57 9.4 9.4 = 9.43 .03 .03 .01
 9.451 r 0 e 9.451 9.5 9.5 9.5 = 9.50
 9.463 r 5 f 9.9 10.03

Plate B7276

10.03
 9.9 f 2 v 10.1 9.9 = 10.00 .06 .06
 9.9 r 2 g 10.1 31 10.2 10.1 = 10.15
 10.11

November 8, 1895.
 Meas. of new var. in Centaurus (Cont.)

Plate B 8957

⁶⁵11.3 $h = .1$
 v ns, < 11.4 ⁷⁵ < 11.6

Plate B 10931

⁶⁵10.4 h 2 v ⁸⁵10.6 ⁹³10.6 = 10.60 ⁸⁹10.8 ^{.24}10.9 ^{.04}10.9 = 10.85
⁹³10.6 v 2 k ~~10.8~~ 11.13

Plate B 11142

⁵¹89.7 ⁵³94.4 ⁵⁴94.4 = 94.3 ^{.03}95 ^{.03}95 ^{.01}95 = 95.0
⁵¹94.51 v 0 e ⁵¹94.51
⁵³94.53 v 5 f ⁵³94 10.03

Plate B 8958

^{11.13}10.8 $k = .13$
 v ns, < 11.43 < 11.4

Plate B 12878

⁶⁵10.4 $h = .2$
 v ns, < 10.6 ⁸⁵ < 10.8

Plate B 9633

⁶⁵11.3 $h = .3$
 v ns, < 11.8 ⁹⁵ < 11.9

Plate B 9351

⁶⁵10.4 h 3 v ⁹⁵10.7 ⁹³10.6 = 10.65 ⁹⁴10.9 ^{.01}10.9 ^{.01}10.9 = 10.90
⁹³10.6 v 2 k ~~10.8~~ 11.13

November 8, 1895-
Meas. of new var. in Centaurus (Cont.)

Plate B5279

^{10.03}
7.9 f 3 r ^{83 21 27} ^{.06 .06}
^{10.21} r 1 g ^{10.74 10.2 = 10.10} ^{10.3 10.2 = 10.25}
^{10.831}

Plate B9038 Sp.

^{8.97} d = .1
r ns. < 9.07

Plate B9080 Sp.

^{8.433} c 2 r ^{8.653} ^{8.77 = 8.65} ^{.12 .12}
^{8.77} r 2 d ^{8.97}

Sp Md very ft. $H\beta = 0.5$; $H\gamma = 1.0$; $H\delta = 3.0$

Plate B3378

^{9.451} e 5 r ^{10.01 93 = 97} ^{.04 .04}
^{9.893} r 1 f ^{9.9 9.8 = 9.85} ^{10.0 9.9 = 9.95}
^{10.03}

Plate B4951 Sp.

^{8.97} d = .1
r ns. < 9.07

Plate B4888

^{11.13}
^{10.8} k = 12
r ns. < 11.8³³ < 11.3

Plate B8956 Sp.

^{9.451} e = .2
r ns. < 9.6⁷¹ < 9.7

November 8, 1895.
Meas. of new var. in Centaurus (Cont.)

Plate B 9429

9.4^{51} $e = 12$
 v ns. $< 9.6^{71}$ < 9.7

Plate B 9357

10.4^{65} $h 3 v$ $9.5^{11.03} = 9.9$ $.04 .04$
 $10.7^{10.7} = 10.7$ $10.9^{11.0} = 10.95$
 10.7 $v 1 R$ $10.8^{11.13}$
 11.03

Plate B 9299

10.4^{65} $h 3 v$ $9.5^{11.03} = 10.99$ $.04 .04$
 $10.7^{10.7} = 10.70$ $10.9^{11.0} = 10.95$
 10.7 $v 1 R$ $10.8^{11.13}$
 11.03

Plate B 12904

11.3^{65} $h = 1$
 v ns. $< 11.4^{75}$ < 11.7

Plate B 12905

12.05 $h 7$ $m = 12$
 v ns. $< 11.9^{12.25}$ < 12.2

Plate B 13084 sp.

10.4^{31} $g = 11$
 v ns. $< 10.7^{41}$ < 10.4

a sp A
b A
c A
d A
e A
f A

g very pt

November 8, 1895—
Meas. of new var. in 'Lehtauus (Ant.)

Plate B 13028 sp

10.8³¹

g = .1

r ns. < 10.2⁴¹ < 10.4

Plate B 11341

9.4⁵¹

e 3 v

^{81 82 = 82 .01 .00}
9.7 9.7 = 9.70

9.8 9.8 = 9.80

9.7⁸²

v 2 f

9.9 10.02

Plate B 11340

9.4⁵¹

e 3 v

^{81 83 82 .01 .01}
9.7 9.7 = 9.70

9.8 9.8 = 9.80

9.7⁸³

v 2 f

9.9 10.03

Plate B 11339

9.4⁵¹

e 3 v

^{81 83 82 .01 .01}
9.7 9.7 = 9.70

9.8 9.8 = 9.80

9.7⁸³

v 2 f

9.9 10.03

Plate 11338

9.4⁵¹

e 3 v

^{81 83 82 .01 .01}
9.7 9.7 = 9.70

9.8 9.8 = 9.80

9.7⁸³

v 2 f

9.9 10.03

Plate B 9350

var 8.1 10.6 10.7 = 10.65 10.8 11.0 = 10.90

a

5.0 7.5

b

5.4 7.9

c

6.0 8.5

d

6.5 9.0

e

6.9 9.4

f

7.4 9.9

g 7.6 10.1

h 7.9 10.4

k 8.2 10.7

l 8.7 11.2

m 9.1 11.6

n 9.5 12.0

o 9.9 12.4

p 10.3 12.8

10.85 11.03 = 10.94 10.9.09

85 93 89 .04.04
10.6 10.6 = 10.60 10.8 10.9 = 10.85

10.8 11.13

November 8, 1895.
Meas. of new var. in Centaurus (Cont).

Plate B 13564

Image poor.

var. 6.3

$$9.6 \ 9.5 = 9.55$$

$$9.7 \ 9.6 = 9.65$$

a	3.7	4.0	7.5
b	4.0	4.3	7.8
c	4.6	4.9	8.4
d	5.5		9.0
e	6.1		9.6
f	6.7		10.2
g	6.9		10.4
h	7.2		10.7
k	7.7		11.2
l	8.2		11.7
m	8.7		12.2
n	9.2		12.7
o	9.6		13.1
p	10.0		13.5

5.25

$$\begin{array}{r} 8.7 \\ 5.2 \\ \hline 3.5 \end{array}$$

Image too poor. Repeat on
drawing Meas. of comparison

$$9.71 \ 9.63 = 9.67 \ .04 \ .04$$

9.451 e 2 v
9.673 v 3 f

$$\begin{array}{r} 71 \ 73 \ 72 \\ 9.6 \ 9.6 = 9.68 \\ 9.7 \ 10.03 \end{array}$$

$$.01 \ .01$$

$$9.7 \ 9.8 = 9.70$$

Plate B 3510

10.465 h 3 v
10.893 v 2 k

$$\begin{array}{r} 95 \ 93 \ 94 \ .01 \ .01 \\ 10.7 \ 10.6 = 10.65 \\ 10.8 \ 11.13 \end{array}$$

$$10.9 \ 10.9 = 10.90$$

Plate B 3511

10.465 h 2 v
10.883 v 3 k

$$\begin{array}{r} 85 \ 83 \ 84 \ .01 \ .01 \\ 10.6 \ 10.5 = 10.55 \\ 10.8 \ 11.13 \end{array}$$

$$10.8 \ 10.8 = 10.80$$

November 8, 1895
 Meas. of new row. in 'Centaurus (Cont.)

Plate B 3321

8.97 d 3 v $9.27 \overset{31}{9.2} = 9.28$ $\overset{.02}{.02}$ $9.2 \ 9.3 = 9.25$
 $9.2 \overset{31}{31}$ v 2 e 9.451

Plate B 9356

$10.4 \overset{65}{65}$ h 3 v $10.7 \overset{95}{95} \overset{11.03}{11.03} \overset{99}{99} = 10.70$ $\overset{.04}{.04} \overset{.04}{.04}$ $10.9 \ 11.0 = 10.95$
 10.7 v 1 k $10.8 \ 11.13$
 11.03

Plate B 9298

$10.4 \overset{65}{65}$ h 2 v $10.6 \overset{85}{85} \overset{11.03}{11.03} = 10.94$ $\overset{.09}{.09} \overset{.09}{.09}$ $10.8 \ 11.0 = 10.90$
 10.7 v 1 k $10.8 \ 11.13$
 11.03

Plate B 9703

12.05 m 3 v $12.0 \overset{35}{35} \overset{45}{45} \overset{40}{40} = 12.00$ $\overset{.05}{.05} \overset{.05}{.05}$ $12.3 \ 12.4 = 12.35$
 12.45 v 0 n 12.45
 0 n.s.

Plate B 9485

11.13 k 2 v $11.4 \overset{33}{33} \overset{35}{35} \overset{34}{34} = 11.00$ $\overset{.01}{.01} \overset{.01}{.01}$ $11.3 \ 11.3 = 11.30$
 $11.4 \overset{35}{35}$ v 3 l $11.3 \overset{65}{65}$

Plate B 12990

$12.4 \overset{85}{85}$ v 2 v $12.6 \overset{13.05}{13.05} \overset{13.01}{13.01} \overset{13.03}{13.03} = 12.00$ $\overset{.02}{.02} \overset{.02}{.02}$ $13.0 \ 13.0 = 13.00$
 12.6 v 2 p $12.8 \ 13.21$
 13.01

November 8, 1895. (Cont.)
Meas. of new stars in *Crataurus*

Plate B 13762 Sp

8.97 d z v $9.179 \pm \begin{smallmatrix} .31 \\ .24 \end{smallmatrix} = 9.15 \begin{smallmatrix} .02 \\ .07 \end{smallmatrix}$ 9.1 9.3 = 9.20
9.231 v z e 9.451
a Sp A
b " A
c " A
d " A
e " A
f ~~Sp~~ A
var f M.L. $H\beta = 0.2; H\delta = 1.0; H\gamma = 1.0$

Plate B 9350

var. 8.0 $10.6 \ 10.7 = 10.75$ $10.8 \ 10.8 = 10.80$

a 5.1 7.6
b 5.5 8.0
c 5.9 8.4
d 6.3 8.8
e 6.8 9.3
f 7.3 9.8
g 7.6 10.1
h 7.8 10.3
k 8.3 10.8
l 8.8 11.3
m 9.2 11.7
n 9.6 12.1
o 10.0 12.5
p 10.5 13.0

Enl B W 2990 var ft.
Enl B 9350 var ft.
For comp see B 9704
Image also from B 11152
and 3358 but poor.

$10.85 \ 10.83 = 10.84 \cdot 0.01 \cdot 0.01$

$10.4 \ 10.8 = 10.60$ $10.8 \ 10.9 = 10.85$
 $10.8 \ 11.13$
 $10.8 \ 10.8 = 10.89 \cdot 0.04 \cdot 0.04$

November 11, 1895

Meas. of new var. in ~~Lepus Lupus~~ (Cont.)

Spectrum IV Type on B 13035 No. 6536

In making identification of this object Miss Wells found it to be variable abe, 19416 $14^h 15^m 7^s - 49^{\circ} 24'$ (new).

Plate B 6066

var. 9.8 11.0 11.1 = 11.05

a 7.4 8.5 J.C. 14 1157 14 18 5.86 - 49 11 54.3 8½

b 8.0 9.1 — — — — — — —

c 8.4 9.5 J.C. 14 987 14 15 33.01 - 49 25 59.6 9½

d 8.7 9.8 J.C. 14 877 14 13 41.89 - 49 23 22.0 10

e 9.0 10.1 — — — — — 9.33

f 9.3 10.4 — — — — —

g 9.6 10.7 — — 11.08 11.18 = 11.13 .05 .05

h 10.0 11.1 — — — — —

10.88 9.2 v 11.08 11.08 = 11.08 .00 .00

11.08 9.3 h 11.38

Plate B 9196^r

var 9.3 11.08 10.98 = 10.95 11.03 .05 .05

a 7.1 8.7

b 7.5 9.1

c 7.8 9.4

d 8.1 9.7

e 8.5 10.1

f 8.8 10.4

g 9.1 10.7

h 9.7 11.3

10.88 9.2 v 11.08 10.98 = 10.95 11.03 .05 .05

10.98 9.4 h 11.38

November 11, 1895
 Mean of new. vers. in *Lepidus* (Cont.)

Plate B9538

var 90 90 11.1 11.1 = 11.10

a 7.3 6.3 8.6

b 7.8 6.8 9.1

c 8.2 7.2 9.4

d 8.5 7.5 9.8

e 8.7 8.0 10.3

f 8.9 8.4 10.7

g 8.7 11.0

h 9.2 11.5

11.18 11.18 = 11.18 .00 .00

10.88 g 3 v 11.18 11.18 = 11.18⁸ .00 .00

11.18 v 2 h 11.38

Plate B9669

10.88 g 2 v 11.08 11.08 = 11.08⁸ .00 .00

11.08 v 3 h 11.38

Plate B 9707 7621

10.88 g 4 v 11.28 11.28 = 11.28⁸ .00 .00

11.28 v 1 h 11.38

Plate B9722

10.88 g 1 v 10.98 10.98 = 10.98⁸ .00 .00

10.98 v 4 h 11.38

B 11707 sp.
 very fr. spectrum

November ¹⁴ #1895

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

Plate B11688 sp.

9.4⁵³

c = .13

r = .11

9.6?

9.73

Plate B12864

10.21 e 2 r

10.41/10.36 = 10.35⁸

.03 .02

10.36 r 2 f

10.56

Plate B12859

10.21 e 1 r

10.31/10.36 = 10.34⁴

.03 .02

10.36 r 2 f

10.56

Plate B11239

var. 9.0

10.96/10.88/10.88 = 10.88⁹¹

.05 .03 .03

a 6.6 8.5

b 7.3 9.2

c 7.6 9.5

d 7.9 9.8

e 8.2 10.1

f 8.6 10.5

g 9.0 10.9

h 9.5 11.4

10.56 f 4 r

10.96/10.88/10.78 = 10.84⁷

.09 .01 .09

10.88 r 0 g

10.88

10.78 v 6 h

11.38

November 14, 1895.
Meas. of new var. in Lupus (Cont.)

Plate B13044 Sp.

⁵³9.4 c 3 v ⁸⁸9.7 ⁸³9.8 ⁸¹9.8 = ⁸²9.77 .01 .01 .01
⁸³9.8 v o d ⁸³9.8
⁸¹9.8 v 4 e 10.21

Plate B11203

10.56 f 2 v 10.76 10.68 = 10.65⁷² .04 .04
 10.68 v 2 g 10.88

Plate B10890

10.56 f 1 v 10.66 10.68 = 10.67⁷ .01 .01
 10.68 v 2 g 10.88

Plate B10887

10.56 f 3 v 10.86 10.78 = 10.75⁸² .04 .04
 10.78 v 1 g 10.88

Plate B12944

10.21 e 2 v 10.41 10.36 = 10.35⁸ .03 .02
 10.36 v 2 f 10.56

Plate B3522

On edge of plate
⁸⁸10.88 g 1 v
 h no. * 10.98

Plate B3523

10.88 g 4 v 11.28 11.18 = 11.15²³ .05 .05
 11.18 v 2 h 11.38

November 14, 1895.
 Meas. of new var. in Lupus (Cont.)

Plate B 3703

10.8⁸ g 4 v ²³ 11.2⁸ 11.1⁸ = 11.1⁵ .05 .05
 11.1⁸ v 2 h 11.3⁸

Plate B 3722 Op.

9.8³ d = .1
 v n.s. < 9.9³

Plate B 3769

10.8⁸ g 5 v ²³ 11.3⁸ 11.2⁸ = 11.2⁵ .05 .05
 11.2⁸ v 1 h 11.3⁸

Plate B 3770

10.8⁸ g 4 v
 h n.s. ~~11~~ 11.2⁸

Plate B 4969 Op.

8.6³ a = .1
 v n.s. < 8.7³

Plate B 5252

10.8⁸ g 1 v
 h n.s. ~~11~~ 10.9⁸

Plate B 5310

10.8⁸ g 3 v ¹⁸ 11.1⁸ 11.1⁸ = 11.1⁰ .05 .05
 11.1⁸ v 2 h 11.3⁸

November 14, 1895
 Meas. of new var. in Lupus (Cont.)

Plate B 6008

10.88⁸ g 1 v
 h ns. ~~10.98~~

Plate B 6009

10.88⁸ g 1 v 10.98⁸ 10.98⁸ = 10.90⁸ .00 .00
 10.98⁸ v 4 h 11.38⁸

Plate B 6067

10.88⁸ g 4 v 11.28⁸ 11.18⁸ = 11.15²³ .05 .05
 11.18⁸ v 2 h 11.38⁸

Plate B. 7621

10.88⁸ g 2 v 11.08⁸ 11.08⁸ = 11.00⁸ .00 .00
 11.08⁸ v 3 h 11.38⁸

Plate B 7348

10.88⁸ g 4 v 11.28⁸ 11.18⁸ = 11.15²³ .05 .05
 11.18⁸ v 2 h 11.38⁸

Plate B 7641

10.56⁶ f 2 v 10.76⁶ 10.68⁶ = 10.75⁷² .04 .04
 10.68⁸ v 2 g 10.88⁸

Plate B 7688 Sp.

10.21 e = .2
 v ns. < 10.41

Plate B 8292 Sp.

9.83 d = .2
 < 10.03

November 14, 1895.
Meas. of new var. in 'Lupno' (Cont).

Plate B 8321 Sp.

9.83 δ

$d = .1$

v n.s. < 9.93

Image irregular Plate B 9195

10.56 f 4 v

10.96 10.88 10.88 = 10.88⁹¹

.05 .03 .03

10.88 v o g

10.88

10.88 g 5 h

11.38

Image irregular Plate B 9266

10.56 f 2 v

10.76 10.68 = 10.68⁷²

.04 .04

10.68 v 2 g

10.88

Plate B 9425 Sp.

9.4⁵³

$c = .2$

v n.s. < 9.873

Plate B 9445 Sp.

9.83

$d = .2$

v n.s. < 10.03

Plate B 9668

10.56

f 4 v

10.96 10.88 10.78 = 10.88⁷

.09 .01 .09

10.88

v o g

10.88

10.78

5 6 h

11.38

November 14, 1895
 Meas. of new var. in Lupus (Ent.)

Plate B12894 Sp.
 very poor plate

Ent. B. 11239.
 For ident see B6066.
 Comp. stars marked. on RLB6066.

Plate B13035 Sp.
 Plate on which this new IV Type star
 spectrum was found by M.F.
 missing at time of measuring other plates
 Nov. 14, 1895.

November 18, 1895

Meas. of L.D. Wells. new var. in Lupus. Dec 7, 66.

Plate B13035 Sp.
 $9.18 + 2 \text{ v } 9.389 \overset{33}{2} = 9.25 \overset{36}{5} \quad .02 \quad .03$
 $9.2 \overset{33}{3} \text{ v } 2 \text{ c } 9.453$

Meas. of new var. star in Delta Centauri B6, p. 55.
 Plate B13772 Sp.

8.4 c 5 v 8.9 8.8 = 8.85
 8.8 v 1 d 8.9

Sp. Md. $H\gamma = 1.0$ $H\delta = 1.2$

November 18, 1895
 Meas. of new var. star in Aquila
 Sp. Md. Var Pl. B 13416 No. 7105
 Announced as var. by T. G. Espin
 R.A. $19^h 50.2$ Dec. $-2^{\circ} 16'$ (approx. 1855).

Plate B11647

var.	9.0		11.2 11.2 = 11.20
a	5.0	7.2	$-2^{\circ} 51' 55''$ 19 50 50.1 $-2^{\circ} 36' 6''$ 7.5
b	5.7	7.9	$-2^{\circ} 51' 51''$ 19 49 44.7 $-2^{\circ} 22' 5''$ 8.7
c	6.4	8.6	$-2^{\circ} 51' 57''$ 19 51 31.3 $-2^{\circ} 49' 8''$ 8.8
d	6.8	9.0	$-2^{\circ} 51' 49''$ 19 49 17.8 $-2^{\circ} 41' 2''$ 8.8
e	7.4	9.6	$-1^{\circ} 38' 66''$ 19 50 40.2 $-1^{\circ} 52' 0''$ 9.5
f	7.8	10.0	$-2^{\circ} 51' 50''$ 19 49 25.6 $-2^{\circ} 31' 1''$ 9.8
g	8.1	10.3	$-2^{\circ} 51' 53''$ 19 50 13.4 $-2^{\circ} 23' 8''$ 9.2
h	8.4	10.6	8.90
i	8.8	11.0	
j	9.2	11.4	
k	9.6	11.8	
l	9.9	12.1	
m	10.3	12.5	

11.0 k 2 v 11.2 11.1 = 11.15

11.1 v 3 l 11.4

Plate B19358

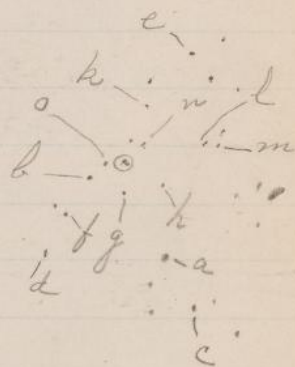
10.6 h = 3

v ns < 10.9

Plate I 9161

10.6 h = 3

v ns < 10.9



November 18, 1895.
 Meas of Espino's new var. (Cont).

Plate B 8588 Sp.

9.0 $d = .2$
 v n.s. < 9.2

Plate B 8402 Sp.

8.6 $c = .3$
 v n.s. < 8.9

Plate I 6681

does not cover region.

Plate B 8008

8.6 $c = 1$
 v n.s. < 8.7

Plate B 7362

9.0 d 1 v 9.1 9.2 = 9.15
 9.2 v 3 e 9.5

Plate B 5946

9.0 $d = .4$
 v n.s. < 9.4

Plate I 1751

12.0 $n = 12$
 v n.s. < 12.2

November 18, 1895.
 Mes. of Espino new var. (Cont.)

Plate I 1582

11.4

$l = .2$

v ms. < 11.6

Plate B 2837 Sp.
 Too poor

Plate B I 1906

12.0

$n = .2$

$v = 1?$ 12.1?

