KG
11365
934

KG11365.937

Contents of Book 4

Page
5 Exam. of Plates for "Unknown Star" at 7h 29m.8 + 30° 28'.2
7,8 Williams Variable RW Lyrae (17,1902) 184243 Scale meas.
9-34 " " " " " " " Est. of Brightness
35,36 " " RU Androm. 11,1903 013238 Scale meas.
37-65 " " " " " " " Est. of Brightness
66,67 Ceraski's " RS Geminorum 14,1903 065530 Scale Meas.
68-110 " " " " " " " Est. of Brightness
111-113 " " " " " " " Exam. for variation in Comp star l
114,115 " " Z Cephei 15 1903 021281 Scale Meas.
116-141 " " " " " " " Est. of Brightness
142 Exam. of Plates for Variation in 5,1903 and 6,1903
143-149 Ceraski's Variable V Sagittae 21,1902 201520 Est. of brightness
150 Re-examination of Plates for Kapteyn's Variable (?) 074923 Puppis
151 Ceraski's V Sagittae Est. of Brightness
152-157 Superseded Estimates of Brightness of 5,1903 and 6,1903 Tauri
158,159 5,1903 and 6,1903 054615 and 054715 Scale Measures
160-193 " " " " " " Est. of Brightness
194 Examination of Plates for star near DM+7° 1772 Susp. Var. by Mr. Wendell
196-198 5,1903 and 6,1903 Est. of Brightness ~~Scale Measures~~
199-210 6,1903 and Companion Star h Est. of brightness
212-213 Companion Star h for 6,1903 " " "
214 Ceraski's RS Geminorum 14,1903 06 5530 Reexam. of certain plates
215 5,1903 and 6,1903 Est. of brightness

KG 11365.934

HARVARD
UNIVERSITY
LIBRARY
JUL 17 1956

October 27, 1903

Examination of Plates for "Unknown Star" quoted in ~~A.M.~~ Proceedings of Am. Acad. of Arts and Sciences Vol I p. 17 in Harvard obs. on June comet of 1845 Approx. pos. 1855
$7^h 29^m.8$ $+30° 28'.2$

Plate I 3316	March 25, 1891 ~~May 17, 1889.~~	
~~I 5598~~	March 16, 1892	
I 17718	~~Oct. 27, 1896~~	March 31, 1897
I 24069	~~Sept. 6, 1899~~	Nov. 15, 1899

On the first three of these I find a faint star (magn 11 or fainter) in the position indicated. The last (I 24069) is too poor to show a star so faint.

Superposition proves the object on I 5598 to be probably not a star image but a defect

Seen also on

I 8302	March 29, 1893 ~~Aug. 11, 1892~~	
1097	Apr. 29, 1890	
17701	~~Oct. 14, 1896~~	March 30, 1897
30058	~~June 14, 1902~~	Feb. 22, 1903

On these plates it shows no variation

Position measured Carnegie Bk 2 p 33

October 27, 1903

~~Suspected Variable found by H.S.L. near "unknown star" of prev. page. Approx. pos. 7h 29m.5 + 30° 31'.0 (1855)~~

~~Examination of several plates shows that the suspected variable is not a star but defects in nearly the same position on two plates caused the mistake.~~

~~The image on Plate I 3316 is remarkably similar to a star image. Can it possibly be so? It appears on none of the following plates~~
~~I 8302 (A star like image appears remarkably close to pos.~~
~~I 24069.~~

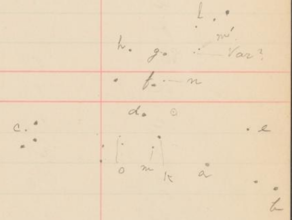
~~I find it to be a prismatic companion!~~

October 28, 1903

Measures to determine magnitude of Comparison Stars for Williams Variable, "17, 1902"
18h 40m 45s.1 +43° 29'.2

Plate I 16107

Var	9.1
a	~~6~~7.5
b	~~6~~7.7
c	8.0
d	8.0
e	8.3
f	8.7
g	8.9
h	9.2
k	9.3
l	9.4
m	9.8
n	10.0
o	10.5
(Var?)	9.7
m'	9.6



I 23090 Images poor

Var	9.3
a	7.0
b	7.4
c	8.0
d	8.2
e	8.4
f	~~9.0~~ 8.8
g	9.0
h	9.2
k	9.5
l	9.6
m	9.9
n	10.1
o	10.5
Var?	9.9
m'	9.9

October 28, 1903

174243 Williams Var. "17, 1902" Continued

Plate I 25451

Var	n.s.
a	7.0
b	7.1
c	7.8
d	8.0
e	8.3
f	8.7
g	8.9
h	9.0
k	9.4
l	9.5
m	9.7
m′	9.7
n	9.9
o	10.4
(Var ?)	9.8

I 27432

V	n.s.
a	6.8
b	7.1
c	7.8
d	8.0
e	8.1
f	8.6
g	8.9
h	9.1
k	9.3
l	9.5
m	9.8
n	10.1
o	10.5
(Var)	9.8
m′	9.6

October 28, 1903

Williams Var. 17, 1902 –
Estimates of brightness

Plate √ I 23090
11.18 h 1 V 11.28 11.33 = 11.30 02 03.
11.33 V 1 k 11.43

√
I 27432, Sept. 6, 1901
12.52 0 3 V 12.8

√
I 25451, June 11, 1900
12.52 0 3 V 12.8

Crossed off on plate list.
I 11451
Reg. not on plate

√
I 11355, Aug. 17, 1894
Extreme edge. I think the variable appears but am not certain. I can make no estimate of brightness. Too near edge

Crossed off on plate list.
I 9205 Aug. 22, 1893
Var. off edge

√
Edge of Plate I 28853, May 31, 1902
12.07 n 5 V 12.57 12.52 = 12.54. 03, 02.
12.52 V 0 0 12.52
m′ 1 ?
m too near edge

October 28, 1903

Williams Var 17, 1902 Cont

Plate ✓ I 22799, April 28, 1899
10.98 g 3 v 11.28 11.08 = 11.18 10 10
11.08 v 1 h 11.18
(?) 0 m'

✓ I 9002, July 30, 1893
12.07 n 3 N 12.3 (?) 0 m'

✓ I 18538, Aug. 13, 1897
12.07 n 2 N 12.2

✓ I 6939, Sept. 9, 1892
11.55 l 1 v 11.65 11.55 = 11.60 05 05
(?) 0 m' 11.55 v 3 m 11.85

✓ I 6641 July 23, 1892
11.18 h 1 v 11.28 11.13 = 11.20 08 07
11.13 v 3 k 11.43
k 2 (?)
(?) 0 l
(?) 3 m'

✓ I 13316, Sept. 1, 1895
11.85 m 1 v 11.95 11.67 = 11.81 14 14
11.67 v 4 n 12.07
m' 3 (?)
(?) 2 m

✓ I 21341, Oct. 6, 1898
12.07 n 2 N 12.2
m' 0 (?)

October 28, 1903

Williams Var. 17, 1902 Cont.

Plate ✓ I 19014, Sept. 25, 1897
12.07 n 2 N 12.2
(?) 0 m'

✓ I 1648, Aug. 16, 1890
11.43 k 1 N 11.5

✓ I 4125 Sept. 2, 1891
11.18 h 1 N 11.2

✓ I 8795, July 16, 1893
11.85 m 1 N 11.9

✓ I 25569, July 17, 1900 Spectrum plate
10.12 d 1 N 10.2

✓ I 27059, June 10, 1901
Reg not on plate

Crossed off on plate list

I 27157, June 29, 1901
Reg not on plate

"

I 27323, Aug. 16, 1901
Reg not on plate

✓ I 27366, Aug. 28, 1901
12.07 n 2 N 12.2

✓ I 27466, Sept. 9, 1901
Class F not available

October 28, 1903

Williams Variable 17, 1902 Cont.

Crossed off on plate list. Plate I 27467, Sept. 9, 1901
Focus plate not available

I 27484, Sept. 14, 1901
Reg. not on Plate

I 27778, Oct. 11, 1901
11.85 m 1 N 11.9

I 29181, Aug. 27, 1902
Class 7 - not available

Crossed off on plate list I 29057 - Aug. 2, 1902
Too near edge

edge of plate I 29019, July 28, 1902
11.85 m 1 N 11.9
m 1 (?)
(?) 1 m

Crossed off on plate list. I 28995, July 12, 1902
Class 7

Extreme edge of plate I 25893, Oct. 2, 1900
9.14 a 4 v 9.54 9.27 = 9.40 14 13
b not on plate 9.27 v 7 c 9.97

I 25468, June 18, 1900
11.85 m 2 N 12.0

I 25460, June 15, 1900
Defect in plate in pos. of V makes measurement impossible

October 28, 1903

Williams Var. "17, 1902" Cont.

Edge of plate Plate I 23057, June 19, 1899
11.43 K 1 N 11.5

I 22962, May 26, 1899
10.98 g 2 v 11.18 10.98 = 10.08 10 10
10.98 v 2 h 11.18
A defect on plate close to V makes meas. somewhat doubtful

I 21342, Oct. 6, 1898
11.43 K 2 N 11.6

Crossed off on plate list I 21340, Oct. 6, 1898
Reg. not on plate

Near edge I 18553, Aug. 17, 1897
12.52 o 2 N 12.7
m 1 (?)
m too near edge

I 18963, Sept. 21, 1897
11.18 h 2 N 11.3

Crossed off on plate list. I 22895, May 23, 1899
Reg. not on plate

I 20122, Feb. 1, 1898. Spectrum Plate
Too near edge

I 20593, April 1, 1898. Spectrum Plate
10.76 f 1 N 10.8

October 28, 1903

Williams Var. 17, 1902 Cont

✓ ~~Plate~~ I 22939 May 25, 1899
Reg. not on Plate

✓ I 20895 June 21, 1898
Too Poor

✓ I 15238, June 2, 1896
Reg. not on Plate

Edge of plate ✓ I 15385, June 29, 1896
11.55 l 2 v 11.75 11.55 = 11.65 10 10
11.55 v 3 m 11.85

✓ I 15692, Aug. 12, 1896
Reg. not on Plate

Crossed off on plate lists

I 18273, June 23, 1897
Class 7

I 16396, Oct. 31, 1896
Reg. not on Plate

✓ I 16383, Oct 28, 1896
11.43 k 1 N 11.5

✓ I 16126, Oct. 9, 1896
10.98 g 3 v 11.28 11.08 = 11.18 10 10
11.08 v 1 h 11.18

m' 1(?)
(?) 1 m

October 28, 1903

Williams Var. Cont.

✓ I 3978, Aug. 10, 1891
Too near edge

✓ I 12320, Feb. 10, 1895
Too near edge

Edge of plate ✓ I 13351, Sept. 2, 1895
11.85 m 1 v 11.95
or n.s.

Crossed off on plate lists

I 13435, Sept 5, 1895
Class 7

I 985, April 7, 1890
Wrong region

I 1490 Wrong region

I 3895 Too near edge

✓ I 4038, Aug. 19, 1891
12.07 n 1 N 12.1
I 2163, Too near Edge
I 2320, " " "

✓ I 11318, Aug. 6, 1894
Spectrum Plate - Too faint in reg.

✓ I 8818, July 19, 1893
Var. off edge

October 28, 1903

Williams Var. 17, 1902 Cont,

√
I 8873, July 21, 1893
Var. off edge

√
I 8874, July 21, 1893
Var. off edge

√
I 9406, Sept. 8, 1893
Class M – not available
√
I 9454 " " " "
√
I 7293, Oct. 10, 1892
Spectrum plate – too faint

√
I 6914, Sept. 8, 1892
Var. off edge

√
I 6758,
10.76 f 2 N 10.9

√
I 6632, July 21, 1892
Var. off edge

√
I 4000, Aug. 13, 1891
10.98 g 1 N 11.0
√
I 3864, July 17, 1891
11.18 h 1 N 11.2
√
I 1564, Aug. 2, 1890
10.76 f 1 N 10.8

October 28, 1903

Williams Var. 17, 1902 Cont.

√
I 1565, Aug. 2, 1890
10.98 g 1 N 11.0

√
I 984, April 7, 1890
12.07 n 1 N 12.1

√
I 29019,
July 28, 1902
12.07 n 1 N 12.1

√
a 872, Sept. 23, 1894
10.76 f 2 N 10.9

√
a 5237, May 27, 1901
12.07 n 1 N 12.1
√
a 1656, Sept. 12, 1895
11.85 m 2 N 12.0

√
a 5258, May 28, 1901
12.52 o 1 N 12.6
√
a 1633, Sept. 1, 1895
11.85 m 3 V 12.15 11.97 = 1$\overset{2}{\cancel{1}}$.06 .09 .09
11.97 v 1 n 12.07
√
a 818, Aug. 18, 1894
12.52 o 1 N 12.6
√
a 795, Aug. 14, 1894
12.07 n 2 N 12.2

October 28, 1903

Williams Var. 17, 1902 Cont

√ Plate AC 2705, July 28, 1902
Too poor

√ AC 2677, July 10, 1902
11.18 h 2 N 11.3

√ AC 2710, July 30, 1902
Too faint in Reg.

√ AC 2738, Aug. 12, ~~1892~~ 1902
Too near edge

October 29, 1903

Williams Var. Cont. (17, 1902)

Plate √ AC 1774, Sept. 2, 1901
11.18 h 1 N 11.2

√ AC 1288, Feb. 24, 1901
9.97 c 1 N 10.0

√ AC 1013, Sept. 24, 1900
9.14 a 1 v 9.24 9.09 = 9.16 08 07
9.09 v 3 b 9.39

√ AC 2643, June 23, 1902
10.76 f 2 N 10.9

√ AC 1769, Sept. 22, 1901
Too poor

√ AC 842, April 30, 1900
10.34 l 1 N 10.4

Images very poor – Near edge

√ AC 995, Sept. 7, 1900
9.14 a 2 v 9.34 9.57 = 9.46 12 11
~~v 2 d~~
9.57 v 4 c 9.97

√ AC 1707, Sept. 4, 1901
9.97 c 1 N 10.0

√ AC 1983, Nov. 20, 1901
11.18 h 1 N 11.2

October 29, 1903

Williams Var. 17, 1902 Cont.

↓ Plate AC 1521, June 10, 1901
10.76 f 1 N 10.8

↓ AC 746, March 10, 1900
10.76 f 1 N 10.8

↓ AC 2803, Sept. 2, 1902 Isochromatic
Too poor

↓ AC 1973, Nov. 10, 1901
11.18 h 1 N 11.2

↓ AC 1860, October 11, 1901
9.97 c 1 N 10.0

↓ AC 768, March 16, 1900
Repeated images - Too poor

↓ AC 1437, May 3, 1901
9.14 a 2 N 9.3

↓ AC 2779, Aug. 26, 1902
10.12 d 1 N 10.2

↓ AC 1586, June 30, 1901
10.34 e 1 N 10.4

↓ AC 473, Oct. 12, 1899
9.97 c 1 N 10.0

October 29, 1903

Williams Var. 17, 1902 Cont.

↓ Plate AC 2973, Nov. 3, 1902

Images very poor

10.98 g 1 # ~~xo~~ 11.08
L n s.

AC 701, Jan. 31, 1900
V off edge

Crossed off on Plate Lists.

↓ AC 2871, Oct. 8, 1902
11.18 h 1 N 11.2

✓ AC 1532, June 12, 1901
Spectrum Plate. Too poor in reg. of Var.

↓ AC 2826, Sept. 10, 1902
10.76 f 1 N 10.8

↓ AC 1631, July 30, 1901
Class 7

↓ AC 2349, Feb. 19, 1902
10.98 g 2 N 11.1

~~AC 2882, Oct. 9, 1902~~

↓ AC 2791, Aug. 29, 1902
Too near edge

↓ AC 2882, Oct. 29, 1902
10.98 g 2 N 11.1

↓ AC 1614, July 14, 1901
10.12 d 1 N 10.2

October 29, 1903

Williams Var "~~19, 1903~~ 17, 1902" (?) Continued

AC 2855, Oct. 4, 1902
Too poor in Reg. of Var.

AC 2051, Dec. 5, 1901
9.97 c 1 N 10.0

AC 2772, Aug. 23, 1902
9.39 b 1 N 9.4

AC 2978, Nov. 7, 1902
10.98 g 1 N 11.0

Isochromatic AC 280, April 10, 1899
10.76 f 1 V 10.86 10.68 = 10.77 .09 .09
Very faint 10.68 V 3 g 10.98

AC 1949, Nov. 3, 1901
10.76 f 1 N 10.8

AC 2835, Sept. 12, 1902
Too poor in Reg. of Var. Corner of Plate

AC 312, April 28, 1899
10.76 f 3 V 11.06 10.88 = 10.97 .09 .09
10.88 V 1 g 10.98

AC 1578, June 28, 1901
10.76 f 1 N 10.8

October 29, 1903

Williams Var. "~~19, 1903~~ 17, 1902" (?) Cont.

AC 1899, Oct. 24, 1901
10.98 g 1 N 11.0

AC 2745, Aug. 19, 1902
10.76 f 2 N 10.9

AC 344, June 6, 1899
10.76 f 2 N 10.9

AC 2572, May 21, 1902
9.97 c 1 N 10.0

AC 821, April 15, 1900
10.76 f 1 N 10.8

AC 1506, June 5, 1901
Too poor

AC 1140,
Trails

AC 2721, Aug. 2, 1902
Too poor in reg. of Var

AC 2895, Oct. 12, 1902
9.97 c 1 N 10.0

AC 1300, Feb. 26, 1901
Too poor

AC 879, June 9, 1900
11.18 h 1 N 11.2

October 29, 1903

Williams Var. 17, 1902 Cont.

√ AC 1835, Oct. 6, 1901
10.12 df, 1 N 10.2

√ AC 2696, July 16, 1902
11.18 h, 1 N 11.2

√ AC 2888, Oct. 10, 1902
11.43 k, 1 N 11.5

√ AC 926, July 17, 1900
Too poor in Reg. of Var. - Corner of Plate.

√ AC 1552, June 17, 1901
10.34 l 1 N 10.4

√ AC 1891, Oct. 21, 1901
10.34 l, 1 N 10.4

√ AC 856, May 10, 1900
10.12 d 2 N 10.3

√ AC 466, Oct. 4, 1899
Too poor

√ AC 727, Feb. 19, 1900
10.76 f 1 N 10.8

√ AC 2678, July 10, 1902
10.34 l 2 N 10.5

October 29, 1903

Williams Var. 17, 1902, Cont.

√ AC 2924, Oct. 22, 1902
9.97 c, 1 N 10.0

√ AC 415, Sept. 5, 1899
9.97 c 1 N 10.0

√ AC 921, July 13, 1900
10.12 d 1 N 10.2

√ AC 1649, Aug. 11, 1901
10.34 l 1 N 10.4

√ AC 870, May 31, 1900
Too poor

√ AC 2999, Nov. 19, 1902
10.12 d 2 N 10.3

√ AC 328, May 24, 1899
10.34 l 1 N 10.4

√ AC 253, March 20, 1899
10.98 g 1 N 11.0

√ AC 1602, July 12, 1901
9.14 a 2 N 9.3

√ AC 2653, June 28, 1902
11.18 h, N 11.2

√ AC 2491, April 18, 1902
10.12 d, N 10.2

October 29, 1903

Williams Var. 17, 1902, Cont.

↓ AC 2549, May 13, 1902
11.18 h 1 N 11.2

↓ AC 1815, Oct. 3, 1901
10.34 l 1 N 10.4

↓ AC 501, Nov. 6, 1899
10.98 g 1 N 11.0

↓ AC 1391, March 30, 1901
Trails

↓ AC 797, April 5, 1900
10.34 l 2 N 10.5

↓ AC 2764, Aug. 19, 1902
9.39 b 2 N 9.5

↓ AC 95, Nov. 1, 1898
Too poor in reg. of Var. Edge of plate

↓ AC ~~3~~2844, Sept. 15, 1902
9.39 b 1 N 9.4

AC 841, April 30, 1900
9.39 b 2 N 9.5

↓ AC 2838, Sept. 14, 1902
10.12 d 1 N 10.2

October 29, 1903

Williams Var. 17, 1902 Cont

↓ AC 2639, June 22, 1902
10.76 f 1 N 10.8

↓ AC 890, June 20, 1900
10.34 l 1 N 10.4

↓ AC 1496, June 3, 1901
11.18 h 1 N 11.2

↓ AC 1974, Nov. 10, 1901
11.55 l 1 N 11.6

↓ AC 2592, May 30, 1902
11.18 h 1 N 11.2

↓ AC 2977, Nov. 7, 1902
11.18 h 2 N 11.~~2~~3

↓ AC 1701, Aug. 30, 1901
10.34 l ~~2~~ 1 N 10.4

↓ AC 2599, May 31, 1902
11.55 h 1 N 11.6

Corner of Plate ↓ AC 2358, Feb. 22, 1902
10.76 f 1 ~~N~~ ~~10.8~~ 10.86
g n s

↓ AC 2071, Dec. 11, 1901
10.34 l 1 N 10.4

October 29, 1903

~~AC~~ 297 Williams Var. Cont.

✓ AC 2976, Nov. 4, 1902
10.12 d 2 V? 10.32
c ms.
I am not sure of the identification of V

✓ AC 2567, May 20, 1902
10.76 f 1 N 10.8

✓ AC 1645, Aug. 8, 1901
10.98 g 1 N 11.0

✓ AC 3048, Dec. 6, 1902
11.18 h 1 N 11.2

✓ AC 2918, Oct. 21, 1902
10.76 f 2 N 10.9

✓ AC 1744, Sept. 14, 1901
Trails

✓ AC 2503, April 25, 1902
10.76 f 1 N 10.8

✓ AC 2014, Nov. 28, 1901
11.55 l 1 N 11.6

✓ AC 3026, Nov. 29, 1902
10.34 e 1 N 10.4

✓ AC 2848, Sept. 23, 1902
10.12 d 1 N 10.2

✓ AC 1671, Aug. 21, 1901
9.97 c 1 N 10.0

October 29, 1903

Williams Var 17, 1902 Cont.

✓ AC 2756 Aug. 16, 1902
10.76 f 1 N 10.8

✓ AC 2635, June 19, 1902
9.39 b 1 N 9.4

✓ AC 2866, Oct. 7, 1902
10.12 d 2 N 10.3

✓ AC 2492, April 18, 1902
Too poor

✓ AC 1954, Nov. 4, 1901
10.76 f 2 N 10.9

✓ AC 1644, Aug. 8, 1901
Close 7

✓ AC 502, Nov. 6, 1899
10.34 e 2 N 10.5

✓ AC 837, Apr. 28, 1900
Too poor

✓ AC 861, May 21, 1900
Too poor in reg. of var. Edge of Plate

✓ AC 918, July 9, 1900
Too poor in reg. Edge of plate

October 29, 1903

Williams Var. 17, 1902 Cont

✓ AC 1016, Sept. 25, 1900
Too poor in Reg. Edge of Plate

✓ AC 326, May 23, 1899
Too poor

✓ AC 133, Dec. 19, 1898
10.12 d 1 N 10.2

AC 337, May 26, 1899
10.76 f 1 r ? 10.86
g n.s.
Extreme edge of plate. Images very poor.

✓ AC 1099, Dec. 28, 1900
Too poor

✓ AC 3066, Dec. 9, 1902
10.98 g 1 N 11.0

✓ AC 1761, Sept. 21, 1901
10.34 e 1 N 10.4

✓ AC 2601, June 1, 1902
10.98 g 2 N 11.1

✓ AC 2463 April 4, 1902
Too poor

October 29, 1903

Williams Var. 17, 1902 Cont.

✓ AC 1804, Sept. 30, 1901
11.18 h 1 N 11.2

✓ AC 2598, May 31, 1902
10.98 g 2 N 11.1

✓ AC 1863, Oct. 15, 1901
10.98 g 1 N 11.0

✓ AC 776, March 21, 1900
10.76 f 1 N 10.8

✓ AC 2554, May 15, 1902
10.98 g 1 N 11.0

✓ AC 1453, May 8, 1901
11.18 h 2 N 11.3

✓ AC 1822, Oct. 4, 1901
10.98 g 2 N 11.1

✓ AC 426, Sept. 13, 1899
9.97 c 2 N 10.1

Excellent plate. Images clear

✓ AC 1268, Feb. 19, 1901
11.43 k 2 v 11.63 11.55 = 11.59 04 04
11.55 v 0 l 11.55
m n.s.

