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H. S. L

Book II

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Reduced March 1, 1916
G.F.M.

January 29, 1896

Continuation of estimates of the brightness of S Cassiopeiae

edge of plate

Plate I 7778 taken Dec. 29, 1892
v n.s.
12.74 — v < 12.8
11.18 s = .1 — v < 11.28
t n.s.

Plate C 5329 taken Jan. 21, 1893
12.30 — 12.50 — 12.44 — 12.47 — 03 — 03
10.84 q 2 v 11.04 — 10.88 = 10.96 — .08 — .08
12.44 — 12.74
10.88 v 3 s 11.18

extreme edge of plate

Plate I 7977 taken Jan. 27, 1893
v 0 0 ? 10.02 ? 0 — v = 11.24?
Images of very different shapes

Plate I 7978 taken Jan. 27, 1893
11.24 — 11.64 — 11.90 — 11.77 — 13 — 13
good measure — 10.02 0 4 v 10.42 — 10.44 = 10.43 — .01 — .01
11.90 — 12.30
10.44 v 4 q 10.84

Plate C 5389 taken Feb. 26, 1893
10.48 — 11.08 — 10.84 — 10.96 — 12 — 12
9.44 l 6 v 10.04 — 9.62 = 9.83 — .21 — .21
10.84 — 11.24
9.62 v 4 0 10.02

Plate C 5390 taken Feb. 26, 1893
10.48 — 10.78 — 10.74 — 10.76 — 02 — 02
9.44 l 3 v 9.74 — 9.52 = 9.63 — .11 — .11
10.74 — 11.24
9.52 v 5 0 10.02

Reduced March 1, 1916
G.F.M.

January 29, 1896

Plate C 5412 taken March 2, 1893
10.48 — 10.68 — 10.54 — 10.62 — 06 — 06
9.44 l 2 v 9.64 — 9.32 = 9.48 — .16 — .16
10.54 — 11.24
9.32 v 7 0 10.02

Plate C 5488 taken April 5, 1893
10.48 — 10.58 — 10.34 — 9.46 — 12 — 12
9.44 l 1 v 9.54 — 9.12 = 9.33 — .21 — .21
10.34 — 11.24
9.12 v 9 0 10.02

Plate C 5870 taken Aug. 13, 1893
12.74 — 12.94
11.18 s 2 v 11.38? — v = 12.94?
t n.s.

Plate C 5931 taken Sept. 2, 1893
12.74 — 13.24 — 13.95 — 13.68 — 36 — 35
11.18 s 5 v 11.68 — 11.77 = 11.72 — .04 — .05
13.95 — 14.55
11.77 v 6 t 12.37

Plate C 5932 taken Sept. 2, 1893
v n.s.
12.74 — v < 13.0
11.18 s = .3 — v < 11.48
t n.s.

Plate C 6010 taken Sept. 22, 1893
v n.s.
12.74 — v < 12.9
11.18 s = .2 — v < 11.38
t n.s.

Plate C 6101 taken Oct. 16, 1893
v n.s.
12.74 — v < 12.9
11.18 s = .2 — v < 11.38
t n.s.

Reduced March 1, 1916
G. F. M.

January 30, 1896.

S Cassiop.

Plate I9735 taken Oct. 21, 1893
v n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.38

Plate I9778 taken Oct. 25, 1893
v n.s.
12.74 v < 12.8
11.18 s = .1 v < 11.28

Plate I9779 taken Oct. 25, 1893
v n.s.
12.74 v < 12.8
11.18 s = .1 v < 11.28

Plate I9782 taken Oct. 25, 1893
v n.s.
12.30 v < 12.4
10.84 q = .1 v < 10.94

Plate I9804 taken Oct. 29, 1893
v n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.28

Plate I9807 taken Oct. 29, 1893
v n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.38

Plate I9943 taken Nov. 18, 1893
v n.s.
12.30 v < 12.4
10.84 q = .1 v < 10.94
s n.s.

Reduced March 1, 1916
G. F. M.

January 30, 1896

Plate I9944 taken Nov. 18, 1893
Images scarcely visible
14.55
v o t ? 12.37? 0 v = 14.55?

Plate C6368 taken Dec. 20, 1893
good plate
14.54
v o x 12.46 v = 14.54

Plate C6455 taken Jan. 8, 1894
v n.s.
12.74 v < 13.1
11.18 s = .4 v < 11.58
t n.s.

Plate C6596 taken Feb. 16, 1894
Images scarcely seen
14.60
v o w ? 12.37? 0 v = 14.60?

Plate C6597 taken Feb. 16, 1894
v n.s.
14.10 v < 14.2
12.07 u = .1 v < 12.17

Plate C6698 taken April 9, 1894
v n.s.
12.74 v < 12.8
11.18 s = .1 v < 11.28
t n.s.

Plate C6768 taken May 8, 1894.
v n.s.
12.30 v < 12.4
10.84 q = .1 v < 10.94

Plate C6882 taken July 3, 1894
v n.s.
12.74 v < 12.9
11.18 s = .2 t n.s. v < 11.38

Reduced, March 1, 1916
H.F.M.

January 30, 1896

Classif. cut

Plate C 6963 taken Aug. 5, 1894
V n. s,
12.74 v < 12.8
11.18 S = .1 V < 11.28

Plate C 7068 taken Sept. 29, 1894
V n. s.
12.30 v < 12.4
10.84 q = .1 V < 10.94

extreme corner

Plate I 11644 taken Oct. 14, 1894
11.98
V o p 10.58 o v = 11.98

Plate C 7144 taken Oct. 20, 1894
10.21 11.11 11.14 11.12 01 02
9.22 m q ~~q~~ V 10.12 9.92 V = 10.02 .10 .10
11.14 11.24
9.92 V 1 o 10.02

Plate C 7222 taken Nov. 12, 1894
9.59 9.79 9.71 9.75 04 04
8.78 h 2 V 8.98 8.72 V = 8.85 .15 .15
9.71 10.21
8.72 V 5 m 9.22

Plate C 7260 taken Nov. 22, 1894
9.59 9.69 9.41 9.55 14 14
8.78 h 1 V 8.88 8.42 V = 8.65 .23 .23
9.41 10.21
8.42 V 8 m 9.22

Plate C 7375 taken Dec. 22, 1894
9.59 9.79 9.61 9.70 09 09
8.78 h 2 V 8.98 8.62 = 8.80 .18 .18
9.61 10.21
8.62 V 6 m 9.22

Plate C 7451 taken Jan. 23, 1895
10.21 10.41 10.54 10.48
9.22 m 2 V 9.42 9.32 V = 9.37 .05 .05
10.54 11.24
9.32 V 7 o 10.02

Reduced, March 1, 1916
H.F.M.

January 30, 1895

Plate C 7500 taken Feb. 11, 1895
10.21 10.91 11.04 v = ~~10.48~~96 ~~05~~
9.22 m 7 V 9.92 9.82 V = 9.87 .05 .05
11.04 11.24
9.82 V 20 10.02 v = 10.98 07 06

Plate C 7513 taken Feb. 13, 1895
10.21 10.91 11.04 v = 10.98 07 06
9.22 m 7 V 9.92 9.82 V = 9.87 .05 .05
11.04 11.24
9.82 V 20 10.02

Plate C 7514 taken Feb. 13, 1895
10.48 10.88 10.94 v = 10.91 03 03
~~m 8 V~~ 9.44 l 4 V 9.84 9.72 V = 9.78 .06 .06
10.94 11.24
9.72 V 3 o 10.02

Plate C 7597 taken March 5, 1895
11.24 11.74 11.58 10.66 08 08
10.02 o 5 V 10.52 10.18 = 10.36 .16 .16
11.58 11.98
10.18 V 4 p 10.58

trails and multiplied images

Plate C 7712 taken April 17, 1895
V n. s.
v < 11.6
p and q n. s. V < 10.42
11.24
10.02 o = .4

Plate C 7790 taken May 2, 1895.
12.74
11.18 S 1 V 12.84 V = 11.28 o
t n. s. v = 12.84?

Two images of each star. Identification not easy

Plate C 7820, taken May 7, 1895
12.74
V o s 11.18 v = 12.74

Reduced March 1, 1916
H.F.M.

January 30, 1896.

S Cassiop, cont.

Plate C 7975 taken July 11, 1895
r < .1
v = 13.04?
t, u, w, n.s. v = 11.48?
12.74
11.18 s = .4

Plate C 8085 taken Aug. 2, 1895
r n.s.
v < 13.21
t n.s. v < 11.68
12.74
11.18 s = .5

Plate C 8138 taken Aug. 16, 1895
r n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.38
t n.s.

Plate C 8139 taken Aug. 16, 1895
r n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.38

Plate C 8161 taken Aug. 21, 1895
12.74 r n.s. v < 12.9
11.18 s = .2 v < 11.38

Plate C 8162 taken Aug. 21, 1895
r n.s.
12.74 v < 12.9
11.18 s = .2 v < 11.38

Plate C 8198 taken Aug. 30, 1895
10.48 r n.s. v < 10.~~48~~ 5 6
9.44 l = .1 v < 9.54

Reduced March 1, 1916
H.F.M.

January 30, 1896

Plate C 8226 taken Sept. 3, 1895
10.48 r n.s. v < 10.5 6
9.44 l = .1 v < 9.54

Plate C 8272 taken Sept. 13, 1895
r n.s.
14.10 v < 14.3
12.07 u = .2 v < 12.27

Plate C 8252 taken Sept. 15, 1895
12.74 r n.s. v < 12.8
11.18 s < .1 v < 11.28
t n.s.

Plate I 13559 taken Sept. 30, 1895
r n.s.
14.10 v < 14.2
12.07 ~~s~~ u = .1 v < 12.17

Plate I 13586 taken Oct. 1, 1895
r n.s.
14.10 v < 14.2
12.07 u = .1 v < 12.17

Plate I 13631 taken Oct. 2, 1895
12.74 r n.s. v < 13.0
11.18 s = .3 v < 11.48

Plate C 8339 taken Oct. 6, 1895
14.54 r n.s. v < 14.7
12.46 x = .2 v < 12.66
14.60 w = .1

Reduced March 1, 1916
G.F.M.

January 30, 1896

Classif. Cat

Plate C 8351 taken Oct. 8, 1895

V n.s. v < 14.2
14.10
12.07 u = .1 V < 12.17

Plate C 8465 taken Nov. 6, 1895

V n.s. v < 14.6
14.60
12.37 w = < .1 V < 12.37

Plate C 8469 taken Nov. 11, 1895

V n.s. v < 14.6
14.60
12.37 w = .1 V < 12.47

Plate C 8593 taken Dec. 16, 1895

V n.s. v < 14.2
14.10
12.37 u = .1 V < 12.47

Plate C 8694 taken Dec. 31, 1895

V n.s. v < 14.2
14.10
12.37 u = .1 V < 12.47

For later plates see III page 28

January 30, 1896.

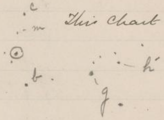
Superseded. see page 16

Measurements of brightness of comparison stars to S Cassiopeiae repeated from Page 199 with the addition of plate I 144.

Plate I 144 taken Nov. 16, 1889.

a	3.5	3.8	
b	4.6	4.9	
c	4.7	5.0	
~~d~~			
e	5.0 ~~5.3~~	5.3	toward edge - poor image
f	4.7	5.0	" " " "
g	4.1	4.4	
k	6.0	6.2	
l	6.1	6.4	
m	5.8	6.1	
n		7.7	
o		7.0	
p		7.~~4~~6	
q		7.8	
r		7.8	
s		8.0	
t		9.5	
u		9.0	
w		9.4:	
x		hidden in trail of V	
y		n.s.	
V	6.0	6.3	
L'	5.7	6.0	

Best of the I plates, in spite of trails



This chart superseded see p. 22

January 30, 1896

S Cassiop. Cont

Plate I 3309 taken March 25, 1891

α	4.~~9~~8	5.1	These measures superseded
b	5.2	5.5	
c	5.1	5.4	
ε	6.3	6.6	much elongated toward side
f	6.2	6.5	" " " "
g	5.7	6.0	
h	6.8	7.1	very poor image
k	.	7.9	much elongated
l		8.1	" "
m		7.8	" "
n		9.0?	" "
o		8.5	
p		9.0	
q		9.2	Image blurred
r		9.4	" "
s		9.9?	" "
t		n.s.	
u		n.s.	
w		n.s.	
x		n.s.	
v		n.s.	

January 30, 1896

Plate I 5075 taken Dec. 11, 1891

α	5.7	6.0	These measures superseded
b	5.9	6.2	
c	6.0	6.3	
ε	7.0	7.3	
f	6.6	6.9	
g	6.5	6.8	
h		7.5	
k		8.0	
l		8.2	
m		8.0	
n		9.4?	
o		8.7	
p		9.2	
q		9.5	
r		9.7	
s		10.0?	Image blurred
t		n.s.	
u		n.s.	
w		n.s.	
v		9.7	

January 31, 1896

S Cassiop. cont

Plate I 9779 taken Oct. 25, 1893

a	5.6	5.9	These measures superseded
b	6.0	6.3	
c	6.1	6.4	
e	6.8	7.0	
f	6.4	6.7	
g	6.7	6.9	
h		7.7	
k		8.1?	Image blurred
l		8.3?	" "
m		8.0	" "
n		9.4	" "
o		9.0	" "
p		9.5	" "
q		9.8?	" "
r		9.9?	" "
s		10.0?	" "
t		n.s.	
u		n.s.	
v		n.s.	

January 31, 1896.

Plate I 13586 taken Oct. 1, 1895

a	5.8	6.1	These measures superseded
b	6.0	6.3	
c	6.0	6.3	
e	6.7	6.9	
f	6.4	6.7	
g	6.3	6.6	
h		7.3	
k		7.8	
l		7.9	
m		7.7	
n		8.9?	Image blurred
o		8.0?	" "
p		8.7?	
q		9.0?	
r		9.0?	
s		9.4?	
t		n.s.	
u		n.s.	
v		n.s.	

Images hard to measure because they are so much rounder than scale images)

February 1, 1896

Measures of Comparison Stars to S Cassiopeiae repeated, taking account of density, as well as diameter of images.

Plate I 144 taken Nov. 16, 1889

a	$\overset{3}{4}$.7	4.0	
b	4.4	4.7	
c	4.7	5.0	
e	5.4	5.7	
f	5.0	5.3	
g	4.7	5.0	image much blurred Unquestionably much brighter than f Dec. 9, 1903
h	5.4	5.7	
k	5.9	6.2	
l	6.0	6.3	
m	5.8	6.1	
n		7.7	
o		6.8	
p		7.6	
q		7.8	
r		7.9	
s		8.1	
t		9.7	
u		9.3	Suspended (s–v)
w		9.7	
x	Hidden in trail of v		
v		6.5	
y		10.4?	

Meas. May 4, '96 d 5.4 5.7 h 6.2 6.6 a 4.3

Long trails - Images rather blurred

Feb. 1, 1896

Plate I 3309 taken March 25, 1891

a	4.9	5.1	This plate Not used in Reduction of Magnitudes
b	5.3	5.6	
c	5.2	5.5	
d			
e	6.1	6.4	image much elongated
f	5.9	6.1	" " "
g	5.8	6.1	
h		7.6	image much blurred and elongated
k		7.9	
l		8.3	
m		8.0	
n		9.1	
o		8.7	
p		9.2	
q		9.4	
r		9.6	
s		9.8	
t		n.s.	
u		n.s.	
w		n.s.	
v		n.s.	

~~Meas. Aug 6, '96~~ d

February 1, 1896

S Cassiop. cont.

Plate I 5075 taken Dec. 11, 1891

	a	5.6	6.0
	b	6.0	6.4
	c	6.2	6.5
	e	6.8	7.1
	f	6.5	6.8
	g	6.7	7.0
	h		7.7
	k		8.0
	l		8.2
	m		8.0
	n		9.5
	o		8.8
	p		9.2
	q		9.6
	r		9.8
Suspended	s		10.0
	t		n.s.
	u		n.s.
Meas. May 6, '96	V		
" " "	d		7.7
" " "	h		8.2
" " "	a	5.6	5.9

February 1, 1896.

Plate I 9779 taken Oct. 25, 1893

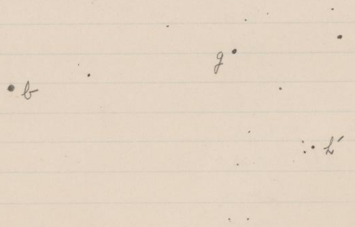
	a	5.9	6.2
	b	6.2	6.5
	c	6.2	6.5
	e	7.0	7.3
	f	6.6	6.9
	g	6.7	7.0
	h		7.8
	k		8.3
	l		8.4
	m		8.1
	n		9.5
	o		9.0
	p		9.6
	q		9.8
	r		9.8
Suspended	s		10.0
	t		n.s.
	v		n.s.
	u		n.s.
Meas May 6, '96	d		7.7
" " "	h		8.1
" " "	a	5.6	5.9

February 1, 1896

S Cassiop. Cont.

Plate I 13586 taken Oct. 1, 1895

	a	5.7	6.0
	b	6.0	6.4
	c	6.0	6.5
	e	6.8	7.1
	f	6.4	6.7
	g	6.6	6.9
	h		7.5
	k		7.9
	l		8.0
	m		7.9
	n		8.9
	o		8.6
	p		9.0
	q		9.2
	r		9.3
	s		9.6
	t		n.s.
	u		10.2?
	v		n.s.
Meas May 6, 1896	d		7.4
" "	h		8.1
" "	a	~~6~~ 5.5	~~6~~ 5.8



Note – The images of a, d and h are so far from the field that they are on none of the C plates and the discordance in their measurements is no greater than was to be expected.

February 1, 1896

Plate C 6368 taken Dec. 20, 1893

Superseded
See Vol. 3 page 127

a	4.4	3.9
b	5.0	4.5
c	(5.2)	4.7
~~d~~	Not on plate	
e	6.0	5.5
f	5.7	5.2
g	5.6	5.1
h	6.4	5.9
k	6.9	6.4
l	7.0	6.5
m	6.9	6.4
n		8.0
o		7.0
p		7.7
q		8.1
r		8.3
s		8.4
t		9.2?
u		9.0
w		9.2
x		9.5
y		10.0?
v		9.7?

February 1, 1896

S Cassiop. cont

Plate C 6455 taken Jan. 8, 1894

a	4.8	4.3	Superseded - See Vol 3 p 127 ff
b	5.8	5.3	
c	5.8	5.3	
d			
e	65?	6.0?	extreme edge
f	not on plate		
g	6.0	5.5	
h	68	6.3	
k	~~7.0~~	7.0	
l	8	7.2	
m		6.9	
n		8.3	
o		7.8	
p		8.3	
q		8.5	
r		8.5	
s		8.9	
t		n.s.	
u		10.0?	

February 1, 1896

Plate C 7144 taken Oct. 20, 1894

a	4.9	4.4	Superseded. See Vol 3 p.127 ff
b	5.6	5.1	
c	5.6	5.1	
d			
e	6.6 ?	6.1?	extreme edge of plate
f			not on plate
g	5.7	5.2	
h	6.4	5.9	
k	~~6.7~~	6.7	
l	~~6.9~~	6.9	
m	~~6.5~~	6.5	
n		8.0	
o		7.5	
p		8.1	
q		8.4	
r		8.5	
s		8.8	
t		n.s.	
u		n.s.	
v		7.6	

February 1, 1896

S Cassiop. cont

Plate C 7451 taken Jan. 23, 1895

a	5.8	5.3	
b	6.3	5.8	Superseded
c	6.3	5.8	
d			
e		not on plate	
f		" " "	
g	6.6	6.1	
h	7.2	6.7	
k		7.2	
l		7.~~2~~4	
m		7.2	
n		8.6	
o		8.0	
p		8.6	
q		8.7	
r		8.7	
s		9.1	
t		n.s.	
u		n.s.	
v		7.3	

Feb. 1, 1896

Plate C 8161 taken Aug. 21, 1895

a	5.0	4.5	
b	5.8	5.3	Superseded
c	5.9	5.4	
e	6.5	6.0	
f	6.1	5.6	
g	6.0	5.5	
h	6.7	6.2	
k		6.8	
l		7.0	
m		6.8	
n		8.2	
o		7.6	
p		8.3	
q		8.6	
r		8.6	
s		9.0	
t		n.s.	
u		n.s.	
v		n.s.	

February 1, 1896

S Cassiop. cont

Plate C 8339 taken Oct. 6, 1895

a	5.0	4.5	
b	5.9	5.4	Superseded
c	6.0	5.5	
e	6.4	? 5.9?	extreme edge
f			not on plate
g	6.0	5.5	
h	6.7	6.2	
k		6.6	
l		6.~~5~~7	
m		6.5	
n		7.9	
o		7.5	
p		7.9	
q		8.2	
r		8.3	
s		8.6	
t		9.7?	
u		9.5?	
v		9.7?	
x		9.6?	
y		n.S.	

February 1, 1896

Plate C 8694 taken Dec. 31, 1895

a	5.9	5.4	
b	6.3	5.8	Superseded
c	6.4	5.9	
e		not on plate	
f		" " "	
g	6.6	6.1	
h		6.8	
k		7.7	
l		7.7	
m		7.5	
n		8.6	
o		8.0	
p		8.6	
q		8.9	
r		~~9.0~~ 8.8	
s		9.1	
t		n.S.	
u		10.0?	

February 4, 1896

Continuation of estimates of S Cephei from previous volume p. 153

Plate C 8648 taken Dec. 20, 1895
v n.s. v < 11.00

10.80 m = .2
Plate C 8669 taken Dec. 22, 1895
v n.s. v < 11.94

11.64 q = .3
April 2, 1896 Plate C 8796 taken Jan. 30, 1896
v n.s. v < 11.74

11.64 q = .1
" " Plate C 8869 taken Feb. 20, 1896
v n.s. v < 11.00

10.80 m = .2
" " Plate C 8898 taken Feb. 24, 1896
v n.s. v < 11.26

10.96 n = .3
Plate C 8899 taken Feb. 24, 1896
v n.s. v < 11.26

10.96 n = .3
Plate I 14409 taken Jan. 30, 1896
v o p' ? —

A very doubtful observation. What I have taken for V may be a defect in the plate

Plate I 14738 taken March 27, 1896
v n.s.

q = .2

Continued III p 135

Feb. 5, 1896.

Annie J. Cannon Obs.

Estimates of the brightness of comparison stars to S Cygni.

Plate I 141, Taken Nov. 16. 1889.

a	4.7
b	5.5
c	5.4
d	~~4~~5.6
e	5.4
f	6.1
g	5.4
h	7.2
k	6.6
l	6.9
m	7.2
n	7.9
o	7.3
p	7.8
q	8.2
r	8.4
s	8.5
t	8.9 Image blurred.
Ft. star	8.2

Feb. 5. 1896.

A. J. C.

Plate I 9148 taken Aug. 9. 1893.

a	6.1
b	7.1
c	7.
d	7.2
e	7.1
f	7.9
g	6.8
h	8.9
k	7.8
l	8.4
m	8.3
n	
o	8.9
p	9.9
q	10.
r	9.6
s	Not on plate?
t	" " "
St. star	9.8
v	9.5

These measurements were made by mistake on Plate I 11835.

Feb. 5. 1896.

A. J. C.

Plate I 11835 taken Nov. 11. 1894

Feb. 5, 1896.

A. J. C.

Plate I 13553 Taken Sept. 30, 1895

a	5.3
b	6. Image elongated
c	6.1
d	6.1
e	6.2
f	6.8
g	6.4.
h	8.3
k	7.2 ~~6.9~~
l	7.3
m	7.8
n	8. Blurred and indistinct.
o	7.6
p	8.1
q	Too much blurred to measure
r	9.
s	Blurred.
t	9.9
Ft. star	9.
v	8.8

Feb. 6. 1896.

A. J. C.

Plate I 141 Taken Nov. 16. 1889.

a	4.8
b	5.7
c	5.5
d	5.6
e	5.5
f	6.6
g	5.9
h	8.0
k	7.7
l	6.9
m	$7.\overset{3-}{8}$
n	8.1
o	7.6
p	8.1
q	8.8
r	8.9
s	8.6
t	9.9 Image not circular
Ft. star	8.4

Feb. 6. 1896.

A.J.C.

Plate I 9148 taken Aug 9. 1893.

a	6.2	
b	7.4	Image elongated
c	7.3	
d	7.5	Image elongated
e	7.6	
f.	8.3	
g	7.7	
h	9.1	
k	8.6	
l	8.5	
m	8.6	
n	9.8	
o	8.9	
p	9.5	very indistinct
q	n.S.	{An imperfection of the film blots out stars
r	n.S.	{ in this neighborhood
s	n.S.	
t	n.S	
Faint Star	n.S.	

Feb. 6. 1896.

A.J.C.

Plate I. 11835 taken Nov. 11. 1894.

a	5.1	
b	6.9	Image elongated & hard to measure.
c	7.00	
d	6.9	
e	7.1	
f	7.9	
g	7.2	
h	9.5	Image indistinct
k	8.4	
l	8.5	
m	8.5	
n	9.9	Very indistinct
o	9.1	
p	9.3	
q	9.8	Blurred
r	10.0	
s	~~10.3~~ n.S	
t	10.3?	
Faint Star	10.	
v	10.	

Feb. 6. 1896.

A.J.C.

Plate I 13553 taken Sept. 30. 1895

a	5.8	
b	7.1	Image elongated.
c	6.8	
d	6.9	
e	6.9	
f	7.7	
g	6.8	
h	8.9	
k	7.7	
l	7.8	
m	8.3	
n	9.5	Indistinct
o	8.1	
p	9.0	
q	9.4	Indistinct
r	9.5	"
s	10.0 ?	
t	n.s.	
Fl. star	9.8	
v	9.0	

Feb. 6. 1896. A.J.C.

Plate I 141 taken Sept. 16. 1889.

Remeasured because in former measurements no account was taken of the difference in upper and lower scale

a.	4.8	5.1	
b	5.7	6.1	
c	5.3	5.8	
d	5.8	6.3	
e	5.6	5.9	
f	6.2	6.6	
g	5.5	5.8	
h	7.5	7.8	
k	6.8	7.1	
l	6.9	7.2	
m	7.0	7.3	
n	7.9	8.2	
o	7.5	7.8	
p	7.7	7.9	
q		8.2	
r		8.5	
s		8.9	
t		9.2	Image distorted
Fl. star		8.1	

Feb. 6. 1896.

A.J.C.

Plate I 9148 Taken Aug. 9, 1893.

a	5.9	6.2	
b	7.1	7.4	
c	6.8	7.1	Image not circular, but square.
d	7.2	7.5	
e	6.9.	7.2	
f	7.8	8.1	
g	7.1	7.3	
h		8.8	
k	7.9	8.2	
l	8.1	8.4	
m		8.7	
n		9.9	
o		8.9	
p		9.9	very indistinct
q	Not seen because of blur on the plate.		
r	" " " " " " "		
s	10.0 very indistinct		
t	n.S.		
Ft. star	N.S.		

Feb. 8. 1896

A.J.C.

Plate I 11835 Taken Nov. 11, 1894.

a	5.~~7~~ 8	6.1	
b	6.8	7.1	
c	6.4	6.7	
d	6.9	7.2	
e	6.7	7.1	
f	7.5	7.8	
g	6.9	7.2	
h	~~9.2~~	9.3	
k		8.8	
l	8.0	8.3	
m	7.9	8.1	
n		9.4	Indistinct
o		8.7	
p		9.0	
q		9.9	very indistinct
r		9.8	" "
s	not seen.		
t	" "		
Ft. star	9.5		
v	9.6		

Feb. 8. 1896

A.J.C.

Plate I 13553 taken Sept. 30, 1895.

a	5.6	5.9	
b	6.2	6.5	
c	6.1	6.4	
d	6.3	6.5	
ε	6.5	6.8	
f	7.1	7.4	
g	6.8	7.1	
h		8.3	
k	7.1	7.4	
l	7.7	8.0	
m	7.9	8.2	
n		9.4	
o		8.1	
p		8.8	
q		9.2	very indistinct
r		9.2	
s		9.7	
t		Not seen	
Ft. star		8.9	
v		8.8	

Feb. 8. 1896.

A.J.C.

Plate C 6097, taken Oct. 16, 1893.

a	5.6	5.3
b	6.4	6.1
c	5.8	5.5
d	6.5	6.2
ε	6.3	6.0
f		7.1
g	6.7	6.4
h		8.4
k		7.5
l		7.4
m		7.9
n		8.9
o		8.0
p		8.8
q		9.5 ~~8.1~~
r		9.3
s		9.5
t		Not seen.
Ft. star		8.9
v		7.5

Feb. 8. 1896.

A.J.C.

Plate C 6363, taken Dec. 20, 1893.

a	5.9	5.6
b	6.5	6.1
c	6.4	6.2
d	6.6	6.2
e	6.3	6.0
f	7.3	7.0
g	6.6	6.3
h		7.9
k		6.9
l		7.0
m		7.2
n		8.1
o		7.7
p		8.2
q		8.7
r		8.7
s		8.2
t		not seen
Ft. star		8.1
v		8.2

Feb. 8. 1896.

