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April 13 1899.

Measures of Variable in Sculptor
C.D. No. -39 16 h 02.3 -39 0' 5" 9.4 Magn (Hj)
Comparison Stars marked on B 10208.

B 10208

11.41 nv = .3 < 14.71
r n.s

B 16991

9.34 1 r 9.44 9.49 = 9.46 .02 .03
9.49 r 2 g 9.69

B 14469
g 4r
r 2h

B 21704
10.07 nv = .2 < 10.27
r n.s

~~B 14462~~

B 21588
11.41 nv = .2 < 11.61
r n.s

B 21750
11.41 nv = .1 < 11.51
r n.s

B 21813
11.41 nv = .1 < 11.51
r n.s

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1899phae..proj..711B

April 19, 1899.

B 1920-2

✓ 11.41 m 1 r 11.5-1 11.5-1 = 11.5-1 ~~00 00~~ .01 .01
11.5-1 r o m 11.5-1

B 20704

✓ 11.5-1 m=2 < 11.7-1
r-m.s

B 20579

✓ 11.5-1 m=2 < 11.7-1
r-m.s

B 20796

✓ 11.41 m=.1 < 11.5-1
r-m.s

B 15-994

8.82 e 1 r 8.92 9.14 9.03 = 9.14 r 2 / 9.34 " "

A 3340

8.32 d 3 r 8.62 8.62 = 8.62 00 00
8.62 r 2 e 8.82

B 15-994

✓ 11.5-1 m=.2 < 11.7-1
r-m.s

A 3327

8.82 e 2 r 9.02 9.04 01 01 = 9.03
9.04 r 3 / 9.34

✓ l 17102

11.41 m 2 r 11.61 11.4-1 = 11.5-1 .10 .09 .09 .10
11.5-1 r 1 m 11.5-1

e near edge of pl. A 3345

8.32 d 2 r 8.52 8.52 = 8.52 00 00
8.52 r 3 e 8.82

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1899phae.proj..711B

April 14 1899.

Measures of Variable in Sculptor (cont)

C.P.M. -39 16 h 2.3 -39 5 5 5 9.4 Magn. (1870)

Comparison Stars marked on B 10205.

B 18516

11.41	m 1 n	11.51	11.47 = 11.46	.04 .04
11.47	n 1 m	11.53		

B 19589

10.89	h 1	10.99		
	n m s			

B 19503

11.57	m 2 n	11.77	11.69 = 11.63	.06 .06
11.69	n 1 h	11.69		

B 16988

10.57	h 1 n	10.67	10.79 = 10.73	.06 .06
10.79	n 1 k	10.89		

B 16913

10.57	h 1 n	10.67	10.79 = 10.73	.06 .06
10.79	n 1 k	10.89		

B 16839

10.07		10.37	10.47 = 10.42	.05 .05
9.69	h 3 1	9.89	9.97 = 9.93	.04 .04
9.97	n 1 k	10.07	10.57	

B 16789

10.07		10.37	10.37 = 10.37	.00 .00
9.84	h 3 n	9.44	9.49 = 9.46	.02 .03
9.49	n 2 k	9.69	10.57	
10.37				

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1899phae.proj..711B

April 14, 1899.
0 2.3 -39° 55⁻

B 1675-8

√ 9.69	g 2 r	9.89	9.87 = 9.88	.01	.01
9.87	r 2 h	10.07			

B 16460

√ 9.84	f 1 r	9.44	9.69 = 9.56	.12	.13
9.69	r 0 g	9.69			

B 17468

√ 11.41	m = 1	< 11.5⁻1	
	r m s		

B 17265⁻

√ 11.41	m a r	11.61	11.3X³ = 11.46⁷	.18⁴⁻	.18⁴⁻
11.81 (33)	r 2 m	11.5X³			

B 18033

√ 11.41	m = 1	< 11.5⁻1	
	r m s		

B 17010

11.41	m 1 r	11.5⁻1	11.4X³ = 11.46⁷	.05⁴⁻	.05⁴⁻
√ 11.4X³	r 1 m	11.5⁻X³			

B 17573

√ 11.5⁻X³	m = 1	< 11.6X⁵	
	r m s		

A 2075⁻

√ 9.34	f = 1	< 9.44	
	r m s		

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1899phae.proj..711B

April 14 1899
h. 0 2.9 – 39° 55'

B 19760
10.89 h=.1 <10.99
r.m.s

B 17096
Too near edge of plate.

B 17795
11.5X3 n=.1 <11.6X3
r.m.s

B 20203
11.5X3 n=.2 <11.7X3
r.m.s

B 20162
10.89 h=.1 <10.99
r.m.s

B 20020
11.41 n=.1 <11.51
r.m.s

B 19740
11.5X3 n=.1 <11.6X3
r.m.s

B 17844
11.41 n=.2 <11.61
r.m.s

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1899phae.proj..711B

April 14 1899
h 2.3 -39 55°

B 17882
Too much edge of Plate.

B 17791
10.57 h = 1 < 10.67
r m.s

April 15, 1899

B 20623
18 28 18 12.23 .05 .05
12.06 q l r 12.16 12.06 = ~~12.11 .05~~ .05
18 28
~~12.06~~ r l n 12.16

Nov. 22, 1899

A 9350
8.82 e l r 8.92 9.24 = 9.08 .16 .16
9.24 r l f 9.34

B 28590
11.53 m l r 11.63

A 9940
7.04 a l r 7.14
tm on pl.

B ~~28546~~ 28556
Surface

B 22026 Sp.
8.82 e = .1 < 8.92
r m s

B 27603
11.47 14 14
11.41 m 2 r 11.61 11.33
11.33 r 2 m 11.53

B 22142
8.82 e 2 r 9.02 9.04 = 9.03 = .01 .01
9.04 r 3 f 9.84

B 28057
12.10 03 02
12.03 12.13 12.08 =
12.08 12.18

B 21834 Sp
9.84 f = 1 < 9.44

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1899phae.proj..711B

May 8, 1899.
h 2.3 −39° 0′ 0″

B 20 0-0 1 Sp.

✓ 9.69 g = .2 < 9.89
r m.s

B 20198 Sp.

✓ 8.82 g = .1 < 8.92
r m.s

B 14899 Sp.

✓ 9.69 g = .1 < 9.79
r m.s

B 28127
Too near edge of pl.

B 1720-8 Sp.

✓ 8.82 g = .1 < 8.92
r m.s

✓ B 28277
12.03 fr 1 St 12.1

B 22189

✓ 9.94 f in 9.44 9.49 = 9.46 .02 .03
9.49 r 2g 9.69

B 21886 Sp.

✓ 9.94 f = .1 < 9.44
r m.s

✓ B 28368
11.71 01 St 11.81

✓ B 28411
11.71 02, St 11.91

B 28421

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1899phae.proj..711B

May 11 1899.

Measures of Variable in S. Sculptoris –
a. 9. C. 157 0 10.4 – 32° 36'
Comparison Stars marked on B 5734.

B 18034

✓ 6.29 6.09 6.67 6.47 — a 2 r — r 2 b — 6.49 6.67 = 6.58 / 6.29 6.47 = 6.38 — 6.87 / 6.67 — .09 .09

B 17189 Sp.

✓ 8.04 7.84 — d = .1 — r.m.s — < 7.94 < 8.14

B 15112 Sp.

✓ 6.87 6.67 7.19 7.19 — b 2 r — r o c — 7.07 7.39 7.23 — 6.87 7.19 = 7.03 — 7.39 7.19 — .16 .16

B 15097

✓ 6.87 6.67 7.19 6.99 — b 1 r — 2 — r x c — 6.97 7.19 7.08 — 6.77 6.99 = 6.88 — 7.39 7.19 — .18' .18'

B 15036

✓ 9.02 8.82 9.40 9.20 — f 2 r — r 3 g — 9.22 9.40 = 9.31 — 9.02 9.20 = 9.11 — 9.70 9.50 — .09 .09

B 14593

✓ 11.13 10.93 — l = .1 — m.m.s — < 11.03 < 11.23

B 14524

✓ 9.70 9.50 10.05 9.85 — g 2 r — r 1 h — 9.90 10.05 = 9.98 — 9.70 9.80 = 9.78 — 10.15 9.95 — .08 .07

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1899phae.proj..711B

May 11, 1899.

h m
0 10.4 − 9.2° 96

R 16992

	11.60		11.70	12.00 = 11.85		
✓	~~11.40~~	m 1 r	~~11.50~~	~~11.80 = 11.60~~	.10	.10
	12.00		12.00			
	~~11.80~~	r o m	~~11.80~~			

✓ R 17010

Too near edge of plate.

R 17103

	9.02		9.22	9.50 = 9.36		
✓	~~8.88~~	7 2 r	~~9.02~~	~~9.30 = 9.16~~	.14	.14
	9.50		9.70			
	~~9.30~~	r 2 9	~~9.50~~			

R 17574

	7.39		7.69	8.04 = 7.86		
✓	~~7.19~~	c 3 r	~~7.49~~	~~7.84 = 7.66~~	.17	.18
	8.04		8.04			
	~~7.84~~	r o d	~~7.84~~			

R 17736

	6.29		6.59	6.67	6.63	
	~~6.09~~	a 2 r	~~6.39~~	~~6.47 = 6.43~~	.04	.04
	6.67		6.84			
✓	~~6.47~~	r 2 t	~~6.64~~			

R 17881

	6.29		6.39	6.67 = 6.53		
✓	~~6.09~~	a 1 r	~~6.19~~	~~6.47 = 6.33~~	.14	.14
	6.67		6.89			
	~~6.47~~	r 2 t	~~6.69~~			

R 14860

	8.34		8.44	8.72	8.58	
✓	~~8.14~~	e 1 r	~~8.24~~	~~8.52 = 8.38~~	.14	.14
	8.72		9.02			
	~~8.58~~	r 2 7	8.82			

R 16989

	10.15		10.35	10.60	10.48	
✓	~~9.95~~	6	~~10.15~~	~~10.40 = 10.28~~	.13	.12
	10.60	n 2 r	10.70			
	10.40	r 1 6	~~10.50~~			

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1899phae.proj..711B

May 12, 1899.

0 10.4 − 32 36'

B 1655 23

✓	10.70	k 1 r	10.80	11.03	10.92	
	~~10.50~~		~~10.60~~	~~10.83 = 10.72~~	.12	.11
	11.03	r 1 l	11.13			
	~~10.83~~		~~10.93~~			

B 16790

✓	9.70	g 2 r	9.90	9.95 = 9.92		
	~~9.50~~		~~9.70~~	~~9.45 = 9.42~~	.02	.03
	9.95	r 2 h	10.15			
	~~9.75~~		~~9.95~~			

B 16834

✓	10.70	k 1 r	10.80	11.03 = 10.92		
	~~10.50~~		~~10.60~~	~~10.83 = 10.72~~	.12	.11
	11.03	r 1 l	11.13			
	~~10.83~~		~~10.93~~			

B 17266

✓	9.02	f 2 r	9.22	9.50 = 9.36		
	~~8.88~~		~~9.02~~	~~9.80 = 9.16~~	.14	.14
	9.50	r 2 g	9.70			
	~~9.80~~		~~9.90~~			

B 16922

✓	10.15	h 2 r	10.35	10.70	11.03	10.69		
	~~9.95~~		~~10.15~~	~~10.50~~	~~10.83~~	~~10.49~~	.34	.01 .34
	10.70	r 0 k	10.70					
	~~10.50~~		~~10.50~~					
	11.03	r 1 l	11.13					
	~~10.83~~		~~10.93~~					

B 16501

	11.13	b 2 r	11.33	11.60	11.90 = 11.61			
	~~10.93~~		~~11.13~~	~~11.40~~	~~11.70 = 11.41~~		.28	01 .29
✓	11.60	r 0 m	11.60					
	~~11.40~~		~~11.40~~					
	11.90	r 1 w	12.00					
	~~11.70~~		~~11.80~~					

B 14469

✓	10.15	h 2 r	10.35	10.60	10.48	
	~~9.95~~		~~10.15~~	~~10.40~~	~~10.28~~	.13 .12
	10.60	r 1 k	10.70			
	~~10.40~~		~~10.50~~			

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1899phae.proj..711B

May 12, 1899.
h
0 10.4 −32 36

R 10-194

6.87			7.07	7.39	7.84 = 7.43		
~~6.67~~	L 2 r		~~6.87~~	~~7.19~~ ~~7.64 = 7.23~~		.36	.04 .41
7.89			7.89				
✓ ~~7.19~~	r o c		~~7.19~~				
7.84			8.04				
~~7.64~~	r 2 d		~~7.84~~				

R 10-276

8.04			8.24	8.24	8.24	00	00
✓ ~~7.87~~	d 2 r		~~8.04~~	~~8.04 = 8.04~~		00	00
8.24			8.34				
~~8.04~~	r 1 e		~~8.14~~				

R 18065

6.29			6.49	6.77 = 6.63			
✓ ~~6.09~~	a 2 r		6.29	~~6.84 = 6.43~~		.14	.14
6.77			6.87				
~~6.57~~	r 1 f		~~6.67~~				

R 18035

8.34			8.54	8.82 = 8.68			
✓ ~~8.14~~	e 2 r		~~8.34~~	~~8.62 = 8.48~~		.14	.14
8.82			9.02				
~~8.62~~	r 2 f		~~8.82~~				

R 18017

9.02			9.12	9.40	9.26		
✓ ~~8.82~~	f 1 r		~~8.92~~	~~9.20 = 9.06~~		.14	.14
9.40			9.70				
~~9.20~~	r 3 g		~~9.00~~				

R 17467

8.04			8.14	8.24 = 8.19			
✓ ~~7.87~~	d 1 r		~~7.94~~	~~8.04 = 7.99~~		.05	.05
8.24			8.34				
~~8.04~~	r 1 e		~~8.14~~				

R 19010

11.60			11.70	11.90 = 11.80			
✓ ~~11.40~~	m 1 r		~~11.50~~	~~11.70 = 11.60~~		.10	.10
11.90			12.00				
~~11.70~~	r 1 m		~~11.80~~				

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1899phae.proj..711B

May. 17. 1899.

h mm
0 10.4 −32° 36′

B 19741

✓ 11.13 / ~~10.93~~ h = 1 ~~< 11.03~~ < 11.23

r n.s

B 19761

12.30
✓ ~~12.10~~ 0 = 1 ~~< 12.20~~ < 12.40

r n.s

B 19889

✓ Too near edge of plate.

B 20021

10.70 / ~~10.60~~ h 2 r 10.90 11.03 10.96 / ~~10.70~~ ~~10.83~~ ~~10.76~~ .06 .07
✓ 11.03 / ~~10.83~~ r 1 h 11.13 / ~~10.93~~

B 20099 10.15 h 1 r 10.25 R

✓ ~~11.13~~ / ~~10.93~~ ~~1 = 1~~ ~~< 11.03, < 11.23~~ R

~~r n.s~~

✓ B 26170

09 09
✓ B 20163 9.02 2 r 9.22 9.40 = 9.31
9.40 3 g 9.70

Too near edge of plate

B 22141

6.29 / ~~6.09~~ a 2 r 6.49 6.67 5 / ~~6.29~~ ~~6.47~~ ~~= 6.38~~ .09 .09
✓ 6.67 / ~~6.47~~ r 2 h 6.84 / ~~6.67~~

✓ B 20191

Too near edge of plate.

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1899phae.proj..711B

May. 18. 1899.
h m
0 10.4 — 22° 36'

R 19531

✓ 10.70 / ~~10.00~~ — k = .2 — < ~~10.70~~ < 10.90

r n.s

R 19553

✓ 12.00 / ~~11.80~~ / 12.20 / ~~12.00~~ — ~~k = .2~~ — r 1 0 — 12.20 / ~~12.00~~ / 12.80 / ~~12.10~~ — 12.20 = 12.20 / ~~12.00 = 12.00~~ .00 .00

R 22189

✓ 6.87 / ~~6.67~~ / 7.29 / 7.09 — ~~k = .2~~ — r 1 c — ~~7.07~~ / ~~6.87~~ / 7.39 / ~~7.19~~ — 7.29 = 7.18 / ~~7.09 = 6.98~~ .11 .11

✓ R 21973

Too near edge of plate.

R 21745

✓ 11.13 / ~~10.93~~ — k = .2 — ~~< 11.18~~ < 11.33

r n.s

R 22302

✓ 6.87 / ~~6.67~~ / 7.19 / ~~6.99~~ — k 2 r — r 2 c — ~~7.07~~ / ~~6.87~~ / 7.39 / ~~7.19~~ — 7.19 / ~~6.99~~ .06 .06

R 20703

✓ 6.29 / ~~6.09~~ / 6.77 / ~~6.57~~ — a 2 r — r 1 b — 6.49 / ~~6.29~~ / 6.87 / ~~6.67~~ — 6.77 / ~~6.57~~ = 6.63 / ~~6.43~~ .14 .14

✓ R 20214 Sp

Too near edge

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1899phae.proj..711B

May 18, 1899.
h m °
0 10.4 = 32 36

B 20573

✓ 7.39 7.19 7.94 7.74 — c 2 r = 7.59 7.29 8.04 7.84 — 7.94 7.74 = 7.84 7.64 — 7 7.76 — .17 .18
r 1 d

✓ B 20456

Footmarkedge

B 12696

7.39 c 1 r 7.49 7.84 = 7.66 (17 18)
7.84 r 2 d 8.04

✓ B 20877

Footmarkedge

B 20796

✓ 7.39 7.19 8.04 7.84 — c 1 r — r 0 d — 7.49 7.29 8.04 7.84 — 7.84 7.64 — 7.76 — .27 .28

B 20727

✓ 6.29 6.09 6.77 6.57 — a 0 r — r 1 d — 6.29 6.09 6.87 6.67 — 6.77 6.57 = 6.53 — .24 .24

A 2179

✓ 6.29 6.09 6.77 6.57 — a 2 r — r 1 d — 6.49 6.29 6.87 6.67 — 6.77 6.57 = 6.63 — .14 .14

B 17596

✓ 7.39 7.19 7.94 7.74 — c 1 r — r 1 d — 7.49 7.29 8.04 7.84 — 7.94 7.74 = 7.72 — .23 .22

B 16461

✓ 11.13 10.93 — l = 1 — r m s — 11.03 — 11.23

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1899phae.proj..711B

May 31, 1899.

Variable Star S Trucanae
h m ° ′
17.2 −62 21 (approx 1875)
Comparison Stars marked on Pl. 3788.

B 15570

✓ 11.08 l = .1 < 11.18
r n.m.s

B 17915

✓ 10.78 k = .1 < 10.88
r n.m.s

B 17876

✓ 9.69 f 3.r 9.99 10.01 = 10.00 .01 .01
10.01 r.1 g 10.11

B 17466

✓ 10.43 k 1 r 10.53 10.58 = 10.56 .03 .02
10.58 r 2 k 10.78

B 17571

✓ 10.78 k 1 r 10.88 10.98 = 10.93 .05 .05
10.98 r 1 l 11.08

B 17734

10.78 k 2 r 10.98 10.98 = 10.98 00 00
✓ ~~10.43~~ ~~k 1 r~~ ~~10.53~~ ~~10.68 = 10.60~~ .07 .08
10.98 r 1 l
~~10.68~~ ~~r 1 k~~ ~~10.78~~ 11.08

B 17497 ✓ B 14956 Sh.

✓ 9.44 l = .1 < 9.54 Near center
r N.S

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1899phae.proj..711B

May 21 1899.
h 17.2 -62° 21 (after 1875)

/ B17016

9.69	8.92	f 2 r	c3r	9.22	9.14 = 9.18	04 04
✓ 9.91	9.14	r a g	r1d	9.89 9.24	9.91 = 9.90	.01 .01
				10.11		

B17074.

✓ 9.24	d 1 r	9.34	9.34 = 9.34	00 00
9.34	r 1 e	9.44		

B18032

✓ 10.11	g = .1	< 10.21
	r m.s	

B17229

✓ 9.24	d 1 r	9.34	9.34 = 9.34	00 00
9.34	r 1 e	9.44		

B14485

✓ 11.08	l = .2	< 11.28
	r m.s	

B14487

✓ 11.08	l = .1	< 11.18
	r m.s	

B14243

✓ 11.08	l = .1	< 11.18
	r m.s	

B14615 Sp.

✓ 8.92	N = .1	< 9.02
	r m.s	

B15993

✓ 10.78	Q 1 r	10.88	11.08 = 10.98	10.10
11.08	r o l	11.08		

B16485

✓ 9.69	f 2 r	9.89	9.81 = 9.85	.04 .04
9.81	r 3 g	10.11		

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1899phae.proj..711B

May 31 1899.
h m
0 17.2 -62 21

B 16831

✓ ~~9.69~~ 8.92 ~~9.91~~ 8.94 — c1 r, f1 r, r3d, r2g

~~9.02~~ 8.94 = 8.98 04 04
~~9.79~~ ~~9.91~~ = ~~9.80~~ = .06 .06
~~10.11~~ 9.24

B 16963

✓ ~~9.69~~ 8.92 8.94 ~~9.91~~ — c1 r, f2 r, r3d, r2g

9.02 8.94 = 8.98 04 04
~~9.89~~ ~~9.91~~ = ~~9.90~~ .01 .01
~~10.11~~ 9.24

B 16212

✓ 10.11 g1 r 10.21 10.38 = 10.27 .06 .06
10.33 r1 h 10.43

B 16914

✓ ~~9.69~~ 8.92 ~~9.91~~ 8.94 — c1 r, f1 r, r3d, r2g

9.02 8.94 = 8.98 04 04
~~9.79~~ ~~9.91~~ = ~~9.80~~ .06 .06
~~10.11~~ 9.24

B 18107

✓ 9.44 e=.1 < 9.54
r m.s

B 14056 2

✓ 11.08 e=.1 < 11.18
r m.s

✓ B 12005 S/N.
8.14 d=2 < 8.34
r m.s

B 15152 1/2

✓ 9.24 d=.1 < 9.34
r m.s

✓ 8.52 B16620
8.82 r2r r1c 8.72 8.82 = 8.77 .05 .05
8.92

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1899phae.proj..711B

May 21, 1899
m
o 17.2 -62.21

B 14784

✓ 11.23 m 1 r 11.33 11.23 = 11.28 .05 .05
11.23 r 1 m 11.33

B 17818

✓ 8.92 a = .1 < 9.02
r m.s

B 14490

✓ 11.08 b = .1 < 11.18
r m.s

B 18290

✓ 9.24 d = .1 < 9.34
r m.s

B 18106

✓ 8.92 c = .1 < 9.02
r m.s

B 20148 S/n.

✓ 9.69 f = .1 < 9.79
r m.s

✓ B 12478

11.08 b 3 r 11.38 11.22 - 11.30
.08 .08
11.22 r 1 m 11.23

B 21854 S/n.

✓ 8.92 c 1 r 9.02 9.14 = 9.08 .06 .06
9.14 r 1 d 9.24

✓ 11.60 B 15995 11.80 12.00 12.20 = 12.00 .20 .00 .20
~~11.40~~ ~~11.80~~ ~~12.00~~
~~12.00~~ ~~11.80~~
~~12.20~~ ~~12.30~~ ~~12.40~~

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1899phae.proj..711B

June 10, 1899.
h m
0 17.2 -62 21

B 20824

✓ 8.92 c = .3 < 9.22

r m.s

B 21635

✓ 11.08 l? = .1 < 11.18

r m.s

B 19887

✓ 9.44 e = .2 < 9.64

r m,s

B 20068

✓ 9.44 e = .1 < 9.54

r m,s

B 21865

✓ 8.92 e = .2 < 9.12 v B 11667

r m,s 8.52 ± 3 r 8.82, 8.72 = 8.77 05 .05

8.72 r 2 c 8.92

B 20706

✓ ~~8.92~~ ~~9.69~~ ~~1 CHr~~ 9.32 9.24 = 9.28 04 04

~~9.91~~ 9.24 ~~rod~~ ~~9.79 9.91 = 9.85 .06 .06~~

10.11 9.24

B 20578

✓ 10.11 g i r 10.21 10.33 = 10.27 .06 .06

10.33 r i h 10.43

✓ B ~~2002~~ 2032

11.08 b = .2 < 11.28

r m,s

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1899phae.proj..711B

June 10 1899.
h m
δ 17.2 −62 21

B 18332
✓ 8.92 c=.1 <9.02
r m.s

B 18496
✓ 9.24 d=.2 <9.44
r m.s

B 18974
9.69 f2 r 9.89 10.01 = 9.95 .06 .06
✓ 10.01 r2 g 10.11

B 19054
✓ 10.78 h1 r 10.88 10.98 = 10.93 .05 .05
10.98 r1 l 11.08

B 19459
✓ 11.08 l=.1 <11.18
r m.s

✓ B 12066
8.52 f=.1 <8.62
r m.s

B 19799
✓ 11.08 l=.1 <11.18
r m.s

✓ B 11656
8.52 f2 r 8.72 8.72 = 8.72000
8.72 r2 C 8.92

B 20019
✓ 11.08 l=.1 <11.18
r m.s

B 11666
8.52 f3 r 8.82 8.82 = 8.82 0000
8.82 r1 C 8.92

B 21585
✓ ~~9.69~~ 8.92 ~~l r0 r~~ 9.22 9.14 = 9.18 04 04
~~9.91~~ 9.14 ~~r1 d~~ ~~9.89 9.91 = 9.90 .01 .01~~
10.11 9.24

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1899phae.proj..711B

June 10 1899
h m
0 17.2-62 21

B 21813

✓ 8.92 c 1 r 9.02 9.14 = 9.08 .06 .06
9.14 r 1 d 9.24

B 20862

✓ ~~9.69~~ 9.44 ~~f 1 r~~ c 2 r 9.54 9.39 = 9.46 08 07
~~9.91~~ 9.39 ~~r 2 g~~ r 3 f ~~9.99 9.91 = 9.95 .06 .06~~
~~10.11~~ 9.69

B 21730

✓ ~~9.69~~ 8.92 ~~f 1 r~~ c 2 r 9.12 9.04 = 9.08 04 04
~~9.91~~ 9.04 ~~r 2 g~~ r 2 d ~~9.99 9.91 = 9.95 .06 .06~~
~~10.11~~ 9.24

✓ B 20823
Too near edge of Pl.

B 20798

✓ ~~7.69~~ 9.24 ~~f 1 r~~ d 1 r 9.34 9.14 = 9.24 10 10
~~9.91~~ 9.14 ~~r 2 g~~ r 3 e ~~9.89 9.91 = 9.90 .01 .01~~
~~10.11~~ 9.44

B 21656

✓ ~~11.08~~ 8.52 ~~f 1 r~~ t 5 r 9.02
~~11.18~~ 8.82 = 8.92 10 10
8.82 ~~r m.s~~ r 1 c 8.92

B 19811

✓ 11.08 ~~l = 2~~ 11.28
r m.s

B 20687

✓ ~~9.69~~ 8.92 ~~f 1 r~~ c 3 r 9.22 9.11 = 9.18 04 04 ~~9.69~~ 10.11 94 r 10.41 10.33 = 10.37 04 04
~~9.91~~ 9.14 ~~r 2 g~~ r 1 d 9.24 ~~9.79 9.91 = 9.85 .06 .06~~ 10.11 2 1 h ~~9.89 10.01 = 9.95 .06 .06~~
10.11 10.33 ~~10.01~~ ~~10.11~~ 10.43

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1899phae.proj..711B

June 15 1899

Measures of α Persei

B.D. +54°431 1^h 5-3.0 +5-4° 20′ (1900)

Comparison Stars marked on l 9280

l 4814

✓ 9.92 rd 2 r 10.12 10.37 = 10.24 .12 .13

10.37 r 2 E 10.37

l 16206

✓ 9.92 d 1 r 10.02 10.37 = 10.20 .18 .17

10.37 r 2 E 10.37

∠ B10901

9.30 + 2σ 9.50 9.52

l 15-837 9.52 σ 1 C 9.62 9.51

✓ 8.48 a = .2 ∠ 8.68 01 01

r m s

l 10901 r

✓ 8.48 a 2 f 8.68 9.20 = 8.94 .26 .26

9.20 r 2 b 9.30

l 10 25-2

✓ 11.04 g 1 r 11.14 11.14 = 11.14 00 00

11.14 r 2 h 11.34

l 9401

✓ 10.82 f = .1 ∠ 10.92

r m s

l 4264

✓ 9.62 C 1 r 9.72 9.72 = 9.72 00 00

9.72 r 2 d 9.92

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1899phae.proj..711B

June 10, 1899.
1 δ 3.0 + 0.4 ° 20′ (1900)

l 9541

✓ 9.92 d = .1 < 10.02
r n.s

l 10048

✓ 11.04 g 2 r 11.24
h s r

l 10189

✓ 11.34 h 1 r 11.44 11.49 = 11.46 .02 .03
11.49 r 1 h 11.59

l 9969

✓ 9.62 c 2 r 9.82 9.72 = 9.77 .05 .05
9.72 r 2 d 9.92

l 10442

✓ 9.62 c 1 r 9.72 9.92 = 9.82 .10 .10
9.92 r 0 d 9.92

l 9908

✓ 11.04 g 2 r 11.24 11.24 = 11.24 00 00
11.24 r 1 h 11.34

✓ l 16041

11.04 g = .4 < 11.34
r n.s

l 9280

✓ 9.62 c 1 r 9.72 9.72 = 9.72 00 00
9.72 r 2 d 9.92

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1899phae.proj..711B

June 21 1899.
h m s -3.04 -4 20 (1900)

l 3186

✓	11.04	g 2 r	11.24	11.24 = 11.24	00	00
	11.24	r 1 h	11.34			

l 2183 Sp

✓	8.48	a 2 r	8.68	9.20 = 8.94	.26	.26
	9.20	r 1 t	9.30			

@ 1977. Sp.