October 29, 1903

Williams Var. 17, 1902 Cont

AC 1022, Oct. 4, 1900
9.14 a 2 v 9.34 9.19 = 9.26 08 07
9.19 v 2 b 9.39

AC 943, July 31, 1900
10.34 e 1 N 10.4

AC 1767, Sept. 22, 1901
10.98 g 1 N 11.0

AC 2733, Aug. 9, 1902
10.76 f 1 N 10.8

AC 352, June 21, 1899
9.97 c 1 N 10.0

AC 1816, Oct. 3, 1901
10.34 e 1 N 10.4

AC 1713, Sept. 5, 1901
10.12 d 1 N 10.2

AC 2659, July 1, 1902
10.98 g 1 N 11.0

AC 2498, April 19, 1902
10.12 d 1 N 10.2

October 29, 1903

Williams Var. 17, 1902 Cont,

AC 1798, Sept. 27, 1901
9.39 b 2 N 9.5

AC 425 Sept. 13, 1899
Does not cover reg

AC 279, 390, 701, do not cover region

~~AC~~ I 8817, July 19, 1893
Var. off edge

I 25321, May 10, 1900
12.52 o 1 N 12.6

I 16107, Oct. 8, 1896
10.98 g 3 v 11.28 11.08 = 11.18 10 10
11.08 v 1 h 11.18

B 656, 660, 627, 1383 are spectrum plates too faint for use in Reg. of Var
1569 too faint - Spectrum
B 1653 - Reg. not on plate

AC 1512 June 6, 1901
10.76 f 1 N 10.8

AC 2955 Oct. 31, 1902
10.98 g 1 N 11.0

October 29, 1903

Williams Var. 17, 1902 Continued

↓ AC 1061, Aug. 16, 1901
10.12 d 11 10.2

↓ B 1752
Special plate not available

↓ B 2677 Spectrum plate - not available
too faint in reg.

↓ B 2807 Spectrum - too faint in reg. √

↓ B 3118, Spectrum of α Lyrae

↓ B 3122 Lens of Spectrum

November 30, 1903

I 20975, July 6, 1898
12.52 0 2 √ 12.72

November 10, 1903

Williams Variable "11, 1903" in Andromeda 1h 30m 10.9s
Magnitude of Comp. Stars +37° 55.6 {1855

Plate I 29728

a	6.8
b	7.~~4~~7
c	7.7
d	8.0
e	8.3
f	8.4
g	8.~~5~~6
h	8.8
k	9.0
l	9.3
m	9.6
n	9.9
o	10.4
p	0 3 p.
~~q~~	~~p 2 q~~
Var	0 2 v
	v 1 p

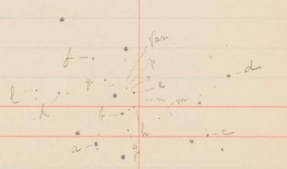


Plate I 19454

a	7.8
b	8.4
c	8.5
d	8.7
e	8.9
f	9.0
g	9.2
h	9.5
k	9.7
l	9.9
m	10.1
n	10.4
o	n.s.
p	n.s.
~~q~~	~~n.s.~~
Var	8.8

Sequence on I 29728

November 10, 1903

"11,1903" Williams. Continued

Plate I 9392

a	7.6
b	8.0
c	8.0
d	8.2
e	8.6
f	8.7
g	8.9
h	9.1
k	9.4
l	9.7
m	10.0
n	10.2
o	10.5
p	0 2 p
~~q~~	~~n.s.~~
Var	10.1

Plate I 27555

a	7.5
b	8.2
c	8.2
d	8.4
e	8.7
f	8.9
g	9.1
h	9.4
k	9.6
l	9.8
m	10.0
n	10.4
o	n 30
p	n.s.
~~q~~	~~n.s.~~
Var	10.1

November 10, 1903

"11,1903" Andromedae 0132 38

Estimates of brightness

Plate I 29728, taken Dec. 27, 1902

12.59 o 2 v 12.79 12.74 = 12.76 .03 .02

12.74 v 1 p 12.84

✓ Plate I 27555, Sept. 24, 1901

11.92 m 1 v 12.02 12.02 = 12.02 .00 .00

12.02 v 2 n 12.22

✓ I 158$\overset{32}{\cancel{23}}$, Aug. 30, 1896

9.44 a 5 v 9.94 9.89 = 9.92 .02 .03

9.89 v 2 b 10.09

✓ I 19454, Nov. 4, 1897

10.33 d 2 v 10.53 10.53 = 10.53 .00 .00

10.53 v 1 e 10.63

✓ I 10206, Dec. 18, 1893

9.44 a 6 v 10.04 9.99 = ~~8~~ 10.02 .02 .03

9.99 v 1 b 10.09

✓ I 24543, Feb. 5, 1900

11.20 h 2 v 11.40 11.42 11.37 = 11.40 .00 .02 .03

11.42 v 0 k 11.42

11.$\overset{8}{\cancel{4}}$7 v 3 l 11.67

✓ I 27387, Aug. 28, 1901

11.20 h 2 v ~~11.20~~ ~~11.0~~ 11.4

November 10, 1903

013238 "11,1903" Cont

I 26650, Feb. 18, 1901
Reg. not on plate

✓ I 26323, Dec. 26, 1900
10.95 g 3 N 11.21

Edge of plate ✓ I 26259, Dec. 18, 1900
12.22 n 1 N 12.3

Extreme edge of plate ✓ I 26258, Dec. 18, 1900
~~f 1 v~~ Too near edge
~~g, 1 n off edge~~

I 2378, Nov. 28, 1890
Reg. not on plate

Extreme edge of plate ✓ I 19636, Nov. 24, 1897
10.33 d 1 v 10.43 10.43 = 10.43 00 00
10.43 v 2 e 10.63

Extreme edge. Obs. doubtful ✓ I 14003 Dec. 3, 1895
10.33 d 2 v 10.53 - 10.43 = 10.48 05 05
10.43 v 2 e 10.63

I 2025, Jan. 15, 1891
Too near edge

I 2976, Feb. 5, 1891
Reg. not on plate

November 10, 1903

013238 "11,1903" Cont

I 2611, Dec. 27, 1890
Too poor

Edge of plate ✓ I 19593, Nov. 17, 1893
10.33 d 1 v 10.43 10.43 = 10.43 00 00
10.43 v 2 e 10.63

Edge of plate Obs. very doubtful I 14011, Dec. 3, 1895
10.11 c 1 v 10.21 10.23 = 10.22 01 01
11.23 v 1 d 10.33

✓ I 19645, Nov. 27, 1897 Spectrum plate
10.33 d 2 v 10.53 10.43 = 10.48 05 05
10.43 v 2 e 10.63

Extreme edge ✓ I 19711, Dec. 11, 1897
10.33 d 1 v 10.43 10.33 = 10.38 05 05
10.33 v 3 e 10.63

✓ I 15763 Aug. 20, 1896
Useless

Edge of plate. Images very poor ✓ I 13778, Nov. 4, 1895
10.75 f 1 v 10.85 10.75 = $10.\overset{8}{\cancel{7}}0$ 05 05
10.75 v 2 g 10.95

✓ I 19911, Jan. 3, 1898
Too poor

November 10, 1903

013238 "11, 1903" Cont.

Extreme edge of plate

✓ I 19973, Jan. 7, 1898
10.63 l 2 v 10.83 10.65 = 10.74 09 09
.6
10.85 v 1 f 10.75

✓ I 15766, Aug. 20, 1896
Too poor

✓ I 13752, Oct. 28, 1895
10.75 f 2 v 10.95 10.85 = 10.90 05 05
10.85 v 1 g 10.95

✓ B 1809 Too poor
✓ B ~~937~~ 882 " "
✓ B 1826 Too faint
B 931 does not cover reg. Crossed off on plate list.

✓ I 15767, Aug. 20, 1896
Too poor

✓ I 16874, Dec. 24, 1896
11.67 l 1 N 11.7

I 19476, Nov. 6, 1897
Reg. not on plate

✓ I 19161, Oct. 4, 1897
Too poor

✓ I 16883, Dec. 26, 1896
11.20 h 2 N 11.4

Nov. 10, 1903

"11, 1903" Cont.

✓ I 17024, Jan. 9, 1897
Spectrum plate - too faint

✓ I 171~~1~~26, Jan. 21, 1897
Spectrum plate - too faint

Extreme edge

✓ I 19479, Nov. 6, 1897
10.33 d 1 v 10.43 10.43 = 10.43 00 00
10.43 v 2 l 10.63

Near edge of plate

✓ I 26240, Dec. 15, 1900
11.67 l 2 v 11.87
m n.s.

✓ I 17225, Jan. 30, 1897, Spectrum pl.
9.44 a 1 N 9.5

✓ I 18830, Sept. 14, 1897
11.67 l 1 N 11.7

Edge of plate

✓ I 19976, Jan. 7, 1898
10.33 d 2 v 10.53 10.53 = 10.53 00 00
10.53 v 1 l 10.63

Edge of plate

✓ I 24605, Feb. 15, 1900
11.20 h 2 N 11.4

I 26244 - Reg. not on plate

November 11, 1903

"11, 1903" Cont.

Plate I 28073, Dec. 15, 1901
10.11 c 1 v 10.21 10.23 x = 10.22 $\underline{01}$ 01
10.23 v 1 d 10.33

I 43~~74~~51, Sept. 25, 1891
9.44 a 1 N $\underline{9.5}$

I 2136, Oct. 31, 1890
Reg. not on plate

Extreme edge I 19530; Nov 9, 1897
Var. seen - Comparison impossible
v = .1 c = 1 f = .1 g ns. Too near edge

I 4350, Sept. 25, 1891
Reg. not on plate

I 2690, Dec. 3, 1890
Reg. not on plate

I 2827, Jan. 15, 1891
10.63 l 1 N $\underline{10.7}$

I 4304, Sept. 20, 1891
Reg. not on plate

I 28358, Jan. 27, 1902
10.95 g 2 v 11.15 11.10 = 11.12 03 $\underline{02}$
11.10 v 1 h 11.20

I 3012, Feb. 6, 1891
Too poor

November 11, 1903

"11, 1903" Cont.

I 4303, Sept. 20, 1891
Too poor

I 3251, March 7, 1891
Reg. not on plate

I 29678, Dec. 18, 1902
12.22 m 3 v 12.5$\overset{2}{3}$ 12.59 = 12.56 $\overset{04}{\underline{03}}$ 03
v 0 0 12.59
p ns.

I 1873, Sept. 25, 1890
10.33 d 3 v 10.63 10.63 10.55 = 10.60 03 03 $\underline{05}$
v 0 l 10.63
10.55 v 2 f 10.75

I 4230, Sept. 14, 1891
Reg. not on plate

I 91, Nov. 6, 1899
Trails

I 4958, Dec. 3, 1891
9.44 a 3 N $\underline{9.7}$

I 4216, Sept. 11, 1891
10.33 d 1 N $\underline{10.4}$

I 28028, Dec. 1, 1901 Spectrum plate
9.44 a 3 N $\underline{9.7}$

November 11, 1903

"11, 1903" Cont.

Extreme edge of plate — I 29597, Dec. 1, 1902
11.92 m 1 N 12.0

Extreme edge — I 29617, Dec. 5, 1902
11.92 m 2 v 12.12
n n.s.

Edge of plate — I 4399, Sept. 30, 1891
9.44 a 3 N 9.7

Extreme edge — I 4400, Sept. 30, 1891
9.44 a 3 N 9.7

Edge of plate — I 3226, March 2, 1891
10.75 f 1 N 10.8

Extreme edge of plate — I 4631, Oct. 28, 1891
10.09 b 2 N 10.2

Extreme edge. Obs. uncertain. Images poor — I 4890, Nov. 30, 1891
10.63 e 1 v 10.73 $^{10.65}$ = 10.69 ~~05 005~~ 04 04
10.65 v 1 f 10.75

I 3249 March 6, 1891
Too poor

Uncertain. Images very faint. Focus of v diff. from other two. — I 11668, Oct. 16, 1894
11.42 k 2 v 11.62 11.57 = 11.60 02 03
11.57 v 1 l 11.67

November 11, 1903

"11, 1903" Cont.

I 27917 Spectrum plate - too poor

I 11577, Oct. 10, 1894
10.33 d 1 N 10.4

I 9739, Oct. 2, 1893
10.95 g 2 N 11.1

I 7999, Feb. 4, 1893 Spectrum plate
10.63 e 2 N 10.8

Edge of plate — I 8039, Feb. 12, 1893
10.33 d 2 N 10.5

Edge of plate — I 8028, Feb. 8, 1893 Spectrum plate
9.44 a 3 N 9.7

Edge of plate — I 5194, Dec. 17, 1891
10.33 d 2 v 10.53 10.63 10.55 = 10.57 04 06 02
v 0 e 10.63
10.55 v 2 f 10.75

I 5331, Jan. 5, 1892
Reg. not on plate

I 9887, Nov. 3, 1893 Spectrum plate
9.44 a 2 N 9.6

November 11, 1903

"11, 1903" Cont

Edge of plate √ I 8030, Feb. 8, 1893
10.33 d 1 N 10.4

Spectrum plate near edge √ I 8040 Feb. 12, 1893
9.44 a 2 N 9.6

Extreme edge. Images very poor & faint. Obs. uncertain √ I 8160, March 2, 1893
10.95 g 1 v 11.05 11.00 = 10.02 03 02
11.00 v 2 h 11.20

√ I 27979, Nov. 20, 1901
Edge of plate 10.33 d 2 v 10.53 10.53 = 10.53 00 00
10.53 v 1 e 10.63
Images of d and e imperfect

Edge of plate √ I 24696, March 7, 1900
11.92 m 1 N 12.0

Edge of plate √ I 21644, Nov. 3, 1898
12.22 n 1 N 12.3

√ I 5137 Dec. 13, 1891
10.11 c 2 v 10.32 10.33 10.33 = 10.33 01 00 00
v 0 d 10.33
10.33 v 3 e 10.63

I 21715, Nov. 16, 1898
Reg not on plate

November 11, 1903

"11, 1903" Cont.

√ I 10135, Dec. 7, 1893
Spectrum plate - too poor

Near edge √ I 24604, Feb. 15, 1900
11.67 l 1 v 11.77 11.82 = 11.80 03 02
11.82 v 4 n 12.22
Image of m not comparable

√ I 7901, Jan. 17, 1893 Spectrum plate
10.11 c 1 N 10.2

√ I 10316, Dec. 27, 1893
Spectrum plate - too faint

√ I 21755, Nov. 23, 1898
11.92 m 2 N 12.1

Edge of plate √ I 7956 Jan. 25, 1893
Spectrum plate - too poor

√ I 8078, Feb. 24, 1893
9.44 a 2 N 9.6

√ I 9741, Oct. 21, 1893.
Too poor

√ I 21833, Nov. 29, 1898
Too near edge

November 11, 1903

"11, "1903" Cont.

Edge of plate √ I 23954, Nov. 1, 1899
10.63 e 1 N 10.7

Extreme edge √ I 21738, Nov. 21, 1898
Companion 11.92 m 3 v 12.22 12.22 = 12.22 00 00
difficult v 0 n 12.22
o. n. s.

√ I 10108, Dec. 2, 1893
Spectrum plate - too poor

√ I 22250, Jan. 27, 1899
10.95 g 2 v 11.15 - 11.10 = 11.12 03 02
11.10 v 1 h 11.20

Uncertain √ I 7626, Dec. 5, 1892
Images very 11.67 l 3 v 11.97 11.92 = 11.94 03 02
poor. ? v 0 m 11.92
Near edge of plate n ns.

Extreme edge √ I 21850 Dec. 1, 1898
10.75 f 3 N 11.0
g, h, k off edge of plate

√ I 9981 Nov. 22, 1893
Too poor.

Extreme edge √ I 9289, Aug. 22, 1893
10.95 g 2 N 11.1

November 11, 1903

"11, 1903" Cont.

√ I 265, Dec. 7, 1889
10.33 d 2 v 10.53 - 10.53 = 10.53 00 00
10.53 v 1 e 10.63

√ I 30992, Oct. 14, 1903
Spectrum plate - too poor

√ I 2619, Dec. 28, 1890
12.22
~~11.92~~ n 1 N ~~12.0~~ 12.3

√ I 30019, Feb. 19, 1903
10.63 e 2 v 10.83 10.75 10.65 = 10.74 09 01 09
v 0 f 10.75
10.65 v 3 g 10.95

√ I 30905, Sept. 18, 1903
10.75 f 1 N 10.8

√ I 15786, Aug. 27, 1896
9.44 a 7 v 10.14 9.99 = 10.06 08 07
9.99 v 1 b 10.09

√ I 15836, Aug. 30, 1896
Too poor

Edge of √ I 19425, Nov. 3, 1897
plate 10.33 d 3 v 10.63 10.63 10.55 = 10.60 03 03 05
v 0 e 10.63
10.55 v 2 f 10.75

November 11, 1903

"11, 1903" Cont.

Extreme edge Images very poor and faint √ I 16053, Sept. 28, 1896
10.75 f 1 v 10.85 10.75 = 10.80 05 05
10.75 v 2 g 10.95

√ I 5000, Dec. 8, 1891
10.33 d 3 v 10.63 10.53 = 10.58 05 05
10.53 v 1 e 10.63

Images very faint √ I 9392, Sept. 4, 1893
11.92 m 3 v 12.22 12.22, 12.19 = 12.21 01 01 02
v 0 n 12.22
12.19 v 4 0 12.59

√ AC 1053, Dec. 14, 1900
Trails

√ AC 703, Feb. 1, 1900
10.95 g 3 v 11.25 11.10 = 11.18 07 08
11.10 v 1 h 11.20

Images faint √ AC 950, Aug. 1, 1900
10.11 c 2 v 10.33 10.23 = 10.27 04 04
10.23 v 1 d 10.33

√ AC 1852, Oct. 8, 1901
10.33 d 1 N 10.4

√ AC 698, Jan 30, 1900
10.75 f 2 N 10.9

November 11, 1903

"11, 1903" Cont.

√ AC 1792, Sept. 26, 1901
9.44 a 1 N 9.5

√ AC 1205, Feb. 3, 1901
Too poor

√ AC 3087, Dec. 20, 1902
10.33 d 2 N 10.5

√ AC 673, Jan. 10, 1900
10.33 d 2 N 10.5

Images faint √ AC 1168, Jan. 22, 1901
10.95 g 4 v 11.35
L and k not comparable

√ AC 3084, Dec. 19, 1902
11.42 k 1 N 11.5

√ AC 1727, Sept. 7, 1901
9.44 a 1 N ~~a~~ 9.5

√ AC 1690, Aug. 28, 1901
9.44 a 1 N 9.5

√ AC 638, Dec. 30, 1899
10.09 b 1 v 10.19 10.01 = 10.10 09 09
10.01 v 1 c 10.11

November 11, 1903

" 11, 1903" Cont.

√ AC 511, Nov. 9, 1899
10.63 l 2 N 10.8

AC 2965, Nov. 1, 1902
Trails –

√ AC 12 ~~1~~22, Feb. 8, 1901
10.75 f 1 N 10.8

√ AC 1130, Jan. 5, 1901
10.63 l 2 N 10.8

√ AC 506, Nov. 7, 1899
10.63 l 1 N 10.8

√ AC 2948, Oct. 29, 1902
11.42 k 1 N 11.5

√ AC 1181, Jan. 29, 1901
10.95 g 1 N 11.0

Images extremely faint Comp. doubtful.

√ AC 505, Nov. 7, 1899
10.33 d 3 v 10.63 10.63 10.55 = 10.60 03 03 05
v 0 l 10.63

√ 10.55 v 2 f 10.75

Images very faint.

AC 2828, Sept 10, 1902
v 0 d ? 10.33
l n.s.
Comp. with b & c impossible

November 11, 1903

" 11, 1903 Cont.

√ AC 1154, Jan. 18, 1901
? 11.92 m 2 v 12.12 12.12 = 12.12 00 00
12.12 v 1 n 12.22
Very uncertain. Ident. of v doubtful

Faint and uncertain

√ AC 3086, Dec. 20, 1902
10.75 f 1 v 10.85
g n.s.

√ AC 493, Oct. 24, 1899
Too poor

√ AC 2752, Aug. 14, 1902
10.11 c 1 v 10.21 10.23 = 10.22 01 01
10.23 v 1 d 10.33

√ AC 2318, Feb. 11, 1902
11.20 k 3 v 11.50 11.42 = 11.46 04 04
v 0 k 11.42
l n.s.

√ AC 482, Oct. 16, 1899
10.09 b 1 N 11. ~~10.1~~ 10.1

The var. may possibly be present, but must be fainter than g

√ AC 157, Jan. 17, 1899
10.95 g 1 N ? 11.0

November 11, 1903

"11, 1903" Cont.

✓
AC 2795
Trails - Too poor

✓ AC 3079, Dec. 18, 1902
11.92 m 1 N 12.0

✓
AC 134, Dec. 19, 1898
10.11 c 1 N 10.2

✓ AC 69, Oct. 20, 1898
Too poor

✓ AC 2936, Oct. 25, 1902
11.42 k 2 A 11.6

✓
AC 2741, Aug. 12, 1902
9.44 a 6 v 10.04 9.99 = 10.02 02 03
9.99 v 1 b 10.09

AC 2260, Feb. 3, 1902
does not cover reg.

✓ AC 3943, Sept 15, 1903
10.09 b 1 N 10.1

✓ AC 48, Sept. 28, 1898
9.44 a 1 N 9.5

✓ AC 2929, Oct. 23, 1902
10.75 f 2 N 10.9

November 11, 190~~2~~3

"11, 1903" Cont.

Images faint

✓ AC 2711, July 30, 1902
10.11 c 2 v 10.31 10.23 = 10.27 04 04
10.23 v 1 d 10.33

✓ AC 2178, Jan. 12, 1902
10.63 e 2 v 10.83 10.65 = 10.74 09 09
10.65 v 1 f 10.75

✓ AC 2342, Feb. 19, 1902
10.75 f 1 N 10.8

✓ AC 2876, Oct 8, 1902

Images clear

10.95 g 2 v 11.15
h n.s.

✓ AC 3310, Feb. 18, 1903
10.75 f 1 v? 10.85
g n.s.
Ident. of v not certain

✓ AC 2280, Feb. 6, 1902
10.95 g 1 N 11.0

✓ AC 2173, Jan. 9, 1902
10.33 d 3 v 10.63 10.63 10.55 = 10.60 03 03 05
v 0 e 10.63
10.55 v 2 f 10.75

November 11, 1903

"11, 1903" Continued

√ AC 3239, Feb. 3, 1903
10.63 l 1 v 10.73
f n.s.

√ AC 2225, Jan 23, 1902
Images very poor Scratch on plate near var.
2 10.33 d 1 v 10.43 10.53 = 10.$\overset{4}{\cancel{5}}$8 ~~05 05~~ 05 . 05
10.53 v 1 l 10.63

√ AC 2942, Oct. 28, 1902
v on the verge of invisibility
11.20 L 1 v ? 11.30
k n.s.

√ AC 2194, Jan. 16, 1902
9.44 a 1 N 9.5

√ AC 2809, Sept. 2, 1902
Isochromatic
Too poor

√ AC 3156, Jan. 10, 1903
9.44 a 1 N 9.5

√ AC 2134, Jan. 1, 1902
10.09 b 1 N 10.1

√ AC 3136, Jan. 1, 1903
11.67 l, N 11.7

√ AC 2073, Dec. 12, 1901
10.09 b 1 v 10.19 10.11 10.13 = 10.14 05 03 01
r o c 10.11
10.13 v 2 d 10.33

November 11, 1903

"11, 1903" Continued

√ AC 2162, Jan. 5, 1902
10.33 d 1 v ? 10.43 10.43 = 1043 00 00
10.43 v 2 l 10.63
Image of v diffuse – Comparison difficult

√ AC 4144, Oct. 31, 1903
10.63 l 2 N 10.8

√ AC 2045, Dec. 4, 1901
10.11 C 1 v 10.21 10.23 = 10.22 01 01
10.23 v 1 d 10.33

√ AC 1977, Nov. 10, 1901
10.63 l 2 v 10.83 10.65 = 10.74 09 09
10.65 v 1 f 10.75

AM 243 Oct. 25, 1899
does not cover Reg.

√ AM 604, Aug. 30, 1900
10.09 b, N 10.1

√ AM 595, Aug. 29, 1900
Isochromatic
9.44 a 2 N 9.6

√ AM 554, July 24, 1900
9.44 a, N 9.5

√ AC 1757, Sept. 20, 1901
10.11 C 1 N 10.2

"11, 1903 Continued

✓ AC 450 Sept. 18, 1899
Too poor

✓ AC 2109, Dec. 27, 1901
10.63 e 1 r 10.73
f n.s.

✓ AC 3128, Dec. 31, 1902
11.67 l 1 N 11.7

✓ AC 1884, Oct. 19, 1901
10.75 f 1 N 10.8

✓ AC 1672, Aug. 21, 1901
9.44 a 1 N 9.5

✓ AC 1256, Feb. 18, 1901
10.75 f 1 r 10.85 10.85 = 10.85 00 00
10.85 r 1 g 10.95

✓ AC 2891, Oct. 10, 1902 ?
10.95 g 2 r 11.15
h n.s.

