

KG
11365
939

H. S. L.
Book III

K61365, 939

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Reduced, February 17, 1916
S.F.M.

March 20, 1896

S/Bostis Continued

Plate C 8507 taken Nov. 27, 1895

9.28 c 4 r 9.68 9.58 v = 9.63 05 05

9.08 r 5 f 10.08

Plate C 8544 taken Nov. 30, 1895

r 0 f 10.08 v = 10.08

Plate C 8618 taken Dec. 17, 1895

10.08 f 4 r 10.48 v = 10.48

q n.s.

Plate C 8653 taken Dec. 20, 1895

10.08 f 7 r 10.78 10.88 v = 10.83 05 05

10.88 r 2 g 11.08

Plate C 8654 taken Dec. 20, 1895

10.08 f 7 r 10.78 10.78 v = 10.78 00 00

10.78 r 3 g 11.08

Plate C 8661 taken Dec. 20, 1895

r n.s.

9.28 c = .1

v = 9.3

Plate C 8707 taken Jan. 1, 1896

r 0 h 11.36 v = 11.36

Plate C 8877 taken Feb. 20, 1896

v n.s. v < 12.9

12.84 m = .1

April 8, 1896 Plate C 8993 taken March 27, 1896

r 0 p 2 14.04 v = 14.04

Images so faint I can just tell they are there -

Continued p. 165

March 28th, 1896

Measures of the photographic brightness of
Mr. C. L. Kundell's comparison stars C. K. Caudette-
pardi.

Plate I 2303 taken Nov. 20, 1890

Defocused

a 6.6 6.9

b 7.5

c 7.7

d 7.8

e 8.0

f 8.1

g 8.8

h 9.0

i 9.5

k 10.0

m 9.9

n 9.8

o 10.1

p 10.3

q n.s.

r n.s.

s 10.0

March 23rd 1895
B Camel Cont.

Plate I 12935 taken May 29, 1895

a	6.8	7.1	Superimposed.
b	7.1	7.4	
c		7.5	
d		8.0	
e		8.2	
f		8.2	
g		9.0	
h		9.1	
i		10.0	
j		10.1	
k		10.2	
l		10.1	
m		10.2	
n		10.1	
o		n.s.	
p		10.4 ²	
q		n.s.	
r		10.9	
s		8.4	

Images poor

Reduced March 26th 1916 7
27.7.77

March 27, 1896

Estimates of the brightness of B Camelopardis.

a b c d e f g h i k l m n o p q r

Plate B 204 taken Dec. 15, 1885

Begin too faint

Edge of plate
r.m.s. $v < 12.1$

11.92 $q = 2$
Edge of plate
r.m.s. $v < 13.4$

13.21 $n = 2$
Inner edge of plate
r.m.s. $v < 11.9$

11.76 $q = 1$
Extreme edge of plate
r.m.s. $v < 11.9$

11.76 $q = 1$
Edge of plate
14.53 p 1 v 14.63 14.80 $v = 14.72$ 09 08

14.80 r o p 14.80
Plate B 1927 taken Nov. 26, 1887
not on plate

Plate B 1903 taken Nov. 29, 1887
Too dark to see - very badly fogged

Plate B 2049 taken Dec. 14, 1887
not on plate

Reduced March 25, 1916
9.7 m.

March 25, 1894

R. Campbell.

Plate B 2050 taken Dec. 14, 1887
not on plate

Images
scarcely seen

Plate B 2057 taken Dec. 14, 1887
no e? 10.94 v = 10.94?

c and d
not on plate
extreme edge

Plate B 2203 taken Jan. 31, 1888
9.53 b 4r 9.93 10.44 v = 10.18 25 26
10.44 r 5 d e 10.74

Images scarcely
seen -

Plate B 2616 taken May 9, 1888
no m? 13.32 v = 13.32?

Plate I 14 taken Oct. 4, 1889
not on plate

Plate I 64 taken Oct. 18, 1889
12.72 K 2 r 12.92 13.22 v = 13.07 15 15

extreme edge
of plate images
faint

Plate I 143 taken Nov. 16, 1889
13.22 v 1 m 13.32 v = 13.32

edge of plate

Plate I 746 taken Dec. 3, 1890
11.31 f 3 r 11.71 11.56 v = 11.64 07 08
11.56 r 2 2 11.76

Plate I 745
10.31 f 2 r 11.01 11.21 v = 11.11 10 10
11.21 r 1 f 11.31

Reduced March 25, 1916
9.7 m.

March 25, 1896

Plate I 203 taken March 9, 1890
11.31 f 2 r 11.51 11.36 v = 11.44 07 08
11.36 r 4 9 11.76

extreme
edge of
plate

Plate I 206 taken March 9, 1890
11.31 f 1 r 11.41 11.36 v = 11.38 03, 02
11.36 r 4 9 11.76
Plate I 1727 taken Aug. 28, 1890
Not on plate

Plate I 2308 taken Nov. 20, 1890
no c 14.06 v = 14.06

Plate C 3343 taken Jan. 23, 1891
no b 9.53 v = 9.53

Plate I 3166 taken Feb. 22, 1891
9.53 b 6 r 10.13 10.20 v = 10.16 03 04
10.30 r 1 d 10.30

edge of
plate

Plate I 3168 taken Feb. 22, 1891
9.53 b 4 r 9.93 10.10 v = 10.02 09 08
10.10 r 2 d 10.30

very
from plate

Plate C 3608 taken April 6, 1891
11.31 f 1 r 11.41 v = 11.41?

Plate from
image faint

Plate C 3675 taken April 29, 1891
no b 12.38 v = 12.38

very from
plate

Plate C 3676 taken April 29, 1891
no b 12.38 v = 12.38?

Reduced, March 25, 1916
S.F.M.

March 24, 1896

R. Campbell

Plate I 5509 taken Feb. 4, 1892

12.38 $k' 3r$ 12.68 12.52 $v = 12.60$ 08 08

12.52 $r 2k$ 12.72

Plate C 4635 taken April 9, 1892

r.m.s.

$v < 13.4$

12.26 $k = .1$

A scratch in film may hide variable

Plate C 4636 taken Feb. 4, 1892

$k' 4r$ r.m.s.

$v < 13.4$

$r 3k$ m = .1

That I took for r was a defect

Plate I 6070 taken April 11, 1892

r.m.s.

$v < 13.4$

13.22 m = .1

Plate C 5456 taken March 21, 1893

10.30 $d 3r$ 10.60 10.54 $v = 10.57$ 03 03

10.54 $r 4k$ 10.94

Plate C 5457 taken March 21, 1893

10.30 $d 4r$ 10.70 10.64 $v = 10.67$ 03 03

10.64 $r 3k$ 10.94

Plate C 5620 taken June 20, 1892

10.81 $f 1r$ 10.91 11.01 $v = 10.96$ 05, 05

11.01 $r 3f$ 11.31

Plate C 5638 taken June 29, 1893

11.31 $f' 6r$ 11.91 11.66 $v = 11.78$ 13, 13

11.66 $r 1g$ 11.76

Plate I 8670 taken June 30, 1893

11.31 $f' 4r$ 11.71 11.66 $v = 11.68$ 03, 02

11.66 $r 2g$ 11.76

edge of
plate

Reduced, March 25, 1916
S.F.M.

March 24, 1896

edge of
plate

Plate I 8671 taken June 30, 1893

11.31 $f' 4r$ 11.71 11.66 $v = 11.68$ 03 02

11.66 $r 1g$ 11.76

Plate C 75657 taken July 2, 1893

$r 0g$ 11.76 $v = 11.76$

Images
very faint

Plate C 5812 taken Aug. 2, 1893

13.22 m 1r $v = 13.42?$

o m.s.

Plate I 9305 taken Aug. 25, 1893

not on plate

Plate * C 5963 taken Sept. 9, 1893

r.m.s.

$v < 13.4$

* Assumed to be
intended for C 5963
as C 5962 does not
cover, and C 5963
agrees in etc.

13.22 m = .1

Plate I 9956 taken Nov. 20, 1893

11.31 $f' 3r$ 11.61 11.56 $v = 11.58$ 03 02

11.56 $r 2g$ 11.76

Plate C 6376 taken Dec. 33, 1893

9.53 $b 3r$ 9.83 10.10 $v = 9.96$ 13 14

10.10 $r 2d$ 10.30

Plate C 6429 taken Jan. 1, 1894

9.53 $b 5r$ 10.03 10.20 $v = 10.12$ 09, 08

10.20 $r 1d$ 10.30

Plate C 6675 taken March 30, 1894

11.76 $g 1r$ 11.86 11.72 $v = 11.79$ 07, 07

11.72 $r 2e$ 11.92

Reduced March 25, 1916
9.7m

March 24, 1896

R Campbell's pond.

Plate C 6694 taken April 9, 1894

11.92 h 1 r 12.02 11.88 v = 11.95 0.7 0.7

11.88 r 5 k 12.38

very poor plate

Reduced, March 25, 1916
9.7m

March 25, 1896

R Campbell's pond.

from Plate C 6695 taken April 9, 1894

11.92 h 4 r 12.32 12.28 v = 12.30 0.2 0.2

12.28 r 1 k 12.38

Plate C 6715 taken April 30, 1894

rm. S. v = 12.7

12.28 k = .3

Plate I 11055 taken May 8, 1894

r 0 n 12.21 v = 12.21

Plate C 6857 taken June 21, 1894

rm. S. v = 12.8

12.72 k = .1

Plate C 6927 taken July 30, 1894

11.92 h 5 r 12.42 12.28 v = 12.35 0.7 0.7

12.28 r 1 k 12.38

Plate C 7060 taken Sept. 28, 1894

9.53 b 4 r 9.93 10.10 v = 9.93 0.9 0.8

10.10 r 2 d 10.30

Plate C 7061 taken Sept. 29, 1894

9.53 b 5 r 10.03 10.20 v = 10.12 0.9 0.8

10.30 r 1 d 10.30

Plate I 11522 taken Oct. 1, 1894

9.53 b 5 r 10.03 10.20 v = 10.12 0.9 0.8

10.20 r 1 d 10.30

Plate I 11713 taken Oct. 18, 1894

9.53 b 4 r 9.93 10.10 v = 10.02 0.7 0.8

10.10 r 2 d 10.30

edge of plate

Reduced, March 25, 1916

8.7 m.

March 25, 1896

Plate C 7165 taken ^{R Camel, cont.} Oct. 29, 18949.53 b 3 r 9.83 10.00 $v = 9.92$ 0.9 0.8

10.00 r 3 d 10.30

Plate C 7166 taken Oct. 29, 1894

9.53 b 3 r 9.83 10.00 $v = 9.92$ 0.9 0.8

10.00 r 3 d 10.30

Plate C 7175 taken Oct. 31, 1894

9.53 b 4 r 9.93 10.10 $v = 10.02$ 0.9 0.8

10.10 r 2 d 10.30

Plate C 7191 taken Nov. 3, 1894

9.53 b 3 r 9.83 10.00 $v = 9.92$ 0.9 0.8

10.00 r 3 d 10.30

Plate I 11825 taken Nov. 10, 1894

9.53 b 5 r 9.10.03 10.20 $v = 10.12$ 0.9 0.8

10.20 r 1 d 10.30

Plate I 11826 taken Nov. 10, 1894

9.53 b 6 r 10.13 10.20 $v = 10.16$ 0.3 0.4

10.20 r 1 d 10.30

Plate I 11827 taken Nov. 10, 1894

9.53 b 7 r 10.03 10.20 $v = 10.12$ 0.9 0.8

10.20 r 1 d 10.30

Plate I 11848 taken Nov. 11, 1894

10.30 r 0 d 10.30 $v = 10.30$

Plate C 7346 taken Dec. 17, 1894

10.81 f 0 r 11.81 11.21 $v = 11.26$ 0.5 0.5

11.21 r 1 f 11.31

March 25, 1896

Plate I 12272 taken Jan. 29, 1895

13.32 m 1 r 13.42 $v = 13.42?$

0 n.s.

Plate I 12290 taken Feb. 6, 1895

r n.s. $v < 11.8$ Plate I 11522 taken ^{Feb. 20} Oct. 3, 1894⁵r n.s. $v < 13.4$

Plate C 7592 taken Mar. 8, 1895

f 1 r

r 0 d

defect in plate

r n.s. $v \approx 12.0$

Plate C 7680 taken April 16, 1895

13.32 m 2 v 13.52 $v = 13.52?$

0 n.s.

Plate C 7681 taken April 16, 1895

13.32 m 2 v 13.52 $v = 13.52?$

0 n.s.

Plate C 7709 taken April 17, 1895

13.32 m 3 r 13.62 $v = 13.62?$

0 n.s.

Plate C 7787 taken May 2, 1895

12.38 b' 2 r 12.58 12.52 $v = 12.55$ 0.3 0.3

12.52 r 2 k 12.72

Images
very
faint

Reduced March 25, 1916
24.7.7m.

March 25, 1896

Plate C 7708 taken May 2, 1895
R Campbell
12.31 r o L 12.38 v = 12.35?Images
very faintPlate I 12768 taken May 2, 1895
v o K 12.72 v = 12.72

Edge of plate

Plate I 12789 taken May 3, 1895
v o K 12.72 v = 12.72extreme edge
of platePlate I 12839 taken May 7, 1895
v o K 12.38 v = 12.38extreme edge
of platePlate I 12935 taken May 29, 1895
11.31 f 1r 11.41 11.26 v = 11.34 07. 08
11.26 r s g 11.76Plate C 7967 taken July 11, 1895
9.53 b 2 v 9.73 9.80 v = 9.76 02. 04
9.80 r s d 10.30Plate C 7995 taken July 18, 1895
r o d 10.30 v = 10.30

edge of plate

Plate I 13106 taken July 26, 1895
9.53 b 1 r 9.63 9.80 v = 9.72 09. 08
9.80 r s d 10.30Plate C 8119 taken Aug 14, 1895
9.53 b 2 v 9.73 10.10 v = 9.82 09. 08
10.10 r 2 d 10.30Reduced March 25, 1916
24.7.7m.

March 25, 1896

Plate C 8194 taken Aug. 30, 1895
10.30 d 5 v 10.80 10.64 v = 10.72 08. 09
10.64 r 3 d 10.94Plate C 8239 taken Sept. 4, 1894
10.30 d 7 v 11.00 10.84 v = 10.92 08. 09
10.84 r 1 d 10.94Plate C 8270 taken Sept. 13, 1895
10.94 r o L 10.94 v = 10.94Plate C 8326 taken Oct. 1, 1895
11.76 r o g 11.76 v = 11.76Plate I 13602 taken Oct. 1, 1895
11.76 r o g 11.76 v = 11.76Plate C 8358 taken Oct. 18, 1895
12.38 b 6 v 12.78 12.62 v = 12.80 18. 18
12.62 r 1 K 12.72Plate C 8379 taken Oct. 18, 1895
12.38 b 7 v 13.08 12.62 v = 12.85 23. 23
12.62 r 1 K 12.72Plate C 8508 taken Nov. 27, 1895
r o s v = 136Plate C 8545 taken
12.32 r s 3Plate I 14044 taken Dec. 14, 1895
not on plate

Reduced March 25, 1916
S.F.M.

March 25, 1896

R. L. Campbell

Plate C 8619 taken Dec. 17, 1895

r.m.s.

 $v < 13.4$ $13.32 \quad m = .1$

Plate C 8676 taken Dec. 22, 1895

r.m.s.

 $v < 13.4$ $13.26 \quad k = .1$

Plate I 14216 taken Jan. 6, 1896

r.m.s.

 $v < 12.8$ $12.72 \quad k = .1$

Plate C 8806 taken January 30, 1896

r.m.s.

 $v < 13.4$ $13.26 \quad k = .1$

Plate C 8894 taken Feb. 22, 1896

 $11.31 \quad f = 6 \quad v \quad 11.91 \quad 11.66 \quad v \quad 11.78 \quad 13 \quad 12$ $11.66 \quad r \quad 12 \quad 11.76$

Plate I 14486 taken Feb. 22, 1896

r.m.s.

 $v = 11.76$

April 9, 96 Plate C 8994 taken March 27, 1896

r.o.e. 10.94

 $v = 10.94$

April 24, 96 Plate C 9008 taken April 15, 1896

r.o.f. 10.81

 $v = 10.81$

very poor plate

Plate C 9059 taken April 15, 1896

r.o.f. 10.81

 $v = 10.81$

Continued page 113

Reduced Dec. 23, 1917
S.F.M.

March 30, 1896

Continuation of estimates of the brightness of
R. Lynceus from previous vol. page 142

Plate I 344 taken Dec. 19, 1889

r.m.s. < 12.08 $13.73 \quad 11.98 \quad r = .1$

Plate I 1068 taken April 20, 1890

 $r.o.f. \quad 13.95 \quad 11.92$

Plate I 3390 taken Feb. 18, 1891

 $11.26 \quad 0' \quad 4 \quad v \quad 11.66 \quad 11.46 \quad v = 11.56 \quad 10 \quad 10$ $11.46 \quad r \quad 2 \quad 11.66$

near edge

images

scattered

Plate I 7050 taken Sept. 15, 1892

 $r.o. \quad 13.24 \quad 11.26$

Plate I 8145 taken Feb. 28, 1893

r.m.s. $r < 13.23$ $13.03 \quad 11.62 \quad g = .2$

near

edge of plate

Plate I 8478 taken April 26, 1893

 $r.o.m. \quad 11.11 \quad 11.54$

Plate I 13026 taken Nov. 24, 1893

r.m.s. $r < 13.13$ $13.03 \quad 11.62 \quad g = .1$

Plate I 10104 taken Dec. 1, 1893

r.m.s. $r < 13.93$ $13.73 \quad 11.98 \quad r = .2$

Reduced Dec. 23, 1914
9.7.m.

