

KG
11365
941

XXIII

Comparison Stars.

H. S. L.

Correction to first scale.

I, B, and A. ^{ac, ma,} ~~M.~~ plates +0.2 Scale from I 32811
A plates, H, X, C -0.8 " " C 15350

When the star is measured on both scales, no correction if error does not exceed 0.1

^{Always}
If the error exceeds ^{0.1}, take the mean of the second reading and the corrected first reading. to hundredths of a magnitude.

Instructions changed March 12, 1908.
H.S.L.

AC and AM plates taken with usual aperture. scale from 8858

scale 1 correction - 0.3 scale 1 is very seldom used.
scale 2 " - 0.5
scale 3 " = 0.0 { ~~decrease~~ by 0.4 or ~~increase~~ by 0.4 to make

KG 11365, 947



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Comparison Stars.

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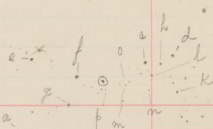
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Tuesday, October 16, 1906

31.45 High Measures to determine Brightness of Comparison Stars
for C.P.D. - 49° 5046 (Map of Day No. 36)
C.D.M. - 49° 6942

Plate B 23133

a	4.4	4.8	4.7
b	4.9	5.2	
c	5.3	5.3	5.4
d	5.6	5.6	5.7
e	5.8	5.9	
f	6.1	6.2	
g	6.2	6.4	
h	6.4	6.7	
k	6.8	7.1	
l		7.7	
m		8.2	
n		8.7	
r		9.2	
sp		9.7	
var	5.2	5.9	5.2



B 5356

a	4.9	5.0	
b	5.3	5.4	
c	5.7	5.8	
d	6.0	6.2	
e	6.2	6.5	
f	6.5	6.8	
g	6.8	7.2	7.1
h		7.4	
k		8.0	
l		8.4	
m		8.8	
n		9.2	
r		9.7	
sp		n.v.	
var	5.8	5.9	

21.56

A.2.8

Tuesday, October 16, 1906.

32.20

C.P.D. - 49° 5046

B 31603

a	5.0	5.0	5.1
b	5.3	5.5	
c	5.7	5.7	5.8
d	6.0	6.0	6.1
e	6.1	6.3	
f	6.2	6.6	
g	6.6	6.8	
h	6.7	7.0	
k		7.7	
l		8.1	
m		8.5	
n		9.1	
r		9.5	
sp		10.0	
var	5.4	5.6	

B 25660

a	4.1	4.1	4.2
b	4.6	4.7	
c	5.0	~~5.2~~	
d	5.2	5.6	5.5
e	5.6	5.8	
f	5.9	6.0	
g	6.2	6.3	
h	6.4	6.5	
k		7.1	
l		7.7	
m		8.3	
n		8.9	
r		9.4	
sp		n.v.	
var	5.0	5.2	

Images not easily
comparable with each.

A.2.8

Wednesday, October 17, 1906.

22.32 41295 Measures to determine Brightness of Comparison Stars
for C.P.M. - $49^{\circ} 47' 30''$ (Map of the Sky Vol. No. 14)
C.D.M. - $48^{\circ} 7' 57''$

Plate B 5356

a	4.7	4.8
b	5.2	5.4
c	5.6	5.7
d	6.0	6.0
e	6.4	6.5
f	6.8	7.0
g		7.4
h		7.8
var	5.6	5.7

Plate B 31603

a	4.0	4.2
b	4.8	4.9
c	5.0	5.1
d	5.5	5.5
e	5.9	5.9
f	6.1	6.2
g	6.3	6.7
h	6.6	7.0
var	6.0	6.3

22.32 A.D.H.

Wednesday, October 17, 1906.

22.32

C.P.M. - $48^{\circ} 7' 57''$

Scale measures.

B 25660

a	3.9	4.0
b	4.6	4.8
c	4.9	5.0
d	5.1	5.3
e	5.2	5.7
f	5.7	6.0
g	6.0	6.2
h	6.3	6.5
var	5.2	5.5

B 23123

a	4.2	4.2
b	4.8	4.9
c	5.0	5.1
d	5.3	5.3
e	5.5	5.5
f	5.9	6.0
g	6.2	6.3
h	6.6	6.7
var	4.1	4.2

Measures made with
difficultly

22.40

A.D.H.

Sec 44: 196

Tuesday, October 30, 1906.

0.0 H/263 Comparison Stars for Nova Antennae 10 58.50

Mag.	Cu. Shade	Plate B 27020	1st diff. Hr.	2nd diff. Hr.
9.12	9.15	a	4.2	0.0
9.15	9.13	b	4.9	0.85
9.10	9.09	c	5.8	1.70
8.99	8.94	d	6.1	2.15
8.82	e	6.4	2.40	
8.63	f	7.0	2.85	
8.40	g	7.7	3.50	
8.24	h	8.2	4.10	
8.26	i	8.5	4.30	
8.74	j	9.0	4.80	
8.50	m	9.2	5.00	
n	9.7	5.50		
o	10.0	6.00		
l	9.0	c		
m	9.2	d		
n	9.7	e		
o		f		
		g		
		h		
		i		
		j		
		k		
		l		
		m		
		n		
		o		
0.07	A. S. H.			

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Tuesday, October 30, 1906.

0.07 H/268 Comparison Stars for Nova Antennae 10 57.53

Mag.	Cu. Shade	Plate B 29434	1st diff. Hr.	2nd diff. Hr.
9.15	a	3.9	0.0	0.0
9.23	b	4.7	0.75	0.75
9.24	c	5.6	1.50	1.50
9.19	d	5.8	2.25	2.25
9.12	e	6.2	3.00	3.00
8.83	f	6.7	3.75	3.75
8.80	g	7.2	4.50	4.50
8.54	h	7.9	5.25	5.25
8.26	i	8.7	6.00	6.00
8.79	j	8.8	6.75	6.75
8.50	m	9.3	7.50	7.50
8.20	n	9.8	8.25	8.25
8.00	o	10.0	9.00	9.00
7.80	p	10.5	9.75	9.75
7.60	q	11.0	10.50	10.50
7.40	r	11.5	11.25	11.25
7.20	s	12.0	12.00	12.00
7.00	t	12.5	12.75	12.75
6.80	u	13.0	13.50	13.50
6.60	v	13.5	14.25	14.25
6.40	w	14.0	15.00	15.00
6.20	x	14.5	15.75	15.75
6.00	y	15.0	16.50	16.50
5.80	z	15.5	17.25	17.25
5.60	aa	16.0	18.00	18.00
5.40	ab	16.5	18.75	18.75
5.20	ac	17.0	19.50	19.50
5.00	ad	17.5	20.25	20.25
4.80	ae	18.0	21.00	21.00
4.60	af	18.5	21.75	21.75
4.40	ag	19.0	22.50	22.50
4.20	ah	19.5	23.25	23.25
4.00	ai	20.0	24.00	24.00
3.80	aj	20.5	24.75	24.75
3.60	ak	21.0	25.50	25.50
3.40	al	21.5	26.25	26.25
3.20	am	22.0	27.00	27.00
3.00	an	22.5	27.75	27.75
2.80	ao	23.0	28.50	28.50
2.60	ap	23.5	29.25	29.25
2.40	aq	24.0	30.00	30.00
2.20	ar	24.5	30.75	30.75
2.00	as	25.0	31.50	31.50
1.80	at	25.5	32.25	32.25
1.60	au	26.0	33.00	33.00
1.40	av	26.5	33.75	33.75
1.20	aw	27.0	34.50	34.50
1.00	ax	27.5	35.25	35.25
0.80	ay	28.0	36.00	36.00
0.60	az	28.5	36.75	36.75
0.40	ba	29.0	37.50	37.50
0.20	bb	29.5	38.25	38.25
0.00	bc	30.0	39.00	39.00

Handwritten notes in the margin of the right page, including the text "Handwritten notes in the margin of the right page".

Comparison Slats for Nova Velorum 105853

[illegible]

21302	Variable No. 20	C.P.D-69 ¹⁰	391 ^x
213	Comparison stars		

h g . b
f ! c a e
var — . a !
... d

Wednesday, November 7, 1906

Variable No 20 Q.P.D. -61° 59' $\times$
Comparison Stars

2.22

B25697

a 4.8 4.8 4.9
 b 5.0 5.0 5.1
 c 5.1 5.3
 d 5.3 5.6
 e 5.7 6.0
 f 6.1 6.3
 g 6.9
 h 7.5

B16089

a 5.5 5.9
 b 6.0 6.0 6.1
 c 6.2 6.3 6.4
 d 6.8
 e 7.1
 f 7.7
 g 8.1
 h 8.9

Measurements difficult

2.26 2.28 4

Thursday, November 8, 1906

41303 Variable 22 -57° 62.24

2.3 4.5

B 23492

a 3.2 to light 3.4
 b 3.7 3.9
 c 4.1 4.3
 d 4.8 4.9
 e 5.3 5.5
 Var 4.1 4.8

B 24951

a 3.4 to light 2.6
 b 3.8 3.0
 c 3.1 3.3
 d 3.9 4.1
 e 4.3 4.6
 Var 3.9 to light 3.1

Variable No. 22 (Map of sky 12^h - 60°) α - 57° 63.24

H1270 Companion stars for Var. No. 3 ($12^h - 60^m$) C.P.D. -592207

a	4.2	5.2	5.3
b	5.4	5.6	
c	5.9	6.0	
d	6.0	6.4	6.3
e	6.6	7.0	6.9
f		7.7	
g		8.4	
h		8.6	

$\frac{1}{2}$

a	7.2	4.4	
b	4.2	4.5	
c	4.8	5.0	
d	5.5	5.7	
e	6.1	6.0	6.2
f	6.4	6.4	6.5
g	6.9	7.2	
Var	4.2	4.7	4.6

Tuesday, November 13, 1906

Comparison Stars for Var. 20-3 ($12^h - 60^m$) C.P.D. - $7^{\circ} 47'$

B 15930

a 3.9 4.0
 b 4.0 4.1
 c 4.4 4.7
 d 4.7 5.1
 e 5.1 5.4
 f 5.6 5.9
 g 6.3 6.6
 Var 4.0 4.6 4.4

B 15672

a 4.0 4.3
 b 4.1 4.4
 c 4.4 4.9 4.8
 d 5.0 5.1
 e 5.4 5.6
 f 5.9 6.3
 g 6.5 6.7
 Var 4.0 4.2

141
A.B.H.

Tuesday, November 13, 1906

A 221 Comparison Stars for Var. 29 ($12^h - 60^m$) C.P.D. - $51^{\circ} 39' 09''$

B 29093

a 5.9 6.4 6.2
 b 6.5 6.9 6.8
 c 7.3
 d 7.9
 e 8.2
 f 8.5
 Var. 7.0

B 19536

a 5.4 5.6 5.1
 b 5.9 6.0 5.6
 c 6.1 7.4 5.2
 d 6.2 7.5 7.2 6.6
 e 6.7 7.0 7.4
 f 6.9 7.3 7.7 7.2
 Var 6.0 6.2

Measures difficult

Units of meas. on 2d scale
 revised by H.S.L. Nov. 14, '06.

A.D.W.

Tuesday, November 13, 1906.

Var 29 ($12^{\circ} - 60^{\circ}$) C.P.D. - 51° 39' 09"
Comparison Stars.

B 24558		B 11190	
a 5.8	5.9	a 5.7	5.8
b 6.1	6.2	b 6.0	6.1 6.1
c 6.3	6.6	c 6.4	6.7
d 6.6	6.9	d 6.7	7.0
e	7.1	e	7.3
f	7.4	f	7.6
Var 6.1	7.0 6.6	Var	7.1

Measures difficult

2.50

A. S. H.

Thursday November 15, 1906

Variable 56 C.P.D. - 47° 42' 10" H 1282
Comparison

B 29220		B 25825	
a 4.7	4.8	a 3.7	4.0
b 5.2	5.2 5.3 b 3.9	too br. 4.1	
c 5.6	5.6 5.7 c 4.0	" 4.2	
d 5.9	5.9 6.0 d 4.2	" 4.4	
e 6.1	6.2 e 4.7	4.8	
f 6.3	6.6 f 5.1	5.2	
g	7.1 g 5.7	5.7 5.8	
Var 5.1	5.3 Var 3.7	4.0	

Omit this plate. Soil meas. another

B 21299		B 19550	
a 2.9	too br. 3.1	a 3.7	too br.
b 3.0	" 3.2	b 4.0	"
c 3.6	" 3.8	c 4.4	4.4
d 4.0	4.2	d 5.0	4.8
e 4.7	4.8	e 5.5	5.0
f 5.1	5.2	f 5.9	5.3
g 5.6	5.8	g 6.2	5.6
Var 3.3	too br. 3.5	Var 3.9	4.2

Measures difficult.

23 28

22874

Friday, November 16, 1906.

Bar. 256 C. P. D. -47° 48.0

B 18242
18428

a	4.1	4.1	4.2
b	4.2	4.3	
c	4.4	4.6	
d	4.8	5.0	
e	5.1	5.3	
f	5.3	5.8	5.6
g	5.8	6.4	6.2
bar	4.2	4.6	4.5

Difficult to
measure.

Monday, November 19, 1906

H. 1289 Bar. 11 C. P. D. -59° 38.0 7/1289
3.14 Comparison Stars.

B 15422

a	3.2	too bright	3.7
b	3.6	"	3.8
c	4.2	4.2	4.4
d	4.7	4.6	4.8
e	4.9	4.9	5.0
f	5.2	5.2	5.3
g	6.0	5.8	6.0
bar	3.5	too bright	3.7

B 29748

a	3.8	too bright	4.0
b	4.0	4.3	
c	4.4	4.7	
d	4.9	5.0	
e	5.2	5.2	5.3
f	5.6	5.5	
g	6.0	6.0	6.1
bar	5.0	5.0	5.1

3.21

A. S. H.

Monday, November 19, 1906.

Bar ¹¹ ~~4~~ C.P.D. - 59° 38' 09" 2/289

Comparison Stars

B 19076

a 3.2 too bright 3.4
 b 3.8 " " 4.0
 c 3.8 " " 4.0
 d 4.1 ⁴ 4.7 4.5
 e 4.7 ⁵ 4.0
 f 5.2 ⁵ 4.5
 g 5.9 ⁶ 5.1
 Bar 3.5 too bright 3.7

B 22873

a 3.3 too bright 3.5
 b 3.7 " " 3.9
 c 3.9 " " 4.1
 d 4.2 4.7 4.6
 e 4.7 4.9
 f 5.2 5.1 5.2
 g 5.8 5.9
 Bar 3.9 too bright 4.1

Monday, November 19, 1906

Bar. 46. C.P.D. - 60° 34' 54"

B 22873

a 1.8 too bright 2.0
 b 2.1 " " 2.3
 c 2.8 " " 3.0
 d 3.2 " " 3.4
 e 3.9 " " 4.1
 Bar 2.2 " " 2.4

a
 b
 c
 d
 e
 f
 g
 h
 i
 j
 k
 l
 m
 n
 o
 p
 q
 r
 s
 t
 u
 v
 w
 x
 y
 z

B 29748

a 3.3 too bright 3.5
 b 3.8 " " 4.0
 c 4.6 ⁴ 4.7
 d 4.9 ⁵ 4.1
 e 5.5 ⁵ 4.5 5.6
 Bar 3.7 too bright 4.0

B 29560

a 2.7 too bright 2.9
 b 3.2 " " 3.4
 c 3.8 " " 4.0
 d 4.1 " " 4.3
 e 4.6 " " 4.8
 Bar 3.0 " " 3.2

B 16130

a 2.5 too bright 2.7
 b 3.0 " " 3.2
 c 3.6 " " 3.8
 d 3.9 " " 4.1
 e 4.4 " " 4.6
 Bar 2.8 " " 3.0

3.25

A.D.H.

3.25

A.D.H.

Friday, November 23, 1906

Var. 64 C.P.D. -58° 41' 51" H. 292

22.00

Comparison Stars.

