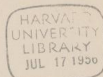


KG
11365
942

KG 11365-992



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Circumpolar Variables.

Plates marked with Comparison Stars.

<i>T Cassiopeiae</i>	I 23349	I 81	C 6367
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<i>T Ursae Majoris</i>	I 5723	I 17812	C 3502
<i>S Ursae Majoris</i>	I 5423	I 17812	C 3504
<i>S Boötis</i>	I 6093		C 3511
<i>R Camelopardalis</i>	I 2303		C 8326
<i>R Ursae Minoris</i>	I 13568		C 3574
<i>R Draconis</i>	I 23349	I 844	C 5633
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<i>T Cassiopeiae</i>	III 157-164; X 199, 202, 203, 204	I 79-94, 156; III 27, 29; IV 77, 78, 93-118, 139 113-119
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<i>R Ursae Majoris</i>	III 70-78; X 207, 208-215	II 146-157; III 60; IV 40
<i>T Ursae Majoris</i>	III 79-87; IV 8-11	X 177-189; III 58; IV 35; X 12-60, 108, 123 (X 112, 114, 97, 118)
<i>S Ursae Majoris</i>	III 88-95	X 194-205; III 59; IV 36; X 75-102 (X 115, 116, 117, 120)
<i>S Boötis</i>	III 96-103; IV 22; X 216, 217	II 210-220; III 4, 165; IV 38
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<i>R Draconis</i>	III 114-121	III 34-43; IV 91
<i>S Cygni</i>	II 158-161; III 122-126; IV 47, 12	II 162-172; IV 72
<i>T Cephei</i>	I 157-160; III 145-148; IV 23	I 72-178; III 24, 136
<i>S Cephei</i>	I 126, 127; III 149-152, 218, 219	I 142, 153, 155; II 30; III 135
<i>R Cassiopeiae</i>	I 110; III 153-156, 166, 167; IV 80, 32-34; I 114-122, 154; III 23; IV 41, 79, 97, 138, 140-43	

December 12, 1902

Measures of faint Comparison Stars
for S Cygni

Plate I 141 taken Nov. 16, 1889

g	8.7
r	8.7
s	9.0
t	9.7
u	10.2

Plate I 16946 taken Dec. 31, 1896

g	9.7
r	9.7
s	10.0
t	10.3
u	10.6?

Images, especially of g and r, have poor focus

Plate I 17425 taken Feb. 24, 1897

g	9.8
r	9.8
s	10.0
t	10.5?

fairly seen, but too faint to measure with scale

December 12, 1902

R Canupardali - Estimates of brightness
of faint comparison stars

Plate I 14764 taken March 31, 1896 -

n 1 m
n 2 l
o partly encircled by defect
p too faint to compare
u n.s.

Plate I 18120 taken May 19, 1897 -

n 1 m
n o l
l 5 o.
o 2 p
g n.s.

Plate I 18551 taken Aug. 17, 1897 -

n 1 m
n o l
l 5 o
o 1 p
p 2 g

December 12, 1902

R. Amalpendalis. Estimates of Magni-
tude Brightness of faint Comparison Stars Continued

Plate I 38915 taken June 23, 1902

m o n

n 2 L

660

01p

p19

Image of γ is in sharper focus than β

Plate I 15338 taken March 12, 1897

n 2 m

m 2 L

Image of α extremely diffuse. I think there
is a defect in the film
for too faint to compare with L

Plate I 15907 taken Sept. 7, 1896

m o n

n 2 L

650

02p

p39

This plate was not measured with scale
but I include it in making these esti-
mates, because it shows the faint stars
much more clearly than any other plate.
Comparison good.

December 12, 1902

S Cygni - Estimates of brightness of faint
Comparison Stars.

Plate I 141 taken Nov. 16, 1889

g12

r 22

s 5 t

t 4 u

Images clear but not in very good focus

Plate I 44077 16976 taken Dec. 31, 1896

g12

r 32

s 4 t

t 2 u?

I am not absolutely certain of identification of
u. There is an object in that position but the plate is
not perfectly clear and it may not be a star image

Plate I 17425 taken Feb. 24, 1897

g102

r 42

s 4 t

t 2 u

Estimates on plate I 141 repeated on page 10

December 15, 1902

Measure of faint comparison stars
for T Ursae Majoris.

Plate I 5723

s 8.7

t 9.6

u 9.7

w 9.9

x 10.4

Image from - defect in film

~~y ns.~~~~f 10.0~~

Image from variable (bright) star

Plate I 17811 taken April 11, 1897

s 8.8

t 9.1

u 9.3

w 9.5

this image is in good focus

x 10.0

~~y not certainly identified~~~~f " "~~

Pos. from except s & w

December 15, 1902

T Ursae Majoris continued

Plate I 18100 taken May 18, 1897

s 9.6

t 10.1

u 10.1

w 10.4

x

f ns.

not seen through scale, though barely visible without

Plate I 18316 taken July 7, 1897

s 9.7

t 10.2

u 10.1

w 10.5

x ns.

~~y ns.~~~~f ns.~~

Not included in ledger

One no plate is the variable
near the centre. Hence the focus is
poor on all.

December 15, 1902

Ursae Majoris - Estimates by Argeland's
method of brightness of faint comparison stars

I 5723

s 5 t

t 1 u

u 3 w

w 2 x

x 0 y

Plate I 17811

s 4 t

t 0 u

u 0 w

w 4 x

y, y n.s.

This plate has poor focus, though the
images are clear. The image of w is sharper
than the others.

Remains
December 16

I 5723 taken Feb. 17, 1892

s 7 t

t 1 u

u 2 w

w 3 x

y not certainly identified

December 15, 1902

Ursae Majoris - Faint comparison stars
continued

Plate I 18100 taken May 18, 1897

s 5 u

u 1 t

t 2 w

w 4 x

x 0 y?

y not positively identified

Plate I 18316 taken July 7, 1897

s 5 t

t 1 u

u 3 w

x, y, y n.s.

December 15, 1902

Seyfert - Estimates of brightness of
faint Companion Stars. See page 7

Plate I 141 (reprinted from page 4)

g' 2r
n 1s
s 4t
t 3u

It is difficult to estimate the re-
lation of g', because it is close to the
variable, which is bright.

Distance from s to t difficult to es-
timate. It may be more than 4 grades.

December 15, 1902

Estimates of brightness of stars w'
near B Ursa Majoris Continued from Pl. 5 p. 215

Plate I 3170 taken Feb. 22, 1891

t 1u
w', w'ns.

Plate I 8123 taken Feb. 27, 1893

t 3u
wou'
w'ns.

Plate
faded
very poor
focus

Plate I 20074-
Spectrum plate

Plate I 14399 taken Jan. 30, 1896

w'ns.
w = 1

Plate I 8317 taken March 29, 1893

w'ns.
t = .2

Plate I 16249 taken Oct. 22, 1896

t 3w'
w' 1u
w'ns.

December 15, 1902

Star w' near R Urs. Maj. Continued

Edge of plate Plate I 8311 taken March 29, 1893
 w' n.s.
 $u = .1$

Plate I 19546 taken Nov. 13, 1897
 Not a best plate

Clear plate Plate I 16752 taken Dec. 13, 1896
 $t = 4u$
 $u = 3w$
 $w = 2w$
 $x = n.s.$
 w' on verge of invisibility

Pl. B. u faint
 n w bright
 Plate I 18101 taken May 18, 1897
 $t = 4u$
 $u = 1w$
 $u = 2w$

Edge of plate Plate I 3159 taken Feb. 22, 1891
 w' n.s.
 $t = .13$
 u, u n.s.

Edge of plate
 Image very
 poor and
 faint
 Plate I 24838 taken March 14, 1900
 $t = 4u$
 $u = 4w$
 $u = 5w$
 $w = 2x$
 This plate probably normal Dec. 16

December 15, 1902

Plate I 28530 taken Feb. 27, 1902
 $t = 4u$

w' n.s.
 An object close to position of w' and exactly
 resembling a star image does not identify
 when plates are superposed

Plate I 16914 taken Dec. 28, 1896
 w' n.s.
 u, u n.s.
 $t = .3$

Plate I 3171 taken Feb. 22, 1891
 no faint stars on plate

Plate I 17345 taken Feb. 16, 1897
 w' n.s.
 $t = .05$

Pl. B.
 u faint
 Plate I 20411
 $t = 4u$
 $u = 1w$
 u n.s.

Poor from image very faint and poor - Rather
 near edge of plate

u faint
 Plate I 22710 taken April 19, 1899
 $t = 4w$
 $w = 1u$
 u n.s.

Near edge of plate - Image poor

December 15, 1902

Star w near R Mrs. May

Plate I 28161 taken

t 4 w

w 1 u

w n.s.

Near edge
of plate image
is clear, though
faintExtreme edge
of plate

Plate I 7109 taken Feb. 26, 1893

w n.s.

t = 1

Plate I 16708 taken Dec. 7, 1896

w n.s.

t = 1

Plate I 14910 taken April 15, 1896

w n.s.

t = 1

Plate I 15696 taken Aug. 7, 1896

t 5 u

w 1 u

w n.s.

x n.s.

Images very faint -

Plate I 6062 taken April 11, 1892

t 4 u

w 0 w

w 2 u

Image of w looks different from the others. Ad-
just in film may make it appear brighter

December 15, 1902

Star w near ^{upper} R Mayors

Plate I 16617 taken Nov. 30, 1896

t 4 u

u 3 u

w 2 w

x n.s.

Plate I 10855 taken March 20, 1894

w n.s.

2 = 3

t concealed by defect - u n.s.

Plate I 8131 taken Feb. 27, 1893

Extreme edge of plate. Not measured

Plate I 14824 taken April 8, 1896

t 4 u

u 3 u

w 0 w

w 6 x

Images clear x on verge of invisibility but
recognizable. w seems more than 6 grades
brighter than x. "Frame of w" sharper than that
of other stars.

Plate I 12786 taken May 3, 1895

w n.s.

t = 1

December 15, 1902

Lat. W near P. Ursae Majoris cont.

Plate I 8132

u 3 t

w, w-n.s.

Vary from plate

Plate I 836 taken March 17, 1890

Spectrum plate.

Plate I 15176 taken May 27, 1896

t 4 u

u 3 w

w' o w'?

x n.s.

Images from comparison of u + w uncertain

Plate I 14997

not measured, quality?

Plate I 7132 taken April 12, 1897

t 3 u

u 3 u'

u' 2 w'

x n.s.

Plate I 25151 taken April 14, 1900

t 3 u

u, w, n.s.

December 15, 1902

Lat. W near P. Ursae Majoris cont.

Plate I 737 taken March 5, 1890

u 4 w

w 2 x

2 1 t

t 4 u

Is this plate isochromatic? It is dark and of an olive tint. There is no question of the brightness of w. The image appears sharper than that of other stars, but there does not appear to me to be any defect.

Plate I 15511 taken July 21, 1896

w' n.s.

t = .1

Plate I 22755 taken April 22, 1899

t 5 u

u o w

w' n.s.

Images of u and w' on the verge of invisibility; superposition identifies them unquestionably. w' at first appears somewhat brighter than u, but this appears to be due to a shading or defect in film near u.

December 15, 1902

Star w' near R Ursae Majoris continued

Pos plate.
Near edge

Plate I 946 taken April 2, 1890
t 3 w'

w' 3 u

u m.s.

x m.s.

Form of w' sharper than other.

Yellowish tint - is plate monochromatic?

Plate I 2184 taken Nov. 30, 1898

t 5 w'

w' 1 u

u 2 x

a defect partly concealed in image
of w' very clear. Others in poor focus.
Comparison difficult. w' appears far
more distinctly than u, u' or x.

Plate I 4310 taken March 29, 1893

Near edge of plate. Shadowy, image
seen but comparison is almost impossible

Plate I 18203 taken June 11, 1897

w' m.s.

z = 1

Plate I 19784 taken Dec. 16, 1897

t 6 u

u 1 u'

u' 1 w'

x m.s.

Pos focus
Comparison
difficult

December 15, 1902

Star w' near R Ursae Majoris - continued

Plate I 15413 taken Aug 5, 1897
w' m.s.

z = .2

Plate I 16916 taken Dec. 28, 1896

t 5 u

u 2 w'

w' 1 w'

x m.s.

Image shadowy - comparison uncertain

Plate I 6067 taken April 11, 1892
t 3 u

u, w' u.s.

Plate I 16508 taken Nov. 12, 1896

t 3 u

u o w'?

w' m.s.

I think

there is

a defect

in image

of w', in

fact I

am certain

of it, for

there are

several

all over

this plate

Dec. 17

Is there a defect in position of w'? Entirely what I
has noticed before - a sharpening of focus in w'. In this
case it is as if a sharp dot were in center of blurred im-
age. I should think it a defect if I had not re-
peated it several times before. Would such a defect
be repeat itself continuously with that particular
star and no other? When plate is superposed it
coincides perfectly with image of w'.

December 15, 1902

Star w near R Ursae Majoris

Plate I 3160, taken Feb. 22, 1891

 w n.s. $z = 1$

Plate I 23624, taken Sept. 21, 1897

 w n.s. $z = 1$ NB u faint Plate I 20442 taken March 9, 1898 $t = 6u$ $u \circ w$ w n.s. x n.s. w should be seen if it were even half a magnitude fainter than u , which appears very distinctly

Plate I 14760 taken March 28, 1896

Poor plate. not measured

Plate I 28342 taken Jan. 25, 1902

 $t = 2u$ u w n.s.

Dark plate. Images from

Plate I 943 taken April 2, 1890

 $t = 5w$ w n.s. u hidden by defects in plateOlive tint
 w on edge
of invisibility

December 15, 1902

Star w near R Ursae Majoris

Plate I 18318 taken July 7, 1897

 w n.s. $u = .05$ $t = 4u$

Plate I 16437 taken Nov. 2, 1896

 $t = 5u$ $u \circ w$ w $\frac{1}{2}$ w w $5x$

Plate I 28160 taken Dec. 30, 1901

 $t = 5u$ $u \circ w$ w n.s. w $5x$

Plate I 16119 taken Oct. 8, 1896

 $t = 4u$ $u \circ 3u$ u $4w$ w $1x$ Images clear. That of w diffuse

Pin plate

Plate I 18604 taken Aug. 29, 1897

 $t = 5u$ $u \circ 3u$ u $\frac{1}{2}$ w Images w $\frac{1}{2}$ w incomparable. It looks almost like a double on film. Not identifiable when plates are superposed. I think if about 200 f. 500 f.

December 15, 1902

Star w^- near R. Ursae Majoris continued

Plate I 15316 taken June 19, 1896

 $w'n.s.$ $t = .1$

Plate I 24837 taken March 14, 1900

 $t 5u$ $u 1u'$ $w' 3w' 2$ $x n.s.$ Identification of w' not perfectly certain

Plate I 22929 taken May 25, 1899

 $t 4u$ $u 2w'$ $w' 3u'$ $w' 2x$

Plate I 17058 taken Jan. 12, 1897

 $t 4u$ $u 2u'$ $w' 2w'$ $w' 5x$

Plate I 15987 taken Sept. 20, 1896

 $t 6u$ $u 0 u'$ $w' 0 w'$ $x n.s.$

December 15, 1902

Star w^- near R. Ursae Majoris, cont.

Plate I 17526 taken March 11, 1897

 $t 5u$ $u 3u'$ $w' 1w'$ $w' 5x$ A defect on film near x makes estimate difficult.

Plate C 3379 taken Feb. 1, 1891

 $w'n.s.$ $t = .2$

Plate C 7810 taken May 6, 1895

 $w'n.s.$ $u = .1$ $w'n.s.$

Plate C 8874 taken Feb. 20, 1896

 $w'n.s.$ $u = .3$

Plate C 5498 taken April 11, 1893

 $t 5u$ $u 2w'$ $w' 1u'$ $w' 3x$ x on verge of invisibility

December 15, 1902

Star ν near R. V. M. Magnis ant.

Plate C 3397 taken Feb. 4, 1891

t 4 ν u 4 ν u' 2 ν

x n.s.

Plate C 7773 taken May 2, 1895

t 4 ν u 3 ν u' 1 ν

x* hidden by defect on film

Plate C 9991 taken July 15, 1895

No faint stars appear

Plate C 8641 taken Dec. 22, 1895

No faint stars appear

Plate C 3415 taken Feb. 5, 1891

t 4 ν u 4 ν u' 1 ν

x n.s.

Plate C 8322 taken Oct. 1, 1895

December 16, 1902

Star ν near R. V. M. Magnis Continued

Plate C 8382 taken Oct. 1, 1895

t 5 ν ν 5 xx 1 ν ?

u partly concealed by defect in film

x and u are both nearly invisible. I can find them only by superposition. Of the presence of x there is no question. Of u I feel some doubt. The film has many defects.

Plate C 5325 taken Jan. 20, 1893

t 5 ν u 3 ν u' 1 ν ν 5 x

Images clear. ν seems less than a grade fainter than u.

Plate C 3878 taken Feb. 1, 1894

t 5 ν u, ν n.s.Defect on film like the image near position of ν

Plate C 3654 taken April 26, 1891

t 5 ν u 3 ν u' 1 ν

x n.s.

Images
elongated
u' & ν
extremely
faint

December 16, 1902

Star W near R Ursa Majoris Continued

Plate C9127 taken April 29, 1896

 u, v, w n.s. $t = .2$

Plate C7426 taken Oct. 25, 1895

 $t = u$ u, v, w u, v, w Essentially doubtful. $u + w$ are barely visible.

Plate C3698, taken May 1, 1891

 $t = u$ u, v, w n.s. u on the verge of invisibility

Plate C6725 taken April 26, 1894

 u, v, w n.s. $t = .3$ A faint object near position of w does not identify when plates are superposed

Plate C4699 taken May 4, 1892

 u, v, w n.s. $t = .2$

Plate C6924 taken April 26, 1894

 $t = .1$

Faintly shown

December 16, 1902

Star W near R Ursa Majoris Continued

Plate C6712⁷¹⁵⁶ taken Nov. 3, 1894 $t = .2$

faintly shown

Plate C7705 taken April 17, 1895

 $t = u$ u, v, w - ?I cannot properly make an estimate. Just a trace of w - can be seen when plates are superposed, not otherwise. No trace at all of u or x .

Plate C3374 taken Feb. 1, 1891

 $t = u$ $u = .4$ u n.s. w n.s.?An object resembling star image close to position of w does not coincide when plates are superposed. There is a blurred appearance on plate in exact position of w which might possibly be a star image. There is no trace of u .

Plate C5754 taken July 23, 1893

 $t = u$ u, v n.s. $u = .05$

December 16, 1902

Star π near R. Ursa Majoris continued

Plate C 2287 taken Sept. 15, 1895

 u, w, π n.s. $t = .2$

Plate C 7638 taken March 25, 1895

 $t = .13$

fainter stars n.s.

Plate C 5499 taken April 11, 1893

 $t = 4u$ u not certainly identified π on verge of invisibility $u \ 5\pi^2$ x n.s.

Plate C 7424 taken Nov. 11, 1895

 $t = 5u$ u, π are both found to be present, by superposition, but any comparison is impossible. $u = .4$ x n.s.

Plate C 3500 taken Feb. 22, 1891

 $t = 4u$ $u \ 1\pi^2$ $\pi \ 3u$ $u \ 0x$ The image of π has a peculiar appearance as if a scratch on the film might have been made.

December 16, 1902

Star π near R. Ursa Majoris, continued

Plate C 3500 continued

appears brighter. But image of u has something of the same appearance. In examining I plate I was several times impressed with a similar appearance in image of π . Therefore it seems not at all certain that there is any defect.

Plate C 3615 taken April 8, 1891

 $t = 4u$ $u \ 3u$ $u \ 1\pi^2$ x n.s. $\pi = .3$

Images elongated, but clear

Plate C 3565 taken March 16, 1891

 $t = 4u$ $u \ 3u$ $u \ 1\pi^2$ x n.s.

Plate C 8990 taken March 27, 1896

 $t = 3u$ $u \ 5\pi^2$ $\pi \ 1u$ $u \ 6x$

Images clear

 x n.s. on verge of invisibility

December 16, 1902

Star π near R Ursa Majoris continued

Plate C 3536 taken March 1, 1891

 $t 5u$ $u 3u$ $u 1\pi$ xms

Plate C 8009 taken Jan. 30, 1896

 $t 4u$ $u 4u?$ $u 1\pi?$ xms $u + \pi$ on verge of invisibility

Plate C 5450 taken March 19, 1893

lens - not measured

Plate C 8090 taken Aug. 2, 1895

no faint stars on plate

Plate C 5808 taken Aug 2, 1893

 $u, u', u'' ms$ $2 \approx 1$

Plate C 8189 taken Aug 30, 1895

 $2 5u$ $u', u'' ms$ $u = 2$

December 16, 1902

Star π near R Ursa Majoris continued

Plate C 7191 taken Nov. 6, 1894

No faint stars on plate

Plate C 5626 taken June 26, 1893

 $t 4u$ $u = 2$ $u', u'' ms$

Plate C 8425 taken Oct. 25, 1895

No faint stars on plate

Plate C 5525 taken May 5, 1893

 $t 4u$ $u 3u$ $u 1\pi$ xms $u + \pi$ on verge of invisibility

Plate C 2521 taken March 1, 1891

 $t 5u$ $u 3u$ $u 2\pi$ Defect in film covers position of x

Plate C 7782 taken May 3, 1895

 $t 5u$ $u 4u?$ $u', u'' ms$ u not certainly identified u seems to be about .3

December 16, 1902

Star π near R Ursae Majoris continued

Plate C 7615

Too poor to measure

Plate C 4668 taken April 20, 1892

 t 4 u u 3 u' u' 2 π' π' 3 x

Plate C 7704 taken April 17, 1895

Faint stars not on plate

Plate C 7199 taken Nov. 6, 1894

 t 4 u u , π' , u' $u = .2$

Plate C 3390 taken Feb. 2, 1891

Faint stars not on plate

Plate C 5324 taken Jan. 20, 1893

 t 4 u u 3 u' u' 2 π' π' 5 x

December 16, 1902

Star π near R Ursae Majoris continued

Plate C 6709 taken April 25, 1894

 u , u' , π' u s $t = .1$

Plate C 4168 taken Nov. 11, 1891

 u , u' , π' u s $t = .2$

Plate C 9154 taken April 30, 1896

 u , u' , π' u s. $t = .1$

Plate C 4169 taken Nov. 11, 1891

Faint stars not seen

Plate C 6374 taken Dec. 20, 1893

 t 5 u u 3 u' u' 2 π' x u s.

Plate C 8234 taken Sept. 4, 1895

 t 4 u u 3 u' u' 0 π' π' 6 x Image of u in sharp focus; π' diffuse - difficult to
measure the two.

December 16, 1902

Star η near R Ursa Majoris, continuedPlate C 9064 taken April 15, 1896
Faint stars not seenPlate C 3540 taken Feb. 27, 1891
Tracks - not measuredPlate C 3451 taken Feb. 11, 1896
 $t = u$
 $u = .1$
 $w, w' \text{ n.s.}$ Plate C 7593 taken March 3, 1895
Faint stars not seenPlate C 3499 taken Feb. 22, 1891
 $t = u$
 $u = 3w$
 $u = 2w'$
 $w = 5v$ Plate C 3366 taken Jan. 30, 1891
 $t = 4u$
 $u = 3w$
 $u = 2w'$
X obscured by defect

December 16, 1902

Star η near R Ursa Majoris continuedPlate C 9068 taken April 15, 1896
 $t = 5u$
 $u, w' \text{ n.s.}$
 $u = .2$ Plate C 8771 taken Jan. 18, 1896
 u, w, w'
 n.s.
 $t = .4$ Plate C 3429 taken Feb. 10, 1891
 $t = 5u$
 $u = 3w$
 $u = 1w'$ Plate C 7342 taken Dec. 17, 1894
 $t = 5u$
 $u, w' \text{ n.s.}$
 $u = .2$ Plate C 7456 taken Jan. 22, 1895
 $t = 5u$
 $u = 4w$
 $u = 2w'$
 $x = 2v$

December 16, 1902

Star W near R Wane Majors continued

Plate C 5493

 u, u', w ns. $t = .3$ Plate C 8485 taken Nov. 15, 1895
faint stars not seen

Plate C 3450 taken Feb. 11, 1891

 $t = 5u$ u, u' w, w' $w'bx$ Plate C 8355 taken Oct. 5, 1895
faint stars not seenPlate C 5653 taken July 2, 1893
faint stars not seenPlate C ⁷⁵⁵⁰~~7550~~ taken Feb. 20, 1895
faint stars not seenPlate C 7941 taken June 18, 1895
faint stars not seenPlate C 3375 taken Feb. 1, 1891
 u, w, w' ns
 $s = .1$

December 16, 1902

Star W near R Wane Majors continued

Plate C 7961 taken May 1, 1895

 $t = 5u$ $u = .05$ u, w' ns.