March 30, 1896

Plate C 806 & later taken Feb. 20, 1896
R. Lynce's cut

r.m.s. $r = 11.36$
 12.24
 11.26 0.60°
 $= .1$

Plate C 8922 taken Feb. 27, 1896

r.m.s. $r = 12.32$
 14.42
 12.22 $\Delta = .1$

Plate C 8989 taken March 27, 1896

11.26 0.3° $r = 11.56$ 11.56 0.0

11.06 $r = 11.66$

Plate C 9049 taken April 10, 1896

11.71 0.0° $r = 11.24$ 11.24 0.05
 10.93 0.5° $r = 11.24$ 11.24 0.18
 12.04 0.2° $r = 11.24$ 11.24 0.18
 11.06 $r = 11.26$

Plate C 9048 taken April 10, 1896

11.71 0.0° $r = 11.24$ 11.24 0.05
 11.03 0.5° $r = 11.24$ 11.24 0.18
 12.04 0.2° $r = 11.24$ 11.24 0.18
 11.06 $r = 11.26$

Plate C 9067 taken April 10, 1896

11.71 0.0° $r = 11.24$ 11.24 0.05
 10.93 0.5° $r = 11.24$ 11.24 0.18
 11.94 0.2° $r = 11.24$ 11.24 0.18
 10.96 $r = 11.26$

Plate C 9122 taken April 27, 1896

$r = 11.68$

Plate I 14737 taken March 27, 1896

0.60° $r = 11.68$

$r = 11.68$

Plate I 14754 taken March 27, 1896

$r = 11.68$

Continued IV p. 39

April 24, 1896

Images faint

May 9, 1896

June 9, 1896

Edges of plate

Reduced April 13, 1915 21
9.7.m.

April 2

March 31, 1896

Additional measures of R. Quigley, continued from Vol 2, page 116.

Exposure edge

Plate I 771 taken March 7, 1890

$r = 10.36$ $v = 10.36$
 11.62

Plate I 772 taken March 7, 1890

10.36 1° $r = 10.36$ 11.62 11.62 11.62

Plate I 5487 taken Jan. 31, 1892

$r = 9.70$ $v = 10.98$

Plate I 7864 taken Jan. 8, 1893

9.63 9.75 9.84 $r = 9.64$ 11.62

Plate I 7932 taken Jan. 21, 1893

8.66 8.66 8.66 $r = 8.66$ 11.62

Plate I 10232 taken Dec. 20, 1893

10.98 11.78 10.98 $r = 10.98$ 11.62

Plate I 12050 taken Dec. 6, 1894

9.70 9.70 9.70 $r = 9.70$ 11.62

Plate I 12515 taken March 16, 1895

9.70 9.70 9.70 $r = 9.70$ 11.62

Plate I 12515 taken March 16, 1895

9.70 9.70 9.70 $r = 9.70$ 11.62

Plate I 12515 taken March 16, 1895

9.70 9.70 9.70 $r = 9.70$ 11.62

Edges of plate. Images defective.

Reduced April 13, 1910
P.F.M.

April 2, 1896

R Amargos continued

Plate C 8867 taken Feb. 20, 1896

r.m.s. $v < 10.9$
9.69 $h = .1$

Plate C 8921 taken Feb. 27, 1896

r.m.s. $v < 13.6$
11.62 $h = .1$

Plate C 8943 taken March 10, 1896

r.m.s. $v < 13.3$
12.06 $h = .2$

p.m.s.

Plate C 8951 taken March 13, 1896

r.m.s. $v < 12.4$
10.74 $h = .3$

Plate C 8952 taken March 13, 1896

r.m.s. $v < 13.34$
11.45 $h = .1$

Plate C 8982 taken March 24, 1896

r.o.t. 12.06 $v = 14.65$

May 7, 1896

Plate C 9066 taken April 15, 1896

r.m.s. $v < 12.0$
11.92 $h = .1$

Plate I 14894 taken April 15, 1896

r.m.s. $v < 12.2$
12.10 $h = .1$

Plate I 14895 taken April 11, 1896

r.m.s. $v < 11.7$
11.6 $h = .1$

Continued III p. 38

Reduced Oct 2, 1910
S.F.

April 2, 1896

Continuation of measures of brightness of
R Leonis from I page 104

Plate C 8541 taken

Plate C 8649 taken Dec. 20, 1895
r.o.k. 7.63 $T = 7.97$ Plate C 8672 taken Dec. 22, 1895
7.63 K 12 7.73 7.76 $T = 7.74$.02 .01
7.38
7.76 r.s.l. 8.26 Plate C 8693 taken Dec. 31, 1895
8.26 l 12 8.36 8.20 $T = 8.28$.08 .08
8.24
8.20 v 5 n 8.70 Plate C 8789 taken Jan. 30, 1896
8.26 l 5 r 8.76 8.60 $T = 8.68$.08 .08
8.24
8.60 v 1 m 8.70 Plate C 8790 taken Jan. 30, 1896
8.26 l 5 r 8.76 8.60 $T = 8.68$.08 .08
8.24
8.60 v 1 m 8.70 Plate C 8810 taken Jan. 30, 1896
r.o.n. 2.87 $T = 9.34$?

Images were shadows on plate

Apr. 9

Plate C 8913 taken March 31, 1896
10.5
10.6 O 1 r 10.6 10.58 10.70 10.10 $T = 10.11$.05 .05
10.54
10.56 v 1 r 10.16

Continued III p. 41

April 2, 1896

Resumed July 2, 1896
CRContinuation from I p 178 of measures of
brightness of γ Cepheiedge of plate
Images of very
different qualityPlate I 13471 taken Sept. 8, 1895
 $r = 2.2$ 7.51 $v = 7.51$ Plate C 8359 taken Oct. 10, 1895
 6.54 d $1 \times$ 6.64 $v = 6.85$

L to near edge for comparison

Plate C 8647 taken Dec. 20, 1895

 8.18 L $1 \times$ 8.28 8.18 $r = 8.23$ $.05$ $.05$ 8.84 v $4 \times$ 8.58 $v = 8.86$ $.02$ $.02$

Plate C 8797 taken Jan 30, 1896

 9.23 m $4 \times$ 9.43 9.00 $r = 9.56$ $.07$ $.06$ 9.50 r 20 9.70 $v = 10.31$ $.03$ $.03$

Plate I 14407 taken Jan. 30, 1896

 9.23 m $2 \times$ 9.73 9.30 $r = 9.36$ $.07$ $.06$ 9.30 v 40 9.70 $v = 10.11$ $.03$ $.03$

Plate C 8814 taken Feb. 8, 1896

 10.08 r 0 9.70 $v = 10.48$

Plate C 8815 taken Feb. 8, 1896

 10.48 r 00 9.70 $v = 10.48$

Plate C 8870 taken Feb. 20, 1896

 10.71 9.70 0 $4 \times$ 10.10 9.81 $r = 9.96$ $.14$ $.15$ 10.62 9.81 r 40 10.21 $v = 10.75$ $.13$ $.13$

Continued page 136

April 3, 1896.

Continuation from II p 76 of measures
of the brightness of δ Persei.Plate F 8799 taken January 30, 1896
 r 0 L 10.48

Plate C 8861 taken Feb. 17, 1896

 10.48 L $1 \times$ 10.68 10.27 $r = 10.42$ $.16$ $.15$ 10.27 r 6 m 10.87

Plate C 8866 taken Feb. 20, 1896

 r m s $r = 8.98$ 8.78 $f = .2$

Plate I 14617 taken March 9, 1896

 r 0 L 10.48

Image of plate

Plate I 14691 taken March 24, 1896

 10.06 K $3 \times$ 1 10.48 L $1 \times$ 2

Plate C 8778 taken March 24, 1896

 r 0 L 10.48

May 7, 1896

Plate C 9085 taken April 16, 1896

 v m s $9 = .1$

Plate C 9120 taken April 27, 1896

 K $2 \times$ r 1 L

June 9, 1896

Plate C 15048 taken May 1, 1896

 K $1 \times$ r 2 L

Cont II p. 80

April 3, 1896

Continuation from I p. 92 of measures of
brightness of γ Cassiopeiae

Plate C 8798 taken Jan. 30, 1896

9.44 δ 4 γ 9.84 9.73 $r = 9.78$.06 .059.73 γ 1 δ 9.83

Plate C 8760 taken Feb. 17, 1896

9.44 δ 5 γ 9.94 9.73 $r = 9.84$.11 .119.73 γ 1 δ 9.83

Plate C 8865 taken Feb. 20, 1896

 γ n. s. $r < 9.08$ $\delta = 3$

Plate I 14617 taken March 9, 1896

9.44 δ 4 γ 9.84 9.73 $r = 9.78$.06 .059.73 γ 1 δ 9.83

Plate I 14691 taken March 24, 1896

9.44 δ 2 γ 9.64 9.53 $r = 9.58$.06 .059.53 γ 3 δ 9.83

Plate C 8970 taken March 24, 1896

9.44 δ 3 γ 9.74 9.63 $r = 9.68$.06 .059.63 γ 2 δ 9.83

Plate C 9122 taken April 27, 1896

 δ 2 γ γ 1 δ

Cont IV p. 82

Ephemeris
Corner of plate
CEphemeris
corner -

Reduced June 22, 1915

April 3, 1896

Continuation from Vol I p. 152 of estimates
of brightness of γ Cassiopeiae

Plate C 8742 taken January 11, 1896

 γ 0 δ 2 γ 11.32? $v = 11.62?$ Images scarcely seen - exact comparison almost
impossible. Defect streamer. Var. not seen. W.S.L. Aug. 9, 1915

Plate C 8724 taken Feb. 12, 1896

11.02 δ 3 γ 11.32 $v = 12.53?$ δ n. s.

Images extremely faint

Plate C 8825 taken Feb. 12, 1896

11.02 δ 4 γ 11.42 $v = 12.63?$ δ n. s.

Plate C 8802 taken Feb. 24, 1896

 γ n. s. $r < 10.50$

11.32

10.40

 $\delta = .1$ $v < 11.4$

Plate C 8976 taken March 24, 1896

11.32

10.40

 δ 5 γ

10.80

10.78

 $r = 10.84$

.06 .06

11.69

10.78

 γ 1 δ

10.85

 $v = 11.86$

.04 .03

June 9, 96 Plate I 13907 taken Nov. 28, 1895

 γ 0 n

11.05

 $v = 11.05$

Plate C 9152 taken April 30, 1896

10.56 n 3 γ

10.86

10.65

 $v = 10.76$

.10 .11

10.65 γ 4 n

11.05

Continued IV p. 77

Reduced June 22, 1910
Reduced March 1, 1916 $\Sigma f. m.$

April 3, 1896

Continuation from II page 12 of estimates of brightness of Cassiopeae.

Plate C 8743 taken Jan. 11, 1896

$r = 11.98$ 10.58 $v = 11.98$

What then measured as v may be a defect in the plate although it occupies the exact place of v from plate. Very faint images.

Plate C 8801 taken January 30, 1896

$r = 11.98$ 10.58 $v = 11.98$

Plate C 8864 taken February 20, 1896

$r = 11.98$ 10.58 $v = 11.98$

Plate C 8809 taken Feb. 22, 1896

$r = 11.98$ 10.58 $v = 11.98$

Plate C 8809 taken Feb. 22, 1896

$r = 11.98$ 10.58 $v = 11.98$

Plate C 8977 taken March 24, 1896

$r = 11.98$ 10.58 $v = 11.98$

May 6, 96 Plate C 9082 taken April 16, 1896

$r = 11.98$ 10.58 $v = 11.98$

Continued p. 39

Reduced June 22, 1910
Reduced March 1, 1916 $\Sigma f. m.$

April 5, 1896

Reexamination of three plates of Cassiopeae from I to 156, because a comparison star was used which was not included in the list of stars of which I derived the magnitudes.

* Plate C 8464 taken Nov. 6, 1895

$r = 9.66$

Plate C 8444 taken Nov. 3, 1895

$r = 9.66$

$r = 9.66$

* Plate C 8468 taken Nov. 11, 1895

$r = 9.66$ $v = 10.56$

* These measures rejected, since the comparison star mentioned above (evidently β) has now a magnitude, ~~and~~ belonging to the set of final magnitudes (see sheet 9 of ten magnitudes of comp. stars for γ Cass.) with which all measures of this variable are now being reduced. These measures, besides, are made with only one comparison star, whereas for those in Bk. I, p. 156, two comparison stars are used.

"H.S.L." June 22, 1910

Retain C 8444 and take mean of this and earlier measures.

Reject C 8464

Obtain another observation on C 8468 Oct. 26, 1915

April 6, 1896

Measure of the brightness of O.C. Her-
dell's companion stars to R. Draconis.

Plate I 3179 taken Feb. 23, 1891

Superseded

a	6.1	6.5
b	6.1	6.5
c	6.1	6.5
d	5.9	6.3
e	6.4	6.7
f	6.8	7.1
g	6.7	7.0
h		7.4
i		8.0
j		8.3
k		8.3
l		8.8
m		9.0
n		9.8
o		9.7
p		10.0
q		10.2
r		10.4
s		10.4 ²
t		10.5
u		10.5
v		10.0

All the fainter stars down to about
magnitude 10.5 have trails

April 6, 1896

Plate I 8141 taken Feb. 27, 1893

a	5.3	5.6	Superseded
b	5.3	5.6	
c	5.5	5.8	
d	5.1	5.4	Very poor image " " "
e	5.3	5.7	
f	5.9	6.2	
g	5.8	6.1	
h	6.1	6.4	
i	6.9	7.2	
j		7.7	
k		7.6	
l		7.9	
m		8.5	
n		9.2	poor (focus bad). Measure uncertain
o		9.3	
p		10.0	
q		10.6 ²	
r		10.6 ²	
s		10.6 ²	
t		10.4 ²	
u		10.5	
v		10.5	
w		9.2	

All images below of the magnitude are very
poor (focus bad). Measure uncertain

April 6, 1896

R. Dear. Cont.

Plate I 13233 taken Aug. 16, 1895

Superfused

a	6.7	7.0
b	6.8	7.1
c	6.6	6.9
d	6.7	7.0
e		7.5
f		7.9
g		7.6
h		8.0
i		8.5
j		8.6
k		8.6
l		8.7
m		9.0
n		9.3
o		9.5
p		9.5
q		10.0
r		10.1
s		10.1
t		10.5?
u		10.5?
v		n.s.
w		n.s.
x		9.0

Several images of each star, with trails. The trails disappear with the fainter stars and the images are especially clear and susceptible of accurate measurement.

April 6, 1896

Plate I 14403 taken January 30, 1896

Superfused

a	6.4	6.7
b	6.6	6.9
c	6.6	6.9
d	6.0	6.3
e	6.7	7.0
f		7.4
g		7.0
h		7.4
i		8.1
j		8.6
k		8.6
l		8.8
m		9.2
n		9.7
o		10.0
p		10.0
q		10.4?
r		10.4?
s		10.4?
t		10.2?
u		10.2?
v	6.0	6.3
w		
x	6.0	6.3

Double images and trails

Reduced Dec. 15, 1910
8.7 m.

April 6, 1896

Estimate of the brightness of R Dra-
conis.
d a f c e g f h^k k l m n o p q r s t
Comparison plate of OC. model arranged in
order of photographic brightness

Plate I 1103 taken April 29, 1890

r m. s. $v < 12.7$
12.48 $p = .2$

Plate I 1776 taken Sept. 2, 1890

8.91 g 2 r 9.11 9.20 $v = 9.16$.05 .04
9.20 r 1 f 9.30

Plate I 1900 taken Sept. 29, 1890

9.54 h 1 r 9.64
9.10 r 2 f 9.30

Plate I 2087 taken Oct. 28, 1890

v o k 10.32 $v = 10.32$

Plate C 3345 taken Jan. 23, 1891
Not on plate

Plate C 3441 taken February 13, 1891

10.82 n 5 v 11.32 11.47 $v = 11.40$.08 .07
11.47 r 1 o 11.57

Reduced Dec. 15, 1910
8.7 m.

April 6, 1896

Plate I 3179 taken Feb. 22, 1891

Plate I 3170 taken Feb. 22, 1891

12.68 g 2 r 12.88 13.20 $v = 13.04$.16 .16
13.20 r 1 k 13.30

Plate C 3541 taken March 5, 1891

11.57 o 2 r 11.77 $v = 11.77$? 4.

p n. s.

Very dark plate

Plate C 3595 taken March 29, 1891

10.01 v o k 10.01 $v = 10.01$.2 .2

Plate C 3610 taken April 6, 1891

9.54 h 4 v 9.94 9.91 $v = 9.92$.02 .02
9.91 v 1 k 10.01

Plate C 3623 taken April 9, 1891

9.30 f 1 v 9.40 9.34 $v = 9.37$.03 .03
9.34 r 2 k 9.54

Plate C 3632 taken April 13, 1891

9.30 v o f 9.30 $v = 9.30$

Reduced Dec. 15, 1915
M.F.M.

April 6, 1896

R. Drac.

Plate C 3648 taken April 24, 1891

9.00	r 3	9.30	9.00	8.34	v = 8.67	33	33
7.84							
Re. a 5 v		8.34					

Plate C 3690 taken May 3, 1891

8.91	g 2 v	9.11	9.20	v = 9.16	04	04
9.20	r 1 f	9.30				

Plate C 3980 taken September 20, 1891

v 0 u 13.90 v = 13.90 a .

Plate C 4787 taken June 6, 1892

v n. s. v < 12.8

12.68 q = .1

Plate C 4788 taken June 6, 1892

v n. s. v < 11.8

11.57 i = .2

Plate C 4817 taken June 15, 1892

v n. s. v < 14.0

12.90 u = .1

Plate C 4878

v n. s.

v < 12.8

12.68 q = .1

Reduced Dec. 15, 1915
M.F.M.

April 6, 1896.

Plate I 8141 taken Feb. 27, 1893

12.68	g 3 v	12.98	13.10	v = 13.04	06	06
12.10	r 2 e	13.30				

Plate C 5607 taken June 18, 1893

8.06	c 4 v	8.46	8.81	v = 8.64	12	11
8.81	r 1 g	8.91				

Plate C 5608 taken June 18, 1893

8.06 c 4 v 8.46 9.10 v = 8.78 22 22

g not on plate

9.10	r 2 f	9.30				
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Plate C 5622 taken June 29, 1893
nucleus - nothing on plate

Plate C 5633 taken June 23, 1893

v not a f 9.30 v = 9.30 a .

Plate C 5659 taken July 2, 1893

v o f 9.30 v = 9.30 a .

Plate C 5814 taken Aug 2, 1893

v o o 11.57 v = 11.57 a .

Plate I 9197 taken Aug. 13, 1893

10.82	m 4 v	11.22	11.37	v = 11.30	08	07
11.37	r 2 o	11.57				

Reduced Dec. 15, 1910
21.7 m.