Also for suspected Var. 49

B 272222

a 3.2 too bright 3.4

b 3.9 4.0 4.2

c 4.7 4.8

d 5.0 5.2

e 5.7 5.7 5.8

Var. 3.9 too bright 4.1

B 17454

a 2.9 too bright 3.1

b 3.7 3.9 4.2

c 4.0 4.1 4.2

d 4.8 5.0 5.2

e 5.2 5.3 5.4

Var. 3.8 too bright 4.0

B 29685

a 3.7 too bright 3.9

b 4.2 4.3

c 4.8 5.0

d 5.2 5.7 5.6

e 5.8 6.3 6.2

Var. 4.0 too bright 4.2

Measure difficult

B 33250

a 3.7 too bright 3.9

b 4.1 4.3

c 4.8 5.0

d 5.1 5.3

e 6.0 6.1

Var. 3.8 too bright 4.0

22.14

A.D.S.

Friday, November 23, 1906.

Var. 41 C.P.D. C.D.M. -51° 75' 66"

1.23

Comparison Stars

B 23459

a 2.7 too bright 2.9

b 2.9 3.1

c 3.3 3.5

d 4.0 4.2

e 3.9 4.1

f 4.9 5.1

Var. 3.3 3.5

B 22448

a 2.2 2.4

b 3.2 3.4

c 2.9 3.1

d 3.5 3.7

e 3.3 3.5

f 3.7 3.9

Var. 2.7 3.0

B 25146

a 2.1 2.3

b 3.3 3.5

c 3.7 3.9

d 3.0 3.2

e 3.0 3.2

f 3.9 4.1

Var. 2.9 3.1

B 29099

a 2.7 2.9

b 3.1 3.3

c 3.6 3.8

d 3.9 4.1

e 4.0 4.2

f 4.8 5.0

Var. 3.1 3.3

Stars d and e are of nearly the same magnitude. It is intended to use one or the other for comparison, as they are so far apart that one is likely to be off the edge of the plate.

1.31

Monday, January 28, 1907

Variable 70 (Map of Sky, $12^h - 60^\circ$) = 12.1269
Comparison Stars

22.23

B 26936

a	4.5	6.1
b	5.0	6.3
c	6.4	6.7
d	7.0	7.2
e	7.8	
f	7.1	
g	7.3	
h	7.9	
i	7.4	
bar	6.0	6.4 6.3

Plate B 2955

a	5.0	5.2
b	5.4	5.7
c	5.9	6.2
d	6.3	6.3 6.4
e		7.0
f		7.3
g		7.9
h		8.7
i		9.5
bar		9.0

Measurements difficult.

22.30

A. S. H.

Monday, January 28, 1907

Variable 70 (Map of the Sky, $12^h - 60^\circ$)
Comparison Stars

22.30

B 16215

a	4.9	5.1
b	5.3	5.3 5.4
c	5.9	5.9 5.9
d	6.2	6.0 6.2
e		6.7
f		7.4
g		8.2
h		7.1
i		7.5
bar		9.0

B 33289

a	4.8	4.5
b	4.8	5.1
c	5.7	6.0
d	6.2	6.3
e		7.0
f		7.4
g		7.9
h		8.8
i		9.8
bar	6.1	6.3

22.36 A. S. H.

Friday, February 7, 1907

H. 1224 = No. 35 Carinae.

4.00

B 13793

a	3.0	to right	3.2
b	4.1		4.3
c	4.9	5.1	
d	5.1	5.6	5.7
e	5.7	6.0	
f		6.2	
g		6.4	
h		7.1	
k		7.8	
Var	4.1	to right	4.3
Measurements difficult			

B 13761

a	1.1	1.3
b	2.1	2.3
c	2.7	2.9
d	2.9	3.1
e	3.0	3.2
f	3.4	3.6
g	3.7	4.3
h	4.6	4.9
k	5.1	5.4
Var	2.3	2.5

-b

c.

Friday, February 8, 1907

H. 1224 = No. 35 Carinae

B 10836

a	1.2	1.4
b	2.1	2.3
c	2.4	2.6
d	2.8	3.0
e	3.1	3.3
f	3.9	4.1
g	4.8	5.1
h	5.2	5.5
k		6.0
Var	3.2	3.7

B 9291

a	2.0	2.2
b	2.7	3.0
c	3.1	3.3
d	3.6	3.8
e	3.8	4.0
f	4.1	4.3
g	4.7	5.0
h	5.2	5.7
k		6.3
Var	3.2	3.2

Friday, February 5, 1907.

H 1275 = 27 in Map of the Sky. C.P.D. - 55° 38' 00"

B 12793

2	4.3	4.9	4.7
b	4.9	5.2	
c	5.4	5.8	5.7
d	5.7	6.1	6.0
e	5.9	6.3	6.2
f	6.2	6.8	6.6
g		7.0	
h		7.3	
k		7.7	
Bar	6.1	6.1	6.2

a	2.2	2.4
b	2.7	2.9
c	3.1	3.3
d	3.8	4.0
e	4.1	4.3
f	4.3	4.4
g	4.7	4.9
h	5.1	5.4
k	5.6	5.8
Jan	3.9	4.1

a	2.1	2.3	
b	2.5	2.7	
c	2.9	3.1	
d	3.6	3.7	
e	3.8	4.0	
f	4.1	4.3	
g	4.4	4.3	4.4
h	5.0	4.9	5.0
i	5.4	5.4	5.5
Joe	4.0		4.2

B 9291

a	2.3	2.5
b	2.9	3.1
c	3.3	3.5
d	3.5	3.7
e	3.9	4.1
f	4.4	4.7
g	4.7	5.0
h	5.3	5.5
k		6.1
var	3.5	4.0

Friday, Feb. 15, 1907

3.28 H 1271 C.P.D. -59° 2059
 Measures to determine Brightness of Comparison Stars.

B 15179			b		
a	3.6	3.8			
b	4.0	4.3			
c	4.2	4.5	4.6		
d	5.0	5.2			
e	6.0	6.1			
f	6.7	7.0			
Bar	4.3	4.8	4.6		

B 12791			B 15419		
a	4.3	4.9 4.7	a	3.8	4.2 4.1
b	4.9	5.2	b	4.4	4.8 ⁶
c	5.2	5.5	c	4.8	4.9
d	5.7	6.0	d	5.5	5.7
e	6.2	6.4	e	6.0	6.7 6.4
f	6.8	7.0	f	7.0	7.3
Bar	5.3	5.9 5.7	Bar	4.8	5.0

B ¹²⁸¹² ~~15448~~			
a	5.0	5.2	
b	5.3	5.5	
c	5.6	5.8	
d	6.0	6.0	6.1
e	6.0	6.4	
f	6.9	7.1	
Bar	5.2	5.9	5.6

3.40 A.H. 18

Friday, February 15, 1907.

3.40 H 12721 C.P.D. -59° 2135
 Measures to determine Brightness of Comparison Stars.

B 12791			b		
be	5.3	5.7	5.6		
cd	5.6	5.9			
de	5.9	6.2			
ef	6.1	6.5	6.4		
fg	6.8	7.0			
gh	7.3				
Bar	6.3	6.7	6.6		

See pages 39 and 38

B 15179			B 12778		
be	4.7	5.0	e	4.6	4.7
cd	5.0	5.3	d	4.9	5.0
de	5.3	5.5	e	5.2	5.3
ef	5.9	6.0	f	5.4	5.5
fg	6.3	6.7	g	5.9	6.1
gh	6.7	7.1	h	6.3	6.5
Bar	6.0	6.1	Bar	5.6	5.9

B 11039		
be	4.7	4.9
cd	5.1	5.2
de	5.3	5.5
ef	5.7	5.8
fg	6.0	6.2
gh	6.6	6.7
Bar	4.7	4.9

3.52

Friday, Feb. 15, 1907.

H 1273 C.P.D. -56° 34' 25"

3.58 Measure to determine Brightness of Comparison Stars

B 11039

a	2.2	2.4
b	2.8	3.0
c	3.1	3.3
d	3.7	3.9
e	4.1	4.6
f	4.7	5.0
Var	3.9	4.1

B 12791

a	3.2	3.4
b	3.6	3.8
c	4.1	4.3
d	4.5	4.6
e	5.0	5.1
f	5.3	5.4
Var	4.0	4.6

B 13478

a	2.2	2.4
b	2.5	2.7
c	3.9	3.1
d	3.4	3.6
e	4.0	4.4
f	4.4	4.7
Var	3.7	4.0

4.15
a.D.N.

B 1577

a	2.6	2.8
b	2.8	3.0
c	3.0	3.2
d	3.3	3.5
e	4.0	4.2
f	4.4	4.6
Var	3.0	3.2

Friday, Feb. 15, 1907.

Suspected Variable 4 in the Map of the L. by.

4.05 Measure to determine Brightness of Comparison Stars

B 15179

a	5.1	5.7
b	5.4	6.0
c	5.9	6.5
d	6.6	6.9
e		7.2
Var	5.8	5.8



B 13477

a	5.4	5.7
b	5.7	5.9
c	6.0	6.1
d	6.2	6.4
e	6.3	6.6
Var	5.8	6.0

B 11039

a	5.2	5.3
b	5.5	5.8
c	5.9	6.0
d	6.1	6.4
e	6.4	6.7
Var	6.0	6.0

B 12791

a	5.8	6.1
b	6.0	6.3
c	6.1	6.6
d	6.3	6.9
e	6.6	7.1
Var	6.1	6.8

4.14

Friday, Feb. 15, 1907.

4.15 Suspected Var. 54 (map of the sky)
Measures to determine Brightness of Comparison
Stars.

B 11039

a	5.1	5.3
b	5.4	5.7
c	5.7	6.0
d	6.0	6.2
e	6.5	6.7
Var.	6.0	6.3

B 12771

a	5.7	5.9
b	5.0	6.1
c	5.2	6.3
d	5.4	6.7
e	6.7	7.1
Var.	5.9	6.6
	6.5	

B 13478

a	5.0	5.1
b	5.2	5.3
c	5.4	5.6
d	5.7	5.9
e	6.2	6.2
Var.	5.6	5.8

d

b

c

e

a

B 15779

a	5.7	6.0
b	5.0	6.2
c	5.2	6.3
d	5.6	6.7
e	6.0	7.2
Var.	6.2	6.8
	6.5	6.6

e

d

c

b

a

Monday, February 15, 1907.

Sequence of H 1271 compared with that for H 1273

3.42

	Am 3370	Am 3444	Am 3652	Am 4300	Merit - Res
a	8.7	8.8	8.8	8.7	8.75 1.00
b	9.1	9.1	9.1	9.1	9.10 0.00
c	9.3	9.3	9.4	9.3	9.32 0.01
x					

Sequence of H 1272 compared with that for H 1271

	Am 3370	Am 3444	Am 3652	Am 4300	See pages 33 and 38
c	9.3	9.2	9.3	9.2	9.20 1.01
d	9.5	9.3	9.4	9.4	9.40 1.00
e	9.8	9.8	9.7	9.7	9.75 0.01
f	10.1	10.1	10.1	10.1	10.10 0.00
g	10.6	10.3	10.5	10.6	10.50 12.01

Sequence of Suspr. 54 compared with that for H 1271

	Am 3370	Am 3444	Am 3652	Am 4300	
a	9.8	10.0	9.7	9.8	9.85 0.20
b	9.9	10.1	9.9	10.0	9.93 1.10
c	10.1	10.2	10.1	10.0	10.10 0.10
d	10.2	10.4	10.4	10.3	10.32 1.10
e	10.5	10.7	10.6	10.5	10.58 1.01

Sequence of Suspr. 4 compared with that for H 1271

	Am 3370	Am 3444	Am 3652	Am 4300	
a	9.7	9.6	9.6	9.6	9.62 10.00
b	9.8	9.8	9.8	9.8	9.80 0.00
c	10.1	10.1	10.1	10.1	10.10 0.00
d	10.3	10.3	10.3	10.3	10.30 0.00
e	10.6	10.6	10.5	10.6	10.58 0.01

4.25
A. D. W.

Wednesday, March 6, 1907

Sequence of H 1272 compared with that for H 1271.

See pages 33 and 37.

	AM 3652	AM 4310	AM 3444	AM 3370	Mean	Dev.
a	9.0	9.0	8.9	8.9	8.95	0.05
b	9.3	9.3	9.2	9.2	9.25	0.05

It was found that the variable became brighter than a of the original sequence, and there two additional ^{comparison stars} variables were selected. The star b, however, has proved to be superfluous and is to be dropped. The original star "a" thus becomes "b".

Saturday, March 9, 1907.

H 1216 C P D -52° 22' 34" (32 Cassiope)
 measured to determine Brightness of Comparison Stars.

B 17466		
a	2.7	2.9
b	2.9	3.1
c	3.0	3.2
d	3.2	3.4
e	3.8	4.2
f	4.5	4.9
g	5.0	5.2
h	5.5	5.6
Var.	5.9	6.0
Var.	4.2	4.8

for chart see page 40

B 18270		
a	4.1	4.9
b	4.5	5.2
c	4.9	5.5
d	5.1	5.8
e	5.5	5.6
f	6.0	6.2
g	6.3	6.6
h	6.6	6.9
Var.	5.6	5.7

Apparently there was some mistake in measuring or recording some stars on the second scale, and measures for c and d on second scale are therefore rejected.

Saturday, March 9, 1907.

H 1216 C PD -58° 2234

Measurements to determine the Brightness of Companion Stars.

B 15503

a	4.4	to bright	5.6
b	3.9		4.1
c	4.2		4.3
d	4.4		4.7
e	4.9		5.3
f	5.3		5.7
g	5.9		6.5
h	6.4		6.7
k			7.0
var	4.0		5.9

B 19072

a	3.2		3.4
b	3.6		3.7
c	4.0		4.2
d	4.2		4.4
e	4.6		4.8
f	5.0		5.6
g	5.8		5.9
h	6.2		6.3
k			6.8
var	4.2	to bright	4.4

Measurements difficult.

0.15

A.D.N.

Saturday, March 9, 1907.

H 1220 C PD -60° 2033

(39 Cassiope)

Measurements to determine the Brightness of Companion Stars.

B 15503

a	4.1		4.2
b	4.5		4.7
c	4.8		5.0
d	5.1		5.6
e	5.6		5.9
f	6.2		6.3
g	6.7		7.0
var	5.8		6.3

B 18270

a	4.9		5.1
b	5.4		5.7
c	5.6		5.9
d	5.8		6.0
e	6.0		6.1
f	6.6		6.5
g			7.1
var	5.8		5.9

B 18270: Measurements rather difficult.

B 18466

a	3.7		3.9
b	3.9		4.1
c	4.0		4.5
d	4.8		4.8
e	4.8		5.2
f	5.2		5.6
g	5.9		6.4
var	4.2		4.7

B 19172

a	4.0		4.2
b	4.6		4.7
c	4.9		4.9
d	5.2		5.3
e	5.4		5.7
f	5.9		6.0
g	6.6		6.8
var	5.1		5.6

Monday, March 11, 1907

Sequence for H 1216 compared with that
for H 1273

	²³⁴⁴ ~~Am 1273~~	Am 3370	Am 4350	Am 5672	
a	8.4	8.3	8.4	8.5	8.40 1.010
b	8.6	8.5	8.6	8.6	8.58 1.000
c	8.6	8.6	8.8	8.7	8.68 1.101
d	8.7	8.8	8.9	8.8	8.80 0.101
e	9.0	9.1	9.1	9.1	9.08 0.100
f					

Sequence for H 1220 compared with that
for H 1271

	Am 3370	Am 3444	Am 3672	Am 4350	
a	8.7	8.6	8.7	8.7	8.68 0.100
b	9.1	8.9	9.0	9.0	9.00 1.100
c	9.3	9.1	9.3	9.1	9.25 1.111
d	9.5	9.4	9.5	9.5	9.48 0.100
e	9.9	9.7	9.8	9.8	9.80 1.100

Saturday
~~Friday~~, March 2³₂, 1907H 1228 CPD = 58 2797
Companion Stars

	B 18270	
a	5.2	5.3
b	5.7	5.8
c	6.4	6.1 6.7
d		6.6
e		7.0
f		7.2
g		7.3
h		7.5
bar		7.0

a d e
b f
c h
i
j

	B 15321	B 15503	B 19072	
a	3.8	4.0	4.2	3.9
b	4.2	4.6 4.5	4.7	4.7
c	4.7	4.9	5.4	4.9
d	5.0	5.3	5.8	5.3
e	5.3	5.8 5.6	6.1	5.8
f	5.7	6.0	6.8	6.3
g	6.0	6.6 6.4	7.1	6.8
h		6.7	7.4	7.1
bar	4.8	5.0	6.1 6.2	5.2 5.3

Saturday, March 23, 1907.