✓ AC 3052, Dec. 6, 1902
11.20 h 1 N 11.3

✓ AC 1739, Sept. 12, 1901
9.44 a 1 N 9.5

"11, 1903" Continued

✓ AC 982, Sept. 2, 1900
Too poor

✓ AC 49, taken Sept. 29, 1898
Too poor

✓ AC 1796, Sept. 24, 1901
10.95 g 1 N 11.0

✓ AC 3160, Jan. 12, 1903
10.11 c 1 N 10.2

✓ AC 1956, Nov. 4, 1901
10.33 d 4 r 10.73 10.63 = 10.68 05 05
r 0 e 10.63
f n.s.

✓ AC 120, Dec. 15, 1898
Limits too poor

✓ AC 981, Sept. 2, 1901
9.44 a 1 N 9.5

✓ AC 3205, Jan. 22, 1903
10.95 g 2 N 11.1

✓ AC 77, Oct. 25, 1898
Too poor

"11, 1903" Continued

✓ AC 3180, Jan. 17, 1903
11.20 h 1 N 11.3

✓ AC 984, Sept. 3, 1900
10.11 c 1 N 10.2

✓ AC 92, Oct. 31, 1898
9.44 a 1 N 9.5

✓ AC 1802, Sept. 28, 1901
Too poor

✓ AC 990, Sept. 4, 1900
10.09 b 1 V 10.19 9.91 = 10.05 14 14
9.91 V 2 c 10.11

✓ AC 1968, Nov. 7, 1901
10.33 d 1 N 10.4

✓ AC 3770, Aug. 31, 1903
Too poor

✓ AC 3265, Feb. 9, 1903
9.44 a 1 N 9.5

✓ AC 124, Dec. 16, 1898
11.67 l 1 N 11.7

✓ AC 1825, Oct. 4, 1901
10.75 f 2 N 10.9

11, 1903 Continued

✓ AC 3846, Aug. 18, 1903
Too poor

✓ AC 991, Sept. 4, 1900
10.09 b 1 N ? 10.1
I suspect the presence of the var. but cannot certainly tell that it is not a defect in film

✓ AC 3318, Feb. 19, 1903
Trails. useless

Images very faint ✓ AC 2009, Nov. 27, 1901
10.33 d 3 V 10.63 10.53 = 10.58 05 05
10.53 V 1 e 10.63

✓ AC 169, Jan. 20, 1899
10.11 c 1 N 10.2

November 12, 1903

"11,1903" Continued

2nd measure. AC 169, Jan. 20, 1899
10.11 c 1 N 10.2

✓ AC 992, Sept. 4, 1900
9.44 a 3 N 9.7

✓ AC 187, Feb. 2, 1899
Trail, too poor

✓ AC 3976, Sept. 23, 1903
Too poor

✓ AC 2039, Dec. 2, 1901
10.33 d 1 v 10.43 10.53 = 10.48 05 05
10.53 v 1 e 10.63

Image very faint ✓ AC 931, July 18, 1900
9.44 a 5 v 9.94 9.89 = 9.92 02 03
9.89 v 2 f 10.09

✓ AC 3934, Sept. 13, 1903
10.63 e 1 N 10.7

✓ AC 1006, Sept. 19, 1900
9.44 a 1 N 9.5

✓ AC 420, Sept. 5, 1899
9.44 a 2 N 9.6

November 12, 1903

"11,1903" Continued

✓ AC 938, July 27, 1900
9.44 a 2 N 9.6

✓ AC 556, Nov. 25, 1899
10.63 e 3 v ? 10.93
f n.s.

Ident. of v uncertain. It is very faint and although it occupies the position of var. may possibly be a defect on film.

✓ AC 3998, Sept. 26, 1903
9.44 a 1 N 9.5

✓ AC 1002, Sept. 18, 1900
10.63 e 2 v 10.83 10.65 = 10.74 09 09
10.65 v 1 f 10.75

✓ AM 1586, Sept. 29, 1902
10.09 b 1 N 10.1

✓ AC 1126, Jan. 3, 1901
10.11 c 1 N 10.2

✓ AC 4135, Oct. 30, 1903
10.33 d 2 v 10.53 10.43 = 10.48 05 05
10.43 v 2 e 10.63

Clear plate ✓ AC 1015, Sept. 24, 1900
10.33 d 3 v 10.63 10.63 10.65 = 10.64 01 01 01
v 0 e 10.63
10.65 v 1 f 10.75

November 12, 1903

"11, 1903" Continued

√
Clear plate AC 655, Jan. 4, 1900
10.33 d 1 v 10.43 10.33 = 10.38 05 05
10.33 v 3 l 10.63

√
AC 1134, Jan. 7, 1901
10.09 f 1 N 10.1

√ AC 1007, Sept. 19, 1900
Trails. too poor

√ AC 684, Jan. 22, 1900
10.33 d 2 v 10.53 10.53 = 10.53 00 00
10.53 v 1 l 10.63

√ AC 985, Sept. 3, 1900.
too poor

√ AC 983, Sept. 3, 1900
too poor

√
AC 2957, Oct. 31, 1902
11.20 h 2 N 11.4

√ A 1178 Nov. 2, 1894
useless

√ A 1052, Oct. 11, 1894
11.42 k 2 v 11.62 11.57 = 11.60 02 03
11.57 v 1 l 11.67

November 13, 1903

"11, 1903" Cont.

√
Extreme edge, Images very poor
I 22343 Feb. 20, 1899
10.95 g 1 v 11.05 11.00 = 11.02 03 02
11.00 v 2 h 11.20

√
I 24424, Jan. 10, 1900
10.33 d 3 v 10.63 10.53 = 10.58 05 05
10.53 v 1 l 10.63

November 14, 1903

Crespi's Var. "14, 1903" $6^h 52^m.5$ +30° 45′ (1855

Magnitudes of Comparison Stars

Plate I 20431

a	7.6
b	8.1
c	8.3
d	8.8
e	9.1
f	9.4
g	9.6
h	9.9
k	10.2
l	
Var	9.3

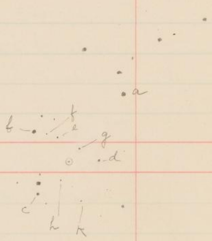


Plate I 17612

a	$8.\overset{2}{\cancel{4}}$
b	8.6
c	8.8
d	9.0
e	9.3
f	9.7
g	9.9
h	10.3
k	n.s.
Var	9.2

Focus of this plate poor

November 14, 1903

"14, 1903" Continued

Plate I 22013

a	8.1
b	8.5
c	$8.\overset{7}{\cancel{8}}$
d	8.9
e	9.2
f	9.6
g	9.9
h	10.2
k	10.5
Var	9.8

Plate I 26785

a	7.1
b	7.6
c	$7.\overset{8}{\cancel{6}}$
d	8.1
e	8.6
f	9.0
g	9.4
h	9.9
k	10.4
Var	8.7

November 14, 1903

Estimates of the brightness of "14,1903" Ceraski

Plate I 20431, March 9, 1898
10.93 e 4 v 11.33 11.31 11.29 = 11.31 02, 00, 02.
v 0 f 11.31
11.29 v 3 g 11.59

I 26785, March 12, 1901
10.93 e 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

I 22013 Dec. 23, 1898
11.31 f 3 v 11.61 11.49 = 11.55 06 06
11.49 v 1 g 11.59

I 17612, March 16, 1897
10.93 e f 1 v 11.03 11.01 = 11.02 01 01
11.01 v 3 g f 11.31

I 14723, March 27, 1896
10.58 d 2 v 10.~~68~~ 78 10.63 = 10.~~66~~ 70 ~~02~~ ~~03~~ 08 07
10.63 v 3 e 10.93

I 12442, Feb. 23, 1895
10.93 e 3 v 11.23 11.21 = 11.22 01 01
11.21 v 1 f 11.31

I 10193, Dec. 17, 1893
10.28 c 1 v 10.38 10.28 = 10.33 05 05
10.28 v 3 d 10.58

November 14, 1903

"14, 1903" Continued

Edge of plate. Images very poor

I 16994, Jan. 6, 1897
10.58 d 4 v 10.98 10.93 11.11 = 11.01 03 08 10
v 0 e 10.93
11.11 v 2 f 11.31

I 22479, Feb. 25, 1899
10.28 c 2 v 10.48 10.38 = 10.43 05 05
10.38 v 2 d 10.58

I 10123, Dec. 4, 1893.
10.28 c 2 v 10.48 10.48 = 10.48 00 00
10.48 v 1 d 10.58

I 222, Dec. 3, 1889
10.93 e 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

I 5738, Feb. 18, 1892
11.31 f 1 v 11.41 11.39 = 11.40 01 01
11.39 v 2 g 11.59

I 30251, March 29, 1903
Spectrum plate – too faint

I 30257, March 31, 1903
Spectrum plate – too faint

I 30250, March 29, 1903
10.58 d 2 v 10.78 10.73 = 10.76 02 03
10.73 v 1 e 10.93

November 14, 1903

"14, 1903" Continued

~~Al 3429 March 14, 1903~~
~~Too faint~~

Extreme edge
Images poor

√ I 30266, April 1, 1903 Spectrum plate
10.58 d 2 v 10.78 10.73 = 10.76 .02 .03
10.73 v 2 ~~f 11.31~~ e 10.93

√ I 30252, March 29, 1903
Spectrum plate. too faint

√ I 30216, March 25, 1903
Too near edge

√ I 5647, Feb. 15, 1902
11.31 f 2 v 11.51 11.49 = 11.50 .01 .01
11.49 v 1 g 11.59

Extreme edge
Images very poor

√ I 14822 April 8, 1896
10.58 d 3 v 10.88 10.~~93~~83 = 10.~~96~~86 .02 .03
10.~~93~~83 v 1 e 10.93

√ I 8056, Feb. 15, 1893
10.28 c 1 v 10.38 10.28 = 10.33 .05 .05
10.28 v 3 d 10.58

√ I 553~~7~~9, Feb. 5, 1892
11.31 f 3 v 11.61, 11.59, 11.67 = 11.62 .01 .03 .05
v 0 g 11.59
11.67 v 3 h 11.97

Nov. 14, 1903

"14, 1903" Cont.

~~I 5539, Feb. 5, 1892~~

√ I 10290, Dec. 25, 1893
10.08 b 2 v 10.28 10.28 10.18 = 10.25 .03 .03 .07
v 0 c 10.28
10.18 v 4 d 10.58

√ I 9792, Oct. 25, 1893
10.58 d 1 v 10.68 10.63 = 10.66 .02 .03
10.63 v 3 e 10.93

√ I 8145, Feb. 28, 1903
10.28 c 2 v 10.48 10.38 = 10.43 .05 .05
10.38 v 2 d 10.58

Class S

√ I 29794, Jan. 1, 1903
10.58 d 3 v 10.88
e + f not separated

Edge of plate
Images poor
and faint

√ I 20353, March 5, 1898
10.93 e 1 v 11.03 11.11 = 11.07 .04 .04
11.11 v 2 f 11.31

√ I 12~~75~~540, March 19, 1895
Missing

√ I 13921, Nov. 28, 1895
10.93 e 1 N 11.0

√ I 14232, Jan. 3, 1896
10.58 d 2 v 10.78 10.73 = 10.76 .02 .03
10.73 v 2 e 10.93

November 14, 1903

"14, 1903" Continued

√ I 24025, Nov. 10, 1899
Edge of plate 10.58 d 4 v 10.98 10.93 = 10.96 02 03
v 0 l 10.93
f n.s.

√ I 20354, March 5, 1898
11.59 g 1 v 11.6
h n.s.

√ I 14536, Feb. 25, 1896
Useless

√ I 17105, Jan. 18, 1897
Too poor. Corner of plate

√ I 17615, March 16, 1897
Edge of plate Images poor 10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 l 10.93

√ I 20043, Jan. 16, 1898
Very uncertain. Corner of Spectrum plate Images faint 10.93 l 2 v 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31

√ I 24029, Nov. 12, 1899
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.21 v 2 f 11.31
~~I 20399, March 8, 1898~~
~~Reg. not on plate~~

November 14, 1903

"14, 1903" Continued

√ I 22027 Dec. 24, 1898
11.31 f 1 v 11.4

√ I 22404, Feb. 23, 1899
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

~~I 24033, Nov. 12, 1899~~
~~Reg. not on plate~~

√ I 20400, March 8, 1898
Edge of plate. Images poor 11.59 g 1 v 11.6
h n.s.

√ I 21823 Nov. 28, 1898
Extreme edge of plate. Obs. very uncertain 11.31 f 2 v? 11.51
g n.s.

√ I 26116, Nov. 16, 1900
Spectrum plate - too poor

√ I 27884, Oct. 29, 1901
10.93 l 3 v 11.23 11.19 = 11.21 02 02
11.19 v 4 g 11.59
Image of f imperfect

√ I 28095, Dec. 20, 1901
10.93 l 1 v 11.03 11.01 = 11.02 01 01
11.01 v 3 f 11.31

"14, 1903" Cont.

√
Edge of plate
Images very poor
I 26202, Dec. 9, 1900
10.58 d 3 v ~~10.88~~ 10.83 = 10.86 02 03
10.83 v 1 e 10.93

√
Spectrum plate
Edge
I 28562, March 6, 1902
10.58 d, 1 v 10.6

Class S
I 29637, Dec. 7, 1902
10.58 d, 1 v 10.6

√
I 27298, Aug. 8, 1901
Too poor

√
I 24144, Nov. 25, 1899
10.58 d 3 v ~~10.88~~ 10.83 = 10.86 02 03
10.83 v 1 e 10.93

√
I 26220, Dec. 11, 1900
10.58 d 4 v 10.98 10.93 11.01 = 10.97 01 04 04
v 0 e 10.93
11.01 v 3 f 11.31

√
Edge of plate
Images very poor
Obs. uncertain
I 27328, Aug. 16, 1901
10.58 d 3 v ~~10.88~~ 10.93 = 10.90 02 03
v 0 e 10.93
f ns,

√
I 25776, Sept. 12, 1900
Too poor

"14, 1903" Cont.

~~I 26207, Dec. 9, 1900~~
~~Reg. not on plate~~

√
I 27604, Sept. 26, 1901
10.58 d $\overset{2}{3}$ v 10.78 10.83 = 10.80 02 03
10.83 v 1 e 10.93
A scratch crosses v and makes comp. difficult

√
I 24221, Dec. 12, 1899
10.28 c 4 v 10.68 10.58 10.63 = 10.63 05 05 00
v 0 d 10.58
10.63 v 3 e 10.93

√
I 727, March 3, 1890
10.58 d 2 v 10.78 10.73 = 10.76 02 03
10.73 v 2 e 10.93

√
I 24908, March 21, 1900
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

~~I 894, March 27, 1890~~
~~Reg. not on plate~~

√
I 2930 Jan. 26, 1891
too poor

√
I 7915, Jan. 19, 1893
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

November 14, 1903

"14, 1903" Cont.

✓ I 5052, Dec. 10, 1891
10.58 d 1 N 10.6

Images poor near edge

✓ I 3141, Feb. 22, 1891
10.93 e 3 v 11.23 11.31 = 11.27 .04 .04
v 0 f 11.31
g ns.

✓ I 4800, Nov. 19, 1891
Too poor

✓ I 5053, Dec. 10, 1891
10.93 e 1 N 11.0

✓ I 5678, Feb. 16, 1892
11.31 f 2 v 11.51 11.49 = 11.50 .01 .01
11.49 v 1 g 11.59

✓ I 5862, March 13, 1892
10.58 d 4 v 10.98 11.01 = 11.00 .02 .01
11.01 v 3 f 11.31
Image of e imperfect

Edge of plate, Image poor

✓ I 8010, Feb. 4, 1893
10.28 c 3 v 10.58 10.48 = 10.53 .05 .05
10.48 v 1 d 10.58

November 14, 1903

"14, 1903" Cont

Extreme edge

✓ I 30309, April 17, 1903
10.58 d 5 v 11.08
e, f too near edge

Spectrum

✓ I 30290, April 10, 1903
Spectrum - too poor.

✓ Apo I 30335 Apr. 19, 1903
Spectrum - too near edge

✓ I 30365, April 24, 1903
10.93 e 1 v 11.03 11.11 = 11.07 .04 .04
11.11 v 2 f 11.31

✓ I 30376, April 27, 1903
too poor

✓ I 30283 April 5, 1903
too poor

✓ I 30430, May 6, 1903
Too poor

✓ I 30289, April 10, 1903
11.31 f 1 N 11.4

✓ I 30445, May 9, 1903
Too poor

✓ I 17409, Feb. 4, 1897
Does not cover reg.

"14, 1903 Cont.

Extreme edge √ I 30264, April 1, 1903
10.58 d 3 v 10.83 10.83 = 10.83 .00 .00
10.83 v 1 e 10.93

Extreme edge
7 plate √ I 30320, April 18, 1903
10.58 d 4 v 10.98 10.93 11.01 = 10.97 .01 .04 .04
v 0 e 10.93
11.01 v 3 f 11.$\overset{3}{5}$1

~~I 30243, March 28, 1903~~
Reg not on plate

Extreme edge
Images very faint
See page 214 √ I 30456, May 11, 1903
11.$\overset{3}{5}$1 f 3 v ? 11.61 11.59 = 11.60 .01 .01
v 0 g ? 11.59
h n.s.

Extreme edge √ I 30249 March 29, 1903
10.58 d 3 v 10.88 10.83 = 10.86 .02 .03
10.83 v 1 e 10.93

~~I 7183, March 6, 1893~~
√ I 30256, March 31, 1903
Too near edge

√ I 30593, May 30, 1903
Too poor

√ I 30578, May 26, 1903
10.93 e 1 N 11.0

"14, 1903" Cont.

√ I 30572, May 25, 1903
Too poor

√ I 30571, May 25, 1903
Too poor

√ I 30555, May 23, 1903
Too near edge

√ I 20318, March 3, 1898
Too poor

√ I 30544, May 22, 1903
Too poor

√ I 30352, April 21, 1902
Spectrum plate - too faint

√ I 30351, April 21, 1903
10.58 ~~d 4 v~~ d 4 v 10.98 10.93 11.01 = 10.97 .01 .04 .04
v 0 e 10.93
11.01 v 3 f 11.31

√ I 30345, April 20, 1903 Spectrum
10.58 d 3 v 10.88
e n.s.

√ I 20313, March 3, 1898
Too poor

November 14, 1903

"14, 1903" Cont.

✓ I 20314, March 3, 1898
Too poor

✓ I 30344, April 20, 1903
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

Extreme edge
Images very
faint & poor

✓ I 30421, May 2, 1903
10.58 d 4 v 10.98 10.93 11.01 = 10.97 01 04 04
v 0 e 10.93
11.01 v 3 f 11.31

Extreme edge
Images very
faint

✓ I 30255, March 31, 1903
10.~~9~~58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

✓ I 30452, May 10, 1903
Too poor

Edge of plate ✓ I 30477, May 12, 1903
10.58 d 2 N 10.7

Images poor,
Comp. difficult

✓ I 30254, March 29, 1903
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

Edge of plate ✓ I 30478, May 13, 1903
10.93 l 1 N 11.0

November 14, 1903

"14, 1903" Continued

✓ I 30294, April 11, 1903
Too poor

✓ I 30486, May 15, 1903
Too poor

✓ I 30518, May 20, 1903
10.28 C 1 N 10.3

Edge of
plate

✓ I 30383, April 28, 1903
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

Edge of
plate

✓ I 30403, April 30, 1903
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

✓ I 30253, March 29, 1903
Too poor

✓ I 30300, April 12, 1903
Too poor

Extreme
edge. Im-
ages very
poor.

✓ I 30410, May 1, 1903
10.93 l 1 N ÷ 11.0

✓ I 30377, April 27, 1903
Spectrum. Too near edge

"14, 1903" Cont

✓ I 30301, April 12, 1903
Spectrum too near edge

✓ I 30308, April 17, 1903
Too near edge

I 30265 April 1, 1903
Too poor

Edge of plate
Images very
poor

✓ I 30281 April 5, 1903
10.58 d 3 ✓ 10.88 10.83 = 10.86 02 03
10.83 ✓ 1 e 10.93

Edge of
plate

✓ I 30417, May 2, 1903
10.93 e 2 ✓ 11.03 11.21 = 11.12 09 09
11.21 ✓ 1 f 11.31

I

✓ I 30321, April 18, 1903
Spectrum - too near edge

✓ I 30282, April 5, 1903
Too poor

✓ I 30334, April 19, 1903
10.58 d 4 ✓ 10.98 10.93 11.01 = 10.97 01 04 04
✓ 0 e 10.93
11.01 ✓ 3 f 11.31

"14, 1903" Cont.

✓ I 30435, May 8, 1903
Too poor

✓ I 30078, Feb. 23, 1903
10.$\overset{2}{5}$8 c 1 ✓ 10.38 10.28 = 10.33 05 05
10.28 ✓ 3 d 10.58

✓ I 30444, May 9, 1903
Too poor

✓ I 30475, May 12, 1903
Too near edge. Comp. impossible

✓ I 30451, May 10, 1903
10.58 d 1 ✓ 10.6

Extreme
edge. Image
Very poor.
Uncertain

✓ I 30434, May 8, 1903
10.58 d 2 ✓ e, 10.78
E. n. s.

✓ AC 3321, Feb. 19, 1903
10.08 b 2 ✓ 10.28 10.28 10.18 = 10.25 03 03 07
✓ 0 c 10.28
10.18 ✓ 4 d 10.58

✓ AC 449, Sept. 17, 1899
Too poor

November 16, 1903

"14, 1903" Continued

Images faint ✓ AC 2939, Oct. 25, 1902
10.58 a 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

✓ AC 4006, Sept. 20, 1903
10.58 d 3 v, 10.88
e ns,

Images faint ✓ AC 2863, Oct. 6, 1902
10.93 e 1 N 11.0

✓ AC 2480, April 17, 1902
10.28 c 1 N 10.3

✓ AC 2430, March 25, 1902
10.58 d 1 v 10.68
e n.s.

✓ AC 3993, Sept. 25, 1903
Too poor

Very uncertain ✓ AC 3565, April 29, 1903
Images scarcely ? 10.08 b 1 v 10.18 10.28 = 10.23 05 05
visible v 0 c 10.28
See page 214 d n.s.

✓ AC 2427, March 24, 1902
Too poor

November 16, 1903

"14, 1903" Continued

✓ AC 3497, April 12, 1903
Too faint

~~AC 3413, March 12, 1903~~
~~Too faint~~

✓ AC 3338, Feb. 22, 1903
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

✓ AC 3286, Feb. 12, 1903
10.08 f 1 N 10.1

✓ AC 1145, Jan. 13, 1901
Too poor

✓ AC 113, Dec. 8, 1898
Too poor

✓ AC 86, Oct. 30, 1898
Too faint

Near edge ✓ AC 3233, Jan. 31, 1903
Images very 10.28 c 3 v 10.58 10.48 10.53 05 05
faint + poor 10.48 v 1 d 10.58
Obs. uncertain

✓ AC 3002, Nov. 19, 1902
10.08 b 2 N 10.2

November 16, 1903

"14, 1903" Continued

✓ AC 222 Feb. 24, 1899
10.08 ^{b} c 1 N 10.1

✓ AC 4019, Sept. 30, 1903
10.08 b 2 N 10.2

Image of v in sharper focus than others

✓ AC 1103, Dec. 28, 1900
10.58 d 4 v 10.98 10.93 11.01 = 10.97 01 04 04
v 0 e 10.93
11.01 v 3 f 11.31

✓ AC 1083, Dec. 22, 1900
10.93 e 1 v 11.03 11.19 = 11.11 08 08
11.19 v 4 g 11.59
Image of f too poor for Comparison

✓ AC 687, Jan. 22, 1900
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

Images extremely faint

AC 3202, Jan. 21, 1903
10.08 ~~b 5 v~~ Strong star obs. see page 109
~~v o e 10.~~
~~f n.s.~~
Image of c not separated from bright star north of it

✓ AC 3130 Dec. 31, 1902
10.58 d 4 v 10.98 10.83 = 10.890 18 03
10.83 v 1 e 10.93

November 16, 1903

"14, 1903" Cont.

✓ AC 3071, Dec. 9, 1902
10.58 d 4 v 10.98 10.93 = 10.96 02 03
v o e 10.93
f n.s.

✓ AC 3371, Feb 28, 1903
10.08 b 1 N 10.1

✓ AC 590, Dec. 13, 1899
10.28 c 1 N 10.3

✓ AC 2330, Feb. 14, 1902
10.93 e 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

✓ AC 606, Dec. 16, 1899
Too poor

✓ AC 3432, March 15, 1903
10.08 b 3 v 10.38 10.38 = 10.38 00 00
10.38 v 2 d 10.58
c not separated from adj. star

✓ AC 3527, April 20, 1903
10.58 d 1 N 10.6

✓ AC 200 Feb. 14, 1899
10.28 c 3 v 10.58 10.58 10.53 = 10.56 02, 02, 03
v o d 10.58
10.53 v 4 e 10.93

"14, 1903" Cont.