April 6, 1896

R. Dine.

Plate I 9216 taken Aug. 14, 1893
To chin to edgeedge of plate
Plate I 9217 taken Aug. 14, 1893
10.82 n 5 v 11.32 11.47 v = 11.40 08 07
11.47 r 10 11.57edge of plate
Plate I 9218 taken Aug. 14, 1893
10.82 n 5 v 11.32 11.47 v = 11.40 08 07
11.47 r 10 11.57

Plate I 9219 taken Aug. 14, 1893

Plate C 5965 taken Sept. 9, 1893
12.68 q 4 v 13.08 v = 13.08 ? 7.
r n. s.Plate C 6098 taken Oct. 16, 1893
v 0 k 13.90 v = 13.90 ?
Edges extremely faintPlate C 6393 taken Dec. 26, 1893
v 0 k 9.54 v = 9.54Plate C 6717 taken April 20, 1894
r n. s. v < 11.8
0 = .2Reduced Dec. 15, 1910
21.7 m.

April 6, 1896

Plate C 6748 taken May 9, 1894
12.68 q 1 v 12.78 v = 12.78 ? 7.
r n. s. s hidden by a scratchPlate C 6839 taken June 13, 1894 -
13.80 r 2 v 13.50 13.71 v = 13.60 10 11
13.91 v 3 t 14.01Plate C 6840 taken June 13, 1894
r n. s. v < 13.4
2 = .1Plate C 6929 taken July 30, 1894
v 0 0 11.57 v = 11.57Plate C 6996 taken Aug. 18, 1894
10.32 k 2 v 10.52 10.34 v = 10.43 09 09
10.34 r 3 l 10.64Plate C 7015 taken Sept. 6, 1894
8.06 c 2 v 8.26 8.51 v = 8.38 12 13
8.51 r 4 g 8.91Plate I 11684 taken Oct. 17, 1894
8.06 c 5 v 8.56 8.81 v = 8.68 12 13
8.81 r 1 g 8.91

Reduced Dec. 15, 1915
S.F.M.

April 6, 1896

Plate C 7177 taken Oct. 31, 1894
v of 9.30 v = 9.30 Q.

Plate C 7349 taken Dec. 17, 1894

10.82 n 4 v 11.22 11.27 v = 11.24 02 03
11.27 r 30 11.57

Plate C 7350 taken Dec. 17, 1894

10.82 n 4 v 11.22 11.27 v = 11.24 02 03
11.27 r 30 11.57

Plate C 7556 taken Feb. 20, 1895
r o k 13.90 v = 13.90 ?

Both r and n are such new shadows on the plate that I only know they are there. I cannot compare them. Probably they are of the same magnitude.

Plate C 7711 taken April 17, 1895

10.82 n 1 v 10.92 11.07 v = $\frac{11.00}{10.94}$ $\frac{0.8}{0.6}$ 07
11.07 r 50 11.57

Plate C 7765 taken May 1, 1895
v o k 10.01 v = 10.01 Q.

Plate I 12771 taken May 2, 1891

9.54 h 4 v 9.94 9.91 v = 9.92 02 01
9.91 r 1 k 10.01

near edge
of plate

Reduced Dec. 15, 1915
S.F.M.

April 6, 1896

Plate C 7531 taken May 4, 1895

8.91 g 5 v 9.41 9.20 v = $\frac{9.50}{9.40}$ 2
9.20 r 1 f 9.30 v = 9.24 (Reduced by hypothesis)

Plate C 7939 taken June 15, 1895

8.91 g 2 v 9.11 9.00 v = 9.06 05 06
9.00 r 3 f 9.30

Plate C 7940 taken June 15, 1895

8.91 g 1 v 9.01 8.90 v = 8.96 05 06
8.90 r 4 f 9.30

Plate C 7969 taken July 11, 1895

9.54 h 1 v 9.64 9.61 v = 9.62 02 01
9.61 r 4 k 10.01

Plate C 7997 taken July 18, 1895
r o k 10.32 v = 10.32

Plate C 7998 taken July 18, 1895

10.01 h 2 v $\frac{10.21}{9.81}$ 10.22 v = 10.22 01 00
10.22 r 1 k 10.32

Plate C 8121 taken Aug. 14, 1895

10.82 n 5 v 11.32 11.47 v = 11.40 08 07
11.47 r 10 11.57

Plate I 13233 taken Aug. 16, 1895
r o o 11.57 v = 11.57 Q.

Images
faint

Reduced Dec. 15, 1915
9.7.7m

April 6, 1896

Plate C 8243 taken Sept. 5, 1895
 11.57 05Y 12.07 12.28 $v = 12.18$ 11 10
 12.28 r2p 12.48

Plate C 8271 taken Sept. 13, 1895
 vop 12.48 $v = 12.88$ 12

Plate C 8357 taken Oct. 10, 1895
 v02 13.30 $v = 13.30$ 12

Plate C 8434 taken Oct. 28, 1895
 v02 13.30 $v = 13.30$ 12

Plate C 8495 taken Nov. 21, 1895
 10.82 n 4v 11.22 11.37 $v = 11.30$ 08 07
 11.37 r 20 11.57

Plate C 8547 taken Nov. 30, 1895
 10.66 m 2v 10.86 10.72 $v = 10.79$ 07 07
 10.72 r 1n 10.82

Plate C 8596 taken Dec. 16, 1895
 9.54 23Y 9.84 9.81 $v = 9.82$ 02 01
 9.81 r 2k 10.01

Plate C 8597 taken Dec. 16, 1895
 9.54 23Y 9.84 9.81 $v = 9.82$ 02 01
 9.81 r 2k 10.01

Reduced Dec. 15, 1915
9.7.7m

April 6, 1896

Plate C 8621 taken Dec. 17, 1895
 9.54 23Y 9.84 9.81 $v = 9.82$ 02 01
 9.81 r 2k 10.01

May be
brighter than
a

Plate C 8804 taken January 30, 1896
 v02 2 9.84 $v = 9.84$?

Plate I 14403 taken Jan. 30, 1896
 b 1v
 r 2a

Plate C 8872 taken Feb. 20, 1896
 v0c 8.06 $v = 8.06$ 12

May 2, 1896

Plate C 8899 taken March 28, 1896
 10.81 4.54 16.24 10.12 $v = 10.16$ 05 04
 10.12 r 2k 10.32

Plate C 9073 taken April 15, 1896
 10.82 n 2r 11.02 11.17 $v = 11.10$ 08 07
 11.17 r 40 11.57

Plate C 9101 taken April 22, 1896
 10.82 205Y 11.32 11.37 $v = 11.34$ 02 03
 11.37 r 20 11.57

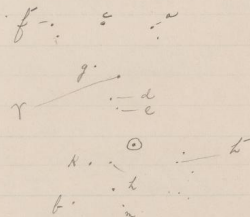
Continued on p. 91

April 7, 1896

Measures of the brightness of the comparison stars (Mr. Hubble's) to R Ursa Minoris.

Plate I 9224 taken Aug. 14, 1893

a	6.6	6.9
b	6.7	7.0
c	6.6	6.9
d	6.7	7.0
e		7.9
f	6.9	7.2
g		8.1
h		8.2
k		8.0
l		8.8
m		8.9
n		9.1
o		9.6
r	5.4	5.7
v		8.2
f		7.7
h		8.6



April 7, 1896

Plate I 13557 taken Sept. 30, 1895

a	8.0	8.0
b	8	8.1
c		8.0
d		8.0
e		9.0
f		8.4
g		9.0
h		9.1
k		9.0
l		9.6
m		9.8
n		10.0
o		10.2
r	6.7	87.0
v		8.8
f		8.8
h		9.5

April 7, 1896

R Ursa Minoris cont.

Plate I 13568 taken Sept. 30, 1895

a	7.6
b	7.8
c	7.6
d	7.8
e	8.8
f	8.1
g	8.9
h	9.0
i	8.9
j	9.7
k	9.6
l	9.7
m	10.0
n	9.7
o	10.0
p	
q	
r	
s	
t	8.8
u	6.1
v	6.4
w	8.4
x	9.6

Plate scratched - magnitude uncertain

The frame of this plate is poor

For C plate see page 141
For I 15084 see II p 20

April 7, 1896

Estimates of the brightness of R Ursa
Minoris -

a c b d f i k g h l m n o

Comparison stars arranged in order of
photographic brightness.

Plate I 1103 taken April 29, 1890

l i v

v i k

Plate I 1776 taken Sept. 2, 1890

r o f

Plate I 2228 taken Nov. 10, 1890

h i v

v 3 k

Plate C 3344 taken Jan. 23, 1891

h i v

v 3 k

Plate C 3439 taken Feb. 10, 1891

v o k

Plate C 3440 taken Feb. 10, 1891

v o k

Images very faint

April 8, 1896

B. H. Min. cont.

Plate C 3534 taken March 1, 1891
v o gPlate C 3540 taken March 5, 1891
l i v
r i k

Plate C 3594 taken March 29, 1891

Plate C 3609 taken April 6, 1891
v o kPlate C 3617 taken April 8, 1891
v o lPlate C 3622 taken April 9, 1891
v o lPlate C 3631 taken April 13, 1891
v o lPlate C 3647 taken April 24, 1891
v o l

April 8, 1891

Plate C 3691 taken May 3, 1891
l 2 v
v i kextreme
edge of plate Plate I 6241 taken May 9, 1891
v o lextreme
edge Plate I 6242 taken May 9, 1891
v o lPlate C 3703 taken May 10, 1891
l i v
v i kPlate C 3981 taken Sept. 20, 1891
l i v
v 4 kPlate C 4069 taken Oct. 17, 1891
l 2 v
v 3 kPlate C 4723 taken May 17, 1892
v o lPlate C 4724 taken May 17, 1892
l i v
v i l

April 7, 1896

Plate C 5721 taken Nov. 3, 1892
 R Her. Min.
 v o k

Plate C 5722 taken Nov. 3, 1892
 v o k

Plate C 5524 taken April 26, 1893
 v o k

Plate C 5525 taken April 26, 1893
 v o k

Plate C 5545 taken May 11, 1893
 k i v
 v i k

Plate C 5546 taken May 11, 1893
 k i v
 v i k

Plate C 5621 taken June 20, 1893
 v o k

Plate C 5658 taken July 2, 1893
 v o k

Plate C 5713 taken Aug. 2, 1893
 v o k

April 7, 1896

exposed
 edge of plate
 Plate I 9223 taken Aug. 14, 1893
 v o k

Plate I 9224 taken Aug. 14, 1893
 k i v
 v i k

Plate I 9252 taken Aug. 15, 1893
 k i v
 v i k

Plate C 5964 taken Sept. 9, 1893
 h 2 v

Plate C 6099 taken Oct. 16, 1893
 v 2 k
 k i v
 v i k

Plate C 6237 taken Nov. 20, 1893
 e i v
 v i k

Plate C 6932 taken Dec. 26, 1893
 v o k

Plate C 6430 taken Jan. 1, 1894
 v o k

April 7, 1896

R. H. Min

Plate C 6676 taken March 30, 1894
 L 2 v
 v 1 K

Plate C 6716 taken April 25, 1894
 v 0 K

Plate C 6746 taken May 3, 1894
 v 0 K

Plate C 6747 taken May 3, 1894
 v 0 K

Plate C 6841 taken June 13, 1894
 v 0 K

Plate C 6928 taken July 30, 1894
 K 1 v
 v 1 K

Plate C 6997 taken Aug. 18, 1894
 K 1 v
 v 1 K

Plate C 7016 taken Sept. 6, 1894
 L 2 v
 v 1 K

April 7, 1896

Plate I 11707 taken Oct. 18, 1894
 L 1 v
 v 1 K

Plate C 7176 taken Oct. 31, 1894
 v 0 K

Plate C 7246 taken Nov. 12, 1894
 L 2 v
 v 1 K

Plate C 7247 taken Nov. 19, 1894
 L 2 v
 v 1 K

Plate C 7555 taken Feb. 20, 1895
 v 0 K

Plate C 7602 taken March 5, 1895
 L 1 v
 v 1 K

Plate C 7611 taken March 5, 1895
 L 1 v
 v 1 K

Plate C 7710 taken April 17, 1895
 v 0 K

April 7, 1896

Plate C 7764 taken May 1, 1895
vohPlate C 7814 taken May 6, 1895
kir
rikPlate C 7829 taken May 7, 1895
vohPlate C 7833 taken May 9, 1895
vohPlate C 7834 taken May 9, 1895
vohPlate C 7916 taken June 10, 1895
l 4 v
l + k not on platePlate C 7968 taken July 11, 1895
f - iv
v 1 lPlate C 7996 taken July 18, 1895
voh

R. H. Min.

April 7, 1896

Plate C 8120 taken Aug. 14, 1895
vohPlate C 8157 taken Aug. 19, 1895
v o fPlate I 13292 taken Aug. 27, 1895
v 1 l
+ too close to edge
exposure
edge of
platePlate I 13293 taken Aug. 27, 1895
vohPlate I 13446 taken Sept. 5, 1895
v n. s.
f = .2
opposite
edge from
I 13292Plate C 8241 taken Sept. 5, 1895
R. H. Min. too near edge of platePlate I 8242 taken Sept. 5, 1895
f 4 v
v 2 l
f not on platePlate I 13556 taken Sept. 30, 1895
f 4 v
v 2 l
exposure
edge
of plate

April 7, 1896

Plate I 13557 taken Sept. 30, 1895
 R. H. S. M. M.
 v o f

Plate I 13567 taken Sept. 30, 1895
 v o f

Plate I 13568 taken Sept. 30, 1895
 v o l
 from p.m.

Plate C 8327 taken Oct. 1, 1895
 f 4
 v 2 l

Plate C 8414 taken Oct. 23, 1895
 v o l

Plate C 8415 taken Oct. 23, 1895
 f 1 v
 v i l

Plate C 8433 taken Oct. 28, 1895
 v o l

Plate C 8509 taken Nov. 27, 1895
 v o l

Plate C 8546 taken Nov. 30, 1895
 v o l

April 7, 1896

Plate C 8620 taken Dec. 17, 1895
 v o k

Plate C 8705 taken Jan. 30, 1896
 v i l

Plate C 8773 taken Feb. 20, 1896
 l 2 v
 v i k

Plate C 8998 taken March 28, 1896
 h i v
 v 2 k

May 7, 1896 Plate C 9072 taken April 15, 1896
 h i v

Plate C 9100 taken April 22, 1896
 v 4 k
 v o h

June 9, 1896 Plate I 15119 taken
 k i v
 v 2 k

Plate I 15171 taken
 v o k

I 15084 taken May 15, 1896
 k i v
 v i k

Guth.

Continued II p. 90

Reduced April 19, 1915
8 f.m.

April 8, 1896

Continuation from II p 189 of determination of the
brightness of δ Ursa MajorisPlate C 8991 taken Mar. 27, 1896
~~not change to comparison with~~
~~rog~~The above observation was made on plate
C 7811 which had been put by mistake
into the envelope for C 8991

April 9, 1896 Plate C 8991 taken Mar. 27, 1896

11.34 m 1 r 11.44 11.74 $v = 11.59$ $\Sigma = 15$

11.74 r 1 m 11.84

Apr. 29, 1896 Plate C 9069 taken April 15, 1896

12.56 v o p 12.56 $v = 12.56$

June 9, 1896 Plate I 15087 taken May 15, 1896

v m, s $v < 12.5$

12.37 o = .1

Plate C 9155 taken April 30, 1896

13.80 v o h 13.80 $v = 13.80$

Plate C 9209 taken May 23, 1896

m, s. $v < 12.8$

12.56 p = .2

Plate C 9210 taken May 23, 1896

v m, s. $v < 13.7$

13.80 u = .1

Continued II p 85

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Reduced April 27, 1915
8 f.m.

April 9, 1896

Continuation from II p 205 of measures of
photographic brightness of δ Ursa Majoris

Plate C 8992 taken March 27, 1896

v o o $\begin{matrix} 12.36 \\ 10.26 \end{matrix}$ $v = 12.36$

Apr. 29, 96 Plate C 9070 taken April 15, 1896

 $\begin{matrix} 10.64 & 10.74 & 10.80 & v = 10.77 & .03 & .03 \\ 9.41 & l & v & 9.57 & 9.35 & v = 9.44 & .07 & .06 \end{matrix}$ $\begin{matrix} 10.80 & 11.00 \\ 9.35 & v & 2 & k & 9.68 \end{matrix}$

Plate C 9113 taken April 24, 1896

v o l $\begin{matrix} 10.64 \\ 9.41 \end{matrix}$ $v = 10.64$

Plate I 15356 taken June 23, 1896

9.34 g 2 v 9.54 9.90 $v = 9.72$ 18 18

9.90 v 3 h 10.20

Plate I 15378 taken June 10, 1896

9.02 f 4 v 9.42 9.24 $v = 9.33$ 07 07

9.24 r 1 g * 9.34

Plate I 15357 taken June 23, 1896

9.34 v o g * 9.34 $v = 9.34$

Plate I 15179 taken May 27, 1896

9.34 * 2 i r 9.44 9.80 $v = 9.62$ 18 18

9.80 r 4 h 10.20

Plate I 15476 taken July 17, 1896

11.00 k 3 r

v 2 l 10.64

Continued II p 86

† Assumed to be
C 9113, as 9114 does
not come, & 9113 agrees
in date and magn.

Sept. 23, 1896

† Assumed to be
I 15277, as 15278 does
not come, & 15277
agrees in date and
magn. Both of regions
taken on same plate.*
g = g' according
to a later design.

See cover of ref.

plate I 17812

Regulation
in Book IV, 107.

April 13, 1896

Continuation from II p 157 of observations on the brightness of R Ursae Majoris.

Plate I ¹⁴⁸²⁴ ~~14824~~ taken April 8, 1896

7.02 a 4v 7.42 8.12 v = 7.77 35° 35°

8.12 v 2h 8.32

April 14, 1896 Plate C 9068 taken April 15, 1896

8.32 v 0h 8.32 v = 8.32

Plate C 9065 taken April 15, 1896

8.32 v 0h 8.32 v = 8.32

Plate C 9064 taken April 15, 1896

8.32 v 0h 8.32 v = 8.32

Plate I 14846 taken April 9, 1896

7.02 a 5v 7.52 8.22 v = 7.87 35° 35°

8.22 v 1h 8.32

Plate I 14910 taken April 15, 1896

8.32 v 0h 8.32 v = 8.32

May 9, 1896

Very poor plate

Plate I 14997 taken April 24, 1896

8.32 v 0h 8.32 v = 8.32 ?

Plate C 9126 taken April 29, 1896

8.32 h 2v 8.52 v = 8.52 ?