Plate B 647 Sp.
 Too poor

Plate F 1597

11.4

$l = .3$

v ms. < 11.7

Plate B 2779
 Too poor

Plate B 2829

12.0

$n = .2$

v ms. < 12.2

Plate I 4126

10.6

$h = .3$

v ms. < 10.9

Mem on 18, 1895.
 Meas. of Espin's new run in Aquila (Cont.)

Plate B 3016.

9.5 e 3 v 9.8 9.8 = 9.80
 9.8 v 2 f 10.0

Plate B 5977

11.8 m = 1.2
 v n.s. < 12.0

Plate ± 4234

11.8 m = 1.1
 v n.s. < 11.9

Plate B 6180

11.4 k = 1
 v n.s. < 11.5

Plate B 6181

11.0 k = 1.2
 v n.s. < 11.2

Plate B 7678

9.5 e 4 v 9.9 9.9 = 9.90
 9.9 v 1 f 10.0

Plate B 8479

11.0 k = 1.2
 v n.s. < 11.2

November 18, 1895.
 Meas. of ^I Osipis in Aquila (Cont).

Plate B 9624

11.0

 $k = .3$ r ns. < 11.3

Plate B 9840

10.7

 $g = .2$ r ns. ? < 10.4

Plate B 9841

10.6

 $h 3 r$

10.9

 $10.9 = 10.90$

10.9

 r, k

11.0

 $k = .2$
 r ns.

Plate B 9842

For near edge

Plate B 9857

11.4

 $l 4 r$

11.8

 $11.8 = 11.80$

11.8

 $r o m$

11.8

 n ns.

Plate B 10129 Sp.

10.0

 $f = .1$ r ns. < 10.1

Plate B 10154 Sp

9.5

 $c = .2$ r ns. < 9.7

Am further examination of
 this object proves it to be a
 defect, and the variable invisible

M.F. Nov. 19, 1895.

March 18, 1895
 Meas. of Ospeis var in Aquila (Cont.)

Plate B 10155 Sp.
 $f = 12$
 v n.s. < 10.2

Plate B 10355 Sp.
 $e = 13$
 v n.s. < 9.8

Plate B 10445
 $m = 1.1$
 v n.s. < 11.9

Plate B 10446
 $n = 1.2$
 v n.s. < 12.2

Plate B 13897

var	6.0	8.6 8.6 8.6 = 8.60	m 9.1	11.7
a	4.5 4.8 7.4		n 9.4	12.0
b	5.4 8.0		o 9.8	12.4
c	6.0 8.6		8.0 b 7 d v	8.7 8.6 8.6 = 8.63
d	6.4 9.0		8.6 a v o c	8.6
e	6.8 9.4		8.6 v 4 d	9.0
f	7.3 9.9			
g	7.6 10.2			
h	8.0 10.6			
k	8.3 10.9			
l	8.7 11.3			

6.33
 $\frac{8.9}{6.33} = 1.41$
 $\frac{6.33}{1.41} = 4.5$

November 18, 1895.
 Meas. of Rospice var. in Aquila

Plate I 6804

12.0 $n = 1.3$

r ns. < 12.3

Plate I 7183

12.0 $n = 1.2$

r ns. < 12.2

Plate B 7679

10.0 $f 2 v$ 10.7 10.6 = 10.10

10.0 $v 2 g$ 10.2

Plate I 8845

11.4 $l = 1.3$

r ns. < 11.7

Plate B 9858

11.4 $l 4 v$ 11.8 11.8 = 11.80

11.8 $v 0 m$ 11.8

n ns.

Plate I 11326

11.4 $l 3 v$ 11.7 11.6 = 11.65

11.6 $v 2 m$ 11.8

Plate I 11494

10.6 $h 3 v$ 10.9 10.9 = 10.90

10.9 $v 1 h$ 11.0

November 18, 1895.
 Meas. of Espino's var. in Aquila (Cont.)

Plate B13416 Sp

8.0 b 4 v 8.4 8.4 = 8.40

8.4 v 2 c 8.6

a bl 7

b A

c A

d A?

e Too ft

var Mol

$$H\beta \underline{0.11} = H\gamma = \underline{1.0}, H\delta = \underline{1.2}$$

November 19, 1895.

Meas. of New var. stone in letters L.D. Wells
BD - $1^{\circ} 47' 53''$ $12.0''$ - ~~$26''$~~ $-1^{\circ} 36' 9.1''$ (See L.D.W's Note B, 2 p. 84.)

Plate B12613

12.5^2 120
 12.7^2 122
 12.9^2 124
 12.1^2 126
 12.3^2 128
 12.5^2 130
 12.7^2 132
 12.9^2 134
 12.1^2 136
 12.3^2 138
 12.5^2 140
 12.7^2 142
 12.9^2 144
 12.1^2 146
 12.3^2 148
 12.5^2 150

	5.9	8.3						
a	5.9	8.3		12.92	$BD - 1^\circ 477$	3	13.8	-1 4 8.6
b	6.3	8.7			$-0^\circ 532$	3	13.7	-0 54 8.6
c	6.9	9.3			$-1^\circ 473$	3	11.5	-1 33 9.3
d	7.2	9.6			$-1^\circ 474$	3	11.7	-1 29 9.5
e	7.6	10.0			$-1^\circ 471$	3	11.4	-1 49 9.3? 9.00

f 8.1 10.5

g 8.3 10.7

8.6 11.0

2 8.9 11.3

2 9 1/2 11.6

m 95-119

11. 10.0 124

0 104 128

var 9.7 $12.4 + 12.4 = 12.5$.05 .05
+0 +0

Plate B13691

$12.8 \times 12.5 = 1235$

123 γ 1 π 124 γ 2

Plate ~~III~~ 12226 Sp.

9.3×10^{-12}
 9.6×10^{-10}
 9.7×10^{-19}

November 19, 1895. (Cont.)
Meas. of new rev. in

Plate I 4849
^{11.06}
~~10.5~~ $f = 1.1$ ^{11.16}
v ns. $< \overset{11.16}{\underset{10.6}{10.6}}$

Plate I 3271
^{10.89}
 $e = 1.4$ ^{10.99} ⁹⁹
v ns. < 10.5

Plate I 455
⁸²
^{9.3} c 5 v ^{10.32} ^{10.19} ^{10.19} = ^{10.23}
~~9.8~~ ~~9.7~~ ~~9.7~~ = ~~9.73~~ .09 .04 .04
^{10.19} v o d ^{9.7} ^{10.19}
~~9.7~~ v 4 e ^{10.59}
^{10.19}

Plate B 1860 Sp.
Plate very poor.

Plate I 2623
^{10.19}
^{9.7} d 5 v ^{10.69} ^{10.59} ⁶⁶ = ⁶⁵
~~10.59~~ v o e ^{10.59} .04 .06 .01
^{10.66} v 4 f ^{10.5} ^{11.06}

Plate I 370
⁸²
^{9.3} c 4 v ^{10.32} ^{10.09} = ^{10.16}
~~9.7~~ ~~9.6~~ = ~~9.65~~ .06 .07
^{10.09} v i d ^{9.7} ^{10.19}

Plate I 5006
^{10.59}
 $e 4 v$ ^{10.5} ⁹⁹ ⁹⁶ = ^{10.98} .01 .02
~~10.4~~ $v 1 f$ ^{10.5}
^{10.96} ^{11.06}

November 19, 1895. (Cont.)
 Meas. of L D Wells var. in Betts

Plate I 9540
⁵⁹ 10.8 ~~4~~ v ⁹⁹ 10.5 ⁹⁶ 10.4 = 10.45 ⁹⁸ .01 .02
¹⁰⁴ ~~10.96~~ v 1 f 10.5 11.06

Plate I 436
^{10.19} ~~9.7~~ d 4 v ⁵⁹ 10.8 ⁴⁹ 10.8 = 10.54 ⁹⁸ .05 .05
^{10.4} ~~10.49~~ v 1 e 10.8 59

Plate I 4308
^{11.29} ~~10.8~~ g 3 v ⁵⁹ 11.8 ^{11.42} 10.9 = 11.50 ⁹⁸ .09 .08
^{10.4} ~~11.42~~ v 2 h 11.62

Plate B 12616
^{12.52} ~~12.3~~ m 3 v ⁸² 12.3 ⁸² 12.5 = 12.30 ⁹⁸ .00 .00
^{12.3} ~~12.82~~ v 1 n 12.4 92

Plate I 4917
^{10.5} ~~11.06~~ f = 1 ^{11.16}
 v n.s. ^{10.6} ~~11.16~~

Plate I 490
^{10.19} ~~9.7~~ d 2 v ^{10.39} 10.39 = 10.39 ⁹⁸ .00 .00
^{9.9} ~~10.39~~ v 2 e ^{4.9} 4.9 = 9.90 ⁹⁸
^{10.39} ~~10.39~~

Plate I 5027 ⁶⁶ = 10.68 ⁹⁸ .01 .02
^{10.59} ~~10.1~~ e 1 v ^{10.469} 10.8 = 10.15
^{10.1} ~~10.66~~ v 4 f ^{10.5} ~~11.06~~

November 19, 1895.
Meas. of L D Wells' new ser. in Cetus (Cont).

Plate I 5327
⁸² 9.8 c 4 v ^{10.22} 9.7 ^{10.19} 9.7 = ^{10.20} 9.70 .02 .01
^{10.19} 9.7 v o d ^{9.7} 10.19
 e not covered by pl.

Plate I 10083
⁹² 12.4 m = 11 13.02
 v m.s. ~~12.5~~ 13.02

on edge. 12.0 m = 1 12.62
 12.52 v = .4 11.7? ²² ~~12.62~~
 other stars not on pl.

Plate B 11622
^{10.19} 9.7 d 2 v ^{10.39} 9.9 ^{10.39} 9.9 = ^{10.39} 9.90 .00 .00
^{9.9} 9.9 v 2 e 10.59
^{10.39}

Plate I 7632
 on edge of plate

on edge. Plate I 7734
⁵² 12.8 m = 1 12.62
 v = .4 11.7? ²² ~~12.62~~
 other stars not on plate

Plate I 9501
⁵⁹ 10.1 e 1 v ⁶⁹ 10.2 ⁶⁶ 10.1 = 10.15 .01 .02
^{10.1} 10.1 v 4 f 10.5 11.06

November 19, 1895
 Meas. of L D Wells' var. in 'Cetus (Cont.)

Plate ± 340

10.19 ⁹⁷ d = r ^{10.39} ^{10.29} ^{10.34}
⁹⁴ ⁹⁸ = 9.85 .05 .05
 10.29 ⁹⁸ v 3 e ^{10.1} ^{10.59}

Plate B 14344

⁸² ⁹³ c 1 r ⁹² ⁸⁹ = 9.90 .02 .01
⁹⁴ ⁹⁸ = 9.40
^{9.89} v 3 d ^{9.7} ^{10.19}

Plate B 8691

⁸⁵ ¹¹³ h 1 r ⁹⁵ ⁹⁵ ⁹⁵
¹¹⁴ ¹¹⁴ = 11.40 .00 .00
^{11.85} v 2 l ^{11.6} ^{12.15}

10.1 Plate B 2886

10.59 e = .3 10.89
 v ns. < 10.4 89

Plate B 3001

⁸⁵ ¹¹³ k 3 r ^{12.15} ^{12.05} = 12.10
^{11.5} ^{11.5} = 11.60 .05 .05
^{12.05} v 1 l ^{11.6} ^{12.15}

Plate B 6933

^{11.29} ^{10.8} g 1 r ^{11.39} ^{11.32} = 11.36 .03 .04
^{10.8} ^{10.8} = 10.85
^{11.32} v 3 l ^{11.1} ^{11.62}

Plate B 10613 sp

^{9.7} ^{10.19} d = .2 10.39
 v ns. < 9.9 < 10.39

November 19, 1895.
 Meas. of L. D. Wells var. in betus (Cont.)

10.19 Plate B10385 sp
~~9.7~~ $d = 13$ 10.49
 r ns. < 10.0 < 10.49

10.59 Plate B10378 Sp.
~~10.8~~ $e = 3$ 10.89
 r ns. < 10.4 < 10.89

10.59 Plate B10369 Sp
~~10.8~~ $e = 2$ 10.79
 r ns. < 10.3 < 10.79

10.59 Plate B10757
~~10.8~~ $e 1 r$ 10.2 10.1 10.68 = 10.15 .01 .02
~~10.6~~ $r 4 f$ 10.5 11.06

Plate I ~~964~~ 9644 Sp.
 Too poor

10.59 Plate I 7722
~~10.3~~ $e .3 r$ 10.4 10.86 10.88 = 10.35 .01 .02
~~10.86~~ $r 2 f$ 10.5
 a 6.4 8.2 11.06
 b 6.8 8.6
 c 7.5 9.3
 d 8.0 9.8
 e 8.5 10.3
 f 9.0 10.8

g 9.2 11.0
 h 9.5 11.3
 k 9.7 11.5
 l 10.0 11.8
 m 10.4 12.2
 n 7 7
 o ns. 7.
 var. 8.7 10.8 10.2 = 10.25 79 .76 78 .01 .02

December 19, 1895.
 Meas. of L.D. Wells' new run in lectures (Cont.)

Plate B6934
 11.06 f 2 v 11.26 $11.09 = 11.18$.08 .09
 10.5 10.7 $10.6 = 10.65$
 10.6 v 2 g 10.8 11.29
 11.09

Plate B11955
 82 c 1 v 92 $79 = 86$.06 .07
 93 94 $93 = 935$
 43 v 4 d 9.7 10.19
 9.79
 a 6.5 8.3
 b 7.2 8.9
 c 7.6 9.3
 d 7.9 9.6
 e 8.2 9.9
 f 8.6 10.3
 g 8.9 10.6
 h 9.3 11.0
 i 9.5 11.2
 l 9.8 11.5
 m 10.2 11.9
 n 10.5 12.2
 o 10.8 12.5
 ran 7.6 65 82 $89 = 79$.14 .03 .10
 9.1 9.3 $9.4 = 9.27$

Plate I 10544
 82 c 5 v 10.32 10.19 $10.09 = 10.20$.12 .01 .11
 93 94 $93 = 9.70$
 10.19 v o d 9.7 10.19
 10.09 v 5 e 10.59

November 19, 1895-
 Meas. of L. D. Well's new var. in betas (Cont.)

Plate I 9534

$10.1^{59} \text{ e } 3 \text{ v } 10.4^{89} 10.8^{86} = 10.35^{88} \quad .01 \quad .02$
 $10.3^{53} \text{ v } 2 \text{ f } 10.5^{11.06}$
 10.86

Plate I 5241

$10.197.7 \text{ d } 4 \text{ v } 10.1^{59} 10.2^{49} = 10.05^{54}$
 $10.2^{49} \text{ v } 1 \text{ e } 10.1^{59}$
 $.05 \quad .05$

Gal B1195-5-
 For ident see B12613,

November 21, 1895.
Meas. of Nova Normae.

Plate B 14349

14.64 ^{13.43} ~~13.4~~ ^{13.38} ~~13.26~~ $S = .3 < 14.94$ $n 5 S$
Nova ns. $02 = .2?$ $136?$ $S 6 t$.
~~13.68~~ ~~13.48?~~ ~~13.53?~~ $14.84?$ ✓

Plate B 13350

14.64 ^{13.43} ~~13.4~~ ^{13.38} ~~13.26~~ $S 2 N$ 13.63 $13.68 = 13.66$ $.03 .02$ $R 6 S$ 14.84 $14.60 = 14.72$ $12 12$ ✓
14.90 ^{13.7} ~~13.68~~ $N 3 t$ 13.6 $13.7 = 13.65$ 13.58 $13.60 = 13.54$ $.04 .04$ $S 5 t$
~~13.50~~ ~~13.28~~ 13.98 13.80 13.55 13.36 $13.28 = 13.32$ $.04 .04$

Plate B 14287

14.42 ^{12.88} ~~12.9~~ $R = .3$ < 14.72 12.86 14.62 ✓
 $N = .1?$ ~~13.2~~ $13.1?$ $< 13.17?$ $13.08?$

Plate B 14350 sp

13.61 ^{12.11} ^{12.33} ~~12.3~~ $p = .4$ < 12.51 < 14.01
 N ns. < 12.7 < 12.73

Plate B 10789 sp

very bright line = $H\gamma = 1.0$; line 5000 = $.2$; $H\beta = .2$

10.31 ^{9.65} ^{9.87} ~~9.8~~ $H\delta = .1$ 10.07 $10.15 = 10.11$ $.04 .04$
 $N 2 N$? 10.0 $10.0 = 10.00$ 9.85 $9.75 = 9.87$ $.04 .04$
10.82 ^{9.95} ^{10.0} ~~10.15~~ $N 2 K$? 10.35 10.2 10.51 $10.62 = 10.56$ $.05 .06$ ✓

Plate B 11048 sp

10.31 ^{9.65} ^{9.87} ~~9.8~~ $R = .2$
 $N = .1?$ $9.9?$ ~~10.06?~~ $9.97?$ $9.75?$ $10.41?$ ✓

Plate B 11327 sp

11.52 ^{10.65} ^{10.87} ~~10.8~~ $C = .4$ 11.92 $n = 11$ 72 ✓
 $N = .2$ 11.0 ~~11.25~~ $11.07?$ $10.85?$
 $5000 = .2$ $H\beta = .2$; $H\gamma = 1.0$
 $H\delta = .2$ $H\epsilon = .2$ $H\zeta = .3$

November 21, 1895
Meas. of Nova Normae

10.97 11.19
11.75 11.1

Plate B12767

$m = 12$

N ns.

< 11.3

$< 11.17 < 11.75 \checkmark$

< 11.39

Plate B12777

13.41 12.33
12.11 12.3
13.88 12.3
12.11 12.33

$\mu 1 N$ 12.4 12.3

$N 3 q$ 12.6 12.63

Plate B12823

10.65 10.87
11.52 10.8

$l = 13$

N ns.

< 11.1

Plate B12840

12.41 12.63
13.88 12.6

$q = 3$

N ns.

< 12.9

Plate B12913

12.66 12.88
14.42 12.9

$\mu 2 N$ 13.1

s ns.

Plate B13036

10.13 10.35
10.82 10.2

$k = 2$

N ns.

< 10.4

Plate B13049

12.66 13.88
14.42 12.9

$n = 15$

N ns.

< 13.4

< 13.38

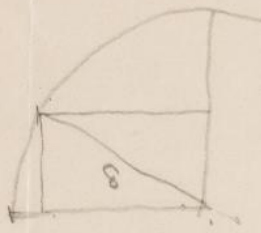
< 13.16

defect covers region

$< 14.92 \checkmark$



$$\begin{aligned} 1^{\circ} &= 4^m \\ 1^m &= 4^s \\ 15'' &= 1^s \end{aligned}$$



$$15'' \cos \delta$$

$$\begin{array}{r} 179 \\ 15 \cos \delta \\ 215.4 \\ 214.5 \\ \hline 15 \end{array}$$

$$107 = 1.2. \cos \delta$$

$$\begin{array}{r} 2.33325 \\ 1.17609 \\ \hline 1.15716 \end{array}$$

November 21, 1895
Meas. of Nova Normae

Plate B12767

10.97 11.19
11.75 11.1

$m = 12$

N ns.

< 11.3 < 11.39

< 11.17 < 11.75 ✓

Plate B12777

13.81 12.33
12.11 12.3
13.88
12.11 12.3
12.33

$\mu 1 N$

12.4 $12.3 = 12.35$

12.43 $12.33 = 12.38$ $.05$ $.05$

$N 3 q$

12.6 12.63

13.71 $13.58 = 13.64$ $.07$ $.06$ ✓

Plate B12823

10.65 10.87
11.52 10.8

$l = 13$

N ns.

< 11.1 < 11.17

< 10.75

< 11.82 ✓

Plate B12840

12.41 12.63
13.88 12.6

$q = 3$

N ns.

< 12.9

< 12.93

< 12.71

< 14.18 ✓

Plate B12913

12.66 12.88
14.42 12.9

$\mu 2 N$

13.1

12.86

14.62 ✓

S ns.

13.88

Plate B13036 sp.

10.13 10.35
10.82 10.2

$k = 2$

N ns.

< 10.4

< 10.55

< 10.32

< 11.02 ✓

Plate B13049

12.66 12.88
14.42 12.9

$n = 15$

N ns.

< 13.4

< 13.38

< 13.16

< 14.92 ✓

defect covers region

November 21, 1895.
Meas. of Nova Muscae

11.75 ^{10.77}
~~11.19~~
~~11.1~~

Plate B 13050 sp.

$m = 1.3$ ~~11.1~~

N ns. ~~11.4~~ ~~11.49~~ < 12.05 ✓

14.42 ^{12.88}

~~12.66~~ ~~12.9~~

Plate B 13177

$n = 1.2$

N ns. ~~13.1~~ ~~13.08~~ defect near. < 14.62 ✓

14.42 ^{12.88}

~~12.66~~ ~~12.9~~

14.64 ^{13.43}

~~13.16~~ ~~13.4~~

~~13.08~~ ~~13.5~~

14.64 ^{13.48}

~~14.90~~

Plate B 13336

$n 5 N$ ~~13.4~~ ~~13.4~~ ~~13.5~~ = ~~13.43~~

$N 0 A$ ~~13.4~~ ~~13.43~~ ~~13.38~~

$N 5 t$ ~~14.0~~ ~~13.98~~ ~~13.80~~

Plate B 13486

$A 1 N ?$ ~~13.5?~~ ~~13.53~~ ~~14.74?~~ ✓

t ns.

Plate B 13526

$n = 1.3$

$N = 1.1 ?$ ~~13.1?~~ ~~13.18~~ ~~13.08?~~ ~~12.86?~~ ~~14.62?~~ ✓

Plate B 13788

$n 5 N$ ~~13.4~~ ~~13.3~~ = ~~13.35~~

$N 1 A$ ~~13.4~~ ~~13.43~~

Plate B 13970

$A 2 N$ ~~13.6~~ ~~13.7~~ = ~~13.65~~

$N 3 t$ ~~14.0~~ ~~13.98~~ ~~13.80~~

November 21, 1895.
 Meas. of Nova Normae

14.64

13.16 13.43

Plate 14024

13.88 13.4

 $\Delta = .1$ N ns. ? $< 13.5?$ $< 13.53?$ 13.26? 13.48? $< 14.74?$ ✓

14.64

13.16 13.38 13.43

Plate B 14030

13.4

 $\Delta = .1$ N ns. ? $< 13.5?$ $< 13.53?$ 13.26? 13.48? $< 14.74?$ ✓

Plate X 6442 Sp.
 no good

Plate X 6503 Sp.
 no good.