A.J.C.

Plate C 6718 taken April 25, 1894.

a	5.8	5.5
b	6.5	6.2
c	6.6	6.3
d	6.7	6.4
e	6.8	6.5
f		7.4
g	6.9	6.6
h		8.7
k		7.5
l		7.4
m		7.6
n		not seen
o		8.3
p		Not seen
q		not seen
r		" "
s		9.0
t		not seen
Ft. star		not seen

Feb. 8. 1896.

A.J.C.

Plate C 7970, taken July 11, 1895.

a	6.5	6.2
b	7.0	6.7
c	6.7	6.5
d	7.2	6.9
e	7. ~~3~~ 1	~~7.0~~ 6.8
f		7.7
g	6.9	6.7
h		8.8
k	7.7	7.4
l		7.5
m		7.4
n		8.6
o		8.2
p		8.9
q		~~not seen~~ 9.9
r		" "
s		~~8.8~~ not seen ?
t		" "
Ft. star		9.4 "
v		8.1

Feb. 8. 1896.

A.J.C.

Plate C 8123. taken Aug. 14. 1895.

a	6.4	6.0
b		6.8
c	7.0	6.7
d	7.2	6.9
e	7.1	6.8
f		7.9
g	7.0	6.7
h		8.5
k		7.7
l		7.6
m		7.6
n		9.5
o		8.3
p		8.9 ?
q		Not seen
r		10.0?
s		Not seen
t		" "
Ft. Star		" "
v		7.5

Feb. 8. 1896.

a.J.C. Obs

Plate C 8153, taken Aug. 19. 1895

a	5.6	5.3
b	6.3	6.0
c	6.2	5.8
d	6.4	6.0
ε	6.5	6.2
f		6.9
g	6. 3	6.0
h		8.4
k		7.1
l		7.0
m		7.3
n		8.5
o		8.1
p		8.9
q		Too indistinct to measure
r		9.5
s		Not seen
t		" "
Ft. star		8.9
v		7.2

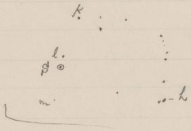
February 10, 1896

H.S.L. Obs

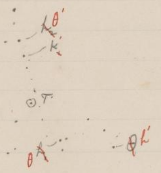
Measures of brightness of comparison stars to τ and ν Persei. (O.C. Wendell's comparison stars).

Plate I 67 taken Oct. 18, 1889

a	6.0	6.3
b	5.3	5.6
c	6.2	6.5
d	5.9	6.3
δ	4.8	5.1
e	6.2	6.5
ε	5.7	6.0
f	6.2	6.5
g	6.9	7.2
h	6.8	7.0
k		7.9
l		8.2
m		8.7
n		9.1
o		9.6
p		9.8
q		9.7
r		
v		7.5
S		7.6



reversed film side



Feb. 14

h″ 7.4
θ h′ 7.8 ^{0} wrong star first
~~h~~ θ 7.5
~~k~~ θ′ 7.7
k′ 7.8

February 10, 1896

T + S Persei

Plate I 2853 taken Jan. 16, 1891

Images very circular

b measured first

a	6.7	7.0
b	5.9 ~~6.6~~	6.3 ~~6.8~~
c	6.8	7.0
d	6.6	6.8
δ	5.9	5.9 ~~6.2~~
l	6.9	7.2
ε	6.5	6.8
f	7.0	7.3
g		7.9
h		7.9
k		8.4
l		8.7
m		9.0
n		9.7
o		9.9
p		n.s.
q		10.2?
r		8.1
S		9.2

Feb. 14

h″	8.2
θ h′	8.0
h θ	8.2
k'_x	8.5
h_2 θ′	8.4

February 10, 1896

Plate I 5073 taken December 11, 1891

This plate not included in ledger.

a	6.7	7.0
b	5.4	5.7
c	6.7	7.0
d	6.3	6.6
δ	5.0	5.3
l	6.7	7.0
ε	6.2	6.5
f	6.8	7.1
g		7.8
h		7.8
k		8.7
l		9.0
m		9.2
n		9.7
o		n.s. (There may be a defect in plate here)
p		10.0
q		9.9
r		~~9.5~~ 9.7
S		9.7

Feb. 14

h″ ~~h′ θ~~	8.3
h′ ~~θ~~	8.0 Images poor
θ ~~h~~	8.5
θ′ ~~h_2~~	8.7
k'_x	8.9

February 10, 1896

T & S Persei cont.

Plate I 7570 taken Nov. 21, 1892

a	6.1	6.4
b	5.6	5.9
c	6.2	6.5
d	6.1	6.4
δ	5.1	5.4
e	6.2	6.6
ε	5.8	6.1
f	6.3	6.6
g	7.0	7.3
h	7.0	7.3
k		8.0
l		8.4
m		8.9
n		9.3
o		9.8
p		10.2
q		10.2
T		7.9
S		8.8

Feb. 14

h''	7.7
θ h'	7.5
h θ	7.8
h θ'	7.8
k'	7.9

Feb. 10, 1896

Plate I 7773 taken Dec. 29, 1892,

a	6.7	7.0	
b	5.9	6.2	
c	6.8	7.0	
d	6.5	6.8	
δ	5.7	6.0	
e	6.7	7.0	
ε	6.3	6.6	
f	6.8	~~7.6~~ 7.1	g measured first
g		7.6	
h		7.7	
k		8.2	
l		8.6	
m		8.9	
n		9.3	
o		9.5	
p		9.7	
q		9.9	
T		8.0	
S		9.0	

Feb. 14

h'' h'	7.8	
h' θ	7.7	
θ h	7.9	G
θ' h	7.9	A
k'	8.0	

February 10, 1896

T & S Persei out

Plate C 4465 taken Feb, 17, 1892

Superseded

See Vol. III pp 131-134

a	6.1	5.6	
b			not on plate
c	6.3	5.8	
d	5.4	4.9	
δ			not on plate
e	6.3	5.8	
ε	6.0	5.5	
f	6.5	6.0	
g	6.8	6.3	
h	6.8	6.3	
k		7.0	
l		7.6	
m		8.0	
n		8.7	
o		9.0	
p		9.5?	
q		9.3	
T		7.0	
S	7.0	6.5	

Feb 14 '96

h″	7.0	6.5
θ ~~h_1~~		6.7
θ′ ~~h_2~~		6.9
k'_1		7.1
k′ ~~θ~~		6.3

February 10, 1896

Plate C 4474 taken Feb. 18, 1892

Superseded

a	6.6	6.1
b	5.9	5.4
c	6.7	6.2
d	6.6	6.1
δ	5.5	5.0
e	6.7	6.2
ε	6.4	5.9
f	6.9	6.4
g		7.0
h		7.0
k		7.6
l		8.0
m		8.3
n		8.9
o		9.4?
p		9.5?
q		9.4?
T		7.6
S		7.5

Feb. 14

h″	7.2
k′ ~~θ~~	7.0
θ ~~h_1~~	7.3
θ′ ~~h_2~~	7.5
k'_1	7.7

February 10, 1896

For S Persei cont

Plate C 5872 taken Aug. 13, 1893

a	5.9	5.4	
b	5.0	4.5	..These measures superseded
c	5.9	5.4	
d	~~4~~5.8	5.3	
δ	4.7	4.2	
e	5.9	5.4	
f	~~5~~6.0	5.5	
g	6.5	6.0	
h	6.6	6.1	
k		6.9	
l		7.6	
m		8.3	
n		9.1	
o		9.6 ?	
p		n.s.	
q		n.s.	
r		7.1	
s		8.1	
ε	5.7	5.2	

Feb. 14 '96

h''		6.~~4~~6
h' ~~θ~~		6.3
θ ~~k_1~~		6.8
θ' ~~k_2~~		7.0
k'_x		7.3

February 10, 1896

Plate C 6103 taken Oct. 16, 1893

a	6.4	5.9	
b	~~5.5~~ ..	5.0 ...	These measures superseded
c	6.5	6.0	
d			not on plate
δ			not on plate
e	6.4	5.9	
ε	6.0	5.5	
f	6.7	6.2	
g		6.5	
h		6.6	
k		7.6	
l		8.0	
m		8.4	
n		9.0	
o		9.6 ?	
p		10.0 ?	
q		9.9 ?	
r		7.2	
s		8.1	

Feb. 14 '96

h''		7.1
h' ~~θ~~		6.9
θ ~~k_1~~		7.5
θ' ~~k_2~~		7.7
k'_x		7.8

February 11, 1896

To S Persei cont

Plate b 6589 taken Feb. 16, 1894

	a	6.3	5.8	
	b	5.7	5.2	These measures superseded
	c	6.4	5.9	
	d	~~5.1~~		not on plate
	δ	5.1	4.6	
	e	6.4	5.9	
	ε	6.2	5.7	
	f	6.6	6.1	
	g	7.0	6.5	
	h	7.0	6.6	
	k		7.3	
	l		7.6	
	m		8.8	
	n		8.7	
	o		8.9	
	p		9.3?	
	q		9.0	
	r		6.9	
	s		7.3	
Feb. 14				
h''	~~h'~~		6.8	
h'	~~θ~~		6.7	
θ	~~h~~		7.0	
θ'	~~h~~		7.0	
	k'		7.2	

February 11, 1896

Pl B C taken 5, 1895

	a	6.		
	b	6.		used
	c	6.		
	d			te
	δ			te
	e	6.8		
	ε	6.6		
	f			
	g			
	h			
	k			
	l			
	m			
	n			
	o			
	p			
	q			
	r			
	s			
Feb. 14				
	h''			
h'	~~θ~~			
θ	~~h~~		7.6	
θ'	~~h~~		7.8	
k'	~~k~~		8.0	

Why is the H_δ line in solar spectrum so much more conspicuous than the other H lines?

Why is ~~narrow~~ metallic line beyond (narrow in Sirius) broadened out to equality

Plate 17 How identified?
Are the lines hydrogen, dispersion being different from these plates?

What is the double line in β Orionis between H_β + H_γ $\frac{2}{3}$ toward H_γ

Why will not spectrum of β Orionis on plate 415 identify with that on plates 989 and 988?

February 11, 1896

T. S. Persei cont

Plate C 6589 ~~taken~~ Feb. 16, 1894

a	6.3	5.8	
b	5.7	5.2	These measures superseded
c	6.4	5.9	
d	~~5.1~~		not on plate
δ	5.1	4.6	
e	6.4	5.9	
ε	6.2	5.7	
f	6.6	6.1	
g	7.0	6.5	
h	7.0	6.6	
k		7.3	
l		7.6	
m		8.8	
n		8.7	
o		8.9	
p		9.3?	
q		9.0	
r		6.9	
s		7.3	

Feb. 14

L⁻	~~λ⁻~~	6.8
L	~~θ~~	6.7
θ	~~L~~	7.0
θ⁻	~~λ~~	7.0
	~~k⁻~~	7.2

February 11, 1896

Plate ~~B~~ C 8097 ~~taken~~ Aug. 5, 1895

a	6.
b	6.
c	6.
d	
δ	
e	6.8
ε	6.6
f	
g	
h	
k	
l	
m	
n	
o	
p	
q	
r	
s	

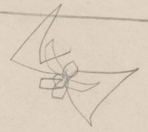
…uded

…te

…te

γ Argus R.A. 8h 6.5 Dec −47 2

AGC	8631	6h 50.0	−23° 48′
AGC	14626	10 37.4	−59° 9′
AGC	17840	13 1.7	−64 46



DM.	+30° 3639	19 30.9	+30 19
DM	+35° 3953	20 2.2	+35 31
DM	+37° 3821	20 8.4	+38 3

v Monocerotis?

~~4~~07? (Plate 24)

Feb. 14

	L⁻	
L′	~~θ~~	
θ	~~λ~~	7.0
θ′	~~λ~~	7.8
K′	~~k~~	8.0

February 11, 1896

T & S Persei cont

Plate C 6589 taken Feb. 16, 1894

a	6.3	5.8	
b	5.7	5.2	These measures superseded
c	6.4	5.9	
d	~~5.1~~		not on plate
δ	5.1	4.6	
e	6.4	5.9	
ε	6.2	5.7	
f	6.6	6.1	
g	7.0	6.5	
h	7.0	6.6	
k		7.3	
l		7.6	
m		8.8	
n		8.7	
o		8.9	
p		9.3?	
q		9.0	
r		6.9	
s		7.3	

Feb. 14

h′ ~~k′~~		6.8	
h′ ~~θ~~		6.7	
θ ~~h~~		7.0	
θ′ ~~h₂~~		7.0	
k′		7.2	

February 11, 1896

Plate ~~B~~ C 8097 ~~taken~~ Aug. 5, 1895

a	6.8	6.4	
b	6.3	5.8	These measures superseded
c	6.9	6.4	
d			not on plate
~~δ~~			not on plate
e	6.8	6.3	
ε	6.6	6.1	
f		6.7	
g		7.0	
h		7.0	
k		7.8	
l		8.0	
m		8.3	
n		8.9	
o		9.2?	
p		9.5-?	
q		9.0?	
~~k~~			
r		7.6	
s		8.6	

Feb. 14

h″		7.2	
h′ ~~θ~~		7.2	
θ ~~k~~		7.6	
θ′ ~~h₂~~		7.8	
k′ ~~k~~		8.0	

February 11, 1896

τ & S Persei cont.

Plate C 8273 taken Sept. 13, 1895

Images very poor

a	6.0	5.5
b	5.0	4.5
c	6.0	5.5
d		not on plate
δ		not on plate
e	6.0	5.5
ε	5.7	5.2
f	6.3	5.8
g	6.5	6.0
h	6.6	6.1
k		7.0
l		7.5
m		8.0
n		8.9
o		9.5 ?
p		9.7 ?
q		9.6 ?
τ		6.8
S		8.5

These measures superseded

Feb. 14

h″	6.7
h′ ~~θ~~	6.5
θ ~~h_1~~	7.0
θ′ ~~h_2~~	7.1
k′ +	7.4

February 11, 1896

Plate C 8274 taken Sept. 13, 1895

These measures superseded

a	6.0	5.5
b	5.0	4.5
c	6.0	5.5
d		not on plate
δ	4.8	4.3
e	5.9	5.4
ε	5.8	5.3
f	6.2	5.7
g	6.6	6.1
h	6.6	6.1
k		7.0
l		8.0
m		8.4
n		9.0
o		9.6 ?
p		10.0 ?
q		10.0 ?
τ		6.7
S		8.6

Feb. 14

h″	6.5
h′ ~~θ~~	6.3
θ ~~h_1~~	6.8
θ′ ~~h_2~~	7.1
k′ +	7.4

February 11, 1896

Estimates of brightness of X S Persei
δ b ε a c f g h k l m n o q p
Mr. Wendell's comparison stars in the order of their
photographic brightness

Plate B 96 taken Nov. 2, 1885
extreme v n.s.
edge of plate 11.46 n = .2 v < 11.66
0 n.s.

Plate B 103 taken Nov. 3, 1885
extreme 11.46 n 3 v 11.76 11.66 = 11.71 .05 .05
edge of plate 11.66 v 2 0 11.86

Plate B 1979 taken Dec. 1, 1887
10.48 l 1 v 10.58 10.47 = 10.52 .06 .05
10.47 v 4 m 10.87

Plate B 2068 taken Dec. 19, 1887
10.48 l 5 v 10.98 10.77 = 10.88 .10 .11
10.77 v 1 m 10.87

Images very poor Plate I 36 taken Oct. 10, 1889
v 0 K 10.06 ?

Trails Plate I 60 taken Oct. 17, 1889
9.30 l 5 v 9.80 9.76 = 9.78 .02 .02
9.76 v 3 K 10.06

February 11, 1896

Plate I 67 taken Oct. 18, 1889
9.30 l 5 v 9.80 9.86 = 9.83 .03 .03
9.86 v 2 K 10.06

Images poor Plate I 147 taken Nov. 17, 1889
9.30 h 7 v 10.00 9.96 = 9.98 .02 .02
9.96 v 1 k 10.06

Plate I 1771 taken Sept. 1, 1890
not on plate

Plate I 1772 taken Sept. 1, 1890
10.48 l 6 v 11.08 10.77 = 10.92 .16 .15
10.77 v 1 m 10.87

near corner of plate. Images very poor Plate I 1916 taken Sept. 30, 1890
10.87 m 7 v ? 11.57?
n n.s.

Plate I 2101 taken Oct. 30, 1890

Plate I 2146 taken Oct. 31, 1890
not on plate

Images very poor indeed near edge Plate I 2293 taken Nov. 19, 1890
v 0 m ?; 10.87?

Edge of plate Plate I 2383 taken Nov. 28, 1890
10.87 m 2 v 11.07 11.06 = 11.06 .01 0
11.06 v 4 n 11.46

Edge of Plate Plate I 2423 taken Dec. 4, 1890
10.87 m 3 v 11.17?
n n.s.

February 11, 1896

S Persei cont.

Plate I 2560 taken Dec. 22, 1890

Images poor 10.87 m 3 v 11.17 11.06 = 11.12 .05 .06

11.06 v 4 n 11.46

Plate I 2561 taken Dec. 22, 1890

Edge of plate 10.87 m 3 v 11.17 11.06 = 11.12 .05 .06

11.06 v 4 n 11.46

Plate I 2714 taken Jan. 6, 1891

10.48 v n.s. <10.58

l = .1

Plate I 2853 taken Jan. 16, 1891

10.87 m 1 v 10.97 10.86 = 10.91 .06 .05

10.86 v 6 n 11.46

Plate I 2856 taken Jan. 16, 1891

10.87 m 1 v 10.97?

n n.s.

Plate C 3336 taken Jan. 20, 1891

10.87 m 3 v 11.17 11.06 = 11.12 .05 .06

11.06 v 4 n 11.46

Plate C 3349 taken Jan. 24, 1891

10.87 m 2 v 11.07 10.96 = 11.02 .05 .06

10.96 v 5 n 11.46

Plate C 3351 taken Jan. 26, 1891

v 0 m 10.87

Plate C 3352 taken Jan. 26, 1891

Images easier to examine than on Plate C 3351 10.87 m 1 v 10.97 10.76 = 10.86 .11 .10

10.76 v 7 n 11.46

Plate C 3411 taken Feb. 5, 1891

~~m 4 v~~ 10.87 m 3 v 11.17 11.06 = 11.12 .05 .06

~~v 2 m~~ 11.06 v 4 ~~m~~ n 11.46

February 11, 1896

Plate C 3412 taken Feb. 5, 1891

+ v n.s. v < 10.16

10.06 k = .1

l n.s.

Plate C 3444 taken Feb. 11, 1891

~~m 3 v~~ 10.87 m 2 v 11.07 10.96 = 11.02 .05 .06

~~v 3 m~~ 10.96 v 5 n 11.46

Plate C 3445 taken Feb. 11, 1891

~~m 4 v~~ 10.87 m 4 v 11.27 10.96 = 11.12 .15 .16

~~v 4 m~~ 10.96 v 5 n 11.46

Plate I 3186 taken Feb. 24, 1891

v n.s. v < 10.97

10.87 m = .1

Plate I 3228 taken March 2, 1891

10.87 m 2 v 11.07?

m n.s.

Plate I 3262 taken March 10, 1891

Extreme v n.s. v < 10.16

corner of plate 10.06 k = .1

edge of plate Plate I 3278 taken March 11, 1891

images barely seen v 0 m? 10.87?

Plate C 3556 taken March 14, 1891

v 0 m 10.87

Plate I 3308 taken March 25, 1891

10.48 l 3 v 10.78 10.77 = 10.78 0 .01

10.77 v 1 m 10.87

Plate C 3612 taken April 8, 1891

10.48 l 2 v 10.68 10.67 = 10.68 0 .01

10.67 v 2 m 10.87

February 11, 1896

S Persei cont

Plate I 3919 taken July 27.91

Unless

Plate I 3969 taken Aug. 8, 1891
v n.s, v < 9.60
9.30 L = .3
k n.s.

Plate C 3956 taken Sept. 9, 1891
9.65 L 4 v 10.05 9.96 10.00 .05 .04
9.96 v 1 k 10.06

Plate C 3978 taken Sept. 19, 1891
v n.s.
9.30 L = .3 v < 9.60
k n.s.

Extreme edge of plate — Plate I 4267 taken Sept. 19, 1891
9.65 L 3 v 9.95 9.86 = 9.90 .05 .04
9.86 v 2 k 10.06

Plate C 4014 taken Sept. 30, 1891
9.65 L 4 v 10.05 9.76 = 9.90 .15 .14
9.76 v 3 k 10.06

extreme edge of plate — Plate I 4584 taken Oct. 20, 1891
9.65 L 3 v 9.95 9.96 = 9.96 .01 0
9.96 v 1 k 10.06

Plate C 4122 taken Oct. 29, 1891
9.65 L 3 v 9.95 10.28 = 10.12? .17 .16
10.28 v 2 ~~k~~l 10.48

Plate C 4158 taken Nov. 6, 1891
9.65 L 4 v 10.05 9.96 = 10.00 .05 .04
9.96 v 1 k 10.06

Feb. 11, 1896

Edge of plate Images poor — Plate I 4814 taken Nov. 20, 1891
9.65 L 3 v 9.95 9.86 = 9.90 .05 .04
9.86 v 2 k 10.06

extreme edge of plate — Plate I 4945 taken Dec. 2, 1891
9.65 L 2 v 9.85 9.86 = 9.86? .01 0
9.86 v 2 k 10.06 ?

Plate I 5073 taken Dec. 11, 1891
v 0 k 10.06

Images very poor — Plate I 5720 taken Dec. 12, 1891
v 0 k 10.06

extreme edge of plate — Plate I 5307 taken Jan. 1, 1892
v 0 k 10.06

Plate C 4474 taken Feb. 18, 1892
Many stars faint blurred — ~~L 3 v~~ 9.30 L 4 v 9.70 9.55 v = 9.62 .08 .07
~~v 2 k~~ 9.55 v 1 L 9.65

Plate C 4475 taken Feb. 18, 1892
9.30 L 5 v 9.80 9.55 = 9.68 .12 .13
9.55 v 1 L 9.65

Plate I 5880 taken March 6, 1892
v 0 L 9.65

Extreme edge of plate — Plate I 6030 taken April 9, 1892
v 0 L 9.65

Plate I 6854 taken Sept. 3, 1892
10.48 l 1 v 10.58 10.47 = 10.52 .06 .15
10.47 v 4 m 10.87

Plate C 5728 taken Nov. 5, 1892
~~m + v~~ 10.87 m 1 v 10.97 10.66 = 10.82 .15 .16
~~v 8 m~~ 10.66 v 8 m 11.46

See note page 76

February 11, 1896

S Persei cont.

Plate I 7475 taken Nov. 6, 1892
v 0 m 10.87
Plate I 7570 taken Nov. 21, 1892
v 0 m 10.87
Plate I 7~~585~~ 628 taken ~~Nov. 23~~ Dec. 5, 1892
~~m 3 v~~ 10.87 m 2 v 11.07 10.86 = 10.96 .11 .10
~~v 2 m′~~ 10.86 v 6 n 11.46
Plate I 7585 taken Nov. 23, 1892
10.87 m 1 v 10.97?
m′ n.s.
Plate C 5244 taken Dec. 20, 1892
~~m 2 v~~ v 0 m 10.87
~~v 3 m′~~

Images very poor

Plate I 7772 taken ~~Nov. 22~~ Dec. 29, 1892
~~m 1 v~~ 10.87 m 1 v 10.97 10.76 = 10.86 .11 .10
~~v 4 m′~~ 10.76 v 7 n 11.46
Plate I 7773 taken Dec. 29, 1892
v 0 m 10.87
Plate I 7823 Jan. 3, 1893
10.87 m 1 v 10.97 11.06 = 11.02 .05 .06
~~11.06~~ v 4 m 11.46

Edge of plate

Plate I 8051 taken Feb. 15, 1893
10.87 m 5 v 11.37 11.36 = 11.36 .01 0
11.36 v 1 n 11.46
Plate C 5370 taken Feb. 15, 1893
v n.s. v < 10.97
10.87 m = .1 10.97

February 11, 1896

Plate C 5371 ~~taken~~ Feb. 15, 1893
~~m 5 v~~ 10.87 m 4 v 11.27 11.16 = 11.22 .05 .06
~~v 1 m′~~ 11.16 v 3 n 11.46
Plate C 5372 taken Feb. 15, 1893
~~m 5 v~~ 10.87 m 4 v 11.27 11.16 = 11.22 .05 .06
~~v 1 m′~~ 11.16 v 3 n 11.46
Plate C 5397 taken Feb. 27, 1893
~~m 3 v~~ 10.87 m 2 v 11.07 11.06 = 11.06 .01 0
~~v 3 m′~~ 10.06 v 4 n 11.46
Plate I 8187 taken March 7, 1893
~~m 2 v~~ 10.87 m 1 v 10.97 10.86 = 10.92 .05 .06
~~v 4 m′~~ 10.86 v 6 n 11.46
Plate C 5440 taken March 16, 1893
~~m 2 v~~ 10.87 m 2 v 11.07 11.06 = 11.06 .01 0
~~v 4 m′~~ 11.06 v 4 n 11.46
Plate C 5505 taken April 18, 1893
~~m 2 v~~ 10.87 m 3 v 11.17 11.06 = 11.12 .05 .06
~~v 3 m′~~ 11.06 v 4 n 11.46

Extreme edge of plate. Images barely visible

Plate I 8456 taken April 24, 1893
10.87 m 2 v 11.07 11.36 = 11.21 .14 .15
11.36 v 1 n 11.46
Plate C 5872 taken Aug. 13, 1893
10.48 l 6 v 11.08 10.67 = 10.88 .20 .21
10.67 v 2 m 10.87

Extreme edge of plate

Plate I 9280 taken Aug. 21, 1893
10.48 l 3 v 11.78 10.57 = 10.68 .10 .11
10.57 v 3 m 10.87

February 12, 1896

S Persei cont

Plate C 5902 taken Aug. 22, 1893
10.48 l 4 v 10.88 10.77 v = 10.82 .06 .05
10.77 v 1 m 10.87

Images scarcely visible — Plate C 5904 taken Aug. 22, 1893
10.48 l 4 v ? 10.88 10.77 = 10.82 ? .06 .05
10.77 v 1 m ? 10.87

Plate C 6004 taken Sept. 20, 1893
v o l 10.48

Extreme corner. Images very poor — Plate I 9546 taken Sept. 20, 1893
v o l ? 10.48 ?

Plate C 6103 taken Oct. 16, 1893
v o l 10.48

Plate I 9758
not on plate

Plate I 9808 taken Oct. 29, 1893
not on plate

Plate C 6188 taken Nov. 7, 1893
10.06 K 4 v 10.46 10.28 = 10.37 .09 .09
10.28 v 2 l 10.48

Edge of plate — Plate I 10202 taken Dec. 18, 1893
v o l 10.48

Plate C 6370 taken Dec. 20, 1893
v o K 10.06

Edge of plate — Plate I 10351 taken Jan. 1, 1894
10.06 K 4 V 10.46 10.38 v = 10.42 .04 .04
10.38 v 1 l 10.48

February 12, 1896 –

Plate I 10352 taken Jan. 1, 1894
10.06 K 2 v 10.26 10.18 = 10.22 .04 .04
10.18 v 3 l 10.48

Plate C 6439 taken Jan. 7, 1894
v o K 10.06

Plate C 6588 ~~taken~~ Feb. 16, 1894
v o K 10.06

Plate C 6589 ~~taken~~ Feb. 16, 1894
v o K 10.06

Near edge of plate — Plate I 10442 taken Jan. 19, 1894
v o K 10.06

Plate I 10673 taken Feb. 16, 1894
Image defective - apparently a flaw in film

Plate I 10759 taken March 7, 1894
v o K 10.06

Plate I 10844 taken March 19, 1894
v o K 10.06

trails — Plate C 6663 taken March 27, 1894
10.06 K 1 v 10.16 9.98 v = 10.07 .09 .09
9.98 v 5 l 10.48

Images barely discernible — Plate C 6766 taken May 8, 1894
v o K ? 10.06 ?

Plate C 6883 taken July 3, 1894
v o K 10.06

near edge of plate — Plate C 7003 taken Aug. 21, 1894
10.06 K 4 v 10.46 10.28 = 10.37 ? .09 .09
10.28 v 2 l 10.48

February 12, 1896

S Persei cont.