No other comparison stars on plate closer to α , which is much too faint for this comparison.

Continued IV p. 40

April 13, 1896

Examination of plates to see whether the comparison stars of R Ursae Majoris, is available

Plate I 838 taken March 17, 1890

f 0 a
f 1 f

Plate I 3170 taken Feb. 22, 1891

a 5 f
f 1 h
f 1 f

Plate I 8316 taken Mar. 29, 1893

f 0 h
f 0 f

Plate I 14824, taken April 8, 1896

f 0 a
f 0 f

These measures show that although I sometimes ^{confuse} α and sometimes h (which two stars are several magnitudes apart) it is yet constantly of about the size or slightly brighter than the star f' close to it. Evidently the apparent variation of f with respect to h and a is caused by its considerable distance (about two degrees) from them. I have not employed it as a comparison star.

April 27, 1896

Measurements to determine the photographic
magnitudes of Mr. C. C. Hendell's companion
stars to β Lynx. II.

Plate II 597 taken Feb. 5, 1890

a	3.8	4.1
b	4.9	5.2
c	5.5	5.8
d	5.8	6.1
e	6.1	6.4
f	6.5	6.8
g		7.5
h		7.9
i		7.4
l x		8.2
m		8.3
n		8.7
o		8.6
p		9.1
q		9.0
r		9.3
s		9.8
t	10.0	10.3
v		
o'	9.1	8.9

Star l' is Mr. Hendell's star l' substituted by him for the
original l.

April 27, 1896

Plate I 344 taken Dec. 19, 1889

a	3.7	4.0
b	4.6	4.9
c	5.0	5.4
d	5.2	5.6
e	5.8	6.1
f	6.0	6.3
g	6.7	7.0
h	7.1	7.4
i		8.0
l l'		8.0
m		8.0
n		8.5
o		8.6
p		9.4
q		9.3
r		10.0
s		10.2
t		10.3
v		10.1
o'		n.s.
		8.9

April 27, 1896

R. Lyman

Plate I 1068 taken April 25, 1890.

a	4.8	5.1	Image much elongated
b	5.7	6.0	
c	6.1	6.4	
d	6.1	6.4	
e	6.7	7.0	
f	7.1	7.4	
g		7.8	
h		8.0	
i		8.7	
j		8.7	
k		8.7	
l		8.6	
m		8.9	
n		8.9	
o		9.2	
p		9.7	
q		9.6	
r		10.1	
s		n.s.	
t		n.s.	
v		7.2	

April 27, 1896

R. Lyman

Plate I 10897 taken Mar. 24, 1894

a	4.2	4.5	Image much elongated
b	5.2	5.5	
c	5.7	6.0	image much elongated
d	5.7	6.0	
e	6.0	6.4	" " "
f	6.4	6.7	" " "
g	6.8	7.1	" " "
h		7.5	
i		8.2	
j		8.1	
k		8.1	
l		8.5	
m		8.5	
n		9.0	
o		9.0	
p		9.7	
q		9.6	
r		10.0	
s		10.2	
t		10.1	
u		n.s.	
v		8.6	

April 27, 1896

Q Lynx

Plate C 6245 taken Nov. 22, 1893.

a	4.9	4.4	4.8
b	not on plate		5.8
c	not on plate		6.3
d	6.5	6.0	5.8
e	6.5	6.0	6.6
f	6.5	6.0	6.7
g		6.8	7.0
h		7.0	7.3
i		8.5	8.6
j		8.4	8.5
k		8.4	8.4
l		9.0	
m		9.0	
n		9.6	
o		9.6	
p		9.8	
q		10.0	
r		10.1	
s		10.1	
t		10.1	
u		10.1	
v		10.1	
w		9.3	

New scale for C plates used for the first time.

April 27, 1896

Q Lynx

Plate C 7123 taken Sept. 13, 1894

a	5.0	4.5	4.9
b			not on plate
c			not on plate
d	6.5	6.0	6.5
e	6.6	6.1	6.6
f	6.7	6.2	6.9
g		7.0	7.1
h		7.7	7.8
i		8.8	8.9
j		8.7	8.9
k		8.7	8.8
l		9.2	
m		9.2	
n		9.5	
o		9.9	
p		9.9	
q		n.s.	
r		n.s.	
s		n.s.	
t		n.s.	
u		9.5	

April 27, 1896

Plate C 7655 taken April 3, 1895 *Rhynchos*

a	5.4	4.9		5.5	
b			not on plate	6.5	6.0
c			not on plate		
d	6.4	5.9		6.5	6.0
e	6.9	6.4		7.0	6.5
f	7.0	6.6		6.7	6.2
g		7.6		7.7	
h		7.9		7.9	
i		8.1		8.7	
j		8.7		8.9	
k		8.7		8.8	
l		9.0			
m		8.9			
n		9.2			
o		9.5			
p		9.6			
q		9.8			
r		10.0			
s		10.0			
t		10.0			
u		10.0			
v		8.9			

April 27, 1896

Plate C 8348³ taken Oct. 6, 1895 *Rhynchos*

a	5.4 ²	4.9 ²		5.5	
b			not on plate		
c			not on plate		
d	6.7	6.0		6.9	6.5
e		6.9			
f		7.1			
g		7.9			
h		8.1			
i		9.0			
j		9.0			
k		8.9			
l		9.1			
m		9.2			
n		9.5			
o		9.7			
p		9.7			
q		10.0			
r		10.1			
s		10.1			
t					
v		9.8			

April 28, 1896

Measurements of magnitudes of companion stars to R Ursae Majoris

Plate I 838 taken Mar. 17, 1890

a	5.8	6.1	
b	6.6	7.0	Image much elongated near edge
c	6.4	6.7	not on plate
d	6.4	6.7	Good image - distant from edge
e			Not on plate
f	5.7	6.0	Near edge
g	6.6	6.9	
h	6.4	6.7	
k		7.5	Near edge - image elongated not near
l		11.7	Good image - not near variable
m		7.9	Image elongated
n		7.9	
o		8.1	
p		8.1	
q		8.0	Image elongated
r		8.1	
s		8.1	
t		8.1	
u		8.1	
v		8.1	
w		8.1	
x		8.1	
y		8.1	
z		8.1	
aa		8.1	
ab		8.1	
ac		8.1	
ad		8.1	
ae		8.1	
af		8.1	
ag		8.1	
ah		8.1	
ai		8.1	
aj		8.1	
ak		8.1	
al		8.1	
am		8.1	
an		8.1	
ao		8.1	
ap		8.1	
aq		8.1	
ar		8.1	
as		8.1	
at		8.1	
au		8.1	
av		8.1	
aw		8.1	
ax		8.1	
ay		8.1	
az		8.1	
ba		8.1	
bb		8.1	
bc		8.1	
bd		8.1	
be		8.1	
bf		8.1	
bg		8.1	
bh		8.1	
bi		8.1	
bj		8.1	
bk		8.1	
bl		8.1	
bm		8.1	
bn		8.1	
bo		8.1	
bp		8.1	
bq		8.1	
br		8.1	
bs		8.1	
bt		8.1	
bu		8.1	
bv		8.1	
bw		8.1	
bx		8.1	
by		8.1	
bz		8.1	
ca		8.1	
cb		8.1	
cc		8.1	
cd		8.1	
ce		8.1	
cf		8.1	
cg		8.1	
ch		8.1	
ci		8.1	
cj		8.1	
ck		8.1	
cl		8.1	
cm		8.1	
cn		8.1	
co		8.1	
cp		8.1	
cq		8.1	
cr		8.1	
cs		8.1	
ct		8.1	
cu		8.1	
cv		8.1	
cw		8.1	
cx		8.1	
cy		8.1	
cz		8.1	
da		8.1	
db		8.1	
dc		8.1	
dd		8.1	
de		8.1	
df		8.1	
dg		8.1	
dh		8.1	
di		8.1	
dj		8.1	
dk		8.1	
dl		8.1	
dm		8.1	
dn		8.1	
do		8.1	
dp		8.1	
dq		8.1	
dr		8.1	
ds		8.1	
dt		8.1	
du		8.1	
dv		8.1	
dw		8.1	
dx		8.1	
dy		8.1	
dz		8.1	
ea		8.1	
eb		8.1	
ec		8.1	
ed		8.1	
ee		8.1	
ef		8.1	
eg		8.1	
eh		8.1	
ei		8.1	
ej		8.1	
ek		8.1	
el		8.1	
em		8.1	
en		8.1	
eo		8.1	
ep		8.1	
eq		8.1	
er		8.1	
es		8.1	
et		8.1	
eu		8.1	
ev		8.1	
ew		8.1	
ex		8.1	
ey		8.1	
ez		8.1	
fa		8.1	
fb		8.1	
fc		8.1	
fd		8.1	
fe		8.1	
ff		8.1	
fg		8.1	
fh		8.1	
fi		8.1	
fj		8.1	
fk		8.1	
fl		8.1	
fm		8.1	
fn		8.1	
fo		8.1	
fp		8.1	
fq		8.1	
fr		8.1	
fs		8.1	
ft		8.1	
fu		8.1	
fv		8.1	
fw		8.1	
fx		8.1	
fy		8.1	
fz		8.1	
ga		8.1	
gb		8.1	
gc		8.1	
gd		8.1	
ge		8.1	
gf		8.1	
gh		8.1	
gi		8.1	
gj		8.1	
gk		8.1	
gl		8.1	
gm		8.1	
gn		8.1	
go		8.1	
gp		8.1	
gq		8.1	
gr		8.1	
gs		8.1	
gt		8.1	
gu		8.1	
gv		8.1	
gw		8.1	
gx		8.1	
gy		8.1	
gz		8.1	
ha		8.1	
hb		8.1	
hc		8.1	
hd		8.1	
he		8.1	
hf		8.1	
hg		8.1	
hh		8.1	
hi		8.1	
hj		8.1	
hk		8.1	
hl		8.1	
hm		8.1	
hn		8.1	
ho		8.1	
hp		8.1	
hq		8.1	
hr		8.1	
hs		8.1	
ht		8.1	
hu		8.1	
hv		8.1	
hw		8.1	
hx		8.1	
hy		8.1	
hz		8.1	
ia		8.1	
ib		8.1	
ic		8.1	
id		8.1	
ie		8.1	
if		8.1	
ig		8.1	
ih		8.1	
ii		8.1	
ij		8.1	
ik		8.1	
il		8.1	
im		8.1	
in		8.1	
io		8.1	
ip		8.1	
iq		8.1	
ir		8.1	
is		8.1	
it		8.1	
iu		8.1	
iv		8.1	
iw		8.1	
ix		8.1	
iy		8.1	
iz		8.1	
ja		8.1	
jb		8.1	
jc		8.1	
jd		8.1	
je		8.1	
jf		8.1	
jj		8.1	
jk		8.1	
jl		8.1	
jm		8.1	
jn		8.1	
jo		8.1	
jp		8.1	
jq		8.1	
jr		8.1	
js		8.1	
jt		8.1	
ju		8.1	
jv		8.1	
jw		8.1	
jx		8.1	
ji		8.1	
jj		8.1	
jk		8.1	
jl		8.1	
jm		8.1	
jn		8.1	
jo		8.1	
jp		8.1	
jq		8.1	
jr		8.1	
js		8.1	
jt		8.1	
ju		8.1	
jv		8.1	
jw		8.1	
jx		8.1	
iy		8.1	
iz		8.1	
ka		8.1	
kb		8.1	
kc		8.1	
kd		8.1	
ke		8.1	
kf		8.1	
kg		8.1	
kh		8.1	
ki		8.1	
kj		8.1	
kk		8.1	
kl		8.1	
km		8.1	
kn		8.1	
ko		8.1	
kp		8.1	
kq		8.1	
kr		8.1	
ks		8.1	
kt		8.1	
ku		8.1	
kv		8.1	
kw		8.1	
kx		8.1	
ky		8.1	
kz		8.1	
la		8.1	
lb		8.1	
lc		8.1	
ld		8.1	
le		8.1	
lf		8.1	
lg		8.1	
lh		8.1	
li		8.1	
lj		8.1	
lk		8.1	
ll		8.1	
lm		8.1	
ln		8.1	
lo		8.1	
lp		8.1	
lq		8.1	
lr		8.1	
ls		8.1	
lt		8.1	
lu		8.1	
lv		8.1	
lw		8.1	
lx		8.1	
ly		8.1	
lz		8.1	
ma		8.1	
mb		8.1	
mc		8.1	
md		8.1	
me		8.1	
mf		8.1	
mg		8.1	
mh		8.1	
mi		8.1	
mj		8.1	
mk		8.1	
ml		8.1	
mm		8.1	
mn		8.1	
mo		8.1	
mp		8.1	
mq		8.1	
mr		8.1	
ms		8.1	
mt		8.1	
mu		8.1	
mv		8.1	
mw		8.1	
mx		8.1	
my		8.1	
mz		8.1	
na		8.1	
nb		8.1	
nc		8.1	
nd		8.1	
ne		8.1	
nf		8.1	
ng		8.1	
nh		8.1	
ni		8.1	
nj		8.1	
nk		8.1	
nl		8.1	
nm		8.1	
nn		8.1	
no		8.1	
np		8.1	
nq		8.1	
nr		8.1	
ns		8.1	
nt		8.1	
nu		8.1	
nv		8.1	
nw		8.1	
nx		8.1	
ny		8.1	
nz		8.1	
oa		8.1	
ob		8.1	
oc		8.1	
od		8.1	
oe		8.1	
of		8.1	
og		8.1	
oh		8.1	
oi		8.1	
oj		8.1	
ok		8.1	
ol		8.1	
om		8.1	
on		8.1	
oo		8.1	
op		8.1	
oq		8.1	
or		8.1	
os		8.1	
ot		8.1	
ou		8.1	
ov		8.1	
ow		8.1	
ox		8.1	
oy		8.1	
oz		8.1	
pa		8.1	
pb		8.1	
pc		8.1	
pd		8.1	
pe		8.1	
pf		8.1	
pg		8.1	
ph			

April 27, 1896

R. H. M. J. cont.

Plate I 8316 taken Mar. 29, 1893

a	5.7	6.0	
b	6.3	6.5	
c	4.7	5.0	Image near edge - distorted
d	5.1	5.4	" " " "
e	5.6	6.3	Image star first measured
f	6.2	6.5	
g	6.7	7.0	
h	6.0	6.6	
k		7.7	Near edge of plate Image from
l	6.7	7.6	" " " " "
m		7.1	
n		7.8	
o		8.0	
p		8.0	
q		8.1	
r		8.5	
s		8.8	
t		9.0	
u		9.5	
v		9.7	
w		9.9	
x		10.1	
y		10.2	
z		m.s.	
z		m.s.	
r		9.3	

April 27, 1896

R. H. M. J. cont.

Plate I 14824⁴⁶ taken April 8, 1896

a	5.2	5.5	
b	6.1	6.4	
c		4.0	
d		5.0	Image much elongated
e		4.0	" " " near edge
f	4.7	5.0	
g	5.9	6.2	
h	5.7	6.0	
k		7.4	
l	6.5	6.8	
m	6.4	6.7	
n	6.8	7.1	
o		7.3	
p		7.6	
q		7.6	
r		8.0	
s		8.1	
t		8.3	
u		8.8	
v		9.2	
w		9.8	
x		10.1	
y		9.3	
z		m.s.	
z		m.s.	
r		5.7	

Images clear, but distorted in shape. They are also rather pale. Measurement difficult

April 28, 1896

R. W. M. J. cont.

Plate C 6224 taken Nov. 16, 1893

a	5.6	5.1	
b			Not on any C plate except 6527
c			" " " "
d			" " " "
e			" " " "
f			" " " "
g			Not on plate
h	6.1	5.6	
k		6.9	Extreme edge
l	6.9	6.5	" " "
m			Not on plate
n		8.0	
o		8.0	
p		8.6	
q		8.8	
r		9.0	
s		9.5	
t		9.6	
u		9.8	
v		10.0	
w			
x		10.2?	
y		n.s.	
z		n.s.	
AA	6.9	6.4	
BB			not on plate
CC		7.7	

April 28, 1896

R. W. M. J. cont.

Plate C 6527 taken Jan. 30, 1894

a	5.9	5.4	
b	6.2?		Image much distorted - near edge
c			not on plate
d			" " "
e			" " "
f			" " "
g			" " "
h	6.5	6.0	
k			not on plate
l			" " "
m			" " "
n		8.0	
o		8.0	
p		8.8	
q		8.9	
r		9.2	
s		9.7	
t		9.8	
u		10.1	
v		n.s.	
w		n.s.	
x		n.s.	
y		n.s.	
z		n.s.	
AA		9.5	
BB			
CC			not on plate
DD		9.0	

April 28, 1896

Plate C 6709 taken April 25, 1894

R. H. M. Maj. Cont.

a	6.1	5.6	
g			Not on plate
h	6.6	6.1	
k			Not on plate
l			" " "
l'	7.7		
m			Not on plate
m'	8.5		
n	7.5		
o	8.7		
p	9.2		This plate not included in ledger
q	9.3		
r	9.5		
s	10.0		
t	10.2		
u	n.s.		
u'	n.s.		
x	n.s.		
y	n.s.		
z	n.s.		
v	n.s.		