Nov. 25, 1895

Measures of Androm. continued from B - p -

Plate I 13517

8.7 a 3 v 9.0 9.1 = 9.05

9.1 v 1 b 9.2

Plate I 12133

8.7 a 4 v 9.1 9.2 9.3 = 9.20

9.2 v 0 b 9.2

9.3 v 5 c 9.8

Plate I 12176

9.2 b 1 v 9.3 9.4 = 9.35

9.4 v 4 c 9.8

Plate I 12275

10.3 d 3 v 10.6 10.8 = 10.70

10.8 v 2 e 11.0

Plate I 12393

Too poor

Plate I 13079

Too poor.

Plate I 13098

11.2 f 5 v 11.7 11.3 = 11.50

11.3 v 1 g 11.4

Nov 25, 1895.
 Measures of τ Androm. continued from B - p.

Plate I 13112

10.3 d 4 v 10.7 10.8 = 10.75
 10.8 v 2 e 11.0

Plate I 13140

10.3 d 1 v 10.4 10.5 = 10.45
 10.5 v 5 e 11.0

Plate I 13149

10.3 d 1 v 10.4 10.6 = 10.50
 10.6 v 4 e 11.0

Plate I 13154

10.3 d 3 v 10.6 10.7 = 10.65
 10.7 v 3 e 11.0

Plate I 13170
 Useless,

Plate I 13184
 Useless

Plate I 13202

9.8 c 4 v 10.2 10.2 = 10.20
 10.2 v 1 d 10.3

Plate I 13213
 Useless.

Nov. 25, 1895—
Measures of T Androm. cont.

Plate I 13225
Useless.

Plate I 13236

9.8 c 2 v 10.0 10.0 = 10.00
10.0 v 3 d 10.3

Plate I 13263

9.2 b 1 v 9.3 9.3 = 9.30
9.3 v 5 c 9.8

Plate I 13274

9.2 b 1 v 9.3 9.3 9.30
9.3 v 5 c 9.8

Plate I 13286

8.7 a 4 v 9.1 9.2 9.2 = ~~9.22~~^{9.25}
9.2 v 0 b 9.2
9.2 v 6 c 9.8

Plate I 13288

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

Plate I 13294

9.2 b 3 v 9.5 9.5 = 9.50
9.5 v 3 c 9.8

Nov 25, 1895
 Measures of π Androm. cont.

Plate I 13331

⁴
 9.2 b 2 v 9.4 9.4 = 9.40
 9.4 v 4 c 9.8

Plate I 13608

³
 9.8 b 1 v 9.3 9.2 9.25
 9.2 v 6 c 9.8

Plate I 13630

²
 9.3 b 1 v 9.3 9.3 = 9.30
 9.3 v 5 c 9.8

Plate I 13636

Dec - 28°

Plate I 13637

9.2 b 4 v 9.6 9.5 = 9.55
 9.5 v 3 c 9.8

Plate I 13791

9.2 b 3 v 9.5 9.6 = 9.55
 9.6 v 2 c 9.8

Permeasured independently
 Nov. 26 1895 in μ 10²

Plate b 7612

11.0 c = .3

v N.S. < 11.3

Nov 25, 1895—
Measures of γ Androm. cont.

Plate ϵ 7623
Useless

Plate ϵ 7697

11.0 $\epsilon = .3$

γ N.S. < 11.3

Plate ϵ 7719

11.0 $\epsilon = .2$

γ N.S. < 11.2

Plate ϵ 7735

10.3 $\epsilon = .4$

γ N.S. < 10.7

Plate ϵ 7745

10.3 $\epsilon = .2$

γ N.S. < 10.5

Plate ϵ 7753

11.2 $\epsilon = .3$

γ N.S. < 11.5

Plate ϵ 7792

11.2 $\epsilon = .4$

γ N.S. < 11.6

Nov. 25, 1895
Measures of T. Androm. cont.

~~Plate le 7753~~

~~$f = .3$~~

~~v N.S.~~

Plate le 7817

Useless

Plate le 7838

11.2 $f = .2$

v N.S. < 11.4

Plate le 8005

Does not cover region

Plate le 8025

can't identify

Plate le 8035

10.3 d 3 v 10.6 10.8 = 10.70

10.8 v 2 e 11.0

Plate le 8047

10.3 d 4 v 10.7 10.8 = 10.75

10.8 v 2 e 11.0

Plate le 8051

10.3 d 3 v 10.6 10.7 = 10.65

10.7 v 3 e 11.0

Nov 25, 1895
Measures of T Androm. cont.

Plate le 8062

10.3 d 2 v 10.5 10.6 = 10.55

10.6 v 4 e 11.0

Plate le 8098

c off plate

10.2 v 1 d 10.3 = < 10.2

Plate le 8115

9.2 b 5 v 9.7 9.7 = 9.70

9.7 v 1 c 9.8

Plate le 8124

9.2 b 5 v 9.7 9.8 9.8 = 9.77

9.8 v 0 c 9.8

9.8 e 5 d 10.3

Plate le 8135

9.2 b 5 v 9.7 9.7 = 9.70

9.7 v 1 c 9.8

Plate le 8155

9.2 b 4 v 9.6 9.6 = 9.60

9.6 v 2 c 9.8

Plate le 8175

9.2 b 3 v 9.5 9.5 = 9.50

9.5 v 3 c 9.8

Nov 25, 1895
Measures of T Androm. cont

Plate le 8182
~~Wrong region~~
 8.7 a 4 v 9.1 9.2 9.3 = 9.20
 9.2 v 0 b 9.2
 9.3 v 5 c 9.8

Plate le 8204
 9.2 b 3 v 9.5 9.5 = 9.50
 9.5 v 3 c 9.8

Plate le 8256
 8.7 a 4 v 9.1 9.2 9.2 = 9.20¹⁷
 9.2 v 0 b 9.2
 9.2 v 6 c 9.8

Plate le 8349
 9.2 b 3 v 9.5 9.6 = 9.55
 9.6 v 2 c 9.8

Plate le 8365
 9.2 b 5 v 9.7 9.7 = 9.70
 9.7 v 1 c 9.8

Plate I 13454
 8.7 a 4 v 9.1 9.2 9.3 = 9.20
 9.2 v 0 b 9.2
 9.3 v 5 c 9.8

Plate I 13429
 8.7 a 5 v 9.2 9.2 9.3 = 9.23
 9.2 v 0 b 9.2
 9.3 v 5 c 9.8

Nov. 25, 1895
Measures of δ Androm. cont.

Plate I 13410

8.7 a 1 v 8.8 8.8 8.9 9.0 = 8.88
8.8 v 3 b 9.2
8.7 a 2 v 8.9
9.0 v 2 b 9.2

Plate I 13373

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

Plate I 13305

8.7 a 3 v 9.0 9.1 = 9.05
9.1 v 1 b 9.2

November 26, 1895.
Second meas. of δ Andromedae.
Plate I 13791

10.3 d 3 v 10.6 10.7 = 10.65
10.7 v 3 c 11.0

Nov 26, 1895
 Measures of τ Androm.
 Plate I 13496

9.2 b 2 v 9.4 9.5 = 9.45
 9.5 v 3 c 9.8

Plate I 13661
 9.2 b 4 v 9.6 9.6 = 9.60
 9.6 v 2 c 9.8

Plate I 13775
 10.3 d 3 v 10.6 10.8 = 10.70
 10.8 v 2 e 11.0

Plate I 13497
 9.2 b 2 v 9.4 9.4 = 9.40
 9.4 v 4 c 9.8

Plate I 13755
 10.3 d 1 v 10.4 10.5 = 10.45
 10.5 v 5 e 11.0

Plate 13833
 10.3 d 5 v 10.8 11.0 10.8 = 10.87
 11.0 v 0 e 11.0
 10.8 v 4 f 11.2

Plate I 13774
 10.3 d 5 v 10.8 10.9 = 10.85
 10.9 v 1 e 11.0

Nov 26, 1895
Measures of γ Androm.

Plate I 13742

9.8 c 4 v 10.2 10.3 10.4 = 10.30
10.3 v 0 d 10.3
10.4 v 6 e 11.0

Plate Ic 8437

10.3 d 2 v 10.5 10.6 = 10.55
10.6 v 4 e 11.0

Plate I 13098 (2d measure) film adaptation over v

11.2 f 5 v 11.7 11.4 11.4 = 11.50
11.4 v 0 g 11.4
11.4 v 5 h 11.9

Plate I 13496

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

Plate I 13497

8.7 a 4 v 9.1 9.2 9.2 = 9.17
9.2 v 0 h 9.2
9.2 v 6 c 9.8

Plate I 13833

10.3 d 5 v 10.8 10.9 = 10.85
10.9 v 1 e 11.0

December 4, 1895.

Examination of H.P. 2894 (BD +49° 2614) on
photographic Charts

$$\begin{array}{rcl} a = BD + 50^\circ 2832 & 7.8 & 7.8 \\ b = BD + 49^\circ 2615 & 8.5 & 8.7 \\ & & \hline & & 8.25 \end{array}$$

Plate I 8676

$$\begin{array}{rcl} 7.8 & a & 1 \quad 2894 \\ 7.8 & 2894 & 8 \quad b \quad 8.6 \end{array} \quad 7.9 \quad 7.8 = 7.85$$

Plate I 11129

$$\begin{array}{rcl} 7.8 & a & 1 \quad 2894 \\ 7.8 & 2894 & 8 \quad b \quad 8.6 \end{array} \quad 7.9 \quad 7.8 = 7.85$$

7.8 Plate I 11450

$$\begin{array}{rcl} a & 0 & 2894 \\ 2894 & 10 & b \quad 8.6 \end{array} \quad 7.8 \quad 7.6 = 7.75$$

Plate I 11449

$$\begin{array}{rcl} 7.8 & a & 0 \quad 2894 \\ 7.7 & 2894 & 9 \quad b \quad 8.6 \end{array} \quad 7.8 \quad 7.7 = 7.75$$

Plate I 4176

$$\begin{array}{rcl} 7.8 & a & 0 \quad 2894 \\ 7.7 & 2894 & 9 \quad b \quad 8.6 \end{array} \quad 7.8 \quad 7.7 = 7.75$$

Plate I 6572

$$\begin{array}{rcl} 7.8 & a & 0 \quad 2894 \\ 7.7 & 2894 & 9 \quad b \quad 8.6 \end{array} \quad 7.8 \quad 7.7 = 7.75$$

Plate I 9001

$$\begin{array}{rcl} 7.8 & a & 0 \quad 2894 \\ 7.8 & 2894 & 8 \quad b \quad 8.6 \end{array} \quad 7.8 \quad 7.8 = 7.80$$

December 4, 1894⁵
 Exam. of H.P. 2894 (Cont.)

Plate I 11282

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate I 9515-

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate I 8928

7.8 a 0 2894 7.8 7.6 = 7.70
 7.6 2894 10 b 8.6

Plate I. 8868

7.8 a 0 2894 7.8 7.6 = 7.70
 7.6 2894 10 b 8.6

Plate I ~~13357~~
 14012

7.8 a 0 2894 7.8 7.6 = 7.70
 7.6 2894 10 b 8.6

Plate I 13358

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate I 12319

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Dec. 4, 1895.

Exam. of H.P. 2894 (cont.)

Plate I 12961

7.8 a 1 2894 7.9 7.7 = ~~7.70~~ 7.80
 7.7 2894 9 b 8.6

Plate I 6529

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate B 2329

7.8 a 1 2894 7.9 7.8 = 7.85
 7.8 2894 8 b 8.6

Plate B 2254

7.8 a 0 2894 7.8 7.6 = 7.70
 7.6 2894 10 b 8.6

Plate B 2683 Sf.

Plate I 11283

7.8 a 1 2894 7.9
 b n.s.

Plate I 3784

7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate I 11039

7.8 a 0 2894 7.8 7.6 = 7.70
 7.6 2894 10 b 8.6

Dec. 4, 1895.
Exam of H.P. 2894. (Cont.)

Plate I 3860

7.8 a 1 2894 7.9 7.7 = 7.80
7.7 2894 9 b 8.6

Plate I 9135

7.6 ~~7.8~~ ↑ 2894 2 a 7.8 = 7.6

Plate I 2117

7.7 ↑ 2894 1 a 7.8 = 7.7

Plate I 3997

7.5 2894 3 a 7.8 = 7.5

Plate I 8950

7.8 2894 0 a 7.8 7.6 = 7.70
7.6 2894 10 b 8.6

Plate I 11103

7.8 2894 0 a 7.8 on edge of plate 7.8

Plate I 9135

7.5 2894 3. a 7.8 = 7.5

I 3704 sf

7.6 2894 2 a 7.8 = 7.6
a, b, & 2894 bl. K

Dec. 4, 1895.

Plate I 3824 Sf.
 7.6 2894 2 a 7.8 = 7.6

Plate I 3729 Sf.
 7.6 2894 4 a 7.8 = 7.4

Plate I 8725
 7.8 a 0 2894 7.8 7.7 = 7.75
 7.7 2894 9 b 8.6

Plate I 8950
 670 a 6.3 7.8
 b 7.1 8.6
 2894 7.3
~~7.5~~ 7.8 7.8 = 7.80 .00 .00

8.2
 6.7
 1.5

Plate I 8676
 6.55 a 6.1 7.7
 b 7.0 8.6
 2894 6.2
 7.9 7.8 = 7.85 .05 .05

8.2
 6.6
 1.6

Plate I 9153³⁵
 7.15 a 7.0 8.0
 b 7.3 8.5
 2894 6.7
 7.5 8.0 = 7.75 25 25

8.2
 7.2
 1.0

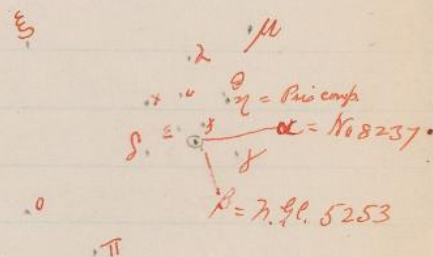
Plate I 2117
 7.20 a 7.0 8.0
 b 7.4 8.4
 2894 6.8

8.2
 7.2
 1.0

7.6 8.0 = 7.80 20 20

December 13, 1895.
 Examination of Plates for object (Nova Centauri)
 No. 8237 on Plate B 14051 found by M. F.
 Dec. 12, 1895 (See book 95 p. 22. New star
 or var? Spectrum peculiar!! Close to
 N.C. 5253 13 343 - 31 7.9 (1900). it foll. and is N of N.C.,
 Plate B 14072 ch.

For comp. stars see p. 117.



December 13, 1895 B 14072

0.30

	V.		H.	
α	46818	22	48484	1
	46818	22	48490	5
	46813	3	48482	3

46,816 48 485

β	46928	6	48612	1
	46936	2	48615	2
	46939	5	48613	0

46934 48613

December 13, 1895

Plate B 14072

 $r = y.$ $\pi = F$

v.

16

γ	46778	1	49425	<u>6</u>
	46772	<u>5</u>	49434	3
	46780	3	49434	3

46777	49431
-------	-------

δ	47409	<u>2</u>	47238	8
	47411	0	472 ² 37	<u>3</u>
	47414	3	47225	<u>5</u>

47411	47230
-------	-------

ϵ	46595	3	478 ⁶ 56	<u>5</u>
	46597	1	47874	3
	46601	3	47873	2

46598	47871
-------	-------

3γ	46450	1	48575	4
	46449	0	48585	6
	46448	1	48578	1

46449	48579
-------	-------

1.05

December 13, 1895.

Plate B14072

	γ		H	
η	45563	<u>2</u>	48826	0
	45568	3	48828	2
	45563	<u>2</u>	48825	1
	45565		48826	

θ	45466	1	48706	4
	45470	3	48700	<u>2</u>
	45465	<u>2</u>	48700	<u>2</u>
	45467		48702	

ν	45547	1	47781	<u>3</u>
	45543	<u>3</u>	47788	4
	45548	2	47784	0
	45546		47784	

K	45820	0	47057	1
	45821	1	47053	<u>2</u>
	45819	1	47057	1
	45820		47056	

1.15

December 13, 1895
Plate B 14072

	ν		H	
λ	44701	3	47690	α 1
	44695	<u>3</u>	47689	γ <u>2</u>
	44697	1	47693	2
	44698		47691	

μ	43877	2	48248	<u>2</u>
	43874	1	48250	0
	43875	0	48252	2
	43875		48250	

$3C13^L$ 1874	1	52693	1	56485	<u>2</u>
		52689	<u>3</u>	56489	2
		52694	2	56488	1

Assumed to be 57.692 ~~52.692~~ 56.487

$3C13^L$ 1908	2	41 ⁸⁹⁶ 777	2	52898	3
		41890	<u>4</u>	52893	<u>2</u>
		41895	1	52893	<u>2</u>
		41894		52895	

December 13, 1895

Plate B 14072

$$\begin{array}{l} \text{3C } 13^h 1947^m 3 \\ \text{3C } 13^h 1947^m 3 \end{array}$$

$$\begin{array}{rcl} \text{V} & 76 & \\ 32.576 & 2 & 49565 \quad 1 \\ 32.473 & 1 & 49564 \quad 0 \\ 32.472 & 0 & 49563 \quad 1 \end{array}$$

$$32.4720 \quad 49564$$

$$\text{3C } 13^h 1963^m 4$$

$$\begin{array}{rcl} 62892 & 1 & 50817 \quad 1 \\ 62894 & 1 & 50814 \quad 2 \\ 62894 & 1 & 50818 \quad 2 \end{array}$$

$$62.893 \quad 50816$$

$$\text{3C } 13^h 2059^m 5$$

$$\begin{array}{rcl} 33684 & 1 & 41663 \quad 4 \quad 2 \\ 33685 & 2 & 41664 \quad 3 \quad 1 \\ 33680 & 2 & 41668 \quad 3 \end{array}$$

$$33.683 \quad 41668^5$$

$$\text{3C } 13^h 2134^m 6$$

$$\begin{array}{rcl} 45635 & 1 & 38173 \quad 1 \\ 45636 & 0 & 38167 \quad 5 \\ 45637 & 1 & 38175 \quad 3 \end{array}$$

$$45.636 \quad 38172$$

December 13, 1895.
Plate B 14072

Net. 2. V V H

51732	1	497 ⁴ 0	1
51733	0	49741	2
51735	2	49737	<u>2</u>
51733		49739	

2nd Measure α

46820	1	48491	1
46823	2	48493	1
46819	<u>2</u>	48493	1
46821		48492	

2nd Measure β

46945	2	48613	3
46945	2	48609	1
46939	<u>4</u>	48609	1
46943		48610	

ξ

45561	0	44994	0
45562	1	44994	0
45561	0	44993	1
45561		44994	

December 13, 1895.
Plate B 14072

γ H

0	49073	2	45267	<u>2</u>
	49070	1	45270	1
	49070	1	45271	2
	49071		45269	

π

	49804	1	46861	<u>2</u>
	49805	2	46864	1
	49800	3	46864	1
	49803		46863	

3rd measure α

	46825	0	48494	1
	46824	1	48498	3
	46825	0	48 ⁴⁹³ 504	<u>2</u>
	46825		48495	

3rd measure β

	46950	0	48610	1
	46950	0	48614	3
	46949	1	48610	1
	46950		486.11	

Diff α and β

118	128
122	118
125	116

\therefore *Thore* ^{follows} $22.9 = 12.8 \ 1525$
and is 22.9

10675
4575
12200
12763

189
378
23058
187
22869
15
22758
1525

16

December ~~15~~ 1895
Meas. of Nova Centauri (Cont.)

Plate B3331

9.7 ~~10.2~~ $\mu = .3$

N ns.

~~10.5~~ < 10.0

insp. net. ns.

Plate B3635 Sp.

8.6 $d = .1$

N ns. < 8.7

Plate B5136

11.3 $\mu = .3$

N ns.

< 11.6

insp net ns.

Plate B3542

11.3 $\mu = .2$

N ns.

< 11.5

insp net = μ

Pl. I 5975

10.6 $m = 0 = .2$

N ns.

< 10.8 on edge of pl.

Plate B5791 Sp.

8.6 $C = 1$

N ns.

< 8.1

Plate B5241

11.7 $\eta = S = 3$

N

ns, insp net = S < 12.0

December 16, 1895.
Meas. of Nova Centauri (Cont.)

Plate B5305

$$11.7 \text{ } g = A = .1$$

N ns. < 11.8

Ans. neb = .1 A.

Plate B5307

$$11.3 \text{ } p = k = .3$$

N ns. < 11.6

susp. neb = .1

~~Plate~~ Plate I 3552

$$9.1 \text{ } f = .4$$

N ns. < 9.5

susp. neb ns.

Rec. double image

Plate B5981

$$11.7 \text{ } g = A = .1$$

N ns. < 11.8

$p = n$ 3 neb

neb 1 A

Plate I 3677

$$8.9 \text{ } c = .4$$

N ns. < 9.3

Plate B6432

$$10.8 \text{ } n = p = .3$$

N ns. < 11.1

December 16, 1895.
 Meas. of Nova Centauri (Cont.)

Plate B6433

$$10.0 \quad k=m=3$$

N ns. $\angle 10.3$

exp var ns.

Plate B7378

$$10.2 \quad k=n=1.4$$

N ns. $\angle 10.6$

exp. var. ns.

Plate B7379

$$10.2 \quad k=n=1.2$$

N ns. $\angle 10.4$

exp var ns.

Plate B7625

$$10.6m=0=3$$

N ns. $\angle 10.9$

exp. var. ns.

Plate ~~B5305~~ B7989 sp.

a sp 7

b " 7

c " 7

d " 8

e A?

f 70 ft ~~fig~~

g " "

h = .3

N ns.

fig
reg

December 16, 1895.
Meas. of Nova Centauri (Cont.)

* Plate B9401 Sp.
h = .2
N ns.

Plate B9525
11.7 $g = \Delta = .2$
N ns. $\angle 11.9$
Susp. neb = S.

Plate B9721
11.7 $g = \Delta = .1$
N ns. $\angle 11.8$
Susp. Neb. ns.

Plate B9975
11.7 $g = \Delta = .2$
N ns. $\angle 11.9$
Susp. neb = A

Plate B9976
Plate spoiled. Useless.

Plate B10860.
11.2 $0 = g = .2$
N ns. $\angle 11.4$

Plate B11198
11.7 $g = 0 = .2$
N ns. $\angle 11.9$

December 16, 1895
 Meas. of Nova Centauri (Cont.)

Plate B11199

$$11.3 p = r = .2$$

N ns. < 11.5

exp. nr. ns.