Plate C 7054 taken Sept. 27, 1894

 u, w, w' ns. $t = .1$

Plate C 3400 taken Feb. 4, 1891

 $t = 5u$ $u, 3u'$ $w'ns.$ $xns.$ $u' = .1$

Plate C 6854 taken June 24, 1894

 u, w, w' ns. $t = .1$ Plate C 4700 taken May 4, 1892
faint stars not seen

Plate C 6577 taken Feb. 8, 1894

 u, w, w' ns. $t = .2$

December 16, 1902

Star π near R Ursae Majoris continued

Plate C 3346 taken March 7, 1894
 Faint stars not seen

Plate C 7225 taken May 7, 1895
 $t\#u$
 $u\ 3u$
 $u\ 1u$
 $u\ 3u$

Younger of invisibility. All comparisons
 difficult on account of faintness

Plate C 9122 taken April 29, 1896
 Faint stars not seen

Plate C 3462 taken Feb. 12, 1894
 $t\ 5u$
 $u\ 4u$
 $u\ 1u$
 $x\ m\ s.$

Poor plate - Surveys poor

Plate C 9065 taken April 15, 1896
 $t\ 5u$
 $u, u\ ns$

December 21, 1902

Star π near R Ursae Majoris continued

Plate R ^{Ursae Majoris} ~~Ursae Majoris~~ - Faint stars

Inspected π of variability,
 as it occasionally appeared
 to be unusually bright with
 respect to u and u' . Usually
 the order is $u\ 3u\ u' 1u\ 3x$
 on plates 28160, 28161 u is not
 seen at all and π appears as
 bright as u , which latter seems
 to be unusually faint with respect
 to t .

Plates 22710, $u\ 1u\ u\ 0u$
 28160 $u\ ns\ t\ 4u\ 0u$ bright
 28161 $u\ ns\ t\ 1u$
 20440 $u\ 0u\ u\ 3u$
 18101 $u\ 3u\ u\ 2u$ (u bright spot is

show either u bright or u faint, which
 Except 18101 which seems rather ^{equal} u and u'
 to show u' bright

Do all these stars vary? But
 two plates can be found to show
 them, and then they are faint.

December 16, 1902

Star or near R Ursa Majoris continued

Plate C 3346 taken March 7, 1894
Faint stars not seenPlate C 725 taken May 7, 1895
t#u
u 3w
w 1w
w 3p?X range of invisibility - All companions
difficult on account of faintnessPlate C 9126 taken April 29, 1896
Faint stars not seenPlate C 3462 taken Feb. 12, 1891
t 5u
u 4w
w 1w
x m s.

Poor plate - Surges from

Plate C 9065 taken April 15, 1896
t 5u
u, w ns

December 21, 1902

Star or near R Ursa Majoris continued

Plate AC 1159 taken Jan. 18, 1901

s 4w

w 1t

w ok

These images seem fairly clear but I
do not feel certain that they represent
the actual brightness of the stars. The image
of w is the clearest and in better focus than
the other images.

Plate AC 1991 taken Nov. 20, 1901

w 7s

s 0t

u, w n.s.

With the proudest ($\frac{1}{2}$ in) eye piece a sharp spot is
seen in the midst of the image of w, which
might be a dyest. But why do I so often see
a similar appearance in the image of w and
never in the images of the adjacent stars.

Reduced April 19, 1915
B.F.M.

December 19, 1902

Estimates of the Brightness of γ Ursa
MajorisPlate I 18316 taken July 4, 1897 *adpt*
9.13 γ of 9.13 8.66 $v = 8.90$ α β 9.13 α β
8.66 γ of 9.13 9.36 ϵ too much brighter for comparison. Image
of γ out of focus, γ too much fainter
for good comparison. Comparison with β
good. Comparison with δ repeated on account of large interval.
January 6, 1916.

Plate I 18100 taken May 18, 1897

7.96 ϵ δ γ 8.76 8.93 $v = 8.84$ α β γ
8.93 δ ϵ γ 9.13 ϵ too much brighter for good comparison

Plate I 16754 taken Dec. 13, 1896

11.84 m 3 γ 12.14 12.07 $v = 12.10$ α β
12.07 γ 3 0 12.37rather
near edge
of plate

Plate I 20375 taken March 5, 1898

9.13 γ of 9.13 8.66 $v = 8.90$ α β
8.66 γ of 9.13 9.36Focus of γ too poor and different for comparison

Plate I 17395 taken Feb. 23, 1897

14.22 m 2 γ 14.42 14.92 $v = 14.67$ α β γ
14.92 γ 2 X 15.12near edge
of plate. Poor
focus.Reduced April 19, 1915
B.F.M.

December 19, 1902

 γ Ursa Majoris continued

Plate I 25197 taken May 15, 1902

7.96 ϵ δ γ 8.06 8.00 $v = 8.03$ α β
 ϵ too much fainter to measure8.00 γ 0 δ 8.00Focus of γ poor - near edge. That of ϵ better.
Focus of δ good. Distort. from variable

Plate I 17536 taken March 12, 1897

13.19 m 4 γ 13.59 13.97 14.02 $v = 13.86$ α β γ
13.97 γ 0 δ 13.97
14.02 γ 2 W 14.22

Plate I 16712 taken December 7, 1896

11.34 m 3 γ 11.64 11.74 $v = 11.69$ α β
11.74 γ 1 n 11.84Focus of γ quite different from that of
 m and n . Comparison uncertainnear
edge
of plate

Plate AC 206 taken Feb. 15, 1899

 v n.s. $v < 12.5$
12.37 $0 = .1$ near
edge
of plate

Plate AC 1562 taken June 21, 1901

 v n.s. $v < 11.1$
11.02 $0 = .1$

Reduced April 19, 1915

December 19, 1902

I Wras Majors continued

Plate A C 291 taken April 11, 1897

11.34 m 3 r 11.64 11.84 11.87 v = 11.78 $\frac{1}{2}$ 06 09

11.84 r 0 m 11.84

11.87 150 12.37

Plate A C 1520 taken June 10, 1901

Repeated images - from focus. edge of plate
not measured.

Plate A C 000 taken April 4, 1900

8.60 d 1 v 8.70 8.79 v = 8.74 $\frac{1}{2}$ 05

8.79 r 3 g 9.09

Plate A C 2721 taken Sept. 2, 1902

r n. s. v $\frac{1}{2}$ 11.44

11.34 m = 1

Inner of plate
images faint

Plate A C 1607 taken July 13, 1901

9.13 f 5 v 9.63 9.26 v = 9.44 19 18

9.26 r 1 g 9.36

Plate A C 1123 taken Jan. 2, 1901

9.13 f 3 r 9.43 8.96 v = 9.20 23 24

8.96 r 4 g 9.36

Plate A C 2820 taken Sept. 13, 1902

r n. s. v < 11.4

11.34 m = .05

Reduced April 19, 1915

December 19, 1902

I Wras Majors, continued

Plate A C 291 taken April 19, 1897

r n. s. v < 11.1

11.02 $\frac{1}{2}$ = .05

Plate A C 297 taken April 10, 1899

r n. s. v < 10.7

10.60 $\frac{1}{2}$ = .1Inner
of plate

Plate I 16786 taken Dec. 14, 1896

11.84 m 3 v 12.14 12.17 v = 12.16 02 01

12.17 v 20 12.37

Plate A C 2068 taken Dec. 6, 1901

r n. s. v < 11.1

11.02 $\frac{1}{2}$ = .05New
edge.
Images
from focus

Plate I 16781 taken Dec. 14, 1896

11.84 m 1 v 11.94 12.07 v = 12.00 06 07

12.07 v 30 12.37

Plate A C 1425 taken April 28, 1901
Not measured - quality 1

Plate A D 110 taken Feb. 6, 1901

r n. s. v < 11.1

11.02 $\frac{1}{2}$ = .1

Reduced April 19, 1915
2.7 m.

December 19, 1902

V Horn Magnis continued

Plate AC 730 taken Feb. 20, 1900

7.96 $\epsilon 3v$ 8.26 8.38 8.30 $v = 8.31$ $\epsilon 5$ 07 $\epsilon 1$ 8.38 $v 0c$ 8.388.30 $v 3d$ 8.60Horn of ϵ and v similar, and different from that of ϵ and d

Plate AD 120 taken Feb. 4, 1901

Plate AC 2075 taken May 1, 1902

7.02 $a 3v$ 7.32 7.76 $v = 7.54$ $\epsilon 2$ $2v$ 7.76 $v 2c$ 7.96

Plate I 25314 taken May 10, 1900

10.12 $\epsilon 2v$ 10.32 10.50 $v = 10.41$ $\epsilon 9$ 07 10.50 $v 1k$ 10.60

Plate AC 1419 taken April 27, 1901

12.56 $v 0p^2$ 12.36 $v = 12.56?$ Both slow, but both more shadows on the
margin of invisibility and incomparable with
other stars.

Plate I 16435 taken Nov. 2, 1896

9.13 $f 4v$ 9.53 9.36 9.92 $v = 9.60$ $\epsilon 7$ 24 32 9.36 $v 0g$ 9.369.92 $v 2k$ 10.12Edge of plate
focus very
poorReduced April 19, 1915 47
2.7 m.

December 19, 1902

Plate AC 1196 taken Feb. 1, 1901

11.02 $\epsilon 2v$ 11.22 11.14 $v = 11.18$ $\epsilon 4$ $\epsilon 2$ 11.14 $v 2m$ 11.34Edge
of plate

Plate I 16257 taken Oct. 22, 1896

7.13 $f 3v$ 7.43 8.86 ~~7.43 8.86~~
8.86 $v 5g$ 9.26

Plate AC 2502 taken April 28, 1902

7.96 $v 0c$ 7.96 8.08 $v = 8.02$ $\epsilon 6$ $\epsilon 6$ 8.08 $v 3c$ 8.38

a too much brighter for comparison

Plate I 25457 taken June 6, 1900

11.34 $m 2v$ 11.54 11.64 $v = 11.59$ $\epsilon 5$ $\epsilon 3$ 11.64 $v 2m$ 11.84

Plate AC 2301 taken Feb. 8, 1902

 $v.p.e.$ $v < 12.7$ 12.56 $p = 1$ There is an object near position of v , which
is probably a defect.

Plate AC 859 taken May 20, 1900

10.60 $k 1v$ 10.70 10.92 $v = 10.81$ $\epsilon 11$ 10.92 $v 1k$ 11.02

Plate AC 1410 taken April 13, 1901

Film defect in position of v
Not measured

Reduced April 19, 1915
8.7. m.

December 19, 1902

Ursae Majoris continued

Plate AC 2680 taken July 14, 1902

10.60 $\kappa 3 \vee$ 10.90 11.24 $v = 11.07$ $\square 17$

11.24 $\vee 1 m$ 11.34

Center of plate - Deneb strongly from and faint - Cassiopeia double star

Plate I 17029 taken Jan. 10, 1897

A defect on film partly obscures the variable, the magnitude of which probably comes between s and t

Plate AC 2237 taken Jan. 24, 1902

v.m.s. $v < 12.4$

12.37 $\alpha = .05$

A faint object near position of variable does not identify star suspected.

Plate AC 2615 taken June 8, 1902

8.60 $d 2 \vee$ 8.80 9.03 $v = 8.92$ $\square 11$

9.03 $\vee 1 \vee$ 9.13

Plate AC 1557 taken June 19, 1901

v.m.s. $v < 11.9$

11.84 $m = .1$

Plate AC 551 taken Dec. 9, 1899

v.m.s. $v < 11.9$

11.84 $m = .05$

Extreme corner of plate

Reduced April 19, 1915
8.7. m.

December 19, 1902

Ursae Majoris continued

Plate AC 1372 taken March 23, 1901

v.m.s. $v < 11.5$

11.34 $m = .2$

n.m.s.

Plate AC 909 taken July 2, 1900

v.m.s. $v < 9.5$

9.36 $g = .1$

Extreme

corner of plate

Plate AC 1743 taken Sept. 14, 1900

9.13 $f 1 \vee$ 9.23 8.76 $v = 9.00$ $\alpha 2 \pm$

8.76 $\vee 6 \vee$ 9.26

Corner

of plate

Plate AC 1159 taken Jan. 18, 1901

10.02 $\vee 1 \vee$ 10.12 $v = 10.02 ?$

a defect across position of g

Plate AC 1555 taken June 18, 1901

v.m.s. $v \leq 12.8$

12.56 $\beta = .2$

Plate AC 245 taken Feb. 22, 1899

v.m.s. $v < 11.4$

11.34 $m = .1$

v may be hidden by defect in plate

Reduced April 19, 1915
9.7.7m.

December 19, 1902

J Wrasse Majors continued

Plate AC 1137 taken Jan. 7, 1901

9.13 f 4r 9.53 9.06 $v = 9.30$ 33 24

9.06 r 3g 9.36

Plate AC 2646 taken June 26, 1902

v m.s. $v < 9.4$

9.36 g' = .05

Plate I 18205 taken June 11, 1897

7.96 l 5r 8.46 8.83 $v = 8.64$ 18 19

8.83 r 3f 9.13

Plate AC 241 taken March 12, 1899

v m.s. $v < 12.1$

11.84 n = .2

e. n. s.

Plate AC 1414 taken April 26, 1901

v m.s. $v < 12.4$

12.37 v = .05

Plate AC 2629 taken June 17, 1902

9.13 f 3r 9.43 8.86 $v = 9.44$ 29 25

8.86 r 5g 9.36

Plate AC 250 taken May 7, 1900

9.36 g' 1r 9.46 9.92 $v = 9.69$ 23 23

9.92 r 2h 10.12

Reduced April 19, 1915 51

December 19, 1902

J Wrasse Majors continued

Plate AC 1175 taken Jan. 25, 1901

Not class L

Plate I 18204 taken June 11, 1897

7.96 l 7r 8.66 9.16 $v = 8.91$ 25 25

9.16 r 2g 9.36

Plate I 25342 taken May 12, 1900

10.12 l 1r 10.22 10.40 $v = 10.31$ 27 29

10.40 r 2K 10.60

Plate I 16537 taken Nov. 14, 1896

10.12 l 1r 10.22 10.30 $v = 10.26$ 24 24

10.30 r 3K 10.60

Plate AC 1669 taken Aug. 21, 1901

Doubt - Not measured

Plate I 22946 taken May 26, 1899

9.36 g' 1r 9.46 9.92 $v = 9.69$ 23 23

9.92 r 2h 10.12

Plate AC 1220 taken Feb. 7, 1901

11.02 l 3r 11.32 11.34 11.34 $v = 11.33$ 21 21

11.34 v 3 m 11.34

11.34 v 5 m 11.84

Smaller fruit - Inner 3 plate

Reduced April 19, 1915
A.T.M.

December 19, 1902

Ursae Majoris continued

Plate AC 2446 taken March 8, 1902
 9.13 γ 3r 9.43 8.96 $v = 9.20$ 23 24
 8.96 γ 4g 9.36

Plate AC 2116 taken Dec. 27, 1901
 V.M.S. $v < 11.9$

11.84 $m = 1$

Plate AC 610 taken December 14, 1899
 V.M.S. $v < 11.9$

11.84 $m = 1$

Plate AC 615 taken Oct. 20, 1902
 V.M.S. $v < 12.4$

12.37 $m = .05$

A faint object near position of middle
 does not identify when plate is superposed

Plate AC 2140 taken Jan. 1, 1902
 V.M.S. $v < 12.2$

$m = .05$ ident. uncertain
 12.89 $m = 1.3$

Plate AC 2534 taken May 9, 1902
 8.00 γ 1r 8.10 8.08 $v = 8.09$ 21 21
 8.08 13c 8.36

Reduced April 19, 1915
A.T.M.

December 19, 1902

Ursae Majoris continued
 Plate I 15309 taken June 18, 1896
 + M.S.

~~M.S.~~ γ probably cancelled by defect13.80 α 1v 13.90 14.02 $v = 13.96$ 06 06P 14.02 v 2W 14.22

faint, but fairly good comparison

Plate AC 2457 taken April 3, 1902
 Not measured - visibility 1

Plate AC 333 taken May 26, 1899
 9.36 γ 3r 9.66 10.02 $v = 9.84$ 18 18
 10.02 γ 1h 10.12

Plate AC 1243 taken Feb. 11, 1901
 V.M.S. $v < 11.4$

11.34 $m = 1$

Plate AC 558 taken Nov. 25, 1899
 V.M.S. $v < 12.9$
 12.80 $g = 1$

Green of
plate

Plate AC 2484 taken April 17, 1902
 8.00 γ 4v 8.40 8.28 $v = 8.34$ 06 06
 8.28 γ 1c 8.38

Manufacturing from 3 different images. differs
 Plate I 25551 taken July 13, 1903

Reduced April 19, 1915
2.7 m.

September 15, 1903

Thrace Majors Untraced

Plate I 19733 taken Dec. 12, 1897

12.56 f 1 r 12.66 12.70 $v = 12.68$ 02 0212.70 r 1 q 12.80

The image of the variable is in sharper focus than other images, and hence comparison is difficult.

Plate I 15697 taken August 17, 1896

10.60 K 3 r 10.90 10.92 $v = 10.91$ 01 0110.92 v 1 L 11.02

Plate I 19686 taken Dec. 2, 1897

Too poor

Plate AC 2611 taken June 6, 1902

8.60 d 2 v 8.80 8.93 $v = 8.86$ 06 078.93 v 2 f 9.13

Plate AC 259 taken March 24, 1899

 v n.s. $v < 11.2$ 11.02 L 2

Plate AC 1991 taken Nov. 20, 1901

11.34 m 3 r 11.64 11.97 11.84 $v = 11.82$ 18 15 0211.97 v 4 0 12.3711.84 v 0 r 11.84Reduced April 19, 1915
2.7 m.

September 15, 1903

Thrace Majors cont.
Plate AC 2259 taken Jan. 30, 190213.19 S 1 r 13.29 $v = 13.29?$ t n.s.The images are on the verge of invisibility. Identification of v seems certain by superposition, but comparison doubtful.

Plate AC 1380 taken March 27, 1901

 v n.s. $v = 12.9$ 12.80 $q = 1$

Plate I 15224 taken Aug. 8, 1896

11.34 m 4 r 11.74 $\frac{11.97}{12.54}$ 11.84 $v = 11.85$ 11 12 0111.97 v 4 0 12.3711.84 v 0 n 11.84

Plate I 19545 taken Nov. 9, 1897

 v n.s. $v < 12.9$ 12.80 $q = 1$ Plate AC 1241 taken Feb. 11, 1901
Field not on plate

Plate I 20170 taken Feb. 6, 1898

7.96 E 4 r 8.36 8.93 $v = 8.64$ 28 298.93 v 2 f 9.13

Near edge of plate images nearest out of focus

Reduced April 19, 1915
R.F.M.

September 16, 1903

I Krasa Mayon's continued

Plate AC 766 taken March 16, 1900

8.38 L 2V 8.58 8.30 $v = 8.44$ 14 14

8.30 V 3d 8.60

Plate AC 1342 taken March 23, 1901

v.m.s. $v < 11.4$

11.34 m.s.

Plate AC 319 taken Aug. 11, 1899

11.02 L 2V 11.22 11.24 $v = 11.23$ 21 21

11.24 V 1m 11.34

Plate AC 726 taken Feb. 9, 1900

7.96 L 3V 8.26 8.40 $v = 8.33$ 07 07

8.40 V 2d 8.60

Plate AC 1111 taken Dec. 29, 1900

7.13 L 1V 7.23 8.96 $v = 9.10$ 13 14

8.96 V 4d 7.36

Plate AC 610 taken Dec. 19, 1899

v.m.s. $v < 12.9$

12.80 q.s.

Plate AC 517 taken Nov. 11, 1899

Only brightest stars on plate with a ne.

Plate AC 753 taken March 12, 1900

7.96 L 2V 8.16 8.30 $v = 8.23$ 07 07

8.30 V 3d 8.60

Plate AC 1414 taken April 26, 1901

v.m.s. $v < 12.6$

12.56 p.s.

Image slightly

Reduced April 19, 1915
R.F.M.

September 16, 1903

I Krasa Mayon's continued

Plate AC 2431 taken March 25, 1902

10.12 L 1V 10.22 10.30 $v = 10.26$ 04 04

10.30 V 3K 10.60

Plate AC 1434 taken May 3, 1901

v.m.s. $v < 12.5$

12.37 0 = 1 a.s.

Plate AC 2509 taken May 17, 1902

7.96 L 1V 8.06 8.30 $v = 8.18$ 12 12

8.30 V 3d 8.60

Plate AC 2416 taken March 15, 1902

11.02 L 2V 11.22 11.24 $v = 11.23$ 21 21

11.24 V 1m 11.34

Plate AC 2508 taken April 28, 1902

7.96 L 1V 8.06 8.20 $v = 8.13$ 07 07

8.20 V 4d 8.60

Plate AC 1164 taken Jan 20, 1901

9.36 L 2V 9.56 10.02 $v = 9.79$ 23 23

10.02 V 1L 10.12

Plate AC 2689 taken July 13, 1902

v.m.s. $v < 10.7$

10.60 K = 1 l.m.s.

Plate AC 15433 taken July 9, 1896

v.m.s. $v < 11.4$

11.34 m.s.

Plate AC 877 taken June 9, 1900

v.m.s. $v < 11.4$

11.34 m.s.

Redwood April 19, 1915
G.F.M.September 16, 1903
I Urseu Meyers cont.

Plate I 18415 taken Aug. 5, 1897

10.60 K 3 V ^{10.90} ^{10.92} taken Aug. V = 10.91 _{or}
10.92 v 11.02

Plate AC 2693 taken July 16, 1902

10.60 K 2 V 10.80 V = 10.80?

t cancelled by defect in plate

m. n.

Plate AC 815 taken April 30, 1900

too poor

Plate AC 1498 taken June 4, 1901

Defect in plate

Plate AC 586 taken Dec. 12, 1899

v m. s. v 9.5

9.36 g = .1

Plate AC 878 taken June 9, 1900

v m. s. l v 10.7

10.60 K = 1

Plate AC 75 taken October 25, 1898

too poor - corner of plate

Plate AC 2265 taken Feb. 3, 1902

v m. s. v 12.9

12.80 g = .1 m. s.

Plate I 18086 taken Aug. 4, 1897

9.13 v 0 f 9.13 8.80 8.96 V = 8.96 17 16 00

8.60 d 2 v 8.80

8.96 7 4 9 9.36

d too distinct for good comparison

Redwood April 19, 1915 59
G.F.M.September 16, 1903
I Urseu Meyers cont.

Plate AC 2694 taken July 16, 1902

10.60 K 1 V 10.70 10.72 V = 10.71 _{or} 01
10.72 v 3 l 11.02

Plate I 16120 taken Oct. 8, 1896

7.96 e 4 v 8.36 8.93 V = 8.64 28 29

8.93 v 2 f 9.13

Plate I 23787 taken Oct. 14, 1899

11.84 m v 11.94 12.07 V = 12.00 _{or} 07

12.07 v 30 12.37

Plate I 17537 taken March 12, 1897

13.19 s 3 v 13.29 13.76 V = 13.60 11 10

13.70 v 12 13.80

t cancelled by defect

Plate AC 2336 taken Feb. 5, 1902

v m. s. V = 13.3

13.19 s = .1

Plate AC 2932 taken Oct. 24, 1902

v m. s. V = 12.8

12.80 g = .15

Plate I 18367 taken July 30, 1897

10.12 L 1 V 10.22 10.40 V = 10.31 09 09

10.40 v 2 K 10.60

Plate I 16250 taken Oct. 22, 1896

9.13 v 0 f 9.13 8.86 V = 9.00 13 14

8.86 v 5 g 9.36

Image of d. not comparable
Plate AC 2562 taken May 20, 1902

8.38 e 3 v 8.68 8.40 V = 8.54 14 14

8.40 v 2 d 8.60

Received April 19, 1910
9.7. m.

September 17, 1903

T Ussac Majoris continued

Plate AC 1550 taken June 17, 1901

1 m.s. $v < 12.1$

0 m.s.

11.84 m.s.

Our object close to the position of the variable proved
by superposition not to be the variable

Plate AC 3151 taken Feb. 23, 1903

9.13 f 4 v 9.53 9.16 $v = 9.34$ 19 18

9.16 v 2 g 9.36

Plate AC 351 taken March 24, 1899

11.84 m 2 v 12.04 12.27 $v = 12.16$ 12 11

12.27 v 1 0 12.37

Comparison difficult, v and c on verge of invisibility
mainly in a line between g and m, a little nearer g,
is almost a grade brighter than m. Star image?

Plate AI 1302 taken Aug. 18, 1903

The form only brighter than m.