April 28, 1896

Plate C 6763 taken May 7, 1894

R. H. M. Maj. Cont.

a	7.8	5.3	
g	6.9	6.4	
h	6.4	5.9	
k			Not on plate
l			" " "
l'	7.2		
m	7.8		
m'	8.0		
n	8.0		
o	8.1		
p	8.8		
q	9.0		
r	9.2		
s	9.7		
t	9.8		
u	9.9		
u'	10.2		
x	n.s.		
y	n.s.		
z	n.s.		
v	10.2		

April 28, 1896 R. Urs. Maj. cont

Plate C 7659 taken April 3, 1895

a	6.0	5.5 ²	
g	6.5	7.0 ²	
h	6.5	6.0	Extreme edge of plate - elongated
k			Not on plate
l			" " "
l'	7.0		
m			Not on plate
m'	7.7		
n	7.9		
o	7.9		
p	8.6		
q	8.8		
r	8.9		
s	9.2		
t	9.4		
u	9.7		
w	9.9		
x	10.2 ²		
y	n.s.		
z	n.s.		
v	8.8		

April 28, 1896

Measures of photographic brightness of
Mr. Thordell's comparison stars to
T. Lucas Meade's

Plate I 5723 taken Feb. 17, 1892

a	4.5	4.8	
b	5.4	5.7	
c	5.5	5.8	
d	5.7	6.1	
e	5.4	5.7	
f	6.1	6.5	
g	5.9	6.3	
h	6.7	7.0	
h'	7.0	7.3	
k		7.8	
l		8.0	
m		8.2	
n		8.3	
o		8.9	
p		8.9	
q		9.1	
q'		9.1	
r		9.3	
t		9.9	
u		9.8	
v		9.9	
x		10.1	
y		10.1	
z		8.8	

April 28, 1896

T. Uss. Maj. cont.

Plate I 3492 taken April 26, 1891
Image elongated

a	5.7	6.0
b	6.0	6.4
c	6.5	6.8
d	6.7	7.0
e	5.6	5.9
f	6.7	7.0
g	6.7	7.0
h		7.6
i		8.0
j		8.2
k		8.4
l		8.7
m		9.0
n		9.2
o		9.3
p		9.6
q		9.7
r		9.9
s		10.1
t		10.2 ²
u		n.s.
v		n.s.
w		n.s.
x		n.s.
y		n.s.
z		8.7

April 28, 1896

T. Uss. Maj. cont.

Plate I 5529 taken Feb. 4, 1892
Image much elongated

a	5.0	5.3 ²
b	5.8	6.0
c	6.1	6.4
d	6.1	6.4
e	5.6	5.9
f	6.5	6.8
g	6.6	6.9
h		7.6
i		8.0
j		8.4
k		8.6
l		8.8
m		9.0
n		9.2
o		9.3
p		9.7
q		9.7
r		9.9
s		10.1
t		n.s.
u		n.s.
v		n.s.
w		n.s.
x		n.s.
y		n.s.
z		9.2

April 27, 1896

Ther. Maj. cont.

Plate I 5925 taken March 23, 1892

a	4.6	4.9
b	5.7	6.0
c	5.9	6.2
d	6.0	6.3
e	5.0	5.3
f	6.0	6.3
g	6.0	6.3
h	6.6	6.9
i	6.8	7.1
k	6.6	6.7 7.7
l		7.7
m		8.0
n		8.2
o		8.6
p		8.8
q		9.0
r		9.1
s		9.3
t		10.0
u		10.1
v		10.1
x		n.s.
y		n.s.
v		9.2

April 29, 1896

Ther. Maj. cont.

Plate C 3502 taken Feb. 22, 1891

a ~~5.7~~^{5.6} measured first by midlate
 b Not on any C plate
 c " " "
 d " " "

e	5.7	5.2
f	6.5	6.0
g	6.6	6.1
h	7.1	6.6
i		7.0
k		7.4
l		7.6
m		7.9
n		8.4
o		8.8
p		8.9
q		9.0
r		9.1
s		9.3
t		9.7
u		9.6
v		9.7
x		9.9
y		10.0
v	6.5	6.0

April 29, 1896

Plate C 6225 taken Nov. 16, 1893
 Not on plate

Not on any C plate

" " " " "

a
b
c
d
e 6.0 5.5
f 7.0 6.5
g 6.6 6.1
h 7.6
i 8.0
j 8.4
k 8.7
l 9.0
m 9.4
n 9.4
o 9.4
p 9.4
q 9.5
r 9.7
s 9.9
t 9.9
u 10.0
v 10.2
w 10.2
x 10.2
y 10.2
z 10.2
V 7.0 6.5
g 7.6²

Not on plate

April 29, 1896

Plate C 6517 taken Jan. 25, 1894
 Not on plate

a
b 6.0 5.5
c 7.0 6.5
d 6.9 6.4
e 7.3
f 7.7
g 8.0
h 8.4
i 8.7
j 9.1
k 9.4
l 9.5
m 9.5
n 9.6
o 9.7
p 10.1
q 10.0
r 10.3
s 10.3
t 10.3
u 10.3
v 10.3
w 10.3
x 10.3
y 10.3
z 10.3

April 29, 1896

Plate C 7172 taken Oct. 31, 1894
 Not on plate

Thes. Maj. cont

a	
b	
c	
d	
e	6.3
f	5.8
g	6.7
h	6.6
i	8.0
j	8.6
k	8.9
l	9.3
m	9.7
n	9.9
o	9.9
p	9.9
q	10.0
r	10.0
s	10.1
t	n.s.
u	n.s.
v	n.s.
w	n.s.
x	n.s.
y	n.s.
z	8.7
g-	7.7

This plate not included in ledger

April 29, 1896

Plate C 7826 taken May 7, 1895
 Not on plate

Thes. Maj. cont

a	
b	6.1
c	5.6
d	7.0
e	6.6
f	6.7
g	7.5
h	8.1
i	8.4
j	8.7
k	9.0
l	9.3
m	9.6
n	9.7
o	9.7
p	9.7
q	9.8
r	9.9
s	10.0
t	10.1
u	10.1
v	n.s.
w	n.s.
x	n.s.
y	n.s.
z	6.6

April 29, 1896

Measures of companion stars for δ Ursa
Majoris

Plate I 5723 taken Feb. 17, 1893

a	5.1	5.4
b	5.4	5.7
c	5.6	5.9
d	5.8	6.1
e	5.3	5.6
f	6.0	6.3
g	6.1	6.4
h		7.4
k		8.0
l		7.9
m		8.2
n		8.2
o		8.8
p		8.8
q		9.3
r		9.4
s		10.0
t		10.2
V	6.2	6.5

Companion star c is in the field of δ Ursa Majoris, about
2° distant from δ .

April 29, 1896

S. Ursa Maj., cont

Plate I 3492 taken April 26, 1891

a	6.0	6.3
b	6.1	6.4
c	6.7	7.0
d	6.7	7.0
e	5.5	5.8
f	7.0	7.3
g		7.7
h		8.0
k		8.4
l		8.4
m		8.7
n		8.7
o		8.8 9.0
p		8.7 9.1
q		9.8
r		10.0
s		n.s.
t		n.s.
V		9.4

Observed first the moving stars
for o and p .

April 29, 1896

S Hrs. Mag. ant.

Plate I 5529 taken Feb. 4, 1892

a	5.7	6.0
b	5.9	6.2
c	6.2	6.5
d	6.4	6.7
e	5.6	5.9
f	6.6	6.9
g	7.0	7.4
h		8.1
i		8.6
j		8.5
m		8.9
n		9.2 8.9
o		9.2
p		9.3
q		10.0
r		10.0
s		n.s.
t		n.s.
v		8.0

April 28, 1896

S Hrs. Mag. cont

Plate I 5925 taken March 21, 1892

a	5.4	5.7
b	5.7	6.0
c	5.8	6.1
d	5.9	6.2
e	5.0	5.3
f	5.8	6.1
g	6.1	6.4
h	7.0	7.3
i		7.9
j		7.7
m		8.0
n		8.1
o		8.5
p		8.6
q		9.2
r		9.3
s		10.0
t		10.2
v		7.4

April 29, 1896

S. H. Maj. cont.

Plate C 3504 taken Feb. 22, 1891

a	6.1	5.6
b	6.5	6.0
c	6.6	6.1
d	6.9	6.4
e		
f	7.0	6.5
g		6.7
h		6.9-7.7
k		8.2
l		8.0
m		8.6
n		8.6
o		9.1
p		9.1
q		9.4
r		9.5
s		9.8
t		9.9
v		9.3

Not on any C plate

April 29, 1896

S. H. Maj. cont.

Plate C 6673 taken March 30, 1894

a	6.3	5.8
b	6.5	6.0
c	6.8	6.3
d	6.9	6.4
e		
f	7.0	6.6
g		7.0
h		7.9
k		8.7
l		8.4
m		9.0
n		9.0
o		9.3
p		9.3
q		9.8
r		9.8
s		10.0
t		10.1
v		9.9

Not on plate

April 29, 1896

S. W. H. J. cont.

Plate C 7785 taken May 2, 1895

a	6.6	6.1
b	6.9	6.4
c		6.7
d		7.1
e		
f		7.3
g		7.4
h		
k		8.8
l		8.6
m		9.0
n		9.0
o		9.3
p		9.3
q		9.7
r		9.7
s		9.9
t		10.1
v		8.7

Not on plate

Not on plate

April 29, 1896

Plate C 8808 taken Jan. 30, 1896

a	6.4	5.9
b	6.6	6.1
c	6.9	6.4
d		6.7
e		
f		7.0
g		7.4
h		8.0
k		8.8
l		8.5
m		9.1
n		9.2
o		9.6
p		9.6
q		9.9
r		10.0
s		10.2
t		n.s.
v		9.9

April 30, 1896

Measures of the brightness of the comparison stars to δ Bootis.

Plate B2066 taken Dec. 16, 1887

a	4.0	4.3
b	5.4	5.7
c	6.3	6.6
d	6.7	7.0
e	7.1	7.5
f	6.8	7.1
g		8.0
h		8.0
i		8.2
k		8.4
m		9.0
n		9.4
o		9.4
p		n.s.
q		n.s.
r		n.s.
s		n.s.
t		7.6

April 30, 1896.

 δ Bootis Cent.

Plate I 6098 taken April 13, 1892

a	4.6	4.9
b	5.7	6.0
c	6.6	6.9
d	6.7	7.0
e		7.7
f		7.4
g		8.1
h		8.5
k		8.6
l		8.7?
m		9.1
n		9.4
o		9.6
p		10.0
q		10.1
r		n.s.
s		n.s.
t		7.6

Defect in plate close to l.

April 30, 1896

S. Boott's cont.

Plate I 10797 taken March 14, 1894

a	4.7	5.0
b	6.1	6.4
c	7.1	7.4
d	7.1	7.4
e		8.0
f		7.8
g		8.4
h		8.7
i		8.9
j		9.0
m		9.6
n		10.0
o		10.1
p		10.3?
q		n.s.
r		n.s.
s		n.s.
v		8.7

April 30, 1896

S. Boott's cont.

Plate I 11146 taken May 22, 1894

a	4.8	5.1
b	6.0	6.3
c	7.0	7.3
d	7.0	7.3
e		8.1
f		7.8
g		8.5
h		8.6
i		8.8
j		9.0
m		9.4
n		9.8
o		9.9
p		10.0
q		10.2?
r		n.s.
s		n.s.
v		7.6

April 30, 1896

S Borth's cont

Plate C 3436 taken Feb. 10, 1891

a	4.5	4.0
b	5.9	5.4
c	6.5	6.0

Not on plate

d		
e	1.5	
f	1.0	
g	8.4	
h	8.7	
i	9.0	
j	9.3	
k	9.7	
l	10.0	
m	10.1 ²	
n	n.s.	
o	n.s.	
p	n.s.	
q	n.s.	
r	n.s.	
s	n.s.	

v	n.s.	
---	------	--

April 30, 1896

S Borth's cont

Plate C 6926 taken July 30, 1894

a	5.5	5.0
b	6.6	6.1
c		6.9

Not on plate

d		
e	8.0	
f	7.8	
g	8.8	
h	9.1	
i	9.3	
j	9.6	
k	9.8	
l	10.0	
m	9.9	n.s.
n	9.9	
o	n.s.	
p	n.s.	
q	n.s.	
r	n.s.	
s	n.s.	

v	9.6	
---	-----	--

April 30, 1896

S Bootis cont

Plate C 7434 taken Jan. 17, 1895

a	5.4	4.9
b	6.4	5.9
c		7.0
d		
e		7.7
f		7.6
g		8.4
h		8.9
i		9.0
j		9.2
k		9.5
l		9.7
m		9.8
n		10.0
o		10.2 ³
p		10.4 ²
q		n.s.
r		7.8

Not on plate

Image elongated faint at one end

April 30, 1896

S Bootis cont.

Plate C 8707 taken Jan. 15, 1896

a	5.5	5.0
b	6.3	5.8
c		7.0
d		
e		
f		7.3
g		8.1
h		8.8
i		9.0
j		9.2
k		9.6
l		9.7
m		9.8
n		9.9
o		10.4 ³
p		10.2 ²
q		n.s.
r		8.7

Image elongated

Not on plate

" " "

This plate superseded by Plate C 6714
See Vol 4 p 22

n just observed

May 2, 1896

Measure of the brightness of M.C.C. Wendell's
companion star to β Camelopardalis.

Plate I 2303 taken Nov. 20, 1890		
β	4.7 ²	5.0 ¹
a	6.7	7.0
b		7.6
c		7.5
d		8.0
e		8.5
f		8.3
g		8.6
h		8.8
i		9.0
j		9.2
k		9.3
l		9.9
m		9.9
n		9.8
o		10.1
p		10.1
q		n.s.
r		10.0

Measure too distorted to measure ac-
curacy. Image of a very poor

May 2, 1896

 β Camelopardalis

Plate I 11826 taken Nov. 10, 1894

β	5.4	5.7
a		6.5
b		7.7
c		7.7
d		8.1
e		8.8
f		8.7
g		9.0
h		9.2
i		9.2
j		9.7
k		10.2
m		n.s. - Defect in plate may hide it.
n		10.1
o		n.s.
p		n.s.
q		n.s.
r		8.3

Image poor - faded out in ap-
pearance - focus poor

May 2, 1896

R. Connel. cont.

Plate I 14764 taken March 31, 1896

near center of plate - good image

B	4.0	4.3
a	6.0	6.5
b		7.7
c		7.7
d		8.0
e		8.3
f		8.2
g		8.6
h		8.9
i		8.9
k		9.2
l		9.6
m		9.9
n		9.7
o		9.8
p		n.s.
q		n.s.
r		n.s.
v		8.2

May 2, 1896

R. Connel. cont.

Plate I 14800 taken April 2, 1896

B	4.6	4.7
a	6.5	6.8
b	7.1	7.9
c		7.8
d		8.2
e		8.7
f		8.6
g		9.0
h		9.0
i		9.7
k		10.0
m		10.0
n		9.9
o		n.s.
p		n.s.
q		n.s.
r		8.4
v		8.7
w		9.6

May 2, 1896

B Camilla Crut.

Plate C 6429 taken Jan. 1, 1894
Not on plate

a	
b	7.3
c	7.7.3
d	8.1
e	8.7
f	8.4
g	8.9
h	9.3
i	9.3
j	9.5
k	9.7
l	10.0
m	9.8
n	9.8
o	10.2
p	n.s.
q	n.s.
r	7.9

mercury for & expanded feet

May 2, 1896

B Camilla Crut.

Plate C 7346 taken Dec 17, 1894
Not on plate

a	
b	7.9
c	7.8
d	8.4
e	8.9
f	8.8
g	9.3
h	9.4
i	9.7
j	10.0
k	9.9
l	9.9
m	n.s.
n	n.s.
o	n.s.
p	n.s.
q	n.s.
r	9.0
s	9.0
t	9.6

May 2, 1896

R Camelp cont

Plate C 8270 taken Sept. 13, 1895

Paton plate

a	
b	7.0
c	6.9
d	7.5
e	8.3
f	8.1
g	9.2
h	9.2
i	9.7
k	9.5
m	9.8
n	9.8
o	10.1
p	m.s.
q	m.s.
r	
s	
t	
u	8.1
v	8.8
w	9.5

May 2, 1896

R Camelp cont

Plate C 8326 taken Oct. 1, 1895

Paton plate

a	
b	6.6
c	6.5
d	7.1
e	7.8
f	7.6
g	8.0
h	8.7
i	8.7
k	9.1
l	9.5
m	9.7
n	9.6
o	10.0
p	10.1
q	10.3
r	
s	
t	
u	8.7

May 2, 1896

R Camelopardis.

Plate C 8389 taken Oct. 18, 1895

a	6
f	6.9
c	6.5
d	7.2
e	8.1
g	7.9
h	9.1
i	9.4
k	9.7
l	10.0
m	9.9
n	9.9
o	10.2
p	10.2
q	10.2
r	9.7
s	8.4
t	9.5

This plate not included in ledger

May 2, 1893

Continuation from page 18 of estimates of the brightness of R Camelopardis.

Plate C I 14764 taken Dec. 31, 1896

10.30	d s r	10.80	10.74	v = 10.77	0.2	0.3
10.74	r e l	10.94				

Plate I 14800 taken April 2, 1896

r o f 10.81 v = 10.81

Plate C 9087 taken April 16, 1896

10.30	d s r	10.80	10.71	v = 10.76	0.4	0.5
10.71	r i f	10.81				

Poor plate

Plate I 14912 taken April 15, 1896

10.81	f i r	10.91	10.91	v = 10.91	0.0	0.0
10.91	r 4 f	11.31				

Plate I 14998 taken April 24, 1896

r m e v = 9.6

9.51 C = .1

Plate C 9112 taken April 24, 1896

10.30	d i r	10.40	10.51	v = 10.46	0.6	0.5
10.51	r 3 f	10.81				

Continued II p 89

May 4, 1896

Measure of the magnitudes of Mr.
Hendell's companion stars to ϵ Draconis

Plate I 7141 taken February 27, 1893

	a	5.4	5.7
	b	5.87	5.4 6.0
Poor	c	5.3	5.8
focus	d	5.0	5.4
Images	e	5.6	5.9
difficult	f	5.9	6.1
to meas.	g	5.8	6.1
me	h	6.0	6.3
and re	i	6.4	6.7
ultima	k	6.8	7.1
ertain	l		7.6
	m		7.6
	n		7.7
	o		8.3
	p		9.0
	q		9.2
	r		9.5
	s		10.1
	t		10.1
	u		10.0
	v		m.s.
	w		m.s.
	x		9.7

May 4, 1896

Plate I 3719 taken Feb. 27, 1891

a	6.1	6.4
b	6.5	6.8
c	6.2	6.5
d	5.9	6.3
e	6.6	6.9
f	6.9	7.2
g	6.8	7.1
h		7.4
i		7.7
k		8.0
l		8.2
m		8.2
n		8.5
o		8.9
p		9.0
q		9.5
r		10.0
s		10.0
t		10.3 ²
u		10.2 ²
v		10.3 ²
w		9.8.9

May 4, 1896

R. Drar. cont.

Plate I 13233 taken Aug. 16, 1895

a	6.6	6.9
b	7.0	7.3
c	6.6	6.9
d	6.5	6.8
e	6.	7.4
f		7.6
g		7.3
h		7.8
i		8.2
k		8.4
l		8.6
m		8.6
n		8.8
o		9.0
p		9.6
q		9.8
r		9.9
s		10.1
t		10.3 ¹
u		10.3 ²
v		n.s.
w		n.s.
x		9.0

These are three images of each star, connected by trails. Measures are probably less accurate than they could have been with simple images.