Plate B11236

$$11.7 q = s = .2$$

N ns. < 11.9

exp. nr. ns.

Plate B11326 sp.

$$* g = .3$$

N ns.

exp. nr. ns.

Plate B11449

$$10.2 k = v = .2$$

N ns. < 10.4

exp. nr. ns.

Plate B12804

$$11.7 q = k = .4$$

N ns. < 12.1

exp. nr. ns.

Plate B12841

$$10.6 m = o = .2$$

N ns. < 10.8

exp. nr. ns.

December 16, 1895
 Meas. of Nova Centauri (Cont.)

* Plate B 13058 Sp.
 $g = .3$
 N ns.

* Plate B 13067 Sp.
 $h = .2$
 N ns.

* Plate B 13159 Sp.
 $h = .1$
 N ns.

Plate B 13165 Sp.
 $9.4 g = K = .4$
 $N = 1?$ May be defect. $< 9.8?$

Plate B 13234
 $11.3 p = v = .1$
 N ns. < 11.4

Plate B 13482
 $11.7 g = A = .3$
 N ns. < 12.0
 susp. prob. = A

Plate B 13524
 $11.7 g = A = .4$
 N ns. < 12.0
 susp. prob. = A

December 16, 1895.
 Meas. of Nova Centauri (Cont.)

Plate B 13965

Nova 5.5

a 5.2

b 5.7

c 6.3

d 7.0

e 7.3

f 7.5

g 7.5

h 7.8

i 8.0

j 8.2

k 8.4

l 8.6

m 8.9

n 9.2

o 9.4

p 9.6

q 10.0

r 10.0

s 10.0

t 10.0

u 10.0

v 10.0

w 10.0

x 10.0

y 10.0

z 10.0

aa 10.0

ab 10.0

ac 10.0

ad 10.0

ae 10.0

af 10.0

ag 10.0

ah 10.0

ai 10.0

aj 10.0

ak 10.0

al 10.0

am 10.0

an 10.0

ao 10.0

ap 10.0

aq 10.0

ar 10.0

as 10.0

at 10.0

au 10.0

av 10.0

aw 10.0

ax 10.0

ay 10.0

az 10.0

ba 10.0

bb 10.0

bc 10.0

bd 10.0

be 10.0

bf 10.0

bg 10.0

bh 10.0

bi 10.0

bj 10.0

bk 10.0

bl 10.0

bm 10.0

bn 10.0

bo 10.0

bp 10.0

bq 10.0

br 10.0

bs 10.0

bt 10.0

bu 10.0

bv 10.0

bw 10.0

bx 10.0

by 10.0

bz 10.0

ca 10.0

cb 10.0

cc 10.0

cd 10.0

ce 10.0

cf 10.0

cg 10.0

ch 10.0

ci 10.0

cj 10.0

ck 10.0

cl 10.0

cm 10.0

cn 10.0

co 10.0

cp 10.0

cq 10.0

cr 10.0

cs 10.0

ct 10.0

cu 10.0

cv 10.0

cw 10.0

cx 10.0

cy 10.0

cz 10.0

da 10.0

db 10.0

dc 10.0

dd 10.0

de 10.0

df 10.0

dg 10.0

dh 10.0

di 10.0

dj 10.0

dk 10.0

dl 10.0

dm 10.0

dn 10.0

do 10.0

dp 10.0

dq 10.0

dr 10.0

ds 10.0

dt 10.0

du 10.0

dv 10.0

dw 10.0

dx 10.0

dy 10.0

dz 10.0

ea 10.0

eb 10.0

ec 10.0

ed 10.0

ee 10.0

ef 10.0

eg 10.0

eh 10.0

ei 10.0

ej 10.0

ek 10.0

el 10.0

em 10.0

en 10.0

eo 10.0

ep 10.0

eq 10.0

er 10.0

es 10.0

et 10.0

eu 10.0

ev 10.0

ew 10.0

ex 10.0

ey 10.0

ez 10.0

fa 10.0

fb 10.0

fc 10.0

fd 10.0

fe 10.0

ff 10.0

fg 10.0

fh 10.0

fi 10.0

fj 10.0

fk 10.0

fl 10.0

fm 10.0

fn 10.0

fo 10.0

fp 10.0

fq 10.0

fr 10.0

fs 10.0

ft 10.0

fu 10.0

fv 10.0

fw 10.0

fx 10.0

fy 10.0

fz 10.0

ga 10.0

gb 10.0

gc 10.0

gd 10.0

ge 10.0

gf 10.0

gg 10.0

gh 10.0

gi 10.0

gj 10.0

gk 10.0

gl 10.0

gm 10.0

gn 10.0

go 10.0

gp 10.0

gq 10.0

gr 10.0

gs 10.0

gt 10.0

gu 10.0

gv 10.0

gw 10.0

gx 10.0

gy 10.0

gz 10.0

ha 10.0

hb 10.0

hc 10.0

hd 10.0

he 10.0

hf 10.0

hg 10.0

hh 10.0

hi 10.0

hj 10.0

hk 10.0

hl 10.0

hm 10.0

hn 10.0

ho 10.0

hp 10.0

hq 10.0

hr 10.0

hs 10.0

ht 10.0

hu 10.0

hv 10.0

hw 10.0

hx 10.0

hy 10.0

hz 10.0

ia 10.0

ib 10.0

ic 10.0

id 10.0

ie 10.0

if 10.0

ig 10.0

ih 10.0

ii 10.0

ij 10.0

ik 10.0

il 10.0

im 10.0

in 10.0

io 10.0

ip 10.0

iq 10.0

ir 10.0

is 10.0

it 10.0

iu 10.0

iv 10.0

iw 10.0

ix 10.0

iy 10.0

iz 10.0

ja 10.0

jb 10.0

jc 10.0

jd 10.0

je 10.0

jf 10.0

jj 10.0

jh 10.0

ji 10.0

jj 10.0

jk 10.0

jl 10.0

December 16, 1895.
 Meas. of Nova Centauri (Cont.)
 Plate B 13390, ff.

* $g = 1.1$
 N ns.

Plate B 14072
 6.8 a 3 N 7.1 7.3 = 7.20
 7.3 N 1 b 7.4

Plate I 3788.
 * $g = 1.3$
 N ns.

from pl.

Plate I 6236
 Useless.

Plate I 6459
 9.4 $g = K = 1.3$
 N ns. < 9.7

Plate I 6504
 8.9 $c = 1$
 N ns. < 9.0

very from pl. On edge.

Plate I 8457
 10.2 $b = n = 1.3$
 N ns. < 10.5

on edge of plate

December 16, 1895.
 Meas. of Nova Centauri (Cont.)

Plate I 8460

Useless.

Plate I 8551

$$9.7 \text{ } h=c=.3$$

$N \text{ ns. } < 10.1$

Plate I 8597

$$9.4 \text{ } g=k=.3$$

$N \text{ ns. } < 9.7$

Plate I 8602 Sp.

Too near edge of plate
 Useless

Plate I 8679

Too near edge of plate

Plate B 14151 Sp

$$7.4 \text{ } b4 \text{ } N \text{ } 7.8 \text{ } 7.7 = 7.75$$

$$7.7 \text{ } N3 \text{ } C \text{ } 8.0$$

December 16 1895.
Meas. of Nova Centauri (Cont.)

Plate B13482

N	ns,
a	5.4
b	6.0
c	6.6
d	7.1
e	7.5
f	7.7
g	7.3 rej
h	7.5 rej
g	7.7
h	8.1
k	8.3
l	8.6
m	9.0
n	9.2
o	9.6
p	9.8
q	10.2

Plate B5305-

N	ns,	g	7.8	rej	m	p	9.7
a	5.8	gh	8.2	rej	o	q	10.2
b	6.6	g	8.4		p	r	10.4
c	7.1	h	8.7		q	s	10.8?
d	7.6	k	m	9.0			
e	7.8	l	n	9.2			
f	8.0	m	o	9.5			

December 16, 1895.
Meas. of Nova Centauri Cont.

Plate B9721

N	ns.
a	5.7
b	6.3
c	7.0
d	7.4
e	7.7
f	7.9
g	7.8
h	8.1
i	8.4
j	8.8
k	9.0
l	9.3
m	9.7
n	9.9
o	10.3
p	10.4
q	10.7?

Plate C 8586

8

December 18, 1895.
 Meas. of Nova Centauri (Cont.)

Plate I 12836
 useless

New notation for sequence
 to be used.

Plate I 12756

11.7 $q = .2$

N ns. < 11.9

Plate I 12973

10.6 $m = .3$

N ns. < 10.9

Plate I 12972

10.0 $k = .2$

N ns. < 10.2

Plate I 12423

10.0 ~~h~~ $k = .2$

N ns. < 10.2

Plate I 12424

9.7 $h = .1$

N ns. < 9.8

Plate I 12577

10.2 $l = 3$

N ns. < 10.5

December 18, 1895.
 Meas. of Nova Centauri (Cont).

Plate I 12578
 10.2 $l = 1.2$
 N ns. $\angle 10.4$

Plate I 12757
 10.2 $l = 1.2$
 N ns. $\angle 10.4$

Plate I 14076
 Too poor.
 10.2 $l = 3$ N ? 10.5?
 m ns.

Plate I 8291 sp.
 Too poor.

Plate B ~~9~~ 9524
 10.6 $m = 1.2$
 N ns. $\angle 10.8$

Plate B 11454
 10.8 $m = 1.2$
 N ns. $\angle 11.0$

Plate B 13298
 11.9 $q = 1.3$
 N ns. $\angle 12.0$

December 18, 1895
 Meas. of Nova Centauri (Cont.)

Plate I 14056

10.2 $h = 3$ $N = ?$ 10.5?
 $N = 1$?

very poor pl. many red spots

Plate I 14057

very poor pl. no ft. objects seen

Plate I 14091

very poor plate.

Plate C 8602

10.8 $m = 1$ $N = 10.9$ $10.9 = 10.90$.00 .00
 10.9 $N = 3$ 0 11.2

Plate C 8601

10.2 $h = 1.3$
 N vs. ? < 10.5

Plate C 8624

9.7 $h = .1$
 N vs. < 9.8

Plate C 8625-

Too poor

Plate C 8086

10.6 $m = 2$ $N = ?$ 10.8?
 m vs.

December 18, 1895.
 Meas. of Nova Centauri (Cont).

Plate C 8584

10.2 $h = .1$
 N ms. < 10.3

Plate C 8585

10.2 $h = .3$
 N ms. < 10.5

Plate I 3788

8.9 $e = .5$
 N ms. < 9.4

Plate B 13390

8.6 $d = .7$
 e off plate
 N ms. < 9.3

Plate B 13159

9.1 $f = .4$
 N ms. < 9.5

Plate B 13067

9.4 $g = .1$
 N ms. < 9.5

Plate B 13058

9.4 $g = .1$
 N ms. < 9.5

December 18, 1895
 Meas. of Nova Centauri (Cont.)

Plate B 7989

9.4 $g = .1$
 N ns. < 9.5

Plate B 9401

9.4 $g = .3$
 N ns. < 9.7

Plate B 11326

9.4 $g = .1$
 N ns. < 9.5

Meas. Cont on p 161

December 18, 1895.
 Meas of L. D. Wells' new Algol variable
 BD +17° 4367 9.1 . Gamma also BD +17° 4370.

Plate I 13275

✓ var. 7.0 9.3 9.4 9.35 0.5 0.5
 a 6.2 = BD +18° 4559 20 31 38.9 +18 19.1 9.0
 b 6.8 9.1 +17° 4374 20 32 31.2 +17 21.4 8.5
 c 7.3 9.7 +17 4368 20 31 8.9 +17 34.9 9.1
 d 7.8 +17 4371 20 31 22.2 +17 45.6 9.3
 e 8.2
 f 8.7
 g 9.0
 h 9.3
 k 9.6
 l 10.2
 m 10.2
 n 9.1 8.84 8.32 8.33 0.1 0.1
 o 9.4 9.3 9.4 = 9.35 0.5 0.5
 p 9.4 9.7

Low m
 h
 k
 l
 m
 n
 o
 p
 q
 r
 s
 t
 u
 v
 w
 x
 y
 z

Plate I 5712

✓ 11.28 k 1 r 11.98 11.82 11.85 0.3 0.3
 12.0 12.1 12.1 = 12.10 0.00 0.00
 11.32 r 3 l 11.62
 12.1

Plate I 14036

✓ 10.30 f 1 r 10.40 10.38 10.39 0.1 0.1
 11.1 11.2 11.1 = 11.15 0.5 0.5
 10.38 r 3 g 10.68
 11.1

Plate I 14037

✓ 7.58 a = 1.2 8.18
 8.4 r no 8.6

December 18, 1895.
Meas. of L. D. Nell's Algol var. (Cont.)

Plate I 12912 Sp
 \checkmark $\begin{matrix} 8.14 \\ 9.1 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.54 & 8.62 \\ 9.5 & 9.6 \\ 8.72 & 9.7 \end{matrix}$ $= 9.55$ $\begin{matrix} .04 & .04 \\ .05 & .05 \end{matrix}$
 b 4 v
 v i c
 v myft.

Plate I 4359
 \checkmark $\begin{matrix} 9.86 \\ 10.6 \end{matrix}$ $e = .4$ $L 10.26$
 v n.s. < 11.0

Plate I 13387
 \checkmark $\begin{matrix} 8.14 \\ 9.1 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.54 & 8.62 \\ 9.5 & 9.6 \\ 8.72 & 9.7 \end{matrix}$ $= 9.55$ $\begin{matrix} .04 & .04 \\ .05 & .05 \end{matrix}$
 b 3 v
 v 2 c

Plate I 11308
 Useless

Plate I 13060
 Useless

Plate I 7580 Sp
 \checkmark $\begin{matrix} 8.14 \\ 9.1 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.64 & 8.62 \\ 9.6 & 9.6 \\ 8.72 & 9.7 \end{matrix}$ $\begin{matrix} 8.63 & .01 & .01 \\ 9.60 & .02 & .02 \end{matrix}$
 b 5 v
 v i c
 Sp 4?

Plate I 12155
 \checkmark $\begin{matrix} 8.14 \\ 9.1 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.54 & 8.62 \\ 9.5 & 9.6 \\ 8.72 & 9.7 \end{matrix}$ $= 9.55$ $\begin{matrix} .04 & .04 \\ .05 & .05 \end{matrix}$
 b 4 v
 v i c

December 18, 1895.
 Meas. of L D Wells' new Algol var. (Cont.)

Plate I 1621 Sp

8.14		8.54	8.62	8.58	0.4	0.4
9.1	b 4 r	9.5	9.6	9.55	0.5	0.5
8.62		8.72				
9.6	r 1 c	9.7				

A 3 4370

4370 1 B

Plate I 1860

8.14		8.54	8.62	8.58	0.4	0.4
9.1	b 4 r	9.5	9.6	9.55	0.5	0.5
8.62		8.72				
9.6	r 1 c	9.7				

1st image

8.14		8.54	8.62	8.58	0.4	0.4
9.1	b 4 r	9.5	9.6	9.55	0.5	0.5
8.62		8.72				
9.6	r 1 c	9.7				

2nd image

A 3 4370

4370 1 B

Plate I 11476 Op

8.12		9.42
9.7	C = .3	L 9.42
	r ns.?	L 10.0?

A 3 4370

4370 1 B

Plate I 1257 Op

8.12		9.32
9.7	C = .2	L 9.32
	r ns.	L 9.9

Plate I 13511 Op

8.14		8.54	8.62	8.58	0.4	0.4
9.1	b 4 r	9.5	9.6	9.55	0.5	0.5
8.62		8.72				
9.6	r 1 c	9.7				

A 1 4370

4370 2 B

December 18, 1895.
Meas. of L. D. Wells' new Algol var. (Cont.)

Plate I 6852
 $\begin{array}{l} 8.14 \\ \sqrt{9.1} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} b4v \\ r2c \end{array} \quad \begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array} \begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} 8.53 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array}$

Plate I 6794
 $\begin{array}{l} 8.14 \\ \sqrt{9.1} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} b4v \\ r2c \end{array} \quad \begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array} \begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} 8.53 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array}$

Plate I 6539
 $\begin{array}{l} 7.58 \\ \sqrt{8.4} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} a=1.3 \\ rns \end{array} \quad \begin{array}{l} 8.28 \\ 9.7 \\ 9.7 \\ 9.7 \end{array} \quad \text{very poor plate.}$

Plate I 6921
 $\begin{array}{l} 8.14 \\ \sqrt{9.1} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} b3v \\ r2c \end{array} \quad \begin{array}{l} 8.44 \\ 9.4 \\ 8.72 \\ 9.7 \end{array} \begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} 8.48 \\ 9.45 \\ 9.45 \\ 9.7 \end{array} \begin{array}{l} .04 \\ .04 \\ .04 \\ .04 \end{array} \begin{array}{l} .04 \\ .04 \\ .04 \\ .04 \end{array}$

Plate I 11396
 $\begin{array}{l} 8.14 \\ \sqrt{9.1} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} b4v \\ r2c \end{array} \quad \begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array} \begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} 8.53 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array} \begin{array}{l} .01 \\ .01 \\ .01 \\ .01 \end{array}$

Plate I 11589
 $\begin{array}{l} 8.14 \\ \sqrt{9.1} \\ 8.52 \\ 9.5 \end{array} \begin{array}{l} b3v \\ r2c \end{array} \quad \begin{array}{l} 8.44 \\ 9.4 \\ 8.72 \\ 9.7 \end{array} \begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \\ 9.7 \end{array} \begin{array}{l} 8.48 \\ 9.45 \\ 9.45 \\ 9.7 \end{array} \begin{array}{l} .04 \\ .04 \\ .04 \\ .04 \end{array} \begin{array}{l} .04 \\ .04 \\ .04 \\ .04 \end{array}$

Plate I 11508

See next page

December 18 1895
 Meas. of L D Wells near Algol var. (Cont.)

Plate I 115.08

var	7.2	9.4	9.5	9.45	0.5	0.5
a	6.3					
b	6.9	9.1				
c	7.4	9.7				
d	7.8					
e	8.3					
f	8.9					
g	9.2					
h	9.5					
k	9.9					
l	10.2					
m	10.5					
✓ 8.14	6.3	9.4	9.5	9.45	0.4	0.4
✓ 8.52	9.5	9.7	9.7	9.7	0.5	0.5
✓ 9.5	9.5	9.7	9.7	9.7	0.5	0.5

Plate I 117.15

✓ 8.14	6.4	9.4	9.5	9.5	0.1	0.1
✓ 8.52	9.5	9.7	9.7	9.7	0.5	0.5
✓ 9.5	9.5	9.7	9.7	9.7	0.5	0.5

Plate I 131.58

✓ 8.14	6.3	9.4	9.5	9.45	0.4	0.4
✓ 8.52	9.5	9.7	9.7	9.7	0.5	0.5
✓ 9.5	9.5	9.7	9.7	9.7	0.5	0.5

Plate I 132.26

✓ 8.14	6.4	9.4	9.5	9.5	0.1	0.1
✓ 8.52	9.5	9.7	9.7	9.7	0.5	0.5
✓ 9.5	9.5	9.7	9.7	9.7	0.5	0.5

December 18, 1895-
 Meas. of L.D. Wells' new Algol var. (Cont.)

Plate I 1642
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b3v \\ v2c \end{array}$ $\begin{array}{l} 8.44 \\ 9.4 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} 8.48 \\ 9.45 \\ 9.45 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$

Plate I 4319
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b4v \\ v2c \end{array}$ $\begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} 8.53 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ .02 \\ .02 \end{array}$ $\begin{array}{l} .01 \\ .02 \\ .02 \end{array}$

Plate I 13218
 $\begin{array}{l} 8.72 \\ \downarrow 9.7 \\ 9.618 \\ 10.2 \end{array}$ $\begin{array}{l} c2v \\ v2d \end{array}$ $\begin{array}{l} 8.92 \\ 9.9 \\ 9.28 \\ 10.2 \end{array}$ $\begin{array}{l} 9.08 \\ 10.2 \\ 9.95 \end{array}$ $\begin{array}{l} 9.00 \\ 9.95 \\ 9.95 \end{array}$ $\begin{array}{l} .08 \\ .05 \\ .05 \end{array}$ $\begin{array}{l} .08 \\ .05 \\ .05 \end{array}$

Plate I 1897
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b4v \\ v2c \end{array}$ $\begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} 8.53 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ .02 \\ .02 \end{array}$ $\begin{array}{l} .01 \\ .02 \\ .02 \end{array}$

Plate I 1530
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b4v \\ v1c \end{array}$ $\begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.62 \\ 9.6 \\ 9.6 \end{array}$ $\begin{array}{l} 8.58 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$

Plate I 13136
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b3v \\ v2c \end{array}$ $\begin{array}{l} 8.44 \\ 9.4 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} 8.48 \\ 9.45 \\ 9.45 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$

Plate I 13103
 $\begin{array}{l} 8.14 \\ \downarrow 9.1 \\ 8.52 \\ 9.5 \end{array}$ $\begin{array}{l} b3v \\ v2c \end{array}$ $\begin{array}{l} 8.44 \\ 9.4 \\ 8.72 \\ 9.7 \end{array}$ $\begin{array}{l} 8.52 \\ 9.5 \\ 9.5 \end{array}$ $\begin{array}{l} 8.48 \\ 9.45 \\ 9.45 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$ $\begin{array}{l} .04 \\ .05 \\ .05 \end{array}$

December 18, 1895.
 Meas. of L. D. Wells near Algol var. (Cont.)

Plate I 13181
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b4r \\ r2c \end{matrix}$ $\begin{matrix} 8.54 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.52 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$

Plate I 13245
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b5r \\ r0c \\ dms. \end{matrix}$ $\begin{matrix} 8.64 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.65 \end{matrix}$ $\begin{matrix} .04 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .05 \end{matrix}$

Plate I 4324
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b4r \\ r2c \end{matrix}$ $\begin{matrix} 8.54 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.52 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$

Plate I 11368
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b4r \\ r2c \end{matrix}$ $\begin{matrix} 8.54 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.52 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$

Plate I 2371
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b3r \\ r2c \end{matrix}$ $\begin{matrix} 8.44 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.48 \\ 9.45 \end{matrix}$ $\begin{matrix} .04 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .05 \end{matrix}$

\checkmark Plate I 3946
 Useless

Plate I 11426
 \checkmark $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} b4r \\ r2c \end{matrix}$ $\begin{matrix} 8.54 \\ 8.72 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.52 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \end{matrix}$

December 18, 1895
 Meas. of L. D. Wells' algal var. (Cont.)