✓	9.92	d 1 r	10.02	10.37 = 10.20	.18	.17
	10.37	r 2 e	10.37			

l 13610

✓ Too near edge of plate.

l 2291 Sp.

✓	8.48	a 2 r	8.78	9.10 = 8.94 =	.16	.16
	9.10	r 2 t	9.30			

l 10693

✓	9.62	e 2 r	9.82	9.82 = 9.82	00	00
	9.82	r 1 d	9.92			

l 10952

✓	10.67	e 1 r	10.67	10.62 = 10.64	.03	.02
	10.62	r 2 f	10.82			

l 10922

9.30 f 1 r 9.40 9.32 9.32
r 3 c 9.62
9.32

✓	8.48	a 1 r	8.58	9.20 = 8.89	.31	.31
	9.20	r 1 h	9.30			

04 94

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1899phae.proj..711B

June 21, 1899.
h m
1 53.0 + 54 20' (1900)

l 10542

	10.82	f 2 r	11.02	11.04	11.24 = 11.10	.08	.06 .14
✓	11.04	r 0 g	11.04				
	11.24	r 1 h	11.34				

✓ l 14617

	9.90	h 2 r	9.50	9.52 = 9.51		.01	.01
	9.52	r 1 c	9.62				

l 11727

✓	11.04	g 2 r	11.24	11.24 = 11.24		00	00
	11.24	r 1 h	11.34				

l 7823

	11.34	h 3 r	11.64	11.59	11.69 = 11.64	00	.05 .05
✓	11.59	r 0 h	11.59				
	11.69	r 2 x l	11.89				

l 10229

✓	10.82	f 1 r	10.92	10.94 = 10.93		.01	.01
	10.94	r 1 g	11.04				

l 15208

✓	11.59	h 2 r	11.79	11.79 = 11.79		00	00
	11.79	r 1 l	11.89				

l 11608

✓	11.04	g 2 r	11.24	11.24 = 11.24		00	00
	11.24	r 1 h	11.34				

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1899phae.proj..711B

June 21 1899
h m
1 53.0 +54° 20' (1900)

l 10351

✓	10.57	E 1 r	10.67	10.62 =	10.64	.03 .02
	10.62	r 2 f	10.82			

l 12765

✓	9.62	c 2 r	9.82	9.82 =	9.82	00 00
	9.82	r 1 d	9.92			

l 11703

✓	11.04	g 1 r	11.14	11.14 =	11.14	00 00
	11.14	r 2 h	11.34			

l 7772

✓	11.04	g 2 r	11.24	11.24 =	11.24	00 00
	11.24	r 1 h	11.34			

l 12632

✓	9.62	c 1 r	9.72	9.72 =	9.72	00 00
	9.72	r 2 d	9.92			

l 10202

✓	10.82	f 1 r	10.92	10.94 =	10.93	.01 .01
	10.94	r 1 g	11.04			

B 1954

✓	11.04	g 2 r	11.24	11.14 =	11.19	.05 .05
	11.14	r 2 h	11.34			

B 2068

✓	9.62	c 2 r	9.82	9.82 =	9.82	00 00
	9.82	r 1 d	9.92			

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1899phae.proj..711B

June 22, 1899
h m
1 05 3.0 + 54° 20' (1900)

l 11640

✓	10.82	f 2 r	11.02	11.04 = 11.03	.01	.01
	11.04	r 0 g	11.04			

l 9986

✓	11.04	g 2 r	11.24	11.24 = 11.24	00	00
	11.24	r 1 h	11.34			

l 15351

✓	11.59	h 2 r	11.79	11.69 = 11.74	.05	.05
	11.69	r 2 l	11.89			

l 12081

✓	9.62	r 2 r	9.82	9.82 = 9.82	00	00
	9.82	r 1 d	9.92			

l 12185

✓	9.62	r 1 r	9.72	9.82 = 9.77	.05	.05
	9.82	r 1 d	9.92			

l 14870

✓	9.62	e 1 r	9.72	9.82 = 9.77	.05	.05
	9.82	r 1 d	9.92			

l 9546

✓	10.57	e 1 r	10.67	10.82 = 10.74	.07	.08
	10.82	r 0 f	10.82			

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1899phae.proj..711B

June 22 1899
h m
1 03.0 +05 4° 20' (1900)

l 12187

✓	8.48	a 2 r	8.68	9.20 = 8.94	.26	.26
	9.20	r 1 b	9.30			

l 11766

✓	10.82	f 1 r	10.92	10.94 = 10.93	.01	.01
	10.94	r 1 g	11.04			

l 15-346

✓	9.92	d 2 r	10.12	10.47 = 10.30	.18	.17
	10.47	r 1 e	10.57			

l 7570

✓	11.04	g 2 r	11.24	11.24 = 11.24	00	00
	11.24	r 1 h	11.34			

l 14124

✓	9.62	c 1 r	9.72	9.72 = 9.72	00	00
	9.72	r 2 d	9.92			

✓ l 15621
Too near edge

✓ l 15711
Poor plate

l 2270

✓	11.59	k 2 r	11.79				
		l n.s					

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1899phae.proj..711B

June 22 1899

h m
1 5-3.0 + 5-4 20 (1900)

l 8187

✓ 8.48 a 2 r 8.68 9.20 = 8.94 .26 .26
9.20 r 1 b 9.30

✓ l 15-714
Poor plate

l 15-768
✓ Poor plate

l 45-84

✓ 9.92 d 1 r 10.02 10.37 = 10.20 .18 .17
10.37 r 2 E 10.57

l 7945-

✓ 11.04 g 1 r 11.14 11.34 11.39 = 11.29 .18- .05- .10
11.34 r 1 h 11.34
11.39 r 2 k 11.59

l 6854

✓
9.62 r 1 r 9.72 9.82 = 9.77 .05- .05-
9.82 r 1 d 9.92

l 5607

✓
11.34 h 1 r 11.44 11.49 = 11.46 .03 .03
11.49 r 1 k 11.59

l 6030

✓
9.92 d 2 r 10.12 10.47 = 10.30 .18 .17
10.47 r 1 E 10.57

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1899phae.proj..711B

June 22 1899.
h m ° ′
1 3 3.0 +3 4 20 (1900)

l 5307

✓ 10.82	f 2 r	11.02	10.94 =	10.98	.04	.04
10.94	r 1 g	11.04				

l 2560

✓ 9.62	c 2 r	9.82	9.72 =	9.77	.05	.05
9.72	r 2 d	9.92				

l 2856

✓ 9.92	d 1 r	10.02	10.37 =	10.20	.18	.17
10.37	r 2 e	10.57				

✓ l 12408

Too near edge

l 4954

✓ Poor plate

l 8456

✓ 9.62	c 2 r	9.82	9.72 =	9.77	.05	.05
9.72	r 2 d	9.92				

l 8051

✓ 10.82	f 2 r	10.92	10.84 =	10.88	.04	.04
10.84	r 2 g	11.04				

l 2101

✓ 8.48	a 2 r	8.68	9.20 =	8.94	.26	.26
9.20	r 2 b	9.30				

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1899phae.proj..711B

June 22, 1899.
h
1 δ-3.0 +δ-4 20′ (1900)

l 1901

✓	9.30	b 3 a	9.60	9.42 = 9.51	.09	.09
	9.42	a 2 c	9.62			

l 2293

✓	8.48	a 3 a	8.78	9.10 = 8.94	.16	.16
	9.10	a 2 b	9.30			

l 7585

✓	10.82	f 2 a	11.02	10.94 = 10.98	.04	.04
	10.94	a 1 g	11.04			

l 9934

✓	9.92	d 1 a	10.02	10.37 = 10.20	.18	.17
	10.37	a 2 e	10.57			

l 11822

✓	10.57	e 2 a	10.77	10.72 = 10.74	.03	.02
	10.72	a 1 f	10.82			

l 11852

	9.92	d 1 a	10.02	10.57 = 10.30	.28	.27
✓	10.57	a 0 e	10.57			

l 7628

✓	11.34	h 1 a	11.44	11.49 = 11.46	.02	.03
	11.49	a 1 k	11.59			

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1899phae.proj..711B

June 22, 1899.
h m
1 53.0 +54 20° (1900)

l 5800

✓ 11.34 h 1 r 11.44 11.49 = 11.46 .02 .03
11.49 r 1 h 11.59

l 5389

✓ 10.82 f 2 r 11.02 11.04 11.14 = 11.07 .08 .03 .07
11.04 r 0 g 11.04
11.14 r 2 h 11.34

l 13642

✓ 9.92 d 2 r 10.12 10.27 = 10.20 .08 .07
10.27 r 3 e 10.37

l 12036

✓ 9.62 c 2 r 9.82 9.82 = 9.82 00 00
9.82 r 1 d 9.92

l 11641

✓ 11.04 g 2 r 11.24 11.34 11.49 = 11.36 .12 .02 .13
11.34 r 0 h 11.34
11.49 r 1 k 11.59

l 10790

✓ 10.57 e 1 r 10.67 10.72 = 10.70 .03 .02
10.72 r 1 f 10.82

l 10969

✓ 9.62 c 3 r 9.92 9.82 = 9.87 .00 .05
9.82 r 1 d 9.92

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1899phae.proj..711B

June 22, 1899
h m
1 53.0 +57° 20' (1900)

l 51 Ν 20

✓ 10.82	f 1 r	10.92	10.84 = 10.88	.04 .04
10.84	r 2 g	11.04	✓ 10.57 e 1 r 10.67	10.62 = 10.64
			10.62 r 2 f 10.82	03 02

l 13796

✓ 9.92	d 1 r	10.02	10.37 = 10.20	.18 .17
10.37	r 2 e	10.57		

l 12059

✓ 9.30	b 1 r	9.40	9.62 9.72 = 9.68 =	.18 .04 .14
9.62	r o c	9.62		
9.72	r 2 d	9.92		

l 10759

✓ 9.92	d 1 r	10.02	10.37 = 10.20	.18 .17
10.37	r 2 e	10.57		

B 1999

✓ 11.04	g 1 r	11.14	11.14 = 11.14	oo oo
11.14	r 2 h	11.34		

B 103

✓ 10.57	e 1 r	10.67	10.72 = 10.70	.03 .02
10.72	r 2 f	10.82		

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1899phae.proj..711B

June 23 1899

h m
1 5-3. 0 + 5-4° 20' (1900)

l 13185-

11.84	h 2 r	11.54	11.59 11.79 = 11.64	.10 .05- .15-
✓ 11.59	r 0 k	11.59		
11.79	r 1 l	11.89		

l 13101

✓ 11.34	h 2 r	11.54	11.49 = 11.52	.02 .03
11.49	r 1 k	11.59		

l 15785-

✓ 9.92	d 4 r	10.32	10.27 = 10.30	.02 .03
10.27	r 3 + E	10.57		

l 14691

9.62	c 2 r	9.82	9.92 10.47 = 10.07	.25- .05- .40
✓ 9.92	r 0 d	9.92		
10.47	d 1 E	10.57		

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1899phae.proj..711B

June 29, 1899

l 17055

9.62	c 1 r	9.72	9.72 = 9.72	00	00	
✓ 9.72	r 2 d	9.92				

l 21757

✓ 9.92	d 2 r	10.12	10.37 = 10.24	.12	.13	
10.37	r 2 E	10.57				

l 21797

✓ 9.92	d 2 r	10.12	10.27 = 10.20	.08	.07	
10.27	r 3 E	10.57				

l 21541

✓ 9.62	c 2 r	9.82	9.62 = 9.72	.10	.10	
9.62	r 3 d	9.92				

l 19975

		10.02	10.47 = 10.24	.22	.23	
✓ 9.92	d 1 r					
10.47	r 1 E	10.57				

l 19945

✓ 9.62	d 1 r	9.72	9.92	10.47 = 10.04	.32	.12	.43
9.92	r 0 d	9.92					
10.47	r 1 E	10.57					

l 19859

✓ 9.92	d 1 r	10.02	10.37 = 10.20	.18	.17	
10.37	r 2 E	10.57				

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1899phae.proj..711B

June 29 1899

d 19739

✓ 9.62 c 2 r 9.82 9.62 = 9.72 .10 .10
9.62 r 3 d 9.92

d 20346

✓ 11.04 g 2 r 11.24 11.14 = 11.19 .05 .05
11.14 r 2 h 11.34

d 20129

✓ 11.04 g 2 r 11.24 11.24 = 11.24 00 00
11.24 r 1 h 11.34

✓ d 21534
Too near edge of plate.

✓ d 19235
Too near edge of plate.

d 18186

✓ 11.09 h = 1 < 11.69
r m.s

d 18720

✓ 9.62 a 1 r 9.72 9.62 = 9.67 .05 .05
9.62 r 3 d 9.92

d 18508

9.90 k 1 r 9.40 9.62 9.72 = 9.58 18 .04 .14
✓ 9.62 r 0 c 9.62
9.72 r 2 d 9.92

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1899phae.proj..711B

June 29, 1899

l 16628

✓ Too near edge of plate

l 16662

9.90	b 2 r	9.50	9.62	9.72 = 9.61	.11	.01	.11
✓ 9.62	r o c	9.62					
9.72	r 2 d	9.92					

l 16870

✓ 9.92	d 1 r	10.02	10.27	= 10.14	.12	.13	
10.27	r 3 e	10.37					

l 17038

✓ 9.62	a 1 r	9.72	9.72	= 9.72	.00	.00	
9.72	r 2 d	9.92					

l 16532

✓ 9.62	a 2 r	9.82	9.72	= 9.77	.05	.05	
9.72	r 2 d	9.92					

l 16226

✓ 9.62	a 1 r	9.72	9.72	= 9.72	.00	.00	
9.72	r 2 d	9.92					

l 16391

✓ 9.92	d 2 r	10.12	10.27	= 10.20	.08	.07	
10.27	r 3 e	10.37					

l 16525

✓ 8.48	a 3 r	8.78	9.10	= 8.94	.16	.16	
9.10	r 2 f	9.30					

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1899phae.proj..711B

June 29, 1899.

l 16692

✓	9.30	b 1 r	9.40	9.42 = 9.41	.01	.01
	9.42	r 2 c	9.62			

l 17190

✓	9.62	a 1 r	9.72	9.82 = 9.77	.05	.05
	9.82	r 1 d	9.92			

l 16735

	9.30	b 1 r	9.40	9.62 9.72 = 9.58	.18	.04	.14
✓	9.62	r 0 c	9.62			
	9.72	r 2 d	9.92			

l 16764

✓	9.62	c 2 r	9.82	9.72 = 9.77	.05	.05
	9.72	r 2 d	9.92			

l 19239

✓	9.62	c 1 r	9.72	9.72 = 9.72	00	00
	9.72	r 2 d	9.92			

l 19215

✓	9.62	c 1 r	9.72	9.72 = 9.72	00	00
	9.72	r 2 d	9.92			

l 19178

Poor plate

l 18498

✓	9.62	c 1 r	9.72	9.72 = 9.72	00	00
	9.72	r 2 d	9.92			

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1899phae.proj..711B

June 29 1899

l 18491

9.30	b i r	9.40	9.62	9.72 = 9.68	.61	.21	.01	.21
✓ 9.62	r o c	9.62						
9.72	r i d	9.92						

l 18464

9.30	b i r	9.40	9.62	9.82 = 9.61	.21	.01	.21	
✓ 9.62	r o c	9.62						
9.82	r i d	9.92						

l 18313

9.92	d 2 r	10.12	10.47 = 10.30	.18	.17		
✓ 10.47	r i c	10.57					

l 18990

9.30	b 3 r	9.60	9.62	9.82 = 9.68	.08	.06	.14
✓ 9.62	r o c	9.62					
9.82	r i d	9.92					

l 18187

✓ 9.92	d = i	< 10.02
	r m s	

l 19670

✓ 9.30	b i r	9.40	9.52 = 9.46	.06	.06
9.52	r i c	9.62			

l 19459

✓ 9.62	c i r	9.72	9.72 = 9.72	.00	.00
9.72	r 2 d	9.92			

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1899phae.proj..711B

June 29 1899.

l 17823

✓ 11.04 g 1 r 11.14 11.24 = 11.19 .03⁻ .03⁻
11.24 r 1 h 11.34

l 17⁻3⁻3

✓ 9.92 d 1 r 10.02 10.47 = 10.24 .22 .23
10.47 r 1 ε 10.5⁻7

l 17 $\overset{401}{5^{-}19}$

✓ 9.92 d 1 r 10.02 10.37 = 10.20 .18 .17
10.37 r 2 ε 10.5⁻7

l 17279

✓ 9.92 d 1 r 10.02 10.47 = 10.24 .22 .23
10.47 r 1 ε 10.5⁻7

l 20⁻79

✓ 11.89 l = 1 2 11.99
r m S

l 15⁻893

✓ 9.92 d 1 r 10.02 10.37 = 10.20 .18 17
10.37 r 2 ε 10.5⁻7

l 16981

9.30 t 2 r 9.5⁻0 9.5⁻2 = 9.5⁻1 .01 .01
✓ 9.52 r 1 C 9.62

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1899phae.proj..711B

July 1. 1899.

New Variable Star in Horologium.
R.A. 2h 21m.4 −60° 6 (1875 Approx.)
Comparison Stars marked on B 14887

B 16992
✓ 11.59 l = .2 < 11.79
r m.s

B 15160 Sp.
✓ 9.74 e 2 r 9.94 10.12 10.87 = 10.14 .20 .02 .23
10.12 r 0 f 10.12
10.87 r 1 g 10.47

B 17184
✓ 11.94 m = 1 < 12.04
r m.s

B 17156
✓ 11.94 m = 1 < 12.04
r m.s

B 17018
✓ 11.94 m = 1 < 12.04
r m.s

B 17303
✓ 10.79 h 2 r 10.99 10.11 = 11.05 .06 .06
10.11 r 1 k 11.21

✓ B28278
11.59 l 2 r 11.79 07 08 11.64 = 11.72
11.64 r 3 m 11.94

✓ B27946
11.21 k 3 r 11.51 06 06 11.39 = 11.45
11.39 r 2 l 11.59

✓ B28308
11.59 l 2 r 11.79 03 02 11.74 = 11.76
11.74 r 2 m 11.94

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1899phae.proj..711B

July 1, 1899.

h m
2 21.4 −60° 6′ (1875 approx)

B 18338

✓ 12.34 n = .1 < 12.44

r n.S

B 17378 Sp.

8.16 a = .1 < 8.26

✓ r n.S

B 17537 Sp

✓ 10.47 g = .1 < 10.57

r n.S

B 17758

✓ 10.99 h 2 r 10.99 11.11 = 11.05 .06 .06

11.11 r 1 h 11.21

l 17921

✓ 10.79 h = .2 < 10.99

r n.S

l 17925

✓ 11.21 h 2 r 11.41 11.49 = 11.45 .04 .04

11.49 r 1 l 11.59

B 18069

✓ 11.21 h 2 r 11.41 11.49 = 11.45 .04 .04

11.49 r 1 l 11.59

✓ B 18275

11.94 m = .1 < 12.04

r n.S

B 28337

11.59 l 1, h < 11.69

B 28485

82
11 X 6 03 02
8

11.59 l 2 r 11.79 11.84
8
11.V4 r 1 m 11.94

B 285-30

Surface

B 28605

12.4
11.94 m 1 h

✓ B 28972

10.8
10.79 h 1 h

B 28211

Surface

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1899phae.proj..711B

July 1, 1899
h m
2 21.4 −60° 6 (1875 ephem)

B 18521
✓ 11.59 l = 1 < 11.69
rms

B 28983
11.94 m s h 12.0

B 28229
Sulfur

B 18892
✓ 11.59 l = 1 < 11.69
rms

✓ A 4786
Too near edge of M.

✓ B 18742
11.59 l = .2 < 11.79
rms

B 20024
✓ 10.79 h 1 r 10.89 11.01 = 10.95 .06 .06
11.01 r 2 h 11.21

B 20072
✓ 10.47 g 2 r 10.67 10.69 = 10.68 .01 .01
10.69 r 1 h 10.79

B 20168
✓ 9.74 ε = .1 < 9.84
rms

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1999phaec.proj...11B

July 3, 1899.
h m
2 21.4 -60 6 (1875-offsets)

B 20946

✓ 11.21 k = .1 < 11.31
r n.s

B 20919

✓ 11.59 l = .1 < 11.69
r n.s

B 22278

✓ 11.94 m = .1 < 12.04
r n.s

B 22081

✓ 11.94 m 1 r 12.04 11.39 = 11.72 .32 .33
11.39 r 2 ~~k~~ m 11.59

B 21960

✓ 9.74 ε = .2 < 9.94
r n.s

B 20576

✓ 10.79 h 2 r 10.99 11.01 = 11.00 .01 .01
11.01 r 2 k 11.21

B 20172

✓ 10.47 g 8 r 10.77 10.59 = 10.68 .09 .09
10.59 r 2 h 10.79

B 21818

✓ 10.47 g 1 r 10.57 10.59 = 10.58 .01 .01
10.59 r 2 h 10.79

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1899phae.proj..711B

July 3, 1899
2 21.4 −60° 6 (1875 Approx.)

B 20735

✓ 11.94 m = .1 < 12.04
r m.s

B 20838

✓ 10.79 h i r 10.89 11.01 = 10.95 .06 .06
11.01 r 2 k 11.21

B 21904

10.12 f i r 10.22 10.37 = 10.30 .08 .07
✓ 10.37 r 1 g 10.47

~~B 14337~~

12.34 ~~m = .1~~ < 12.44
~~r m.s~~

~~A 3438~~

✓ 11.94 m = .2 < 12.14
r m.s

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1899phae.proj..711B

R Trianguli
July 5 1899
h m s
2 31.0 +33 5 0 (1900)
Comp. Stars marked on l 2235

l 2005

7.28			7.48	7.50	7.80 = 7.59	11	09	21
~~7.12~~	a	2 r	~~7.34~~	~~7.37~~	~~7.55 = 7.42~~	.08	.05	.13
7.50 ~~7.37~~	r	0 b	~~7.27~~	7.50				
7.80 ~~7.55~~	r	2 c	~~7.75~~	8.00				

l 2931

10.42			10.62	10.82 = 10.72	10	10	
~~10.92~~	b	2 r	~~11.12~~	~~11.37 = 11.24~~	.12	.13	
10.82							
~~11.37~~	r	3 k	~~11.67~~	11.12			

l 15788

7.50			7.70	7.90 = 7.80	10	10	
~~7.37~~	b	2 r	~~7.57~~	~~7.63 = 7.61~~	.04	.04	
✓ 7.90							
~~7.63~~	r	1 c	~~7.75~~	8.00			

l 14118

8.35			8.45	8.70 = 8.58	13	12	
✓ ~~8.17~~	d	1 r	~~8.27~~	~~8.42 = 8.34~~	.07	.08	
8.70							
~~8.42~~	r	3 e	~~8.72~~	9.00			

l 1981 Sp.

7.50			7.80	7.80 = 7.80	00	00	
~~7.37~~	f	3 r	~~7.67~~	~~7.53 = 7.61~~	.06	.06	
7.80							
~~7.53~~	r	2 c	~~7.75~~	8.00			

l 12057

9.00			9.40	9.12 9.52 = 9.35	05	23	17
✓ ~~8.72~~	e	4 r	~~9.12~~	~~9.62 9.94 = 9.56~~	.44	.06	.38
9.12 ~~9.62~~	r	0 f					
9.52 ~~9.94~~	r	2 g	~~9.62~~	9.12			
			~~10.14~~	9.72			

l 12082

9.00			9.20	8.92 = 9.06	14	14
~~8.72~~	e	2 r	~~8.92~~	~~9.42 = 9.17~~	.25	.25
✓ 8.92						
~~9.42~~	r	2 f	9.62	9.12		

l 13150

9.72			10.02	10.42 11.02 = 10.49	47	07	53
~~10.14~~	g	3 r	~~10.44~~	~~10.92 11.57 = 10.98~~	.54	.06	.59
✓							
10.42 ~~10.92~~	r	0 h	~~10.92~~	10.42			
11.02 ~~11.57~~	r	1 k	~~11.67~~	11.12			

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1899phae.proj..711B

July 5, 1899.
h m
2 31.0 +33° 5' (1900)

l 12188

9.00 8.72 a 2 r — 9.10 8.92 = 9.01 09 09
8.92 9.42 r 2 f — 8,82 9.42 = 9.12 .30 .30
9.62 9.12

l 13178

9.00 8.72 e = 2 — 8.92 9.20
r n.s

l 12283

8.35 8.17 d 2 r — 8.55 8.90 = 8.72 17 18
8.90 8.62 r 1 E — 8.87 8.62 = 8.50 .13 .12
8.72 9.00

l 13797

7.28 7.12 a 2 r — 7.48 7.50 7.80 = 7.59 11 09 21
7.50 7.37 r 1 f — 7.82 7.37 7.55 = 7.41 .09 04 .14
7.80 7.55 7.37 7.50
7.70 8.00

l 13792

8.00 7.75 e 1 r — 8.10 8.25 = 8.18 08 07
8.25 8.07 r 1 d — 7.85 8.07 = 7.96 .11 .11
8.17 8.35

l 14126

8.35 8.17 d 2 r — 8.55 8.80 = 8.68 13 12
8.80 8.02 r 2 E — 8.87 8.02 = 8.44 .07 .08
8.72 9.00

l 15716

Poor plate.

l 15766

7.28 7.12 a 2 r — 7.48 7.40 = 7.44 04 04
7.40 7.27 r 1 f — 7.32 7.27 = 7.30 .02 .03
7.37 7.50

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1899phae.proj.7118

July 5-1899.
h m
2 31.0 + 88° 5-d (1900)

l 2184

8.00		8.20	8.15 = 8.18	02	03
7.75-	c 2 r	7.95-	7.97 = 7.96	.01	.01
8.15 7.97	r 2 d	8.17	8.35-		

l 1175-3

10.42		10.62	10.92 = 10.77	15-	15-
✓ 10.92	h 2 r	11.12	11.47 = 11.30	.18	.17
10.92 11.47	r 2 k	11.67	11.12		

B 2192 Sp.