May 4, 1896

Plate I 14403 taken Jan. 30, 1896

a	6.2	6.6
b	6.6	6.9
c	6.4	6.7
d	6.1	6.4
e	6.7	7.0
f	7.0	7.3
g	6.7	7.0
h		7.5
i		7.8
k		8.3
l		8.6
m		8.6
n		8.8
o		9.1
p		9.7
q		9.6
r		10.0
s		10.1
t		10.2
u		10.0
v		n.s.
w		n.s.
x	6.0	6.3

Two images of each star with trails.

May 4, 1896

R. Drac. cont.

Plate C 7350 taken Dec. 17, 1894

a	6.5	6.0
b	Not on plate	
c	6.6	6.1
d	Not on plate	
e	" " "	
f	7.1	
g	7.1	6.7
h	7.4	
k	8.2	
l	8.6	
m	8.7	
n	8.9	
o	9.2	
p	9.6	
q	9.7	
r	10.0	
s	10.1	
t	10.3?	
u	10.3?	
v	10.4?	
w	n.s.	
V	9.0	
k	8.0	

May 4, 1896

Plate C 7969 taken July 11, 1895

a	6.8	6.3
b	Not on plate	
c	6.9	6.4
d	Not on plate	
e	" " "	
f	7.3	
g	6.9	
h	7.7	
k	8.0	
l	8.4	
m	8.6	
n	8.7	
o	8.9	
p	9.1	
q	9.6	
r	9.7	
s	9.9	
t	9.9	
u	10.1	
v	10.0	
w	n.s.	
V	n.s.	
k	n.s.	

May 4, 1896

Plate C 8243 taken Sept. 5, 1895

R Drae. cont.

a	6.1	5.6
b	Not on plate	
c	6.2	5.7
d	Not on plate	
e	" " "	
f	6.9	6.4
g	6.5	6.0
h		6.6
i		7.1
k		7.4
l		7.9
m		7.8
n		7.9
o		8.9
p		9.4
q		9.5
r		9.7
s		9.9
t		10.0
u		10.0
v		10.2
w		n.s.
x		9.3

May 4, 1896

Plate C 8271 taken Sept. 13, 1895

a	6.1	5.6
b	6.8	5.7
c	7.0 ^{6.3}	5.7
d	Not on plate	
e	" " "	
f	7.0	6.5
g	6.5	6.0
h		6.8
i		7.2
k		7.6
l		8.0
m		8.1
n		8.4
o		9.1
p		9.7
q		9.8
r		10.0
s		10.2 ³
t		n.s.
u		n.s.
v		n.s.
w		n.s.
x		9.7

May 6, 1896.

Steamer on C plates of Mr. Wendell's
comparison data to Sloggin.

(For measures of I plates see Vol 2 p 15-8)

Plate C 5644 taken June 30, 1893

a	6.8	6.2	This plate not included in ledger
b		7.9	
c		7.1	
d		7.8	
e		7.84	
f		8.9	
g		7.7	
h		9.9	
k		9.2	
l		9.3	
m		9.5	
n		9.8	
o		9.7	
p		10.1	
q		n.s.	
r		n.s.	
s		n.s.	
t		n.s.	
u		n.s.	
Helix = p		10.1	
v		n.s.	

May 6, 1896

Plate C 6097 taken Oct. 16, 1893

a	6.8	6.3
b		7.4
c		7.0
d		7.4
e		7.0
f		8.6
g		7.5
h		9.5
k		9.0
l		9.0
m		9.1
n		9.9
o		9.6
p		9.8
q		10.0
r		10.0
s		10.2?
t		n.s.
u		n.s.
Helix = p		9.9
v		9.1

Helix =

May 6, 1896.

Scygni cont

Plate C 6363 taken Dec. 20, 1893

a	6.8	6.3
b		7.3
c		7.0
d		7.4
e		7.3
f		8.2
g		8.6
h		9.4
k		8.9
l		8.9
m		9.1
n		9.6
o		9.4
p		9.6
q		9.8
r		9.8
s		9.9
t		10.1
u		n.s.
v		9.6
w		9.7

Near edge - distorted somewhat

Image somewhat elongated

May 6, 1896

Plate C 7123 taken Aug. 14, 1895

Scygni cont

a	7.2
b	8.1?
c	8.0
d	8.3
e	8.0
f	8.9
g	8.3
h	9.6
k	9.1
l	9.1
m	9.3
n	9.7
o	9.5
p	9.7
q	10.1
r	10.2
s	n.s.
t	n.s.
u	n.s.
v	9.8
w	9.1

Image near edge of plate, elongated

This plate is marked 5, but the image, though very bright and clear are slightly and somewhat irregularly elongated. The faintest stars are more intense than the image on the scale. Some measurements, particularly of medium grades are difficult.

May 6, 1896

S Cygni Continued

Plate C8153 taken Aug. 19, 1895

a	6.5	6.0
b		7.1
c		6.8
d		7.3
e		7.0
f		8.0
g		7.1
h		9.7
i		8.9
l		9.0
m		9.3
n		9.8
o		9.4
p		9.8
q		10.2 ¹
r		10.2
s		11.3
t		n.s.
u		n.s.
φ		9.8
v		9.0

May 6, 1896

Remeasurement, with new scale, of
comparison stars to S Cassiopeiae. C plates
only to be measured
Plate C ⁶³⁶⁵ 7265 taken Nov. 22, 1893

a	5.2	4.7
b	6.1	5.6
c	6.2	5.7
e	6.8	6.4
f	6.6	6.1
g	6.4	5.9 ^{6.8}
h		7.3
k		7.2
l		7.3
m		7.2
n		8.9
o		8.1
p		8.9
q		9.1
r		9.0
s		9.3
t		9.8
u		9.8
w		9.7
x		9.9 ¹
y		10.1 ²
v		10.1 ¹

On this and on the three
following plates, I made a mis-
take in the identification of h.
I have measured the correct star
to-day, May 7, 1896.

Stars a, d, h, appear on none of the C plates

May 6, 1896

S Cass. cont.

Plate C 7161 taken Aug. 31, 1895

a	5.7	5.2
b	6.4	5.9
c	6.4	5.9
d		on plate
e	7.0	
f	6.3	new edge
g	6.6	6.0
h	7.9	7.0
i	7.9	
j	8.1	
m	7.9	
n	9.4	
o	8.9	
p	9.3	
q	9.5	
r	9.4	
s	9.7	
t	n.s.	
u	n.s.	
v	n.s.	
w	n.s.	
x	n.s.	
y	n.s.	
z	n.s.	

Edge of plate -
very faint image

see p. 127

May 6, 1896

S Cass. cont.

Plate C 8272 taken Sept. 13, 1895

a	5.0	4.5
b	6.1	5.6
c	6.1	5.6
d	6.9	6.5
e	6.5	6.0
f	6.2	5.7
g	7.8	6.6
h	7.5	
i	7.6	
j	7.4	
k	9.6	
l	8.2	
m	9.0	
n	9.3	
o	9.3	
p	9.6	
q	n.s.	
r	n.s.	
s	n.s.	
t	n.s.	
u	n.s.	
v	n.s.	
w	n.s.	
x	n.s.	
y	n.s.	
z	n.s.	

see p. 127

May 6, 1896

S. C. C. C. C.

Plate C8339 taken Oct. 6, 1895

6.0 5.5 Remers, May 7, 1896

a	5.0	4.5
b	5.8	4.3
c	5.8	4.3
d		6.9
e		Not on plate
f	6.8	6.2
g		8.0 7.3
h		8.1
i		8.2
m		8.0
n		9.0
o		8.3
p		9.0
q		9.3
r		9.1
s		9.4
t		10.0
u		9.9
v		10.0
x		10.1
y		n.s.
z		n.s.

May 6, 1896

Remeasurement on C plates of comparison stars to Land & Bessel, using the new scale for C plates

Plate C4474 taken Feb. 18, 1892

a	7.1
b	6.6
c	7.1
d	6.9
e	6.4
f	5.9
g	7.2
h	6.6
i	7.2
j	8.0
k	8.0
l	8.6
m	8.4
n	8.7
o	8.2
p	8.9
q	9.0
r	9.2
s	9.5
t	9.8
u	10.0
v	10.2
w	10.2
x	9.9
y	9.0
z	

May 6, 1896 T. S. Pucci cont

Plate C 6103 taken Oct. 16, 1893

a	6.7	
b	6.5	6.0
c		6.9
d		Not on plate
e	6.2	5.7
f		7.0
g		6.2
h		7.1
i		7.9
j		8.0
k		8.0
l		8.2
m		8.3
n		8.5
o		8.8
p		8.7
q		9.1
r		9.4
s		9.7
t		10.0
u		10.1
v		10.1
w		
x		
y		
z		

May 6, 1896 T. S. Pucci cont

Plate C 6589 taken Feb. 16, 1894

a	6.8	6.8	
b	6.5	6.0	
c		7.0	
d		Not on plate	
e		6.0	
f		6.7	
g	6.9	6.4	
h		7.0	
i		7.6	
j		7.5	
k		7.9	
l		7.7	
m		8.0	
n		8.0	
o		8.3	
p		8.1	
q		8.8	
r		9.0	
s		9.6	
t		9.7	
u		9.9	
v		10.1	
w			
x		8.5	
y		8.1	

May 6, 1890

T. S. Pres. cont.

Plate C 8274 taken Sept. 13, 1895

a	6.6	6.1
b	5.8	5.3
c	6.6	6.1
d		
e	5.6	5.1
e	6.6	6.1
e	6.4	5.9
f		6.6
g		7.1
h		7.1
k		7.3
k		7.6
k		8.0
k		8.1
k		8.4
k		8.2
h		9.0
m		9.5
n		9.9
o		10.1
p		10.3
q		10.4
S		9.5
7		8.0

Not on plate

May 7, 1896

Continuation from II p. 30 of estimates of
brightness of Σ Ephri

Plate C 9091 taken April 16, 1896

V m. s.

 $m = .2$

Plate I 15224 taken June 2, 1896

V m. s.

 $m = .1$ I identify
of γ doubtful
I mean to write

Plate I 15514 taken July 21, 1896

 γ of q^2

Plate I 15379 taken June 29, 1896

V m. s.

 $q = .3$

Plate I 15226 taken June 2, 1896

V m. s.

 $p = .2$

May 7, 1896

Continuation from page 24 of measures
of the brightness of β Cephei

Plate C 9090 taken

11.37
9.00 x 2.7 11.59 $V = 11.65 \pm 0.06$

Plate C 9103 taken April 22, 1896

11.37
9.00 x 2.7 11.59 $V = 11.57$

Sept. 24, 1896

Plate I 15324 taken June 13, 1896

7.34
8.5 x 3.7 9.549.84
4.1 x 2.1 9.94 $V = 9.67 \pm 0.05$

Plate I 15704 taken Aug. 18, 1896

8.78 x 3.7 9.08

9.04 x 2.1 9.24

 $V = 9.06 \pm 0.02$

Plate I 15325 taken June 2, 1896

10.48

 $V = 10.48$

Plate I 15513 taken July 21, 1896

9.24

 $V = 9.24$

Plate I 15802 taken Aug. 28, 1896

8.78 x 3.7 9.08

9.04 x 2.1 9.24

 $V = 9.06 \pm 0.02$

May 8, 1896

Remeasurement of magnitudes of
companion stars for β Cephei with
new scale on C plate. From II p 97

Plate C 6017 taken Sept. 30, 1893

Superfused

a 4.8 4.3

b 6.4 5.9

extreme edge

c

Not on plate

d 6.8

e 6.8

c' first measured.

f 7.3

g 7.4

h 7.9

i 8.9

k 8.8

l 8.9

m 9.5

n 9.0

o 9.4

p 9.6

q 9.9

r 10.0

s 10.1

t 10.4

u n.s.

v n.s.

w n.s.

x n.s.

y 6.6 6.1

For I Plate on p. 213

May 7, 1896

D. Auringae Cont.

Plate C 6645 taken Mar. 19, 1894

a	5.0	4.5	Succeeded
b	6.3	5.8	
c	6.4	5.9	Edge of field Not on plate
c'	6.4	6.4	
d	6.9	6.4	
e		7.0	
f		7.3	
g		7.4	
g'		7.7	
h		8.8	
k		8.7	
l		8.9	
m		9.6	
n		9.3	
o		9.5	
o'		9.7	
p		10.1	
q		10.3	
r		n.s.	
s		n.s.	
t		n.s.	
x		n.s.	
V		8.3	

Images slightly elongated

May 8, 1896

D. Auringae Cont.

Plate C 7338 taken Nov. 16, 1894

a	5.3	4.8	Succeeded
b	6.5	6.0	
c			Not on plate
c'	6.6	6.1	
d		6.8	
e		6.8	
f		7.6	
g		7.7	
g'		7.9	
h		8.8	
k		8.7	
l		8.9	
m		9.6	
n		9.1	
o		9.4	
o'		9.7	
p		10.0	
q		10.1	
r		10.3?	
s		n.s.	
t		n.s.	
u		n.s.	
V		10.3	

May 8, 1896

E. Amigues Cont.

Plate C 7285 taken Sept. 15, 1895

a	3.8	3.3	
b	5.4	4.9	Edge of plate
c			Not on plate
c'	5.1	4.6	
d	6.1	5.6	
e	6.2	5.7	
f	6.6	6.0	
g	6.6	6.0	
g'	6.7	6.1	
h		6.9	
k		6.9	
l		7.0	
m		7.2 8.2	
n		7.7	
o		8.0	
o'		8.4	
p		9.5	
q		9.6	
r		9.7	
s		10.0	
t		n.s.	
u		n.s.	
v	6.5	6.0	

May 8, 1896

Measures of the brightness of Mr.
Hindell's comparison stars to E. Amigues
Minors - (For I plates see page 46)

Plate C 4723 taken May 17, 1892

a	7.0	6.6
b	6.9	6.5
c	7.0	6.6
d	6.9	6.4
e		8.0
f		7.4
g		8.0
h		8.2
k		8.8
l		8.1
l		9.0
m		9.2
n		9.4
o		9.7

v	7.9
f	7.9
g	6.0

May 8, 1896

R. H. Min. Cont

Plate C 7555 taken Feb. 20, 1895

a	6.6	6.0
b	6.8	6.3
c	6.6	6.1
d	6.7	6.2
e		7.9
f		6.9
g		7.1
h		7.8
i		8.0
j		8.4
k		7.9
l		8.6
m		8.8
n		9.0
o		9.2
p		
V	~	7.8
γ	5.9	5.4

May 8, 1896

R. H. Min. Cont

Plate C 7734 taken May 9, 1895

a	7.6
b	7.6
c	7.5
d	7.8
e	8.9
f	8.3
g	8.7
h	9.0
i	9.1
j	9.4
k	9.2
l	9.6
m	9.6
n	9.8
o	9.9
V	9.1
γ 6.9	6.4

Images very intense - none so that
scale.

May 8, 1896

R.H.S. Min. Cont.

Plate C 8805 taken Jan. 31, 1896

V	6.3
a	7.0
b	7.0
c	7.0
d	6.9
e	8.2
f	7.7
g	8.0
h	8.7
i	8.9
k	9.1
l	8.3
m	9.1
n	9.3
o	9.5
p	9.8
q	8.2

May 8, 1896

Measurements of Mr. Handell's companion stars to δ Cephei with new scale. Original measures are on page 157 vol I.

Plate C 5898 taken Aug. 22, 1893

Not on plate

a		
b		
c		
d	5.6	5.1
e	6.0	5.5
f	6.6	6.1
g	6.8	6.5
h	6.5	6.0
i		6.8
k		7.0
l		8.0
m		7.9
n		9.0
o		8.4
p		8.9
q		9.3
r	9.3	9.3
s		9.7
t		9.8
		10.0

V 5.6

May 7, 1896

T Cephei Cont.

Plate 6077 taken Oct. 14, 1893

Not on plate

" " "

" " "

d	5.3	4.8	This plate not included in ledger See Vol. IV p 23
e	6.1	5.6	

f	6.4	5.9
---	-----	-----

g	6.6	6.1
---	-----	-----

h	6.4	5.9
---	-----	-----

i		6.2
---	--	-----

k		
---	--	--

l		7.4
---	--	-----

m		8.0
---	--	-----

n		9.2
---	--	-----

o		8.5
---	--	-----

p		
---	--	--

q		9.6
---	--	-----

r		9.6
---	--	-----

s		9.6
---	--	-----

t		9.9
---	--	-----

u		10.0
---	--	------

v		10.2
---	--	------

V	6.4	5.9
---	-----	-----

Not on plate

Not on plate

May 7, 1896

T Cephei cont.

Plate C 6364 taken Dec. 20, 1893

Not on plate

" " "

" " "

d	5.8	5.3
---	-----	-----

e	6.1	5.6
---	-----	-----

f	6.6	6.0
---	-----	-----

g	6.5	6.0
---	-----	-----

h	6.5	6.0
---	-----	-----

i	6.8	6.3
---	-----	-----

k		6.6
---	--	-----

l		7.3
---	--	-----

m		7.4
---	--	-----

n		8.6
---	--	-----

o	8.4	8.0
---	-----	-----

p	8.4	8.0
---	-----	-----

q	8.9	
---	-----	--

r	8.9	
---	-----	--

s	9.0	
---	-----	--

t	9.5	
---	-----	--

u	9.6	
---	-----	--

v		7.5
---	--	-----

V		9.2
---	--	-----

Near edge - distorted image

8.4 + 8.0
 8.4 ?
 8.9
 8.9
 9.0
 9.5
 9.6

Upper edge, poor image

May 8, 1896

Cephei Cont.

Plate C 7407 taken Jan. 1, 1895

d	5.1	4.6
e	5.9	5.4
f	6.4	5.9
g	6.6	6.0
h	6.3	5.8
k	6.7	6.2
k		7.0
l		7.6
m		7.8
m		9.0
o		8.1
o		8.6
p		9.4
q		9.4
r		9.4
s		10.0
t		10.2
V		7.3
r		9.7

Poor image near edge

May 8, 1896

Semi-measurements on C plates of comparison stars to S Cephei, using new scale.

Plate C 5934 taken Sept. 2, 1893

a	6.6	6.1	Not on plate
b			Not on plate
c		6.9	Extreme edge of plate - poor image
d		6.7	Not on plate
e		6.7	
f		7.2	
g		8.5	
h		8.3	
k		8.9	
l		9.0	
m		9.2	
n		9.4	
o		10.0	
p		10.0	
q		9.9	
V		n.s.	