Plate C 7004 taken Aug. 21, 1894
11.06 K 1 v 10.16 9.98 v = 10.07 .09 .09
9.98 v 5 l 10.48

Extreme edge of plate

Plate I 11640 taken Oct. 14, 1894
10.06 K 2 v 10.26? 10.08 v = 10.17? .09 .09
10.08 v 4 l 10.48

Extreme edge of plate

Plate I 11641 taken Oct. 14, 1894
10.06 K 3 v 10.36 10.18 v = 10.27 .09 .09
10.18 v 3 l 10.48

Plate C 7115 taken Oct. 16, 1894
10.06 K 3 v 10.36 10.18 v = 10.27 .09 .09
10.18 v 3 l 10.48

Extreme edge of plate. Images very poor

Plate I 11752 taken Oct. 19, 1894
10.06 K 3 v 10.36 10.18 = 10.27 .09 .09
10.18 v 3 l 10.48

Plate I 11766 taken Oct. 20, 1894
10.06 K 3 v 10.36 10.18 v = 10.27 .09 .09
10.18 v 3 l 10.48

Extreme Edge of plate

Plate I 11822 taken Nov. 7, 1894
10.06 K 2 v 10.26 10.08 v = 10.17 .09 .09
10.08 v 4 l 10.48

Plate C 7223 taken Nov. 12, 1894
10.06 K 3 v 10.36 10.28 = 10.32 .04 .04
11.28 v 2 l 10.48

Plate C 7224 taken Nov. 12, 1891
10.06 K 4 v 10.46 10.28 v = 10.37 .09 .09
10.28 v 2 l 10.48.

February 12, 1896

Plate C 7229 taken Nov. 16, 1894
10.06 K 5 v 10.56 10.38 = 10.47 .09 .09
10.38 v 1 l 10.48

extreme edge of plate

Plate I 12081 taken Dec. 15, 1894
v 0 l 10.48

Plate C 7339 taken Dec. 17, 1894
10.48 l 1 v 10.58 10.47 v = 10.52 .06 .05
10.47 v 4 m 10.87

extreme edge

Plate I 12185 taken Jan. 2, 1895
10.48 l 1 v 10.58 10.47 v = 10.52 .06 .05
10.47 v 4 m 10.87

Edge of plate

Plate I 12187 taken Jan. 2, 1895
10.48 l 1 v 10.58 10.47 v = 10.52 .06 .05
10.47 v 4 m 10.87

Plate C 7453 taken Jan. 23, 1895
10.48 l 2 v 10.68 10.47 v = 10.58 .10 .11
10.47 v 4 m 10.87

Plate C 7486 taken Feb. 5, 1895
10.48 l 4 v 10.88 10.67 v = 10.78 .10 .11
10.67 v 2 m 10.87

Plate C 7487 taken Feb. 5, 1895
10.48 l 4 v 10.88 11.67 v = 10.78 .10 .11
10.67 v 2 m 10.87

Plate C 7547 taken Feb. 20, 1895
10.48 l 4 v 10.88 10.67 v = 10.78 .10 .11
10.67 v 2 m 10.87

February 12, 1896

S Persei omit

Images scarcely visible Plate C 7599 taken March 5, 1895
10.48 l 4 v? 10.88?
m n.s.

Plate C 7715 taken April 17, 1895
10.48 l 5 v 10.98 10.77 v = 10.88 .10 .11
10.77 v 1 m 10.87

Plate C 7758 taken May 1, 1895
10.48 l 5 v 10.98 10.77 v = 10.88 .10 .11
10.77 v 1 m 10.87

Corner of plate Images very faint Plate I 12765 taken May 2, 1895
v 0 m? 10.87?

Plate C 7822 taken May 7, 1895
v 0 m 10.87

~~Plate C 7960 taken June 20,~~ 1895

Plate C 7977 taken July 11, 1895
10.87 m 1 v 10.97?
m' n.s.

Plate C 8099 taken Aug. 5, 1895
~~m 4 v~~ 10.87 m 2 v 11.07 10.86 v = 10.96 .11 .10
~~v 5 m'~~ 10.86 v 6 n 11.46

Plate C 8100 taken Aug. 5, 1895
~~m 5 v~~ 10.87 m 3 v 11.17 10.86 v = 11.02 .15 .16
~~v 6 m'~~ 10.86 v 6 n 11.46

February 12, 1896

Corner of plate. Images faint and distorted Plate I 13185 taken Aug. 5, 189~~4~~5
~~m 4 v~~ 10.87 m 3 v 11.17 11.06 v = 11.12 .05 .06
~~v 4 m'~~ 11.06 v 4 n 11.46

Plate C 8125 taken Aug. 14, 189~~4~~5
~~m 4 v~~ 10.87 m 4 v 11.27 10.96 v = 11.12 .15 .16
~~v 5 m'~~ 10.96 v 5 n 11.46

Plate C 8136 taken Aug. 16, 1895
~~m 4 v~~ 10.87 m 4 v 11.27 11.06 v = 11.16 .11 .10
~~v 5 m'~~ 11.06 v 4 n 11.46

Plate C 8137 taken Aug. 16, 1895
~~m 4 v~~ 10.87 m 3 v 11.17 10.96 v = 11.06 .11 .10
v 5 m' 10.96 v 5 n 11.46

Plate ~~C 8~~274 taken Sept. 13, 1895
~~m 4 v~~ 10.87 m 3 v 11.17 10.86 v = 11.02 .15 .16
~~v 5 m'~~ 10.86 v 6 n 11.46

Plate C 8284 taken Sept. 15, 1895
~~m 4 v~~ 10.87 m 4 v 11.27 10.86 v = 11.06 .21 .20
~~v 5 m'~~ 10.86 v 6 n 11.46

Plate I 13574 taken Sept. 30, 1895
~~m 4 v~~ 10.87 m 2 v 11.07 10.86 v = 10.96 .11 .10
~~v 5 m'~~ 10.86 v 6 n 11.46

Plate I 13583 taken Oct. 1, 1895
v not on plate

Plate I 13612 taken Oct. 2, 1895
~~m 4 v~~ 10.87 m 3 v 11.17 10.86 v = 11.02 .15 .16
~~v 5 m'~~ 10.86 v 6 n 11.46

Corner of plate Images very faint Plate I 13642 taken Oct. 6, 1895
~~m 2 v~~ 10.87 m 1 v 10.97 11.16 v = 11.06 .09 .10
~~v 3 m'~~ 11.16 v 3 n 11.46

February 12, 1896

S Persei cont

Corner of plate
Images almost too poor.

Plate $\overset{I}{C}$ 13796 taken Nov. 6, 1895
10.87 m 2 v ? 11.07?
m' not seen

Plate C 8471 taken Nov. 11, 1895
~~m 3 v~~ 10.87 m 4 v 11.27 10.86 v = 11.06 .21 .20
~~v 6 m'~~ 10.86 v 6 n 11.46

Plate C ~~8595~~ 4.77 taken Nov. 15, 1895
~~m 4 v~~ 10.87 m 3 v 11.17 10.96 v = 11.06 .11 .10
~~v 5 m'~~ 10.96 v 5 n 11.46

Plate C 8595 taken Dec. 16, 1895
v 0 m 10.87

Plate C 8696 taken Dec. 31, 1895
v 0 l 2 10.48?

There is a defect in the film which makes the exact magnitude of l a trifle uncertain.

After the constant for the plates had been found and the magnitudes of the comparison stars deduced, I found that I had neglected to measure n'. It was so close to the value of ~~m~~ n, however as to be rather superfluous. I have accordingly ~~been~~ gone over all the plates upon which n' was used, making an entirely independent estimate from a list of such plates on a separate sheet of paper.

Mar. 10 ~~Feb 20~~, 1896

Plate C 8866 taken Feb. 20, 1896
v n.s.
f = .1

February 13, 1896

Estimates of the brightness of T Persei

Plate B 96 taken Nov. 2, 1885
v 0 k' 10.15

Plate B 103 taken Nov. 3, 18~~7~~85
v 0 k' 10.15

Plate B 1979 taken Dec. 1, 1887
9.98 l 4 v 10.38 10.05 = 10.22 16 17
10.05 v 1 k' 10.15

Plate B 2068 taken Dec. 19, 1887
v 0 k' 10.15

Plate I 36 taken Oct. 10, 1889
v 0 l θ 9.83

Plate I 60 taken Oct. 17, 1889
9.30 l 5 v 9.80 9.73 = 9.76 .04 .07
9.73 v 1 l θ 9.83

Corner of plate
Images very poor

Plate I 147 taken Nov. 17, 1889
v 0 l θ 9.83

Very poor images
Corner of plate

Plate I 1772 taken Sept. 1, 1890
v 0 l θ2 9.98

February 13, 1896

T Persei cont.

Plate I 1916 taken Sept. 30, 1890
Too poor - corner
Plate I 2101 taken Oct. 30, 1890

Plate I 2146 taken Oct. 31, 1890
not on plate
Plate I 2293 taken Nov. 19, 1890
v 0 k_2 θ′ 9.98

Extreme edge near corner
Plate I 2383 taken Nov. 28, 1890
v 0 k_2 θ′ 9.98

Plate I 2423 taken Dec. 4, 1890
9.98 k_2 θ′ 1 v 10.08 9.95 = 10.02 .06 .07
9.95 v 2 k'_x 10.15
Plate I 2560 taken Dec. 22, 1890
9.98 k_2 θ′ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k'_x 10.15

Images very poor edge of plate
Plate I 2561 taken Dec. 22, 1890
v 0 k_2 θ′ 9.98

Images extremely faint - Edge of plate
Plate I 2714 taken Jan. 6, 1891
9.98 k_2 θ′ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k'_x 10.15
Plate I 2853 taken Jan. 16, 1891
v 0 k'_x 9.83 v 0 k_2 9.98 = 9.90 .08 .07
The images are very round, and I can see no difference in magnitude between k_2 and k.

February 13, 1896.

Plate C 3333 taken Jan. 16, 1891
9.98 k_2 θ′ 1 v 10.08 9.95 = 10.02 .06 .07
9.95 v 2 k'_x 10.15
Plate I 2856 taken Jan. 16, 1891
v 0 k_2 θ′ 9.98

Plate C 3347 taken Jan. 24, 1891
v 0 k_2 θ′ 9.98

Plate C 3367 taken Feb. 1, 1891
v 0 k_2 θ′ 9.98

Plate C 3368 taken Feb. 1, 1891
9.83 k_x θ 2 v 10.03 9.88 = 9.96 .07 .06
9.88 v 1 k_2 θ′ 9.98
Plate C 3393 taken Feb. 4, 1891
v 0 k_2 θ′ 9.98

Plate C 3394 taken Feb. 4, 1891
v 0 k_2 θ′ 9.98
Plate C 3418 taken Feb. 6, 1891
v 0 k_2 θ′ 9.98

Images poor
Plate C 3419 taken Feb. 6, 1891
v 0 k_x θ 9.83

Plate C 3424 taken Feb. 10, 1891
9.83 k_x θ 2 v 10.03 9.88 = 9.96 .07 .08
9.88 v 2 k_2 θ′ 9.98

February 13, 1896

R Persei ant.

Plate C 3425 taken Feb. 10, 1891
9.83 $l\,\theta$ 1 v 9.93 9.78 = 9.86 .07 .08
~~10.18~~ 9.78 v 2 $l_2\,\theta'$ 9.98

Plate I 3186 taken Feb. 24, 1891
v 0 $l\,\theta$ 9.83

Plate I 3228 taken March 2, 1891
v 0 $l\,\theta$ 9.83

Plate I 3262 taken March 10, 1891
v 0 $l\,\theta$ 9.83

Images very poor - Corner of plate — Plate I 3270 taken March 11, 1891
v 0 $l\,\theta$ 9.83

Plate I 3308 taken March 25, 1891
v 0 $l\,\theta$ 9.83

Plate I 3969 taken Aug. 8, 1891
Too poor - Extreme Corner of Plate -

Images faint poor plate — Plate C 3919 taken Sept. 1, 1891
v 0 $l\,\theta$? 9.83

Plate C 3930 taken Sept. 3, 1891
Plate badly stained in region of v

Corner of plate - Images poor — Plate I 4267 taken Sept. 19, 1891
v 0 $l\,\theta$? 9.83 ?

February 13, 1896

trails — Plate C 3985 taken Sept. 20, 1891
v 0 $l\,\theta$ 9.83

Plate C 4065 taken Oct. 16, 1891
Poor plate - Nothing in region

Corner of plate — Plate I 4584 taken Oct. 20, 1891
9.83 $l\,\theta$ 1 v 9.93 9.88 = 9.90 .03 .02
9.88 v 1 $l_2\,\theta'$ 9.98

Plate C 4151 taken Nov. 4, 1891
v 0 l, 9.83

Plate I 4814 taken Nov. 20, 1891
v 0 $l_2\,\theta'$ 9.98

Corner of plate Images very faint — Plate I 4945 taken Dec. ~~21, 1891~~ 2, 1891
v 0 $l_2\,\theta'$? 9.98

good plate — Plate I 5073 taken Dec. 11, 1891
v 0 $l_2\,\theta'$ 9.98

Plate I 5120 taken Dec. 12, 1891
v 0 $l_2\,\theta'$ 9.98

Corner of plate — Plate I 5307 taken Jan. 1, 1892
9.98 $l_2\,\theta'$ 1 v 10.08 9.95 = 10.02 .06 .07
9.95 v 2 k_x' 10.15

February 13, 1896

Kanni amb.

Plate I 5413 taken Jan. 20, 1892
not on plate

Plate C 4465 taken Feb. 17, 1892
9.98 $k\theta'_2$ 1 v 10.08 9.95 = 10.02 .06 .07
9.95 v 2 k'_x 10.15

Plate C 4466 taken Feb. 17, 1892
9.98 $k\theta'_2$ 2 v 10.18 9.95 = 10.06 .12 .11
9.95 v 2 k' 10.15

Plate C 4476 taken Feb. 18, 1892
9.98 $k\theta'_2$ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k'_x 10.15

Edge of plate
Plate I 5810 taken March 6, 1892
v 0 k'_x 10.15

Near corner of plate - Images scarcely seen
Plate I 6030 taken April 9, 1892
v 0 $k\theta'_2$ 9.98

Plate I 6854 taken Sept. 3, 1892
9.83 $k\theta_1$ 1 v 9.93 9.88 = 9.90 .03 .02
9.88 v 1 $k\theta'_2$ 9.98

Plate C 5128 taken Nov. 5, 1892
9.98 $k\theta'_2$ 1 v 10.08 9.85 = 9.96 .12 .11
9.85 v 3 k'_x 10.15

Plate I 7475 taken Nov. 6, 1892
9.98 $k\theta'_2$ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k'_x 10.15

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Plate I 7570 taken Nov. 21, 1892.
9.98 $k\theta'_2$ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k' 10.15

Plate I 7585 taken Nov. 23, 1892
v 0 k'_x 10.15

Plate $C^{I?}$ 7628 taken Dec. 5, 1892
v 0 k'_x 10.15

Plate C 5243 taken Dec. 20, 1892
v 0 k'_x 10.15

Plate I 7772 taken Dec. 29, 1892
v 0 k'_x 10.15

Plate I 7773 taken Dec. 29, 1892
v 0 k'_x 10.15

Plate I 7823 taken Jan. 3, 1893
v 0 k'_x 10.15

Plate C 5365 taken Feb. 12, 1893
v 0 $k\theta'_2$ 9.98

trails good estimate
Plate C 5366 taken Feb. 12, 1893
9.98 $k\theta'_2$ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k'_x 10.15

February 13th 1896

X Persei cont.

Plate I 8057 taken Feb. 15, 1893
9.98 $h_2\theta'$ 1 v 10.08 10.05 = 10.06 .02 .01
10.05 v 1 k' 10.15

Plate C 5408 taken Feb. 28, 1893
9.98 $h_2\theta'$ 1 v 10.08 9.95 = 10.02 .06 .07
9.95 v 2 k' 10.15

Plate I 8187 taken March 7, 1893
v 0 $h_2\theta'$ 9.98

Plate C 5426 taken March 12, 1893
v 0 $h\theta'$ 9.98

Plate C 5492 taken April 8, 1893
v n.s. < 9.40
9.30 h = .1

Plate I 8456 taken April 24, 1893
9.83 $h\theta$ 2 v 10.03 9.88 = 9.96 .07 .08
9.88 v 1 $h\theta'$ 9.98

Plate C 5533 taken May 8, 1893
9.83 $h\theta$ 2 v 10.03 9.88 = 9.96 .07 .0~~7~~8
9.88 v 1 $h_2\theta'$ 9.98

Plate C 5871 taken Aug 13, 1893
v 0 $h_2\theta'$ 9.98

Plate C 5896 taken Aug. 21, 1893
v 0 hk' 10.15

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Plate C 5897 taken Aug. 21, 1893
v 0 k' 10.15

Edge of plate
Plate I 9280 taken Aug. 21, 1893
v 0 $h_2\theta'$ 9.98

Extreme corner
Plate I 9546 taken Sept. 20, 1893
v 0 $h_2\theta'$ 9.98

Plate C 6016 taken Sept. 30, 1893
9.98 $h\theta'$ 2 v 10.18 10.05 = 10.12 .06 .07
10.05 v 1 k' 10.15

Plate C 6102 taken Oct. 16, 1893
v 0 $h_2\theta'$ 9.98

Plate I 9758 taken Oct. 24, 1893

Extreme edge near corner
Plate I 9808 taken Oct. 29, 1893
v 0 $h_2\theta'$ 9.98

Plate I 10202 taken Dec. 18, 1893
9.83 $h\theta$ 1 v 9.93 9.88 = 9.90 .03 .02
9.88 v 1 $h_2\theta'$ 9.98

Plate C 6356 taken Dec. 18, 1893
v 0 $h\theta$ 9.83

Plate C 6369 taken Dec. 20, 1893
v 0 $h\theta$ 9.83

February 14, 1896

Rusi cont.

[Plate C6440 taken Jan. 7, 1894
9.83 $h_1\theta$ 1 v 9.93 9.78 = 9.86 .07 .08
9.78 v 2 $h_2\theta$ 9.98
Plate I10351 taken Jan. 1, 1894
v 0 $h_1\theta$ 9.83

Plate I10352 taken Jan. 1, 1894
v 0 $h_1\theta$ 9.83

Plate C6485 taken Jan. 19, 1894
v 0 $h_1\theta$ 9.83

Plate I10442 taken Jan. 19, 1894
9.83 $h_1\theta$ 1 v 9.93 9.88 9.90 .03 .02
9.88 v 1 $h_2\theta'$ 9.98
Plate C6558 taken Feb. 5, 1894
9.83 $h_1\theta$ 1 v 9.93 9.88 = 9.90 .03 .02
9.88 v 1 h_2 9.98
Plate C6559 taken Feb. 5, 1894
9.83 $h_1\theta$ 1 v 9.93 9.78 = 9.86 .07 .08
9.78 v 2 $h_2\theta'$ 9.98
Plate I10673 taken Feb. 16, 1894
9.83 $h_1\theta$ 2 v 10.03 9.88 = 9.95 .08 .07
9.88 v 1 $h_2\theta'$ 9.98
Edge of plate Plate I10759 taken March 7, 1894
9.83 $h_1\theta$ 1 v = 9.93 9.88 = 9.90 .03 .02
9.88 v 1 $h_2\theta'$ 9.98

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Plate ~~C~~ I10844 taken March 19, 1894
v 0 $h_1\theta$ 9.83

Plate C6664 taken March 27, 1894
v 0 $h_1\theta$ 9.83

Images very faint Plate C6699 taken April 9, 1894
9.$\overset{7}{8}$3 v 1 $h_1\theta$ 9.83 v = 9.$\overset{7}{8}$3? 0
9.65 h' not on plate θ 6 v

Plate C6767 taken May 8, 1894
9.$\overset{7}{8}$3 v 1 $h_1\theta$ 9.83 v = 9.73?
h' not on plate θ 4 v

Plate C6883 taken July 3, 1894
v 0 $h_1\theta$ 9.83

Plate C6964 taken Aug. 5, 1894
9.30 h 5 v 9.80 9.73 v = 9.76 .04 .03
9.73 v 1 $h_1\theta$ 9.83
Plate C7003 taken Aug. 21, 1894
9.73 v 1 $h_1\theta$ 9.83
h' not on plate θ 3 v
Plate C7004 taken Aug. 21, 1894
9.73 v 1 $h_1\theta$ 9.83
9.44 θ 3 v 9.74 9.73 = 9.74 .01 0
Images very faint Plate C7069 taken Sept. 29, 1894
v 0 $h_1\theta$ 9.83?

February 14, 1896

T Persei cont.

Plate I 11640 taken Oct. 14, 1894
9.44 ~~Q~~ L′ 3 v 9.74 9.63 = 9.68 .06 .05
9.63 v 2 ~~L~~ θ 9.83

Plate I 11641 taken Oct. 14, 1894
9.44 ~~Q~~ L′ 3 v 9.74 9.63 = 9.68 .06 .05
9.63 v 2 ~~L~~ θ 9.83

Edge of plate
Plate I 11752 taken Oct. 19, 1894
9.44 ~~Q~~ L′ 4 v 9.84 9.73 = 9.78 .06 .05
9.73 v 1 ~~L~~ θ 9.83

Extreme edge near corner
Plate I 11766 taken Oct 20, 1894
v 0 ~~L~~ θ 9.83 v = 9.83 0

Edge of plate Two images of each star
Plate I 11822 taken Nov. 7, 1894
v 0 ~~L~~ θ 9.83 v = 9.83 0

Plate C 7225 taken Nov. 12, 1894
9.44 ~~Q~~ L′ 4 v 9.84 9.73 = 9.78 .06 .05
9.73 v 1 ~~L~~ θ 9.83

Plate C 7230 taken Nov. 16, 1894
9.44 ~~Q~~ L′ 5 v 9.94 9.53 = 9.74 .20 .21
9.53 v 3 ~~L~~ θ 9.83

Near edge of film
Plate C 7261 taken Nov. 22, 1894
9.44 ~~Q~~ L′ 4 v 9.84 9.73 = 9.78 .06 .05
9.73 v 1 ~~L~~ θ 9.83

Plate I 12081 taken Dec. 15, 1894
9.44 ~~Q~~ L′ 2 v 9.64 9.53 = 9.58 .06 .05
9.53 v 3 ~~L~~ θ 9.83

February 14, 1896

Plate C 7338 taken Dec. 17, 1894
9.44 ~~Q~~ L′ 3 v 9.74 9.63 = 9.68 .06 .05
9.63 v 2 ~~L~~ θ 9.83

Near edge
Plate I 12185 taken Jan. 2, 1895
9.44 ~~Q~~ L′ 4 v 9.84 9.73 = 9.78 .06 .06
9.73 v 1 ~~L~~ θ 9.83

Edge of plate
Plate I 12187 taken Jan. 2, 1895
v 0 ~~Q~~ L′ 9.44 ?

Plate C 7452 taken Jan. 23, 1895
9.44 ~~Q~~ L′ 3 v 9.74 9.63 = 9.68 .06 .05
9.63 v 2 ~~L~~ θ 9.83

Plate C 7501 taken Feb 11, 1895
9.44 ~~Q~~ L′ 5 v 9.94 9.73 = 9.84 .10 .11
9.73 v 1 ~~L~~ θ 9.83

Plate C 7509 taken Feb. 13, 1895
9.44 ~~Q~~ L′ 4 v 9.84 9.63 = 9.74 .10 .11
9.63 v 2 ~~L~~ θ 9.83

Plate C 7570 taken Feb. 13, 1895
9.44 ~~Q~~ L′ 5 v 9.94 9.73 = 9.84 .10 .11
9.73 v 1 ~~L~~ θ 9.83

Images very faint
Plate C 7598 taken March 5, 1895
v 0 ~~L~~ θ ? 9.83?

Plate C 7717 taken April 17, 1895
9.44 ~~Q~~ L′ 5 v 9.94 9.73 = 9.84 .10 .11
9.73 v 1 ~~L~~ θ 9.83

February 14, 1896

T Persei cont

Images very faint

Plate C 7757 taken May 1, 1895
9.44 $\theta^{\ell'}$ 5 v 9.94 9.73 = 9.84 .10 .$\underline{11}$
9.73 v 1 ℓ_1^{θ} 9.83

Extreme edge of plate

Plate I 12765 taken May 2, 1895
9.44 $\theta^{\ell'}$ 2 v 9.64 9.53 = 9.58 .06 .0$\underline{5}$
9.53 v 3 ℓ_1^{θ} 9.83

Plate C 7821 taken May 7, 1895
9.44 $\theta^{\ell'}$ 2 v 9.64 9.53 = 9.58 .06 .0$\underline{5}$
9.53 v 3 ℓ_1^{θ} 9.83

Plate C 7959 taken June 20, 1895
v not on plate

Plate C 7976 taken July 11, 1895
9.83 ℓ_1^{θ} 1 v 9.93 9.68 = 9.80 .13 .1$\underline{2}$
9.68 v 3 $\ell_2^{\theta'}$ 9.98

Plate C 8086 taken Aug. 2, 1895
v 0 ℓ_1^{θ} 9.83

Plate C 8096 taken Aug. 5, 1895
9.83 ℓ_1^{θ} 2 v 10.03 9.88 = 9.96 .07 .0$\underline{6}$
9.88 v 1 $\ell_2^{\theta'}$ 9.98

Plate C 8097 taken Aug. 5, 1895
9.83 ℓ_1^{θ} 1 v 9.93 9.78 = 9.86 .07 .0$\underline{8}$
9.78 v 2 $\ell_2^{\theta'}$ 9.98

~~extreme~~ edge of plate

Plate I 13185 taken Aug. 5, 1895
v 0 ℓ_x^{θ} 9.83 !

Plate C 8113 taken Aug. 13, 1895
9.44 $\theta^{\ell'}$ 4 v 9.84 9.63 = 9.74 .10 .$\underline{11}$
9.63 v 2 ℓ_x^{θ} 9.83

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Plate C 8114 taken Aug. 13, 1895
9.44 $\theta^{\ell'}$ 4 v 9.84 9.73 = 9.78 .06 .0$\underline{5}$
9.73 v 1 ℓ_1^{θ} 9.83

Images faintly seen

Plate C 8227 taken Sept. 3, 1895
v 0 ℓ_x^{θ}? 9.83? 0

Plate C 8245 taken Sept. 5, 1895
9.44 $\theta^{\ell'}$ 4 v 9.84 9.73 = 9.78 .06 .0$\underline{5}$
9.73 v 1 ℓ_1^{θ} 9.83

Plate C 8273 taken Sept. 13, 1895
9.44 $\theta^{\ell'}$ 4 v 9.84 9.63 = 9.74 .10 .$\underline{11}$
9.63 v 2 ℓ_1^{θ} 9.83

Plate C 8283 taken Sept. 15, 1895
v 0 ℓ_1^{θ} 9.83

Edge of plate

Plate I 13574 taken Sept. 30, 1895
v 0 ℓ_1^{θ} 9.83

Extreme edge of plate

Plate I 13583 taken Oct. 1, 1895
v 0 ℓ_1^{θ} 9.83

Plate I 13612 taken Oct. 2, 1895
v 0 ℓ_1^{θ} 9.83

edge of plate

Plate I 13642 taken Oct. 6, 1895
v 0 ℓ_x^{θ} 9.83

extreme edge

Plate I 13796 taken Nov. 6, 1895
9.83 ℓ_1^{θ} 1 v 9.93 9.88 = 9.90 .03 .0$\underline{2}$
9.88 v 1 $\ell_2^{\theta'}$ 9.98

February 14, 1896

T Persei cont.

Plate C 8466 taken Nov. 6, 1895
v 0 h_1 θ 9.83

Plate C 8470 taken Nov. 11, 1895
v 0 h_1 θ 9.83

Plate C 8594 taken Dec. 16, 1895
9.98 h_2 θ' 2 v 10.18   10.05   10.12   .06 .07
10.05 v 1 k' 10.15

Plate C 8695 taken Dec. 31, 1895
v 0 h_2 θ' 9.98

Images very circular. Difficult to estimate Mar. 10, 1896

Plate C 8744 taken ~~D~~ Jan. 11, 1896
v 0 h_2 θ' 9.98

Plate C 8860 taken Feb. 17, 1896
v 0 h_1 θ 9.83

February 21, 1896

Measures of brightness of standard stars in Pleiades H.C.A. Vol XVIII page 153.

Plate B 1033 taken Jan. 18, 1887

DM +23° 541	a	Too bright to measure	
+23 522	b	" " " "	
+23 505	c	" " " "	
	d	" " " "	
+23 540	e	2.0	2.3
+24 578	f	2.7	3.0
+23 567	g	2.8	3.1
+23 562	h	3.1	3.4
+24 567	i	3.8	4.1
+23 565	j	4.0	4.3
+23 564	k	5.8	6.2
	l	6.6	6.9
	m		8.1
	n		9.2
	o		9.7

A remarkably good plate

February 21, 1896

Measures in Pleiades continued

Plate B 20~~0~~57 later

a	Too large		
b	"	"	
c	"	"	
d	"	"	
e	~~1~~2.1	2.4	
f	2.9	3.2	
g	2.9	3.2	
h	3.1	3.4	
k	5.1	5.4	
l	6.5	6.8?	Image much elongated
m		8.2?	" " "
n		9.8?	
o		9.9?	
i	3.3	~~6.2~~ 3.6	
j	3.7	~~3.7~~ 4.0	

Do not use this plate if another better one can be found. Images of fainter stars poor

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February 21, 1896

Measures of Pleiades cont.

Plate B3159

a			
b			
c	2.6	2.9	
d	2.8	3.1	
e	3.9	4.2	
f	4.5	4.8	
g	4.5	4.8	
h	4.8	5.1	
i	4.9	5.2	
j	5.3	5.7	
k		7.8	
l		8.7	
m		9.7	
n		10.5?	just seen
o		10.5?	" "

February 21, 1896

Pleiades cont.