7.50			
7.37	b = 1	7.47	7.60
	r.n.s		

l 2875-

10.42		10.62	11.02	10.82	20	20
10.92	h 2 r	11.12	11.07 = 11.04		22	23
11.02 11.07	r 1 k	11.67	11.12			

l 417

8.00		8.10	8.15- = 8.12	02	03
7.75-	c 1 r	7.85-	7.97 = 7.91	.06	.06
8.15- 7.97	r 2 d	8.17	8.35-		

l 1895-

7.50		7.60	7 8.80 =	8.70	10	10
7.37	f 1 r	7.47	7.85- =	7.81	.04	.04
7.80						
8.80 7.85-	r 2 c	7.75-	8.00			

l 5-490

8.00		8.20	8.25- = 8.22 =	02	03
✓ 7.75-	c 2 r	7.95-	8.07 = 8.01	.06	.06
8.25- 8.07	r 1 d	8.17	8.35-		

✓

l 5-308

✓ 9.12		9.22	9.52 9.37	15	15-
9.62	f 1 r	9.72	9.94 = 9.83	.11	.11
9.52 9.94	r 2 g	10.14	9.72		

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1899phae.proj..711B

July 5 1899.
h m h
2 31.0 + 83 5 0 (1900)

✓

l 7695
Too near edge of plate.

l 7690

7.28		7.38	7.50	7.80 = 7.56	18	06	24
~~7.12~~	a 1 r	~~7.22~~	~~7.37~~	~~7.53~~	~~7.38~~	.16	.01 .17
~~7.50~~ ~~7.37~~	r 0 b	~~7.37~~	7.50				
~~7.80~~ ~~7.58~~	r 2 c	~~7.78~~	~~8.00~~				

l 11823

9.72		10.02	10.42	11.02	10.49	47	07 53
~~10.14~~	g 3 r	~~10.44~~	~~10.92~~	~~11.57~~ =	10.98	.54	.06 .59
10.42 ~~10.92~~	r 0 h	~~10.92~~	10.42				
11.02 ~~11.57~~	r 1 k	~~11.67~~	11.12				

l 16829

9.12		9.42	9.72	10.22 = 9.79	37	07	43
~~9.62~~	f 3 r	~~9.92~~	~~10.14~~	~~10.72~~ = 10.26	.84	.12	.46
9.72 ~~10.14~~	r 0 g	~~10.14~~	9.72				
10.22 ~~10.72~~	r 2 h	~~10.92~~	10.42				

l 2149
Too near edge of plate.

l 2144

7.28		7.48	7.30 = 7.39	09	09	
~~7.12~~	a 2 r	~~7.32~~	~~7.17~~ = 7.24	.08	.07	
7.30 ~~7.17~~	r 2 f	7.50 ~~7.37~~				

l 15958

8.35		8.45	9.00	8.92 = 8.79	34	21	13
~~8.17~~	d 1 r	~~8.27~~	~~8.72~~	~~9.42~~ = 8.80	.53	.08	.62
✓9.00 ~~8.72~~	r 0 e	~~8.72~~	9.00				
8.92 ~~9.42~~	r 2 f	~~9.62~~	9.12				

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1899phae.proj..711B

July 5 1899.
h m
2 31.0+33 5 0 (1900)

10.42 l 16888
10.92 h 2 r 10.62 11,02 = 10.82 20 20
11.67 ~~11.77~~ 11.12 11.57 = 11.34 .22 .23
11.02 ✓ 11.57 r 1 k 11.12 11.67

l 16886
10.42 92 h
10.74 g = 2 ~~11.12~~ ~~10.84~~ 10.62
✓ r m.s

l 24424
8.85 8.55 9,00 8.92 = 8.82 27 18 10
~~8.17~~ d 2 r ~~8.37 8.72 9.42 = 8.84 .47 .12 .08~~
9.00 ~~8.72~~ r 0 2 e ~~8.72 9.00~~
8.92 ~~9.42~~ r x f ~~9.62 9.12~~

l 16736
~~11.12 11.57 = 11.34 .22 .23~~
10.42 10.62 11,02 = 10.82 20 20
~~10.92~~ h 2 r
11,02 ✓ ~~11.57~~ r 1 k ~~11.67~~ 11.12

l 2771
9,00 e = 4 ~~9.12~~ 9.40
~~8.72~~ r m.s

l 2717
Too near edge of plate.

l 5365
9.12 9.82 9.52 = 9.42 10 10
✓ 9.62 f 2 r ~~9.82 9.94 = 9.88 .06 .06~~
9.52 9.94 r 2 g 10.14 9.72

l 5199
✓ Too near edge of plate

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1899phae.proj..711B

July 3 1899
2 31.0 + 33° 5-0 (1900)

l 75-20

	7.28		7.48	7.40 =	7.44	04 04
✓	7.12	a 2 r	7.02	7.27 =	7.30	.02 .03
7.40	7.27	r 1 h	7.87	7.50		

l 45-87

	9.00					
✓	8.72	e 1 r	28.82	9.13		
		r 1 s				

l 4794

	9.72		9.82	10.22 =	10.02	20 20
✓	10.14	g 1 r	10.24	10.72 =	10.48	.24 .24
10.22	10.72	r 2 h	10.92	10.42		

l 4880

	9.72		10.02	10.22 =	10.12	10 10
✓	10.14	g 2 r	10.44	10.72 =	10.58	.14 .14
	10.22					
	10.72	r 2 h	10.92	10.42		

l 4894

✓	9.72	g 2 r	9.92	10.12 =	10.02	10 10
	10.12	r 3 h	10.42			

l 4946

	9.72		10.02	10.22 =	10.12	10 10
✓	10.14	g 3 r	10.44	10.72 =	10.58	.14 .14
10.22	10.72	r 2 h	10.92	10.42		

l 5-5-72

	7.50		7.60	7.80 =	7.70	10 10
✓	7.87	h 1 r	7.47	7.55 =	7.51	.04 .04
7.80	7.55	r 2 c	7.95	8.00		

R 1841 Sp.

	7.28		7.48	7.40 =	7.44	04 04
	7.12	a 2 r	7.02	7.27 =	7.30	.02 .03
7.40	7.27	r 1 h	7.87	7.50		

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1899phae.proj..7118

July 5, 1899.
h m
2 31.0 +33°5' (1900)

l 2705
e 6 r
r 1 f

9.00 8.72 9.02 9.52 — 9.60 9.02 = 9.31 29 29 — 9.92 9.32 = 9.42 .10 .10 — 9.62 9.12

l 2867
Too near edge of plate.

l 10343 Sp.
t = .4
r m.s

7.50 ✓ 7.87 — ~~7.77~~ 7.90

l 15556
a 2 r
r o t
r 2 c

7.28 7.12 7.50 ✓ 7.87 ~~7.80~~ 7.55 — 7.48 7.50 7.80 = 7.59 11 09 21 — 7.32 7.87 7.55 = 7.41 .09 .04 .14 — 7.87 7.50 — 7.75 8.00

l 14371
e 2 r
r 1 f

9.00 8.72 ✓ 9.02 9.52 — 9.20 9.02 = 9.11 09 09 — 8.92 9.52 = 9.22 .10 .10 — 9.62 9.12

l 16207
e 1 2 r
r o f
r 3 g

9.00 8.72 9.12 9.62 9.42 9.84 — 9.20 9.12 9.42 = 9.25 05 13 17 — 8.92 9.62 9.84 = 9.46 .54 .16 .88 — 9.62 9.12 — 10.14 9.72

l 7824
D 2 r
r 1 d

8.00 7.75 ✓ 8.25 8.07 — 8.20 8.25 = 8.22 02 03 — 7.95 8.07 = 8.01 .06 .06 — 8.17 8.35

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1899phae.proj..711B

July 5 1899.
h mt
ζ 31.0 +33 5 0 (1900)

l 7899

8.00		8.10	8.35	7.80 =	8.08	02	27 28
7.75	c 1 r	7.80	8.17	8.02 =	8.18	33	.01 .34
8.35 8.17	r 0 d	8.17	8.35				
7.80 8.02	r 2 e	8.72	9.00				

l 7882

✓ 9.00		9.10	8.62 =	8.81	29	29	
8.72	e 1 r	8.82	9.02 =	8.92	10	10	
8.62 9.02	r 6 f	9.62	9.12				

l 10080

9.12		9.22	9.52 =	9.37	15	15	
✓ 9.62	f 1 r	9.72	9.94 =	9.83	11	.11	
9.52 9.94	r 2 g	10.14	9.72				

l 10250

9.72		9.92	10.12 =	9.92	10.02	10	10
✓ 10.14	g 2 r	10.34	10.62 =	10.48	.14	.14	
10.12							
10.62	r 3 h	10.92	10.42				

l 9296

7.50		7.60	7.80 =	7.70	10	10	
✓ 7.37	f 1 r	7.47	7.55 =	7.51	.04	.04	
7.80 7.55	r 2 c	7.75	8.00				

l 9608

✓ 8.00		8.30	7.85 =	8.08	22	23	
7.75	s 3 r	8.05	7.67 =	7.86	.19	.19	
7.85 7.67	r 5 d	8.17	8.35				

l 9547

✓ 7.50		7.70	8.00	8.15 =	7.95	25	05 20
7.37	t 2 r	7.57	7.75	7.97 =	7.76	.19	.01 .21
✓ 8.00 7.75	r 0 e	7.75	8.00				
8.15 7.97	r 2 d	8.17	8.35				

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1899phae.proj..711B

July 8 - 1899.
h 3 m
2 21.0 + 23° 50' (1900)

l 2643
Too near edge of plate.

l 17280

9.00			9.20	8.92	9.06	.14 .14
✓ ~~8.72~~	ε 2 r		~~8.92~~	~~9.42~~ =	~~9.17~~	~~.25~~ ~~.28~~
~~8.92~~						
~~9.42~~	r 2 f		~~9.62~~	9.12		

l 19284
✓ Too near edge of plate.

l 19217

11.12					
✓ ~~11.67~~	k=1		~~11.77~~	11.22	
	r m.s				

l 18729

10.42			10.62	11.02 =	10.82	.20 .20
~~10.92~~	h 2 r		~~11.12~~	~~11.57~~ =	~~11.34~~	.22 .23
✓ 11.02 ~~11.57~~	r 1 h		~~11.67~~	11.12		

l 19289

10.42			10.62	10.92	10.77	.15 .15
~~10.92~~						
✓ 10.92	h 2 r		~~11.12~~	~~11.47~~ =	~~11.30~~	.18 .17
~~11.47~~	r 2 h		~~11.67~~	11.12		

l 17051

9.00				
~~8.72~~	ε = .4		~~9.12~~	9.40
✓	r m.s			

l 16963
✓ Too near edge of plate.

9.72	l 17201.3		10.02	10.12 =	10.07	.05 .05
~~10.14~~	g 3 r		~~10.44~~	~~10.62~~ =	~~10.53~~	.09 .09
✓ 12.12 10.62	r 3 h		~~10.92~~	10.42		

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1899phae.proj..711B

July 8 1899.
2 31.0 + 33° 5′ 0 (1900)

l 19455

9.00 — 8.72 — 9.12 ✓ 9.62 — 9.52 9.94 — e 3 r — r o f — r 2 g

9.30 9.12 9.52 = 9.31 01 19 21
9.02 9.62 9.94 = 9.53 .51 .09 .41
9.62 9.12
10.14 9.72

l 19456

9.12 — 9.62 — 9.52 ✓ 9.94 — f 2 r — r 2 g

9.32 9.52 = 9.42 10 10
9.82 9.94 = 9.88 .06 .06
10.14 9.72

l 19482

9.00 — 8.72 — 8.82 ✓ 9.32 — e 2 r — r o f

9.20 8.82 = 9.01 19 19
8.92 9.32 = 9.12 .20 .20
9.12
9.62

l 19669

8.35 — 8.17 — 8.90 ✓ 8.62 — d 2 r — r 1 e

8.55 8.90 = 8.72 17 18
8.87 8.62 = 8.50 .13 .12
9.00
8.72

l 19816

7.50 — 7.87 — 8.00 ✓ 7.75 — 8.15 — 7.97 — b 2 r — r o c — r 2 d

7.70 8.00 8.15 = 7.95 20 05 20
7.87 7.75 7.97 = 7.76 .19 .01 .21
8.00
7.75
8.35
8.17

l 19860

7.50 — 7.87 ✓ 7.80 — 7.55 — f 2 r — r 2 e

7.70 7.80 = 7.75 05 05
7.87 7.55 = 7.56 .01 .01
8.00
7.75

l 18092

9.12 — 9.62 ✓ 9.52 — 9.94 — f 1 r — r 2 g

9.22 9.52 = 9.37 15 15
9.72 9.94 = 9.83 .11 .11
9.72
10.14

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1899phae.proj..711B

July 8 1899.
h m
2 31.0 +33 8 0 (1900)

l 18469

9.12	f 2 r	9.82	9.62 =	9.47	15	15
9.62		9.82	10.04 =	9.93	.11	.11
✓ 9.62		9.72				
10.04	r 1 g	10.14				

l 22249

9.72		10.02	10.82 =	10.17	15	15
/ 10.14	g 3 r	10.44	10.82 =	10.63	.19	.19
10.32		10.42				
10.82	r 1 h	10.92				

l 22342

10.42		10.62	11.02 =	10.82	20	20
10.92	h 2 r	11.12	11.37 =	11.24	.22	.23
✓ 11.02		11.12				
11.37	r 1 h	11.67				

l 22206

9.72		9.92	10.22 =	10.07	15	15
✓ 10.14	g 2 r	10.34	10.72 =	10.53	.19	.19
10.22		10.42				
10.72	r 2 h	10.92				

l 22248

✓ Too near edge of plate.

l 21614

✓ Too near edge of plate.

l 21613

8.00		8.20	8.25 =	8.22	02	03
✓ 7.75	c 2 r	7.95	8.07 =	8.01	.06	.06
8.25		8.35				
8.07	r 1 d	8.17				

l 19995

✓ Too near edge of plate

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1899phae.proj..711B

July 8 1899.
hf
2 31.0 + 33 5-6 (1900)

l 20127

7.50
7.37
7.80
7.83

b 1 r
r 2 c

7.60 7.80 = 7.70 10 10
7.47 7.85 = 7.81 .04 .04
8.00
7.75

l 21999

9.00
8.72
8.92
9.42

e 2 r
r 2 f

9.26 8.92 = 9.06 14 14
8.92 9.42 = 9.17 .25 .25
9.12
9.62

l 2235

8.00
7.75
8.25
8.07

c 1 r
r 1 d

8.10 8.25 = 8.18 08 07
7.83 8.07 = 7.96 .11 .11
8.35
8.17

✓ l 10109
Poor pl.

✓ l 10107
Poor pl

✓ l 13643
Poor pl.

✓ l 13764
Poor pl.

✓ l 15770
Poor pl.

✓ l 11761
9.00 E = .1 9.10
r n.s

✓ l 15889
Poor pl.

✓ l 15861
Poor pl.

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1899phae.proj..711B

July 10, 1899.

Measures of R Horologium

α 49.7 — 50° 21 (1875)

Comparison Stars, Marhudon B 5691.

B 8929

✓ ~~7.91~~ ~~7.99~~ C 2 r ~~7.51~~ ~~7.99~~ = ~~7.75~~ ~~.24~~ ~~.24~~

~~7.99~~ r 3 d ~~8.29~~

B 13834

✓ ~~9.98~~ ~~10.56~~ h 3 r ~~10.28~~ ~~10.56~~ = ~~10.42~~ ~~.14~~ ~~.14~~

r 2 k ~~10.76~~

~~9.48~~ B 1208-4 Sp.

✓ f = .1 ~~29.55~~

r n s

B 12298

✓ ~~11.16~~ l = .1 ~~11.26~~

r n s

B 12359 Sp.

✓ ~~8.29~~ d = .2 ~~28.49~~

r n s

B 12414 Sp

✓ ~~8.29~~ d = .3 ~~28.59~~

r n s

B 12470

✓ ~~9.98~~ ~~10.56~~ h 3 r ~~10.28~~ ~~10.56~~ = ~~10.42~~ ~~.14~~ ~~.14~~

r 2 k ~~10.76~~

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1899phae.proj..711B

July 10 1899.
h m
2 49.7 -0° 0' 21" (1870)

B 11°-10°

✓ ~~11.68~~ ~~m = .1~~ ~~< 11.78~~
r n.s

B 11770 Sp.

✓ ~~7.81~~ c = .3 ~~< 7.61~~
r n.s

B 11980-3

✓ ~~11.68~~ ~~m = .1~~ ~~< 11.78~~
r n.s

B 10014

~~10.76~~ k 2 r ~~10.96 11.16 11.38 = 11.17 .21 .01 .21~~
✓ ~~11.16~~ r 0 l ~~11.16~~
~~11.38~~ r 9 m ~~11.68~~

B 10010

✓ ~~11.16~~ l 2 r ~~11.36 11.48 = 11.42 .06 .06~~
~~11.48~~ r 2 m ~~11.68~~

B 10280 Sp

✓ ~~7.81~~ c = .3 ~~< 7.61~~
r n.s

✓ B 6994 Sp.
Too near edge of plate.

✓ B 8795 ~~7.21~~
~~7.21~~ r 1C ~~7.81~~

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1899phae.proj..711B

July 10 1899
h m ° ′
2 49.7 — 5 0 21 (1875)

B 8860 Sp.

✓ ~~7.21~~ c 2 r ~~7.51 7.99 = 7.75 .24 .24~~
~~7.99~~ r 3 d ~~8.29~~

B 15 485

✓ ~~7.21~~ c 1 r ~~7.41 7.79 = 7.60 .19 .19~~
~~7.79~~ r 5 d ~~8.29~~

B 106 52

✓ ~~5.33~~ a 2 r ~~5.53 6.21 = 5.87 .34 .34~~
~~6.21~~ r 3 b ~~6.55~~

B 90 23

✓ Too near edge of plate

B 9970

✓ ~~11.16~~ b 1 r ~~11.26 11.48 = 11.37 .11 .11~~
~~11.48~~ r 2 m ~~11.68~~

B 6894 Sp.

✓ ~~5.33~~ a 3 r ~~5.63 6.11 = 5.87 .24 .24~~
~~6.11~~ r 4 b ~~6.51~~

B 6897

✓ a 3rd & not sure ~~6.81~~
~~6.81~~ r 5 c ~~7.91~~

B 16 336

✓ ~~8.29~~ d 1 r ~~8.39 8.47 = 8.43 .04 .04~~
~~8.47~~ r 1 e ~~8.57~~

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1899phae.proj..711B

July 10 1899.
h m
2 49.7 −5° 21' (1875)

B17206

✓ ~~10.76~~ ~~k 1 r~~ ~~10.86~~ ~~10.96~~ = ~~10.91~~ ~~.05~~ ~~.05~~
~~10.96~~ ~~r 2 l~~ ~~11.16~~

B17205-0

✓ ~~10.76~~ ~~k 1 r~~ ~~10.86~~ ~~10.96~~ = ~~10.91~~ ~~.05~~ ~~.05~~
~~10.96~~ ~~r 2 l~~ ~~11.16~~

B17205-1

✓ ~~10.76~~ ~~k 1 r~~ ~~10.86~~ ~~10.96~~ = ~~10.91~~ ~~.05~~ ~~.05~~
~~10.96~~ ~~r 2 l~~ ~~11.16~~

B15-030

✓ ~~11.16~~ ~~l 1 r~~ ~~11.26~~ ~~11.48~~ = ~~11.37~~ ~~.11~~ ~~.11~~
~~11.48~~ ~~r 2 m~~ ~~11.68~~

B15-182 Sfu.

✓ ~~8.29~~ ~~d = 1~~ ~~< 8.29~~
r.m.s

B15-278

✓ ~~7.91~~ ~~a 1 r~~ ~~7.41~~ ~~8.09~~ = ~~7.75~~ ~~.34~~ ~~.34~~
~~8.09~~ ~~r 2 d~~ ~~8.29~~

B16464

✓ ~~8.57~~ ~~8.7~~ ~~9.15~~
~~7.91~~ e 2 r ~~8.37~~ ~~8.77~~ = ~~8.96~~ ~~.19~~ ~~.19~~
~~9.15~~ r 2 f ~~9.45~~

✓ B16793

~~9.45~~ ~~9.65~~ ~~9.70~~ ~~9.88~~ = ~~9.74~~ ~~.09~~ ~~.04~~ ~~.14~~
~~9.70~~ ~~9.70~~
~~9.88~~ ~~9.98~~

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1899phae.proj..711B

July 10 1899.
h m
2 49.7 − 5°0 21′ (1875)

B16994

✓ 9.90 g 2 r 9.90 9.88 = 9.89 .01 .01
9.88 r 1 h 9.98

B17131

✓ 9.98 h 4 r 10.38 10.66 = 10.52 .14 .14
10.66 r 1 k 10.76

B12523

✓ 9.98 h 2 r 10.18 10.66 = 10.42 .24 .24
10.66 r 1 k 10.76

B12689

✓ 7.81 c 2 r 7.51 8.19 = 7.85 .34 .34
8.19 r 1 d 8.29

B17471

✓ 11.16 f 3 r 11.46 11.58 = 11.52 .06 .06
11.58 r 1 m 11.68

B17604

✓ 10.76 k = .1 2 10.86
r n.s

B15099

✓ 11.16 f 2 r 11.36 11.58 = 11.47 .11 .11
11.58 r 1 m 11.68

B12798

✓ 5.33 a 2 r 5.33 6.41 = 5.97 .44 .44
6.41 r 1 b 6.51

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1899phae.proj..711B

July 10 1899.
h m
2 49.7 −5° 0′ 21″ (1875)

B 15-328

✓ ~~6.81~~ h 1 r ~~6.61~~ ~~7.21~~ = ~~6.91~~ ~~.30~~ ~~.30~~
~~7.21~~ r 1 c ~~7.31~~

B 15-376

✓ ~~5.83~~ a 2 r ~~5.83~~ ~~6.21~~ = ~~5.87~~ ~~.34~~ ~~.34~~
~~6.21~~ r 3 h ~~6.51~~

B 14011

✓ ~~10.76~~ h 1 r ~~10.86~~ ~~10.96~~ = ~~10.91~~ ~~.05~~ ~~.05~~
~~10.96~~ r 2 l ~~11.16~~

B 14924

✓ ~~11.16~~ l 2 r ~~11.26~~ ~~11.58~~ = ~~11.47~~ ~~11~~ ~~11~~
~~11.38~~ r 1 m ~~11.68~~

B 14-27

✓ ~~11.68~~ m 1 r ~~11.78~~

B 14-04

✓ ~~11.68~~ m 1 r ~~11.78~~

B 14-99

✓ ~~11.16~~ h = 1 ~~< 11.26~~
r m, s

✓ B 14727

~~11.68~~ m = 2 ~~< 11.88~~
r m, s

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1899phae.proj..711B

July 10 1899

h m
2 49.7 −5° 2′ (1875)

B 12 5-22

9.98
✓ 10.76 h 3 r 10.28 11.06 10.76 10.96 = 10.67 .89 .09 .29
10.76 r 0 k 10.76
10.96 r 2 l 11.16

B 18071

✓ 11.16 l 2 r 11.86 11.48 = 11.42 .06 .06
11.48 r 2 m 11.68

B 18924

✓ 11.16 l 2 r 11.86 11.58 = 11.47 .11 .11
11.58 r 1 m 11.68

B 1803 5-

✓ 11.16 l 2 r 11.86 11.48 = 11.42 .06 .06
11.48 r 2 m 11.68

B 18274

✓ 9.98 h 1 o 10.08 10.56 = 10.32 .24 .24
10.56 r 2 k 10.76

B 18497

✓ 8.57 g 3 r 8.84 9.25 = 9.06 .19 .19
9.25 r 2 f 9.45

B 18647

✓ 5.33 a 2 r 5.53 6.31 = 5.92 .39 .39
6.31 r 2 b 6.51

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1899phae.proj..711B

July 11 1899

h
2 49.7 − 5° 0′ 21″ (1875)

B 20142 Sp.

✓ Too near edge of plate.

B 20171

✓ ~~10.76~~ k 2 r ~~10.96~~

l m.s

✓ B 20172

Too near edge of plate.

B 20093

✓ ~~8.87~~ ~~9.45~~ ~~9.60~~ = ~~9.27~~ ~~.50~~ ~~.18~~ ~~.33~~

~~9.45~~ ~~9.60~~ E 2 r ~~8.77~~

~~9.45~~ r o f ~~9.45~~

~~9.60~~ r 1 g ~~9.70~~

B 20025

✓ ~~9.70~~ ~~9.88~~ = ~~9.89~~ ~~.01~~ ~~.01~~

~~9.88~~ g 2 r ~~9.90~~

r 1 h ~~9.98~~

R 19707

✓ ~~8.57~~ ~~9.25~~ = ~~8.96~~ ~~.29~~ ~~.29~~

~~9.25~~ e 1 r ~~8.67~~

r 2 f ~~9.45~~

R 20339

✓ ~~9.98~~ ~~10.66~~ = ~~10.42~~ ~~.24~~ ~~.24~~

~~10.66~~ h 2 r ~~10.18~~

r 1 h ~~10.76~~

B 20483 Sp.

✓ ~~8.29~~ ~~< 8.49~~

d = 2

r m.s

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1899phae.proj..711B

July 11 1899.
h 2 49.7 − 3-0 21 (1870)

B 20262

✓ ~~8.29~~ d = .2 ~~< 8.49~~
rms

✓ B 22081
Too near edge of plate.

✓ B 20947
Too near edge of plate

✓ B 20946
Too near edge of plate

B 22033

✓ ~~9.98~~ h 1r ~~10.08 10.66 = 10.37 .29 .29~~
~~10.66~~ r 1 h ~~10.76~~

B 20918

✓ ~~11.68~~ m = .1 ~~< 11.78~~
r m.s

B 20943

✓ ~~10.76~~ h = .2 ~~< 10.96~~
r m.s

B 21903

✓ ~~8.87~~ e 1r ~~8.67 9.33 = 9.01 .34 .34~~
~~9.33~~ r 1 f ~~9.45~~

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1899phae.proj..711B

July 11 1899.
h m
2 49.7 -5° 0' 21 (1875)

B 22051
9.98 h 2 r 10.18
h m s

B 22234
10.76 h 3 r 11.06 11.06 = 11.06 00 00
11.06 r 1 l 11.16

B 22281
11.16 l = 2 2 11.36
r m s

B 22147
10.76 h 1 r 10.86 11.06 = 10.96 .10 .10
11.06 r 1 l 11.16

B 6971
6.33 a 2 r 6.33 6.41 = 6.37 .44 .44
6.41 a 1 t 6.81

B 18645
5.03 r 3 a 5.33 5.03

B 22309
11.16 h = 2 2 11.36
r m s

B 6971
Star near edge of pl.

B 22344
11.16 l = 2 2 11.36
r m s

B 10016
Poor pl.

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1899phae.proj..711B

September 5. 1899.

Measures of χ_h Ceti

S 14.3 − 1° 26 D 10 − 1° 47′

Comparison Stars marked on Pl. 12613.

R 12613

✓	12.52	m 2 r	12.72	12.72 = 12.72	00	00
	12.72	r 2 m	12.92			

l 16208

✓	12.52	m = 1	2 12.62			
		r n.s				

l 17514

	10.19					
✓		d 2 r	10.39	10.49 = 10.44	.05	.05
	10.49	r 1 e	10.59			

l 16528

✓	12.52	m 1 r	12.62	12.82 = 12.72	.10	.10
	12.82	r 1 m	12.92			

l 16727

✓	11.29	g 2 r	11.49	11.62 11.75 = 11.62	.13	00 .13
	11.62	r 0 h	11.62			
	11.75	r 1 k	11.85			

l 15959

r	10.59	e 1 r	10.69	10.72 = 10.70	.01	.02
		r 2 f	11.06			

✓ l 15717

Useless

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1899phae.proj..711B

Sept. 5-99.

h
9 14.3 - 1°26 RQ -1°47.5

l 15-622

✓ 9.23 b 2 r 9.45 9.82 10.09 = 9.79 .34 .03 .30
9.82 r o c 9.82
10.09 r 1 d 10.19

l 16434

✓ 12.52 m 2 r 12.72 12.82 = 12.77 .03 .06
12.82 r 1 m 12.92

l 18912

✓ 10.06 f = .1 < 10.16
r m.s

l 17827

✓ 9.82 a 2 r 10.02 10.19 10.39 = 10.20 .18 .01 .19
10.19 r o d 10.19
10.39 r 2 E 10.59

l 16159

✓ 11.85 k = .1 < 11.95
r m.s

l 16288

✓ 12.52 m = .1 < 12.62
r m.s

l 18724

✓ 10.59 E 3.5 < 10.89
f m.s

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1899phae.proj..711B

September 6, 1899.

9 14.3 − 1° 26 B10 − 1° 47′

l 17052

✓ 10.19 d 1 r 10.29 10.49 = 10.39 .10 .10
10.49 r 1 e 10.59

l 15809

✓ 9.82 e 1 r 9.92 10.19 10.39 = 10.17 = .20 .02 .22
10.19 r 0 d 10.19
10.39 r 2 e 10.59

l 18410

✓ 9.82 e 1 r 9.92 9.99 = 9.96 .04 .03
9.99 r 2 d 10.19

April 21, 1902.
l 18470 e 2 r

✓ 8.75 a 2 r 8.95 9.15 = 9.05 .10 .10 r 2 d
9.15 r 1 b 9.25

✓ l 19232
Poor plate

l 19218

✓ 12.52 m = 1 < 12.62
r m.s

B 14344

9.82 e 1 r 9.92 10.19 10.29 = 10.10 .18 .09 19
✓ 10.19 r 0 d 10.19
10.29 r 3 e 10.59

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1899phae.proj..711B

September 6, 1899

h 14.3 − 1 26 BC −1° 475

B 14479

✓	10.19	d 1 r	10.29	10.39 =	10.34	.05	.04
	10.39	r 2 e	10.59				

l 14245

✓	10.59	e 2 r	10.79	10.96 =	10.88	.09	.08
	10.96	r 1 f	11.06				

l 18869

✓	10.59	e 2 r	10.79	11.06	11.19 =	11.01	.22	.05 .18
	11.06	r 0 f	11.06					
	11.19	r 1 g	11.29					

near edge

l 19898

✓	12.15	b = .1	< 12.25
		r n.s	

l 19865

✓	12.52	m 1 r	12.62	12.82 =	12.72	.10	.10
	12.82	r 1 m	12.92				

l 13996

	11.85	h 2 r	12.05	12.15	12.42	12.21	.16	.06	.21
✓	12.15	r 0 h	12.15						
	12.42	r 1 m	12.52						

l 17282

✓	9.82	c 2 r	10.02	10.09 =	10.06	.04	.03
	10.09	r 1 d	10.19				

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1899phae.proj.7118

September 6, 1899

h m
3 14.3 − 1° 26 RO − 1° 47.5

R 14594

✓ 10.59 E 1 r 10.69 10.86 = 10.78 .09 .08
10.86 r 2 f 11.06

12.15 R 14866
✓ l = .1 < 12.25
r n.s

R 14977
✓ 12.52 m = .1 < 12.62
r n.s

R 14996
✓ 12.92 m = .1 < 13.02
r n.s

R 14990
✓ 13.27 0 3 r 13.37

l 14180
10.59 E 2 r 10.79 11.06 11.09 = 10.98 .19 .08 .11
✓ 11.06 r 0 f 11.06
11.09 r 2 g 11.29

✓ l 19091
Prof. 11.29 g = .2 < 11.49
r n.s

l 14115
✓ 11.29 g 2 r 11.49 11.52 = 11.50 01 .02
11.52 r f 11.62

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1899phae.proj..711B

September 6 99.

h
3 14.3 − 1° 26 BH − 1° 47⁵⁻.

l 14312 Sfr.