May 8, 1896

S Cephei cont

Plate C 7737 taken April 19, 1895

a	66*	6.2	Image much elongated, near edge
b			Not on plate
c		7.6	
d			Not on plate
e		7.3	
f		7.5	
g		8.8	
h		8.7	
k		9.0	
l		9.1	
m		9.5	
n		9.6	
o		9.9	
p		9.9	
q		9.8	
V		n.s.	

May 8, 1896

S Cephei cont

Plate C 7091 taken Aug 2, 1891

a	6.7	
b		Not on plate
c	7.9	
d		Not on plate
e	7.2	
f	7.6	
g	8.8	
h	8.6	
k	9.1?	
l	9.2	
m	9.4	
n	9.6	
o	10.0	
p	10.0	
q	10.0	
V	n.s.	

May 8, 1896

S. Cephus cont

Plate C 8378 taken Sept. 13, 1895

a	6.0	5.5	
b	6.5	6.3	Not on plate
c	6.8	6.3	
d			Not on plate
e	6.6	6.0	
f		6.6	
g		8.0	
h		7.5	
k		8.7	
l		9.0	
m		9.3	
n		9.5	
o		10.0	
p		10.0	
q		9.9	
r		n.s.	

May 8, 1896

Remeasurement on C plates of comparison stars to R Cassiopeiae with new scale. First measures I p 95

Stars a, b, c, d, e, f, are not on any C plate

Plate C 5732 taken July 19, 1893

g	5.6	5.1
h	5.0	4.5
k	6.1	5.6
l	6.6	6.0
m	6.8	6.3
n		6.9
n		7.2
o		8.4
o		7.9
p		9.0
q		8.3
r		8.5
s		9.0
t		9.1
u		9.6
v		9.9
x		10.0
y		10.2
z		10.1
x		n.s.
r	6.5	6.0

May 8, 1896 B. Cass. Cont.

Plate C 6441 taken Jan. 7, 1894

g		
h	5.2	4.1
k		
l		
m	6.6	6.0
n		6.9
o		7.0
p		8.0
q		7.7
r		9.0
s		8.3
t		9.0
u		9.3
v		9.7
w		9.9
x		n.s.
y		m.s.
z		m.s.
α		m.s.
V	9.5	

Quasar slightly elongated

This plate rejected, because stars g, k, l do not appear.

May 8, 1896 B. Cass. Cont.

Plate C 7066 taken Sept. 29, 1894

g	5.4	
h	5.4	4.9
k		
l		
m	6.7	6.2
n		7.0
o		7.8
p		8.9
q		8.4
r		9.5
s		9.0
t		9.0
u		9.5
v		9.7
w		10.0
x		10.2
y		n.s.
z		n.s.
α		n.s.
V	6.0	

This plate rejected, because stars g, k, l do not appear.

May 9, 1896

F. Cass, cont.

Plate C 7974 taken July 11, 1895

a	5.0	Not on plate
b	5.0	4.5
c	6.4	5.9
d	6.6	6.0
e	6.4	5.9
f	6.6	6.0
g		7.0
g'		7.9
h		7.0
k		8.0
omit l		8.0
m		8.0
n		8.2
omit o		9.2
ni		8.7
o		8.9
p		9.0
p'		8.9
q		9.1
r		9.3
s		9.6
s'		9.9
t		10.0
u		n.s.
v		6.9

May 9, 1896

F. Cass, cont.

Plate C 8019 taken July 23, 1895

a		
b	5.1	4.6
c	6.4	5.9 ₂
d	6.7	6.4
e	6.4	5.9
f	6.6	6.2
g		7.7
g'		8.2
h		7.4
k		8.8
omit l		8.9
m		8.8
n		8.7
n'		9.1
omit o		9.7
o		9.3
p		9.4
p'		9.3
q		9.7
q'		9.7
s'		10.0
s		n.s.
t		n.s.
u		n.s.
v		n.s.
v		7.1

May 9, 1896 *Spec. cont.*Plate C 8070 taken July 31, 1895
Not on plate

a		
b	5.7	5.2
c	6.4 ²	5.9 ²
d	6.9	6.4
e	6.6	6.1
f	6.6	6.1
g		7.3
g'		8.0
h		6.3
k		8.1
l		8.2
m		8.2
n		8.2
n'		8.7
omit o		9.3
o		8.9
p		9.2
p'		9.0
q		9.4
r		9.5
s		9.8
e t		n.s.
u		n.s.
v		n.s.
v		7.2

Edge of film; image much elongated

May 9, 1896 *Spec. cont.*

I Plate remained, because p was left out of the sequence, with no record of the reason.

Plate I 81 taken Nov. 5, 1899
Image much elongated

a	5.6 ²	4.9
b	4.8	5.1
c	5.9	6.3
d	6.8	7.1
e	6.2	6.5
f	6.4	6.7
g		7.7
g'		8.3
h		7.9
k		8.4
omit l		8.5
m		8.3
n		8.4
n'		8.7
omit o		9.4
o		9.0
p		9.0
p'		8.9
q		9.3
r		9.5
s		9.8
t		10.1 ²
u		n.s.
v		n.s.
v		8.9

These
measures
superfluous

That these measures may be a defect

May 9, 1896

P. Cass. Cont

Plate I 2053 taken Oct. 22, 1890.

a	4.5 ²	4.8	Edge of plate - say from image
b	5.6	5.9	Pos image
c	6.0	6.4	" "
d	7.0	7.3	
e	6.7	7.0	
f	6.7	7.0	
g		8.0	
g'		8.5	
h		7.8	
k		8.6	
omit l		8.7	
m		8.7	
n		8.6	
n'		9.0	
omit o		9.7	
o		9.3	
p		9.2	
p'		9.2	
q		9.9	
r		9.9	
expanded { a-		n.s.	
expanded { a		9.3	
		n.s.	
		n.s.	
V		7.8	

May 9, 1896 P. Cass. cont

Plate I 5279 taken Dec. 25, 1891

a		Extreme edge of plate	
b	4.9	5.2	Pos image
c	5.6	5.9	" "
d	6.2	6.5	
e	5.9	6.2	
f	6.2	6.5	
g	6.9	7.2	
g'		7.9	
h	7.0	7.3	
k		8.1	
omit l		8.3	
m		8.0	
n		8.0	
n'		8.6	
omit o		9.9	
o		8.8	
p		9.4	
p'		9.2	
q		9.5	
r		9.8	
expanded { a-		n.s.	
expanded { a		n.s.	
		n.s.	
		n.s.	
V	6.8	7.1	

Image much blurred

Images poor

May 9, 1896
T. Cass, cont.

Plate I 1594 taken Oct. 11, 1894

Examine edge of plate

a			
b	4.3	4.6	much blurred
c	5.6	5.9	
d	6.3	6.6	
e	5.8	6.1	much blurred
f	6.1	6.4	" "
g		7.1	
h		8.0	
i		7.1	
j		8.0	
k		8.1	
l		8.0	
m		8.0	
n		8.3	
o		8.9	
p		8.6	
q		8.6	
r		8.5	
s		8.9	
t		9.0	
u		9.4	
v		9.8	
w		10.1	
x		10.5	
y		9.0	

Images poor

May 9, 1896

Continuation from page 4 of estimates
of the brightness of S. Bortis.

Plate C 9071 taken April 15, 1896
v m. s. $v < 13.6$

13.52 $0 = .1$
Plate C 9099 taken April 22, 1896
12.84 m 3v 13.14 13.16 $v = 13.15$ 0.1 0.1
13.16 v 1 m 13.26

June 9, 1896 Plate I 15626 taken Aug. 8, 1896
Sept. 23, 1896 9.28 c 4v 9.68 9.78 $v = 9.73$ 0.5 0.5
9.78 v 3f 10.08

Plate I 15208 taken May 31, 1896
11.36 h 2v 11.56 11.43 $v = 11.60$ 0.6 0.7
11.43 v 3 k 11.73

Plate I 15568 taken July 31, 1896
9.28 c 4v 9.68 9.58 $v = 9.63$ 0.5 0.5
9.58 v 5f 10.08

Plate I 15567 taken July 31, 1896
9.28 c 4v 9.68 9.78 $v = 9.73$ 0.5 0.5
9.78 v 3 f 10.08

Plate I 15698 taken Aug. 17, 1896
9.28 c 3v 9.58 9.58 $v = 9.58$ 0.0 0.0
9.58 f 5 k f 10.08

Continued IV p. 88

May 11, 1896-

Measures of comparison stars to R Cassiopeiae
continued from page 153.

Plate C ~~8670~~⁷⁷³⁶ taken April 19, 1895

g	6.1	5.6
h	5.9	5.4
k	6.5	6.0
l	7.0	6.6
m	7.0	6.6
n		7.5
ni		7.9
o		8.8
o'		8.4
p		9.5
q		8.9
r		9.0
s		9.5
t		9.7
u		9.8
W		10.0
x		10.2
y		10.1
V		9.9

May 11, 1896

R Cass. Cont

Plate C 8670 taken Dec. 22, 1895

g	6.0	5.5
h	5.5	5.0
k	6.3	5.8
l	6.9	6.4
m	6.5	6.0
n		6.9
ni		7.2
o		8.4
o'		8.0
p		9.2
q		8.7
r		8.7
s		9.3
t		9.6
u		9.8
W		10.1
x		n.s.
y		n.s.
V	6.4	5.9

May 12, 1896

Pleiades

Measures of the magnitudes of stars on
Iceland Spar plates.

Plate C 7836 taken Feb. 14, 1896

a ₁	4.1	3.6
b ₁	5.5	5.0
c ₁	7.8	7.8
d ₁	8.9	8.9
a ₂	6.4	5.9
b ₂		6.7
c ₂		9.6
d ₂		10.1
3 { a	4.4	4.4 3.9
b	5.8	5.8 5.3
c		7.6
d		8.8
4 { a	6.5	6.0
b		6.9
c		9.6
d		10.1

Images 2 and 4 very close together

3
2 . 4
1

May 12, 1896

Iceland Spar cut

Pleiades Plate C 7902 taken Feb. 24, 1896

a	4.8	4.3
b	5.3	4.8
c	6.5	6.0
d		6.6
e		7.9
f		7.6
g		8.9
h		8.8
a		7.0
b		7.3
c		8.3
d		8.9
e		9.6
f		9.5
g		n.s.
h		n.s.
a	4.8	4.8 4.3
b	5.2	5.2 4.8
c	7.0	6.5
d		7.0
e		7.9
f		7.9
g		8.9
h		8.9

1
2
3
4

Images 1 round
3 elongated

May 12, 1896

Plate C 8902 continued

4	a	7.0
	b	7.3
	c	8.6
	d	9.0
	e	9.7
	f	9.6
	g	n.s.
	h	n.s.

May 13, 1896

See back of plate

Plaudes Plate C 8914 taken Feb. 25, 1896

1	a	4.7	4.2
	b	5.1	4.6
	c	6.4	5.9
	d	6.7	6.2
	e		
	f	7.0	6.6
	g		8.1
	h		7.2

Not on plate

Image 1 round
3 elongated

2	a	6.7	
	b	7.0	
	c	8.1	
	d	8.3	
	e	9.5	
	f		
	g		
	h		

Defect in plate

10.2?

3	a	4.6	4.6 4.1
	b	4.9	4.4
	c	6.2	5.7
	d	6.7	6.2
	e		7.1
	f		8.7
	g		8.7
	h		

May 12³, 1896

Plate C 8914 continued

a	7.0	6.6
b		6.9
c		8.4
d		8.7
e		Dist on plate
f		9.4
g		10.1
h		10.2

Now 3 and 4 very close together - elements
difficult

May 12³, 1896

Island Spae cont.

Plate C 9056 la Tera April 15, 1896

Mist field

a	5.4	4.9	
b		7.0	
c		8.1	
d		8.9	Dist. was first measured
e		8.4	
f		9.6	

All images
much elongated

a	7.0	6.6
b		9.6
c		9.8
d		9.9
e		Dist on plate
f		10.3 ²

a	5.7	5.2
b		7.0
c		8.2
d		8.9
e		9.2
f		9.6

best seen edge of field

a		6.7
b		9.7
c		9.8
d		10.6
e		10.0
f		10.3 ²

Images much
elongated.

May 12, 1896

Island Spar cont.

Plate C 9056 - Smith field

1	a	4.8 ⁰	3.5
	b		6.7
	c		7.7
	d		7.6
	e		8.4
	f		9.5

Images much elongated
Measurement extremely
uncertain

2	a	6.6	6.2
	b		9.6
	c		9.8
	d		10.0
	e		
	f		10.3 ²

Not on plate

3	a	4.1	4.36
	b	6.8	6.5
	c		7.7
	d		8.6
	e		8.5
	f		9.2

4	a	6.8	6.5
	b		9.5
	c		9.8
	d		9.9
	e		9.9
	f		10.2 ²

May 12, 1896

Island Spar cont.

Pleiades

Plate C 9057 taken April 15, 1896

1	a	5.3	4.8
	b		7.6
	c		8.7
	d		9.3
	e		9.0

1.
4.2
3

Images much elongated
Measurement almost
guess-work.

2	a	6.5	6.5
	b		9.8
	c		10.0
	d		10.2
	e		n.s.

3	a	5.6	5.1
	b		7.5
	c		8.5
	d		9.1
	e		9.0

4	a		6.7
	b		9.9
	c		10.0
	d		10.3 ²
	e		n.s.

May 12, 1896

Island Spruce cont.

Plate C 9095 taken April 22, 1896
South field

Polariscope

Identification p. 178

1	a	6.4	5.9
	b	6.5	6.3
	c	6.7	6.2
	d	6.9	6.5
	e		6.9
	f		7.0
	g		6.9
	h		7.0
	k		8.4
	l		8.9
	m		8.9
	n		9.0
	o		9.1
	p		9.0
	q		9.0
	r		9.1
2	a	8.0	
	b	7.6	
	c	8.4	
	d	8.7	
	e	8.9	
	f	9.0	
	g	8.9	
	h	9.0	
	k	9.8	

Images 1 round
3 elongated

Images (2) somewhat elongated

May 12, 1896

Plate C 9095 south field cont.

(2)	l	9.9
	m	10.0
	n	10.1
	o	10.2
	p	10.1
	q	10.2
	r	10.2

3	a	6.7	6.2
	b	7.0	6.6
	c		6.9
	d		7.0
	e		7.1
	f		7.3
	g		7.3
	h		7.5
	k	8.7	9.9
	l		8.9
	m		9.0
	n		9.0
	o		9.1
	p		
	q		9.2
	r		9.2

Images elongated

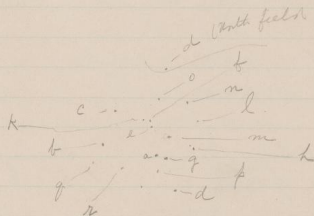
All images (3) are elongated

Two other ^{stars} images touches too closely
to allow measurement

May 12, 1896

Plate C 9095, South Field, cont.

4	a	8.0	Images somewhat elongated
	b	8.5	
	c	8.6	
	d	8.8	
	e	9.0	
	f	9.1	
	g	9.0	
	h	9.0	
	k	9.9	
	l	10.0	
	m	10.1	
	n	10.0	
	o	10.2	
	p	10.2	
	q	10.3 ²	
	r	10.3 ²	



a. DM + 20° 2171	n
b. DM + 20° 2175	o. DM + 20° 2162
c. DM + 20° 2172	p
d. DM + 19° 2069	q
e. DM + 20° 2162	r
f. DM + 20° 2165	
g. DM + 20° 2163	
h. DM + 20° 2150	
k. DM + 20° 2170	
l. DM + 20° 2157	
m. DM + 20° 2160	

May 12, 1896

Plate C 9095, North field

1	a	6.7
	b	7.0
	c	7.0
	d	7.2
	e	7.7
	f	7.8
	g	7.9
	h	7.8
	k	9.0
	l	9.3
	m	9.3
	n	9.4
	o	9.5
	p	9.4
	q	9.5
	r	9.6

2	a	8.8
	b	9.0
	c	9.0
	d	9.0
	e	9.1
	f	9.3
	g	9.3
	h	9.3
	k	10.1
	l	10.3 ²
	m	n.s.

n, o, p, q, r n.s. - Neither (2) m (4)

May 12, 1896

Plate C9095 So North Field cont

3

a 6.9
b 7.3
c 7.3
d 7.5
e 7.9
f 8.0
g 8.1
h 8.1
i 9.1
j 9.3
k 9.3
l 9.4
m 9.6
n 9.5
o 9.6

Images elongated in (3)

Another image on left

4

a 8.8
b 9.1
c 9.1
d 9.1
e 9.3
f 9.4
g 9.3
h 9.3
i 10.2
j 10.32
k 10.32

on 2.

May 13, 1896

Iceland Spar cont

Prase

Identification p. 178

1

a 6.8³ 6.05.8 7 min. Burt
b 6.6 6.0
c 6.6 6.1
d 6.7 6.2
e 6.8
f 6.9
g 6.9
h 7.0
i 8.9
j 9.0
k 9.0
l 9.0
m 9.0
n 9.0
o 9.2
p 9.1
q 9.2
r 9.2

Plate C9096 taken April 22, 1896

South fields

1.2 ↑
4.3

All images on this plate
save those belonging to (1) are
elongated

Images much elongated

2

a 8.1
b 8.6
c 8.6
d 8.7
e 8.9
f 9.0
g 9.0
h 9.0
i 10.1
j 10.32

May 13, 1896

Plate C 9096, South Field, cont

(2)	m	10.3	10.33
	n		10.32
	o		n.s.
	p		10.42
	q		n.s.
	r		n.s.

3	a	6.8	6.3
	b	7.0	6.5
	c	7.0	6.5
	d		6.7
	e		7.0
	f		7.1
	g		7.1
	h		7.2
	k		9.0
	l		9.0
	m		9.1
	n		9.0
	o		9.2
	p		9.2
	q		9.3
	r		9.3

May 13, 1896

Plate C 9096 South Field, cont.

4	a	8.0
	b	8.5
	c	8.8
	d	8.8
	e	9.0
	f	9.1
	g	9.0
	h	9.1
	k	10.0
	l	10.2
	m	10.3
	n	10.3
	o	n.s.
	p	n.s.
	q	n.s.
	r	n.s.