September 18, 1903

Estimate of brightness of T Centauri

Plate B 30475 taken Jan. 29, 1902

7.65 b 1 v 7.85 8.07 $\cdot 7.9 \frac{16}{16}$ 11

8.07 v 2 l 8.27

Plate B 30389 taken July 15, 1902

8.27 b 4 v 8.67 8.65 = 8.66 10 11

8.65 v 2 f 8.85

Plate B 29365 taken April 14, 1902

Reg. not on plate

Plate B 30388 taken July 15, 1902

Reg. not on plate

Plate 30395 taken July 15, 1902

Reg. not on plate

Plate B 29366 taken April 14, 1902

8.85 f 1 v 8.95 9.15 = 9.05 10 10

9.15 v 3 g 9.45

Plate B 29575 taken May 28, 1902

6.60 b 4 v 7.00 7.25 = 7.12 12 13

7.25 v 1 c 7.35

Plate 29240 taken April 1, 1902

8.85 f 2 v 9.05 9.25 = 9.15 10 10

9.25 v 2 g 9.45

Plate B 29511 taken April 29, 1902

6.60 b 3 v 6.90 7.15 = 7.02 12 13

7.15 v 2 c 7.35

Plate B 30293 taken July 7, 1902

Reg. not on plate

September 18, 1902
Humboldt continued

Plate B 31349 taken Feb. 20, 1903
Broken in Can - not sent
Plate B 30025 taken June 13, 1902
Reg. not on plate

Plate B 30159 taken June 25, 1902
827 V 0 L 8.27, 8.15, 8.55 - 8.32 05 17 23
7.65 d 5 V 8.15 8.55.
8.55 V 3 f 8.55

near edge
see note p. 70
Plate B 31351 taken Feb. 20, 1903
V 0 L 7.65, 7.45, 7.97 - 7.69 04 24 28
7.35 C 1 V 7.45 7.97
7.97 V 3 L 8.27

Plate B 29591 taken May 1, 1902
Reg. not on plate

Plate B 29178 taken March 19, 1902
Reg. not on plate

Plate B 30396 taken July 15, 1902
Reg. not on plate

Plate A.M. 1444 taken July 10, 1902
827 L 4 V 8.67 8.65 - 8.66 01 01
8.65 V 2 f 8.65

Plate A.M. 1501 taken Jan. 15, 1903
7.65 d 3 V 7.95 7.97 - 7.96 01 01
7.97 V 3 L 8.27

Plate A.M. 1468 taken July 14, 1902
7.65 d 5 V 8.15 8.17 - 8.16 01 01
8.17 V 1 L 8.27

September 18, 1902
Humboldt cont.

Plate A.M. 1207 taken April 26, 1902
Tracks - too poor

Plate A.M. 1815 taken Feb. 3, 1903
660 b 1 V 6.70 7.05 - 6.88 18 17
7.05 13 L 7.35

Plate A.M. 1464 taken Dec. 22, 1902
7.65 d 5 V 8.15, 8.17 - 8.16 01 01
8.17 V 1 L 8.27

Plate A.M. 1441 taken March 29, 1901
7.65 d 2 V 7.65, 8.07 - 7.96 11 11
8.07 V 2 L 8.27

Images very faint and poor

Plate A.M. 466 taken May 17, 1902
660 b 1 V 6.70, 7.15 - 6.92 22 28
7.15 13 C 7.35

Plate A.M. 1517 taken Feb. 5, 1903
660 b 2 V 6.80 7.25 - 7.12 22 23
7.25 V 1 C 7.35

Extreme edge of plate

Plate A.M. 1342 taken June 12, 1902
V 0 d 7.65, 7.55, 7.77 - 7.66 01 11 11
7.35 C 2 V 7.55

7.77 V 5 L 8.27

Plate A.M. 456 taken May 3, 1902
Class C - not taken

Plate A.M. 1181 taken April 5, 1901
8.85 V 2 L 9.05 - 8.95

September 13, 1903
 Centauri continued

Plate Am. 393 taken March 29, 1900

765 d 2v 785-787-786 01 01.

787 v 4L 827

Plate Am. 5 taken July 25, 1897

765 d 3v 795-797-796 01 01.

797 v 3L 827

Plate Am. 1506 taken Jan. 16, 1903

765 d 1v 775-787-786 06 06

787 v 4L 827

Plate Am. 1825 taken Feb. 20, 1903

660 d 2v 680 715-698 18 17.

715 v 2L 735-

Plate Am. 1497 taken Aug. 12, 1902

660 d 2v 680 715-698 18 17.

715 v 2L 735-

Plate Am. 1127 taken April 17, 1902

885 f 3v 915-935-925 10 10

935 v 1v 945

Plate Am. 1349 taken June 13, 1902

765 d 2v 785 787-786 01 01.

787 v 4L 827

Plate Am. 773 taken May 10, 1901

660 d 3v 690, 725-718 18 17

725 v 1L 735

Plate Am. 1078 taken April 3, 1902

885 f 3v 915

9 n 3.

See page 70
 for note

extreme
 edge of plate

September 13, 1903
 Centauri continued

Plate Am. 1511 taken Aug. 21, 1902

Region not on plate

Plate Am. 1335 taken June 11, 1902

765 d 2v 785, 777-781 04 04

777 v 5L 827

Plate Am. 1497 taken Aug. 12, 1902

660 d 2v 680, 705-692 18 18

705 v 3L 735-

Plate Am. 425 taken April 7, 1900

765 d 1v 775-777-776 01 01.

777 v 5L 827

Plate Am. 867 taken June 21, 1901

765 d 2v 785, 8797-791 06 06

897 v 3L 827

Plate Am. 408 taken April 4, 1900

765 d 2v 785-787-786 01 01

787 v 4L 827

Plate Am. 496 taken June 18, 1900

VOC 735-690, 767-731. 04. 41. 36.

660 d 3v 690

767 v 6L 827

Plate Am. 823 taken June 5, 1901

660 d 1v 670 705-7-688 18 17

705 v 3L 735-

Plate Am. 532x taken July 26, 1900

785 d 2v 785-787-786 01 01.

7887 v 4L 827

extreme
 edge of
 plate

extreme
 edge of
 plate

extreme
 edge of plate

Isophotom-
 eter

September 18, 1903

Centauri cont.

Plate AM 758 taken April 10, 1901

765-d 3 v 795-797 = 796 01 01

797 v 32 827

Camera plate

Plate AM 770 taken May 8, 1901

735-c 2 v 755-755 00 00

755 v 1 d 765

Plate AM 902 taken July 6, 1901

827-c 2 1847 855 = 852 05 04

845 v 3 f 885

Plate AM 731 taken June 6, 1901

660-b 1 v 670 715-692 22 23

715 v 2 c 735

Plate AM 763 taken April 24, 1901

rod 765-755-767 = 762 03 47 05

735-c 2 v 755

767 v 6 c 765

Plate AM 1218 taken April 29, 1902

660-b 2 v 680 715-698 18 17

715 v 2 c 735

Plate AM 1372 taken June 17, 1902

765-d 3 v 795-797 = 796 01 01

797 v 32 827

Plate AM 1421 taken July 3, 1902

827-c 2 v 847 865 = 866 09 09

865 v 2 f 885

Plate AM 1269 taken May 26, 1902

660-b 2 v 680, 715-698 12 17

715 v 2 c 735

September 18, 1903

Centauri continued

Plate AM 903 taken July 6, 1901

70 c 827 835, 845 = 836 09 01 09

765-d 7 v 835

845 v 4 f 885

Plate AM 968 taken Feb. 21, 1900

660-b 1 v 670, 705, 698 = 18 17

705 v 3 c 735

Plate AM 1230 taken May 1, 1902

660-b 3 v 690, 725, 708 18 17

725 v 1 c 735

Plate AM 448 taken May 2, 1900

Not a chart plate

Plate AM 1164 taken March 26, 1902

70 f 885-877, 915 = 892 07 15 23

827-c 5 v 877

915 v 32 945

Plate AM 901 taken July 6, 1901

827-c 1 v 837 855 = 846 09 09

855 v 3 f 885

Plate AM 1146 taken January 17, 1902

765-b 1 v 775-777 = 776 01 01

777 v 5 c 827

Plate AM 447 taken May 1, 1900

Not a chart plate

Plate AM 944 taken July 25, 1901

765-d 3 v 795, 797 = 796 01 01

897 v 32 827

Extreme
edge of
plate

September 13, 1903
 Centauri continued

Plate AM 1255 taken May 16, 1902

660 δ 1 V 6.70, 7.05 = 6.88 $\frac{18}{17}$

7.05 V 3 C 7.35

Plate A 5336 taken June 8, 1901

7.35 C 2 V 7.53, 7.53, 00 00.

7.53 V 1 δ 7.65

September 22, 1903

Re-examination of certain plates of Centauri

Plate B 25148 taken April 13, 1900

7.65 δ 1 V 7.75, 7.77 = 7.76 $\frac{01}{01}$

7.77 V 5 L 8.24

Extreme edge of plate Plate AM 823 taken June 5, 1901

660 δ 1 V 6.70, 6.95 = 6.82 $\frac{12}{13}$

6.95 V 4 C 7.35

Plate AM 1468 taken July 14, 1902

7.02 δ 2 V 8.24, 8.35, 8.35 = 8.32 $\frac{05}{03, 03}$

7.65 δ 1 V 8.35

8.35 V 5 f 8.85

Plate B 27324 taken May 17, 1901

660 δ (2) 6.60, 6.85 = 6.72 $\frac{12}{13}$

6.85 V 5 C 7.35

Extreme edge of plate

Obs. very doubtful. Images scarcely comparable that of a quite inseparable.

Extreme edge of plate

Plate B 30389 taken July 15, 1902

8.24 δ 5 V 8.77, 8.65 = 8.71 $\frac{06}{06}$

8.65 V 2 f 8.85

Images scarcely comparable

Extreme edge of plate

Plate B 25156 taken April 19, 1900

660 δ 2 V 6.80, 7.05 = 6.92 $\frac{12}{13}$

7.05 V 3 C 7.35

Extreme edge of plate

Plate B 27550 taken June 5, 1901

6.20 δ 4 V 6.60, 6.50 = 6.55 $\frac{05}{05}$

6.50 V 1 δ 6.60

This observation is extremely doubtful. V may be fainter than δ . Images hardly comparable

Sept. 23, 1903
16, 1903 - 2M, +16° 42' 90 cont.

I 25953, Oct. 19, 1900
p 2 v

v 1 q

I 29001, July 12, 1902
s 5 v

I 13541, Sept. 30, 1895
m 1 v

v 40

I 27754, Oct. 8, 1901
v m. s.

s = 3

I 30829, Sept. 8, 1903
m 2 v

v 30

I 16571, Nov. 17, 1896
v m. s.

g = 2

I 7028, Sept. 15, 1892
v m. s.

p = 1

I 7065, Sept. 17, 1892
v m. s.

b = 1

I 2085, Oct. 28, 1890
v m. s.

b = 2

I 25970, Oct. 30, 1900
2 1 v

v 43

A very fine plate
showing extremely
faint stars

Sept. 23, 1903
16, 1902 cont.

I 17670, March 25, 1897
a 5 v

v 0 b

v 2 c

I 25970, Oct. 20, 1900 re-examined.
Comp. star & too near magnitude of g which on
this plate it appears to equal. There appears to
be little if any difference in magn. of var. from
that in Plate I 25953

I 30245, March 20, 1903
m 1 v

v 20

I 30148, March 5, 1903
f 5 v

v 0 g

v 3 h

I 25932, Sept. 2, 1900 I 16501, Dec. 17, 1896
v m. s.

g = 1

I 16761, Dec. 14, 1896
v m. s.

n = 1

September 23, 1903

The variable 16,1802, DM +16° 4290, Ceracki 203817

Announced A.M. 160, 255.

References " 161, 91

PA 11, 50

9^m.3 Aug. 17, 1900 11^m Aug. 17, 1900October 22, 1903 Reduced April 23, 1916 ⁷⁵_{29.8 m.}

Estimates of the Brightness of V.S. Vrs. May:

Plate I 17711, April 11, 1897

12.44	p 3 v	12.74	13.02	v = 12.88	14
13.02	v 3 q	13.32			

(2) m.

Very faint

I 25342, May 12, 1900

13.43	r 2 v	13.63	13.62	v = 13.62	or --
13.62	v 3 d	13.92			

(3) m.

Extreme
edge. Image
very poor

I 22946, May 26, 1899

v 1 L 10.64 v = 10.54?

Image of L incomparable

I 28797, May 15, 1902

12.44	p 1 v	12.54	12.82	v = 12.68	14 14
12.82	v 5 q	13.32			

Extreme
edge. Very
faint

I 25314, May 10, 1900

13.43	r 3 v	13.73	13.72	v = 13.72	or --
13.72	r 2 d	13.92		13.5 m.	

I 16437, Nov. 2, 1896

12.44	p 2 v	12.64	12.92	v = 12.78	14 14
12.92	v 4 q	13.32			

I 16786, Dec. 14, 1896

10.64	L 4 v	11.04	10.90	v = 10.97	or 07
10.90	v 1 k	11.00			

October 22, 1903 Reduced April 23, 1915
877m.

S Urae Majoris continued

Plate I 17029, Jan. 10, 1897

10.20	h 1 v	10.30	10.54	$v = 10.42$	$\frac{12}{12}$	12
10.54	h 1	10.64				

I 16754, Dec. 13, 1896

10.64	h 5 v	11.14	11.00	11.10	$v = 11.08$	06	28	02
11.00	10 K	11.00						
11.10	v 3 m	11.40						

Extensive edge
of plate

I 25407, June 6, 1900

13.32	g 2 v	13.52	$v < 13.5$
-------	-------	-------	------------

I 20375, March 5, 1898

9.34	g 5 v	9.84	10.20	10.24	$v = 10.09$	$\frac{23}{23}$	11	15
10.20	10 K	10.20						
10.24	v 4 l	10.64						

Image of
h from

I 18316, July 7, 1897

10.64	h 4 v	11.04	11.00	11.20	$v = 11.08$	04	28	12
11.00	10 K	11.00						
11.20	v 2 m	11.40						

* $g = g'$ according
to a later design.See cover of
ref. plate I 17812

I 18204, June 11, 1897

13.43	h 3 v	13.73	13.82	$v = 13.78$	05	04
13.82	11 2	13.92				

B.M.

An object closely resembling a star wing
on between the two, and aPrismatic Companion!October 22, 1903 Reduced April 23, 1915 77
877m.

S Urae Majoris cont.

I 15624, Aug. 8, 1896

Does not cover region

I 16712, Dec. 7, 1896

10.64	h 3 v	10.94	10.90	$v = 10.92$	02	22
10.90	11 K	11.00				

I 18100, May 18, 1897

13.92	h 3 v	14.32	14.45	$v = 14.34$	12	11
14.45	11 l	14.55				

I 17536, March 12, 1897

10.64	h 4 v	11.04	11.00	11.20	$v = 11.08$	04	28	12
11.00	10 K	11.00						
11.20	v 2 m	11.40						

I 17395, Feb. 23, 1897

9.34	g 6 v	9.94	10.20	10.24	$v = 10.13$	17	07	11
10.20	10 K	10.20						
10.24	v 4 l	10.64						

I 18205, June 11, 1897

13.43	h 1 v	13.53	13.52	$v = 13.52$	01	00
13.52	v 4 s	13.92				

Extremely
faint

I 19686, Dec. 2, 1897

Too poor

* See note p. 76

Oct. 22, 1903 Reduced April 23, 1915
S Ursae Majoris Continued

I 16537, Nov. 14, 1896

11.60 *n* 1 *v* 11.70 12.06 $v = 11.88$ ϵ 18
 12.06 *r* 30 12.36

I 16251, Oct. 22, 1896

~~9.34~~
 13.32 *q* 3 *r* 13.62 $v = 13.62?$
n m.s.

I 15697, Aug. 17, 1896

12.44 *p* 1 *r* 12.54 12.82 $v = 12.68$ ϵ 14
 12.82 *r* 5 *q* 13.32

I 19733, Dec. 12, 1897

13.32 *q* 2 *v* 13.52 $v = 13.52?$
n m.s.

I 16751, Dec. 14, 1896

10.64 *l* 4 *v* 11.04 10.90 $v = 10.97$ ϵ 21
 10.90 *r* 1 *k* 11.00

I 19555, Nov. 9, 1897

12.44 *p* 2 *r* 12.74 12.12 $v = 12.93$ ϵ 19
 13.12 *r* 2 *q* 13.32

I 20190, Feb. 6, 1898

10.64 *l* 4 *v* 11.04 10.90 $v = 10.97$ ϵ 21
 10.90 *r* 1 *k* 11.00

October 22, 1903 Reduced April 23, 1915
S Ursae Majoris Continued

AC 333, Aug. 26, 1899

9.34 *q* 3 *r* 9.64 9.80 $v = 9.72$ ϵ 28
 9.80 *r* 4 *k* 10.20

AC 2915, Oct. 20, 1902

12.44 *p* 2 *k* $v < 12.6$

AC 215, Feb. 22, 1899

12.36 *o* 1 *k* $v < 12.5$

AC 291, April 19, 1899

11.00 *k* 1 *k* $v < 11.1$

AC 730, Feb. 20, 1900

9.02 *f* 2 *r* 9.22 9.24 $v = 9.22$ ϵ 21
 9.24 *r* 1 *q* 9.34

AC 2821, Sept. 8, 1902

10.20 *l* 2 *v* 10.40 10.54 $v = 10.47$ ϵ 27
 10.54 *r* 1 *k* 10.64

AC 909, July 23, 1900

9.34 *q* 3 *k* $v < 9.6$

AC 1159, Jan. 18, 1901

13.43 *r* 1 *k* $v < 13.5$

AC 1243, Feb. 11, 1901

11.00 *k* 1 *k* $v < 11.1$

Reduced April 26, 1915³
8⁴⁵ P.M.Oct. 22, 1902³
S Uran Majoris Cont.AC 1425, Apr. 25, 1901
To p.m.

AC 1419, April 27, 1901

9.34 ~~74~~ 9.74 9.90 $v = 9.82$ $\frac{0.8}{0.8}$ 0.8
9.90 ~~V3K~~ 10.20AC 1607, July 13, 1901
10.20 ~~h 2H~~ $v < 10.4$ AC 1743, Sept. 14, 1901
10.20 ~~h 1H~~ $v < 10.3$

AC 2301, Feb. 8, 1902

11.00 ~~K 2V~~ 11.20 11.30 $v = 11.25$ $\frac{0.5}{0.5}$ 0.5
11.30 ~~V 10m~~ 11.40AC 1137, Jan. 4, 1901
12.44 ~~f 1H~~ $v < 12.5$ AC 1123, Jan. 2, 1901
13.32 ~~g 2H~~ $v < 13.5$ AC 859, May 20, 1900
11.40 ~~m 2N~~ $v < 11.6$ AC 850, May 7, 1900
13.32 ~~g 1H~~ $v < 13.4$

* See note p. 76

Oct. 22, 1903

Reduced April 26, 1915⁸¹
8⁴⁵ P.M.

S Uran Majoris Cont.

AC 500, April 6, 1900

11.60 ~~n 2V~~ 11.80 12.26 $v = 12.03$ $\frac{0.3}{0.3}$ 0.3
12.26 ~~V 10~~ 12.36

Extremely faint - Comparison difficult

AC 558, Nov. 25, 1899

11.60 ~~n 3V~~ 11.90 12.26 $v = 12.08$ $\frac{1.8}{1.8}$ 1.8
12.26 ~~V 10~~ 12.36

AC 1175, Jan. 25, 1901

9.02 ~~f 1H~~ $v < 9.1$ Isoschromatic
Spectrum plate

AC 1196, Feb. 1, 1901

12.44 ~~p 6V~~ 13.04 13.32 $v = 13.18$ $\frac{1.4}{1.4}$ 1.4
13.32 ~~V 09~~ 13.32
~~h m 3.~~

AC 1555, June 18, 1901

10.64 ~~h 3V~~ 10.94 10.80 $v = 10.87$ $\frac{0.7}{0.7}$ 0.7
10.80 ~~V 2K~~ 11.00

AC 2646, June 26, 1902

10.20 ~~h 1H~~ $v < 10.3$

Extreme edge

AC 2020, Sept. 7, 1902

10.64 ~~h 1V~~ 10.74 10.70 $v = 10.72$ $\frac{0.2}{0.2}$ 0.2
10.70 ~~V 3K~~ 11.00

Extreme edge

AC 2063, Dec. 6, 1901

9.34 ~~74~~ 9.74 10.00 $v = 9.87$ $\frac{1.3}{0.8}$ 1.3
10.00 ~~V 2H~~ 10.20

October 22, 1903 Reduced April 26, 1915
8.7m.

S'Wear Majors Continued

AC 1669, Aug. 21, 1901
9.34 $\frac{1}{2}$ 2N $v < 9.5$ AC 1557, June 19, 1901
10.64 L 3V 10.94 10.90 $v = 10.92$ 02 02
10.90 V 1K 11.00AC 2515, May 1, 1902
11.60 m 2N $v < 11.8$ AC 2457, April 3, 1902
Too poorAC 2237, Jan. 24, 1902
10.64 L 1V 10.74 10.70 $v = 10.72$ 02 02
10.70 V 3K 11.00AC 1562, June 24, 1901
11.00 K 1N $v < 11.1$ Extreme edge.
Images very
faintAC 1520, June 10, 1901
10.20 L 3V 10.50 10.64 10.70 $v = 10.61$ 02 02
10.64 V 0L 10.64
10.70 V 3K 11.00AC 278, April 10, 1899
9.34 $\frac{1}{2}$ 3N 9.64 $v < 9.6$ AC 241, March 12, 1899
12.44 p 1N $v < 12.5$

* See note p. 76

October 22, 1903 Reduced April 26, 1915
8.7m.

S'Wear Majors Continued

AC 2446, March 31, 1902
12.36 0 1N $v < 12.5$ AC 2600, July 11, 1902 Extreme edge
9.34 $\frac{1}{2}$ 4V 9.74 10.00 $v = 9.87$ 13 13
10.00 V 2L 10.30AC 1410, April 13, 1901 Extreme edge
10.20 L 1V 10.30 10.34 $v = 10.32$ 02 02
10.34 V 3L 10.64AC 1228, Feb. 8, 1900
12.44 p 1N $v < 12.5$ AC 1354, March 18, 1901
Too poorAC 5581, Dec. 9, 1899 Extreme edge
11.00 K 1N $v < 11.1$ AC 206, Feb. 15, 1899
12.44 p 1N $v < 12.5$ AC 2429, June 17, 1902
10.64 L 1V 10.74 10.70 $v = 10.72$ 02 02
10.70 V 3K 11.00AC 2484, April 17, 1902
11.40 m 1N $v < 11.5$

October 22, 1903
 S Ursae Majoris cont.
 Reduced April 26, 1915
 8.7.5m.

AC 2116, Dec. 27, 1901

9.34 ^{*}g 4^r 9.74 9.90 $v = 9.82$ 0.8 0.8
 9.90 ^r3h 10.20

AC 2140, Jan. 1, 1902

9.34 ^r5^r 9.84 10.00 $v = 9.92$ 0.8 0.8
 10.00 ^r2h 10.20

AC 259, Mar. 24, 1899

11.40 ^m1^N $v < 11.5$

AC 2611, June 6, 1902

10.64 ^l3^r 10.94 10.90 $v = 10.92$ 0.2 0.2
 10.90 ^r1k 11.00

AC 1991, Nov. 20, 1901

10.20 ^l2^r 10.40 10.54 $v = 10.47$ 0.7 0.7
 10.54 ^r1h 10.64

AC 1350, March 27, 1901

10.64 ^l2^r 10.84 10.80 $v = 10.82$ 0.2 0.2
 10.80 ^r2k 11.00

AC 2259, Jan. 13, 1902

10.64 ^l2^r 10.84 10.90 $v = 10.87$ 0.3 0.3
 10.90 ^r1k 11.00

AC 1241, Feb. 11, 1901
 Reg. not on plate

* See note p. 96

October 22, 1903
 S Ursae Majoris cont.
 Reduced April 26, 1915
 8.7.5m.

I 25551, July 13, 1900

12.44 ^p1^r 12.54 12.82 $v = 12.68$ 1.4 1.4
 12.82 ^r5^r 13.32

AI 110, Feb. 6, 1901

10.20 ^l1^N $v < 10.3$

AC 1241, Feb. 11, 1901

A 497, April 2, 1894

12.36 ^o1^N $v < 12.5$

A 1459, June 7, 1895

Reg. not on plate

A 1560, Aug. 14, 1895

Reg. not on plate

A 498, April 2, 1894

Spectrum plate

A 1540 does not seem again

A 1406, May 1, 1895

10.64 ^l4^r 11.04 11.00 11.20 $v = 10.08$ 0.4 0.8 1.2

11.00 ^r0k 11.00

11.20 ^r3m 11.40

A 1305, Feb. 22, 1895

10.20 ^l1^r 10.30 10.24 $v = 10.27$ 0.3 0.3

10.24 ^r4h 10.64

Edge of plate. Image of L scarcely comparable

October 22, 1903 Redund April 26, 1905
84.7.7m.

S. Wane Majors Cont.

AC 463, March 27, 1894

13.32 $q1K$ 13.42 $v < 13.4$

AC 1539 does not correspond

AC 1414, April 26, 1901

9.34 $q5r$ 9.84 10.00 $v = 9.92$ os or
10.00 $r2k$ 10.20

AC 2689 July 13, 1902

9.34 $q4r$ 9.74 9.90 $v = 9.82$ os or
9.90 $r3k$ 10.20

AC 1434, May 3, 1901

9.34 $q5r$ 9.84 10.00 $v = 9.92$ os or
10.00 $r2k$ 10.20

AC 2416, March 15, 1902

12.44 $p4r$ 12.84 12.22 $v = 12.03$ or or
12.22 $r1q$ 12.32

AC 2559, May 17, 1902

11.60 $n4r$ 12.00 12.26 $v = 12.13$ or or
12.26 $r1o$ 12.36

AC 2431, March 25, 1902

11.40 $m1K$ $v < 11.5$

AC 753, March 12, 1900

9.34 $q6r$ 9.94 10.20 10.24 $v = 10.13$ or or
10.20 $r0k$ 10.20
10.24 $r4k$ 10.64

* See note p. 76.

extremely
faint. Large
font

extremely faint

October 22, 1903 Redund April 26, 1905
84.7.7m.