✓ AC 2323, Feb. 12, 1902
10.58 d 4 v 10.98 10.93 = 10.96 02 03
10.93 v 0 l 10.93
f n.o.

✓ AC 2275, Feb. 5, 1902
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

✓ AC 1146, Jan. 13, 1901
Trails

Trails. ✓ AC 114, Dec. 8, 1898
10.08 b 1 v 10.1

✓ AC 614, Dec. 20, 1899
Trails - too poor

Edge of plate ✓ AC 519, Nov. 12, 1899
& very faint 10.58 d 3 v 10.88
l n.s.

✓ AC 489, Oct. 21, 1899
10.08 b 2 v 10.2

✓ AC 1227, Feb. 8, 1901
10.58 d 2 v 10.78 10.73 = 10.76 02 03
10.73 v 2 l 10.93

"14, 1903" Cont.

✓ AC 1867, Oct. 15, 1901
10.58 d 3 v 10.88
l n.s.

✓ AC 275, April 10, 1899
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 l 10.93

✓ AC 2415, March 15, 1902
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 l 10.93

Images very faint ✓ AC 1183, Jan. 29, 1901
10.93 l 2 v 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31

✓ AC 1051, Dec. 13, 1900
10.58 d 2 v 10.78 10.73 = 10.76 02 03
10.73 v 2 l 10.93

✓ AC 634, Dec. 29, 1899
10.58 d 1 v 10.6

✓ AC 2373, March 1, 1902
10.08 b 2 v 10.2

✓ AC 607, Dec. 16, 1899
Too poor

November 16, 1903

R "14,1903" Cont.

✓ AC 1839, Oct. 6, 1901
11.31 f 1v 11.41
g n.s.

✓ AC 257, March 24, 1899
10.28 c 1v 10.38 10.28 = 10.33 05 05
10.28 v 3d 10.58

✓ AC 2189, Jan. 15, 1902
10.28 c 4v 10.68 10.58 = 10.63 05 05
v 0 d 10.58
e n.s.

✓ AC 2027, Nov. 30, 1901
10.93 d 1v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

✓ AC 1406, April 13, 1901
Trails - too poor

Images very faint ✓ AC 1907, Oct. 25, 1901
10.58 d 2v 10.78 10.73 = 10.76 02 03
10.73 v 2 e 10.93

✓ AC 2158, Jan. 3, 1902
10.93 e 3v 11.23 11.31 11.39 = 11.31 08 00 08
v 0 f 11.31
11.39 v 2 g 11.59

November 16, 1903

"14,1903" Cont.

✓ AC 2040, Dec. 2, 1901
Too poor

✓ AC 1428, May 1, 1901
10.08 b 1N 10.1

✓ AC 1902, Oct. 24, 1901
Too poor

✓ AC 1375, March 25, 1901
Too poor

✓ AC 1263, Feb. 19, 1901
10.58 d 3v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

✓ AC 585, Dec. 12, 1899
10.08 b 1N 10.1

Images extremely faint ✓ AC 515, Nov. 10, 1899
10.93 e 1v 11.03
f n.s.

✓ AC 1358, March 19, 1901
10.93 e 1v 10.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

✓ AC 1262, Feb. 19, 1901
10.58 d 4v 10.98 10.93 = 10.96 02 03
v 0 e 10.93

~~March~~ Nov. 16, 1903

"14, 1903" Cont.

√ AC 3421, March 13, 1903
Too poor

√ AC 3053, Dec. 7, 1902
10.93 e 2 V 11.1

√ AC 1149, Jan. 16, 1901
10.93 e 1 V 11.0

√ AC 1060, Dec. 16, 1900
10.58 d 3 V 10.88 10.73 = 10.80 08 07
10.73 V 2 e 10.93

√ AC 3369, Feb. 28, 1903
10.28 c 1 V 10.3

√ AC 3226, Jan. 30, 1903
10.28 c 1 V 10.38
d n.s.

√ AC 302$\overset{3}{\cancel{2}}$, Nov. 28, 1902
10.93 e 1 V 11.03
an object in pos. of f appears to be a defect in film

√ AC 1042, Oct. 24, 1900
Too poor

√ AC 717, Feb. 18, 1900
10.58 d 1 V 10.6

November 16, 1903

"14, 1903" Cont.

√ AC 682, Jan. 21, 1900
10.58 d 4 V 10.98 10.83 = 10.90 08 07
10.83 V 1 e 10.93

√ AC 3328, Feb. 20, 1903
10.08 b 2 V 10.28 10.28 10.18 = 10.215 03 03 07
V 0 c 10.28
10.18 V 4 d 10.58

√ AC 3242, Feb. 3, 1903
Too poor

√ AC 660, Jan. 5, 1900
10.58 d 3 V 10.88 10.73 = 10.80 08 07
10.73 V 2 e 10.93

Focus of V very sharp

√ AC 2988, Nov. 9, 1902
10.28 c 4 V 10.68 10.48 = 10.$\overset{5}{\cancel{5}}$8 10 10
10.48 V 1 d 10.58

√ AC 2486, April 18, 1902
10.08 b 1 V 10.1

√ AC 2894, Oct. 10, 1902
10.58 d 1 V 10.6

√ AC 2434 March 26, 1902
10.93 e 3 V 11.23 11.31 = 11.27 04 04
V 0 f 11.31

November 1~~6~~7, 1903

"14, 1903" Cont.

✓ AC ~~4154~~ 2213, ~~Nov. 1, 1903~~ Jan. 19, 1902
10.08 b 2 N 10.2

✓ AC 3558, April 28, 1903
Trails - too poor

✓ AC 2179, Jan. 12, 1902
10.93 e 3 v 11.23 11.31 = 11.27 04 04
v 0 f 11.31
g n.s.

✓ AC 2089, Dec. 19, 1901
Trails

✓ AC 3552, April 27, 1903
10.28 c 1 N 10.3

✓ AC 3963, Sept. 21, 1903
10.28 c 1 N 10.3

✓ AC 3533, April 21, 1903
10.58 d 4 v 10.98 10.93 = 10.96 02 03
v 0 e 10.93
f n.s.

Images poor ✓ AC 2079, Dec. 15, 1901
10.93 e 4 v 11.33 11.39 = 11.36 03 03
11.39 v 2 g 11.59
f not distinct clearly separated from e

November 17, 1903

"14, 1903" Cont.

✓ AC 1938, Nov. 1, 1901
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

✓ AC 3470, April 1, 1903
Too poor

✓ AC 1896, Oct. 21, 1901
Too poor

✓ AC 1748, Sept. 15, 1901
Too poor

✓ AC 1442, May 6, 1901
Too poor

✓ AC 3427, March 14, 1903
10.08 b 1 N 10.1

✓ AC 3011, Nov. 22, 1902
10.28 c 2 v 10.48 10.48 = 10.48 00 00
10.48 v 1 d 10.58

Images poor ✓ AC 3244 Feb. 5, 1903
10.08 b 2 v 10.28 10.38 = 10.33 05 05
10.38 v 2 d 10.58
c not separated from adj. bright star

November 17, 1903

"14, 1903" Continued

✓ AC 128, Dec. 16, 1898
Images very poor
10.93 e 2 v 11.13
f n.s.

✓ AC 2324, Feb. 12, 1902
Images very poor
10.58 d 4 v 10.98 10.93 = 10.96 02 03
v 0 e 10.93
f n.s.

✓ AC 2263, Feb. 3, 1902
Trails - too poor

✓ AC 83, Oct 27, 1898
10.08 b 1 K 10.1

✓ AC 3398, March 6, 1903
Images poor
10.28 c 2 v 10.48 10.38 = 10.43 05 05
10.38 v 2 d 10.58

✓ AC 2252, Jan. 27, 1902
10.93 e 2 v 11.1
f not clearly separated from e. g n.s.

✓ AC 3663, May 22, 1903
Too poor

✓ AC 3590, May 6, 1903
Too poor

November 17, 1903

14, 1903 Cont.

✓ AC 4013, Sept. 29, 1903
Too poor

✓ AC 3096, Dec. 23, 1903
10.58 d 3 v 10.88 10.93 11.01 = 10.94 06 01 07
v 0 f e 10.93
11.01 v 3 f 11.31

✓ AC 1346, March 17, 1901.
Near centre of plate
10.28 c 2 K 10.4

✓ AC 2368, Feb. 27, 1902
11.31 f 1 v 11.41
g n.s.

✓ AC 528, Nov. 15, 1899
Too poor

✓ AC 3363, Feb 26, 1903
Images poor
10.28 c 1 v 10.38 10.38 = 10.38 00 00
10.38 v 2 d 10.58

✓ AC 239 March 10, 1899
Images poor
10.08 b 1 v 10.18 10.18 = 10.18 00 00
10.18 v 1 c 10.28

✓ AC 454 Sept. 28, 1899
Too poor

November 17, 1903

"14, 1903" Continued

✓ AC 199, Feb. 14, 1899
Trails

✓ AC 3422, March 13, 1903
Too poor

Images poor ✓ AC 3323, Feb. 19, 1903
10.08 b 2 v 10.28 10.28 10.28 00 00 00
v. 0 c 10.28
10.28 v 3 d 10.58

✓ AC 188, Feb. 2, 1899
Trails

✓ AC 535, Nov. 16, 1899
Too poor

✓ AC 3302, Feb. 14, 1903
10.08 b, N 10.1

✓ AC 140, Dec. 23, 1898
10.58 d 1 N 10.6

✓ AC 2374, March 1, 1902
10.58 d 2 v 10.78
l n. s.

Images poor ✓ AC 3201, Jan. 21, 1903
10.58 d 1 v 10.68 10.73 = 10.70 02 03
10.73 v 2 e 10.93

November 17, 1903

"14, 1903" Continued

✓ AC 3428, March 14, 1903
Too poor

✓ AC 2337, Feb. 15, 1902
10.93 l 1 v 11.03
f n. s.

Images poor ✓ AC 3200, Jan. 21, 1903
10.28 C $\overset{3}{3}$ v 10.58 10.48 = 10.53 .05 05
10.48 v 1 d 10.58

✓ AC 2294, Feb. 7, 1902
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

✓ AC 2893, Oct. 10, 1902
11.31 f 1 v 11.41 11.39 = 11.40 01 01
11.39 v 2 g 11.59

✓ AC 3164, Jan. 12, 1903
Too poor

✓ AC 2253, Jan. 27, 1902
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f ~~11~~ 11.31

✓ AC 2886, Oct. 9, 1902
10.93 l 1 v 11.03 11.01 = 11.02 01 01
11.01 v 3 f 11.31

November 17, 1903

14, 1903 Cont.

✓ AC 2436, March 26, 1902
10.93 l 2 N ~~11.~~ 11.18

✓ AC 2166, Jan. 5, 1902
10.93 l 2 v 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31

✓ AC 2386, March 4, 1902
10.93 l 2 v 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31

Images very poor
✓ AC 571, Dec. 6, 1899
10.93 l 1 v 11.03
f n.s.

Images poor
✓ AC 3206, Jan 22, 1903
10.58 d 3 v 10.88
e n.s.

Near centre
✓ AC 518, Nov. 12, 1899
10.93 l 1 v 11.03
f n.s.

Near centre of plate
✓ AC 1908, Oct. 25, 1901
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

November 17, 1903

"14, 1903" Cont.

✓ AC 605, Dec. 16, 1899
Too poor

✓ AC 644, Jan. 2, 1900 Erythrosin
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58

✓ AC 507, Nov. 7, 1899
Too poor

✓ AC 1846, Oct. 7, 1901
10.93 l 1 N 11.0

✓ AC 3378, March 1, 1903
A scratch covers image of Variable

✓ AC 443, Sept. 15, 1899
10.28 c 1 N 10.3

✓ AC 254, March 21, 1899
Too poor

✓ AC 1279, Feb. 22, 1901
Too poor

✓ AC 1082, Dec. 22, 1900
10.93 l 1 v 11.03 11.11 = 11.07 04 04
11.11 v 2 f 11.31

November 17, 1903

"14, 1903" Cont.

✓ AC 1432, May 3, 1901
10.58 d 1 v 10.6

✓ AC 220, Feb. 23, 1899
Too poor

Near center of plate
✓ AC 1801, Sept. 27, 1901
10.28 c 1 v 10.3

✓ AC 1427, April 29, 1901
Too poor

✓ AC 165, Jan. 18, 1899
10.58 d 3 v 10.88 10.83 = 10.86 .02 .03
10.83 v 1 e 10.93

✓ AC 1007, Sept. 19, 1900
Too poor

✓ AC 761, March 14, 1900
10.08 b 1 v 10.1

Images poor.
✓ AC 122, Dec. 15, 1898
10.93 e 2 v 11.13
f ns.

✓ AC 1424, April 28, 1901
Too poor

November 17, 1903

"14, 1903" Cont.

Near center of plate
✓ AC 1337, March 14, 1901
10.58 d 1 v 10.68 10.63 = 10.66 .02 .03
10.63 v 3 e 10.93

✓ AC 720, Feb. 18, 1900
10.93 e 3 v 11.23
f ns.

✓ AC 82, Oct. 27, 1898
Too poor

Near center of plate
✓ AC 2047, Dec. 4, 1901
10.93 e 2 v 11.13 11.11 = 11.12 .01 .01
11.11 v 2 f 11.31

On this plate e appears only a grade brighter than f.
✓ AC 1259, Feb. 18, 1901 Near center of plate
10.58 d 3 v 10.88 10.63 = 10.76 .12 .13
10.63 v 3 e 10.93

Near center of plate
✓ AC 663 Jan. 6, 1900
10.58 d 1 v 10.68 10.63 = 10.66 .02 .03
10.63 v 3 e 10.93
e normal

AC 4154, Nov. 1, 1903

November 17, 1903

14, 1903 Cont.

✓ AC 2004, Nov. 22, 1901
Near center of plate. Images poor — 10.93 l 1 v 11.03
f ns.
e normal

Center of plate ✓ AC 1320, March 6, 1901
10.93 e 2 v ~~10.7~~ 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31
e normal

✓ AC 1201, Feb. 27, 1901
Too poor

✓ AC 3469, April 1, 1903
10.58 a 2 v 10.78
e ns.

✓ AC 3219, Jan. 26, 1903
10.08 f 3 v 10.38 10.38 = 10.38 00 00
10.38 v 2 d 10.58
c not separated fr. adj. star
l normal

✓ AC 2981, Nov. 7, 1902
E nearly as faint as f — 10.58 d 5 v 11.08 10.83 = 10.96 .12 13
(Omit comp with f, as e gives no evidence of variation) — 10.83 v 1 i 10.93 ~~v 2 f~~

✓ AC 4141, Oct. 30, 1903
10.28 c 3 v 10.58 10.48 = 10.53 05 05
10.48 v 1 d 10.58
l normal

Nov. 17, 1903

"14, 1903" Cont.

✓ AC 3496, April 15, 1903
10.58 a 2 v 10.7

✓ AC 3462, March 31, 1903
Too poor

✓ AC 2943, Oct. 28, 1902
10.93 e 2 v 11.13 11.21 = 11.17 04 04
11.21 v 1 f 11.31
e normal

l rather ✓ AC 2399, March 10, 1902
faint? fns. — 10.58 d 3 v 10.88 10.73 = 10.80 08 07
10.73 v 2 e 10.93

near center of plate ✓ AC 3458, March 29, 1903
10.28 c 4 v 10.68 10.58 = 10.63 05 05
v 0 d 10.58
e ns.

✓ AC 3505, April 17, 1903
10.08 b 2 v 10.2

✓ AC 3457, March 29, 1903
Too poor

✓ AC 4030, Oct. 3, 1903
Too poor

November 17, 1903

"14, 1903" Cont.

Images very poor ✓ AC 3512, April 18, 1903
10.58 a 4 v 10.98 10.93 = 10.96 .02 .03
v 0 l 10.93
f ns.

✓ AC 3984, Sept. 24, 1903
10.58 a 3 v 10.88 10.~~93~~ 83 = 10.~~90~~ 86 ~~.12 .03~~ .02 .03
10.83 v 1 l 10.93
l normal

✓ AC 3541, April 24, 1903
Too poor

✓ AC 3489, April 11, 1903
Too poor

Very uncertain
Images poor + faint
l normal?
✓ AC 2375, March 2, 1902
10.93 l 1 v 11.03 11.11 = 11.07 .04 .04
11.11 v 2 f 11.31

✓ AC 3450, March 25, 1903
10.08 b 2 N 10.2

✓ AC 3370, Feb. 28, 1903
Too poor

✓ AC 3292, Feb. 13, 1903
10.08 b 2 N 10.2

l normal
Near centre of plate
✓ AC 3456, March 29, 1903
10.58 a 3 v 10.88 10.83 = 10.86 .02 .03
10.83 v 1 l 10.93

November 17, 1903

"14, 1903" Cont.

✓ AC 3283, Feb. 12, 1903
Too poor

✓ AC 2283, Feb. 6, 1902
10.93 l 1 v 11.03 11.11 = 11.07 .04 .04
11.11 v 2 f 11.31

l normal
Images very poor l normal?
✓ AC 2404, March 12, 1902
10.58 a 1 v 10.68 10.63 = 10.66 .02 .03
10.63 v 3 l 10.93

Images poor l bright?
✓ AC 3520, April 19, 1903
10.93 l 2 N 11.1

✓ AC 3485, April 10, 1903
Too poor

✓ AC 2258, Jan. 30, 1902
10.93 l 1 v ? 11.03 11.11 = 11.07 .04 .04
11.11 v 2 f ? 11.31
v partly hidden by a scratch. l normal

✓ AC 3230, Jan. 31, 1903
Too poor

✓ AC 3478, April 5, 1903
Too poor in reg. of V.

November 17, 1903

"14, 1903" Cont.

✓
Images poor AC 2361, Feb. 23, 1902
l normal?. 10.93 l 2 N 11.1

✓
l nearly as AC 2157, Jan. 3, 1902
bright as d 10.58 d 5 v 11.08 11.11 = 11.10 02 01
11.11 v 2 f 11.31

✓
AC 2246, Jan. 25, 1902
10.58 d 2 N 10.7
l n.s.

✓
AC 2114, Dec. 27, 1901
10.58 d 1 N 10.6
l n.s.

✓ Am 231 Oct 14, 1899
10.08 b 1 N 10.1

~~Am 11$\overset{2}{1}$7, Dec. 4, 1901~~
~~Too poor~~

✓
Am 283, Nov. 14, 1899
l faint, of 10.58 d 5 v 11.08 11.21 = 11.14 06 07
11.21 v 1 f 11.31
There is an object closely resembling a star image closely
following v. Probably a defect
Am 1166, April 1, 1902
Too poor

November 17, 1903

"14, 1903" Continued

✓ Am 284, Nov. 14, 1899
Film defective in reg. of Var.

✓
Images Am 434, April 11, 1900
very poor. 10.58 d 3 v 10.88 10.83 = 10.86 02 03
l normal? 10.83 v 1 e 10.93

✓ Am 246, Oct. 25, 1899
10.93 e 2 v 11.13
f n.s.
e normal

✓ Am 1622, Oct. 8, 1902
10.28 c 1 N 10.3

✓
Am 1195, April 9, 1902
Too poor

✓ Am 746, April 6, 1901
10.58 d 1 N 10.6
✓ Am 280, Nov. 13, 1899
10.58 d 4 v 10.98 11.01 = 11.00 02 01
11.01 v 3 f 11.31
l faint?
✓ Am 1638 Oct. 10, 1902
10.08 b 1 N 10.1
✓
Images ex- AC 3202, Jan. 21, 1903 Meas. Nov. 30, 1903
tremely faint 10.93 e 1 v 11.03
f n.s.

14, 1903 Cont.

✓ AC 85, Oct. 28, 1898
Too poor

~~AC 1036~~,

✓ I 20701, April 18, 1898
10.58 d 1 v 10.68 10.53 = 10.60 08 07
10.53 v 4 e 10.93
e normal

~~I 14750, March 27, 1896~~
~~Does not show neg~~

✓ AC 3602, May 9, 1903
Too poor

✓ AC 1400, April 12, 1901
Trails

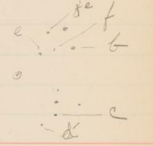
✓ AC 2450, April 2, 1902
10.58 d 3 v 10.88 10.83 = 10.86 02 03
10.83 v 1 e 10.93

On AC and AM plates the field is usually near the ~~end~~ edge. When it is near the centre a marginal note states the fact

Examination for variation in Comp. Star e for "14, 1903".

normal I 27604
d 3 d′
e′ 1 e
e ~~2f~~ e′
e′ ~~f~~ 1 f

I 25776 Too poor
I 27328, " "
I 26220
d 3 d′
d′ 1 e
e 2 e′
e′ 1 f
I 24144
d 4 d′
d′ 0 e
e 2 e′
e′ 1 f
I 27298 too poor
I 222 Edge
d 2 d′
d′ 2 e
e 2 e′
e′ 1 f
I 10123 near edge
d 5 e
e 1 d′
d′ 1 e



film side up

I 22479, Feb 25, '99
d 3 ~~d~~ e
~~e~~ 1 d′
d′ 1 e′
e′ 1 f

I 16994 Jan. 6, '97
d 4 d′
d′ 0 e
e 2 e′
e′ 1 f

I 10193, Dec. 17, '93
d 4 d′
d′ 0 e
e 2 e′
e′ 1 f

I 12412, Feb. 23, '95
d 5 d′
d′ 0 e
e 3 e′
e′ 1 f

November 18, 1903

Comp star e for 14, 1903 Cet

I 14723, Mar. 27, '96
d3d′
d′1e
e e e′
e′0f

I 17612, Mar. 16, 1897
d5d′
d′0e
e2e′
e′1f

I 22013, Dec. 23, '98
d5d′
d′0e
e2e′
e′1f

I 26785, Mar. 12, 1901
d4d′
d′0e
e2e′
e′1f

I 13921, Nov. 28, '95
too poor

I 12540, Mar. 19, '95
Missing

I 20353 Mar. 5, '98
too poor

I 29794, Jan. 1, '03 Class S
Class S – not available

I 8145, Feb. 28, '93
d4d′
d′0e
e2e′
e′1f

~~I 9792, Oct. 28~~, '93
AM 283, Nov. 14, '99
Too poor for exact comp.

AC 2157, Jan. 3 '02
d2e
e1d′
d′3e′
e′1f

AC 2981, Nov. 7, 1902
d4d′
d′0e
e1e′
e′1f
Image poor

AM 284, Nov. 14, '99
Too poor

Nov. 18, 1903

Comp. star e for "14, 1903" Cet

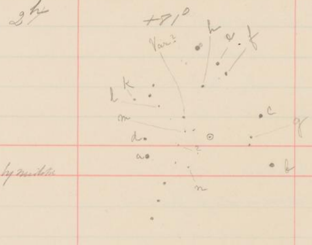
AC 1259
d5d′
d′0e
e1e′
e′0f
Images of e and f poor

AM 280, Nov. 13, '99
d5d′
d′1e
e1f
f1e′

An examination of all I plates shows no variation in this star. The AC. plates on which it was suspected give no definite result on re-examination. The images are too faint for dependence to be placed on the comparisons.

November 19, 1903

Measures to determine magnitudes of Comparison Stars for Mme Ceraski's Variable "15, 1903"



Sequence

	Plate I 27835	
a	7.4	
b	7.9	
c	8.3	d meas. by mistake
d	8.3	
e	8.5	
f	8.9	
g	9.3	
h	9.5	
k	9.8	
l	10.1	
m	10.4	
n	m 3 n	
Var	9.7	
Var(?)	10.0	

	Plate I 16701
a	7.7
b	8.1
c	8.1
d	8.4
e	8.6
f	8.9
g	9.2
h	9.5
k	9.7
l	10.2
m	10.3
n	m 3 n
Var	n.s.
Var(?)	9.9

November 19, 1903

Comparison Stars for "15, 1903" Cont.

	Plate I 28113
a	8.3
b	8.7
c	8.6
d	8.9
e	9.0
f	9.2
g	9.5
h	9.8
k	10.0
l	10.3
m	10.3
n	n.s.
Var	n.s.
Var(?)	10.1

	Plate I 23565
a	8.2
b	8.6
c	8.6
d	8.9
e	9.1
f	9.5
g	9.7
h	9.8
k	10.0
l	10.3
m	l 2 m
n	n.s.
Var	n.s.
Var(?)	10.1

November 20, 1903

Estimates of brightness of Ceraski's Variable
"15,1903" 2h 6.9m +81° 0.0' (1855) and of
Suspected Variable near it

✓
I 27835, Oct. 21, 1901
11.86 h 2 v 12.06 11.98 = 12.02 .04 .04
11.98 v 1 K 12.08

K'

~~I 9953,~~ K 2 v(?)
v(?) 1 l

✓
I 9953
v 12.43 l 2 N 12.6

v(?) . h 1 v(?)
v(?) 2 k

✓
I 14429 Spectrum plate
v 11.64 g 1 N 11.7
✗
v(?) g 1 N

✓
I 10962. April 2, 1894 Spectrum plate
Too poor

✓
I 30818, Sept. 6, 1903
v 12.08 K 2 N 12.2

v(?) K 2 v(?)
l n.s.