Plate I 199 taken Nov. 29, 1889

a	3	
b		
c		
d	1.9?	2.2?
e	3.0	3.3
f	3.8	4.1
g	4.0	4.3
h	4.1	4.4
i	4.7	5.0
j	5.1	5.4
k	6.2	6.5
l	7.0	7.3
m		8.3
n		9.6
o		9.9

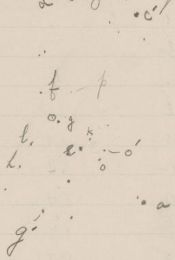
February 22, 1896

Measures of photographic magnitudes of comparison stars to R Aurigae –

Superseded
See Vol 4 pp 26-29, 33-36

Plate I 2924 taken Jan. 26, 1891

a	~~3~~ 4.3	4.6
b	5.9	6.2
c	Marked ⊙ on D.M. chart. Not needed for comparison –	
d	6.9	7.2
e	7.0	7.3
f		7.7
g		8.0
h		8.9
k		8.7
l		8.9
m		9.7
n		9.1
o		9.2
p		10.2?
q		just seen, but much too faint to measure
r		n.s.
s		n.s.
t		n.s.
u		n.s.
v		10.3?
c′	5.9	6.2
g′		8.2
o′		9.7



February 22, 1896

R Aurigae cont

Plate I 10364 taken Jan. 2, 1894

Superseded

a	3.5	3.8
b	5.3	5.6
c	—	
d	6.0	6.3
e	6.1	6.7
f	6.7	7.0
g	6.8	7.1
h		8.0
k		8.0
l		8.0
m		8.9
n		8.3
o		8.7
~~p~~ q		9.9
~~q~~ p		9.7
r		10.4?
s		10.7?
t		10.7?
u		n.s.
v		8.1
c′	5.1	5.4
g′		7.4
o′		9.0

February 22, 1896

Plate I 11908 taken Nov. 15, 1894

Superseded

a	4.8	5.1
b	6.3	6.6
d	7.1	7.4
e		7.7
f		8.0
g		8.1
h		8.9
k		8.7
l		9.0
m		9.6
n		9.1
o		9.4
p		10.1
q		10.3?
r		just seen
s		n.s.
t		n.s.
u		n.s.
v		n.s.
c′	6.3	6.6
g′		8.4
o′		9.7

February 22, 1896

R Aurigae cont

Plate I 12299 taken February 10, 1895

a	~~6~~5.4	5.7	Image very poor
b	~~7~~6.0	~~7~~6.3	
d	~~7~~6.6	~~7~~6.9	
e	7.0	7.3	Superseded
f		7.7	
g		7.7	
h		8.8	
k		8.6	
l		8.7	
m		9.4	
n		9.0	
o		9.2	
p		n.s.	
q		n.s.	
r		n.s.	
s		"	
t		"	
u		"	
v		9.5	
c′	6.1	6.4	
g′		8.0	
		Images poor	
o′		9.6	

Better plates found. To be remeasured in Volume three.

February 22, 1896

Plate C 6017 taken Sept. 30, 1893

a	4.0	~~4.3~~ ~~3.9~~ 3.8		
b	5.7	~~6.0~~ 5.5		
d	6.5	~~6.8~~ 6.3		Superseded
e	6.6	~~6.9~~ 6.4		
f	7.0	6.5		
g	7.0	6.5		
h		7.4		
k		7.2		
l		7.4		
m		8.3		
n		8.0		
o		8.2		
p		9.3?		
q		9.5–6?		
r		~~9.4?~~	9.8?	See note page 104
s		~~9.4?~~	n.S.	
t		~~9.7?~~	n.S.	
u		n.s.		
v		n.s.		
c′		5.7		
g′		6.7		
o′		8.7		

February 22, 1896

R Aurigae ant.

Plate C 6645 taken March 19, 1894

Superseded

a	4.0	3.5		
b	5.4	4.9		
d	6.0	5.5		
e	6.5	6.0		
f	6.8	6.3		
g	6.8	6.3		
h		7.6		
k		7.4		
l		7.6		
m		8.7		
n		8.2		
o		8.5		
p		9.7?		
q		9.8?		
r		~~9.7?~~	n.s,	note p.104
s		~~9.7?~~	n.s,	
t		n.s,		
u		n.s,		
v		7.0		
c′	5.5	~~5.5~~ 5.0		
q′	7.0	~~7~~6.5		
o′		8.8		

February 22, 1896

Plate C 7228 taken Nov. 16, 1894

Superseded

a	4.3	3.8		
b	5.6	5.1		
c	—			
d	6.5	6.0		
e	6.6	6.1		
f	7.0	6.5		
g	7.0	6.5		
h		7.3		
k		7.1		
l		7.4		
m		8.6		
n		8.1		
o		8.3		
p		9.4?		
q		9.4?		
r		~~9.4?~~	9.8?	note p.104
s		~~9.4?~~	n.s	
t		~~9.8?~~	n.s,	
u		n.s,		
v		9.7?		
c′	5.7	~~4~~5.2		
q′		6.8		
o′		8.7		

February 22, 1896

R. Aurigae cont.

Plate C 8285 taken Sept. 15, 1895

Superseded

a	2.9	2.4	
b	~~3~~4.7	4.2	
d	5.2	4.7	
e	5.3	4.8	
f	5.9	5.4	
g	5.9	5.4	
h	6.5	6.0	
k	6.4	5.9	
l	6.6	6.0	
m		7.1	
n		6.6	
o		7.0	
p		8.6	
q		8.8	
r		~~8.7~~	9.0
s		~~8.7~~	9.4?
t			9.8?,
u			n.s.
v	5.9		
c´	4.5	4.0	
g´	6.0	~~6.0~~ 5.5	
b´		7.3	

On all C Plates r, s, t, have been mistakenly identified first measures are crossed off and correct ones substituted. The mistake was made because of the extreme faintness of the stars. Others near them and slightly brighter were measured instead

February 22, 1896

Est R. Aurigae

a p q r s t u

very dark plate

P 29, 1887

P 1887

9.00 .12 18 18

~~9.01~~ ~~.01~~ 11 0

10.58

9

Pl 0

13.24 1

on film

Pl 0

ly seen

Pl 1891

13.44 .09 .09

Images very faint 11. ~~.06~~ .05

13.

11.

Pl 91 .14 .14

good plate 11 ~~12.~~ ~~.05~~ .05

12

Pl 1891

11.62

R. Aurigae

Is comp. star b variable?

It appears unduly faint

on I 5481

Also C 8285?

~~10.36~~ o = .2 v < 10.56

Plate I 2 3 9 4 taken Jan. 26, 1891

11.64 13.74 13.34 11.74 v = 13.81 ~~11.69~~

~~12.03~~ r 1 v ~~12.13~~ v = ~~12.13~~? 11.74? 0

s n.s.

February 22, 1896

R Aurigae cont.

Plate C 8285 taken Sept. 15, 1895

Superseded

a	2.9	2.4	
b	~~8~~4.7	4.2	
d	5.2	4.7	
e	5.3	4.8	
f	5.9	5.4	
g	5.9	5.4	
h	6.5	6.0	
k	6.4	5.9	
l	6.6	6.0	
m		7.1	
n		6.6	
o		7.0	
p		8.6	
q		8.8	
r		~~8.7~~	9.0
s		~~8.7~~	9.4?
t			9.8?,
u			n.s.
v	5.9		
c'	4.5	4.0	
g'	6.0	~~6.0~~ 5.5	
b'		7.3	

On all C Plates r, s, t, have been mistakenly identified first measures are crossed off and correct ones substituted. The mistake was made because of the extreme faintness of the stars. Others near them and slightly brighter were measured instead

February 22, 1896

Estimates of brightness of R Aurigae

a b d e f g k h l n o m p q r s t u

very dark plate

Plate B 1934 taken Nov. 29, 1887

v o k 9.~~52~~ 9.73 10.68 v = 9.~~52~~ 9.73 v = 10.68 0

Plate B 1984 taken Dec. 1, 1887

~~9.01~~ 9.00 9.82 g' ~~k~~ + 4 v 9.44 10.22 0 9.~~42~~ 63 10.58 v = 9.~~42~~ 52 v = 10.40 ~~.01~~ .12 18 11 18 0

~~9.42~~ 9.63 10.58 v 1 k 9.~~52~~ 9.73 10.68

Plate I 595 taken Feb. 5, 1890

13.24 11.4~~5~~8 p 1 v 11.~~55~~ 58? 13.34 v = 11.~~55~~ 58? v = 13.34? 0

q nearly effaced by scratch on film

Plate I 2283 taken Nov. 18, 1890

Too poor - images scarcely seen

Images very faint

Plate C 3337 taken Jan. 20, 1891

13.44 11.~~62~~ 52 q 2 v 11.~~82~~ 72 13.64 11.~~93~~ 54 13.64 v = 11.~~88~~ 63 v = 13.64 00 ~~.06~~ .09 00 ~~.05~~ .09

13.64 11.~~93~~ 54 v 1 r ~~12.03~~ 11.64 13.74

good plate

Plate C 3353 taken Jan. 26, 1891

~~12.03~~ 11.64 13.74 r 1 v 13.84 ~~12.13~~ 11.74 13.84 ~~12.03~~ 11.46 v = ~~12.08~~ 11.60 v = 13.84 ~~.05~~ .14 00 .05 14 00

~~12.03~~ 11.46 13.84 v 4 s 14.24 ~~12.43~~ 11.86

Plate C 3354 taken Jan. 26, 1891

v n. s

11.62 ~~10.36~~ 10.64 o = . r v < 10.~~56~~ 84 v < 11.8

Plate I 2$\overset{9}{\cancel{8}}\overset{2}{\cancel{9}}$4 taken Jan. 26, 1891

~~12.03~~ 11.64 13.74 r 1 v 13.84 ~~12.13~~ 11.74 v = ~~12.13~~? ~~11.69~~ 11.74? v = 13.84 0

s n. s

February 22, 1896

R Aurigae cont

Plate C 3362 taken Jan. 30, 1891
13.74 11.64 13.84 11.74 v=13.87 11.74?
~~12.03~~ r 1 v? ~~12.13~~ v = ~~12.13~~?
s n.s.

Trails and several images of each star. Identification doubtful.

Plate C 3363 taken Jan. 30, 1891
r n.s. v < 13.3
13.24 8 58
11.4~~5~~ p = .1 v < 10.~~55~~

Plate C 3370 taken Feb. 1, 1891
13.74 11.64 13.94 11.84 13.94 11.56 v=13.94 11.70 ∞.14 ∞.14
~~12.03~~ r 2 v ~~12.23~~ ~~12.13~~ v = ~~12.18~~ ~~.05~~ ~~.05~~
13.94 11.56 14.24 11.86
~~12.13~~ r 3 s ~~12.43~~

Plate C 3371 taken Feb. 1, 1891
r n.s. v < 13.5
13.44 52 62
11.~~62~~ q = .1 v < 11.~~72~~

Plate C 3395 taken Feb. 4, 1891
13.74 11.64 13.94 11.84 13.94 11.56 v=13.94 11.70 ∞.14 ∞.14
~~12.03~~ r 2 v ~~12.23~~ ~~12.13~~ v = ~~12.18~~ ~~.05~~ ~~.05~~
13.94 11.56 14.24 11.86
~~12.13~~ r 3 s ~~12.43~~

Plate C 33~~96~~ 420 taken Feb. ~~4~~ 8 1891
v < 13.8 11.64
r n.s. v < ~~12.13~~
13.74 11.64
~~12.03~~ r = .1

Plate C 3396 taken Feb. 4, 1891
13.74 11.64 13.94 11.84 v=13.94? 11.84
~~12.03~~ r 2 v ~~12.23~~ v = ~~12.23~~?
s n.s.

Plate C 3421 taken Feb. 8, 1896
13.74 11.64 13.94 11.84 13.94 11.56 v=13.94 11.70 ∞.14 ∞.14
~~12.03~~ r 2 v ~~12.23~~ ~~12.13~~ v = ~~12.18~~ ~~.05~~ ~~.05~~
13.94 11.56 14.24 11.86
~~12.13~~ r 3 s ~~12.43~~

Plate C 3426 taken Feb 8, 1896
13.74 11.64 13.94 11.84 13.94 11.56 v=13.94 11.70 ∞.14 ∞.14
~~12.03~~ r 2 v ~~12.23~~ ~~12.13~~ v = ~~12.18~~ ~~.05~~ ~~.05~~
11.56 13.94 14.24 11.86
~~12.13~~ r 3 s ~~12.43~~

February 24, 1896

Plate C 3427 taken Feb. 8, 1891
v < 13.5 62
r n.s. r < 11.~~72~~
13.44 52
11.~~62~~ q = .1

Plate C 3446 taken Feb. 11, 1891
13.74 11.64 14.14 12.04 13.94 11.56 v=14.24 11.80 10.24 10.24
~~12.03~~ r 4 v ~~12.43~~ ~~12.13~~ v = ~~12.28~~ ~~.15~~ ~~.15~~
13.94 11.56 14.24 11.86
~~12.13~~ v 3 s ~~12.43~~

Plate C 3447 taken Feb. 11, 1891
v < 13.9 11.84
r n.s. r < ~~12.23~~
13.74 11.64
~~12.03~~ r = .2

Plate C 3542 taken March 6, 1891
v < 13.5 62
r n.s. r < 11.~~72~~
13.44 52
11.~~62~~ q = .1

trails and multiplied images

Plate C 3613 taken April 8, 1891
v < 13.8 11.74
r n.s. r < ~~12.13~~
13.74 11.64
~~12.03~~ r = .1

Plate C 3642 taken April 22, 1891
v < 13.3 58
r n.s. r < 11.~~55~~
13.24 8
11.4~~5~~ p = .1

Plate C 3704 ~~taken~~ May 11, 1891
v < 13.3 58
r n.s. r < 11.~~55~~
13.24 48
11.~~45~~ p = .1

Plate C 3916 taken Aug. 28, 1891
10.68 9.73 v = 10.68
r o k ~~9.52~~

Plate C 4123 taken Oct. 29, 1891
7.93 34 8.13 54 8.86 74 v = 8.24 64 11.10 12.10
7.~~36~~ c′ 2 v 7.~~56~~ ~~7.81~~ r = 7.~~68~~ ~~.12~~ .13
8.31 74 8.66 8.04
7.~~81~~ v 3 d ~~8.11~~

near edge of plate

Plate I 5097 taken Dec. 11, 1891
9.00 31 v = 9.05
r o ε 8.~~36~~

February 24, 1896

R Aurigae cont.

Images very poor

Plate I 5-2~~2~~56 taken Dec. 1~~7~~8, 1891

r 0 g 9.64 8.~~76~~75 v = 9.64

Plate I 5-22~~7~~6 taken Dec. 17, 1891

Not on plate

Plate I 5-227 taken Dec. 17, 1891

r 0 f 9.53 8.~~70~~65 v = 9.53

Plate C 4314 taken Dec. 18, 1891

r 0 f 9.53 8.~~70~~65 v = 9.53

Plate I 5374 taken Jan. 8, 1892

r 0 g' 9.0~~1~~00 9.82 v = 9.82

Plate I 5441 taken Jan. 21, 1892

9.82 9.~~01~~00 g' 3 r 10.12 9.~~31~~30 10.34 9.~~42~~44 v = 10.24 v = 9.~~22~~37 12 .07 12 .07 ~~.09~~ ~~.10~~

10.36 9.~~42~~44 r 4 h 10.76 9.~~52~~84

Plate C 4509 taken March 7, 1892

r 0 o' 12.10 10.~~74~~83

Plate C 4510 taken March 7, 1892

12.10 10.~~74~~83 o' 1 r 12.20 10.~~84~~93 12.64 10.8~~5~~8 v = 12.42 v = 10.~~84~~90 22 .03 22 .02 ~~.00~~ ~~.01~~

12.64 10.8~~5~~8 r 6 p 13.24 11.4~~5~~8

Plate I 7610 taken Dec. 4, 1892

Too near edge

Plate I 7611 taken Dec. 4, 1892

Too near edge

February 24, 1896

Plate C 5245 taken Dec. 20, 1892

9.64 8.7~~6~~5 g 4 r 10.04 9.0~~6~~5 9.92 8.~~91~~90 v = 9.88 v = 8.98 16 .07 16 .08 ~~.08~~ ~~.07~~

9.72 8.~~91~~90 r 1 g' 9.82 9.0~~1~~0

Plate C 5307 taken Jan. 16, 189~~2~~3

9.05 8.~~36~~31 l 3 r 9.35 8.6~~6~~1 9.24 8.3~~6~~5 v = 9.30 v = 8.~~57~~48 05 .13 06 .13 ~~.15~~ ~~.15~~

9.24 8.3~~6~~5 r 4 g 9.64 8.~~76~~75

Plate I 7940 taken Jan. 21, 1893

8.66 8.~~11~~04 d 4 r 9.06 8.~~37~~44 8.95 8.~~26~~21 v = 9.06 v = 8.38 06 .16 05 .17 ~~.13~~ ~~.12~~

8.95 8.~~26~~21 r 1 e 9.05 8.~~36~~31

Plate C 5391 taken Feb. 26, 1893

r 0 d 8.66 8.~~11~~04 v = 8.66

Images intense - difficult to estimate

Plate C 5428 taken March 13, 1893

9.05 8.~~36~~31 l 1 r 9.15 8.~~46~~41 9.24 8.~~36~~35 v = 9.20 8.~~41~~38 05 .03 04 .03 ~~.05~~ ~~.05~~

9.24 8.~~36~~35 r 4 g 9.64 8.~~76~~75

Plate C 5429 taken March 13, 1893

9.05 8.3~~6~~1 e 2 r 9.25 8.5~~6~~1 9.14 8.2~~6~~5 v = 9.20 v = 8.~~41~~38 05 .13 06 .13 ~~.15~~ ~~.15~~

9.14 8.2~~6~~5 r 5 g 9.64 8.7~~6~~5

Images very intense

Plate C 5445 March 18, 1893

9.05 8.3~~6~~1 l 2 r 9.25 8.~~56~~51 9.34 8.~~46~~45 v = 9.30 v = 8.~~57~~48 05 .03 04 .03 ~~.05~~ ~~.05~~

9.34 8.~~46~~45 r 3 g 9.64 8.7~~6~~5

Plate C 5513 taken April 23, 1893

9.82 9.0~~1~~0 g' 4 r 10.22 9.~~41~~40 10.48 ~~9.32~~ .53 v = 10.35 v = 9.~~36~~46 13 .06 13 .07 ~~.05~~ ~~.05~~

10.48 9.~~32~~53 r 2 k 10.68 9.~~52~~73

Plate C 5873 taken Aug. 13, 1893

r n.s.

13.24 11.4~~5~~8 p = .1 v < 13.3 v < 11.~~55~~58

February 24, 1896

R Aurigae cont.

Plate C 5937 taken Sept. 3, 1893
12.10 83 v < 12.21 93
r n.s,
10.~~74~~ o′ = .1 v < 10.~~84~~,

Image extremely faint
Plate C 5938 taken Sept. 3, 1893
13.74 11.64
~~A~~ r o r? ~~12.03~~? v = 13.74?

Plate C 6011 taken Sept. 22, 1893
v < 13.4 6
13.44 52 r n.s. r < 11.~~7~~2
11.~~62~~ q < .1

Plate C 6012 taken Sept. 22, 1893
r n.s.
13.44 52 v < 13.5 62
11.~~62~~ q = .1 r < 11.~~72~~

Plate C 6017 taken Sept. 30, 1893
13.44 v < 13.5 62
r n.s, r < 11.~~72~~
11.52
~~11.62~~ q = .1

Plate C 6068 taken Oct. 11, 1893
r n.s,
12.10 83 v < 12.2 93
10.~~74~~ o′ = .1 r < 10.~~84~~

Plate C 6104 taken Oct. 16, 1893
14.24 11.86
r o s ~~12.43~~ v = 14.24

Plate I 9960 taken Nov. 20, 1893
v < 11.3 20
r n.s r < 10.~~10~~
11.32 20
10.~~10~~ n < .1

Plate C 6243 taken Nov. 22, 1893
12.10 83 12.40 13 12.84 8 v = 12.62 10 12. 03 12 .02
10.~~74~~ o′ 3 r 11.0~~4~~ 11.0~~5~~ r = 11.~~04~~ ~~.00~~ ~~.01~~
12.84 8 13.24 8
11.0~~5~~ r 4 p 11.4~~5~~

February 24, 1896

Plate C 6333 taken Dec. 13, 1893
11.32 20 11.62 50 11.42 10.30 v = 11.52 40 10 .10 10 .10
10.~~10~~ n 3 r 10.~~40~~ ~~10.16~~ v = 10.~~28~~ ~~.12~~ ~~.12~~
11.42 30 11.62 50
10.~~16~~ r 2 o 10.~~36~~

Plate I 10205 taken Dec. 18, 1893
Overlapping images - Comparison too uncertain

Plate I 10364 taken Jan. 2, 1894
10.76 84
r o ~~H~~ h 9.~~69~~ v = 10.76

Plate C 6456 taken Jan. 8, 1894
10.76 84
r o h 9.~~69~~. v = 10.76

Near edge of plate
Plate I 10416 taken Jan. 12, 1894
10.68 73
r o k 9.~~52~~ v = 10.68

Plate C 6576 taken Feb. 8, 1894
10.68 73
r o k 9.~~52~~ v = 10.68

Plate C 6644 taken March 19, 1894
9.82 0 10.32 50 10.48 9.53 v = 10.40 52 .08 .02 .08 .01
9.0~~1~~ q′ 5 r 9.~~51~~ ~~9.32~~ r = 9.~~42~~ ~~.09~~ ~~.10~~
10.48 53 10.68 73
9.~~32~~ r 2 k 9.~~52~~

Plate C 6645 taken March 19, 1894
9.82 0 10.32 50 10.48 53 v = 10.40 52 .08 .08
9.0~~1~~ q′ 5 r 9.~~51~~ 9.~~32~~ r = 9.~~42~~ ~~.09~~ ~~.10~~
10.48 53 10.68 73
9.~~32~~ r 2 k 9.~~52~~

Plate C 6662 taken March 27, 1894
9.82 0 10.12 30 10.28 33 v = 10.2 32 .08 .02 .08 .01
9.0~~1~~ q′ 3 r 9.~~31~~ 9.~~12~~ r = 9.~~22~~ ~~.09~~ ~~.10~~
10.28 33 10.68 73
9.~~12~~ r 4 k 9.~~52~~

February 24, 1896

R Aurigae cont.

Plate C 6711 taken April 25, 1894
wrong position

I was informed that this plate was useless, but Miss Wells brought it to me & it proves very good. April 2, 1896

~~Plate C 6765 taken May 8, 1894~~
7.40 7.70 8.36 v = 8.03 33 33
7.34 c´ 3 v 7.64 774 V = 7.69 .05 05
8.36 8.66
7.74 v 3 d 8.04
~~Plate C 6856 taken June 21, 1894~~

Plate C 7022 taken Sept. 11, 1894
12.10 83
v 0 o´ 10.~~44~~ v = 12.10

Plate C 7043 taken Sept. 23, 1894
12.10 83 12.60 33
10.~~74~~ o´ 5 v 11.~~24~~ ? v = 12.60 ?
p n.s.
Plate C 7044 taken Sept. 23, 1894
12.10 83 12.60 33 13.14 38 v = 12.87 36 27 03 27 02
10.~~74~~ o´ 5 v 11.~~24~~ 11.~~35~~ v = 11.~~30~~ ~~.06~~ .05
13.14 38 13.24 48
11.~~35~~ v 1 p 11.~~45~~
Plate C 7106 taken Oct. 14, 1894
13.24 48
v o p 11.~~45~~ v = 13.24

Plate I 11867 taken Nov. 11, 1894
13.74 11.64
v o r ? ~~12.03~~? v = 13.74?
Images very faint
Plate I 11908 taken Nov. 15, 1894
13.44 52 13.64 72
11.~~62~~ q 2 r ? 11.~~82~~? v = 13.64 ?
r n.s.

Images, very faint

February 24, 1896

Plate C 7228 taken Nov. 16, 1894
13.74 11.64
v o r ~~12.03~~ v = 13.74

Plate C 7340 taken Dec. 17, 1894
v < 13.3
v n.s. v < 11.55
13.24 8
11.4~~5~~ p = .1
Plate C 7454 taken Jan. 23, 1895
v n.s. v < 11.9 80
p n.s. v < 10.~~66~~
11.62 50
10.~~36~~ o = .3
Plate I 12296 taken Feb. 6, 1895
13.24 8
v o p ? 11.4~~5~~ v = 13.24 ?
Images too faint to estimate accurately
Plate I 12299 taken Feb. 10, 1895
12.10 83
v o o´ 10.~~74~~ v = 12.10

Plate C 7548 taken Feb. 20, 1895
11.62 50 11.72 60 11.86 53 v = 11.76 56 .04 .04 03
10.~~36~~ o 1 v 10.~~46~~ 10.~~44~~ v = 10.~~45~~ ~~.01~~ .01
11.80 53 12.10 83
10.~~44~~ v 3 o´ 10.~~74~~
Plate C 7600 taken March 5, 1895
11.32 20 11.52 40 11.32 20 v = 11.42 30 18 10 10 10 10
10.~~10~~ n 2 v 10.~~30~~ 10.~~06~~ v = 10.7 ~~.12~~ .12
11.32 20 11.62 50
10.~~06~~ v 3 o 10.~~36~~
Plate C 7648 taken March 30, 1895
10.68 73 10.98 10.03 11.22 10 v = 11.10 10.06 12 03 12 04
9.~~52~~ K 3 v ~~9.82~~ 10.~~00~~ v = ~~9.91~~ ~~.09~~ .09
11.22 10 11.32 20
10.~~00~~ v 1 n 10.~~10~~
Plate C 7649 taken March 30, 1895
10.68 73 10.88 93 11.12 10.00 v = 11.0 96 12 .03 12 04
9.~~52~~ K 2 v 9.~~72~~ 9.90 v = 9.~~81~~ ~~.09~~ .09
11.12 10.00 11.32 20
~~9.90~~ v 2 n 10.~~10~~

February 24, 1896

R Aurigae cont.

Plate C 7657 taken April 3, 1895
10.68 73 10.88 93 11.12 10.00 v = 11.00 96 12.03 12.04
9.~~52~~ k 2 r 9.~~72~~ ~~9.90~~ r = 9.~~81~~ ~~.09~~ .09
11.12 10.00 11.32 20
~~9.90~~ r 2 n 10.~~10~~

Plate C 7759 taken May 1, 1895
11.32 20
r 0 n 10.~~10~~ v = 11.32

Plate C 7807 taken May 6, 1895
useless

Plate C 7808 taken May 6, 1895
r n.s.
10.68 73 v < 10.8 83
9.~~52~~ k = .1 r < 9.~~62~~

Plate C 7823 taken May 7, 1895
10.68 73 10.98 10.03 11.22 10 v = 11.10 10.06 12.03 12.04
9.~~52~~ k 3 r ~~9.82~~ 10.~~00~~ r = ~~9.91~~ ~~.09~~ .09
11.22 10 11.32 20
10.~~00~~ r 1 m 10.~~10~~

Plate C 8026 taken July 23, 1895
7.93 4 8.33 4 8.56 7.94 v = 8.44 84 11 .10 12.10
7.3~~6~~ c' 4 r 7.7~~6~~ ~~8.01~~ r = 7.~~88~~ ~~.12~~ .13
8.56 7.94 8.66 04
~~8.01~~ r 1 d 8.~~11~~

Plate C 8088 taken Aug. ~~12~~ 2, 1895
7.93 34 8.23 64 8.46 84 v = 8.34 74 11 .10 12.10
7.~~36~~ c' 3 r 7.66 7.91 r = 7.7~~8~~ ~~.12~~ .13
8.46 84 8.66 04
7.91 r 2 d 8.~~11~~

Film dark over place of l
Plate C 8209 taken Sept. 1, 1895
9.05 31
r 0 ε ? 8.~~36~~ ? v = 9.05 ?