Hump. Var. *Es. Centauri* - 59° 2804

B 19072

a 4.8 5.2 5.1
 b 5.2 5.7 5.6
 c 5.5 5.9 5.8
 d 5.8 6.2
 var 5.4 5.4 5.5

1 B 16042

a 4.4 4.3 4.4
 b 4.7 4.8
 c 5.0 5.1
 d 5.2 5.5
 var 4.2 4.7 4.6

B 21565

a 5.1 5.8 5.7
 b 5.6 6.1 6.0
 c 5.9 6.3 6.2
 d 6.2 6.6 6.5
 var 5.9 6.4 6.2

B 17466

a 3.3 too bright 3.5
 b 3.7 4.0
 c 4.0 4.2
 d 4.4 4.6
 var 4.0 4.2

Saturday, March 23, 1907.

H 1227 C. P. D. - 58° 2797
 second meas. See also p. 43

B 17466

a 5.0 5.2
 b 3.4
 c 5.8 6.2
 d 3.4
 e 5.6 5.8
 f 4.1 4.4
 g 5.1 5.7
 h 5.9 6.0
 var 5.7

B 17270

a 4.7 5.0
 b 5.4 5.7
 c 5.8 5.8 5.9
 d 5.6 6.5 6.2
 e 5.9 6.3 6.2
 f 6.9 6.7 6.9
 g 6.1 6.9 6.6

h 6.7 7.0 This plate is very different
 var. 6.7 to compare.

B 15503
~~B 15565~~

a 5.0 5.4 5.3
 b 4.1 4.3
 c 6.2 6.7 6.6
 d 4.5 4.7
 e 5.2 5.6 5.5
 f 6.0 6.1
 g 6.8 7.0
 h 7.5
 var 6.1

B 19072

b 4.7 4.9
 c 5.9 6.7 6.4
 d 6.7 7.1 7.0
 e 5.3 5.6
 f 4.0 4.2
 g 5.1 5.3
 h 6.0 6.9 6.6
 i 5.7 5.9
 var 5.1 5.3

B 18321

a 4.9 5.7 5.4
 b 5.7 6.1 6.0
 c 4.0 4.5 4.4
 d 5.6 6.0 5.9
 e 4.6 5.0 4.9
 f 6.1 6.3
 g 3.9 too bright 4.1
 h 5.0 5.3
 var 4.7 4.9

Measure on this ^{from} plate made irregularly instead
 of in order of brightness.

Tuesday, March 26, 1907

H 1274 CPD - 61° 1905

B 16506

a 3.5 3.7
 b 4.0 4.2
 c 4.6 4.9
 e x 5.5 5.5 5.6
 f x 5.7 5.8
 g x 6.0 6.1
 d x 5.1
 Var 4.2 4.8 4.6

B 13199

a 3.7 3.9
 b 4.1 4.7 4.8
 c 4.5 5.0 4.8
 e x 4.9 5.2
 f x 5.1 5.6 5.4
 g x 5.6 6.0 5.9
 d g 4.7
 Var 4.6 4.8

B 15213

a 2.9
 b 3.6
 c 4.2
 d 4.4
 e 5.0 5.1
 f 5.6 5.8
 g 5.9 6.2
 Var 5.2 5.4

B 13477

a 4.0 4.2
 b 4.3 4.8 4.6
 c 5.0 5.5 5.4
 d 5.2 5.1 5.2
 e 5.6 5.9 6.0
 f 5.9 6.2
 Var 5.1 5.2

c is difficult to measure on account of a star nearby.

A.S.K.

Thursday, March 28, 1907.

H 1276 CPD - 61° 1955

21.30 B 15555¹⁹⁰

a 2.8 3.0
 b 3.4 3.6
 c 4.0 4.7 4.4
 d 4.3 4.8 4.6
 e 4.7 5.3 5.2
 f 5.6 5.9
 Var 3.7 3.9

B 13199

a 3.2 3.4
 b 3.7 3.9
 c 4.1 4.3
 d 4.4 4.4 4.5
 e 5.0 5.2
 f 5.6 5.8
 Var 4.0 4.2

B 15701

a 3.1 3.3
 b 3.7 3.9
 c 3.9 4.1
 d 4.4 4.6
 e 4.6 4.9
 f 5.1 5.6 5.4
 Var 3.8 4.0

B 10924

a 3.8 4.0
 b 4.4 4.6
 c 5.0 5.2
 d 5.3 5.6
 e 5.7 6.0
 f 6.4 6.7
 Var 4.7 5.0

Varies very much elongated.

2.42

B.S.K.

Thursday, March 28, 1907.

H 808 CPD - 60° 2326

~~Surf. Var 58 (Magp. Sky 260°) CPD - 59° 2504~~

B 10924

a 4.8 5.2 5.1
 d 5.0 5.8 5.5
 e 5.9 6.0
 f 5.9 6.2
 g 6.0 6.7 6.4
 h 6.7 7.1 7.0
 k 7.8
 Var 6.6 7.0 6.7

B 15101

a 4.0 4.4 4.2
 d 4.3 4.3 4.5
 e 4.8 5.1 5.0
 f 5.4 5.7 5.5
 g 5.7 6.0 5.8
 h 6.1 6.6 6.2
 k 6.7 6.8
 Var 4.9 5.0 5.0

B 21565

a 4.8 5.2 5.1
 d 5.0 5.7 5.4
 e 5.8 6.0
 f 6.0 6.2
 g 6.2 6.3
 h 6.7 7.0
 k 7.7
 Var 6.0 6.2

B 19072

a 5.0 5.2
 d 5.3 5.9 5.7
 e 5.7 6.0
 f 5.9 6.0
 g 6.0 6.1
 h 6.3 6.5
 k 7.0
 Var 5.8 5.7 5.8

Two lighter stars, a and b, added June 26, 1907.

For additional measures, see page 69.

3.00

A.D.H.

Monday, April 1, 1907

H 1279 - 60° 2497

23.00 and Suspected Var. 30

B 10924

a 4.6 3.8
 d 4.1 4.2
 e 4.5 4.9 4.8
 f 5.2 5.6 5.5
 g 5.4 5.6
 h 5.7 5.9
 i 5.9 6.2
 k 6.5 6.8

1279 Var. 5.9 5.8 6.0

30 Susp. Var. 5.1

B 13199

a 3.7 3.9
 d 4.0 4.2
 e 4.6 4.8
 f 5.0 5.2
 g 5.1 5.3
 h 5.4 5.6
 i 5.7 5.9
 k 6.0 6.7 6.4

Var 1279 5.5 ^{5.6} _{5.4} ^{5.6} _{5.4}

Suspected Var. 4.6 4.9

B 15190

a 3.0 3.2
 d 3.4 3.6
 e 4.1 4.3
 f 4.8 5.0
 g 5.0 5.2
 h 5.4 5.6
 i 5.7 6.0
 k 6.3 6.7 6.7

* 1519 5.8 6.6 6.3

30 3.6 ^{3.8} _{3.8}

* image of var. is defective

B 17290

a 2.7 2.9
 d 3.0 3.2
 e 3.7 3.9
 f 4.3 4.5
 g 4.4 4.7
 h 5.0 5.1
 i 5.7 5.8
 k 6.2 6.7 6.6

1279 4.1 4.0

30 3.6 3.8

See page 52
for record
measurements.

23.22

A.D.H.

Monday, April 1, 1907.

H 1220 C.P.D. -58° 32' 16"
Comparison Stars.

B 12813

a	2.2	2.4
b	2.5	3.0
c	3.1	3.3
d	3.6	3.8
e	3.9	4.1
f	4.3	4.5
bar	3.8	4.0

B 18179

a	2.0	2.2
b	2.7	2.9
c	3.0	3.2
d	3.0	3.2
e	3.3	3.5
f	3.7	3.9
bar	2.6	2.8

B 11152

a	3.2	3.4
b	3.7	3.9
c	4.0	4.2
d	4.4	4.6
e	4.8	5.0
f	5.0	5.2
bar	4.7	4.8

B 21266

a	1.9	2.1
b	2.7	2.9
c	3.1	3.3
d	3.2	3.4
e	3.6	3.8
f	4.0	4.2
bar	2.8	3.0

Tuesday, March 26, 1907.

H 1274 C.P.D. -61° 17' 05"

Second Measurement. See page 46

0.57

B 15213

a	2.8	3.0
b	3.4	3.6
c	4.1	4.3
d	4.0	4.2
e	5.0	5.2
f	5.7	5.9
g	5.9	6.1
bar	3.2	3.4

B 16506

a	3.8	4.0
b	4.2	4.4
c	4.7	4.9
d	5.0	5.2
e	5.3	5.5
f	5.6	5.8
g	6.0	6.2
bar	4.8	5.0

B 13199

a	3.6	3.8
b	4.0	4.2
c	4.7	5.0
d	4.6	4.9
e	5.0	5.3
f	5.1	5.4
g	5.9	6.2
m	4.3	4.6

B 13477

a	3.9	4.1
b	4.1	4.4
c	5.0	5.2
d	4.8	5.1
e	5.4	5.6
f	5.7	5.9
g	5.9	6.1
m	5.0	5.1

These measurements were made, not in the order of brightness, but irregularly in order to test the complete independence of the scale numbers.

A. D. H.

1.14

Monday, April 1, 1907.

H 1279 and Luch. var. 30

23.26

Comparison Stars. Second Measurement
in page 47.

B 10924

f. & 4.1 4.2
 var 1279 5.7 5.9
 g & 6.0 6.1
 c & 4.7 4.9
 f & 5.6 5.8
 a f 3.5 . 3.7
 d g 5.3 5.6
 h & 6.6 6.7
 var 30 var 1279 5.0 5.2
 e Luch. 20 5.4 5.6

B 15790

g 5.0 6.1
 d 5.0 5.2
 a 2.9 . 3.1
 c 4.1 . 4.3
 e 4.9 4.9 5.0
 h 6.6 6.9
 f 5.1 5.4
 var 30 3.5 . 3.7
 b 3.2 . 3.4

var 1279 omitted on account
of defective image

0.00

A.D.H.

B 13199

e 5.0 5.2
 g 5.6 6.0 5.9
 a 3.7 . 3.9
 d 5.2 5.4
 f 5.1 5.7 5.5
 h 6.3 6.6
 var 1279 5.0 image defective
 b 3.9 4.5 4.0
 var 30 4.7 4.9
 c 4.4 4.9 4.8

B 15290

var 1279 4.4 4.8 4.7
 h 6.3 6.5
 d 4.4 4.7 4.7
 a 2.7 . 2.9
 c 4.0 . 4.2
 f 5.2 5.5
 h 2.9 . 3.1
 e 4.7 5.0
 g 5.9 6.2
 var 30 3.6 . 3.8

Monday, April 1, 1907.

Suspected Variable 43 C.P.D. -61° 2103

0.05

B 18290

a 2.1 2.3
 b 2.3 2.5
 c 2.7 3.0
 d 3.0 3.2
 e 3.2 3.4
 f 3.7 3.9
 var 2.7 2.9

B 15190

a 3.0 3.2
 b 3.2 3.4
 c 3.7 4.0
 d 4.0 4.2
 e 4.1 4.3
 f 4.3 4.5
 var 3.6 3.8

B 13199

a 3.7 3.9
 b 3.9 4.1
 c 4.0 4.2
 d 4.3 4.5
 e 4.6 4.8
 f 4.9 5.1
 var 4.1 4.3

B 10924

a 3.7 . 3.9
 b 4.0 . 4.2
 c 4.3 4.7 4.6
 d 4.6 4.9
 e 5.0 5.3 image defective
 f 5.1 5.4
 var. 4.2 4.4

0.03

A.D.H.

Monday, April 1, 1907.

H 1270 C.P.D. - 58° 32' 16"

3.48

Comparison Stars. Second Measurements.

B 12813

f 4.1 4.3
 var. 3.7 3.9
 a 2.2 2.4
 c 3.2 3.4
 e 3.8 4.0
 b 2.8 3.0
 d 3.5 3.7

B 18179

b 2.7 2.9
 f 3.7 3.9
 var. 2.6 2.8
 d 3.0 3.2
 a 1.9 2.1
 c 3.0 3.2
 e 3.4 3.6

B 11152

c 4.4 4.5
 f 5.0 5.6 5.4
 a 3.2 3.4
 d 4.1 4.8 4.6
 var. 4.6 4.8
 b 3.8 4.0
 e 4.7 5.0

B 21266

var. 2.9 3.1
 a 1.8 2.0
 c 2.9 3.1
 e 3.3 3.5
 b 2.8 3.0
 f 3.9 4.1
 d 3.2 3.4

4.00

A. D. H.

Wednesday, May 8, 1907

H 1277 C.P.D. - 64° 15' 64" 105364 18° 55' 22" - 69° 35'

B 31365

c x 4.2 5.4
 g x 6.3 6.8 6.6
 c x 4.9 5.1
 f x 5.9 6.2
 var. 5.4 5.7
 d x 4.9 4.9 5.0
 h x 6.8 7.0

B 22810

h x 6.3 6.8 6.6
 d x 5.0 5.1
 var. 5.9 6.0
 e x 5.6 5.8
 g x 6.2 6.6 6.5
 c x 4.9 5.0
 f x 6.0 6.1

B 16301

var. 4.0 4.3
 f x 5.1 5.2
 c x 3.9 4.0
 d x 3.9 4.0
 h x 5.9 6.2
 e x 4.5 4.6
 g x 5.4 5.4 5.5

B 35351

f x 6.3 6.1 6.3
 d x 4.0 4.3
 var. 5.8
 c x 5.3 5.5
 c x 4.0 4.2
 g x 7.0 7.2
 h x 7.6

Saturday, May 25, 1907

B 31365

b 4.4 4.7
 a 3.4 3.6
 c 5.0 5.2

B 16301

a 2.9 3.1
 c 4.0 4.3
 b 3.6 3.8

B 22810

c 5.0 5.6 5.4
 a 3.7 3.9
 b 4.6 5.0 4.9

B 35351

a 3.7 3.9
 c 4.9 5.0
 b 4.4 4.3 4.4

the sequence is near edge on all these plates, making measurement difficult and results rather variable. was found to grow brighter than star originally marked B, as two

Wednesday, May 7, 1907.

14 1278 CPD -63° 1798 105863 105819-63° 42' 19"

B 31365
 bar 5.0 5.5 5.4
 f 6.5 7.0 6.8
 c 5.5 5.7
 e 6.3 6.2 6.3
 t 5.1 5.0 5.2
 a 4.0
 d 5.4 5.8 5.7

B 35351
 bar 6.5 6.7
 t 4.8 5.1
 f
 a 3.2
 d 5.7 5.8
 c 5.2 5.7 5.6
 e 6.1 6.2 6.6

B 16301
 bar 5.1 5.6 5.4
 f 6.0 6.2
 t 4.1 4.1 4.2
 c 5.3 5.7 5.6
 a 5.0 5.3
 d 3.3
 e 5.0 5.2

B 22710
 d 6.1 6.3
 b 5.0 5.2
 d 5.6 6.0 5.7
 a 3.8
 f 6.5 6.7 6.8
 bar 5.9 6.1
 c 5.1 5.9 5.6

0.
 A. S. H.

Wednesday, May 7, 1907

Limp. bar 60 11 19 30.5 -60° 2.9 0.22-40° 29.7

B 15346
 bar 4.9 5.3 5.2
 f 4.3 4.8 4.6
 e 5.7 5.8
 a 4.0 4.0 4.1
 c 4.9 5.0
 d 5.0 5.2

B 17290
 f 3.5
 d 4.1 4.7 4.5
 bar 3.6
 a 3.0
 c 4.0 4.1
 e 4.7 5.4 5.2

B 21120
 a 3.3
 d 4.9 5.1
 bar 4.8 5.1
 t 4.0 4.0 4.1
 e 5.5 5.7 5.8
 c 4.8 5.0

17346
 B 7967
 e 3.9 4.3 4.2
 c 4.8 5.2 5.1
 t 4.1 4.7 4.5
 e 5.7 5.9
 bar 5.2 5.3
 d 5.1 5.2

Wednesday, May 7, 1907.

H 1228 remeasured.