November 20, 1903

"15, 1903" Continued

✓
I 30885, Sept. 13, 1903
v 12.43 l K 2 v 12.63 12.58 = 12.60 .03 .02
v 0 m 12.58
Very uncertain - Images scarcely visible
v(?) l K 1 v(?)
v 4 m
Uncertain

✓
I 29872, Jan. 21, 1903
Too poor

✓
I 29914, Jan. 31, 1903
Images extremely faint v 12.08 K 4 v 12.48 12.43 12.48 = 12.46 .02 .03 .02
v 0 l 12.43
12.48 v 1 m 12.58

v(?) K 2 v(?)
v(?) 2 l

✓
I 12877, May 10, 1895
Plate fogged in reg. of Var.

✓
I 29918, Jan. 31, 1903
Images fairly clear 12.08 K 4 v 12.48 12.43 12.48 = 12.46 .02 .03 .02
v 0 l 12.43
12.48 v 1 m 12.58

K 2 v(?)
v(?) 2 l

November 20, 1903

"15, 1903" Continued

I 30908, Sept. 21, 1903
Too poor

B140
Spectrum - too faint

B112
Spectrum - too faint

✓ I 14331, Jan. 22, 1896
Spectrum - too faint

✓ I 14330, Jan 22, 1896 Spectrum - too faint
✓ I 14282 Jan. 12, 1896 " " "
B 1899 " " "
B 236 Tesils
✓ I 14332, Jan. 22, 1896 Spectrum too faint

Extremely faint ✓ I 29924, Jan. ~~23~~ 31, 1903
v 12.08 k 3 v 12.38 12.33 = 12.36 .02 .03
12.33 v 1 l 12.43

v(?) L 2 v(?)
v(?) 0 k
v(?) ~~2~~ 4 l

Images extremely faint Comparison difficult
I 30910, Sept. 21, 1903
v 12.58 m 1 v 12.68
n n.s.
v(?) k 2 v(?)
v(?) 2 l

November 20, 1903

"15, 1903" Continued

Extremely faint ✓ I 30702, Aug. 12, 1903
v 12.88 n 1 v 12.98

v(?) k 1 v(?)
v(?) 3 l

I 30618, Oct. 2, 1895
Too poor

✓ I 14381, Jan. 30, 1896
Too poor

✓ I 13594, Oct. 1, 1895
Too near edge

Images faint Comparisons uncertain
✓ I 29957, Feb. 6, 1903
v 12.08 k 2 v 12.28 12.33 = 12.30 .02 .03
12.33 v 1 l 12.43

L 2 v(?)
v(?) k 0 v(?)
v(?) 2 l

Star l appears unduly bright, but it may be owing to faintness and diffuseness of its image

I 30703, Aug. 12, 1903
see next page

November 20, 1903

"15, 1903" Continued

v barely visible
Film rather dark

✓ I 30703, Aug. 12, 1903
12.88 n 3 v 13.18

k 1 v(?)
v(?) 3 l

The faint stars on this plate do not show their normal relations. The order is l 2 n $\overset{2}{3}$ m

✓ I 14221, Jan. 3, 1896 Spectrum plate – too faint
✓ I 14179, Dec. 31, 1895 Class M – not available
✓ I 14167, Dec. 27, 1895 Spectrum plate – too faint
✓ I 14166, Dec. 27, 1895 " " " "
✓ I 14165 " " " Class M not available
I 14159 Dec. 23, 1895 Spectrum plate
✓ I 14084 Dec. 17 " Class M
✓ I 14067 " 16 " " "
✓ I 13619, Oct. 21, 1895 Too poor
✓ I 14222 Jan. 3, 1896 Class M
✓ I 30732, Aug. 17, 1903
A defect in reg. of var. makes comp. unsafe
✓ I 29992, Feb. 17, 1903
11.34 f 2 v 11.54 11.54 = 11.54 00 00
11.54 v 1 q 11.64

k 2 v (?)
v(?) 2 l

Faint stars normal k rather faint (q 3 b, b 1 k

November 20, 1903

"15, 1903" Continued

✓ I 30819. Sept. 5, 1903
Too poor

✓ I 30850, Sept. 11, 1903
✓ 12.58 m 1 v 12.68
m n.s.

(??) k 1 v(?)
✓ v(?) 3 l
✓ I 14281, Jan. 12, 1896 Too poor
✓ I 14280 " " " Spectrum plate
✓ I 14243 " 4 " " "
✓ I 30847, Sept. 11, 1903
✓ 12.43 l 1 v 12.5

v(?) k 3 v(?)
v(?) 1 l

Sequence appears normal

✓ I 30113, Feb. 26, 1903
11.02 l 2 v 11.22 11.24 = 11.23 01 01
11.24 v 1 f 11.34
k 2 (v ?)
v(?) 1 l

Sequence normal m, n, n.s.

November 20, 1903

"15, 1903" Continued

✓ I 29996, Feb. 17, 1903
11.34 f 3 v 11.64 11.54 = 11.59 05 05
11.54 v 1 g 11.64
k 3 v(?)
v(?) 1 l

Sequence normal — n n.o.

✓ I 30843, Sept. 11, 1903
12.43 l 1 N 12.5
k 2 v(?)
v(?) 1 l

✓ Sequence normal

I 9947, Nov. 18, 1893
12.58 m 1 N 12.6
k 1 (v?)
v(?) 3 l

Sequence normal

✓ I 30824, Sept. 6, 1903
11.86 h 2 N 12.0
h 2 v(?)

The film is poor in reg. of k, which may possibly be present

✓ Seq. normal

I 9830, Oct. 30, 1893
12.58 m 1 N 12.6
k 4 (v?)
v? l
v(?) 2 m

h appears faint. g 5 h, h ok   n n.s.

November 20, 1903

"15, 1903" Continued

Edge of plate

✓ I 19519
10.84 d 3 v 11.14 10.82 = 10.98 16 16
10.82 v 2 l 11.02
k 1 v(?)
Im. faint v(?) 3 l

✓ Seq. normal

I 11834, Nov. 10, 1894
10.54 c 5 v 11.04 10.84 10.62 = 10.83 21 01 21
v 0 d 10.84
10.62 v 4 l 11.02

✓ I 1913,
12.58 m 1 N 12.6
h 1 v(?)
v(?) 2 k

v(?) very sharp in focus. Comparison very difficult
sequence normal

✓ I 30841, Sept. 7, 1903 too poor

✓ I 10677, Feb. 16, 1894
11.34 f 1 v 11.44 11.44 = 11.44 00 00
11.44 v 2 g 11.64
k 1 v(?)
l n.o.

h faint? image diffuse h o k (focus sharp)

November 20, 1903

"15, 1903" Continued

✓ I 9869,
12.08 k 1 N ~~[illegible]~~ 12.1
h 2 r(?)
r(?) 1 k

I 5157, Dec. 13, 1901
11.34 f 1 v 11.44 11.34 = 11.39 05 05
11.34 v 3 g 11.64
r(?) h 2 v
There is an object in pos. of k which probably combines a star image with a defect

✓ I 30853, Sept 11, 1903
12.88 n 1 N 12.9
k 1 r(?)
r(?) 2 l
✓ g appears rather faint (f 5 g, g 2 h) Seq. otherwise normal

I 13593, Oct. 1, 1895
12.08 k 4 v 12.48 12.33 = 12.40 08 07
12.33 v 1 l 12.43
k 4 v(?)
v(?) 1 l
k appears unduly bright (h 0 k) g-l normal
m a grade brighter than l in n.s. film rather dark

✓ I 7454,
12.43 l 2 N 12.6
a scratch hides the image of r(?)
l appears rather bright. k 2 l h-k normal

November 20, 1903

"15, 1903" Continued

✓ I 30823, Sept. 6, 1903
Images too poor - Sequence quite abnormal - film in poor condition v n.s. r(?) seen

✓ I 8027, Feb. 7, 1893
v 12.08 k 1 N 12.1
r(?) k 1 N

✓ I 16701, Dec. 7, 1896
12.88 n 2 N 13.0
k 2 r(?)
r(?) 3 l
g 4 h, 0 k 5 l - k appears bright

✓ I 30822, Sept. 6, 1903
12.43 l 1 N 12.5
k 1 r(?)
r(?) 3 l
✓ h appears faint equalling k

r scarcely visible. Obs. uncertain

I 28113, Dec. 21, 1901
12.88 n 1 V 12.98
k 2 r(?)
r(?) 2 l
✓ Sequence normal

I 22349, Feb. 20, 1899
12.43 l 2 N 12.6
k 3 r(?)
r(?) 4 l
g 2 k 1 h 6 l k appears bright
film rather dark

November 20, 1903

15, 1903 Continued

√

I 30856, Sept. 11, 1903

12.58 m 2 N 12.7

k 1 v(?)

v(?) 3 l

Sequence normal

√

I 13598, Oct. 1, 1895

12.08 k 4 v 12.48 12.43 = 12.46 02 03

v 0 l 12.43

m n.s.

k 3 v(?)

v(?) 1 l

sequence normal

√

near edge I 23565, Sept. 17, 1899

12.58 m 1 N 12.6

k ~~f~~ 2 v(?)

v(?) 2 m

l 1 v

l appears bright and perhaps faint

h 5 k 1 l 3 m

+ t

√

I 5025,

11.64 g 1 v 11.74 11.56 = 11.65 09 09

11.56 v 3 h 11.86

k n.s.

g 2 v(?)

v(?) 2 h

h scarcely seen. faint?

November 21, 1903

"15, 1903" Continued

√

near edge I 29631, Dec. 6, 1902

12.58 m 1 N 12.6

k 3 v(?)

v(?) 2 l

k appears rather bright. seq. otherwise normal

√

I 29801, Jan. 1, 1903

12.58 m 1 N 12.6

k 2 v(?)

v(?) 2 l

sequence normal

√

near edge I 30811, Sept. 3, 1903

12.43 l 1 N 12.5

k 1 (v?)

v(?) 2 l

sequence normal

√

near edge I 29827, Jan. 16, 1903

v 12.08 k 1 N 12.1

v(?) k 1 N

h n.s. sequence otherwise normal

√

I 10270, Dec. 23, 1893

Too poor

√

I 11464, Sept. 20, 1894

12.08 k 2 N 12.2

In pos. of v(?) there are two star like images; their elongation in a different direction from other images, would show that they are defects. If v(?) is present they must

"15, 1903" Continued

✓

near edge I 29884, Jan. 2, 1903

12.08 k 4 v 12.48 12.43 12.46 0.203

v 0 l 12.43

m n.s.

k 1 v(?)

v(?) 3 l

✓ Sequence normal

I 9870, Nov. 1, 1893

11.34 f 1 N 11.4

f 1 N

A star like object near pos. of V does not coincide when plates are superposed

near edge ✓ I 29187, Aug. 27, 1902

12.43 l 1 N 12.5

k 1 v(?)

v(?) 3 l

✓ sequence normal

near edge I 9805,

12.43 l 1 N 12.5

k 3 v(?)

v(?) 1 l

✓ Sequence normal

I 30798, Sept. 1, 1903

Too poor

✓ I 30810, Sept. 3, 1903

11.86 L 1 N 11.9

L 1 N

"15, 1903" Cont.

✓

near edge I 29062, Aug. 7, 1902

12.58 m 1 N 12.6

k 1 v(?)

v(?) 2 l

✓ k appears to me rather faint

I 9818, Oct. 29, 1893

Too near edge

✓

near edge I 29624, Dec. 6, 1902

12.58 m 1 N 12.6

k 1 v(?)

v(?) 3 l

Sequence normal

near edge ✓ I 29799, Jan. 1, 1903

12.88 n 1 N 12.9

k 4 v(?)

v(?) 2 l

✓ k appears bright g 3 h 0 k 6 l

✓ I 29184, Aug. 27, 1902

Too poor

✓ I 14382, Jan. 30, 1896

Too poor

✓ I 5158, Dec. 13, 1891

Too near edge

✓ I 9787, Oct. 25, 1893

Too poor

✓ I 30797, Sept. 1, 1903

Too poor

November 21, 1903.

"15, 1903" Continued

near edge ✓ I 28312
12.43 l 1 v 12.53 × 12.48 = 12.50 03 02
12.48 v 1 m 12.58
Uncertain. Identification of V doubtful
k 1 v (?)
v(?) 3 l
Sequence normal

near edge ✓ I 29060, Aug. 7, 1902
12.08 k 1 N 12.1
k 1 N
Sequence normal

near edge ✓ I 29634, Dec. 6, 1902
12.88 n 1 N 12.9
k 2 v (?)
v(?) 2 l
Sequence normal

✓ I 5079, Dec. 11, 1891
Too near edge

I 30794, Sept. 1, 1903
Too poor

✓ I 5078,
Too near edge

✓ near edge I 29533, Nov. 10, 1902
12.43 l 1 v 12.53
m n. s.
Very uncertain. Ident. of v doubtful
k 2 v (?)
v(?) 2 l
Sequence normal

November 24, 1903

"15, 1903" Continued

✓ I 29623, Dec. 6, 1902
12.88 n 1 N 12.9
k 2 v (?)
v (?) 0 k
v(?) 4 l
Focus of k diffuse

near edge ✓ I 29180, Aug. 27, 1902
12.88 n 1 N 12.9
k 1 v (?)
v(?) 3 l
Sequence normal

✓ I 7456, Nov. 3, 1892
12.43 l 1 v 12.53 12.48 = 12.50 $0\overset{3}{\cancel{2}}$ 02
12.48 v 1 m 12.58
Very uncertain. Images very poor & scarcely visible
k 2 v (?)
v(?) 1 l

✓ I 28293, Jan. 19, 1902
Too near edge

✓ I 30796, Sept. 1, 1903
Too poor

✓ near edge I 27619, Sept. 27, 1901
✓ 11.34 f 2 v 12.54 12.54 = 12.54 00 00
12.54 v 1 g 11.64
v(?) k 1 N

near edge ✓ I 30793, Sept. 1, 1903
12.43 l 1 N 12.5
k 3 v (?)
v(?) 1 l
Seq. normal

November 21, 1903

"15, 1903" Cont.

Near edge ~~I 30793, Sept. 1, 1903~~
~~l, N~~

near edge ✓ I 30883, Sept. 13, 1903
12.58 m, N 12.6
k 2 v(?)
v(?) 0 l
v(?) 3 m
l appears to be rather bright, but the images are faint and poor and relative brightness difficult to estimate

✓ I 28114, Dec. 21, 1901
Too near edge

near edge ✓ I 28259, Jan 17, 1902
12.43 l, N 12.5
k 2 v(?)
v(?) 2 l
Images very poor

✓ I 29271, Sept. 11, 1902
12.43 l, N 12.5
Images too poor for comp. of v(?)

✓ I 2872, Jan. 20, 1891
Too poor in reg. of var.

✓ I 29132, Aug. 17, 1902
12.08 k 3 N 12.3
k 2 v(?)
l n.s.

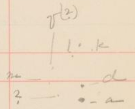
November 21, 1903

"15, 1903" Cont

near edge ✓ I 30884, Sept. 13, 1903
12.43 l, N 12.5
k 2 v(?)
v(?) 2 l
Sequence normal

near edge ✓ I 28290, Jan. 19, 1902
12.43 l, N 12.5
k 2 v(?)
v(?) 2 l

✓ I 30700, Aug 12, 1903
12.58 m, N 12.6
k 2 v(?)
v(?) 3 l
A star near by appears abnormally bright
k 3 ?
? 2 l
? 3 m
Sequence normal, though l seems to be rather faint



near edge ✓ I 30784, Aug. 27, 1903
12.58 m, N 12.6
l, v(?)
v(?) 2 m
k 3 v(?)
l 3 ?
? 1 m
l appears bright on this plate

15, 1903 Continued

✓
I 25798, Sept. 13, 1900
Too poor

✓
I 27415 Aug. 30, 1901
11.02 e 2 r 11.22 11.24 = 11.23 01 01
11.24 r 1 f 11.34
Images very faint
g 1 N

r(?) ✓
I 27617, Sept. 27, 1901
11.02 l 3 r 11.32 11.24 = 11.28 04 04
11.24 r 1 f 11.34
K 3 r(?)
r(?) 1 l
2 mg. Sequence normal

✓
B 3056
Spectrum plate - too faint

✓
I 688, Feb. 20, 1890
Too near edge

✓
I 1055, April 21, 1890
Spectrum - too faint

✓
I 29649, Dec. 8, 1902
12.43 l 2 N 12.6
K 2 r(?)
r(?) 2 l
Sequence normal

"15, 1903" Continued

✓
I 19725 Dec. 12, 1897
11.02 l 3 r 11.32 11.24 = 11.28 04 04
11.24 r 1 f 11.34
K 1 N
Sequence normal

✓
I 22528 March 1 1899
Clas

✓
I 30781,
12.88 n 3
K 2 r(2
r(?) 2 l
This is … have found
Every star … definite.
The order … in I 30700 p 133
supposed … between
me land … estion whether
apparent f … r(?) are
not due … rying con-
ditions of … nce of a
grade or … in such
extremely

d 10308

Am 231 ✓	7.0	+18.5
246 ✓	7.0	+18.8
1151	7.0	−15.0
1663 ✓	7.0	−14.5
1769	7.0	−15.0
1775 ✓	7.0	−14.1
1848	7.0	−15.
1907	8.0	0

✓
I 23377, Aug. 17, 1899
Class M

✓
I 21538, Oct. 28, 1898
11.86 h 1 N 11.9
h 1 N

November 21, 1903

15, 1903 Continued

√

I 25798, Sept. 13, 1900
Too poor

√

I 27415 Aug. 30, 1901
11.02 l 2 v 11.22 11.24 = 11.23 01 01
11.24 v 1 f 11.34
Images very faint

v(?) g 1 N
√ I 27617, Sept. 27, 1901
11.02 l 3 v 11.32 11.24 = 11.28 04 04
11.24 v 1 f 11.34
k 3 v(?)
v(?) 1 l

√ 2mo. Sequence normal
B 3056
Spectrum plate - too faint

√ I 688, Feb. 20, 1890
Too near edge
√ I 1055, April 21, 1890
Spectrum - too faint
√ I 29649, Dec. 8, 1902
12.43 l 2 N 12.6
k 2 v(?)
v(?) 2 l
sequence normal

November 21, 1903

"15, 1903" Continued

√ I 19725 Dec. 12, 1897
11.02 l 3 v 11.32 11.24 = 11.28 04 04
11.24 v 1 f 11.34
k 1 N
sequence normal

√ I 22528, March 1, 1899
Class M

√ I 30781, Aug. 27, 1903
12.88 n 3 N 13.1
k 2 v(?)
v(?) 2 l

This is the clearest plate I have found. Every star in the sequence is definite. The order is normal. The star in I 30700 p 133 supposed to be too bright is between m l and m (l, ? 2 m). I question whether apparent fluctuations even of v(?) are not due to the effect of varying conditions of the film. A difference of a grade or two is conspicuous in such extremely faint objects.

√ I 23377, Aug. 17, 1899
Class M
√ I 21538, Oct. 28, 1898
11.86 h 1 N 11.9
h 1 N

15, 1903 Cont.

✓ I 14480 Feb. 22, 1896
Class M

✓ I 14712 March 4, 1896 Spectrum plate
12.08 k 1 N 12.1
k 1 N

✓ near edge I 15808 Aug. 28, 1896
12.43 l 2 N 12.6
v(?) almost invisible l 1 v(?)
m n.s.
g 1 h 2 k 2 l Sequence not normal

✓ I 16559, Nov. 16, 1896
Too near edge
✓ I 19531, Nov. 9, 1897
Var not on plate
✓ I 14607, March 7, 1895
Spectrum plate
✓ I 22146 Spectrum plate
✓ I 7597, Too poor
✓ I 24214, Dec. 12 1899
Too near edge
✓ I 23593, Sept. 20, 1899
Too near edge
✓ I 29267, Sept. 11, 1902
12.08 k 1 N 12.1
k 1 N

15, 1903 Cont.

✓ I 30736, Aug. 17, 1903
12.08 k 3 N # 12.3
k 2 v(?)
l n.s.

✓ I 21547, Oct. 30, 1898
Too near edge
✓ I 24215, Dec. 12, 1899
Too near edge
✓ I 30759, Aug. 23, 1903
Too poor
✓ near edge I 29$\overset{26}{\cancel{62}}$9, Sept. 11, 1902
Images very poor + faint 12.08 k 1 N 12.1
k 1 v(?)
l n.s.
✓ I 30146, March 3, 1903
Too poor
I 14430, Feb. 11, 1896
✓ I 7598, Dec. 2, 1892
Too poor
✓ I 23592, Sept. 20, 1899
Too poor in reg. of Var.

✓ I 30734, Aug. 17, 1903
12.88 n 1 N 12.9
k 2 v(?)
v(?) 2 l
Clear plate - Images very distinct - seq. normal

November 21, 1903

15, 1903, Cont.

✓ I 7599 Dec. 2, 1892
Too poor

✓ I 16558, Nov. 16, 1896
Var. off edge

✓ I 14455, Feb. 16, 1896
Spectrum plate

✓ I 29063 Too poor

near edge ✓ I 30780, Aug. 27, 1903
12.58 m 2 N 12.7
k 2 r(?)
r(?) 2 l
✓ Clear plate – seq. normal

near edge I 30684, July 28, 1903
12.~~58~~88 n 2 N ~~12.7~~ 13.0
k 2 r(?)
r(?) 2 l
✓ Clear plate – seq. normal

I 24824, March 13, 1900
Seq. not on plate

✓ I 25797, Sept. 13, 1900
Too poor

✓ B 1900
Spectrum plate

✓ B 1923 Spectrum plate

✓ I 29666, Dec. 14, 1902
Too poor

Nov. 21, 1903

15, 1903 Cont.

✓ I 14428, Feb. 11, 1896
~~Too~~ Spectrum plate

near edge ✓ I 30735 Aug. 17, 1903
12.43 l 1 N 12.5
k 2 r(?)
v(?) 1 l
Images very faint + poor. m appears rather bright. Seq. otherwise normal

✓ I 29265, Sept. 11, 1902
12.88 n 1 N 12.9
k 1 v(?)
v(?) 2 l
✓ m scarcely seen. Seq. seems to be normal

I 30339, April 19, 1903
12.08 k 1 v 12.18 12.13 – 12.16 0.2 0.3
12.13 v 3 l 12.43
k 2 v(?)
v(?) 2 l
Seq. appears to be normal

✓ I 30665, July 23, 1903
12.88 n 2 N 13.0
~~k 2~~
k 2 v(?)
v(?) 3 l
l appears to be faint – Seq. otherwise normal

November 21, 1903

✓ "15, 1903" Cont.

I 21548, Oct. 30, 1898
Too near edge

✓

Images very faint and poor

I 21805 Nov. 28, 1898
12.43 l 1 N 12.5
k 1 v(?)
v(?) 3 l

I 24232, Dec. 13, 1899
12.58 m 2 N 12.7
k 2 v(?)
v(?) 2 l
Sequence apparently normal ✓

✓ I 22350, Feb. 20, 1899
Reg. not on plate

a 1529, July 18, 1895
12.08 k 3 N 12.3
k 2 v(?)
~~v(?)~~ l n.s.
Sequence normal

✓ a 1472 does not cover reg.
✓ a 1462, May 16, 1895
A large defect occupies pos. of Variable
k 2 v(?)
v(?) 2 l

✓ Seq. normal

Sequence normal

a 50, Nov. 26, 1893
12.88 a 1 N 12.9
k 1 v(?)
v(?) 3 l

November 21, 1903

"15, 1903" Continued

✓

Images poor

I 9946, Nov. 18, 1893
12.43 l 1 N 12.5
k 1 v(?)
v(?) 3 l
Sequence apparently normal

✓ I 7056 does not cover region
✓ I 686 " " " "

Continued Book 5, page 105

November 27, 1903

See Book 3 page 96

Examination of AC and AM Plates for
Variation in 5, 1903, 5h 46m.7 +15° 51′ (1900)
and 6, 1903 5 47.3 +15 42 (1900)

AM 261, Oct. 28, 1899
AM 698 Oct. 16, 1900
AM 1646 Oct. 11, 1902
AM 252 Oct. 26, 1899
AM 1520, Aug. 23, 1902
AM 222, Oct. 13, 1899
AM 337, Dec. 2, 1899
AM 1636, Oct. 10, 1902
AM 1131, Dec. 5, 1901
AM 674, Sept. 19, 1900
AM 1616, Oct. 7, 1902
AM 1610 Oct. 6, 1902
AC 3337, Feb. 22, 1903
AC 3300 Feb. 14, 1903
AC 2862, Oct. 6, 1902
AC 2308 Feb. 10, 1902
AC 650, Jan. 3, 1900
AC 566, Dec. 4, 1899
AC 164, Jan. 18, 1899

On the above plates "5, 1903" shows no variation to exceed two grades. Probably it does not vary at all on them. "6, 1903 is too faint for comparison on these plates. The brighter star near it shows no variation.