Plate C 8210 taken Sept. 1, 1895
9.05 31 9.15 41 9.52 70 v = 9.34 56 19 .15 18 14
8.3~~6~~ ε 1 v 8.4~~6~~ 8.71 v = 8.~~58~~ ~~.12~~ 13
9.52 70 9.82 00
8.~~71~~ r 3 g' 9.~~01~~

multiplied images
Plate C 8218 taken Sept. 2, 1895
9.05 31 9.15 41 9.52 70 v = 9.84 56 19 15 18 14
8.3~~6~~ ε 1 v 8.~~46~~ 8.~~71~~ v = 8.~~58~~ ~~.12~~ .13
9.52 70 9.82 0
8.~~71~~ r 3 g 9.0~~1~~

February 24, 1896

multiplied images
Plate C 8219 taken Sept. 2, 1895
9.05 31 9.15 41 9.52 8.70 v = 9.34 6 19 15 18 14
8.36 ε 1 v 8.4~~6~~ ~~9.71~~ v = 8.5~~8~~ ~~.12~~ .13
9.52 8.70 9.82 0
~~9.71~~ r 3 g' 9.0~~1~~

Plate C 8254 taken Sept. 5, 1895
9.05 31 9.35 61 9.32 50 v = 9.84 56 01 .05 02 .06
8.~~36~~ l 3 r 8.~~66~~ 8.~~51~~ r = 8.~~58~~ ~~.08~~ .07
9.32 50 9.82 00
8.~~51~~ r 5 g' 9.~~01~~

Plate C 8275 taken Sept. 13, 1895
9.05 31 9.45 71 9.42 60 v = 9.44 66 01 .05 02 .06
8.~~36~~ l 4 r 8.~~76~~ 8.~~61~~ v = 8.~~68~~ ~~.08~~ .07
9.42 60 9.82 00
8.~~61~~ r 4 g 9.~~01~~

Plate C 8285 taken Sept. 15, 1895
9.82 00
r 0 g' 9.~~01~~ v = 9.82

Plate C 8364 taken Oct. 10, 1895

Plate C 8472 taken Nov. 11, 1895
11.32 20
v 0 n 10.~~10~~ v = 11.32

Plate C 8478 taken Nov. 1~~8~~5, 1895
11.32 20 11.62 50 11.52 40 v = 11.57 45 05 .05 05 .05
10.~~10~~ n 3 v 10.~~40~~ 10.~~26~~ v = 10.~~33~~ ~~.07~~ .07
11.52 40 11.62 50
10.~~26~~ v 1 0 10.~~36~~

Plate C 8613 taken Dec. 17, 1895
12.10 83 12.30 11.03
10.~~74~~ o' 2 v ~~10.94~~ ? v = 12.30 ?
p n.s.

Plate C 8677 taken Dec. 22, 1895
v n.s.
12.10 83 v < 12.2 93
10.~~74~~ o' = .1 v < 10.~~84~~

February 24, 1896

R Aurigae Cont.

Plate C 8746 taken Jan. 11, 1896

10.68 73 r n.s. v < 10.9

~~9.52~~ k = .2 r < 9.72

Plate C 8880 taken Jan. 30, 1896

r n.s. v < 12.2

12.10 83

10.~~74~~ o′ = .1 r < 10.84

For means of additional plates I 771, 772, 7932 10232, 5481, 7864, 12050, 12515 see next volume page 21

February 24, 1896

R Aurigae

Plate C $82\overset{8}{2}5$ remeasured

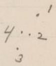
Superseded

a	2.9	2.4
b	4.5	4.0
d	~~4.2~~ 5.2	4.7
e	5.3	4.8
f	5.8	5.3
g	5.8	5.3
h	6.6	6.1
k	6.4	5.9
l	6.6	6.1
m		6.9
n		6.3
o		6.6
p		8.4
q		8.7
r		9.0
s		9.6?
t		9.7?
u		n.s.
v		5.5
c′	4.2	3.7
g′	6.0	5.5
o′		7.0

February 25, 1896

Measures of Pleiades (Iceland Spar)

Plate C 8836 taken Feb. 14, 1896

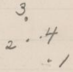


a	1	3.~~4~~7	
	2	5.9	
	3	3.8	
	4	5.8	
b	1	4.9	
	2	6.6	
	3	5.0	
	4	6.6	
c	1	~~6.9~~	6.9
	2	~~8.6~~	8.6
	3	~~6.8~~	6.8
	4	~~8.6~~	8.6

February 25, 1896

Pleiades continued (Iceland Spar)

Plate I 14442 taken Feb. 14, 1896



a^3	1	~~6~~5.8		Image elongated
a	2	~~8.1~~	8.0	
	3	~~4~~5.8		
	4		8.0	
a^4	1	6.1		
	2			
	3			
	4			
a^5	1			
	2			
	3			
	4			
b^3	1			
	2			
	3			
	4			
b^2	1			
	2			
	3			
	4			
b^3	1			
	2			
	3			
	4			

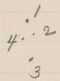
See later-

February 25, 1896.

Plate I 14443
Feb. 14 '96

Iceland Spar

Measures of Pleiades continued-



Wolf No.				
62 = c	1	2.8	3.1	
	2	5.6	5.9	
	3	4.5?	4.8?	Image much distorted
	4	5.6	5.9	
62^{b}_{1}	1	8	8.4	
	2		9.7	
	3		9.1	Image much elongated
	4		9.8	
91	1	5.6	5.9	
	2		8.3	
	3	6.2	6.5	
	4		8.3	
120	1	5.5	5.8	
	2		8.0	
	3	6.4	6.7	
	4		8.1	
146 = b	1	2.0	2.3	
	2	4.4	4.7	
	3	3.0?	3.3	Image much elongated
	4	4.5	4.8	
146^{b}	1		7.7	
	2		8.9	
	3		7.7	Image much elongated
	4		8.9	

February 25, 1896

Measures of plate I 14443 continued

Wolf Number			
169	1	~~8.0~~	8.0
	2		9.4
	3		7.8
	4		9.4
143	1	5.6	5.9
	2		8.3
	3	6.6	6.9
	4		8.4
196	1		8.2
	2		9.3
	3		7.5
	4		9.3
151	1	4.8	5.1
	2		7.8
	3	6.0	6.3
	4		7.8
141	1	6.6	6.9
	2		8.7
	3		7.2
	4		8.6

Measurement of 141 and 143 difficult because of their extreme closeness

February 25, 1896

Measures of plate I 14443 continued

Wolf Number			
182	1	4.4	
	2	6.9	7.2
	3	5.8	6.1
	4	6.9	7.2
129	1	3.9	
	2	6.4	6.7
	3	5.4	5.7
	4	6.5	6.8

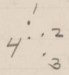
Numbers apparently those of Wolf's Catalogue

February 25, 1896

Iceland Spar

Measures of Pleiades cont,

Plate I 14442 taken Feb. 14, 1896



a'	1	5.0?	5.3?	
very poor images	2	~~8.0~~	7.0?	
	3	6.1	6.4	
	4		7.0?	
a^2	1	5.9	6.2	very poor, elongated image
	2		8.0?	
	3	6.8	7.1	
	4		8.1	
a^3	1	~~6~~5.9	6.2	
	2		8.1	
	3	5.8	6.1	
	4		8.1	
a^4	1	6.3	6.6	
	2		8.3	
	3	5.5	5.8	
	4		8.3	
a^5	1	6.1	6.4	Image much elongated, very poor
	2		8.7	
	3		6.0?	Very poor, blurred image
	4		8.6	

a = DM. +22° 563 $3^h 39^m.8$ +22° 58'.8 (1855) magn 6.9

b = DM +23° 553 3 39.9 +23° 54'.0 " 7.8

February 25, 1896

Iceland Spar

Plate 14442, continued

b^1	1	7.0?	blurred, distorted, elongated
	2	10.0?	"
	3	7.9	good image
	4	10.0?	
b^2	1	7.4?	very poor image
	2	9.4	
	3	8.1	
	4	9.3	
b^3	1	7.3	image poor
	2	9.2	
	3	7.8	
	4	9.2	
b^4	1	7.7	
	2	9.5	
	3	8.0?	
	4	9.4	
b^5	1	8.0	
	2	10.0	
	3	8.5	
	4	10.0	

February 26, 1896

Remeasured from page 93-96

Measures of Pleiades cont-

Plate B 1033 taken Jan. 18, 1887

a	-		
b	-		
c	-		
d	-		
e	2.1	2.4	
f	2.9	3.2	
g	3.0	3.3	
h	3.3	3.6	
i	3.8	4.1	
j	4.1	4.4	
k	5.9	6.2	
l	6.~~4~~ 6	6.~~7~~ 9	6.6 6.9 2nd. measured (see meas. p. 93)
m		8.2	
n		9.1	
o		9.7	

February 26, 1896

Measures of pleiades cont.

Plate B 20~~9~~57

a	~~2.0~~		
b			
c			
d			
e	2.0	2.3	
f	2.8	3.1	
g	2.8	3.1	
h	3.1	3.4	
i	3.5	3.8	
j	3.8	4.1	
k	5.1?	5.4?	Image elongated
l	6.4	6.7	" "
m		7.8?	" "
n		10.0	
o	~~10.3~~	10.3?	

February 6, 1896

Pleiades cont.

Plate B 3159

a	~~3.9~~		
b			
c			
d			
e	3.9	4.2	
f	4.3	4.6	
g	4.4	4.7	
h	4.7	5.0	
i	4.9	5.2	
j	5.3	5.6	
k		7.7?	Image much elongated
l		8.7?	" " "
m		9.6	" " "
n		Too faint	
o		" "	
p			

February 26, 1896

Pleiades continued

Plate I 199 taken Nov. 29, 1889

a		
b		
c		
d		
e	$\overset{3}{\cancel{4}}$.1	3.4
f	$\overset{3}{\cancel{4}}$.9	4.2
g	$\overset{4}{\cancel{5}}$.0	4.3
h	4.3	4.6
i	4.7	5.0
k	6.3	6.6
l		7.3
m		8.3
n		9.2
o		9.9
p		
j	5.1	5.4

February 28, 1896

Measures of the photographic brightness of the comparison stars to R Lyncis.

Plate I 597 taken Feb. 5, 1890.

Superseded

a	4.1	
b	5.0	
c	5.4	
d	5.8	6.1
e	6.1	6.4
f	6.2	6.5
g		7.7
h		7.8
k		8.5
l		8.1
m		8.4
n		8.7
o		8.7
p		9.3
q		9.1
r		9.7
s		9.9
t		n.s.
u		n.s.
v		9.1

February 28, 1896

R Lyncis cont.

Plate I 9863 taken Oct. 31, 1893

Superseded

a	5.2	5.5	
b	5.7	6.0	~~Image~~ elongated.
c	5.9	6.2	
d	5.9	6.2	Image elongated
e	6.2	6.5	" "
f	6.6	6.9	
g		7.4?	Image much elongated
h		7.9?	" " "
k		8.9	
l		8.8	
m		8.6	Images very poor
n		9.2	
o		9.1	
p		9.8	
q		10.0	
r		n.s.	
s		n.s.	
t		n.s.	
u		n.s.	
v		10.3?	

February 28, 1896

R Lyncis cont

Plate I 10897 taken March 24, 1897

a	4.3	Superseded	
b	5.2?		Image much elongated near edge
c	5.7	6.0	
d	5.7?	6.0?	Image elongated, toward edge
e	5.9	6.2	
f	6.2	6.5	
g	6.7	7.0	
h	7.1	7.4	
k		8.2	
l	~~8~~	8.0	
m		8.0	
n		8.5	
o		8.5	
p		9.6	
q		9.7	
r		10.0	
s		10.4?	
t		10.3?	
u		n.s.	
v		8.7	

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

Estimates of the brightness of R Lyncis

a b c d e f g h h' ~~k~~ m k n o o' p q r s

Edge of plate

Plate B 1936 taken Nov. 29, 1889
v n.s. r < 11.86
11.66 p = .2

Plate B 1959 taken Nov. 30, 1889 ✓
14.52
v n.s. r < 12.32
14.42
12.22 s = .1

Plate I 597 taken Feb. 5, 1890
12.24 ~~11.71~~ 12.21
11.26 o $=o^2$ 5 v 11.76 11.56 v = 11.66 .10 .10
11.56* v 1 p 11.66

Plate C 3350 taken Jan. 24, 1891

Images extremely faint

14.42 14.52 14.24 14.38? 14 14
12.22 s 1 v 12.32 11.94 v = 12.13? .19 .19
14.24 14.54
11.94 v 3 t ? 12.24

Plate C 3356 taken Jan. 26, 1891
11.21
v n.s. r < 10.64
11.11
10.54 m = .1

Plate C 3364 taken Jan. 30, 1891

Images very faint

13.73 13.83?
11.98 r $=r'$ 1 v 12.08?
s n.s.

Images clear

Plate C 3365 taken Jan. 30, 1891
13.73
v o r $=r'$ 11.98

Plate C 3372 taken Feb. 1, 1891
13.03 13.63 13.63 13.63_5 00_7 00
11.62 q 6 v 12.22 11.88 v = 12.04 .18 .17
13.63 13.73
11.88 v 1 r $=r'$ 11.98

Plate C 3373 taken Feb. 1, 1891
~~11.81~~ 12.34
v n.s. r < 11.36
~~11.71~~
12.24 11.26 o $=o^2$ < .1

* Star "p" suspected of variability, and rejected. Hence no measures made with this star are employed

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Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

Plate C 3376 taken Feb. 1, 189~~6~~1
~~11.81~~ 12.24
v n.s. r < 11.36
12.24 ~~11.71~~
11.26 o $=o^2$ < .1

Plate C 3377 taken Feb. 1, 189~~6~~1
13.73 ?
v o r $=r'$? 11.98 ?
(v and r < .1

Plate C 3397 taken Feb. 4, 189~~6~~1
13.03 13.43 13.53 13.48 05 05
11.62 q 4 v 12.02 11.78 v = 11.90 .12 .12
13.53 13.73
11.78 v 2 r 11.98

Plate C 3398 taken Feb. 4, 189~~6~~1
13.03 ~~13~~ 13.43 13.53 13.48 05 05
11.62 q 4 v 12.02 11.78 v = 11.90 .12 .12
13.53 13.73
11.78 v 2 r 11.98

Plate C 3448 taken Feb. 11, 1891
* v 0 p 11.66

Plate C 3449 taken Feb. 11, 1891
* v 0 p 11.66

Plate C 3519 taken March 1, 1891

Defect in film near o

~~11.71~~ 12.64
12.24 11.26 o $=o^2$ 4 v 11.66 11.46 v = 11.56 .10 .10
11.46 v 2 p 11.66

Plate C 3520 taken March 1, 1891
~~11.71~~ 12.64
12.24 11.26 o $=o^2$ 4 v 11.66 11.46 v = 11.56 .10 .10
11.46* v 2 p 11.66

Plate C 3535 taken March 5, 1891
~~11.71~~ 12.64
12.24 11.26 o $=o^2$ 4 v 11.66 11.46 v = 11.56 .10 .10
11.46* v 2 p 11.66

* See note p. 132

Reduced Dec. 19, 1914
G. F. M.

February 28, 1896

R Lyncis cont.

v was hidden, being very faint, by the circle of ink round it

Plate C 3553 taken March 11, 1891
11.71 11.91 12.93 12.42 51 51
~~v n.s.~~ 11.26 o ´2 v 11.46 11.52 v = 11.49 .03 .03
12.93 13.03
q = .1 11.52 v 1 q 11.62

good plate

Plate C 3571 taken March 19, 1891
~~11.71~~ ~~11.91~~ 12.44
12.24 11.26 $o^{=0^2}$ 2 v 11.46 11.26 v = 11.36 .10 .10
11.26* v 4 p 11.66

Plate C 3589 taken March 29, 1891
10.93 12.21 12.04 12.12 09 08
11.71 ~~11.26~~ $o^{=0'}$ 5 v 11.43 11.06 v = 11.24 .19 .18
12.04 12.24
11.06 v 2 $o^{=0^2}$ 11.26

Plate C 3614 taken April 8, 1891
11.71
v o $o^{=0'}$ 10.93

Plate C 3698 taken May 10, 1891
9.79
v o g 9.42

Images very faint

Plate* C 4018 taken Sept. 30, 1891
v o p? 11.66?

Plate I 5057 taken Dec. 10, 1891
12.34
v n.s. v < 11.36
12.24
11.26 $o^{=0^2}$ = .1

Plate I 5516 taken Feb. 4, 1892
13.13
v n.s. ~~q =~~ v < 11.72
13.03
11.62 q = .1

Plate I 5579 taken Feb. 9, 1892
13.73 13.83?
~~v n.s.~~ 11.98 r 1 p^{v} s n.s. v = 12.08?
13.73 r = .1

Very clear plate

Plate I 5649 taken Feb. 15, 1892
12.24 12.74
11.26 q $o^{=0^2}$ 5 v 11.76 11.56 v = 11.66 .10 .10
11.56 * v 1 p 11.66

* See note p. 132

Reduced Dec. 19, 1914
G. F. M.

Feb. 28, 1896

Images very faint

Plate I 5740 taken Feb. 18, 1892
* v o p 11.66

Plate C 4540 taken March 16, 1892
11.71 12.11 11.94 12.02 09 08
~~12.24~~ 10.93 $o^{=0^2}$ 4 v 11.33 10.96 v = 11.14 .19 .18
11.94 12.24
10.96 v 3 $o^{=0^2}$ 11.26

Plate C 4541 taken March 16, 1892
11.71
~~11.26~~ $o^{=0^2}$ 4 v 12.11 11.94 v = 12.02 09 08
11.94 v 3 $o^{=0^2}$ 12.24

Plate C 4589 taken March 29, 1892
11.11 11.61 11.61 v = 11.61 00 00
10.54 m 5 v 11.04 10.83 v = 10.94 .10 .11
11.61 11.71
10.83 v 1 $o^{=0'}$ 10.93

Plate I 7615 taken Dec. 4, 1892.
13.13
v n.s. v < 11.72
13.03
11.62 q = .1

Plate C 5308 taken Jan. 16, 189~~2~~3
13.93
v n.s. v < 12.18
13.73
11.98 r = .2

Plate C 5376 taken Feb. 15, 189~~2~~3
14.54 15.04?
12.24 t 5 v 12.74?
r n.s.

Plate C 5423 taken March 8, 1893
13.13
v n.s. v < 11.72
13.03
11.62 q = .1

Plate C 5449 taken March 19, 1893
12.24
11.26 $o^{=0^2}$ 4 ~~p~~ v 11.66 11.46 v = 11.56 .10 .10
11.46* v 2 p 11.66

* See note p. 132.

Reduced Dec 19, 1914
S. F. M.

February 28, 1896

R Lyncis cont.

Plate C 5451 taken March 20, 189~~6~~3
12.24 12.54 3
11.26 O =o² 3 r 11.56 11.~~4~~6 r = 11.46 .10 .10
*
11.36 r 3 p 11.66

Plate C 5452 taken March 20, 189~~6~~3
12.24 12.54
11.26 O =o² 3 r 11.56 11.36 r = 11.46 .10 .10
*
11.36 r 3 p 11.66

Plate C 5308 taken April 19, 189~~6~~3
11.15 R 11.25 11.31 11.28 03 03
10.62 ~~m~~ 1 r 10.72 10.53 r = 10.62 .10 .09
11.31 11.71
10.53 r 4 o =o' 10.93

Plate C 5625 taken June 26, 1893
9.79
r o q 9.42

a very poor plate

Plate C 5652 taken July 2, 1893
9.89
r n.s. r < 9.52
9.79
9.42 q = .1

Plate C 6035 taken Oct. 7, 1893 Reject. See Book 37:116
13.73?
r o r ? 11.98?

Images scarcely visible

Plate C 6036 taken Oct. 7, 1893 Reject. See Book 37:116
13.73 13.83 14.22 13.98 15 14
~~14.02~~ ~~19~~ ~~20~~
11.98 r 1 r 12.08 9.92 r = 12.00 .08 .08
14.22 14.42
9.92 r 3 s 12.22

Plate C 6105 taken Oct. 16, 1893
13.83
r n.s. r < 12.08
13.73
11.98 r =r' < .1

Obs. doubtful - Images barely seen - near edge of plate

Plate I 9802 taken Oct. 28, 1893
11.66 *p 1 r + r = 11.76?
r n.s.

* See note p. 132

Reduced Dec 19, 1914

February 26, 1896

doubtful

Plate I 9838 taken Oct. 30, 1893
13.73?
r ~~n.s.~~ o r =r' 11.98?
r = .1

Plate I 9862, Oct. 31, 1893
13.73?
r o r =r' ? 11.98?

Plate I 9863 taken Oct. 31, 1893
13.73
r n.s. r < 12.00
13.73
11.98 r =r' < .1

Plate C 6244 taken Nov. 22, 1893
r n.s. r < 11.86
11.66 p = .2

good plate

Plate C 6245 taken Nov. 22, 1893
14.54
r o t 12.24

Plate I 10125 taken Dec. 4, 1893
14.64
r n.s. r < 12.34
14.54
12.24 t = .1

Plate I 10195 taken Dec. 17, 189~~5~~3
13.83
r n.s. r < 12.08
13.73
11.98 r =r' = .1

Plate C 6373 taken Dec. 20, 189~~5~~3
14.74
r n.s. r < 12.44
14.54
12.24 t = .2

very dark plate

Plate I 10271 taken Dec. 28, 1893
12.24 12.34?
11.26 ~~r n.s.~~ o² =o' 1 r r = 11.36?
o² =o' = .1

Reject. Not seen. See Book 37:116 Feb. 19, 1915.

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

R Lyrae cont.

Dark plate, near edge

Plate I 10273 taken Dec. 23, 1893
0² 12.24?
r 0 0' ? 11.26?   Rejected. Not seen. See Book 37:116 Feb. 19, 1915

Plate I 10306 taken Dec. 26, 1893
14.54?
r 0 t ? 12.24 ?   ~~Reject~~

Plate C 6575 taken Feb. 8, 1894
13.83
r n.s.   r < 11.92
13.03
11.62 q = .3

Plate I 10893 taken March 24, 1894
11.71 0' 12.11 12.04 12.08 .03 .04
10.93 = 0 4 r 11.33 11.06 r = 11.20 .13 .14
12.04 0² 12.24
11.06 r 2 0 = 11.26

Plate I 10897 taken March 24, 1894
11.71 0' 12.21 11.94 12.08 .13 .14
10.93 = 0 5 r 11.43 10.96 r = 11.20 .23 .24
11.94 0² 12.24
10.96 r 3 0 = 11.26

Plate C 6661 taken March 27, 1894
11.71 0' 11.81 11.54 11.68 .13 .14
10.93 = 0 1 r 11.03 10.56 r = 10.80 .23 .24
11.54 0² 12.24
10.56 r 7 0 = 11.26

very dark plate - poor images

Plate C 6669 taken March 28, 1894
11.71 0' 11.91 11.54 11.72 .19 .18
10.93 = 0 2 r 11.13 10.76 r = 10.94 .19 .18
11.54 0² 12.24
10.76 r 5 0 = 11.26

Plate C 6670 taken March 30, 1894
11.71 0' 11.81 11.64 11.72 .09 .08
10.93 = 0 1 r 11.03 10.66 r = 10.84 .19 .18
11.64 0² 12.24
10.66 r 6 0 = 11.26

Plate C 6710 taken April 25, 1894
11.15 11.25 11.61 11.43 .18 .18
10.62 k 1 r 10.72 10.83 r = 10.78 .06 .05
11.61 0' 11.71
10.83 r 1 0 = 10.93

m 50

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

Plate C 6764 taken May 8, 1894
11.15 11.25 11.51 11.38 .13 .13
10.62 ~~m~~ k 1 r 10.72 10.73 r = 10.72 0 .01
11.51 0' 11.71
10.73 r 2 0 = 10.93

Plate C 6855 taken June 21, 1894
9.08 9.68 9.39 9.54 .14 .15
8.64 f 6 r ~~9.24~~ ~~8.70~~ 9.09 r = 9.16 .08 .09
9.39 9.79
9.09 r 4 q 9.49

Plate C 7023 taken Sept. 11, 1894
12.24 0² 12.34
11.54 = 0 1 r 11.64 11.34 r = 11.49 .15 .15

11.34 r 5 p 11.84

Plate C 7100 taken Oct. 11, 1894
r n.s.   r = 11.96

11.66 p = .3

Plate C 7101 taken Oct. 11, 1894
13.13
r n.s.   r < 11.72
13.03
11.62 q = .1

Plate C 7107 taken Oct. 14, 1894
13.73?
r 0 r ? 11.98 ?

The image of r is very diffuse different from all the other images

Plate C 7227 taken Nov. 16, 1894
11.25
r n.s.   r < 10.72
11.15
10.62 k = .1

Plate C 7341 taken Dec. 17, 1894
r n.s.   r < 11.86

11.66 p = .2

Plate C 7455 taken Jan. 23, 1895
13.93
r n.s.   r < 12.18
13.73
11.98 r = .2

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

R Lyncis cont.

Plate I 12302 taken Feb. 10, 1895
* v n.s. v < 11.86
11.66 p = .2

Plate C 7549 taken Feb. 20, 1895
v n.s. v < 11.86
* 11.66 p = .2

Plate I 12440 taken Feb. 23, 1895
12.34
v n.s. v < 11.36
12.24 =o²
11.26 o =.1

Plate C 7601, taken March 5, 1895
* 11.66 p 3 v 11.96?
r n.s.

Plate C 765~~6~~5 taken ~~March 5~~ April 3, 1895
11.15 11.45 11.61 11.53 08 08
10.62 K 3 v 10.92 10.83 v = 10.88 .04 .05
11.61 11.71
10.83 v 1 o =o' 10.93

Plate I 12513 taken March 16, 1895
12.24?
v 0 o ≤o² ? 11.26?

Images very faint and poor - edge of plate

Plate C 7656 taken April 3, 1895
11.15 11.35 11.~~43~~51 11.43 08 08
10.62 K 2 v 10.82 10.73 v = 10.78 .04 .05
11.51 11.71
10.73 v 2 o =o' 10.93

Plate C 7658 taken April 3, 1895
11.15 11.45 11.61 11.53 08 08
10.62 K 3 v 10.92 10.83 v = 10.88 .04 .05
11.61 11.71
10.83 v 1 o =o' 10.93

Plate C 7760 taken May 1, 1895
11.11
v 0 m 10.54

* See note p. 132

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

Plate C 7809 taken May 6, 1895
10.18 =k 10.98 11.01 11.00 02 01
9.76 k 8 v 10.56 10.44 v = 10.50 .06 .06
11.01 11.11
10.44 v 1 m 10.54

Plate C 7824 taken May 7, 1895
10.18 11.08 11.01 11.04 04 03
9.76 k 9 v 10.66 10.44 v = 10.54 .11 .11
11.01 11.11
10.44 v 1 m 10.54

Plate C 8089 taken Aug. 2, 1895
10.18 10.68 10.81 10.74 06 07
9.76 k 5 v 10.26 10.24 v = 10.25 .01 .01
10.81 11.11
10.24 v 3 m 10.54

Plate C 8240 ~~taken~~ Sept. 4, 1895
12.24?
v 0 o =o² ? 11.26?

Images faint and poor.

Plate C 8255 ~~taken~~ Sept. 5, 1895
11.71 12.01 11.984 11.98 03 04
10.93 o =o' 3 v 11.23 10.96 v = 11.10 .13 .14
11.94 12.24
10.96 v 3 o ≤o² 11.26

Plate C 8286 taken Sept. 15, 1895
=o² 12.24
v 0 o 11.26

Poor plate Plate C 8329 ~~taken~~ Oct. 1, 1895
v n.s.? Film may have defect here
13.03 13.23
11.62 q = .2 v < ~~12.82~~? v = 11.82

Plate C 83~~4~~30 taken Oct. 1, 1895
13.03 13.13 13.33 13.23 10 10
11.62 q 1 v 11.72 11.58 v = 11.65 .07 .07
13.33 13.73
11.58 v 4 r =r' 11.98

Plate C 8343 taken Oct. 6, 1895
13.03
v 0 q 11.62

Reduced Dec. 19, 1914
G.F.M.

February 28, 1896

R Lyncis cont.

Plate C 8354, taken Oct. 8, 1895
11.71 ~~10.95~~ o =0' 3 r 12.01 v = 12.77 76 76
13.53 r 2 2 13.73 11.

Plate C 8473 taken Nov. 11, 1895
14.54 12.24 t 1 v 14.64? 12.34?
n n.s.

Plate C 8614 taken Dec. 17, 1895
v n.s. r < 12.34 11.36
12.24 11.26 o =02 = .1

Plate C 8664 taken Dec. 20, 1895
v n.s. r < 12.34 11.36
12.24 11.26 o =02 = .1

Plate C 8747 taken Jan. 11, 1896
v n.s. r < 12.34 11.36
12.24 11.26 o =02 = .1

Plate C 8802 taken Jan. 30, 1896
v n.s. v < 13.23 11.82
13.03 11.62 q = .2

For additional plates I 344, I 1068, I 3090, I 7049, I 8148, I 8478, I 10026, I 10104, and plates later than Jan. 30, '96, see next volume Page 19

March 9, 1896

Measures of brightness of O.C. Wendell's comparison stars to R Ursae Majoris.

Plate I 838 taken March 17, 1890

a	5.8	6.1	
b	6.6?		Image very much elongated
c			not on plate
d	6.3	6.7	
e			not on plate
f	5.8	6.1	
g	6.7	7.0	
h	6.6	6.9	
k		7.6?	Image much elongated
l		9.7	
m		7.9	
n		8.2	Image much elongated
o		8.1	
p		8.~~7~~5	
q		8.7	These measures superseded
r		8.8	
s		9.8	
t		9.7	
u		10.0	
w		n.s.	
x		n.s.	
y		n.s.	
v		n.s.	