S. Wane Majors Cont.

AC 577, Nov. 10, 1899

9.34 $q1K$ $v < 9.4$

AC 619, Dec. 19, 1897

10.64 $l4r$ 11.04 10.90 $v = 10.97$ or or
10.90 $r1k$ 11.00

Doubtful - image faint and poor

AC 1111, Dec. 29, 1900

12.32 $q1K$ $v < 13.4$

AC 319, May 11, 1897

10.64 $l3r$ 10.94 10.90 $v = 10.92$ or or
10.90 $r1K$ 11.00

* AC 786, March 16, 1900

10.64 $l1r$ 10.74 $v = 10.74?$
 $K n_2$

AC 1372, March 23, 1901

10.20 $h2r$ 10.40 10.54 $v = 10.47$ or or
10.54 $r1k$ 10.64

AC 2534, May 9, 1902

13.32 $q1K$ $v < 13.4$

AC 2412, March 14, 1902 does not correspond

* assumed to be
AC 146, as 776
does not cover
AC 776 agrees in
date and magn.

October 23, 1903 Reduced April 26, 1915
25.7.7m.

S Ursae Majoris, continued

May 27
I 15179, July 9, 1896
9.34 * 9.4 v 9.14 9.90 $v = 9.82$ ± 0.8
9.90 v 3 h 10.20 ± 0.8

I 15433, July 9, 1896
Var. ff edge

I 15309, June 18, 1896
9.02 f 2 v 9.22 9.34 9.60 $v = 9.39$ ± 0.2
9.34 v 0 g * 9.34
9.60 v 6 h 10.20
 ± 0.8

I 15777, May 27, 1896
9.34 * 9.5 v 9.84 10.00 $v = 9.92$ ± 0.8
10.00 v 2 h 10.20
 ± 0.8

I 17293, Feb. 9, 1897
9.34 * 9.5 v 9.84 10.00 $v = 9.92$ ± 0.8
10.00 v 2 h 10.20

I 18414, Aug. 5, 1897
9.34 * 9.6 v 9.94 10.20 10.34 $v = 10.16$ ± 0.4
10.20 v 0 h 10.20
10.34 v 3 h 10.64

I 18086, May 11, 1897
13.43 v 4 v 13.83 $v = 13.83?$
a n.s.

* See note p. 16

Oct. 23, 1903 Reduced April 26, 1915 89
25.7.7m.

S Ursae Majoris, continued

I 16120, Oct. 8, 1896
13.43 v 3 v 13.73 $v = 13.73?$
a n.s.

(+) n.s.
I 18367, July 30, 1897
10.20 h 1 v 10.30 10.44 $v = 10.37$ ± 0.1
10.44 v 2 h 10.64

(+) n.s.
I 18415, Aug. 5, 1897
9.34 * 9.7 v 10.04 10.20 10.34 $v = 10.19$ ± 0.15
10.20 v 0 h 10.20
10.34 v 3 h 10.64

(+) n.s.
I 20412, March 8, 1898
Reg. not on plate

I 16793, Dec. 14, 1896
10.64 h 3 v 10.94 10.90 $v = 10.92$ ± 0.2
10.90 v 1 h 11.00

There is a star image, not
prismatic companion; near v, not
free from brightness of g, what? g 3(?)
Record book says that this plate was exposed
for a few seconds to region of I 16795.
(?) 4 h

I 16544, Nov. 14, 1896
11.60 n 4 v 12.00 12.16 $v = 12.08$ ± 0.8
12.16 v 2 v 12.36
note on p. 10

* See note p. 16

October 23, 1903 Reduced April 26, 1915
 S. H. M. J. M. J. M.

I 25159, Dec. 30, 1901

9.34 * 9.4 v 9.14 10.00 v = 9.81 13 13
 10.00 v 10.20

no trace of (2)

I 20375, March 5, 1898

9.34 * 9.6 v 9.94 10.10 v = 10.02 0.5 0.5
 10.10 v 10.20

no trace of (2)

Extreme edge
 of plate

I 25818, May 20, 1902

11.40 m 1 v 11.50 11.30 v = 11.40 10 12
 11.30 v 3 m 11.60

no trace of (2)

Edge of plate
 Image of K.
 not comparable

I 25848, May 31, 1902

10.64 L 4 v 11.04 11.30 v = 11.17 13 13
 11.30 v 1 m 11.40

(2) m.

Extremely
 faint

I 23787, Oct. 14, 1899

12.44 p 4 v 12.84 13.22 v = 13.03 19 19
 13.22 v 1 q 13.32

(2) m.

I 23780, Oct. 13, 1899

12.36 o 1 v 12.5

Extreme edge
 Image very
 different in
 form.

I 23176, July 15, 1899

9.34 * 9.3 v 9.64 9.80 v = 9.72 0.5 0.5
 9.80 v 4 k 10.20

no trace

* See note of 76

October 23, 1903 Reduced April 26, 1915
 S. H. M. J. M. J. M.

S. H. M. J. M. J. M.

I 22927, May 25, 1899

10.20 L 3 v 10.50 v = 10.50?

Extreme edge of plate. L, K, m off edge
 focus of var. poor

Faintly off near pro. of (2) do not coincide

I 17537, March 12, 1897

11.00 K 1 v 11.10 11.20 v = 11.15 0.5 0.5
 11.20 v 2 m 11.40

Image of v not easily comparable. (2) m.

I 16250, Oct. 22, 1896

13.43 L 1 v 13.5

Var. on edge of invisibility (2) m.

I 17346, Feb. 16, 1897

9.34 * 9.6 v 9.94 10.10 v = 10.02 0.5 0.5
 10.10 v 1 k 10.20

Extremely faint

(2) m.

I 15278, unless

I 15300, June 18, 1896

9.34 * 9.2 v 9.54 9.80 v = 9.67 13 13
 9.80 v 4 k 10.20

Do not get at same dist from a as (2) do not coincide

I 15357, July 19, 1896

9.34 * 9.2 v 9.54 9.80 v = 9.67 13 13
 9.80 v 4 k 10.20

(2) m.

I 15522

11.00 K 1 v 11.10 11.30 v = 11.10 0.5 0.5

11.10 v 3 m 11.40

(2) m.

Oct. 23, 1903 Reduced April 27, 1915
 S Ursae Majoris continued 9.4 m.

I 15476, July 17, 1896

10.64 $\ell 2 v$ 10.84 10.80 $v = 10.82$ 0.2 0.2
 10.80 $v 2 h$ 11.00 (2) ms.

I 15992, Sept. 23, 1896

13.92 $s 2 h$ $v < 14.1$ (2) ms.

I 15356, June 23, 1896

9.34 $g 2 v$ 9.54 9.80 $v = 9.67$ 13 13
 9.80 $v 4 h$ 10.20 (2) ms.

I 29946, Feb. 5, 1903

Does not come up.

Pos plate

AC 1524, June 11, 1901

9.34 $g 5 v$ 9.84 $v = 9.84?$
 hms.

AC 3737, June 27, 1903

12.44 $p 2 h$ 12.74 $v < 12.7$

AC 3900, Sept. 7, 1903

9.34 $g 6 v$ 9.94 10.10 $v = 10.02$ 0.8 0.8
 10.10 $v 1 h$ 10.20 (2) ms.

AC 3680, May 25, 1903

12.44 $p 2 h$ $v < 12.6$ (2) ms.

AC 3417, March 12, 1903

8.36 $c 2 h$ $v < 8.6$

* See note p. 76

October 23, 1903 Reduced April 27, 1915
 S Ursae Majoris continued 9.4 m.

AC 1444, May 6, 1901

9.34 $g 2 v$ 9.54 9.80 $v = 9.67$ 12 12
 9.80 $v 4 h$ 10.20 (2) ms.

AC 3317, Feb. 18, 1903

9.34 $g 6 v$ 9.94 10.10 $v = 10.02$ 0.8 0.8
 10.10 $v 1 h$ 10.20

AC 3466, March 31, 1903

10.20 $\ell 1 v$ 10.30 10.70 $v = 10.50$ 2.0 2.0
 10.70 $v 3 h$ 11.00 (2) ms.

AC 2566, May 20, 1903

11.40 $m 1 h$ $v < 11.5$

AC 2508, April 20, 1902

12.44 $p 2 h$ $v < 12.6$

AC 3476, April 3, 1903

Pos plate

AC 2293, July 16, 1902

9.34 $g 5 v$ 9.84 10.00 $v = 9.92$ 0.8 0.8
 10.00 $v 2 h$ 10.20 (2) ms.

AC 1457, March 12, 1901

9.34 $g 4 v$ 9.74 9.90 $v = 9.82$ 0.8 0.8
 9.90 $v 3 h$ 10.20 (2) ms.

AC 3500, April 12, 1903

10.20 $\ell 4 v$ 10.60 10.64 10.70 $v = 10.65$ 0.5 0.5
 10.64 $v 0 h$ 10.64

10.70 $v 3 h$ 11.00

(2) ms.

* See note p. 76

October 23, 1903 Reduced April 27, 1915
G.F.M.

S Ursae Majoris continued

AC 2694, July 16, 1902

9.34 ⁺9.5V 9.84 10.00 $v = 9.92$ α σ σ σ
10.00 v $2h$ 10.20 (2) us.

AC 2932, Oct. 24, 1902

12.44 p $1K$ (2) us. $v < 12.5$

AC 1450, May 8, 1901

9.34 ⁺9.1V 9.44 9.60 $v = 9.52$ α σ σ σ
9.60 v $6K$ 10.20 (2) us.

Imaginary
from

* Assumed to be
AC 3523, as 2533 does
not come, and 3533
agrees in date, magn.
and color.

AC 3523, April 19, 1903 Loochenwatie

10.64 L $2V$ 10.84 10.90 $v = 10.87$ α σ σ σ
10.90 V $1K$ 11.00 (3) us.

AC 261, March 24, 1899

12.36 0 $1K$ $v < 12.5$ (3) us.

AC 1341, March 14, 1901

10.64 L $2V$ 10.84 10.80 $v = 10.82$ α σ σ σ
10.80 v $2K$ 11.00 (3) us.

AC 1485, May 23, 1901

9.34 ⁺9.5V 9.84 10.70 $v = 10.87$ α σ σ σ
10.70 v $3K$ 11.00 (3) us.

AC 2265, Feb 12, 1902

10.64 L $4V$ 11.04 11.00 11.20 $v = 11.08$ α σ σ σ
11.00 v $0K$ 11.00
11.20 v $2m$ 11.40 (3) us.

* See note d.76

(3) us.

October 23, 1903 Reduced April 27, 1915-95
G.F.M.

S Ursae Majoris continued

AC 1598 July 10, 1901

10.20 L $2V$ $v < 10.4$ (2) us.

AC 1211, Feb. 6, 1901

Tropon

AC 726, Feb. 19, 1900

9.02 f $3V$ 9.32 9.34 9.50 $v = 9.39$ α σ σ σ
9.34 rog ⁺9.34
9.50 v $7K$ 10.20 (2) us.

AC 1387, March 30, 1901

10.64 L $1V$ 10.74 10.70 $v = 10.72$ α σ σ σ
10.70 v $3K$ 11.00 (3) us.

AC 1561, June 21, 1901

10.64 L $3V$ 10.94 10.90 $v = 10.92$ α σ σ σ
10.90 V $1K$ 11.00 (2) us.

AC 3542, April 24, 1903

11.40 m $2V$ 11.60 11.30 $v = 11.45$ α σ σ σ
11.30 v $3m$ 11.60 (3) us.

AC 3610, May 10, 1903

10.64 L $2K$ $v < 10.8$

An object near a does not seem to be in pos. of (3)

AC 1559, June 17, 1901

10.64 L $3V$ 10.94 10.90 $v = 10.92$ α σ σ σ
10.90 v $1K$ 11.00 (2) us.

AC 2336, Feb 15, 1902

11.40 m $5V$ 11.90 11.60 12.06 $v = 11.85$ α σ σ σ
11.60 v $0m$ 11.60
12.06 v 3.0 12.36 (3) us.

*

See note d.76

(3) us.

October 23, 1903 Reduced April 27, 1915
S Uran Maj. continued 9.7.11.

AC 3640, May 17, 1903

10.64 *L* 1 *N* $v < 10.7$

(?) no.

AC 2475, April 15, 1902

12.44 *P* 1 *N* $v < 13.5$ (?) no.

AC 3351, Feb. 23, 1903

9.34 * 9.5 *V* 9.84 10.00 $v = 9.92$ 0.8 0.8
10.00 *V* 2 *L* 10.20 (?) seen?

Very from
magn. near
edge

AC 2099, Dec. 21, 1901

9.34 * 9.5 *V* 9.84 10.10 $v = 9.97$ 1.3 1.3
10.10 *V* 1 *L* 10.20 (?) no.

AC 3734, June 26, 1903

11.00 *K* 2 *N* $v < 11.2$ (?) no.

Cruc. of plate

AC 875, June 9, 1900

11.00 *K* 1 *N* $v < 11.2$ (?) no.

Doubtful.

AC 3561, April 22, 1902

11.40 *m* 2 *V* 11.60 11.50 $v = 11.55$ 0.0 0.0
11.50 *V* 1 *m* 11.60 (?) no.

Cruc. of plate,
Images extremely
faint

AC 515, April 13, 1900

Too poor

AC 3717, June 4, 1903

Too poor

AC 586, Dec. 12, 1899

10.20 *L* 2 *N* $v < 10.4$

* See note p. 76

1832

October 23, 1903 Reduced April 27, 1915 97
S Uran Majors cont. 9.7.11.

AC 3486, April 10, 1903

10.20 *L* 2 *V* 10.40 10.54 $v = 10.47$ 0.7 0.7
10.54 *V* 1 *L* 10.64 (?) no.

Cruc. of
plate. Images
very poor

AC 75, Oct. 25, 1898

Too poor in Region of Var.

AC 3832, Aug. 15, 1903

9.34 * 9.1 *N* $v < 9.4$ (?) no.

AC 3700, May 30, 1903

11.60 *m* 3 *V* 11.90 $v = 11.90$?
0 no. (?) no.

AC 3501, April 12, 1903

11.64 *L* 2 *V* 10.84 10.90 $v = 10.87$ 0.3 0.3
10.90 *V* 1 *L* 11.00 (?) no.

Cruc. of plate. Images very faint and from Ob. double

AC 3474, April 1, 1903

10.20 *L* 1 *V* 10.30 10.54 $v = 10.42$ 1.3 1.3
10.54 *V* 1 *L* 10.64 (?) no.

Cruc. of plate. Obs. doubtful

AC 2799, Aug. 31, 1902

9.34 * 9.1 *N* $v < 9.4$ (?) no.

AC 3656, May 20, 1903

9.34 * 9.2 *N* $v < 9.5$

(?) no.

* See note p. 76

Oct. For 23, 1903 Reduced April 27, 1915
S. 7. m.
S. Uranus Majoris Cent.

Comes of plate
Image very poor

AC 3872, Sept. 1, 1903

9.34 * 9.4 v 9.74 v = 9.74?
h m s.

(1) ms.

AC 3454, March 28, 1903

Too poor in Region of latitude

Comes of plate
Image poor

AC 3309, Feb. 17, 1903

9.34 * 9.6 v 9.94 10.20 10.34 v = 10.16 25 07 18
10.20 v o h 10.20

10.34 v 3.2 10.64 (2) ms.

AC 2726, Aug. 7, 1902

9.34 * 9.3 v 9.64 9.80 v = 9.72 08 08
9.80 v 4 h 10.20 (1) ms.

Comes of plate
Too poor, Image
very faint

AC 3050 Aug. 24, 1903

11.40 m 1 v 11.50 v = 11.50?
0 m s. (1) ms.

AC 3444, March 19, 1903

9.34 * 9.4 v 9.74 10.00 v = 9.87 13 13
10.00 v 2 h 10.20 (2) ms.

Comes of plate

AC 2661, July 2, 1902

9.34 * 9.6 v 9.94 10.10 v = 10.02 08 08
10.10 v 1 h 10.20 (2) ms.

AC 2564, May 18, 1902

11.60 m 1 v 11.70 v = 11.70?
0 m s. (1) ms.

* AC 3198, May 8, 1903

10.20 h 2 h 10.40 v < 10.4 (1) ms.

AC 3438, March 14, 1903

9.34 * 9.4 v 9.74 10.00 v = 9.87 12 12
10.00 v 2 h 10.20

* Assumed to be
AC 3598, as 3398 does
not come, and 3598
agrees in date and magn.

* See note p. 76.

Oct. 23, 1903 Reduced April 27, 1915
S. 7. m.
S. Uranus Majoris Cent.

AC 2558 May 17, 1902

11.60 m 1 h v < 11.7 (1) ms.

AC 1698, Aug. 30, 1901

10.20 h 2 h v < 10.4 (1) ms.

Comes
of plate

AC 2248, Jan. 25, 1902

10.20 h 1 v 10.30 v = 10.30?

Image of C too poor to compare (1) ms.

Image of
plate

AC 3436, March 14, 1903

9.34 * 9.5 v 9.84 10.10 v = 9.97 13 13
10.10 v 1 h 10.20 (1) ms.

AC 1676, Aug. 23, 1901

Too poor

Comes of
plate

AC 1515, June 8, 1901

10.20 h 1 v 10.30 10.44 v = 10.37 07 07
10.44 v 2 h 10.64

AC 1918, Oct. 20, 1901

Too poor

Comes
of plate

AC 2247, Jan. 25, 1902

9.34 * 9.6 v 9.94 10.20 10.44 v = 10.19 25 01 25
10.20 v o h 10.20

10.44 v 2 h 10.64 (1) ms.

AC 1495, June 3, 1901

9.34 * 9.6 v 9.94 10.10 v = 10.02 08 08
10.10 v 1 h 10.20 (1) ms.

AC 2121, Dec. 30, 1901

9.34 * 9.5 v 9.84 10.00 v = 9.92 08 08 (1) ms.
10.00 v 2 h 10.20

* See note p. 76.

October 23, 1903 Reduced April 27, 1915
S. V. M. M. J. Cont.

Corner of plate

AC 1939, Nov. 2, 1901
10.20 L 2 N $v < 10.4$ *Don't*

AC 1435, May 4, 1901

9.34 * 9.2 v 9.54 9.80 $v = 9.64$ $\frac{12}{-9}$ $\frac{13}{-8}$
9.80 v 4 h 10.20 *Don't*

AC 1164, Jan. 20, 1901

12.44 p 1 N $v < 12.5$ *Don't*

AC 3691, May 27, 1903

10.20 h 2 N $v < 10.4$ *Don't*

AC 3367, Feb. 26, 1903

9.34 * 9.3 v 9.64 9.80 $v = 9.72$ $\frac{08}{-8}$ $\frac{08}{-8}$
9.80 v 4 h 10.20 *Don't*

AC 2681, July 11, 1902

9.34 * 9.4 v 9.74 10.00 $v = 9.87$ $\frac{13}{-8}$ $\frac{13}{-8}$
10.00 v 2 h 10.20 *Don't*

AC 3681, May 25, 1903

11.60 m 1 N $v < 11.7$ *Don't*

AC 3588, May 2, 1903

11.40 m 1 N $v < 11.5$ *Don't*

AC 2666, July 4, 1902

9.34 * 9.5 v 9.84 $v = 9.84$?

h concealed by defect in plate *Don't*

Edge of plate

* See note p. 76

October 23, 1903 Reduced April 27, 1915
S. V. M. M. J. Cont.

AC 2574, May 22, 1902

10.64 L 2 v 10.84 $v = 10.84$?

K 1 N 3.

Obs. very doubtful. Edge of plate. Images from

AC 293, April 21, 1899

11.00 K 1 N $v < 11.1$

AC 3555, April 27, 1902

11.00 K 1 N $v < 11.1$

AC 2497, April 19, 1902

10.64 L 2 v $v < 10.84$

AC 3383, March 31, 1902

11.60 m 1 N $v < 11.7$

AC 2266, Feb. 3, 1902

10.20 L 3 N $v < 10.5$

AC 3500, April 17, 1902

10.20 L 2 v $v < 10.5$

AC 2207, Jan. 17, 1902

10.20 L 1 v 10.30 10.44 $v = 10.37$ $\frac{07}{-7}$ $\frac{07}{-7}$

10.44 v 2 h 10.64

AC 1604, July 13, 1901

11.00 K 1 N $v < 11.1$

October 23, 1903 Reduced April 27, 1915
S Ursae Majoris, Continued _{8.7 m.}

Edge of plate AC 1534, June 13, 1901
 9.34 * 9.1 v 9.44 10.44 v = 9.94 _{32 00}
 10.44 r 2 l 10.64

" " " AC 1248, Feb. 11, 1901
 12.44 p 3 v 12.74 v = 12.74 ₅
 g m s.

Edge of plate AC 3537, April 24, 1902
 Image from
 Ets. doubtful
 11.40 m a v 11.60 11.50 v = 11.55 _{05 05}
 11.50 r 1 n 11.60

Edge of plate AC 1440, May 5, 1901
 9.34 * 9.2 v 9.54 9.70 v = 9.62 _{05 05}
 9.70 v 5 h 10.20

" " " AC 1331, March 27, 1901
 Too poor in reg. of var. Film imperfect

" " " AC 1329, Feb. 5, 1901
 12.44 p 1 N v = 12.5

AC 3517, April 17, 1902
 Too near edge

AC 1090, Dec. 24, 1900
 Tracks

AC 132, Dec. 15, 1898
 Fogged in reg. of variable

* See note p. 76

October 23, 1903 Reduced April 27, 1915
S Ursae Majoris, Continued _{8.7 m.}

Inner of plate AC 3156, July 6, 1903
 10.64 l 1 N v < 10.7

AC 877, June 9, 1900
 11.00 K 1 N v < 11.1

AC 3493, April 11, 1903
 10.64 l 1 N v < 10.7

AC 846, May 5, 1900
 Does not cover reg.

AC 1495 Does not cover region

AC 3424, March 13, 1903
 Too poor

AC 3334, Feb. 24, 1903
 Too near edge of plate

Edge AC 1465 May 15, 1901
 9.74 * 9.34 * 9.7 v 10.04 10.10 v = 10.07 _{03 03}
 K 1 10.10 v 1 h 10.20

Edge of plate AC 3720, June 13, 1903
 10.64 l 1 N v < 10.7

AC 2540, May 11, 1902
 Too poor in region of variable

* See note p. 76

October 23, 1903 Reduced April 27, 1915
8.7.7m.

S Urae Majoris Continued

AC 2297, Feb. 7, 1902
Too poor in reg. of Var.

AC 3474, April 1, 1903

10.20 $k 2v$ 10.40 10.54 $v = 10.47$ $\sigma 7$ $\sigma 7$ 10.54 $v 1k$ 10.64AC 3758, July 7, 1903
10.64 $L 1N$ $v < 10.7$ AC 1403, April 12, 1901
Trails - Not availableAC 3706, May 31, 1903
12.44 $p 2K$ $v < 12.6$

AC 3403, March 6, 1903

9.34 $g 2v$ 9.54 9.70 $v = 9.62$ $\sigma 8$ $\sigma 8$ 9.70 $v 5k$ 10.20

Extreme edge

AC 1087, Dec. 22, 1900

11.00 $k 1K$ $v < 11.1$ AC 171, Jan 23, 1899
9.34 $g 2N$ $v < 9.5$

AC 2657, July 1, 1902

9.34 $g 4n$ $v \rightarrow 9.74?$ $v < 9.7$

AC 2358, March 6, 1902

10.64 $L 1K$ $v < 10.7$ n probably
intended for N
Assume $26.34N$
Apr. 23, 1905

* See note p. 76

October 23, 1903 Reduced April 27, 1915
8.7.7m.

S Urae Majoris Continued

Extreme edge

AC 2190, Jan. 15, 1902

9.34 $g 6v$ 9.94 10.10 $v = 10.02$ $\sigma 8$ $\sigma 8$ 10.10 $v 1k$ 10.20

Extreme edge

AC 1503, June 5, 1901

Drooping reg

10.20 $k 2v$ 10.40 10.54 $v = 10.47$ $\sigma 7$ $\sigma 7$

from faint

10.54 $v 1k$ 10.64

Extreme edge

AC 3353, March 1, 1903

9.34 $g 3v$ 9.64 9.80 $v = 9.72$ $\sigma 8$ $\sigma 8$ 9.80 $v 4k$ 10.20

The plate number scratches the range of v

AC 1481, May 21, 1901 Isochromatic
Reg. not on plate

Extreme edge

AC 2340, Feb. 15, 1902

Drooping from

11.40 $m 3v$ 11.70 11.50 $v = 11.60$ $\sigma 10$ $\sigma 10$ 11.50 $v 1n$ 11.60

AC 1950, Nov. 19, 1901

10.64 $L 2v$ 10.84 10.80 $v = 10.82$ $\sigma 2$ $\sigma 2$ 10.80 $v 2k$ 11.00

Extreme edge

Uncertain - Extreme corner. Drooping faint, film as from solution

Drooping from

AC 3515, April 18, 1903

10.64 $L 1v$ 10.74 10.80 $v = 10.77$ $\sigma 3$ $\sigma 3$ 10.80 $v 2k$ 11.00

AC 3581, May 1, 1903

11.40 $m 1N$ $v < 11.5$

* See note p. 76

October 23, 1903 Reduced April 27, 1910
S. Vasac Majoris, continued

AC 3664, May 22, 1903
Too near edge

AC 3492, April 11, 1903
9.34 \star 9.5N 9.84 $v < 9.5$

Extreme edge AC 3316, Feb. 18, 1903
9.34 \star 9.7V 10.04 10.20 10.34 $v = 10.19$ 15 or 15-
10.20 \star 10.20
10.34 \star 10.64

AC 3715, June 3, 1903
10.64 \star 10.7 $v < 10.7$

AC 3553, April 27, 1903
10.64 \star 10.7 $v < 10.7$

AC 1529, June 12, 1901
Too near edge

AC 2394, March 6, 1902
11.60 \star 11.7 $v < 11.7$

AC 1981, Nov. 19, 1901
Too far on edge of line. Plate number scratched again

AC 1493, June 3, 1903
10.10 \star 10.20 $v = 10.10$?