Duplicate (4) much elongated

May 13, 1896

Plate C9096, North Field

1	a	5.9	5.4
	b	6.1	5.6
	c	6.1	5.6
	d	6.3	5.8
	e	6.5	6.0
	f	6.6	6.1
	g	6.6	6.1
	h	6.6	6.1
	i		8.1
	l		8.5
	m		8.6
	n		8.5
	o		8.8
	p		8.7
	q		8.9
	r		8.9

All images in this field
much elongated.
Measure difficult

2	a	7.7
	b	7.9
	c	8.0
	d	8.2
	e	8.4
	f	8.6
	g	8.7
	h	8.8
	i	9.8
	l	9.9
	m	10.0

May 13, 1896

Plate C9096 North field, cont

(2)	n	9.9
	o	10.0
	p	10.0
	q	10.1
	r	10.2

3	a	6.0	5.5
	b	6.5	6.0
	c	6.7	6.2
	d	6.7	6.2
	e	6.9	6.5
	f		6.6
	g		6.7
	h		6.7
	i		8.3
	l		8.7
	m		8.7
	n		8.6
	o		8.8
	p		8.9
	q		8.9
	r		8.9

Another image combined

May 13, 1896

Plate C 9096 North Field continued

4	a	7.7
	b	8.0
	c	8.0
	d	8.0
	e	8.6
	f	8.8
	g	8.9
	h	8.9
	k	9.8
	l	10.0
	m	10.0
	n	10.0
	o	10.5?
	p	10.2?
	q	10.3?
	r	10.3?

May 13, 1896 Ireland Spar ant.

Plate C 9097 taken Apr. 22, 1896

1	a	4.5	
	b	4.5	
	c	5.1	
	d	6.6	6.1
	e		6.9
	f		7.7

2	a	6.9	6.4
	b		7.0
	c		7.7
	d		8.3
	e		8.9
	f		9.4

3	a	4.8	
	b	5.3	
	c	6.0	
	d	6.6	6.1
	e	7.0	6.6
	f		7.4

4	a	6.7	
	b	7.3	
	c	8.1	
	d	8.6	
	e	8.9	
	f	9.2	

1.2
4.2

Scum exposures

a
b
c
d
e
f
a'
b'
c'
d'
e'
f'

↑

Accented letters, south field
Unaccented " north "

May 13, 1896

Plate C9097 taken Ireland from center

Apr. 22, 1896 plate

Handbook 51, 908 of plate

$$\begin{array}{c} \uparrow \\ 4 \cdot 2 \\ 4 \cdot 3 \end{array}$$

1	a	4.8	4.3
	b	5.5	5.0
	c	6.3	5.8
	d	6.6	6.1
	e		6.8
	f		7.5

Images via 1 slightly elongated. Should not numbering be reversed

2	a	6.8	6.3
	b		7.0
	c		7.5
	d		8.3
	e		8.9
	f		9.3

3	a	4.7	4.2
	b	5.2	4.7
	c	6.0	5.5
	d	6.4	5.9
	e	6.9	6.5
	f		7.5

4	a		6.7
	b		7.1
	c		7.8
	d		8.3
	e		8.7
	f		9.2

On plate numbering has been reversed in red ink. Miss Ireland measured this plate after I did. She recognizes the change as probably in her hand. My measures are on numbers as in chart at top of page and original marking on plate. This note applies also to plate 9098. Oct. 6, 1902

May 13, 1896

Plate C9097 continued

South Field

1	a	4.8	4.3
	b	5.4	4.9
	c	6.1	5.6
	d	6.7	6.2
	e		6.8
	f		7.6

2	a	6.9	6.4
	b		7.0
	c		7.6
	d		8.3
	e		8.9
	f		9.4

3	a	4.7	4.2
	b	5.4	4.9
	c	6.0	5.5
	d	6.6	6.1
	e		6.7
	f		7.6

4	a	6.7	6.7
	b		7.1
	c		7.7
	d		8.2
	e		8.8
	f		9.2

May 14, 1896

Pole star Plate C9098 taken April 22, 1896

1	a	4.3	3.8	C first meas	
	b	5.7 ⁰	4.5		
	c	5.7	5.2		
	d		6.0		
	e	7.0	6.5		
	f		7.1		
	g		7.7		
2	a	6.4	5.9	<p>Images (1) seem to be elongated here. Should not images have been numbered from other end of plate.</p> <p>See note page 188.</p>	
	b	6.8	6.3		
	c		7.0		
	d		7.7		
	e		8.9		
	f		9.2		
	g		9.6		
3	a	4.1	3.6		
	b	5.0	4.5		
	c	5.5	5.5 5.0		
	d	6.1	5.6		
	e	7.0	6.6		
	f		7.0		
	g		7.6		
4	a	6.6	6.1		
	b		6.8		
	c		7.1		
	d		8.0		

May 14, 1896

Plate C9098 continued

(4)	e	7.8	
	f	9.1	
	g	9.6	
1	a	4.7	4.2
	b	5.2	4.7
	c	6.0	5.5
	d	6.4	5.9
	e	6.9	6.6
	f		7.4
	g		8.0
2	a	6.6	6.1
	b	7.0	6.8
	c		7.3
	d		8.0
	e		8.7
	f		9.1
	g		9.7
3	a	4.6	4.1
	b	5.1	4.6
	c	5.7	5.2
	d	6.1	5.6
	e	6.7	6.4
	f		7.0
	g		7.9
			8.6

May 14, 1896

Plate C 9098 Cont.

4	a	6.9	6.8 ⁴
	b		6.9
	c		7.3
	d		7.9
	e		8.4
	f		9.0
	g		9.6

May 14, 1896

Island Fox Ant

Pronunciation		Plate C 9108 taken April 23, 1896		North Field		n ₁ ↑	
1	a	7.0	6.7			1.2	
	b		7.1			4.3	
	c		7.2				
	d			Not on plate		Images 3	
	e		8.0			slightly elongated	
	f		8.1				
	g		8.0				
	h		8.1				
	k		9.7	This and following stars do not show faint wings			
	x		8.4				
	y		8.8				
2	a		8.9			For identification see	
	b		9.3			page 178	
	c		9.3				
	d		9.7				
	e		9.9				
	f		9.9				
	g		9.8				
	h		10.1				
	x		n.s.				
	y						
	z						

May 14, 1896

Plate C 9105 taken April 23, 1896
North Field Continued

3	a	6.8
	b	7.2
	c	7.3
	e	7.9
	f	8.1
	g	8.0
	h	7.9
	i	9.7
	x	8.3
	y	8.9
4	a	9.0
	b	9.4
	c	9.5
	e	9.8
	f	9.9
	g	9.9
	h	9.9
	k	n.s.
	x	10.1
	y	n.s.

May 14, 1896

Plate C 9108 - South Field

1	a	7.4
	b	6.9
	c	7.4
	d	7.4
	e	
	f	
2	a	
	b	
	c	
	d	
	e	
3	a	
	b	
	c	
	d	
	e	
4	a	
	b	
	c	
	d	
	e	

Not on plate

8. The small ~~stars~~ ^{images} do not come out
in this star nor in any that follows,
nor in any of -

I have been observing the wrong
field -

See next page

May 14, 1896

Prasepe

Plate C 9108 - South Field

1	a	7.3
	b	7.9
	c	8.0
	d	
	e	

Small stars do not come ^{out} except in stars
a, b and c

2	a	9.6
	b	10.0
	c	10.1

Identification p. 178

3	a	7.5
	b	7.9
	c	8.0

4	a	9.7
	b	10.0
	c	10.1

May 14, 1896 Ireland from cont.

Plate C 9109 taken April 23, 1896

Faint image not seen in either
northern or southern field save stars a
in northern field

1	a	8.2
2		10.0
3		8.3
4		10.1

May 14, 1896

Island Spar cont.

Plate C 914s taken April 30, 1896

North Field

Principle

For ident. see p. 178

1	a	7.0	6.6
	b		7.0
	c		7.1
	d	Not on plate	
	e		7.5
	f		7.8
	g		7.7
	h		7.7
	k	In this + following stars faint images do not appear	
	x		8.0
	y		7.0
2	a		8.9
	b		9.2
	c		9.2
	d	Not on plate	
	e		9.4
	f		9.6
	g		9.5
	h		9.4
	x		9.7
	y		9.2

What stars are x and y?

May 14, 1896

Island Spar cont.

Plate C 9140 Cont. (North Field)

3	a	7.0	6.7
	b		7.1
	c		7.1
	d		7.8
	e		8.0
	f		8.0
	g		8.0
	h		8.0
	x		8.1
	y		7.1
4	a		8.9
	b		9.2
	c		9.2
	d		9.5
	e		9.6
	f		9.6
	g		9.6
	h		9.6
	x		9.9
	y		9.1

Image 3 somewhat elongated.

May 14, 1896

Plate C9140 Continued
South FieldSame stars can be measured as in north
field.

1	a	7.0
	b	7.5
	c	7.5
	d	7.0
	e	8.3
	f	8.2
	g	8.2
	h	8.6
	x	7.6
	y	
2	a	9.1
	b	9.5
	c	9.5
	d	
	e	9.6
	f	9.8
	g	9.7
	h	9.7
	x	10.1
	y	9.2

Not on plate

May 14, 1896

Plate C9140, South Field, Continued

Quasars in (3) elongated

3	a	7.5
	b	7.9
	c	8.0
	d	8.3
	e	8.5
	f	8.5
	g	8.6
	h	8.9
	x	
	y	7.9

4	a	9.1
	b	9.5
	c	9.6
	d	9.9
	e	10.0
	f	10.0
	g	9.9
	h	10.3?
	x	
	y	9.4

May 14, 1896

Praecepte

Identification p. 178

Island Spruce Cont.
 Plate C 9141 taken April 30, 1896 N
 North Field 1. 2 ↑

1	a	78.4	
	b	78.8	
	c	78.9	
	d		Not on plate
	e	8.4	Image somewhat elongated
	f	8.6	Image 1 round
	g	8.6	
	h	8.5	
	x	8.9	
	y	7.9	
			Other stars do not show faint images

2	a	9.2	
	b	9.5	
	c	9.7	
	d		Not on plate
	e	9.8	
	f	10.0	
	g	10.0	
	h	9.9	
	x	n.s.	
	y	9.4	

May 14, 1896

Plate C 9141, North Field, continued

3	a	7.6	
	b	8.0	
	c	8.0	
	d	8.4	
	e	8.6	
	f	8.7	
	g	8.7	
	h	8.9	
	x	8.0	
	y		

Images in (3) elongated

4	a	9.4	
	b	9.6	
	c	9.7	
	d		Not on plate
	e	10.0	
	f		n.s. There is a grain in this plate probably hiding f
	g	10.2	
	h	10.0	
	x	n.s.	
	y	9.6	

May 14, 1896

Plate C 9141 Continued - Dult. Field

1	a	7.9
	b	8.3
	c	8.4
	y	8.3
	f	

These are the only stars which show faint images

2	a	9.7
	b	10.0
	c	10.2
	y	9.9
	f	

3	a	8.1
	b	8.5
	c	8.6
	y	8.4
	f	

4	a	9.7
	b	10.1
	c	10.2
	y	10.1
	f	

May 14, 1896

Island Spr., Cal.
Plate C 9142, taken April 30, 1896
Dult. Field

1	a	6.5	6.0
	b	6.9	6.5
	c	7.0	6.6
	d	7.1	
	e	7.1	
	f	7.1	
	g	7.1	
	h	7.2	
	x	7.4	
	y	6.5	

Not on plate

Images in 3 are
somewhat elongated

These stars only show faint images

2	a	8.3
	b	8.7
	c	8.7
	d	8.9
	f	9.1
	g	9.1
	h	9.1
	x	9.4
	y	8.6

For identification exp. 178

May 14, 1896

Plate C 9142 taken Apr. 30, '96 continued

3	a	6.7	6.3
	b	7.0	6.7
	c		6.9
	e		7.2
	f		7.5
	g		7.4
	h		7.4
	x		7.8
	y		6.7

4	a	8.2
	b	8.7
	c	8.8
	d	Not on plate
	e	9.0
	f	9.1
	g	9.1
	h	9.0
	x	9.4
	y	8.5

May 14, 1896

Plate C 9142 Cont. South field

1	a	7.0	6.5
	b		6.9
	c		7.0
	e		7.5
	f		7.7
	g		7.7
	h		7.8
	x		8.0
	y		7.0

2	a	8.9
	b	9.0
	c	9.0
	e	9.1
	f	9.3
	g	9.3
	h	9.2
	x	9.6
	y	9.0

May 14, 1896

Plate 9142, South field, continued

3	a	6.7	6.2
	b		6.4
	c		6.8
	e		7.2
	f		7.5
	g		7.8
	h		7.7
	x		8.0
	y		7.2

4	a		8.6
	b		9.0
	c		9.0
	e		9.3
	f		9.4
	g		9.4
	h		9.4
	x		9.6
	y		9.0

May 15, 1896

Island Spruce cut.

Plate C 9143, taken April 30, 1896
North Field

Prairie

1	a	7.0
	b	7.4
	c	7.5
	d	
	e	8.0
	f	8.2
	g	8.0
	h	8.2
	x	8.5
	y	7.4

Not on plate

1
0.3
4
0.5Images (2)
slightly elongated

2	a	9.0
	b	9.3
	c	9.5
	e	
	f	9.7
	g	9.8
	h	9.8
	x	10.3
	y	9.2

For identification of stars see p. 298

May 15, 1896 Iceland Spar cont
 Plate C 914³ taken Apr. 30 '96 continued
 (North field)

3	a	7.2
	b	7.7
	c	7.7
	e	7.8
	f	8.2
	g	8.2
	h	8.2
	x	8.6
	y	7.8

Imagines in (3) somewhat elongated

4	a	9.1
	b	9.4
	c	9.5
	d	c
	e	9.7
	f	
	g	9.8
	h	9.8
	x	10.3
	y	9.4

a grain in plate hides f

May 15, 1896 Iceland Spar cont
 Plate C 914³ continued
 South Field

1	a	7.8
	b	8.3
	c	8.3
	e	8.6
	f	8.9
	g	8.8
	h	8.9
	x	9.1
	y	8.2

2	a	9.4
	b	9.7
	c	9.7
	e	9.9
	f	10.1
	g	10.1
	h	10.1
	x	n.s.
	y	9.5

May 15, 1896

Plate C 9143, Beta Field, continued

3	a	8.0
	b	8.3
	c	8.3
	e	8.7
	f	9.0
	g	9.0
	h	8.9
	x	9.2
	y	8.2

4	a	9.8 ⁵	b mess. first
	b	9.8	
	c	9.8	
	d		
	e	10.1	
	f	n.s.	
	g	10.3	
	h	10.2	
	x	n.s.	
	y	9.8	

May 15, 1896

Measure on I plates of comparison stars to R Aurigae. (Beta plate than those measured pp 97). For C plates see this book page 137

Plate I 2924 taken Jan. 26, 1891

a	4.2	8.7	4.5	Images much elongated
b	4.8	4.3	5.1	
c	5.0?	4.5	5.3	
c	6.0	6.3		
d	6.9	7.2		
e	7.0	7.3		
f		7.7		
g		8.0		
g		8.2		
h		8.9		
k		8.7		
l		8.9		
m		9.5		
n		9.0		
o		9.1		
o		9.4		
p		10.1?		
q		10.1?		
r		n.s.		
s		n.s.		
t		n.s.		
v		10.1		

May 18, 1896

B. Aurigae Cnt.

Plate I 5481 taken Jan. 31, 1892

a	5.9	3.2
b	5.2	5.5
c	4.8	5.1
c'	5.0	5.2
d	6.0	6.4
e	5.8 5.8	6.1 6.4
f	7.8	7.1
g	6.8	7.1
h		8.1
i		8.0
j		8.2
m		9.0
n		8.7
o		8.9
o'		9.0
p		10.0
p'		10.1
q		n.s.
r		n.s.
t		n.s.
v		8.2
g		7.7

c' meas. fruit

May 19, 1896

B. Aurigae Cnt.

Plate I 7564 taken Jan. 5, 1893

a	4.0	4.3
b	5.2	5.5
c	5.0	5.3
d	5.8	6.1
e	5.7	6.2
f	6.2	6.5
g	6.4	6.7
h		7.6
k		7.6
l		7.7
m		8.7
n		8.0
o		8.5
p		9.9
q		10.0
r		10.1
s		10.2
t		n.s.
u		n.s.
v	6.4	6.7
c'	5.3	5.8
g'	6.7	6.9
10'		8.7

May 19, 1896 B. Aurigae Cont

Plate C 11908 taken Nov. 15, 1894

a	4.9	5.2
b	6.5	6.8
c	6.0	6.3
c'	6.6	6.9
d	7.1	7.4
e		7.7
f		8.0
g		8.0
g'		8.3
h		8.9
k		8.7
l		8.9
m		9.4 ⁵
n		8.9
o		9.1
o'		9.4
p		10.0
q		10.1
r		n.s.
s		n.s.
t		n.s.
u		n.s.
v		n.s.

The light changed rapidly during examination of this plate, with an approaching storm. Elements perhaps affected.

May 19, 1896

Examination of plates to see whether
companion star c for β Cephei is variable

Plate I 1552 taken Aug. 1, 1890

 $c' 1c$

Plate I 1930 taken Oct. 1, 1890

 $c' 1c$ $c 5c''$ $e 2c$

Plate I 1927 taken Oct. 1, 1890

 $c' 3c$ $c 3c''$

Plate I 4031 taken Aug. 18, 1891

 $c' 1c$ $c 4c''$ $e 0f$

Edge of plate Plate I 6969 taken Sept. 7, 1892

 $c' 0c$ $c 5c''$

Plate I 8935 taken July 24, 1892

 $c' 8xc$ $c 82c''$

Plate I

 $c' 8c$ $c 4c''$

Along edge

Edge of plate

May 19, 1896. [Sept. cont.]

Plate I 9204 taken Aug. 13, 1893

 $c' 3c$ $c 3c''$

Plate I 9463 taken Sept. 12, 1893

 $c' 3c$ $c 4c''$

Plate I 10098 taken Nov. 30, 1893

 $c' 3c$ $c 3c''$ $f 1c$

Plate I 11462 taken Sept. 29, 1894

 $c' 4c$ $c 3c''$ $f 1c$

Plate I 11695 taken Oct. 17, 1894

 $c' 4c$ $c 2c''$ Edge of
plate

Plate I 11696 taken Oct. 17, 1894

 $c' 3c$ $c 10c''$ Edge of
plate