Near corner of plate. Some images very poor

March 9, 1896

Plate I ~~8316~~ 3170 ~~taken March 29, 1893~~ Feb. 22, '91 RMo. Maj.

a	5.8	6.1	
b	6.5	6.8	
c	Image too poor to measure		
d	5.5?	5.8?	Image much elongated
e	5.7	6.0	
f	6.2	6.5	
g	6.7	7.0	These measures superseded
h	6.4	6.7	
k		7.6	
l	6.7	7.0	
m		8.0	
n		8.6	
o		8.6	
p		9.0	
q		9.1	
r		9.1	
s		9.7	
t		10.0	
u		10.2?	
w		~~10.2?~~ n.s.	
x		n.s.	
y		10.2?	
z		n.s.	
v		n.s.	

Toward corner of plate

March 9, 1896

Plate I 8316 taken March 29, 1893

a	5.7	6.0	
b	6.3	6.6	
c	4.8?		Very poor image
d	5.5?	5.8?	Image much elongated
e	5.9	6.2	
f	6.2	6.6	
g	6.7	7.1	
h	6.3	6.6	
k		7.4	
l	6.6	6.9	
m		8.0	These measures superseded
n		8.2	
o		8.2	
p		8.8	
q		9.0	
r		9.1	
s		9.8	
t		9.9	
u		10.1?	
w		n.s.	
x		n.s.	
y		n.s.	
z		n.s.	
v		9.5	

Toward side of plate

Reduced March 1915
S.F.M.

March 9, 1896

Estimates of brightness of R Ursae Majoris

a f b h l g k m n o p q r s t u.

Comparison stars arranged in order of photographic brightness.

Plate I 737 taken Mar. 3, 1890
v n.s. v < 14.60
14.50 x = .1

Plate I 943 taken April 2, 1890
12.94 v o t 12.94 v = 12.94

Plate I 946 taken April 2, 1890
12.94 v o t 12.94 v = 12.94

Plate C 3366 taken Jan. 30, 1891
14.50 v o x 14.50 v = 14.50

Plate C 3374 taken Feb. 1, 1891
v n. s. v < 13.53
13.43 u = .1

Plate C 3375 taken Feb. 1, 1891
v n. s. v < 13.04
12.94 t = .1

Plate C 3378 taken Feb. 1, 1891
v n. s
13.43 u = .1 v < 13.53

Reduced March 1915
S.F.M.

March 9, 1896

Plate C 3379 taken Feb. 1, 1891
v n. s. v < 13.04
12.94 t = .1 13.04

Plate C 3390 taken Feb. 2, 1891
v n. s. v < 12.18
11.78 r = .4
s + t n. s.

Plate C 3399 taken Feb. 4, 1891
14.50 v o x 14.50 v = 14.50

Plate C 3400 taken Feb. 4, 1891
v n. s. v < 13.53
13.43 u = .1

Plate C 3415 taken Feb. 5, 1891
v n. s. v < 13.63
13.43 u = .2

Reject this estimate as w is rejected. Est. by MI. 8:107

9
Plate C 3428 taken Feb. 10, 1891
v o w ?
Identification of w uncertain
x n. s. u = .4

Plate C 3450 taken Feb. 11, 1891
14.02 u 2 v 14.22 14.10 v = 14.16 06 06
14.10 v 4 x 14.50

good plate

Plate C 3451 taken Feb. 11, 1891
v n. s. v < 10.4
10.38 n < .1

Reduced March 1915
G.F.M.

March 10, 1896

R Urs. Maj. cont

Plate C 3462 taken Feb. 12, 1891
r n. s. v < 13.53

13.43 u = .1
Plate C 3499 taken Feb. 22, 1891
13.43 v 0 u 13.43 v = 13.43

good plate
Plate C 3500 taken Feb. 22, 1891
13.43 r 0 u 13.43 v = 13.43

Plate I 3159 taken Feb. 22, 1891
r n. s. v < 12.9

12.94 t < .1
Plate I 3160 taken Feb. 22, 1891
r n. s. v < 12.6

12.60 s < .1
Plate I 3170 taken Feb. 22, 1891
r n. s. v < 13.4

13.43 u < .1
Plate I 3171 taken Feb. 22, 1891
v n. s. v < 11.8

11.78 r < .1
trails Plate C 3510 taken Feb. 27, 1891
13.43 u 3 r 13.73 13.92 v = 13.82 09 10
13.92 v 1 u′ 14.02
Plate C 3521 taken March 1, 1891
13.43 u 2 r 13.63 13.72 v = 13.68 05 04
13.72 r 3 u′ 14.02

Reduced March 1915
G.F.M.

March 10, 1896

Plate C 3536 taken March 1, 1891
12.94 t 5 r 13.44 13.33 v = 13.38 06 05
13.33 r 1 u 13.43
Plate C 3546 taken March 7, 1891
v n. s. v < 12.70

12.60 S = .1
Plate C 3565 taken March 16, 1891
11.78 r 1 v 11.88 11.90 v = 11.89 01 01
11.90 v 7 s 12.60
Plate C 3615 taken April 8, 1891
9.44 l′ 4 v 9.84 10.11 v = 9.98 14 13
10.11 v 2 m′ 10.31
Plate C 3654 taken April 26, 1891
8.32 h 8 r ? 9.12 ? 9.34 v = 9.23 ? 11 11
9.34 r 1 ~~m~~ l′ 9.44
Plate C 3678 taken May 1, 1891
8.32 h 7 v 9.02 9.24 v = 9.13 11 11
9.24 v 2 l′ 9.44
Plate C 4168 taken Nov. 11, 1891
r n. S. v < 12.70

12.60 S = .1
Plate C 4169 taken Nov. 11, 1891
r n. S. v < 11.98

11.78 r = .2
Very doubtful - Comparison stars two widely scattered images different
Plate I 6062 taken Apr. 11, 1892
9.25 l 1 v 9.35 9.04 v = 9.20 15 16
9.04 v 4 l′ 9.44

Reduced March 1915
G.F.M.

March 10, 1896

R Nor. Maj.

Edge of plate – Comp. stars scattered

Plate I 6067 taken Apr. 11, 1892
9.44 v 0 l ? 9.44 v = 9.44?

Plate C 4668 taken Apr. 20, 1892
9.44 v 0 l 9.44 v = 9.44

Very poor plate

Plate C 4699 taken May 4, 1892
10.31 v 0 m ? 10.31? v = 10.31?

Very poor plate

Plate C 4700 taken May 4, 1892
10.28 v 0 m ? 10.28 v = 10.28

Plate C 5324 taken Jan. 20, 1893
9.44 v 0 l 9.44 v = 9.44

Plate C 5325 taken Jan. 20, 1893
9.44 v 0 l 9.44 v = 9.44

Plate C 5377 taken Feb. 15, 1893
9.44 l 5 v 9.94 10.01 v = 9.98 04 03
10.01 v 3 m 10.31

Extreme corner Edge of plate

Plate I 8109 taken Feb. 26, 1893
10.38 n 5 v 10.88 10.28 v = 10.58 30 30
10.28 v 10 10.38

Edge of plate

Plate I 8110 taken Feb. 26, 1893
10.38 v 0 o 10.38 v = 10.38

Extreme edge of plate

Plate I 8131 taken Feb. 27, 1893
10.38 o 3 v 10.68 ? v = 10.68?
p + q not on plate

Reduced March 1915
G.F.M.

March 10, 1896

Plate I 8132 taken Feb. 27, 1893
10.38 o 5 v 10.88 11.05 v = 10.96 08 09
11.05 v 1 p 11.15

Plate I 8133 taken Feb 27, 1893
10.38 o 5 v 10.88 11.05 v = 10.96 08 09
11.05 v 1 p 11.15

long trails

Plate C 5450 taken March 19, 1893
11.78 r 3 v 12.08 12.10 v = 12.09 01 01
12.10 v 5 s 12.60

edge of plate

Plate I 8310 taken March 29, 1893
11.78 r 1 v 11.88 12.20 v = 12.04 16 16
12.20 v 4 s 12.60

edge of plate

Plate I 8311 taken March 29, 1893
11.78 r 2 v 11.98 12.10 v = 12.04 06 06
12.10 v 5 s 12.60

Fairly good plate

Plate I 8316 taken March 29, 1893
11.78 r 4 v 12.18 12.30 v = 12.24 06 06
12.30 v 3 s 12.60

Plate I 8317 taken March 29, 1893
11.78 r 2 v 11.98 v = 11.98?

s n.s.

Plate C 5493 taken April 8, 1893
12.60 s 1 v 12.70 12.84 v = 12.77 07 07
12.84 v 1 t 12.94

Plate C 5498 taken April 11, 1893
12.94 t 2 v 13.14 12.93 v = 13.04 10 11
12.93 v 5 u 13.43

Reduced March 1915
G.F.M.

March 10, 1896

R Ms. Maj.

Plate C 5499 taken April 11, 1893
v n.s. v < 11.9

11.78 r = .1

Plate C 5528 taken May 5, 1893
13.43 u 1 v 13.53 v = 13.53?

u' n.s.

Plate C 5626 taken June 26, 1893
v n.s. v < 13.0

12.94 t = .1

Plate C 5653 taken July 2, 1893
v n.s. v < 11.2

11.15 p = .1

Plate C 5754 taken July 23, 1893
v n.s. v < 13.0

12.94 t = .1

Plate C 5888 taken Aug. 2, 1893
v n.s. v < 12.70

12.60 s = .1

l on extreme edge of plate.
l' + m' not on plate

Plate C 6224 taken Nov. 16, 1893
v o l 9.25 v = 9.25?

Plate C 6374 taken Dec. 20, 1893
10.38 o 1 v 10.48 10.45 v = 10.46 02 01
10.45 v 7 p 11.15

Plate C 6527 taken Jan. 30, 1894
11.78 r 4 v 12.18 12.00 v = 12.09 09 07
12.00 v 6 s 12.60

Reduced March 1915
G.F.M.

March 10, 1896

Plate C 6577 taken Feb. 8, 1894
11.78 r 7 v 12.48 12.30 v = 12.39 09 09
12.30 v 3 s 12.60

Plate I 10855 taken March 20, 1894
13.43 u 2 v 13.63 v = 13.63?

u' n.s.

Plate C 6709 taken April 25, 1894
v n.s. v < 12.70

12.60 s = .1 12.70

Plate C 6724 taken April 26, 1894
v n.s. v < 12.7

12.60 s = .1 12.70

Plate C 6725 taken April 27, 1894
v n.s. v < 12.7

12.60 s = .1 12.70

Plate C 6763 taken May 8, 1894
13.43 u 1 v 13.53 13.82 v = 13.68 15 14
13.82 v 2 u' 14.02

Plate C 6854 taken June 21, 1894
v n.s. v < 12.70

12.60 s = .1 12.70

Plate C 7054 taken Sept. 27, 1894
9.44 l' 1 v 9.54 9.51 v = 9.52 02 01
9.51 v 8 m' 10.31

Plate C 7171 taken Oct. 31, 1894
not on plate

Images very faint

Plate C 7186 taken Nov. 3, 1894
10.38 o 4 v 10.78 11.05 v = 10.92 14 13
11.05 v 1 p 11.15

Reduced March 1915
G.F.M.

March 10, 1896

R Urs. Maj cont.

But first mis-took p for r. Images very faint

Plate C 7198 taken Nov. 6, 1894
10.38 o 1 v ~~v n.s.~~ 10.48 10.65 v = 10.56 08 09
10.65 v 5 p ~~r = .1~~ 11.15

Plate C 7199 taken Nov. 6, 1894
10.38 o 2 v 10.58 10.75 v = 10.66 08 09
10.75 v 4 p 11.15

Plate C 7342 taken Dec. 17, 1894
11.78 r 6 v 12.38 12.20 v = 12.29 0$\overset{9}{8}$ 09
12.20 v 4 s 12.60

Plate C 7456 taken Jan. 23, 1895
14.02 u' 2 v 14.22 v = 14.22?

x n.s

Images scarcely seen

Plate C 7550 taken Feb. 20, 1895
14.02 v 0 u' 14.02 v = 14.02

Plate C 7593 taken March 3, 1895
v n.s. v < 13.0
12.94 t = .1

Assumed to be C7638

Images scarcely seen

Plate C 763$\overset{8}{4}$ taken March 25, 1895
11.78 r 4 v 12.18 13.03 v = 12.60 42 43
13.03 v 4 u 13.43

Plate C 7659 taken April 3, 1895
11.41 v 0 q 11.41 , v = 11.41

Plate C 7704 taken April 17, 1895
10.31 v 0 m' 10.31 10.38 10.38 v = 10.36 05 02 02
10.38 v 0 n 10.38
10.38 v 0 o 10.38

I can see no difference ¼ mag. in these stars on this plate

Reduced March 1915
G.F.M.

March 10, 1896

Plate C 7705 taken April 17, 1895
9.44 l' 8 v 10.24 10.18 v = 10.21 03 03
10.18 v 2 n 10.38

Plate C 7761 taken May 1, 1895
8.32 h 7 v 9.02 8.94 v = 8.98 04 04
8.94 v 5 l' 9.44

Plate C 7782 taken May 2, 1895
9.44 v 0 l' 9.44 v = 9.44

Plate C 7783 taken May 2, 1895
8.32 h 9 v 9.22 9.14 v = 9.18 04 04
9.14 v 3 l' 9.44

Plate C 7818 taken May 6, 1895
8.32 h 3 v 8.62 8.64 v = 8.63 01 01
8.64 v 8 l' 9.44

Plate C 7825 taken May 7, 1895
8.32 h 4 v 8.72 8.64 v = 8.68 04 04
8.64 v 8 l' 9.44

Plate C 7941 taken June 18, 1895
v greatly brighter than l' - No other available comparison stars - v in corner of plate

Plate C 7991 taken July 18, 1895
8.32 h 9 v 9.22 9.14 v = 9.18 04 04
9.14 v 3 l' 9.44

Plate C 8090 taken Aug. 2, 1895
9.44 l' 2 v 9.64 9.81 v = 9.72 08 09
9.81 v 5 m' 10.31

Reduced March 1915
G.F.M.

March 10, 1896

R Urs. Maj.

Plate C 8189 taken Aug. 30, 1895
10.38 o 3 v 10.68 10.75 v = 10.72 04 03
10.75 v 4 p 11.15

Plate C 8234 taken Sept. 4, 1895
10.38 o 3 v 10.68 10.75 v = 10.72 04 03
10.75 v 4 p 11.15

Plate C 8287 taken Sept. 15, 1895
11.15 p 2 v 11.35 11.21 v = 11.28 07 07
11.21 v 2 q 11.41

Plate C 8322 taken Oct. 1, 1895
11.78 v 0 r 11.78 v = 11.78

Images extremely faint

Plate C 8355 taken Oct. 8, 1895
11.78 r 3 v 12.08 12.20 v = 12.14
12.20 v 4 s 12.60

Plate C 8425 taken Oct. 25, 1895
v n.s. v < 11.2
11.15 p = .1

Plate C 8426 taken Oct. 25, 1895
12.60 s 2 v 12.80 12.84 v = 12.82 02 02
12.84 v 1 t 12.94

Plate C 8474 taken Nov. 11, 1895
13.43 v 0 u 13.43 v = 13.43

Plate C 8485 taken Nov. 15, 1895
v n.s. v < 9.5
9.44 l′ = .1

Reduced March 1915
G.F.M.

March 10, 1896

Plate C 8615 taken Dec. 17, 1895
13.43 v 0 u 13.43 v = 13.43

Accuracy doubtful - Images faint

Plate C 8671 taken Dec. 22, 1895
13.43 u 3 v 13.73 13.92 v = 13.82 09 10
13.92 v 1 u′ 14.02

Plate C 8771 taken Jan. 18, 1896
11.78 r 3 v 12.08 12.20 v = 12.14
12.20 v 4 s 12.60

Plate C 8809 taken Jan. 30, 1896
11.15 p 4 v 11.55 11.31 v = 11.43 12 12
11.31 v 1 q 11.41

Image of l′ very poor

Plate C 8874 taken Feb. 20, 1896
9.44 v 0 l′ ? 9.44 v = 9.44?

Plate I 14399 taken Jan. 30, 1896
11.41 v 0 q 11.41 v = 11.41

April 6, 1896

Plate I 14760 taken March 28, 1896
7.02 a 6 v 7.62 8.22 v = 7.92 30 30
8.22 v 1 h 8.32

Plate C 8990 taken March 27, 1896
7.02 a 4 v 7.42 8.12 v = 7.77 35 35
8.12 v 2 h 8.32

Continued III P. 60

March 11, 1896

Measures of the brightness of the comparison stars to S Cygni.

Plate I 141 taken Nov. 16, 1889

a	5.0	5.3	
b	5.9	6.2	Image elongated
c	5.7	6.1	
d	5.9	6.3	
e	5.7	6.0	For C plates see III p 122
f	6.8	7.0	
g	5.9	6.2	
h		8.0	
k		7.5	
l		7.4	
m		7.7	
n		8.3	
o		7.9	
p		8.4	
q		8.9	
r		9.0	
s		9.1	
t		9.8	
u		10.3?	
φ Fld Star		8.6	
v		n.s.	
β	Too bright to measure		

March 11, 1896

Plate I 9148 taken Aug. 9, 1893

a	6.0	6.4	
b		7.7	Image much elongated
c	6.9	7.2	
d		7.8	Image much elongated
e		7.4	
f		8.2	
g		7.7	
h		9.4	
k		8.8	
l		8.8	
m		9.1	
n		10.0	
o		9.3	
p		10.1	
q		n.s.	
r		n.s.	
s		n.s.	
t		n.s.	
u		n.s.	
v		n.s.	
φ fld star		10.4?	

Field near edge of plate

March 11, 1896

Measures S. Cygni continued

Plate I 11835 taken Nov. 11, 1894

a	6.1	6.4	
b	7.0	7.0^3	
c	6.8	7.1	
d	7.0	7.3	
e	7.0	7.3	
f		8.2	
g		7.5	
h		9.3?	Image very poor
k		8.7?	" " "
l		8.8?	" " "
m		9.0?	" " "
n		9.9?	" " "
o		9.3?	" "
p		9.8?	" "
q		10.1?	
r		10.0?	
s		10.4?	
t		n.s.	
u		n.s.	
φ ft star		9.9	
v		10.0	

Field near edge of plate. Images poor

March 11, 1896

Plate I 13553 taken Sept. 30, 1895

a	5.8	6.1	
b	6.5	6.8	Image elongated
c	6.4	6.7	
d	6.6	6.9	
e	6.5	6.8	
f		7.8	
g	6.8	7.1	
h		9.0	
k		8.3	
l		8.2	
m		8.5	
n		9.5	
o		8.8	
p		9.3	
q		10.0	
r		9.4^8	Wrong star first obs.
s		10.0	
t		10.5?	
u		n.s.	
v		9.4	
φ ft star		9.5	

March 11, 1896

Estimates of the brightness of S Cygni
a c e b d g f k l m o h p n [φ-star] q r s t u
Companion Stars of Mr. Wendell in order of phot. brightness

Plate I 141 taken Nov. 16, 1889
r n.s.
u = .1

Extreme edge of plate

Plate I 1369 taken June 30, 1890
r n.s.
m = .2

Plate I 1767 taken Sept. 1, 1890
r n.s.
n = .1

Plate I 1922 taken Oct. 1, 1890
r n.s.
n = .1

Plate I 1923 taken Oct. 1, 1896
r n.s.
f = .1

Plate I 2064 taken Oct. 25, 1890
r n.s.
p = .1

Plate I 2454 taken Dec. 9, 1890
r n.s.
l = .2

Plate I 2778 taken Jan. 12, 1891
p 2 r
r 1 φ

March 11, 1896

Plate C 3611 taken April 6, 1891

Plate C 3625 taken April 9, 1891
m 3 r
r 2 o

Plate C 3633 taken April 13, 1891
m 4 r
r 1 o

Plate C 3649 taken April 24, 1891
o 4 r
r 2 p

Plate I 4198 taken Sept. 10, 1891

Plate C 3973 taken Sept. 19, 1891
r o g ?

Images extremely faint

Plate I 4451 taken Oct. 5, 1891
r n.s.
m = .1

Plate C 4155 taken Nov. 6, 1891
r n.s.
n = .1

Plate C 4245 taken Dec. 2, 1891
r n.s.
l = .1

March 11, 1896

S Cygni cont.

Plate C 4246 taken Dec. 2, 1891
v n.s.
l = .1

Plate C 4263 taken Dec. 8, 1891
v n.s.
n = .1

Plate C 4251 taken Dec. 3, 1891
v n.s.
o = .1

Plate C 4264 taken Dec. 8, 1891
v n.s.
o = .1

Plate C 4290 taken Dec. 13, 1891
v n.s.
p = .1

Plate C 4301 taken Dec. 17, 1891
Images very faint
v o p?

Plate I 5275 taken Dec. 28, 1891
extreme edge
v o p

Plate I 5381 taken Jan. 9, 1892
extreme edge
p 3 v
Images faint
v 2 f

Plate I 6566 taken July 11, 1892
extreme edge
v n.s.
h = .1

March 11, 1896

extreme edge
Plate I 6660 taken July 25, 1892
v n.s.
k = .1

Plate I 6717 taken Aug. 6, 1892
v n.s.
h = .2

Plate ~~C~~ I 6737 taken Aug. 16, 1892

Images scarcely seen
Plate I 6739 taken Aug. 16, 1892
v o m?

extreme edge
Plate I 6779 taken Aug. 23, 1892
v n.s.
f = .4

extreme edge
Plate I 6809 taken Sept. 1, 1892
v n.s.
h = .1

extreme edge
Plate I 7093 taken Sept. 18, 1892
v n.s.
k = .2

extreme edge
Plate I 7187 taken Sept. 27, 1892
v n.s.
k = .2

extreme edge
Plate I 7204 taken Sept. 29, 1892
v n.s.
p = .1

March 11, 1896

S Cygni cont.

Plate C 5197 taken Dec. 3, 1892
f 4 r
r 4 l

Plate I 5198 taken Dec. 3, 1892
f 4 r
r 3 l

Plate badly fogged

Plate C 5640 taken June 29, 189~~2~~3
r n. s.
o = .3

Plate C 5644 taken June 30, 1893
r n. s.
p = .1

Plate C 5645 taken June 30, 1893
r n. s.
l = .1

Plate C 5697 ~~taken~~ July 11, 1893
r n. s.
r = .1

extreme edge

Plate I 9035 taken Aug. 2, 1893
r n. s.
k = .1

Plate I 9063 taken Aug. 3, 1893
r n. s.
p = .1

Plate I 9148 taken Aug 9, 1893
r n. s.
p = .1

March 11, 1896

Plate C 5862 taken Aug: 11, 1893
r n. s.
s = .1

Plate I 9326 taken Aug. 29, 1893
r 1 r
r 2 s

Plate C 5966 taken Sept. 9, 1893
r n. s.
q = .1

Plate C 6097 taken Oct. 16, 1893
l 2 r
r 3 m

extreme edge

Plate I 9720 taken Oct. 21, 1893
r 0 l

extreme edge

Plate I 9747 taken Oct. 24, 1893
r 0 l

Plate C 6283 taken Dec. 4, 1893
~~o 3 r~~
r 0 l

Plate C 6284 taken Dec. 4, 1893
r 0 l

Plate C 6363 ~~taken~~ Dec. 20, 1893
p 3 r
r 4 q

March 11, 1896

S Cygni cont

Plate C 6465 taken Jan. 12, 1894
v n. s.
ϕ = .1

Plate C 6718 taken April 25, 1894
v n. s.
ϕ = .1

Plate C 6893 taken ~~Nov. 16~~ July 9, 1894
~~v n. s.~~ wrong plate
~~p = .1~~

Plate C 6944 taken Aug. 3, 1894

Plate ~~C~~ I 11412 taken Aug. 26, 1894
v n. s.
p = .1

Plate C 7063 taken Sept. 29, 1894
l 1 v.

v 4 m

Plate C 7108 taken Oct. 14, 1894
m ϕ^2 v

v 20

Plate I 11626 taken Oct. 14, 1894
v 0 m

Plate I 11835 taken Nov. 11, 1894
v 0 ϕ?
v clear, a mere point. ϕ blurred

March 11, 1896

Plate C 7231 taken Nov. 16, 1894
v n. s.
p = .1

Plate C 7330 taken Dec. 17, 1894
v n. s.
l = .3

Plate C 7331 taken Dec. 17, 1894
v n. s.
l = .3

Plate C 7373 taken Dec. 22, 1894
v n. s.
o = .1

Plate C 7406 taken Jan. 1, 1895
v n. s.
o = .1

Plate C 7567 taken Feb. 22, 1895
v n. s.
o = .1

Plate C 7605 taken March 5, 1895
v n. s.
ϕ = .1

Plate C 7692 taken April 16, 1895
v n. s.
l = .~~3~~ .1

l wrongly identified at first

Plate C 7766 taken May 1, 1895
v n. s
l = .1

March 11, 1896

S Cygni cont.

Plate C7832 taken May 9, 1895
v n. s.
o = .2

Plate C7926 taken June 16, 1895
v n. s.
o = .2

Plate C7927 taken June 16, 1895
l 4 v
v 2 p

Plate C7970 taken July 11, 1895
l 2 v
v 1 m

Plate C8028 taken July 26, 1895
f 6 v
v 2 k

Plate C8123 taken Aug. 14, 1895
v 0 l

Plate C8152 taken Aug. 19, 1895
l 1 v
v 3 m

Plate C8195 taken Aug 30, 1895
m 2 v
v 3 o

Images extremely faint

Plate C8238 taken Sept. 4, 1895
m 1 v
v 3 o

March 11, 1896

Plate C8276 taken Sept. 13, 1895
v 0 o

Plate I 13553 taken Sept. 30, 1895
p 1 v
v 5 q

Plate C8358 taken Oct. 10, 1895
p 5 v
v 1 q

Plate C8435 taken Oct. 28, 1895
n 2 v
v 1 s

Images faint

Plate C8488 taken Nov. 15, 1895
v n. s.
p = .1

Plate C8535 taken Nov. 29, 1895
v n. s.
o = .1

Plate C8564 taken Dec. 6, 1895
v n. s.
p = .1

Plate C8565 Dec. 6, 1895
v n. s.
s = .1

Plate C8635 taken Dec. 19, '95
v n. s.
n = .3

March 11, 1896

S Cygni cont

Plate C8636 Dec. 19, 1895
v n. s,
o = .2

Plate C8641 taken Dec. 19, 1895
v n. s.
l = .1

Plate C8667 taken Dec. 22, 1895
v n. s.
o = .2

Plate C 8871 taken Feb. 20, 1896
v n. s,
n = .1

Mar. 28, 1896 Plate C 9000 ~~S Cygni~~ taken Mar. 28, 1896
v n. s.
p = .1

May 6, 1896 Plate C 9074 taken April 15, 1896
v n. s.
n = .1

Plate C 9102 taken April 22, 1896
v o p?
Stars very faint. Identification uncertain

Continued IV page 92

March 16, 1896

Measures of photographic brightness of O. C. Wendell's comparison stars to T Ursae Majoris.

Plate I 3492 taken April 26, 1891

Very poor image

These measures superseded

a	5.7?	6.0?
b	6.1	6.4
c	6.6	6.9
d	6.5	6.8
e	5.5	5.8
f	6.8	7.0
g	6.9	7.2
h		8.0
k		8.4
l		8.6
m		8.8
n		9.0
o		9.1
p		9.2
q		9.4
r		9.5
s		n.s. – Defect in plate
t		10.2?
u		n.s.
w		n.s.
x		n.s.
y		n.s.
v		8.6

Should names of l and m be reversed? Mr. W. has been asked

March 16, 1896

T Urs. Maj. cont.

Plate I 5529 taken Feb. 4, 1892

a	5.7?	6.0?	Image very poor + elongated
b	5.7	6.0	
c	6.2	6.5	These measures superseded
d	6.2	6.5	
e	5.3	5.6	
f	6.7	7.0	
g	6.8	7.1	
h		8.1	
k		8.5	
l		8.6	
m		8.8	
n		9.0	
o		9.2	
p		9.3	
q		9.4	
r		9.4	
s		9.8	
t		10.2	What seems to be t may be defect in plate
u		10.1	
w		n.s.	
x		n.s.	
y		n.s.	
V		9.1	

Focus poor - images poor

March 16, 1896

Plate I 5723 taken Feb. 17, 1892

a	4.7	5.0	Image very poor
b	5.3	5.6	
c	5.7	6.0	
d	5.8	6.1	These measures superseded
e	5.2	5.5	
f	6.0	6.3	
g	6.0	6.3	Very poor image
h	7.0	7.3	
k		7.8	
l		7.8	
m		8.2	
n		8.4	
o		8.8	
p		9.0	
q		9.1	
r		9.0	
s		9.4	
t		9.7	
u		9.7	
w		9.9	
x		10.2?	
y		10.2?	
V		8.7	

March 16, 1896

T Urs. Maj. cont.