Plate I 4248
 Useless

Plate I 7028

~~8.14~~ ~~8.44~~ ~~8.52~~ ~~8.48~~ ~~0.4~~ ~~0.4~~
~~8.52~~ ~~8.44~~ ~~8.52~~ ~~8.48~~ ~~0.4~~ ~~0.4~~
~~8.52~~ ~~8.44~~ ~~8.52~~ ~~8.48~~ ~~0.4~~ ~~0.4~~
~~8.52~~ ~~8.44~~ ~~8.52~~ ~~8.48~~ ~~0.4~~ ~~0.4~~

a 60

b 6.7 9.1

c 7.3 9.7

d 7.8

e 8.3

f 8.7

g 9.0

h 9.3

k 9.6

l 10.0

✓ m 10.4

van 7.1 8.54 8.52 8.53 0.01 0.01
 9.5 9.5 9.50 00 00

Plate I 7289

~~8.14~~ ~~8.64~~ ~~8.62~~ ~~8.63~~ ~~.01~~ ~~.01~~
~~8.62~~ ~~8.64~~ ~~8.62~~ ~~8.63~~ ~~.01~~ ~~.01~~
~~8.62~~ ~~8.64~~ ~~8.62~~ ~~8.63~~ ~~.01~~ ~~.01~~

Plate I 2485

~~8.14~~ ~~8.54~~ ~~8.62~~ ~~8.58~~ ~~0.4~~ ~~0.4~~
~~8.62~~ ~~8.54~~ ~~8.62~~ ~~8.58~~ ~~0.4~~ ~~0.4~~
~~8.62~~ ~~8.54~~ ~~8.62~~ ~~8.58~~ ~~0.4~~ ~~0.4~~

December 18, 1895.
Sec Meas. of L. D. Well's new algal run (Cont.)

Plate I 3874
 \downarrow $\begin{matrix} 8.14 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} b5r \\ r1c \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.63 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} .01 \\ .02 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \\ .02 \end{matrix}$

Plate I 4202
 \downarrow $\begin{matrix} 8.14 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} b4r \\ r1c \end{matrix}$ $\begin{matrix} 8.54 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.58 \\ 9.55 \\ 9.55 \end{matrix}$ $\begin{matrix} .04 \\ .05 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .05 \\ .05 \end{matrix}$

Plate I 1504
 \downarrow $\begin{matrix} 8.14 \\ 8.62 \\ 9.5 \end{matrix}$ $\begin{matrix} b3r \\ r2c \end{matrix}$ $\begin{matrix} 8.44 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.48 \\ 9.45 \\ 9.45 \end{matrix}$ $\begin{matrix} .04 \\ .05 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .05 \\ .05 \end{matrix}$

Plate I 9085
 \downarrow $\begin{matrix} 8.14 \\ 8.62 \\ 9.6 \end{matrix}$ $\begin{matrix} b5r \\ r1c \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} 8.63 \\ 9.6 \\ 9.6 \end{matrix}$ $\begin{matrix} .01 \\ .02 \\ .02 \end{matrix}$ $\begin{matrix} .01 \\ .02 \\ .02 \end{matrix}$

\downarrow Plate I 6683 Sp
Wrong region?

\downarrow Plate I 4133 Sp
Too near edge of pl.

\downarrow Plate I 6623 Sp
on edge of pl.

\downarrow Plate I 3944 Sp.
on edge of plate

December 18, 1895
 Meas. of L D Wells' new Algol var (Cont.)

Plate I 13256

8.14	9.1	8.64	8.62	8.63	01	01
9.1	8.6	9.6	9.6	9.6	02	02
8.72	9.7					
a	5.1					
b	5.8	9.1				
c	6.4	9.7				
d	7.0					
e	7.5					
f	7.9					
g	8.2					
h	8.6					
k	8.9					
l	9.3					
m	9.8					
var	6.2	9.5	9.5	9.50	∞	∞

Plate I 13468

8.14	9.1	8.54	8.52	8.53	01	01
9.1	8.5	9.5	9.5	9.52	02	02
8.72	9.7					
a	6.0					
b	6.7	9.1				
c	7.3	9.7				
d	7.8					
e	8.2					
f	8.5					
g	9.0					
h	9.3					
k	9.6					
l	10.0					
m	10.4					
var	7.1	9.5	9.5	9.50	∞	∞

December 18, 1895.
 Meas. of L.D. Wells' Algol var. (Cont.)

Plate I 13629
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.5 \end{matrix}$ $\begin{matrix} b4v \\ v2c \end{matrix}$ $\begin{matrix} 8.54 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} 01 \\ 02 \\ 02 \end{matrix}$ $\begin{matrix} 01 \\ 02 \\ 02 \end{matrix}$

Plate I 13656
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.6 \end{matrix}$ $\begin{matrix} b5v \\ v1c \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.63 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 01 \\ 02 \\ 02 \end{matrix}$ $\begin{matrix} 01 \\ 02 \\ 02 \end{matrix}$

Plate I 13311
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.6 \end{matrix}$ $\begin{matrix} b4v \\ v1c \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.63 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$

Plate I 12908 Sp
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.6 \end{matrix}$ $\begin{matrix} b5v \\ v0c \\ v6d \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.72 \\ 9.7 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$ $\begin{matrix} 00 \\ 00 \\ 00 \end{matrix}$
 Sp. 7?

Plate I 12956 Sp
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.7 \end{matrix}$ $\begin{matrix} b5v \\ v0c \\ d ns. \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.72 \\ 9.7 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$

Plate I 13156 Sp
 \downarrow $\begin{matrix} 8.14 \\ 9.1 \\ 9.7 \end{matrix}$ $\begin{matrix} b5v \\ v0c \\ d ns. \end{matrix}$ $\begin{matrix} 8.64 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.72 \\ 9.7 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.68 \\ 9.6 \\ 9.7 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$ $\begin{matrix} 04 \\ 05 \\ 05 \end{matrix}$

December 18, 1895.
 Meas. of L. D. Wells' new Algol var. (Cont.)

Plate I 13038 Sp
 $\begin{array}{l} \downarrow \begin{array}{l} 8.14 \\ \cancel{9.1} \\ \cancel{8.62} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} b5v \\ v1c \end{array} \quad \begin{array}{l} \begin{array}{l} 8.64 \\ \cancel{9.6} \\ \cancel{8.72} \\ \cancel{9.7} \end{array} \quad \begin{array}{l} 8.62 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} 8.63 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \end{array}$

Plate I 12900 Sp.
 Useless

Plate I 13295-
 $\begin{array}{l} \downarrow \begin{array}{l} 8.14 \\ \cancel{9.1} \\ \cancel{8.62} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} b5v \\ v1c \end{array} \quad \begin{array}{l} \begin{array}{l} 8.64 \\ \cancel{9.6} \\ \cancel{8.72} \\ \cancel{9.7} \end{array} \quad \begin{array}{l} 8.62 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} 8.63 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \end{array}$

Plate I 13287
 $\begin{array}{l} \downarrow \begin{array}{l} 8.14 \\ \cancel{9.1} \\ \cancel{8.62} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} b5v \\ v1c \end{array} \quad \begin{array}{l} \begin{array}{l} 8.64 \\ \cancel{9.6} \\ \cancel{8.72} \\ \cancel{9.7} \end{array} \quad \begin{array}{l} 8.62 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} 8.63 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \end{array}$

Plate I 6968
 $\begin{array}{l} \downarrow \begin{array}{l} 8.14 \\ \cancel{9.1} \\ \cancel{8.62} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} b5v \\ v1c \end{array} \quad \begin{array}{l} \begin{array}{l} 8.64 \\ \cancel{9.6} \\ \cancel{8.72} \\ \cancel{9.7} \end{array} \quad \begin{array}{l} 8.62 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} 8.63 \\ \cancel{9.6} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \quad \begin{array}{l} .01 \\ \cancel{.01} \\ \cancel{.01} \end{array} \end{array}$

Plate I 6728 Sp
 $\begin{array}{l} \downarrow \begin{array}{l} 8.14 \\ \cancel{9.1} \\ \cancel{8.62} \\ \cancel{9.6} \end{array} \quad \begin{array}{l} b3v \\ v2c \end{array} \quad \begin{array}{l} \begin{array}{l} 8.44 \\ \cancel{9.4} \\ \cancel{8.72} \\ \cancel{9.7} \end{array} \quad \begin{array}{l} 8.32 \\ \cancel{9.5} \\ \cancel{9.5} \end{array} \quad \begin{array}{l} 8.48 \\ \cancel{9.45} \\ \cancel{9.45} \end{array} \quad \begin{array}{l} .04 \\ \cancel{.04} \\ \cancel{.04} \end{array} \quad \begin{array}{l} .04 \\ \cancel{.04} \\ \cancel{.04} \end{array} \end{array}$

Plate I 1663 Sp

Plate I 6751 Sp.
 too poor

December 18, 1895
 Meas. of L. D. Wells' run. (Cont.)

Plate I 6781 sp.
 $b = 3$
 $r = 5$, L ~~9.4~~

Plate I 13304
 $b = 3$ r ~~9.4~~ ~~9.5~~ ~~9.45~~ ~~0.4~~ ~~0.4~~
 $r = 2$ c ~~9.72~~ ~~9.7~~

Plate I 13166
 Too poor

Plate I 1340 sp.
 $b = 4$ r ~~9.4~~ ~~9.6~~ ~~9.55~~ ~~0.4~~ ~~0.4~~
 $r = 1$ c ~~9.72~~ ~~9.7~~

Plate I 1304 sp.
 Too poor

Plate I 4445
 $b = 5$ r ~~9.64~~ ~~9.62~~ ~~9.63~~ ~~0.1~~ ~~0.1~~
 $r = 1$ c ~~9.72~~ ~~9.7~~

Plate I 3887
 $b = 5$ r ~~9.64~~ ~~9.62~~ ~~9.63~~ ~~0.1~~ ~~0.1~~
 $r = 1$ c ~~9.72~~ ~~9.7~~

Plate I 3984
 $b = 4$ r ~~9.54~~ ~~9.62~~ ~~9.58~~ ~~0.4~~ ~~0.4~~
 $r = 1$ c ~~9.72~~ ~~9.7~~

Dec. 18, 1895.
Well's Celvol var Cont,

Plate I 1969
 $\begin{array}{l} b\ 3\ v \\ r\ 3\ c \end{array}$
 $\begin{array}{ccccc} 8.44 & 8.44 & 8.42 & 8.43 & .01 & .01 \\ 9.4 & 9.4 & 9.4 & 9.4 & 9.4 & 9.4 \\ 8.72 & & & & & \end{array}$

Plate I 3876
 $\begin{array}{l} b\ 3\ v \\ r\ 3\ c \end{array}$
 $\begin{array}{ccccc} 8.44 & 8.44 & 8.42 & 8.43 & .01 & .01 \\ 9.4 & 9.4 & 9.4 & 9.4 & 9.4 & 9.4 \\ 8.72 & & & & & \end{array}$

Plate I 1370
 $\begin{array}{l} b\ 4\ v \\ r\ 2\ c \end{array}$
 $\begin{array}{ccccc} 8.64 & 8.62 & 8.63 & .01 & .01 \\ 9.5 & 9.5 & 9.5 & 9.5 & 9.5 \\ 8.72 & & & & \end{array}$

Plate I 12994 sp
 $\begin{array}{l} L = .1 \\ r\ ns. \end{array}$
 $\begin{array}{l} 9.28 \\ 10.2 \end{array}$
 $\begin{array}{l} 9.38 \\ 10.3 \end{array}$

Plate II 11415
 $\begin{array}{l} b\ 4\ v \\ r\ 1\ c \end{array}$
 $\begin{array}{ccccc} 8.54 & 8.62 & 8.63 & .04 & .04 \\ 9.5 & 9.5 & 9.5 & 9.5 & 9.5 \\ 8.72 & & & & \end{array}$

Plate I 2084
 $\begin{array}{l} b\ 5\ v \\ r\ 1\ c \end{array}$
 $\begin{array}{ccccc} 8.64 & 8.62 & 8.63 & .01 & .01 \\ 9.6 & 9.6 & 9.6 & 9.6 & 9.6 \\ 8.72 & & & & \end{array}$

Plate I 5314
 $\begin{array}{l} b\ 5\ v \\ r\ 1\ c \end{array}$
 $\begin{array}{ccccc} 8.64 & 8.62 & 8.63 & .01 & .01 \\ 9.6 & 9.6 & 9.6 & 9.6 & 9.6 \\ 8.72 & & & & \end{array}$

December 18, 1895
 Mass of Will's new algal run.

↓ Plate I 4803
 Plate too poor

Plate I 4952
 ↓ $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.44 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.48 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} .04 \\ .04 \\ .04 \end{matrix}$
 b3v
 v2c

↓ Plate I 7281
 Plate too poor

Plate I 9274
 ↓ $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.44 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.48 \\ 9.5 \\ 9.7 \end{matrix}$ $\begin{matrix} .04 \\ .04 \\ .04 \end{matrix}$
 b3v
 v2c

Plate I 7246
 ↓ $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.64 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.63 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} .01 \\ .01 \\ .01 \end{matrix}$
 b5v
 v1c

Plate I 7206
 ↓ $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.54 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.52 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.53 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} .01 \\ .01 \\ .01 \end{matrix}$
 b4v
 v2c

Plate I 1827 Rps
 Too poor

Plate I 4844 pb
 ↓ $\begin{matrix} 8.14 \\ 8.52 \\ 9.5 \end{matrix}$ $\begin{matrix} 8.54 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.62 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} 8.58 \\ 9.4 \\ 9.7 \end{matrix}$ $\begin{matrix} .04 \\ .04 \\ .04 \end{matrix}$
 b4v
 v1c

December 18, 1895
 Meas. of Wells' new algol var

Plate F 4970

8.14	8.54	8.52	8.53	.01	.01
8.14	8.54	8.52	8.53	.01	.01
8.52	8.72	9.5	9.52	0.01	0.01
8.52	8.72	9.5	9.52	0.01	0.01

D

December 19, 1895
 Meas. of L. D. Wells' New Algol Var (Continued).

Plate-b 8160
 ↓ 9.1 b 4 v 9.5 9.5 9.50 00 00
 9.5 v 2 c 9.7

Plate-b 8221
 ↓ 11.1 f 2 v 11.3 11.1 11.20 10 10
 11.1 v 3 g 11.4

Plate-b 8299
 ↓ 1st image 9.7 c 1 v 9.8 9.7 9.75 05 05
 9.7 v 5 d 10.2
 ↓ 2nd " 9.1 b 6 v 9.7 9.7 9.70 00 00
 9.7 v 0 c 9.7
 9.7 v 5 d 10.2
 ↓ 3rd " 9.1 b 6 v 9.7 9.6 9.65 05 05
 9.6 v 1 c 9.7
 ↓ 4th " 9.1 b 5 v 9.6 9.5 9.55 05 05
 9.5 v 2 c 9.7

Plate-b 8302
 ↓ 9.1 b 3 v 9.4 9.4 9.40 00 00
 9.4 v 3 c 9.7

Plate-b 8290
 ↓ 9.1 b 3 v 9.4 9.4 9.40 00 00
 9.4 v 3 c 9.7

December 19, 1895
 Meas. of L. D. Wells's new Algol Var. (Cont.)

Plate-68244

↓ 9.1 b 4 v 9.5 9.5 9.50 ∞ ∞
 9.5 v 2 c 9.7

Plate-68184¹

↓ 9.1 b 3 v 9.4 9.4 9.40 ∞ ∞
 9.4 v 3 c 9.7

Plate-68188

↓ 9.1 b 4 v 9.5 9.5 9.50 ∞ ∞
 9.5 v 2 c 9.7

↓ Plate-68575

Plate too poor.

Plate-B 1706 sp

↓ ~~8.4~~ ^{7.58} a = .3 ~~8.38~~
 v n s. ~~8.8~~

↓ Plate-B 713 sp

Plate too poor.

↓ Plate-B 718 sp

Plate too poor

↓ Plate-B 761 sp.

Plate too poor.

December 19, 1895.

Meas of L. D. Wells' New Algol Var. (Cont.)

✓ Plate-B 778 sp.
Plate too poor.

✓ Plate-B 1612 sp.
Plate too poor.

✓ Plate-B 2858 sp.
Plate too poor.

8.14
✓ ~~8.14~~
Plate-B 2910 sp.
b = .3 L 8.44
v. n. a. L ~~9.4~~

✓ Plate-B 2951 sp.
Plate too poor.

8.14
✓ 9.1
Plate-I 1470 sp.
b = .3 ~~9.4~~ 8.44
v = .1 = ~~9.2~~ 8.34
c n. a.

8.14
✓ ~~9.1~~
Plate-I 1632 sp.
b 5 v ~~9.6~~ 8.62 8.63 .01 .01
v 1 c ~~9.7~~ 8.72 9.62 .01 .01

8.14
✓ ~~9.1~~
Plate-I 2185 sp.
b 4 v ~~9.5~~ 8.54 8.54 .01 .01
v 2 c ~~9.7~~ 8.72 9.55 .01 .01

December 19, 1895-
Meas of L.D. Wells' New Algol Var. (Cont.)

Plate I 2350 sp.
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.62} \end{array}$ $\begin{array}{l} \cancel{9.6} \\ \cancel{9.6} \end{array}$ $\begin{array}{l} 8.64 \\ 8.62 \end{array}$ $\begin{array}{l} 8.63 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 5 v
 v 1 c

Plate I 2542 sp.
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.62} \end{array}$ $\begin{array}{l} \cancel{9.6} \\ \cancel{9.6} \end{array}$ $\begin{array}{l} 8.64 \\ 8.62 \end{array}$ $\begin{array}{l} 8.63 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 5 v
 v 1 c

Plate I 4739 sp.
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.52} \end{array}$ $\begin{array}{l} \cancel{9.5} \\ \cancel{9.5} \end{array}$ $\begin{array}{l} 8.54 \\ 8.52 \end{array}$ $\begin{array}{l} 8.53 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 4 v
 v 2 c

Plate I 7138
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.52} \end{array}$ $\begin{array}{l} \cancel{9.5} \\ \cancel{9.5} \end{array}$ $\begin{array}{l} 8.64 \\ 8.52 \end{array}$ $\begin{array}{l} 8.58 \\ 9.5 \end{array}$ $\begin{array}{l} .06 \\ 9.5 \end{array}$ $\begin{array}{l} .06 \\ \infty \end{array}$
 b 5 v
 v 2 c

Plate I 7295
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.52} \end{array}$ $\begin{array}{l} \cancel{9.5} \\ \cancel{9.5} \end{array}$ $\begin{array}{l} 8.64 \\ 8.52 \end{array}$ $\begin{array}{l} 8.53 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 4 v
 v 2 c

Plate I 7425
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.52} \end{array}$ $\begin{array}{l} \cancel{9.5} \\ \cancel{9.5} \end{array}$ $\begin{array}{l} 8.54 \\ 8.52 \end{array}$ $\begin{array}{l} 8.53 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ 9.5 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 4 v
 v 2 c

Plate I 7542 sp.
 $\begin{array}{l} \sqrt{8.14} \\ \sqrt{8.62} \end{array}$ $\begin{array}{l} \cancel{9.6} \\ \cancel{9.6} \end{array}$ $\begin{array}{l} 8.64 \\ 8.62 \end{array}$ $\begin{array}{l} 8.63 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ 9.6 \end{array}$ $\begin{array}{l} .01 \\ \infty \end{array}$
 b 5 v
 v 1 c

December 19, 1895-
Meas of L. D. Wells' new Algol Var. (Cont.)

Plate-I 8967
 $\begin{array}{l} \text{b } 4 \text{ v} \\ \text{v } 2 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.54 \\ 8.52 \\ 9.5 \end{array}$
 $\begin{array}{l} 8.54 \\ 9.5 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.52 \\ 9.5 \\ 9.52 \\ 9.5 \end{array}$
 $\begin{array}{l} 4.53 \\ 01 \\ 01 \\ 01 \end{array}$
 $\begin{array}{l} 01 \\ 01 \\ 01 \\ 01 \end{array}$

Plate-I 9423
 $\begin{array}{l} \text{b } 3 \text{ v} \\ \text{v } 2 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.52 \\ 9.5 \end{array}$
 $\begin{array}{l} 8.44 \\ 9.5 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.52 \\ 9.5 \\ 9.45 \\ 9.5 \end{array}$
 $\begin{array}{l} 8.48 \\ 04 \\ 04 \\ 04 \end{array}$
 $\begin{array}{l} 04 \\ 04 \\ 04 \\ 04 \end{array}$

Plate-I 9761
 $\begin{array}{l} \text{b } 5 \text{ v} \\ \text{v } 1 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.64 \\ 9.6 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.62 \\ 9.6 \\ 9.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.63 \\ 01 \\ 01 \\ 01 \end{array}$
 $\begin{array}{l} 01 \\ 01 \\ 01 \\ 01 \end{array}$

Plate-I 9935 sp.
 $\begin{array}{l} \text{b } 5 \text{ v} \\ \text{v } 1 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.64 \\ 9.6 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.62 \\ 9.6 \\ 9.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.63 \\ 01 \\ 01 \\ 01 \end{array}$
 $\begin{array}{l} 01 \\ 01 \\ 01 \\ 01 \end{array}$

Plate-I 11322 sp.
 $\begin{array}{l} \text{b } 5 \text{ v} \\ \text{v } 1 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.64 \\ 9.6 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.62 \\ 9.6 \\ 9.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.63 \\ 01 \\ 01 \\ 01 \end{array}$
 $\begin{array}{l} 01 \\ 01 \\ 01 \\ 01 \end{array}$

Plate-I 11505 sp.
 $\begin{array}{l} \text{b } 5 \text{ v} \\ \text{v } 1 \text{ c} \end{array}$
 $\begin{array}{l} 8.14 \\ 8.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.64 \\ 9.6 \\ 8.72 \\ 9.7 \end{array}$
 $\begin{array}{l} 8.62 \\ 9.6 \\ 9.62 \\ 9.6 \end{array}$
 $\begin{array}{l} 8.63 \\ 01 \\ 01 \\ 01 \end{array}$
 $\begin{array}{l} 01 \\ 01 \\ 01 \\ 01 \end{array}$

Plate-I 12928 sp.
 $\begin{array}{l} \text{c} = .4 \\ \text{v } n \text{ v.} \end{array}$
 $\begin{array}{l} 8.72 \\ 9.12 \\ 9.52 \\ 10.1 \end{array}$

December 19, 1895-
 Meas. of L.D. Mell's new Algol Var. (Cont-)

✓ Plate-I 11944 sp.
 Plate- too poor.