\star scratched by plate number
I 22946 May 26, 1899
10.54 \star 10.64 $v = 10.54$?

Extreme
edge of plate

\star See note p. 106
h and k not confirmed

October 24, 1903
S. Vasac Majoris continued

Friday, October 24, 1903

Plate I 15476 re-measured
10.20 h 4 v 10.60 10.54 $v = 10.57$ 03 03
10.54 v 10.64

Original observation Book III, page 59
was "K 2V, 10.6". Probably it was intended
to record h instead of K. Report the original
observation

October 23, 1903 Reduced April 20, 1905
W.F.M.Ursae Majoris Cont. from p. 60

I 28159, Dec. 30, 1901

13.19 α 1K $v < 13.3$ I 1844^{4.14} Aug. 5, 189710.60 α 1V 10.70 10.72 $v = 10.71$ α 0110.72 α 38 11.02

* assumed to be h

Assumed to be

I 15624, as this

plate as then agreed

mag. and date. W.F.M. April 20, 1905
I 15624 is not
mag.

October 24, 1903

Reduced April 21, 1905
W.F.M.Ursae Majoris continued

I 17293, Feb. 9, 1897

14.22 α 3V 14.52 14.92 $v = 14.72$ α 2014.92 α 2X 15.12

I 22946, May 26, 1899

9.36 α 12V 9.56 10.02 $v = 9.79$ α 2310.02 α 1K 10.12

I 16793, Dec. 14, 1896

11.84 α 3V 12.14 12.27 $v = 12.20$ α 0612.27 α 10 12.37I 15624^{6.2}, Aug. 8, 189611.84 α 1V 11.94 11.97 $v = 11.96$ α 0111.97 α 40 12.37

I 18205 June 11, 1897

7.96 α 5V 8.46 8.69 $v = 8.58$ α 118.69 α 49 9.09

b, c, d, too distant to compare

I 19656, Dec. 2, 1897

Too poor

I 25314, May 10, 1900

9.36 α 5V 9.86 10.12 10.20 $v = 10.06$ α 06 1410.12 α 0K 10.1210.20 α 4K 10.60

Image of h in different focus from others

Reduced April 21, 1915
8.7 m.

October 24, 1903

J. K. M. Majoris Continued

I 25342, May 12, 1900

9.36	g' 3v	9.66	10.02	$v = 9.85^H$	$\frac{18}{17}$	18
10.02	v 1h	10.12				

I 17811, April 11, 1897

11.34	m 2v	11.54	11.64	$v = 11.59$	08	08
11.64	v 2n	11.84				

I 18204, June 11, 1897

7.96	l 6 v	8.56	8.79	$v = 8.68$	12	11
8.79	v 3 g	9.09				

b, c, d too distant to compare

I 16786, Dec. 14, 1896

11.84	m 2v	12.04	12.17	$v = 12.10$	06	07
12.17	v 20	12.37				

I 15992, Sept. 23, 1896

8.38	l 5v	8.88	8.69	$v = 8.78$	10	09
8.69	v 4g	9.09				

I 16544, Nov. 14, 1896

9.36	g 4v	9.76	10.12	10.30	$v = 10.06$	00	06	24
10.12	v 0h	10.12						
10.30	v 3k	10.60						

Form of h different from that of other images, same size

October 24, 1903 Reduced April 21, 1915 111
8.7 m.

J. K. M. Majoris Continued

I 17346 Feb. 16, 1897

12.37	0 11	$v < 12.5$
-------	------	------------

I 20375, March 5, 1898

9.09	g 1v	9.19	9.03	$v = 9.11$	08	08
9.03	v 1f	9.13				

I 22927, May 25, 1899

9.36	g' 2v	9.56	10.02	$v = 9.77$	23	23
10.02	v 1h	10.12				

Extreme edge of plate. ^{Images} ~~Images~~ differ greatly in focus.

I 23176, July 13, 1899

7.96	l 3v	8.26	8.69	$v = 8.48$	22	21
8.69	v 4g	9.09				

Near edge

I 23750, Oct. 13, 1899

11.34	m 2v	11.54	11.54	$v = 11.54$	00	00
11.54	v 3n	11.84				

Uncertain. Images faint and in different focus

I 28848, May 31, 1902

7.96	l 4v	8.36	8.59	$v = 8.48$	12	11
8.59	v 5g	9.09				

I 28818, May 25, 1902

7.96	l 4v	8.36	8.59	$v = 8.48$	12	11
8.59	v 5g	9.09				

October 24, 1903 Reduced April 21, 1915
 J. V. M. Majoris Cont.

Near edge

I 23787, Oct. 14, 1899

11.34 m 4v 11.74 11.74 v = 11.74 ∞ ∞

11.74 v 1 m 11.84

Focus of a more diffuse. Comparison difficult

AC 3351, Feb. 23, 1903

9.13 f 5v 9.63 9.26 v = 9.44 19 18

9.26 v 1 g 9.36

AC 2693, July 16, 1902

10.60 K 3v 10.90 10.92 v = 10.91 21 21

10.92 v 1 L 11.02

Image of L from

AC 3650, May 25, 1903

12.56 p 1v 12.66 v = 12.66?

g m 2

AC 3466, March 31, 1903

11.02 L 2v 11.22 11.14 v = 11.18 04 04

11.14 v 2 m 11.34

AC 1354, March 18, 1900

Too poor in reg 8 m

Edge of plate

AC 1562, June 21, 1901

10.60 K 1v v < 10.7

AC 1555, June 18, 1901

12.56 f 1v v < 12.7

October 24, 1903 Reduced April 21, 1915
 J. V. M. Majoris Cont.

AC 581, Dec. 9, 1897

11.84 m 1v v < 11.9

AC 333, May 26, 1899

9.36 g 2v 9.56 10.02 v = 9.77 23 23

10.02 v 1 L 10.12

AC 2412, March 14, 1902
 Reg. not on plate

AC 3515, April 18, 1903

11.84 m 1v v < 11.9

AC 3581, May 1, 1903

11.84 m 1v v < 11.9

AC 3664, May 22, 1903

11.02 L 1v v < 11.1

AC 3492, April 11, 1903

11.02 L 1v v < 11.1

Coming
 plate

AC 3316, Feb. 18, 1903

9.13 f 2v 9.33 8.96 v = 9.14 17 18

8.96 v 4 g - 9.26

" "

AC 3715, June 2, 1903

11.02 L 2v 11.22 v = 11.22?

m n 2.

AC 3553, April 27, 1903

11.02 L 1v v < 11.1?

Film in poor condition

AC 1403, April 12, 1901

Trails

October 24, 1903 Reduced April 21, 1910
J. H. M. Majoris Continued

AL 3706, May 31, 1903

12.56 *p 1 N* $v < 12.7$

AL 3403, March 6, 1903

9.13 *f 6 v* 9.73 9.36 9.82 $v = 9.64$ 07 25 18

9.36 *v 0 g* 9.36

9.82 *v 3 h* 10.12

AL 1007, Dec. 22, 1900

9.96 *l 7 r* 8.66 9.09 9.03 $v = 8.93$ 27 16 10

9.09 *v 0 g* 9.09

9.03 *r 1 f* 9.13

AL 171, Jan. 23, 1899

9.36 *q 1 N* $v < 9.5$

AL 2657, July 1, 1902

9.13 *f 3 r* 9.43 9.06 $v = 9.24$ 19 18

9.06 *v 3 g* 9.36

Uncertain very faint

AL 2308, March 6, 1902

11.34 *m 1 N* $v < 11.4$

AL 2190, Jan. 15, 1902

12.37 *o 1 N* $v < 12.5$

AL 1503, June 5, 1901

11.02 *l 1 N* $v < 11.1$

AL 3303, March 1, 1903

9.13 *f 5 r* 9.63 9.26 $v = 9.44$ 19 18

9.26 *v 1 g* 9.36

AL 1481, May 21, 1901 Determinative

9.13 *f 1 N* 9.23 $v < 9.2$

October 24, 1903 Reduced April 21, 1910
J. H. M. Majoris Continued

AL 2370, Feb. 15, 1902

12.56 *p 2 N* $v < 12.8$

AL 1980, Nov. 10, 1901

11.02 *l 2 v* 11.22 11.14 $v = 11.18$ 04 04

11.14 *v 2 m* 11.34

Film in poor condition

AL 1529, June 4, 1901

10.12 *l 1 N* 10.22 $v < 10.2$

AL 1493, June 3, 1901

11.84 *m 1 N* $v < 11.9$

AL 2394, March 6, 1902

11.02 *l 3 v* 11.32 11.24 $v = 11.28$ 04 04

11.24 *v 1 m* 11.34

AL 1981, Nov. 19, 1901

11.34 *m 3 r* 11.64 11.74 $v = 11.69$ 02 02

11.74 *v 1 m* 11.84

Uncertain. Images very poor

AL 1465, May 15, 1901

11.02 *l 1 N* 11.12 $v < 11.1$

AL 3700, June 13, 1903

11.84 *m 1 N* $v < 11.9$

AL 2040, May 14, 1902

9.96 *l 1 v* 8.06 8.49 $v = 8.55$ 02 21

8.49 *v 6 g* 9.09

AL 2497, Feb. 7, 1902

10.12 *l 1 N* $v < 10.2$

An output near pos. of var. is provided by super-
faint. to be a defect

October 24, 1903 Reduced April 21, 1915
8.7 m.

These Majors Continued

Corner of plate

AC 3473, April 1, 1903

11.02 L 3 V 2 11.42 11.34 11.54 $V = 11.43$ 01 02 11
 11.34 v 0 m 11.34
 11.54 v 3 n 11.84

Edge of plate

AC 3367, Feb. 26, 1902

9.13 f 4 v 9.53 8.89 $V = 9.21$ 32 32

8.89 v 2 g 9.09

AC 2681, July 11, 1902

10.12 L 2 v 10.32 10.60 10.72 $V = 10.55$ 23 05 17

10.60 v 0 K 10.60

10.72 v 3 L 11.02

AC 3651, May 25, 1903

11.84 m 1 N $V < 11.9$

AC 3508, May 2, 1903

11.84 m 1 N $V < 11.9$

AC 2666, July 4, 1902

Fireworks on film April again

Near edge

AC 2574, May 23, 1902

8.00 L 1 V 8.10 8.18 $V = 8.14$ 04 04

8.18 v 2 C 8.38

Corner of plate

AC 293, April 24, 1899

11.02 L 3 N 11.32 $V < 11.3$

Edge of plate

AC 3758, July 7, 1902

10.60 K 1 N 10.70 $V < 10.7$

AC 3555, April 27, 1902

11.02 L 1 N $V < 11.1$

AC 2497, April 19, 1902

8.00 L 1 V 8.10 8.18 $V = 8.14$ 04 04

8.18 v 2 C 8.38

October 24, 1903 Reduced April 21, 1915
8.7 m.

These Majors Continued

Near edge

AC 2353, March 3, 1902

11.84 n 3 v 12.14 $V = 12.14$?

12.37 0 v 5

AC 2266, Feb. 3, 1902

11.02 L 1 N $V < 11.1$

AC 3508, April 17, 1903

11.02 L 1 N $V < 11.1$

AC 2207, Jan. 17, 1902

12.89 2 2 v 13.09 $V = 13.09$?

8.3 n 2

AC 1604, July 13, 1901

10.12 L 1 v 10.22 10.40 $V = 10.31$ 07 09

10.40 v 2 K 10.60

AC 1534, June 13, 1901

11.34 m 1 N $V < 11.4$

AC 1248, Feb. 14, 1901

11.34 m 1 v 11.44 11.74 $V = 11.59$ 15 15

11.74 v 1 m 11.84

AC 3537, April 21, 1903

11.84 m 1 N $V \approx 11.9$

AC 1440, May 5, 1901

11.84 m 1 N $V = 11.9$

AC 1381, March 27, 1900

12.37 0 1 N $V = 12.5$

AC 1229, Feb. 8, 1901

11.02 L 2 v 11.22 11.24 $V = 11.23$ 01 01

11.24 v 1 m 11.34

October 24, 1903 Reduced April 21, 1915
 21.7.15
Therese Mayr's Continued

AC 3574, April 18, 1903
 Too poor in exp. of var.

AC 1090, Dec. 26, 1898
 Trails

AC 132, Dec. 18, 1898
 Faded in exp. of var.

Coming of plate
 Images very poor

AC 3156, July 6, 1903
 11.02 L1 V 11.12 v = 11.12?
 m n. 3.

AC 3493, April 11, 1903
 9.87 9.21 v < 9.8

As object near pos. of var. is a defect in film

AC 3424, March 13, 1903
 Too poor in exp. of var.

AC 3334, Feb. 24, 1903
 Registered on plate

AC 1524, June 11, 1901
 11.34 m1N v < 11.4

AC 2099, Dec. 24, 1901
 10.12 L2N v < 11.3

AC 3691, May 27, 1903
 10.60 K1N v < 10.7

AC 3454, March 20, 1903
 Too poor in exp. of var.

October 24, 1903 Reduced April 21, 1915
 21.7.15
Therese Mayr's Cont.

AC 3309, Feb. 17, 1903

9.13 f2v 9.33 8.69 v = 9.01 32 32
 8.69 149. 9.09

AC 2726, Aug. 7, 1902
 10.60 K1N v < 10.7

Coming
 of plate

AC 3850, Aug. 21, 1903

10.60 K2V 10.88 10.92 v = 10.86 06 06
 10.92 v1L 11.02

" "

AC 3444, March 19, 1903

10.60 K2V 10.80 10.92 v = 10.86 06 06
 10.92 v1L 11.02

Images faint and poor

" "

AC 2661, July 2, 1902

9.13 f5v 8.63 9.26 v = 9.44 19 18
 9.26 v1g 9.36

Images faint and poor

" " "

AC 2864, May 18, 1902

8.00 L3V 8.30 8.28 8.30 v = 8.33 03 02 03
 8.38 v0C 8.38

8.30 v3d 8.60

AC 3598, May 8, 1903

10.12 L1N v < 10.2

AC 1598, July 10, 1901

10.60 K2V 10.80 10.92 v = 10.86 06 06
 10.92 v1L 11.02

Images very poor

October 24, 1903 Reduced April 21, 1910
H.F.M.

I Unae Majoris Continued

AC 1211, Feb. 6, 1901

Too poor

AC 1387, March 30, 1901

12.37 0.1N V 12.5

AC 1561, June 2, 1901

11.02 L 1 N V 11.1

AC 3542, April 24, 1903

11.84 m 3 N 12.14 V 12.1

AC 3610, May 10, 1903

11.02 L 3 V 11.32 11.24 V = 11.28 0.4 0.4

11.24 V 1 m 11.34

AC 3640, May 17, 1903

11.34 m 1 N V 11.4

There is just a trace of each of these images

AC 2475, April 15, 1902

8.38 C 2 V 8.58 8.50 V = 8.54 0.4 0.4

8.50 V 1 d 8.60

AC 3734, June 26, 1903

11.02 L 1 N 11.12 V 11.1

AC 3561, April 28, 1903

11.34 m 1 N V 11.4

AC 3719, June 4, 1903

Too poor

AC 3500, April 12, 1903

11.84 m 3 V 12.14 12.27 V = 12.20 0.6 0.7

12.27 V 1.0 12.37

Very uncertain. Image of r blurred. m and o sharp
o very faintExtremely
faintOctober 24, 1903 Reduced April 21, 1910
H.F.M.

I Unae Majoris Continued

AC 1450, May 9, 1901

12.37 0.1N V 12.5

AC 3523, April 19, 1903 Lophometric

11.84 m 3 V 12.14 V = 12.14?

o n.s.

AC 261, March 24, 1899

11.84 m 2 V 12.04 V = 12.04?

o n.s.

Uncertain Images faint

AC 1341, March 16, 1901

12.56 p 2 V 12.76 12.70 V = 12.73 0.3 0.3

12.70 V 1 g 12.80

AC 1485, May 23, 1901

11.34 m 1 N V 11.4

AC 2265, Feb. 3, 1902

12.56 p 1 N V 12.7

AC 3737, June 27, 1903

12.56 p 1 N V 12.7

AC 3900, Sept. 7, 1903

8.60 d 3 N 8.90 8.99 V = 8.94 0.4 0.5

8.99 V 1 g 9.09

Focus very sharp. Companion not easy

AC 3417, March 12, 1903

Too poor

AC 1444, May 6, 1901

12.56 p 1 N V 12.7

AC 3317, Feb. 15, 1903

9.13 f 1 V 9.53 9.06 V = 9.30 0.3 0.4

9.06 v 3 g 9.36

October 24, 1903

J. W. M. Majoris Continued

AC 3476, April 3, 1903
Too poor.AC 1457, May 12, 1901
11.34 m 2 N $v < 11.5$

Coming plate AC 2121, Dec. 30, 1901

12.37 0 1 N $v < 12.5$ AC 1939, Nov. 2, 1901
11.34 m 1 N $v < 11.4$ AC 1438, May 4, 1901
11.02 1 1 N $v < 11.1$ Coming plate.
Longer from a faint
AC 3438, March 17, 1903
10.60 K 1 V 10.70 $v = 10.70?$
l n.e.

AC 2558, May 17, 1902

8.00 b 3 V 8.30 8.28 $v = 8.29$ " " 1

8.28 r 1 C 8.38

AC 1698, Aug. 30, 1901

9.13 f 2 V 9.33 8.96 $v = 9.14$ 19 18

8.96 v 4 g- 9.36

AC 2248, Jan. 25, 1902

11.02 1, 1 $v < 11.1$

AC 3436, March 17, 1903

9.09 g 2 N $v < 9.3$

AC 1670, Aug. 23, 1901

Too poor

AC 1575, June 8, 1901

11.54 m 1 N $v < 11.9$

October 24, 1903

J. W. M. Majoris, Continued

AC 1918, Oct. 28, 1901
Nothing in reg. of Var.AC 2247, Jan. 25, 1902
11.02 1 2 N $v < 11.2$ AC 1495, June 3, 1901
11.34 m 2 N $v < 11.5$

A blurred image seen from. of Var. does not coincide

AC 3486, April 10, 1903

11.02 1 2 N $v < 11.2$ AC 3532, Aug. 15, 1903
Too poor in reg. of Var.

AC 3400, May 30, 1903

11.84 1 m 1 N $v < 11.9$

AC 3501, April 12, 1903

11.34 m 2 N $v < 11.5$ Coming from
plate
Longer from
faint
AC 3474, April 1, 190311.02 1 2 V 11.22 11.24 $v = 11.23$ 01 01

11.24 v 1 m 11.34

AC 2799, Aug. 31, 1902

Too poor in Reg. of Var.

AC 3656, May 20, 1903

9.36 g 1 N $v < 9.5$

AC 1372, Sept. 1, 1903

Too poor

AC 908

9.36 g 1 N $v < 9.5$

December 12, 1903

R Lynga. Comparison stars p and r

I 344 Dec. 19, 1899

597 Feb 5, 1890

10897 March 24, 1899

16597 Nov. 12, 1896

16596 Nov. 22, 1896

17130 April 12, 1897

18471 Aug. 6, 1897

23355 Jan. 27, 1897

26068 Nov. 12, 1897

27542 March, 1902

An examination of the above plates, which include those showing the largest discrepancies in the estimates of brightness of r, indicate a variation in p rather than in r. Probably there is a variation in p of about three grades. The condition of the film, however, makes differences uncertain in some cases.

Little weight can be attached to previous observations on a c plate, because of the faintness of the stars.

January 1, 1904

S Cassiopeia

Examination of Faint Stars p Sequence on C Plate

On plate C 3409

u or

wix

x3t

t2y

y1y

C 6368

u4t

t1w

w1y

y3x

x1y

C 8339

u2x

x2t

t1w

w0y

y2y

C 3555

u4t

t1x

u3w

w1t

t1x

x1y

y1y

C 3442

u3x

x2t

t0y

y3w

w2y

All of these plates except C 6596 show clear images of these stars

C 6596

u1x

x3y

y0w

w0t

t0y

Images poor

Star y is not in the sequence but was mixed with the others, because its fluctuations were noticeable

January 6, 1904

Comparison Stars α , β and γ for R Lyrae
See also p. 124

C 3350	C 5376
3364	5451
3365	5452
3372	6036
3377	6245
3397	7023
3398	7107
3448	7455
3449	7601
3519	8330
3520	8343
3535	8354
3571	8473
5308	

An examination of the above plates shows no certain variation in the light of any of these stars. It probably fluctuates to the extent of about two grades. Doubtless the condition of the film and perhaps other causes affecting the light of faint objects is responsible for nearly all cases of apparent variation in the stars of this sequence.

January 6, 1904

R Aurigae Comparison Stars &
Examination of plates for variation.
I 2924, Jan. 26, 1891

AC 228, Feb. 25, 1899
AC 264, March 29, 1899
AC 2078, Oct. 8, 1902
AC 2958, Oct. 31, 1902
AC 3243, Feb. 5, 1903
AC 3922, Sept. 13, 1903
AC 3933 " " "
AC 4114 Nov. 15, 1903
AC 4279, Nov. 28, 1903
AC 4336, Dec. 10, 1903
AC 4408, Dec. 19, 1903
AC 1252, Feb. 17, 1901
I 5256, Dec. 18, 1891
I 5097 Dec. 11, 1891

On the above plates the sequence α , β , γ , δ appears normal.

Plate I 5227 Dec. 14, 1891 Near edge of plate

I 5441 Jan. 21, 1892 " " "

5374, Jan. 8, 1892 " " "

On the above plates β appears fainter than α and very little brighter than γ , but in each case the field is near the edge of the plate.

Plate I 5481, Jan. 31, 1892

This is one of the plates on which comparison stars were measured, and gave rise to suspicion that β might vary - but so certainly to fault in the plate.

January 14, 1904

I Cassiopeiae. Est. of Brightness Ant. from

Plate I 29594, Dec. 1, 1902

h 2v

v 1g

I 4604, Oct. 21, 1891

h 3v

v 0g

g too much fainter for comparison

I 2914, Jan. 24, 1891

p 2v

v 1p

I 2589 Dec. 24, 1890

m 1v

v 4m

I 16522, Nov. 14, 1896

r 3h?

d too bright to compare

I 17563 April 16, 1897

h 2K

B 1796

g 5v.

r 3g

I 9121, Aug. 8, 1893

p 1K

I 9940, Nov. 15, 1893

m 3v

r 2v

Images very
faint & poorNear edge -
Images much
out of focus - Com-
parison uncertainNear edge -
Images poor -
Comparison uncertainNear edge -
Extreme edge -
Comp. difficult

Jan. 14, 1904

I Cassiopeiae Ant

Images I 3224, March 3, 1891

from 2 2v

Comp. uncertain S. n. s.

I 12181, Jan. 2, 1895

Too near edge

Near edge I 2597, Dec. 25, 1890

Images very poor & faint K 1v

Comp. difficult v 2m

I 11639, Oct. 14, 1894

o 4v

v 0g

Extreme
edge of plate

p & p too near edge

Extreme

edge of plate

Images poor

B 71

v 0h

f, d and g not on plate

B 1952

g 5v

v 0g

v 4K

I 1529, July 27, 1890

g 6v

v 1g

I 1670, Aug. 24, 1890

g 1v

v 6g

I 11573, Oct. 10, 1894

Too near edge

Jan. 14, 1904

T Cassiopeiae Cont.

I 2688, Dec. 31, 1890

K 2 V

V 1 N

I 5022, Dec. 8, 1891

d 5 V

V 3 K

I 9177, Aug. 10, 1893

O 1 K

I 2559, Dec. 22, 1890

g 3 V

V 0 K

V 1 M

I 16223, Oct. 22, 1896

V 3 K

d too bright for comparison

I 11570, Oct. 10, 1894

p 2 V

V 1 G

I 15967, Sept. 20, 1896

g 1 V

g too much fainter to compare

I 10006, Nov. 24, 1893

n 3 V

V 2 N

I 11439, Sept. 11, 1894

Too near edge

I 11839, Nov. 11, 1894

K 1 N

Images from
fromNew edges
Comp. difficult

Images from

Jan. 14, 1904

T Cassiopeiae Cont.

New edge I 9379, Sept. 24, 1893

n 1 V

V 3 K

Extreme I 9988, Nov. 22, 1893

edge of

n 2 V

plate

V 4 N

I 9751, Oct. 25, 1893

Too near edge

Extreme I 29553, Nov. 20, 1902

edge of

V 3 G

plate

Lr d not on plate & too bright to compare

I 29592, Dec. 1, 1902 Wrong leg.