Plate I 5925 taken March 21, 1892

a	4.7	5.0	
b	5.6	5.9	
c	5.8	6.1	
d	6.0	6.3	These measures superseded
e	4.9	5.2	
f	6.1	6.4	
g	6.0	6.3	
h	6.9	7.2	
k		7.7	
l		7.8	
m		8.1	Wrong star first obs.
n		8.3	
o		8.7	
p		8.8	
q		9.0	
r		9.1	
s		9.4	
t		10.0	
u		9.9	
w		10.2²	
y		n.s.	
v		9.~~2~~³	

Reduced April 1915
S.F.M.

March 16, 1896

Estimates of the brightness of T Ursae Majoris
e b c d f g h k l m n o p q r s ε ŧ u t w y
Companion stars arranged in order of phot. brightness

edge of plate – Images very poor

Plate I 712 taken Feb. 21, 1890
V n.s. v < 13.0
12.89 ε = .1

extreme edge of plate

Plate I 995 taken April 11, 1890
11.02 l 2 v 11.22 11.14 v = 11.18 04 04
11.14 v 2 m 11.34

Images poor

Plate I 1084 taken April 28, 1890
9.09 g 6 v 9.69 9.82 v = 9.76 07 06
9.82 v 8 h 10.12

Plate I 1099 taken April 29, 1890
9.09 ~~h~~ 5 v 9.59 9.72 v = 9.66 07 06
9.72 v 4 h 10.12

extreme edge of plate

Plate I 1133 taken May 2, 1890
9.09 g 3 v 9.39 v = 9.39?
h ~~n.s.~~, not on plate

There is no star ε. Star e evidently not intended. Report [illegible] H.S.L. April 20, 1915
See MT. 8: 149

Plate I 1149 taken May 12, 1890
8.38 c 4 v 8.78 ?
v 1 ε 7.96

extreme corner of plate

Plate I 1165 taken May 16, 1890
9.09 g 3 v 9.39 v = 9.39 ?
h not on plate

Plate I 1329 taken June 25, 1890
v 0 d 8.60 v = 8.60

Reduced April 1915
S.F.M.

March 16, 1896

T Urs. Maj. ant

Plate I 1427 taken July 11, 1890
9.09 g 1 r 9.19 9.22 v = 9.20 01 02
9.22 r g h 10.12

Plate I 1498 taken July 21, 1890
9.36 r 0 g′ 9.36 v = 9.36

Images extremely faint

Plate I 1643 taken Aug. 15, 1890
11.34 m 2 r 11.54 11.54 v = 11.54 00 00
11.54 r 3 n 11.84

Plate I 1840 taken Sept. 22, 1890
r n.s. v < 12.7
12.56 p = .1

Plate C 3380 taken Feb. 1, 1891
9.09 r 0 g 9.09 v = 9.09

Plate C 3381 taken Feb. 1, 1891
9.09 r 0 g 9.09 v = 9.09

Plate C 3431 taken Feb. 10, 1891
9.09 r 0 g 9.09 v = 9.09

Plate C 3432 taken Feb. 10, 1891
9.09 r 0 g 9.09 v = 9.09

Plate C 3456 taken Feb. 11, 1891
8.99 8.56 8.78 21 22
8.99 r 1 g ~~9.09~~ ~~9.36~~ v = ~~9.22~~ ~~13~~ ~~14~~
8.56 r 8 g′ 9.36

Plate C 3457 taken Feb. 11, 1891
9.09 r 0 g 9.09 v = 9.09

Reduced April 1915
S.F.M.

March 16, 1896

Plate C 3485 taken Feb. 18, 1891
9.09 g 2 r 9.29 8.66 v = 8.98 31 32
8.66 r 7 g′ 9.36

Slip made at first in reading

Plate C 3501 taken Feb. 22, 1891
9.09 g 2^3 r 9.39 8.86 v = 9.12 27 26
8.86 r 5 g′ 9.36

Plate C 3502 taken Feb. 22, 1891
9.09 r 0 g 9.09 v = 9.09

Plate C 3512 taken Feb. 27, 1891
9.09 g 2 r 9.29 8.46 v = 8.88 41 42
8.46 r 9 g′ 9.36

Plate C 3522 taken March 1, 1891
Not on plate –

Plate C 3538 taken March 5, 1891
9.09 g 3 r 9.39 8.76 v = 9.08 31 32
8.76 r 6 g′ 9.36

Plate C 3566 taken March 16, 1891
9.09 g 4 r 9.49 8.96 v = 9.22 27 26
8.96 r 4 g′ 9.36

Plate I 3331 taken March 25, 1891
9.09 g 6 r 9.69 9.06 v = 9.38 31 32
9.06 r 3 g′ 9.36

Plate I 3332 taken March 25, 1891
r n.s. v < 9.3
9.09 g -.2

Reduced April 17. 1915
G.F.M.

March 16, 1896

Thos. Maj.

Edge of plate

Plate I 3339 taken March 2~~9~~5, 189~~6~~1
9.09 g 7 r 9.79 9.26 v = 9.52 27 26
9.26 r 1 g′ 9.36

Plate C 3592 taken March 29, 1891
9.36 r 0 g′ 9.36 v = 9.36

Plate C 3601 taken March 30, 1891
9.36 g′ 1 r 9.46 9.82 v = 9.64 18 18
9.82 r 3 h 10.12

Images very poor

Plate I 3437 taken April 21, 1891
11.02 l 3 r 11.32 11.24 v = 11.28 04 04
11.24 r 1 m 11.34

Very poor plate

Plate I 3446 taken Apr. 21, 1891
r n.s. v < 11.1
11.02 l = .1

Plate I 3492 taken April 26, 1891
11.02 l 1 r 11.12 11.24 v = 11.18 06 06
11.24 r 1 m 11.34

Plate C 367~~2~~9 taken May 1, 1891
11.34 m 2 r 11.54 11.64 v = 11.59
11.64 r 2 n 11.84

Plate I 3553 taken May 4, 1891
r n.s. v < 11.9
11.84 n = .1

Plate I 3673 taken June 5, 1891
r n.s. v < 11.2
11.02 l = .2

Reduced April 19. 1915
G.F.M.

March 16, 1896

Images very faint

Plate I 4441 taken Oct. 5, 1891
9.09 r 0 g 9.09 v = 9.09

Plate I 4900 taken Nov. 30, 1891
9.09 g 2 r 9.29 8.66 v = 8.98 31 32
8.66 r 7 g′ 9.36

Plate I 5529 taken Feb. 4, 1892
11.84 n 2 r 12.04 12.27 v = 12.16 12 11
12.27 r 1 o 12.37

Plate I 5723 taken Feb. 17, 1892
12.37 r 0 o 12.37 v = 12.37

Very poor images

Plate I 5835 taken March 7, 1892
12.89 r 2 r 13.09 13.09 v = 13.09 00 00
13.09 r 1 S 13.19

Plate I 5925 taken March 21, 1892
12.89 r 3 r 13.19 13.09 v = 13.14 05 05
13.09 r 1 S 13.19

Images very poor

Plate C 4759 taken May 25, 1892
9.36 r 0 g′ 9.36 v = 9.36

Plate C 4760 taken May 28, 1892
9.36 g′ 3 r 9.66 10.02 v = 9.84 18 18
10.02 r 1 h 10.12

Images very poor - near edge

Plate I 6410 taken June 6, 1892
9.09 r 0 g 9.09 v = 9.09

Plate I 6426 taken June 7, 1892
9.09 g 3 r 9.39 8.76 v = 9.08 31 32
8.76 r 6 g′ 9.36

Reduced April 19, 1915
G.7.M.

March 16, 1896

T Urs. Maj.

Plate C 5309 taken Jan. 16, 1893
13.19 s 4 r 13.59 13.67 v = 13.63 04 04
13.67 r 3 t 13.97

Plate I 5478 taken March 29, 1893
~~11.62~~ 7.9 8.6 l 6 r ~~11.62~~ 8.5 8.6 8.79 v = 8.66 8 ~~13~~ 12 ~~13~~ 11
8.79 r 3 g 9.09

Plate I 8428 taken April 19, 1893
Images poor 9.09 v 0 g 9.09 v = 9.09

Plate C 5578 taken April 24, 1893
9.09 g 1 r 9.19 8.66 v = 8.92 27 26
8.66 r 7 g′ 9.36

Edge of plate Plate I 8469 taken April 25, 1893
9.09 g 2 r 9.29 8.66 v = 8.98 31 32
8.66 r 7 g′ 9.36

Near edge Plate I 8470 taken April 25, 1893.
9.09 g 2 r 9.29 8.66 v = 8.98 31 32
8.66 r 7 g′ 9.36

Plate C 5538 taken May 9, 1893
9.09 g 6 r 9.69 9.06 v = 9.38 31 32
9.06 r 3 g′ 9.36

Images poor Plate C 5568 taken May 20, 1893
10.12 v 0 h 10.12 v = 10.12

Assumed intended for C 5569 as I 5569 is not region, and C 5569 is in ledger.

Plate * ~~I~~ C 5564 taken May 20, 1893
9.36 g′ 3 r 9.66 10.02 v = 9.84 18 18
10.02 r 1 h 10.12

Reduced April 19, 1915
G.7.M.

March 16, 1896

Plate I 8577 taken May 25, 1893
10.60 k 2 r 10.80 10.92 v = 10.86 06 06
10.92 r 1 l 11.02

Images elongated and faint Plate ~~I~~ C * 5593, taken June 5, 1893
11.02 l 2 r 11.22 11.24 v = 11.23 01 01
11.24 r 1 m 11.34

Poor plate Plate C 5594 taken June 5, 1893
11.02 l 2 r 11.22 11.24 v = 11.23 01 01
11.24 r 1 m 11.34

Plate C 5627 taken June 26, 1893
12.37 r 0 0 12.37 v - 12.37

Plate C 5654 taken July 2, 1893
12.56 r 0 p? 12.56 v = 12.56?

The images are very faint - scarcely seen

Plate C 5809 taken Aug. 2, 1893
r n. s. v < 13.3
13.19 s = .1

Plate I 9183 taken Aug. 13, 1893
r n. s. v < 13.3
13.19 s = .1

Plate C 5960 taken Sept. 9, 1893
r n. s. v < 12.9
12.80 g = .1

Plate C 6225 taken Nov. 16, 1893
9.09 g 5 r 9.59 8.96 v = 9.28 31 32
8.96 r 4 g′ 9.36

* Assumed intended for C 5593, as I 5593 is not this region, and C 5593 agrees with ledger.

Reduced April 19, 1915
E.F.M.

March 16, 1896

T Urs. Maj.

Plate C 6349 taken Dec. 17, 1893
7.96 l 5 r 8.46 8.99 v = 8.72 26 27
8.99 r 1 g 9.09

Plate C 6350 taken Dec. 17, 1893
7.96 l 5 r 8.46 8.99 v = 8.72 26 27
8.99 r 1 g 9.09

Plate C 6375 taken Dec. 20, 1893
7.96 l 6 r 8.56 8.99 v = 8.78 22 21
8.99 r 1 g 9.09

Plate C 6517 taken Jan. 25, 1894
9.09 g 5 r 9.59 8.96 v = ~~8.78~~ 9.28 ~~19~~ 31 ~~18~~ 32
8.96 r 4 g 9.36

Plate C 6578 taken Feb. 8, 1894
10.12 h 1 r 10.22 10.40 v = 10.31 09 09
10.40 r 2 k 10.60

Plate C 6672 taken March 30, 1894
12.80 r 0 g 12.80 v = 12.80

Plate C 6712 taken April 25, 1894
r n. s. v < 13.0
12.89 h = .1

Plate C 6760 taken May 7, 1894
r n. s v < 12.8
12.56 p = .2

Plate C 6810 taken June 1, 1894
12.89 r 0 n? 12.89 v = 12.89 ?

Images very faint

Plate C 6811 taken June 1, 1894
12.89 p 2 r 13.09 12.99 v = 13.04 05 05
12.99 r 2 S 13.19

Reduced April 19, 1915
E.F.M.

March 16, 1896

Plate C 6761 taken May 7, 189
r n. s. v < 12.8
12.56 p = .2

Plate C 6924 taken July 30, 1894
7.96 l 2 r 8.16 8.59 v = 8.38 ~~16~~ 22 21
8.59 r 5 g 9.09

Plate C 7055 taken Sept. 27, 1894
7.96 l 7 r 8.66 8.99 v = 8.82 16 17
8.99 r 1 g 9.09

Continued Vol III p. 58

Reduced April 19, 1915
S.F.M.

March 17, 1896
T Ursae Majoris cont,

Plate C 7172 taken Oct. 31, 1894
10.60 k 3 v 10.90 10.82 v = 10.86 04 04
10.82 v 2 l 11.02

Plate C 7187 taken Nov. 3, 1894
11.02 ~~k~~ v 0 l 11.02 v = 11.02

Plate C 7298 taken Dec. 4, 1894
v n.s. v < 12.5

12.37 o = .1

Images scarcely seen

Plate C 7299 taken Dec. 4, 1894
12.37 o 2 v 12.57 12.46 v = 12.52 05 06
12.46 v 1 p 12.56

Plate C 7343 taken Dec. 17, 1894
13.19 s ~~k~~2 v 13.39 13.40 v = 13.40 01 00
13.40 v 4 u 13.80

Plate C 7476 taken Jan. 29, 1895
v n.s. v < 13.9

13.80 u = .1

Plate C 7557 taken Feb. 20, 1895
v n.s. v < 12.6

12.37 o = .2

Plate C 7589 taken March 3, 1895
v n.s. v < 11.9

11.84 n ~~f~~ = .1

Plate C 7639 taken March 25, 1895
10.12 v 0 h 10.12 v = 10.12

Reduced April 19, 1915
S.F.M.

March 17, 1896

Plate C 7660 taken April 3, 1895
9.09 g ~~k~~ 5 t 9.59 9.16 v = 9.38 21 22
9.16 v 2 g' 9.36

Plate C 7708 taken April 17, 1895
9.09 g 2 r 9.29 8.76 v = 9.02 27 26
8.76 r 6 g' 9.36

Plate C 7784 taken May 2, 1895
9.09 v 0 g 9.09 v = 9.09

Plate C 7811 taken May 6, 1895
9.09 v 0 g 9.09 v = 9.09

Plate C 7826 taken May 7, 1895
9.09 v 0 g 9.09 v = 9.09

Plate C 7849 taken May 13, 1895
v 9 g' 9.36 v = 8.46 ?
g not on plate

Plate C 7850 taken May 13, 1895
9.13 v 0 f? 9.13 v = 9.13?
Image of v on edge of plate - distorted

Images scarcely visible

Plate C 7942 taken June 18, 1895
10.12 h 2 v 10.32 10.40 v = 10.36 04 04
10.40 v 2 k 10.60

Plate C 7992 taken July 18, 1895
v n.s. v < 11.5

11.34 m = .2

Reduced April 19, 1915
E.F.M.

March 17, 1896

Thos. Maji

Plate C 8116 taken Aug. 14, 1895
r n.s. v < 12.7
12.56 p = .1

Images scarcely seen

Plate C 8190 taken Aug. 30, 1895
13.19 s 3 r 13.49 13.70 v = 13.60 11 10
13.70 r 1 u 13.80

Plate C 8235 taken Sept. 4, 1895
r n.s. v < 13.0 ?
12.89 r = .1? very faint

Plate I 13437 taken Sept. 5, 1895
13.19 s 1 r 13.29 v = 13.29 ?
u and t n.s.

Plate I 13477 taken Sept. 10, 1895
r n.s. v < 12.5
12.37 o = .1

Plate C 8267 taken Sept. 13, 1895
r n.s. v < 12.6
12.37 o = .2

Plate C 8288 taken Sept. 15, 1895
r n.s. v < 13.4
13.19 s = .2

Plate C 8323 taken Oct. 1, 1895
13.80 r o u 13.80 v = 13.80

Plate C 8356 taken Oct. 8, 1895
r n.s. v < 12.6
12.37 o = .2

Reduced April 19, 1915
E.F.M.

March 17, 1896

Plate C 8429 taken Oct. 28, 189~~6~~5
12.37 r o o? 12.37 v = 12.37 ?
Both stars are mere shadows on the plate

Plate C 8475 taken Nov. 11, 1895
11.34 m 1 r 11.44 11.64 v = 11.54 10 10
11.64 r 2 n 11.84

Poor plate
Images faint

Plate C 8523 taken Nov. 27, 1895
10.12 r o h 10.12 v = 10.12

Plate C 8524 taken Nov. 27, 1895
9.36 g 2 r 9.56 10.02 v = 9.79 23 23
10.02 r 1 h 10.12

Plate C 8536 taken Nov. 29, 1895
9.36 r o g 9.36 v = 9.36

Plate C 8616 taken Dec. 17, 1895
8.38 l 4 r 8.78 8.59 v = 8.68 10 09
8.59 r 5 g 9.09

Plate C 8672 taken Dec. 22, 189~~4~~5
8.38 l 4 r 8.78 8.59 v = 8.68 10 09
8.59 r 5 g 9.09

Plate C 8807 taken Jan. 30, 189~~5~~6
9.09 r o g 9.09 v = 9.09

Plate C 8875 taken Feb. 20, 189~~5~~6
9.09 g 4 r 9.49 8.96 v = ~~8.72~~ 9.2~~1~~2 ~~23~~ 27 ~~24~~ 26
8.96 r 4 g 9.36

Plate C 8933 taken March 7, 1896
10.12 h 1 r 10.22 10.30 r 3 k 10.60
v = 10.26 .4 .4

Continued III p 58

March 1$\overset{7}{8}$, 1896

Measurement of O. C. Wendell's comparison stars to S Ursae Majoris.

Plate I 3492 taken April 26, 1891 Superseded

a	6.0	6.3
b	6.1	6.4
c	6.7	7.0
d	6.7	7.0
e	5.5	5.8
f	7.0	7.3
g		7.5
h		8.0
k		8.4
l		8.1
m		8.7
n		8.8
o		9.0
p		9.1
q		9.8
r		n.s.
s		n.s.
t		n.s.
u		n.s.
v		9.6

These measures are repeated in Vol III pp88-91. No explanation given. Perhaps previous measurement was forgotten.

March 17, 1896

Meas. Cont.

Plate I 5529 taken Feb. 4, 1892 Superseded

a	5.7	6.0	
b	5.8	6.1	
c	6.2	6.5	
d	6.3	6.6	
e	5.5	5.8	
f	6.7	7.0	
g	7.0	7.~~5~~3	
h		8.0	
k		8.7	
l		8.3	
m		8.8	
n		9.0	
o		9.3	
p		9.3	
q		~~10.2~~ 9.9	Wrong star first measured
r		10.1	
s		n.s.	
t		n.s.	
v		8.0	

March 17, 1896

Mess. Cont.

Plate I 5723 taken Feb. 17, 1892

a	4.9	5.~~7~~3	
b	5.3	5.6	Superseded - See note p 190
c	5.5	5.8	
d	5.7	6.0	
e	5.3	5.6	
f	5.9	6.2	
g	6.1	6.4	
h	6.8	7.1	
k		8.0	
l		7.4	
m		8.2	
n		8.2	
o		8.8	
p		8.9	
q		9.1	
r		9.6	
s		10.0	
t		10.4?	I am doubtful whether I measured t, or a defect in plate
v	6.2	6.5	

March 17, 1896

Plate I 5925 taken March 21, 1892

a	5.2	5.5	
b	5.6	5.9	Superseded - See note p. 190
c	5.8	6.1	
d	5.8	6.1	
e	5.0	5.3	
f	5.9	6.2	
g	6.1	6.4	
h	7.0	7.3	
k		8.0	
l		7.4	
m		8.1	
n		8.3	
o		8.7	
p		8.7	
q		9.1	
r		9.5	
s		10.0	
t		9.9	
v		7.4	

March 17, 1896

Estimates of the brightness of S Ursae Majoris

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

Companion stars arranged in order of phot. brightness

Plate I 712 taken Feb. 21, 1890
Off plate -

Plate I 995 taken April 11, 1890
Not on plate

Plate I 1084 taken April 28, 1890
v o g $\overset{*\,9.34}{8.22}$ v = 9.34

Plate I 1099 taken April 29, 1890
$\overset{9.34}{8.22}$ * g 2 v $\overset{9.54}{8.42}$ $\overset{9.70}{8.46}$ $\overset{v = 9.62}{v = 8.44}$ $\overset{.08}{.02}$ $\overset{.08}{.02}$
$\overset{9.70}{8.46}$ v 5 h $\overset{10.20}{8.96}$

Plate I 1133 taken May 2, 1890
Not on plate

Plate I 1149 taken May 12, 1890
v o h $\overset{10.20}{8.96}$ v = 10.20

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

Plate I 1165 taken May 16, 1890
Not on plate

Plate I 1329 taken June 25, 1890
v o p $\overset{12.44}{10.30}$ v = 12.44

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Plate I 1427 taken July 11, 1890
v n.s, $\overset{v < 12.5}{v < 10.40}$
$\overset{12.44}{10.30}$ p = .1

Plate I 1498 taken July 21, 1890
v o q $\overset{13.32}{10.80}$ v = 13.32

Plate I 1643 taken Aug. 15, 1890
v n.s, $\overset{v < 11.9}{v < 10.16}$
$\overset{11.60}{9.86}$ n = .3

Plate I 1840 taken Sept. 22, 1890
v o n $\overset{11.60}{9.86}$ v = 11.60

Plate C 3382 taken Feb. 1, 1891
$\overset{11.60}{9.86}$ n 4 v $\overset{12.00}{10.26}$ $\overset{12.16}{10.06}$ $\overset{v = 12.08}{v = 10.16}$ $\overset{.08}{.10}$ $\overset{.08}{.10}$
$\overset{12.16}{10.06}$ v 2 o $\overset{12.36}{10.26}$

Plate C 3405 taken Feb. 4, 1891
v n. s. $\overset{v < 11.7}{v < 9.96}$
$\overset{11.60}{9.86}$ n = .1

? Defects in plate make est. doubtful

Plate C 3406 taken Feb. 4, 1891
$\overset{11.60}{9.86}$ n 2 v $\overset{11.80}{10.06}$ $\overset{12.06}{9.96}$ $\overset{v = 11.93}{v = 10.01}$ $\overset{13}{.15}$ $\overset{13}{.05}$
$\overset{12.06}{9.96}$ v 3 o $\overset{12.36}{10.26}$

Plate C 3433 taken Feb. 10, 1891
$\overset{12.44}{10.30}$ p 2 v $\overset{12.64}{10.50}$ $\overset{12.62}{10.10}$ $\overset{v = 12.63}{v = 10.30}$ $\overset{.01}{.20}$ $\overset{.01}{.20}$
$\overset{12.92}{10.10}$ v 7 q $\overset{13.32}{10.80}$

Images elongated - estimate good

Plate C 3434 taken Feb. 10, 1891
$\overset{12.44}{10.30}$ p 3 v $\overset{v = 12.74?}{v = 10.50?}$
q n.s,

Images very faint

March 17, 1896

S Her. Maj. Cont.

Plate C 3503 taken Feb. 22, 1891
13.32
v o q 10.80 v = 13.32

Plate C 3504 taken Feb. 22, 1891
13.32
v o q 10.80 v = 13.32

Plate C 3514 taken Feb. 27, 1891
13.43
v o r 10.87 v = 13.43

Plate C 3523 taken March 1, 1891
13.43 13.73 13.72 v = 13.72 .01 .00
10.87 r 3 v 11.17 11.10 v = 11.14 .03 .04
13.72 13.92
11.10 v 2 s 11.30

Plate C 3539 taken March 5, 1891
v < 13.5
~~r~~ v n.s. v < 10.97
13.43
10.87 r = .1

Plate C 3593 taken March 29, 1891
13.92 14.22 14.35 v = 14.28 .06 .07
11.30 s 3 v 11.60 11.27 v = 11.44 .16 .17
14.35 14.55
11.27 v 2 t 11.47

Plate C 3602 taken March 30, 1891
v < 13.6
v n.s. v < 11.07
13.43
10.87 r = .2

* extreme edge of plate

Plate I 3331 taken March 25, 1891
v < 11.7
v n.s. v < 9.96
11.60
9.86 n = .1

Plate I 3332 taken March 25, 1891
v < 9.4
v n.s. v < 8.32
9.34 *
8.22 g = .1

extreme edge

*See note p. 194

March 17, 1896

Plate I $\overset{3}{1}$339 taken March 25, 1891
v < 13.5
v n.s. v < 11.00
13.32
10.80 q = .2

Images scarcely com

Plate I 3437 taken April 21, 1891
13.43
v o r 10.87 v = 13.43

Plate I 3446 taken April 21, 1891
v < 10.4
v n.s. v < 9.16
10.20
8.96 h = .2

Plate I 3492 taken April 26, 1891
12.44 12.74 13.52 v = 12.93 19 11
10.30 p 3 v 10.60 10.60 v = 10.60 0 0
13.52 13.32
10.60 v 2 q 10.80

March 18, 1896

S Urs. Maj. Cont.

Plate C 3660 taken April 27, 1891
12.44 12.74 13.02 v = 12.88 14 14
10.30 p 3 r 10.60 10.50 r = 10.55 .05 .05
13.02 13.32
10.50 r 3 q 10.80

Plate I 3553 taken May 4, 1891
v < 10.9
r n.s. r < 9.71
10.64
9.41 l = .3

Plate I 3673 taken June 5, 1891
10.64
r 0 l 9.41 v = 10.64

Plate I 4441 taken Oct. 5, 1891
v ≤ 10.4
r n.s. r ≤ 9.16
10.20
8.96 h = .2

Plate I 4900 taken Nov. 30, 1891
13.32 v = 13.52?
10.80 q 2 r r = 11.00? -
r n.s.

Plate I 5529 taken Feb. 4, 1892
9.34 * 9.94 10.10 v = 10.02 08 08
8.22 g 6 r 8.82 8.86 r = 8.84 .02 .02
10.10 10.20
8.86 r 1 h 8.96

Plate I 5723 taken Feb. 14, 1892
9.34 * 9.54 9.70 v = 9.62 08 08
8.22 g 2 r 8.42 8.46 r = 8.44 .02 .02
9.70 10.20
8.46 r 5 h 8.96

Plate I 5835 taken March 7, 1892
9.34 * 9.74 9.90 v = 9.82 08 08
8.22 g 4 r 8.62 8.66 r = 8.64 .02 .02
9.90 10.20
8.66 r 3 h 8.96

Plate I 5925 taken March 21, 1892
10.20
r 0 h 8.96 v = 10.20

* See note p.194

March 18, 1896

Plate C 4749 taken May 26, 1892
v < 11.5
r n.s. r < 9.94
11.40
9.84 m = .1

Plate C 4700 taken May 26, 1892
v < 11.5
r n.s. r < 9.94
11.40
9.84 m = .1

Plate I 6410 taken June 6, 1892
v < 12.6
r n.s. r < 10.50
12.44
10.30 p = .2

Plate I 6426 taken June 7, 1892
v < 12.5
r n.s. r < 10.36
12.36
10.26 o = .1

Plate C 5326 taken Jan. 20, 1893
13.92 14.32 14.35 v = 14.34 02 01
11.30 s 4 r 11.70 11.27 r = 11.48 .22 .21
14.35 14.55
11.27 r 2 t 11.47

Plate I 8428 taken April 19, 1893
10.20?
r 0 h? 8.96? v = 10.20?

Near edge images very different in shape

Mistake in recording at first

Plate I 8469 taken April 25, 1893
9.34 * 9.74 10.00 v = 9.87 13 13
8.22 g ~~2~~4 r 8.62 8.76 r = 8.69 .07 .07
10.00 10.20
8.76 r ~~4~~2 h 8.96

Plate I 8470 taken April 25, 1893
9.34 * 9.84 10.10 v = 9.97 13 13
8.22 g 5 r 8.72 8.86 r = 8.79 .07 .07
10.10 10.20
8.86 r 1 h 8.96

Plate C 5522 taken April 25, 1893
9.34 * 9.84 10.00 v = 9.92 08 08
8.22 g 5 r 8.72 8.76 r = 8.74 .02 .02
10.00 10.20
8.76 r 2 h 8.96

* See note p.194

March 18, 1896

S Urs. Maj. cont.

Plate C 5529 taken May 6, 1893
9.34 * 9.64 9.80 v = 9.72 .06 .08
8.22 g 3 r 8.52 8.56 r = 8.54 .02 .02
9.80 10.20
8.56 r 4 h 8.96

Images very poor

Plate C 5557 taken May 18, 1893
9.34 * 9.54 9.70 v = 9.62 .08 .08
8.22 g 2 r 8.42 8.46 r = 8.44 .02 .02
9.70 10.20
8.46 r 5 h 8.96

Images good

Plate C 5558 taken May 18, 1893
* 9.34 v = 9.34
r 0 g 8.22

Plate I 8577 taken May 25, 1893
* 9.34 ? ? v = 9.34 ?
r 0 g ? 8.22 ?