Plate-I 13085 sp.
 $\begin{array}{r} 8.14 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 8.54 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 8.53 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$
 b 4 v $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.52 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$
 v 2 c $\begin{array}{r} 9.7 \\ \downarrow \end{array}$ $\begin{array}{r} 9.7 \\ \downarrow \end{array}$

Plate-I 13427
 $\begin{array}{r} 8.14 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 8.54 \\ \downarrow \end{array}$ $\begin{array}{r} 8.62 \\ \downarrow \end{array}$ $\begin{array}{r} 8.63 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$
 b 5 v $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.62 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$
 v 1 c $\begin{array}{r} 9.7 \\ \downarrow \end{array}$ $\begin{array}{r} 9.7 \\ \downarrow \end{array}$

Plate-I 13541
 $\begin{array}{r} 8.14 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 8.54 \\ \downarrow \end{array}$ $\begin{array}{r} 8.42 \\ \downarrow \end{array}$ $\begin{array}{r} 8.48 \\ \downarrow \end{array}$ $\begin{array}{r} 06 \\ \downarrow \end{array}$ $\begin{array}{r} 06 \\ \downarrow \end{array}$
 b 4 v $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.45 \\ \downarrow \end{array}$ $\begin{array}{r} 05 \\ \downarrow \end{array}$ $\begin{array}{r} 05 \\ \downarrow \end{array}$
 v 3 c $\begin{array}{r} 9.7 \\ \downarrow \end{array}$ $\begin{array}{r} 9.7 \\ \downarrow \end{array}$

✓ Plate-I 8715 sp.
 On edge of plate

Plate-I 12109 sp.
 $\begin{array}{r} 8.14 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 8.54 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 8.48 \\ \downarrow \end{array}$ $\begin{array}{r} 04 \\ \downarrow \end{array}$ $\begin{array}{r} 04 \\ \downarrow \end{array}$
 b 3 v $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.45 \\ \downarrow \end{array}$ $\begin{array}{r} 05 \\ \downarrow \end{array}$ $\begin{array}{r} 05 \\ \downarrow \end{array}$
 v 2 c $\begin{array}{r} 9.7 \\ \downarrow \end{array}$ $\begin{array}{r} 9.7 \\ \downarrow \end{array}$

Plate-I 2527
 $\begin{array}{r} 8.14 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 8.54 \\ \downarrow \end{array}$ $\begin{array}{r} 8.52 \\ \downarrow \end{array}$ $\begin{array}{r} 8.53 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$ $\begin{array}{r} 01 \\ \downarrow \end{array}$
 b 4 v $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.5 \\ \downarrow \end{array}$ $\begin{array}{r} 9.57 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$ $\begin{array}{r} 02 \\ \downarrow \end{array}$
 v 2 c $\begin{array}{r} 9.7 \\ \downarrow \end{array}$ $\begin{array}{r} 9.7 \\ \downarrow \end{array}$

December 19, 1895

Plate I 4686 sp.

Plate - I 13786

Plate - I 13094

Plate C 8612

Plate C 86.06

Plate C 8604.

Plate C. 8611

December 19, 1895.
 Meas. of L.D. Wells' new Algol run. (Cont.)

Plate C 8607

$\begin{array}{r} 8.72 \\ 9.7 \\ 9.08 \\ 10.0 \end{array}$ $\begin{array}{r} 10.1 \\ 10.0 \\ 10.2 \end{array}$ $\begin{array}{r} 9.12 \\ 9.08 \\ 9.10 \end{array}$ $\begin{array}{r} .02 \\ .02 \\ .02 \end{array}$
 $C 4 v$ 10.1 $10.0 = 10.05$ $.05$ $.05$
 $v 2 d$ 10.2

Plate C 8609

$\begin{array}{r} 8.72 \\ 9.7 \\ 9.08 \\ 10.0 \end{array}$ $\begin{array}{r} 10.0 \\ 9.9 \\ 10.2 \end{array}$ $\begin{array}{r} 9.02 \\ 8.98 \\ 9.00 \end{array}$ $\begin{array}{r} .02 \\ .02 \\ .02 \end{array}$
 $C 3 v$ 10.0 $9.9 = 9.95$ $.05$ $.05$
 $v 3 d$ 10.2

Plate C 8605-

$\begin{array}{r} 8.72 \\ 9.7 \\ 9.08 \\ 10.1 \end{array}$ $\begin{array}{r} 10.2 \\ 10.1 \\ 10.2 \end{array}$ $\begin{array}{r} 9.20 \\ 9.18 \\ 9.20 \end{array}$ $\begin{array}{r} .02 \\ .02 \\ .02 \end{array}$
 $C 5 v$ 10.2 $10.1 = 10.15$ $.05$ $.05$
 $v 1 d$ 10.2

Plate C 8610

$\begin{array}{r} 8.72 \\ 9.7 \\ 9.08 \\ 10.1 \end{array}$ $\begin{array}{r} 10.0 \\ 9.9 \\ 10.2 \end{array}$ $\begin{array}{r} 9.02 \\ 8.98 \\ 9.00 \end{array}$ $\begin{array}{r} .02 \\ .02 \\ .02 \end{array}$
 $C 3 v$ 10.0 $9.9 = 9.95$ $.05$ $.05$
 $v 3 d$ 10.2

Plate C 8608

$\begin{array}{r} 8.72 \\ 9.7 \\ 9.08 \\ 10.0 \end{array}$ $\begin{array}{r} 10.0 \\ 10.0 \\ 10.2 \end{array}$ $\begin{array}{r} 9.02 \\ 9.08 \\ 9.05 \end{array}$ $\begin{array}{r} .03 \\ .03 \\ .03 \end{array}$
 $C 3 v$ 10.0 $10.0 = 10.00$ $.00$ $.00$
 $v 2 d$ 10.2

Plate I 14079

$\begin{array}{r} 9.218 \\ 9.22 \\ 9.46 \\ 10.2 \end{array}$ $\begin{array}{r} 9.48 \\ 9.46 \\ 9.46 \\ 10.6 \end{array}$ $\begin{array}{r} 9.47 \\ 9.46 \\ 9.47 \\ 10.2 \end{array}$ $\begin{array}{r} .01 \\ .01 \\ .01 \\ .01 \end{array}$
 $d 2 v$ 10.4 $10.2 = 10.30$ $.10$ $.10$
 $v 4 e$ 10.6

Plate I 14081

$\begin{array}{r} 8.12 \\ 9.218 \\ 9.22 \\ 9.36 \\ 10.1 \end{array}$ $\begin{array}{r} 9.32 \\ 9.28 \\ 9.28 \\ 9.86 \\ 10.6 \end{array}$ $\begin{array}{r} 9.32 \\ 9.28 \\ 9.28 \\ 9.86 \\ 10.6 \end{array}$ $\begin{array}{r} .04 \\ .04 \\ .04 \\ .04 \\ .04 \end{array}$
 $C 6 v$ 10.3 10.2 $10.1 = 10.20$ $.10$ $.10$
 $v 0 d$ 10.2
 $v 5 e$ 10.6

December 19, 1895.
 Meas. of L.D. Well's new Algol var. (Cont).

Plate I 14080

Plate pos. C T v ns,

Plate I 14061

8.14
~~9.1~~
~~8.62~~
~~9.1~~
~~8.74~~
~~8.62~~
~~9.1~~
~~8.68~~
~~9.1~~
~~9.65~~
~~0.6~~
~~0.5~~
~~0.6~~
~~0.5~~

Plate I 13095- Sp

8.14
~~9.1~~
~~8.62~~
~~9.1~~
~~8.74~~
~~8.62~~
~~9.1~~
~~8.68~~
~~9.1~~
~~9.65~~
~~0.6~~
~~0.5~~
~~0.6~~
~~0.5~~

Plate I 13487 Sp

8.14
~~9.1~~
~~8.62~~
~~9.1~~
~~8.74~~
~~8.62~~
~~9.1~~
~~8.63~~
~~9.1~~
~~9.60~~
~~0.1~~
~~0.2~~
~~0.1~~
~~0.2~~

Sp. Cl A well defined Hydrogen lines $H\gamma$, $H\delta$,
 $H\epsilon$, $H\zeta$, and $H\eta$ well defined and dark.

Plate I 13606

8.14
~~9.1~~
~~8.62~~
~~9.1~~
~~8.74~~
~~8.62~~
~~9.1~~
~~8.44~~
~~8.42~~
~~9.1~~
~~9.40~~
~~0.1~~
~~0.2~~
~~0.1~~
~~0.2~~

Plate I 18247

8.14
~~9.1~~
~~8.62~~
~~9.1~~
~~8.74~~
~~8.62~~
~~9.1~~
~~8.44~~
~~8.42~~
~~9.1~~
~~9.40~~
~~0.1~~
~~0.2~~
~~0.1~~
~~0.2~~

December 20, 1895.
Well's new Algol var. Pots Free.

Plate I 13487 Sp.

Examine of spectrum.

Sp. cl. A apparently does not differ from other stars of class A in same region and of about the same brightness. Lines $H\gamma$, $H\delta$, $H\epsilon$, & $H\zeta$ seen.

December 21, 1895.

Plate A 855

Well's Algol var.

8.14
9.1 b 4 r 9.5 9.5 = 9.50 .00 .00
9.5 v 2 c 9.7

Plate I 2553

8.14
9.1 b 5 r 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7

December 20, 1895.
Exam of lines in spectrum of
Nova Perseus

Plate B 1818 comp with Chart pl. B 1954
Trace of $H\beta$
faint $H\gamma$
 $H\delta$?
 $H\delta$ 3 $H\epsilon$ = .4
 $H\epsilon$ strongest bright line.

December 20, 1895.
 Meas. of Nova Centauri (Cont. from p 133)

Plate C 8630

10.0

$k = .2$

N ns. < 10.2

Plate C 8631

10.2

$l = .1$

N ns. < 10.3

Dec. 21, 1895

Plate I 14099

10.2

$l = .4$

N ns. < 10.6

Plate C 8644 ~~41~~

9.7

$k = .3$

~~N~~ ns. < 10.0

Plate C 8643

10.2

$l = .1$

N ns. < 10.3

Plate I 14112

10.2

$l = .2$

N ns. < 10.4

Plate I. 1340f (second meas.)

8.14	8.74	8.72	8.73	01	01
b6r	8.72	7.7	9.72	00	00
voc	8.72	7.7	9.72	00	00
dns.					

Plate I .140.36 (Second meas. .02 .04 .02
e s r 10.86 10.30 10.86 10.34 02 04 02
r o f 11.1 11.1 10.9 = 17.03 07 07 13
f s g 10.30 10.1 10.68 11.4

December 24, 1895

Exam. of spectrum of α Cephei.

Plate I 14159.

Sp. Cl. A, hydrogen lines not quite ~~the~~ normal intensity.

January 2, 1896.

Meas. of prismatic companions of ^{Brighter} Companion
stars for Nova Monina.

Plate B10769

prism. comp. a. 11.1 m 2 a 11.3 11.4 = 11.35 .05 .05
11.4 a 3 n 11.7

$$\begin{array}{r} 4.35 \\ 4.42 \\ \hline 4.38 \end{array} \quad \begin{array}{r} .03 \\ .04 \end{array}$$

prism. comp. b 11.7 m 1 b 11.8 11.8 = 11.80 .00 .00
11.8 b 2 o 12.0

$$\begin{array}{r} 4.82 \\ 4.79 \\ \hline 4.80 \end{array} \quad \begin{array}{r} 4.24 \\ 4.21 \\ \hline 4.22 \end{array} \quad \begin{array}{r} .02 \\ .01 \end{array}$$

prism. comp. c 12.0 o 2 c 12.2 12.0 = 12.10 .10 .10
12.0 c 2 p 12.2

$$\begin{array}{r} 5.19 \\ 5.09 \\ \hline 5.14 \end{array} \quad \begin{array}{r} 4.23 \\ 4.13 \\ \hline 4.18 \end{array} \quad \begin{array}{r} .05 \\ .05 \end{array}$$

Plate B 10777

prism. comp. a 10.3 k 3 a 10.6 10.7 = 10.65 .05 .05
10.7 a 1 b 10.8

$$\begin{array}{r} 3.61 \\ 3.73 \\ \hline 3.67 \end{array} \quad \begin{array}{r} .06 \\ .06 \end{array}$$

prism. comp. b 10.8 k 3 b 11.1 11.0 = 11.05 .05 .05
11.0 b 1 m 11.1

$$\begin{array}{r} 4.13 \\ 4.05 \\ \hline 4.09 \end{array} \quad \begin{array}{r} 3.55 \\ 3.47 \\ \hline 3.51 \end{array} \quad \begin{array}{r} .04 \\ .04 \end{array}$$

prism. comp. c 11.1 m 2 c 11.3 11.6 = 11.45 .15 .15 c barely visible n = 1
11.6 c 1 n 11.7

$$\begin{array}{r} 4.35 \\ 4.62 \\ \hline 4.48 \end{array} \quad \begin{array}{r} 3.39 \\ 3.66 \\ \hline 3.52 \end{array} \quad \begin{array}{r} .13 \\ .14 \end{array}$$

Plate B10852

prism. comp. a 11.1 m 1 a 11.2 11.4 = 11.30 .10 .10
11.4 a 3 n 11.7

$$\begin{array}{r} 4.25 \\ 4.42 \\ \hline 4.34 \end{array} \quad \begin{array}{r} .09 \\ .08 \end{array}$$

prism. comp. b 11.1 m 4 b 11.5 11.7 11.7 = 11.63 .13 .07 .07
11.7 b 0 n 11.7
11.7 b 3 o 12.0

$$\begin{array}{r} 4.55 \\ 4.72 \\ \hline 4.69 \end{array} \quad \begin{array}{r} 3.97 \\ 4.14 \\ \hline 4.07 \end{array} \quad \begin{array}{r} .10 \\ .07 \\ .04 \end{array}$$

January 2, 1896
 Meas. of pris. comp. of comp. star for Nova Hornu (C)

Plate B10852

$$\begin{array}{r} \text{pris. comp. } c_{120} 0 \ 3 \ c_{123} \ 12.2 = 12.25 \ .05 \ .05 \\ 12.2 \ c \ 0 \ p \ 12.2 \\ \text{q n.s.} \end{array}$$

Plate B10935

$$\begin{array}{r} \text{pris. comp. } a_{11} m \ 1 \ a \ 11.2 \ 11.3 = 11.25 \ .05 \ .05 \\ 11.3 \ a \ 4 \ \# n \ 11.7 \end{array}$$

$$\begin{array}{r} \text{pris. comp. } b_{11} m \ 4 \ b \ 11.5 \ 11.7 \ 11.7 = 11.63 \ .13 \ .07 \ .07 \\ 11.7 \ b \ 0 \ n \ 11.7 \\ 11.7 \ b \ 3 \ 0 \ 12.0 \end{array}$$

$$\begin{array}{r} \text{pris. comp. } c_{120} 0 \ 2 \ c_{122} \ 12.2 \ 12.1 = 12.15 \ .05 \ .05 \\ 12.1 \ c \ 1 \ p \ 12.2 \end{array}$$

January 7, 1894⁶
 Mens. of Wells new Algol rev. +17°43'67 (Cont.)

Plate I 14148

Useless. Fogged

Plate I 14174

Useless. Fogged

Plate I 14175

8.14
 9.1 b 3 r 9.4 9.4 = 9.40 .00 .00
 9.4 r 3 c 9.7

Plate C 87285

8.72
 9.7 c 5 r 10.2 10.1 = 10.15 .05 .05
 10.1 r 1 d 10.2

Plate C 8728

9.28
 10.2 d 5 r 10.7 10.6 = 10.65 .05 .05
 10.6 r 0 e 10.6

f n.s.

Plate C 8727

Useless

Plate C 8726

9.28
 10.2 d 1 r 10.3 10.1 = 10.20 .10 .10
 9.36
 10.1 r 5 e 10.6

9.28
 10.2 d 0 r 10.2 10.1 = 10.15 .05 .05
 9.36
 10.1 r 5 e 10.6

January 7 1896.
+17° 4367 (Cent').

Plate C 8726

2 nd image	10.2	d 1 v	10.3	10.1 = 12.0	.10	.10
	10.1	v 5 e	10.6			
7 image	10.2	d 1 v	10.3	10.2 = 10.25	.05	.05
	10.2	v 4 e	10.6			
3 rd "	10.2	d 2 v	10.4	10.2 = 10.30	.10	.10
	10.2	v 4 e	10.6			
8 image	10.2	d 1 v	10.3	10.2 = 10.25	.05	.05
	10.2	v 4 e	10.6			
5 "	10.2	d 1 v	10.3	10.2 = 10.25	.05	.05
	10.2	v 4 e	10.6			
4 "	10.2	d 1 v	10.3	10.2 = 10.25	.05	.05
	10.2	v 4 e	10.6			

Plate C 8724

9.7	c 4 v	10.1	10.0 = 10.05	.05	.05
10.0	v 2 d	10.2			

Plate C 8691

1 st image	9.1	b 5 v	9.6	9.5 = 9.55	.05	.05
	9.5	v 2 c	9.7			
3 rd image	9.1	b 5 v	9.6	9.6 = 9.60	.00	.00
	9.6	v 1 c	9.7			
2 image	9.1	b 5 v	9.6	9.6 = 9.60	.00	.00
	9.6	v 1 c	9.7			
4 image	9.1	b 5 v	9.6	9.5 = 9.55	.05	.05
	9.5	v 2 c	9.7			

+17° 4367 January 7, 1896.
(Contd.)

Plate C8690
Useless

Plate C8689
8.14 8.44 8.52 = 8.38 .06 .06
9.1 b 3 v 9.4 9.3 = 9.35 .05 .05
9.3 v 4 c 9.7

Plate C8688
Useless

Plate C8666
8.14 8.64 8.52 = 8.58 .06 .06
9.1 b 5 v 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7

Plate C8665
8.14 8.54
9.1 b 4 v 9.5 = 9.5
c n s

1 image 8.14 8.64 8.52 = 8.58 .06 .06
9.1 b 5 v 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7
2 image 8.14 8.54 8.42 = 8.48 .06 .06
9.1 b 4 v 9.5 9.4 = 9.45 .05 .05
9.4 v 3 c 9.7

Plate C87281
8.14 8.64 8.52 = 8.58 .06 .06
1st image 9.1 b 5 v 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7
3 image 8.14 8.64 8.52 = 8.58 .06 .06
9.1 b 5 v 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7

January 7, 1896.
+17° 4367

Plate C 8704

2 image 9.1 b 4 r 9.5 9.4 = 9.45 .05 .05

9.4 r 3 c 9.7

4 image 9.1 b 4 r 9.5 9.4 = 9.45 .05 .05

9.4 r 3 c 9.7

Plate C 8708

9.1 b 4 r 9.5 9.5 = 9.50 .00 .00

9.5 r 2 c 9.7

Plate C 8709

9.1 b 5 r 9.6 9.6 = 9.60 .00 .00

9.6 r 1 c 9.7

9.1 b 4 r 9.5 9.5 = 9.50 .00 .00

9.5 r 2 c 9.7

9.1 b 4 r 9.5 9.5 = 9.50 .00 .00

9.5 r 2 c 9.7

9.1 b 5 r 9.6 9.5 = 9.55 .05 .05

9.5 r 2 c 9.7

9.1 b 4 r 9.5 9.5 = 9.50 .00 .00

9.5 r 2 c 9.7

9.1 b 4 r 9.5 9.5 = 9.50 .00 .00

9.5 r 2 c 9.7

Plate 8717

useless

+17° 4367 January 7, 1896

Plate C 8718

8.14
9.1 b 4 r 95.95 = 9.50 .00 .00
9.5 v 2 c 9.7

Plate C 8720

8.14
9.1 b 5 r 9.6 9.5 = 9.55 .05 .05
9.5 v 2 c 9.7

Summary 8. 1896.

Exam. of plates of ^{SD}~~SD~~ -10° 1267 9.7. for Proper Scale

^{SD}~~SD~~ -10° 1267 shows no evidence of variation on plates

# Plate	Date	Comparison
---------	------	------------

I 66	Oct. 18 1889	a 3, 2 b
------	--------------	----------

I 2629	Dec. 28 1890	a 3, 2 b
--------	--------------	----------

I 3378	April 1, 1891	a 3, 2 b
--------	---------------	----------

I 5339	Jan. 5 1892	a 3, 3 b
--------	-------------	----------

I 5621	Feb. 13, 1892	a 3, 3 b
--------	---------------	----------

I 4701	Nov. 3, 1891	a 4, 2 b
--------	--------------	----------

being always fainter than "a" which = SD -10° 1268 9.4
and brighter than ^{b which =} SD -10° 1263 9.5

M. Fleming.

January 8, 1896.
Exam. of photographs of $\text{SD}-12^{\circ}1083\ 10$ in Professor Searle.

$\text{SD}-12^{\circ}1083$ shows no evidence of variation on plates

Plate	Date	Comparison
B 2241	Jan. 24, 1888	a 2, 1 b a 2, 1083
B 3034	Oct 18, 1888	a 2, 1 b 1083 1, 1 b
B 3047	Oct. 21, 1888	a 3, 1 b
I 149	Nov. 17, 1889	a 3, 1 b
I 239	Dec. 6, 1889	a 4, 0 b
I 2890	Jan. 23, 1891.	a 3, 0 b

being always fainter than "a" which = $\text{SD}-12^{\circ}1088\ 10$
and about equal to "b" which = $\text{SD}-12^{\circ}1082\ 92$

H. H. Loomis.

January 8, 1896.

Exam. of photographs for star prec. $10-11^{\circ} 18' 26'' 15^s$ obs. by
Professor Searle March 7, 1892. Not seen on March 13, 1892.

Pl.	Date
I 129	Nov 14, 1889
I 248	Dec. 6, 1889
I 2895	Jan. 23, 1891.
I 3305	March 18, 1891.
B 10526	Oct 25, 1893.
B 10974	April 20, 1894
B 12498	Nov. 10, 1894
I 5562	Feb 6, 1892
I 5759	Feb 22, 1892
I 5536	Feb. 5, 1892.

No trace of any star in the position
given above has been found on the
plates enumerated above.

M. Fleming

January 13, 1896.
Exam. of Plates for Nova Centauri (Cont./p. 161)

Plate C 8706

10.8 $m = 2$ $N = 11.0$

0 $ms.$

$N = .1$

Plate C 8684

10.6 $m = 4$ $N = 11.0$ $10.8 = 10.90$ $.10$ $.10$

10.8 $N = 0$ $m = 10.8$

$N = 2$ 0

Plate C 8685-

does not cover region?