November 27, 1903

Ceraski's Variable 201520 ("21, 1902")
Argelander estimates of brightness Continued from Book 3, page ~~28~~ 32. See also Bk 3 pp. 94, 198-207

✓
Plate I 30805, Sept. 3, 1903
Too near edge

✓
Near edge – I $\overset{3}{2}$0834, Sept. 8, 1903
Images very poor 10.83 g 1 V 10.93 10.86 = 10.90 03 04
10.86 V 2 l 11.06

✓
I $\overset{3}{2}$1027, Oct. 21, 1903
Extreme edge 10.54 f 1 V 10.64 10.63 = 10.64 00 01
of plate 10.63 V 2 g 10.83

✓
I 30802, Sept. 3, 1903
Extreme edge – too poor

✓
Extreme edge, I 30835, Sept. 8, 1903
Comp. difficult 10.83 g 3 V 11.13 10.96 11.04 09 08
10.96 V 1 l 11.06

✓
I 31024, Oct. $\overset{2}{3}$1, 1903
10.16 l 2 V 10.36 10.34 = 10.35 01 01
10.34 V 2 f 10.54
near edge. The film is in poor condition near V, and
Images may affect the apparent brightness.
clear

✓
I 30804, Sept. 3, 1903
Near edge, too poor

Nov. 27, 1903

Ceraski's Var 201520 Cont

I 30921, Sept. 22, 1903
Too near edge

✓ I 31029 Oct. 21, 1903
Near edge
Images poor
10.16 l 4 v 10.56 10.54 10.53 10.54 02 00 01
v 0 f 10.54
10.53 v 3 g 10.83

✓ I 30697, August 10, 1903
Extreme edge
Obs. doubtful
11.06 h 2 v 11.26 11.80 = 11.53 27 27
11.80 v 3 m 12.10
k not separated from l

✓ I 30803, Sept. 3, 1903
Too poor

✓ I 30716, Aug. 15, 1903
Extreme edge
Images poor
11.33 k 1 v 11.43 11.62 = 11.52 09 .10
11.62 v 2 l 11.82

✓ I 30808, Sept. 3, 1903
Too poor

✓ I 30829, Sept. 8, 1903
Extreme edge
Images poor
10.83 g 1 v 10.93 10.76 = 10.84 09 08
10.76 v 3 h 11.06

I 31061, Oct. 26, 1903
Extreme edge
11.06 h 5 v 11.56 11.70 = 11.63 07 07
11.70 v 4 m 12.10
k + l not separated

Nov. 27, 1903

Ceraski's Var. 201520 Cont.

✓ I 30720, Aug. 15, 1903
Extreme edge. Images poor & faint
11.06 h 4 v 11.46
k + l not separated
m n.s.

✓ I 30696, Aug. 10, 1903
Extreme edge of plate
11.06 h 5 v 11.56 11.80 = 11.68 .18 2 12
11.80 v 3 m 12.10
k + l not separated

✓ I 30831, Sept. 8, 1903
Extreme edge. Comp. difficult
10.83 g 3 v 11.13 11.06 = 11.10 03 04
11.06 v 0 h 11.06
k + l not separated

✓ I 31060, Oct. 26, 1903
Extreme edge of plate
11.06 h 6 v 11.66 11.80 = 11.73 07 07
11.80 v 3 m 12.10
k + l not separated

✓ I 30827, Sept. 8, 1903
10.83 g 2 v 11.03
h covered by defect in film
k + l not separated

✓ I 30687, July 31, 1903
Too near edge

November 27, 1903

Ceraski's Var. 201520 Cont

√ Plate I 30807, Sept. 3, 1903
Too poor

√ I 30806, Sept. 3, 1903
Too poor

Very uncertain
Images faint

√ AC 3931, Sept. 13, 1903
?, 10.54 f 2v 10.74 10.73 = 10.74? 00 01
10.73 v 1 g 10.83

Images very
clear

√ AC 4075, Oct. 21, 1903
10.16 l 1 v 10.26 10.14 = 10.20 06, 06
10.14 v 4 f 10.54

√ AC 3974, Sept. 23, 1903
Too poor

Image of v
poor

√ AC 4058, Oct 19, 1903
10.83 g 1 v 10.93 10.86 = 10.90 03 04
10.86 v 2 h 11.06

AC 3996, Sept. 26, 1903
Light too poor

November 28, 1903

Ceraski's Var. 201520 ("21, 1902") Cont.

Extremely
doubtful.
Images on the
verge of visibility

√ Plate AC 3996, Sept. 26, 1903
10.54 f 2v ? 10.74 10.73 = 10.74 ? . 00 01
10.73 v 1 g ? 10.83

AC 3861, Aug. 24, 1903
Reg. not on plate

√ AC 4046, Oct. 15, 1903
9.87 d 1 N 9.9

√ AC 3853, Aug. 21, 1903
9.44 c 3 N 9.7

√ AC 3775, July 23, 1903
9.87 d 1 N 9.9

Very doubtful.
Images scarcely
seen

√ AC 3908, Sept. 8, 1903
11.06 h 2 v 11.26 11.23 = 11.24 02 01
11.23 v 1 k 11.33

Doubtful.
Images very
faint

√ AC 3862, Aug. 24, 1903
10.54 f 1 v 10.64
g n.s.

Doubtful
Images very
faint

√ AC 3819, Aug. 12, 1903
11.33 k 1 v 11.43
l n.s.

~~Outward p. 151~~

November 28, 1903

Ceraski's Var 201520 Cont

√ AC 3730, June 23, 1903 — Images faint, Obs. doubtful
10.54 f 2 v 10.74 10.96 = 10.85 .11 11
10.96 v 1 h 11.06
Trails - g hidden by trail

√ AC 3675, May 23, 1903
10.83 g 1 N 10.9

√ AC 3879, Sept. 2, 1903
10.83 g 1 N 10.9

√ AC 3946, Sept. 18, 1903
10.16 e 1 N 10.2

√ AC 3736, June 26, 1903
10.16 e 1 N 10.2

√ AC 3708, May 31, 1903 — Images very faint. Obs. doubtful
11.06 h 2 v 11.26
k n.s.

√ AC 4031, Oct. 6, 1903
9.87 d 2 N 10.0

√ AC 4009, Sept. 29, 1903 — Images clear
10.54 f 1 v 10.64 10.43 = 10.54 10 11
10.43 v 4 g 10.83

November 28, 1903

Ceraski's Var. 201520 Cont.

√ AC 3844, Aug. 18, 1903
Too poor

AC 3594, May 6, 1903
Too poor

√ AC 3804, Aug. 7, 1903
9.87 d 1 N 9.9

√ AC 3767, July 15, 1903
10.54 f 4 v 10.94 10.83 10.86 = 10.88 .06 05 02
10.83 v 0 g 10.83
10.86 v 2 h 11.06

AC 3995, Sept. 26, 1903
Reg. not on plate

√ AC 3571, April 29, 1903
8.94 b 1 N 9.0

Continued page 151

November 28, 1903

Examination of a few plates for Kapteyn's Variable 074923 - Puppis measured in Book 3 pp

B13013	April 11, 1895
B15077	Oct. 31, 1895
B18078	Nov. 27, 1896
B18236,	Dec. 28, 1896
B10529	
B10530	
B14989	Oct. 28, 1895
B14969	Oct. 25, 1895
B18045	Nov. 25, 1896

The first four plates show no variation. The last five (B10529 onward) all have the star too near the edge for safe observation. It is too bright to observe when not favorably placed. It will probably be well to cut out all plates in which the region is near the edge. These plates were taken at random from among those showing an apparent variation of .2 or .3 of a magnitude

December 1, 1903

Ceraski's Var. 201530 Cont. from p. 147

Near edge

√ Plate I 31137. Nov. 14, 1903

10.54 f 1 v 10.64 10.63 = 10.64 00 01

10.63 v 2 g 10.83

Edge of plate. Images poor

√ Plate I 31140 Nov. 14, 1903

10.83 g 1 x v 10.93 10.86 = 10.90 03 04

10.86 v 2 h 11.06

Too near Dec. 4, 1903

√ Plate I 30772, Aug. 24, 1903

Too near edge

December 1, 1903

Examination of Plates for Variables (?) 5, 1903, and 6, 1903, near Z Tauri

Superseded. Sequence changed see pp 158 ff

Extreme edge of plate

I 7935 Jan. 21, 1893
B 2 (5)
(5) 1 C

~~h 1(6)~~
~~(6) 1 k~~

g 3(6).
(6) 2 l′

I 21422, Oct. 15, 1898
B 2 (5)
(5) 2 C

h 1 (6)
(6) 1 k

I 7951, Sept. 15, 1903
A 3 (5)
(5) 0 B
(5) B 1 C

Images poor. Comp difficult

~~h 1 (6)~~
~~(6) 1 k~~

g 3 (6)
(6) 2 l′

I 5640, Feb. 15, 1902
B 1 (5)
(5) 2 C

~~g 4 (6)~~
~~(6) 0 h~~
(6) 2 k

g 2 (6)
(6) 3 l′

December 1, 1903

Superseded

Variables "5, 1903" + "6, 1903" Tauri - Cont.

I 5622, Feb. 13, 1892
B 1 (6)
(6) 2 C

~~g 2(6)~~
~~(6) 1 h~~

g 2(6)
(6) 2 l′

The image of (6) looks as if a scratch crossed it. Probably a defect in film makes it appear too bright

I 2081 - Too poor

I 5620, Feb. 13, 1892 Too poor

B 280 Too poor

near edge of plate

B 262
B 1 (5)
(5) 2 C

Images poor

~~h 2 (6)~~
~~(6) 1 k~~

g 3 (6)
(6) 2 l′

B 263 - Spectrum plate - too poor
B 251 " " too faint

B 250,
B 2 (5)
(5) 3 C

~~k 2 (6)~~
~~(6) 0 l~~
~~(6) 4 m~~

g 4 (6)
(6) 1 l′

December 1, 1903

Superseded

5, 1903, 6, 1903 Tauri Cont

B 244 Too near edge

I 2659, Dec. 29, 1890
Images poor
B 1 (5)
(5) 3 C

~~h 1 (6)~~ g 3 (6)
~~(6) 2 l~~ (6) 2 l'

I 2538, Dec. 19, 1890
Spectrum plate. Image of D superposed

B 277 - Spectrum plate - too faint

I 2510, Dec. 15, 1890
Spectrum plate - D superposed
Too faint for (6)

I 2324 Nov. 21, 1890
Spectrum plate

I 4705 - Nov. 3, 1891
Too near edge

I 4759 Nov. 13, 1891
Class Ist. Imag. resemble spectra
B 2 (5)
(5) 2 C
Too faint to compare (6)

December 1, 1903

Superseded

5 and 6, 1903 Tauri Cont.

I 20057, Jan. 17, 1898
B 1 (5)
(5) 1 C

h 1 (6)
(6) 1 k

Comparison on this plate difficult on account of lines marking stars of sequence. Also, the images are intense and difficult in themselves to compare

I 17403, Feb. 24, 1897
B 1 (5)
(5) 1 C

~~g 1 (6)~~ 2
~~(6) 0 h~~ g 2 (6)
~~(6) 2 k~~ (6) 3 l'

I 7965, Jan. 25, 1893
Extreme edge of plate
A 3 (5)
(5) 0 B
(5) 2 C

~~k 1 (6)~~ g 2 (6)
~~(6) 1 k~~ (6) 2 l

I 10187, Dec. 17, 1893
Images very poor
(5) not comparable - A, B, C, appear nearly equal
~~k 1 (6)~~ g 3 (6)
~~(6) 1 l~~ (6) 2 l'

December 2, 1903

Superseded

5 and 6, 1903 ~~Lyrae~~ Tauri Cont

I 10260, Dec. 23, 1893
Extreme edge of plate — B1(5)
(5) 2 C
Images faint and poor — ~~b 1 (6)~~ g 2(6)
~~b n.s.~~ l′ n.s.

I 10439, Jan. 17, 1894
Extreme edge of plate — B1(5)
(5) 2C
~~b 1 (6)~~ g 4(6)
~~(6) 1 k~~ (6) 1 l′

I 10533, Jan. 22, 1894
Extreme edge of plate — B1 (5)
(5) 2 C
Too near edge to measure (6)

I 21426, Oct. 16, 1898
Near edge of plate — B1(5)
(5) 1 C
~~b 1 (6)~~ g 2(6)
~~(6) 1 k~~ (6) 3 l′

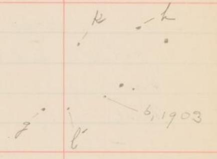
I 21667, Nov. 6, 1898
Spectrum plate Near edge — B1(5)
(5) 2 C
~~g 1 (6)~~ g 1(6)
~~(6) 1 b~~ (6) 3 l′
~~(6) 2 k~~

December 2, 1903

Superseded

5 and 6, 1903 Tauri Cont.

I 22096, Jan 1, 1899
B1(5)
(5) 2 C
~~k 1 (6)~~
~~(6) 1 l~~
g 2(6)
(6) 2 l′



5 and 6, 1903 Tauri -

Measures of Comparison Stars

Plate I 296

Var (5)	5.9	6.2
Var (6)		7.8
a	5.4	5.7
b	5.7	6.0
Images poor c	6.0	6.2
d	6.4	6.7
e		6.9
f		7.4
g		7.7
h		7.8
k		8.1
l		8.5
m		

Plate I 5211

Var (5)	~~5.9~~ 6.3	6.6
Var (6)		8.7
a	5.9	6.3
Focus poor running b	6.0	6.2
c	6.4	6.7
d	6.8	7.0
e		7.4
f		~~8.0~~ 7.9
g		8.2
h		8.4
k		8.8
l		9.1

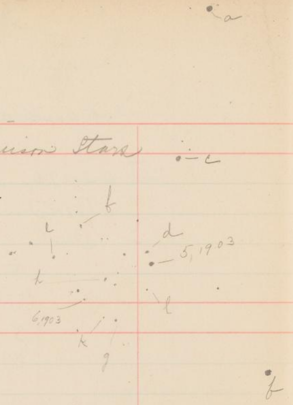


Plate I 28243

Omit c in determining the constant, as its light appears not to be perfectly steady

Focus of this plate poor

5 and 6, 1903 Tauri Continued

Plate I 24340, Dec. 28, 1899

Var. (5)	5.3	5.6
Var. (6)		7.4
a	~~5.0~~ 4.8	5.0
b	4.9	5.1
c	5.4	5.7
d	5.7	6.0
e	5.9	6.2
f	6.4	6.8
g	6.8	7.1
h	6.9	7.3
k		7.5
l		7.9

Plate I 28243

Var (5)	6.9	7.4
Var (6)		8.7
a	6.5	6.8
b	6.7	7.0
c	7.0	7.4
d		7.8
e		8.0
f		8.3
g		8.5
h		8.5
k		8.8
l		9.0

December 2, 1903

5, and 6, 1903 Tauri - Est. of Brightness

√ B222,
Too near edge for (5)
11.24 h 2(6) 11.$\overset{4}{8}$4 11.44 = 11.44 00 00
11.44 (6) 1 K 11.54

√ B220 Spectrum plate too faint

Very near edge √ B351
b 3(5)
(5) 1 C
11.24 h 1(6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2K 11.54

B341 Spectrum plate - too faint
B340 " " " "
B321 Too poor
B318 Spectrum plate - too faint
√ B1037 " " " "
√ B227 " " " "
√ B226
Near edge of plate Image poor
b 3(5)
(5) 1 C
11.24 $\overset{t}{g}$ 2(6) 11.44 11.44 = 11.~~44~~ 00 00
11.44 (6) 1 K 11.54
√ B2$\overset{40}{\cancel{26}}$
Trails
B1035 Spectrum. too faint

December 2, 1903

5 and 6, 1903 Tauri Cont.

B412 Spectrum - too poor
Near edge of plate √ B405
b 3(5)
(5) 1 c
11.24 h 1(6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2 K 11.54

√ B389 Too poor
√ B369
b 3(5)
(5) 1 c
11.24 h 2 (6) 11.44 11.44 = 11.44 00 00
11.44 (6) 1 K 11.54
√ B2285 Spectrum - too near edge

√ I319, Dec. 13, 1889
b 2(5)
(5) 2 c
11.54 K 1(6) 11.64 11.66 = 11.65 01 01
11.66 (6) 2 l 11.86
√ I396, Dec. 27, 1889
Near edge of plate
b 3(5)
(5) 0 c
(5) 4 d
11.24 h 1 (6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2 K 11.54

December 2, ~~1893~~ 1903

5 and 6, 1903 Tauri Cont

✓ I 246 Dec. 6, 1889
Too near edge

✓ I 3063, Feb. 13, 1891
Evidence edge of plate
b 3(5)
(5) 1 c
11.12 g 3(6) 11.42 11.24 11.44 = 11.37 05 13 07
11.24 (6) 0 h 11.24
11.44 (6) 1 k 11.54

✓ I 28243 Jan. 13, 1902
b 3(5)
(5) 1 c
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

✓ I 24340, Dec. 28, 1899
Images very bright. Comparison difficult
b 2(5)
(5) 0 c
(5) 5 d
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

✓ I 5211, Dec. 17, 1891
11.24 h 1(6) 11.34 11.24 = 11.29 05 05
11.24 (6) 3 k 11.54

b 2(5)
(5) 1 c

December 2, 1903

5 and 6, 1903 Cont

✓ I 296, Dec. 11, 1889
Comparison difficult.
a 4(5)
(5) 0 b
(5) 1 c
11.12 g 1(6) 11.22 11.04 = 11.13 09 09
11.04 (6) 2 h 11.24

✓ I 20057, Jan. 17, 1898
b 1(5)
(5) 1 c
11.12 g 1(6) 11.22 ~~11.24~~ 11.14 = 11.~~20~~ 18 ~~02~~ ~~04 06~~ 04 04
~~11.24 (6) 0 h 11.24~~ ~~to~~ omitted for reason see p. 213
11.14 (6) 4 k 11.54

✓ B 298 Spectrum plate – too faint
I 12150 Dec. 23, 1894 Sp. plate too faint

✓ I 5219, Dec 17, 1891
Too near edge

✓ I 19963, Jan. 5, 1898
Too poor

✓ I 2317, Nov. 20, 1890 Spectrum plate
Too near edge

✓ I 689, Feb. 20, 1890 Spectrum plate
Too near edge

✓ I 2720, Jan. 7, 1891 Spectrum plate
Too near edge

✓ I 23825, Oct. 16, 1899
Near edge Images poor
b 3(5)
(5) 2 c
11.12 g 2(6) 11.32 11.24 11.24 = 11.27 05 03 03
11.24 (6) 0 h 11.24
11.24 (6) 3 k 11.54

December 2, 1903

5, 6, 1903 Tauri Cont

Near edge of plate Images poor

√ I 22238, Jan. 26, 1899
b 3 (5)
(5) 2 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

√ I 26256, Dec. 17, 1900 Spectrum plate
b 3 (5)
(5) 1 c
Too faint for (6)

√ I 24219, Dec. 12, 1899
b 3 (5)
(5) 1 c

Image of (6) poor

10.84 f 3 (6) 11.14 11.12 11.04 11.10 04 02 06
11.12 (6) 0 g 11.12
11.04 (6) 2 h 11.24

Near edge of plate.

√ I 23830, Oct. 18, 1899
b 3 (5)
(5) 1 c

Images extremely faint and poor

11.12 g 2 (6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

Edge of plate

√ I 19887, Jan. 1, 1898
b 4 (5)
(5) 1 c

Comp. of (6) uncertain
Images poor

11.24 k 1 (6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2 k 11.54

December 2, 1903

5 and 6, 1903 Tauri Cont.

√ I 17312, Feb. 11, 1897
Too poor

Edge of plate
Images of (6) & Comp. stars ~~& [illegible]~~ faint

√ I 17325, Feb. 13, 1897
b 3 (5)
(5) 1 c
11.12 g 2 (6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

Edge of plate

√ I 17383, Feb. 19, 1897
b 3 (5)
(5) 2 c
10.84 f 3 (6) 11.14 11.12 11.04 = 11.10 04 02 06
11.12 (6) 0 g 11.12
11.04 (6) 2 h 11.24

Edge of plate
Images (6) very poor faint

√ I 20310, March 3, 1898
b 2 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

Edge of plate

√ I 21667, Nov. 6, 1898 Spectrum plate
b 3 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

December 2, 1903

5 and 6, 1903 Cont.

✓ I 22096, Jan. 1, 1899
b 3 (5)
(5) 1 c
11.24 h 1 (6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2 k 11.54

✓ I 29529, Nov. 7, 1902 Class S
b 3 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

✓ I 26474, Jan. 13, 1901
b 2 (5)
(5) 1 c
10.84 f 3 (6) 11.14 11.12 ~~11.04~~ = 11.~~10~~13 ~~040206~~ 01 01
11.12 (6) 0 g 11.12 For omission of h see note p. 213
~~11.04 (6) 2 h 11.24~~

✓ I ~~8018~~, 17609, March 16, 1897
Too near edge

✓ I 30791, Aug. 31, 1903
Too near edge

✓ I 26777, March 7, 1901
b 3 (5)
(5) 1 c
10.84 f 2 (6) 11.04 11.02 = 11.03 01 01
11.02 (6) 1 g 11.12

December 2, 1903

5 and 6, 1903 Cont.

✓ I 28227, Jan. 12, 1902
Too near edge

✓ I 16375, Oct. 27, 1896
Edge of plate. Images very poor
b 3 (5)
(5) 1 c
11.12 g 2 (6) 11.32 11.24 = 11.28 04 04
~~10.94~~ 11.24 (6) 3 k 11.~~2~~54
Image of h too poor for comparison

✓ I 14676, March 21, 1896
b 3 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

✓ I 26578, Feb. 7, 1901
Near edge of plate
b 1 (5)
(5) 0 c
(5) 4 d
10.84 f 4 (6) 11.24 11.12 11.04 = 11.13 8 11 01 09
11.12 (6) 0 g 11.12
11.04 (6) 2 h 11.24

✓ I 14198, Jan. 1, 1896
b 3 (5)
(5) 2 c
11.24 h 3 (6) 11.54 11.44 = 11.49 05 05
11.44 (6) 1 k 11.54

December 2, 1903

5 and 6, 1903 Cont.

√ I 20309, March 3, 1898
Too poor in reg. of var.

√ I 14527, Feb 25, 1896
b 3 (5)
(5) 1 c
Images too poor for (6)

√ I 26561, Feb. 6, 1901
b 1 (5)
(5) 0 c
(5) 4 d
1084 f 3 (6) 11.14 11.12 11.04 = 11.1$\overset{0}{8}$ 04 02 06
(6) 0 g 11.12
11.04 (6) 2 h 11.24

√ I 21426, Oct. 16, 1898
b 2 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

√ I 5220, Dec. 17, 1891
Too near edge

√ I 26357, Dec. 29, 1900
b 3 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

December 2, 1903

5 and 6, 1903 Cont.

√ I $1\overset{74}{\cancel{47}}03$ Feb. 24, 1897
b 2 (5)
(5) 0 c
(5) 4 d
~~h 1 (6)~~ 11.24 h 1 (6) 11.34 11.24 = 11.29 05 05
~~(6) 3 2 k~~ 11.24 (6) 3 k 11.54

√ I 3133, Feb. 22, 1891
b 2 (5)
(5) 1 c
Image of (6) too poor for comparison

√ I 21422, Oct. 15, 1898
b 2 (5)
(5) 1 c
11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

Extreme edge of plate

I 7935, Jan. 21, 1893
(5) normal
11.12 g 2 (6) 11.32 11.24 11.34 = 11.30 02 06 04
(6) 0 h 11.24
11.34 (6) 2 k 11.54

Images very poor

√ I 7951, Jan. 22, 1893
(5) normal
11.24 h 1 (6) 11.34 11.34 = 11.34 00 00
11.34 (6) 2 k 11.54

√ I 5640, Feb 15, 1892
(5) normal
11.12 g 2 (6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

December 2, 1903

5 and 6, 1903 Cont.

√
I 2081, Oct. 26, 1890
√ Too poor
I 5622, Feb. 13, 1892
(5) normal
11.12 g 3 (6) 11.42 11.44 = 11.43 01 01
11.44 (6) 1 K 11.54
L covered by a scratch
B 280
Too poor
√ B 263 Spectrum plate - too faint
√ B 251 " " " "
√ B 250
(5) normal
11.24 L 2 (6) 11.44 11.44 = 11.44 00 00
√ 11.44 (6) 1 K 11.54
I 2819, Jan. 14, ~~1901~~ 1891 Spectrum plate
Too faint
√ B 1093 Spectrum plate
Too faint
B 2538 Spectrum plate Too faint
B 277 " " " "
√ I 2510 " " Too near edge
√ I 2659, Dec. 29, 1890
(5) normal
11.24 L 2 (6) 11.44 11.34 = 11.39 05 05
11.34 (6) 2 K 11.54
I 5210
See page 177

Dec. 2, 1903

5 and 6, 1903 Cont.