B 19072				B 18270			
var.	5.0	5.3	~~5.4~~	d	6.2	6.3	
f	6.2	5.8	6.1	f	6.5	6.8	
a	3.9	4.3	4.2	a	5.0	5.6	5.4
t	4.3			c	5.9	6.0	
g	5.2	6.3		h	7.0	7.3	
c	4.8	5.2	5.1	t	5.7	5.5	5.7
b	4.7	4.6	4.8	var.	6.8	6.8	6.9
h	6.6	6.9		e	6.0	6.7	6.4
d	5.3	5.4		g	6.8	7.0	
e	5.9	5.7	6.0				

B 15503				B 17321			
d	5.7	5.9		var.	5.0	5.1	
var.	6.4	6.5		a	4.0		4.2
h	5.0	4.9	5.0	a	4.7	4.8	
f	6.2	5.8	6.6	f	5.6	6.0	5.9
a	4.2	4.8	4.6	h	4.0	4.5	4.4
g	6.7	7.1	7.0	h	6.0	6.4	6.3
c	5.0	5.6	5.4	e	5.1	5.6	5.4
h		7.4		g	5.9	6.2	
e	6.0	6.2		d	4.9	5.1	

Probably
 Prob. a mile later for 6.8. Orig. plate examined.
 Adgt 6.8

A. D. H.

Friday, May 10, 1907.

H 1228 remeasured.

B 18321				B 19072			
var.	4.7	5.2	5.0	d	5.4	5.8	5.4
a	4.0	4.2		a	4.1	4.1	4.2
e	5.3	5.5		c	4.9	5.0	5.3
c	4.6	5.0	4.9	h	6.9	6.7	7.0
h	6.0	6.2		f	6.0	6.3	6.6
t	4.1	4.3		var.	5.5	5.1	5.3
f	5.6	6.1	6.0	h	4.8	4.7	4.8
d	5.0	5.3		e	6.1	5.8	5.8 5.9
g	5.9	6.1		g	6.6	6.3	6.9 6.7

B 15503				B 18270			
var.	6.3	6.5		var.	6.7	7.0	
h	5.0	4.9	5.0	d	6.1	6.1	6.2
f	6.6	6.7		f	6.6	6.8	
h		7.3		h	5.7	5.6	5.8
d	5.3	5.8	5.6	h		7.2	
a	4.3	4.8	4.6	t	6.4		
e	5.9	6.2		a	5.2	5.6	5.8
c	5.3	5.3	5.4	e	6.0	6.4	6.3
g	6.6	7.0	6.9	g	6.8	7.0	
				c	5.9	6.1	

this plate is very difficult to make
 comparison on.

A. D. H.

Wednesday, May 22, 1907.

H 1284 CPD -50° 4279 Orig. No. 44
Scale Murens of Comparison Stars

B 92320
 f 6.8 7.3 7.2
 c 5.0 6.3
 h 5.4
 var 5.2
 h 5.0
 d 5.2 6.8 6.6
 a 5.8 6.1
 g 7.7
 e 5.6 6.9
 t 5.8 6.1
 l 9.1

B 22647
 g 7.9
 h 5.8 6.1
 h 8.0
 var 7.0 7.2
 c 6.4 7.0 6.8
 e 7.0 7.5 7.4
 d 6.7 7.1 7.0
 a 5.7 5.8
 l 9.8
 h 9.0
 f 7.5

B 9192
 f 6.9 7.3 7.2
 c 6.3 6.8 6.6
 e 6.8 7.1
 a 5.7 5.9
 d 6.5 7.2 7.0
 t 6.0 6.5 6.4
 var 5.5
 h 5.7
 g 7.8
 l 9.3
 h 5.3

B 13702
 c 5.7 5.8
 var 6.8 7.3 7.2
 a 5.3 5.7 5.6
 e 5.9 6.3 6.2
 b 5.6 5.8
 f 6.3 6.5
 g 6.8 6.9
 d 5.9 6.4 6.2
 l 6.8
 h 7.5
 k 7.7

Friday, May 24, 1907

H 1284 CPD -47° 5118 Orig. No. 45
Scale Murens of Comparison Stars

B 29797
 e 5.9 6.1
 l 6.9 7.2
 a 4.0 4.4 4.3
 d 5.3 5.7 5.6
 g 6.2 6.7 6.6
 var 5.7 7.0
 f 6.0 6.4 6.3
 t 4.3 4.9 4.7
 c 4.7 5.5 5.2
 k

B 36058
 d 5.2 6.1 6.2
 f 6.5 7.0 6.8
 var 6.8 7.0
 h 7.7
 t 5.6 5.7
 a 4.7 4.9
 g 6.9 7.0
 c 5.7 5.9
 e 6.5 6.6

B 29078
 var 6.8 7.0
 c 5.6 5.6 5.7
 a 4.7 4.9
 f 6.4 6.6
 h 7.5
 d 5.7 5.8
 g 6.7 6.8
 h 5.2 5.2 5.3
 e 6.0 6.6 6.4

B 19527
 h 6.3 6.5
 h 6.7 7.0
 d 4.8 5.0
 a 3.8 4.1
 g 5.9 6.3 6.2
 c 4.5 4.8
 e 5.4 5.6
 h 4.5 4.7
 f 5.7 5.8

Monday, June 3, 1907.

#1285 Var. 61

113657

Scale measure of comparison stars.

B 19537
 var 4.2 6.4
 f 4.3 4.2 4.4
 e 6.4
 d 5.3 5.2 5.6
 a 3.9 4.0
 c 4.9 5.0
 b 5.9
 m 5.3
 n 9.8
 h 5.2
 l 9.7
 g 7.7
 f 6.3

B 21774

var 9.7 image defective

c 5.7 5.8
 g 7.0 7.0 7.1
 e 4.9 5.0 5.2
 d 5.9 6.2
 b 7.7
 f 5.5 5.6
 e 6.2 6.7 6.5
 f 6.6 6.9
 m 10.0
 n 9.4
 h 5.3
 l 9.1

Unit figure changed after examination
 Sunday, June 4, 1907.

A.D.K.

Monday, June 3, 1907.

#1285 Var. 61

113657

Scale measure of comparison stars.

B 153221 B 9293
 d 6.7 7.4 7.2 var 6.9 7.1
 a 5.8 6.0 c 6.0 6.3
 c 6.3 6.4 a 5.7 5.8
 b 6.0 6.3 d 6.5 6.7
 var 9.5 b 5.9 5.8 6.0
 h 5.7 e 7.0 7.4 7.3
 e 7.8 g 7.8
 f 8.1 m
 h 9.3 n
 m 2.5 l 9.3
 n 2.5 f 7.4
 g 8.5 h 8.2
 l 9.7 k 8.5

Monday, June 3, 1907.

Suspected variable No. 35 112656 CPD. -56° 45' 57"
 Scale measures of comparison stars.

B 9293

Var. 3.6 3.8
 a 3.0 bright 3.2
 d 4.0 for 4.2
 f 4.2 4.4
 c 3.8 4.0
 e 4.0 4.2
 h 3.6 3.8

a
 b
 c
 d
 e
 f
 g
 h

Very slightly enlarged

B 15322

b 4.0 4.2
 c 4.9 5.1
 Var. 4.0 4.2
 c 4.2 4.4
 f 4.8 5.0
 d 4.2 4.4
 a 3.7 3.9

regular in range

All measures very difficult

B 21774

f 3.9 4.1
 b 3.1 3.3
 d 3.4 3.6
 Var. 3.4 3.6
 c 3.8 4.0
 e 3.5 3.7
 a 2.7 2.9

B 19534

f 3.7 3.9
 d 4.2 4.4
 a 3.4 3.6
 f 4.7 4.9
 c 4.0 4.2
 Var. 4.1 4.3
 e 4.5 4.7

Friday, June 26, 1907.

Variable H 1286 (1286) CPD. -62° 22' 23"

a 30

B 33127

f 5.8 6.1
 d 4.7 4.8
 a 3.2 3.4
 b 6.9 7.0
 c 4.0 4.2
 g 6.1 6.3
 h 3.7 3.9
 e 5.5 5.6
 Var. 5.2

a
 b
 c
 d
 e
 f
 g
 h

B 29145

g 6.2 6.6 6.5
 c 5.6 6.3 6.1
 a 4.1 4.3
 d 5.8 5.5
 f 6.0 6.6 6.4
 h 6.7 7.0
 b 4.8 5.0
 e 5.3 5.6
 Var. 5.7 5.8

B 29560

a 3.8 3.0
 e 4.6 4.8
 b 5.9 6.1
 c 3.8 4.0
 Var. 4.7 5.2 5.0
 h 3.5 3.7
 d 4.0 4.2
 g 4.7 6.0
 f 6.1 5.6 5.4

B 29748

Var. 5.6 5.9
 a 3.7 3.9
 f 5.9 6.6 6.4
 h 6.6 6.9
 c 4.8 4.9
 e 5.9 5.9 6.0
 g 6.3 6.8 6.6
 d 4.8 5.2 5.1
 f 4.5 4.7

Friday, June 26, 1907.

Suspected Variable No. 63 (Map of Sky Region 50)

B 29748
 bar 5.5 5.7
 f 6.2 6.6 6.5
 c 4.8 5.1
 a 4.3 4.6
 d 5.7 5.7 5.8
 b 4.9 5.2
 e 5.6 5.7

B 29560
 bar 4.2 4.5
 a 3.6 3.8
 c 4.1 4.6 4.4
 e 5.0 5.2
 b 3.8 4.0
 f 5.7 5.9
 d 5.0 5.0 5.1

B 29075

bar 5.3 5.4
 a 4.3 4.7 4.6
 c 4.7 5.3 5.2
 f 6.1 6.7 6.6
 d 5.6 5.9
 b 4.4 5.0 4.8
 e 5.9 6.0

B 33128

f 6.7 6.7 6.8
 a 4.7 5.6 5.3
 e 3.9 4.1
 d 5.4 5.8 5.4
 c 4.8 5.3 5.2
 bar 5.1 5.5 5.4
 b 4.2 4.5

June 26 Remarks on B33128. Measure of comparison star
 c on first scale is certainly wrong. Repeat
 and adopt measure on second scale.

H.S.L.

A.D.H.

Thursday, June 27, 1907.

H 508

22.20

Measurement of additional comparison stars
 Continued from page 48

B 21565

b 5.0 5.1
 d 5.7 6.0
 a 4.4 4.8 4.7
 c 5.6 6.7

B 16101

a 3.7 3.9
 c 4.4 4.8 4.7
 b 3.9 4.1
 d 4.7 5.0

B 10924

a 4.8 4.8 4.9
 c 5.3 5.5
 b 4.9 5.0
 d 5.7 6.1

Smaller on new edge,
 elongated and difficult
 to compare with scale

B 19072

c 5.1 5.4
 a 4.1 4.0 4.2
 d 5.6 5.7
 b 4.3 4.4

A.D.H.

Tuesday, July 16, 1907

Variable 173 Nova(?) Circini

B13483

a	4.2	4.6	4.5
f	4.7	4.8	
c	5.6	5.8	
d	5.9	5.9	6.0
e	6.0	6.6	6.4
f	6.2	6.7	6.6
g	6.7	7.2	7.2
h		7.7	
k		8.0	
l		8.7	
m		8.8	
n		9.7	
o		n.s.	

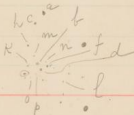
B33435

a	4.9	5.0
b	5.5	5.6
c	6.0	6.3
d	6.8	7.0
e		7.3
f		7.8
g		7.9
h		8.6
i		9.2
j		9.8
k		10.1
l		n.s.

B2973

a	5.1	5.3
b	5.7	5.9
c	6.2	6.7
d	6.7	7.0
e		7.3
f		7.7
g		8.0
h		8.6
i		9.1
j		9.8
k		10.2
l		n.s.

(Mean taken 7.1 in order to preserve internal f-g)



B10849

a	3.7	5.2	5.9
b	4.5	4.8	
c	5.2	5.6	5.5
d	6.4	6.9	6.8
e	6.8	7.2	7.1
f		7.6	
g		7.7	
h		8.8	
i		9.5	
j			
k			
l			
m			

Large extremely faint

Tuesday, September 10, 1907.

Variable 72 H 1287

1.30

B16224

a	4.5	4.4	4.6
b	5.5		5.7
c	6.1	6.4	
d	3.8		4.0
e	1.9		2.1
f	3.4		3.6
g	5.6	5.3	5.6
h	3.9		3.1
i	5.8	6.0	

B29686

a	4.5	4.8
b	6.7	7.1
c	4.0	4.6
d	3.9	3.1
e	6.2	6.7
f	4.8	5.2
g	6.0	6.5
h	5.0	5.3
i	5.6	5.9

B24971

a	2.9	3.1
b	3.6	3.8
c	6.6	6.7
d	4.0	4.2
e	2.0	2.2
f	4.9	5.0
g	5.8	6.3
h	3.8	4.0
i	5.6	5.7

B18865

a	4.1	4.5
b	4.8	5.0
c	6.3	6.4
d	5.7	5.7
e	5.1	4.9
f	3.2	3.4
g	5.9	6.0
h	6.8	7.0
i	4.6	4.8

1.48

0.90

Tuesday, September 10, 1907.

Variable H 1230

1.47

B 18865

e 6.1 6.4
 g 7.3
 h 5.2 5.7 5.6
 d 5.7 6.2 6.1
 f 6.8 6.9
 a 5.0 5.0 5.1
 var. 6.1 6.5 6.4
 c 5.5 5.9 5.8

Images extremely poor, measures difficult.

B 16224

e 5.7 5.7 5.8
 c 4.9 5.1
 g 6.9 7.0
 a 4.6 4.8
 d 5.8 5.9
 f 6.3 6.3 6.4
 var. 5.9 5.7 6.0
 b 5.0 5.0 5.1

Images poor, measures difficult

B 24971

e 6.3 6.6
 var. 5.9 6.6 6.4
 a 5.0 5.4 5.3
 f 6.7 6.8
 d 6.0 6.3
 g 6.9 7.2
 c 5.8 5.9
 b 5.6 5.9

Images poor, measures difficult

B 29686

f 5.9 6.0
 f 7.0 7.2
 d 6.2 6.6 6.5
 a 5.3 5.3 5.4
 g 7.5
 c 5.8 5.9
 var. 6.3 6.8 6.6
 e 6.1 6.6 6.4

Images poor, measures difficult

Images are near the edge on all three plates.

2.05
A.D. H.

Tuesday, September 10, 1907.

Variable H 1291

2.05

B 18206

e 6.8 7.3 7.2
 a 5.7 6.2 6.0
 var. 7.7
 d 6.8 7.4 7.2
 g 8.4
 h 6.4 6.8 6.7
 c 6.5 7.3 7.0
 f 7.9

measures are very difficult

B 29747

a 5.9 6.3 6.2
 e 7.0 7.9
 var. 7.8
 f 8.2
 g 8.5
 c 6.9 7.2
 b 6.7 7.1 7.0
 d 7.0 7.5 7.4

measures difficult

B 25625

var. 6.7 6.5 6.7
 a 5.8 5.8 5.9
 d 6.8 6.9
 b 6.1 6.5 6.4
 g 7.7
 f 7.3
 e 7.0 6.9 7.0
 c 6.7 6.8

measures very difficult

B 19566

e 7.0 7.2 7.1
 f 7.6
 g 8.0
 a 5.8 6.1
 var. 7.6 6.9 7.0
 b 6.4 6.7
 d 6.7 7.2 7.0
 c 6.4 7.0 6.8

measures difficult

2.23

Wednesday, September 11, 1907

Provisional Sequence of Comparison stars for
Variable in Map of the Sky, Region 15 (10° to 30°)
Marked on Plate B I 3386

1.55

I 3380

a

b 1.1 1.8

c 3.3 2.5

d 2.8 3.0

e 3.4 3.6

f 3.9 4.1

g 4.2 4.1 4.2

h 4.8 4.8 4.9

i 5.0 5.2

l 5.2 5.6 5.5

m 5.9 5.9 6.0

n 6.2 6.3

o 6.8 7.1

p 8.6

I 6176

a

b 1.0 1.2

c 2.7 2.9

d 3.0 3.2

e 3.6 3.8

f 3.9 4.1

g 4.1 4.3

h 4.5 5.0 4.8

i 5.3 5.6

l 5.6 5.9

m 6.0 6.5 6.4

n 6.7 6.9

o 8.0

p 7.1

Wednesday, September 11, 1907, 75

Provisional Sequence of Comparison stars for Variable
in Map of the Sky, Region 15 (10° to 30°) cont.