I 29627, Dec. 6, 1902

L 1 V

V 1 G

Edge of

I 4451, Nov. 3, 1892

plate

n 1 V

V 40

Extreme

I 9337, Aug. 29, 1893

edge of plate

n 2 V

Too dark to

V 3 K

I 31169, Nov. 20, 1903

g 1 V

g too fainter to compare

Images from

I 13508, Nov. 7, 1895

from

m 1 V

V 1 M

Jan. 14, 1904
Flamingo Cont.

Near edge
 of plate

I 15237, June 2, 1896
 v0g
 r4k

Edge of
 plate

g too much brighter to compare
 I 31232, Dec. 2, 1903
 g5r
 r2g

I 11466, Sept. 20, 1894
 too near edge

I 31198, Nov. 25, 1893
 k3r
 v0g
 r5g

I 18149, May 25, 1897
 too far

I 24085, Nov. 17, 1899
 tracks

I 11597, Oct. 11, 1894
 p3r
 v0g
 r12

I 31206, Nov. 28, 1903
 too near edge

I 24084, Nov. 17, 1899
 tracks

I 11445, Sept. 11, 1894
 r0n
 r20

n too much brighter to compare

Extensive
 edge of plate
 Images far

Jan. 14, 1904
Cassiopeia Cont.

Near
 edge
 of plate

I 18308, July 1, 1897
 p2r
 v0p
 r3g

Extensive
 edge of
 plate

Images very poor. Obj. concentrated
 I 29642, Dec. 8, 1902
 g4r
 g not on plate

I 13907, Nov. 25, 1895
 n5r
 r0n
 r20

Extensive
 edge of
 plate

I 27539, Aug. 4, 1901
 v0g?

Images very poor for comparison
 g too much brighter + g too much fainter

Extensive
 edge of
 plate

I 27385, Aug. 25, 1901
 g1r
 g not on plate
 I 25633, Aug. 9, 1900
 v0g
 r3n

Near edge
 of plate

g too much brighter for comparison
 I 29643, Dec. 8, 1902
 g3r
 r4g

I 24216, Dec. 12, 1899
 n1r
 r0n
 r4n

Jan. 14, 1904

Therapeutic Inst.

I 1194, Nov. 16, 1894

Too near edge

Near edge -
Images very
poor

I 15891, Sept. 4, 1896

g 3v

v 4g

Images very
poor

I 12035, Dec. 6, 1894

g 1v

t m.s.

Extreme
edge of
plate

I 29698, Dec. 23, 1902

g 2v

v 4g

Extreme
edge of plate

I 13291, Aug. 26, 1895

v 1g

Images of 2 too poor for comparison

I 18340, July 14, 1897

Too poor

I 16532, Nov. 14, 1896

h 2v

v 0g

g too much fainter to compare

I 29659, Dec. 9, 1902

g 2v

v 5g

Near edge
of plate - very
poor

I 28105, Dec. 21, 1901

o 1v

v 2g

Extreme edge.
Obs. doubtful

p and p not on plate

Jan. 14, 1904

Therapeutic Inst.

I 15506, July 18, 1896

Too poor

I 18440, Aug. 5, 1897

v 0g

v 3K

Images of 2 too much brighter for comparison

I 15707, Aug. 18, 1896

Too poor

I 13609, Oct. 2, 1895

g 4v

v 3g

Images
poor

I 16018, Sept. 23, 1896

g 4v

v 4g

I 17054, Jan. 12, 1897

g 1v

v 2m

Extreme
edge of plate

I 12061, Dec. 13, 1894

h 1v

v 3g

I 1588, Aug. 4, 1890

v 0g

v 3m

g too much brighter to compare

I 4605, Oct. 21, 1891

g 2v

v 0g

g too faint to compare

January 14, 1904
 I Chrysipina Ant.

Plate I 11726, Oct. 18, 1894

f 91v
 v02
 v52'

Exhaustive
 edge of plate

B65

g 1v ?
 v6g' ?

Jan 27, 1904

AC 2957, Oct. 31, 1902

f 4v
 v0k
 v1g

January 15, 1904
 I Chrysipina Continued.

AC 3101, Dec. 24, 1903

g 3v
 v5g'

AC 2809, Sept. 2, 1902 Rocks.

g 21v

AC 975, Aug. 30, 1902

g 11v

AC 4010, Sept. 29, 1903

g 2v
 v6g'

AC 4355, Dec. 13, 1903

g 2v

g' too much fainter to compare

Exhaustive
 corner

AC 3157, Jan. 10, 1903

g' 11v

AC 2510, Sept. 4, 1902 Rocks. ?

g 3v

g' m.s.

corner of plate

AC 4003, Sept. 28, 1903

corner of
 plate

Image of bright star is too much
 out of focus for v to be seen

corner of
 plate

AC 4345, Dec. 11, 1903

v0k

v3g

f and h too bright to compare

Plate
 fogged

AC 3156, Jan. 10, 1903

g 2v
 v3g'

Jan. 15, 1904

T Cassiopeiae cont.

AC 3035 Dec. 2, 1902

g 2v

g m.s.

Images very faint - obs. difficult

AC 4204, Nov. 12, 1903

Trails like in class C plates

Near edge
of plate

AC 2067, Oct. 7, 1902

f 3v

v 1h

~~This star f is now in~~
~~center for the first time~~

Separated on pp 144 + 142

Corner of plate

AC 3982, Sept. 24, 1903

Images of c too much out of focus
for var. b to seenNear edge
of plate

AC 4343, Dec. 11, 1903

f 4v

v 1h

Near edge
of plate

AC 4178, Nov. 8, 1903

h 1v

v 1g

f
f
f

f 5h
f 4h

Jan. 15, 1904

T Cassiopeiae cont.

AC 3014, Nov. 23, 1902

h 2v

v 0g

v 6g

AC 3148, January 8, 1903

Corner of plate - Images too poor

AC 1161, Jan. 19, 1901

f 1v

v 1g

Edge of
plateImages
faint

AC 4228, Nov. 19, 1903

g 1v

v 1g

AC 3163, Jan. 13, 1903

v 1g

g too bright to compare

Near edge
of plate

AC 3050, Dec. 6, 1902

h 1v

v 1g

AC 3086, Dec. 20, 1902

g 4v

v 4g

f 4v

f 4v

f 4v

f 4v

f 4v

f 4v

f 4v

f 4v

f 4v

Corner of
plate

AC 2143, Jan. 3, 1902

Images too poor

AC 3916, Sept. 11, 1903

g 4v

v 4g

Images very
dark

f 4v

f 4v

Jan. 15, 1904

T. Cassin. Cont.

A C 2929, Oct. 23, 1902

f' 4v

v 2h

f 3ff

f 6h

Corner of plate

A C 3107, Dec. 27, 1902

g 3v

v 2g

A C 3937, Sept. 14, 1903

margin region

A C 3088, Dec. 20, 1902

Corner of plate. Image too poor

A C 3866, Aug. 27, 1903

g 3v

v 4g

A C 2796, Aug. 30, 1902

g 5v

v 2g

A C 2909, Oct. 19, 1902

A defect in plate close to the variable
makes estimate inadvisable

A C 2777, Aug. 25, 1902

g 4v

v 3g

A C 2327, Feb. 14, 1902

Corner of plate. Image too poor

January 15, 1904

T. Cassin. Cont.

Corner

of plate

A C 3070, Dec. 10, 1902

g 1v

g' too faint to compare

A C 2795, Aug. 30, 1902

Stars - too poor

A C 3092, Dec. 23, 1902

g 4v

v 4g

Near

edge of

plate

A C 2876, Oct. 5, 1902

v 2h

f and f' too much brighten

On most plates f' is too near the
magnitude of f to be useful. On a few
plates on which the field is near the
edge, it appears to be nearly half way
between f and h, but I see no real
indication of variation in any of the three
class.

A C 3079, Dec. 15, 1902

g 3v

v 4g

A C 4316, Dec. 6, 1903

Corner of plate. Image too poor

A C 3127, Dec. 31, 1902

g 5v

v 3g

A C 2046, Dec. 4, 1901

f' 1v

v 1h

Corner of plate

Image poor

Difficult

Jan. 15, 1904

I Casrip. Ant.

AC 2936, Oct. 25, 1902

f 2v

v 2h

This f is different from the one previously
noted - See change (in ink) on chart p. 135

f 5f

f 4h

Corner of plate
Images very poor

AC 3083, Dec. 19, 1902

g 3v

v 4g

Near edge
of plate

AC 4245, Nov. 24, 1903

f 3v

v 1h

AC 4023, Oct. 2, 1903

Corner of plate - Images too poor

Near edge
of plate

AC 4389, Dec. 17, 1903

f 1v

v 3h

Near edge
of plate

AC 3192, Jan. 19, 1903

g 5v

v 2g

Near edge

AC 3043, Dec. 5, 1902

h 2v

v 1g

g too faint to compare

AC 4210, Nov. 14, 1903

g 1v

g too faint to compare

f 5f

Jan. 15, 1904

I Casrip. Cont.

Near edge
Images very
poor

AC 4016, Sept. 30, 1903

g 3v

v 4g

AC 4373, Dec. 15, 1903

h 1v

v 2g

Images very faint. From sharp. Obs. difficult

Near edge
Images poor

AC 2758, Aug. 16, 1902

g 4v

v 4g

AC 4125, Oct. 29, 1903

g 5v

v 4g

f 5f

f 4h

AC 2964, Nov. 1, 1902

f 3v

v 1h

AC 1973, Nov. 10, 1901

Corner of plate - Images too poor

AC 4129, Oct. 29, 1903

Corner of plate - Images too poor

AC 4330, Dec. 8, 1903

g 1v

v 6g

Images of r not separated from c

Jan. 15, 1904

Flamingo. Cont.

AC 3953, Sept. 19, 1903

Too poor

AC 1866, Oct. 15, 1901

g 5 r

r 2 g

AC 3146, Jan. 8, 1903

g 4 r

r 3 g

AC 2761, Aug. 16, 1902

g 3 r

r 4 g

AC 4321, Dec. 7, 1903

f 4 r

v 1 k

AC 3943, Sept. 15, 1903

g 3 r

r 4 g

AC 4323, Dec. 7, 1903

f 3 r

r 1 k

AC 3136, Jan. 1, 1903

g 3 r

r 4 g

AC 2942, Oct. 28, 1902

f 3 r

r 2 k

AC 3145, Jan. 5, 1903

Area of plate - Image too poor

Area of plate
Images poorEdges of plate
Images very
faint and poorEdges of plate
Obs. difficultImages
faintNear edge
of plates

Jan. 15, 1904

Flamingo. Cont.

AC 1956, Nov. 20, 1901

n 2 v

v 3 n

Images very poor. Obs. uncertain

AC 3891, Sept. 4, 1903

Obs. near edge

AC 3956, Sept. 20, 1903

g 4 r

r 2 g

Images extremely faint. Obs. uncertain

AC 4335, Dec. 10, 1903

f 5 r

v 0 k

v 1 g

f 6 f

f 4 k

AC 48, Sept. 28, 1895

m 1 r

v 1 n

Images very faint. Obs. uncertain

AC 3141, Jan. 8, 1903

Obs. near edge

AC 2977, Oct. 8, 1902

Obs. near edge

Area of
plate

Jan. 15, 1904

Harcup. Ant.

AC 412, Nov. 7, 1903

g^{iv}

g' too faint to compare

AC 2919, Nov. 7, 1902

f^{3v}v^{1h}

AC 2754, Aug. 14, 1902

g^{4v}v^{3g}

AC 953, Aug. 10, 1900

Too near edge

AC 3060, Dec. 8, 1902

g^{3v}v^{5g}

AC 3204, Jan. 22, 1903

v^{1g}

g' too bright to compare

AC 4406, Dec. 19, 1903

f^{5v}v^{1h}v^{1g}

AC 4062, Oct. 19, 1903

g^{4v}v^{3g}

Images very poor. Obs. uncertain

AC 4289, Nov. 25, 1903

g^{1v}

g' too faint to compare

Extreme
inner of plate

Jan. 15, 1904

Harcup. Ant.

Near edge AC 703, Feb. 1, 1900

Images

g^{4v}

poor

v^{3g}

AC 3065, Dec. 9, 1902

f^{5v}v^{1h}

Near

edge of

plate

AC 3210, Jan. 23, 1903

Too near edge

AC 4069, Oct. 20, 1903

g^{1v}

g' too faint to compare

AC 4433, Dec. 24, 1903

Too near edge

Near edge

of plate

AC 3785, July 26, 1903

g^{4v}v^{3g}

Near edge

of plate

AC 3811, August 18, 1903

g^{2v}v^{5g}

Images very poor. Obs. doubtful

AC 4206, Nov. 30, 1903

g^{1v}

g' too faint for comparison

AC 4264, Nov. 25, 1903

g^{1v}v^{5g}

AC 3835, Aug. 15, 1903

Too poor

January 15, 1904.

Nassau. Cont.

AC 3396, March 6, 1903

Too near edge

AC 3765, July 11, 1903

95v

109g

vcm

AC 3854, Aug. 21, 1903

Wrong reg.

AC 2747, Aug. 13, 1902

92v

159g

AC 1751, Sept. 16, 1901

Too near edge

AC 4055, Oct. 23, 1903

94v

139g

AC 4440, Dec. 26, 1903

95v

voh

voh

g too faint to compare

AC 3223, Jan. 30, 1903

92v

vcm

AC 3070, Dec. 9, 1902

91v

159g

Near edge
of plateNear edge
Image very poorCenter of plate
Image very poor
Obs. difficult

January 15, 1903

J Cassio. Cont.

AC 4269, Nov. 26, 1903

95v

voh

129g

Trails - from focus. Obs. uncertain

AC 1763, Aug. 30, 1901

Too near edge

AC 4092, Oct. 24, 1903

95v

139g

AC 4453, Dec. 28, 1903

93v

12h

AC 3239, Feb. 3, 1903

12v

13h

AC 3074, Dec. 14, 1902

Too poor

AC 1198, Feb. 2, 1901

Too poor

AC 4275, Nov. 28, 1903

Too poor

AC 3823, Aug. 13, 1903

95v

129g

AC 3336, Feb. 22, 1903

Too near edge

Image
fromNear edge
Image very
poor

January 15, 1904
 Harsig. Cont.

Images
 very poor

AC 4472, Dec. 31, 1902
 vof
 vph

and f too bright for comparison

Plate fogged
 Improving poor

AC 4302, Dec. 4, 1903
 f 3v
 voh

AC 3273, Feb. 10, 1903
 n 4v
 n n.s.

AC 4102, Oct. 26, 1903
 too near edge

AC 4465 Dec. 30, 1903
 too near edge

AC 3209, Feb. 13, 1903
 n 5v
 v n n'

AC 4296, Dec. 1, 1903
 f 4v
 v 1h

AC 3520, Aug. 12, 1903
 too near edge

AC 3310, Feb. 13, 1903
 n 3v
 v 1 n'

AC 4104, Oct. 26, 1903
 g 2v
 v 5g

Images faint

Near edge

Jan. 15, 1904

Harsig. Cont.

AC 4471, Dec. 31, 1902
 f 4v
 v 1h

AC 2975 Nov. 3, 1902
 too poor

AC 4144, Oct. 31, 1903
 g 5v
 v 3g

AC 2742, Aug. 12, 1902
 too near edge

AC 4098, Oct. 25, 1903
 g 2v
 v 5g

AC 4456, Dec. 28, 1903
 too near edge

AC 3241, Feb. 3, 1903
 too near edge

AC 3078, Dec. 18, 1902
 g 3v
 v 4g

AC 4276, Nov. 28, 1903
 f 5v
 v 1h

r not separated from c. Obs. difficult

AC 2032 Dec. 1, 1901
 too near edge

AC 2908
 too poor

January 16, 1904

Transferring cont

Remounting of plates on which but one comparison was made or no comparison stars used.

AC 2650, June 27, 1902

g 3v

v 5g

AC 2553, Jan. 3, 1902

n 2v

v 00

v 1p

p and p are in very sharp focus and appear unduly bright

AC 2077, Dec. 15, 1901

n 5v

v 00

v 20

AC 1943, Nov. 2, 1901

g 75

v 1g

AC 1800, Sept. 27, 1901

g 4v

v 3g

AC 1696, Aug. 27, 1901

f 3v

v 1h

AC 960, Aug. 11, 1902

v 0g?

much known

g too bright for comparison

Images very faint.
Obs. doubtful

Images extremely faint

Jan. 16, 1904

Transferring cont.

AC 862 May 2, 1900

f 4v

v 1h

AC 656, Jan. 4, 1900

v 0g

v 2m

g too bright for comparison

AC 2063, Dec. 6, 1901

n 3v

v 2n

AC 396, Aug. 15, 1899

Near edge - Images too poor

AC 1240, Feb. 14, 1901

Near edge - Images too poor

AC 1579, June 28, 1901

f 1v

v 3h

Near edge
Images very poor. Obs.
uncertainNear edge
Images poorNear edge
Images very poor

AC 1662 Aug. 16, 1901

f 1v

v 3h

Observation doubtful

AC 1985, Nov. 29, 1901

g 2v

v 0m

v 2m

Obs. difficult

January 16, 1904

Thompson. Cont.

AC 2656, June 27, 1902

Too poor

Near edge
Images poor

AC 698, Jan. 30, 1900

26v

112'

AC 1222, Feb. 8, 1901

m 1v

o m.s.

AC 1792, Sept. 26, 1901

112'?

Images ex-
tremely faint
and poor

2 too much brighter to compare

AC 1956, Nov. 4, 1901

25v

122'

AC 2073, Dec. 12, 1901

m 4v

11m

Images ex-
tremely faint

AC 2194, Jan. 16, 1902

102'?

2 + m not seen

2 too bright to compare

All observations on AC plates are difficult
on account of the proximity of the bright comparison
star ϵ .

January 16, 1903

Thompson. Cont.

C 7259, Nov. 2, 1894

24v

122'

C 6867, Dec. 20, 1893

25v

112'

Comp. difficult because of brightness and
distance of images.

C 8225, Sept. 3, 1895

21v

162'

Images faint

C 8257, Sept. 5, 1895

22v

152'

C 7430, Jan. 17, 1895

m 6v

10m

120

C 8468, Nov. 14, 1895

m 1v

13m

Focus very sharp. Comp. difficult

C 7742, Jan. 11, 1896

20v

9 m.s.

Uncertain. Images very faint and poor

January 16, 1904
Mass. Ant.

C8071, July 30, 1895
f^{iv}
v¹⁹

C4382, Jan. 25, 1892
f^{2v}
v¹⁹
g^{to} faint for comparison

C8592, Dec. 16, 1895
f^{2v}
v^{1p}

C6503, Jan. 22, 1894
v¹⁹
v^{1m}
g^{to} bright to compare

C6951, Aug. 5, 1894
g^{iv}
v^{om}
v²ⁿ

C4098, Oct. 25, 1891
g^{2v}
v^{4p}

Images much elongated
C5177, Nov. 21, 1892
g^{iv}
v^{1m}

Images
elongated

January 16, 1904
Mass. Ant.

C4121, Oct. 24, 1891
g^{iv}
v^{7p}

C6953, August 5, 1894
m^{iv}
v^{om}
v⁶ⁿ

C3543, March 7, 1891
g^{iv}
v¹²
v⁵ⁿ

C3357, Jan. 30, 1891
o^{iv}
v^{1p}
v^{2p}

C6998, Aug. 18, 1894
m^{3v}
v²ⁿ

C4162, Nov. 7, 1891
g^{iv}
g^{to} faint to compare

Estimates on C plates are difficult
when the variable is bright, on account
of the distance of comparison stars and
brightness of the images

January 16, 1904

S. Cassiopeiae Est. of Brightness of
new comparison stars f⁻ Aut p. 138

AC 3223 Jan. 30, 1903

f 6 f⁻
f 3 h

AC 2751 Aug. 19, 1902

f 5 f⁻
f 4 h

AC 4172, Nov. 7, 1903

f 5 f⁻
f 3 h

Four AC plates have already had estimates made
on them. Of these, AC 4128 p. 143 is the
best. The others are none of them so good
as the above three.

January 16, 1904 Reduced March 4, 1916
H. F. M. 159

S. Cassiopeiae - Est. of Brightness
Continued from Bk. V, 99

Plate I 29533, Nov. 10, 1902

1410 u 1 K

v < 14.23

I 24826, March 13, 1900

11.24 01 V 11.34 11.58 v = 11.46 12 12

11.58 v 4 m 11.98

I 28176, Dec. 27, 1901

11.24 04 V 11.64 11.98 11.88 v = 11.83 19 15 05

11.98 10 p 11.98

11.88 v 1 m 11.98

Edge
of plate

I 29648, Dec. 8, 1902

13.13 2 2 K v < 13.3

I 28260, Jan. 17, 1902

Too poor in exp. of var.

I 28410, Feb. 5, 1902

12.31 2 3 V 12.61 12.74 12.63 v = 12.66 05 08 02

12.74 v 0 2 12.74

12.63 v 5 a 13.13

Extreme
edge of plate

I 23617, Sept. 24, 1899

12.74 2 1 K v < 12.8

I 29649, Dec. 8, 1902

1410 u 2 K v < 14.3

Edge of
plate

I 15808, Aug. 28, 1896

10.48 2 2 v 10.68 v = 10.68 2

Extreme
edge of plate

L, o, p, in mtr on plate

January 16, 1904 Reduced March 4, 1916
8.7.7m.

S Cassiopeia Ant.

I 18057, May 6, 1897

14.10 *u or* 14.30 14.44 $v = 14.37$ 07 0714.44 *vix* 14.5414.10 *u 3x* 14.40 14.4514.45 *x 1 t* 14.5514.30 *t 3 yr* 14.60

Im. 7.7 m very poor and scarcely vis.

Extreme edge

I 28408, Feb. 5, 1902

12.74 *siv* 12.84 12.73 $v = 12.78$ 06 0512.73 *v 4 s* 13.13

I 15378 June 29, 1896

14.10 *uix* 14.20 $v = 14.20$? x and t n.s.Ident. of r not absolutely certain Images faint

AC 2272, Feb. 5, 1902

12.31 *u 2 K* $v < 12.5$

Edge of plate

AC 2080, Oct. 9, 1902

12.74 *siv* $v < 12.8$

AC 2777, Aug. 25, 1902

10.27 *m 1 K* $v < 10.3$

AC 2244, Jan. 25, 1902

 x F 1

Reject, as var. is near lim. of visibility.

AC 1697, Aug. 29, 1901

10.26 *K 3 r* 10.56 10.38 $v = 10.47$ 09 0910.38 *v 1 k* 10.48

Images poor

Edge of plate

Images very

faint and poor

Obs. uncertain

January 18, 1904 Reduced March 4, 1916
8.7.7m.

S Cassiopeia Antennae

Corner of AC 1015, Oct. 3, 1901

plate 9.59 *h 2 v* 9.79 9.91 $v = 9.85$ 06 069.91 *v 3 m* 10.21

Corner of AC 1877, Oct. 17, 1901

plate 9.59 *h 5 v* 10.09 10.11 $v = 10.10$ 01 0110.11 *v 1 m* 10.21

Corner of AC 499, April 25, 1902

plate 10.48 *h 2 K* $v < 10.4$

Corner of AC 1691, Aug. 28, 1901

plate 10.21 *m 1 v* 10.31 10.06 $v = 10.18$ 13 1210.06 *v 2 k* 10.26

Images faint and poor. Obs. very uncertain

AC 1200, Feb. 2, 1901

Too poor in reg. of var.

Corner of AC 2334, Feb. 15, 1902

plate 11.78 *p 3 v* 12.28 $v = 12.28$?

Images of AC 639, Dec. 29, 1899. Images ?

plate Images 10.48 *h 3 v* 10.78 10.74 $v = 10.76$ very poor 10.74 *v 50* 11.24

AC 437, Sept. 14, 1899

Too poor in reg. of var.

Extreme AC 2014, Sept. 5, 1902

Corner of plate 11.24 *o 1 K* $v < 11.0$

Edge of plate AC 1408, April 13, 1901

10.48 *h 1 v* $v < 10.5$ * Reject measure. See note ac 1800
v: 8 Remasured Feb. 11, 206

January 15, 1904

Reduced, March 4, 1916
8.7.7m.

S Carrisp. Ant

Edge of plate AC 2213, Jan. 20, 1902
11.24 0.2K V < 11.4Edge of plate AC 798, April 2, 1900
10.48 L 3 R 10.78? V = 10.78?
Too poor.Obs. very uncertain
Corner of plate AC 2221, Jan. 20, 1902
10.48 L 3 R 10.78? V = 10.78?
Too poor.Edge of plate AC 2873, Oct. 7, 1902
11.24 0.2K V < 11.4Edge of plate AC 545, Nov. 20, 1899
11.98 p. 1K V < 12.8Edge of plate AC 1659, Aug. 27, 1901
10.48 L 3 R 10.78 11.88 * V = 11.33 55 55
Too poor.

Obs. doubtful

Edge of plate AC 298, April 22, 1899
10.28 K 3 R 10.56 10.38 V = 10.47 09 09
10.38 R 1 L 10.48

Observation doubtful

AC 442, Sept. 16, 1899

Too poor
AC 1476, May 17, 1901
Too poor in reg. of star

* Reject measure. See XXXIX, 107

January 15, 1904

Reduced March 4, 1916
8.7.7m.