√ 10.19 d = 2 ∠ 10.39
r n s

l 14274 Sfr.

√ 10.19 d 2 r 10.39 10.49 = 10.44 .05⁻ .05⁻
10.49 r 1 e 10.59

l 16339

√ 11.85⁻ h 1 r 11.95⁻ 12.15⁻ 12.42 = 12.17 .22 .02 .25⁻
12.15⁻ r o l 12.15⁻
12.42 r 1 m 12.52

l 14259 Sfr.

√ 10.19 d 2 r 10.39 10.49 = 10.44 .05⁻ .05⁻
10.49 r 1 e 10.59

l 14101 Sfr.

√ 10.59 e = 1 ∠ 10.69
r n s

B 18392 Sfr.

√ d = 1 ∠ 10.29
10.19 r n s

√ B 12 b y 5⁻ Sfr
Soft near edge

l 14106

√ 11.29 g 2 r 11.49 11.52 = 11.5⁻ a .01 .02
11.52 r 1 w 11.62

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1899phae.proj..711B

September 1, 99.

3h 14m.3 −1°26′ B40 −1°47′5

l 13940

Poor plate.

✓

l 19899

✓

13.27 0 2 r 13.47

l 20126

✓ 10.19 d 2 r 10.39 10.39 = 10.39 00 00

10.89 r 2 E 10.59

l 19858

✓ 10.59 E 1 r 10.69 10.86 = 10.78 .09 .08

10.86 r 2 f 11.06

l 19668

✓ 11.29 g 1 r 11.39 11.42 = 11.40 .01 .02

11.42 r 2 h 11.62

l 19637

✓ 11.29 g 2 r 11.49 11.52 = 11.50 .01 .02

11.52 r 1 h 11.62

l 19460

✓ 13.27 0 = .1 < 13.37

r m.s

l 22752

✓ 10.19 d 2 r 10.39 10.39 = 10.39 00 00

10.89 r 2 E 10.59

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1899phae.proj..711B

September 7. 1899.

$\frac{1}{3}$ 14.3 - 1° 26 BC - 1° 47'.

l 22077

Too near edge of plate.

l 21783

✓ 10.39	e l r	10.69	10.96 = 10.82	.13	.14
10.96	r l f	11.06			

l 21584

10.39	e 2 r	10.79	11.06 11.19 = 11.01	.22	.05 .18
✓ 11.06	r 0 f	11.06			
11.19	r 1 g	11.29			

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1899phae.prj..711B

September 13, 1899.

α Camelopardali

h m s ° ′
3 33.2 +62 20 (1900)

Comparison Stars marked on 5799

l 11,510

	10.89	a 1 r	10.99	11.19	11.39 =	11.19	.20	.00 .20
✓	11.19	r o d	11.19					
	11.39	r 1 e	11.49					

l 10984

	11.49	e = 1	< 11.5 -9
✓		r n s	

l 14373

	10.61	b 1 r	10.71	10.69 =	10.70	.01	.01	
✓	10.69	r 2 c	10.89					

l 16227

	10.61	b 2 r	10.81	10.89	10.99 =	10.90	.09	.01 .09
✓	10.89	r o c	10.89					
	10.99	r 2 d	11.19					

l 16115

	10.89	c 1 r	10.99	11.19	11.29 =	11.16	.17	.03 .13
✓	11.19	r o d	11.19					
	11.29	r 2 e	11.49					

l 14693

	10.61	b 1 r	10.71	10.69 =	10.70	.01	.01	
✓	10.69	r 2 c	10.89					

l 15607

	10.89	c 1 r	10.99	10.99 =	10.99	.00	.00	
✓	10.99	r 2 d	11.19					

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1899phae.proj..711B

September 14 1899

h m
3 33.2 +62° 20' (1900)

✓ l 15715
Poor plate.

l 15898

✓ 10.89 N 1 r 10.99 11.19 11.39 = 11.19 .20 .00 .20
11.19 r 0 d 11.19
11.39 r 1 e 11.49

l 14618

✓ 10.61 f 2 r 10.81 10.69 = 10.75 .06 .06
10.69 r 2 c 10.89

✓ l 14566

10.61 f 2 r 10.81 10.59 = 10.70 .11 .11
10.59 r 3 c 10.89

l 14128

✓ Poor plate

l 15970

11.19 d 1 r 11.29 11.49 11.69 = 11.49 .20 .00 .20
✓ 11.49 r 0 e 11.49
11.69 r 2 f 11.89

l 6449 Sfl.

10.61 b = 1 < 10.71
r n.s

l 7608

11.19 d = 1 < 11.29
r n.s

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1899phae.prpj..711B

Sept. 14, 1899. h m
9 33.2 +62 20 (1900)

l 9788

10.89	c l r	10.99	11.19 =	11.09	.10	.10
11.19	r o d	11.19				

l 9790

10.89	c l r	10.99	11.19 =	11.09	.10	.10
11.19	r o d	11.19				

l 9770

11.89	f l r	11.99	12.07 =	12.03	.04	.04
12.07	r o g	12.07				

l 9952

10.89	c l r	10.99	11.19	11.29 =	11.16	.17	.03 .13
11.19	r o d	11.19					
11.29	r 2 e	11.49					

l 10968

11.89	f l r	11.99	12.07 =	12.03	.04	.04
✓ 12.07	r o g	12.07				

l 11511

10.89	c l r	10.99	11.19	11.39 =	11.19	.20	.00 .20
✓ 11.19	r o d	11.19					
11.39	r l e	11.49					

l 11468

✓ 11.19	d e r	11.99	11.29 =	11.34	.05	.05
11.29	r 2 e	11.49				

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1899phae.proj..711B

Sept. 14, 1899.

h m
3 33.2 +62° 20' (1900) (Cont.)

l 11446

	11.19	d 1 r	11.29	11.29 = 11.29	00 00
	11.29	r 2 E	11.49		

l 9554

	11.19	d 1 r	11.29	11.49 11.79 = 11.52	.23 .03 .27
	11.49	r 0, E	11.49		
	11.79	r 2 f	11.89		

l 11886

	10.61	f 2 r	10.81	10.89 11.09 = 10.93	.12 .04 .16
	10.89	r 0 E	10.89		
	11.09	r 1 d	11.19		

l 16205

	10.89	E 1 r	10.99	11.19 11.39 = 11.19	.20 .00 .20
	11.19	r 0 d	11.19		
	11.39	r 1 E	11.49		

l 2191

Poor plate, badly fogged.

l 2269

Poor plate.

l 2854

	10.89	E 1 r	10.99	11.09 = 11.04	.05 .05
	11.09	r 1 d	11.19		

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1899phae.proj..711B

Sept. 14 99. 3^h 03.2 +62° 20′ (1900) (Cont.)

l 9189
Poor plate.

l 1671
Poor plate.

l 8457

11.49	ε 2 r	11.69	11.79 = 11.74	.03⁻ .03⁻
11.79	r 1 f	11.89		

l 7638

11.89	f 1 r	11.99	
	g n.s		

l 2426

11.49	ε 1 r	11.59	11.69 = 11.64	.03⁻ .03⁻
11.69	r 2 f	11.89		

l 12009

10.61	t 2 r	10.81	10.69 = 10.75⁻	.06 .06
v 10.69	r 2 c	10.89		

l 3073 Sp.

10.89	a 1 r	10.49	10.51 = 10.50	.01 .01
10.51	r 1 t	10.61		

l 3020 Sp.
Poor plate.

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1899phae.proj..711B

Sept. 14, 1899.

$3^h\ 33^m.2 + 62°\ 20'$ (1900) (Cont.)

l 65-9 Sp.

10.39	a	r	10.49	10.51 = 10.50	.01	.01
10.51	r	t	10.61			

l 11519

✓ 11.19	d	r	11.29	11.39 = 11.34	.05	.05
11.39	r	e	11.49			

l 11247

✓ 11.49	e	r	11.59	
	f.w.s			

✓ l 11219

Poor plate

l 12633

✓ 11.49	e	r	11.59	11.69 = 11.64	.05	.05
11.69	r	2 f	11.89			

l 17824

✓ 10.89	c	r	10.99	10.99 = 10.99	00	00
10.99	r	2 d	11.19			

l 19219

✓ 11.19	d	r	11.29	11.49	11.79 = 11.52	.23	.03 .27
11.49	r	0 e	11.49				
11.79	r	1 f	11.89				

✓ l 18189

Poor Plate

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1899phae.proj..711B

Sept. 14, 1899. h m
3 33.2 +62° 20' (1900) (Cont.)

l 18463

	10.61	b 2 r	10.81	10.69 = 10.75	.06	.06
✓	10.69	r 2 c	10.89			

l 18360

✓ Poor plate.

l 17008

	10.61	b 2 r	10.81	10.79 = 10.80	.01	.01
✓	10.79	r 1 c	10.89			

l 18722

✓	11.19	d 1 r	11.29	11.39 = 11.34	.05	.05
	11.39	r 1 c	11.49			

l 17039

✓	10.61	b 1 r	10.71	10.69 = 10.70	.01	.01
	10.69	r 2 c	10.89			

l 17281

✓	10.39	a 1 r	10.49	10.41 = 10.45	.04	.04
	10.41	r 2 b	10.61			

l 17517

	10.61	b 2 r	10.81	10.89 11.09 = 10.93	.12	.04	.16
✓	10.89	r 0 c	10.89				
	11.09	r 1 d	11.19				

l 16698

✓	10.61	b 1 r	10.71	10.69 = 10.70	.01	.01
	10.69	r 2 c	10.89			

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1899phae.proj..711B

September 15 1899.

h m
3 33.2 +62° 20' (1900) Cont.

l 13193

✓ Poor plate.

l 10,019

10.89	c 1 r	10.99	11.09 = 11.04	.05 .05
11.09	r 1 d	11.19		

l 10993

✓ 11.89	f 2 r	12.09	11.97 = 12.03	.06 .06
11.97	r 1 g	12.07		

l 10760

✓ 11.89	f 2 r	12.09	11.97 = 12.03	.06 .06
11.97	r 1 g	12.07		

✓ l 10507
Poor plate.

✓ l 10592
Poor plate.

✓ l 10428
Poor plate.

l 12076

✓ 10.61	f 2 r	10.81	10.69 = 10.75	.06 .06
10.69	r 2 c	10.89		

✓ l 12022

10.61	f 2 r	10.81	10.69 = 10.75	.06 .06
10.69	r 2 c	10.89		

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1899phae.proj..711B

Sept. 15-99.

h m ° ′
2 33.2 +62 20 (1900) (Cont.)

l 11,933

✓	11.49	E 1 r	11.59	11.79 =	11.69	.10	.10	
	11.79	r 1 f	11.89					

l 16-37

	10.61	f 2 r	10.81	10.89	11.09 =	10.93	.12	.04 .16
✓	10.89	r 0 c	10.89					
	11.09	r 2 d	11.19					

l 15-074

✓	10.61	f 2 r	10.81	10.69 =	10.75	.06	.06
	10.69	r 2 c	10.89				

l 10-223

✓ Poor plate

l 10-203

✓	10.89	c 1 r	10.99	10.99 =	10.99	00	00	
	10.99	r 2 d	11.19					

l 10-390

	10.61	f 2 r	10.81	10.89	10.99 =	10.90	.09	.01 .09
✓	10.89	r 0 c	10.89					
	10.99	r 2 d	11.19					

l 10 985

✓	11.49	E = .1	< 11.59	
		r m.s		

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1899phae.proj..711B

Sept. 15, 99.

α 23.2 +62° 20' (1900) (Cont.)

l 1990

✓ 11.49	e 2 r	11.69	11.89 =	11.79	.10	.10
11.89	r o f	11.89				
	g r.s					

l 11767

10.61	f 2 r	10.81	10.89	11.09 =	10.93	.12 .04 .16
✓ 10.89	r o e	10.89				
11.09	r 1 d	11.19				

l 11594

✓ 10.89	e 1 r	10.99	11.19	11.39 =	11.19	.20 ~~.00~~ .20
11.19	r o d	11.19				
11.39	r 1 e	11.49				

l 11520

✓ 10.89	e 2 r	11.09	11.19	11.29 =	11.19	.10 ~~.00~~ .10
11.19	r o d	11.19				
11.29	r 2 e	11.49				

l 9563

11.49	e = .1	< 11.59	
	r m.s		

l 7637

11.89	f 1 r	11.99	11.97 =	11.98	.01 .01
11.97	r 1 g	12.07			

l 9617

11.19	d 1 r	11.29	11.49	11.79 =	11.52	.23 .03 .27
11.49	r o e	11.49				
11.79	r 1 f	11.89				

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1899phae.proj..711B

Sept. 13, 1899. h m
3 33.2 +6 2 20 (1900) Cont.

l 9616

11.19	d 1 r	11.29	11.49	11.69 =	11.49	.20	.00	.20
11.49	r 0 e	11.49						
11.69	r 2 f	11.89						

l 5388

11.89	f 1 r	11.99	11.97 =	11.98	.01	.01		
11.97	r 1 g	12.07						

l 5822

11.89	f 1 r	11.99						
	g n.s							

l 12766

✓ 11.49	e 1 r	11.59	11.79 =	11.69	.10	.10		
11.79	r 1 f	11.89						

l 13799

10.61	f e r	10.81	10.89	10.99 =	10.90	.09	.01	.09
✓ 10.89	r 0 e	10.89						
10.99	r 2 d	11.19						

l 9866

10.89	e 1 r	10.99	11.19	11.39 =	11.19	.20	.00	.20
11.19	r 0 d	11.19						
11.39	r 1 E	11.49						

l 15167

✓ 10.39	a 2 r	10.59
	f n.s	

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1899phae.proj..711B

Sept. 10, 99.

3h 33m.2 +62° 20' (1900) Cont.

l 9549

10.89 21 r 10.99 11.19 11.29 = 11.16 .17 .03 .23
11.19 r o d 11.19
11.29 r 2 E 11.49

l 9260 Spr.

10.61 t = 2 < 10.81
r m.s

l 2298 Spr.

10.61 t = 1 < 10.71
r m.s

l 2973 Spr.
Poor plate.

l 2941 Spr.
Poor plate.

l 3199 Spr.

10.39 a = 1 < 10.49
r m.s

l 3212 Spr.

10.61 t 2 r 10.81
c m.s

l 11359

J 11.89 f = 1 < 11.99
r m.s

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1899phae.proj..711B

Sept. 15, 99.

$\frac{h}{3}$ $\frac{m}{23.2}$ +62° 20' (1900) (Cont.)

l 11022

✓	10.89	c = .1	< 10.99		
		r m.s			

l 11003

✓	12.07	g = .1	< 12.17		
		r m.s			

l 12254

	11.19	d 1 r	11.29	11.49 11.69 = 11.49	.20 .00 .20
✓	11.49	r 0 g	11.49		
	11.69	r 2 f	11.89		

l 12223

✓ Poor plate.

l 12285

✓	10.89	c 1 r	10.99	10.99 = 10.99	.00 .00
	10.99	r 2 d	11.19		

l 12297

	10.61	f 2 r	10.81	10.89 10.99 = 10.90	.09 .01 .09
✓	10.89	r 0 c	10.89		
	10.99	r 2 d	11.19		

l 12573

	11.19	d 2 r	11.39	11.49 11.79 = 11.56	.17 .07 .23
✓	11.49	r 0, g	11.49		
	11.79	r 2 f	11.89		

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1899phae.proj..711B

Sept. 15, 1899.

$3^h\ 33^m.2 + 62°\ 20'$ (1900) (Cont.)

l 16677

✓	10.61	t 2 r	10.81	10.69 =	10.75	.06	.06
	10.69	r 2 c	10.89				

l 12134

✓	10.61	t 2 r	10.81	10.79 =	10.80	.01	.01
	10.79	r 1 c	10.89				

l 12120

✓	10.61	t 2 r	10.81	10.69 =	10.75	.06	.06
	10.69	r 2 c	10.89				

l 5-5-5 Sp.

Poor plate.

l 699 Sp.

	10.61	t 1 r	10.71	10.79 =	10.75	.04	.04
	10.79	r 1 c	10.89				

l 5-29 + 5-37 Sp.

10.89	c = 1	< 10.99
	r n.s	

l 20007 Sp.

10.61	t 1	< 10.71
	r n.s	

l 13110

✓	11.49	t 2 r	11.69	11.79 =	11.74	.05	.05
	11.79	r 1 f	11.89				

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1899phae.proj..711B

Sept. 15, '99. h m 3 33.2 +62° 20' (1900) Cont.

l 11160

✓ 10.89 f = .1 < 10.99
r n, s

l 12190

✓ 10.61 f 2 r 10.81 10.69 = 10.79 - .06 .06
10.69 r 2 c 10.89

l 10992

✓ Poor plate.

l 9962

10.89 c 1 r 10.99 11.19 11.39 = 11.19 .20 or .20
11.19 r o d 11.19
11.39 r 1 e 11.49

l 19555 1 fr.
poor plate.

l 661

10.61 f 4 r 11.01 10.89 11.09 = 11.00 .01 .11 .09
10.89 r o c 10.89
11.09 r 1 d 11.19

l 13645

✓ 11.89 f = .1 < 11.99
r n, s

l 13613

✓ 11.19 d 1 r 11.29 11.39 = 11.34 .05 .05
11.39 r 1 e 11.49

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1899phae.proj..711B

Sept. 18, 99.

h m
♀ 23.2 +62° 26' (1900) Cmk

♀ 12832

✓ 10.89 C = .1 < 10.99

r m.s

♀ 10980

✓ 11.89 f 1 r 11.99 11.97 = 11.98 .01 .01

11.97 r 1 g 12.07

♀ 10970

✓ 11.89 f 1 r 11.99 11.97 = 11.98 .01 .01

11.97 r 1 g 12.07

♀ 10969

✓ 11.89 f 2 r 12.09 11.97 = 12.03 .06 .06

11.97 r 1 g 12.07

♀ 16591

✓ 10.61 f 1 r 10.71 10.89 10.99 = 10.86 .18 .03 .13

10.89 r 0 c 10.89

10.99 r 2 d 11.19

✓ ♀ 21836

11.49 ε = 2 < 11.69

r m.s

♀ 21800 ~~X~~

✓ 11.49 ε = 2 < 11.69

r m.s

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1899phae.proj..711B

Sept 15-'99. $3^h\ 33^m.2$ $+62^\circ\ 20'$ (1900) Cont.

✓ l 20002
For near edge of pl.

l 19861

✓ 10.61	+ 2 r	10.81	10.79 = 10.80	.01 .01
10.79	r 1 c	10.89		

l 19770

✓ 11.19	d 2 r	11.39	11.39 = 11.39	.00 .00
11.39	r 1 e	11.49		

l 19 ~~685~~ 6855

11.19	d 1 r	11.29	11.49 11.69 = 11.49	.20 .00 .20
✓ 11.49	r 0 e	11.49		
11.69	r 2 f	11.89		

l 19-99

10.89	c 1 r	10.99	11.19 11.29 = 11.16	.17 .03 .13
✓ 11.19	r 0 d	11.19		
11.29	r 2 e	11.49		

l 19458

11.19	d 2 r	11.39	11.49 11.79 = 11.56	.17 .07 .23
✓ 11.49	r 0 e	11.49		
11.79	r 1 f	11.89		

✓ l 21808
For near edge of pl.

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1899phae.proj..711B

Sept. 15, 99.

δ 33.2 +62 20' (1900) Cmdr.

✓ ℓ 21546

From edge of pl.

ℓ 20781

✓ 10.39 a = 1 ∠ 10.49

a m s

ℓ 20972

✓ 11.49 E 1 r 11.39 11.79 = 11.69 .10 .10

11.79 r 1 f 11.89

ℓ 20944

✓ 11.19 d 1 r 11.29 11.49 11.79 = 11.52 .23 .03 .27

11.49 r o E 11.49

11.79 r 1 f 11.89

ℓ 20110

✓ 10.61 f 2 r 10.81 . 10.79 = 10.80 .01 .01

10.79 r 1 C 10.89

ℓ 5799

11.89 f 1 r 11.99 11.97 = 11.98 .01 .01

11.97 h 1 g 12.07

✓ ℓ 10986

Poor plate ~~ℓ 11724~~

✓ ℓ 14120

Poor plate

✓ ℓ 15483

Poor pl.

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1899phae.proj..711B

September 29 1899.

New Variable Star in τ Eridanus

3h 49.9m −24° 24′ 8.6 (1875)

Comps. Stars marked on B 11935.

L 13800

✓ 10.7v h = 2 < 10.9v

r n.s

B 7191 Sfv.

7.6v r 3 r 7.9v 8.1v = 8.0v 12° .10

8.1v r 2 c 8.3v

B 7009 Sfv.

7.6v h = .2 < 7.8v

r n.s

B 4933 Sfv.

6.70 a = .1 < 6.80

r n.s

B 4759 Sfv.

Poor plate.

B 5697 Sfv.

Poor plate.

B 6989 Sfv.

8.3v c = .1 < 8.4v

r n.s

✓ L 19946

Poor plate.

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1899phae.proj..711B

Sept. 19 1899.

h m
349.9 − 24° 24 (1875)

B 14371

✓ 10.75⁻ h 2 r 10.95⁻ 11.33 = 11.14 .19 .19
11.33 r 1 k 11.43

B 14627

✓ 10.20 g = .1 < 10.30
r m.s

✓ ♀ 19864

9.60 f 2 r 9.80 10.10 = 9.95⁻ .15⁻ .15⁻
10.10 r 1 g 10.20

✓ B 14797

11.43 h 1 r 11.53
l m.s

B 14997

✓ 10.75⁻ h = .1 < 10.85⁻
r m.s

B 15037

✓ 10.75⁻ h 3 r 11.05⁻ 11.43 = 11.24 .19 .19
11.43 r 0 k 11.43
l m.s

B 15 11 ε⁻ Afv.

✓ 10.20 g = .1 < 10.30
r m.s

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1899phae.proj.711B

Sept. 19, 1899.

$\frac{h}{3}$ $\frac{m}{49.9}$ -24° $24'$ (1875⁻)

B5670 Spr.

8.33⁻ C = .1 < 8.43⁻

r m.s

B10587 Spr.

8.38⁻ C = .1 < 8.48⁻

r m.s

B12404 Spr.

7.68⁻ C = .1 < 7.78⁻

r m.s

B12403⁻ Spr.

8.33⁻ C = .1 < 8.43⁻

r m.s

B17350

✓ 7.68⁻ + 2 r 7.88⁻ 8.03⁻ = 7.93⁻ .10 .10

8.03⁻ r 9 c 8.33⁻

l 15961

✓ 8.33⁻ c 2 r 8.53⁻ 8.53 = 8.54 .01 .01

8.53 r 3 d 8.83

B17304

✓ 8.83 d 2 r 9.03 9.23⁻ 9.50 = 9.26 .23 .01 .24

9.23⁻ r 0 e 9.23⁻

9.50 r 1 f 9.60

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1899phae.proj..711B

Sept. 19, 99 h^m 3^h 49.9 - 24° 24' (1875)

B17241

✓ 9.25⁻ ε 1 r 9.35⁻ 9.40 = 9.38 .03 .02
9.40 r 2 f 9.60

B17209

✓ 9.60 f 1 h 9.70 10.00 = 9.85⁻ .15⁻ .15⁻
10.00 r 2 g 10.20

B17617

✓ 6.70 a 2 r 6.90 7.65⁻ 8.25⁻ = 7.60 .70 .05⁻ .65⁻
7.65⁻ r a f 7.65⁻
8.25⁻ r 1 e 8.03⁻

B17190

✓ 9.25⁻ ε 2 r 9.45⁻
f nebulosity

✓ B17133

9.60 f 1 r 9.70 10.00 = 9.85⁻ .15⁻ .15⁻
10.00 r 2 g 10.20

✓ B16995⁻

10.75⁻ h 1 r 10.85⁻ 11.13 = 10.99 .14 .14
11.13 r 3 k 11.43

B16820

✓ 10.75⁻ h = 1 < 10.85⁻
r n, s

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1899phae.proj..711B

Sept. 19, 1899.

$3^h\ 49^m.9 \quad -24^\circ\ 24'\ (1875^-)$

B 16ᵍ-24

✓ 11.43	k 1 r	~~< 10.9ᵍ⁻~~	11.53	11.83 =	11.68	15⁻	15⁻
11.83	r 1 l		11.93				

B 15ᵍ-334

✓ 7.6ᵍ⁻	k 1 r	7.7ᵍ⁻	8.1ᵍ⁻ =	7.9ᵍ⁻	.20	.20
8.1ᵍ⁻	r 2 c	8.3ᵍ⁻				

l 14374

✓ 7.6ᵍ⁻	k 2 r	7.8ᵍ⁻	8.1ᵍ⁻ =	8.00	.13⁻	.13⁻
8.1ᵍ⁻	r 2 c	8.3ᵍ⁻				

B 15ᵍ-281

✓ 7.6ᵍ⁻	k 2 r	7.8ᵍ⁻	8.3ᵍ⁻	8.73 =	8.31	.46	.04	.42
8.3ᵍ⁻	r 0 c	8.3ᵍ⁻					
8.73	r 1 d	8.83					

l 18725ᵍ⁻

✓ 9.2ᵍ⁻	e 3 r	9.5ᵍ⁻
	f m.s	

✓ l 18ᵍ-87

9.2ᵍ⁻	c = .3	2	9.5ᵍ⁻
	r m.s		

B 19819

✓ 8.3ᵍ⁻	c 2 r	8.5ᵍ⁻	8.83	9.1ᵍ⁻ =	8.84	.29	.01	.81
8.83	r 0 d	8.83						
9.1ᵍ⁻	r 1 e	9.2ᵍ⁻						

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1899phae.proj. .711B

Sept. 19, 1899

h 49.9 -24° 24' (1875)

B1899S

✓ 9.60 f 2 r 9.80 10.10 = 9.95 .15 .15

10.10 r 1 g 10.20

L1728S

✓ 10.75 h = .2 < 10.95

r m.s

B1849S

✓ 11.43 h = .1 < 11.53

r m.s

B1840

✓ 11.75 h 4 r 12.15 11.23 = 11.69 .46 .46

11.23 r 2 h 11.43

L1705

✓ 10.75 h = .2 < 10.95

r m.s

B1897S

✓ 10.75 h 1 r 10.85 11.13 = 10.99 .14 .14

11.13 r 3 h 11.43

✓ L 16-1772

9.60 f 2 r 9.80 10.10 = 9.95 .15 .15

10.10 r 1 g 10.20

✓ L 16-1800

8.33 c 1 r 8.48 8.83 9.05 = 8.78 .33 .05 .27

8.83 r 0 d 8.83

9.05 r 2 e 9.25

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1899phae.proj..711B

Sept. 19, 1899.

$9^h\ 49^m.9 \quad -24^\circ\ 24'$ (1875)

R 17894

✓ 8.35⁻ c e r 8.53⁻ 8.63 = 8.39 .04 .04
8.63 r e d 8.83

R 17902

✓ 7.65⁻ t e r 7.85⁻ 8.35⁻ 8.73 = 8.31 .46 .04 .42
8.35⁻ r o c 8.35⁻
8.73 r i d 8.83

R 17799

✓ 7.65⁻ t e r 7.85⁻ 8.35⁻ 8.63 = 8.28 .43 .07 .35⁻
8.35⁻ r o c 8.35⁻
8.63 r e d 8.83

R 16238

✓ 7.65⁻ t e r 7.85⁻ 8.05⁻ = 7.95⁻ .10 .10
8.05⁻ r o c 8.35⁻

September 21, 1899

R 22284

✓ 8.35⁻ c i r 8.43⁻ 8.83 9.13⁻ = 8.81 .36 .02 .34
8.83 r o d 8.83
9.13⁻ r i E 9.25⁻

R 22997

✓ 9.60 f i r 9.70 10.00 = 9.85⁻ .15⁻ .15⁻
10.00 r e g 10.20

R 20928

✓
10.75⁻ h = .2 < 10.95⁻
r n s

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1899phae.proj..711B

September 21, 99.