Plate C 8686

10.6 $m = 2$

$N = ms.$ < 10.8

Plate C 8687

10.2 $L = .1$

$N = ms.$ < 10.3

Plate I 14255-

10.8 $m = 2$ $N = 11.0$ $11.2 = 11.10$ $.10$ $.10$

11.2 $N = 0$ 0 11.2

Images very poor

Plate I 14256

10.6 $m = 1$ $N = 10.7$ $10.6 = 10.65$ $.05$ $.05$

10.6 $N = 2$ $m = 10.8$

Images good

Meas. of η Centauri (Cont.) January 13, 1896

Plate I 14173

10.2 $h = 1.2$

N ns. < 10.4

Plate I 14172

10.6 $m = 1.1$

N ns. < 10.7

Plate I 14171

10.8 $n 1 N$ 10.9 11.0 = 10.95 .05 .05

11.0 $N 2 0$ 11.2

Plate I 14170

10.8 $n 1 N$ 10.9 11.0 = 10.95 .05 .05

11.0 $N 2 0$ 11.2

Plate I 14214

10.6 $m = 1.2$

N ns. < 10.8

Plate I 14215

9.7 $h = 1.3$

N ns. < 10.0

Examination of Plates for spectrum of α Ceti.January 14, 1896.

Plate B 2174

$$H\gamma = 0$$

$$H\delta = 50$$

$$H\epsilon = 10$$

Plate I 2474

mc. no trace of bright lines.

Plate I 2446,

mc. Image poor.

Plate I 2181

$$H\gamma = 10$$

$$H\delta = 70$$

Plate I 2179

$$H\gamma = 10$$

$$H\delta = 70$$

Plate I 2178

mc. Image very poor.

Plate I 1998.

$$H\gamma = 10$$

$$H\delta = 60$$

Plate I 1997

$$H\gamma = 10$$

$$H\delta = 70$$

Plate I 1983

$H\gamma = 10$
 $H\delta = 70$

Plate I 1646

$H\gamma = 10$
 $H\delta = 70$

Plate I 702

Not seen. Plate poor.

Plate I 636

Mc. Image poor. No trace of bright lines

Plate I 579.

Mc. Image faint. No trace of bright lines

Plate I 563

Mc. No trace of bright lines

Plate I 532.

Not seen.

Plate I 497

Mc. No trace of bright lines.

Plate I 188

$H\gamma = 10$
 $H\delta = 70$

Plate B2894.

$$H\gamma = 10$$

$$H\delta = 30$$

Plate B2960

$$H\gamma = 10$$

$$H\delta = 40$$

Plate B7032

$$H\gamma = 10$$

$$H\delta = 50$$

Plate B8649

$$H\gamma = 10$$

$$H\delta = 30$$

Plate I4116

$$H\gamma = 10$$

$$H\delta = 60$$

$$H\epsilon = 20$$

$$H\zeta = 10$$

Plate I4341

$$H\gamma = 10$$

$$H\delta = 40$$

Plate I4636

Trace of $H\gamma$

$$H\delta = 30$$

Plate I 4756
Trace of H γ
H δ = 20

Plate I 4788
Mc.

Plate I 4924
Mc. Image very faint.

Plate I 4979.
Mc. Image very faint

Plate I 5235
Mc.

Plate I 5325
Mc.

Plate I 5416
Too faint.

Plate I 5556.
Mc. No trace of bright lines visible.

Plate I 5704
H γ = 10
H δ = 30

Plate I 9650
Mc. Image very faint

Plate B10365

Mc.

Plate B 10377

Mc. Faint trace of bright H δ . Image very good.

Plate B 10383

Faint trace of bright H δ .

Plate B10391

Mc.

Plate I 9928

Mc. Image poor

Plate I 10173

Mc.

Plate I 10334

Mc. Image good.

Plate I 10400

Mc. Image poor

Plate I 10412

Mc.

Plate I 10545

Mc.

Plate I 10555

Mc. Image good.

Plate I 10614
Mc. Image good.

Plate I 10635
Mc. Image good.

Plate I 10693
 $H\gamma = 10$
 $H\delta = 40$

Plate I 11748
Too faint

Plate I 11771
Too faint

Plate I 11778
Too faint.

Plate I 11781
Too faint

Plate I 11783
Too faint

Plate I 11788
Too faint.

Plate I 11951
Mc.

Plate I 11960
Too faint.

Plate I 11970
Too faint.

Plate I 11976
Too faint.

Plate I 11985
Too faint.

Plate I 11989
Too faint

Plate I 11998
Too faint.

Plate I 12004
Mc.

✓
Plate I 12012
Too faint.

Plate I 12018
Too faint. plate poor

Plate I 12084
Mc.

Plate I 12111
Mc.

Plate I 12135
Too faint. plate poor.

Plate I 12140
Mc. Image good.

Plate I 12196
Too faint.

Plate I 12191
Mc.

Plate I 12167
Mc.

Plate I 12163
Mc.

Plate I 12146
Mc.

Plate I 12151
Mc.

Plate I 12152
Mc.

Plate I 12156
Mc.

Plate I 12115²
Mc.

Plate I 12211
Mc

Plate I 12267
Mc 5d May be trace of bright lines.

Jan. 16, 1896
Scale Wedge

Plate I 12257
 $H\beta = 10$
 $H\delta = 30$

Plate I 12256
 $H\beta = 10$
 $H\delta = 30$

Plate I 12252
 $H\beta = 10$
 $H\delta = 30$

Plate I 12251
 $H\beta = 10$
 $H\delta = 30$

Plate I 12238
 $H\beta = 10$
 $H\delta = 30$

Plate I 12229
Mc.

Plate I 12224
Mc 5 d trace of bright lines?

Plate I 12432
 $H\beta = 10$
 $H\delta = 30$

Plate I 12411
 $H\beta = 10$
 $H\delta = 40$
 $H\epsilon = 05$
 $H\eta = 03$

Plate I 12410
 $H\beta = 10$
 $H\delta = 30$

Plate I 12387
 $H\beta = 10$
 $H\delta = 40$

Plate I 12375
 $H\beta = 10$
 $H\delta = 30$

Plate I 12324
 $H\beta = 10$
 $H\delta = 20$

Plate I 5179
Does not cover region

Plate I 2534
Mc.

Plate I 2985
Too faint. not seen.

Plate I 3043
Mc.

Plate I 4789
Mc.

Plate I 5457
Too faint.

Plate I 9854
Useless

Plate I 9640
Prism twisted. Not identified.

Plate I 10131
Mc. Image faint

Plate I 10347
Does not cover region

Plate I 10410
Too faint.

Plate I 10152
Mc.

Plate I 10157
Mc.

Plate I 10170
Too faint.

Plate I 10181
Plate too poor

Plate I 10199
Useless.

Plate I 10225
Useless.

Plate I 10285
Too faint.

Plate I 10286
Mc.

Plate I 10292
Mc.

Plate I 10312
Too faint.

Plate I 10313
Mc.

Plate I 10333
Mc.

Plate I 10342
Mc.

Jan. 15, 1895 0 beti.

Plate I 14300
 $H\gamma = 10$
 $H\delta = 60$

Plate I 562
Too faint.

Plate I 1688
Too poor.

Plate I 1823
Too poor.

Plate I 1942
Too poor.

Plate I 14311
 $H\gamma = 10$
 $H\delta = 70$

20
January 16, 1896

Meas. of new variable star in *Pavonis*.
Approx pos. $19^h 36.6^m - 72^\circ 5'$ (1875) Sp Md on B13777, No 7401

Plate B 5313.

var	10.2	⁴ 12.08 ^{11.99} 12.03 = ² 12.06 .02 .03	30.00c. mean
a	5.5	3c. 1695 13 39 56.69 - 71 43.1	8 7.5 v 7.8
b	6.0	" 1805 19 43 0.57 - 72 26.1	8 7.3/4 7.9 .-e
c	6.5	—	—
d	6.8	" 1771 19 42 1.13 - 72 40.4	9 — 9.0
e	7.1	—	—
f	7.4	Obs. 26991 19 35 25 - 72 6.1	— 8 3/4 8.8
g	7.7		
h	8.1		
k	8.4		
l	8.8		
m	9.2		
n	9.3		
o	9.5		
p	9.8		
q	10.1		
r	10.4		

⁴ 11.98	⁴ g 1 v	⁴ 12.08 ^{11.99} +2.03 = ² 12.06 .02 .03
^{11.99} 12.03	¹⁹ v 2 r	¹⁹ 12.23

Plate 13777 sp.

a	bl A	g d. e
b	" G	h 7.0 ft
c	" F	var Md
d	" 95K	² 9.13 ² e 2 v ² 9.33 ² 9.33 = ² 9.33 .00 .00
e	" G	² 9.33 ² v 1 f ² 9.43
f	" 95K	

January 20, 1896. (Cont.)
 Meas. of new var. in.

Plate B3761
 $\begin{array}{l} \overset{2}{9.43} \\ \overset{4}{9.66} \end{array} \begin{array}{l} f3v \\ r1g \end{array} \begin{array}{l} \overset{2}{9.73} \\ \overset{4}{9.76} \end{array} \overset{4}{9.66} = \overset{68}{9.70} \overset{0.4}{.03} \overset{.04}{.04}$

Plate B13552 sp.
 Too near edge

Plate B10231
 $\overset{39}{10.47} k = .1$
 $r \text{ ns. } < \overset{.49}{10.51}$

Plate B12236 sp.
 Too near edge

Plate B13473 sp.
 $\overset{8.42}{c2v} \overset{8.62}{d}$
 not in plate.

on edge of plate.

Plate B6267
 $\begin{array}{l} \overset{7.92}{8.32} \\ \overset{8.32}{8.42} \end{array} \begin{array}{l} b4v \\ r1c \end{array} \begin{array}{l} \overset{8.32}{8.32} \\ \overset{8.42}{8.42} \end{array} = \overset{8.32}{8.32} \overset{.00}{.00} \overset{.00}{.00}$

Plate B11720 sp.
 Too near edge.

Plate B11604
 $\overset{69}{10.71} k = .1$
 $r \text{ ns. } < \overset{.79}{10.72}$

January 20, 1896.
 Meas. of new var. in

Plate B14213

$$\begin{array}{l} \overset{39}{10.44} \text{ k1r} \quad \overset{19}{10.54} \quad \overset{39}{10.41} = \overset{4}{10.46} \quad \overset{\checkmark}{.05} \quad \overset{\checkmark}{.05} \\ \overset{39}{10.44} \text{ r3l} \quad \overset{69}{10.71} \end{array}$$

Plate B 13002

$$\begin{array}{l} \overset{2}{9.13} \text{ e3r} \quad \overset{2}{9.43} \quad \overset{2}{9.43} \quad \overset{4}{9.36} = \overset{39}{9.41} \quad \overset{.03}{.02} \quad \overset{.03}{.02} \quad \overset{.05}{.05} \\ \overset{2}{9.43} \text{ r0f} \quad \overset{2}{9.43} \\ \overset{4}{9.36} \text{ fr4g} \quad \overset{4}{9.76} \end{array}$$

Plate B13222

$$\begin{array}{l} \overset{\checkmark}{7.92} \text{ b1r} \quad \overset{\checkmark}{8.02} \quad \overset{\checkmark}{8.02} = \overset{\checkmark}{8.02} \quad \overset{\checkmark}{.00} \quad \overset{\checkmark}{.00} \\ \overset{\checkmark}{8.02} \text{ r4c} \quad \overset{\checkmark}{8.42} \end{array}$$

Plate B 11905

$$\begin{array}{l} \overset{4}{9.76} \text{ g4r} \quad \overset{.14}{10.06} \quad \overset{.04}{10.06} = \overset{9}{10.06} \quad \overset{.05}{.00} \quad \overset{.05}{.00} \\ \overset{.04}{10.06} \text{ r1h} \quad \overset{4}{10.16} \end{array}$$

Plate B12975

$$\begin{array}{l} \overset{2}{9.43} \text{ f2r} \quad \overset{2}{9.63} \quad \overset{4}{9.56} = \overset{.58}{9.60} \quad \overset{.04}{.03} \quad \overset{.04}{.04} \\ \overset{4}{9.56} \text{ r2g} \quad \overset{4}{9.76} \end{array}$$

Plate B6302

$$\begin{array}{l} \overset{\checkmark}{8.80} \text{ d1r} \quad \overset{\checkmark}{8.90} \quad \overset{2}{8.93} = \overset{1}{8.94} \quad \overset{.01}{.02} \quad \overset{\checkmark}{.01} \\ \overset{2}{8.93} \text{ r2e} \quad \overset{2}{9.13} \end{array}$$

Plate B 3813

$$\begin{array}{l} \overset{4}{9.76} \text{ g2r} \quad \overset{4}{9.96} \quad \overset{4}{9.96} = \overset{4}{9.96} \quad \overset{\checkmark}{.00} \quad \overset{\checkmark}{.00} \\ \overset{4}{9.96} \text{ r2h} \quad \overset{4}{10.16} \end{array}$$

Meas. of new var. in January 20, 1896. (Cont.)

Plate B 9322

7.34 a 5 v 7.84 7.92 7.92 7.89 .05 .03 .03
 7.92 v o t 7.92
 7.92 v 5 c 8.42

Plate B 9339

7.34 a 2 v 7.54 7.62 = 7.58 .04 .04
 7.62 v 3 b 7.92

Plate B 11643

a 6.1
 b 6.7
 c 7.2
 d 7.6
 e 7.9
 f 8.2
 g 8.5
 h 8.9
 k 9.1
 l 9.4
 m 9.8
 n 10.0
 o 10.2
 p 10.5
 q 10.7
 r ~~10.8~~ 10.2

var. ~~10.2~~ 10.4 11.65 11.65 = 11.65 .00 .00
 11.45 a 2 v 11.65 11.55 = 11.60 .05 .05
 11.55 v 2 b 11.75

Meas. of new var. in January 20, 1896. (Cont.)

Plate B6266

7.92[✓] f 4 v 8.32[✓] 8.32[✓] = 8.32[✓] .00[✓] .00[✓]
8.32[✓] v 1 c 8.42[✓]

Plate B14548

11.45[✓] 0 3 v 11.75[✓] 11.75[✓] 11.78[✓] = 11.76² .01[✓] .01[✓] .02[✓]
11.75[✓] v 0 p 11.75[✓]
11.78[✓] v 2 q 11.98[✓]

Plate B9319

7.34[✓] a 4 f v 7.74[✓] 7.72[✓] = 7.73[✓] .01[✓] .01[✓]
7.72[✓] v 2 b 7.92[✓]

Plate B9321

7.34[✓] a 5 v 7.84[✓] 7.82[✓] = 7.83[✓] .01[✓] .01[✓]
7.82[✓] v 1 b 7.92[✓]

Plate B9318

7.34[✓] a 6 v 7.94[✓] 8.02[✓] = 7.98[✓] .04[✓] .04[✓]
8.02[✓] v 4 c 8.42[✓]

b not on plate

Plate B3540

8.80[✓] d 4 v 9.20[✓] 9.03² = 9.14¹ .09[✓] .09[✓]
9.03² v 1 c 9.18²

Plate B13891

9.43² f 3 v 9.73²
g not on plate

Meas. of new var. in January 20, 1896 (Cont.)

Plate B 14295

³⁹
10.44

$k = .2$

r n.s. < 10.59
43

Plate B 13214

[✓]
7.34

[✓]
8.22

a q r 8.24 $8.22 = 8.23$ $.01$ $.01$

v 2 c 8.42

b not in plate

Plate B 6780 sp.

²
9.48

$f = .3$

r n.s. < 9.73
2

Plate B 11788

¹⁹
11.22

$n = .2$

r n.s. < 11.39
42

Plate B 12098

[✓]
8.80

²
9.13

²
9.13

d 3 r 9.10 9.13 $9.13 = 9.12$ $.01$ $.01$ $.01$

v 0 e 9.13

v 3 f 9.43

Plate B 12137

⁴
10.16

²⁹
10.37

h 3 r 10.46 $10.37 = 10.38$ $.08$ $.07$

r 1 k 10.44

Plate B 6300

[✓]
8.80

²
9.03

d 3 r 9.10 $9.03 = 9.06$ $.04$ $.03$

v 1 e 9.13

January 20, 1896. (Cont.)
 Meas. of new var. in

Plate B 13778 Sp.

$9.1\frac{2}{3}$
 $9.4\frac{2}{3}$

$e = 3$ $r = 9.4\frac{2}{3}$ $9.4\frac{2}{3} = 9.4\frac{2}{3} .00 .00$

$v = 0$ $f = 9.4\frac{2}{3}$

g not on pl

Sp. Md. $H\gamma 1.0$ $H\delta 1.0$
 on edge of pl.

Plate B 14639 Sp.

$9.7\frac{4}{5}$

$g = 1.1$

r n.s. $< 9.8\frac{4}{5}$

Plate B 14375

does not cover region?

Plate B 14338

too poor

Plate B 3915 Sp.

too poor

Plate B 3439 Sp.

8.80

$d = .2$

r n.s. < 9.00

Plate B 4119 Sp.

$7.9\frac{1}{2}$

$b = .2$

v n.s. $< 8\frac{1}{2}$

Plate B 11718 Sp.

$9.1\frac{2}{3}$

$e = .2$

r n.s. $< 9.3\frac{2}{3}$

Meas of ~~Star~~ Jan. 20, 1896
New Var. in

Cont.

Plate B 11711 Sp.

9.13^2

$\epsilon = .2$

r n.s. $< 9.33^2$

Plate B 11663 Sp.

9.43^2

$f = .3$

r n.s. $< 9.73^2$

B 11986 Sp.

9.13^2

9.43^2

$\epsilon 3r$

r of

9.43^2

9.43^2

$= 9.43^2$

$.00$

$.00$

Plate B 11712 Sp.

9.13^2

$\epsilon = .2$

r n.s. $< 9.33^2$

Plate B 10230

10.7^6

$b = .4$

$r = .1$

10.99
 11.04

Plate B 10470

10.7^6

$b = .2$

r n.s. $< 10.9^8$

Plate B 3539

8.80

9.03^2

$d 4 r$

9.20

9.03^2

$= 9.12$

$.09$

$.09$

$r 1 \beta e$

9.13

Mean of New Valini January 20, 1896

Cont.

Plate B 14252

a 5.1
 b 5.7
 c 6.3
 d 6.7
 e 7.1
 f 7.4
 g 7.7
 h 8.0
 i 8.3
 l 8.5
 m 8.7
 n 8.9
 o 9.2
 p 9.5
 q 9.7
 r 10.0
 var 8.6 $1084^{79} 1094^1 = 1087^5 \cdot 06 \cdot 06$
 $1074^{69} l 1 r 1084^{79} 1084^1 = 1084^0 \cdot 01 \cdot 02$
 $1084^1 r 2 m 1104^1$

Plate B 3922

$1016^4 h 2 r 1036^4 1034^{29} = 1034^2 \cdot 02 \cdot 03$
 $1034^{29} r 1 k 1044^{39}$

Plate B 4012

$1064^{59} g = r 1 l 1074^{69} = 1064^{59}$
 h & k not on plate

Mean. of Jan. 20, 1896
New Var in

Cont

Plate B 12070 Sp.

10.16^4 h 1 r 10.26^4 10.24^{19} = 10.24^2 $.02^v$ $.03^v$
 10.24^{19} r 2 h 10.41^{39}

Plate B 7977 Sp.

9.76^4 g = .2
r n.s. $< 9.96^4$

Plate B 6948 Sp.

10.16^4 h = .1
r n.s. $< 10.26^4$

Plate B 6784 Sp.

9.76^4 g = .2
r n.s. $< 9.96^4$

Plate B 6815 Sp.

9.76^4 g = .1
r n.s. $< 9.86^4$

Plate B 6801 Sp.

9.76^4 g 1 r 9.86^4 9.96^4 = 9.94^{89} $.05^v$ $.05^v$
 9.96^4 r 2 h 10.16^4

Plate B 6299

8.80^2 d 2 r 9.00^2 8.93^2 = 8.96^2 $.04^v$ $.04^v$
 8.93^2 r 2 e 9.13^2

Mean. of Jan 20, 1896
Mean. of New Var. in

Cont.

Plate B 6265

7.92[✓] b 5 r 8.42[✓] 8.42[✓] 8.30[✓] = 8.38[✓] .04[✓] .04[✓] .08[✓]
8.42[✓] r 0 c 8.42[✓]
8.30[✓] r 5 d 8.80[✓]

Plate B 13890

9.43² f 5 r 9.93² 9.76⁴ = 9.84³ .09[✓] .09[✓]
9.76⁴ r 4 h 10.16⁴
g not on plate

Plate B 8035 Sp.

10.16⁴ h = .2
r n.s. < 10.36⁴

Plate B 5341 Sp.