I 21893

a 1.2 1.4

b 2.0 2.2

c 3.9 4.1

d 4.1 4.3

e 4.8 4.8 4.9

f 5.1 5.2

g 5.8 5.7 5.8

h 6.2 6.3

i 6.5 6.8

l 7.1

m 7.8

n 8.1

o 8.6

p 9.3

I 3358

a

b 1.5 1.7

c 2.6 2.8

d 2.9 3.1

e 4.0 4.2

f 4.3 4.5

g 4.7 4.8

h 5.0 5.2

i 5.4 5.8

l 6.0 6.1

m 6.6 6.5

n 6.7 7.0

o 7.8

p 7.7

Friday, September 13, 1907.

H 1292 (Var 66) CPD -49° 49' 65"

B 31603
 t 4.9 5.5 5.3
 f 7.0 7.2
 var 6.9 6.3 6.2
 a 4.7 5.0
 e 6.7 6.9
 g 7.6
 d 6.0 6.1
 c 5.6 5.9

Var a and b are the same as those in
 the sequence for H 1294

B 11427
 c 5.2 5.3
 f 6.8 7.3 7.2
 d 5.9 6.0
 a 4.6 4.9
 e 6.7 6.8
 var. 5.3 5.2 5.4
 t 5.1 5.3
 g 7.5

B 25660
 t 4.9 5.2
 f 7.0 7.1
 d 5.5 6.0 5.8
 a 4.7 4.9
 e 5.9 6.5 6.3
 var 5.7 5.8
 g 7.5
 c 5.0 5.6 5.4

B 5356
 t 5.6 5.6 5.7
 f 7.6
 g 7.9
 d 6.2 6.7 6.6
 var 5.8 6.0
 a 4.9 5.0
 e 6.9 7.0
 c 6.0 6.0 6.1

Friday, September 13, 1907.

H 1296 and H 1298 CPD

Three measures rejected

B 31397
 t 3.7 3.9 3.9
 var H 1296 4.3⁸⁵ 4.7 4.6 4.60
 var H 1298 5.1⁵³ 5.6 5.4 5.45
 d 4.0⁴⁵ 4.7 4.6 4.55
 t 6.2⁶⁴ 6.7 6.6 6.50
 g 6.0⁶² 6.1 6.5 measured n.p. 77-78. These measures
 e 5.2⁵⁴ 5.5 5.45 rejected on account of distance from center
 g 5.4⁵⁶ 5.8 5.7 5.45 1/2 plate being so great as to make measure of such bright
 a 3.3³⁵ 3.5 3.5 3.50 stars meas. frequently altered and
 c 3.9⁴¹ 4.1 4.1 to be measured on 2nd plate.

B 12903
 t 4.3 4.5 5.0 4.8 4.75
 var H 1296 5.4 5.6 5.5 5.55
 f 1296 6.1 6.3 6.3 6.30
 d 1296 6.8 7.0 7.0 7.00
 e 5.6 5.8 6.0 5.9 5.90
 a 3.5 3.7 3.7 3.7
 c 4.7 4.9 4.9 4.90
 g 1296 6.4 6.6 7.0 6.8 6.80
 f 1298 5.9 6.1 5.8 6.0 5.95
 var 1298 5.2 5.4 5.2 5.3 5.30
 t 1298 6.0 6.2 6.5 6.4 6.35
 g 1298 6.1 6.3 6.3 6.6 6.35
 f 1298 7.5 7.8
 d 4.6 4.8 5.1 5.0 4.95

Superseded, pages 86, 87.

Change of name made Nov. 14, 1917.

Friday, September 13, 1917.

H 1296 and H 1298 C.P.D.

These measures repeated, see page 86, 87.

inst. 700.
B33460

B 12905	B 33460
b 2.931 . 3.1	b 2.7 . 2.9
g ¹²⁹⁶ 5.759 6.0 5.45	Var 1296 2.931 . 3.1 3.1
Var. 1296 4.850 4.9 4.95	g ¹²⁹⁶ 4.850 5.3 5.2 5.5
e 4.951 4.8 5.0 4.95	a 2.022 . 2.2 2.2
r 2.224 . 2.4 2.4	d 3.224 . 3.4 2.4
f ¹²⁹⁶ 5.254 5.6 5.5 5.50	Var 1298 4.850 4.7 4.8 4.85
Var 1298 3.840 . 4.0 4.0	h ¹²⁹⁶ 5.466 5.2 5.4 5.40
g ¹²⁹⁸ 5.052 5.2 5.20	e 3.944 . 4.1 4.1
d 4.042 . 4.2 4.2	c 2.830 . 3.0 3.0
f ¹²⁹⁸ 4.142 4.4 4.35	g ¹²⁹⁸ 5.153 5.3 5.30
h ¹²⁹⁸ 6.062 6.3 6.25	h ¹²⁹⁸ 6.971 7.1 7.10
c 3.941 . 4.1 4.1	f ¹²⁹⁶ 4.042 4.1 4.15
h ¹²⁹⁸ . 4.5 7.5	h ¹²⁹⁸ 5.860 5.9 5.95
h ¹²⁹⁶ 5.860 6.1 6.05	f ¹²⁹⁸ 4.951 5.2 5.15

Imagery too poor, near edge
Rept. Nov. 14, 1917

Rounded by H.S.L.

Rept. original record
(2.3) Wrong stars probably
measuredMeasures on B33460 exceedingly difficult;
focus is poor.S_W

The differences a. b. c. d. are apparently discon-
dant on some of these plates. This is owing to the
brightness of the stars, their wide separation, and
the distance of the region from the center of the plate

A.D.H.

Saturday, November 16, 1907

3.00

H 1297 C.P.D., -53° 52' 93"

2 case	J 32811
	B 19474
a	4.2 4.4
d	5.7 5.8
b	4.6 4.7
f	6.0 6.6 6.4
c	5.9 5.1
e	5.9 6.4 6.2
g	6.5 6.6
h	6.8 7.0
i	7.1
m	7.7
o	8.4
n	7.8
h	8.9
r	9.5
l	7.2
q	9.0
s	9.8
Vm	7.4

Star a changed because
original is found to
have faint companion.Identify with extreme care,
when faint.

B 19268	B 21330
a 8.9 4.1	a 3.6 3.8
d 8.5 5.9 5.8	d 5.1 5.3
g 6.0 6.3	g 5.8 5.8 5.9
h 4.2 4.4	h 3.9 4.1
e 5.6 5.9	e 6.6 6.8
h 6.7 6.7 6.8	h 5.6 5.7
c 4.8 4.8 4.9	c 4.4 4.5
f 5.9 6.1	f 6.9 6.8 7.0
h 6.9 7.0	h 6.2 6.4
Var b.1 6.8 6.6	Var m.2
m 7.7	l 7.2
l 7.2	o 8.0
n 8.0	m 7.7
h 8.9	n 7.9
o 8.6	g 9.0
q 9.0	r 9.6

continued on A 88

3.45

M.S.H.

image too poor

Tuesday, October 22, 1907

741288 114161

Scale Measures of additional companion star ξ fB29075
f 7.8B29560
f 7.3B29478
f 7.8B33128
f 8.0

For Chart and measure of sequence, see page 66. The interval from α to the original f (now called g) was found to be too great, and this additional star was inserted in the sequence.

Thursday, October 24, 1907

R L Ophiuchi +7° 3232

3.20

B 36959
a 5.4 5.9 5.8
dx 6.6 6.9
bx 5.8 5.8 5.9
c 7.0 7.3
c 6.0 5.8 6.0
g 7.8
f 7.6
h 8.7
Var 6.4
h 8.3
l 9.2

Images elongated, measurements difficult.

B 9913
a 5.1 5.2
c 5.7 5.7 5.8
e 6.8 6.9
Var 5.5 5.7
d 6.3 6.2 6.4
b 5.6 5.3 5.6
f 7.5 7.3 7.5
h 7.9
l 9.1
h 8.6

3.37 A.D. 11 g 7.6

B 36959
Var 6.0 6.8 6.5
a 5.6 5.9
e 6.9 7.8 7.2
b 5.8 5.9
d 6.7 7.0
c 6.3 6.6
f 7.7
g 8.0
h 8.8
l 9.7
h 8.4

B 9913
a 4.9 4.9 5.3 5.2
c 5.7 5.7 5.9
e 6.8 6.8 6.9
f 5.5 5.7 5.7 5.8
g 7.4 7.0 7.4 7.3
h 7.9 7.7
d 6.4 6.9 6.8
Var 5.7 6.0
h 8.7
g 7.6
l 9.2

Marked in B27487

Thursday, November 14, 1907.

23.20

130359/41299 CPD-59° 47.1

Scale cut from AC 8858

AM 2717

measured thickness

a 7.4 7.0 6.9 6.95 21
 d 8.7 8.3 8.4 8.35 10

g 9.5
 h 7.8 7.4 7.6 7.50 11
 e 8.9 8.5 8.7 8.60 11
 c 8.1 7.7 7.6 7.65 10
 var 8.8 8.4 8.7 8.55 21

h 9.9
 l 10.1
 h 9.8
 f 9.2

±0.08
 1/2 m (2)

AM 2738

a 7.6 7.2 6.9 7.05 21
 d 8.4 8.0 8.0 8.20 20
 f 8.9
 h 7.7 7.3 7.2 7.25 10
 e 8.3 8.4 8.6 8.50 11
 c 7.9 7.5 7.6 7.55 10
 h 9.7
 g 9.2
 var 8.6
 h 9.5
 l 10.1

±0.07
 10/72
 70

g... h... a...

... f... d...

... B11196

AM 3370

measured thickness

d 8.1 7.7 7.8 7.75 10
 a 7.0 6.6 6.7 6.65 01
 c 7.6 7.2 7.4 7.30 11
 f 8.9 8.5 8.7 8.60 11
 h 7.4 7.0 6.9 6.95 01
 e 8.7 8.3 8.0 8.30 20
 var 8.9 8.5 8.0 8.40 11

h 9.8
 l 10.0
 g 8.9
 h 9.3

AM 3557

measured thickness

c 7.8 7.4 7.2 7.60 22
 a 7.6 7.2 7.0 7.10 11
 d 8.8 8.4 8.2 8.30 11
 f 7.9 7.5 7.7 7.60 11
 g 9.0
 e 9.0 8.6 8.7 8.65 01
 var 8.9
 g 9.3
 h 9.9
 h 9.5
 l 10.2

±0.11

7/6
 10/11
 70

±4
 -5
 ±0.06
 4/180
 24

83.42
 A.D.H.

Friday, November 15, 1907.

3.40

132763 H1300

Scale cut from I 32811

B 27425
 h 5.25 5.6 5.5
 e 6.4 6.6
 a 4.8 5.0
 f 6.9 7.3 7.2
 d 5.8 5.9
 c 5.6 5.9
 var 5.7 5.7 5.8
 h 8.6
 g 7.7

B 19561
 h 5.7 5.8
 d 6.5 6.7
 var 6.9 7.2
 a 5.5 5.5 5.6
 e 6.6 6.9
 c 6.0 6.3
 f 7.5
 h 8.7
 g 7.9

B 22629
 a 5.9 6.0
 d 6.3 7.6 7.3
 b 6.1 6.7 6.5
 e 7.6
 var 7.5
 c 6.6 7.2 7.0
 f 8.5
 h 9.2
 g 8.7

B 13569
 a 4.7 4.9
 c 5.8 5.3 5.9
 e 6.9 7.1
 h 5.0 5.4 5.3
 d 5.4 6.0
 var 5.6 5.8
 f 7.8
 h 8.9
 g 8.7

Imagines readily from

4.00
 A.D.H.

Wednesday, November 13, 1907.

Scale N H 1296 and H 1298, CPD -59° 4388 and -58° 4490

Chart on page 77. Scale cut from AC 8858

Am 2717

second scale third scale

a	5.3	4.7	4.9	4.90	00
c	6.8	6.4	5.8	6.10	33
g^{1296}	8.1	7.7	7.9	7.80	11
g^{1298}	6.9	6.5	6.4	6.45	10
b	5.8	5.4	5.5	5.45	01
f ¹²⁹⁶	7.5	7.1	7.0	7.05	10
h ¹²⁹⁶	8.7	8.3	8.6	8.45	12
d	6.9	6.5	6.3	6.40	11
f ¹²⁹⁸	7.6	7.2	7.2	7.20	00
h ¹²⁹⁸	8.9	8.5	8.7	8.60	11
g ¹²⁹⁸	7.8	7.4	7.6	7.50	11
Var 1298	7.9	7.5	7.5	7.50	00
h^{1298}	8.2	7.8	7.9	7.85	01
h^{1296}	8.7	8.3	8.4	8.35	10
Var 1296	7.6	7.2	7.3	7.25	01
e^{1298}	7.2	6.8	6.6	6.70	12

$\begin{matrix} +15 \\ -15 \end{matrix} \pm 0.08$
 $32) 25.1073$
 $\frac{256}{256}$

Am 3557

second scale third scale

c	6.3	5.9	5.8	5.85	10
a	4.8	4.4	4.5	4.45	01
e^{1296}	6.8	6.4	6.3	6.35	02
g^{1296}	8.0	7.6	7.7	7.65	01
h^{1296}	8.7	8.3	8.6	8.45	12
f ¹²⁹⁶	7.3	6.9	6.7	6.80	11
h	5.5	5.1	5.3	5.20	11
d	6.7	6.3	5.9	6.10	22
h ¹²⁹⁸	8.4	8.0	8.1	8.05	01
e^{1298}	7.0	6.6	6.6	6.60	00
h^{1298}	.	8.8	8.8	8.8	02
f ¹²⁹⁸	7.7	7.3	7.1	7.20	11
h^{1296}	8.6	8.2	8.2	8.20	00
g ¹²⁹⁸	7.9	7.5	7.4	7.45	10
Var ¹²⁹⁶	7.6	7.2	7.1	7.15	02
Var ¹²⁹⁸	7.8	7.4	7.2	7.20	11

± 0.07

$\begin{matrix} +13 \\ -9 \end{matrix}$
 $30) 2.2$
 $\frac{270}{270}$

A. S. H.

Wednesday, November 13, 1907, 87

Scale N H 1296 and H 1298 CPD -59° 4388 and -58° 4490

Am 2735

second scale third scale

b	5.7	5.3	5.3	5.30	00
h ¹²⁹⁶	8.6	8.2	8.4	8.30	11
Var ¹²⁹⁶	6.0	5.6	5.3	5.45	21
e^{1296}	6.7	6.3	6.0	6.45	12
h ¹²⁹⁶	8.9	8.5	8.7	8.60	11
g ¹²⁹⁶	7.9	7.5	7.5	7.50	00
a	4.7	4.3	4.4	4.35	10
d	6.1	5.7	5.8	5.75	10
Var 1298	7.4	7.0	7.4	7.20	22
h ¹²⁹⁸	9.1	8.7	9.0	8.85	12
e^{1298}	6.8	6.4	6.3	6.45	01
g ¹²⁹⁸	7.7	7.3	7.7	7.50	22
c	5.9	5.5	5.8	5.65	12
f ¹²⁹⁸	7.6	7.2	6.9	7.05	21
h ¹²⁹⁸	8.5	8.1	7.7	7.90	22
f ¹²⁹⁶	8.8	8.4	6.7	6.55	31

± 0.12

$\begin{matrix} +18 \\ -19 \end{matrix}$
 $32) 37.116$
 $\frac{352}{24}$
 $\frac{256}{256}$

Am 3370

second scale third scale

a	4.3	3.9	4.2	4.05	12
c	5.9	5.5	5.5	5.50	00
e^{1296}	6.5	6.1	5.9	6.00	11
g ¹²⁹⁶	7.9	7.5	7.7	7.60	11
Var 1296	5.9	5.5	5.6	5.55	10
h^{1296}	8.8	8.4	8.7	8.55	21
f ¹²⁹⁶	6.8	6.4	6.2	6.30	11
h ¹²⁹⁶	8.6	8.2	8.1	8.15	01
b	5.1	4.7	4.7	4.70	00
d	6.0	5.6	5.6	5.60	00
f ¹²⁹⁸	7.8	6.6	6.6	6.60	00
h ¹²⁹⁸	8.6	8.2	8.6	8.40	22
Var 1298	7.8	7.4	7.5	7.45	01
h ¹²⁹⁸	9.0	8.6	9.0	8.80	22
f ¹²⁹⁸	6.7	6.3	6.1	6.20	11
g ¹²⁹⁸	7.8	7.1	7.0	7.05	10

± 0.03

$\begin{matrix} +13 \\ -13 \end{matrix}$
 $32) 260.0081$
 $\frac{256}{256}$

* Right measure of L. wrong
 star apparently burned. Nov. 14, 1907

A. S. H.

3.45

Saturday, November 16, 1907

H 1297 b. P. 28 - 53° 5293

continued from p. 79.