3 49.9 - 24° 2.4 (1875)

B 20 e 25

✓ 10.20 g 2 r 10.40 10.55 = 10.48 .08 .07
10.55 r 2 h 10.75

B 22 11 55

✓ 7.65 f 3 r 7.95 8.15 = 8.05 .10 .10
8.15 r 2 c 8.35

B 22 11 8

✓ 6.70 a 2 r 6.90 7.65 8.25 = 7.60 .30 .05 .65
7.65 r 0 f 7.65
8.25 r 1 c 8.35

B 20 12 25

✓ 8.35 e 1 r 8.45 8.63 = 8.54 .09 .09
8.63 r 2 d 8.83

2 22 35

✓ 10.20 g = 1 < 10.30
r n s

B 20 0 26

✓ 9.25 e 1 r 9.35 9.60 10.00 = 9.65 .30 .05 .35
9.60 r 0 f 9.60
10.00 r 2 g 10.20

B 17 49 8

✓ 7.65 f 1 r 7.75 8.05 = 7.90 .15 .15

B 20 8 12

11.43 k = 1 < 11.53 8.05 r 3 c 8.35
r n s

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1899phae.proj..711B

Sept. 21, 99 $h\ m$ $9\ 49.9 - 24°\ 24'$ (1875)

9

R 19624

✓ 11.43 R 1 r 11.53

l m s

l 19714

✓ 10.75⁻ h = 1 < 10.85⁻

r m s

l 19862

✓ 9.60 f 2 r 9.80 10.20 10.45⁻ = 10.15⁻ .33⁻ .05⁻ .30

10.20 r o g 10.20

10.45⁻ r 3 h 10.75⁻

l 19921

✓

10.20 g = 1 < 10.30

r m s

✓ l 19899

Poor plate ✓ l 21918 Sp. ✓ l 21928 Sp.

8.35 c 1 r 8.48⁻ 8.73 = 8.59 c 2 r 8.53⁻ 8.73 = 8.64

.14 .14 .09 .09

8.73 r 1 d 8.83 8.73 r 1 d 8.83

l 19404

✓ 11.43 h = 1 < 11.53 ✓ R 23741 ✓ R 23718

r m s 8.83 d 1 r 8.93 8.95 = b 2 r 7.85⁻ 8.25 = 8.05

8.94 0.01 .20 .20

8.45⁻ r 3 e 9.25 8.25⁻ r 1 c 8.35⁻

l 19461

✓ 10.75⁻ h = 1 < 10.85⁻

r m s

✓ R 18648 ✓ R 23680

11.43

R 11935⁻ h 1 r 11.53 11.83 = Just off plate

8.35⁻ c 2 r 8.53⁻ 8.83 9.15 = 8.84 11.83 11.68

8.83 r 0 d 8.83 .29 .01 .31 r 1 e 11.93 .15⁻ .15

9.15 r 1 e 9.25⁻

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1899phae.proj..711B

September 23 1899.

New Variable B.D. −16° 7741

h m
3 57.7 −16° 7.6 8.5 (180-5)

B22398

v 8.88 C 1 r 8.98 9.20 = 9.09 .11 .11
9.20 r 1 d 9.30

B22283

v 8.88 C 3 r 9.18 9.20 = 9.19 .01 .01
9.20 r 1 d 9.30

B2095-3

v 8.88 C 2 r 9.08 9.20 = 9.14 .06 .06
9.20 r 1 d 9.30

B2095-6

v 8.88 C 3 r 9.18 9.20 = 9.19 .01 .01
9.20 r 1 d 9.30

B20739

v 8.43 C 2 r 8.63 8.88 9.10 = 8.87 .24 .01 .23
8.88 r 0 c 8.88
9.10 r 2 d 9.30

v Sp. C 19044

8.43 C 2 r 8.63 8.78 = 8.70 .07 .08
8.78
~~8.43~~ r 1 c 8.88

v B20412

8.88 C 1 r 8.98 9.20 = 9.09 .11 .11
9.20 r 1 d 9.30

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1899phae.proj..711B

September 23, 99.

h m ° ′ Magn
9 5-7.7-16 7.6 8.5 (1850)

B 20383

✓ 8.43 f 2 r 8.63 8.88 9.10 = 8.87 .24 .01 .23
8.88 r 0 c 8.88
9.10 r 2 d 9.30

B 20226

✓ 8.88 c 2 r 9.08 9.20 = 9.14 .06 .06
9.20 r 1 d 9.30

B 20201

✓ 8.43 f 2 r 8.63 8.78 = 8.70 .07 .08
8.78 r 1 c 8.88

1009 Sp.
R 21-79

✓ 10.39 g = 1 ∠ 10,49
r m.s

✓ B 7191
Too near edge of plate

✓ B 8702
f 2 r
r 1 c

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1899phae.proj..711B

September 27, 1899.

C.Q.M. – 25° 1766
h 4 6.3 – 25° 28' 9.2 Magn (1870)

Comparison Stars marked on B12482.

B19819

✓ 11.24 n = .1 < 11.34
r n.S

B18799

✓ 9.67 h 1 r 9.77 9.95 = 9.86 .09 .09
9.95 r 2 h 10.15

B20812

✓ 9.67 h = .2 < 9.87
r n.S

B18473

7.87 e 2 r 8.07 8.22 = 8.14 .07 .08
8.22 r 1 d 8.82

✓ B22284

10.50 h = .1 < 10.60
r n.S

✓ B18273

Too near edge

B18190

10.15 h = .1 < 10.25
r n.S

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1899phae.proj..711B

Sept. 27 99.

Chron. – 23° 1766

B18648

✓ 7.87 C 2 r 8.07 8.12 = 8.10 .03 .02

8.12 r 2 d 8.22

B20738

✓ 11.74 0 1 r 11.84 12.04 = 11.94 .10 .10

12.04 r 1 p 12.14

B22118

✓ 11.74 0 = .1 < 11.84

r m, S

B20026

✓ 10.92 m = .1 < 12.02

r m, S

B15334

9.27 g 2 r 9.47 9.47 = 9.47

9.47 r 2 h 9.67

L19999

✓ 7.62 f = .3 < 7.92

r m, S

L19221

✓ 10.15⁻ f = .1 < 10.25⁻

r m, S

L18725

✓ 8.93⁻ f = .1 < 9.03⁻

r m, S

L18587

✓ 8.93⁻ f = .2 < 9.13⁻

r m, S

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1899phae.proj..711B

Sept. 27. 99.

C.R.M. −25° 1766

B 18340

✓ Just off edge.

B 18366

7.87 C 2. r 8.07 8.02 = 8.04 .03 .02

8.02 r 3 d 8.82

✓ l 20125

10.15 k = .1 < 10.25

r m.S

✓ l 19862

10.15 k = .2 < 10.35

r m.S

✓ l 19714

10.15 k = .1 < 10.25

r m.S

l 19624

✓ 11.74 0 = .1 < 11.84

r m.S

✓ l 19461

10.15 k = .1 < 10.25

r m.S

✓ l 19404

11.24 k = .1 < 11.34

r m.S

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1899phae.proj..711B

Sept. 27, 1899

R. A. C. M. – 25° 1766

B 20225

✓ 10.13 k = .2 < 10.33

σ m.s

B 18413

10.92 m = 1 < 11.02

σ m.s

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1899phae.proj..711B

September 29 1899.

Variable R Lacli.

+ 37. 1 - 38 26 (1900

Comp. Stars marked on B 12725.
also on B 4493

B 12725

V 12.53 k 2 r 12.73 12.98 = 12.86 .13 .12
12.98 r 2 l 13.18

B 4493

6.86 d 2 r 7.06 7.26 = 7.16 .10 .10
7.26 r 2 l 7.46

B 17160

V 11.95 h 2 r 12.15 12.33 = 12.24 .09 .09
12.33 r 2 k 12.53

B 15-282

✓ 12.53 ~~11.13~~ h 2 r ~~< 11.33~~ 12.73
l m.s

B 15-218

✓ 13.18 l 1 r 13.28 13.73 = 13.50 .22 .23
13.73 r 0 m 13.73

B 17642

✓ 13.18 l = .1 < 13.28
r n.s

B 12284 Sp

V 9.46 e = .1 < 9.56
r n.s

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1899phae.proj..711B

September 29 1899.
h m
4 37.1 — 38° 26' (1900) Cont.

B12638 Spr.

✓ 7.46 L = .6 < 8.06
r n, s

B4415⁻ Spr.

7.46 L = 2 < 7.66
r n, s

B10705⁻ Spr.

✓ 9.46 L = 1 < 9.56
r n, s

B17428 Spr.

✓ 11.95⁻ L = 2 < 12.15⁻
r n, s

B12661 Spr.

✓ 7.46 L = 5⁻ < 7.96
r n, s

B8320 Spr.

✓ 10.21 L = 1 < 10.31
r n, s

B8919 Spr.

✓ 7.46 b 2 r 7.66 7.96 = 7.81 .15⁻ .15⁻
7.96 r 2 c 8.16

✓ B12278 Spr.

9.46 L = 1 < 9.56
r n, s

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1899phae.proj..711B

September 29 1899

h m
4 37.1 −38° 26 (1900) Cent.

B 17422 Sp.

√ 10.21 f = .9 < 10.51.

σ m.s

B 12922

√ 12.53 f = 3 < 12.89

σ m.s

B 12217

√ 12.53 f = .1 < 12.63

σ m.s

B 14327

√ 12.53 f = .1 12.63 12.88 = 12.76 .13 .12

12.88 σ = .1 13.18

B 14841

√ 13.73 m f = .1 < 13.83

σ m.s

B 48 5-5

11.13 g = .1 < 11.23

σ m.s

.1

B 17837

√ 10.21 f = .2 < 10.41

σ m.s

B 12 5-26

√ ~~96~~ m f = .2 ~~14.16~~ 13.86 = 13.90 03 04

~~13.73~~ ~~13.93~~ ~~14.06~~ = ~~14.11~~ 05 ~~05~~

~~14.06~~ ~~13.88~~ = 13.90 .03 .02

13.86 ~~13.88~~ σ = .1 ~~14.16~~ 13.96

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1899phae.proj..711B

September 29 1899

h m
4 37.1 - 38° 26' (1900) Comet.

B 14607
k 3 r
l n.s

✓ 12.53 12.83

B 12218
n = 1
r n.s

✓ 13.73 < 13.83

B 12335
l = 1
r n.s

✓ 13.18 < 13.28

B 12336
l = 1
r n.s

✓ 13.18 < 13.28

B 12162
l = 1
r n.s

✓ 13.18 < 13.28

B 17741
n = 2
r n.s

✓ 13.73 < 13.93

B 14540
l 1, r
r 2 m

B 10488
g = 2
r n.s

✓ 11.13 < 11.33

B 11980
k = 2
r n.s

✓ 12.53 < 12.73

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1899phae.proj..711B

September 29 1899.

h m
4 37.1 −38° 26′ (1900) Cont.

B 17280

✓	11.95	h 2 r	12.15	12.33 =	12.24	.09	.09
•	12.33	r 2 h	12.53				

B 15663

✓	7.46	t 3 r	7.76	7.96 =	7.86	.10	.10
	7.96	r 2 c	8.16				

B 15488

✓	7.46	t 3 r	7.76	7.96 =	7.86	.10	.10
	7.96	r 2 c	8.16				

B 11876

✓	12.83	k 3 r	12.83	13.18	13.63 =	13.21	.38	.03 .42
	13.18	r 0 l	13.18					
	13.63	r 1 m	13.73					

B 14700

✓	13.73	m 3 r	14.03	13.78 =	13.90	.13	.12
	13.78	r 2 o	13.98				

B 10607

✓	12.53	k 2 r	12.73	13.08 =	12.90	.17	.18
	13.08	r 1 l	13.18				

B 17606

✓	13.18	l 2 r	13.38	13.63 =	13.50	.12	.13
	13.63	r 1 m	13.73				

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1899phae.proj..711B

September 29 1899

h m ° ′
4 37.1 -38 26 (1900) Cont.

B 17853

✓ 12.53 k = .2 < 12.73
r m.s

B 17306

✓ 12.53 k 1 r 12.63 12.88 = 12.76 .13 .12
12.88 r 3 l 13.18

B 6983

✓ 12.53 k 2 r 13.73
l m.s

B 6962

✓ 11.95 k 2 r 12.15 12.53 13.08 = 12.59 .44 .06 .49
12.53 r 0 k 12.53
13.08 r 1 l 13.18

B 6984

✓ 12.53 k 2 r 12.73 13.18 = 12.96 .23 .22
13.18 r 0 l 13.18
m m.s

B 16996

✓ 10.21 f 2 r 10.41 11.03 = 10.72 .31 .31
11.03 r 1 g 11.13

B 16822

✓ 9.46 E 3 r 9.76 10.21 10.83 = 10.27 .81 .06 .56
10.21 r 0 f 10.21
10.83 r 3 g 11.13

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1899phae.proj..711B

September 29 1899

h m ° ′
4 37.1 −38 26 (1900) Cont?

R 15-333

✓ 11.13 g 2 r 11.33 11.63 = 11.49 .16 .16
11.63 r 3 h 11.95

B 17379

✓ 8.16 c 2 r 8.36 8.78 = 8.57 .21 .21
8.78 r 1 d 8.88

B 17²846

7.46 b 3 r 7.76 8.16 8.48 = 8.23 .47 .07 .53
✓ 8.16 r 0 c 8.16
8.48 r 1 d 8.88

B 4315

6.86 a 2 r 7.06 7.46 7.96 = 7.49 .43 .03 .47
7.46 r 0 b 7.46
7.96 r 2 c 8.16

B 4945

6.86 a 1 r 6.96 7.26 = 7.11 .15 .15
7.26 r 2 b 7.46

✓ B 12 45-4

13.18 l 2 r 13.38 13.63 = 13.50 .12 .13
13.63 r 1 N 13.73

✓ R 15-104

13.73 m 3 r 14.03 ✓ B 12846
o n d 8.16 a 1 r 8.26 8.68 = 8.47 .21 .21
8.68 r 2 d 8.88

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1899phae.proj..711B

September 29 1899

h m
4 37.1 — 38° 26 (1900) Cambr.

B7138

✓ 7.46 f 2 r 7.66 8.16 8.78 - 8.20 .54 .04 .58
8.16 r 0 c 8.16
8.78 r 1 d 8.88

B8875

✓ 8.16 c 2 r 8.36 8.68 - 8.82 .16 .16
8.68 r 2 d 8.88

✓ B.8682 Sp.
9.46 e = 1 < 9.06
r n. s

B8792

✓ 12.53 k 3 r 12.83 12.98 - 12.90 .07 .08
12.98 r 2 l 13.18

✓ B8786 Sp.
7.46 f = 9 < 7.76
r r n. s

B8518 Sp
✓ 8.88 d = 2 < 9.08
r n. s

B12484
k 2, N

B8247
✓ 13.73 m = 1 < 13.83
r n. s

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1899phae.proj..711B

October 2 1899

h m
4 27. 1 −38° 26 (1900) Cmt?

B 20903

✓ 11.95 h = .1 < 12.05
r m, s

B 22090

✓ 11.13 g 2 r 11.83 11.85 = 11.59 :26 .26
11.85 r 1 h 11.98

B 20526 S/r

✓ 9.46 e = .1 < 9.56
r m s

B 20591

✓ 12.53 h 2 r 12.73 12.98 = 12.86 :13 .12
12.98 r 2 L 13.18

B 20647 S/r.

✓ 10.21 f = .1 < 10.31
r m s

✓ B 20742
13.73 m i r 13.83
o m s

✓ B 20888
13.18 L = .1 < 13.28
r m s

B 20341

✓ 11.95 h 2 r 12.15 12.43 = 12.29 .14 .14
12.43 r 1 h 12.53

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1899phae.proj..7118

Oct. 2 1899. h m
4 37.1 −38° 26′ Cont.

B20028

✓ 10.21 f 2 r 10.41 11.13 11.85⁻ = 11.13 .72 .00 .72
11.13 r 0 g 11.13
11.85⁻ r 1 h 11.93⁻

B19866

✓ 9.46 e 2 r 9.66 10.11 = 9.88 .22 .23
10.11 r 1 f 10.21

B19122

✓ 11.93⁻ h = 1 < 12.03⁻
r m,s

B18617

✓ 12.53 h 1 r 12.63 13.08 = 12.86 .23 .22
13.08 r 1 L 13.18

B18664

✓ 11.93⁻ h 2 r 12.13⁻ 12.43 = 12.29 .14 .14
12.43 r 1 h 12.53

B18537

✓ 10.21 f = 3 < 10.51
r m,s

✓ B14606

13.73 m 1 r 13.83 13.88 = 13.86
.03 .02
13.88 r 1 0 13.98

B18501

✓ 13.73 m 1 r 13.83
0 m,s

B7499 ✓ B6946

13.73 m 1 r 13.83 Poss plate
0 m,s

✓ B8539
8.88 d = 1 < 8.98

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1899phae.proj..711B

Celotia 21899

h m ° ′
4 37.1 — 38 26 (1900) Cont.

R 18390 Sp.

✓ 8.88 d = .1 < 8.98
r n.s

R 18967

✓ 13.18 h E.1 < 13.28
r n.s

R 18923

✓ 13.73 h 2 r 13.93 13.88 = 13.90 .03 .02
13.88 r 1 ~~x~~ 13.98

R 18277

✓ 13.73 h n 3 r 14.03
0 n.s

R 18134

13.73 n = .1 < 13.83
✓ r n.s

R 18795

8.88 d 2 r 9.08 9.36 = 9.22 .14 .14
✓ 9.36 r 1 E 9.46

R 22248

✓ 12.53 h 1 r 12.63 12.88 = 12.76 .13 .12
12.88 r 2 L 13.18

✓ R 22313 ✓ R 22401

12.53 h = 2 < 12.73 13.73 n = .1 < 13.83
r n.s r n.s

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1899phae.proj..711B

October 4, 99.

D.M. -9° 2612 mag.

8 32.7 -9° 5 7.7 (1855)

Comp. Stars marked on I 1485 0.

Rigola Sfr.

8.51	d 3 r	8.81	8.66 = 8.74	.07	.08
8.66	r 2 e	8.86			

I 1485 0

8.13	c 1 r	8.23	8.41 = 8.32	.09	.09
8.41	r 1 d	8.51			

I 5549

8.13	c 2 r	8.33	8.41 = 8.37	.04	.04
8.51	r 1 d	8.51			

I 2092

8.13	c 2 r	8.33	8.51 8.76 = 8.53	.20	.02	.23
8.51	r 0 d	8.51				
8.76	r 1 e	8.86				

I 1996 5

7.85	r 2 r	8.05	8.13 8.41 = 8.20	.15	.07	.21
8.13	r 0 c	8.13				
8.41	r 1 d	8.51				

I 957

8.51	d 2 r	8.71	8.66 = 8.68	.03	.02
8.66	r 2 e	8.86			

I 6135 Sfr.

8.51	d 3 r	8.61	8.56 = 8.~~64~~ 58	.03	.02
8.56	r 3 e	8.86			

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1899phae.proj..711B

Color 499.

δ O.M. — 9 26 12 Cont

B 18741

8.113 c 2 r 8.33 8.41 = 8.37 .04 .04
8.41 r 1 d 8.51

B 1895b

8.86 E 2 r 9.06 9.01 = 9.04 .02 .03
9.01 r 1 f 9.11

B 2245

7.163 a 2 r 7.83
t n.s

L 8064

7.85 t 2 r 8.05
c n.s

B 1795-1

8.13 c 2 r 8.33 8.51 8.76 = 8.53 .20 .02 .23
8.51 r 0 d 8.51
8.76 r 1 E 8.86

B 19226 Sfm.

7.85 t 2 r 8.05 8.03 = 8.04 .01 .01
8.03 r 1 c 8.13

B 18692

8.13 c 2 r 8.33 8.41 = 8.37 .04 .04
8.41 r 1 d 8.51

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1899phae.proj..711B

Adoptu 499.

R.M. -9° 2612 cont.

B 9167

7.√85	f 1 r	7.93	8.03 = 7.99	.04	.04
8.03	r 1 c	8.13			

v I 12619

For near edge of plate.

I 7924 Sp.

7.√85	f 2 r	8.03			
	c m.s				

I 12414

8.√13	c 2 r	8.33	8.41 = 8.37	.04	.04
8.41	r 1 d	8.51			

B 9128

8.√13	c 1 r	8.23	8.31 = 8.27	.04	.04
8.31	r 2 d	8.51			

B 9177

7.√63	a 2 r	7.83	7.73 = 7.79	.04	.04
7.73	r 1 b	7.85			

B 18401

7.8√5	b 2 r	8.03	7.93 = 7.99	.06	.06
7.93	r 2 c	8.13			

B 15718

Poor plate

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1899phae.proj..711B

October 4, 99.

D.M. −9°2612 (Cont.)

B 16342

7.85⁻	2 1 r	7.93⁻	7.93	= 7.94	.01	.01
7.93	r 2 c	8.13				

B 1845-40⁻

7.185⁻	2 2 r	8.03⁻	8.13	8.41	= 8.20	15⁻	07	.21
8.13	r 0 c	8.13						
8.41	r 1 d	8.51						

✓ B 15-314

7.63	a 2 r	7.93	7.65⁻	= 7.79	.14	.14
7.65⁻	r 2 b	7.85⁻				

Q 9934 Sfu.

8.51	d 2 r	8.71	8.76	= 8.74	.03	.02
8.76	r 1 e	8.86				

B 1925-8

✓ 8.13	e 2 r	8.33	8.31	= 8.32	.01	.01
8.31	r 2 d	8.51				

Q 5741

✓ 7.63	a 2 r	7.83	7.55⁻	= 7.69	.14	.14
7.55⁻	r 3 b	7.85⁻				

✓ B 18171

8.51	d 1 r	8.61	8.76	= 8.68	.07	.08
8.76	r 1 e	8.86				

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1899phae.proj..711B

Oct. 4, 1899.

80. M. −9° 2612 (Cont.)

B 18223

8.571	d 2 r	8.71	8.76 =	8.74	.03	.02
8.76	r 1 e	8.86				

B 19044

8.571	d 1 r	8.61	8.86	9.01 =	8.83	.22	.03	.18
8.86	r 0 e	8.86						
9.01	r 1 f	9.11						

B 12668

8.586	e 1 r	8.96	8.91 =	8.94	.02	.03
8.91	r 2 f	9.11				

B 18828.

8.571	d 1 r	8.61	8.76 =	8.68	.07	.08
8.76	r 1 e	8.86				

✓ L 14622

Focus plate. Cannot identify.

B 19236

8.313	c 2 r	8.33	8.31 =	8.32	.01	.01
8.31	r 2 d	8.571				

B 19136 Spv.

8.313	c 1 r	8.23	8.21 =	8.22	.01	.01
8.21	r 3 d	8.571				

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1899phae.proj..711B

Clock 4 99

H.D. M. −9° 2612 Cont.

B 9127

8.113	c 1 r	8.23	8.31 = 8.27	.04	.04	
8.91	r 2 d	8.51				

L 16854

7.85	f 2 r	8.03	8.03 = 8.04	.01	.01	
8.03	r 1 c	8.13				

L 988

8.13	c 2 r	8.93	8.41 = 8.37	.04	.04	
8.41	r 1 d	8.51				

8.51 B 18106

	d 1 r	8.61	8.66 = 8.64	.03	.02	
8.66	r 2 e	8.86				

B 18-675

8.86	e 1 r	8.96	8.91 = 8.94	.02	.03	
8.91	r 2 f	9.11				

B 16000

8.13	c 2 r	8.33	8.51	8.76 = 8.53	.20	.02 .23
8.57	r 0 d	8.51				
8.76	r 1 e	8.86				

L 819 Sp.

7.83	f 2 r	8.03	7.93 = 7.99	.06	.06	
7.93	r 2 c	8.13				

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1899phae.proj..711B

Oct. 4, 1899

D.M. −9° 2612 Cont.

B10990

8.586 e 2 r 9.06 8.91 = 8.98 .08 .07
8.91 r 2 f 9.11

B13-310

✓
8.13 c 2 r 8.33 8.41 = 8.37 .04 .04
8.41 r 1 d 8.51

Q19407

✓
8.51 d 1 r 8.61 8.66 = 8.64 .03 .02
8.66 r 2 e 8.86

B2368 Sp.

✓
7.63 a = .2 < 7.93
r m.s

Q896

8.513 c 2 r 8.33 8.31 = 8.32 .01 .01
8.31 r 2 d 8.51

B18312

8.51 d 1 r 8.61 8.86 8.91 = 8.79 .18 .07 .12
✓
8.86 r 0 e 8.86
8.91 r 2 f 9.11

Q8037

7.85 f 2 r 8.00 8.13 8.41 = 8.20 .15 .07 .21
✓
8.13 r 0 e 8.13
8.41 r 1 d 8.51

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1899phae.proj..711B

Oct. 499

(M. -9°2612 (Cont.)

B2469 Sfr.

✓ 8.13	c 2 r	8.33	8.31 = 8.32	.01	.01
8.31	r 2 d	8.31			

✓ Q999 Poor plate

B15719

✓ 8.13	c 2 r	8.33	8.41 = 8.37	.04	.04
8.41	r 1 d	8.51			

✓ Q3350

7.63	a 3 r f m.s	7.93				

B20554

✓8.13	c 2 r	8.33	8.51	8.66 = 8.50	.17	.01 .16
8.51	r 0 d	8.51				
8.66	r 2 e	8.86				

✓ B2486

8.13	c 1 r	8.23	8.41 = 8.32 =	.09	.09	
8.41	r 1 d	8.51				

✓ Q12901 Sfr.

8.51	d 2 r	8.71	8.76 = 8.74	.03	.02	
8.76	r 1 e	8.86				

✓ B19463

8.13	c 2 r	8.33	8.31 = 8.32 =	.01	.01	
8.31	r 2 d	8.51				

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1899phae.proj..711B

Oct. 4, 99

D. M. −9° 2612 (Cont.)

Q 12326

8.√13	c 2 r	8.33	8.21 = 8.27	.06	.06
8.21	r 3 d	8.0⁻1			

B 17525

8.√13	c 3 r	8.43	8.31 = 8.37	.06	.06
8.31	r 2 d	8.0⁻1			

Q 20441

7.√85⁻	b 2 r	8.00⁻			
	c n.s				

B 20310

7.√85⁻	b 3 r	8.10⁻			
	c n.s				

B 18602

7.√63	a 1 r	7.73	7.70⁻ = 7.74	.01	.01
7.70⁻	r 1 b	7.85⁻			

B 18254

8.√13	c 2 r	8.33	8.31 = 8.32	.01	.01
8.31	r 2 d	8.0⁻1			

B 15633

8.√13	c 2 r	8.33	8.41 = 8.37	.04	.04
8.41	r 1 d	8.0⁻1			

B 22426

√ 7.63	a 2 r	7.83	7.75 = 7.79	.04	.04
7.75⁻	r 1 b	7.85⁻			

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1899phae.proj..711B

Oct. 4 1899

R. M. -9° 2612 (Cont.)

B 21400

7.√63	a 2 r	7.83	7.0̄3̄ = 7.69	.14	.14
7.0̄3̄	r 3 b	7.8̄3̄			

√ L 22086

Just off edge of plate.

L 22336

7.√8̄3̄	b 2 r	8.0̄3̄	7.93 = 7.99	.06	.06
7.93	r 2 c	8.13			

B 20999

√8.13	c 3 r	8.43	8.31 = 8.37	.06	.06
8.31	r 2 d	8.0̄1			

B 21837

7.√63	a 1 r	7 8.73	7.73̄ = 7.74	.01	.01
7.73̄	r 1 b	7.8̄3̄			

L 10906

√8.0̄1	d 2 r	8.71	8.66 = 8.68	.03	.02
8.66	r 2 e	8.86			

L 20489

8.√0̄1	d 2 r	8.71	8.66 = 8.66	.03	.02
8.66	r 2 e	8.86			

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1899phae.proj..711B

October 9, 1899-

New Variable in R Piscor.

A.R. 5-428 + 43.5 -49° 25'

Comp. Stars marked on B 4290

B 4290

7.97 C 2 r 8.17 8.15 = 8.16 .01 .01

8.15 r 1 d 8.25

B 12488

✓ 8.83 f 3 r 9.19

g n, s

B 12751 Sp.

✓ 8.25 d 5 r 8.75

e ff film

B 10844

7.97 c 2 r 8.17 8.15 = 8.16 .01 .01

8.15 r 1 d 8.25

B 14539

✓ 8.25 d 1 r 8.35 8.25 = 8.30 .05 .05

8.25 r 3 e 8.55

B 14842

✓ 8.55 e 2 r 8.75 8.63 = 8.69 .06 .06

8.63 r 2 f 8.83

B 18796

✓ 9.75 R 1 r 9.85 9.77 = 9.81 .04 .04

9.77 r 2 L 9.97

✓ B 7100

8.25 d 1 r 8.35 8.35 = 8.35

8.35 r 2 e 8.55

✓ B 8961 Sp.

8.55 e 2 r 8.75 8.73 = 8.74

8.73 r 1 f ? 8.83

✓ B 8992 Sp.

Pouring.

✓ B 9018 Sp.

Pouring.

B 9024 Sp.