Corner of plate - Images differ greatly in shape

Plate C 5628 taken June 26, 1893
10.64 11.14 11.10 v = 11.12 .02 .02
9.41 l 5 r 9.91 9.54 r = 9.62 .19 .18
11.10 11.40
9.04 r 3 m 9.84

Plate C 5655 taken July 2, 1893
10.64 11.44 11.30 v = 11.37 .07 .07
9.41 l 8 r 10.21 9.74 r = 9.92 ? .19 .18
11.30 11.40
9.74 r 1 m 9.84

Plate C 5755 taken July 23 1893
12.44 12.84 13.02 v = 12.93 .09 .09
10.30 p 4 r 10.70 10.50 r = 10.60 .10 .10
13.02 13.82
10.50 r 3 q 10.80

Plate C 5810 taken Aug. 2, 1893
v < 12.6
r n. s. r < 10.50
12.44
10.36 p = .2

Plate I 9183 taken Aug. 13, 1893
v < 13.4
r n. s. r < 10.90
13.32
10.80 q = .1

* See note p. 194

March 18, 1896.

Plate C 5961 taken Sept. 9, 1893
v < 11.8
r n. s. r < 10.24
11.40
9.84 m = .4
o, p, q hidden by spectrum plate 5987

Plate C 6345 taken Dec. 17, 1893
9.34 * 9.54 9.60 v = 9.57 .03 .03
8.22 g 2 r 8.42 8.36 r = 8.39 .03 .03
9.60 10.20
8.36 r 6 h 8.96

h on edge of plate

Plate C 6346 taken Dec. 17, 1893
9.34 * 9.44 9.40 v = 9.42 .02 .02
8.22 g 1 r 8.32 8.16 r = 8.24 .08 .08
9.40 10.20
8.16 r 8 h 8.96

Plate C 6410 taken Dec. 31, 1893
9.34 * 9.64 9.70 v = 9.67 .03 .03
8.22 g 3 r 8.52 8.46 r = 8.49 .03 .03
9.70 10.20
8.46 r 5 h 8.96

Plate C 6579 taken Feb. 8, 1894
10.64 11.14 11.10 v = 11.12 .02 .02
9.41 l 5 r 9.91 9.54 r = 9.72 .19 .18
11.10 11.40
9.54 r 3 m 9.84

Plate C 6673 taken March 30, 1894
13.43 13.83 13.72 v = 13.78 .05 .06
10.87 k 4 r 11.27 11.10 r = 11.18 .09 .08
13.72 13.92
11.10 r 2 s 11.30

Plate C 6713 taken April 25, 1894
v < 13.4
r n. s. r < 10.90
13.32
10.80 q = .1

Plate C 6758 taken May 7, 1894
v < 12.5
r n. s. r < 10.36
12.36
10.26 o = .1

Plate C 6759 taken May 7, 1894
v < 12.6
r n. s. r < 10.46
12.36
10.26 o = .2

* See note p. 194

March 18, 1896

S Urs. Maj. Cont

Plate C 6830 taken June 5, 1894
v < 10.7
v n.s. v < 9.51
10.64
9.41 l = .1

Plate C 6858 taken June 21, 1894
10.64
v o l 9.41 v = 10.64

Plate C 6925 taken July 30, 1894
* 9.34
v o g 8.22 v = 9.34

Plate C 7058 taken Sept. 28, 1894
11.008 11.30 11.30 v = 11.30 .00 .00
9.5~~4~~ k 3 v 9.88 9.74 v = 9.81 .07 .07
11.30 11.40
9.74 v 1 m 9.84

Plate C 7173 taken Oct. 31, 1894
v < 11.9
v n.s. v < 10.16
11.60
9.86 n = .3

Plate C 7188 taken ~~Feb.~~ Nov. 3, 1894
v < 11.5
v n.s. v < 9.94
11.40
9.84 m = .1

Plate C 7270 taken Nov. 25, 1894
v < 13.4
v n.s. v < 10.96
13.32
10.80 q = .1

Plate C 7271 taken Nov. 25, 1894
v < 13.5
v n.s. v < 10.97
13.43
10.87 r = .1

Plate C 7344 taken Dec. 17, 1894
v < 13.5
v n.s. v < 11.02
13.32
10.80 q = .2

* See note p. 194

March 18, 1896

Plate C 7590 taken March 3, 1890
9.34 * 9.64 9.80 v = 9.72 .08 .08
8.22 g 3 v 8.52 8.56 v = 8.54 .02 .02
9.80 10.20
8.56 v 4 h 8.96

Plate C 7785 taken May 2, 1895
10.64 11.04 11.10 v = 11.07 .03 .03
9.41 l 4 v 9.81 9.54 v = 9.68 .13 .14
11.10 11.40
9.54 v 3 m 9.84

Plate C 7812 taken May 6, 1895
10.64 11.14 11.20 v = 11.17 .03 .03
9.41 l 5 v 9.91 9.64 v = 9.78 .13 .14
11.20 11.40
9.64 v 2 m 9.84

Plate C 7827 taken May 7, 1895
10.64 11.14 11.20 v = 11.17 .03 .03
9.41 l 5 v 9.91 9.64 v = 9.78 .13 .14
11.20 11.40
9.64 v 2 m 9.84

Plate C 7835 taken May 9, 1895
10.64
v o l ? 9.41 ? v = 10.64 ?

A part of this plate is badly fogged. The variable is on the edge of the fogged portion. Comparison stars m and n ~~are in~~ have very dark back-ground

Plate C 7836 taken May 9, 1895
10.64 11.24 11.30 v = 11.27 .03 .03
9.41 l 6 v 10.01 9.14 v = 9.58 .13 .14
11.30 11.40
9.74 v 1 m 9.84

edge of plate

Plate C 7881 taken May 23, 1895
11.60 12.14 12.26 v = 12.20 ? .06 .06
9.86 n 5 v 10.36 10.16 v = 10.26 .10 .10
12.26 12.36
10.16 v 1 o 10.26

Plate C 7882 taken May 23, 1895
11.60 12.10 12.26 v = 12.18 .08 .08
9.86 n 5 v 10.36 10.16 v = 10.26 .10 .10
12.26 12.36
10.16 v 1 o 10.26

* See note p. 194

March 18, 1896

S Urs. Maj. cont

Plate C 7951 taken June 30, 1895
v < 12.5
r n. s.   v < 10.40
4
12.~~2~~4 p = .1 10.30

Plate C 7993 taken July 18, 1895
v ≤ 11.9
r n. s.   v < 10.76
11.60
9.86 n = .3

Plate C 8117 taken Aug. 14, 1895
12.44   12.74   13.02   v = 12.88   14   14
10.30 p 3 r 10.60   10.50   v = 10.55   .05   .05
13.02   13.32
10.50 r 3 g 10.80

Plate C 8191 taken Aug. 30, 1895
11.40
r 0 m 9.84   v = 11.40

Plate C 8236 taken Sept. 4, 1895
11.00
r 0 k 9.58   v = 11.00

Plate I 13437 taken Sept. 5, 1895
10.64   11.24   11.20   v = 11.22   02   02
9.41 l 6 v 10.01   9.64   v = 9.~~7~~82   .19   .18
11.20   11.40
9.64 v 2 m 9.84

Plate I 13477 taken Sept. 10, 1895
10.64   11.14   11.10   v = 11.12   02   02
9.41 l 5 v 9.91   9.54   v = 9.72   .19   .18
11.10   11.40
9.54 v 3 m 9.84

Plate C 8268 taken Sept. 13, 1895
10.64   10.84   10.80   v = 10.82   02   02
9.41 l 2 v 9.61   9.24   v = 9.42   .19   .18
10.80   11.40
9.24 v 6 m 9.84

Plate C 8289 taken Sept. 15, 1895
10.64   10.74   10.90   v = 10.82   08   08
9.41 l 1 v 9.51   9.34   v = 9.42   .09   .08
10.90   11.40
9.34 v 5 m 9.84

*~~See note p. 194~~

March 18, 1896

Plate C 8324 taken Oct. 1, 1895
10.20
v 0 h 8.96   v = 10.20

Plate C 8430 taken Oct. 28, 1895
9.34 *   9.54   9.50   v = 9.52   02   02
8.22 g 2 v 8.42   8.26   v = 8.34   .08   .08
9.50   10.20
8.26 v 7 h 8.96

p not on plate

Plate C 8506 taken Nov. 27, 1895
9.34 *   9.94   10.24   v = 10.0~~4~~9   15   15
8.22 g 6 v 8.82   9.01   v = 8.92   .10   .09
10.24   10.64
9.01 v 4 l 9.41

Plate C 8521 taken Nov. 27, 1895
9.34 *   9.94   10.24   v = 10.09   15   15
8.22 g 6 v 8.82   9.01   v = 8.92   .10   .09
10.24   10.64
9.01 v 4 l 9.41

Plate C 8522 taken ~~Fe~~ Nov. 27, 1895
9.34 *   10.04   10.34   v = 10.~~38~~19   15   15
8.22 g 7 v 8.92   9.11   v = 9.02   .10   .09
10.34   10.64
9.11 v 3 l 9.41

Plate C 8543 taken Nov. 30, 1895
9.34 *   10.14   10.44   v = 10.29   15   15
8.22 g 8 v 9.02   9.21   v = 9.12   .10   .11
10.44   10.64
9.21 v 2 l 9.41

Plate C 8617 taken Dec. 17, 1895
10.64   11.24   11.20   v = 11.22   02   02
9.41 l 6 v 10.01   9.64   v = 9.82   .19   .18
11.20   11.40
9.64 v 2 m 9.84

Plate C 8673 taken Dec. 22, 1895
10.64   11.34   11.30   v = 11.32 ? ?   02   02
9.41 l 7 v 10.11   9.74   v = 9.92   .19   .18
11.30   11.40
9.74 v 1 m 9.84

Plate C 8808 taken Jan. 30, 1895
13.32
v 0 q 10.80   v = 13.32

Plate C 8876 taken Feb. 20, 1895 6
v < 12.6
v n. s.   < 10.50
12.44
10.30 p = .2

Continued III p 59

*See note p. 194

March 19, 1896.

Measures of the photographic brightness of O.C. Wendell's comparison stars to S Bootis.

Plate B 2066 taken Dec. 16, 1887

a	4.1	
b	5.5	5.8
c	6.5	6.8
d	6.7	7.0.
e		7.5
f	6.8	7.1
g		8.0
h		8.0
k		8.2
l		8.5
m		9.0
n		9.4
o		9.6
p		n.s.
q		n.s.
r		n.s
s		n.s.
v		7.5

Superseded - Measures reduced are in Vol. III pp 96-99

March 19, 1896

Plate I 6098 taken Apr. 13, 1892

Superseded

a	4.5		
b	5.7	6.0	
c	6.6	6.9	
d	6.7	7.0	
e		7.7	
f		7.5	
g		8.2	
h		8.3	
k		8.7	
l		8.9	
m		$9.\overset{3}{1}$	A mark on the glass caused mistake
n		9.6	
o		9.8	
p		10.0	
q		10.3	
r		n.s.	
s		n.s.	
v		7.6	

March 19, 1896

δ Bootis cont.

Plate I 10797 taken March 14, 1894

Superseded

a	4.7	5.0
b	6.0	~~7.5~~ 6.4
c		7.7
d		7.5
e		8.0
f		8.0
g		8.5
h		8.4
k		8.9
l		9.1
m		9.7
n		9.9
o		10.2
p		10.5?
q		n.s.
r		n.s.
s		n.s.
t		—
v		8.5

March 19, 1896

Plate I 11146 taken May 22, 1894

Superseded
See Vol 3 pp 96-103

a	4.9	5.2
b	6.4	6.8
c		~~7.5~~ 7.6
d		7.5
e		8.1
f		8.0
g		8.4
h		8.6
k		8.8
l		9.0
m		9.3
n		9.8
o		9.9
p		10.1
q		10.4?
r		n.s.
s		n.s.
v		7.7

Reduced, February 15, 1916
H.F.M.

March 19, 1896

Estimates of the brightness of S. Bootis.

a b d c f e g h k l m n o p q
Companion stars arranged in order of brightness.

extreme edge of plate — Plate B 1967 taken Nov. 30, 1887
9.98 10.08
9.36 v 1 f 9.46 v = 9.36 v = 9.98 ?
l not on plate

Extreme edge — Plate B 2046 taken Dec. 13, 1887
10.36 11.36
9.61 v 10 h ? 10.61 v = 9.61 ? v = 10.36 ? ?

Plate B 2066 taken Dec. 16, 1887
10.08 10.58 10.68 10.63 05 05
9.46 f 5 v 9.96 9.96 = 9.96 00 00
10.68 11.08
9.96 v 4 g 10.36

edge of plate — Plate B 2078 taken Dec. 19, 1887
10.98 11.08
10.26 v 1 g 10.36 v = 10.26 v = 10.98 ?
f is apparently so much brighter than g (owing to pos. on edge of plate) that I cannot use it for comparison.

Plate B 2201 taken Jan. 19, 1888
Not on plate

Plate I 1164 taken May 16, 1890
v n. s. < 11.8 < 13.~~4~~3
13.26
11.72 n = .1

Images very poor — Plate I 1774 taken Sept. 1, 1890
11.36 11.46 11.13 11.30 16 17
10.61 h 1 v 10.71 10.22 = 10.46 .25 .24
11.13 11.73
10.22 v 6 k 10.82

Reduced, February 15, 1916
H.F.M.

March 19, 1896

edge of plate — Plate I 2210 taken Nov. 6, 1890
10.08 10.78 10.88 10.83 05 05
9.46 f 7 v 10.16 10.16 = 10.16 00 00
10.88 11.08
10.16 v 2 g 10.36

Plate I 2211 taken Nov. 6, 189~~1~~0
v n. s.
10.08 v < 10.~~5~~4
9.46 f = .4 v < 9.8 ?
g n. s.

Plate C 3307 taken Jan. 8, 1891
13.26 13.56 13.42 13.49 89 07 07
11.72 n 3 v 12.02 10.76 = 10.~~94~~ .13 .13
13.42 13.52
10.76 v 1 o 11.86

Plate C 3340 taken Jan. 20, 1891
v o o 13.52 v = 13.52

Plate C 3403 taken Feb. 4, 1891
v n. s. v < 13.0
v ~~<~~ 11.6
12.84
11.42 m = .2

Plate C 3404 taken Feb. 4, 1891
v n. s. v < 13.6
v < 11.9
13.52
11.86 o = .1

Plate C 3435 taken Feb. 10, 1891
v n. s. v < 14.2
v < 12.4
14.04
12.24 p = .2

Plate C 3436 taken Feb. 10, 1891
v n. s. v < 13.3
v < 11.82
13.26
11.72 n = .1

Plate C 3463 taken Feb. 12, 1891
v n. s.
12.84 v < 13.0
11.42 m = .2 v < 11.6

Reduced. February 15, 1916
E.F.M.

March 20, 1896

S Bootis cont.

Plate C 3486 taken Feb. 18, 1891
v 0 ~~d~~ p 14.04   v = 14.04

Plate C 3505 taken Feb. 22, 1891
13.52   13.92   13.984   v = 13.93   01   01
11.86 o 4 v 12.26   12.14 = 12.20   .06   .06
13.94   14.04
12.14 v 1 p 12.24

Plate C 3511 taken Feb. 27, 1891
14.44   14.54   14.54   v = 14.54   00   00
12.56 q 1 v   12.66   12.26 = 12.46   .20   .20
14.54   15.04
12.26 v 5 n 12.76

Plate C 3537 taken March 5, 1891
v < 14.2
v n.s.   v < 12.4
14.04
12.24 p = .2

Plate C 3554 taken March 13, 1891
v < 13.4
v n.s.   v < 11.9
13.26
11.72 n = .2

Plate I 3335 taken March 25, 1891
14.04? v 0 p? 14.04   v = 14.04?

There is a defect in the plate apparently in the place of o making comparison somewhat uncertain

Plate C 3591 taken March 29, 1891
12.84   13.24   13.16   13.20   04   04
11.42 m 4 v   11.82   11.62   11.72   .10   .10
13.16   13.26
11.62 v 1 n 11.72

Plate C 3607 taken April 6, 1891
12.18
11.02 l 6 v   12.78   12.64   12.71   07   07
12.84
12.64 v 2 m 11.42

Plate C 3616 taken April 8, 1891
12.18 l 2 v   12.38   12.34   v = 12.36   02   02
12.34 v 5 m 12.84

Reduced February 15, 1916
E.F.M.

March 20, 1896

Plate C 3624 taken April 9, 1891
12.18 l 2 v   12.38   12.34   v = 12.36   02   02
12.34 v 5 m 12.84

Plate I 3451 taken April 22, 1891
v n.s.
10.08   v < 10.4
9.46 f = .4   v < 9.86
g n.s.

Plate C 3681 taken May 1, 1891
10.08   10.48   10.88   10.68   20   20
9.46 f 4 v   9.86   10.16   10.01   .15   15
10.88   11.08
10.16 v 2 g 10.36

Plate C 3694 taken May 4, 1891
10.08   10.58   10.78   10.68   10   10
9.46 f 5 v   9.96   10.06 = 10.01   .05   .05
10.78   11.08
10.06 v 3 g 10.36

Plate C 3702 taken May 10, 1891
10.08   10.68   10.88   10.78   10   10
9.46 f 6 v   10.06   10.16 = 10.11   .05   .05
10.88   11.08
10.16 v 2 g 10.36

Plate I 3597 taken May 18, 1891
10.08   10.38   10.58   10.48   10   10
9.46 f 3 v   9.76   9.86 = 9.81   .05   .05
10.58   11.08
9.86 v 5 g 10.36

very good plate

Plate I 3600 taken May 18, 1891
10.08   10.18   10.38   10.28   10   10
9.46 f 1 v   9.56   9.66 = 9.61   .05   .05
10.38   11.08
9.66 v 7 g 10.36

Plate I 3688 taken June 8, 1891
9.54   9.84   9.88   9.86   02   02
8.97 d 3 v   9.27   9.26 = 9.26   .01   .00
9.88   10.08
9.26 v 2 f 9.46

Plate I 5841 taken March 7, 1892
9.54   9.94   9.88   9.91   03   03
8.97 d 4 v   9.37   9.26   9.32   .05   .06
9.88   10.08
9.26 v 2 f 9.46

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

March 20, 1896

S Bootis cont.

Plate I 6098 taken April 13, 1892

10.08 10.28 10.48 10.38 10 10
9.46 f 2 v 9.66 9.76 = 9.71 .05 .05
10.48 11.08
9.76 v 6 g 10.36

Extreme edge of plate

Plate I 6099 taken April 13, 1892

10.08 10.28 10.58 10.43 15 15
9.46 f 2 v 9.66 9.86 = 9.76 .10 .10
10.58 11.08
9.86 v 5 g 10.36

Plate I 6268 taken May 16, 1892

12.18 v o l ? 12.18 11.86 v = 12.02 16 16

11.36 l 5 v 11.86

That Image for l may be a defect in plate. It is a mere shadow on extreme edge

Plate I 6415 taken June 6, 1892

v o m 12.84 v = 12.84

Plate C 4804 taken June 12, 1892

v n. s. r < ~~11.5~~ 8 11.5
12.84 4
11.~~4~~2 m = .1 v < 12.9

Plate C 4806 taken June 12, 1892

v n. s. ~~r < 11.2~~ < 11.0
11.73 10.82
11.02 k = .2 v < 11.9

Plate C 4807 taken June 12, 1892

v n. s. r < 11.1
12.18
11.02 l = .1 v < 12.2

Plate C 4824 taken June 20, 1892

v n. s. r < 11.8
13.26
11.72 n = .1 v < 13.3

Reduced February 17, 1916
G.F.M.

March 20, 1896

Plate C 4825 taken June 20, 1892

v n. s.
9.28
8.80 c = .2 r < 9.0 v < 9.4

Plate C 5378 taken Feb. 15, 1893

v o k 11.73 v = 11.73

Images extremely faint

Plate C 5617 taken June 20, 1893

12.18 12.28 12.44 12.36 08 08
11.02 l 1 v 11.12 11.02 = 11.07 .05 .05
12.44 12.84
11.02 v 4 m 11.42

Plate C 5619 taken June 20, 1893

v o l 12.18 v = 12.18

Images very faint

Plate C 5618 taken June 20, 1893

12.18 12.28 12.44 12.36 08 08
11.02 l 1 v 11.12 11.02 = 11.07 .05 .05
12.44 12.84
11.02 v 4 m 11.42

Plate C 5637 taken June 29, 1893

11.73 v o k 11.73 v = 11.73

Plate C 5641 taken June 30, 1893

11.36 11.66 11.63 11.64 02 01
10.61 l 3 v 10.91 10.72 = 10.82 .09 .10
11.63 11.73
10.72 v 1 k 10.82

Plate C 5642 taken June 30, 1893

11.36 11.76 11.63 11.70 06 07
10.61 l 4 v 11.01 10.72 = 10.86 .15 .14
11.63 11.73
10.72 v 1 k 10.82

Plate C 5656 taken July 2, 1893

11.36 11.76 11.63 11.70 06 07
10.61 l 4 v 11.01 10.72 10.86 .15 .14
11.63 11.73
10.72 v 1 k 10.82

Reduced February 17, 1916
G.F.M.

March 20, 1896

δ Bootis cont

Plate C 5811 taken Aug. 2, 1893
9.28 9.78 9.88 9.83 05 05
8.80 C 5 v 9.30 9.26 = 9.28 .02 .02
9.88 10.08
9.26 v 2 f 9.46

extreme edge - Images bad -

Plate I 9186 taken Aug. 13, 1893
v 0 C 9.28 v = 9.28

extreme edge

Plate I 9187 taken Aug. 13, 1893
9.28 9.58 9.58 9.58 00 00
8.80 C 3 v 9.10 8.96 = 9.03 .07 .07
9.58 10.08
8.96 v 5 f 9.46

Plate C 5962 taken Sept. 9, 1893
9.28 9.68 9.78 9.73 05 05
8.80 C 4 v 9.20 9.16 9.18 .02 .02
9.78 10.08
9.16 v 3 f 9.46

Plate C 6411 taken Dec. 31, 1893
v n. s, r < 11.1
11.36
10.92 L = .2 v < 11.5

Plate C 6529 taken Jan. 30, 1894
v < 12.4
v n. s, r < 11.3
12.18
11.02 L = .3

Plate C 6580 taken Feb. 8, 1894
v < 12.9
v n. s, r < 11.5
12.84
11.42 m = .1

Plate I 10797 taken March 14, 1894
11.36 11.56 11.48 11.506 06 07
10.61 L 2 v 10.81 10.52 = 10.66 .15 .14
11.43 11.73
10.52 v 3 K 10.82

extreme edge

Plate I 10821 taken March 16, 1894
v 0 L? 11.36? v = 11.36?

Plate I 10830 taken March 16, 1894
11.36 11.56 11.33 11.50 06 07
10.61 L 2 v 10.81 10.42 = 10.62 .19 .20
11.33 11.73
10.42 v 4 K 10.82

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

March 20, 1896

Plate I 10880 taken March 23, 1894
10.08 10.88 10.98 10.93 05 05
9.46 f 8 v 10.26 10.26 = 10.26 .00. 00
10.98 11.08
10.26 v 1 g 10.36

Plate C 6674 taken March 30, 1894
10.08 10.58 10.68 10.63 05 05
9.46 f 5 v 9.96 9.96 = 9.96 00 00
10.68 11.08
9.96 v 4 g 10.36

Plate I 10989 taken April 9, 1894
v 0 f 10.08 v = 10.08

Plate C 6714 taken April 25, 1894
9.28 8.80 9.68 9.20 9.78 9.73 05 05
~~9.79~~ C 4 v ~~10.19~~ 9.16 = 9.18 .02 .02
9.78 10.08
9.16 v 3 f 9.46

Plate C 6769 taken May 8, 1894
v 0 C 9.28 v = 9.28

Plate I 11146 taken May 22, 1894
9.28 9.48 9.78 9.63 15 15
8.80 C 2 v 9.00 9.16 = 9.08 .08 08
9.78 10.08
9.16 v 3 f 9.46

Plate C 6826 taken June 4, 1894
9.28 9.68 9.88 9.78 10 10
8.80 C 4 v 9.20 9.26 = 9.23 .03 03
9.88 10.08
9.26 v 2 f 9.46

Plate C 6827 taken June 4, 1894
9.28 9.58 9.88 9.73 15 15
8.80 C 3 v 9.10 9.26 = 9.18 .08 08
9.88 10.08
9.26 v 2 f 9.46

Plate I 11177 taken June 13, 1894
v 0 f 10.08 v = 10.08

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

March 20, 1896

S Bootis cont

Plate C 6926 taken July 30, 1894
v 0 l 12.18 v = 12.18

Plate C 7059 taken Sept. 28, 1894
v n.s. r < 10.7
11.36
10.61 L = .1 v < 11.4

Plate C 7174 taken Oct. 31, 1894
v n.s. r < 10.7
11.36
10.61 L = .1 v < 11.4

Plate C 7189 taken Nov. 3, 1894
v n.s. r < 8.9
9.28
8.80 C = .1 v < 9.3

Plate C 7190 taken Nov. 3, 1894
v n.s. r < 8.9
9.28
8.80 C = .1 v < 9.3

Plate C 7345 taken Dec. 17, 1894
v 0 L 11.36 v = 11.36

Plate C 7433 taken Jan. 17, 1895
10.08 10.48 10.48 v = 10.48 00 00
9.46 f 4 v 9.86 9.76 r = 9.81 .05 .05
10.48 11.08
9.76 v 6 g 10.36

Plate C 7434 taken Jan. 17, 1895
10.08 10.38 10.58 10.48 10 10
9.46 f 3 v 9.76 9.86 = 9.81 .05 05
10.58 11.08
9.86 v 5 g 10.36

Plate C 7552 taken Feb. 20, 1895
10.08 10.28 10.48 10.38 10 10
9.46 f 2 v 9.66 9.76 = 9.71 .05 05
10.48 11.08
9.76 v 6 g 10.36

Reduced February 17, 1916
G.F.M.

March 20, 1896

Plate C 7553 taken Feb. 20, 1895
v 0 f 10.08 v = 10.08
Extreme edge of plate

Plate C 7591 taken March 3, 1895
v 0 f 10.08 v = 10.08

Plate C 7698 taken April 16, 1895
11.36 11.66 11.63 11.64 02 01
10.61 L 3 v 10.91 10.72 = 10.82 .09 .10
11.63 11.73
10.72 v 1 k 10.82

extreme
edge

Plate I 12706 taken April 17, 1895
11.36 11.76 11.63
10.61 L 4 v 10.01 10 v = 11.70 06 07
11.63 11.73
10.72 v 1 k 10.82

Plate I 12707 taken April 17, 1895
v 0 k 11.73 v = 11.73

Plate C 7726 taken April 18, 1895
v 0 k 11.73 v = 11.73

Plate C 7786 taken May 2, 1895
12.18
11.02 l 3 v 12.48 12.34 v = 12.41 07 07
12.84
12.34 v 5 m 11.42

Plate C 7813 taken May 6, 1895
v n.s. r < 10.7
11.36
10.61 L = .1 v < 11.4

Plate C 7828 taken May 7, 1895
12.18 l 7 v 12.88 12.74 v = 12.81 07 07
12.74 v 1 m 12.84

Reduced February 17, 1916
G. F. M.

March 20, ~~11~~ 1896

S Bootis ant.

Plate C 7994 taken July 18, 1895
11.36 v n. s. r < 10.9
10.61 l = .3 v < 11.6

Plate C 8118 taken Aug. 14, 1895
12.18 l 3 v 12.48 12.24 v = 12.36 12 12
12.24 v 6 m 12.84

Plate I 13238 taken Aug. 16, 1895
v 0 l 12.18 v = 12.18

Plate C 8193 taken Aug. 30, 1895
v 0 g ? 11.08 v = 11.08 ?
Images exceedingly faint

Plate C 8237 taken Sept. 4, 1895
11.08 11.38 11.16 11.27 11 11
10.36 g 3 v 10.66 10.41 = 10.54 .12 .13
11.16 11.36
10.41 v 2 l 10.61

Plate C 8269 taken Sept. 13, 1895
10.08 10.78 10.88 10.83 05 05
9.46 f 7 v 10.16 10.16 = 10.16 00 00
10.88 11.08
10.16 v 2 g 10.36

Plate I 13548 taken Sept. 30, 1895
10.08 10.58 10.68 10.63 05 05
9.46 f 5 v 9.96 9.96 = 9.96 .00 00.
10.68 11.08
9.96 v 4 g 10.36

Plate C 8325 taken Oct. 1, 1895
10.08 10.48 10.58 10.53 05 05
9.46 f 4 v 9.96 9.86 = 9.86 .00 .00
10.58 11.08
9.86 v 5 g 10.36

Images very faint

Plate C 8431 taken Oct. 28, 1895
9.28 9.78 9.98 9.88 10 10
8.80 c 5 v 9.30 9.36 = 9.33 .03 03
9.98 10.08
9.36 v 1 f 9.46

Measured with w

N. B

~~C 3451~~
~~I 3159~~
~~I 3160~~

C 3429

8718

R Lyncis. Assume star $r = r'$

Reduce plates measured by H. S. L. using comparisons with r, but keep a list of all such plates for later discussion.

December 19, 1914.

Comp. star p. rejected. Var!

$f = f'$

$h = h'$

$o = o'$

$o' = o^2$

$r = r'$