S 18675

a 4.1 4.3

d 5.7 6.2 6.0

g 6.7 7.0

b 4.6 5.7

f 6.2 6.7 6.6

h 7.0 7.1

e 5.9 6.3 6.2

c 5.2 5.3

Var. 7.4

m 8.4

q 9.3

l 7.8

k 7.5

n 7.7

r 10.0

p 8.9

o 9.0

4.00

M.E.H.

Monday, November 18, 1907

H 1297 12 - 53° 5293 continued

A 2566

k 7.3

t 7.7

g 6.5

u 9.7

l 8.5

near edge

A 9755

e 9.3

q 8.4

t 9.6

k 8.8

u 10.1

Imag. elongated
 imag. of each
 star. The measures
 are of the smaller,
 which are elongated
 in a direction east
 and west
 Near centre of plate

A 1844

r 7.7

t 9.2

g 6.8

e 8.6

u 9.5

Imag. elongated and
 poor. Not comparable
 with scale. Near edge

B 16382 Sep. 29 m

r 8.8

t 9.7

g 8.3

s 9.5

u 10.2

Imag. good; center of
 plate

22.10

Monday, March 9, 1908

Variables 294 and 309 (Dm-64393)

B 24845 ^{revised}

a 2.9 3.1

g 4.3 6.5 6.6 6.55 1.0

294 var 4.3 6.5 6.6 6.55 1.0

b 2.9 3.1

d 4.3 4.5

l g 6.8 7.0 7.3 7.15 ± 1

var 309 3.0 3.2

c 3.5 3.7

f 5.8 6.0 5.5 5.75

k 7.7

m 9.8

n 8.4

o 9.2

p 10.0

3 images from

This plate rejected.

See from.

g 4.3 6.5 6.6 6.55 1.0

b 2.9 3.1

d 4.3 4.5

l g 6.8 7.0 7.3 7.15 ± 1

var 309 3.0 3.2

c 3.5 3.7

f 5.8 6.0 5.5 5.75

k 7.7

m 9.8

n 8.4

o 9.2

p 10.0

q 11.0

r 12.0

s 13.0

t 14.0

u 15.0

v 16.0

w 17.0

x 18.0

y 19.0

z 20.0

aa 21.0

ab 22.0

ac 23.0

ad 24.0

ae 25.0

af 26.0

ag 27.0

ah 28.0

ai 29.0

aj 30.0

ak 31.0

al 32.0

am 33.0

an 34.0

ao 35.0

ap 36.0

aq 37.0

ar 38.0

as 39.0

at 40.0

au 41.0

av 42.0

aw 43.0

ax 44.0

ay 45.0

az 46.0

ba 47.0

bb 48.0

bc 49.0

bd 50.0

be 51.0

bf 52.0

bg 53.0

bh 54.0

bi 55.0

bj 56.0

bk 57.0

bl 58.0

bm 59.0

bn 60.0

bo 61.0

bp 62.0

bq 63.0

br 64.0

bs 65.0

bt 66.0

bu 67.0

bv 68.0

bw 69.0

bx 70.0

by 71.0

bz 72.0

ca 73.0

cb 74.0

cc 75.0

cd 76.0

ce 77.0

cf 78.0

cg 79.0

ch 80.0

ci 81.0

cj 82.0

ck 83.0

cl 84.0

cm 85.0

cn 86.0

co 87.0

cp 88.0

cq 89.0

cr 90.0

cs 91.0

ct 92.0

cu 93.0

cv 94.0

cw 95.0

cx 96.0

cy 97.0

cz 98.0

da 99.0

db 100.0

dc 101.0

dd 102.0

de 103.0

df 104.0

dg 105.0

dh 106.0

di 107.0

dj 108.0

dk 109.0

dl 110.0

dm 111.0

dn 112.0

do 113.0

dp 114.0

dq 115.0

dr 116.0

ds 117.0

dt 118.0

du 119.0

dv 120.0

dw 121.0

dx 122.0

dy 123.0

dz 124.0

ea 125.0

eb 126.0

ec 127.0

ed 128.0

ee 129.0

ef 130.0

eg 131.0

eh 132.0

ei 133.0

ej 134.0

ek 135.0

el 136.0

em 137.0

en 138.0

eo 139.0

ep 140.0

eq 141.0

er 142.0

es 143.0

et 144.0

eu 145.0

ev 146.0

ew 147.0

ex 148.0

ey 149.0

ez 150.0

fa 151.0

fb 152.0

fc 153.0

fd 154.0

fe 155.0

ff 156.0

fg 157.0

fh 158.0

fi 159.0

fj 160.0

fk 161.0

fl 162.0

fm 163.0

fn 164.0

fo 165.0

fp 166.0

fq 167.0

fr 168.0

fs 169.0

ft 170.0

fu 171.0

fv 172.0

fw 173.0

fx 174.0

fy 175.0

fz 176.0

ga 177.0

gb 178.0

gc 179.0

gd 180.0

ge 181.0

gf 182.0

gg 183.0

gh 184.0

gi 185.0

gj 186.0

gk 187.0

gl 188.0

gm 189.0

gn 190.0

go 191.0

gp 192.0

gq 193.0

gr 194.0

gs 195.0

gt 196.0

gu 197.0

gv 198.0

gw 199.0

gx 200.0

gy 201.0

gz 202.0

ha 203.0

hb 204.0

hc 205.0

hd 206.0

he 207.0

hf 208.0

hg 209.0

hh 210.0

hi 211.0

hj 212.0

hk 213.0

hl 214.0

hm 215.0

hn 216.0

ho 217.0

hp 218.0

hq 219.0

hr 220.0

hs 221.0

ht 222.0

hu 223.0

hv 224.0

hw 225.0

hx 226.0

hy 227.0

hz 228.0

ia 229.0

ib 230.0

ic 231.0

id 232.0

ie 233.0

if 234.0

ig 235.0

ih 236.0

ii 237.0

ij 238.0

ik 239.0

il 240.0

im 241.0

in 242.0

io 243.0

ip 244.0

iq 245.0

ir 246.0

is 247.0

it 248.0

iu 249.0

iv 250.0

iw 251.0

ix 252.0

iy 253.0

iz 254.0

ja 255.0

jb 256.0

jc 257.0

jd 258.0

je 259.0

jf 260.0

jg 261.0

jh 262.0

ji 263.0

jj 264.0

jk 265.0

jl 266.0

jm 267.0

jn 268.0

jo 269.0

jp 270.0

jq 271.0

jr 272.0

js 273.0

jt 274.0

ju 275.0

jv 276.0

jw 277.0

jx 278.0

jy 279.0

jz 280.0

ka 281.0

kb 282.0

kc 283.0

kd 284.0

ke 285.0

kf 286.0

kg 287.0

kh 288.0

ki 289.0

kj 290.0

kk 291.0

kl 292.0

km 293.0

kn 294.0

ko 295.0

kp 296.0

Tuesday March 10, 1908

21.48

Variables 309 and 294

am 2114					ac 6332						
2nd		3rd			2nd		3rd				
a	6.7	6.3	6.6	6.45	12	a	7.8	7.4	7.40	00	
b	6.9	6.5	6.8	6.65	12	b	7.9	7.5	7.6	7.55	10
c	7.3	6.9	7.2	7.05	12	c	8.4	8.0	7.9	7.95	01
d	8.0	7.6	7.7	7.65	01	d	8.8	8.4	8.4	8.40	00
e	8.4	8.0	8.0	8.00	00	e	9.0	8.6	8.9	8.75	21
f	8.7	8.3	8.4	8.35	10	f	9.0	9.0	9.0	a	
g	9.0	8.6	8.7	8.65	01	g	9.0	9.0	9.0	11	
h	9.0	9.0				h	9.1	9.1	9.1	a	
i	9.7	9.7				i	9.6	9.6	9.6	a	
j	10.0	10.0				j	9.9	9.9	9.9		
k	10.2	10.2				k	10.1	10.1	10.1		
l	8.8	8.4	8.6	8.50	11	l	10.3	10.3	10.3		
m	7.2	6.8	6.9	6.85	01	m	n.a.				

M.E.H.

Tuesday March 10, 1908

Variables 309 and 294

ac 243					h				
a	7.3	6.9	6.9	6.90	00	l	10.1	10.1	
b	7.6	7.2	7.3	7.25	01				
c	7.9	7.5	7.9	7.70	22				
d	8.4	8.0	8.5	8.25	23	I 18385 re-measured			
e	8.9	8.5	8.8	8.65	12	a	4.7	4.9	4.90 00
f		9.0	9.0			b	5.0	5.2	5.3 5.25 01
244		9.2	9.2			c	5.7	5.9	5.8 5.85 10
309	7.9	7.5	7.5	7.50	00	d	6.0	6.2	6.1 6.15 01
g		9.2	9.2			e	6.3	6.5	6.6 6.55 10
h		9.6	9.6			f	6.6	6.8	6.9 6.85 01
i		9.9	9.9			g	6.9	7.1	7.0 7.05 10
l		10.2	10.2			244	6.9	7.1	7.0 7.05 10
m						309	5.6	5.8	5.7 5.75 01

all images on plate difficult

ac 6340				h			
2nd	3rd	4th	5th	2nd	3rd	4th	5th
a	7.4	7.0	6.8	6.90	11	a	8.9
b	7.7	7.3	7.0	7.15	12	b	9.2
c	8.0	7.6	7.6	7.60	00	c	n.a.
d	8.6	8.2	8.0	8.10	11		
e	8.9	8.5	8.3	8.40	11		
f	8.7	8.7					
g	8.9	8.9					
h	8.7	8.7					
i	8.8	8.8					
j	8.8	8.8					
k	8.8	8.8					
l	8.8	8.8					
m	8.8	8.8					

22.10

M.E.H.

Tuesday, March 17, 1908

Variables 294 and 309

These variables frequently come so near the edge of the plates that the comparison stars originally selected are unsuitable. Minoron star γ , essential for comparison with variable 294, is suspected of variability. The change, if any, is slight. They are seen only on L and B plates, and may be wholly due to the situation on different plates. As the star frequently, on these plates, appears to be as bright as f , it seems to be necessary to drop it. The original sequence is to be repeated through f , and different stars have been selected from g onward.

B23359				
per. mean 6.40 f	6.1	6.3	6.2	6.25 1.0
g	6.6	6.8	6.8	6.80 0.0
h	7.0	7.2	7.2	7.20 0.0
k			7.4	
per. mean 7.9 l			7.7	
m			8.0	
per. mean 8.7 n			8.7	

B29700 (see opposite page)				
per 294	6.0	6.2	6.4	6.30 1.1
per 309	5.2	5.4	5.5	5.45 0.1

Tuesday, March 17, 1908

Variables 294 and 309

I 18385				
per. mean 6.85 f	6.5	6.7	6.7	6.70 0.0
g	6.8	7.0	7.0	7.00 0.0
h	6.9	7.1	7.2	7.15 1.0
k			7.7	
per. mean 7.9 l			7.8	
m			8.2	
per. mean 8.8 n			8.8	
ADM 2114 ^{scale 2} ^{scale 3} ^{20 not used}				
f	8.6	8.1	8.2	8.15 1.0
g	8.8	8.4	8.5	8.45 1.0
h			8.9	
k			9.3	
AC 6332 ^{20 not used}				
f	8.9	8.5	8.7	8.60 1.1
g			9.2	
h			9.4	
k			9.7	

I 18385 repeated				
per. mean 6.85 f	6.6	6.8	6.7	6.75 0.1
g	6.8	6.9	7.0	6.95 1.0
h	6.9	7.1	7.2	7.15 1.0
k			7.7	
per. mean 7.9 l			7.8	
m			8.3	
per. mean 8.9 n			8.9	
AC 6340 ^{20 not used}				
f	8.9	8.5	8.7	8.60 1.1
g			9.0	
h			9.3	
k			9.7	

B29700				
f	5.8	6.0	5.9	5.95 0.1
g	6.0	6.2	6.2	6.20 0.0
h	6.6	6.8	6.8	6.80 0.0
k	6.9	7.1	7.2	7.15 1.0
l			7.4	
m			7.7	
n			8.0	
o			8.7	
p			9.7	
B29700 cont.				
a	4.8	5.0	5.0	5.00 0.0
b	5.0	5.2	5.1	5.15 0.1
c	5.3	5.5	5.6	5.45 1.0
d	5.7	5.9	5.9	5.90 0.0
e	5.8	6.0	5.9	5.95 0.5

Wednesday Oct 28, 1908

Variable 404 (Nova)

Marked on P 29314

B 28858

a	2.9	3.1
d	3.9	4.1
g	5.0 5.2 5.4	5.30
m	6.7 6.9 6.8	6.85
p	7.0	3.2
f	5.4 5.6 5.7	5.65
h	6.3	
p	8.7	2.9
e	4.6 5.0 5.0	5.00
k	5.2 6.0 6.0	6.00
n	6.9 7.1 7.1	7.10
l	6.4 6.6 6.7	6.65
o	7.6	
p	8.20	
t	9.7	
u	10.1	
h	5.5 5.7 5.7	5.70
g	8.6	
s	8.9	
r	3.7	

B 28858 B C 4230

l	3.7 3.3	3.3
e	6.2 5.8 5.8	5.80
a	3.0 2.6	2.6
g	6.8 6.4 6.6	6.50
c	4.9 4.5 4.7	4.60
k	7.6 7.2 7.4	7.30
d	5.3 4.9 5.0	4.95
h	7.3 6.9 6.8	6.85
l	8.0 7.6 7.6	7.60
m	8.5 8.1 8.3	8.20
f	6.7 6.3 6.4	6.35
n	8.9 8.5 8.8	8.65
p	9.8 9.4	9.4
o	9.4 9.0	9.0
g	10.1 9.7	9.7

B 28858

Thursday Oct 29, 1908

Variable 404 (Nova)

B 15482 Scale I 32911

B 31267

a	2.2	2.4	g	4.4 4.6 4.6	4.60
f	3.9	4.1	h	5.9 6.1 5.9	6.00
k	5.2 5.4 5.2	5.30	n	6.7 7.0 7.1	7.05
o	7.8		a	2.2	2.4
g	4.0	4.2	d	3.9	3.1
d	3.1	3.3	h	5.8 6.0 5.8	5.90
e	3.7	3.9	m	6.7 6.9 7.0	6.95
h	4.6 4.8 4.7	4.75	h	5.1 5.3 5.4	5.35
l	5.8 6.0 5.8	5.90	e	3.6	3.8
m	df.		f	8.8	4.0
b	t p		b	t p	
c	t p		c	t p	
m	6.5 6.7 6.7	6.70	o	7.7	
r	9.1		r	8.8	
p	8.6		u	9.7	
r	9.5		g	8.5	
u	10.1		p	8.3	
g	8.8		r	8.6	
t	10.0		t	9.0	
w			w	10.0	

Images from, near edge.

Measured with
preceding edge at top.
Images elongated.

A. D. H. res.

Thursday, Oct. 29, 1908.