✓ 7.97 r 2 r 8.17 7.95 = 8.06

7.95 r 3 d 8.25

✓ B 10754

8.25 d 2 r 8.45 8.55 = 8.50

r 1 e 8.55

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1899phae.proj..711B

October 9, 1899.

h m ° ′
4 49.5⁻ - 49 25⁻

B 9024 Sp.

7.97	c 1 r	8.07	8.15 =	8.11	.04	.04	
8.15⁻	r 1 d	8.25⁻					

B 12640 Sp.

✓ 8.05⁻	e = 2	< 8.75⁻					
	r m 5						

B 16821

✓ 7.77	h 1 r	7.87	7.97	8.15⁻ =	8.00	.13	.03 .15⁻
7.97	r 0 c	7.97					
8.15⁻	r 1 d	8.25⁻					

B 16551

✓ 7.97	c 2 r	8.17	7.95⁻ =	8.06	.11	.11	
7.95⁻	r 3 d	8.25⁻					

B 16665⁻

✓ 9.97	e 1 r	10.07	10.19 =	10.13	.06	.06	
10.19	r 1 m	10.29					

B 15489

✓ 8.25⁻	d 3 r	8.55⁻	8.35 =	8.45⁻	.10	.10	
8.65⁻	r 2 E	8.55⁻					

B 17139⁻

✓ 8.25⁻	d 2 r	8.45⁻	8.45 =	8.45⁻	00	00	
8.45⁻	r 1 E	8.55⁻					

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1899phae.proj..711B

Oct. 9. '99.

h m ° ′
4 43.8⁻ – 49 28⁻

B 17307.

✓	8.23⁻	d 2 r	8.43⁻	8.33⁻ = 8.40	.03⁻ .03⁻
	8.33⁻	r 2 E	8.53⁻		

B 18278

	7.57	a 2 r	7.77	7.67 = 7.72	.03⁻ .03⁻
✓	7.67	r 1 b	7.77		

B 18926

✓	8.23⁻	d 1 r	8.33⁻	8.33⁻ = 8.33⁻	00 00
	8.33⁻	r 2 E	8.03⁻		

B 17380

✓	8.83	f 1 r	8.93	8.93⁻ = 8.94	.01 .01
	8.93⁻	r 2 g	9.13⁻		

B 17928

✓	8.23⁻	d 1 r	8.33⁻	8.33⁻ = 8.33⁻	00 00
	8.33⁻	r 2 E	8.53⁻		

B 12486

✓	8.83	f 2 r	9.03	8.93⁻ = 8.99	.04 .04
	8.93⁻	r 2 g	9.13⁻		

B 13⁻105

✓	8.83	f 2 r	9.03	9.03⁻ = 9.04	.01 .01
	9.03⁻	r 1 g	9.13⁻		

B 13⁻197

✓	8.53⁻	E 2 r	8.73⁻	8.63 = 8.69	.06 .06
	8.63	r 2 f	8.83		

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1899phae.proj..711B

Oct. 9, 1899.

h m
4.43.5 − 49° 2 5′

B 17667

✓ 8.83 f 1 r 8.93 8.95 = 8.94 .01 .01
8.95 r 2 g 9.15

B 18618

✓ 9.43 h 1 r 9.53 9.65 = 9.59 .06 .06
9.65 r 1 k 9.75

B 15-337

✓ 8.25 d 2 r 8.45 8.25 = 8.35 .10 .10
8.25 r 3 E 8.55

B 15-664

✓ 8.55 E 1 r 8.65 8.63 = 8.64 .01 .01
8.63 r 2 f 8.83

B 15-490

✓ 8.35 d 2 r 8.45 8.35 = 8.40 .05 .05
8.35 r 2 E 8.55

B 16997

✓ 7.97 e 1 r 8.07 8.25 8.35 = 8.22 .15 .03 .13
8.25 r 0 d 8.25
8.35 r 2 E 8.55

B 18131

✓ 7.77 f 2 r 7.97 7.87 = 7.92 .05 .05
7.87 r 1 e 7.97

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1899phae.proj..711B

Oct. 9, 1899.

h m ° ′
4 43.0 − 49 20

B 17473

✓ 8.83	f 1 r	8.93	9.00 = 8.99	.06	.06
9.00	r 1 g	9.13			

B 12016 Sp.

7.97	c 2 r	8.17	8.00 = 8.11	.06	.06
8.00	r 2 d	8.23			

B 14872

✓ 8.83	f 2 r	9.03	8.93 = 8.99	.04	.04
8.93	r 2 g	9.13			

B 14608

✓ 8.20	d & r	8.33	8.33 = 8.33	00	00
8.33	r 2 ε	8.53			

B 14014

7.97	c 2 r	8.17	8.13 = 8.16	.01	.01
8.13	r 1 d	8.23			

B 12 45 3

✓ 8.20	d 1 r	8.33	8.33 = 8.33	00	00
8.33	r 2 ε	8.53			

B 7093
Poor plate

B 12 648 Sp.

✓ 8.20	d = .8	< 8.3 3
	r n.s					

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1899phae.proj..711B

Oct. 9, 1899
h m
4 43.5 - 49° 25'

B 18460 Spr.

✓ 7.97 c 2 r 8.17 8.15 = 8.16 .01 .01
8.15 r 1 d 8.25

B 8961 Spr.

8.05 ε = .1 < 8.65
r m.s

B 3-774 Spr.
Poor plate

B 4743 Spr
Poor plate

B 10754 Spr.

8.25 d = .9 < 8.05
r m.s

B 12 ~~8.25~~ 8.34

8.25 d 2 r 8.45 8.35 = 8.40 .05 .05
8.35 r 2 ε 8.05

B 17828

✓ 8.25 d 2 r 8.45 8.35 = 8.40 .05 .05
8.35 r 2 ε 8.05

B 17279

✓ 8.25 d 2 r 8.05 8.35 = 8.45 .10 .10
8.35 r 2 ε 8.05

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1899phae.proj..711B

Oct. 9, 1899
h m
4 49.5 - 49 25'

B 18368

✓ 8.25 d 1 r 8.35 8.25 = 8.30 .05 .05
8.25 r 3 E 8.55

B 14416

✓ 7.77 b 1 r 7.87 7.87 = 7.87 00 00
7.87 r 1 c 8.97

B 15-33-8

✓ 8.30 d 1 r 8.35 8.35 = 8.35 00 00
8.85 r 2 E 8.55

B 7100

8.25 d 1 r 8.35 8.25 = 8.30 .05 .05
8.25 r 3 E 8.55

B 14609

7.77 b 1 r 7.87 7.97 8.15 = 8.00 .13 .03 .15
✓ 7.97 r 0 c 7.97
8.15 r 1 d 8.25

B 18500

✓ 8.25 d 1 r 8.35 8.35 = 8.35 00 00
8.35 r 2 E 8.55

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1899phae.proj.711B

Oct. 10, 1899.

4h 43m.5 - 49° 25' Cont.

B 20891

✓	8.25	d 1 r	8.85			
		E m.s				

B 22123

✓	7.77	b 1 r	7.87	7.87 = 7.87	00	00
	7.87	r 1 c	7.97			

B 20889

✓	7.57	a 1 r	7.67	7.67 = 7.67	00	00
	7.67	r 1 f	7.77			

B 22246

✓	8.25	d 1 r	8.95	8.95 = 8.95	00	00
	8.85	r 3 E	8.05			

B 20925

✓	7.97	c 2 r	8.17	8.15 = 8.16	.01	.01
	8.15	r 1 d	8.25			

B 20342

✓	8.55	e 1 r	8.65	8.73 = 8.69	.04	.04
	8.73	r 1 f	8.83			

B 19986

✓	8.25	d 2 r	8.45	8.55 8.73 = 8.58	.13	.03 .13
	8.55	r 0 2	8.55			
	8.73	r 1 f	8.83			

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1899phae.proj..711B

Oct. 10, 1899.

h m
4 43.3 − 49° 23′ Cont.

B1986 3−

✓ 8.23− d 1 r 8.33− 8.43− = 8.40 .03− .03−
8.43− r 1 E 8.3 3−

B1912 3

✓ 8.23− d 1 r 8.33− 8.33− = 8.33 00 00
8.33− r 2 E 8.3 3−

B 203-9 2

✓ 8.3 3− e 2 r 8.73− 8.73 = 8.74 .01 .01
8.73 r 1 f 8.83

B 2239 16

7.97 e 1 r 8.07 8.23− 8.43− = 8.26 .19 .01 .19
✓ 8.23− r 0 d 8.23−
8.43− r 1 E 8.3 3−

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1899phae.proj..7118

October 18, 1899.

New Variable in Orion

R.A. $+0^{h}\,0^{m}\,39^{s}.4$ $5^{s}\,7'.9$ + $0^{\circ}\,8'$ (1850)

Comparison Stars mark on D 7716.

D 7716

9.9s	ε	1	r	10.0s	10.43	10.68 = 10.39	.34	.04 .29
10.43	r	0	f	10.43				
10.68	r	2	g	10.88				

D 18706

✓ 9.07	e	1	r	9.17	9.3s = 9.26	.09	.09	
9.3s	r	2	d	9.5s				

D 143-90 Sp.

✓ 9.07	e	1	r	9.17	9.4s = 9.31	.14	.14	
9.4s	r	1	d	9.5s				

B 1065-45 Sp.

1 9.5s	d	1	r	9.6s	9.8s = 9.7s	.10	.10	
9.8s	r	1	ε	9.9s				

B 12676 Sp.

✓ 9.5s	d	1	r	9.6s	9.7s = 9.70	.05	.05	
9.7s	r	2	ε	9.9s				

D 13975

✓ 8.49	b	2	r	8.69	8.97 = 8.83	.14	.14	
8.97	r	1	e	9.07				

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1899phae.proj..711B

October 18, 1899.

h m
4 57.9 +0 5'8 (185-5-) (Cont.)

l 14189

	9.85-	d 2 r	9.75-	9.98-	10.33 = 10.01	.26	.06	.32
✓	9.98-	r 0 e	9.98-					
	10.33	r 1 f	10.43					

l 14481 Sf.

✓	9.98-	e 2 r	10.18-	10.23	= 10.19	.04	.04	
	10.23	r 2 f	10.43					

l 16302

✓	8.49	f 3 r	8.79	8.87	= 8.83	.04	.04	
	8.87	r 2 c	9.07					

l 11904

✓	9.07	c 2 r	9.27	9.85-	9.75- = 9.82	.25-	.03	.23
	9.85-	r o d	9.85-					
	9.75-	r 2 e	9.98-					

l 12466

✓	10.48	f 1 r	10.83	10.78	= 10.66	.13	.12	
	10.78	r 1 g	10.88					

l 16987

✓	8.49	f 2 r	8.69	8.97	= 8.83	.14	.14	
	8.97	r 1 c	9.07					

l 16342

✓	8.49	f 3 r	8.79	8.87	= 8.83	.04	.04	
	8.87	r 2 c	9.07					

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1899phae.proj..711B

Oct. 18, 1899

h m
4 57.9 + 0 ° 5′ 8 (185-5) Cont.

l 16371

✓	8.49	b 2 r	8.69	8.87 = 8.78	.09	.09	
	8.87	r 2 c	9.07				

l 16606

✓	8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	
	8.97	r 1 c	9.07				

l 12394

✓	10.88	g 1 r	10.98	11.23 = 11.10	.12	.13	
	11.23	r 1 h	11.33				

l 13953

✓	9.07	c 1 r	9.17				
		d n.s					

l 14226

✓	8.49	b 2 r	8.69	9.07	9.45 = 9.07	.38	~~.00~~ .38
	9.07	r 0 c	9.07				
	9.45	r 1 d	9.55				

l 18586

✓	9.07	c 1 r	9.17	9.45 = 9.31	.14	.14	
	9.45	r 1 d	9.55				

l 14716

✓	9.55	d 1 r	9.65	9.75 = 9.70	.05	.05	
	9.75	r 2 e	9.95				

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1899phae.proj..711B

Oct. 18, 1899.

h m
4 5-7.9 + 0° 5-8 (185-5-) Cont.

l 16244

✓ 8.49	b 1 r	8.5-9	8.87 =	8.73	.14	.14
8.87	r 2 c	9.07				

l 165-32

✓ 8.49	b 1 r	8.5-9	8.87 =	8.73	.14	.14
8.87	r 2 c	9.07				

l 16769

✓ 8.49	b 2 r	8.69	8.97 =	8.83 =	.14	.14
8.97	r 1 c	9.07				

l 15-744

✓ 8.49	b 1 r	8.5-9	8.87 =	8.73	.14	.14
8.87	r 2 c	9.07				

l 15-985-

✓ 8.49	b 1 r	8.5-9	8.87 =	8.73	.14	.14
8.87	r 2 c	9.07				

l 18726

✓ 9.07	c 2 r	9.27	9.45- =	9.36	.09	.09
9.45-	r 1 d	9.5-5-				

l 18869

✓ 9.07	c 1 r	9.17	9.5-5-	9.85- =	9.5-2	.33-	.03 .33
9.5-5-	r o d	9.5-5-					
9.85-	r 1 e	9.95-					

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1899phae.proj..711B

Oct. 18, 1899.

h m
4 57.9 + 0° 58 (1855) Cont.

L 13941

✓	8.49	b 2 r	8.69	8.87 = 8.78	.09	.09	
	8.87	r 2 c	9.07				

✓ L 17520

	9.55	d 1 r	9.65	9.75 = 9.70	.05	.05	
	9.75	r 2 e	9.95				

L 13802

✓	9.07	c 1 r	9.17	9.35 = 9.26	.09	.09	
	9.35	r 2 d	9.55				

L 13821

✓	8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	
	8.97	r 1 c	9.07				

L 13649

	8.49	b 1 r	8.59	9.07	9.45 = 9.04	.45	.03 .41
✓	9.07	r 0 c	9.07				
	9.45	r 1 d	9.55				

R 14949 Sp.

✓	8.49	b 2 r	8.79	8.97 = 8.88	.09	.09	
	8.97	r 1 c	9.07				

R 12991 Sp.

✓	9.07	c 1 r	9.17				
		d n,s					

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1899phae.proj.7118

Oct. 18 1899

$4^h\ 5^m 7.9 + 0^\circ\ 5' 8$ (1855) Cont.

λ 16740 Spr.

✓ 8.49	b 1 r	8.59	8.87 = 8.73	.14	.14	
8.87	r 2 C	9.07				

λ 14632 Spr.

✓ 9.07	C 1 r	9.17	9.45 = 9.31	.14	.14	
9.45	r 1 d	9.55				

λ 16578

✓ 8.49	b 1 r	8.59	8.87 = 8.73	.14	.14	
8.87	r 2 C	9.07				

β 15552

✓ 8.89	f 4 r	8.89	8.97 = 8.93	.04	.04	
8.97	r 1 C	9.07				

λ 12500

✓ 10.43	f 1 r	10.53	10.88 11.13 = 10.85	.92	.03	.28
10.88	r 0 g	10.88				
11.13	r 2 h	11.83				

λ 17037

✓ 8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	
8.97	r 1 C	9.07				

λ 19223

8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	(Reject)
8.97	r 1 C	9.07				

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1899phae.proj..711B

Oct. 18, 1899.

h m
4 57.9 +0° 5' 8 (1855.5) Cont.

1 17285

✓	8.49	b 3 r	8.79	8.87 = 8.83	.04	.04
	8.87	r 2 c	9.07			

R 14923

✓	9.95	e 2 r	10.15	10.33 = 10.24	.09	.09
	10.33	r 1 f	10.43			

R 14768

✓	9.07	c 2 d	9.27	9.45 = 9.36	.09	.09
	9.45	r 2 f	9.55			

R 14630

✓	9.07	a 1 r	9.17	9.55 9.85 = 9.52	.33	.03 .33
	9.55	r 0 d	9.55			
	9.85	r 1 e	9.95			

R 14575

✓	8.49	f 2 b	8.69	8.87 = 8.78	.09	.09
	8.87	r 2 c	9.07			

1 14568

✓	9.95	e 1 r	10.05	10.23 = 10.14	.09	.09
	10.23	r 2 f	10.43			

1 14571

✓	9.95	e 2 r	10.15	10.33 = 10.24	.09	.09
	10.33	r 1 f	10.43			

B 12728

✓	9.95	e 1 r	10.05	10.33 = 10.19	.14	.14
	10.33	r 1 f	10.43			

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1899phae.proj.7118

Oct. 18, 1899

h m
4 07.9 + 0° 07' 8 (1855.0) Cont.

l 14642

✓ 9.95⁻	e 1 r	10.05⁻	10.23 = 10.14	.09	.09	
10.23	r 2 f	10.43				

l 14644

✓ 9.95⁻	e 1 r	10.05⁻	10.23 = 10.14	.09	.09	
10.23	r 2 f	10.43				

l 14668

✓ 9.07	c 2 r	9.27	9.45⁻ = 9.36	.09	.09	
9.45⁻	r 1 d	9.65⁻				

l 14445⁻

✓ 9.65⁻	d 1 r	9.85⁻	9.95⁻	10.33 = 9.98	.33	.03 .35⁻
9.95⁻	r 0 e	9.95⁻				
10.33	r 1 f	10.43				

l 14117 + l 14125⁻

✓ 8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	
8.97	r 1 c	9.07				

l 14130

✓						
8.49	b 3 r	8.79	8.97 = 8.88	.09	.09	
8.97	r 1 c	9.07				

l 14194

9.07	c 2 r	9.27	9.65⁻ 9.85⁻ = 9.56			
✓ 9.65⁻	r 0 d	9.65⁻	29 .01 .29			
9.85⁻	r 1 e	9.95⁻				

✓ l 14246

8.49	b 2 r	8.69	8.97 = 8.83	.14	.14	
8.97	r 1 c	9.07				

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1899phae.proj..711B

Oct. 19, 1899.

h m s ° ′ ″
4 57.9 + 0 5 8 (180°5) Cont?

λ 19463

✓ 9.07	c 2 r	9.27	9.45 =	9.36	.09	.09
9.45	r 1 d	9.55				

λ 22425

9.95	e 1 r	10.05	10.33 =	10.19	.14	.14
✓ 10.33	r 1 f	10.43				

λ 22400

✓ 9.95	e 1 r	10.05	10.33 =	10.19	.14	.14
10.33	r 1 f	10.43				

λ 22236

✓ 9.07	c 2 r	9.27	9.45 =	9.36	.09	.09
9.45	r 1 d	9.55				

λ 21486

✓ 9.07	c 2 r	9.27	9.55	9.85 =	9.56	.29 .01 .29
9.55	r o d	9.55				
9.85	i 1 e	9.95				

λ 20570

✓ 9.95	e 1 r	10.05	10.23 =	10.14	.09	.09
10.23	r 2 f	10.43				

λ 20191

✓ 8.49	f 2 r	8.69	8.97 =	8.83	.14	.14
8.97	r 1 e	9.07				

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1899phae.proj..711B

Oct. 19, 1899.

h m
4 57.9 +0° 58' (180-3) Cont.

l 20099

✓ 9.07 c 1 r 9.17 9.48- = 9.31 .14 .14
9.48- r 1 d 9.58-

l 19922

✓ 9.58- d = 1 < 9.68-
r m S

l 21903 Sh.

✓ 9.07 c 1 r 9.17 9.48- = 9.31 .14 .14
9.48- r 1 d 9.58-

l 19223

✓ 9.07 c 1 r 9.17 9.48- = 9.31 .14 .14
9.48- r 1 d 9.58-

l 23775-

✓ 9.07 c 2 r 9.27 9.48- = 9.36 .09 .09
9.48- r 1 d 9.58-

l 19005- Sh.

✓ 8.49 f 2 r 8.69 8.87 = 8.78 .09 .09
8.87 r 2 c 9.07

l 19185- Sh.

✓ 8.49 f 2 r 8.69 8.77 = 8.73 .04 .04
8.77 r 3 c 9.07

✓ l 12227 Sh.
9.93- c 2 r 10.18- 10.23=

l 14422

✓ l 19121 Sh. 10.23 r 2 f 10.43
10.19 .04 .04
9.07 c 2 r 9.27 9.48- = 9.36 .09 .09 8.49 f 2 r 8.69 8.87 = 8.78 .09 .09
9.48- r 1 d 9.58- 8.87 r 2 c 9.07

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1899phae.proj..711B

Oct. 19, 1899.

New Var. in T Leporis,
h m
R.A. −22 995 δ 0.6 −22° 2'
Comparison stars mark on ℓ 12464

ℓ 12464

10.24	h 2 r	10.44	10.64 =	10.54	.10	.10	
10.64	r 1 k	10.74					

B 18217

✓ 8.49	d 1 r	8.59	8.77 =	8.68	.09	.09	
8.77	r 2 ε	8.97					

B 10679

8.87	r 1 ε	8.97					
	d n.s						

✓ ℓ 195-06

8.49	d 1 r	8.59	8.77 =	8.68	.09	.09	
8.77	r 2 ε	8.97					

ℓ 19222

✓ 8.97	ε 2 r	9.17	9.37	9.72 =	9.42	.28	.05	.30
9.37	r o f	9.37					
9.72	r 1 g	9.82					

B 4310

9.82	g 1 r	9.92	10.24	10.54 =	10.23	.31	.01	.31
10.24	r o k	10.24						
10.54	r 2 k	10.74						

✓ ℓ 12573
Useless

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1899phae.proj..711B

Oct. 19, 1899.

B.A.Q. $-22^{\circ}995$ Cont.

B4600

8.97	E 2 r	9.17	9.17 = 9.17	00	00
9.17	r 2 f	9.37			

B4157

Too near edge of plate.

B18215

✓ 8.49	d 2 r	8.69	8.77 = 8.73	.04	.04
8.77	r 2 E	8.97			

B18136

✓ 8.49	d 2 r	8.69	8.77 = 8.73	.04	.04
8.77	r 2 E	8.97			

B17830

✓ 8.49	d 1 r	8.59	8.87 = 8.73	.14	.14
8.87	r 1 E	8.97			

B17851

✓ 8.49	d 1 r	8.59	8.77 = 8.68	.09	.09
8.77	r 2 E	8.97			

B17670

✓ 8.97	E 1 r	9.07	9.27 = 9.17	.10	.10
9.27	r 1 f	9.37			

B17645

✓ 9.37	f 2 r	9.57	9.82	10.04 = 9.81	.24	.01 .23
9.82	r 0 g	9.82				
10.04	r 2 h	10.24				

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1899phae.proj..711B

Oct. 19, 1899

B.A.Q. −22° 995 Cont.

B 17283

✓	10.24	h 2 r	10.44	10.64 = 10.54	.10	.10
	10.64	r 1 k	10.74			

B 15-251

✓	8.49	d 2 r	8.69	8.77 = 8.73	.04	.04
	8.77	r 2 e	8.97			

B 14798

✓	9.37	f 2 r	9.57	9.62 = 9.60	.03	.02
	9.62	r 2 g	9.82			

B 17770

✓	9.37	f 2 r	9.57	9.82 10.04 = 9.81	.24	.01	.33
	9.82	r 0 g	9.82				
	10.04	r 2 h	10.24				

B 14577

✓	9.82	g 1 r	9.92	10.04 = 9.98	.06	.06
	10.04	r 2 h	10.24			

B 14692

✓	9.37	f 2 r	9.57	9.72 = 9.64	.07	.08
	9.72	r 1 g	9.82			

Near edge

B 12729

	7.59	h 3 r	7.89	7.94 = 7.92	.03	.02
	~~8.49~~		~~8.69~~	~~8.87 = 8.78~~	~~.09~~	~~.09~~
	7.94		8.04			
	~~8.87~~	r 1 e	~~8.97~~			

B 20385

✓	10.24	h 1 r	10.34	10.64 = 10.44	.10	.10
	10.64	r 2 k	10.74			

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1899phae.proj..711B

Oct. 19, 1899.

R.A. −22 995 Cont.

R 12485

8.49	d 2 r	8.69	8.87 = 8.78	.09	.09
8.87	r 1 E	8.97			

l 18727

✓ Iron plate

l 17056

✓ 9.87	f 2 r	9.57	9.72 = 9.64	.07	.08
9.72	r 1 g	9.82			

l 17515

✓ 10.74	k 1 r	10.84	10.94 = 10.89	.05	.05
10.94	r 2 l	11.14			

R 16531

✓ 8.49	d 2 r	8.69	8.77 = 8.73	.04	.04
8.77	r 2 E	8.97			

l 16245

✓ 9.87	f 2 r	9.57	9.72 = 9.64	.07	.08
9.72	r 1 g	9.82			

l 17284

✓ 10.84	k 1 r	10.84	10.54 = 10.44	.10	.10
10.54	r 2 k	10.74			

l 16771

✓ 8.49	d 2 r	8.69	8.77 = 8.73	.04	.04
8.77	r 2 E	8.97			

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1899phae.proj..711B

Oct. 19, 1899.

R.A. −22° 995 Cont.

l 14715

✓ 8.04 C = 1 < 8.14

r m s

l 14438

✓ 8.04 C = 1 < 8.14

r m s

l 13960

✓ 10.24 h 2 r 10.44 10.54 = 10.49 .05 .05

10.54 r 2 k 10.74

l 14377

✓ 9.37 f 2 r 9.57 9.72 = 9.64 .07 .08

9.72 r 1 g 9.82

l 13870

✓ 8.04 C 1 r 8.14 8.39 = 8.26 .12 .13

8.39 r 1 d 8.49

l 14643

✓ 10.24 h 2 r 10.44 10.74 10.94 = 10.71 .27 .03 .23

10.74 r 0 k 10.74

10.94 r 2 l 11.14

l 12485

10.24 h 2 r 10.44 10.74 = 10.59 .15 .15

10.74 r 0 k 10.74

l m s

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1899phae.proj..711B

Oct. 19, 1899.

B.A.C. – 22 990 cont.

L 12567

✓ 9.82 g = 2 < 10.02
r n s

L 13804

✓ 8.49 d 1 r 8.59 8.77 = 8.68 .09 .09
8.77 r 2 e 8.97

L 13651

✓ 9.87 f 2 r 9.57 9.82 10.04 = 9.81 .24 .01 .23
9.82 r 0 g 9.82
10.04 r 2 h 10.24

B 20203

✓ 10.24 h 2 r 10.44 10.54 = 10.49 .05 .05
10.54 r 2 k 10.74

B 18369

✓ 9.87 f 2 r 9.57 9.72 = 9.64 .07 .08
9.72 r 1 g 9.82

B 19957 Spr.

✓ 10.74 k 1 r 10.84
l n s

B 12628 Spr.

8.49 d 2 r 8.69
e n s

✓ L 14570

Useless

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1899phae.proj..711B

Oct. 19, 1899

B.A.C. -22° 9905 Cont.

B 17429 Spv.

✓ 8.04 c = 2 < 8.24

r n.s

B 14948 Spv.

d not on pl. 8.77

✓ 8.77 r 2 e 8.97

B 17402 Spv.

✓ 9.37 f = 1 < 9.47

r n.s

B 7047 Spv.

8.04 c = 1 < 8.14

r n.s

B 4417 Spv.

Poor plate

✓ B 17416 Spv.

8.49 d = 2 < 8.69

r n.s

B 146 ~~28~~ 32 Spv.

9.87 f 2 r 9.57 9.72 = 9.64 .07 .08

9.72 r 1 g 9.82

B 4334 Spv.

Poor plate

B 7146 Spv.

7.59 f = 1 < 7.69

r n.s

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1899phae.proj..711B

Oct. 20, 1899.

B.A.C. -22° 995 Const

ℓ 20130

✓ 10.24 h 1 r 10.34 10.64 = 10.49 .15 .15
10.64 r 1 k 10.74

ℓ 20235-4

✓ 10.24 h 2 r 10.44 10.64 = 10.54 .10 .10
10.64 r 1 k 10.74

ℓ 20235-5

✓ 10.24 h 3 r 10.44 10.64 = 10.54 .10 .10
10.64 r 2 k 10.74

ℓ 20340

✓ 9.82 g 1 r 9.92 10.04 = 9.98 .06 .06
10.04 r 2 h 10.24
✓ 10.14 k 1 r 10.84
ℓ 2 k

ℓ 19710

✓ 8.49 d 2 r 8.69 8.97 9.27 = 8.98 .29 .01 .29
8.97 r 0 ε 8.97
9.27 r 1 f 9.37

ℓ 19863

✓ 8.97 ε 1 r 9.07 9.37 9.62 = 9.35 .28 .02 .27
9.37 r 0 f 9.37
9.62 r 2 g 9.82

B 22964

✓ 8.49 d 1 r 8.59 8.77 = 8.68 .09 .09
8.77 r 2 ε 8.97

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1899phae.proj..711B

Oct. 20, 1899.