S Carrisp. Ant

Edge of plate AC 793, April 3, 1900
11.24 0.2K V < 11.4Edge of plate AC 2200, Jan. 7, 1902
11.98 p. 1K V < 12.8AC 1509, June 6, 1901
Too poor in reg. of star.Edge of plate AC 2161, Jan. 3, 1902
11.98 p. 1K V < 12.8AC 589, June 20, 1900
Too poor in reg. of star.Edge of plate AC 550, Nov. 27, 1899
9.71? Reject as variable is near limit of
variability.Ident. of star not certain
Edge of plate AC 2163, Jan. 5, 1902
12.30 9.1K V < 12.4Edge of plate AC 2212, Jan. 19, 1902
11.24 0.2K V < 11.4AC 2781, Aug. 26, 1902
11.98 p. 1K V < 12.8

AC 2315, Feb. 10, 1902

Too poor in reg. of star.
Edge of plate AC 2094, Dec. 21, 1901 *
10.48 L 5 R 10.78 11.14 V & 11.06 08 08
11.14 V 10 11.24

* Reject; too poor. See XXXIX, 107

Jan. 18, 1904

Reduced March 4, 1916
9.7 m.

S Cassio. Cont

Edge of plate

AC 2451, April 2, 1902

11.98 p. 1K

 $v < 12.5$

Edge of plate

AC 2612, June 8, 1902

11.98 p. 1K

 $v < 12.5$

AC 3550, Sept. 23, 1902

In position eq. 7 var.

AC 1945, Nov. 2, 1901

10.48 L 2 v 10.68 10.84

 $v = 10.76$

0.8 0.8

10.84 v 40 11.24

January 20, 1904

Reduced March 6, 1916

9.7 m.

S Cassio. Cont

AC 4033, Oct. 2, 1903

11.98 n. 1K

 $v < 12.5$

AC 4127, Oct. 29, 1903

11.24 o 2K

 $v < 11.4$

AC 3532, April 20, 1903

In position

AC 3215, Jan. 24, 1903

11.24 o 2K

 $v < 11.4$

AC 3866, Aug. 27, 1903

11.24 o 1K

 $v < 11.4$

AC 3937, Sept. 14, 1903

11.98 p. 1K

 $v < 12.5$

AC 3145, Jan. 5, 1903

10.48 L 1K

 $v < 10.5$

AC 4296, Dec. 1, 1903

11.98 n. 1K

 $v < 12.5$

AC 4335, Dec. 10, 1903

12.74 s. 1 v 2 12.84

 $v = 12.84^2$

t m. 3.

Images very faint. Sequence not normal

p. 3 n

n. 1 n

s. 1 s

s. 1 q 2? Images very faint

near
edge of plate

AC 3776, July 25, 1903

10.48 L 1 v

 $v = 10.58^2$ †

o m. 2.

AC 3938, Sept. 14, 1903

o F v?

near edge
of plateReject, as variable is near limit of
visibility

Jan. 20, 1904

Reduced March 6, 1916

S. F. M.

S. Cassio. Cont.

AC 2877, Oct. 8, 1902

11.98 ρ 1K $v < 12.6$

AC 4193, Nov. 10, 1903

11.24 01K $v < 11.3$

Near edge

AC 3012, Nov. 23, 1902

11.98 ρ 1K $v < 12.6$

AC 3147, Jan. 8, 1903

Too poor

AC 3895, Sept. 6, 1903

11.24 01K $v = 11.34$

from m.

AC 3256, Feb. 7, 1903

10.48 ρ 3K $v < 10.8$

Near edge

AC 3903, Sept. 7, 1903

11.24 01K $v < 11.3$

AC 4355, Dec. 18, 1903

12.30 ρ 2K $v < 12.5$

Image faint

AC 4278, Nov. 28, 1903

12.30 ρ 1K $v < 12.4$

0.52

21K

p 39

AC 3074, Dec. 14, 1902

Too poor

AC 3796, Sept. 6, 1903

10.48 ρ 1K $v < 10.8$

AC 4286, Nov. 30, 1903

12.30 ρ 1K $v < 12.4$

Near edge

of plate

January 20, 1904

Reduced March 6, 1916

S. F. M.

S. Cassio. Cont.

Near edge AC 3921, Sept. 12, 1903

10.48 ρ 1K $v < 10.8$

AC 3014, Nov. 23, 1902

12.74 ρ 1K $v < 12.8$

Near edge

AC 3798, Aug. 1, 1903

of plate

10.48 ρ 1K 10.58 $v < 10.58$

0 m. 3.

Near edge AC 4038, Oct. 14, 1903

12.30 ρ 7K Project, as variable is near limit of visibility.

AC 3845, Aug. 18, 1903

Too poor

Near edge

AC 3790, July 27, 1903

of plate, but

10.48 ρ 5K 10.98 11.14 $v = 11.06$

Image clear

11.14 ρ 10 11.24

AC 4345, Dec. 11, 1903

11.98 ρ 1K $v < 12.6$

Near edge

AC 4160, Nov. 3, 1903

11.24 01K $v < 11.3$

Edge of

plate. Image

appears extremely

faint of

AC* 3169, May 12, 1902

10.26 ρ 2K 10.46 10.88 $v = 10.42$ 10.38 ρ 1K 10.48

Observation uncertain. Certainly present and somewhat fainter than K

Near edge

AC 3223, Jan. 30, 1903

12.30 ρ 1K $v < 12.4$

AC 3126, Dec. 31, 1902

12.30 ρ 2K $v < 12.4$

* Assumed to be intended for AC 3619, as AC 3169 does not cover.

January 20, 1904 Reduced March 6, 1916
J.F.M.

S. Cassiope. Ant.

Near edge
of plate

AC 3067, Dec. 9, 1902

11.98 p. 1K $V < 12.1$

AC 4050, April 15, 1903

Too near edge

AC 3849, Aug. 22, 1903

11.24 0.2V? $V = 11.44?$

p. n.s.

AC 3116, Dec. 30, 1902

12.74 21K $V < 12.8$

AC 3874, Sept. 6, 1903

10.48 15V 10.98 11.14 $V = 10.6$ 0.8 0.8

11.14 V10 11.24

AC 4122, Oct. 29, 1903

12.30 91V 12.40 $V = 12.40?$

n. s. n. s.

AC 3013, Nov. 23, 1902

11.98 p. 1K $V < 12.1$

AC 3070, Dec. 7, 1902

11.24 0.2K $V < 11.4$

AC 3923, Sept. 13, 1903

11.24 0.3V? 11.54 $V = 11.54?$

f and n. s.

AC 3881, Sept. 3, 1903

12.30 91V 12.40 $V = 12.40?$

n. and s. n. s.

AC 3149, Jan. 9, 1903

Too near edge

Near edge
Images from

Obs. uncertain

Near edge
of plateJanuary 20, 1904 Reduced March 6, 1916 169
J.F.M.

S. Cassiope. Ant.

AC 3078, Dec. 17, 1902

12.74 21K $V < 12.8$

AC 3080, Dec. 17, 1902

12.74 21K $V < 12.8$

AC 3953, Sept. 19, 1903

Too poor

AC 3679, May 25, 1903

9.59 11.2V 9.79 9.91 $V = 9.85$ 0.6 0.6

9.91 V 3m 10.21

Edges of
plate - Images
very poor
faint.

Obs. difficult

AC 2964, Nov. 1, 1902

12.74 21K $V < 12.8$

AC 4030, Sept. 30, 1903

Too near edge

AC 3890, Sept. 4, 1903

Too poor in reg. of var.

AC 3151, Jan. 9, 1903

10.48 15K $V < 10.6$

AC 4024, Oct. 2, 1903

10.48 15K $V < 10.6$

AC 3843, Aug. 18, 1903

Too poor in reg. of var.

AC 3944, Sept. 15, 1903

Too poor in reg. of var.

AC 3148, Jan. 8, 1903

11.24 01K $V < 11.3$

AC 3881, Sept. 2, 1903

11.24 01K $V < 11.3$

Near edge

* Right measures. Remeasured by int. 11/20/04
See remarks ac 1800. B. I. 1.

January 20, 1904 Reduced March 6, 1916
S. F. M.

S Casimp. Cont.

AC 3910, Sept. 8, 1903

Too far in eq. for.

Near edge

AC 4306, Dec. 5, 1903

11.24 02N

 $v < 11.4$

Near edge

AC 3945, Sept. 16, 1903

11.24 01N

 $v < 11.3$

AC 4062, Oct. 19, 1903

12.74 02N 12.94

 $v = 12.94^2$

5 m.s.

Uncertain - Images very faint. Ident. of r difficult

AC 4129, Oct. 29, 1903

11.98 01N

 $v < 12.4$

AC 3834, Aug. 15, 1903

Too far

AC 4471, Dec. 3, 1903

10.48 02N

 $v < 10.6$

AC 3273, Feb. 10, 1903

07V3

Reject, as var. is near limit of vis.

Images very faint. Identification doubtful

AC 2917, Oct. 21, 1902

12.30 01N

 $v < 12.4$

AC 3042, Dec. 5, 1902

12.74 02N

 $v < 12.9$

AC 3720, Aug. 12, 1903

10.48 04N

10.88 11.04

 $v = 10.96$

08 08

11.04 12.0

11.24

focus of r very sharp. Amp. difficult and uncertain

January 20, 1904 Reduced March 6, 1916
S. F. M.

S Casimp. Cont.

Near edge AC 4426, Dec. 23, 1903

11.24 01N

 $v < 11.3$

Near edge AC 4214, Nov. 15, 1903

12.74 01N

 $v < 12.8$

AC 3639, May 17, 1903

Too far in eq. for.

Near edge AC 3289, Feb. 13, 1903

11.24 02N

 $v < 11.4$

AC 2937, Oct. 25, 1902

12.74 01N

 $v < 12.8$

AC 3051, Dec. 6, 1902

12.74 02N

 $v < 12.9$

Near edge AC 3824, Aug. 13, 1903

10.26 01N

 $v < 10.3$

AC 4433, Dec. 24, 1903

12.31 01N

 $v < 12.4$

Near edge AC 4249, Nov. 24, 1903

11.98 01N

 $v < 12.4$

Edge of plate - AC 3654, May 20, 1903

10.48 01N

 $v < 10.3$

Images very poor

Near edge AC 3333, Feb. 20, 1903

10.48 01N

 $v < 10.4$

AC 2950, Oct. 29, 1902

12.31 01N

 $v < 12.4$

AC 3059, Dec. 8, 1902

12.74 02N

 $v < 12.9$

Near edge AC 3828, Aug. 14, 1903

10.48 02N

 $v < 10.7$

January 29, 1904 Reduced March 6, 1916
H.F.M.

L. Cassio. Cont.

AC 4465, Dec. 30, 1903

10.48 L1N $v < 10.6$

AC 4264, Nov. 25, 1903

13.13 S1N $v < 13.2$

AC 3668, May 22, 1903

10.48 L4V 10.88 $v = 10.88^2$

0 m.s.

AC 3336, Feb. 23, 1903

13.13 S1N $v < 13.3$

AC 2952, Oct. 30, 1902

11.98 p2N $v < 12.8$

AC 4275, Nov. 28, 1903

12.30 q1N $v < 12.4$

AC 3671, May 23, 1903

10.26 K2V 10.46 10.18 $v = 10.32$ 14 14

10.18 r3L 10.48

AC 3385, March 2, 1903

11.24 o1N $v < 11.3$

AC 2956, Oct. 31, 1902

12.74 S1N $v < 12.8$

AC 3060, Dec. 8, 1902

13.13 S1N $v < 13.2$

AC 4167, Nov. 4, 1903

10.48 L3N $v < 10.8$

AC 3626, May 13, 1903

10.26 K1V 10.36 10.28 $v = 10.32$ 04 04

10.28 r2L 10.48

AC 3243, Feb. 5, 1903

11.24 o1N $v < 11.3$ Near edge -
Images from
Ok. diff. pointNear edge
of plate

Near edge

Edge of plate -
Images very
faint and from

January 29, 1904 Reduced March 6, 1916

H.F.M.

L. Cassio. Cont.

AC 3127, Dec. 31, 1902

12.74 S2N $v < 12.9$

AC 4172, Nov. 7, 1903

11.98 m1N $v < 12.6$

AC 4350, Dec. 16, 1903

12.74 S1N $v < 12.8$

AC 3502, Aug. 3, 1903

Too poor

AC 3022, Nov. 28, 1902

11.98 p1N $v < 12.4$

AC 4136, Oct. 30, 1903

11.98 p1N $v < 12.6$

AC 3633, May 15, 1903

Too poor in reg. of var.

AC 3251, Feb. 6, 1903

10.48 L3N $v < 10.8$

AC 3144, Jan. 5, 1903

12.31 m1N $v < 12.4$

AC 4147, Oct. 31, 1903

10.26 K3N $v < 10.8$

frag. and a hidden by scratch

AC 3028, Nov. 29, 1902

11.98 p1N $v < 12.6$

AC 3806, Aug. 7, 1903

10.48 L6V 11.08 11.14 $v = 11.11$ 03 03

11.14 v10 11.24

AC 4395, Dec. 18, 1903

12.74 S1N $v < 12.8$

Near edge

Near edge

Near edge

Near edge

Near edge
of plateImages from
diff. point

January 20, 1904 Reduced March 6, 1916
S.F.M.

S. Cassio. Ark.

AC 415, Nov. 9, 1903

11.24 01 N $v < 11.3$

AC 3634, May 15, 1903

Too poor in reg. of Trn.

AC 3891, Sept. 4, 1903

11.24 01 N $v < 11.3$

AC 3035, Dec. 2, 1902

Too poor in reg. of Trn.

AC 3810, Aug. 8, 1903

Too poor in reg. of Trn.

AC 4412, Dec. 22, 1903

12.31 21 N $v < 12.4$

AC 3635, May 15, 1903

Too poor in reg. of Trn.

AC 4152, Nov. 1, 1903

Trails

AC 3204, Jan. 22, 1903

25 V? Reject, as variable in near limit of visibility.

AC 3107, Dec. 27, 1902

12.31 21 N $v < 12.4$

AC 4114, Oct. 27, 1903

12.30 91 N $v < 12.4$

AC 4333, Dec. 10, 1903

12.30 91 N $v < 12.4$

AC 3772, July 17, 1903

10.26 24 V 10.66 10.74 $v = 10.70$ 01 04

10.74 150 11.24

A scratch near L makes it unsafe to use it for comparison. 0 is extremely faint.

Near edge.
St. difficult

Near edge-

January 20, 1904 Reduced March 6, 1916
S.F.M.

S. Cassio. Ark.

AC 3001, Nov. 19, 1902

11.24 02 N $v < 11.4$

AC 4004, Sept. 28, 1903

11.24 02 N $v < 11.4$

AC 3413, March 12, 1903

Too poor in reg. of Trn.

AC 3210, Jan. 23, 1903

13.13 62 N $v < 13.3$

AC 3112, Dec. 28, 1902

12.31 21 N $v < 12.4$

AC 3103, Dec. 24, 1902

12.30 91 N $v < 12.4$

AC 3925, Sept. 12, 1903

Too poor in reg. of Trn.

AC 2993, Nov. 14, 1902

Too near edge

AC 3764, July 10, 1903

Too poor

AC 4307, Dec. 7, 1903

Too poor

AC 3922, Sept. 24, 1903

11.98 12 V 11.18 12.20 $v = 12.19$ 01 01

12.20 119 12.30

AC 4102, Oct. 26, 1903

12.31 23 V 12.61 12.64 $v = 12.62$ 01 02

12.64 112 12.74

AC 3193, Jan. 19, 1903

12.31 21 N $v < 12.4$

January 20, 1904 Reduced March 6, 1916
S.F.M.

S Cassio. Lost.

Near edge

AC 3747, July 2, 1903

10.26 K 3 V 10.56 10.38 $v = 10.47$ 09 09

10.38 v 12 10.48

AC 3969, Sept. 22, 1903

Too poor

AC 3178, Jan. 17, 1903

12.74 S 1 N $v < 12.8$

AC 3091, Dec. 23, 1902

12.74 S 1 N $v < 12.8$

AC 3924, Sept. 12, 1903

11.24 0 4 V 11.64 11.88 $v = 11.76$ 12, 12.

11.88 v 12 11.98

AC 4093, Oct. 24, 1903

Too poor on neg. of 722

Near edge

AC 2991, Nov. 10, 1902

12.31 2 1 N $v < 12.4$

Near edge

AC 3748, July 3, 1903

10.26 K 3 V 10.56 10.38 $v = 10.47$ 09 09

10.38 v 12 10.48

Near edge

AC 3981, Sept. 24, 1903

11.24 0 3 N $v < 11.5$

AC 3184, Jan. 17, 1903

12.30 9 1 N $v < 12.4$

AC 3075, Dec. 23, 1902

12.74 S 1 N $v < 12.8$

AC 4113, Oct. 27, 1903

12.74 8 2 V 12.94 $v < 12.9$

5 ms

Near edge
Images faint
but clearJanuary 20, 1904 Reduced March 6, 1916 177
S.F.M.

S Cassio. ant.

AC 2994, Nov. 14, 1902

Too poor

AC 3766, July 15, 1903

10.48 L 1 V 10.58 10.74 $v = 10.66$ 08 08

10.74 v 50 11.24

AC 4316, Dec. 6, 1903

11.24 0 1 N $v < 11.3$

AC 4003, Sept. 25, 1903

11.98 2 3 V 12.28 $v = 12.28?$

9 ms.

AC 3396, March 6, 1903

12.74 S 1 N $v < 12.8$

AC 3913, Sept. 10, 1903

Too poor

AC 4078, Oct. 21, 1903

11.98 p. 1 N $v < 12.6$

AC 2970, Nov. 2, 1902

11.98 p. 1 N $v < 12.6$

AC 3684, May 25, 1903

Too poor on neg. of 722

AC 3956, Sept. 20, 1903

Too poor

AC 3157, Jan. 10, 1903

10.48 L 1 N $v < 10.5$

AC 3083, Dec. 19, 1902

Too poor

January 20, 1904 Reduced March 6, 1916
S.F.M.

S Casp. Ant.

AC 3916, Sept. 11, 1903

11.98 m/V $v = 12.08?$

qns.

AC 2975, Nov. 3, 1902

Los from

AC 3744, July 2, 1903

Los from neg. 2 var.

AC 3959, Sept. 2, 1903

11.24 02 N $v < 11.4$

AC 4079, Oct. 2, 1903

11.24 01 N $v < 11.4$

AC 3163, Jan. 12, 1903

Los from in neg. 4 var.

AC 3085, Dec. 20, 1902

11.24 02 N $v < 11.4$

AC 4086, Oct. 22, 1903

Los from in neg. 4 var.

AC 2970, Nov. 7, 1902

13.13 S' N $v < 13.2$

AC 3746, July 2, 1903

10.26 K 2 V 10.46 10.38 $v = 10.42$ 04 04

10.38 v/L 10.48

AC 3967, Sept. 22, 1903

Los from in neg. 4 var.

AC 3767, Jan. 13, 1903

11.98 p/L $v < 12.4$

AC 3088, Dec. 20, 1902

12.74 S' N $v < 12.8$

Near edge

January 29, 1904 Reduced March 6, 1916
S.F.M.

S Casp. Ant.

AC 3917, Sept. 11, 1903

11.98 p/V 12.08 12.20 $v = 12.14$ 06 06

12.20 117 12.30

AC 4092, Oct. 24, 1903

13.13 S' N $v = 13.23?$

u n s.

Images extremely faint

AC 2976, Nov. 8, 1902

11.24 02 N $v < 11.4$

AC 1757, Dec. 7, 1903

10.26 K' N $v < 10.3$

AI 1327, Aug. 27, 1903

10.21 m' N $v < 10.3$

AI 1731, Nov. 26, 1903

11.24 01 N $v < 11.3$

AI 1630, Nov. 7, 1903

10.26 K' N $v < 10.3$

AI 696, Feb. 3, 1903

10.21 m' N $v < 10.3$

AI 1266, Aug. 7, 1903

L.F. 2? Rept. as over is near limit of visibility

AI 258, Aug. 16, 1902

10.26 K 2 V 10.46 $v = 10.46?$

u n s.

Very uncertain. Images scarcely visible

AC 401, Oct. 20, 1902

10.26 K' N $v < 10.3$

January 20, 1904 Reduced March 6, 1916
S.F.M.

S Cassio. Ant.

AI 944, April 1, 1903

10.21 m 1 N $v < 10.3$

AI 546, Dec. 19, 1902

10.21 m 1 N $v < 10.3$

AI 1889, Dec. 23, 1903

10.21 m 1 N $v < 10.3$

AI 1672, Nov. 15, 1903

9.59 K 1 N $v < 9.7$

AI 951, April 5, 1903

10.21 m 1 N $v < 10.3$

AI 474, Nov. 19, 1902

9.59 K 2 N $v < 9.8$

AI 1828, Dec. 14, 1903

9.59 K 1 N $v < 9.7$

AI 1591, Oct. 30, 1903

9.59 K 1 N $v < 9.7$

AI 1239, July 24, 1903

10.21 m 1 N $v < 10.3$

AI 566, Dec. 27, 1902

10.26 K 1 N $v < 10.3$

AI 1917, Dec. 28, 1903

10.26 K 1 N $v < 10.3$

AI 1724, Nov. 25, 1903

10.21 m 1 N $v < 10.3$

AI 597, Jan. 1, 1903

10.48 L 1 N $v < 10.3$ January 20, 1904 Reduced March 6, 1916
S.F.M.

S Cassio. Ant.

AI 1091, May 13, 1902

9.59 K 1 N $v < 9.7$

AI 565, Dec. 27, 1902

11.24 O 1 N $v < 11.3$

AI 1933, Dec. 31, 1903

9.59 K 1 N $v < 9.7$

AI 1852, Dec. 17, 1903

9.59 K 1 N $v < 9.7$

AI 1609, Nov. 1, 1903

10.26 K 2 N $v < 10.5$

AI 819, Feb. 25, 1903

10.48 L 2 N $v < 10.7$

AI 496, Nov. 29, 1902

9.59 K 1 N $v < 9.7$

AI 578, Dec. 30, 1902

10.26 K 1 N $v < 10.4$

AI 1249, July 27, 1903

9.59 K 1 N $v < 9.7$

AI 573, Dec. 28, 1902

10.48 L 1 N $v < 10.6$

AI 1681, Nov. 17, 1903

9.59 K 2 N $v < 9.8$

AI 969, April 12, 1903

10.21 m 1 N $v < 10.3$

AI 672, Jan. 23, 1903

10.21 m 1 N $v < 10.3$

AI 773, Feb. 19, 1903

10.48 L 2 N $v < 10.7$

January 20, 1904 Reduced March 6, 1916
S. F. M.

S. Cassio. Ant.

AI 464, Nov. 10, 1902

10.48 L₁N v < 10.8

AI 1817, Dec. 13, 1903

10.48 L₁N v < 10.6

AI 1590, Oct. 30, 1903

10.26 K₁N v < 10.4

AI 774, Feb. 19, 1903

11.24 O₁N v < 11.3

AI 1466, Sept. 29, 1903

9.59 K₁N v < 9.8

AI 1254, July 31, 1903

9.59 L₂N v < 9.8

AI 1860, Dec. 18, 1903

10.48 L₁N v < 10.6

AI 679, Jan. 1903

10.48 L₁N v < 10.6

AI 407, Oct. 21, 1902

10.21 m₁N v < 10.3

AI 786, Feb. 20, 1903

10.21 m₁N v < 10.3

AI 1283, Aug. 13, 1903

10.26 K₁N v < 10.4

AI 422, Oct. 25, 1902

10.26 K₁N v < 10.4

AI 1723, Nov. 25, 1903

10.26 K₁N v < 10.4

AI 1311, Aug. 21, 1903

9.59 L₁N v < 9.7

January 20, 1904 Reduced March 6, 1916
S. F. M.

S. Cassio. Ant.

AI 706, Feb. 6, 1903

10.48 L₁N v < 10.6

AI 428, Oct. 28, 1902

10.48 L₁N v < 10.6

AI 751, Feb. 14, 1903

11.24 O₁N v < 11.3

AI 461, Nov. 8, 1902

Loop

AI 1805, Dec. 11, 1903

9.59 L₁N v < 9.7

AI 1904, Dec. 26, 1903

10.26 K₁N v < 10.4

AI 1682, Nov. 19, 1903

9.59 L₁N v < 9.7

AI 867, March 6, 1903

10.48 L₁N v < 10.6

AI 501, Dec. 1, 1902

9.59 L₁N v < 9.7

AI 1868, Dec. 19, 1903

9.59 L₁N v < 9.7

AI 1635, Nov. 2, 1903

9.59 L₁N v < 9.7

AI 915, March 25, 1903

10.21 m₁N v < 10.3

AI 510, Dec. 5, 1902

10.21 m₁N v < 10.3

January 20, 1904

Reduced March 6, 1916
S.F.M.

S Cassio. Crb.

AI 1876, Dec. 22, 1903

9.59 $K'IN$ $V < 9.7$

AI 1660, Nov. 12, 1903

9.59 $K'IN$ $V < 9.7$

AI 479, Nov. 22, 1902

9.59 $K'IN$ $V < 9.7$

AI 1737, Dec. 15, 1903

9.59 $K'IN$ $V < 9.7$

AI 599, Oct. 31, 1903

10.21 $m'IN$ $V < 10.3$

AI 813, Feb. 25, 1903

11.24 $O'IN$ $V < 11.3$

AI 456, Nov. 23, 1903

10.21 $m'IN$ $V < 10.3$ Edge of plate
Images faint
Obs. difficult

AC 8791, July 28, 1903

11.24 06 γ 11.84 11.88 $V = 11.86$ 02 0211.88 νp 11.98

AC 3660, May 21, 1903

Too poor in reg. of var.