Variable 404 (Nova)

B 33232
measured with preceding
edge at top.

a 1.7 2.1
g 3.8 4.0
h 5.7 5.9 5.4 5.80
d 2.8 3.0
f 3.9 4.1
k 4.7 4.9 5.2 5.05
m 5.8 6.0 5.9 5.95
h 4.0 4.2 4.7 4.35
n 6.5 6.7 6.5 6.60
b tp
c tp
e 3.7 3.9
o 7.1 7.3 7.2 7.30
g 8.5
p 7.8
r 8.9
u 10.1
x 8.7
t 9.7
w 8.5

A. D. H.

Friday Oct. 30, 1908

Copied

Variable 404 (Nova) continued

Scale as 8858

Am 1798 (8^h-30)

Measures at east side of plate

a 3.2 2.8
d 5.6 5.2 5.0 5.10
g 6.9 6.5 6.7 6.60
h 5.4 5.0 5.3 5.15
h 8.3 7.9 7.9 7.90
e 6.8 6.4 6.3 6.35
h 7.7 7.3 7.4 7.35
c 5.5 5.1 5.0 5.05
f 7.3 6.9 6.6 6.75
l 8.8 8.4 8.7 8.55
m 9.0 8.6 8.9 8.75
o 9.7
p 10.2
n 9.5

Measures very diff
near edgeAm 3223 (10^h-30)

Measures at west side

b 5.9 5.5 5.5 5.50
g 7.8 7.4 7.8 7.60
l 9.0 8.6 9.0 8.80
c 6.3 5.9 5.7 5.80
f 7.9 7.5 7.7 7.60
e 8.9 8.5 8.7 8.60
a 5.0 4.6 4.7 4.65
e 7.7 7.3 7.2 7.25
h 8.4 8.0 7.8 7.90
d 6.9 6.5 6.4 6.45
m 9.6
o 10.3
n 10.0

Measures diff. near edge

Am 5454 (9^h-15)

Measures at south side

a 3.9 3.5 3.5
c 5.1 4.7 4.8 4.75
g 7.5 7.1 7.0 7.05
l 8.9 8.9
e 6.8 6.4 6.6 6.50
h 5.0 4.6 4.2 4.40
f 7.2 6.8 6.7 6.75
h 8.9 8.5 8.4 8.45
h 8.0 7.6 7.1 7.35
d 5.8 5.4 5.0 5.20
m 9.7
n 10.0
o 10.3

Measures extremely
diff. near edge

M. E. H.

Tuesday, December 19, 1911.

Scale M Variables #1289 and #1292 (Nos. 11 and 64)

T'Plate AK 352

Mean	S. Polar Seg		Remeasured.	Remeasured.
	Scale 1	Scale 2	Scale 1	Scale 2
3.3 ~~2.1~~	a	3.1 3.3	t.f.	3.3 a.
4.5 a.	f	4.3 ^{4.5}	t.f.	4.5 a.
5.30 a.	c	5.2 5.4	5.2	5.30 1
5.90 a.	d	5.8 6.0	5.8	5.90 1
6.60 ~~5.5~~	e	def.	t.f.	.
7.2 ~~5.5~~	f	6.6 6.8	6.7	6.75 0.1
7.2 a.	g	7.0 7.2	def.	7.2 a.
7.17 1.00	h	t.f.	7.1	7.1
7.95 .01	k	def.	t.f.	8.0 ⁴⁵ for.
8.20 ¹⁷ 1.1	l	8.1	8.3	8.1
8.50 1.1	m	8.6	8.6	8.3
8.67 1.1	n	8.6	8.8	8.6
8.90 0.00	o	8.9	8.9	8.9
9.10 1.0	p	9.2	9.1	9.0
9.30 0.1	q	9.3	9.2	9.4
9.53 1.00	r	9.6	9.5	9.5
9.53 1.00	s	9.6	9.5	9.5
9.60 1.0	t	9.7	9.6	9.5
9.90 1.0	u	10.0	9.9	9.8
10.00 .00	v	n.s.	10.0	10.0

m.02.

Tuesday, December 19, 1911.

Scale M Variables #1289 and #1292 (Nos. 11 and 64)

T'Plate AK 352

	H 1289		Remeasured.	Mean	Magn.
	Scale 1	Scale 2	Scale 1	Scale 2	from
Drake. Right	t.f.	7.1	7.2	7.15	10 ⁴⁵ 7.98
a	t.f.	7.7	7.5	7.60	1.1 8.37
b	t.f.	7.7	7.8	7.75	1.0 8.58
c	t.f.	8.0	7.9	7.95	0.1 8.69
d	t.f.	8.2	8.1	8.15	0.1 8.72
e	t.f.	8.6	8.3	8.45	2.1 9.24
f	t.f.	8.3	8.3	8.30	0.0 9.12
g	t.f.	8.6	8.5	8.55	0.1 9.34
h	t.f.	8.8	8.7	8.75	0.1 9.59
k	t.f.	9.0	9.0	9.00	0.0 9.70
l	t.f.	9.5	9.6	9.55	1.0 10.54
m	t.f.	8.2	8.3	8.25	0.1 9.23
var.	t.f.	7.2	7.4	7.30	1.1 8.11
	t.f.	8.2	8.3	8.25	0.1 9.03
	t.f.	8.9	9.0	8.95	1.0 9.83
	t.f.	9.0	9.0	9.00	0.0 9.89
	t.f.	9.7	9.7	9.70	0.0 10.70
	t.f.	7.9	7.8	7.85	1.0 8.57
var.	t.f.	8.1	8.2	8.15	1.0 8.92

Images for Sept. 1292 were poor.

On the print from charts of the Milky Way made by Agnes Bailey in Capricorn, with the 1-inch Cooke lens, having exposures of from 12^h to 20 hours, as faint as the p.e. 3 star of #1292 are seen. Probably 15thth stars are shown as faint as the p.e. 3 star of #1292 are seen. Probably 15thth stars are shown as faint as the p.e. 3 star of #1292 are seen. Probably 15thth stars are shown as faint as the p.e. 3 star of #1292 are seen.

Wednesday, Dec. 20, 1911.

Thursday, Dec. 21, 1911

Scale M Variables H 1289 and H 1292

A L 356 416 Carr T¹

S Polar Seg.		Re-measured		Mean	
Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2
a	4.5 4.7	4.9 4.80 11	4.7 4.8	4.80	02, 00
b	4.9 5.1	5.1 5.0 00	5.2 5.4	5.25	15, 15
c	5.7 5.9	5.8 5.85 10	5.9 6.1	5.95	10, 10
d	6.1 6.3	6.5 6.40 11	6.5 6.7	6.52	12, 13
e	6.0 6.2	6.0 6.10 12	6.7 6.9	6.45	35, 35
f	6.8 7.0	6.9 6.95 01	7.3	7.12	17, 18
g	7.6	7.6	7.60	7.60	02, 00
h	8.0	7.9	7.95	7.95	01
i	8.7	8.6	8.65	8.65	10
j	8.7	9.0	8.85	8.85	12
m	9.4	9.4	9.40	9.40	00
n	9.6	9.7	9.65	9.65	01
o	10.0	10.1	10.05	10.05	01
p	ms				
q	ms	ms			

There are large differences between the two sets of measures. These are partly systematic and probably they depend in part on the quality of the images, which, though fine, was difficult to compare with scale.

The second set of measures on these two prisms was made on the day following the first set.

Interrupted by darkness at end of first set of measures.

A.D.V.

Wednesday, December 20, 1911.

Thursday, December 21, 1911.

Variables H 1289 and H 1292 (nos. 11 and 64)

T¹ plate A L 356 416

H 1289		Re-measured		Mean		Magn. from lun	
Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2
a	7.3	a is double. reject	7.4	Reject	7.35	1.0	9.75
b	8.1		8.5	8.30	2.2	8.47	
c	8.3		8.6	8.45	1.2	8.57	
d	9.0		8.7	8.85	2.1	8.90	
e	9.0		9.2	9.10	1.1	9.10	
f	9.5		9.3	9.40	1.1	9.34	
g	very difficult 8.6 9.7		9.3 9.3	9.43	3.1	9.37	
h	9.7		9.4 9.4	9.50	2.1	9.42	
i	9.9		9.7	9.80	1.1	9.67	
j	10.0		10.0	10.00	0.0	9.82	
m							
Var.	8.6		8.4	8.50	1.1	8.62	

See Remark on Page 102

H 1292		Re-measured		Mean		Magn. from lun	
Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2
a	7.7		8.0	7.85	1.2	8.13	
a'	8.6		8.7	8.65	0.1	8.74	
b	9.1		9.2	9.15	1.0	9.15	
c	9.8		9.7	9.75	0.1	9.63	
d	9.9		10.0	9.95	1.0	9.77	
e	ms						
Var.	8.6		8.8	8.70	1.1	8.78	

Interrupted by darkness at end of first set of measures.

Friday
Thursday December 21, 1911 -

Scale M. Variables H 1289 and H 1292

A L 336 - Class T'

South Polar Seq

Remeasured.

Mean

	Scale 1	Scale 2	Scale 1	Scale 2	Scale 1	Scale 2	Mean
a	4.7	4.8	4.8	4.8	4.80 00	4.749 4.9	4.85 05, 05
b	4.9	5.1	4.9	5.0	5.00 11	4.951 4.9	5.02 00, 10
c	5.7	5.8	5.8	5.8	5.80 11	5.759 5.7	5.85 05, 05
d	6.4	6.5	6.5	6.5	6.50 01	6.468 6.4	6.65 10, 10
e	6.6	6.7	6.7	6.7	6.70 22	6.664 6.6	6.82 07, 08
f	7.0	7.2	7.2	7.2	7.20 00	7.072 7.2	7.32 00, 00
g	7.5	7.6	7.6	7.6	7.60 01	7.5	7.55 01
h	7.9	8.0	8.0	8.0	8.00 00	7.9	8.15 32
i	8.3	8.4	8.4	8.4	8.40 00	8.3	8.70 00
j	8.7	8.8	8.8	8.8	8.80 00	8.7	8.95 11
k	9.1	9.2	9.2	9.2	9.20 00	9.1	9.45 10
l	9.5	9.6	9.6	9.6	9.60 00	9.5	9.85 22
m	9.9	10.0	10.0	10.0	10.00 00	9.9	10.20 00
n	10.3	10.4	10.4	10.4	10.40 00	10.3	10.70 00
o	10.7	10.8	10.8	10.8	10.80 00	10.7	11.10 00
p	11.1	11.2	11.2	11.2	11.20 00	11.1	11.50 00
q	11.5	11.6	11.6	11.6	11.60 00	11.5	11.90 00
r	11.9	12.0	12.0	12.0	12.00 00	11.9	12.30 00
s	12.3	12.4	12.4	12.4	12.40 00	12.3	12.70 00
t	12.7	12.8	12.8	12.8	12.80 00	12.7	13.10 00
u	13.1	13.2	13.2	13.2	13.20 00	13.1	13.50 00
v	13.5	13.6	13.6	13.6	13.60 00	13.5	13.90 00

Images are very difficult to compare with the scale

A. D. H.

Friday, December 22, 1911.

Scale M Variables H 1289 and H 1292

A L 336 Class T'

H 1289		Remeasured		Mean H ₀	Magn.	
Scale 1	Scale 2	Scale 1	Scale 2		from lens	
a	7.7	a is double. reject	7.8	7.75	10	7.98 reject
b	8.0		8.4	8.20	22	8.36
c	8.4		8.9	8.65	23	8.75
d	8.8		8.9	8.85	01	8.94
e	9.3		9.3	9.30	00	9.38
f	referred		referred?	.	.	
g	9.4		9.4	9.40	00	9.48
h	9.4		9.6	9.50	11	9.59
i	9.5		9.6	9.55	10	9.65
j	9.7		9.9	9.80	11	9.92
m	9.3		.	.	.	
n	9.3		9.5	9.40	11	9.48

H 1292					
a	8.2	~~8.2~~	8.20	00	8.37
a'	8.6	8.8	8.70	11	8.80
b	8.9	9.1	9.00	11	9.09
c	9.7	9.6	9.65	10	9.75
d	9.8	9.8	9.80	00	9.92
e	9.8	9.8 m.s.	.	.	
Var	9.0	8.8	8.90	11	8.99

Friday December 22, 1911.

Scale N

2:45

Variables H 1289 and H 1292

	Am 6239 H 1289	Am 5525 H 1289	Am 5606 H 1289	Am 5532 H 1289
Sum	0.00 a 6.5 0.25 b 6.1 0.75 c 7.4 1.28 d 7.7 1.76 e 8.0 1.76 f 8.3 1.78 g 8.3 1.80 h 8.2 1.92 i 8.3 2.44 j 8.6 2.74 k 9.0 3.22 m 9.4 nan	5.5 2 5.9 3 6.0 3 6.8 5 7.6 8 7.6 8 7.2 4 7.6 4 7.7 1 7.7 3 8.6 3 8.8 5 9.3 5 8.0	6.9 4 7.3 5 7.8 5 8.3 4 8.7 0 8.7 0 8.7 4 8.3 6 8.9 4 9.3 4 9.7 4 9.7 4 8.0	7.1 2 7.3 4 7.7 6 8.3 4 8.7 2 8.9 2 9.1 4 9.1 3 9.6 6 10.2 6 8.0

Sum		H 1292	H 1292	H 1292	H 1292
0.00	a	6.7	5.9	7.3	7.2
			1	5	8
0.55	a'	7.5 ⁸	6.0	7.8	8.0
					53 25 12
1.23	b	7.8 ³	7.0 ¹⁰	8.6 ⁸	8.6
					6 68 43 11
1.93	c	8.6 ⁸	8.1 ¹¹	8.9 ³	8.6
					6 70 14 42
2.28	d	8.8 ²	8.7 ⁶	9.2 ³	9.2
					3 35 2 2 1 1
2.90	e	9.5 ⁷	9.3 ⁶	9.9 ⁷	9.5
					6 65 10 10
Var.		8.1	8.0	8.6	9.3

and measure
difficult

3109

Thursday, June 27, 1912

Scale M

041318

H 3044

For chart, see page 120

	Mean	SO1	SO2	B 24120.	B 36831	Mean	Pearson's	Companion's
				Mean			Scale 2.	Revised.
25 a	a 23 75			31.35	3.3 2.8 80	3.2 a	8.6	8.6
29 a	b 29 29			30.32	3.2 3.0 32	3.2 a	9.0	9.2
36 a	c 29 29			39.41	4.1 3.8 40	4.0 a	9.2	9.3
31 a	d 34 38			33.35	3.5 3.0 32	3.2 a	9.6	9.9
39 a	e 29 31			40.42	4.7 4.4 49	4.1 a	superficial	
44 a	f 37 39			48.50	4.8 5.0 50	4.1 a	10.0	10.1
46 a	g 42 44			49.49	5.0 5.1 51	4.1 a	n.s.	n.s.
5.38 11 10	h 51 51	5.5 5.3		55.09	5.6 5.6 56	4.7 4.9	4.8	4.5 10
5.85 21 1	i 58 60	5.7 5.7	5.7 5.7	59.00	5.9 5.1 5.0	5.0	5.05 10	5.05 10
5.80 11 1	j 57 59	5.7 5.7	5.7 5.7	64.66	6.7 6.6 6.0	5.9	5.95 0.1	
6.75 0.21	k 60 61	6.4 6.3	6.5 6.7	68.61	6.8 6.1 6.1	5.9	6.00 1.1	
6.65 0.1	l 64 66	6.7 6.7	6.6 6.8	68.61	6.8 6.1 6.1	5.8	5.95 8.2	
6.15 1.0	m 65 67	6.8 6.8	6.9 7.1	70.10	6.2 6.6 6.8	6.7	6.8 6.66	31.01
7.00 0.0	n 68 70	7.0 7.0	7.0 7.0	74.14	7.4 7.4 7.4	7.3	7.3 0.1	
7.5 a	o 75	7.5	7.5	78.18	7.8 7.8 7.8	7.3	7.3 a	
8.0 a	p 80	8.0	8.0	83.83	8.3 8.3 8.3	7.8	7.8 a	
8.2 a	q 82	8.2	8.2	89.89	8.9 8.9 8.9	8.5	8.5 a	
8.8 a	r 88	8.8	8.8	97.97	9.7 9.7 9.7	9.1	9.1 a	
8.9 a	s 89	8.9	8.9	100.100	10.0 10.0 10.0	9.6	9.6 a	
9.2 a	t 92	9.2	9.2	n.s.	n.s.	9.9	9.9 a	
9.6 a	u 96	9.6	9.6	n.s.	n.s.	10.1	10.1 a	
10.0 a	v 100	10.0	10.0	92.92	9.2 9.2 9.2	8.9	8.9 a	

Images very
much elongated
and very poor.

Project star brighter than h, on B 29/20 + B 3684

Thursday June 27, 1912.

Scale m

041318 H 3044

Defocused

	de alt. mean p. 110	Prim. Comparisons scale a p. 110	Mean.	P110	Mean Scale P110 (+4.83)	Mean P.C.	Mag.
a	186 18 127 27 186 18 scales.	74	74	1.8 a	B	B	740 760
b	20 22	78	79	2.2 a	B	B	785 813
c	20 22	82	85	2.2 a	B	B	835 866
d	28 30	81	83	3.0 a	B	B	820 850
e	23 25	89	87	2.5 a	B	B	880 918
f	28 30	dup.	.	3.0 a	29	295	.
g	31 33	94	97	3.3 a	32	325	955 (977)
h	37 39	94	97	3.9 a	34	365	970 (1015)
k	38 40	94	98	4.0 a	41	405	980 (1027)
k'	46 48	98	100	4.8 a	45	465	990 (1038)
l	49 51	ms.	F	5.00 11	495	498	.
m	55 57	466	570 00	580	575		
n	58 60	468	595 01	600	598		
r	59 60	477	628 21 20	645	636		
fr	65 67		675 10	680	678	1179	
g	69 71		705 10	71	708	1207	
n	77		77 a	78	775	1258	
n	75		75 a	80	775	1275	
t	84		84 a	87	855	1370	
u	87		87 a	88	875	1395	
w	88		88 a	88	880	1404	
x	90		90 a	90	900	1452	
y	95		95 a	96	955	1496	
u	80		80 a	84	820	1535	
var.	41	71	71	71	71	1575	

mer.