8.80[✓] d = .2
r n.s. < 9.00[✓]

Plate B 11599

10.41³⁹ k = .2
r n.s. < 10.61⁵⁹

Plate B 13537

8.42[✓] c 3 r 8.72² 8.63² = 8.68⁷ .05⁰⁵ .04[✓] .05[✓]
8.63² r 5 e 9.13²
d not on plate

Meas. of January 20, 1896

Cent

Plate B 13218

$$\begin{array}{l} 7.92 \quad b \ 4 \ r \quad 8.32 \quad 8.22 = 8.27 \quad .05 \quad .05 \\ 8.22 \quad r \ 2 \ c \quad 8.42 \end{array}$$

Plate B 12507

$$\begin{array}{l} 10.11 \quad r \ 3 \ k \quad 10.44 = 10.11 \quad .09 \\ h \text{ not on plate} \end{array}$$

Plate B 12972

$$\begin{array}{l} 9.48 \quad f \ 1 \ r \quad 9.53 \quad 9.46 = 9.50 \quad .04 \quad .04 \\ 9.46 \quad r \ 3 \ g \quad 9.76 \end{array}$$

Plate B 11854

$$\begin{array}{l} 9.76 \quad g \ 4 \ r \quad 10.16 \quad 10.16 \quad 10.11 = 10.14 \quad .02 \quad .02 \quad .03 \\ 10.16 \quad r \ 0 \ h \quad 10.16 \\ 10.11 \quad r \ 3 \ k \quad 10.44 \end{array}$$

Plate B 11642

$$\begin{array}{l} 11.04 \quad m \ 2 \ r \quad 11.24 \quad 11.12 = 11.18 \quad .06 \quad .06 \\ 11.12 \quad r \ 1 \ w \quad 11.22 \end{array}$$

Plate B 9676

$$\begin{array}{l} 10.16 \quad h \ 2 \ r \quad 10.36 \quad 10.31 = 10.34 \quad .02 \quad .03 \\ 10.31 \quad r \ 1 \ k \quad 10.44 \end{array}$$

January 20, 1896

Messier's New Var. in

Cent

Plate B 11566

a 5.8

b 6.4

c 6.8

d 7.2

e 7.5

f 7.8

g 8.4²h 8.2⁷

i 8.9

l 9.2

m 9.5

n 9.7

o 9.9

p 10.2

q 10.4

r 10.6

$$\text{rav. } 10.1 \quad \overset{.61}{11.85} \quad \overset{.1}{11.68} = \overset{.61}{11.76} \quad \overset{.00}{.09} \quad \overset{.00}{.08}$$

$$11.45 \quad \sigma 2 \quad \overset{.1}{11.65} \quad \overset{.1}{11.65} = \overset{.1}{11.65} \quad \overset{.00}{.00} \quad \overset{.00}{.00}$$

$$11.65 \quad \sigma 1 \quad \overset{.1}{11.75}$$

$v' =$ *RX Sagittarii*

January 21, 1896

Meas. of new var. in *Sagittarius*

Sp. Md on Plate B14380 No 8039

Apparent pos. R.A. 19 6.1 Dec. $-19^{\circ} 4'$ (1855) = v^1

RX Sagittarii = ~~Sp~~ $-19^{\circ} 53' 47''$ also var. and indicated as v^2
Plate B4028

a 5.5

b 5.9

c 6.5

d 6.8

e 7.1

f 7.6

g 8.2

h 8.5

k 8.8

l 9.0

m 9.3

n 9.6

~~Var~~

~~o~~ 9.9

o h 10.2

~~h~~

$12.10^{18} \text{ var } 9.4$ $12.20^{18} 12.25^3 = 12.22^0 .02^{\checkmark} .03^{\checkmark}$

$12.10^{08} m 3 v$ $12.40^{38} 12.35^3 = 12.38^6 .02^{\checkmark} .03^{\checkmark}$

$12.35^3 v 1 n$ 12.45^3



January 2¹/₂, 1896.
 Mean of new Var. in Sagittarius Cont.

Plate B 14380 Sp.

a cl. F.

b A.

c G.

d A.

e A.

f too ft.

var Mds.

982 e 3 r 10.12 10.20 = ^{10.16}~~12.16~~ .04 .04
 10.20 r 1 f 10.30

Plate B 14549

982 e 1 r 9.92 10.00 = 9.96 .04 .04
 10.00 r 3 f 10.30

Plate I 13141

10.30 f 2 r 10.50 10.55 = 10.52 .02 .03
 10.55 r 2 g 10.75

Plate I 13217

982 e 1 r 9.92 10.00 = 9.96 .04 .04
 10.00 r 3 f 10.30

Plate I 13093

10.30 f 4 r 10.70 10.65 = 10.68 .02 .03
 10.65 r 1 g 10.75

January 21, 1896
 Meas of New Vanden Sagittarius Cont.

Plate B 7769

9.82 $e = .4$
 r n.s. $\angle 10.22$

Plate B 9552 Sp.

9.82 $e = .4$
 r n.s. $\angle 10.22$

Plate B 3683 Sp.

9.02 $e = .1$
 r n.s. $\angle 9.12$

Plate B 6238 Sp.

10.30 $f = .2$
 r n.s. $\angle 10.50$

Plate B 10040

11.17 $h_e = .2$
 r n.s. $\angle 11.37$

Plate B 11480 Sp.

9.82 $e = .3$
 r n.s. $\angle 10.12$

Plate B 6545 Sp.

9.82 $e = .3$
 $r = .1$ 10.02

January 21, 1896
Heads of New Star in Sagittarius

Cont.

Plate B 7808

9.02 $c = .4$

r n.s. < 9.42

Plate B 14089

row 1. 10.75 g 2 r 10.95 11.07 = 10.01 .06 .06

11.07 r 1 h 11.17

row 2. 9.82 e 1 r 9.92 9.90 = 9.91 .01 .01

9.90 r 4 f 10.30

Plate B 13539

row 1. 11.75 ³ h 3 r 12.05 ³ ~~11.98~~ = 12.02 .03 .02

row 2. ^{9.98} 12.00 r 1 m 12.10 ⁰⁸

row 2. 10.30 ³ f 4 r 10.70 10.65 = 10.68 .02 .03

10.65 r 1 g 10.75

Plate B 12546

row 1. 11.17 h 3 r 11.47 11.45 = 11.46 .01 .01

11.45 r 1 h 11.55

row 2. 10.75 g 3 r 11.05 11.07 = 11.06 .01 .01

11.07 r 1 h 11.17

Plate B 7745 Sp.

row 1. 9.82 $c = .3$

r n.s. < 10.12

row 2. r n.s. < 10.12

January 21, 1896
 Meas of New Var in Sagittarius Cont.
 Plate B 9786 Sp.
 Plate too poor

Plate B 9812 Sp.

var 1 982^{\checkmark} $e = .3$
 r n s $< 10.12^{\checkmark}$
 var 2 r n s $< 10.12^{\checkmark}$

Plate I 12952
 Plate useless

Plate I 13507

var 1 10.30^{\checkmark} f 4 r 10.70^{\checkmark} 10.65^{\checkmark} $= 10.68^{\checkmark}$ $.02^{\checkmark}$ $.03^{\checkmark}$
 10.65^{\checkmark} r 1 g 10.75^{\checkmark}
 var 2 982^{\checkmark} e 5 r 10.32^{\checkmark} 10.20^{\checkmark} $= 10.26^{\checkmark}$ $.06^{\checkmark}$ $.06^{\checkmark}$
 10.20^{\checkmark} r 1 f 10.30^{\checkmark}

Plate B 14643

var 1 982^{\checkmark} $e = .2$
~~var~~ r n s $< 10.02^{\checkmark}$
 var 2 ~~var~~ $r = 1$ 9.92^{\checkmark}

Sp. Mc.?

Plate B 8366

var 1 1299^{\checkmark} $r = .5$
 $r = .2$ 13.29^{\checkmark}
 var 2 1030^{\checkmark} f 2 r 10.50^{\checkmark} 10.45^{\checkmark} $= 10.48^{\checkmark}$ $.02^{\checkmark}$ $.03^{\checkmark}$
 10.45^{\checkmark} r 3 g 10.75^{\checkmark}

January 21, 1896
 Messrs of New Var in Sagittarius
 Plate B 6871 Sp.

Cent

var 1. $\overset{\vee}{982} e = .1$

r n.s. $< \overset{\vee}{992}$

var 2. r n.s. $< \overset{\vee}{992}$

Plate B 87~~45~~⁷¹ Sp. 4X5 not identified

Plate B 87⁷36 Sp. 4X5 does not cover region

Plate B 9239
~~h = .3~~

var 1 $\overset{08}{1240} m = .2$

r = .1 $\overset{18}{1270}$

var 2 $\overset{\vee}{1075} g 3 r$

$\overset{\vee}{1105} \overset{\vee}{1117} \overset{\vee}{1115} = \overset{\vee}{1112} \# \overset{\vee}{.06} \overset{\vee}{.07} \overset{\vee}{.05} \overset{\vee}{.03}$

$\overset{\vee}{1117} r 0 h$

$\overset{\vee}{1117}$

$\overset{\vee}{1115} r 4 h$

$\overset{\vee}{1155}$

Plate B 6159

var 1 $\overset{3}{1175} h = .3$

r n.s. $< \overset{3}{1205}$

var 2 $\overset{\vee}{932} d 5 r$

$\overset{\vee}{982} \overset{\vee}{972} = \overset{\vee}{977} . \overset{\vee}{.05} \overset{\vee}{.05}$

$\overset{\vee}{972} r 1 e$

$\overset{\vee}{982}$

Plate B 6937 Sp.

var 1 $\overset{\vee}{982} e = .2$

r n.s. $< \overset{\vee}{1002}$

var 2

r n.s. $< \overset{\vee}{1002}$

January 21, 1896.
 Meas. of New Var in Sagittarius Cont.
 Plate B 12252

row 1. $982 \quad e = .3$

$r = .2 \quad 992$

row 2. $r = .1 \quad 10.02$

Sp. Md.?

Plate B 9886

row 1. $1210^{08} \quad m = .3$

$r \quad n.s. \quad < 1240^{38}$

row 2 not on plate

on edge of plate

Plate B 10039

row 1 on edge of plate

row 2 $982 \quad e = .3 \quad r \quad 10.12 \quad 10.10 = 10.11 \quad .01 \quad .01$
 $10.10 \quad r = 2 \quad f \quad 10.30$

Plate I 13081 Sp. too few

Plate B 12549

row 1 $11075 \quad g = 2 \quad r \quad 10.95 \quad 11.07 = 11.01 \quad .06 \quad .06$

$11.07 \quad r = 1 \quad h \quad 11.17$

row 2 $1030 \quad f = 4 \quad r \quad 10.70 \quad 10.65 = 10.68 \quad .02 \quad .03$

$10.65 \quad r = 1 \quad g \quad 10.75$

Plate B. 9240

row 1 $1299 \quad f = .3 \quad r$

$r \quad n.s. \quad < 1328$

row 2 $1075 \quad g = 1 \quad r \quad 10.85 \quad 10.87 = 10.86 \quad .01 \quad .01$
 $10.87 \quad r = 3 \quad h \quad 11.17$

January 21, 1896
 Meas. of New Variables Sagittarius Cont.
 Plate B 14092

var 1 $\overset{\vee}{10.30}$ f 5 r $\overset{\vee}{10.80}$ $\overset{\vee}{10.75}$ $\overset{\vee}{10.87} = \overset{\vee}{10.81}$ $\overset{\vee}{.01}$ $\overset{\vee}{.06}$ $\overset{\vee}{.06}$
 $\overset{\vee}{10.75}$ r o g $\overset{\vee}{10.75}$
 $\overset{\vee}{10.87}$ r 3 h $\overset{\vee}{11.17}$
 var 2 $\overset{\vee}{9.32}$ d 5 r $\overset{\vee}{9.82}$ $\overset{\vee}{9.82}$ $\overset{\vee}{9.90}$ $\overset{\vee}{9.85}$ $\overset{\vee}{.03}$ $\overset{\vee}{.03}$ $\overset{\vee}{.05}$
 $\overset{\vee}{9.82}$ r o e $\overset{\vee}{9.82}$
 $\overset{\vee}{9.90}$ r 4 f $\overset{\vee}{10.30}$

Plate I 13000

var 1 $\overset{\vee}{11.17}$ h = 1.2
 r n.s. $< \overset{\vee}{11.37}$
 var 2 $\overset{\vee}{9.82}$ e 5 r $\overset{\vee}{10.32}$ $\overset{\vee}{10.30}$ $\overset{\vee}{10.35} = \overset{\vee}{10.32}$ $\overset{\vee}{.00}$ $\overset{\vee}{.02}$ $\overset{\vee}{.03}$
 $\overset{\vee}{10.30}$ r o f $\overset{\vee}{10.30}$
 $\overset{\vee}{10.35}$ f 4 g $\overset{\vee}{10.75}$

Plate B 9887

var 1 $\overset{\vee}{12.40}$ m = .3 on edge of plate
 r n.s. $< \overset{\vee}{12.40}$
 var 2 not on plate

Plate I 12987 sp. too poor

Plate I 12982

var 1 $\overset{\vee}{10.30}$ f = 1.2
 r n.s. $< \overset{\vee}{10.50}$
 var 2 r = .1 $\overset{\vee}{10.40}$

January 21, 1896
 Meas. of New Star in Sagittarius Cont.
 Plate I 13069

ran 1. 10.75 $g = .2$
 $r = .1$ 10.85

ran 2. 9.32 d 5 r 9.82 9.82 $9.80 = 9.81$ $.01$ $.01$ $.01$
 9.82 r o e 9.82
 9.80 r 5 f 10.30

Plate B 4165

ran 1. 12.94 $f = .2$
 r n.s. < 13.18

ran 2. 10.75 g 1 r 10.85 $10.87 = 10.86$ $.01$ $.01$
 10.87 r 3 h 11.17

Plate B 6158

ran 1. 10.30 $f = .3$
 r n.s. < 10.60

ran 2. 9.32 d 5 r 9.82 9.82 $9.80 = 9.81$ $.01$ $.01$ $.01$
 9.82 r o e 9.82
 9.80 r 5 f 10.30

Plate B 14177 Sp.

ran 1. 10.75 $g = .1$
 r n.s. < 10.85

ran 2. 9.82 e 2 r 10.02 $10.10 = 10.06$ $.04$ $.04$ Sp. Md
 10.10 r 2 f 10.30

near edge of plate
 image indistinct

January 21 1896
 Meas. of New Stars in Sagittarius
 Plate I 12980

East

row 1
 a 5.4
 b 5.8
 c 6.2
 d 6.5
 e 7.1
 f 7.7
 g 8.1
 h 8.4
 k 8.8
 l 8.9
 m 9.3
 n 9.7
~~o~~ 10.1 var.

o f 10.3
 row 1 8.9 $\begin{matrix} 11.6 \\ 11.75 \end{matrix}$ $\begin{matrix} 11.3 \\ 11.75 \end{matrix}$ $\begin{matrix} 11.68 \\ 11.70 \end{matrix}$ = $\begin{matrix} 11.73 \\ 11.73 \end{matrix}$ $\begin{matrix} .69 \\ .02 \end{matrix}$ $\begin{matrix} .04 \\ .02 \end{matrix}$ $\begin{matrix} .04 \\ .03 \end{matrix}$ $\begin{matrix} .01 \\ .01 \end{matrix}$
 $\begin{matrix} 11.55 \\ 11.75 \end{matrix}$ k 1 v $\begin{matrix} 11.65 \\ 11.75 \end{matrix}$ $\begin{matrix} 11.3 \\ 11.70 \end{matrix}$ = $\begin{matrix} 11.70 \\ 11.70 \end{matrix}$ $\begin{matrix} .69 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .05 \end{matrix}$ $\begin{matrix} .04 \\ .00 \end{matrix}$ $\begin{matrix} .01 \\ .00 \end{matrix}$
 $\begin{matrix} 11.75 \\ 12.70 \end{matrix}$ r o l $\begin{matrix} 11.75 \\ 12.10 \end{matrix}$
 $\begin{matrix} 12.70 \\ 12.70 \end{matrix}$ r 4 m $\begin{matrix} 12.70 \\ 12.70 \end{matrix}$

row 2 8.0 $\begin{matrix} 10.60 \\ 10.70 \end{matrix}$ $\begin{matrix} 10.65 \\ 10.65 \end{matrix}$ = $\begin{matrix} 10.62 \\ 10.68 \end{matrix}$ $\begin{matrix} .02 \\ .02 \end{matrix}$ $\begin{matrix} .02 \\ .03 \end{matrix}$ $\begin{matrix} .03 \\ .03 \end{matrix}$
 $\begin{matrix} 10.30 \\ 10.65 \end{matrix}$ f 4 r $\begin{matrix} 10.70 \\ 10.75 \end{matrix}$ $\begin{matrix} 10.65 \\ 10.75 \end{matrix}$ = $\begin{matrix} 10.68 \\ 10.75 \end{matrix}$ $\begin{matrix} .02 \\ .02 \end{matrix}$ $\begin{matrix} .03 \\ .03 \end{matrix}$
 $\begin{matrix} 10.65 \\ 10.65 \end{matrix}$ r 1 g $\begin{matrix} 10.75 \\ 10.75 \end{matrix}$

Plate I 2090

row 1 $\begin{matrix} 10.75 \\ 10.75 \end{matrix}$ g = .2
 r n.s. $\begin{matrix} 10.95 \\ 10.95 \end{matrix}$
 row 2 r = .1 $\begin{matrix} 10.85 \\ 10.85 \end{matrix}$

January 21, 1896.
 Meas of New Var in Sagittarius Cont.
 Plate I 1545 on edge of plate does not cover regm.

Plate I 1625 too poor useless

Plate I 3924 Sp. on edge of plate

Plate I 13179 useless

Plate B 14208 Sp.

$$\text{var. } 1982 e = .3$$

$$r = .1 \quad 1002$$

Sp. Mc?

$$\text{var. } 2932 \text{ d } 5r \quad 9.82 \quad 9.82 = 9.82 \quad .00 \quad .00$$

$$9.82 \quad r 0 e \quad 9.82$$

Plate B 13037

$$\text{var. } 1982 e = .2$$

$$r \text{ n.s. } < 1002$$

$$\text{var. } 2 \quad r = e \quad 9.82$$

Plate B ~~3137~~ 3137

$$\text{var. } 1982 e = .1$$

$$r \text{ n.s. } < 992$$

$$\text{var. } 2 \quad 932 \text{ d } 5r \quad 9.82 \quad 9.72 = 9.77 \quad .05 \quad .05$$

$$9.72 \quad r 1 e \quad 9.82$$

Plate B 3136

$$\text{var. } 1982 e = .1$$

$$r \text{ n.s. } < 992$$

$$\text{var. } 2 \quad 932 \text{ d } 45r \quad 9.72 \quad 9.62 = 9.67 \quad .05 \quad .05$$

$$9.62 \quad r 2 e \quad 9.82$$

January 21, 1896.
 Mean. of New Mercur. Sagittarius
 Plate II 13484

var 1 a 5.6
 b 6.0
 c 6.6
 d 6.9
 e 7.4
 f 7.8
 g 8.3
 h 8.8
 i 9.2
 l 9.4
 m 9.8
 n 10.1
~~o 10.4~~ var.

o 10.6
 var. 7.7 $10.12 \quad 10.20 = 10.16 \quad .04 \quad .04$
 $9.82 \quad 24r \quad 10.22 \quad 10.20 = 10.21 \quad .01 \quad .01$
 $10.20 \quad r1f \quad 10.30$
 var. 2 7.6 $10.02 \quad 10.10 = 10.06 \quad .04 \quad .04$
 $9.82 \quad 24r \quad 10.22 \quad 10.10 = 10.16 \quad .06 \quad .06$
 $10.10 \quad r2f \quad 10.30$

Plate 3123

var 111.17 $h = .3$
 r m.3 < 11.47
 var 2 $9.32 \quad d \quad 5r \quad 9.82 \quad 9.72 = 9.77 \quad .05 \quad .05$
 $9.72 \quad r1e \quad 9.82$

Continued in Book 8
 p.4

January. 16, 1896.
 Examination of bright hydrogen lines in spectra of α beti.
 Plate I 14220.
 Image too dense.

Plate I 12375
 H γ 8.9 *midge* 8.90 5.25 8.9 5.3
 H δ 8.5 5.2 8.55 8.6

Plate I 14178
 H γ 9.7 5.9 9.55 5.85 9.4 5.8
 H δ 9.3 9.15 9.0

Plate I 12411
 H γ 9.7 5.8 9.6 6.0
 H δ 9.3 9.0
 H ϵ 10.0 10.0
 H ζ 10.4 10.5

Plate I 12257
 H γ 10.2 6.3 10.2 6.5
 H δ 9.7 9.7

Plate I 142¹⁹~~71~~
 Image too dense.

Plate I 12324
 H γ 10.4? 5.6 9.9 5.8
 H δ 9.8 9.9

Plate I 12238
 $H\gamma$? wedge,
 $H\delta$ 9.9 5.9

2nd Meas. ✓
 ?
 9.9 5.9

Plate I 12410
 $H\gamma$ 10.2
 $H\delta$ 9.8 6.5

✓
 10.3
 9.9 6.5

Plate I 14241
 $H\gamma$ Image too dense.
 $H\delta$

3rd Meas. ✓ 2nd Meas.
 9.0 4.7 9.0 4.6 Image dense.
 8.2 8.0

Plate I 12252
 $H\gamma$ 10.1 6.2
 $H\delta$ 9.7

✓
 9.9 6.0
 9.6

Plate I 12387
 Images too dense.

Plate I 14177
 $H\gamma$ 10.0
 $H\delta$ 9.4 5.8

✓
 9.9 5.9
 9.3

Plate I 14257
 $H\gamma$ = 10.0
 $H\delta$ = 8.8 4.7

✓
 10.0 5.0
 9.1

Plate I 12251
 $H\gamma$ 9.7 5.6
 $H\delta$ 9.5

3rd Meas. ✓
 9.6 9.6 5.3
 9.4 9.8

Plate I 14149

 H_{γ} 9.8
 H_{δ} 9.4 6.1

✓
10.0
9.4 5.9

Plate I 12256.

 H_{γ} 10.2
 H_{δ} 10.0 6.1

✓
10.2
9.89 6.0

Plate I 14240

 H_{γ} 9.8
 H_{δ} 8.8 4.8

✓
9.4
8.4 4.8

Plate I 12432

 H_{γ} 10.4
 H_{δ} 10.0 6.3

✓
10.1
9.8 6.3

Plate I 14258

 H_{γ} 8.9
 H_{δ} 8.1 4.7

✓
9.0
8.1 4.7

Plate I 14311

 $H_{\gamma} = 9.8$
 H_{δ} 8.9 5.5

✓ 9.7
9.0 5.5

 H_{γ} 9.8
 H_{δ} 9.0 6.1

✓ 9.8
9.0 6.0

 H_{γ} 9.9
 H_{δ} 8.9 5.3

✓ 9.6
8.8 5.3

Plate I 14300

H γ 10.0 6.5
H δ 9.4

✓
9.9 6.5
✓ 9.5

H γ 10.2 6.9
H δ 9.7

10.3 7.0
9.9

February 5 1895.
 Meas. of brightness of Comp. stars for Nova Persei.
 See B. 1 p. 76 and B 8 p.

Plate I 2560

a	6.4
b	6.8
c	7.8
d	8.0
e	8.7
f	9.0
g	9.5
h	9.8
k	10.3
l	7
m	7

Plate I 10352

a	6.5
b	6.9
c	8.0
d	8.2
e	8.8
f	9.0
g	9.6
h	9.8
k	10.3
l	
m	
n	

February 5, 1895.

Mreas. of brightness of comp. stars for Nova Persei Cat.

Plate I 11766

a	6.7
b	7.0
c	8.1
d	8.3
e	8.9
f	9.2
g	9.9
h	10.2
k	7
l	7
m	7

Plate I 12081

a	6.4
b	6.8
c	7.8
d	8.5
e	8.7
f	9.0
g	9.7
h	10.0
k	10.4
l	7
m	7

1895plate,proj., 6037