AC 3936, Sept. 14, 1903

Return not yet received

January 24, 1904

Reduced March 6, 1916
S.F.M.

S Cassio. Crb.

AC 264, March 29, 1899

11.24 04 N $V < 11.6$ AC 1799, Sept. 27, 1901
Too poor

AC 674, Jan. 10, 1900

of ν ?Reject, as var. is near limit of
visibility.

Edge of plate

AC 2905, Oct. 17, 1902
Too poorAC 2710, July 31, 1902
12.30 $\gamma'IN$ $V < 12.4$ AC 162, Jan. 18, 1899
12.74 SiN $V < 12.8$

January 21, 1904
Reduced March 7, 1916
20.7 m.

S Caspian. Re-measurement of
certain plates on which original measured
were not according to final sequence on
were incomplete

I 17551, April 15, 1897
13.13 2' 2K V 13.3

I 18002, April 22, 1897
13.13 5' 4V 13.53 V = 13.53?

u. n. 3.

I 21991, Dec. 23, 1898
14.10 4V 14.20 14.40 V = 14.30 10 10

14.40 14.60

Images extremely faint. Obj. very uncertain

x a grade brighter than u

I 20355, March 5, 1898

Another exposure (landscape) on plate
Too much fogged in reg. of obj.

I 15896, Sept. 4, 1896
10.48 22V 10.68 10.74 V = 10.71 0.3 0.3

10.74 V 50 11.24

I 15349, June 22, 1896

* Assumed to be I 11644, as I 11641 does not cover region,
and date, and name agree with I 11644; see margin.

* I 11641, Oct. 14, 1894
11.24 03V 11.54 11.78 V = 11.66 12 12

11.78 11.98

I 9944, Nov. 18, 1893
13.13 2' 4V 13.53 V = 13.76 2.3 24

14.00 14.10

Extreme
Cover of plate

Images very
faint and
poor

January 21, 1904
Reduced March 7, 1916
20.7 m.

S Caspian. Cont.

Extreme
edge of
plate

I 7977, Jan. 27, 1893
11.24 04V 11.64 11.78 V = 11.71 0.1 0.1

11.78 11.98

Images very poor

I 4118, Sept. 1, 1891
10.48 3V 10.78 10.84 V = 10.81 0.3 0.3
10.84 11.24

I 5075, Dec. 11, 1891
12.21 23V 12.61 12.74 12.83 V = 12.73 12 0.1 10

12.74 12.74

12.83 13.13

Very uncertain. Images poor focus of lens, very sharp.

I 7978, Jan. 27, 1893
11.98 11.98 12.00 V = 11.99 0.1, 0.4

12.00 12.30

0 too much brighter to measure

I 7601, Dec. 2, 1892
13.13 2' 1K V < 13.2

I 15349, June 22, 1896
13.13 2' 4V 13.53 14.00 V = 13.76 2.3 24

14.00 14.10

Images poor. Film in poor condition

C 7144, Oct. 20, 1894
10.48 6V 11.08 11.14 V = 11.11 0.5, 0.3
11.14 11.24

January 4, 1904

Reduced, March 7, 1916
S.F.M.

S Cassio. Cont.

C 8743, Jan. 11, 1896
Link - too poorC 7975, July 11, 1895
13.13 54v 13.53 $v = 13.53$?

n.s.

C 7513, Feb. 13, 1895
10.48 66v 11.08 $v = 11.11$ 0.3 0.3
11.14 v10 11.24C 7820, May 7, 1895
12.31 24v 12.71 12.73 $v = 12.72$ 0.1 0.1
12.73 v12 12.74

Images very poor. Image 7 is defective. Dr. uncertain.

C 3918, Sept. 1, 1891

10.48 64v 10.88 11.14 $v = 11.01$ 1.2, 1.3
11.14 v10 11.24

C 3332,

15.01 y1K $v < 15.9$

17.6 v2K

C 7500, Feb. 11, 1895

10.48 64v 10.88 11.14 $v = 11.01$ 1.3, 1.3
11.14 v10 11.24

C 7451, Jan. 23, 1895

10.26 K1v 10.36 10.38 $v = 10.37$ 0.9, 1.0
10.38 v12 10.48

C 6455, Jan. 8, 1894

14.10 u1K $v < 14.2$

January 4, 1904

Reduced March 7, 1916 189
S.F.M.

S Cassio. Cont.

C 3361, Jan. 30, 1891

13.13 53K $v < 13.4$

C 5931, Sept. 2, 1893

13.13 51v 13.23 13.60 $v = 13.42$ 1.7 1.8
13.60 v5u 14.10

C 4001, Sept. 25, 1891

11.24 02v 11.44 11.58 $v = 11.51$ 0.7 0.7

11.58 v4p 11.98

C 5260, Dec. 26, 1892

12.74 55v 13.24 13.13 13.60 $v = 13.48$ 3.2 0.8
13.13 v05 13.13 0.8 1.9 2.8

13.60 v5u 14.10

C 3342,

14.10 u2v 14.30 14.55 $v = 14.42$ 1.2, 1.3

14.55 v0t 14.55

n.s.

Images faint Dr. doubtful v certainly present and as bright as t.

January 23, 1904

Land S. Persei. Estimates of Brightness

I 5362 Jan. 8, 1892

0.1 X

K 0.6

K 2.5

K 2 S

S 0.6

S 2 K

I 11593, Oct. 11, 1894

K 1.7

J 1.0

K 2 S

S 2 L

I 3401, April 9, 1891

K 4.7

J 1.0

K 3 S

S 1 L

I 5142, Dec. 13, 1891

0.2 J

J 1 K

K 1 S

S 1 K

I 9784, Oct. 25, 1893

K 4.7

J 1.0

K 1 S

S 6 m

f 4 K

K 0.9

K 2.5

Edge of
plateExtreme
edge of plate
unusually
faint

K light

January 23, 1904

Land S. Persei. cont.

I 15346, June 22, 1896

K 3.7

J 2.0

K 1.3

S 0.6

S 3 L

I 12831, May 7, 1895

K 1.7

J 1.0

Companion difficult

0.2 S

S 1 K

I 3541, May 3, 1891

Edge of
plate

K 5.4

Comp. uncertain

V 0.0

V 2.0

Too near edge to compare S

I 9338, Aug. 29, 1893

0.2 J

J 0 K

J 2 K

K 3 S

S 3 m

I 12281, Feb. 5, 1895

Too near edge

I 2101, Oct. 30, 1890

K 2.0

J 1.0

Near edge. Other Companion stars in focus
too difficult for comparison

January 23, 1904

Land S. Pucci cont.

New edge I 2101, Oct. 30, 1890
m 38

S 1 m

Obs. of diff. and
mountain. Very
sharp form I 2745, Jan. 8, 1891
L 2 S

J 10

m 4 S

m m. S.

I 13101, July 23, 1895

J 00

J 10'

Other stars not comparable

m 1 S

S 3 m

I 14124, Dec. 20, 1895

S 2 S

J 00'

J 2 K

L 38

S 1 m

I 12632, April 11, 1895

Too poor in exp. of minutes

I 15621, August 7, 1896

L 4 S

J 10

K 1 S

S 2 L

Trails

January 23, 1904

Land S. Pucci cont.

I 10932, March 27, 1894

L 4 S

J 00

J 10'

S 4 S

S 0 K

S 3 L

I 15954, Sept. 15, 1896

L 3 S

J 10

K 2 S

S 2 L

I 28409, Feb. 5, 1902

Too near edge

I 18465, Aug. 6, 1897

L 3 S

J 00

J 10'

L 3 S

S 1 m

I 15976, Sept. 20, 1896

Reg. not on plate

I 17552, March 13, 1897

L 2 S

J 10

K 3 S

S 1 L

January 23, 1904

Land S Pucci Cont.

I 18504, Aug. 12, 1897

Too near edge

I 23567, Sept. 17, 1899

015

70B

71K

L3S

S1m

I 20436, March 5, 1898

K3J

71B

02S

S1K

I 28392, Feb. 3, 1902

K3J

71B

m5S

S1m

I 1901, Sept. 29, 1890

015

72K

m3S

n.m.S.

I 26392, Jan. 1, 1901

015

70B

72K

L2S

S2K

January 23, 1904

Land S Pucci Cont

I 28598, March 25, 1902

K3J

71B

m5S

S1m

I 15969, Sept. 20, 1896

K3J

71B

K1S

S2L

AC 1007, Sept. 19, 1900

Too far

AC 1309, Feb. 28, 1901

Too near edge

AC 664, January 6, 1900

015

70K

71K

n1S

0 n2

Near edge
7

AC 1015, Sept. 24, 1900

02J

70B

71K

K1S

S2L

January 22, 1904

Land S Pucci Ant

AC 2094, Dec. 21, 1901

0'12"

71 K'

n. 1 N (S)

AC 1314, March 2, 1901

Too poor

AC 2003, Nov. 22, 1901

Too near edge

AC 48, Sept. 20, 1898

Too near edge

AC 1303, Feb. 27, 1901

Too near edge for S

K' 1 S

S 10

Near edge - Comp. diff.

AC 2273, Feb. 5, 1902

0'12"

71 K'

n. 1 N (S)

AC 558, Dec. 13, 1899

Too poor

AC 1312, March 1, 1901

Too poor

AC 1294, Feb. 26, 1901

Too poor

AC 1006, Sept. 19, 1900

Too near edge

January 26, 1904

Land S Pucci Ant.

I 30021, Feb. 19, 1903

0'12"

71 K'

02 S

S 2 K

I 29650, Dec. 8, 1902

K' 2 S

72 0

03 0

S 2 K

I 5607, Feb. 10, 1892

Too near edge for S

02 S

S 4 K

I 24111, Nov. 20, 1899

Near
edge of
plate

0'12"

70 K'

21 K

K 2 S

S 1 L

I 24202, Dec. 9, 1899

Near
edge

0'12"

71 K

Comp. diff.

K 2 S

S 2 L

I 29574, Jan. 21, 1903

K' 3 S

71 0

01 S

S 2 K

Jan. 26, 1904

Land S. Pucci ant.

Near edge AC 1877, Oct. 17, 1901

S, V

T, K

~~to H (S)~~

L 2 S

mns.

AC 2221, Jan. 20, 1903

too near from in reg.

AC 2795 Aug. 30, 1902

too from

AC 2500, Sept. 23, 1902

too from

Near edge AC 3014, Nov. 23, 1902

S, V

T, K

K 2 S

S, L

AC 3156, Jan. 10, 1903

too from in reg.

AC 4129, Feb. 29, 1903

too from in reg.

Near edge AC 4275, Nov. 28, 1903

S, V

T, K

K 2 S

S, L

AC 3791, Sept. 4, 1903

too from in reg.

Jan. 26, 1904

Land S. Pucci ant.

AC 4433, Dec. 24, 1903

to S. Pucci

AC
a c e f g h L' K' O O' K' K
l m n o p q

S

x

AC

Sungate

very
from

AC

Near

edge

of plate

Sungate

from

AC

AC

Near

edge

K 3 S

S, L

Jan. 26, 1904

Land S. Pucci ant.

Near edge AC 1877, Oct. 17, 1901

G1J

J1K

~~K2H~~ (S)

K2S

mns.

AC 2221, Jan. 20, 1903

Too faint in reg.

AC 2795 Aug. 30, 1902

Too faint

AC 2500, Sept. 23, 1902

Too faint

Near edge AC 3014, Nov. 23, 1902

G2J

J1B

K2S

S1L

AC 3156, Jan. 10, 1903

Too faint in reg.

AC 4129, Feb. 29, 1903

Too faint in reg.

Near edge AC 4275, Nov. 28, 1903

G1J

J1B

K2S

S1L

AC 3791, Sept. 4, 1903

Too faint in reg.

Jan. 26, 1904

Land S. Pucci ant.

AC 4433, Dec. 24, 1903

Too faint in reg.

AC 3009, Nov. 22, 1902

K3S

J1B

Image of J very hazy

K2S

S2m

AC 3256, Feb. 7, 1903

Too faint in reg.

AC 4139, Oct. 30, 1903

G1J

J1K

K3S

S0L

mns.

Near AC 3107, Dec. 27, 1902

edge

G2J

of plate

Too faint

Image

J1K

faint

K1S

S2L

AC 4102, Oct. 26, 1902

K1J

J1K

Near

edge

K3S

S1L

January 26, 1904

Land S. Persin cont.

AC 3151, Jan. 9, 1902

Too poor in neg.

Near edge
of plate

AC 3095, Dec. 23, 1902

K3S

Too

Too

K1S

Sol

Near edge
of plate

AC 3923, Sept. 24, 1903

Too poor for

K3S

Sol

none

AC 4316, Dec. 6, 1903

Too poor in neg.

AC 3896, Sept. 6, 1903

Too poor in neg.

AC 4440, Dec. 26, 1903

Too poor for

K4S

Sol

none

AC 3150, Jan. 9, 1903

Too poor

AC 3276, Feb. 10, 1903

Too poor

AC 4003, Sept. 28, 1903

K1S

K1K

K1S

K1K

January 26, 1904

Land S. Persin cont.

AC 4317, Dec. 6, 1903

Too poor in neg.

AC 3903, Sept. 11, 1903

K1S

Too

Too

K2K

K1S

Sol

Near
edge

AC 4454, Dec. 28, 1903

K1S

K1K

K1S?

none

Images very poor Obs. difficult

AC 3036, Dec. 3, 1902

Too poor in neg.

AC 3299, Feb. 14, 1903

K1S

Too

Too poor for S

K3S

K1K

AC 4023, Oct. 21, 1903

Too poor in neg.

AC 4321, Dec. 7, 1903

Too poor in neg.

AC 3910, Sept. 8, 1903

Too poor

January 24, 1904

Sand S. Ricci Cont.

AC 4456, Jan. 28, 1903

K1S

ToK

l not up. found

K4S

SOL

m n.s.

AC 3061, Dec. 8, 1902

K3S

T1S

K1S

S3L

AC 3312, Feb. 13, 1903

S1L

T0B-

T1K-

S1S

S8K

AC 4024, Oct. 2, 1903

S1L

T0K

T1K

K2S

l n.s.

AC 4339, Dec. 7, 1903

Too poor in reg.

AC 3913, Sept. 10, 1903

Too poor

Near edge
of plateNear edge
Image from

January 24, 1904

Sand S. Ricci Cont.

AC 4465, Dec. 30, 1903

Too poor in reg.

AC 3070, Dec. 9, 1902

S1L

T1B-

K1S

S2L

AC 3336, Feb. 22, 1903

Too poor for T

S4S

S0K

l n.s.

AC 4035, Oct. 13, 1903

S2L

T0B-

T1K

Very uncertain - Image from

K2S

S2L

Image faint and poor

AC 4345, Dec. 11, 1903

S1L

T1K

L2N (S)

AC 4474, Dec. 31, 1903

Too poor in reg.

AC 3917, Sept. 11, 1903

L2S

T1L

K1S

S3L

Near
edge of
plate
Image
fromedge of
plateedge of
plate

January 26, 1904
Land S Pucci cont.

AC 3075, Dec. 14, 1902

Top

AC 3345, Feb. 23, 1903

01S

1K

03S

1K

AC 4062, Oct. 19, 1903

01S

1K

03S

Sol

on n.s.

AC 4513, Jan. 10, 1903

01S

1K

02S

S3L

AC 4367, Dec. 14, 1903

01S

1K

Focus of band is sharp, but if I diffuse

02S

on n.s.

AC 3924, Sept. 12, 1903

01S

1K

04S

S0K

S4L

Edge of
plate

January 26, 1904
Land S Pucci cont.

AC 3079, Dec. 18, 1902

01S

1K

03S

1K

AC 3376, March 1, 1903

01S

1K

04S

S0K

S3L

AC 3385, March 2, 1903

01S

1K

04S

1K

AC 3070, Dec. 18, 1902

04S

S0K

1K

01S

S2L

AC 3932, Sept. 13, 1903

01S

1K

04S

S0K

S3L

Near
edge

Jan. 26, 1904

Tand R Persei Cont.

AC 4487 Jan 5, 1904

Too poor in reg.

AC 4086, Oct. 22, 1903

Too poor

AC 4373, Dec. 15, 1903

Too poor

AC 4484, Jan. 5, 1904

0.15

7.1K

1.1K (5)

AC 3396, March 6, 1903

Too poor in reg.

AC 4093, Oct. 24, 1903

0.15

7.1K

0.4S

50K

1.1K

AC 3425, March 17, 1903

Too poor

AC 3413, March 12, 1903

Too poor in reg.

AC 3963, Sept. 15, 1903

Too poor in reg.

AC 4477, Jan. 3, 1904

Too poor in reg.

January 27, 1904

Tand S Persei Cont.

AC 3147, Jan. 8, 1903

Too poor in reg.

AC 3746 July 2, 1903

0.15

7.0K

7.4L

0.1S

5.2K

AC 3115, Dec. 30, 1903

0.15

7.10

K 2S

S 2L

AC 3790, July 27, 1903

0.15

7.1K

0.3S

5.1K

AC 3937, Sept. 14, 1903

0.27

7.00

7.1K

0.3S

5.1K

AC 3088, Dec. 20, 1902

0.27

7.00

7.1K

0.4S

5.0K

5.3L

Near
edge -
images
very poor

January 27, 1904

Land S. Perci. cont.

AC 440, Nov. 14, 1903

Too poor in reg.

AC 3747, July 2, 1903

L 5 S

T 0 B

T 1 B

B 1 S

S 4 K

AC 3136, Jan. 1, 1903

B 1 T

T 0 B

T 1 K

K 1 S ?

L not separated from S

AC 3944, Sept. 15, 1903

Too poor in reg.

AC 3172, Jan. 13, 1903

Too poor in reg.

AC 4214, Nov. 15, 1903

B 2 T

T 0 K

T 3 K

K 4 VS

S 3 m

L appears as bright as K, probably on account
of the condition of the film.

AC 3820, Aug. 12, 1903

Too poor in reg.

New edge.
Images poor

January 27, 1904

Land S. Perci. cont.

AC 3145, Jan. 5, 1903

Too poor in reg.

AC 3210, Jan. 23, 1903

B 1 T

T 1 K

K 1 S

S 2 L

Very uncertain. Images much out of focus

AC 3148, Jan. 8, 1903

Too poor in reg.

AC 4426, Dec. 23, 1903

T 2 T K 2 S

T 4 K T 1 L

L 3 S

S 1 m

AC 2953, Oct. 30, 1902

L 4 T

T 0 B

T 1 B

L 2 S

S 1 m

AC 3255, Feb. 7, 1903

Too poor in reg.

AC 3982, Sept. 24, 1903

B 1 T

T 1 K

K 3 S

S 1 L

New
edge -
Images
very poor

New
edge

New edge
of plate

January 27, 1904

Land S. Persic ant.

Edge AC 3163, Jan. 12, 1903

Too poor in reg.

Edge AC 3915, Sept. 23, 1903

Too poor in reg.

Edge of plate AC 4269, Nov. 26, 1903

Too poor in reg.

AC 3887, Sept. 13, 1903

θ 17

53 K

θ brighter than θ

θ 3 V

vok

v3l

Edge of plate AC 3157, Jan. 10, 1903

Too poor in reg.

Near edge AC 4160, Nov. 3, 1903

Too poor in reg.

Near edge AC 3683, Dec. 19, 1902

θ 17

71 θ

K 2 S

S 1 L

AC 3112, Dec. 28, 1902

K 3 V

72 θ

θ 4 TS

SVOK

S 3 L

January 27, 1904

Land S. Persic ant.

Near edge AC 4144, Oct. 31, 1903

Too poor in reg.

Near edge AC 3086, Dec. 29, 1902

Image

θ 17

from

71 θ

Too poor in S.

Near edge AC 4180, Nov. 8, 1903

K 3 V

Image very

from

has bright arc

K 5 S (2)

m n. S.

Near edge AC 3108, Dec. 27, 1902

K 4 S

70 θ

71 θ

θ 2 S

S 2 K

AC 3945, Sept. 16, 1903

θ 17

71 K

θ 5 S

S 0 K*

S 3 L

AC 4395, Dec. 18, 1903

K 1 V

71 K

m 1 S

m n. S.

January 27, 1904

Land S Percii Ant-

AC 3835, Aug. 15, 1903
Too poorNear edge AC 4228, Nov. 19, 1903
K1S

b not sep. from S

K2S

S1L(3)

AC 3183 Jan. 18, 1903

B1S

T1K

K1S

S2L

Obs. difficult

Near edge AC 3239, Feb. 3, 1903

Too poor in reg.

Near edge AC 3948, Sept. 7, 1903

Too poor in reg.

Near edge AC 4259, Nov. 25, 1903

B2K

T0K

T2K

Too poor for S

AC 3849, Aug. 20, 1903

K1S

T0K

T4L

K1S

S3L

January 27, 1904

Land S Percii Ant

Near edge AC 4398, Dec. 18, 1903

B1S

T0B

T1K

m1S

S4m

Near edge AC 3184, Jan. 18, 1903

B1S

T0B

T1K

B4S

S0K

S3L

Near edge AC 3241, Feb. 3, 1903

Too poor in reg.

Near edge AC 3953, Sept. 19, 1903

Too poor

Near edge AC 4261, Nov. 25, 1903

K1S

T0K

T3L

m1S

impossible too poor to compare

Near edge AC 3864, Aug. 24, 1903

Too poor in reg.

Near edge AC 4406, Dec. 17, 1903

B1S

T1K

Too poor for S

January 27, 1904
Tand S Pesci Ant.

Near edge AC 1317, March 6, 1901
Too poor in reg.

Near edge AC 3193, Jan. 19, 1903
01J

100'

11K

K1S

S2L

Near edge AC 3243 Feb. 5, 1903
Too poor in reg.

AC 4262, Nov. 25, 1903

02J

10K

11K

m1S

m n.s.

AC 3881, Sept. 2, 1903

K2J

12L

K1S

S3L

AC 4415, Dec. 22, 1903

K3J

11K

L4S

20m

n n.s.

January 27, 1904
Tand S Pesci Ant.

AC 2957, Nov. 8, 1902

K4J

100'

11K

K3S

S0L

m n.s.

Near edge AC 1357, March 19, 1901
Too poor for J

Images
very poor

K1S

S0L

0 m.s.

Near edge AC 3199, Jan. 2, 1903

02J

100'

11K

Too poor for S

Near edge AC 3257 Feb. 6, 1903

01J

100'

12K

Too poor for S

AC 3959, Sept. 2, 1903

01J

11K

03S

01K

January 28, 1904
Tand S Percei Ant.

Near edge I 10901, March 26, 1894
K⁴ J
J 10

04 S

S 0 K

S 3 L

Near edge AC 564, Dec. 4, 1899 Isosymmetric?
K² J
J 10

K 2 S

S 1 L

Plate Scattered. Image from Obs. diff. (S)
AC 2957, Oct. 31, 1902

02 K²

J 00

J 1 K²

L 1 V

V 3 m

Extremely doubtful. Image faint and poor

Jan. 27, 1904

Tand S Percei Ant.

Remembrance of certain plates, usually, be
cause but one ampere was originally used

Near edge I 2293, Nov. 19, 1890
0¹ J
J 1 K²

K 3 S

S 2 L

I 36, Oct. 10, 1889
K² J
J 10

0 2 S

S 1 K

Near edge I 3270, March 11, 1891
K⁴ J
J 00
J 10

K 2 S

S 2 L

Near edge I 5120, Dec. 12, 1891
0¹ J
J 1 K²

0 3 S

S 1 K

I 5800, March 6, 1892
0¹ J
J 0 K²
J 2 K

K⁴ S

S 0 A

S 4 K

January 27, 1904
Land S. Pesci Ant.

Near edge
Groups faint
and poor

I 6030, April 9, 1892

015

11K

02S

81K

I 5073, Dec. 11, 1891

015

500

11K

02S

81K

I 10844, March 19, 1894

035

110

04S

80K

83L

January 27, 1904
S. Pesci - Measurements for season p. 217

I 10202, Dec. 18, 1892

K2S

81L

I 12765, May 2, 1895

L3V

m. a. s.

I 7475, Nov. 6, 1892

K3V

11L

I 10442, Jan. 19, 1894

04V

00K

03L

I 12081, Dec. 15, 1894

K3V

00L

03m

Near edge I 10757, March 7, 1894

03V

00K

03L

I 5307, Jan. 1, 1892

01V

03K

January 27, 1904

Pucci Remembrance record p. 217

I 1772, Sept. 1, 1890

K³V

V10

I 2856, Jan. 16, 1891

O¹VV10⁻

B 113, Nov. 3, 1885

K¹VV²L

I 2383, Nov. 28, 1890

O¹VV08⁻V1K⁻Near edge
Ok. difficult

I 147, Nov. 17, 1889

O¹VV08⁻

V1K

Comp. diff.
alt

B 2068, Dec. 19, 1887

O¹VV08⁻V0K⁻

V1K

Edge of
plate

B 96, Nov. 2, 1885

K²VV¹L

I 3186, Feb. 24, 1891

O¹VV10⁻