Images very poor.

Riplet maps brighter than L

 α
 β
 γ
 δ
 α 66
 β 68
 γ 77
 δ 74

Thursday June 27, 1912.

Scale m

041318 H 3044

	Am 323	am 3287	am 578.	Am 135.
Mean	Scale	Scale	Scale	Scale
5.15 0.1	a 5.0 5.2 5.1	5.5 5.7 5.6 5.6 5.0 4.7 4.9	5.0 4.95 1.0 4.7 4.9 4.8	4.85 1.0 5.28 2.31
5.80 1.1	b 5.7 5.9 5.7	5.9 6.1 5.9 6.0 1.1 5.7 5.9	5.8 0.1 4.8 4.9 5.6	5.4
5.95 0.1	c 5.8 6.0 5.9	6.5 6.7 6.7 6.9 0.0 5.8 6.0	5.8 5.8 1.1 5.7 5.9 5.9	5.80 1.1 5.8 2.10.1
6.05 1.0	d 5.9 6.1 6.0	6.1 6.3 6.7 6.5 2.2 6.0 6.2	6.0 6.10 1.1 5.4 5.7 5.8	5.9
6.25 1.0	e 6.1 6.3 6.2	6.7 6.9 6.9 6.9 0.0 6.6 6.8	6.6 6.70 1.1 5.8 6.0 5.9	5.95 0.1
6.95 1.2	f 6.9 7.1 6.8	6.7 6.9 7.0 6.9 1.0 6.8 7.0	6.8 6.90 1.1 6.7 6.9 7.0	6.95 1.0
7.6 a	g 7.7 7.6	7.7 7.6 a 7.7	7.7 7.7 a 7.7	7.6 7.6 a
7.4 a	h 7.4	7.6 7.6 a	7.8 7.8 a 7.7	7.5 7.5 a
7.8 a	k 7.8	7.9 7.9 a	8.4 8.4 a	8.0 8.0 a
8.1 a	k' 8.1	8.2 8.2 a	8.6 8.6 a	8.1 8.1 a
8.8 a	l 8.8	8.3 8.3 a	9.0 9.0 a	8.7 8.7 a
9.4 a	m 9.4	8.5 8.5 a	9.6 9.6 a	9.1 9.1 a
9.1 a	n 9.1	8.6 8.6 a	9.7 9.7 a	9.4 9.4 a
9.9 a	r 9.9	9.1 9.1 a	10.0 10.0 a	10.0 10.0 a
fr	ms.	9.4 9.4 a	ms.	ms.
g		9.6 9.6 a		
n		9.8 9.8 a		
u		10.1 10.1 a		
t				
u				
w				
x				
y				
u				
80 a	var.	8.3	9.7 9.7 a	ms.

mer.

Images good.

Images very poor.

Images much elongated

Monday, July 8, 1912

Scale M

041318 H 3044

Pneumograph of B. platia with additional
pneumatic components
front plate and

	1312727	Prim. Comp.	1336831	Prim. Comp.
a	B	74	80p	87
b	B	79	p	94
c	B	85	p	97
d	B	83	p	98
e	B	87	p	96
f	27 29	94	p	n.s.
g	30 32	97	p	
h	32 34	97	48 50	
k	39 41	99	49 51 5.0 5.05	
l	43 45	100	50 52 5.2 5.20	
l	47 49 50 495	F	58 60 5.9 5.95	
m	56 58 58 580	n.s.	5.9 61 5.9 6.00	
n	58 60 60 600		6.0 62 6.0 6.10	
o	61 63 66 645		67 69 6.7 6.80	
p	66 68 68 680		73	
q	71		77	
r	78		81	
s	80		86	
t	84		90	
u	87		99	
u	88		96	
v	88		100	
x	90		100	
y	96		n.s.	
z		66.00		78
β		68		79
γ		77		80

Tuesday, July 16, 1912

041318 H 3044

Schmidt

	1336831/107	P.C.	Mean sta	Mean P.C.
a	2.8	8.60	B	8.65 05,05 773
b	3.2	9.10	B	9.25 15,15 845
c	4.0	9.25	B	9.48 23,22 872
d	3.2	9.65	B	9.72 07,08 902
e	4.1	.	B	
f	4.1	10.05	B	10.05? 0. (9.4) f
g	4.1	.	B	
h	4.85		4.92 07,08	
k	5.05		5.05 00,10	
k	5.05		5.05 07,08	
l	6.05.95		6.05 00,10	
m	6.00		6.02 07,08	
n	5.95		6.02 07,08	
o	6.68		6.74 06,06	
p	6.75		7.02 27,28	
q	7.3		7.50 20,20	
r	7.8		7.95 15,15	
s	8.5		8.55 05,05	
s	8.9		8.95 05,05	
t	9.1		9.00 10,10	
u	9.6		9.60 00,00	
tr	10.0		10.00 00,00	
z	9.9		9.95 05,05	
z	10.1		10.1? 0. (10.1)	
α				7.8 6.69
β				7.9 6.82
γ				8.7 7.78

Tuesday, July 16, 1912

Scale M 041318 H 3044. Bright Companion Stars
See also page 109

Mean 135 p.109	AM 135	AM 323	p.109	Mean
360 .Q	α 3.4 3.6	3.6 360	38 40	4.00
350 .Q	β 3.2 3.4	3.6 350	38 40	4.00
410 .Q	γ 3.9 4.1	4.1 410	4.9 5.1	5.05
455 3.10 4.85	α 4.1 4.3	4.2 425	5.5 5.2	5.20
532 4.10 5.20	β 5.2 5.4	5.3	5.7 5.9	5.8
565 5.15 5.80	γ 5.4 5.6	5.50	5.8 6.0	6.0
578 02.03 5.80	δ 5.7 5.9	5.6	5.75	5.9
605 10.10 5.75	ε 5.9 6.1	6.2	6.15	6.05
690 05.05 6.45	ζ 6.1 6.3	6.6	6.15	6.2
760 00.00 7.4	η 6.7 6.9	7.0	6.85	6.7
	θ 7.6	7.6	7.6	7.6

AM 1578

430 .A	δ 4.2 4.4	4.2 430
435 .A	β 4.3 4.5	4.2 435
505 .A	γ 4.8 5.0	5.1
495 00.00 4.95	α 4.7 4.9	5.0
580 00.00 5.80	β 5.7 5.9	5.7
572 02.03 5.90	γ 5.9 6.1	5.8
615 05.05 6.10	δ 6.1 6.3	6.3
675 05.05 6.70	ε 6.6 6.8	6.8
700 10.10 6.90	ζ 7.1	7.1
780 10.10 7.7	η 7.9	7.9

AM 3207

α, β, γ 1.5 p.m.

Stars extremely poor

041318 H 3044

Mean Resid.	Differences	Mean Resid.	Sum	Magn.	Mean
3.94 37 03 33.	α	10 00 45	0.2	08 02 07.	0.92
4.00 40 00	β	60 105 70	1.8	18 27 08.	0.94
3.95 45 05 40.3	γ	45 13 10	16	29 03 26.	0.16
4.00 48 00 55.7	δ	77 70 85 48	70	07 00 15 22	0.00
5.04	ε	33 10 12 42	24	09 14 12 18	0.70
5.74	ζ	13 12 23 00	12	01 00 11 12	0.94
5.99	η	27 28 60 48	41	14 13 19 07	1.06
6.11	θ	85 57 25 12	45	40 12 20 33	1.47
6.52	ι	70 65 80 35	62	08 03 18 27	1.92
6.76	κ	10 20 10 00	05	05 15 15 05	2.54
7.59	λ	50	45		2.49
7.58	μ	60	45		2.94
8.02	ν		45		3.16
8.25	ξ		45		3.61
8.70	ο		05		4.06
9.15	π		30		4.11
9.20	ρ		20		4.59
9.75	σ		20		4.89
10.25	τ		20		5.19
10.40	υ		30		5.59
10.50	φ				5.69

On B 12707 the prism comp. are fairly comparable with star images, especially for stars fainter than α .

On B 26831 the prism comp. are much more accurate than the star images and are not comparable. The faintest images, however, resemble the p.c. more than the brighter star images.

Thursday, August 15, 1912

Charts of Comparison Stars for New
Variable

222924 Orig. No. 77 T-V 2984

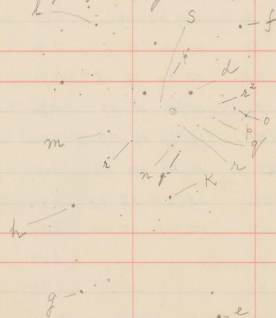
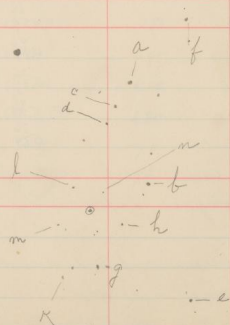


Diagram I 12890
Film side up

k, g, n, p, q added Nov. 1, 1912
Matched on Plate B 6061

025338, Orig. No. 66 N.V. 2920



On I 16963

Saturday, October 19, 1912

025338 N.V. 2920
~~16963~~

Comparison of Star Images with Photometric Com-
parisons. Magnitude of p.c. assumed by add-
ding 5.0 to star magnitudes.

$$\alpha = 9.72 \quad \beta = 10.7 \quad \gamma = 10.8 \quad \delta = 11.8 \quad \zeta = 12.0$$

I 16963		
with at top		South at top
e	9.5?	9.55?
f	9.6?	9.75?
g	10.4	10.50?
h	10.7 def.	11.15 Reg. Def.
k	11.5	11.55
l	12.0	12.00
m	12.2?	12.15?
n	-	-

Comparisons rather difficult.

Thursday, October 24, 1912

3 30

Var. 041318 Distances of stars from center

B36831

 α 20 *Procyon* β 38 γ 23 α 32 3.5 δ 31 3.5 ϵ 20 2.5 ζ 41 4.5 η 29 3.5 θ 33 3.5 ι 38 4.5 κ 27 3.0 λ 35 4.0 μ 27 3.0

Var 34 3.5

Others about dist. of Var.

B 12727

 α 27 λ 17 3.0 β 21 κ 20 3.5 γ 36 ℓ 10 2.0 $\alpha\delta$ 17 1.5 m 12 2.0 ϵ 22 3.5 η 18 3.0 ζ 5 8 1.5 α dist 20 3.5 δ 20 3.5 ℓ 6 1.5 f 11 1.5-2.0 g 14 2.5Impairability of P.C.
Scale changed - $H=5$; $5=7$

Dist	Imp.	Comp.	Ref. pt.
0	2a	2	1
10			
20	2	3	2.3
30	2	4	3.3
40	4	5	4.7
50	5	6	5.3
60	8	7	7.7

Dist	Comp.	Ref. pt.
0	2	1
20	4	3
30	2	1
40	2	1
50	2	5
60	9	9

The above estimates are made in the quadrant of the variable.

The opposite quadrant shows p.c. nearly unobscured toward a dist. of 60.

Thursday, Oct. 24, 1912

3 30

Var 025338 Distances from center

I 16963

 α 42 *Procyon* β 33 γ 14 δ 30 ϵ 37 ζ 70 η 53 α 47 6 δ 40 5.5 ϵ 41 3.5 δ 42 5.5

I 2643

 α 20 β 26 γ 18 δ 20 ϵ 17 ζ 52 η 27 α 22 4.5 δ 20 4.5 ϵ 20 4.5 ϵ 33 4 f 51 6.5 g 34 4 h 37 5.5 k 34 4 l 40 5.5 m 37 5.5

Comparability of P.C.

Dist. Comp.

0	4	3	3.5	1
20	3	4	3.5	2
30	3	5	3.5	1
40	4	5	6.0	2
50	7	6	6.5	3
60	8	8	8.6	3

0	3	3	3
20	5	4	4.5
30	5	5	4.5
40	5	7	6.0
50	8	8	8.0
60	10	10	10.0

The original estimates on pages 116, 117 and 118 were made by sensory inspection and included only bright stars. The observations on these plates are more careful and include stars of various magnitudes, but only in the same quadrant as the variable.

Thursday, October 24, 1912

Var 025338 Cont.

I 7882

Dist
On paper

α	23	f	32	80
β	13	g	20	75
γ	23	h	23	75
δ	27	k	19	75
ϵ	40	l	20	75
ζ	57	m	19	75
η	27	n	22	75
a	27		80	
b	24		75	
c	23		75	
d	24		75	
e	25		75	

Adopt 75 for all stars fainter than α

Comp. of P.C.

Dist

Orig.

0	7	7	70	4=5
20	8	7	75	5=7
30	8	8	80	-
40	10	10	-	-
50				
60				

I 16963

Dist

c	41
d	42

Comp. of p.c.

Orig.

O. 117

0	2	3	2.5	1	3.5
20	3	3	3.0	2	3.5
30	3	3	3.0	1	3.5
40	5	5	5.0	2	6.0
50	5	7	6.0	3	6.5
60	7	7	7.0	3	8.0

I 32353

α	44	c	34	2
β	19	f	45	4
γ	17	g	35	3
δ	33	h	38	1
ϵ	43	k	30	1
ζ	64	l	35	2
η	44	m	34	2
a	40			
b	38			
c	39			
d	40			

Orig.

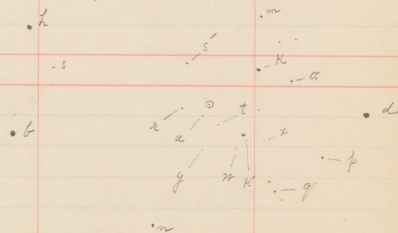
0	-	-	-	-	-
20	2	1	2	2.7	2 = 2
30	2	3	3	1.3	3 = 3
40	2	3	3	2.7	3 = 3
50	5	5	5	5.0	4 = 5
60	8	7	7	7.3	5 = 7

On Thursday, Oct. 24, 1912, the ^{scale for} grading of comparability of prismatic comparisons was changed so that 1=1, 2=2, 3=3, 4=5, 5=7. The new estimates on pages 116-119 were made on the new scale. The accordance with the original estimates is, in most cases, good. The exceptions are, B 12727 (see note page 116) for distances greater than 40 mm, and I 16963. On the latter plate another set of estimates was made, and the three are placed side by side on page 119. The second and third are fairly accordant, no differences exceeding a unit. Apparently, therefore, the first comparison was in error.

Tuesday, October 29, 1912

Schems of New Variables

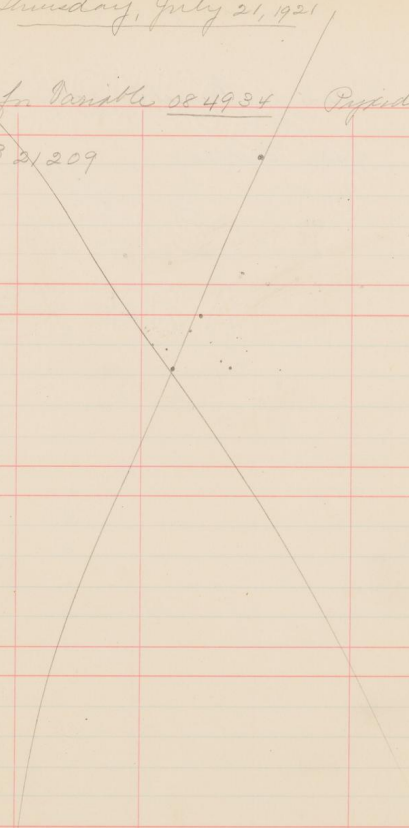
041318, 76V3044
 from B 24146



Thursday, July 21, 1921

Chart for Variable 084934 Pegidus

From B 21209



Thursday, July 21, 1921

Chart for Variable 084934 - Pyxidis

From B21209