√ B 244 Too near edge
√ I 10533, Jan. 22, 1894
Extreme edge of plate
(5) normal
(6) too. near edge
√
I 10439, Jan. 17, 1894
√ Too near edge
I 10260, Dec. 23, 1893
√ Too poor
I 10187, Dec. 17, 1893
(5) normal
11.12 g 2 (6) 11.32 11.24 11.24 = 11.2~~6~~7 0~~6~~5 03 03
(6) 0 L 11.24
11.24 (6) 3 K 11.54
√ I 7965, Jan. 25, 1893
(5) normal
Extreme edge
Too near edge for (6)
√ I 4759, Nov. 13, 1891
Class M not available
√ I 4705, Nov. 3, 1891
Too near edge
√ I 2324, Nov. 21, 1890
Too near edge
√ B 262,
(5) normal
11.17 g 3 (6) 11.42 11.24 11.24 = 11.30 12 16 06
(6) 0 L 11.24
11.24 (6) 3 K 11.54

December 3, 1903

5 and 6, 1903 Continued

Near edge Plate AC 3478, April 5, 1903
(5) normal
~~(6) too faint~~

Near edge AC 507, Nov. 7, 1899
(5) normal
~~(6) too faint~~

Near edge c faint? ✓ AC 518, Nov. 12, 1899
(5) normal
11.24 h 2(6) 11.44 11.44 = 11.44 00 00
11.44 (6) 1k 11.54

AC 3485, April 10, 1903
too poor

AC 2114, Dec. 27, 1901
too near edge

AC 1908, Oct. 25, 1901
~~Reg. not on plate~~

AC 3505, April 17, 1903
(5) normal
~~(6) too poor~~

AC 1427, Apr. 29, 1901
~~Too poor~~

✓ AC 2283, Feb. 6, 1902
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

AC 3370, Feb. 28, 1903
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

AC 3292, Feb. 13, 1903
(5) normal
~~(6) too poor~~

AC 3450, March 25, 1903
(5) normal
~~(6) too poor~~

AC 3230, Jan. 31, 1903
(5) normal
~~(6) too poor~~

✓ AC 1082, Dec. 22, 1900
(5) normal
11.12 g 2(6) 11.32 11.24 11.24 = 11.27 05 03 03
(6) o h 11.24
11.24 (6) 3k 11.54

AC 3456 March 29, 1903
(5) normal
~~(6) too poor~~

~~AC 1424, April 28, 1901~~
~~Too poor~~

~~AC 1259~~
~~Reg. not on plate~~

AC 3283, Feb. 12, 1903
(5) normal
~~(6) too poor~~

AC 3457, March 29, 1903
Too poor

AC 1003, Sept. 19, 1900
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Continued

AC 3219, Jan. 26, 1903
(5) normal
~~(6) too poor~~
AC 3458, March 29, 1903
✓ Too poor in reg. of
AC 2981, Nov. 7, 1902
(5) normal
Superseded entirely see p. 209 1084 f 36 11.14 11.12 ~~11.04~~ = 11.~~10~~ 13 ~~04 02 06~~ 01 01
~~(6) g 11.12~~ See p. 213
~~11.04 (6) 2h 11.24~~
AC 3462, March 31, 1903
(5) normal
✓ ~~(6) too poor~~
AC 2943, Oct. 28, 1902
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
✓ 11.14 (6) 1h 11.24
AC 2399, March 10, 1902
(5) normal
11.12 g 1(6) 11.22 ~~11.04 = 11.13 09 09~~
~~11.04 (6) 2h 11.24~~ For omission of h see note p. 213
AC 3541, April 24, 1903
Too poor
AC 3489, April 11, 1903
Too poor
✓ AC 2258, Jan. 30, 1902
(5) normal
11.12 g 2(6) 11.32 ~~11.14 = 11.23 09 09~~ 11.32
~~11.14 (6) 1h 11.24~~ For omission of h see note p. 213

December 3, 1903

5 and 6, 1903 Cont.

AC 3369, Feb. 28, 1903
(5) normal
~~(6) too poor~~
AC 3512, April 18, 1903
(5) normal
~~(6) too poor~~
AC 720, Feb. 18, 1900
(5) normal
~~(6) too poor~~
✓ AC 663, Jan. 6, 1900
(5) normal
11.12 g 1(6) 11.22 11.04 = 11.13 09 09
11.04 (6) 2h 11.24
AC 2404, March 12, 1902
(5) normal
~~(6) too poor~~
AC 3520, April 19, 1903
(5) normal
~~(6) too poor~~
✓ AC 2361, Feb. 23, 1902
b 2(5)
(5) 3c
11.24 h 1(6) 11.34 11.24 = 11.29 05 05
11.24 (6) 3k 11.54
✓ AC 644, Jan. 2, 1900 (Erythrosin)
(5) normal
Uncertain – 10.84 f 2(6) 11.04 11.02 = 11.03 01 01
Images poor 11.02 (6) 1g 11.12

December 3, 1903

5 and 6, 1903 Cont.

AC 2246, Jan. 25, 1902
(5) normal
~~(6) too poor~~

√ AC 2375, March 2, 1902
(5) normal
11.12 g 2 (6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

c faint? AC 3469, April 1, 1903
(5) normal
~~(6) too poor~~

AC 605 Dec. 16, 1899
√ Too poor

AC 2157, Jan. 3, 1902
(5) normal
11.12 g 2 (6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

AC 254, March 21, 1899
√ Too poor

AC 443, Sept 15, 1899
b 2 (5)
(5) 3 c
~~(6) too poor~~

√ AC 165, Jan. 18, 1899
Edge of plate (5) normal
Images very poor 11.12 g 1 (6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

December 3, 1903

5 and 6, 1903

AC 761, March 14, 1900
(5) normal
~~(6) too poor~~

~~AC 1442, March 14, 1900~~
Too poor

AC 82, Oct. 27, 1898
(5) normal
~~(6) too poor~~

AC 122, Dec. 15, 1898
(5) normal
~~(6) too poor~~

~~AC 220, Feb. 23, 1899~~
Too poor

AC 2070 Class C
~~AC 1088 " "~~
~~AC 5210, December 17, 1891~~

√ I 5210, Dec. 17, 1891
(5) normal
11.24 h 2 (6) 11.44 11.34 = 11.39 05 05
11.34 (6) 2 k 11.54

√ AC 1261, Feb. 19, 1901
(5) normal
Very doubtful 11.12 g 3 (6) 11.42 11.24 11.34 = 11.33 09 09 01
Images poor (6) 0 h 11.24
11.34 (6) 2 k 11.54

~~AC 1364, March 22, 1901~~
Too poor

December 3, 1903

5 and 6, 1903 Continued

AC 1385, March 30, 1901
(5) normal
~~(6) too poor~~

AC 1738, Sept. 11, 1901
(5) normal
~~(6) too poor~~

AC 1786, Sept. 25, 1901
(5) normal
~~(6) too poor~~

AC 1845, Oct. 7, 1901
(5) normal
~~(6) too poor~~

AC 1854, Oct. 8, 1901
(5) normal
~~(6) too poor~~

AC 3237, Feb. 20, 1903
(5) normal
~~(6) too poor~~

AC 2113, Dec. 27, 1901
(5) normal
~~(6) too poor~~

√ AC 2124, Dec. 31, 1901
(5) normal
Near edge. 10.36 l 4 (6) 10.76 10.74 = 10.75 01 01
Images poor 10.74 (6) 1 f 10.84

AC 1308, Feb. 28, 1901
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

AC 1319, March 6, 1901
(5) normal
~~(6) too poor~~

AC 1329, March 7, 1901
(5) normal
~~(6) too poor~~

AC 1742, Sept. 13, 1901
(5) normal
~~(6) too poor~~

AC 1838, Oct. 6, 1901
(5) normal
~~(6) too poor~~

AC 1897, Oct. 23, 1901
(5) normal
~~(6) too poor~~

AC 1178, Jan. 6, 1901
c faint? (5) normal
~~(6) too poor~~

~~AC 1208, Feb. 6, 1901~~
Too poor

√ AC 1245, Feb. 13, 1901
(5) normal
11.12 g 4 (6) 11.52 11.34 = 11.43 09 09
Corner of plate 11.$\overset{3}{\cancel{8}}$4 (6) 2 k 11.$\overset{5}{\cancel{8}}$4
Images of k not comparable - poor focus

~~AC 1997, Nov. 21,~~ 1901.
Reg. not on plate

5 and 6, 1903 Cont.

~~AC 117, Dec. 11, 1898~~
Trails
~~AC 119, Dec. 14, 1898~~
Trails
AC 158, Jan. 17, 1899
(5) normal
~~(6) too poor~~
√ AC 164, Jan. 18, 1899
(5) normal
Images poor 11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 l 11.24
AC 479, Oct. 12, 1899
(5) normal
~~(6) too poor~~
√ AC 566, Dec. 4, 1899
(5) normal
11.12 g 4(6) 11.52 11.~~24~~54 11.~~04~~36 = 11.~~27~~47 ~~25~~05 ~~03~~07 ~~23~~41
(6) 0 k 11.~~24~~54
11.~~04~~36 (6) 5 l 11.~~54~~86
l as faint as k
~~AC 264, Dec. 27, 1899~~
Class C
√ AC 650, Jan. 3, 1900
(5) normal
Comp. difficult. 11.12 g 1(6) 11.22 11.14 = 11.18 04 04
Near edge 11.14 (6) 1 l 11.24
AC 6~~7~~69, Jan. 8, 1900
(5) normal
11.12 g 1(6) 11.22 11.04 = 11.13 09 09
11.04 (6) 2 l 11.24

---

5 and 6, 1903 Cont.

AC 1047, Dec. 11, 1900
(5) normal
~~(6) too poor~~

AC 1190, Feb. 1, 1901
(5) normal
~~(6) too poor~~

~~AC 1244, Feb. 11, 1901~~
Too poor
√ AC 2372, March 1, 1902
(5) normal
Edge of 11.12 g 1(6) 11.22 11.24 = 11.23 01 01
plate, Im- 11.24 (6) ~~l~~ 3 k 11.54
ages faint & poor l fainter than k :- k 1 l
k 2 l
AC 2433, March 26, 1902
(5) normal
~~(6) too poor~~
√ AC 2930, Oct 23, 1902
Edge of (5) normal
plate - Im- 10.84 f 2(6) 11.04 11.02 = 11.03 01 01
ages poor 11.02 (6) 1 g 11.12 l normal?
√ AC 2982, Nov. 7, 1902
(5) normal
11.12 g 3(6) 11.42 11.34 = 11.38 04 04
√ 11.34 (6) 2 k 11.54 l not comparable
AC 3089, Dec. 20, 1902
(5) normal
11.24 l 1 (6) 11.34 11.24 = 11.29 05 05
11.24 (6) 3 k 11.54

December 3, 1903

5 and 6, 1903 Continued

✓
AC 3129, Dec. 31, 1902
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
✓ 11.14 (6) 1 h 11.24
AC 3212, Jan. 23, 1903
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24
~~AC 3266, Feb. 9, 1903~~
~~Too poor~~
AC 3300, Feb. 14, 1903
(5) normal
~~(6) too poor~~
Images poor & bright! AC 3347, Feb. 23, 1903
(5) normal
~~(6) too poor~~
~~AC 3412 March 12, 1903~~
Too poor
~~AC 3955, Sept. 19, 1903~~
Reg. not on plate
~~AC 108, Dec. 7, 1898~~
Trails
~~AC 1066, Dec. 17, 1900~~
Too near edge
~~AC 622 Dec. 26, 1899~~
Class C

December 3, 1903

5 and 6, 1903 Cont.

~~AC 431, Sept. 13, 1899~~
~~Too near edge~~

~~AC 73, Oct. 24, 1898~~
~~Too near edge~~
✓ AC 1952, Nov. 3, 1901
(5) normal
10.84 f 3 (6) 11.14 11.12 11.04 = 11.10 04 02 06
(6) 0 h g 11.12
11.04 (6) 2 h 11.24
✓ AC 2033, Dec. 1, 1901
(5) normal
11.12 g 2(6) 11.32 11.24 = 11.28 04 04
(6) 0 h 11.24
Im. of R defective
AC 2091, Dec. 20, 1901
(5) normal
~~(6) too poor~~
✓
AC 2176, Jan. 10, 1902
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24
AC 2228, Jan. 23, 1902
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

✓ AC 2262, Feb. 3, 1902
(5) normal
11.12 g 2(6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

✓ AC 2308, Feb. 10, 1902
(5) normal
11.12 g 2(6) 11.32 11.24 = 11.28 04 04
11.24 (6) 3 k 11.54 h faint (?)

✓ AC 3337, Feb. 22, 1903
(5) normal
11.12 g 1(6) 11.$\overset{2}{8}$2 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

✓ AC 2862, Oct. 6, 1902
(5) normal
11.24 h 2(6) 11.44 11.34 = 11.39 05 05
11.34 (6) 2 k 11.54

AC 3984, Sept. 24, 1903
~~Too m~~
(5) normal
~~(6) too poor Images~~

~~AC 3446~~, March 20, 1903
Too poor

Centre of plate ✓ AC 3378, March 1, 1903
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

December 3, 1903

5 and 6, 1903 Cont.

AC 3496, April 12, 1903
(5) normal
~~(6) too poor~~

✓ AC 2309, Feb. 10, 1902
(5) normal Image poor and defective
Images poor 11.12 g 2(6) 11.32 11.24 11.24 = 11.27 05 03 03
(6) 0 k 11.24
11.24 (6) 3 k 11.54

✓ AC 1272, Feb. 21, 1901
(5) normal
11.12 g 3(6) 11.42 11.34 = 11.38 04 04
11.34 (6) 2 k 11.54
h not easy to compare

✓ AC 1328, March 7, 1901
(5) normal
10.84 f 1(6) 10.94 10.92 = 10.93 01 01
10.92 (6) 2 g 11.12

AC 1369, March 23, 1901
(5) normal
~~(6) too poor~~

~~AC 1077, Dec. 18, 1900~~
Too poor

✓ AC 1101, Dec. 28, 1900
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

5 and 6, 1903

√ AC 1110, Dec. 29, 1900
(5) normal
11.12 g 1(6) 11.22 11.14 = 11.18 04 04
11.14 (6) 1 h 11.24

~~AC 2493, April 19, 1902~~
Too poor

√ AC 2398, March 10, 1902
(5) normal
Uncertain. 10.84 f 2(6) 11.04 11.02 = 11.03 01 01
Images very poor 11.02 (6) 1 g 11.12

AC 2931, Oct. 24, 1902
(5) normal
(6) images too poor

√ AC 152, Jan. 11, 1899
b 2(5)
(5) 3 c
10.84 f 3(6) 11.14 11.12 11.14 = 11.13 01 01 01
(6) 0 g 11.12
11.14 (6) 4 k 11.54 h faint

~~AC 1142, Jan. 8, 1901~~
Too poor

AC 256, March 24, 1899
d bright (?) (5) normal
~~(6) too poor~~

AC 2960, Oct. 31, 1902
(5) normal
11.12 g 2(6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

5 and 6, 1903

AC 3284, Feb. 12, 1903
(5) normal
~~(6) too poor~~

AC 3449, March 25, 1903
c faint? (5) normal
~~(6) too poor~~

AC 219, Feb. 23, 1899
(5) normal
~~(6) too poor~~

√ AC 1216, Feb. 7, 1901
(5) normal
11.24 h 1(6) 11.34 11.24 = 11.29 05 05
11.24 (6) 3 k 11.54

AC 63, Oct. 16, 1898
(5) normal
~~(6) too poor~~

AC 499, Nov. 5, 1899
(5) normal
~~(6) too poor~~

AC 1132, Jan. 5, 1901
Too poor

√ AC 2390 March 6, 1902
b 2 (5)
(5) 3 c
11.12 g 3(6) 11.42 11.34 = 11.38 04 04
11.34 (6) 2 k 11.54 h faint

December 3, 1903

5 and 6, 1903 Cont.

Am 1810, Jan. 20, 1903
(5) normal
~~(6) too poor~~
Am 1705, Nov. 24, 1902
(5) normal
~~(6) too poor~~
✓ Am 1610, Oct. 6, 1902
(5) normal
11.12 g 1(6) 11.22 ~~11.04 = 11.13 09 09~~
~~11.04 (6) 2 h 11.24~~ For omission see p. 273
Am 1559, Sept. 22, 1902
f 2 (5)
(5) 3 c
~~(6) too poor~~
Am 708, Nov. 1, 1900
(5) normal
~~(6) too poor~~
✓ Am 1646, Oct. 11, 1902
(5) normal
11.14. ~~23~~ 2 .09 .09
11.12 g 2(6) 11.32 ~~11.24~~ ~~11.14~~ = 11.83 ~~09 01 09~~
~~(6) 0 b 11.24~~ see p. 213
11.14 (6) 4 k 11.54
Am 1723, Nov. 26, 1902
f 2 (5)
(5) 3 c
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

Am 178, Sept. 29, 1899
(5) normal
~~(6) too poor~~
Am 1683, Nov. 7, 1902
(5) normal
~~(6) too poor~~
✓ Am 315, Nov. 23, 1899
(5) normal
10.84 f 3(6) 11.14 11.12 10.94 = 11.07 07 05 813
(6) 0 g 11.12
10.94 (6) 3 h 11.24
Am 187, Sept. 30, 1899
(5) normal
~~(6) too poor~~
Am 269 too badly broken to be mended

Am 1580, Sept. 26, 1902
(5) normal
✓ Am 717, Nov. 13, 1900
(5) normal
11.12 g 1(6) 11.22 11.04 = 11.213 09 09
11.04 (6) 2 h 11.24
Am 222, Oct. 13, 1899
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

AC 1616, Oct. 7, 1902
(5) normal
~~(6) too poor~~

AM 674, Sept. 19, 1900
(5) normal
~~(6) too poor~~

AM 337, Dec. 2, 1899
(5) normal
~~(6) too poor~~

AM 170, Sept. 27, 1899
(5) normal
~~(6) too poor~~

AM 1108, Nov. 4, 1901
(5) normal
~~(6) too poor~~

√
AM 1636, Oct. 10, 1902
(5) normal
8 04 .04
11.12 g 2(6) 11.32 ~~11.24~~ 11.24 = 11.2~~7~~ ~~05~~ 0303
~~(6) 2 h 11.24~~ For omission see p. 213
11.24 (6) 3 k 11.54

AM 348, Dec. 5, 1899
(5) normal
~~(6) too poor~~

AM 726, Nov. 23, 1900
(5) normal
~~(6) too poor~~

December 3, 1903

5 and 6, 1903 Cont.

AM 1311, Dec. 5, 1901
(5) normal
~~(6) too poor~~

AM 261, Oct. 28, 1899
(5) normal
~~(6) too poor~~

√ AM 698, Oct. 16, 1900
(5) normal
11.12 g 2(6) 11.32 11.14 = 11.23 09 09
11.14 (6) 1 h 11.24

√ AM 252, Oct. 26, 1899
(5) normal
11.12 g 4(6) 11.52 11.34 = 11.43 09 09
11.34 (6) 2 k 11.54 Im. of h not comparable

√ AM 1520, Aug. 23, 1902
(5) normal
Images very poor
10.36 e 3(6) 10.66 10.64 = 10.65 01 01
10.64 (6) 2 f 10.84

On all AC and AM plates the comparisons for (6) are open to more or less uncertainty. The field is usually rather near the edge of the plate. The images are always faint and usually difficult to compare.

The comparisons for (5) are usually excellent. The light appears to shine very steadily.

Comparison star h appears to fluctuate somewhat, not to exceed two tenths of a magnitude.

December 5, 1903

5 and 6, 1903 Continued

√
Plate I 4986, December 7, 1891
(5) normal
(6) too near edge

√ A 4071, Oct. 14, 1899
~~(5)~~ (5) normal
10.84 f 2 (6) 11.04 11.02 = 11.03 01 01
11.02 (6) 1 g 11.12

√ A 4032, Oct. 11, 1899
(5) normal
10.84 f 2 (6) 11.04 11.02 = 11.03 01 01
11.02 (6) 1 g 11.12
Examined with reading glass

√ I 10368, June 2, 1894
(5) normal
11.12 g (6) 11.22 11.04 = 11.13 09 09
11.04 (6) 2 h 11.24

√ I 4987, Dec. 7, 1891
Too near edge

√
Edge of plate I 13966, Nov. 30, 1895
(5) normal
Image of (6) defective

Dup.
AC 4263 Nov. 20, 1903
(5) normal
11.12 g 1 (6) 11.22 11.04 = 11.13 09 09
11.04 (6) 2 h 11.24

December 22, 1903

5 and 6, 1903 Tauri Cont.

√ I 23825, Oct. 16, 1897
"5" normal
11.12 g 2 (6) 11.32 11.24 = 11.28 04 04
11.24 (6) 3 k 11.54
10.84 f 3 h 11.14 11.12 11.04 = 11.10 04, 02, 06
√ h 0 g 11.12
11.04 h 5 k 11.54

√ I 2538, Dec. 19, 1890 Spectrum plate
(5) normal
√ (6) too faint

√ I 171, Nov 22 1889
(5) normal
(6) too faint

√ B 025
√ Too faint

√ AC 552, Nov. 24, 1899
Near edge (5) normal
√ (6) too poor

√
near edge AC 3447, March 20, 1903
√ Too poor in reg. of var.

√ AC 3905, Sept. 7, 1903
√ Too poor in reg. of var.

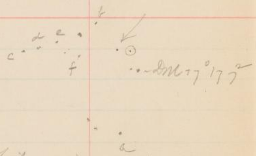
√ AC 3387, March 2, 1903
√ Too poor in reg. of var.

Cont p. 196

December 12, 1903

Examination of plates for Star at $7^h 26^m 40^s.7$ +7° 14'.3 (1855) near DM + 7° 1772 Suspected variable by Mr. Wendell

I 4935	Dec. 1, 1891
8150	Feb. 8, 1893
10327	Dec. 28, 1893
12023	Dec. 5, 1894
28437	Feb. 7, 1902
24971	Mar. 28, 1900
22104	Jan. 1, 1899
23877	Oct. 20, 1899
26826	Mar. 23, 1901
17494	Mar. 10, 1897
19231	Oct. 9, 1897
29925.	Jan. 31, 1903



Film side up

The star marked on chart ⊙ is assumed to be Mr. Wendell's star. It always appears about two grades fainter than d, about equal to e and 5 grades brighter than f. The star preceding, with the arrow pointing to it, is always about 3 grades fainter than a and about equal to b and to c. I find no evidence of variation in any star near DM + 7° 1772

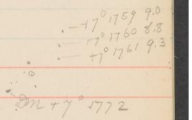
Wrong star observed

December 12, 1903

Exam. of Plates for Star at $7^h 26^m 40^s.7$ +7° 4'.3 (1855) near DM + 7° 1772 Susp. Var. by Mr. Wendell

Plates on Opp. Page, also;

AC 1271,	Feb. 21, 1901
AM 1195	Apr. 9, 1902
AM 1166	Apr. 1, 1902
AM 1127	Dec. 4, 1901
AM 434,	Apr. 11, 1900
AC 1149,	Jan. 16, 1901
AM 457,	May 8, 1900
AC 4132,	Oct. 29, 1903
AC 4100,	Oct. 28, 1903



On the I plates and on the first 6 AC and AM plates, the star appears to be about one or two grades fainter than DM + 7° 1760 $8^m.8$ and about ~~four~~ three grades brighter than DM + 7° 1761. On the last three plates it appears as bright as DM + 7° 1760 or a grade brighter.

December 22, 1903

"5 and 6, 1903" Cont. from p. 193

√ AC 3320, Feb. 19, 1903

Near edge. Images poor

(5) normal

10.84 f 2 v 11.04 11.02 = 11.03 01 01

11.02 v 1 g 11.12

√ 11.12 g 1 h 11.22 11.24 = 11.23 01 01

11.24 h 3 k 11.54

√ AC 3305, Feb. 17, 1903

Near edge of plate

(5) normal

11.12 g 1 (6) 11.22 11.14 = 11.18 04 04

11.14 (6) 4 k 11.54

√ 11.54 k 1 h 11.64 11.56 = 11.60 04 04

11.56 h 3 l 11.86

√ AC 3225, Jan. 30, 1903

(5) normal

√ ~~(6) too poor~~

√ AC 2960, Oct. 31, 1902

Near edge of plate

(5) normal

11.12 g 2 (6) 11.32 11.34 = 11.33 01 01

11.34 (6) 2 k 11.54

11.12 g 3 h 11.4~~3~~2 11.44 = 11.4~~4~~3 01 ~~00~~01.