B.Q. $-22^{\circ}\,99^{5}$

B22286

✓ 8.49 d 1 r 8.59 8.87 = 8.73 .14 .14

8.87 r 1 E 8.97

B22121

✓ 8.97 E = .3 < 9.27

r n.s (on edge)

B22120

✓ 8.49 d 2 r 8.69 8.87 = 8.78 .09 .09

8.87 r 1 E 8.97

B20924

✓ 8.49 d 2 r 8.69 8.87 = 8.78 .09 .09

8.87 r 1 E 8.97

B20892

✓ 8.49 d 1 r 8.59 8.87 = 8.73 .14 .14

8.87 r 1 E 8.97

B20741

✓ 8.97 E = .4 < 9.37

r n.s

B20740

✓ 8.49 d 1 r < 8.59

E n.s

A2205

9.82 g 1 r 9.92 10.14 = = 10.03 .11 11

10.14 r 1 h 10.24

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1899phae.proj..711B

Oct. 23, 1899.

G. C. σ⁻ 289

h m ° ′
σ⁻ 8.3 −.48 38

Pictor (No. 2)

Comparison Stars mark. on B 12166.

B 12166

11.98 h 1 σ 12.08 12.38 = 12.23 .13⁻ .13⁻
12.38 σ 2 k 12.8-8

B 16997

✓ 13.67 m = .1 Near edge of plate. < 13.77
σ n.s

B 18131

✓ 10.85⁻ f = .1 near edge of plate. < 10.95⁻
σ n.s

B 17580

✓ 11.98 h = .1 < 12.08 edge of plate⁻
σ n.s

B 17479

✓ 13.30 m = .1 " " " " < 13.40
σ n.s

B 18524 Nf.

✓ 8.73 b = .4 < 9.13
σ n.s

B 26890 11.74 av 04

11.40 g 3 σ 11.70 11.78 =
11.78 σ 2 h 11.98

B 12016 Nf.

8.73 ~~b 2~~ b 2 σ 8.93
~~σ n.s~~ σ n.s

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1899phae.proj..711B

Oct. 23, '99.
Pickering (2)

B 4414 Spr.

8.73 ~~Poor plate~~ b = 1 < 8.89
r m.s

B 5808 Spr.

8.48 a = 1 < 8.58
r m.s

B 9024 Spr.

8.48 a = 1 < 8.58
r m.s

B 12640 Spr.

✓ 8.48 a 4 r 8.88 8.63 = 8.76 .12 .13
8.63 r 1 b 8.73

B 12488

✓ 8.48 a 1 r 8.58 8.63 = 8.60 .02 .03
8.63 r 1 b 8.73

B 12566

✓ 8.73 b 1 r 8.83 8.9 = 8.86 .03 .04
8.9 r 3 c 9.2

B 12486

✓ 8.73 b 2 r 8.93 8.9 = 8.9 .01 .02
8.9 r 3 c 9.2

B 13-103 near edge.

✓ 13.67 m = 1 < 13.77
r m.s

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1899phae.proj..711B

Oct. 23, 1899

Pleiades (2)

7

B 15-197

✓ 11.98 h = .1 < 12.08

r m.s

B 17928

✓ 12.58 h = .1 < 12.68

r m.s

B 17672

✓ 11.40 g = .1 < 11.50

r m.s

B 17667

✓ 12.58 h .1 < 12.68

r m.s

B 18477

✓ 11.98 h = .1 < 12.08

r m.s

8

B 19618 ✗

✓ 9.50 r 2 d 9.70 9.50

c m.s

B 15-337

✓ 9.70 d 2 r 9.90 10.10 = 10.00 .10 .10

10.10 r e e 10.30

B 15664

✓ 11.98 h = .1 < 12.08

r m.s

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1899phae.proj..711B

Oct. 29, 1899

Pickett (2)

B 15490

✓ 9.20 c = .2 < 9.40
r m.s

B 10844

11.98 h = .1 < 12.08
r m.s

B 1273-1 Nfr.

✓ 9.28 c 2 r 9.48 9.50 = 9.48 − .01 − .01
9.50 r 2 d. 9.70

B 14609

✓ 11.98 h = .2 < 12.18
r m.s

B 7100

11.98 h = .2 < 12.18
r m.s

✓ B 14339

13.67 n = .1 < 13.77
r m.s

✓ B 14886

11.98 h = .1 < 12.08
r m.s

✓ B 14842

11.98 h = .1 < 12.08
r m.s

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1899phae.prj..711B

Oct. 23 1899

Victor (2)

B 14773

12.93 c = 2 < 13.13

r n, s

B 20891

✓ 12.58 [illegible] 1 r 12.68 12.83 = 12.76 .08 .07

12.83 r 1 c 12.93

B 20592

✓ 13.30 m 1 r 13.40 13.57 = 13.48 .08 .09

13.57 r 1 m 13.67

B 20342

✓ 12.93 c 1 r 13.03 13.20 = 13.12 .09 .08

13.20 r 1 m 13.30

B 20180

✓ 10.30 e = .1 < 10.40

r n, s

B 19986

✓ 11.40 g 2 r 11.60 11.88 = 11.74 .14 .14

11.88 r 1 h 11.98

B 19123

✓ 9.20 c 1 m 9.30 9.60 = 9.45 .15 .15

9.60 r 1 d 9.70

✓ B 18996

10.85 f = .1 < 10.95

r n, s

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1899phae.proj..711B

Oct. 24 1899

Pictor (2)

B20925

✓ 13.67 m = .1 < 13.77
rms

B22089

✓ 12.58 h 1 r 12.68 12.83 = 12.76 .08 .07
12.83 r 1 l 12.93

B22123

✓ 13.30 m 1 r 13.40 13.57 = 13.48 .08 .09
13.57 r 1 m 13.67

B22256

✓ 12.58 h = 2 < 12.78
rms

B22316

✓ 11.98 h = .1 < 12.08
rms

B22318

✓ 12.58 h = .1 < 12.68
rms

13 35 8
B ~~1866~~ ✓ K.
Foomeal edge.

B 15489
Foomeal edg.

B16372
Foomeal edge

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1899phae.proj.7118

Oct. 26, 1899

New Var. in Columba

h m
a 5h 6135 5 15.6 −33 48 8 (1900)
Comp. stars in Arkansas (B 10678)?
B 14771

B 20526 Sp.

7.23		7.43	7.71 = 7.57		
✓ ~~7.15~~	a 2 r	~~7.33~~	~~7.69 = 7.49~~	.14	.14
7.71		7.81			
~~7.63~~	r 1 b	~~7.79~~			

B 20345

✓ 7.23		7.33	7.61 = 7.47		
~~7.15~~	a 1 r	~~7.25~~	~~7.59 = 7.39~~	.14	.14
7.61		7.81			
~~7.53~~	r 2 b	~~7.79~~			

B 20229

8.23		8.33	8.61 = 8.47		
✓ ~~8.15~~	c 1 r	~~8.25~~	~~8.53 = 8.39~~	.14	.14
8.61		8.71			
~~8.53~~	r 1 d	~~8.63~~			

B 19983

823		8.43	8.71	8.83 = 8.66		
✓ ~~8.15~~	c 2 r	~~8.33~~	~~8.63~~	~~8.75 = 8.58~~	.23	.05 .17
8.71		8.71				
~~8.63~~	r o d	~~8.63~~				
8.83		8.93				
~~8.75~~	r 1 e	~~8.85~~				

B 19102

10.39		10.59	10.69 = 10.64		
✓ ~~10.31~~	k e r	~~10.51~~	~~10.61 = 10.56~~	.05	.05
10.69		10.79			
~~10.61~~	r 1 l	~~10.71~~			

B 18849

9.63		9.73	10.01	10.29 = 10.01		
✓ ~~9.55~~	g 1 r	~~9.65~~	~~9.93~~	~~10.21 = 9.93~~	.28	.00 .28
10.01		10.01				
~~9.93~~	r o h	~~9.93~~				
~~10.29~~	r 1 k	10.39				
~~10.21~~		~~10.31~~				

B 18687

8.23		8.43	8.71	8.83 = 8.66		
✓ ~~8.15~~	c 2 r	~~8.33~~	~~8.63~~	~~8.75 = 8.58~~	.23	.05 .17
8.71		8.71				
~~8.63~~	r o d	~~8.63~~				
8.83		8.93				
~~8.75~~	r 1 e	~~8.85~~				

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1899phae.proj..711B

Oct. 26, 1899.

Columbia A.U.C 6135.

B 18 5-23

✓ 7.23 / ~~7.15~~ / 7.61 / ~~7.53~~ — a 2 r — ~~7.43~~ ~~7.61 = 7.52~~ / ~~7.80~~ ~~7.53 = 7.44~~ / 7.81 / ~~7.73~~ — .09 .09

B 1785-6

✓ 10.79 / ~~10.71~~ / 11.07 / ~~10.99~~ — l 1 r — 10.89 11.07 = 10.98 / ~~10.81~~ ~~10.99 = 10.90~~ / 11.17 / ~~11.09~~ — .09 .09

r 1 m m

B 17 90 2

✓ 10.79 / ~~10.71~~ — l = .1 — ~~2 10.81~~ < 10.89

r m.s

✓ B 1825-7

8.71 / ~~8.68~~ / 8.83 / ~~8.70~~ — d 1 r — 8.81 8.83 = 8.82 / ~~8.73~~ ~~8.79 = 8.74~~ / 8.93 / ~~8.85~~ — .01 .01

r 1 E

✓ B 1829

7.23 / ~~7.15~~ / 7.71 / ~~7.63~~ — a 2 r — 7.43 7.71 = 7.57 / ~~7.35~~ ~~7.63 = 7.49~~ / 7.81 / ~~7.73~~ — .14 .14

r 1 L

✓ B 1837 1

7.23 / ~~7.15~~ / 7.81 / ~~7.73~~ / 8.13 / ~~8.05~~ — a 2 r — 7.43 7.81 8.13 = 7.79 / ~~7.35~~ ~~7.73 8.05 = 7.71~~ / 7.81 / ~~7.73~~ / 8.23 / ~~8.15~~ — .36 .02 .34

r 0 L

r 1 C

✓ B 1838 Sp.

7.23 / ~~7.15~~ / 7.71 / ~~7.63~~ — a 2 r — 7.43 7.71 = 7.57 / ~~7.35~~ ~~7.63 = 7.49~~ / 7.81 / ~~7.73~~ — .14 .14

r 1 L

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1899phae.proj..711B

Oct. 26, 1899.

Columbia A.Y.C. 6/33

B 18441 Sfr.

✓ 7.23	a 2 r	7.43 7.71 = 7.57		
~~7.15~~		~~7.35 7.63 = 7.49~~ =	.14	.14
7.71	r 1 t.	7.81		
~~7.63~~		~~7.73~~		

B 18479

✓ 7.23	a 2 r	7.43 7.71 = 7.57		
~~7.15~~		~~7.35 7.68 = 7.49~~	.14	.14
7.71	r 1 t	7.81		
~~7.63~~		~~7.73~~		

B 18503

7.23	a 1 r	7.33 7.81 8.13 = 7.76		
~~7.15~~		~~7.25 7.73 8.05 = 7.68~~	.43	.05 .37
✓ 7.81	r 0 t	7.81		
~~7.73~~		~~7.73~~		
8.13	r 1 c	8.23		
~~8.05~~		~~8.15~~		

B 17891

✓ 11.17	m 1 r	11.27 11.42 = 11.34		
~~11.09~~		~~11.19 11.34 = 11.26~~	.07	.08
11.42	r 1 m	11.52		
~~11.34~~		~~11.44~~		

B 17742

✓ 11.52	m 1 r	11.62 11.92 = 11.77		
~~11.44~~		~~11.54 11.84 = 11.69~~	.13	.13
11.92	r + 0	12.02		
~~11.84~~		~~11.94~~		

B 17674

✓ 11.52	m 1 r	11.62 11.92 = 11.77		
~~11.44~~		~~11.54 11.84 = 11.69~~	.13	.13
~~11.92~~	r 1 0	12.02		
~~11.84~~		~~11.94~~		

B 17607

11.17	m 1 r	11.27 11.52 11.92 = 11.57		
✓ ~~11.09~~		~~11.19 11.44 11.84 = 11.49~~	.08	.08 .33
11.52	r 0 m	11.52		
~~11.44~~		~~11.44~~		
11.92	r 1 0	12.02		
~~11.84~~		~~11.94~~		
11.17	m 2 r	11.37 11.42 = 11.40	.03	.02
11.42	r 1 m	11.52		

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1899phae.proj.7118

Oct. 26, 1899.

Columbia A.G.C. 6135

B15-665

8.93 — e 1 r — 9.03 9.28 9.53 = 9.28
~~8.85~~ — ~~8.90~~ ~~9.20~~ ~~9.40 = 9.20~~ .25 00 .25
✓ 9.28 — r 0 f — ~~9.20~~
~~9.20~~ — 9.63
9.63 — r 1 g — ~~9.53~~
~~9.45~~

B 16840

8.23 — c 1 r — 8.33 8.61 = 8.47
✓ ~~8.15~~ — ~~8.33~~ ~~8.53 = 8.39~~ .14 .14
8.61 — r 1 d — 8.71
~~8.53~~ — ~~8.63~~

B 16999

7.81 — h 1 r — 7.91 8.23 8.51 = 8.22
✓ ~~7.73~~ — ~~7.83~~ ~~8.15~~ ~~8.43 = 8.14~~ .31 .01 .29
8.23 — r 0 e — 8.23
~~8.15~~ — ~~8.10~~
8.51 — r 2 d — 8.71
~~8.43~~ — ~~8.63~~

B 17262 Var.

8.93 — e 1 r — 9.03 9.28 9.43 = 9.25
✓ ~~8.85~~ — ~~8.95~~ ~~9.20~~ ~~9.35 = 9.17~~ 22 .03 .18
9.28 — r 0 f — 9.28
~~9.20~~ — ~~9.20~~
9.43 — r 2 g — 9.63
~~9.33~~ — ~~9.53~~

B 17352

9.63 — g 1 r — 9.73 10.01 10.29 = 10.01
✓ ~~9.55~~ — ~~9.65~~ 9.93 10.21 = 9.93 .28 .00 .28
10.01 — r 0 h — 10.01
~~9.93~~ — ~~9.93~~
10.29 — r 1 k — 10.39
~~10.21~~ — ~~10.31~~

✓ B 17478

10.79 — k 1 r — 10.89 11.07 = 10.98
~~10.71~~ — ~~10.81~~ ~~10.99 = 10.90~~ .09 .09
11.07 — r 1 m — 11.17
~~10.99~~ — ~~11.09~~

✓ B 17540

10.79 — l 1 r — 10.89 10.97 = 10.93
~~10.71~~ — ~~10.81~~ ~~10.89 = 10.85~~ .04 .04
10.97 — r 2 m — 11.17
~~10.89~~ — ~~11.09~~

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1899phae.proj..711B

Oct. 26, 1899.

Columba A.G.C. 6135.

B22285 (on edge of plate)

✓ 7.81
~~7.73~~ $t = 2$ ~~< 7.93~~ < 8.01
r n.s

B22203

✓ 7.81 t 2 r 8.01 8.13 = 8.07
~~7.93~~ ~~8.05~~ = 7.99 .06 .06
~~8.13~~ 8.23
~~8.05~~ r 1 c ~~8.15~~

B22122

✓ 8.71 d 2 r 8.91 8.83 = 8.87
~~8.63~~ ~~8.75~~ = ~~8.79~~ .04 .04
8.83 8.93
~~8.75~~ r 1 e ~~8.85~~

B20988

✓ 10.79 d 1 r 10.89 10.97 = 10.93
~~10.71~~ ~~10.81~~ ~~10.89~~ = ~~10.85~~ .04 .04
10.97 11.17
~~10.89~~ r 2 m ~~11.09~~

B20742

✓ 8.23 $c = .3$ ~~< 8.45~~ < 8.53
~~8.15~~ r n.s

B20909 Nps.

✓ 8.71 8.81 8.83 = 8.82
~~8.63~~ d 1 r ~~8.73~~ ~~8.75~~ = ~~8.74~~ .01 .01
8.83 8.93
~~8.75~~ r 1 e ~~8.85~~

B22365

✓ 8.23 8.43 8.51 = 8.47
~~8.15~~ c 2 r ~~8.05~~ ~~8.43~~ = ~~8.39~~ .04 .04
8.51 8.71
~~8.43~~ r 2 d ~~8.63~~

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1899phae.proj..711B

Oct. 28 1899.

Gillis 3092

h 3 19.0-69.2 (1875)

R17701

8.52 h 1 r 8.62 8.87 = 8.74 .12 .14
8.87 r 2 c 9.07

R22125

8.52 h 2 r 8.72 8.97 = 8.84 .12 .13
8.97 r 1 c 9.07

R20234

8.52 h 1 r 8.62 8.77 = 8.70 .08 .07
8.77 r 3 c 9.07

R22351

8.52 h 2 r 8.72 8.97 = 8.84 .12 .13
8.97 r 1 c 9.07

R22248

8.52 h 1 r 8.62 8.97 = 8.80 .18 .17
8.97 r 1 c 9.07

R20961

8.52 h 1 r 8.62 8.87 = 8.74 .12 .14
8.87 r 2 c 9.07

R20959

8.52 h 1 r 8.62 8.97 = 8.80 .18 .17
8.97 r 1 c 9.07

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1899phae.proj..711B

Oct. 28, 1899.

B 20849

✓ 8.52 f 1 r 8.62 8.97 = 8.80 .18 .17
8.97 r 1 C 9.07

B 20846

✓ 8.52 f 1 r 8.62 8.97 = 8.80 .18 .17
8.97 r 1 C 9.07

A 2960

✓ 8.52 f 2 r 8.72 8.97 = 8.84 .12 .13
8.97 r 1 C 9.07

A 2969

✓ 9.07 e 1 r 9.17 9.42 = 9.30 .13 .12
9.42 r 1 d 9.52

A 3428

✓ 8.52 f 2 r 8.72 8.87 = 8.80 .08 .07
8.87 r 2 C 9.07

B 7181

✓ 8.52 f 1 r 8.62 8.87 = 8.74 .12 .13
8.87 r 2 C 9.07

✓ B 9062

8.52 f 2 r 8.72
e n s

A 2896

9.94 a 2 r 8.14 8.42 = 8.28 .14 .14
8.42 r 1 f 8.52

B 10208

8.52 f 2 r 8.72 8.87 = 8.80 .08 .07
8.87 r 2 C 9.07

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1899phae.proj..711B

Oct. 28, 1899.

R Columbae

C.H.C.M. -29° 25' 38 9.3 s 46.7 - 29 12 (1900)
Comp. stab. in hole on 18.8354

L 16084

✓	9.89	d 2 r	9.59	9.87 =	9.73	.14	.14
	9.87	r 2 E	10.07				

B 17674

✓	8.87	c 4 r	9.27	9.09 =	9.18	.09	.09
	9.09	r 3 d	9.89				

L 16246

✓	9.89	d 2 r	9.59	9.97 =	9.78	.19	.19
	9.97	r 1 E	10.07				

B 17609

	8.87	c 2 r	9.07	9.89	9.87 =	9.44	.87	.05 .43
✓	9.89	r 0 d	9.89					
	9.87	r 2 E	10.07					

B 17520

✓	8.87	c 2 r	9.07	9.29 =	9.18	.11	.11
	9.29	r 1 d	9.89				

B 17380

✓	9.89	d 2 r	9.59	9.97 =	9.78	.19	.19
	9.97	r 1 E	10.07				

B 17901

✓	9.89	d 4 r	9.79	10.07 =	9.93	.14	.14
	10.07	r 0 E	10.07				

7 m.s

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1899phae.proj..711B

Oct. 28 1899

C. C. M. -29° 35 38

B 17862

✓ 9.89 d 3 r 9.69 10.07 10.32 = 10.03 .34 .04 .29
✓ 10.07 r 0 ε 10.07
10.32 r 2 f 10.52

B 18188

✓ 11.60 h = .1 ~~= 10.82~~ 4 11.70
✓ ~~10.52~~ r m

B 18622

✓ 11.60 h 2 r 11.80 12.08 = 11.94 14 14
12.08 r 1 ℓ 12.18

B 17748

9.89 d 2 r 9.59 10.07 10.32 = 9.99 .40 .08 .83
✓ 10.07 r 0 ε 10.07
10.32 r 2 f 10.52

ℓ 17513

✓ 11.60 h = .1 2 11.70
r m.s

B 14843

9.89 d 1 r 9.49 9.87 = 9.68 .19 .19
9.87 r 2 ε 10.07

✓ ℓ 18980

11.60 h = 1 2 11.70
r m.s

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1899phae.proj..711B

Oct. 28, 1899.

C.H.Q.M. – 29° 25⁻ 38 9.3

B 17h 5⁻ 5⁻ 7 Sp.

9.39
✓ ~~8.84~~ d = 2' ~~<9.47~~ <9.49
r m.s

B 18h 0⁻ 5⁻

✓ 11.60 h = .2 <11.80
r m.s

B 18h 4⁻

✓ 11.60 h 2r <11.70
l 4?

l 17h 0⁻ 7

✓ 11.02 g = .1 <11.12
r m.s

B 18h 25⁻

✓ 11.60 h = .1 < 11.70
r m.s

l 16h 7⁻ 7⁻

✓ 10.52 l 2r 10.72 10.82 = 10.77 .05⁻ .05⁻
10.82 r 2g 11.02

B 18h 14⁻ 7

✓ 10.87 ~~11.02~~ 10.42 ~~11.40~~ l 3r 10.37 10.42 = 10.40 03 02 ~~11.12 11.40 = 11.26 .14 .14~~
r 1 l 10.52 ~~11.60~~

B 17h 9⁻ 1

✓ 10.07 ~~11.02~~ 10.22 ~~11.40~~ l 2r 10.27 10.22 = 10.24 03 02 ~~11.22 11.40 = 11.31 .09 .09~~
r 3 l 10.52 ~~11.60~~

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1899phae.proj..711B

Oct. 28, 1899.

C.R.M. -29° 25' 38 9.3

L 195-07

✓ 10.52 f = .1 < 10.62

r m.s

L 1962 8-

✓ 11.02 g 3 r 11.32 11.60 = 11.46 .14 .14

11.60 r 0 h 11.60

h m.s

L 19892

✓ 11.02 g = .1 < 11.12

r m.s

B 19103

✓ 11.60 h = .1 < 11.70

r m.s

B 20030

✓ 8.87 C 1 r 8.97 9.29 = 9.13 .16 .16

9.29 r 1 d 9.39

L 18833

✓ 8.87 C 2 r 9.07 9.39 9.97 = 9.48 .41 .09 .49

9.39 r 0 d 9.39

9.97 r 1 E 10.07

B 20387

✓ 8.87 C 2 r 9.07 9.39 9.87 = 9.44 .37 .05 .43

9.39 r 0 d 9.39

9.87 r 2 E 10.07

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1899phae.proj..711B

Oct. 28 1899.

C.R.D. − 29° 25 38 9.3

l 19188

✓ 8.82 h = .9 < 8.62

r m.s

✓ B 18736

11.60 h = .1 < 11.70

r m.s

B i5063

8.87 c 2 r 9.07 9.39 9.87 = 9.44 .37 .08 .13

9.39 r o d 9.39

9.87 r 2 E 10.07

B i5-107

8.87 c 2 r 9.07 9.29 = 9.18 .11 .11

9.29 r 1 d 9.39

B i5-196

8.87 c 3 r 9.17 ~~9.39~~ 9.87 = 9.48 .31 .09 .39.

9.39 r o d 9.39

9.87 r 2 E 10.07

B i5-838

✓ 11.02 ~~10.82~~ g 3 r ~~< 10.72~~ 11.32 11.50 = 11.41 09 09

11.50 r 1 h. 11.60

l 14425

✓ 10.07 ~~8.87~~ g = 3 ~~< 9.17~~ < 10.37

r m.s

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1899phae.proj..711B

Oct. 28, 1899.

C. R. M. - 29° 25' 38 9.3

B 13-380

V 11.02 g = .2 < 11.32
rms

B 13-491

V 11.02 g = .2 < 11.22
rms

B 13-534

V 12.18 k = .2 < 12.38
rms

B 13-717

V 11.02 g = .2 < 11.32
rms

B 16842

V 11.60 k = 1 < 11.70
rms

B 17 001

V 11.60 k = 2 < 11.80
rms

B 17 164

✓ 11.60 k 1 r 11.70
k rms

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1899phae.proj..711B

Oct 30 1899

R Columnae

B 20992.

✓ 11.02 g 2 r 11.92 11.50 = 11.41 .09 .09
11.50 r 1 h 11.60

B 20928

✓ 11.02 g = .2 < 11.22
r n.s

B 20905

✓ 11.02 g 2 r 11.22
h n.s

B 20631

✓ 10.52 f 1 r 10.62 10.92 = 10.77 .18 .15
10.92 r 1 g 11.02

B 21115

✓ 12.18 k = .1 < 12.28
r n.s

✓ l 20132

9.39 d = .9 < 9.69
r n.s

✓ l 2025-6

10.52 f = .2 < 10.72
r n.s

✓ l 20341

11.02 g = .1 < 11.12
r n.s

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1899phae.proj..711B

Oct. 20, 1899.

R Columbae

B 22289

✓ 11.60 h=.1 <11.70

r m s

B 22253

✓ 12.18 k=.1 <12.28

r m s

✓ B 22203

11.02 g=.2 <11.22

r m s

B 21951

✓ 11.60 h 2 r 11.80 11.98 = 11.89 .09 .09

11.98 r 2 k 12.18

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1899phae.proj..711B

November 3, 1899

Variable Star in R Orionis (No. 1)

6h 0m.0 −86° 30′ (1900)

Comps. Nos. marked on B 6784 + B 14418

B 6784

9.57 k 1 r 9.67 9.75 = 9.71 .04 .04
9.75 r 1 l 9.85

B 20029

v 10.60 m 1 r 10.70 10.92 = 10.81 11 11
10.92 r 1 0 11.02

B 14418

v 11.47 p = .1 < 11.57
r m.s

B 19800

v 9.85 l 1 r 9.95 10.10 = 10.02 .07 .08
10.10 r 1 m 10.20

B 20160

v 9.85 l = .1 < 9.95
r m.s

B 18127 11.59 q 1 Sp 11.67 Sp

v 11.02 02 r 11.22 11.37 = 11.30 .08 .07
11.37 r Reject. 11.47

B 18111

v 10.20 m = .1 < 10.30
r m.s

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1899phae.proj..711B

Nov. 3, 1899.

R Aclamus

B 18104

9.85 — C =.2 <10.05
r m.s

B 18043

11.47 fr =.1 <11.57
r m.s

B 18211

11.02 O =.1 <11.12
r m.s

B 18248

11.47 fr 1 r 11.57 11.37 = 11.47 .10 .10
11.37 r 2 g 11.57

B 18310

11.02 σ 2 r 11.22 11.47 = 11.34 12 .13
11.47 r 0 fr 11.47

B18148

11.95 r 2 r 11.95 11.78=11.86
11.78 r 1 r 11.88 09 08

B 18416

10.20 mr =.2 <10.40
r m.s

B 18623

9.57 fr 1 r 9.67 9.85 — 10.10 = 9.87 .20 .02 .23
9.85 — r 0 l 9.85 —
10.10 r 1 mr 10.20

B 18689

9.57 fr 1 r 9.67 9.65 — = 9.66 .01 .01
9.65 — r 2 l 9.85 —

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1899phae.proj..711B

November 3, 1899.

R Orionis

B18699

v	8.60	f 1 r	8.70	8.80 = 8.70 .00 .00	
	8.80	r 1 g	8.90		

B18762

v	8.25	e 2 r	8.40	8.50 = 8.48 .03 .02	
	8.50	r 1 f	8.60		

B18856

v	8.60	f 1 r	8.70	8.90 9.10 = 8.92 .02 .02 .23	
	8.90	r 0 g	8.90	8.60 f 2 r 8.80 8.80 = 8.80	
	9.15	r 1 h	9.25	8.80 g 1 g 8.90 .00 .00	

B18928

v	8.60	f 1 r	8.70	8.80 = 8.70 .00 .00	
	8.80	r 1 g	8.90	7.85 d 2 r 8.05 8.15 = 8.10	
				8.15 g 1 e 8.25 .05 .05	

B18954

v	8.90	g 1 r	9.00	9.10 = 9.08 .08 .07	
	9.15	r 1 h	9.25		

B19701

v	8.25	e 2 r	8.40	8.50 = 8.48 .03 .02	
	8.50	r 1 f	8.60		

B19845

v	9.85	e = 2	< 10.00		

r = 11.5

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1899phae.proj..711B

Nov. 3, 1899.

R. Adams

B11004

10.20
✓ ~~10.20~~ m 2 r ~~< 10.30~~ 10.40 10.40 = 10.40 .00 .00
10.40 r 2 m 10.60

B20000

✓ 10.20 m = 2 < 10.40
r n.s

B19798

✓ 9.85 ~~9.87~~ k 2 r 10.05 10. .02 .03 .02
10.00 r 2 m 10.20 ~~9.77~~ 10.00 = ~~9.88~~ .11 .12

B19626

✓ 9.85 l 1 r 9.95 10.00 = 9.98 .03 .02
10.00 r 2 m 10.20

B19568

✓ 9.57 k 1 r 9.67 9.63 = 9.66 .01 .01
9.63 r 2 l 9.85

B19446

9.23 h 1 r 9.30 9.37 9.60 = 9.32 .17 .03 .13
✓ 9.57 r 0 k 9.57
9.63 r 2 l 9.85

B19409

✓ 9.57 k 1 r 9.67 9.63 = 9.66 .01 .01
9.63 r 2 l 9.85

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1899phae.proj..711B

Nov. 9, 1899.