√ 11.44 h 1 k 11.54

√ AC 2953 Oct. 30, 1902

Near edge of plate

(5) normal

11.12 g 3 (6) 11.42 11.34 = 11.38 04 04

11.34 (6) 2 k 11.54

√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04

11.44 h 1 k 11.54

December 22, 1903

5 and 6, 1903 Cont.

√ AC 1793, Sept. 26, 1901

(5) normal

√ (6) too poor

√ AC 2057, Dec. 5, 1901

Near edge of plate

(5) normal

faint!

11.12 g 3 (6) 11.4~~3~~2 11.44 = 11.4~~4~~3 01 ~~00~~01

11.44 (6) 1 k 11.54

11.47 8 6 6 05 07 11

√ 11.12 g 4 h 11.5~~4~~2 . 11.54 11.36 = 11.4~~8~~ ~~08~~ ~~08~~ ~~12~~

h 0 k 11.54

11.36 h 5 l 11.86

√ AC 208~~4~~5, Oct. 9, 1902

near edge of plate

(5) normal

11.24 (~~4~~) 3 k 11.54 = 11.24

Image of g defective

√ AC 2352, Feb. 20, 1902

√ Too poor

√ AC 2174, Jan. 9, 1902

(5) normal

√ (6) too poor

√ AC 1894, Oct. 21, 1901

(5) normal

√ (6) too poor

√ AC 1779, Sept. 24, 1901

(5) normal

√ (6) too poor

December 22, 1903

5 and 6, 1903

Near edge of plate

√ AC 1270, Feb. 21, 1901

(5) normal

11.12 g 1(6) 11.22 11.24 = 11.23 01 01

11.24 (6) 3 k 11.54

√ 11.12 g 2 L 11.32 11.34 = 11.33 01 01

11.34 L 2 k 11.54

√ AC 763, March 16, 1900

(5) normal

√ (6) too poor

√ AC 627, Dec. 28, 1899

Fails Class C

√ AC 613, Dec. 20, 1899

(5) normal

√ (6) too poor

Near edge of plate

√ AC 652 Jan. 3, 1900

(5) normal

√ (6) too poor

√ AC 447, Sept. 16, 1899

(5) normal

√ (6) too poor

December 23, 1903

6, 1903 Tauri and Comp. Star L

See note p. 213

√ I 5640, Feb. 15, 1892

11.12 g 3(6) 11.42 11.34 = 11.38 04 04

11.34 (6) 2 K 11.54

2 8 04 04

√ 11.12 g 4 L 11.5~~4~~ 11.44 = 11.4~~9~~ ~~05 05~~

11.44 L 1 K 11.54

√ I 296, Dec. 11, 1889

11.12 g 1(6) 11.22 11.14 = 11.18 04 04

11.14 (6) 4 K 11.54

√ 11.12 g 3 L 11.42 11.34 = 11.38 04 04

11.34 L 2 K 11.54

√ B 222

11.12 g 5 (6) 11.62 11.54 11.46 = 11.54 0~~6~~8 00 08

(6) 0 K 11.54

11.46 (6) 4 L 11.86

√ 11.12 g 2 L 11.32 11.24 = 11.28 04 04

11.24 L 3 K 11.54

Near edge of plate. Images poor

√ I 17383, Feb. 19, 1897

10.84 f 2 v 11.04 11.02 = 11.03 01 01

11.02 v 1 g 11.12

√ 11.12 g 3 L 11.42 11.44 = 11.43 01 01

11.44 L 1 K 11.54

√ I 5211, Dec. 17, 1891

2 8 04 04

11.12 g 4 v 11.5~~4~~ 11.44 = 11.4~~9~~ ~~05 05~~

11.44 v 1 K 11.54

√ 11.12 g 3 L 11.42 11.34 = 11.38 04 04

11.34 L 2 K 11.54

Dec. 23, 1903

6, 1903 and Comp. Star h Cont

Near edge
Images bright
Companion dif-
ficult

√ I 396, Dec. 27, 1889
11.12 g 1 v 11.22 11.34 = 11.28 06 06
11.34 v 2 k 11.54
√ 11.12 g 1 h 11.22 11.34 = 11.28 06 06
11.34 h 2 k 11.54

√ I 2659, Dec. 29, 1890
11.12 g 3 v 11.42 11.34 = 11. 38 04 04
11.34 v 2 k 11.54
√ 11.12 g 2 h 11.32 11.24 = 11.28 04 04
11.24 h 3 k 11.54

√ I 5210, Dec. 17, 1891
11.12 g 4 v 11.52 11.44 = 11.48 04 04
11.44 v 1 k 11.54
√ 11.12 g 4 h 11.52 11.34 = 11.43 09 09
11.$\overset{3}{\cancel{4}}$4 h 2 k 1154

Images
very poor

√ I 7951, Jan. 22, 1893
11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01
11.44 h 1 k 11.54

I 10187, Dec. 17, 1893
11.12 g 3 v 11.42 11.34 = 11.38 04 04
11.34 v 2 k 11.54
√ 11.12 g 2 h 11.32 11.24 = 11.28 04 04
11.24 h 3 k 11.54

December 23, 1903

6, 1903 and Comp. Star h Cont

Near Edge of
Plate - Im-
ages poor

√ I 17325, Feb. 13, 1897
11.12 g 3 v 11.42 11.44 = 11.43 01 01
11.44 v 1 k 11.54
√ 11.54 k 1 h 11.64 11.46 = 11.55 09 09
11.46 h 4 l 11.86

√ B 226
11.12 g h 4 v 11.52 11.54 11.36 = 11.~~44~~ 47 ~~08 10~~ 05 07 11
v 0 k 11.54
11.36 v 5 l 11.86
√ 11.54 k 1 h 11.64 11.46 = 11.55 09 09
11.46 h 4 l 11.86

√ I 29529, Nov. 7, 1902 Class S
11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01
11.44 h 1 k 11.54

√ I 26578, Feb. 7, 1901
11.12 g 1 v 11.22 11.14 = 11.18 04 04
11.14 v 4 k 11.54
√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

√ I 17403, Feb. 24, 1897
10.84 f 3 v 11.14 11.12 11.14 = 11.13 01 01 01
v 0 g 11.12
11.14 v 4 k 11.54
√ 11.12 g 2 h 11.32 11.34 = 11. 33 01 01
11.34 h 2 k 11.54

December 23, 1903

"6,1903" and Comp. Stars h Cont

√ B 250

11.12 g 4 v 11.52 11.44 = 11.48 04 04

11.44 v 1 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√ Edge of plate I 19889, Jan 1, 1898

11.12 g 2 v 11.32 11.34 = 11.33 01 01

11.34 v 2 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√ Edge of plate I 10368, June 2, 1894

11.12 g 1 v 11.22 11.24 = 11.23 01 01

11.24 v 3 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√ Edge of plate I 20310, March 3, 1898

11.12 g 1 v 11.22 11.24 = 11.23 01 01

11.24 v 3 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√ I 26561, Feb. 6, 1901

11.12 g 1 v 11.22 11.14 = 11.18 04 04

11.14 v 4 k 11.54

√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04

11.44 h 1 k 11.54

√ B 262

11.12 g 3 v 11.42 11.34 = 11.38 04 04

11.34 v 2 k 11.54

√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04

11.44 h 1 k 11.54

Dec. 23, 1903

6,1903 – Comp. Stars h Cont

√ I 21422, Oct. 15, 1898

11.12 g 1 v 11.22 11.24 11.23 01 01

11.24 v 3 k 11.54

√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01

11.34 h 2 k 11.54

√ I 14198, June 1, 1896

11.12 g 5 v 11.62 11.54 11.46 = 11.54 08 00 08

v 0 k 11.54

11.46 v 4 l 11.86

√ 11.12 g 2 h 11.32 11.24 = 11.28 04 04

11.24 h 3 k 11.54

√ Corner of plate I 14676, March 21, 1896

~~g h 3 v~~

~~v 2 k~~

11.12 g 1 v 11.22 11.24 = 11.23 01 01

11.24 v 3 k 11.54

√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01

11.34 h 2 k 11.54

√ Edge of plate B 351,

11.12 g 3 v 11.42 11.44 = 11.43 01 01

11.44 v 1 k 11.54

√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01

11.34 h 2 k 11.54

√ Near edge of plate. Comp. very uncertain I 21667, Nov. 6, 1898 Spectrum plate

10.84 f 2 v 11.04 11.02 = 11.03 01 01

11.02 v 1 g 11.12

√ 11.12 g 1 h 11.22 11.34 = 11.28 06 06

11.34 h 2 k 11.54

December 23, 1903

6, 1903 and Comp. Star h Cont.

√ I 21426, Oct. 16, 1898

11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 3 h 11.4~~3~~2 11.44 = 11.4~~4~~3 01 ~~00~~01
11.44 h 1 k 11.54

√ I 26357, Dec. 29, 1900

11.12 g 1 v 11.22 11.24 = 11.23 01 01
11.24 v 3 k 11.54
√ 11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

√ B 369,

11.12 g 4 v 11.5~~4~~2 11.44 = 11.4~~9~~8 ~~05~~04 ~~05~~04
11.44 v 1 k 11.54
√ 11.12 g 3 h 11.42 11.34 = 11.38 04 04
11.34 h 2 k 11.54

√ I 24340, Dec. 28, 1899

11.12 g 1 v 11.22 11.24 = 11.23 01 01
11.24 v 3 k 11.54
√ 11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

Edge of plate
Images poor
Obs. uncertain

√ I 23830, Oct. 18, 1899

11.12 g 3 v 11.42 11.44 = 11.43 01 01
11.44 v 1 k 11.54
11.12 g 4 h 11.52 11.54 11.46 = 11.51 01 03 05
√ h 0 k 11.54
11.46 h 4 l 11.86

December 23, 1903

6, 1903 = Comp. Star h Cont.

√ I 22096, Jan. 1, 1899

11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 3 h 11.4~~3~~2 11.44 = 11.4~~4~~3 01 ~~00~~01
11.44 h 1 k 11.54

Edge of
plate
Obs. very
doubtful

√ I 22238, Jan. 26, 1899

11.12 g 3 v 11.42 11.44 = 11.43 01 01
11.44 v 1 k 11.54
√ 11.12 g 4 h 11.52 11.54 11.46 = 11.51 01 03 05
h 0 k 11.54
11.46 h 4 l 11.86

√ I 24219, Dec. 12, 1899

11.12 g 1 v 11.22 11.24 = 11.23 01 01
11.24 v 3 k 11.54
√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

Edge of
plate
Images very
poor

√ I 3063, Feb. 13, 1891

11.12 g 4 v 11.52 11.44 = 11.48 04 04
11.44 v 1 k 11.54
√ 11.12 g 4 h 11.5~~4~~2 11.44 = 11.48 04 04
11.44 h 1 k 11.54

√ AC 2176, Jan. 10, 1902

10.84 f 3 v 11.14 11.12 11.04 = 11.10 04 02 06
f v 0 g 11.12
11.04 v 5 k 11.54
√ 11.12 g 2 h 11.32 11.24 = 11.28 04 04
11.24 h 3 k 11.54

"6, 1903" + Comp. Star L Cont,

√ AC 2033, Dec. 1, 1901
11.12 g 3 v 11.42 11.44 = 11.43 01 01
11.44 v 1 k 11.54
√ 11.12 g 4 L 11.52 11.54 11.56 = 11.54 02 00 02
X L 0 k 11.54
11.56 L $\overset{3}{5}$ l 11.86

√ AC 1261, Feb. 19, 1901
11.12 g 4 v 11.52 11.44 = 11.48 04 04
11.44 v 1 k 11.54
√ 11.12 g 4 L 11.52 11.44 = 11.48 04 04
11.44 L 1 k 11.54
Image of k poor. Comparison difficult

√ AC 1952, Nov. 3, 1901
11.12 g 1 v 11.22 11.24 = 11.23 01 01
11.24 v 3 k 11.54
√ 11.12 g 3 L 11.42 11.44 = 11.43 01 01
11.44 L 1 k 11.54

Near edge √ AC 3337, Feb. 22, 1903
√ Image too poor

AC 3378, March 1, 1903
11.2 g 2 v 11.32 11.24 = 11.28 04 04
11.24 v 3 k 11.54
√ 11.12 g 3 L 11.42 11.34 = 11.38 04 04
11.34 L 2 k 11.54

Isochromatic √ AC 650, Jan. 3, 1900
1084 f 2 v 11.04 11.12 11.24 = 11.13 09 01 11
11.12 g 0 v
11.24 v 3 k 11.54
√ 11.12 g 3 L 11.42 11.54 11.46 = 11.47 05 07 01
L 0 k 11.54
11.46 L 4 l 11.86

6, 1903 + Comp. Star L cont

√ AC 1101, Dec. 28, 1900
11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 3 L 11.$\overset{4}{\cancel{3}}$2 11.44 = 11.43 01 01
11.44 L 1 k 11.54

√ AC 3129, Dec. 31, 1902
11.12 g 1 v 11.22 11.24 = 11.23 01 01
11.24 v 3 k 11.54
√ 11.12 g 2 L 11.32 11.34 = 11.33 01 01
11.34 L 2 k 11.54

√ AC 3089, Dec. 20, 1902
11.12 g 2 v 11.32 11.34 = 11.33 01 01
11.34 v 2 k 11.54
√ 11.12 g 2 L 11.32 11.34 = 11.33 01 01
11.34 L 2 k 11.54
Image of k has sharp focus and is diff. to Compare

√ AC 3212, Jan. 23, 1903
10.84 f 3 v 11.14 11.12 11.14 = 11.13 01 01 01
v 0 k g 11.12
11.14 v 4 k 11.54
√ 11.12 g 1 L 11.22 11.24 = 11.23 01 01
11.24 L 3 k 11.54

√ AC 1216, Feb. 7, 1901
11.12 g 3 v 11.42 11.44 = 11.43 01 01
11.44 v 1 k 11.54
√ 11.12 g 2 L 11.32 11.34 = 11.33 01 01
11.34 L 2 k 11.54

Dec. 23, 1903

6, 1903 σ Comp Stars h Cont.

Near edge of plate √AC 2309, Feb. 10, 1902

11.12 g 3 v 11.42 11.44 = 11.43 01 01

11.44 v 1 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√AC 2262, Feb. 3, 1902

11.12 g ~~2~~3 v 11.42 11.34 = 11.38 04 04

11.34 v 2 k 11.54

√ 11.12 g 3 h 11.42 11.34 = 11.38 04 04

11.34 h 2 k 11.54

√AC $\overset{2}{3}$862, Oct. 6, 1902

11.12 g 4 v 11.52 11.54 11.36 = 11.4~~4~~7 0~~8~~5 0~~8~~7 11

v 0 k 11.54

11.36 v 5 l 11.86

√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01

11.34 h 2 k 11.54

√AC 2943, Oct. 8, 1902

11.12 g 2 v 11.32 11.34 = 11.33 01 01

11.34 v 2 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√AC 2375 March 2, 1902

11.12 g 3 v 11.42 11.44 = 11.43 01 01

11.44 v 1 k 11.54

√ 11.12 g 4 h 11.52 11.54 11.46 = 11.51 01 03 05

h 0 k 11.54

11.46 h # l 11.86

December 23, 1903

6, 1903 σ Comp Star h

Near edge Images poor √AC 1110, Dec. 29, 1900

11.12 g 1 v 11.22 11.24 = 11.23 01 01

11.24 v 3 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

√AC 663, Jan. 6, 1900

10.84 f 3 v 11.14 11.12 11.14 = 11.13 01 01 01

v 0 g 11.12

11.14 v 4 k 11.54

√ 11.54 k 1 h 11.64 11.56 = 11.60 04 04

11.56 h 3 l 11.86

√AC 165, Jan. 18, 1899

√ Near edge. Images too poor

√AC 2981, Nov. 7, 1902

10.84 f 3 v 11.14 11.12 11.14 = 11.13 01 01 01

v 0 g 11.12

11.14 v 4 k 11.54

11.12 g 3 h 11.42 11.44 = 11.43 01 01

√ 11.44 h 1 k 11.54

√AC 1082, Dec. 22, 1900

11.12 g 2 v 11.32 11.34 = 11.33 01 01

11.34 v 2 k 11.54

√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01

11.44 h 1 k 11.54

Focus of k sharp. Comp. difficult √AC 164, Jan. 18, 1899

11.12 g 3 v 11.42 11.54 11.36 = 11.4~~5~~4 0~~8~~2 ~~09~~10 08

v 0 k 11.54

11.36 v 5 l 11.86

√ 11.12 g 2 h 11.32 11.44 = 11.38 06 06

11.44 h 1 k 11.54

December 23, 1903

6, 1903 + Comp. Star h Cont

√ AC 2361, Feb. 23, 1902
11.12 g 3 r 11.42 11.44 = 11.43 01 01
11.44 r 1 k 11.54
√ 11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

√ AC 2157, Jan. 3, 1902
11.12 g 3 r 11.42 11.34 = 11.38 04 04
11.34 r 2 k 11.54
√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

√ AC 518, Nov. 12, 1899
11.12 g 3 r 11.42 11.44 = 11.43 01 01
11.44 r 1 k 11.54
√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

√ AC 2283, Feb. 6, 1902
10.84 f 3 r 11.14 11.12 = 11.13 01 01 a
/ r 0 g 11.12
/ √ 11.12 g 2 h 11.32
A scratch covers position of k

Dec. 23, 1903

Comp. Star h for "6, 1903"

See note p 218

Near edge ~~I 3063, Feb. 13, 1891~~
~~g ? h~~
~~h 0 k~~ Remeas. by mistake
~~h 4 l~~

~~I 24219, Dec. 12, 1899~~
~~g 2 h~~
~~h 2 k~~

Images very poor ~~I 22238, Jan. 26, 1899~~ Remeas. by mistake
~~g 3 h~~
~~h 1 k~~

~~I 22096, Jan. 1, 1899~~
~~g 2 h~~
~~h 2 k~~ Remeas. by mistake

I 28830, Oct 18, 1899

√ I 5622, Feb. 13, '92
10.84 f 3 h 11.14 11.12 11.04 = 11.10 04 02 06
h 0 g 11.12
11.04 h 5 k 11.54

√ I 319, Dec. 13, 1889
11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

near Edge Images of h very hazy Comp. doubtful
√ I 16378, Oct. 27, 1896
11.12 g 5 h 11.62 11.54 11.46 = 11.54 08 00 08
h 0 k 11.54
11.46 h 4 l 11.86

Dec. 23, 1903

Comp. star h for "6, 1903 Cont

√ I 26777, March 7, 1901
11.12 g 1 h 11.22 11.24 = 11.22 01 01
11.24 h 3 k 11.54

√ AC 1272, Feb. 21, 1901
11.12 g 3 h 11.42 11.44 = 11.43 01 01
11.44 h 1 k 11.54

√ AC 1328, March 7, 1901
11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

√ AC 2395, March 10, 1902
11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

√ AC 2390, March 6, 1902
11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

√ AC 152, Jan. 11, 1899
11.12 g 4 h 11.52 11.54 11.56 = 11.54 02 02
1 h 0 k 11.54
11.56 h 3 l 11.86

√ AC 644, Jan. 2, 1900 Erythrosin
Images too poor

√ AC 566, Dec. 4, 1899
11.12 g 4 h 11.52 11.54 11.36 = $11.4\overset{7}{4}$ 05 07 11
h 0 k 11.54
11.36 h 5 l 11.86

√ AC 2305, Feb. 10, 1902
11.54 k 1 v 11.64 11.56 = 11.60 04 04
11.56 v 3 l 11.86

Dec. 23, 1903

Comp. star h for "6, 1903" Cont.

√ AC 2372, March 1, 1900
11.54 k 2 h 11.74 11.56 = 11.65 09 09
11.56 h 3 l 11.86

√ AC 2930, Oct 23, 1902
10.84 f 3 h 11.14 11.12 11.24 = 11.17 03 05 $0\overset{7}{8}$
h 0 ~~k~~ g 11.12
11.24 h 3 ~~l~~ k 11.54

√ AC 2982, Nov. 7, 1902
11.12 g 4 h 11.52 11.54 11.36 = 11.47 05 07 11
h 0 k 11.54
11.36 h 5 l 11.86

√ AC 1245, Feb. 13, 1901
11.12 g 5 h 11.62 11.54 11.46 = 11.54 08 00 08
h 0 k 11.54
11.46 h 4 l 11.86

√ AC 2124, Dec. 31, 1901
Images of h too poor

√ AM 1520, Aug. 23, 1902
11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

√ AM 252, Oct. 26, 1899
11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

Continued p. 215

It became evident that star h varied somewhat, and therefore all plates on which it was used for comparison have been remeasured above. h has been measured on all plates sufficiently good for it to appear.

December 30, 1903

Remeasures of certain plates for Ceraski's
Var. "14, 1903" 065530 - Geminorum

Edge of plate Plate I 30456, May 11, 1903
Images poor 10.93 e 2 V 11.13 11.21 = 11.17 04 04
Note before 11.21 V 1 f 11.31

Edge of I 30434, May 8, 1903
plate. Images 10.58 d 3 V 10.88
very poor e n.s.
Does not disagree with prev. obs. not to be entered in ledger

AC 3565, April 29, 1903 First meas. p. 84
Too faint for safe comparison

Remark on I 30456 Evidently the former measurement (page 78)
was wrongly recorded. The variable is not
far from the magnitude of f, which is barely
visible. g is not seen

December 30, 1903

"5 and 6" 1903 and comp. star h.
Cont. from p. 213

I 14093, Dec. 18, 1895
Spectrum plate. too faint

~~I 23835, Oct. 18, 1899~~
AC 1319, March 6, 1901
(5) normal
(6) too poor

~~AM 713, Nov. 10, 1900~~
AC ~~2202~~ 1374, March 25, 1901
Too poor

January 2, 1904

"6, 1903" and Comp. Star h cont.

√ I 20057 Jan. 17, 1898
11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 k 11.54

Near edge of plate. Images poor
√ I 26474, Jan. 13, 1901
11.12 g 2 h 11.32 11.44 = 11.38 06 06
11.44 h 1 k 11.54

√ I 28243, Jan. 13, 1902
10.84 f 3(6) 11.14 11.12 11.04 = 11.10 04 02 06
(6) 0 g 11.12
11.04 (6) 5 k 11.54
√ 11.12 g 3 h 11.42 11.34 = 11.38 04 04
11.34 h 2 k 11.54.

√ AC 1319, March 6, 1901
Too poor

√ AM 192, Oct. 2, 1899
Too poor

AM 1636, Oct. 1902
g 3(6) remeas. by mistake
(6) 2 k
√ 11.12 g 3 h 11.42 11.34 = 11.38 04 04
11.34 h 2 k 11.54

√ AM 698, Oct. 16, 1900
11.12 g 3(6) 11.42 11.44 = 11.43 01 01
11.44 (6) 1 k 11.54
√ 11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

Jan. 2, 1904

"6, 1903" and Comp. star h cont

Images faint. Obs. doubtful
√ AM 315, Nov. 23, 1899
11.12 g 1(6) 11.22 11.24 = 11.23 01 01
11.24 (6) 3 k 11.54
√ 11.12 g 3 h 11.42, 11.44 = 11.43 01 01
11.44 h 1 k 11.54

√ AC 2885, Oct. 9, 1902
Too near edge

Images clear
AM 1610, Oct 6, 1902
g 2(6) remeas. by mistake
(6) 2 k
11.12 g 4 h 11.52 11.54 = 11.53 01 01 R
√ h 0 k 11.54
l ns.

AC 2399, March 10, 1902
g (6) remeas. by mistake
(6) 3 k

Im. g h hazy
√ 11.12 g 3 h 11.42 11.44 = 11.43 01 01
11.44 h 1 k 11.54

√ AC 2258, Jan. 30, 1902
11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

√ AM 1646, Oct. 11, 1902
11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

Near edge but images clear
√ AM 717, November 13, 1900
11.12 g ~~1~~ 2 (6) 11.32 11.24 = 11.28 04 04
11.24 (6) ~~7~~ 3 k 11.54
√ 11.12 g 4 h 11.52 11.44 = 11.48 04 04
11.44 h 1 k 11.54

January 2, 1904

Comp. star h for 6, 1903

√ A 4032, Oct. 11, 1899
11.12 g 2 h 11.32 11.34 = 11.33 01 01
11.34 h 2 k 11.54

A 4071, Oct. 14, 1899
11.12 g 1 h 11.22 11.24 = 11.23 01 01
11.24 h 3 K 11.54

January 2 1904

Remark on "6, 1903" and comparison star h. (h = K of sequence for Z Tauri)

The star h was found to vary slightly in brightness, sufficiently to vitiate its usefulness as a comparison star.

It has been measured independently on all plates on which it appears. This was done at the same time with the measurements of 6, 1903 in order to facilitate both pieces of work. The time, however, is kept separate and charged to the Contingent fund although the measurements are in this Carnegie book.