R Octans

B 19408

v	9.25	h 2 r	9.45	9.37	= 9.41	.04	.04
	9.37	r 2 k	9.57				

B 19400

	9.25	h 1 r	9.35	9.57	9.65	= 9.52	.17	.05	.13
v	9.57	r 0 k	9.57						
	9.65	r 2 l	9.85						

B 19300

v	9.25	h 2 r	9.45	9.47	= 9.46	.01	.01
	9.47	r 1 k	9.57				

B 19174

v	8.60	f 1 r	8.70
		g n.s	

B 19107

	8.90	g 4 r	9.30	9.25	9.47	= 9.34	.24	.01	.23
v	9.25	r 0 h	9.25						
	9.47	r 1 k	9.57						

B 19089

v	9.57	h 1 r	9.67	9.70	= 9.71	.04	.04
	9.70	r 1 l	9.85				

B 15108

v	11.02	0 1 r	11.12	11.27	= 11.20	.08	.07
	11.27	r 2 p	11.47				

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1899phae.proj..711B

Nov. 4, 1899

R Cetani

B8006
✓ 9.25 h = .1 ∴ 9.30
rms

B8009
✓ 11.02 0 = 1 < 11.12
rms

✓ B8147
Poor plate

✓ B8148
Poor plate

B8150 Spr.
✓ 8.60 f = .1 < 8.70
rms

B8151 Spr
✓ 8.90 g = 1 < 9.00
rms

✓ B8153 Spr.
Near edge of plate.

✓ B8154
Near edge of plate.

✓ B8155 Spr.
Near edge of plate

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1899phae.proj..711B

Nov. 4, 1899.

R Orionis.

B8105-9 Sp.

✓ 8.90 g=.1 <9.00

r~m.s

B11010 Sp.

✓ 9.25 h=.1 <9.35

r~m.s

✓ B11705-1 Sp.

Near edge of plate.

B11705-2 Sp.

✓ 9.25 h=.1 <9.35

r~m.s

✓ B11845

10.20 m=.1 <10.30

r~m.s

B9871

✓ 11.47 p=.1 <11.57

r~m.s

B9611

✓ 11.47 p=.2 <11.67

r~m.s

B9505-90

✓ r=1 11.88 11.75 & 0 .. 11.75

r=1?

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1899phae.proj..711B

Nov. 4, 1899.

R Ceti

B9449

✓ 11.47 pv = 1 < 11.57

r m.s

B9348

✓ 11.47 pv 2r 11.77 11.37 = 11.57 .20 .20

11.37 r 2q 11.57

B9327

✓ 9.57 p = .2 < 9.77

r m.s

B12541

✓ 9.85 l 2r 10.05 10.10 = 10.08 .03 .02

10.10 r 1 mv 10.20

B12329

✓ 10.20 l 2r 10.40 10.40 = 10.40 00 00

10.40 r 2 mv 10.60

B12183

✓ 10.60 m = .1 < 10.70

r m.s

B12163

✓ 10.20 mv = .2 < 10.40

r m.s

✓ B12012 Spv.

Poor plate

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1899phae.proj..711B

Nov. 4, 1899

R Aurigæ

B 11982

v 11.47 ~~p=9 <11.57~~
11.47 ~~o n.s~~ p 2 r 11.67

B 11981

v 11.02 o=.1 <11.12
r n.s

B 15-5-37

v 8.25 e 2 r 8.40 8.50 = 8.48 .03 .02
8.50 r 1 f 8.60

B 15-5-49

v 8.60 f=.1 <8.70
r n.s

B 15-5-72

v 8.60 f 2 r 8.80 8.90 9.05 = 8.92 .12 .02 .13
8.90 r o g 8.90
9.05 r 2 h 9.25

B 12800

v 7.57 e 1 r 7.67 7.65 = 7.66 .01 .01
7.65 r 2 d 7.85

B 12909

v 7.57 h 2 r 9.77 9.75 = 9.76 .01 .01
9.75 r 1 l 9.85

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1999phae.proj..711B

Nov. 4, 1899.

R Cetani.

B 12992

✓ 9.85 — 2 r — 10.05 — 10.10 = 10.08 .03 .02

10.10 — 1 m — 10.20

B 13495 5 fr

✓ 10.20 — m = .1 — 10.30

r m.s

B 14489

✓ 11.47 — fr = .1 — 11.37

r m.s

✓ B 14861

Near edge of plate.

B 14862

✓ 11.47 — fr = .1 — 11.37

r m.s

B 14905

✓ 11.02 — 02 r — 11.22 — 11.47 = 11.34 .12 .13

11.47 — r 0 fr — 11.47

B 15031

✓ 11.02 — 01 r — 11.12 — 11.47 = 11.30 .18 .17

11.47 — r 0 fr — 11.47

B 15039

✓ 11.47 .02 — 0 = .2 — 11.37 .22

r m.s

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1899phae.proj..711B

Nov. 4, 1899.

R Eridani

B 10-118

v 11.02 — 0 1 r — 11.12 — 11.37 = 11.24 .12 .13
11.37 — r 1 fp — 11.47

B 10-140 sfp.

v 10.20 — m = .1 — < 10.30
r m.s

B 10-146 sfp.

v 10.20 — m = .1 — < 10.30
r m.s

B 10-161

v 9.57 — k = .1 — < 9.67
r m.s

v B 10-616 sfp.
Near edge of plate.

B 10-910

v 9.57 — k 2 r — 9.77 — 9.75 = 9.76 .01 .01
9.75 — r 1 l — 9.85

B 10-976

v 9.85 — l 1 r — 9.95 — 10.00 = 9.98 .03 .02
10.00 — r 2 m — 10.20

B 16098

v 9.85 — l 1 r — 9.95 — 10.00 = 9.98 .03 .02
10.00 — r 2 m — 10.20

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1899phae.proj..7118

Nov. 4, 1899.

R Aslans

R 16039

✓ 9.85⁻ C 1 r 9.95⁻ 10.10 = 10.02 .07 .08
10.10 r 1 m 10.20

R 16103

✓ 9.87 k = .2 < 9.77
r m.s

R 15⁻164 Spr.

✓ 10.30 m = .1 < 10.30
r m.s

R 15⁻173 Spr.

✓ 9.87 k = .1 < 9.67
r m.s

R 15⁻201

✓ 9.85⁻ C 1 r 9.95⁻ 10.00 = 9.98 .03 .02
10.00 r 2 m 10.20

R 15⁻999

✓ 7.87 e 2 r 7.77 7.75⁻ = 7.76 .01 .01
7.75⁻ r 1 d 7.85⁻

R 15⁻981

✓ 7.87 e 2 r 7.77 7. 7.89 12 04 16
7.85⁻ r 0 d 7.85⁻ 8.05⁻ = ~~8.20~~ .45⁻ .63 .17
8.05⁻ r 2 e 8.25⁻

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1899phae.proj..711B

Nov. 4, 1899.

R Aclans

B 15-412

v	7.57	e 2 r	7.77	7.75 =	7.76	.01	.01
	7.75	r 1 d	7.85				

B 15-413

v	7.57	e 2 r	7.77	7.85	8.15 =	7.92	.18	.07 .23
	7.85	r 0 d	7.85					
	8.15	r 1 e	8.25					

B 15-492

v	8.25	e 2 r	8.45	8.40 =	8.42	.03	.02
	8.40	r 2 f	8.60				

Nov. 6, 1899.

B 8163 Spr.

v	8.90	g = .1	< 9.00	
		r m.s		

B 8166 Spr.

v	8.90	g = .1	< 9.00	
		r m.s		

v B 8167 Spr.

Too near edge of plate

B 8169 Spr.

v	8.90	g = .1	< 9.00	
		r m.s		

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1899phae.proj..711B

Nov. 6, 1899.

R Orionis.

B8170 S/v
v 9.25 h = .1 < 9.35
r m.s

B7991 S/v.
v 9.57 h = .1 < 9.67
r m.s

v B8187 S/v.
Poor plate

B8186 S/v.
v 9.57 h = .1 < 9.67
r m.s

B8184 S/v.
v 9.57 h = .1 < 9.67
r m.s

B8189 S/v.
v 8.25 e = 2 < 8.45
r m.s

B8182 S/v.
v 8.90 g = .1 < 9.00
r m.s

B 9108
v 8.60 f = .1 < 8.70
r m.s

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1899phae.proj..711B

Nov. 6, 1899.

R. Aitken.

B8161 Sp.

v 8.90 g = .1 < 9.00
rms

B8162 Sp.

v 9.57 k = .1 < 9.67
rms

B8163

v 8.60 f = .1 < 8.70
rms

v B16248

10.20 mm 1 r 10.30 10.40 = 10.38 .05 .05
10.40 r 2 m 10.60

v B16373

10.20 m 1 r 10.30 10.50 = 10.40 .10 .10
10.50 r 1 m 10.60

B16670

v 11.02 0 1 r 11.12 11.17 = 11.14 .02 .03
11.17 r 3 p 11.47

B16798

v 10.60 m 2 r 10.80 8.82 = 10.81 .01 .01
10.82 r 2 0 11.02

v B16829

9.85 l = .1 < 9.95
rms

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1899phae.proj..711B

Nov. 6, 1899.

R Ceti.

B16927

8.90 g =.2 < 9.10

σ m.s

B17002

11.02 0 =.1 < 11.12

σ m.s

B17121

10.62° m =.1 < 10.72° 11.02 01 σ 11.12 11.37 - 11.24

σ m.s 11.37 σ 1 f 11.47 12 13

B17301

11.47 f =.1 < 11.57

σ m.s

B17308

02 22

11.77 σ 2σ 11.67 11.37 - 11.30 .08 .07

11.37 σ 1 f 11.47

B17380

10.20 m =.1 < 10.30

σ m.s

B17387

10.60 m =.1 < 10.70

σ m.s

B17393 S f.

9.25 h =.1 < 9.35

σ m.s

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1899phae.proj..711B

Nov. 6, 1899

R Ocłans

B 17610.

v 11.02 0 = .1 < 11.12
rms

B 17743

v 11.47 p = .2 < 11.67
rms

B 17953-4

v 11.02 0 = .1 < 11.12
rms

B 8172 Sp.

v 8.25 ε = .1 < 8.35
rms

B 8308

v 9.85 l = .1 < 9.95
rms

B 9069

v 10.60 n = .1 < 10.70
rms

B 9089

v 11.02 0 = .1 < 11.12
rms

v B 9095
Poor plate . . .

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1899phae.proj..711B

Nov. 6, 1899.

R Orionis

Bg100

v 10.60 m = .1 < 10.70

r m.s

Bg101

v 10.20 m = .1 < 10.30

r m.s

Bg102

v 10.20 m = .2 < 10.40

r m.s

Bg109

v 10.60 m = .1 < 10.70

r m.s

Bg136

v 11.02 o = .1 < 11.12

r m.s

Bg103

v 11.02 o = .1 < 11.12

r m.s

Bg209

v 11.02 o = .1 < 11.12

r m.s

Bg231

v 11.02 o = .1 < 11.12

r m.s

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1899phae.proj..711B

Nov. 6, 1899.

R Celan

B9246

v 11.47 fr = .1 < 11.57
r m.s

B9285

v 11.02 0 = 1 < 11.12
r m.s

B9325

v 11.47 fr = .1 < 11.57
r m.s

v B8485
Poor plate

v B8309

10.60 m = 1 < 10.70
r m.s

v B8221

10.60 m = .1 < 10.70
r m.s

v B8200

9.25 h = .1 < 9.35
r m.s

v B8149 Sp.
Poor plate

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1899phae.proj..711B

Nov. 6, 1899.

R Orionis

B 8188 Sp.

✓ 8.90 g = .1 < 9.00
r m s

B 9123

✓ .57 .77
11.74 q 2 r 11.67 11.63 = 11.71 .06 .06
11.63 r 1 N 11.73

B 9121

✓ 10.20 m = .1 < 10.30
r m s

B 9119

✓ 10.20 m = .1 < 10.30
r m s

B 9112

✓ 11.02 o = .1 < 11.12
r m s

B 9111

✓ 8.90 g = .1 < 9.00
r m s

B 8195 Sp.

✓ 8.90 g = .1 < 9.00
r m s

B 8181

✓ 7.85 d = .1 < 7.95
r m s

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1899phae.proj.7118

Nov. 6, 1899.

R Ceti

B 8131 Sp.

✓ 8.60 f = .1 < 8.70

r n s

✓ B 8129 Sp.

Near edge of plate

Nov. 9, 1899.

B 23688

7.57	c 2 r	7.77	7.85	8.15	=	7.92	.15	.07 .23
✓ 7.85	r o d	7.85						
8.15	r 1 e	8.25						

B 23749

✓ 7.57	c 2 r	7.77	7 8.85	8.15	=	7.92	.15	.07 .23
7.85	r o d	7.85						
8.15	r 1 e	8.25						

B 23242

✓ 7.57	c 2 r	7.77	7.75	=	7.76	.01	.01
7.75	r 1 d	7.85					

B 23618

✓ 7.57	c 1 r	7.67	7.75	=	7.71	.04	.04
7.75	r 1 d	7.85					

B 23233

✓ 7.22	f 2 r	7.42	7.47	=	7.44	.02	.03
7.47	r 1 e	7.57					

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1899phae.proj..711B

Nov. 9, 1899.

R Celāno

B23034

✓ 7.8:5⁻ d 1 r 7.9:0⁻ 8.1:8= 8.0:5⁻ .10 .10
8.1:5⁻ r 1 2 8.2:5⁻

R21435⁻

✓ 8.9:0 g 1 r 9.0:0 9.1:8= 9.0:8 .08 .07
9.1:5⁻ r 1 h 9.2:5⁻

R22345⁻

✓ 11.0:2 0 =.1 <11.1:2
r n,S

R22407

✓ 10.6:0 m 1 r 10.7:0 10.9:2= 10.8:1 .11 .11
10.9:2 r 1 0 11.0:2

R22405⁻2

✓ 10.2:0 m 1 r 10.3:0 10.5⁻0= 10.4:0 .10 .10
10.5⁻0 r 1 m 10.6:0

✓ R.22882

(Too near edge of pl.

R22867

✓ 9.2:5⁻ h 2 r 9.4:5⁻ 9.5⁻7 9.7:5= 9.5⁻9 .14 .02 .16
9.5⁻7 r o h 9.5⁻7
9.7:5⁻ r 1 L 9.8:5⁻

R22846

✓ 9.8⁻7 k 2 r 9.7.7 9.7:5=9.7:6 .01 .01
9.7:5⁻ r 1 L 9.8:5⁻

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1899phae.proj.711B

Nov. 9, 1899

R Octans

B 22947

✓ 8.90 g 1 r 9.00 9.05 = 9.02 .02 .03
9.05 r 2 h 9.25

✓ B 22319

11.47 p = .1 < 11.57
r m.s

R 21113

✓ 11.02 0 2 r 11.22 11.37 = 11.30 .08 .07
11.37 r 1 p 11.47

B 22600

✓ 10.20 m 1 r 10.30 10.50 = 10.40 .10 .10
10.50 r 1 m 10.60

B 20280

✓ 11.02 0 = .1 < 11.12
r m.s

B 20632

✓ 11.47 p 1 r 11.57 11.37 = 11.47 .30 .30 10 10
11.37 r 2 q 11.57

✓ B 20946

11.47 p 1 r 11.57 11.47 = 11.52 .05 .05
11.47 r 1 q 11.57

B 21952

✓ 9.85 l 1 r 9.95 10.00 9.98 .03 .02
10.00 r 2 m 10.20

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1899phae.proj..711B

Nov. 9, 1899.

R Aclaims

B 20781

✓ 11.47 fu = 4 < 11.87
r m.s

B 20780

✓ 9.87 k 1 r 9.67 9.75 = 9.71 .04 .04
9.75 r 1 l 9.80

B 21431

✓ 8.90 g 1 r 9.00 9.05 = 9.02 .02 .03
9.05 r 2 h 9.20

B 21311

10.20
✓ ~~9.85~~ ~~l 2 m~~ ~~10.05~~ 10.30 10.40 = 10.35 05 05
10.40 r 2 m 10.60
~~r m.s~~

B 21014

✓ 11.47 fu = .2 < 11.67
r m.s

B 20969

✓ 11.47 fu = .1 < 11.87
r m.s

✓ B 21310
Just off edge of pl.

✓ B 20770
Just off edge of pl.

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1899phae.proj..7118

Nov. 9, 1899.

R Aslain

B21590

v 8.90 g 2 r g.10 g.10⁻ = g.1X .02 .03
9.10⁻ r 1 h g.20⁻

B21668

v 8.90 g 1 r g.00 g.10⁻ = g.08 .08 .07
9.10⁻ r 1 h g.20⁻

B21772

✓ g.20⁻ h 1 r g.30⁻ g.37 = g.36 .01 .01
g.37 r 2 k g.07

B21778

✓ g.20⁻ h 1 r g.30⁻ g.37 = g.36 .01 .01
g.37 r 2 k g.07

B21780

✓ g.20⁻ h 1 r g.30⁻ g.37 = g.36 .01 .01
g.37 r 2 k g.07

✓ B22168 S/μ.
g.80⁻ h = 2 < 10.05⁻
r m.s

✓ B22176
Too near edge of pl.

✓ B22105
11.47 μ 1 r 11.57 11.47 = 11.52 .05⁻ .05⁻
11.47 r 1 g 11.37

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1899phae.proj..711B

Nov. 9, 1899.

R Adams.

✓ B 22126

11.02 o = 1 2 11.12

r n.s

B 22067

✓ 11.02 o 2 r 11.22 11.27 = 11.24 .02 .03

11.27 r 2 p 11.47

B 22000

✓ 10.60 n 1 r 10.70 10.92 = 10.81 .11 .11

10.92 r 1 o 11.02

B 22764

✓ 9.88 2 1 r 9.95 9.90 = 9.92 .03 .02

9.90 r 3 m 10.20

B 21898

✓ 9.85 2 2 r 10.05 10.00 = 10.02 .03 .02

10.00 r 2 m 10.20

✓ B 22708

Just off edge of pl.

B 22656

✓ 9.85 2 1 r 9.95 10.00 = 9.98 .03 .02

10.00 r 2 m 10.20

B 22648

✓ 9.85 2 2 r 10.05 9.90 = 9.98 .07 .08

9.90 r 3 m 10.20

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1899phae.proj..711B

Nov. 9, 1899.

R Orionis.

B 225-89

✓ 9.85⁻ 9.90 — l 1 r — 9.95⁻ 9.90 = 9.92 .03 .02

9.90 — r 3 m — 10.20

B 226.6

✓ 9.85⁻ 10.00 — l 2 r — 10.05⁻ 10.00 = 10.02 .03 .02

r 2 m 10.20

B 225-81

✓ 9.85⁻ 10.00 — l 1 r — 9.95⁻ 10.00 = 9.98 .03 .02

r 2 m 10.20

B 225-80

✓ 9.85⁻ 10.00 — l 2 r — 10.05⁻ 10.00 = 10.02 .03 .02

r 2 m 10.20

B 225 79

✓ 9.85⁻ 10.10 — l 2 r — 10.05⁻ 10.10 = 10.08 .03 .02

r 1 m 10.20

Nov. 10, 1899.

✓ B 225-74 Spr.

9.85⁻ — l = 1 — < 9.95⁻

r m.s

✓ B 225-69 Spr.

Off film

✓ B 22238 Spr.

9.85⁻ — l = 1 — < 9.95⁻

r m.s

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1899phae.proj..711B

Nov. 10, 1899.

R Ceti

B 22 s-64 Sp.
✓ 9.s7 k = .1 < 9.67
r m.s

B 22 s-65 Sp.
✓ 9.25 h = .1 < 9.35
r m.s

B 22 s-66 Sp.
✓ 8.90 g = .1 < 9.00
r m.s

B 22 s-67 Sp.
✓ 8.60 f = .2 < 8.80
r m.s

✓ B 22 s-61 Sp.
Too near edge of pl.

B 22 s-62 Sp
✓ 9.85 l = .1 < 9.95
r m.s

B 22 s-63 Sp
✓ 8.90 g = .1 < 9.00
r m.s

✓ B 22 s-73 Sp.
8.90 g = .1 < 9.00
r m.s

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1899phae.proj..711B

Nov. 10, 1899.

R Coronæ

B 21717 Spr.

✓ 7.8δ⁻ d = 2 < 8.0δ⁻

r m s

B 21718 Spr.

✓ 8.2δ⁻ e = 1 < 8.8δ⁻

r m s

✓ B 2095-2 Spr.

Poor plate

B 225-78 Spr.

✓ 8.90 g 1 r 9.00 9.1δ⁻ = 9.08 08 .07

9.1δ⁻ r 1 h 9.2δ⁻

B 225-79δ⁻ Spr.

✓ 9.57 k = .1 < 9.67

r m s

✓ B 8178

Far near edge of plate.

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1899phae.proj..711B

Nov. 11. 1899.

Var. A.M. -8° 1467

Comp. stars marked on B 5-5-11

B 5-5-11

√9.40	c 1 r	9.50	9.50 = 9.50	00	00
9.50	r 2 d	9.70			

l 14320

√9.08	b 1 r	9.18	9.40 9.60 = 9.39	21	01 21
9.40	r 0 c	9.40			
9.60	r 1 d	9.70			

l 10892

9.40	c 1 r	9.50	9.70 9.90 = 9.70	.20	.00 .20
9.70	r 0 d	9.70			
9.90	r 1 e	10.00			

10323

9.40	c 2 r	9.60	9.60 = 9.60 =	00	00
9.60	r 1 d	9.70			

l 7845

√9.40	c 1 r	9.50	9.60 = 9.55	.00	.05
9.60	r 1 d	9.70			

l 16414 Sp.

√ 00 near edge of pl.

l 5483

9.70	d 1 r	9.80	9.90 = 9.85	.00	.05
9.90	r 1 e	10.00			

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1899phae.proj..711B

Nov. 11, 1899

H.D. -8° 1467

Q 20035

8.80	a 2 r	9.00	8.98 = 8.99 =	01	.01
8.98	r 1 b	9.08			

R 14888

9.08	b 2 r	9.28	9.30 = 9.29	.01	01
9.30	r 1 c	9.40			

R 15-25-3

9.08	b 1 r	9.18	9.30 = 9.24	.06	.06
9.30	r 1 c	9.40			

Q 10680

9.40	c 1 r	9.50	9.50 = 9.50	00	00
9.50	r 2 d	9.70			

Q 19992

9.70	d 1 r	9.80	9.90 = 9.85	.05	.05
9.90	r 1 e	10.00			

R 14761

9.40	c 2 r	9.60	9.60 = 9.60	00	00
9.60	r 1 d	9.70			

R 3010

9.40	c 1 r	9.50	9.60 = 9.55	.05	.05
9.60	r 1 d	9.70			

R 14848

9.40	c 2 r	9.60	9.50 = 9.55	.05	.05
9.50	r 2 d	9.70			

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1899phae.proj..711B

Nov. 11, 1899

HD. M-8° 1467

B17860

√9.40 C 1 r 9.50 9.60 = 9.55 .05 05
9.60 r 1 d 9.70

J B 20894 Sp.
Just off edge of pl.

B 2134 Sp.
9.√40 c = .2 ∠ 9.60
r m,s

B 1831 Sp.
✓ Too near edge of pl.

B 12491
9.√40 C 1 r 9.50 9.50 = 9.50 00 00
9.50 r 2 d 9.70

B 14863
√9.40 C 1 r 9.50 x 9.50 = 9.50 00 00
9.50 r 2 d 9.70

B 12409
√9.40 C 2 r 9.60 9.50 = 9.55 .05 05
9.50 r 2 d 9.70

L 2664
✓ Poor plate

L 1091
✓9.40 C 2 r 9.60 9.70 9.80 = 9.70 .10 00 .10
9.70 r 0 d 9.70
9.80 r 2 f 10.00

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1899phae.proj..711B

Nov. 11, 1899

H.D. -8° 1467

B 18141

✓9.40	c 2 r	9.60	9.60 = 9.60	oo oo
9.60	r 1 d	9.70		

✓ B 20931

9.40	c 2 r	9.60	9.60 = 9.60	oo oo
9.60	r 1 d	9.70		

✓ B 22369

9.40	c 1 r	9.50	9.60 = 9.55 .05	.05
9.60	r 1 d	9.70		

B 20594

✓ Broken, too badly to be reminded.

B 20895 Sp.

✓ Passed out of comparison region

✓ B 13672 Sp.

9.70	d = .1	< 9.80	
	r m s		

✓ 9841

9.70	d 1 r	9.80	9.90 = 9.85	.05 .05
9.90	r 1 c	10.00		

B 14926

✓9.40	c 1 r	9.50	9.50 = 9.50	oo oo
9.50	r 2 d	9.70		

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1899phae.proj..711B

Nov. 11, 1899.

A.M. -8° 1467

B 17682

9.√40	C 1 r	9.50	9.50 = 9.50	00 00
9.50	r 2 d	9.70		

l 9859

9.40	C 2 r	9.60	9.70 9.80 = 9.70	10 00 10
9.√70	r 0 d	9.70		
9.80	r 2 E	10.00		

B 3037

9.√08	f 2 r	9.28	9.30 = 9.29	.01 .01
9.30	r 1 C	9.40		

l 10303

9.√.40	C 2 r	9.60	9.60 = 9.60	00 00
9.60	r 1 d	9.70		

l 2834

√9.40	C 2 r	9.60	9.50 = 9.53	.03 .03
9.50	r 2 d	9.70		

l 14191

√10.00	E 1 r	10.10	10.13 = 10.12	.02 .03
10.13	r 1 f	10.23		

B 20634

√9.40	C 2 r	9.60	9.50 = 9.53	.03 .03
9.50	r 2 d	9.70		

l 16346

√ 9.40	C 2 r	9.60	9.60 = 9.60	00 00
9.60	r 1 d	9.70		

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1899phae.proj..711B

Nov. 11, 1899.

FOM -8°1467

Q616

9.70 d | r 9.80 9.80 = 9.80 00 00
9.80 r 2 E 10.00

B18410 - Sp.

8.V80 a = .1 < 8.90
r m.s

B12683 Sp.

9.V70 d = .1 < 9.80
r m.s

V B2063-1 Sp.

9.40 C | r 9.50 9.60 = 9.55 .00 .05
9.60 r | d 9.70

Q 1685 N

V9.70 d | r 9.80 9.80 = 9.80 00 00
9.80 r 2 E 10.00

B20581 Sp.

8.V80 a 2 r 9.00
t m.s

Q 462

V9.70 d | r 9.80 9.80 = 9.80 00 00
9.80 r 2 E 10.00

V B9043 Sp.

8.80 a = .1 < 8.90
r m.s

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1899phae.proj..711B

Nov. 11, 1899

DM −8° 1467

Q 1905

9.40 C 3 r 9.70 9.60 = 9.65 .05 .05
9.60 r 1 d 9.70

B 20635 Sp.

9.370 d = 1 < 9.80
r m.s

Q 2390 Sp.

10.00 E = .1 < 10.10
r m.s

B 10638 Sp.
✓ Poor plate

B 10767 Sp.
✓ Poor plate

✓ B 8997 Sp.
Poor plate

B 20416

✓9.40 C 2 r 9.60 9.50 = 9.55 .05 .05
9.50 r 2 d 9.70

Q 20803 Sp.

✓9.08 b 1 r 9.18 9.20 = 9.19 .01 .01
9.20 r 2 c 9.40

B 24149

✓ 9.70 d 1 r 9.80 9.90 = 9.85 .05 .05
9.90 r 1 e 10.00

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1899phae.proj..7118

Nov. 15 1899

R.M. -8 1467.

B 22415

9.40 c 2 r 9.60 9.50 = 9.50 .00 .00
9.50 r 2 d 9.70

I
R 23666

9.70 d 1 r 9.80 9.80 = 9.80 .00 .00
9.80 r 2 E 10.00

I
R 21401

9.40 c 2 r 9.60 9.60 = 9.60 .00 .00
9.60 r 1 d 9.70

B 21469

9.40 c 1 r 9.50 9.70 9.90 = 9.70 .20 .00 .20
9.70 r 0 d 9.70
9.90 r 1 E 10.00

B 22209

9.40 c 2 r 9.60 9.50 = 9.50 .00 .00
9.50 r 2 d 9.70

B 22 369

9.40 c 2 r 9.60 9.60 = 9.60 .00 .00
9.60 r 1 d 9.70

[illegible] 22287 Sp.

9.08 [illegible] 2 r 9.28 9.30 = 9.29 .01 .01
9.30 r 1 C 9.40

[illegible] 22301 Sp.

9.40 d 1 r 9.50 9.80 = 9.50 .30 .00
9.80 r 2 E 10.00

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1999phac.proj..711B

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